LAX MAR 2017

PROJECT ID: 1650-06-73
WITH: N/A

COUNTY: GRANT

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (includes Erosion Control Plans)
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 = 464





DESIGN DESIGNATION USH 61

A.A.D.T.	2017	=	4910
A.A.D.T.	2037	=	5790
D.H.V.	2037	=	760
D.D.		=	60/40
T. %		=	15.9
DESIGN SPEED		=	55 MPH
ESALS		=	2,233,800

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LANCASTER - BOSCOBEL

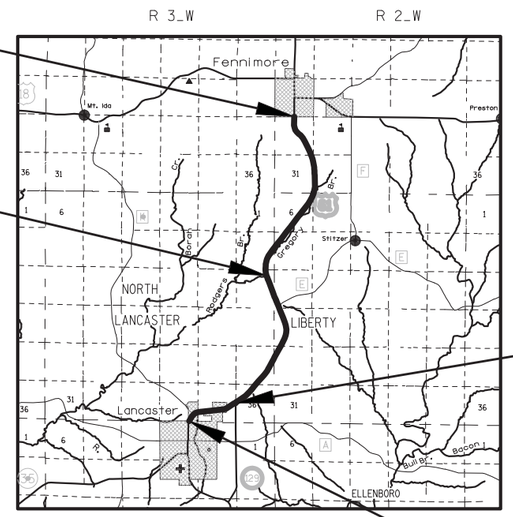
CITY LIMITS ST TO FENNIMORE CL
USH 61
GRANT COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1650-06-73	WISC 2017093	1

STATE PROJECT NUMBER
1650-06-73

END PROJECT
STA 2594+24.00

EXCEPTION TO NET CENTERLINE LENGTH
STA 2350+63 - STA 2350+95
STRUCTURE B-22-702


R 3 W
R 2 W
T 6 N
T 5 N
T 4 N
Fennimore
Mt. Ida
Preston
Stitzer
NORTH LANCASTER
LIBERTY
Lancaster
ELLENBORO
Boscobel
Grant
Bur Oak
Bacon
Big Bur Oak
Bur Oak
Bur Oak

2

STANDARD ABBREVIATIONS:

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AECPRC	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
AECPS	APRON ENDWALLS FOR CULVERT PIPE STEEL
AEW	APRON ENDWALL
ASPH	ASPHALTIC
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BF	BACK FACE
BM	BENCH MARK
BR	BRIDGE
CE	COMMERCIAL ENTRANCE
CL OR C/L OR ℄	CENTER LINE
CONC	CONCRETE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CR	CREEK
CY	CUBIC YARD
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DG	DITCH GRADE
DWY	DRIVEWAY
X	EAST GRID COORDINATE
EAT	ENERGY ABSORBING TERMINAL
EOR	END POINT OF RADIUS
EL	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FC	FACE OF CURB
FF	FACE TO FACE
FERT	FERTILIZE
FE	FIELD ENTRANCE
FL	FLOW LINE
MCE	MARKERS CULVERT END
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
HDPE	HIGH-DENSITY POLYETHYLENE
HYD	HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE ON PIN
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MH	MANHOLE
MOR	MID POINT OF RADIUS
NC	NORMAL CROWN
NO	NUMBER
OBLIT	OBLITERATE
PAVT	PAVEMENT
PE	PRIVATE ENTRANCE
PVC	POLYVINYL CHLORIDE
PVRC	POINT OF VERTICAL REVERSE CURVE
QOR	QUARTER POINT OF RADIUS
R	RADIUS
RCBC	REINFORCED CONCRETE BOX CULVERT
REQ'D	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
R	RIVER
RDWY	ROADWAY
R/L OR ℞	REFERENCE LINE
SALV	SALVAGED
SAN	SANITARY SEWER
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SE	SUPERELEVATION RATE
TC	TOP OF CURB
T OR TN	TOWN
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE
Y	NORTH GRID COORDINATE
YD	YARD

DESIGN CONTACT:

SEH INC.
329 JAY STREET, SUITE 301
LA CROSSE, WI 54601
TELEPHONE: 608.498.4947
ATTENTION: JEREMY TOMESH
EMAIL: JTOMESH@SEHINC.COM

DNR AREA LIAISON:

WI DEPT OF NATURAL RESOURCES
SOUTH CENTRAL REGION HEADQUARTERS
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
TELEPHONE: 608.275.3308
ATTENTION: ANDY BARTA
EMAIL: ANDY.BARTA@WISCONSIN.GOV

WISDOT CONTACT:

WISCONSIN DEPT OF TRANSPORATION
SOUTHWEST REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
TELEPHONE: 608.789.6317
ATTENTION: TIM MAEDKE
EMAIL: TIMOTHY.MAEDKE@DOT.WI.GOV

UTILITY CONTACT LIST:

ALLIANT ENERGY (WP&L) - ELECTRICITY
761 ENTERPRISE DR
PLATTEVILLE, WI 53818
ATTENTION: DENNIS STEPHENSON
TELEPHONE: 608.326.9485
EMAIL: DENNISSTEPHENSON@ALLIANTENERGY.COM

CHARTER COMMUNICATIONS
2701 DANIELS ST
MADISON, WI 53718
ATTENTION: STEVE HEGGE
TELEPHONE: 608.576.2613
EMAIL: STEVE.HEGGE@CHARTER.COM

CITY OF LANCASTER - WATER & SEWER
206 S MADISON ST
LANCASTER, WI 53813
ATTENTION: JOHN HAUTH
TELEPHONE: 608.723.7543
EMAIL: JOHNH@LANCASTERWISCONSIN.COM

CITY OF FENNIMORE - ELECTRICITY
860 LINCOLN AVE
FENNIMORE, WI 53809
ATTENTION: AL ZOROMSKI
TELEPHONE: 608.822.3185
EMAIL: UTILITY@FENNIMORE.COM

CITY OF FENNIMORE - SANITARY SEWER
860 LINCOLN AVE
FENNIMORE, WI 53809
ATTENTION: DON CURTISI
TELEPHONE: 608.822.6718
EMAIL: WWTP@FENNIMORE.COM

CITY OF FENNIMORE - WATER
860 LINCOLN AVE
FENNIMORE, WI 53809
ATTENTION: DENNIS BIDDICK
TELEPHONE: 608.822.6501
EMAIL: DPW@FENNIMORE.COM

FARMERS TELEPHONE COMPANY/GRANTLAND TELECOM LLC
4001 FELLAND RD, SUITE 108
MADISON, WI 53534
ATTENTION: SHERA PURDY
TELEPHONE: 608.438.4139
EMAIL: SPURDY@MI-TECH.US

NORTHERN NATURAL GAS COMPANY - GAS
5557 COUNTY RD D
PLATTEVILLE, WI 53818
ATTENTION: LEONARD KLAAS
TELEPHONE: 402.530.2806
EMAIL: LEONARD.KLAAS@NNGCO.COM

WE ENERGIES - GAS/PETROLEUM
N3025 14TH AVE
MONROE, WI 53566
ATTENTION: ADAM MARING
TELEPHONE: 608.328.5679
EMAIL: ADAM.MARING@WE-ENERGIES.COM

WISCONSIN INDEPENDENT NETWORK
3843 CEDAR CREEK RD
SLINGER, WI 53086
ATTENTION: DICK HAMMETTER
TELEPHONE: 715.838.4406
EMAIL: HAMMETTER@WINS.NET

GENERAL NOTES:

1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
2. 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.
3. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
4. WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
5. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS WITH THE ENGINEER.
6. CONCRETE COLLAR REQUIRED AT JOINTS BETWEEN EXISTING AND NEW CULVERT PIPE.
7. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
8. WETLANDS, WATERWAYS, ARCHAEOLOGICAL SITES AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
9. BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
10. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
11. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
12. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.
13. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
14. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
15. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED AND SEEDED.
16. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.
17. STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
18. A CONVERSION FACTOR OF 2.10 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE, 3/4-INCH.
19. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE, 1 1/4-INCH.
19. A CONVERSION FACTOR OF 1.9 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR SELECT CRUSHED MATERIAL.
20. A CONVERSION FACTOR OF 112 LBS/IN/SY IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.
21. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.
22. ALL TYPES OF ASPHALTIC PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

ORDER OF SHEETS - SECTION 2:

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
BORING LOG
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
STORM SEWER DETAILS
PERMANENT SIGNING
TRAFFIC CONTROL DETAILS
ALIGNMENT DETAILS
CONTROL POINTS

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

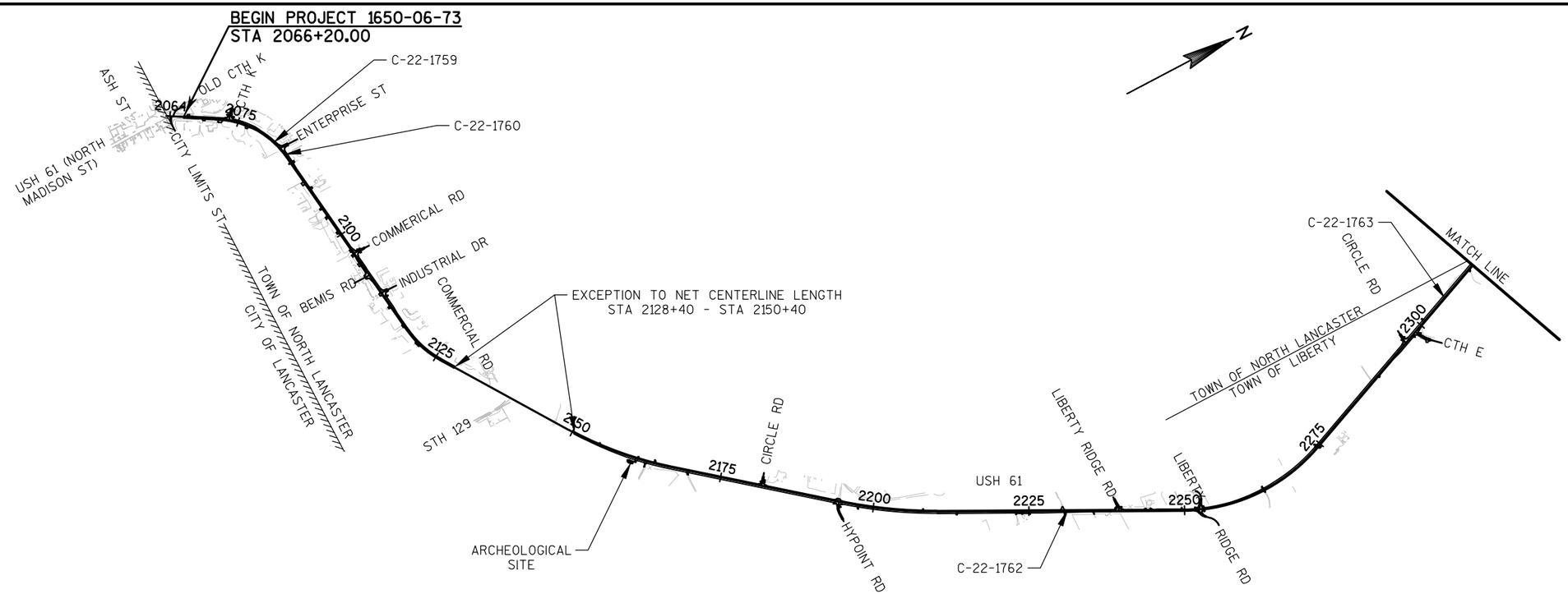
DIGGERS HOTLINE

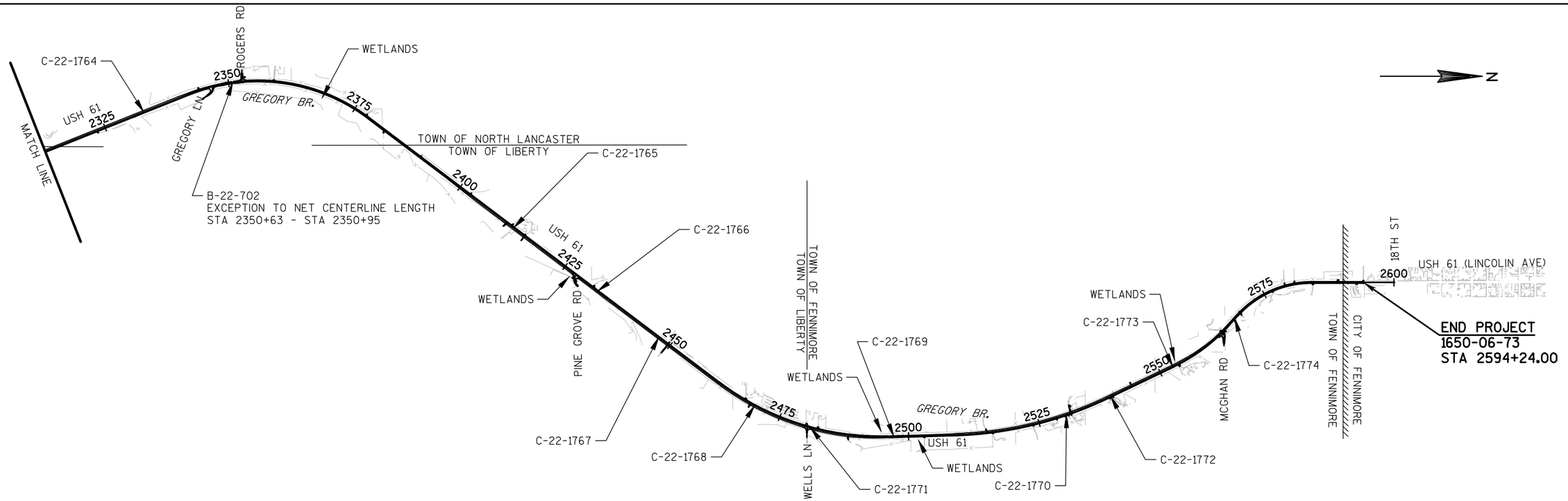
Dial 811 or (800)242-8511

www.DiggersHotline.com

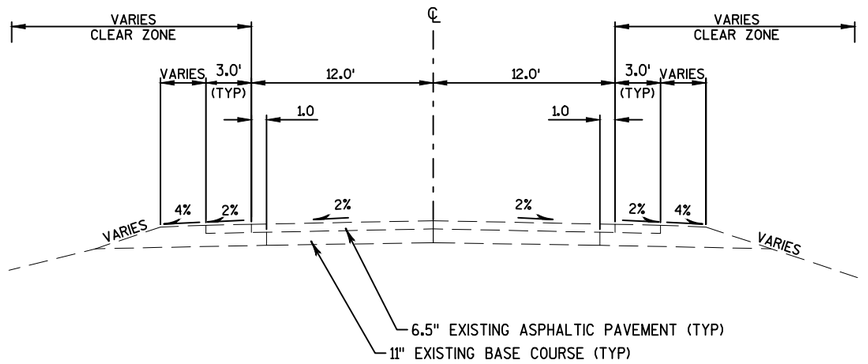
NOTE: WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

TOTAL PAVEMENT DEPTH (INCH)	LAYER DEPTH (INCH)	HMA PAVEMENT ITEM
5.0	UPPER: 2.0	4 MT 58-28 S
	LOWER: 3.0	3 MT 58-28 S
3.0	SINGLE LAYER	4 MT 58-28 S



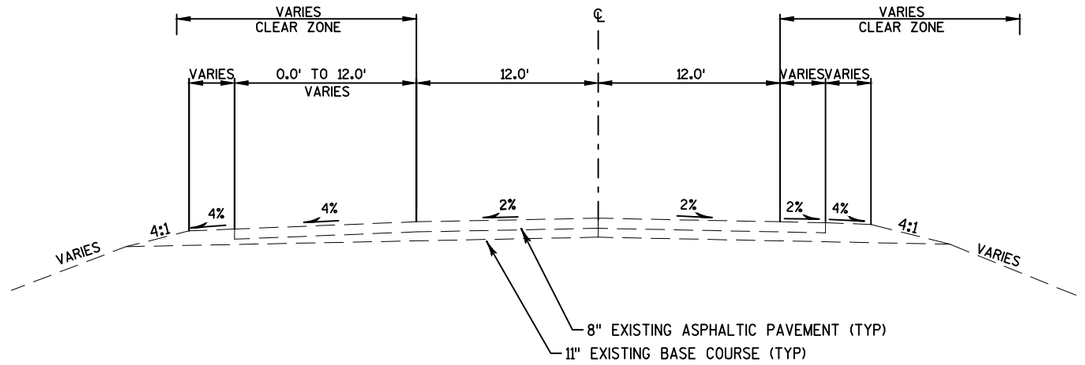


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PROJECT OVERVIEW	SHEET 3	E



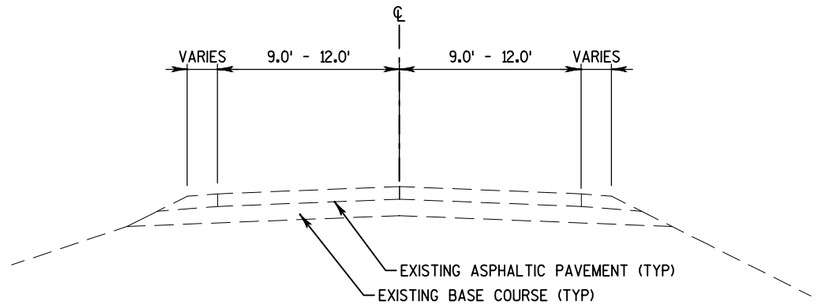
TYPICAL EXISTING SECTION

STA 2066+20 TO STA 2127+25
STA 2150+80 TO STA 2285+00
STA 2342+75 TO STA 2594+24



TYPICAL EXISTING SECTION

STA 2285+00 TO STA 2342+75



TYPICAL EXISTING SECTION - SIDE ROADS

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : 020300_TS (TYPICAL SECTIONS).DWG PLOT DATE : 10/25/2016 2:10 PM PLOT BY : SEH INC LAYOUT NAME : 020301_TS PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

NOTES:

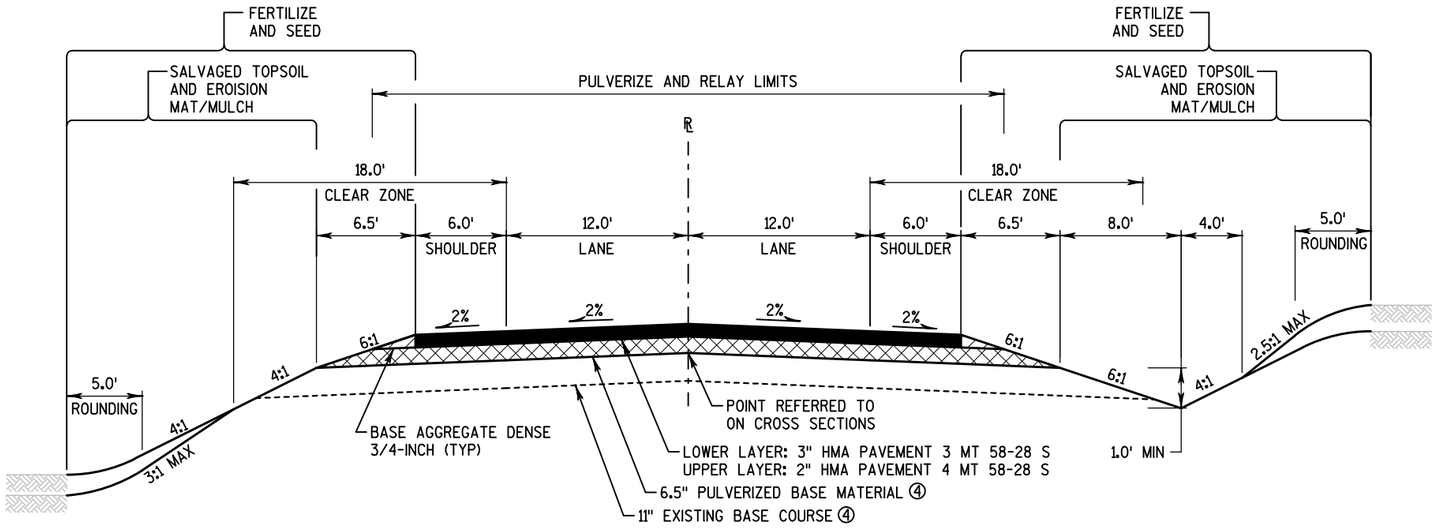
① WIDENING EXISTING 12' CLIMBING LANE (SOUTHBOUND) STA 2286+62 TO 2347+22

② MIRROR FOR NORTHBOUND LOCATIONS

③ MIRROR FOR SOUTHBOUND LOCATIONS

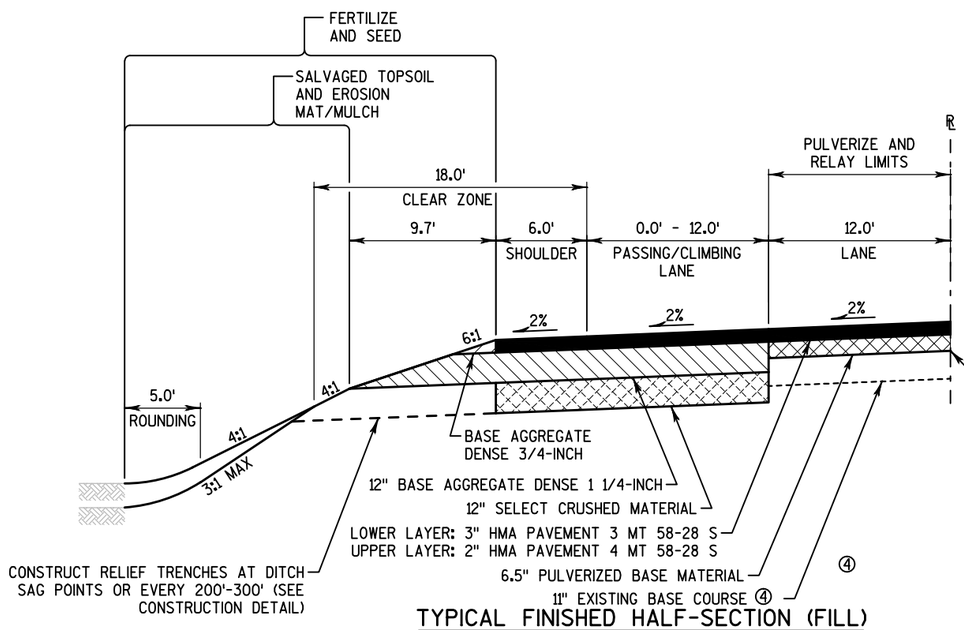
④ REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION

⑤ REFER TO SUPERELEVATION DATA TABLE FOR SUPERELEVATION INFORMATION



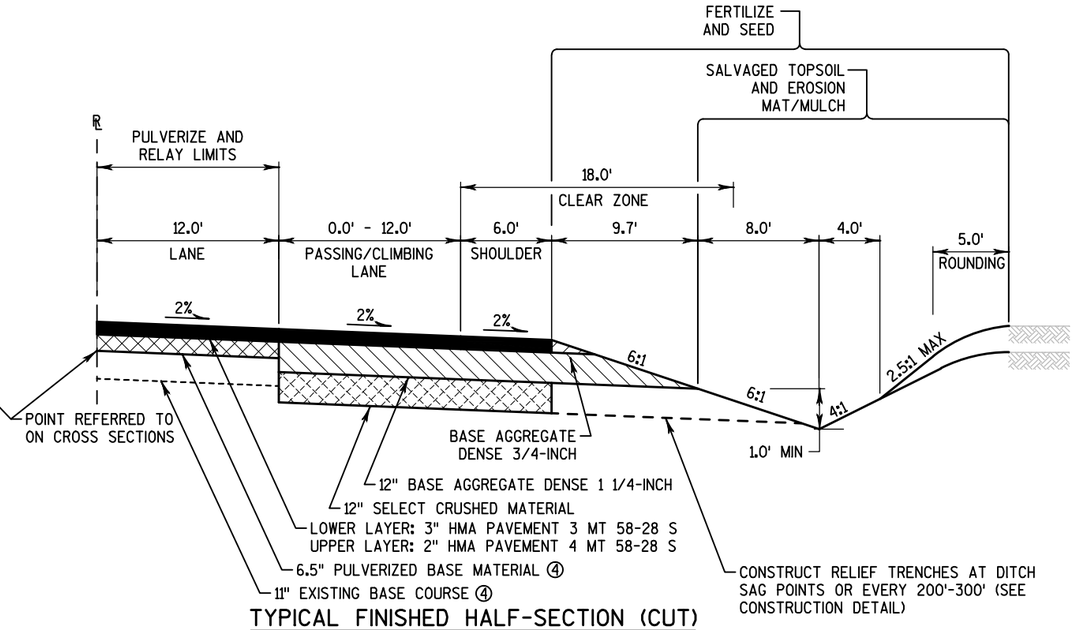
TYPICAL FINISHED SECTION

STA 2066+20 TO 2126+45
STA 2234+00 TO 2258+00
STA 2347+22 TO 2396+50
STA 2496+00 TO 2504+50
STA 2562+50 TO 2594+24



TYPICAL FINISHED HALF-SECTION (FILL)

STA 2152+43 TO 2234+00 ②
STA 2258+00 TO 2347+22 ①
STA 2396+50 TO 2496+00 ②
STA 2504+50 TO 2562+50

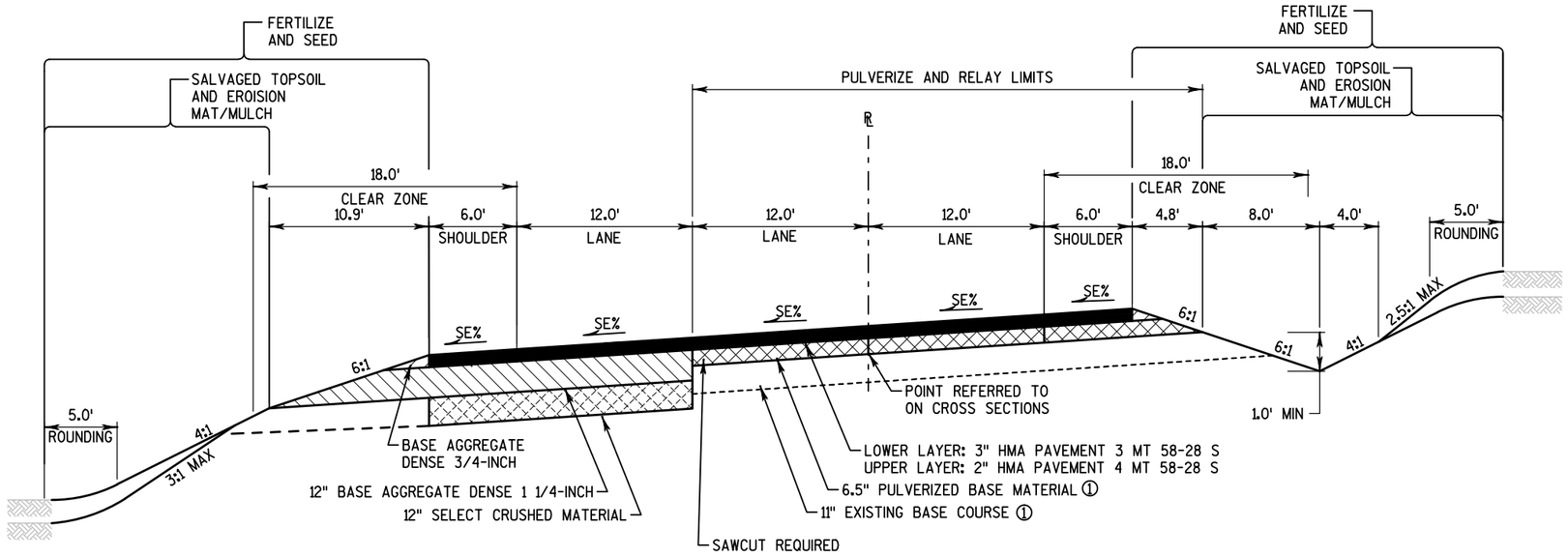


TYPICAL FINISHED HALF-SECTION (CUT)

STA 2152+43 TO 2234+00
STA 2258+00 TO 2347+22 ③
STA 2396+50 TO 2496+00
STA 2504+50 TO 2562+50 ③

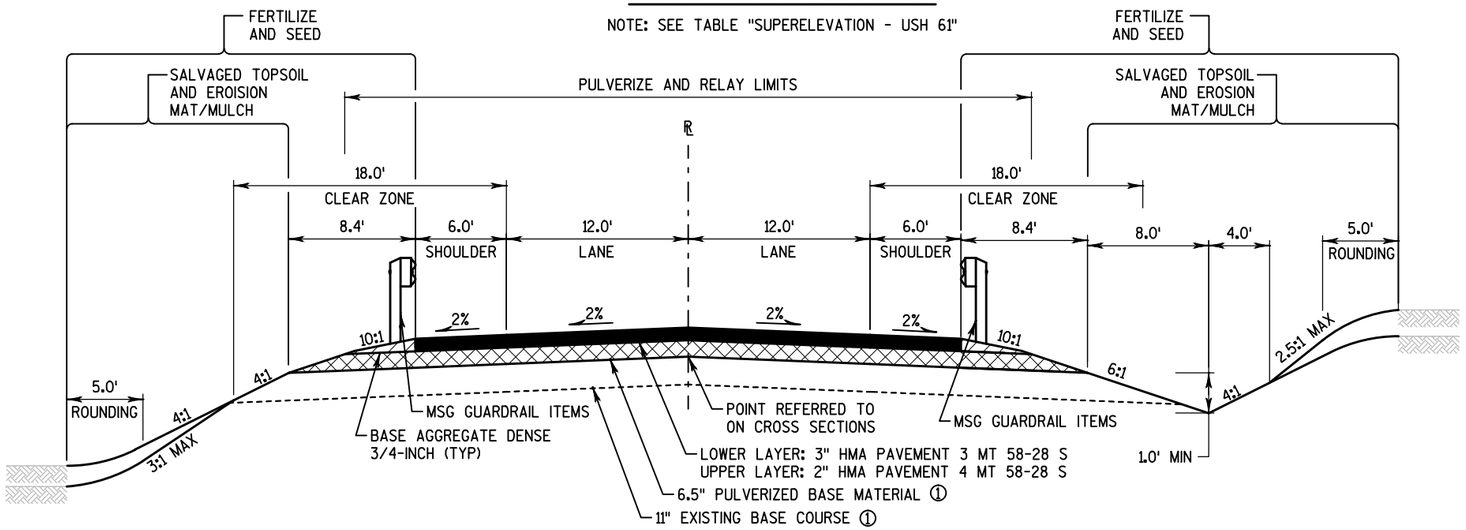
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 5	E

NOTES:
① REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION



TYPICAL FINISHED SECTION

NOTE: SEE TABLE "SUPERELEVATION - USH 61"



TYPICAL FINISHED SECTION

STA 2349+04 TO 2350+64, RT
STA 2349+71 TO 2350+64, LT
STA 2350+95 TO 2351+87, RT
STA 2350+95 TO 2351+87, LT

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : 020300_TS (TYPICAL SECTIONS).DWG | PLOT DATE : 10/25/2016 2:10 PM | PLOT BY : SEH INC | LAYOUT NAME : 020303_TS | PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

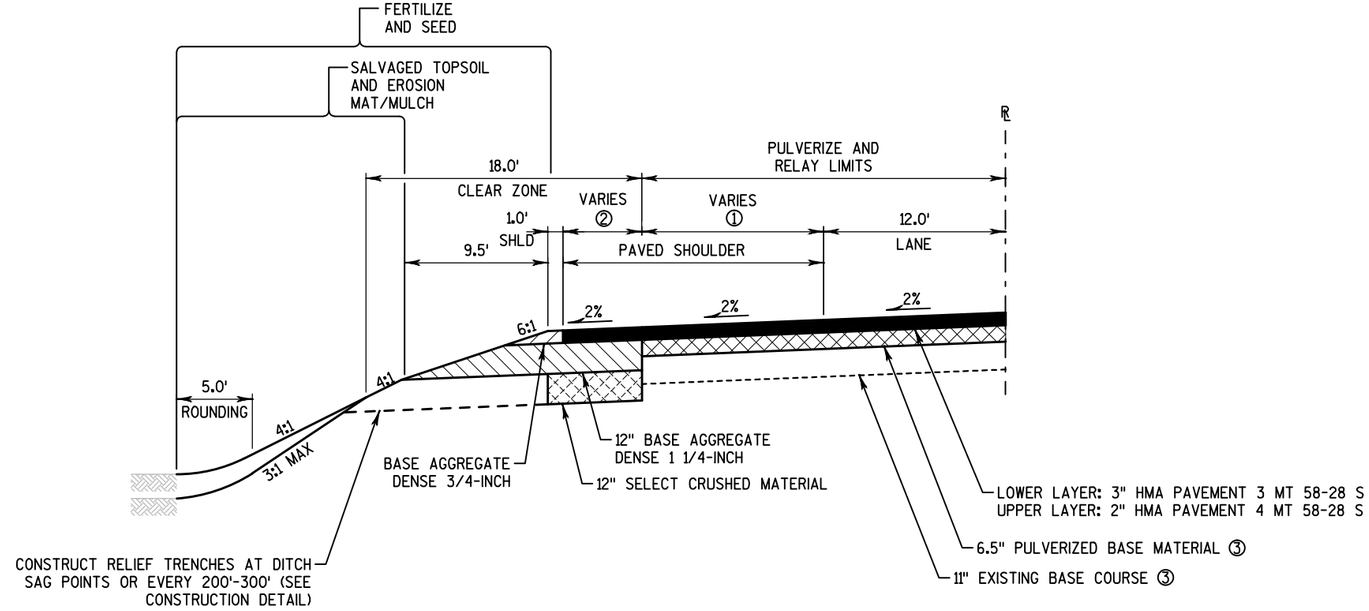
SAVE FOLDER PATH: P:\UZ\WW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

NOTES:

① PAVED SHOULDER LANE PULVERIZE AND RELAY WIDTH VARIES 6.8' TO 12'
STA 2105+98 TO 2109+82

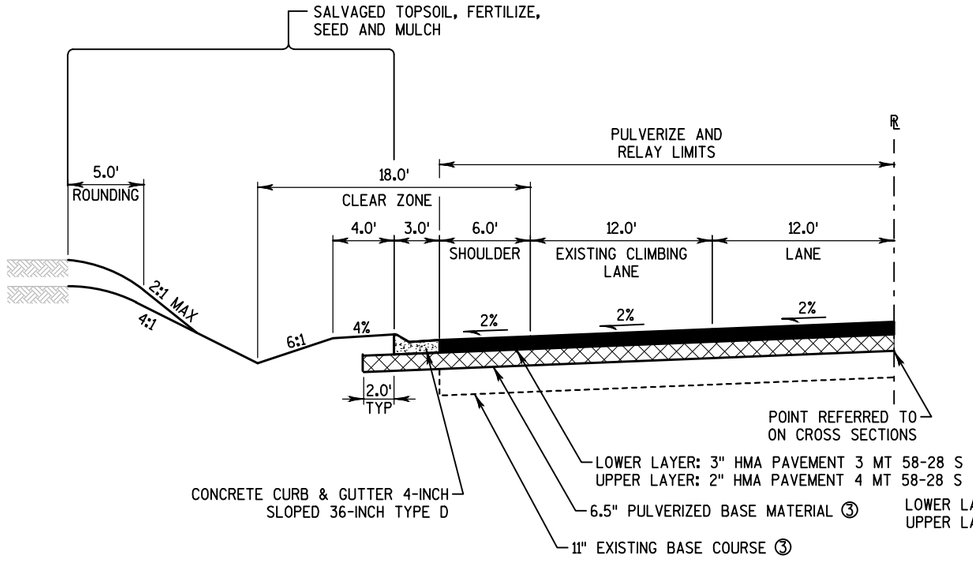
② PAVED SHOULDER FULL DEPTH WIDTH VARIES 0.0' TO 5.2'
STA 2104+49 TO STA 2105+98
STA 2109+82 TO STA 2110+85

③ REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION



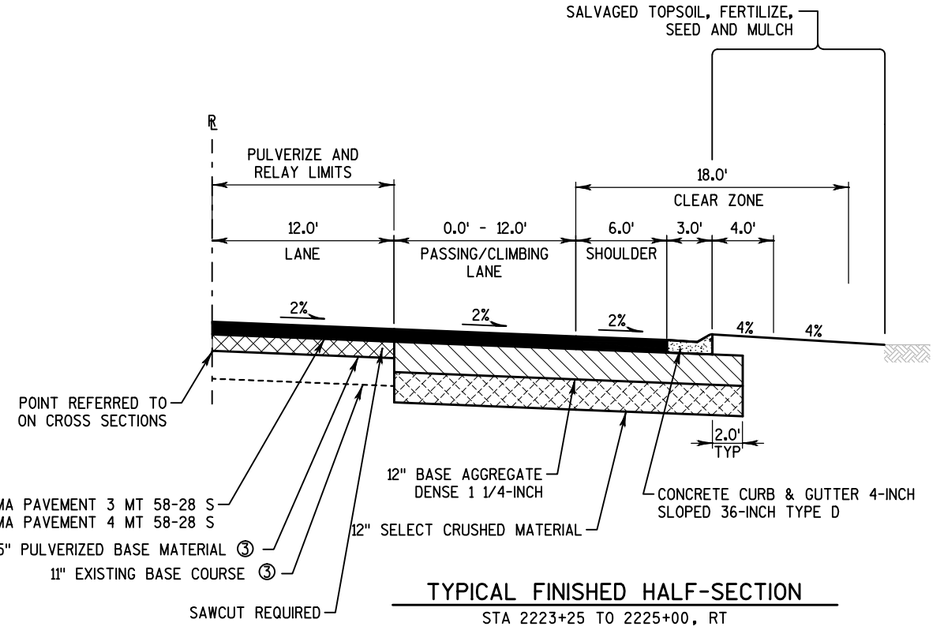
TYPICAL FINISHED HALF-SECTION (FILL)

STA 2104+49 TO 2110+85, LT



TYPICAL FINISHED HALF-SECTION

STA 2245+50 TO 2249+40, LT



TYPICAL FINISHED HALF-SECTION

STA 2223+25 TO 2225+00, RT

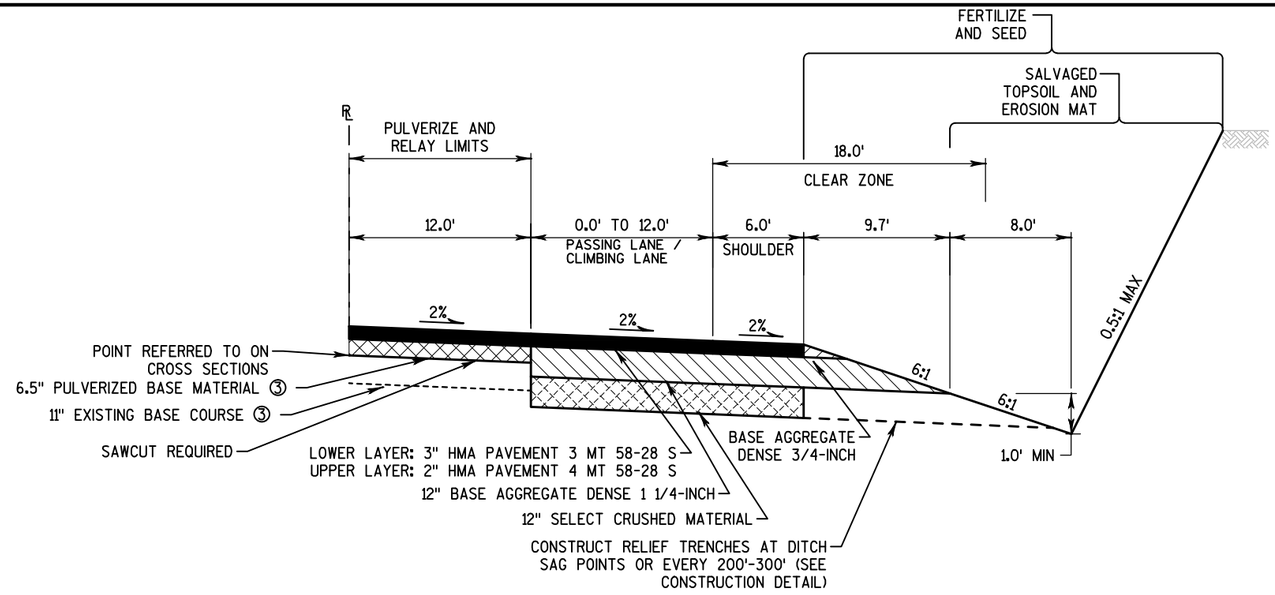
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 7	E

NOTES:

① WINDENING EXISTING 12' CLIMBING LANE (SOUTHBOUND) STA 2286+62 TO 2347+22

② MIRROR IMAGE

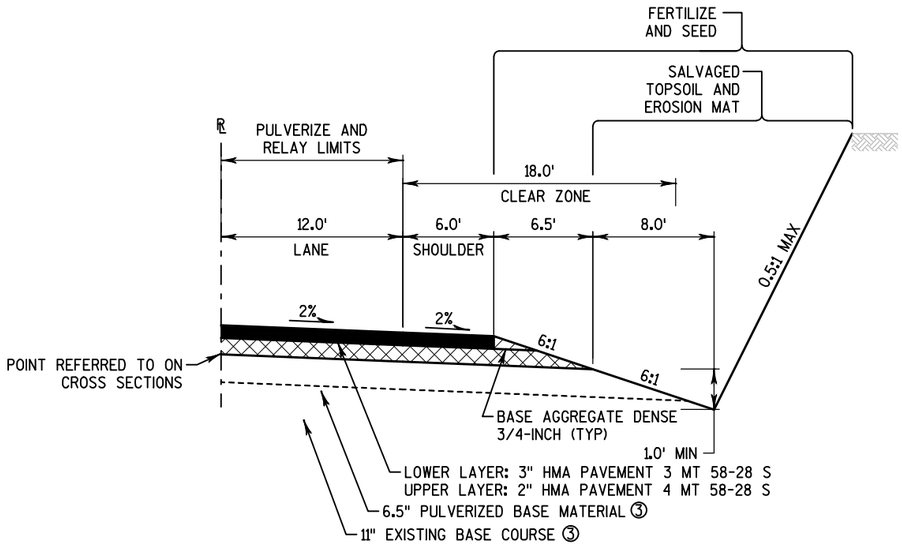
③ REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION



TYPICAL FINISHED SECTION - ROCK CUT

USH 61

STA 2225+00 TO STA 2228+00, RT & LT
STA 2310+00 TO STA 2317+00, LT ①②
STA 2313+00 TO STA 2317+00, RT ①②
STA 2323+00 TO STA 2324+00, LT ①②
STA 2328+00 TO STA 2329+50, LT ①②
STA 2329+00 TO STA 2330+50, RT ①②
STA 2334+50 TO STA 2341+00, LT ①②
STA 2425+00 TO STA 2428+00, LT
STA 2491+00 TO STA 2494+00, LT
STA 2556+00 TO STA 2559+00, RT ②



TYPICAL FINISHED SECTION - ROCK CUT

USH 61
STA 2245+00 TO STA 2247+50, RT & LT
STA 2362+00 TO STA 2363+50, LT
STA 2578+00 TO STA 2582+00, RT

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 8	E

FILE NAME : 020300_TS (TYPICAL SECTIONS).DWG PLOT DATE : 10/25/2016 2:10 PM PLOT BY : SEH INC LAYOUT NAME : 020305_TS PLOT SCALE : 1 IN:10 FT

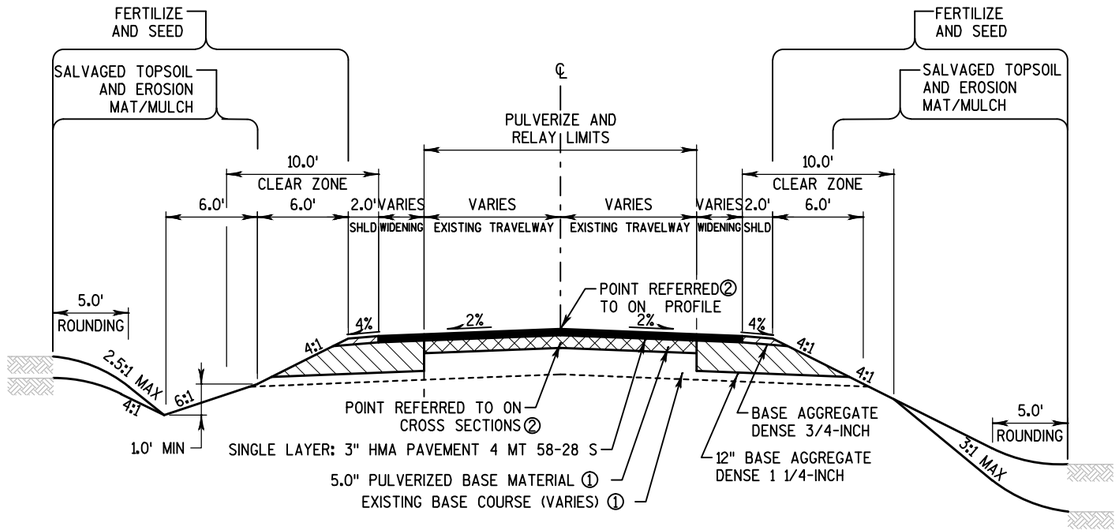
WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\WW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

NOTES:

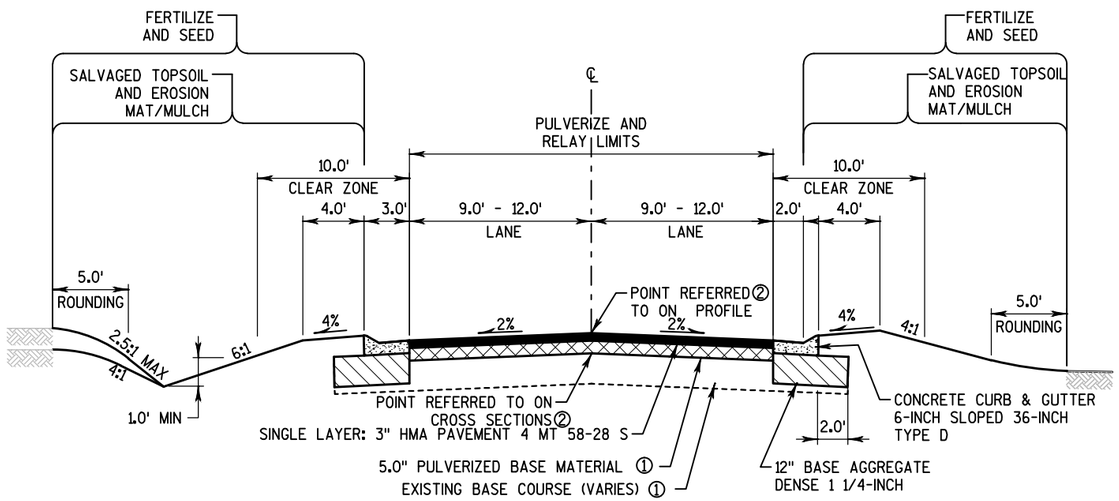
① REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION

② SEE PLAN AND PROFILE SHEET AND CROSS SECTIONS FOR ADDITONAL INFORMATION



TYPICAL FINISHED SECTION - SIDE ROADS

CTH K
COMMERCIAL RD (SOUTH)
CIRCLE RD (SOUTH)
LIBERTY RIDGE RD (SOUTH)
LIBERTY RIDGE RD (WEST)
LIBERTY RIDGE RD (EAST)
CIRCLE RD (NORTH)②
ROGERS RD



TYPICAL FINISHED SECTION - SIDE ROADS

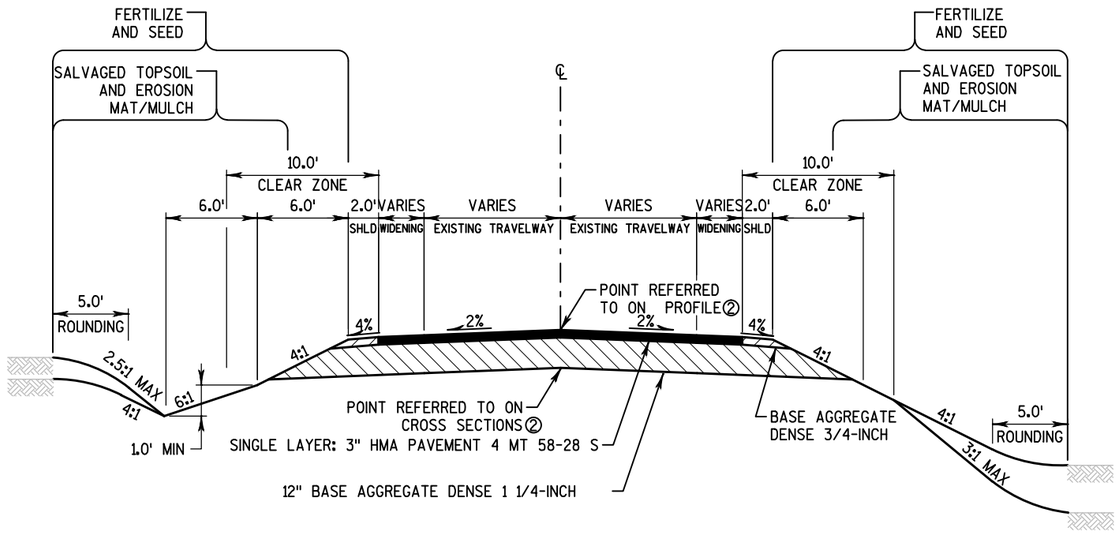
ENTERPRISE ST②
BEMIS RD
INDUSTRIAL DR

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 9	E

NOTES:

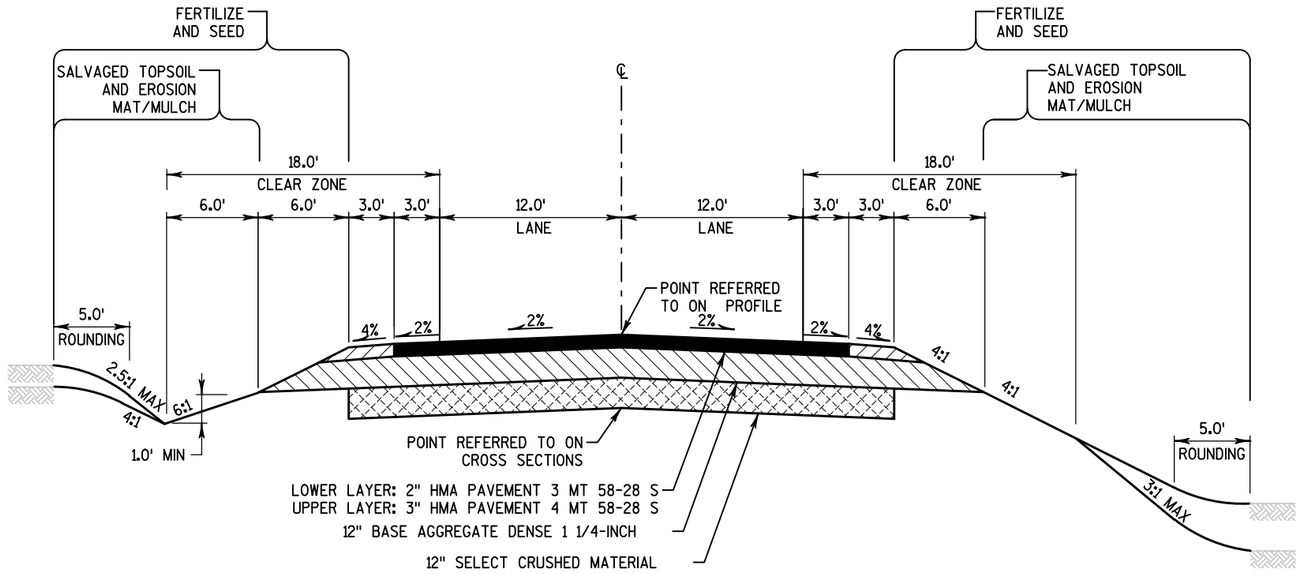
① REFER TO ROADWAY BORING SUMMARY PLAN SHEETS FOR ADDITIONAL INFORMATION

② SEE PLAN AND PROFILE SHEET AND CROSS SECTIONS FOR ADDITIONAL INFORMATION



TYPICAL FINISHED SECTION - SIDE ROADS

HYPOINT RD ②
GREGORY LN
PINE GROVE RD ②
WELLS LN ②
MCGHAN RD②



TYPICAL FINISHED SECTION - SIDE ROADS

CTH E

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	TYPICAL SECTIONS	SHEET 10	E

USH 61 MAINLINE BORINGS

BORING #	APPROX. STATION	OFFSET (FT)	BITUM. (IN)	BASE (IN)
B1	2065+83	6' RT	7	7
B2	2074+97	6' LT	8.5	9
B3	2085+58	7' RT	9	9
B3A	2085+58	RT	-	24
B4	2095+93	5' LT	7.5	10.5
B4A	2095+93	16' LT	-	20
B5	2106+54	18' RT	5.5	8.5
B6	2117+16	9' RT	6	12
B7	2127+66	5' LT	9	11
B8	2148+78	7' LT	5.5	28.5
B9	2159+34	RT	6	18
B10	2169+48	7' RT	7	20
B11	2180+62	6' LT	5	27
B11A	2201+74	17' LT	-	8
B12	2191+34	7' LT	6	12
B13	2201+74	RT	6	18
B14	2212+25	7' RT	6.5	14
B15	2222+65	LT	6	10
B16	2235+32	LT	8	12
B17	2243+88	5' RT	7	11
B18	2254+38	9' RT	8	16
B19	2264+94	4' LT	6	20
B28	2360+09	LT	7	12
B29	2370+49	4' RT	6	10
B30	2381+05	9' RT	6	8
B31	2391+61	4' LT	8.5	9.5
B32	2402+38	9' LT	7	11
B33A	2412+94	19' RT	-	14
B34	2423+40	9' RT	7	5
B35	2434+17	4' LT	6	6
B35A	2434+17	15' LT	-	14
B36	2444+62	8' LT	5.5	8.5
B38	2454+97	4' RT	6	7
B39	2465+58	9' RT	5	5
B40	2476+30	4' LT	6	4
B41	2486+65	LT	6	6
B42	2497+42	4' RT	8	6
B43	2507+88	9' RT	5.5	5.5
B44	2518+54	4' LT	7.5	5
B45	2529+10	9' LT	6	6
B46	2539+45	4' RT	6	7
B46A	2539+45	15' RT	-	12
B47	2549+96	9' RT	7	4
B48	2560+57	4' LT	6	7
B48A	2560+57	15' LT	-	7
B49	2571+13	9' LT	6	8
B50	2581+95	4' RT	5	6
B51	2596+32	9' RT	6	12
AVERAGE			6.5	11.0

USH 61 EXISTING PASSING LANE BORINGS

BORING #	APPROX. STATION	OFFSET (FT)	BITUM. (IN)	BASE (IN)
B21	2287+38	5' RT	8	10
B21A	2287+38	15' RT	-	10
B22	2296+57	17' RT	8	8
B23	2307+13	15' LT	10	12
B24	2317+85	6' LT	8	10
B25	2328+30	19' RT	-	12
B26	2338+86	6' RT	7	13
AVERAGE			8.2	10.7

2

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #1			
BEGIN PROJECT 2063+40	-2.0%	-2.0%	BEGIN ALIGNMENT
2069+75	-2.0%	-2.0%	END NORMAL SHOULDER
2069+74	-2.0%	-2.0%	END NORMAL CROWN
2070+47	0.0%	-2.0%	LEVEL CROWN
2071+19	2.0%	-2.0%	REVERSE CROWN
2071+91	4.0%	-4.0%	LOW SHOULDER MATCH
2072+34	5.2%	-5.2%	BEGIN FULL SUPER
2084+23	5.2%	-5.2%	END FULL SUPER
2084+66	4.0%	-4.0%	LOW SHOULDER MATCH
2085+38	2.0%	-2.0%	REVERSE CROWN
2086+10	0.0%	-2.0%	LEVEL CROWN
2086+82	-2.0%	-2.0%	BEGIN NORMAL CROWN
2086+82	-2.0%	-2.0%	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #2			
2116+54	-2	-2	END NORMAL SHOULDER
2116+54	-2	-2	END NORMAL CROWN
2117+31	-2	0	LEVEL CROWN
2118+08	-2	2	REVERSE CROWN
2118+84	-4	4	LOW SHOULDER MATCH
2119+42	-5.5	5.5	BEGIN FULL SUPER
2125+14	-5.5	5.5	END FULL SUPER
2125+72	-4	4	LOW SHOULDER MATCH
2126+49	-2	2	REVERSE CROWN
2127+25	-2	0	LEVEL CROWN
2128+02	-2	-2	BEGIN NORMAL CROWN
2128+02	-2	-2	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #3			
2147+88	-2.0	-2.0	END NORMAL SHOULDER
2147+88	-2.0	-2.0	END NORMAL CROWN
2148+65	-2.0	0.0	LEVEL CROWN
2149+41	-2.0	2.0	REVERSE CROWN
2149+57	-2.4	2.4	BEGIN FULL SUPER
2166+25	-2.4	2.4	END FULL SUPER
2166+40	-2.0	2.0	REVERSE CROWN
2167+17	-2.0	0.0	LEVEL CROWN
2167+93	-2.0	-2.0	BEGIN NORMAL CROWN
2167+93	-2.0	-2.0	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #4			
2193+42	-2.0	-2.0	END NORMAL SHOULDER
2193+42	-2.0	-2.0	END NORMAL CROWN
2194+19	-2.0	0.0	LEVEL CROWN
2194+96	-2.0	2.0	BEGIN FULL SUPER
2194+96	-2.0	2.0	REVERSE CROWN
2210+03	-2.0	2.0	END FULL SUPER
2210+03	-2.0	2.0	REVERSE CROWN
2210+80	-2.0	0.0	LEVEL CROWN
2211+57	-2.0	-2.0	BEGIN NORMAL CROWN
2211+57	-2.0	-2.0	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #5			
2247+79	-2.0	-2.0	END NORMAL SHOULDER
2247+79	-2.0	-2.0	END NORMAL CROWN
2248+55	-2.0	0.0	LEVEL CROWN
2249+32	-2.0	2.0	REVERSE CROWN
2250+08	-4.0	4.0	BEGIN FULL SUPER
2273+69	-4.0	4.0	END FULL SUPER
2274+45	-2.0	2.0	REVERSE CROWN
2275+22	-2.0	0.0	LEVEL CROWN
2275+98	-2.0	-2.0	BEGIN NORMAL CROWN
2275+98	-2.0	-2.0	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #6			
2340+61	-2.0	-2.0	END NORMAL SHOULDER
2340+61	-2.0	-2.0	END NORMAL CROWN
2341+38	0.0	-2.0	LEVEL CROWN
2342+14	2.0	-2.0	REVERSE CROWN
2342+72	3.5	-3.5	BEGIN FULL SUPER
2377+74	3.5	-3.5	END FULL SUPER
2378+32	2.0	-2.0	REVERSE CROWN
2379+08	0.0	-2.0	LEVEL CROWN
2379+85	-2.0	-2.0	BEGIN NORMAL CROWN
2379+85	-2.0	-2.0	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #7			
2460+23	-2.0	-2.0	END NORMAL SHOULDER
2460+23	-2.0	-2.0	END NORMAL CROWN
2461+00	-2.0	0.0	LEVEL CROWN
2461+77	-2.0	2.0	REVERSE CROWN
2462+00	-2.6	2.6	BEGIN FULL SUPER
2495+68	-2.6	2.6	END FULL SUPER
2495+91	-2.0	2.0	REVERSE CROWN
2496+68	-2.0	0.0	LEVEL CROWN
2497+45	-2.0	-2.0	BEGIN NORMAL CROWN
2497+45	-2.0	-2.0	BEGIN NORMAL SHOULDER

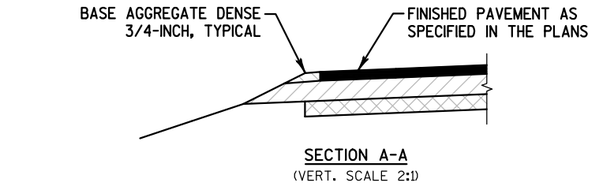
STATION	LEFT	RIGHT	DESCRIPTION
CURVE #8			
2507+33	-2.0	-2.0	END NORMAL SHOULDER
2507+33	-2.0	-2.0	END NORMAL CROWN
2508+10	-2.0	0.0	LEVEL CROWN
2508+87	-2.0	2.0	BEGIN FULL SUPER
2508+87	-2.0	2.0	REVERSE CROWN
2538+54	-2.0	2.0	END FULL SUPER
2538+54	-2.0	2.0	REVERSE CROWN
2539+31	-2.0	0.0	LEVEL CROWN
2540+08	-2.0	-2.0	BEGIN NORMAL CROWN
2540+08	-2.0	-2.0	BEGIN NORMAL SHOULDER

STATION	LEFT	RIGHT	DESCRIPTION
CURVE #9			
2551+24	-2.0	-2.0	END NORMAL SHOULDER
2551+24	-2.0	-2.0	END NORMAL CROWN
2552+01	-2.0	0.0	LEVEL CROWN
2552+78	-2.0	2.0	REVERSE CROWN
2553+39	-3.6	3.6	BEGIN FULL SUPER
2565+22	-3.6	3.6	END FULL SUPER

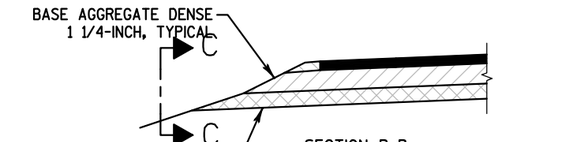
STATION	LEFT	RIGHT	DESCRIPTION
CURVE #10			
2569+07	5.0	-5.0	BEGIN FULL SUPER
2583+68	5.0	-5.0	END FULL SUPER
2584+07	4.0	-4.0	LOW SHOULDER MATCH
2584+83	2.0	-2.0	REVERSE CROWN
2585+59	0.0	-2.0	LEVEL CROWN
2586+36	-2.0	-2.0	BEGIN NORMAL CROWN
2586+36	-2.0	-2.0	BEGIN NORMAL SHOULDER
2600+08	-2.0	-2.0	END ALIGNMENT

PROJECT NO: 1650-06-71	HWY: USH 61	COUNTY: GRANT	SUPERELEVATION DATA TABLE	SHEET	E

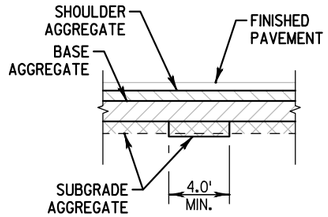
SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 020400_TS (SUPER ELV TABLES).DWG
PLOT DATE : 10/24/2016 9:38 AM PLOT BY : SEH INC LAYOUT NAME : 020401_TS PLOT SCALE : NTS
WISDOT/CADDS SHEET 42



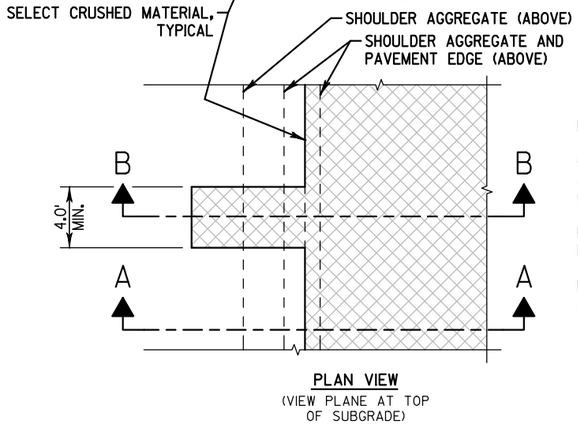
SECTION A-A
(VERT. SCALE 2:1)



SECTION B-B
(VERT. SCALE 2:1)



SECTION C-C
(VERT. SCALE 2:1)



PLAN VIEW
(VIEW PLANE AT TOP
OF SUBGRADE)

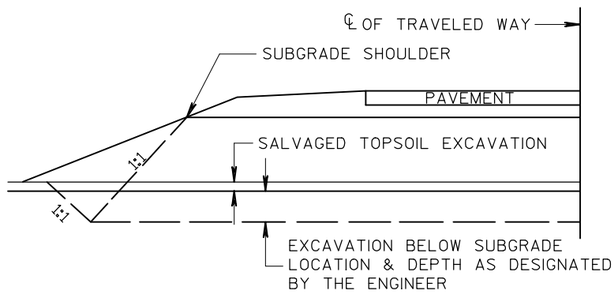
NOTE:

CONSTRUCT RELIEF TRENCHES AT 200' TO 300' INTERVALS AND AT PROFILE SAG POINTS (LEFT AND RIGHT).

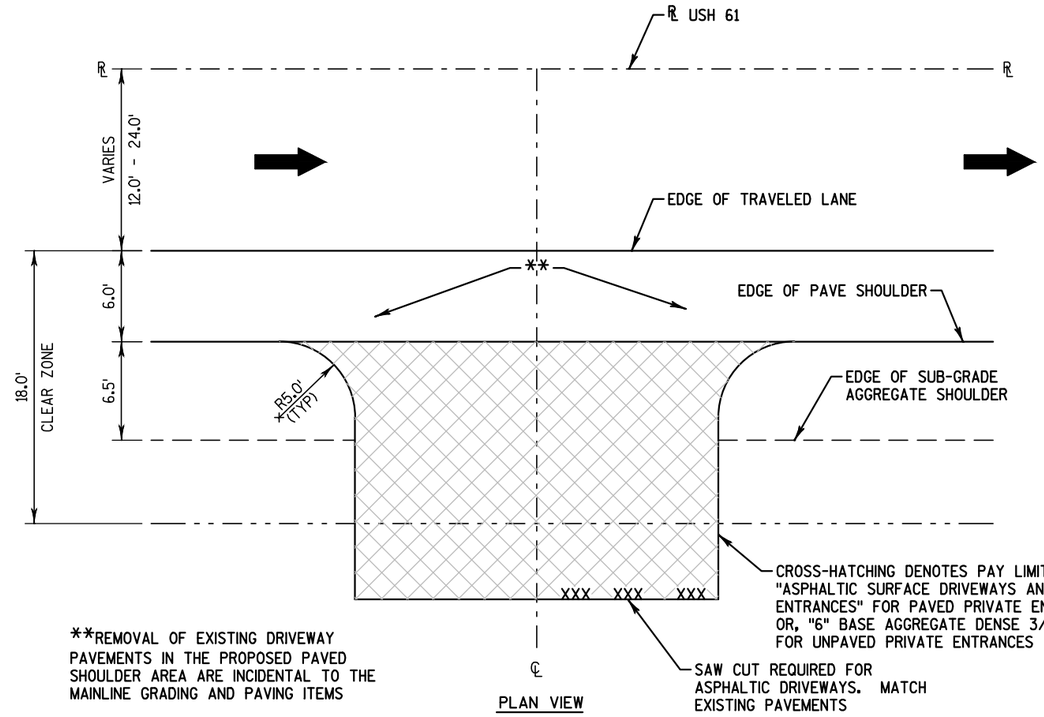
FINAL LOCATIONS TO BE APPROVED OR DETERMINED BY THE ENGINEER IN THE FIELD.

MATERIALS AND LABOR FOR RELIEF TRENCH ARE INCIDENTAL TO SELECT MATERIAL.

RELIEF TRENCH

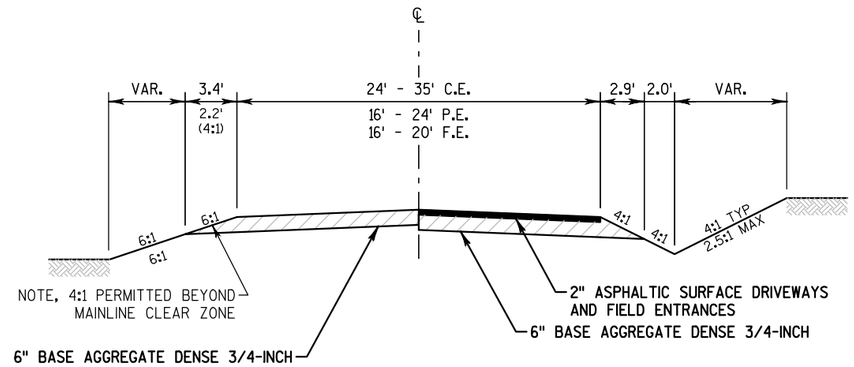


EXCAVATION BELOW SUBGRADE



**REMOVAL OF EXISTING DRIVEWAY PAVEMENTS IN THE PROPOSED PAVED SHOULDER AREA ARE INCIDENTAL TO THE MAINLINE GRADING AND PAVING ITEMS

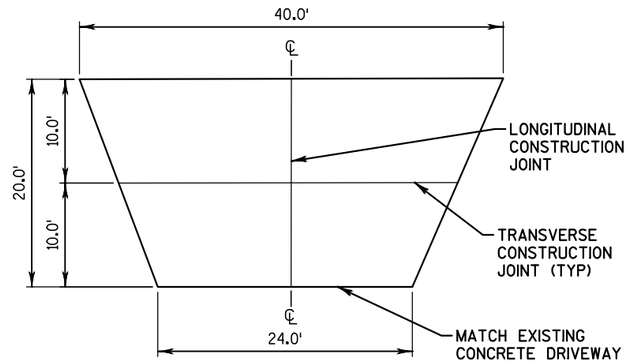
PLAN VIEW



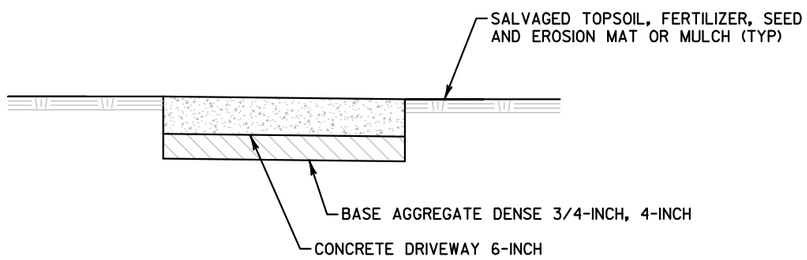
TYPICAL FINISHED HALF-SECTIONS

RURAL PRIVATE ENTRANCE DETAILS

2



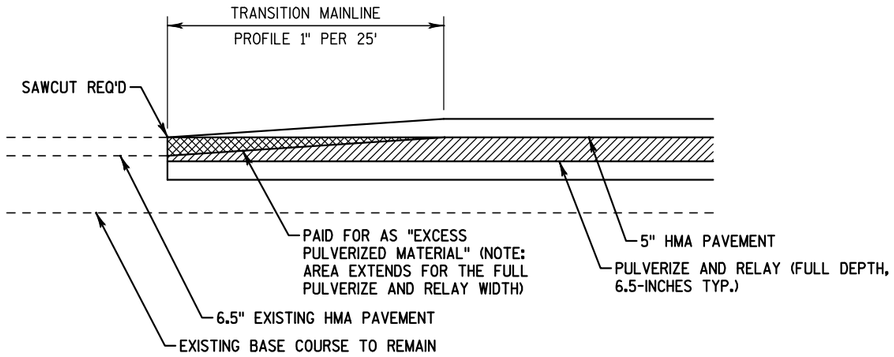
CONTRACTION JOINT PLAN



TYPICAL SECTION

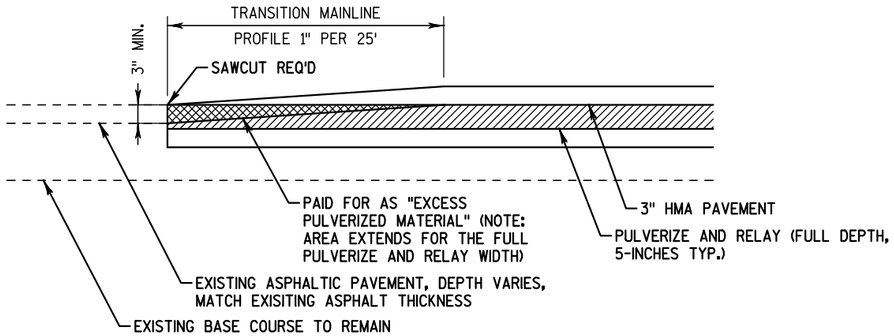
CONCRETE DRIVEWAY 6-INCH
STATION 2592+88, RT

SAVE FOLDER PATH: P:\UZ\WW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN



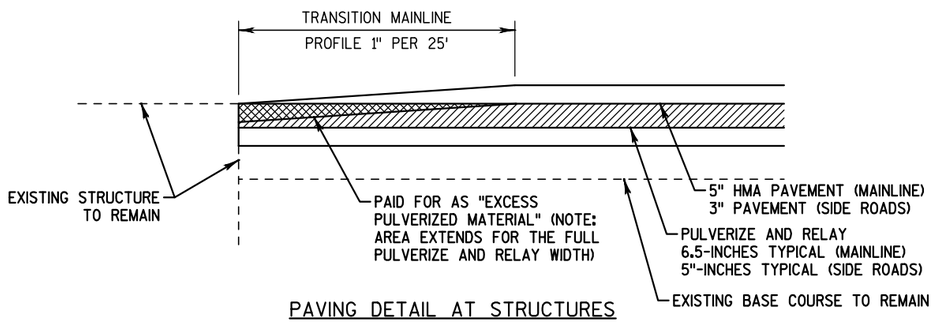
USH 61 PAVEMENT TRANSITION

STATION 2066+20.00
STATION 2128+40.00
STATION 2150+40.00
STATION 2594+24.00



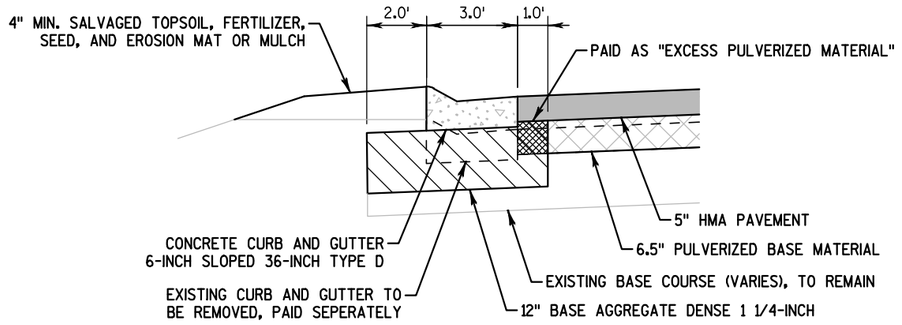
SIDE ROAD PAVEMENT TRANSITION

CTH K	LIBERTY RIDGE RD (WEST)
COMMERCIAL RD (SOUTH)	LIBERTY RIDGE RD (NORTH)
CIRCLE RD (SOUTH)	CIRCLE RD (NORTH)
LIBERTY RIDGE RD (SOUTH)	ROGERS RD



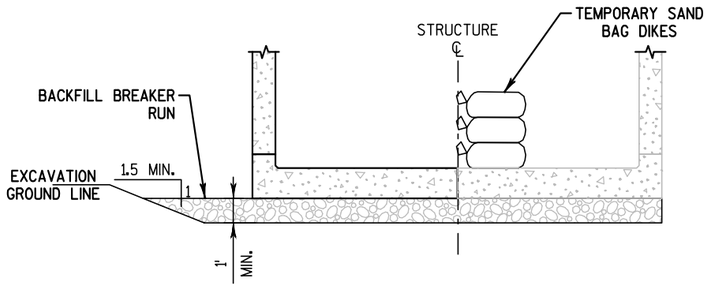
PAVING DETAIL AT STRUCTURES

STATION 2350+63 TO STATION 2350+95 (B-22-702)
PINE GROVE ROAD
WELL LANE

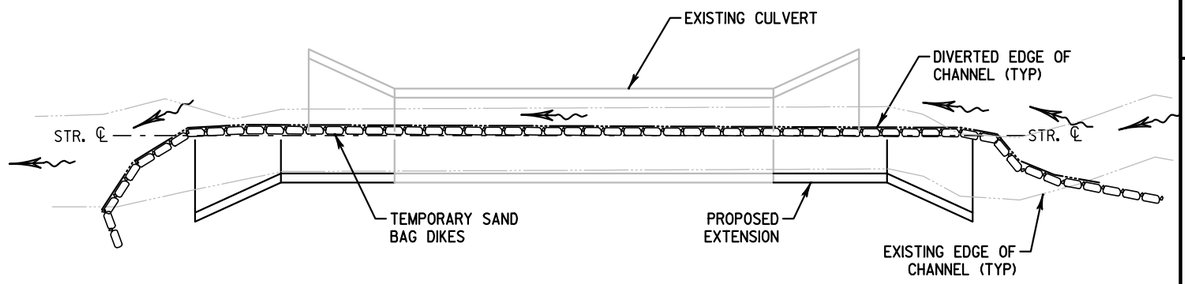


INTERSECTION CURB AND GUTTER REPLACEMENT

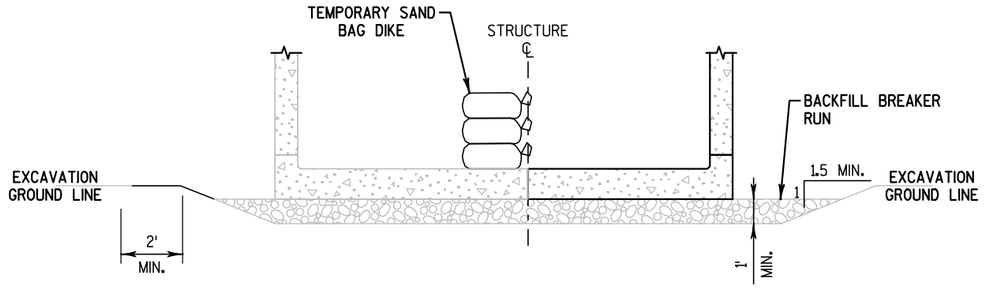
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CONSTRUCTION DETAILS	SHEET 15	E



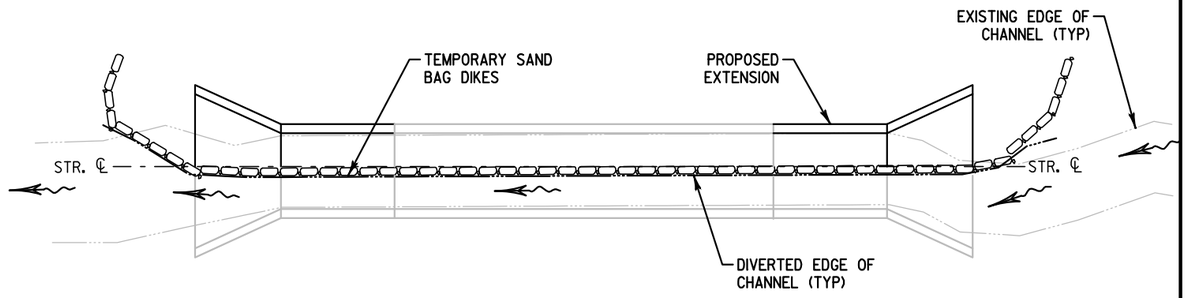
TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL



TYPICAL PLAN VIEW OF TEMPORARY BYPASS CHANNEL



TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL



TYPICAL PLAN VIEW OF TEMPORARY BYPASS CHANNEL

NOTE:

TEMPORARY CHANNEL MUST BE CAPABLE OF CARRYING NORMAL STREAM FLOW AND MUST MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY. SEE STRUCTURE PLANS FOR HYDRAULIC INFORMATION.

IT IS ASSUMED THE WORK ZONE WILL BE INUNDATED FOR HEAVY RAINFALL EVENTS.

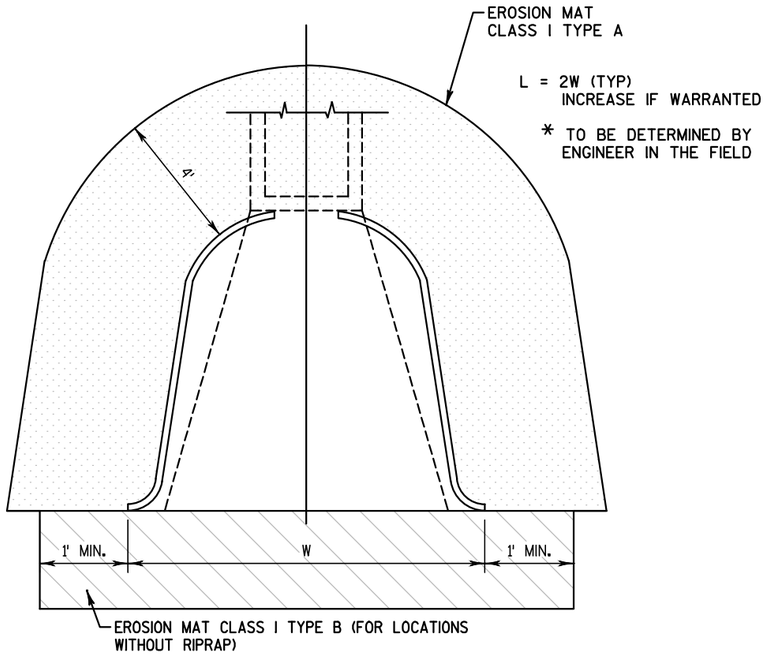
SCHEMATIC VIEWS OF DEWATERED WORK ZONE ARE FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR MAY CHOOSE DEWATERING METHODS WHICH SUIT THEIR BEST PRACTICES.

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

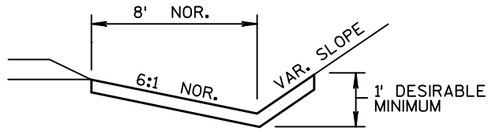
RUNOFF COEFFICIENT TABLE

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

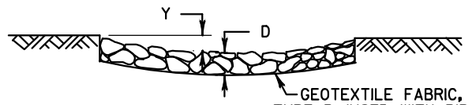
TOTAL PROJECT AREA = __.__ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = __.__ ACRES



EROSION MAT AT APRON ENDWALLS

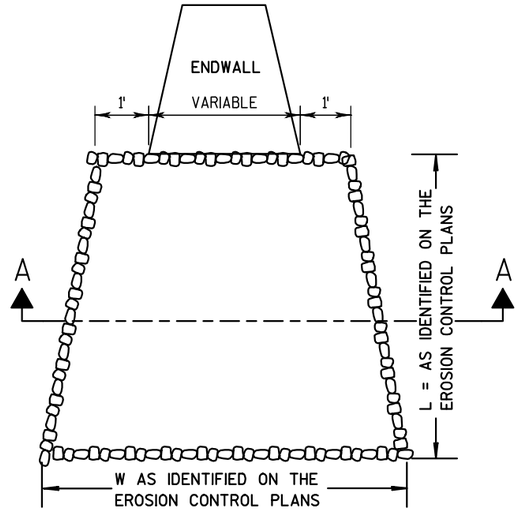


EROSION MAT FOR DITCHES

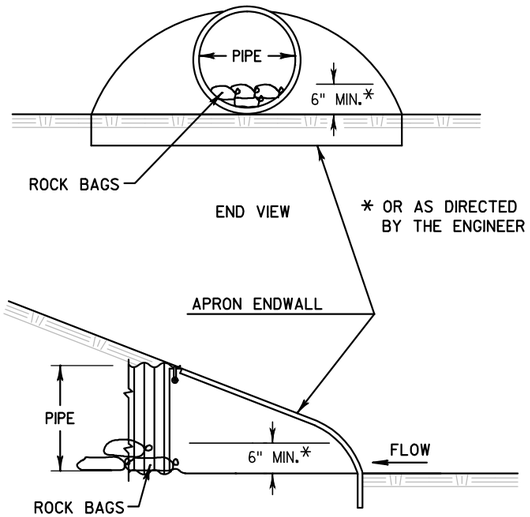


SECTION A-A

D = 18" FOR RIPRAP MEDIUM
Y = 0' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
= 12" FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

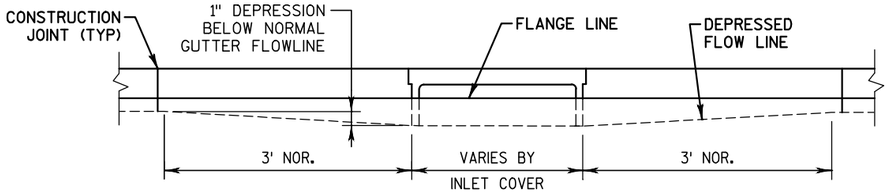


RIPRAP MEDIUM AND GEOTEXTILE FABRIC AT APRON ENDWALLS
(SEE EROSION CONTROL PLANS FOR APPROXIMATE LOCATIONS)

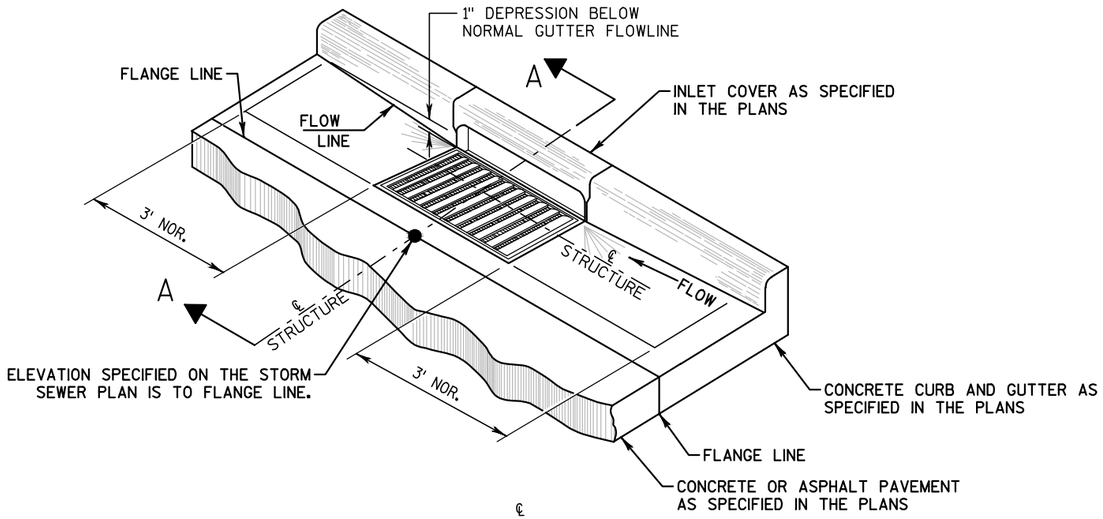


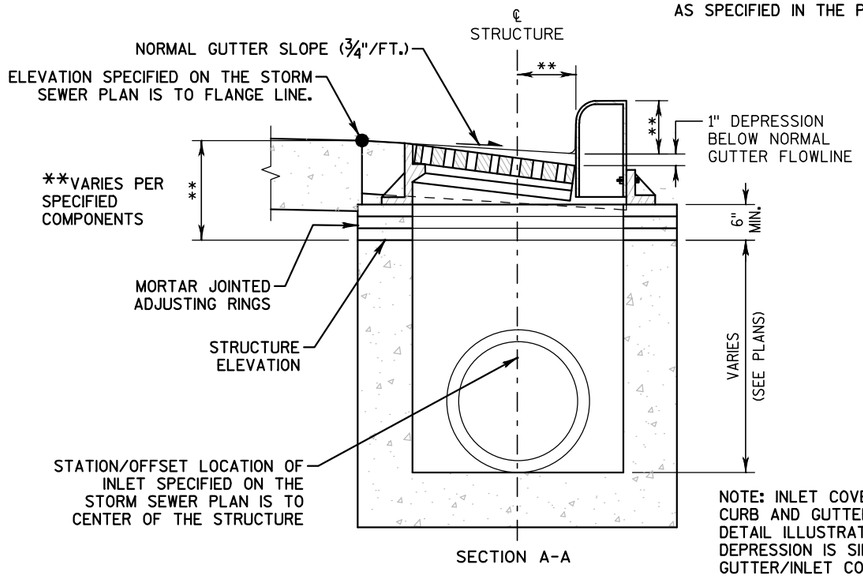
CULVERT PIPE CHECK
SEE MISCELLANEOUS QUANTITIES TABLE FOR AMOUNT REQ'D PER PIPE

SAVE FOLDER PATH:P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 021000_CD (CNSTR DETAILS).DWG
PLOT DATE : 10/24/2016 9:38 AM
PLOT BY : SEH INC
LAYOUT NAME : 021004_CD
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



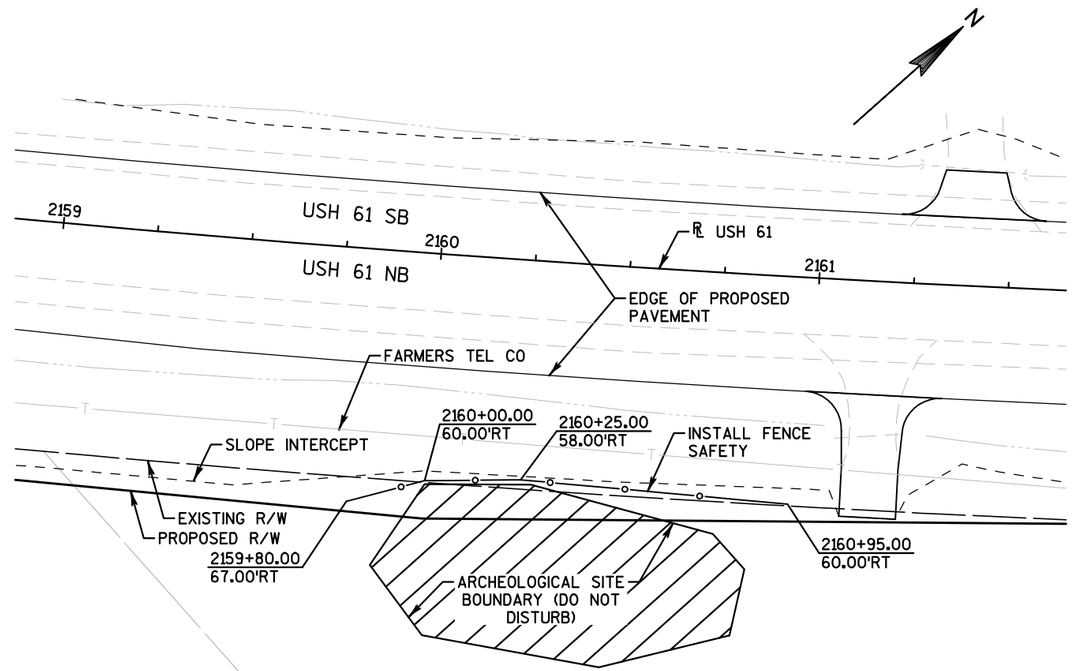
ELEVATION AT FLANGE LINE
(GRATE AND CURB DETAILS OMITTED FOR DRAWING CLARITY)





NOTE: INLET COVER - TYPE H AND CONCRETE CURB AND GUTTER 30-INCH SHOWN FOR DETAIL ILLUSTRATION ONLY. GUTTER PAN DEPRESSION IS SIMILAR FOR OTHER CURB & GUTTER/INLET COVER COMBINATIONS.

TYPICAL GUTTER PAN DEPRESSION AT INLETS



ARCHEOLOGICAL SITE DELINEATION
STA 2159+90, RT TO 2160+95, RT

GENERAL NOTE:

(A) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

(B) CONCRETE CURB & GUTTER 30-INCH TYPE D

(C) CONCRETE SURFACE DRAIN WITH MEDIUM RIPRAP END TREATMENT REQ'D

END CONSTRUCTION
STA 26+87.50'K'
MATCH EXISTING
BUTT JOINT REQ'D

26+87.50'K'
12.00'LT

26+87.50'K'
18.23'RT

SAWCUT REQ'D

STA 25+56'K'
1-24"X95' CPCS REQ'D
2-24" AECPS REQ'D
2-MCE REQ'D

STA 26+70'K', RT
REMOVE EXISTING SMALL CULVERT PIPE
1-24"X38' CPRC REQ'D
2-24" AECPRC REQ'D

CTH K

N47°29'00"W

26+58.51'K'
44.65'RT

26+49.21'K'
19.39'RT

26+31.71'K'
18.98'RT

26+17.35'K'
12.00'LT

25+90.68'K'
16.00'LT

25+77.35'K'
18.00'LT

26+00'K'

3'

TLE

STA 25+78.24'K', 74.00'RT
STA 2074+24.81, 74.00'LT

Y=528,028.271
X=819,776.554

STA 25+67.35'K', 68.00'LT
STA 2072+89.30, 74.00'LT

Y=527,916.242
X=819,688.621

CITY OF LANCASTER-SANITARY

EXIST R/W

CHARTER

R50'

18'

1115.29

24'

1115.07

EXISTING EASEMENT

SLOPE INTERCEPT

EXIST R/W

1114.90

DEPRESS CURB

REMOVE CURB & GUTTER

CP142

1115.46

REMOVING SMALL PIPE CULVERTS

2074+28.06
26.00'LT

2072+35.37
18.00'LT

1116.22

REMOVE CURB & GUTTER

85°16'22"

1115.22

REMOVE CURB & GUTTER

24'

2'

CAUTION

PC: 2071+74.35

2071+00

2072+00

2073+00

2074+00

2075+00

2076+00

MATCHLINE

USH 61

2070+52.65
18.00'RT

2071+55.00
24.00'RT

SLOPE INTERCEPT

STA 25+00.00'K' =
STA 2073+48.49
CONSTRUCT TYPE A2
INTERSECTION

WE ENERGIES-GAS

EXIST R/W

WISCONSIN POWER & LIGHT COMPANY

MH

SIGN

CANOPY

2'

2077+74.89
26.00'LT

SLOPE INTERCEPT

2078+87.41
18.00'LT

2078+74.88
18.00'LT

2077+00

2078+00

2079+00

MATCHLINE

2077+25.00
24.00'RT

SLOPE INTERCEPT

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - CTH K	SHEET 19	E

2

N

STA 45+52'CM'
1-18"X95' CPCS REQ'D
2-18" AECPS REQ'D
2-MCE REQ'D

STA 46+10'CM'
CONSTRUCT ASPH PE
1-18"X27' CPCS REQ'D
2-18" AECPS REQ'D

END CONSTRUCTION
STA 46+88.85'CM'
MATCH EXISTING
BUTT JOINT REQ'D

46+88.85'CM'
9.00'LT

46+88.85'CM'
9.00'RT

46+79.34'CM'
9.00'RT

46+55.79'CM'
9.00'LT

47+00'CM'

N00°48'34"E

COMMERCIAL RD

46+00'CM'

WISCONSIN POWER
& LIGHT COMPANY

2'

PROPOSED R/W

STA 45+65.78'CM', 65.00'LT
STA 2103+11.64, 74.00'LT

45+75.77'CM'
14.98'LT

15'

1132.86

STA 45+89.33'CM', 70.00'RT
STA 2104+48.58, 79.00'LT

Y=528,785.662
X=822,686.165

EXISTING EASEMENT

FARMERS TELEPHONE COMPANY

CITY OF LANCASTER
WATER

WISCONSIN POWER
& LIGHT COMPANY

Y=528,764.018
X=822,550.846

R50'

1133.38

15'

R55'

PROPOSED R/W

CHARTER

2106+86.08
24.00'LT

1133.93

1134.41

2102+51.64
18.00'LT

2106+48.58
26.00'LT

2106+73.58
24.00'LT

12.5:1 TAPER

REMOVING SMALL
PIPE CULVERTS

1134.84

82°11'39"

1134.30

1'

18'

24'

26'

USH 61

2102+00

2103+00

2104+00

2105+00

2106+00

2107

45+00'CM'

MATCHLINE 2107+00.00

SLOPE INTERCEPT

2104+12.57
18.00'RT

12.5:1 TAPER

2105+12.57
26.00'RT

CAUTION

EXIST R/W

FARMERS TELEPHONE COMPANY

STA 45+00.00'CM' =
STA 2103+67.10
CONSTRUCT TYPE B2
INTERSECTION

WE ENERGIES-GAS

WISCONSIN POWER
& LIGHT COMPANY

CITY OF LANCASTER
WATER

SIGN

GENERAL NOTE:

(A) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

(B) CONCRETE SURFACE DRAIN WITH MEDIUM RIPRAP END TREATMENT REQ'D

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - COMMERCIAL RD	SHEET 20	E

GENERAL NOTE:

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

END CONSTRUCTION
STA 66+04.12'ID'
MATCH EXISTING
BUTT JOINT REQ'D

CITY OF LANCASTER-STORM

NO1°11'51"E

INDUSTRIAL DR

WISCONSIN POWER & LIGHT COMPANY

STA 2112+30.61, 36.3'LT
REMOVE SMALL PIPE CULVERT
1-INLET 3G-MS REQ'D
1-18"X136' SSPRC CLASS IV REQ'D
1-18" AECPRC REQ'D

66+04.12'ID'
17.00'LT

66+04.12'ID'
17.00'RT

PROPOSED R/W

ADJUST MANHOLE COVER

STA 57+72.10'BM' =
STA 2107+98.61
CONSTRUCT TYPE B2
INTERSECTION

CITY OF LANCASTER-SANITARY

FARMERS TELEPHONE COMPANY

CITY OF LANCASTER-WATER

SLOPE INTERCEPT

WISCONSIN POWER & LIGHT COMPANY

CAUTION

STA 2110+86.12, 74.00'LT
STA 65+65.12'ID', 67.00'LT

Y=528,858.357
X=823,319.564

2110+88.77
40.93'LT

WE ENERGIES-GAS

1135.13

1135.11

1135.83

1136.00

1136.56

1137.64

17'

17'

R50'

R55'

PROPOSED R/W

STA 2112+27.27, 79.00'LT
STA 65+90.18'ID', 72.00'RT

Y=528,880.513
X=823,459.057

2112+25.46
36.27'LT

2112+30.61
26.00'LT

REMOVING SMALL PIPE CULVERTS

CP139

81°48'21"

65+00'IN'

66+00'IN'

24'

26'

1'

+00 2108+00 2109+00 2110+00 2111+00 2112+00 2113+00

USH 61

MATCHLINE 2107+00.00

1133.43

ADJUST MANHOLE COVER

97°23'37"

2107+09.32
26.00'RT

R50'

1133.15

Y=528,665.967
X=822,966.904

56+91.86'BM'
25.90'LT

STA 56+87.65'BM', 75.72'LT
STA 2107+12.65, 74.00'RT

N00°23'49"E

BEMIS RD

57+00'BM'

56+00'BM'

1134.01

1133.49

R50'

1132.38

PROPOSED R/W

56+97.48'BM'
26.00'RT

Y=528,684.726
X=823,119.757

STA 57+07.47'BM', 77.00'RT
STA 2108+66.65, 74.00'RT

BEGIN CONSTRUCTION
STA 56+92.00'BM'
MATCH EXISTING
BUTT JOINT REQ'D

2109+26.65
18.00'RT

SLOPE INTERCEPT

WE ENERGIES-GAS

WISCONSIN POWER & LIGHT COMPANY

CAUTION

STA 65+00.00'ID' =
STA 2111+43.16
CONSTRUCT TYPE B2
INTERSECTION

FARMERS TELEPHONE COMPANY

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - BEMIS RD, INDUSTRIAL DR	SHEET	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\021101_ID.DWG PLOT DATE : 12/12/2016 9:43 AM PLOT BY : ********** PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

GENERAL NOTE:

(A) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

(B) CONCRETE SURFACE DRAIN WITH MEDIUM RIPRAP END TREATMENT REQ'D

STA 96+67'CS'
1-18"X79' CPCS REQ'D
2-18" AECPS REQ'D
2-MCE REQ'D

STA 96+22'CS', LT
RECONSTRUCT AGG PE
1-18"X38' CPCS REQ'D
2-18" AECPS REQ'D

BEGIN CONSTRUCTION
STA 95+62.09'CS'
MATCH EXISTING
BUTT JOINT REQ'D

95+62.09'CS'
11.07'RT

95+62.09'CS'
10.85'LT

CIRCLE RD

S51°51'07"E

PROPOSED R/W

EXIST R/W

2'

WISCONSIN POWER & LIGHT COMPANY

WIN

ARTER

STA 96+50.70'CS', 55.00'RT
STA 2181+17.92, 58.00'LT

96+40.70'CS'
15.00'RT

1152.42

STA 96+33.67'CS', 75.00'LT
STA 2182+47.50, 78.00'LT

EXISTING EASEMENT

Y=532,842.545
X=828,960.107

15'

1152.92

2'

R40'

R40'

Y=532,729.793
X=828,893.197

REMOVING SMALL PIPE CULVERTS

EXIST R/W

2180+97.92
18.00'LT

1153.82

1154.69

CP134

2182+57.50
18.00'LT

1153.37

1156.10

88°41'15"

96+00'CS'

+00

2181+00

2182+00

2183+00

18'

30'

USH 61

SLOPE INTERCEPT

EXIST R/W

FARMERS TELEPHONE COMPANY

STA 97+09.98'CS' =
STA 2181+74.27
CONSTRUCT TYPE D
INTERSECTION

STA 116+74'LRS'
1-18"X79' CPCS REQ'D
2-18" AECPS REQ'D
2-MCE REQ'D

STA 115+07'LRS' TO STA 116+84'LRS', LT
REMOVE FENCE

PI STA = 116+73.26'LRS'
DELTA = 15°06'20"
D = 21°08'51"
T = 35.92
L = 71.43
R = 270.93
PC STA = 116+37.34'LRS'
PT STA = 117+08.77'LRS'

LIBERTY RIDGE RD

115+00'LRS'

BEGIN CONSTRUCTION
STA 115+34.42'LRS'
MATCH EXISTING
BUTT JOINT REQ'D

115+34.42'LRS'
9.00'LT

115+34.42'LRS'
9.00'RT

S89°19'45"E

115+83.00'LRS'
9.00'LT

PROPOSED R/W

PROPOSED R/W

2'

EXIST R/W

116+00'LRS'

PC: 116+37.34'LRS'

STA 116+73.10'LRS', 85.00'LT
STA 2240+12.05, 88.00'LT

Y=537,720.362
X=831,957.156

116+40.51'LRS'
14.80'RT

1085.10

STA 116+51.12'LRS', 55.00'RT
STA 2238+73.46, 58.00'LT

15'

1084.21

15'

SIGN

R70'

Y=537,583.607
X=831,919.694

R40'

WISCONSIN POWER & LIGHT COMPANY

WIN

DEPRESS CURB

1083.00

DEPRESS CURB

1083.07

CP129

117+00'LRS'

2240+22.05
18.00'LT

REMOVING GUARDRAIL

2238+53.46
18.00'LT

1083.92

PT: 117+08.77'LRS'

ST 4°13'24"E

101°45'28"

1083.52

REMOVING SMALL PIPE CULVERTS

+00

2239+00

2240+00

2241

18'

18'

USH 61

REMOVING GUARDRAIL

STA 117+34.88'LRS' =
STA 2239+46.69
CONSTRUCT TYPE D
INTERSECTION

FARMERS TELEPHONE COMPANY

EXIST R/W

SLOPE INTERCEPT

PROPOSED R/W

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - CIRCLE RD, LIBERTY RIDGE RD - SOUTH	SHEET 22	E

GENERAL NOTE:

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

Ⓑ CONCRETE SURFACE DRAIN WITH MEDIUM RIPRAP END TREATMENT REQ'D

CEMETERY

STA 137+95'LRW'
1-18"X75' CPCS REQ'D
2-18" AECPS REQ'D
2-MCE REQ'D

136+68.00'LRW'
9.18'RT

BEGIN CONSTRUCTION
STA 136+68.00'LRW'
MATCH EXISTING
BUTT JOINT REQ'D

PI STA = 136+11.37'LRW'
DELTA = 79°19'13"
D = 47°00'41"
T = 101.04
L = 168.73
R = 121.88
PC STA = 135+10.33'LRW'
PT STA = 136+79.05'LRW'

136+88.48'LRW'
9.05'RT

136+68.00'LRW'
9.05'LT

PT: 136+79.05'LRW'

PROPOSED R/W

LIBERTY RIDGE RD

137+00'LRW'

2'

PROPOSED R/W

STA 137+59'LRW' TO STA 137+89'LRW', RT & LT
REMOVE FENCE

WISCONSIN POWER & LIGHT COMPANY

WIN

STA 137+78.58'LRW', 75.00'RT
STA 2251+78.76, 78.00'LT

Y=538,748.612
X=832,495.083

PC: 2249+17.05

SLOPE INTERCEPT

137+68.58'LRW'
15.04'RT

1124.08

R60'

1122.54

15'

STA 138+39.87'LRW' =
STA 2252+36.98
CONSTRUCT TYPE D
INTERSECTION

Y=538,869.251
X=832,559.246

STA 137+57.47'LRW', 60.00'LT
STA 2253+18.02, 63.00'LT

18'

2250+00

USH 61

2251+00

2251+58.80
18.00'LT

1120.64

R45'

EXIST R/W

1120.16

S53°06'21"E

1121.72

DEPRESS CURB

2252+00

125+00'LRE: N88°10'49"E

75°22'20"

REMOVING SMALL
PIPE CULVERTS

1122.14

2253+28.02
18.00'LT

REMOVING GUARDRAIL

2253+00

2254+00

2255+00

FARMERS TELEPHONE COMPANY

1121.41

2251+54.80
18.00'RT

114°10'37"

CP128

PC: 125+33.36'LRE'

1123.39

EXIST R/W

STA 125+00.00'LRE' =
STA 2252+15.87
CONSTRUCT TYPE D
INTERSECTION

1122.05

REMOVING SMALL
PIPE CULVERTS

2253+22.37
18.00'RT

1123.62

R35'

R70'

1122.70

STA 2253+02.37, 53.00'RT
STA 126+02.59'LRE', 50.00'LT

Y=538,814.056
X=832,662.460

SLOPE INTERCEPT

STA 2251+64.80, 88.00'RT
STA 125+50.60'LRE', 85.00'RT

Y=538,670.271
X=832,642.100

FARMERS TELEPHONE COMPANY

SIGN

1123.85

126+00'LRE'

126+13.45'LRE'
15.08'LT

EXIST R/W

PROPOSED R/W

126+75.00'LRE'
11.09'LT

PT: 126+79.42'LRE'

END CONSTRUCTION
STA 126+75.00'LRE'
MATCH EXISTING
BUTT JOINT REQ'D

PI STA = 126+10.23'LRE'
DELTA = 44°07'25"
D = 30°12'37"
T = 76.86
L = 146.06
R = 189.66
PC STA = 125+33.36'LRE'
PT STA = 126+79.42'LRE'

EXIST R/W

126+75.00'LRE'
8.79'RT

127+00'LRE'

N44°03'24"E

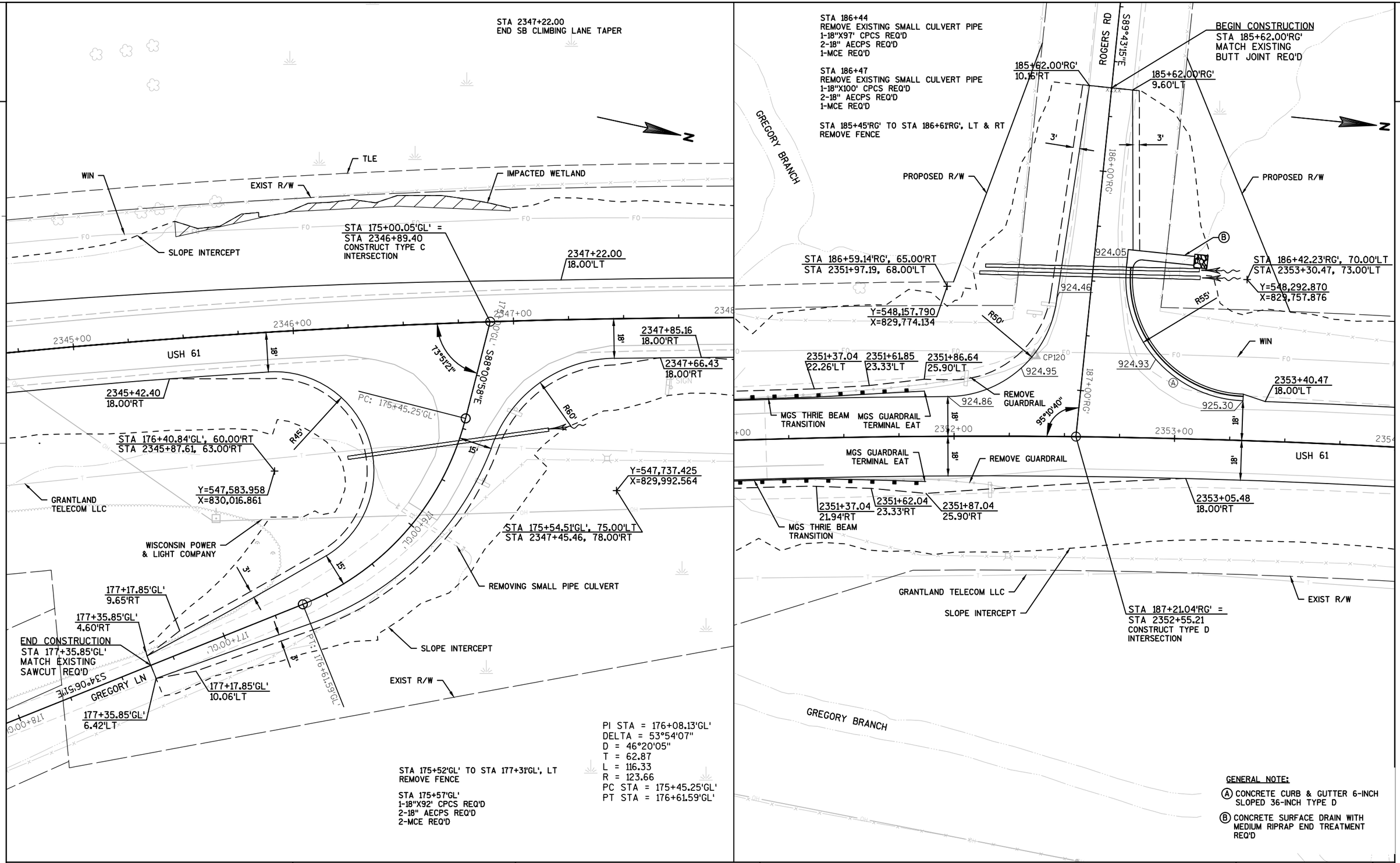
LIBERTY RIDGE RD

PC: 127+51.45'LRE'

PI STA = 128+37.58'LRE'
DELTA = 42°24'56"
D = 25°48'45"
T = 86.13
L = 164.32
R = 221.97
PC STA = 127+51.45'LRE'
PT STA = 129+15.77'LRE'

STA 125+55'LRE'
1-24"X115' CPCS REQ'D
2-24" AECPS REQ'D
2-MCE REQ'D

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - LIBERTY RIDGE RD	SHEET 23	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	INTERSECTION DETAIL - GREGORY LN, ROGERS RD	SHEET 24	E

USACOE LIAISON

KERRIE HAUSER
ARMY CORPS OF ENGINEERS
1114 SOUTH OAK STREET
LA CRESCENT, MN 55947
PHONE: 651-290-5903
EMAIL: KERRIE.J.HAUSER@USACE.ARMY.MIL

2

OLD CTH K

24" CMP

USH 61

2075

2080

2085

2090

2070

2065

2063

ENTERPRISE ST

38" EN

35" EN

EROSION MAT CLASS I TYPE A

EROSION MAT CLASS I TYPE A

SILT FENCE (SEE SDD) (TYP.)

SILT FENCE (SEE SDD) (TYP.)

MATCHLINE 2093+80

EROSION CONTROL NOTES:

PLACE SALVAGED TOPSOIL, SEED AND FERTILIZER ON SURFACES AS SHOWN ON THE TYPICAL SECTIONS. PLACE MULCH ON ANY AREAS OF SALVAGED TOPSOIL THAT IS NOT COVERED BY EROSION MAT.

DO NOT DRIVE EQUIPMENT OR STORE EQUIPMENT OR MATERIALS IN WETLANDS, WATERWAYS, OR ARCHAEOLOGICAL SITES.

WHEN INLET PROTECTION TYPE A AND TYPE D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND USE TYPE D AFTER THE INLET CASTINGS ARE IN PLACE.

PLACE SILT FENCE TWO FEET FROM THE SLOPE INTERCEPT LINE WHERE APPROPRIATE.

EROSION CONTROL LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

COMMERCIAL RD

47" CM

INDUSTRIAL DR

67" IN

SILT FENCE (SEE SDD) (TYP.)

SILT FENCE (SEE SDD) (TYP.)

INLET PROTECTION TYPE A & D

SILT FENCE (SEE SDD) (TYP.)

MATCHLINE 2093+80

MATCHLINE 2124+20

2095

2100

2105

2110

2115

2120

45" CM

57" BM

55" IN

55" BM

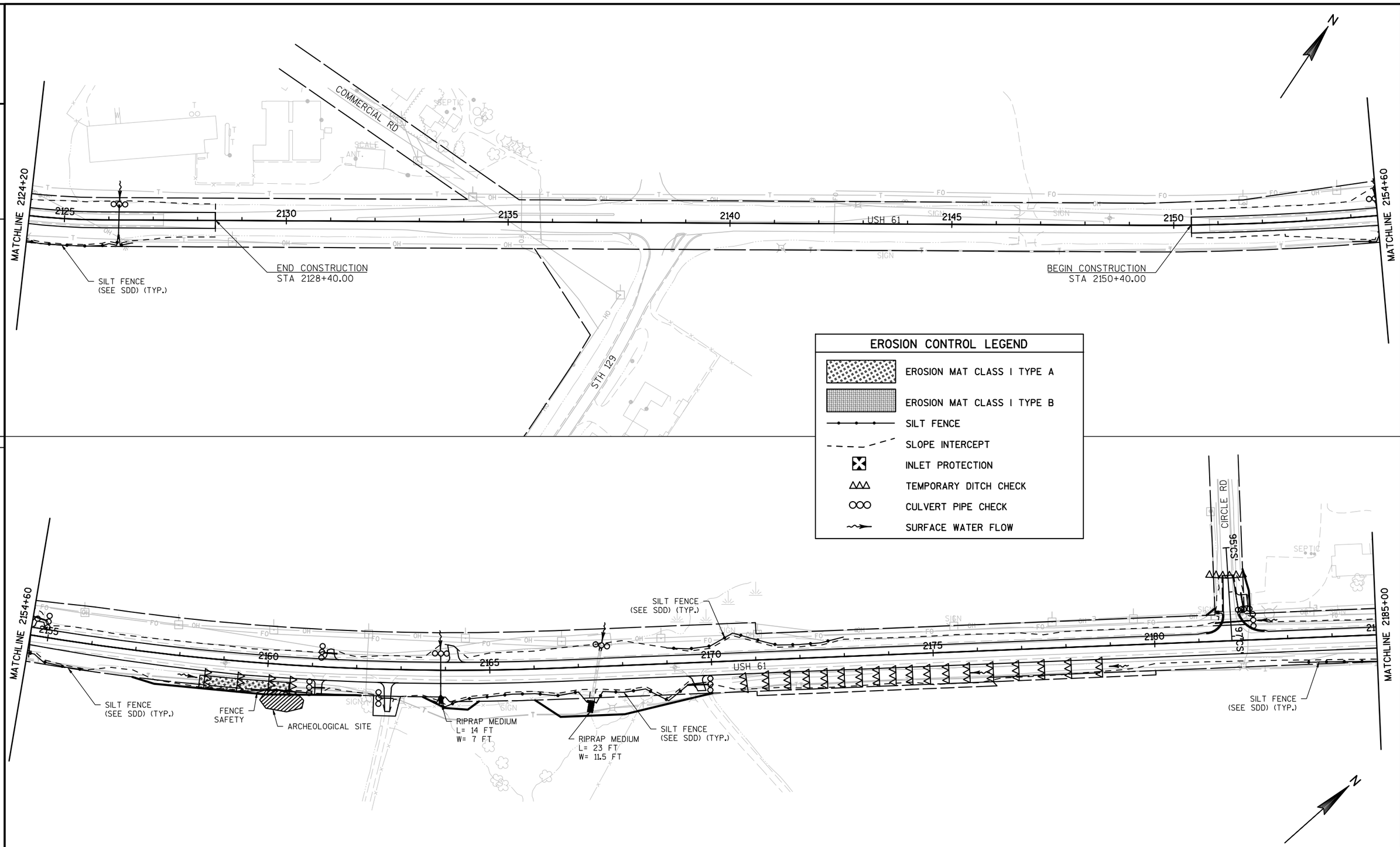
BEMIS RD

SAVE FOLDER PATH: P:\UZ\WWITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG PLOT DATE : 10/24/2016 9:41 AM PLOT BY : SEH INC LAYOUT NAME : 023201_EC PLOT SCALE : 1.0 IN = 200.0 FT

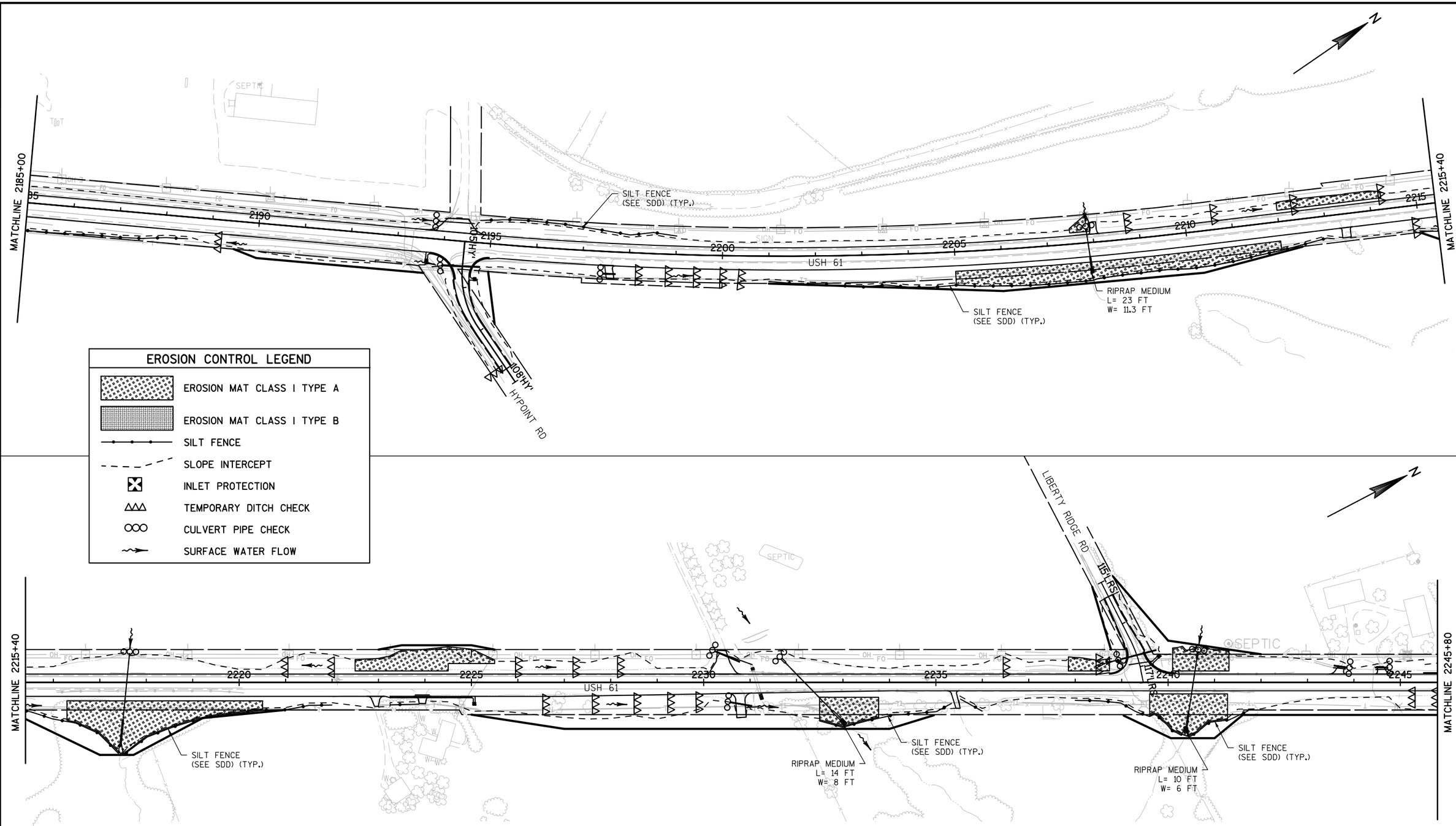
WISDOT/CADDS SHEET 42



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG | PLOT DATE : 10/24/2016 9:41 AM | PLOT BY : SEH INC | LAYOUT NAME : 023202_EC | PLOT SCALE : 1.0 IN = 200.0 FT

SAVE FOLDER PATH: P:\LIZ\W\WITSW\117740\CIVIL 3D\1650603\SHEETSPLAN



EROSION CONTROL LEGEND

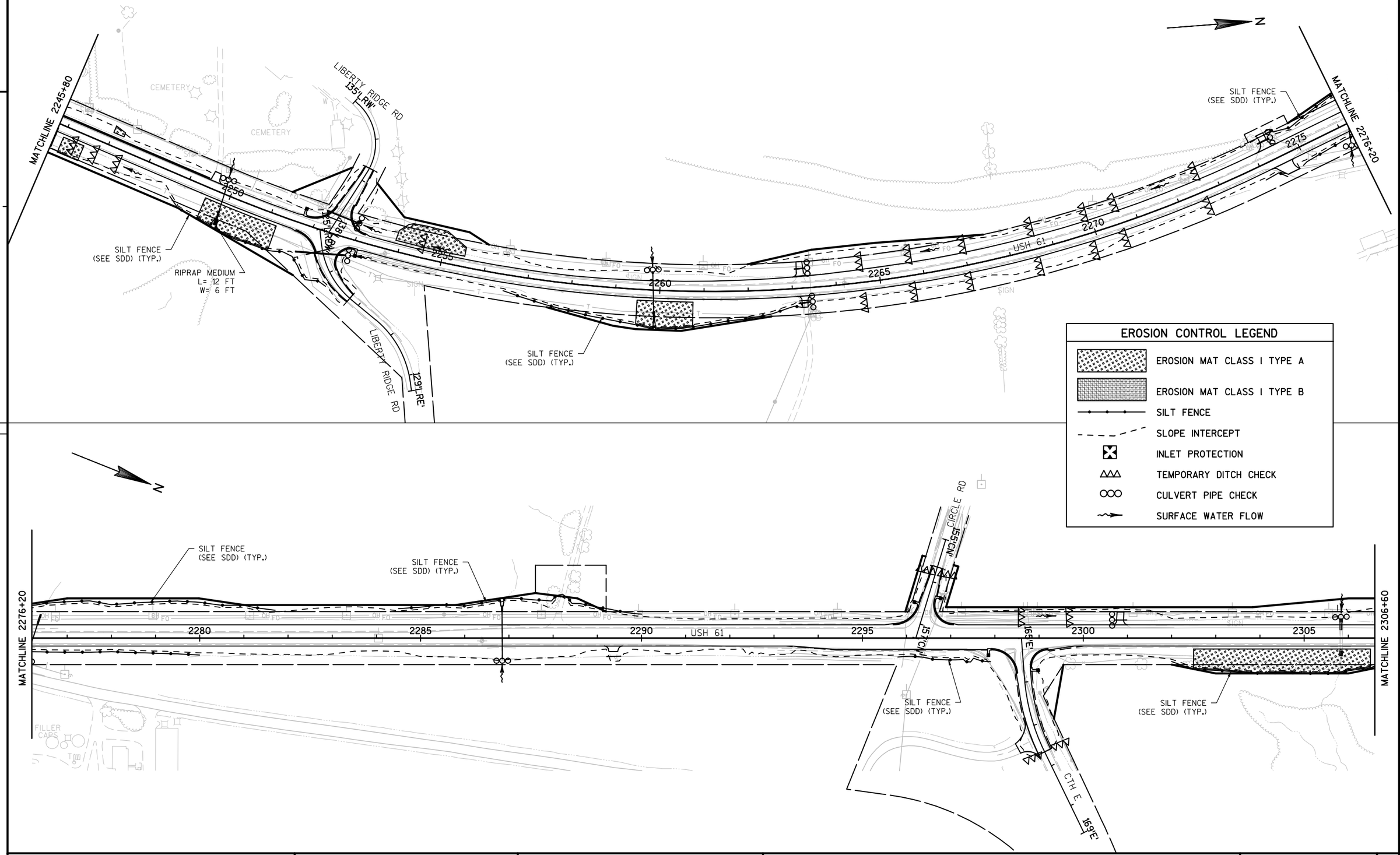
- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG | PLOT DATE : 10/24/2016 9:41 AM | PLOT BY : SEH INC | LAYOUT NAME : 023203_EC | PLOT SCALE : 1.0 IN = 200.0 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\11T740\CIVIL 3D\16500603\SHEETSPLAN



EROSION CONTROL LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

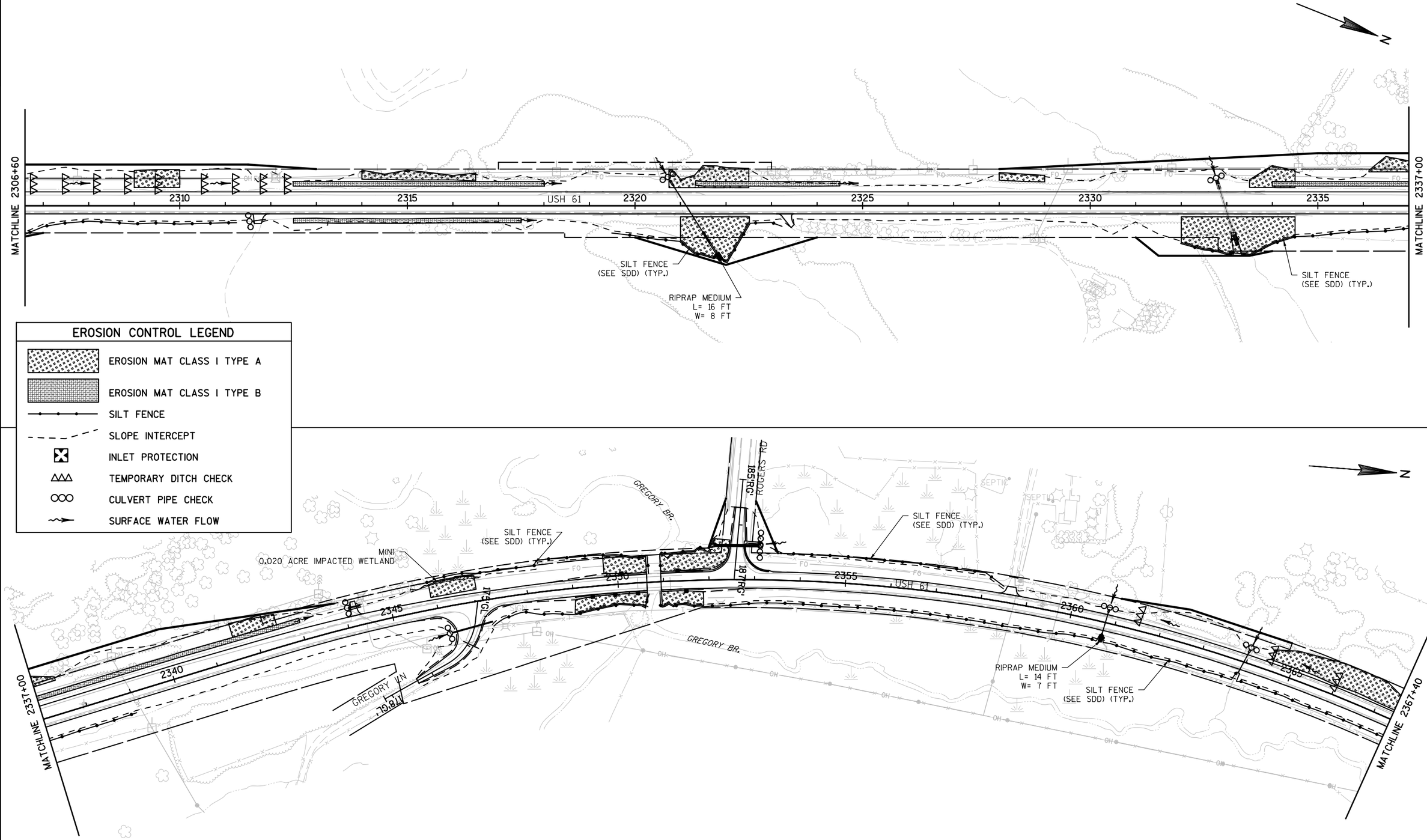
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG | PLOT DATE : 10/24/2016 9:41 AM | PLOT BY : SEH INC | LAYOUT NAME : 023204_EC | PLOT SCALE : 1.0 IN = 200.0 FT | WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\WI\MITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

2

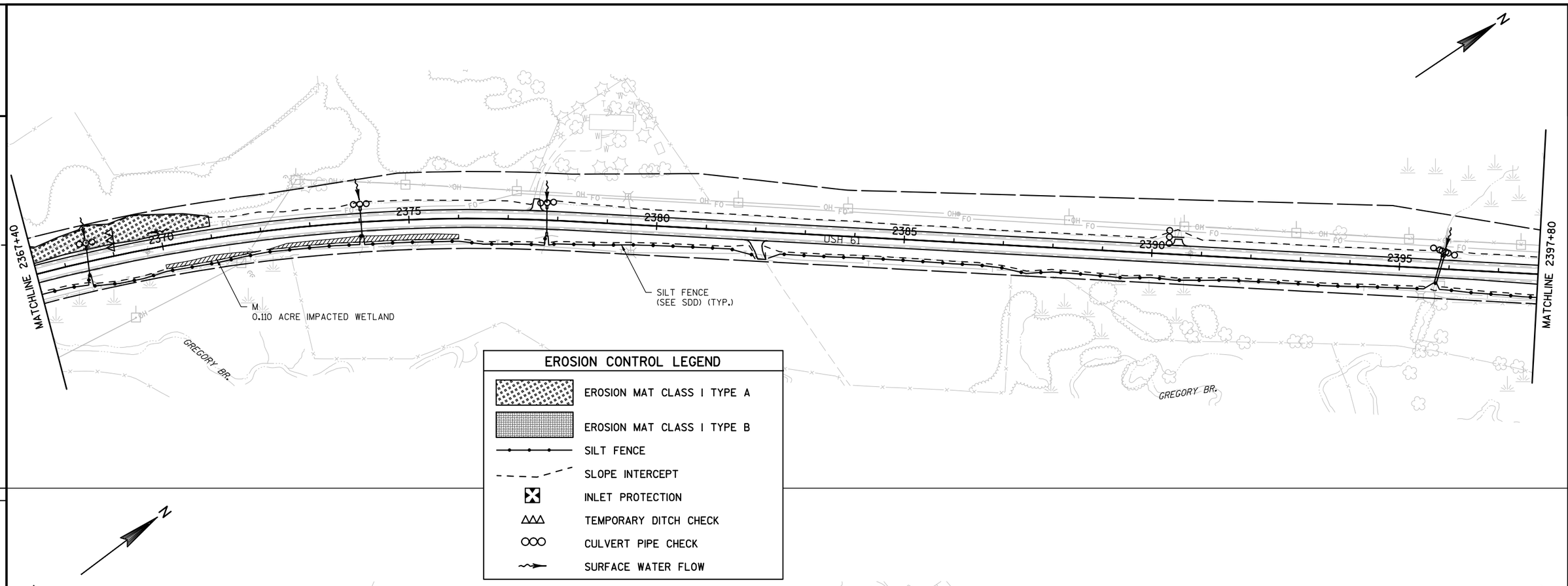
2



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

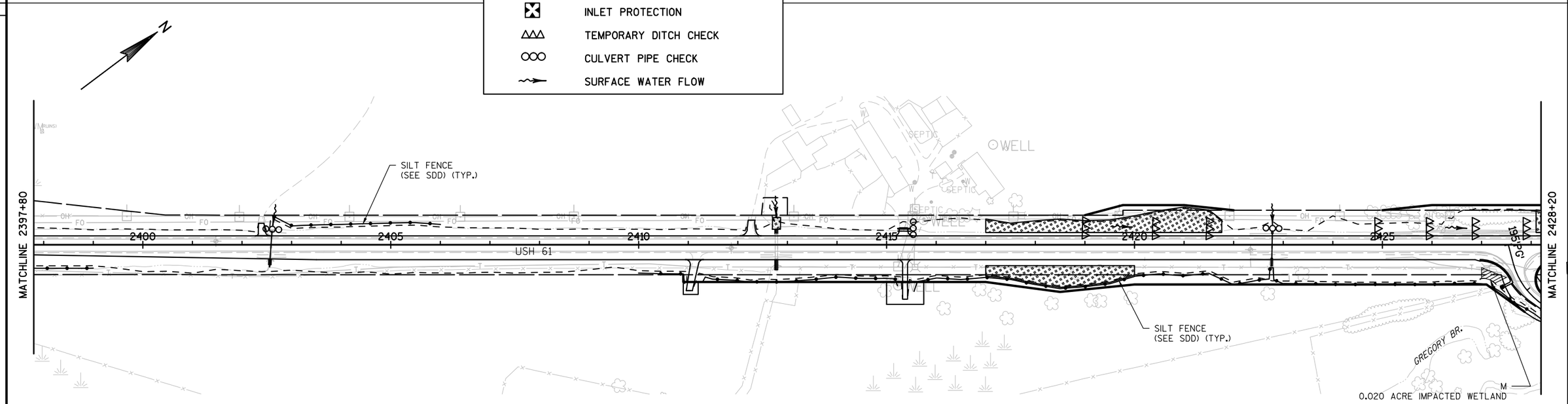
FILE NAME : 023201_EC.DWG | PLOT DATE : 10/24/2016 9:42 AM | PLOT BY : SEH INC | LAYOUT NAME : 023205_EC | PLOT SCALE : 1.0 IN = 200.0 FT | WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\WWITSW\117740\CIVIL 3D\16500603\SHEETSPLAN



EROSION CONTROL LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG | PLOT DATE : 10/24/2016 9:42 AM | PLOT BY : SEH INC | LAYOUT NAME : 023206_EC | PLOT SCALE : 1.0 IN = 200.0 FT | WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\11T740\CIVIL 3D\1650603\SHEETSPLAN

2

MATCHLINE 2428+20

MATCHLINE 2458+60

SILT FENCE
(SEE SDD) (TYP.)

2430 2435 2440 2445 2450 2455

USH 61

M
0.660 ACRE IMPACTED WETLAND

SILT FENCE
(SEE SDD) (TYP.)

197'PG'

PINE GROVE RD

GREGORY BR.

EROSION CONTROL LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

MATCHLINE 2458+60

MATCHLINE 2489+00

2460 2465 2470 2475 2480 2485

SILT FENCE
(SEE SDD) (TYP.)

RIPRAP MEDIUM
L= 12 FT
W= 9 FT

SILT FENCE
(SEE SDD) (TYP.)

SILT FENCE
(SEE SDD) (TYP.)

USH 61

SILT FENCE
(SEE SDD) (TYP.)

SILT FENCE
(SEE SDD) (TYP.)

GREGORY BR.

GREENHOUSE

SEPTIC

TANKS

SIGN

OH

FO

W

201'WL

WELLS LN

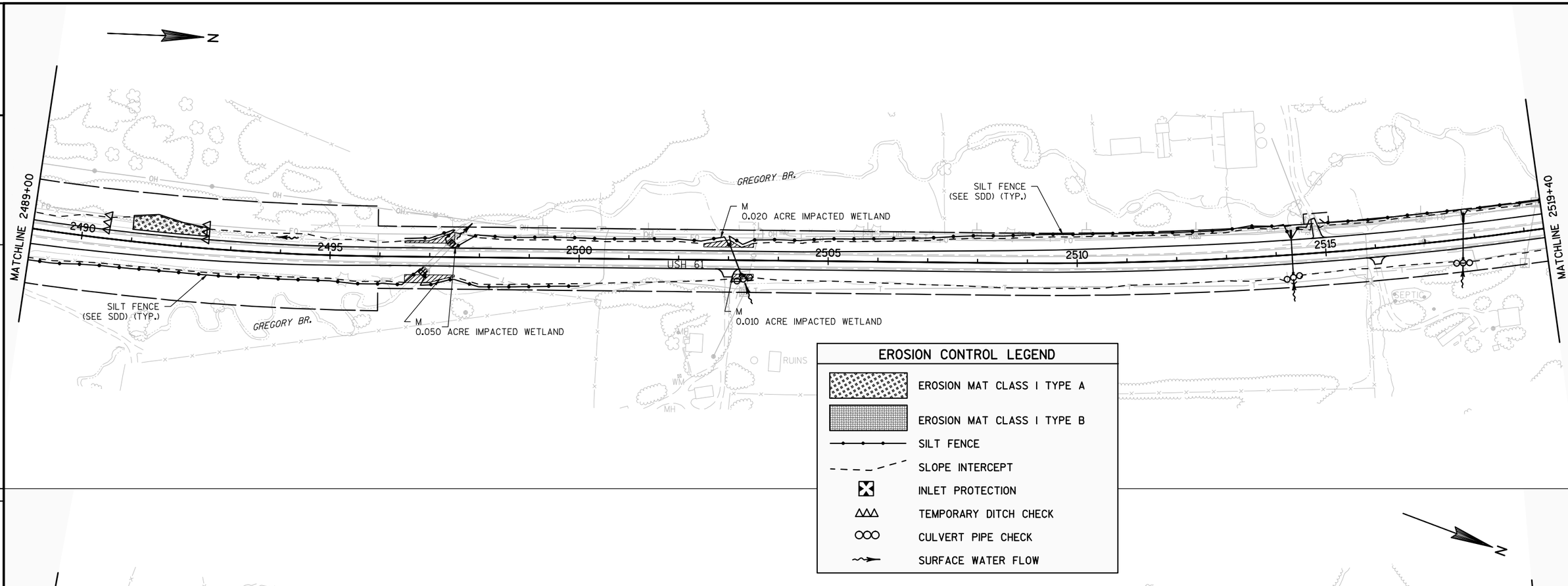
PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG PLOT DATE : 10/24/2016 9:42 AM PLOT BY : SEH INC LAYOUT NAME : 023207_EC PLOT SCALE : 1.0 IN = 200.0 FT

WISDOT/CADDS SHEET 42

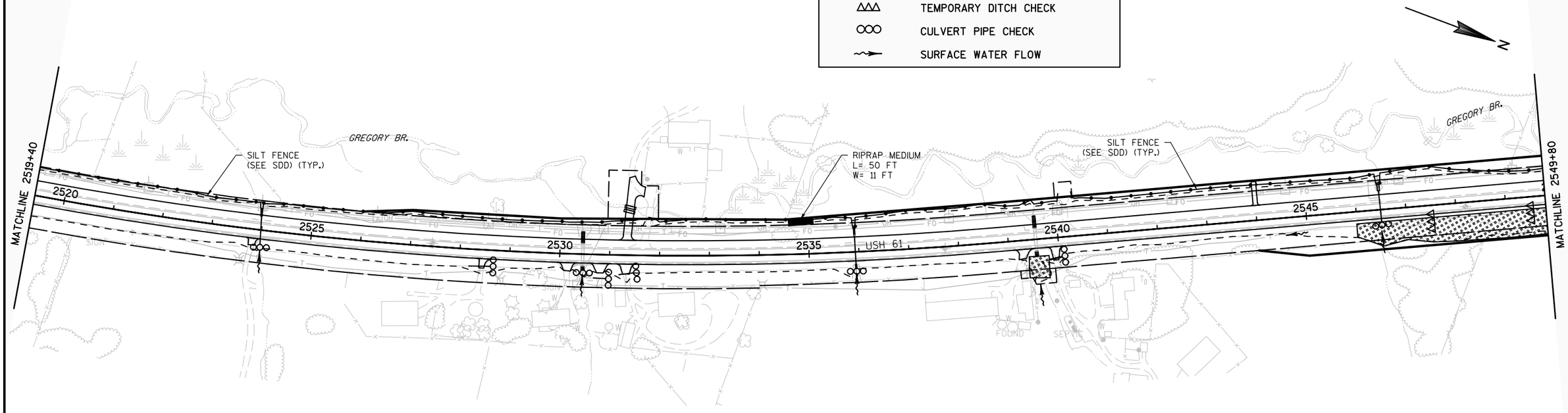
SAVE FOLDER PATH: P:\UZ\WW\TSW\117740\CIVIL 3D\1650603\SHEETSPLAN

2



EROSION CONTROL LEGEND

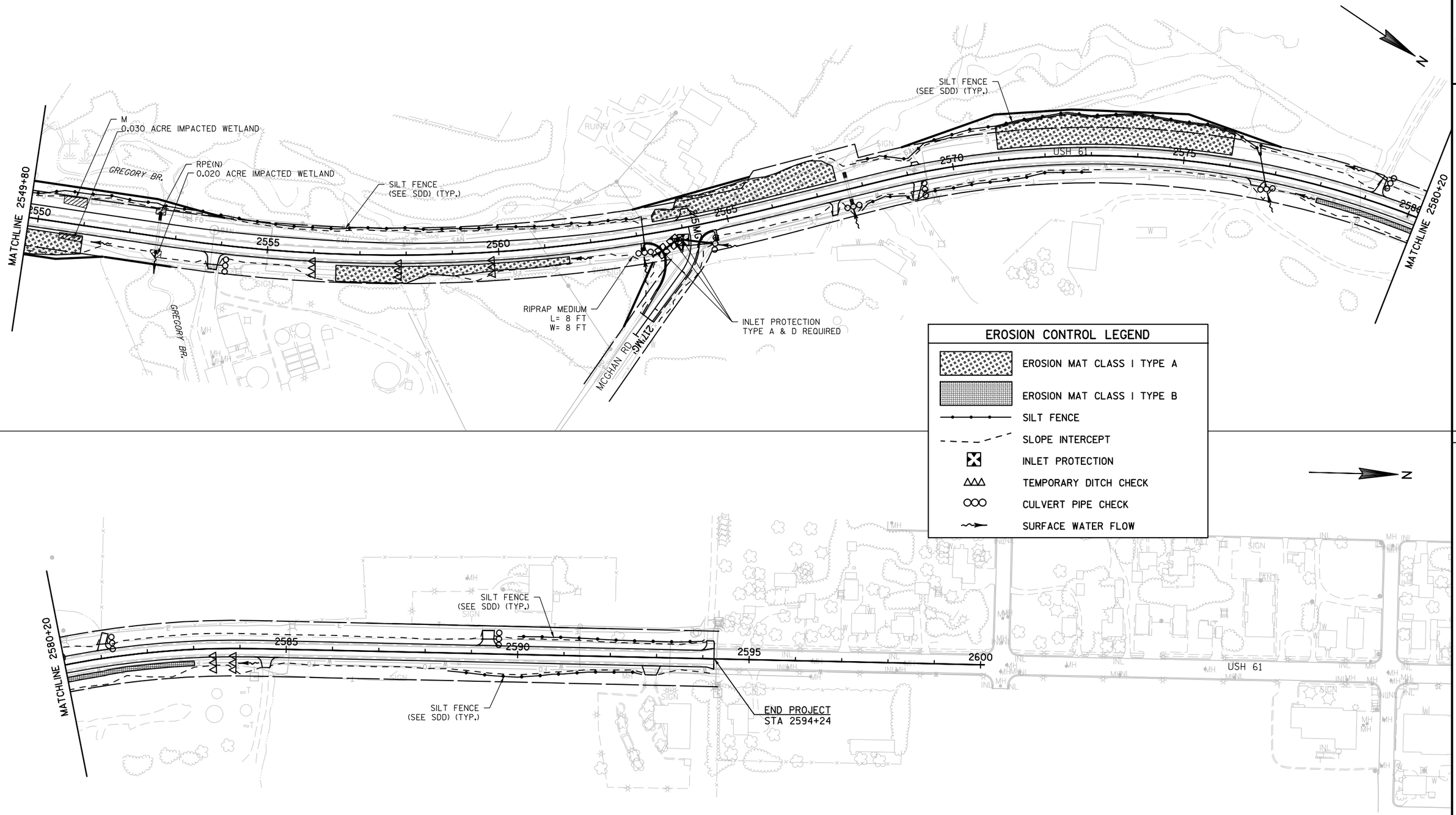
- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG PLOT DATE : 12/9/2016 9:56 AM PLOT BY : SEH INC LAYOUT NAME : 023208_EC PLOT SCALE : 1.0 IN = 200.0 FT WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

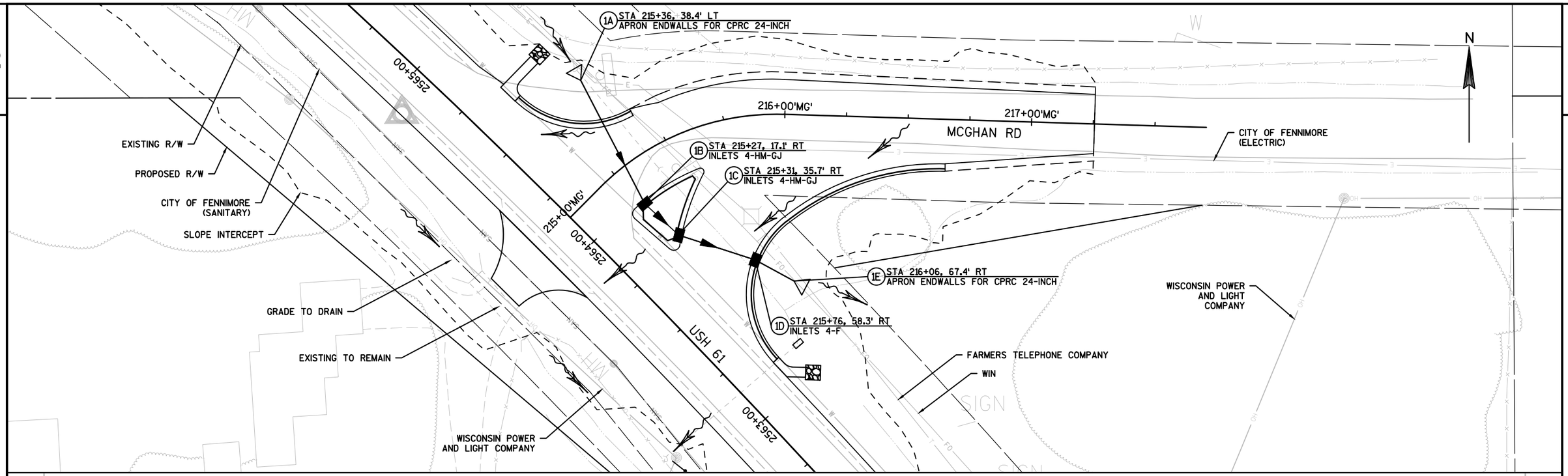


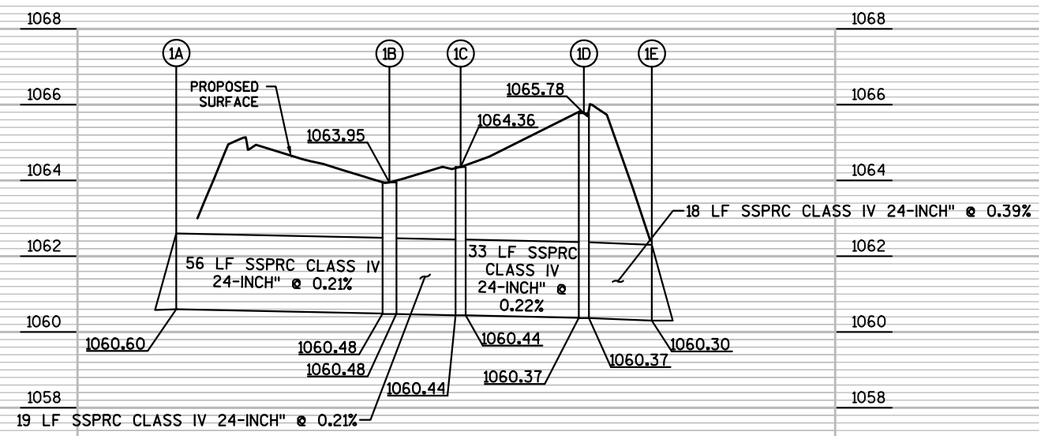
2

SAVE FOLDER PATH: P:\DZ\WV\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	EROSION CONTROL	SHEET	E

FILE NAME : 023201_EC.DWG PLOT DATE : 10/24/2016 9:42 AM PLOT BY : SEH INC LAYOUT NAME : 023209_EC PLOT SCALE : 1.0 IN = 200.0 FT





PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	STORM SEWER	SHEET 34	E

* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

SPEED LIMIT 25 — R2-1 24"X30" — 01-01 — R01-01
W1-1L 36"X36" — 25 M.P.H. W13-1 24"x24" — 01-02 — R01-02
REMOVE — 25 M.P.H. REMOVE
SOUTH 61 REMOVE — R01-03
SOUTH 61 M3-3 M1-4 — J4-1 24"X36" — 01-03 — R01-04
61 M1-4 M6-4 — J12-1 24"X45" — 01-04
STOP — R1-1 30"X30" — 01-05
COUNTY K REMOVE — R01-05
COUNTY K M1-5A M6-1 — J12-1 24"X45" — 01-06 — R01-06
SPEED LIMIT 25 REMOVE — R01-07
LANCASTER POPULATION 3868 REMOVE
SPEED LIMIT 40 REMOVE — R01-08
SPEED LIMIT 45 — R2-1 24"X30" — 01-07
REMOVE — R01-09
SPEED LIMIT 45 — R2-1 24"X30" — 01-08 — R01-11
SPEED LIMIT 25 — W3-5 36"X36" — 01-10
JCT COUNTY K M2-1 M1-5A — J1-1 24"X39" — 01-09 — R01-10
DO NOT ENTER REMOVE — R01-12
CANOPY REMOVE — R01-13
COUNTY K REMOVE — R01-14
COUNTY K M1-5A M6-1 — J12-1 24"X45" — 01-11
STOP REMOVE — R01-15 — R01-16
W1-7 48"X24" — 01-12
REMOVE — R01-17
SPEED LIMIT 45 — R2-1 24"X30" — 01-13 — 01-14
NORTH 61 M3-1 M1-4 — J4-1 24"X36"
NORTH 61 REMOVE — R01-18
SPEED LIMIT 40 REMOVE — R01-19 — R01-20
COUNTY K REMOVE — R01-21
JCT COUNTY K M2-1 M1-5A — J1-1 24"X39" — 01-15
STOP — R1-1 30"X30" — 01-16
STOP REMOVE — R01-22
SPEED LIMIT 50 — R01-23
NO PASSING ZONE REMOVE — R01-24
* NO PASSING ZONE — W14-3 48"X36" — 01-17
SPEED LIMIT 45 — R2-1 24"X30" — 01-18
SPEED LIMIT 50 REMOVE — R01-25
PASSING LANE AHEAD 1 MILE — R4-51 36"X48" — 01-25
STOP REMOVE — R01-26
STOP — R1-1 30"X30" — 01-19
W14-3 48"X36" — 01-20
NO PASSING ZONE REMOVE — R01-27
SPEED LIMIT 45 — R2-1 24"X30" — 01-21
SPEED LIMIT 50 REMOVE — R01-28
STOP — R1-1 30"X30" — 01-22
STOP REMOVE — R01-29
SPEED LIMIT 50 REMOVE — R01-30
SPEED LIMIT 45 — R2-1 24"X30" — 01-23
Lancaster POPULATION 3868 — I2-3 66"X24" — 01-24
SPEED LIMIT 45 — R2-1 24"X30" — 01-26
SPEED LIMIT 50 REMOVE — R01-33
STOP REMOVE — R01-34
STOP — R1-1 30"X30" — 01-26
REMOVE — R01-35
SPEED LIMIT 45 — R2-1 24"X30" — 01-27
SPEED LIMIT 55 — R2-1 24"X30" — 01-28
SPEED LIMIT 55 REMOVE — R01-36

MATCHLINE 2093+80.00
MATCHLINE 2224+20.00
OLD CTH K
CTH K
USH 61
COMMERCIAL RD
INDUSTRIAL DR
ENTERPRISE ST
BEMIS RD
Commercial Rd
2063
2065
2070
2075
2080
2085
2090
2095
2100
2105
2110
2115
2120
471CM
25CM
576M
557M
671M
655M

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- x00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 01 OF 09	SHEET	E

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 023201_PS.DWG
PLOT DATE : 10/24/2016 9:54 AM
PLOT BY : SEH INC
LAYOUT NAME : 023201_PS
PLOT SCALE: 1.0 IN = 200.0 FT
WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

EXISTING SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON POST(S)

x00-00 DENOTES SIGN NUMBER
- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

MATCHLINE 2124+20.00

02-09 W3-5 36"X36" SPEED LIMIT 45

R02-06 SPEED LIMIT 50

DO NOT ENTER

COMMERCIAL RD

WRONG WAY

SOUTH 61

SOUTH SOUTH 129 61

DO NOT ENTER

WRONG WAY

SOUTH SOUTH 129 61

Commercial Rd

MATCHLINE 2154+60

2125 2130 2135 2140 USH 61 2145 2150

02-01 PASSING LANE AHEAD 1/2 MILE R4-51 36"X48"

JCT 129

NORTH SOUTH 61 129

Commercial Rd

WRONG WAY

NORTH SOUTH 61 129

STH 129

DO NOT ENTER

NORTH 61

ADOPT A HIGHWAY SPONSOR GRANT COUNTY 4-H JUNIOR LEADER

WRONG WAY

DO NOT ENTER

02-02 SLOWER TRAFFIC KEEP RIGHT R4-3 24"X30"

EXISTING SIGNS BETWEEN STA 2127+50 - STA 2150+00 SHOWN FOR INFORMATIONAL PURPOSES ONLY

* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

MATCHLINE 2154+60

02-03 DO NOT PASS** R4-1 24"X30"

R02-01 NO PASSING ZONE REMOVE

DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE R4-53 54"X54"

02-04

R02-02 STOP REMOVE

02-05 STOP R1-1 30"X30"

CIRCLE RD

95 CS

SEPTIC

2155 2160 2165 2170 USH 61 2175 2180

ARCHEOLOGICAL SITE

R02-03 NO PASSING ZONE REMOVE

02-06 * NO PASSING ZONE W14-3 48"X36"

02-07 W2-2

R02-04 REMOVE

R02-05 Circle Rd REMOVE

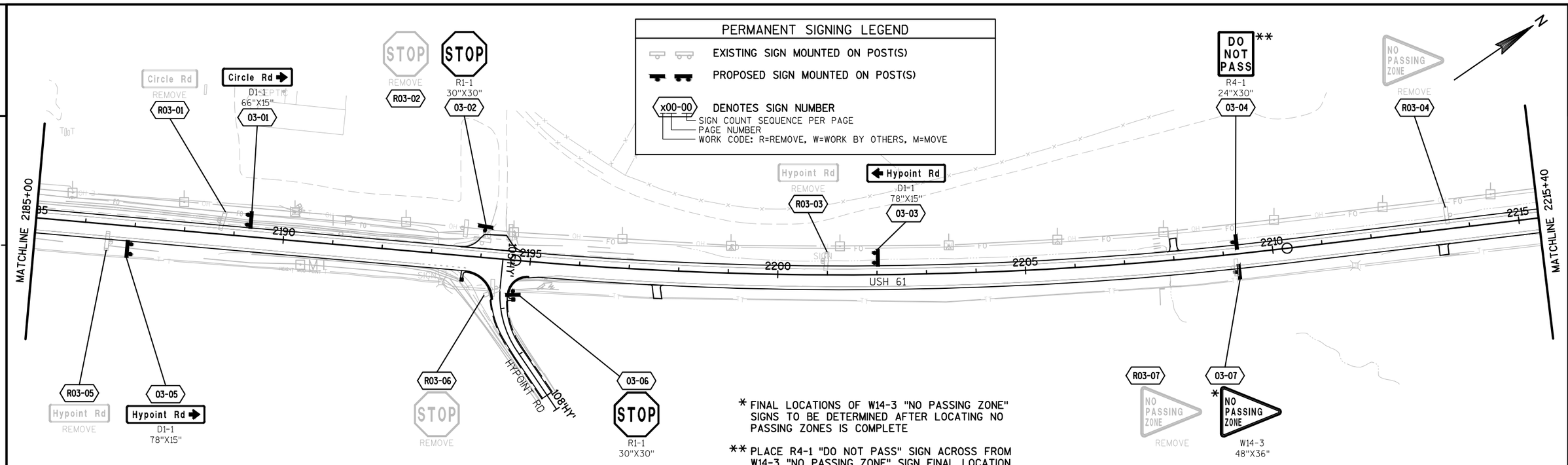
02-08 Circle Rd D1-1 66"X15"

MATCHLINE 2185+00

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 02 OF 09	SHEET	E

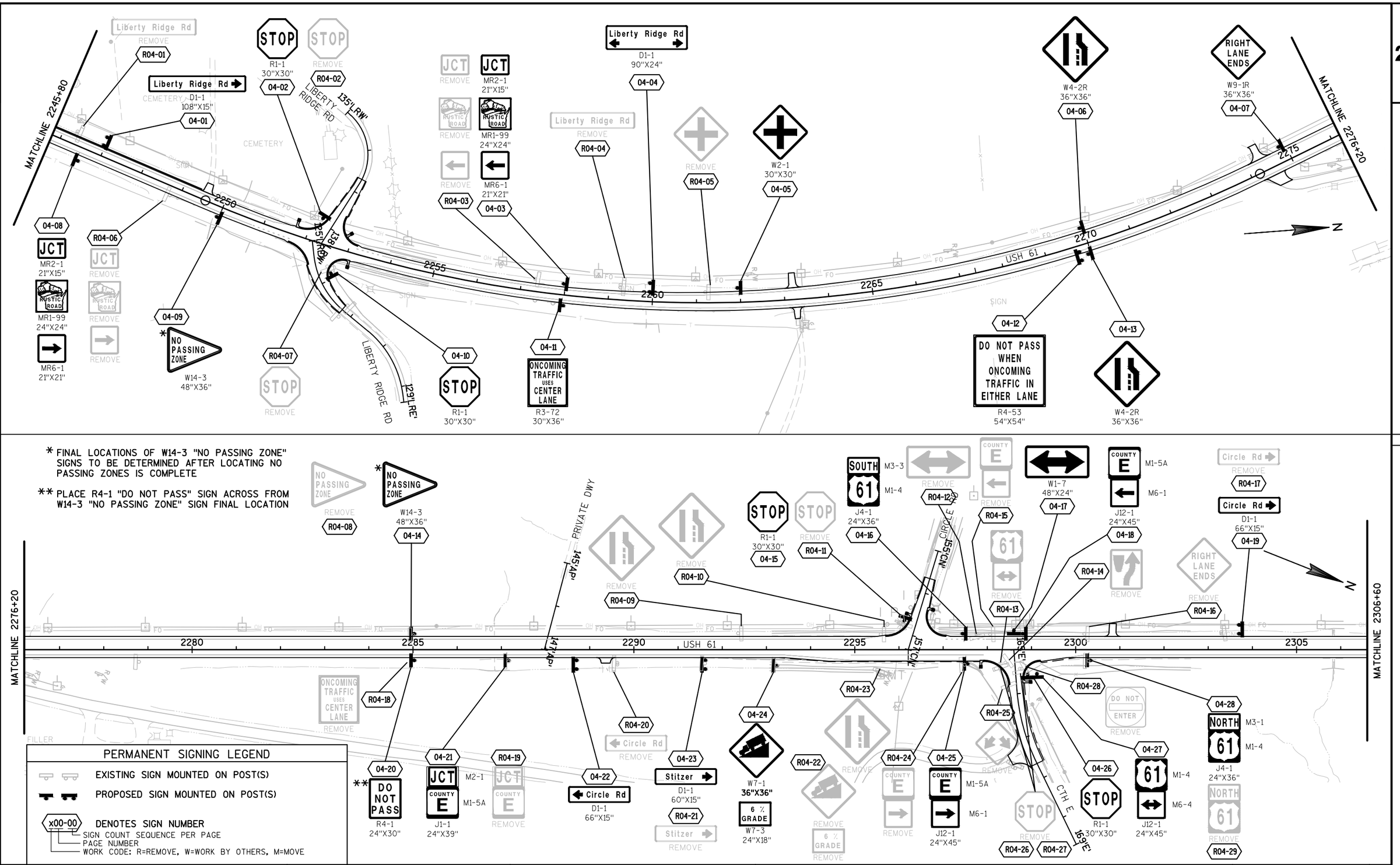
FILE NAME : 023201_PS.DWG PLOT DATE : 10/24/2016 9:54 AM PLOT BY : SEH INC LAYOUT NAME : 023202_PS PLOT SCALE: 1.0 IN = 200.0 FT

SAVE FOLDER PATH: P:\LJZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 03 OF 09	SHEET	E

SAVE FOLDER PATH: P:\LZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 023201_PS.DWG
PLOT DATE : 10/24/2016 9:54 AM
PLOT BY : SEH INC
LAYOUT NAME : 023203_PS
PLOT SCALE: 1.0 IN = 200.0 FT
WISDOT/CADDS SHEET 42



* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- x00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 04 OF 09	SHEET	E

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

FILE NAME : 023201_PS.DWG | PLOT DATE : 10/24/2016 9:54 AM | PLOT BY : SEH INC | LAYOUT NAME : 023204_PS | PLOT SCALE: 1.0 IN = 200.0 FT

WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- x00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

MATCHLINE 2306+60

JCT COUNTY E M2-1 M1-5A
J1-1 24"X39"
05-01

JCT COUNTY E
REMOVE
R05-01

2310 2315 USH 61 2320 2325 2330 2335

MATCHLINE 2337+00

05-02
DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE
R4-53 54"X54"

R05-02
DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE
REMOVE

SLOWER TRAFFIC KEEP RIGHT
REMOVE
R05-03

SLOWER TRAFFIC KEEP RIGHT
R4-3 24"X30"
05-03

REMOVE W5-52L 12"X36"
R05-04 05-04

REMOVE W5-52R 12"X36"
R05-05 05-05

ADOPT A HIGHWAY SPONSOR STITZER GO-GETTERS 4-H CLUB
I55-56 30"X36"
05-06

ADOPT A HIGHWAY SPONSOR STITZER GO-GETTERS 4-H CLUB
REMOVE
R05-06

185RC ROGERS RD

05-07 STOP
R1-1 30"X30"

R05-07 STOP
REMOVE

SEPTIC

Rogers Rd
REMOVE
R05-08

Rogers Rd
D1-1 72"X15"
05-08

2345 2350 2355 USH 61 2360

185RC

GREGORY LN

GREGORY BR.

2340 2365

MATCHLINE 2337+00

MATCHLINE 2367+40

R05-11 05-12
REMOVE W5-52R 12"X36"

05-13 R05-13
W5-52L 12"X36" REMOVE

05-15
* NO PASSING ZONE
W14-3 48"X36"

05-09
PASSING LANE AHEAD 1 MILE
R4-51 36"X48"

05-10
Rogers Rd
D1-1 72"X15"

R05-09
STOP
REMOVE

05-11
STOP
R1-1 30"X30"

R05-10
Rogers Rd
REMOVE

NO PASSING ZONE
REMOVE

R05-12
GREGORY BRANCH
REMOVE

R05-14
ADOPT A HIGHWAY SPONSOR COMMUNITY CORRECTIONS
REMOVE

05-14
ADOPT A HIGHWAY SPONSOR COMMUNITY CORRECTIONS
I55-56 30"X36"

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 05 OF 09	SHEET	E

SAVE FOLDER PATH: P:\DZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 023201_PS.DWG
PLOT DATE : 10/24/2016 9:54 AM
PLOT BY : SEH INC
LAYOUT NAME : 023205_PS
PLOT SCALE: 1.0 IN = 200.0 FT
WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- x00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

MATCHLINE 2367+40

PASSING LANE AHEAD 1/2 MILE
R4-51
36"X48"
06-01

*NO PASSING ZONE
W14-3
48"X36"
06-02

NO PASSING ZONE
REMOVE
R06-01

*NO PASSING ZONE
W14-3
48"X36"
06-03

2370 2375 2380 2385 2390 2395

USH 61

06-04
PASSING LANE AHEAD 1/2 MILE
R4-51
36"X48"

06-05
SLOWER TRAFFIC KEEP RIGHT
R4-3
24"X30"

R06-02
NO PASSING ZONE
REMOVE

06-06
*NO PASSING ZONE
W14-3
48"X36"

MATCHLINE 2397+80

* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

MATCHLINE 2397+80

PASSING LANE AHEAD 1 MILE
R4-51
36"X48"
06-07

NO PASSING ZONE
REMOVE
R06-03

DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE
R4-53
54"X54"
06-08

2400 2405 2410 2415 2420 2425

USH 61

06-09
Pine Grove Rd
D1-1
96"X15"

Pine Grove Rd
REMOVE
R06-04

R06-05
STOP
REMOVE

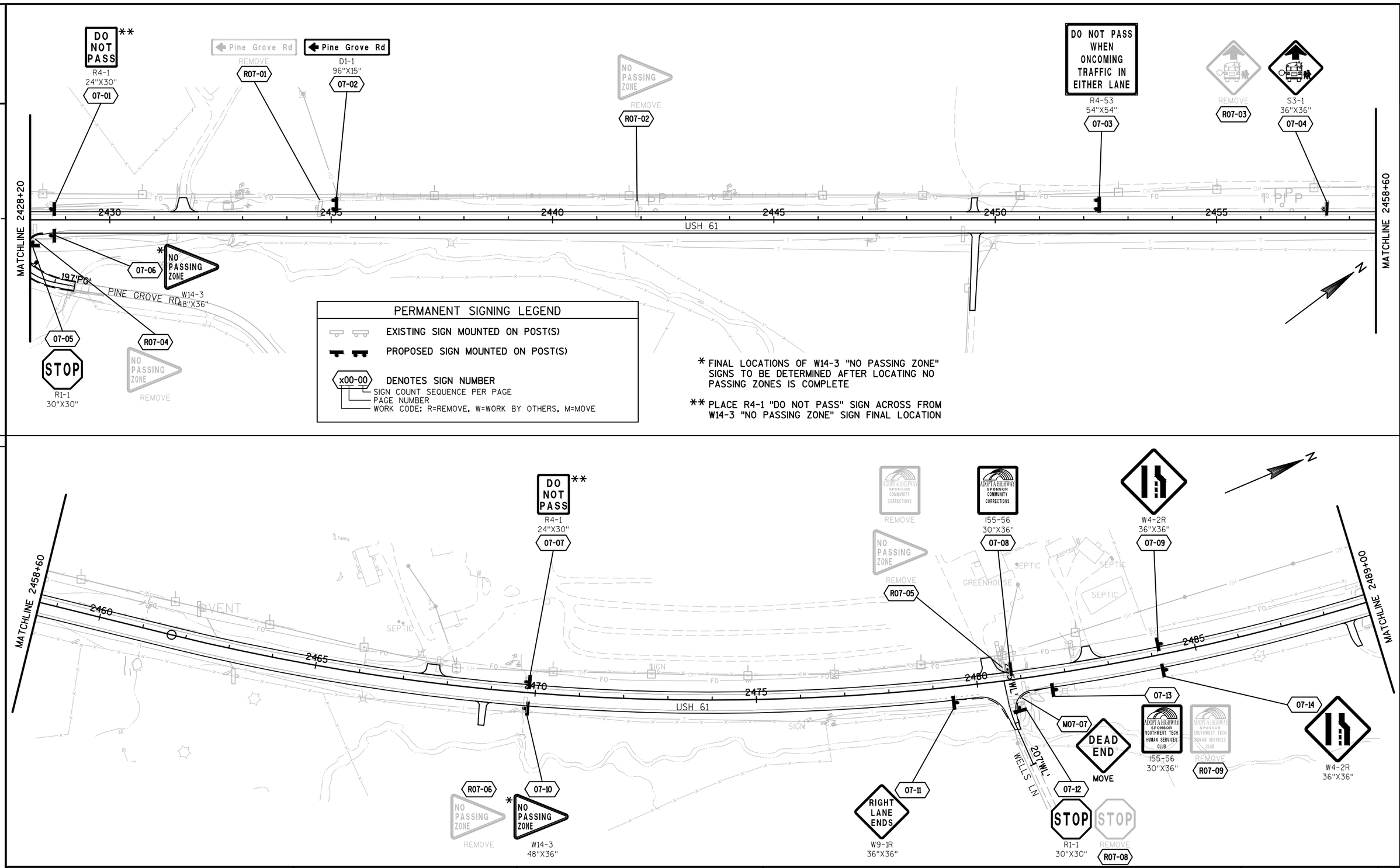
MATCHLINE 2428+20

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 06 OF 09	SHEET	E

FILE NAME : 023201_PS.DWG | PLOT DATE : 10/24/2016 9:54 AM | PLOT BY : SEH INC | LAYOUT NAME : 023206_PS | PLOT SCALE: 1.0 IN = 200.0 FT

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

WISDOT/CADDS SHEET 42



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 07 OF 09	SHEET	E

SAVE FOLDER PATH: P:\LJZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN
FILE NAME : 023201_PS.DWG
PLOT DATE : 10/24/2016 9:55 AM
PLOT BY : SEH INC
LAYOUT NAME : 023207_PS
PLOT SCALE: 1.0 IN = 200.0 FT
WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

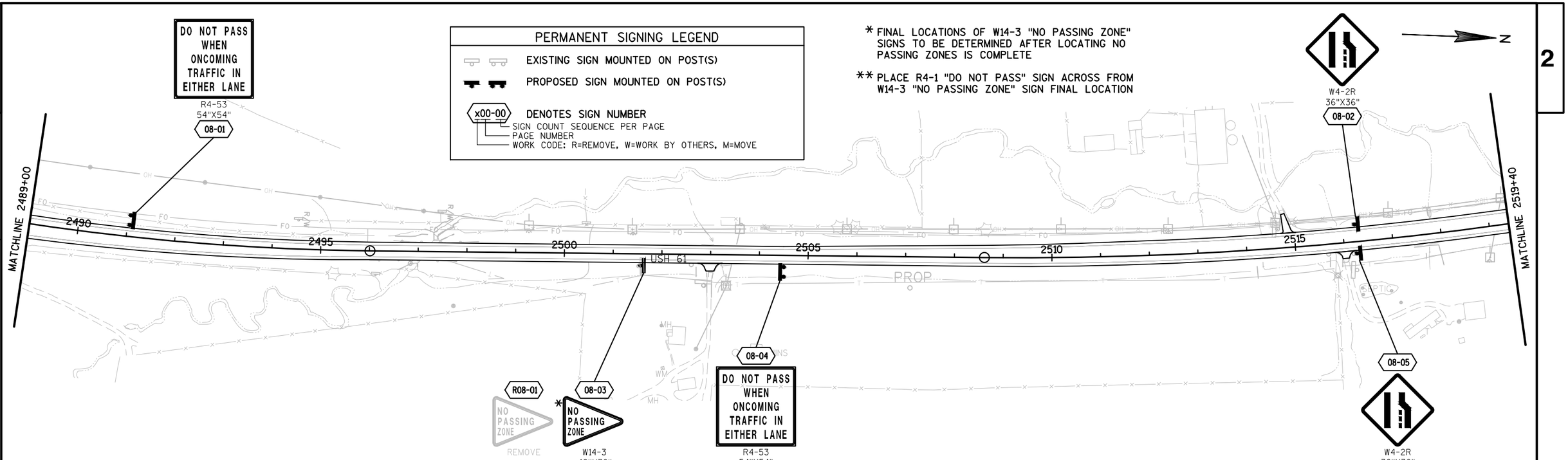
EXISTING SIGN MOUNTED ON POST(S)

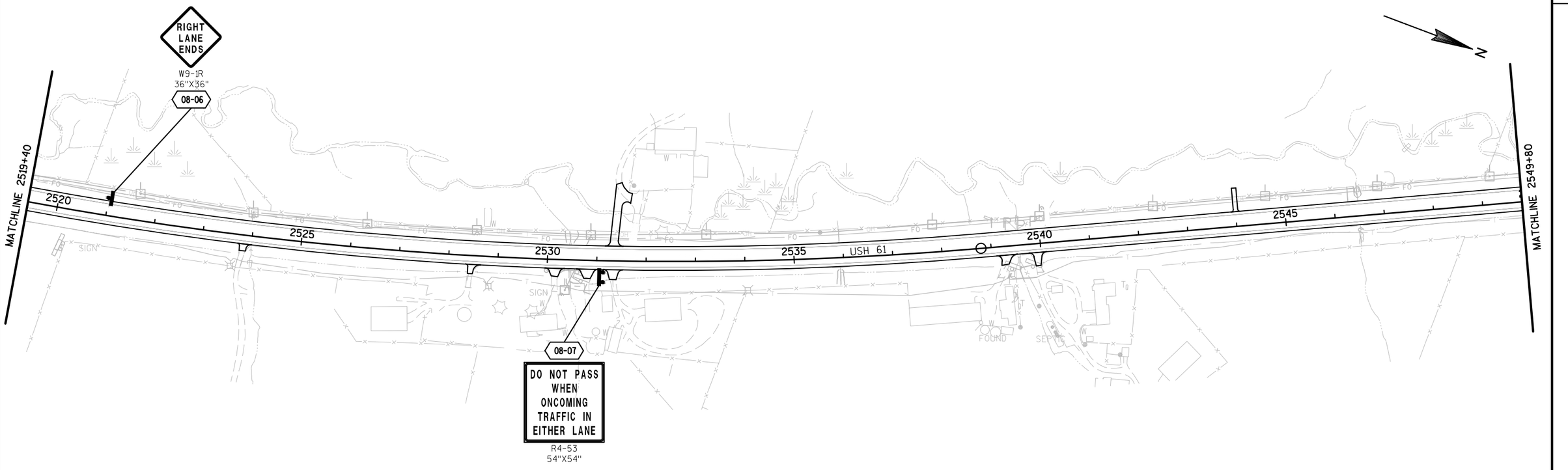
PROPOSED SIGN MOUNTED ON POST(S)

x00-00 DENOTES SIGN NUMBER
- SIGN COUNT SEQUENCE PER PAGE
- PAGE NUMBER
- WORK CODE: R=REMOVE, W=WORK BY OTHERS, M=MOVE

* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETE

** PLACE R4-1 "DO NOT PASS" SIGN ACROSS FROM W14-3 "NO PASSING ZONE" SIGN FINAL LOCATION

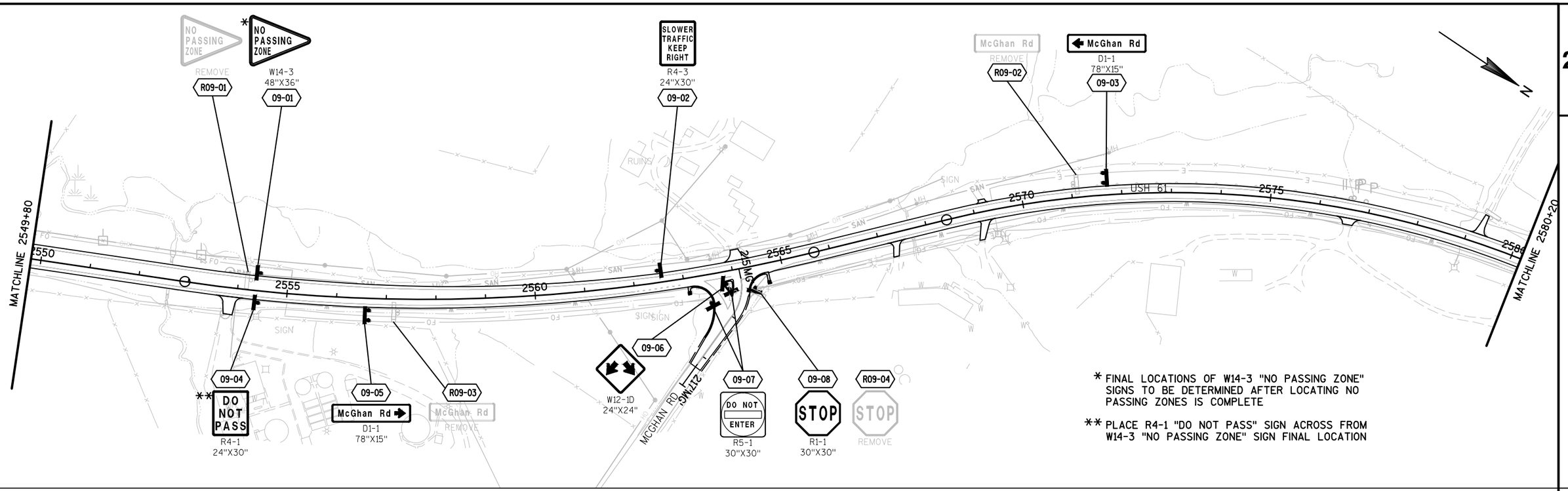




PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING PAGE 08 OF 09	SHEET	E

FILE NAME : 023201_PS.DWG | PLOT DATE : 10/24/2016 9:55 AM | PLOT BY : SEH INC | LAYOUT NAME : 023208_PS | PLOT SCALE: 1.0 IN = 200.0 FT | WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

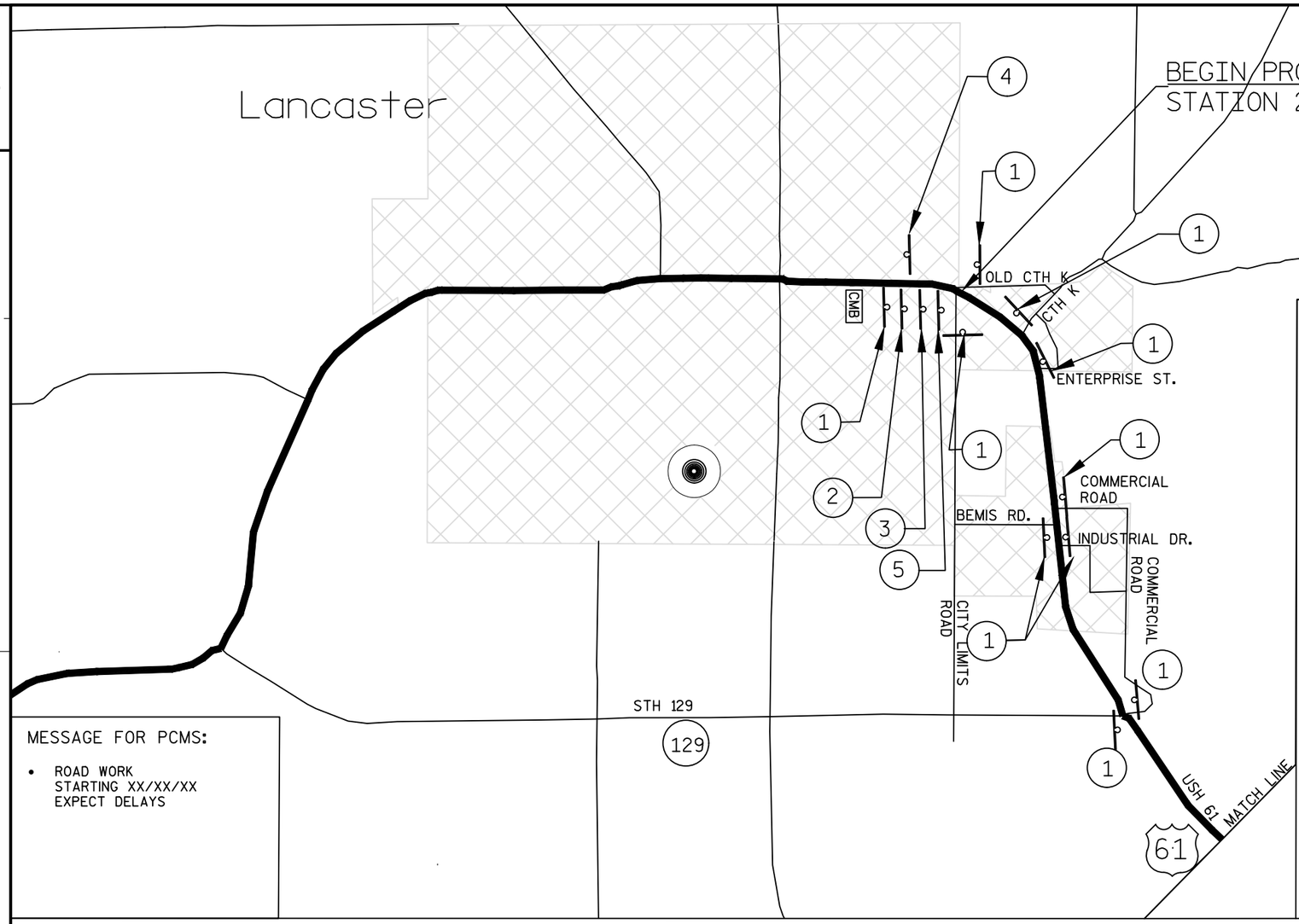


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PERMANENT SIGNING	PAGE 09 OF 09	SHEET	E

FILE NAME : 023201_PS.DWG PLOT DATE : 10/24/2016 9:55 AM PLOT BY : SEH INC LAYOUT NAME : 023209_PS PLOT SCALE: 1.0 IN = 200.0 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN



MESSAGE FOR PCMS:

- ROAD WORK
  STARTING XX/XX/XX
  EXPECT DELAYS

GENERAL NOTES FOR TRAFFIC CONTROL

ALL SIGN LOCATIONS ARE APPROXIMATE, THE ACTUAL LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION, ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.

TEMPORARY OR PERMANENT SIGNS WHICH CONFLICT WITH THE STAGED TRAFFIC CONTROL PLAN SHALL BE REMOVED OR COVERED WHILE IN CONFLICT AND REINSTALLED OR UNCOVERED WHEN NO LONGER IN CONFLICT.

EXISTING TRAFFIC SIGNS MAY REQUIRE RELOCATION DURING STAGES OF CONSTRUCTION AND SHALL BE LOCATED AS REQUIRED BY THE ENGINEER IN THE FIELD AND SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL ITEM.

ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.

"WO" SERIES SIGNS ARE "W" SERIES EXCEPT THE BACKGROUND IS ORANGE.

DETAILS FOR MAINTENANCE OF TRAFFIC THROUGH MINOR INTERSECTIONS ARE NOT SHOWN.

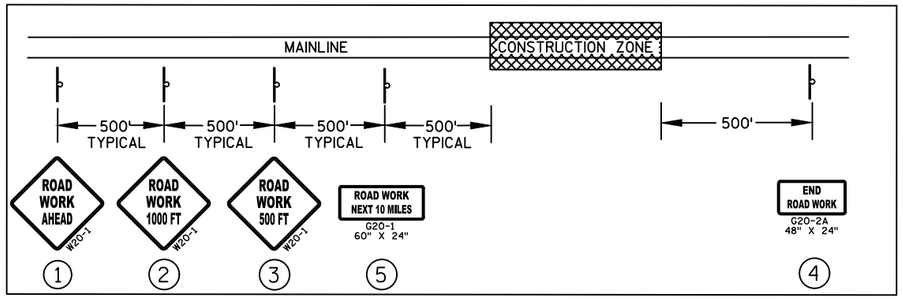
LOCAL ACCESS AND ACCESS TO ALL PRIVATE PROPERTY ALONG THE CORRIDOR SHALL BE MAINTAINED AT ALL TIMES.

TYPE III BARRICADES MAY BE SUBSTITUTED FOR POST MOUNTED SIGNS IN SITUATIONS WHERE SIGN LOCATIONS ARE CONTINUALLY MOVING. (TEMPORARY SIGN SUPPORT MAY ALSO BE USED.)

DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

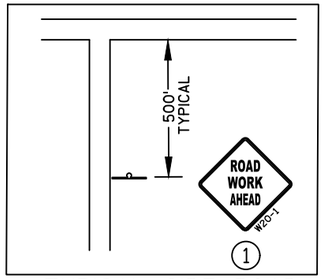
EQUIPMENT AND MATERIALS SHALL BE STORED OUTSIDE THE CLEAR ZONE AND SHALL BE PLACED SO AS TO NOT OBSTRUCT SIGHT DISTANCE FOR VEHICLES ALONG THE ROADWAY AND ENTERING THE ROAD FROM DRIVEWAYS AND SIDE STREETS.

PASSING LANES SHALL REMAIN CLOSED DURING CONSTRUCTION.



NOTE: APPLICABLE TO BOTH DIRECTIONS

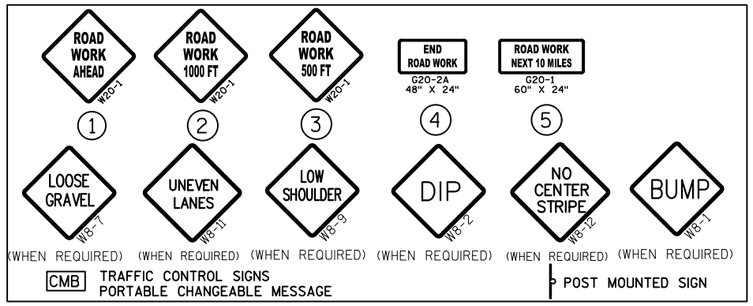
MAINLINE SIGN LAYOUT



TYPICAL SIDE ROAD SIGN LAYOUT

NOTE: SIGN SPACING FROM INTERSECTION MAY BE REDUCED WITH APPROVAL OF THE ENGINEER IF EXISTING POSTED SPEED LIMIT IS LESS THAN 45 MPH.

SIGN LEGEND



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: TRAFFIC CONTROL	SHEET 44 E

2

2

MATCH LINE

CIRCLE RD.

HYPOINT RD.

LIBERTY RIDGE RD.

CIRCLE RD.

ROGERS RD.

GREGORY LN.

USH 61

61

MATCH LINE

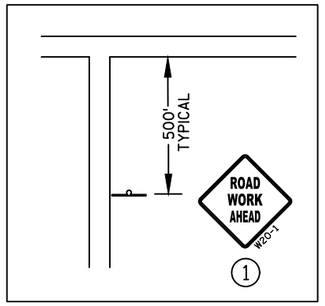
N

LIBERTY RIDGE RD.

CTH E

LIBERTY RIDGE RD.

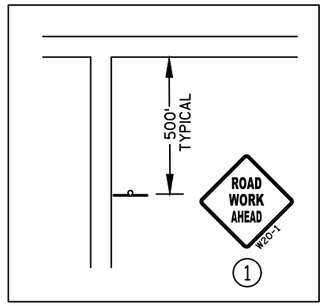
1



TYPICAL SIDE ROAD
SIGN LAYOUT

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: TRAFFIC CONTROL	SHEET	E

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\CAD\2016.10.19_1650-06-03_TCP_OVERALL.DWG PLOT DATE : 10/24/2016 8:59 AM PLOT BY : DIANE DOLL PLOT NAME : ---------- PLOT SCALE :



TYPICAL SIDE ROAD SIGN LAYOUT

MESSAGE FOR PCMS:

- ROAD WORK STARTING XX/XX/XX EXPECT DELAYS

END PROJECT 1650-06-73
STATION 2600+08.27

MATCH LINE

PINE GROVE RD.

61

WELLS LN.

MCGHAN RD.

18TH ST.

12TH ST.

CMB

Fennimore

CTH H

CTH F

Stitzer

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: TRAFFIC CONTROL	SHEET 46	E

2

STA 27'K'+20.94 POT:
Y=528,070.163
X=819,621.364

CTH K

N47°29'00"W

EP: 27+20.94'K'

2065 2070 2075 2080 2085 2090 2095 2100 2105 2110 2115 2120 2125 2130 2135 2140

N30°44'43"E

BP: 2063+39.82

STA 2063+39.82 POT:
Y=527,059.893
X=819,259.443

PC: 2071+71.35

STA 2073+48.49 =
STA 25'K'+00.00
Y=527,920.850
X=819,784.215

PI: 2078+78.20

EP: 38+11.78'EN'

N0°29'50"E

ENTERPRISE ST

STA 38'EN'+11.78 POT:
Y=528,746.506
X=820,571.766

STA 2083+04.02 =
STA 35'EN'+00.00
Y=528,434.734
X=820,569.061

PT: 2084+85.66

PI STA = 2078+78.20
Y = 528382.047
X = 820045.894
DELTA = 52°15'30"
D = 3°58'34"
T = 706.85'
L = 1314.30'
R = 1441.00'
PC STA = 2071+71.35
PT STA = 2084+85.66
SE = 5.2%

N83°00'13"E

USH 61

STA 2103+67.10 =
STA 45'CM'+00.00
Y=528,697.324
X=822,614.910

STA 47'CM'+66.10 POT:
Y=528,963.403
X=822,618.669

EP: 47+66.10'CM'

N0°48'34"E

COMMERICAL RD

STA 2107+98.61 =
STA 57'BM'+72.10
Y=528,749.887
X=823,043.211

N0°23'49"E

BEMIS RD

BP: 55+00.00'BM'

STA 55'BM'+00.00 POT:
Y=528,477.793
X=823,041.326

STA 67'ID'+58.64 POT:
Y=529,050.442
X=823,390.594

EP: 67+58.64'ID'

N1°11'51"E

INDUSTRIAL DR

STA 2111+43.16 =
STA 65'ID'+00.00
Y=528,791.855
X=823,385.188

PI: 2122+34.56

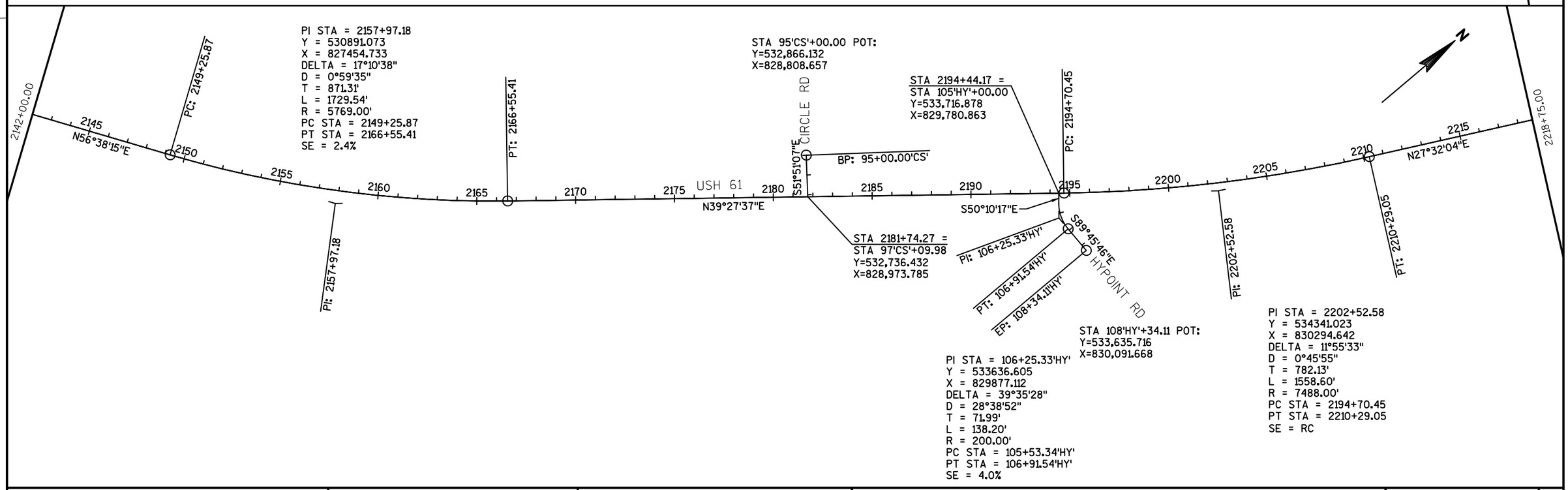
PI STA = 2122+34.56
Y = 528924.798
X = 824468.461
DELTA = 26°21'57"
D = 3°41'47"
T = 363.06'
L = 713.27'
R = 1550.00'
PC STA = 2118+71.49
PT STA = 2125+84.76
SE = 5.5%

PC: 2118+71.49

PT: 2125+84.76

N56°38'15"E

2142+00.00

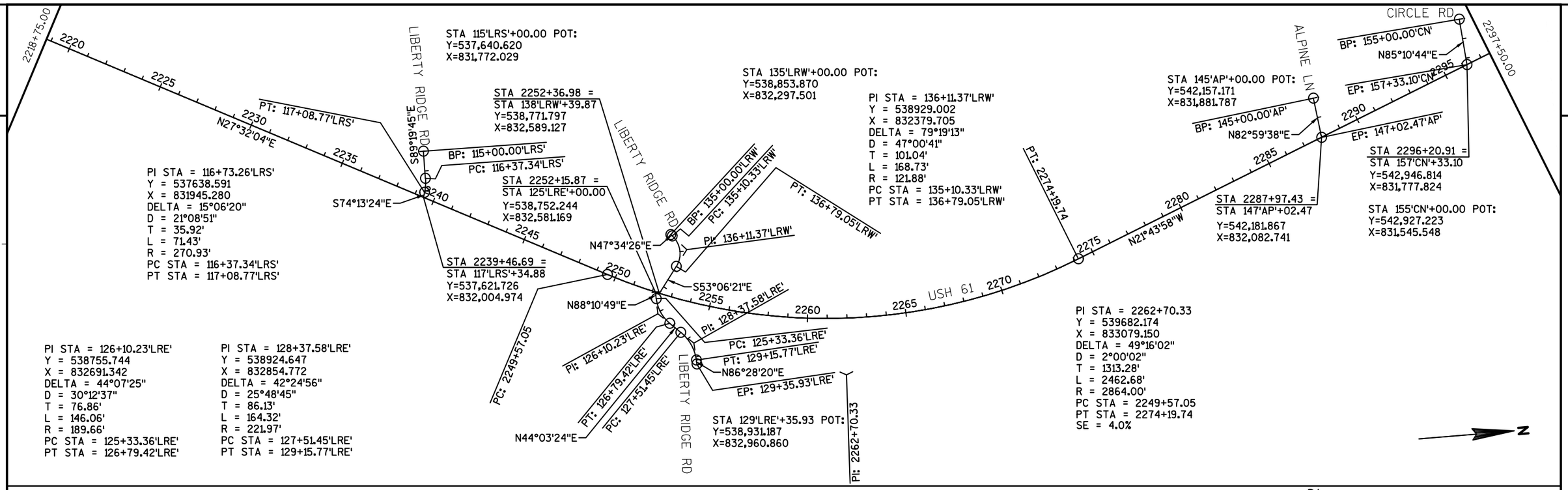


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT PLAN	SHEET 47	E

FILE NAME : 027201_AD.DWG PLOT DATE : 10/24/2016 9:56 AM PLOT BY : SEH INC LAYOUT NAME : 027201_AD PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT PLAN	SHEET 48	E

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

2

2

2376+25.00

PT: 2378+18.89

2380 2385 2390 2395 2400 2405 2410 2415 2420 2425 2430 2435 2440 2445 2450

USH 61

N37°04'11"E

STA 2427+53.75 =
STA 195'PG'+00.00
Y=554,568.628
X=833,505.579

S67°55'49"E

N48°02'30"E

PINE GROVE RD

PC: 195+38.90'PG'

PI: 196+28.93'PG'

PT: 196+99.82'PG'

EP: 197+45.61'PG'

STA 197'PG'+45.61 POT:
Y=554,610.991
X=833,726.062

PI STA = 196+28.93'PG'
Y = 554520.184
X = 833625.063
DELTA = 64°01'41"
D = 39°47'19"
T = 90.03'
L = 160.92'
R = 144.00'
PC STA = 195+38.90'PG'
PT STA = 196+99.82'PG'

2452+00.00

2452+00.00

2455 2460 2465 2470 2475 2480 2485 2490 2495 2500 2505 2510 2515 2520 2525

N37°04'11"E

PC: 2461+66.92

PI STA = 2479+52.08
Y = 558716.385
X = 836639.064
DELTA = 38°37'06"
D = 1°07'28"
T = 1785.16'
L = 3434.12'
R = 5095.00'
PC STA = 2461+66.92
PT STA = 2496+01.04
SE = 2.6%

STA 2480+61.06 =
STA 205'WL'+00.00
Y=558,978.573
X=836,400.928

PT: 2496+01.04

PC: 2508+61.29

PI: 2523+92.89

USH 61

N1°32'55"W

S79°00'09"E

N89°12'46"E

PC: 205+58.05'WL'

PI: 205+79.78'WL'

PT: 206+01.36'WL'

EP: 207+01.35'WL'

WELLS LN

PI: 2479+52.08

STA 207'WL'+01.35 POT:
Y=558,965.026
X=836,600.952

PI STA = 205+79.78'WL'
Y = 558963.354
X = 836479.243
DELTA = 11°47'04"
D = 27°12'50"
T = 21.73'
L = 43.30'
R = 210.54'
PC STA = 205+58.05'WL'
PT STA = 206+01.36'WL'

PI STA = 2523+92.89
Y = 563291.730
X = 836515.370
DELTA = 24°02'04"
D = 0°47'47"
T = 1531.60'
L = 3018.16'
R = 7195.00'
PC STA = 2508+61.29
PT STA = 2538+79.45
SE = RC

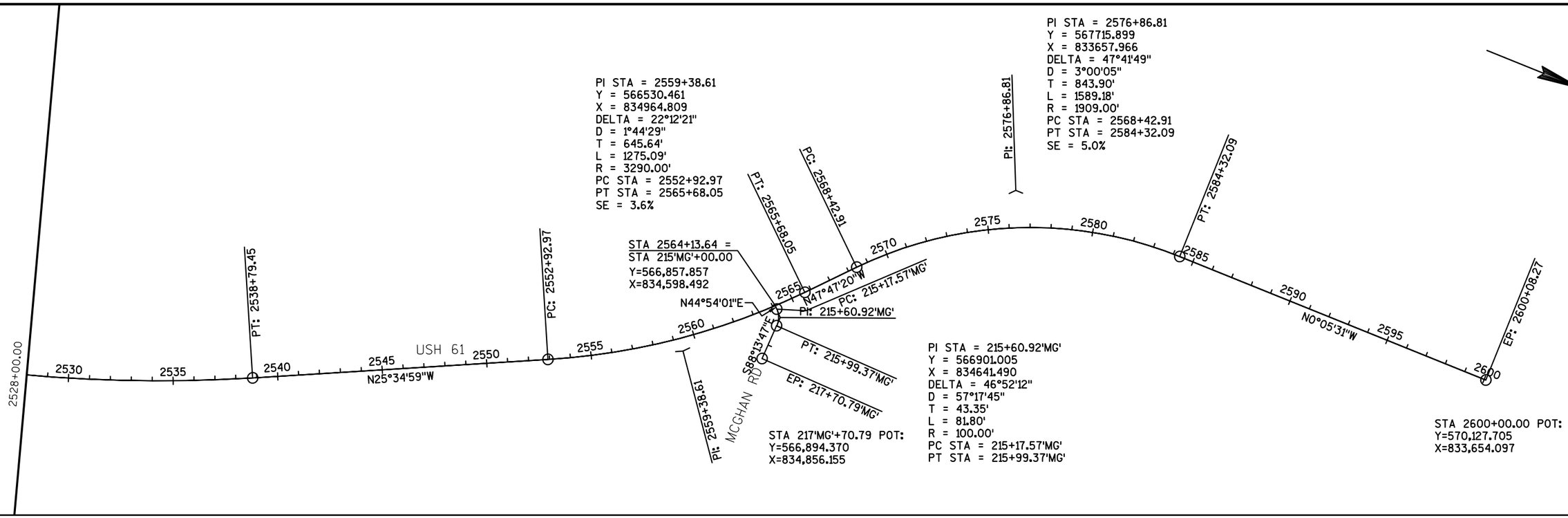
2528+00.00

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT PLAN	SHEET 49	E

FILE NAME : 027201_AD.DWG | PLOT DATE : 10/24/2016 9:56 AM | PLOT BY : SEH INC | LAYOUT NAME : 027203_AD | PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

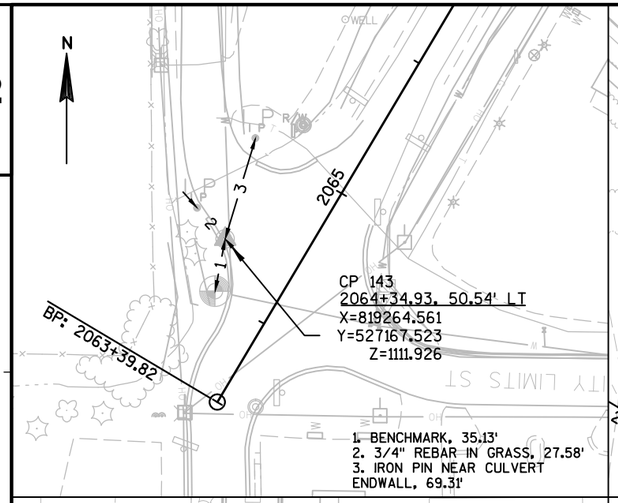


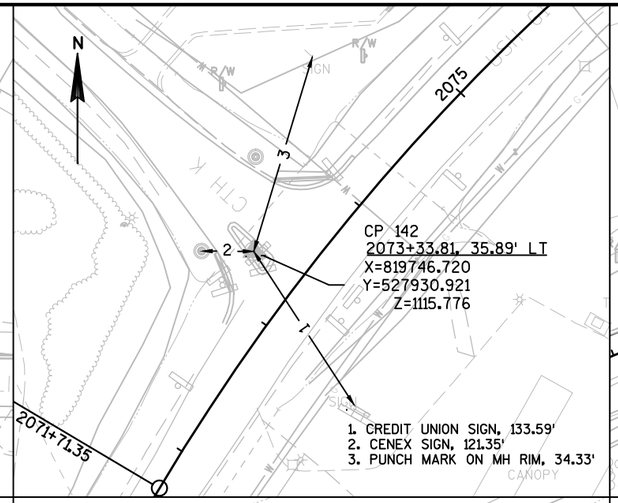
SAVE FOLDER PATH:P:\NZ\WV\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

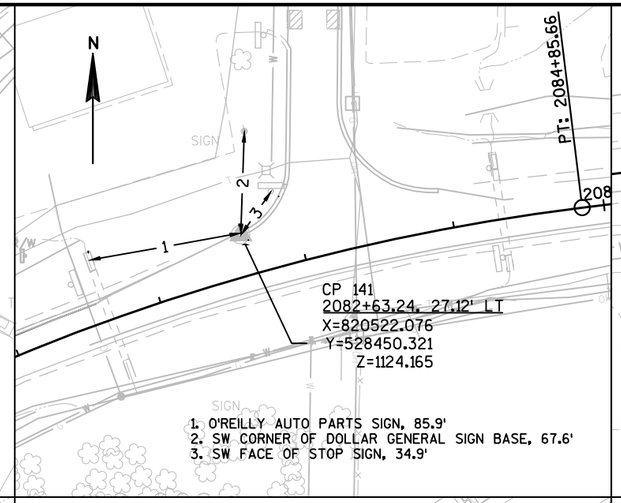
PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT PLAN	SHEET 50	E

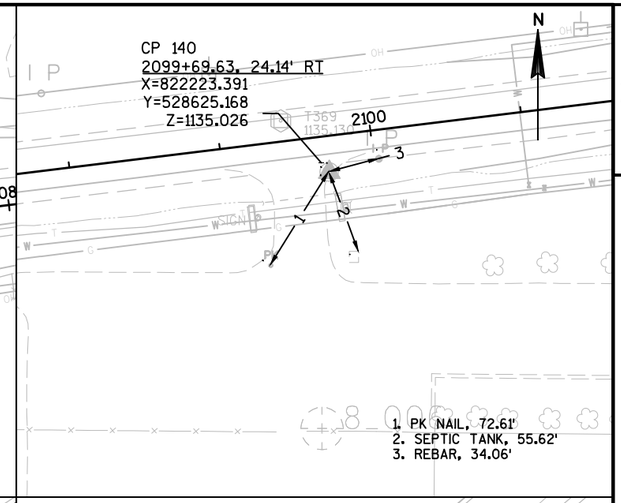
FILE NAME : 027201_AD.DWG | PLOT DATE : 10/24/2016 9:56 AM | PLOT BY : SEH INC | LAYOUT NAME : 027204_AD | PLOT SCALE : 1 IN:500 FT

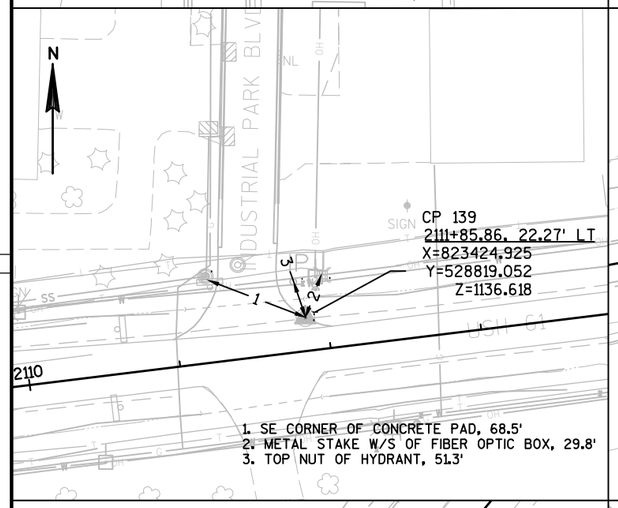
2

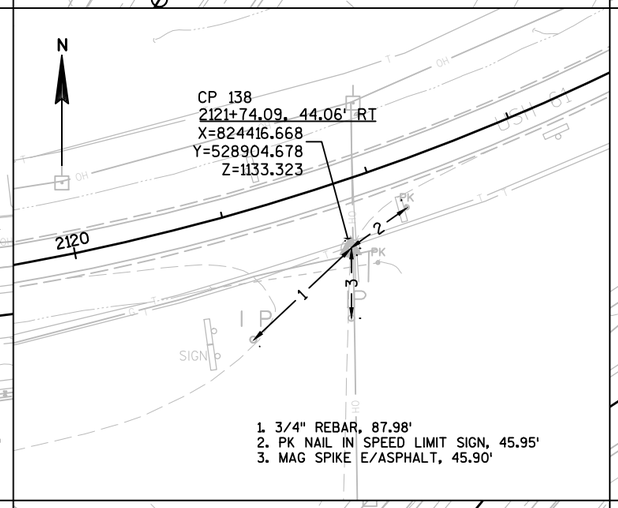


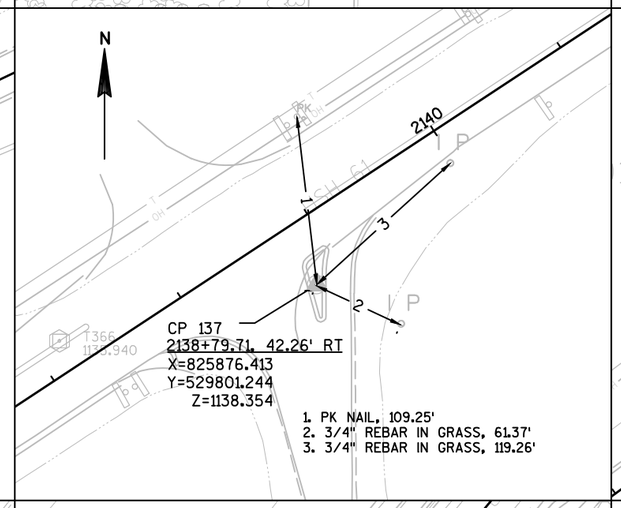


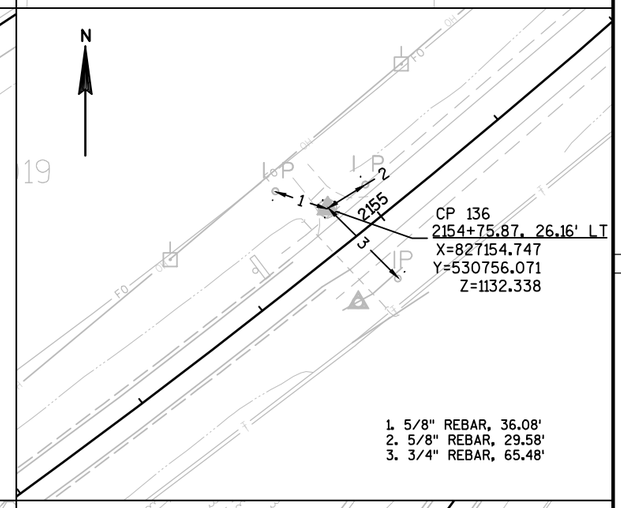


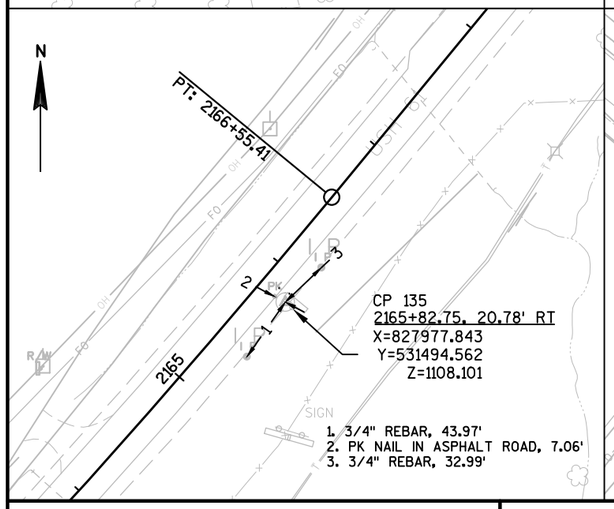


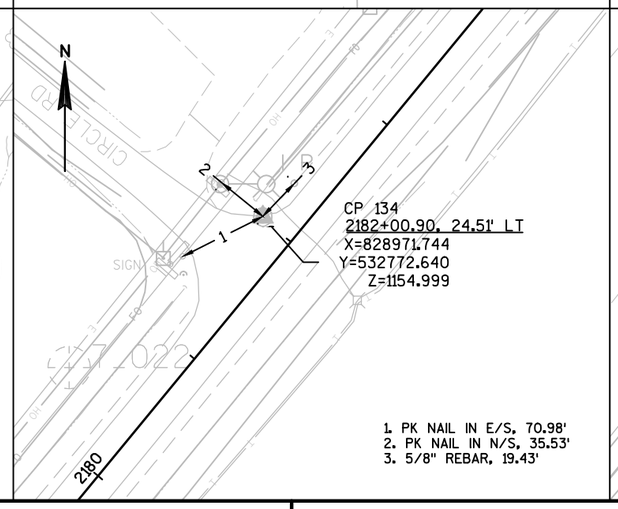


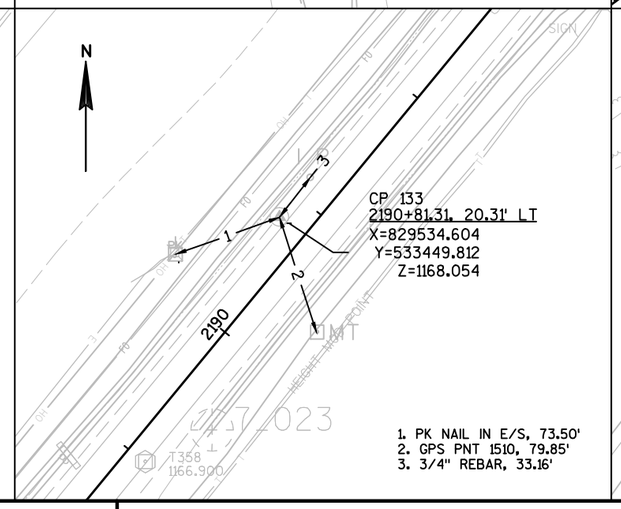


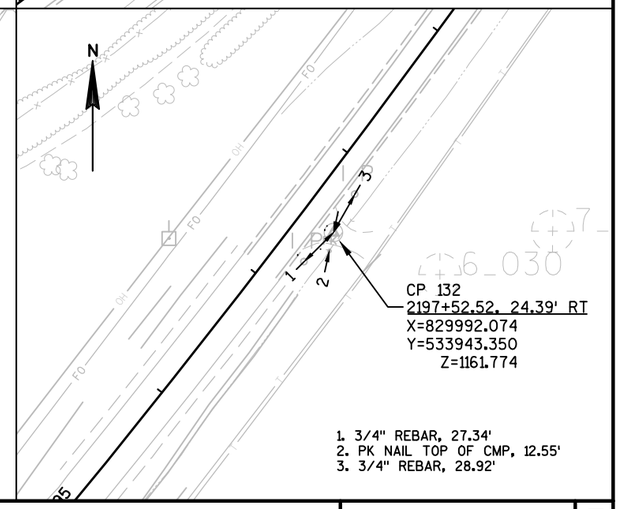












PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT CONTROL POINTS	SHEET 51	E

SAVE FOLDER PATH: P:\UZ\WI\TSW\117740\CIVIL 3D\16500603\SHEETSPLAN

FILE NAME : 027401_CP.DWG
LAYOUT NAME - 027401_CP

PLOT DATE : 10/24/2016 11:50 AM PLOT BY : SEH INC LAYOUT NAME : 027401_CP PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PT: 2210+29.05

2210

CP 131
2209+16.00, 18.19' RT
X=830619.135
Y=534926.051
Z=1115.008

1. 3/4" REBAR, 23.73'
2. PK NAIL IN SIGN, 9.05'
3. 3/4" REBAR, 20.39'

2225

CP 130
2224+04.93, 22.61' RT
X=831312.273
Y=536244.194
Z=1112.878

1. ADDRESS SIGN, 30.72'
2. PK NAIL, 6.26'
3. PK NAIL, 26.08'

2240

CP 129
2239+15.93, 24.75' LT
X=831968.706
Y=537606.162
Z=1083.300

1. PK NAIL IN E/S, 62.50'
2. PK NAIL IN TOP CMP, 12.83'
3. CORNER OF FENCE, 60.35'

LIBERTY RIDGE

CP 128
2252+52.21, 25.64' RT
X=832618.519
Y=538776.735
Z=1122.334

1. PK IN STOP SIGN, 17.22'
2. PK NAIL, 7.85'
3. 5/8" REBAR, 26.20'

2

CP 127
2257+65.49, 17.94' RT
X=832757.946
Y=539273.996
Z=1125.031

1. 5/8" REBAR, 29.87'
2. PK IN RUSTIC SIGN, 58.97'
3. PK TOP OF 1ST BEAM GUARD POST, 12.05'

CP 126
2267+59.39, 18.06' RT
X=832782.715
Y=540268.842
Z=1134.129

1. PK NAIL IN E/S, 82.12'
2. PK NAIL IN MOTEL SIGN, 50.05'
3. PK NAIL IN FENCE, 36.75'

2280

CP 125
2278+79.97, 19.98' RT
X=832441.092
Y=541337.130
Z=1138.794

1. MAG NAIL 1' EAST OF R/W MARKING, 58.72'
2. PK NAIL IN W/S, 7.45'
3. PK NAIL IN E/S, 72.72'

CP 124
2296+17.96, 42.71' LT
X=831739.292
Y=542928.341
Z=1146.715

1. PK NAIL IN N/S, 59.02'
2. PK NAIL IN S/S, 55.98'
3. R/W POST, 25.76'

2295

CP 123
2311+82.35, 23.37' RT
X=831221.360
Y=544406.037
Z=1108.519

1. PK NAIL IN S/S, 89.07'
2. PK NAIL, 50.30'
3. PK NAIL, 27.5'

2310

CP 122
2321+42.34, 27.31' LT
X=830818.875
Y=545278.852
Z=1058.321

1. MAG NAIL IN TOP OF POST, 19.90'
2. MAG NAIL IN S/S, 76.74'
3. 5/8" REBAR 36.11'

2325

CP 121
2334+90.88, 20.20' RT
X=830363.607
Y=546549.192
Z=980.424

1. MAG NAIL IN TOP OF 1ST GUARD RAIL POST, 19.29'
2. MAG NAIL IN E/ASPHALT, 7.98'
3. 5/8" REBAR, 30.55'

ROGERS R

CP 120
2352+36.19, 36.67' LT
X=829801.552
Y=548200.245
Z=924.335

1. PK NAIL IN TOP OF 1ST GUARD BEAM POST, 26.51'
2. PK NAIL IN E/S STOP SIGN, 26.51'
3. STREET SIGN, 48.47'

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT CONTROL POINTS	SHEET 52	E

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

FILE NAME : 027401_CP.DWG
LAYOUT NAME - 027402_CP

PLOT DATE : 10/24/2016 11:51 AM PLOT BY : SEH INC LAYOUT NAME : 027402_CP PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

CP 119
2364+05.35, 19.17' RT
X=829945.101
Y=549359.338
Z=925.506

1. CHISEL IN TOP OF CONCRETE, 16.11'
2. PK IN W/S FENCE POST, 39.37'
3. PK IN E/A, 5.91'

PT: 2378+18.89

CP 118
2377+43.86, 23.19' LT
X=830467.685
Y=550584.358
Z=937.127

1. PK IN E/S, 43.41'
2. ADDRESS SIGN 11509, 32.19'
3. PK IN W/S, 58.21"

CP 117
2390+57.68, 23.22' LT
X=831259.072
Y=551633.519
Z=943.274

1. PK IN E/S, 34.14'
2. PK NAIL, 21.71'
3. PK IN E/A, 10.33'

CP 116
2403+49.93, 18.20' LT
X=832042.177
Y=552661.569
Z=953.611

1. PK NAIL IN E/S, 7.0'
2. EOP, 3.7'
3. PK NAIL IN SE/S, 77.10'

CP 115
2416+49.09, 17.42' LT
X=832825.844
Y=553697.738
Z=985.284

1. 3/4" REBAR, 22.74'
2. PK NAIL, 5.21'
3. 3/4" REBAR, 19.68'

CP 114
2427+36.37, 24.28' RT
X=833497.136
Y=554544.841
Z=967.093

1. PK NAIL IN FENCE POST, 26.10'
2. STOP SIGN PK NAIL, 62.39'
3. PK NAIL NO PASSING ZONE SIGN, 88.05'

CP 113
2442+09.47, 17.98' LT
X=834368.742
Y=555740.993
Z=967.998

1. PK NAIL IN SIGN POST, 13.43'
2. 3/4" REBAR, 22.94'
3. PK NAIL IN E/S, 51.67'

CP 112
2456+47.28, 16.90' LT
X=835236.308
Y=556887.572
Z=1006.970

1. 3/4" REBAR, 24.68'
2. 3/4" REBAR, 22.48'
3. 3/4" REBAR, WEST OF DITCH IN SIDE SLOPE, 16.7'

CP 111
2467+70.77, 17.98' RT
X=835913.134
Y=557785.172
Z=987.608

1. 3/4" REBAR, 24.32'
2. PK NAIL IN E/A, 6.20'
3. 3/4" REBAR, 21.07'

CP 110
2480+51.89, 25.65' RT
X=836423.122
Y=558962.639
Z=987.794

1. 5/8" REBAR, 29.68'
2. 5/8" REBAR, 23.92'
3. MAG NAIL IN ADOPT A HIGHWAY SIGN, 61.65'

CP 109
2488+58.52, 26.46' RT
X=836583.136
Y=559756.655
Z=991.411

1. 3/4" REBAR, 25.56'
2. PAINT MARKS ON TOP OF CONCRETE CULVERT, 22.1'
3. CONCRETE CULVERT, 55.36'

CP 108
2502+80.76, 22.99' RT
X=836595.433
Y=561181.399
Z=997.965

1. 3/4" REBAR, 21.00'
2. SIGN *12270, 40.94'
3. PK NAIL IN S/S, 65.15'

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT CONTROL POINTS	SHEET 53	E

FILE NAME : 027401_CP.DWG
LAYOUT NAME - 027403_CP

PLOT DATE : 10/24/2016 11:51 AM PLOT BY : SEH INC LAYOUT NAME : 027403_CP

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

CP 107
2515+89.87, 23.31' RT
X=836523.434
Y=562489.712
Z=1011.284

1. 5/8" REBAR, 23.49'
2. 6" MAG NAIL, 12.81'
3. 5/8" REBAR *12366, 29.11'

CP 106
2530+30.98, 24.16' RT
X=836197.357
Y=563895.850
Z=1028.227

1. 5/8" REBAR, 32.56'
2. 6" MAG NAIL, 11.01'
3. 5/8" NAIL, 29.47

CP 105
2539+43.70, 17.57' LT
X=835810.471
Y=564723.492
Z=1038.925

PT: 2538+79.45

1. 5/8" REBAR, 25.71'
2. 6" MAG NAIL, 4.35'
3. 5/8" REBAR, 27.68'

CP 104
2553+98.51, 38.39' R
X=835230.569
Y=566060.311
Z=1052.218

PC: 2552+92.97

1. 5/8" REBAR, 47.34'
2. 5/8" REBAR, 31.64'
3. 6" MAG NAIL, 15.16'

CP 103
2564+91.95, 17.48' LT
X=834530.266
Y=566899.921
Z=1062.544

PT: 2565+68.05

CP 102
2576+67.22, 17.48' LT
X=833792.518
Y=567808.848
Z=1114.659

1. WOOD POST PK NAIL, 9.02'
2. 5/8" REBAR, 6.38'
3. 5/8" REBAR, 23.01'

CP 101
2586+73.54, 46.58' LT
X=833609.689
Y=568801.092
Z=1163.114

1. PK NAIL IN FENCE POST, 24.70'
2. 5/8 " REBAR, 36.30'
3. SE CORNER OF LIGHT BASE, 103.32'

CP 100
2592+72.24, 20.69' RT
X=833675.942
Y=569399.971
Z=1168.155

1. PUNCH MARK SOUTH RIM, 41.0'
2. NW CORNER CONCRETE CURB FACE, 39.53'
3. SW CORNER SIGN, 73.87'

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	ALIGNMENT CONTROL POINTS	SHEET 54	E

FILE NAME : 027401_CP.DWG
LAYOUT NAME - 027404_CP

PLOT DATE : 10/24/2016 11:51 AM PLOT BY : SEH INC LAYOUT NAME : 027404_CP

PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

SAVE FOLDER PATH: P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	49.000	49.000
0020	201.0205	Grubbing	STA	49.000	49.000
0030	203.0100	Removing Small Pipe Culverts	EACH	46.000	46.000
0040	203.0200	Removing Old Structure (station) 01. 2081+65.57	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 02. 2084+32.45	LS	1.000	1.000
0060	203.0200	Removing Old Structure (station) 03. 2231+14.61	LS	1.000	1.000
0070	203.0200	Removing Old Structure (station) 04. 2305+83.40	LS	1.000	1.000
0080	203.0200	Removing Old Structure (station) 05. 2332+95.43	LS	1.000	1.000
0090	203.0200	Removing Old Structure (station) 06. 2412+77.73	LS	1.000	1.000
0100	203.0200	Removing Old Structure (station) 07. 2432+77.58	LS	1.000	1.000
0110	203.0200	Removing Old Structure (station) 08. 2447+32.38	LS	1.000	1.000
0120	203.0200	Removing Old Structure (station) 09. 2469+76.22	LS	1.000	1.000
0130	203.0200	Removing Old Structure (station) 10. 2497+16.23	LS	1.000	1.000
0140	203.0200	Removing Old Structure (station) 11. 2530+46.06	LS	1.000	1.000
0150	203.0200	Removing Old Structure (station) 12. 2481+16.32	LS	1.000	1.000
0160	203.0200	Removing Old Structure (station) 13. 2539+55.14	LS	1.000	1.000
0170	203.0200	Removing Old Structure (station) 14. 2552+61.29	LS	1.000	1.000
0180	203.0200	Removing Old Structure (station) 15. 2567+68.96	LS	1.000	1.000
0190	203.0200	Removing Old Structure (station) 16. 2531+78.54	LS	1.000	1.000
0200	204.0150	Removing Curb & Gutter	LF	959.000	959.000
0210	204.0165	Removing Guardrail	LF	5,631.000	5,631.000
0220	204.0170	Removing Fence	LF	20,182.000	20,182.000
0230	204.0185	Removing Masonry	CY	21.000	21.000
0240	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0250	205.0100	Excavation Common	CY	82,977.000	82,977.000
0260	205.0200	Excavation Rock	CY	13,705.000	13,705.000
0270	206.2000	Excavation for Structures Culverts (structure) 01. C-22-1759	LS	1.000	1.000
0280	206.2000	Excavation for Structures Culverts (structure) 02. C-22-1760	LS	1.000	1.000
0290	206.2000	Excavation for Structures Culverts (structure) 03. C-22-1762	LS	1.000	1.000
0300	206.2000	Excavation for Structures Culverts (structure) 04. C-22-1763	LS	1.000	1.000
0310	206.2000	Excavation for Structures Culverts (structure) 05. C-22-1764	LS	1.000	1.000
0320	206.2000	Excavation for Structures Culverts (structure) 06. C-22-1765	LS	1.000	1.000
0330	206.2000	Excavation for Structures Culverts (structure) 07. C-22-1766	LS	1.000	1.000
0340	206.2000	Excavation for Structures Culverts (structure) 08. C-22-	LS	1.000	1.000

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
		1767			
0350	206.2000	Excavation for Structures Culverts (structure) 09. C-22-1768	LS	1.000	1.000
0360	206.2000	Excavation for Structures Culverts (structure) 10. C-22-1769	LS	1.000	1.000
0370	206.2000	Excavation for Structures Culverts (structure) 11. C-22-1770	LS	1.000	1.000
0380	206.2000	Excavation for Structures Culverts (structure) 12. C-22-1771	LS	1.000	1.000
0390	206.2000	Excavation for Structures Culverts (structure) 13. C-22-1772	LS	1.000	1.000
0400	206.2000	Excavation for Structures Culverts (structure) 14. C-22-1773	LS	1.000	1.000
0410	206.2000	Excavation for Structures Culverts (structure) 15. C-22-1774	LS	1.000	1.000
0420	208.0100	Borrow	CY	103,777.000	103,777.000
0430	210.2500	Backfill Structure Type B	TON	6,668.000	6,668.000
0440	213.0100	Finishing Roadway (project) 01. 1650-06-73	EACH	1.000	1.000
0450	305.0110	Base Aggregate Dense 3/4-Inch	TON	8,762.000	8,762.000
0460	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	65,185.000	65,185.000
0470	311.0115	Breaker Run	CY	347.000	347.000
0480	312.0110	Select Crushed Material	TON	35,959.000	35,959.000
0490	325.0100	Pulverize and Relay	SY	216,316.000	216,316.000
0500	371.1000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	TON	65,185.000	65,185.000
0510	374.1020.S	QMP Pulverize and Relay Compaction	SY	216,316.000	216,316.000
0520	416.0160	Concrete Driveway 6-Inch	SY	70.000	70.000
0530	416.1010	Concrete Surface Drains	CY	22.000	22.000
0540	440.4410	Incentive IRI Ride	DOL	19,156.000	19,156.000
0550	455.0605	Tack Coat	GAL	12,831.000	12,831.000
0560	460.2000	Incentive Density HMA Pavement	DOL	47,370.000	47,370.000
0570	460.2010	Incentive Air Voids HMA Pavement	DOL	47,370.000	47,370.000
0580	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	29,479.000	29,479.000
0590	460.6223	HMA Pavement 3 MT 58-28 S	TON	41,383.000	41,383.000
0600	460.6224	HMA Pavement 4 MT 58-28 S	TON	29,316.000	29,316.000
0610	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	248.000	248.000
0620	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	85,414.000	85,414.000
0630	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	33,031.000	33,031.000
0640	502.4205	Adhesive Anchors No. 5 Bar	EACH	524.000	524.000
0650	504.0100	Concrete Masonry Culverts	CY	439.000	439.000
0660	505.0400	Bar Steel Reinforcement HS Structures	LB	36,750.000	36,750.000
0670	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,330.000	16,330.000

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
0680	516.0500	Rubberized Membrane Waterproofing	SY	298.000	298.000
0690	520.8000	Concrete Collars for Pipe	EACH	58.000	58.000
0700	520.9700.S	Culvert Pipe Liners (size) 01. 24-Inch	LF	166.000	166.000
0710	520.9700.S	Culvert Pipe Liners (size) 02. 36-Inch	LF	376.000	376.000
0720	520.9700.S	Culvert Pipe Liners (size) 03. 60-Inch	LF	123.000	123.000
0730	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	3.000	3.000
0740	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	1,898.000	1,898.000
0750	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	334.000	334.000
0760	521.0130	Culvert Pipe Corrugated Steel 30-Inch	LF	4.000	4.000
0770	521.0136	Culvert Pipe Corrugated Steel 36-Inch	LF	70.000	70.000
0780	521.0160	Culvert Pipe Corrugated Steel 60-Inch	LF	66.000	66.000
0790	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	76.000	76.000
0800	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	10.000	10.000
0810	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	2.000	2.000
0820	521.1036	Apron Endwalls for Culvert Pipe Steel 36-Inch	EACH	2.000	2.000
0830	521.1060	Apron Endwalls for Culvert Pipe Steel 60-Inch	EACH	6.000	6.000
0840	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	374.000	374.000
0850	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	38.000	38.000
0860	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	86.000	86.000
0870	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	48.000	48.000
0880	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	56.000	56.000
0890	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0900	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	34.000	34.000
0910	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	8.000	8.000
0920	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	9.000	9.000
0930	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	6.000	6.000
0940	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	4.000	4.000
0950	524.0124	Culvert Pipe Salvaged 24-Inch	LF	120.000	120.000
0960	524.0130	Culvert Pipe Salvaged 30-Inch	LF	48.000	48.000
0970	524.0136	Culvert Pipe Salvaged 36-Inch	LF	24.000	24.000
0980	524.0142	Culvert Pipe Salvaged 42-Inch	LF	24.000	24.000
0990	524.0148	Culvert Pipe Salvaged 48-Inch	LF	24.000	24.000
1000	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	1.000	1.000
1010	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	57.000	57.000
1020	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	62.000	62.000

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
1030	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	565.000	565.000
1040	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	2,404.000	2,404.000
1050	606.0200	Riprap Medium	CY	150.000	150.000
1060	606.0300	Riprap Heavy	CY	87.000	87.000
1070	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	136.000	136.000
1080	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	126.000	126.000
1090	611.0615	Inlet Covers Type F	EACH	1.000	1.000
1100	611.0630	Inlet Covers Type HM-GJ	EACH	2.000	2.000
1110	611.0642	Inlet Covers Type MS	EACH	3.000	3.000
1120	611.3004	Inlets 4-FT Diameter	EACH	3.000	3.000
1130	611.3903	Inlets Median 3 Grate	EACH	1.000	1.000
1140	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000
1150	614.2300	MGS Guardrail 3	LF	67.000	67.000
1160	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000
1170	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
1180	616.0700.S	Fence Safety	LF	118.000	118.000
1190	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1650-06-73	EACH	1.000	1.000
1200	619.1000	Mobilization	EACH	1.000	1.000
1210	620.0300	Concrete Median Sloped Nose	SF	64.000	64.000
1220	624.0100	Water	MGAL	2,160.000	2,160.000
1230	625.0500	Salvaged Topsoil	SY	295,226.000	295,226.000
1240	627.0200	Mulching	SY	273,616.000	273,616.000
1250	628.1504	Silt Fence	LF	51,300.000	51,300.000
1260	628.1520	Silt Fence Maintenance	LF	51,300.000	51,300.000
1270	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
1280	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
1290	628.2002	Erosion Mat Class I Type A	SY	63,000.000	63,000.000
1300	628.2004	Erosion Mat Class I Type B	SY	3,800.000	3,800.000
1310	628.7005	Inlet Protection Type A	EACH	5.000	5.000
1320	628.7020	Inlet Protection Type D	EACH	5.000	5.000
1330	628.7504	Temporary Ditch Checks	LF	1,600.000	1,600.000
1340	628.7555	Culvert Pipe Checks	EACH	490.000	490.000
1350	628.7560	Tracking Pads	EACH	10.000	10.000
1360	629.0205	Fertilizer Type A	CWT	273.000	273.000
1370	630.0110	Seeding Mixture No. 10	LB	3,116.000	3,116.000
1380	630.0130	Seeding Mixture No. 30	LB	3,644.000	3,644.000
1390	630.0200	Seeding Temporary	LB	11,698.000	11,698.000

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
1400	633.5200	Markers Culvert End	EACH	80.000	80.000
1410	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	81.000	81.000
1420	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	69.000	69.000
1430	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	22.000	22.000
1440	634.0808	Posts Tubular Steel 2x2-Inch X 8-FT	EACH	1.000	1.000
1450	637.2210	Signs Type II Reflective H	SF	818.110	818.110
1460	637.2230	Signs Type II Reflective F	SF	321.500	321.500
1470	638.2102	Moving Signs Type II	EACH	1.000	1.000
1480	638.2602	Removing Signs Type II	EACH	149.000	149.000
1490	638.3000	Removing Small Sign Supports	EACH	145.000	145.000
1500	642.5001	Field Office Type B	EACH	1.000	1.000
1510	643.0100	Traffic Control (project) 01. 1650-06-73	EACH	1.000	1.000
1520	643.0300	Traffic Control Drums	DAY	39,689.000	39,689.000
1530	643.0420	Traffic Control Barricades Type III	DAY	5,610.000	5,610.000
1540	643.0705	Traffic Control Warning Lights Type A	DAY	640.000	640.000
1550	643.0715	Traffic Control Warning Lights Type C	DAY	170.000	170.000
1560	643.0900	Traffic Control Signs	DAY	4,300.000	4,300.000
1570	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
1580	645.0105	Geotextile Type C	SY	1,230.000	1,230.000
1590	645.0120	Geotextile Type HR	SY	203.000	203.000
1600	645.0130	Geotextile Type R	SY	590.000	590.000
1610	646.0106	Pavement Marking Epoxy 4-Inch	LF	111,046.000	111,046.000
1620	646.0126	Pavement Marking Epoxy 8-Inch	LF	3,363.000	3,363.000
1630	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	62,339.000	62,339.000
1640	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	218.000	218.000
1650	648.0100	Locating No-Passing Zones	MI	9.578	9.578
1660	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	62,339.000	62,339.000
1670	650.4000	Construction Staking Storm Sewer	EACH	7.000	7.000
1680	650.4500	Construction Staking Subgrade	LF	53,049.000	53,049.000
1690	650.5000	Construction Staking Base	LF	53,049.000	53,049.000
1700	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	3,095.000	3,095.000
1710	650.6000	Construction Staking Pipe Culverts	EACH	77.000	77.000
1720	650.6500	Construction Staking Structure Layout (structure) 01. C-22-1759	LS	1.000	1.000
1730	650.6500	Construction Staking Structure Layout (structure) 02. C-22-1760	LS	1.000	1.000
1740	650.6500	Construction Staking Structure Layout (structure) 03. C-22-1762	LS	1.000	1.000
1750	650.6500	Construction Staking Structure Layout (structure) 04. C-22-1763	LS	1.000	1.000
1760	650.6500	Construction Staking Structure Layout (structure) 05. C-	LS	1.000	1.000

1650-06-73

Line	Item	Item Description	Unit	Total	Qty
		22-1764			
1770	650.6500	Construction Staking Structure Layout (structure) 06. C-22-1765	LS	1.000	1.000
1780	650.6500	Construction Staking Structure Layout (structure) 07. C-22-1766	LS	1.000	1.000
1790	650.6500	Construction Staking Structure Layout (structure) 08. C-22-1767	LS	1.000	1.000
1800	650.6500	Construction Staking Structure Layout (structure) 09. C-22-1768	LS	1.000	1.000
1810	650.6500	Construction Staking Structure Layout (structure) 10. C-22-1769	LS	1.000	1.000
1820	650.6500	Construction Staking Structure Layout (structure) 11. C-22-1770	LS	1.000	1.000
1830	650.6500	Construction Staking Structure Layout (structure) 12. C-22-1771	LS	1.000	1.000
1840	650.6500	Construction Staking Structure Layout (structure) 13. C-22-1772	LS	1.000	1.000
1850	650.6500	Construction Staking Structure Layout (structure) 14. C-22-1773	LS	1.000	1.000
1860	650.6500	Construction Staking Structure Layout (structure) 15. C-22-1774	LS	1.000	1.000
1870	650.8000	Construction Staking Resurfacing Reference	LF	51,797.000	51,797.000
1880	650.9910	Construction Staking Supplemental Control (project) 01. 1650-06-73	LS	1.000	1.000
1890	650.9920	Construction Staking Slope Stakes	LF	53,049.000	53,049.000
1900	690.0150	Sawing Asphalt	LF	28,347.000	28,347.000
1910	690.0250	Sawing Concrete	LF	65.000	65.000
1920	715.0502	Incentive Strength Concrete Structures	DOL	2,634.000	2,634.000
1930	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,500.000	2,500.000
1940	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,520.000	3,520.000
1950	SPV.0035	Special 01. Excess Pulverized Material	CY	346.000	346.000
1960	SPV.0060	Special 01. Hot Mix Asphalt Percent Within Limit (PWL) Test Strip	EACH	1.000	1.000

REMOVING SMALL PIPE CULVERTS

PROJECT NUMBER	CATEGORY	STAGE	STATION	OFFSET	DESCRIPTION	203.0100 (EACH)
1650-06-73	0010	-	2066+95	LT	18" CPCS	1
			2072+00	RT	18" CPCS	1
			25+46'K'	CL	24" CPCS	1
			26+70'K'	RT	24" CPRC	1
			2076+60	RT	18" CPCS	1
			2086+08	LT	18" CPCS	1
			2089+86	RT	18" CPCS	1
			2091+13	LT	18" CPCS	1
			2094+81	RT	18" CPCS	1
			2096+44	RT	18" CPCS	1
			2099+48	RT	18" CPCS	1
			45+35'CM'	CL	18" CPCS	1
			2103+87	RT	18" CPCS	1
			2105+72	RT	18" CPCS	1
			65+36'IN'	CL	18" CPCS	1
			2111+53	RT	18" CPCS	1
			2114+05	RT	18" CPCS	1
			2154+78	LT	18" CPCS	1
			2161+16	RT	18" CPCS	1
			2161+39	LT	18" CPCS	1
			2169+66	RT	18" CPCS	1
			96+75'CS'	CL	18" CPCS	1
			105+52'HY'	RT	24" CPCS	1
			2197+57	RT	18" CPCS	1
			2223+94	RT	18" CPCS	1
			2230+43	LT	18" CPCS	1
			2230+80	RT	18" CPCS	1
			116+93'LRS'	CL	18" CPCS	1
			2243+70	LT	18" CPCS	1
			2244+56	LT	18" CPCS	1
			125+48'LRE'	CL	24" CPCS	1
			138+06'LRW'	CL	18" CPCS	1
			2263+18	LT	18" CPCS	1
			2263+25	RT	18" CPCS	1
			2274+33	LT	18" CPCS	1
			2276+23	LT	24" CPRC	1
			2321+00	RT	36" CPCS	1
			2344+21	LT	18" CPCS	1
			175+96'GL'	CL	18" CPCS	1
			186+44'RG'	CL	18" CPCS	1
			186+47'RG'	CL	18" CPCS	1
			2415+36	LT	18" CPCS	1
			2449+54	RT	18" CPCS	1
			2467+65	LT	18" CPCS	1
			2539+93	RT	18" CPCS	1
			215+40'MG'	CL		1
					PROJECT TOTALS	**46**

CLEARING & GRUBBING

STATION		STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	REMARKS
2216+00	-	2220+00	4	4	
2223+00	-	2225+00	2	2	
2231+50	-	2234+50	3	3	
2239+00	-	2242+00	3	3	
2288+00			1	1	DRIVEWAY
2302+00	-	2306+00	4	4	
2319+00	-	2322+00	3	3	
2331+00	-	2340+00	9	9	
2362+00	-	2364+00	2	2	
2365+00	-	2371+00	6	6	
2432+00	-	2434+00	2	2	
2460+50	-	2461+50	1	1	
2490+50	-	2494+50	4	4	
2548+00	-	2551+00	3	3	
2556+00	-	2558+00	2	2	
TOTALS			49	49	

REMOVING CURB & GUTTER

PROJECT NUMBER	CATEGORY	STAGE	STATION		STATION	LOCATION	204.0150 (LF)
1650-06-73	0010	-				CTH K INTERSECTION	187
			26+49'K'	-	26+90'K'	DRIVEWAY	58
			35+18'EN'	-	36+37'EN'	ENTERPRISE ST	259
						BEMIS RD INTERSECTION	146
			65+73'IN'	-	66+04'IN'	INDUSTRIAL DR	59
						CTH E INTERSECTION	250
						PROJECT TOTALS	**959**

REMOVING FENCE

PROJECT NUMBER	CATEGORY	STAGE	STATION		STATION	LOCATION	204.0170 (LF)	REMARKS
1650-06-73	0010	-	2163+92	-	2164+63	RT	71	
			2165+70	-	2168+38	RT	303	
			2231+95	-	2235+40	RT	398	
			2235+50	-	2236+32	RT	85	
			2238+57	-	2240+06	RT	190	
			115+07'LRS'	-	116+84'LRS'	LT	182	
			2239+67	-	2242+00	LT	232	
			137+59'LRW'	-	137+89'LRW'	RT & LT	41	
			2253+93	-	2254+00	LT	23	
			165+67'E'	-	167+41'E'	LT	175	
			2307+55	-	2310+14	LT	257	
			2332+17	-	2334+46	RT	280	
			2334+54	-	2342+40	LT	831	
			175+52'GL'	-	177+31'GL'	LT	205	LOCATED WITHIN EXISTING R/W
			2346+08	-	2346+72	LT	64	LOCATED WITHIN EXISTING R/W
			2348+26	-	2350+07	LT	184	LOCATED WITHIN EXISTING R/W
			2350+10	-	2351+00	RT	51	
			2350+92	-	2352+26	LT	138	
			2351+07	-	2352+40	RT	136	
			185+45'RG'	-	186+61'RG'	RT & LT	242	
			2352+92	-	2358+42	LT	548	
			2361+12	-	2366+60	LT	565	
			2406+70	-	2410+90	RT	723	LOCATED WITHIN EXISTING R/W
			2410+90	-	2427+29	RT	1689	
			2412+50	-	2412+82	LT	66	
			195+41'PG'	-	197+07'PG'	RT	212	
			2433+49	-	2436+31	RT	282	
			2452+87	-	2476+53	RT	2406	
			2469+78	-	2470+05	LT	32	
			2478+41	-	2480+17	RT	178	
			2480+87	-	2497+21	RT	1679	
			2489+78	-	2496+10	LT	628	LOCATED WITHIN EXISTING R/W
			2497+82	-	2498+25	LT	46	LOCATED WITHIN EXISTING R/W
			2511+82	-	2519+00	LT	681	LOCATED WITHIN EXISTING R/W
			2523+63	-	2561+95	LT	3885	
			2539+46	-	2539+82	RT	120	
			2544+17	-	2551+50	RT	757	
			2555+86	-	2557+89	RT	208	LOCATED WITHIN EXISTING R/W
			2563+00	-	2563+92	LT	98	
			215+63'MG'	-	217+25'MG'	LT	173	LOCATED WITHIN EXISTING R/W
			2566+30	-	2577+00	LT	1118	
						PROJECT TOTALS	**20182**	

REMOVING GUARDRAIL

PROJECT NUMBER	CATEGORY	STAGE	STATION		STATION	LOCATION	204.0165 (LF)	REMARKS
1650-06-73	0010	-	2216+07	-	2220+10	RT	403	
			2230+99	-	2232+95	LT	196	
			2231+13	-	2234+60	RT	347	
			2240+04	-	2241+76	RT	172	
			2240+09	-	2242+71	LT	262	
			2248+79	-	2251+74	RT	297	
			2257+63	-	2261+76	RT	415	
			2318+28	-	2321+29	LT	300	
			2319+07	-	2322+47	RT	340	
			2330+26	-	2333+84	LT	358	
			2330+89	-	2334+88	RT	399	
			2349+06	-	2352+27	RT	289	
			2349+32	-	2352+13	LT	252	
			2459+46	-	2462+24	LT	277	
			2459+68	-	2462+44	RT	276	
			2496+00	-	2497+80	RT	179	
			2496+50	-	2498+24	LT	175	
			2569+74	-	2576+61	LT	694	
						PROJECT TOTALS	**5,631**	

REMOVING MASONRY

PROJECT NUMBER	CATEGORY	STAGE	STATION		LOCATION	204.0185 (CY)	COMMENTS
1650-06-73	0010	-	2402+59	-	USH 61 - LT & RT	12	48" RCP
			2523+82	-	USH 61 - RT	4	24" RCP
			2528+75	-	USH 61 - LT	5	FOUNDATION
					PROJECT TOTALS	**21**	

REMOVING CONCRETE BASES

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	204.0195 (EACH)	COMMENTS
1650-06-73	0010	-	2190+38.80, 47.09' RT	1	GEODECTIC MONUMENT BASE
				1	

3

EARTHWORK DATA SUMMARY TABLE

DIVISION	STAGE	CATEGORY CODE	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT	PULVERIZED MATERIAL	EBS EXCAVATION (2)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (3)	205.0200 Rock Excavation	REDUCED EBS IN FILL FACTOR 0.80	EXPANDED EBS BACKFILL FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL (4) FACTOR 1.25	MASS ORDINATE +/- (5)	DIVISION WASTE	208.0100 DIVISION BORROW
1	1	0010	2066+20 - 2128+40	USH 61	3487	3870	611		3487		489	794	9391	11739	-8557		
			2150+40 - 2234+00	USH 61	14498	5007			14498	1410			22810	28513	-14015		
			2234+00 - 2258+00	USH 61	1147	1444			1147	255			7208	9010	-7863		
			2258+00 - 2347+00	USH 61	20513	6458	2407		20513	7015	1926	3129	24457	30571	-11262		
			2347+00 - 2397+00	USH 61	1912	3009			1912	610			8258	10323	-8411		
			2396+00 - 2496+00	USH 61	19026	6019	3134		19026	1160	2507	4074	33219	41524	-24064		
			2496+00 - 2504+00	USH 61	165	481			165				1355	1694	-1529		
			2504+00 - 2563+00	USH 61	6607	3551	3300		6607	375	2640	4290	19087	23859	-18902		
			2562+00 - 2594+24	USH 61	2279	1940			2279	200			5850	7313	-5034		
			CTH K		129	79			129				233	291	-162		
			ENTERPRISE		43	59			43				6	8	35		
			COMMERCIAL		295	32			295				187	234	61		
			BEMIS		106	53			106				2	3	103		
			INDUSTRIAL		301	38			301				90	113	188		
			CIRCLE RD (SOUTH)		146	42			146				102	128	18		
			HYPOINT		373			83	290				20	25	265		
			LIBERTY RIDGE (SOUTH)		181	41			181				351	439	-258		
			LIBERTY RIDGE (EAST)		179	41			179				449	561	-382		
			LIBERTY RIDGE (WEST)		450	34			450				45	56	394		
			CIRCLE RD (NORTH)		177	37			177				1	1	175		
			CTH E		641			121	520				35	44	476		
			GREGORY LN		367			20	347				287	359	-11		
			ROGERS RD		196	42			196				897	1121	-925		
			PINE GROVE RD		124			51	73				492	615	-542		
			WELL LN		15				15				39	49	-34		
			MCGHAN RD		104			53	51				722	903	-851		
			DRIVEWAYS		66				66				2206	2758	-2692		
	STAGE 1 SUBTOTAL				73525		9452	328	73197	11025	7562	12288	137799	172249	-103777	0	103777
DIVISION 1 SUBTOTAL					73525		9452	328	73197	2680	7562	12288	137799	172249	-103777	0	103777
ITEM TOTALS					73525		9452	328	73197	13705	7562	12288	137799	172249	-103777	0	103777
				TOTAL COMMON EXC	82977				73525				CY				

1) COMMON EXCAVATION IS THE SUM OF THE CUT LESS PULVERIZED MATERIAL VOLUME, ITEM NUMBER 205.0100.
2) EBS EXCAVATION TO BE BACKFILLED WITH BORROW OR CUT MATERIAL
3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
4) EXPANDED FILL. FACTOR = 1.25
5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE STAGE. PLUS QUANTITY INDICATES EXCESS OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AT DIVISION WASTE. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE STAGE AND IS CATEGORIZED AS DIVISION BORROW. MASS ORDINATE IS AVAILABLE MATERIAL PLUS REDUCED EBS IN FILL, LESS ROCK EXCAVATION AND LESS EXPANDED FILL, ITEM NUMBER 208.0100.

DRIVEWAY ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON)	416.0160 CONCRETE DRIVEWAY 6-INCH (SY)	REMARKS
1650-06-73	0010	-	2066+95	LT	36	12	-	ASPH
			2069+45	RT	37	12	-	ASPH
			2072+10	RT	77	25	-	ASPH
			2076+60	RT	50	16	-	ASPH
			2085+97	RT	12	-	-	AGG
			2086+08	LT	18	6	-	ASPH
			2089+85	RT	71	-	-	AGG
			2091+13	LT	31	10	-	ASPH
			2094+81	RT	16	5	-	ASPH
			2096+44	RT	37	12	-	ASPH
			2099+48	RT	45	14	-	ASPH
			2103+06	RT	34	11	-	ASPH
			46+10'CM'	LT	13	4	-	ASPH
			2103+87	RT	43	14	-	ASPH
			2105+72	RT	49	16	-	ASPH
			2111+53	RT	44	14	-	ASPH
			2114+05	RT	41	-	-	AGG
			2117+77	RT	34	11	-	ASPH
			2121+45	RT	10	3	-	ASPH
			2154+78	LT	13	-	-	AGG
			2161+16	RT	21	-	-	AGG
			2161+39	LT	16	-	-	AGG
			2162+70	RT	39	-	-	AGG
			2164+20	LT	31	-	-	AGG
			2169+66	RT	29	-	-	AGG
			2194+30	LT	84	27	-	ASPH
			2197+54	RT	18	-	-	AGG
			2208+02	LT	14	-	-	AGG
			2213+43	RT	15	-	-	AGG
			2222+92	RT	13	-	-	AGG
			2223+94	RT	11	-	-	AGG
			2230+43	LT	69	-	-	AGG
			2230+80	RT	44	-	-	AGG
			2235+39	RT	16	-	-	AGG
			2243+70	LT	11	-	-	AGG
			2244+59	LT	12	-	-	AGG
			2249+55	LT	15	-	-	AGG
			2263+19	LT	21	-	-	AGG
			2263+25	RT	15	-	-	AGG
			2274+33	LT	29	-	-	AGG
			2274+59	RT	35	11	-	ASPH
			167+35'E'	RT	62	-	-	AGG
			2289+40	RT	12	-	-	AGG
			2300+84	LT	19	-	-	AGG
			2311+72	RT	18	-	-	AGG

DRIVEWAY ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON)	416.0160 CONCRETE DRIVEWAY 6-INCH (SY)	REMARKS
1650-06-73	0010	-	2323+44	RT	18	-	-	AGG
			2344+21	LT	19	-	-	AGG
			2358+62	LT	19	-	-	AGG
			2377+56	LT	15	-	-	AGG
			2382+08	RT	29	-	-	AGG
			2390+51	LT	9	-	-	AGG
			2402+39	LT	14	-	-	AGG
			2411+18	RT	37	-	-	AGG
			2412+26	LT	22	-	-	AGG
			2415+36	LT	13	-	-	AGG
			2415+37	RT	33	-	-	AGG
			2431+66	LT	34	-	-	AGG
			2449+52	LT	18	-	-	AGG
			2449+54	RT	98	-	-	AGG
			2467+64	LT	33	-	-	AGG
			2468+86	RT	32	-	-	AGG
			2480+30	LT	53	-	-	AGG
			2482+55	LT	39	-	-	AGG
			2488+49	RT	37	-	-	AGG
			2502+98	RT	16	-	-	AGG
			2514+85	LT	20	-	-	AGG
			2516+03	RT	11	-	-	AGG
			2523+82	RT	8	-	-	AGG
			2528+45	RT	10	-	-	AGG
			2530+16	RT	13	-	-	AGG
			2530+80	RT	17	-	-	AGG
			2531+35	RT	96	-	-	AGG
			2531+68	LT	25	-	-	AGG
			2539+28	RT	17	-	-	AGG
			2539+93	RT	16	-	-	AGG
			2540+18	LT	24	-	-	AGG
			2553+87	RT	34	11	-	ASPH
			2564+10	LT	23	-	-	AGG
			2567+33	RT	16	-	-	AGG
			2569+12	RT	22	-	-	AGG
			2576+61	RT	14	-	-	AGG
			2579+23	LT	21	-	-	AGG
			2581+07	LT	22	-	-	AGG
			2584+57	RT	20	-	-	AGG
			2589+36	LT	35	11	-	ASPH
			2592+88	RT	16	-	70	CONC
			2594+15	LT	12	4	-	ASPH
				PROJECT TOTALS	**2445**	**248**	**70**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BASE AGGREGATE

PROJECT NUMBER	CATEGORY	STATION - STATION	LOCATION	*305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)	312.0110 SELECT CRUSHED MATERIAL (TON)	371.1000.S QMP BASE AGGREGATE DENSE COMPACTION 1 1/4-INCH (TON)	**624.0100 WATER (MGAL)
1650-06-73	0010	2066+20 - 2079+00		126	99	-	99	3
		2079+00 - 2087+00		92	699	439	699	13
		2087+00 - 2116+00		328	993	481	993	20
		2116+00 - 2127+23		104	0	-	0	2
		2150+42 - 2234+00		806	15189	9763	15189	256
		2234+00 - 2258+00		195	0	-	0	4
		2258+00 - 2350+63.41		907	12019	6384	12019	194
		2350+94.57 - 2396+50		441	0	-	0	8
		2396+50 - 2496+00		964	18788	12030	18788	316
		2496+00 - 2504+50		86	0	-	0	2
		2504+50 - 2562+50		565	10707	6736	10707	179
		2562+50 - 2594+24		290	0	-	0	6
			CTH K	112	182	-	182	3
			ENTERPRISE	69	111	-	111	2
			COMMERCIAL	85	451	-	451	5
			BEMIS	58	77	-	77	1
			INDUSTRIAL	57	185	-	185	2
			CIRCLE (SOUTH)	73	232	-	232	3
			HYPOINT	121	475	-	475	6
			LIBERTY RIDGE (SOUTH)	91	371	-	371	4
			LIBERTY RIDGE (WEST)	82	337	-	337	4
			LIBERTY RIDGE (EAST)	87	287	-	287	4
			CIRCLE (NORTH)	77	295	-	295	3
			CTH E	0	146	126	146	1
			GREGORY	122	939	-	939	10
			ROGERS	82	309	-	309	4
			PINE GROVE	112	932	-	932	10
			WELLS	46	481	-	481	5
			MCGHAN	139	880	-	880	9
		PROJECT TOTALS		**6317**	**65185**	**35959**	**65185**	**1078**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** WATER CONVERSION IS 1 MGAL/100 TON OF BASE AGGREGATE DENSE MATERIAL. USE WATER FOR BASE COMPACTION AND DUST CONTROL

ASPHALTIC PAVEMENT ITEMS

PROJECT NUMBER	LOCATION	STATION - STATION	LOWER LAYER THICHKNESS (IN)	UPPER LAYER THICKNESS (IN)	455.0605 TACK COAT (GAL)	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS (LF)	460.6223 HMA PAVEMENT 3 MT 58-28 S (TON)	460.6224 HMA PAVEMENT 4 MT 58-28 S (TON)
1650-06-73	MAINLINE	2066+20 - 2079+00	3	2	302	-	1016	677
		2079+00 - 2087+00	3	2	177	-	595	397
		2087+00 - 2116+00	3	2	643	-	2162	1441
		2116+00 - 2128+40	3	2	248	-	833	556
		2150+40 - 2234+00	3	2	2171	8167	7293	4862
		2234+00 - 2258+00	3	2	481	-	1615	1077
		2258+00 - 2350+63.41	3	2	2424	3183	8145	5430
		2350+94.57 - 2396+50	3	2	911	-	3062	2041
		2396+50 - 2496+00	3	2	2608	9958	8763	5842
		2496+00 - 2504+50	3	2	170	-	571	381
		2504+50 - 2562+50	3	2	1499	5791	5037	3358
		2562+50 - 2594+24	3	2	636	-	2135	1424
	SIDE ROADS	CTH K	-	3	42	140	-	141
		ENTERPRISE ST	-	3	27	140	-	90
		COMMERCIAL RD	-	3	31	140	-	105
		BEMIS RD	-	3	23	155	-	76
		INDUSTRIAL DR	-	3	22	140	-	75
		CIRCLE RD (SOUTH)	-	3	27	130	-	90
		HYPOINT RD	-	3	43	130	-	144
		LIBERTY RIDGE (SOUTH)	-	3	33	140	-	111
		LIBERTY RIDGE (WEST)	-	3	30	140	-	100
		LIBERTY RIDGE (EAST)	-	3	32	140	-	106
		CIRCLE RD (NORTH)	-	3	28	140	-	95
		CTH E	3	2	46	130	156	104
		GREGORY LN	-	3	42	160	-	141
		ROGERS RD	-	3	28	135	-	95
		PINE GROVE RD	-	3	40	150	-	136
		WELLS LN	-	3	15	120	-	50
		MCGHAN RD	-	3	52	150	-	175
		PROJECT TOTALS			**12831**	**29479**	**41383**	**29316**

PULVERIZE AND RELAY

PROJECT NUMBER	STAGE	STATION - STATION	LOCATION	LAYER THICKNESS (IN)	325.0100 (SY)	374.1010.S QMP PULVERIZE AND RELAY COMPACTION	**624.0100 WATER (MGAL)
1650-06-73	-	2066+20 - 2079+00		6.5	6377	6377	32
		2079+00 - 2087+00		6.5	3706	3706	19
		2087+00 - 2116+00		6.5	13597	13597	68
		2116+00 - 2128+40		6.5	5744	5744	29
		2150+40 - 2234+00		6.5	30696	30696	153
		2234+00 - 2258+00		6.5	11117	11117	56
		2258+00 - 2350+63.41		6.5	42521	42521	213
		2350+94.57 - 2396+50		6.5	21101	21101	106
		2396+50 - 2496+00		6.5	36300	36300	182
		2496+00 - 2504+50		6.5	3933	3933	20
		2504+50 - 2562+50		6.5	21178	21178	106
		2562+50 - 2594+24		6.5	14703	14703	74
			CTH K	3.0	953	953	5
			ENTERPRISE ST	3.0	622	622	3
			COMMERCIAL RD	3.0	328	328	2
			BEMIS RD	3.0	487	487	2
			INDUSTRIAL DR	3.0	392	392	2
			CIRCLE RD (SOUTH)	3.0	442	442	2
			LIBERTY RIDGE (SOUTH)	3.0	439	439	2
			LIBERTY RIDGE (EAST)	3.0	433	433	2
			LIBERTY RIDGE (WEST)	3.0	363	363	2
			CIRCLE RD (NORTH)	3.0	448	448	2
			ROGERS RD	3.0	436	436	2
		PROJECT TOTALS			**216316**	**216316**	**1082**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** WATER CONVERSION IS 1 MGAL/100 TON OF BASE AGGREGATE DENSE MATERIAL. USE WATER FOR BASE COMPACTION AND DUST CONTROL

EXCESS PULVERIZED MATERIAL

PROJECT NUMBER	CATEGORY	LOCATION	DEPTH (IN)	LENGTH (FT)	WIDTH (FT)	SPV.0035.01 EXCESS PULVERIZED MATERIAL (CY)
1650-06-73	0010	STA 2066+20	5	125	36	34.7
		CTH K	5	125	30	28.9
		ENTERPRISE ST	5	125	30	28.9
		COMMERCIAL RD (SOUTH)	5	125	18	17.4
		BEMIS RD	5	125	51	49.2
		INDUSTRIAL DR	5	125	34	32.8
		STA 2128+40	5	125	36	34.7
		STA 2150+40	5	125	36	34.7
		CIRCLE RD (SOUTH)	3	75	22	7.6
		LIBERTY RIDGE RD (SOUTH)	3	75	18	6.3
		LIBERTY RIDGE RD (WEST)	3	75	18	6.3
		LIBERTY RIDGE RD (EAST)	3	75	20	6.9
		CIRCLE RD (NORTH)	3	75	22	7.6
		ROGERS RD	3	75	20	6.9
		STA 2594+24	5	125	45	43.4
		PROJECT TOTALS				346

CONCRETE SURFACE DRAINS

PROJECT NUMBER	CATEGORY	STAGE	STATION	OFFSET	LOCATION	416.1010 CONCRETE SURFACE DRAINS (CY)	*606.0200 RIPRAP MEDIUM (CY)	*645.0120 GEOTEXTILE FABRIC TYPE R (SY)
1650-06-73	0010	-	2225+00	RT	USH 61	0.8	2	11.6
			25+60 'K'	LT	CTH K	1.7	2	19.0
			25+73 'K'	RT	CTH K	1.5	2	17.8
			45+72 'CM'	LT	COMMERCIAL RD (SOUTH)	0.8	2	11.6
			45+95 'CM'	RT	COMMERCIAL RD (SOUTH)	0.8	2	11.3
			96+44 'CS'	RT	CIRCLE RD (SOUTH)	0.7	2	10.4
			96+45 'CS'	LT	CIRCLE RD (SOUTH)	0.6	2	9.8
			105+30 'HY'	RT	HYPOINT RD	0.9	2	12.4
			105+83 'HY'	LT	HYPOINT RD	0.6	2	9.8
			116+76 'LRS'	RT	LIBERTY RIDGE SOUTH	1.1	2	14.3
			116+90 'LRS	LT	LIBERTY RIDGE SOUTH	1.5	2	17.7
			137+87 'LRW'	LT	LIBERTY RIDGE WEST	1.0	2	13.1
			138+35 'LRW'	RT	LIBERTY RIDGE WEST	0.9	2	12.0
			125+85 'LRE'	LT	LIBERTY RIDGE EAST	0.9	2	12.0
			156+30 'CN'	LT	CIRCLE RD (NORTH)	0.7	2	10.0
			156+56 'CN'	RT	CIRCLE RD (NORTH)	0.6	2	9.7
			165+30 'E'	RT	CTH E	0.8	2	10.9
			165+75 'E'	LT	CTH E	0.9	2	12.2
			186+36 'RG'	LT	ROGERS RD	1.7	2	19.2
			195+71 'PG'	RT	PINE GROVE RD	1.2	2	14.7
			196+38 'PG'	LT	PINE GROVE RD	0.6	2	9.4
			215+30'MG'	LT	MCGHAN RD	1.1	2	13.6
			216+10 'MG'	RT	MCGHAN RD	0.4	2	7.3
					PROJECT TOTALS	**22**	**46**	**290**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLANS

RUMBLE STRIPS

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (LF)	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL (LF)
1650-06-73	0010	-	2066+20.00		2071+39.30	LT SHOULDER	519	-
			2066+20.00		2071+55.62	CENTERLINE	-	536
			2077+97.43		2081+29.76	CENTERLINE	-	332
			2079+24.80		2081+11.3	LT SHOULDER	189	-
			2087+31.10		2088+42.17	CENTERLINE	-	111
			2087+47.41		2101+61.69	LT SHOULDER	1414	-
			2090+75.70		2093+58.72	RT SHOULDER	283	-
			2097+23.20		2098+10.57	RT SHOULDER	87	-
			2097+73.20		2098+10.57	CENTERLINE	-	37
			2100+34.57		2101+71.65	RT SHOULDER	137	-
			2100+84.57		2101+80.11	CENTERLINE	-	96
			2106+73.58		2109+76.14	LT SHOULDER	303	-
			2112+41.55		2116+36.70	RT SHOULDER	395	-
			2113+56.70		2116+36.70	CENTERLINE	-	280
			2115+77.35		2128+40.00	LT SHOULDER	1257	-
			2118+66.08		2119+85.04	RT SHOULDER	120	-
			2119+16.08		2119+86.07	CENTERLINE	-	70
			2122+50.33		2128+40.00	RT SHOULDER	592	-
			2123+00.74		2128+40.00	CENTERLINE	-	539
			2150+40.00		2180+07.94	LT SHOULDER	2964	-
			2150+40.00		2179+82.70	CENTERLINE	-	2943
			2150+40.00		2162+23.31	RT SHOULDER	1187	-
			2163+18.97		2169+16.84	RT SHOULDER	599	-
			2170+13.25		2193+61.39	RT SHOULDER	2348	-
			2183+38.60		2193+07.87	LT SHOULDER	969	-
			2183+82.70		2192+35.43	CENTERLINE	-	853
			2195+90.90		2229+77.04	LT SHOULDER	3384	-
			2196+09.35		2213+03.83	RT SHOULDER	1699	-
			2196+35.43		2206+88.14	CENTERLINE	-	1053
			2209+14.21		2237+42.76	CENTERLINE	-	2829
			2213+81.83		2222+50.83	RT SHOULDER	869	-
			2223+37.23		2223+51.45	RT SHOULDER	14	-
			2224+37.50		2250+75.00	RT SHOULDER	2638	-
			2231+05.04		2237+63.48	LT SHOULDER	658	-
			2241+02.05		2243+21.69	LT SHOULDER	220	-
			2241+42.76		2250+33.59	CENTERLINE	-	891
			2244+07.37		2244+20.10	LT SHOULDER	13	-
			2245+06.84		2249+14.74	LT SHOULDER	408	-
			2249+98.16		2250+68.81	LT SHOULDER	71	-
			2253+78.02		2294+59.89	LT SHOULDER	4069	-
			2254+12.36		2262+84.84	RT SHOULDER	876	-
			2254+48.43		2273+22.46	CENTERLINE	-	1874
			2263+68.92		2273+23.13	RT SHOULDER	958	-
			2275+27.27		2294+91.18	RT SHOULDER	1964	-
			2275+77.37		2294+38.15	CENTERLINE	-	1861

RUMBLE STRIPS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (LF)	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL (LF)
0010	-	2297+96.43		2350+38.10	LT SHOULDER	5245	-
		2300+55.63		2344+67.66	CENTERLINE	-	4412
		2300+70.03		2344+97.60	RT SHOULDER	4427	-
		2348+66.53		2350+38.10	CENTERLINE	-	172
		2348+66.53		2350+38.10	RT SHOULDER	171	-
		2351+19.52		2426+06.76	RT SHOULDER	7478	-
		2354+20.47		2358+11.26	LT SHOULDER	392	-
		2354+66.37		2425+72.16	CENTERLINE	-	7105+45
		2359+12.84		2377+13.40	LT SHOULDER	1807	-
		2377+99.37		2414+65.08	LT SHOULDER	3666	-
		2416+53.08		2430+87.30	LT SHOULDER	1434	-
		2429+72.16		2430+37.30	CENTERLINE	-	65
		2429+57.55		2449+12.73	RT SHOULDER	1955	-
		2432+98.30		2466+84.18	LT SHOULDER	3385	-
		2432+98.30		2466+34.04	CENTERLINE	-	3336
		2449+98.77		2479+05.58	RT SHOULDER	2915	-
		2468+99.28		2479+45.70	LT SHOULDER	1044	-
		2468+99.28		2478+58.85	CENTERLINE	-	960
		2481+74.67		2481+90.10	LT SHOULDER	15	-
		2482+28.09		2502+48.93	RT SHOULDER	2027	-
		2482+56.21		2530+35.61	CENTERLINE	-	4780
		2483+20.46		2514+47.06	LT SHOULDER	3122	-
		2503+48.93		2515+55.12	RT SHOULDER	1207	-
		2515+27.77		2530+87.20	LT SHOULDER	1557	-
		2516+48.95		2529+70.88	RT SHOULDER	1324	-
		2531+77.58		2538+84.67	RT SHOULDER	708	-
		2532+73.51		2563+60.71	LT SHOULDER	3082	-
		2532+73.51		2552+59.08	CENTERLINE	-	1986
		2540+36.13		2552+59.08	RT SHOULDER	1223	-
		2554+62.60		2562+00.97	RT SHOULDER	741	-
		2555+12.60		2561+86.41	CENTERLINE	-	674
		2564+61.09		2578+80.99	LT SHOULDER	1426	-
		2565+72.51		2591+69.16	RT SHOULDER	2586	-
		2565+85.69		2588+08.68	CENTERLINE	-	2223
		2579+66.69		2588+58.70	LT SHOULDER	895	-
		2590+62.71		2593+71.66	LT SHOULDER	309	-
		2590+62.71		2591+69.18	CENTERLINE	-	106
		2593+59.06		2594+24.11	RT SHOULDER	65	-
		2594+09.12		2594+24.11	CENTERLINE	-	15
					PROJECT TOTALS	**85,414**	**33,031**

STEEL CULVERT ITEMS

PROJECT NUMBER	CATEGORY	INLET STATION	INLET OFFSET	INLET ELEV. (FT)	OUTLET STATION	OUTLET OFFSET	OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS (IN)	CULVERT PIPE CORRUGATED STEEL 521.0118 18-INCH (LF)	521.0124 24-INCH (LF)	521.0130 30-INCH (LF)	521.0136 36-INCH (LF)	521.0160 60-INCH (LF)	APRON ENDWALLS FOR CULVERT PIPE STEEL 521.1018 18-INCH (EACH)	521.1024 24-INCH (EACH)	521.1030 30-INCH (EACH)	521.1036 36-INCH (EACH)	521.1060 60-INCH (EACH)	*520.9700.S.002 CULVERT PIPE LINERS 36-INCH (LF)	520.9700.S.003 CULVERT PIPE LINERS 60-INCH (LF)	*633.5200 MARKERS CULVERT END (EACH)	*650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)
1650-06-73	0010	2067+15.95	39.19' LT	1113.72	2066+75.49	39.29' LT	1113.55	0.42%	0.064	40	–	–	–	–	2	–	–	–	–	–	–	–	–
		2071+68.02	47.60' RT	1111.44	2072+50.65	47.64' RT	1109.94	1.87%	0.064	80	–	–	–	–	2	–	–	–	–	–	–	–	–
		25+48.47'K'	51.68' LT	1110.15	25+61.27'K'	54.54' RT	1109.34	0.76%	0.064	–	107	–	–	–	–	2	–	–	–	–	–	2	1
		2076+85.11	48.27' RT	1111.50	2076+29.22	47.98' RT	1110.75	1.39%	0.064	54	–	–	–	–	2	–	–	–	–	–	–	–	–
		2086+27.29	44.59' LT	1121.37	2085+87.34	47.38' LT	1121.19	0.45%	0.064	40	–	–	–	–	2	–	–	–	–	–	–	–	–
		2090+27.40	39.05' RT	1124.92	2089+36.51	39.92' RT	1123.49	1.57%	0.064	91	–	–	–	–	2	–	–	–	–	–	–	–	–
		2091+34.53	39.46' LT	1123.00	2090+92.56	40.08' LT	1125.05	2.26%	0.064	42	–	–	–	–	2	–	–	–	–	–	–	–	–
		2095+00.00	40.38' RT	1127.92	2094+60.00	39.90' RT	1127.78	0.35%	0.064	40	–	–	–	–	2	–	–	–	–	–	–	–	–
		2096+65.77	41.37' RT	1128.45	2096+23.76	41.66' RT	1128.25	0.48%	0.064	42	–	–	–	–	2	–	–	–	–	–	–	–	–
		2099+70.25	38.27' RT	1130.02	2099+25.46	38.65' RT	1129.81	0.47%	0.064	45	–	–	–	–	2	–	–	–	–	–	–	–	–
		2103+67.92	36.94' RT	1130.83	2104+05.93	36.61' RT	1130.31	1.37%	0.064	38	–	–	–	–	2	–	–	–	–	–	–	–	–
		45+49.68'CM'	35.23' LT	1130.60	45+56.73'CM'	59.23' RT	1130.35	0.26%	0.064	95	–	–	–	–	2	–	–	–	–	–	–	2	1
		45+97.16'CM'	25.37' LT	1130.56	46+24.08'CM'	23.36' LT	1129.91	2.41%	0.064	27	–	–	–	–	2	–	–	–	–	–	–	–	–
		2105+45.19	45.53' RT	1129.70	2105+99.19	45.53' RT	1129.32	0.70%	0.064	54	–	–	–	–	2	–	–	–	–	–	–	–	–
		2111+90.64	37.37' RT	1133.10	2111+09.68	36.89' RT	1132.10	1.24%	0.064	81	–	–	–	–	2	–	–	–	–	–	–	–	–
		2114+27.30	37.60' RT	1134.48	2113+83.30	38.49' RT	1134.14	0.77%	0.064	44	–	–	–	–	2	–	–	–	–	–	–	–	–
		2154+92.39	37.57' LT	1129.33	2154+64.55	41.99' LT	1127.68	5.92%	0.064	28	–	–	–	–	2	–	–	–	–	–	–	–	–
		2161+01.99	47.62' RT	1117.45	2161+29.76	47.16' RT	1116.70	2.68%	0.064	28	–	–	–	–	2	–	–	–	–	–	–	–	–
		2161+24.25	32.11' LT	1115.30	2161+54.42	31.35' LT	1114.76	1.80%	0.064	30	–	–	–	–	2	–	–	–	–	–	–	–	–
		–	–	–	2163+89.75	60.89' RT	1101.28	4.20%	0.079	–	–	4	–	–	–	–	1	–	–	–	–	1	1
		2163+89.31	32.29' LT	1105.20	–	–	–	4.21%	–	–	–	–	–		–	–	1	–	–	–	–	1	1
		2167+51.73	41.13' LT	1097.00	–	–	–	8.33%	0.138	–	–	–	–	6	–	–	–	–	1	–	123	1	1
		–	–	–	2167+26.56	79.20' RT	1086.05	8.94%	–	–	–	–	–	–	–	–	–	–	1	–	–	1	1
		2169+91.80	50.29' RT	1107.00	2169+43.81	49.96' RT	1104.40	5.42%	0.064	48	–	–	–	–	2	–	–	–	–	–	–	–	–
		96+67.05'CS'	44.01' LT	1151.41	96+67.90'CS'	34.99' RT	1150.80	0.77%	0.064	79	–	–	–	–	2	–	–	–	–	–	–	2	1
		96+40.97'CS'	30.79' LT	1150.50	96+03.21'CS'	26.56' LT	1149.35	3.03%	0.064	38	–	–	–	–	2	–	–	–	–	–	–	–	–
		105+55.26'HY'	44.73' RT	1164.55	105+51.59'HY'	37.21' LT	1164.40	0.18%	0.064	–	82	–	–	–	–	2	–	–	–	–	–	2	1
		2197+45.46	47.65' RT	1160.08	2197+71.31	47.64' RT	1157.83	8.66%	0.064	–	26	–	–	–	–	2	–	–	–	–	–	–	–
		2230+24.50	67.17' LT	1097.16	2230+77.34	44.43' LT	1093.60	6.19%	0.064	58	–	–	–	–	2	–	–	–	–	–	–	–	–
		2230+58.05	42.79' RT	1096.70	2231+03.40	50.49' RT	1092.50	9.13%	0.064	46	–	–	–	–	2	–	–	–	–	–	–	–	–
		116+71.00'LRS'	35.88' RT	1080.50	116+77.27'LRS'	42.90' LT	1076.65	4.87%	0.064	79	–	–	–	–	2	–	–	–	–	–	–	2	1
		2243+85.22	32.14' LT	1092.00	2243+57.51	36.16' LT	1090.00	7.14%	0.064	28	–	–	–	–	2	–	–	–	–	–	–	–	–
		2244+72.70	32.14' LT	1096.10	2244+45.68	32.06' LT	1095.20	3.33%	0.064	27	–	–	–	–	2	–	–	–	–	–	–	–	–
		125+75.48'LRE'	48.43' LT	1119.86	125+41.06'LRE'	60.88' RT	1109.25	9.27%	0.064	–	115	–	–	–	–	2	–	–	–	–	–	2	1
		137+86.30'LRW'	44.63' LT	1119.35	138+00.09'LRW'	29.10' RT	1119.08	0.36%	0.064	75	–	–	–	–	2	–	–	–	–	–	–	2	1
		2263+31.82	44.82' LT	1122.41	2263+07.44	44.39' LT	1122.05	1.50%	0.064	24	–	–	–	–	2	–	–	–	–	–	–	–	–
		2263+38.63	32.55' RT	1124.95	2263+12.97	34.03' RT	1123.65	5.00%	0.064	26	–	–	–	–	2	–	–	–	–	–	–	–	–
		2274+46.43	47.67' LT	1136.52	2274+18.32	47.70' LT	1136.16	1.28%	0.064	28	–	–	–	–	2	–	–	–	–	–	–	–	–
		2320+76.74	55.44' LT	1052.98	–	–	–	2.26%	0.079	–	–	–	12	–	–	–	–	1	–	–	–	1	1
		–	–	–	2321+80.15	106.54' RT	1025.82	0.20%	0.168	–	–	–	58	–	–	–	–	1	–	192	–	1	1
		2344+09.42	43.03' LT	928.90	2344+35.27	42.10' LT	927.40	5.73%	0.064	26	–	–	–	–	2	–	–	–	–	–	–	–	–
		175+92.20'GL'	41.47' RT	918.70	175+40.84	37.82' LT	917.80	0.98%	0.064	92	–	–	–	–	2	–	–	–	–	–	–	2	1
		186+40.25'RG'	48.05' LT	914.00	186+47.95'RG'	48.64' RT	912.70	1.34%	0.064	97	–	–	–	–	2	–	–	–	–	–	–	1	1
		186+43.63'RG'	48.8' LT	914.10	186+51.38'RG'	50.99' RT	912.50	1.60%	0.064	100	–	–	–	–	2	–	–	–	–	–	–	1	1
		2415+47.62	32.53' LT	982.80	2415+22.61	32.53' LT	982.60	0.80%	0.064	25	–	–	–	–	2	–	–	–	–	–	–	–	–
		2449+65.31	54.63' RT	984.97	2449+42.45	56.46' RT	983.10	8.12%	0.064	23	–	–	–	–	2	–	–	–	–	–	–	–	–
		2467+38.46	37.82' LT	983.70	2467+93.99	47.40' LT	980.14	6.37%	0.064	56	–	–	–	–	2	–	–	–	–	–	–	–	–
		2531+54.09	84.23' LT	1018.50	2531+24.43	90.70' LT	1018.20	1.00%	0.138	–	–	–	–	30	–	–	–	–	2	–	–	–	–
		2531+55.96	92.56' LT	1018.50	2531+26.28	99.04' LT	1018.20	1.00%	0.138	–	–	–	–	30	–	–	–	–	2	–	–	–	–
		2540+04.58	39.51' RT	1036.33	2539+80.72	42.92' RT	1035.84	2.03%	0.064	24	–	–	–	–	2	–	–	–	–	–	–	–	–
		2563+16.51	39.70' LT	1060.22	–	–	–	4.79%	–	–	–	–	–	–	–	1	–	–	–	–	–	–	1
		–	–	–	2563+13.01	32.55' RT	1056.76	4.79%	0.064	–	4	–	–	–	–	1	–	–	–	–	–	1	1
							PROJECT TOTAL			**1898**	**334**	**4**	**70**	**66**	**76**	**10**	**2**	**2**	**6**	**192**	**123**	**25**	**18**
																					*		*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE CULVERT ITEMS

PROJECT NUMBER	CATEGORY	INLET STATION	INLET OFFSET	INLET ELEV. (FT)	OUTLET STATION	OUTLET OFFSET	OUTLET ELEV. (FT)	SLOPE (%)	CULVERT PIPE REINFORCED CONCRETE CLASS III 522.0124 24-INCH (LF)	522.0130 30-INCH (LF)	522.0136 36-INCH (LF)	522.0142 42-INCH (LF)	522.0148 48-INCH (LF)	APRON ENDWALLS FOR REINFORCED CONCRETE *522.1036 24-INCH (EACH)	522.1030 30-INCH (EACH)	522.1036 36-INCH (EACH)	522.1042 42-INCH (EACH)	522.1048 48-INCH (EACH)	CULVERT PIPE SALVAGED 524.0124 24-INCH (LF)	524.0130 30-INCH (LF)	524.0136 36-INCH (LF)	524.0142 42-INCH (LF)	524.0148 48-INCH (LF)	524.0624 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH (EACH)	520.9700.S.001 CULVERT PIPE LINERS 24-INCH (EACH)	*520.9700.S.002 CULVERT PIPE LINERS 36-INCH (EACH)	*633.5200 MARKERS CULVERT END (EACH)	520.8000 CONCRETE COLLARS FOR PIPE (EACH)	*650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)
1650-06-73	0010	26+89.07'K'	35.86' RT	1110.89	26+51.12'K'	37.91' RT	1110.57	0.84%	38	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	-	1
		2074+31.44	49.23' LT	1108.32	--	--	--	2.00%	4	--	--	--	--	1	--	--	--	--	16	--	--	--	--	--	--	--	1	1
		--	--	--	2074+34.29	44.13' RT	1107.13	2.10%	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	1
		--	--	--	2126+21.80	42.08' RT	1124.34	1.67%	8	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2126+23.11	34.11' LT	1125.25	--	--	--	1.50%	6	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2154+58.02	34.37' LT	1127.15	--	--	--	1.00%	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2154+64.51	49.73' RT	1126.83	0.35%	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2207+85.93	30.28' LT	1112.58	--	--	--	3.00%	4	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	--	1	1
		--	--	--	2207+91.29	55.35' RT	1110.10	2.88%	24	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2217+64.06	62.39' LT	1093.52	--	--	--	12.45%	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2217+44.95	132.25' RT	1071.80	7.38%	52	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2231+67.56	51.09' LT	1082.00	--	--	--	11.92%	--	--	12	--	--	--	--	1	--	--	--	--	--	--	--	--	--	184	1	1
		--	--	--	2232+95.91	80.49' RT	1067.80	1.77%	--	--	26	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	1	1
		2240+64.03	66.08' LT	1066.70	--	--	--	7.57%	14	--	--	--	--	1	--	--	--	--	24	--	--	--	--	166	--	--	1	1
		--	--	--	2240+39.18	98.21' RT	1056.10	5.98%	32	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2249+82.17	31.61' LT	1111.50	--	--	--	5.50%	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2249+90.50	60.50' RT	1103.50	5.35%	20	--	--	--	--	1	--	--	--	--	24	--	--	--	--	--	--	--	1	1
		2259+82.02	41.62' LT	1115.36	--	--	--	8.80%	4	--	--	--	--	1	--	--	--	--	16	--	--	--	--	--	--	--	1	1
		--	--	--	2259+89.82	70.20' RT	1106.46	4.59%	22	--	--	--	--	1	--	--	--	--	24	--	--	--	--	--	--	--	1	1
		2276+09.61	41.28' RT	1134.69	--	--	--	2.77%	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2276+40.02	52.96' LT	1131.94	2.75%	22	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2286+84.43	72.92' LT	1125.59	4.29%	12	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2360+79.43	29.52' LT	921.20	--	--	--	2.83%	--	6	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		--	--	--	2360+76.17	29.75' RT	919.70	3.00%	--	4	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		2363+99.19	29.39' LT	922.20	--	--	--	1.67%	--	--	6	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2363+90.17	24.76' RT	921.38	1.47%	--	--	--	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	1	1
		2368+49.51	31.62' LT	925.76	--	--	--	2.86%	8	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2368+43.51	30.63' RT	924.05	2.50%	6	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2374+03.19	31.98' LT	928.35	--	--	--	2.50%	--	--	--	8	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2374+03.38	29.81' RT	926.95	2.50%	--	--	--	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1
		2377+77.28	29.48' LT	932.80	--	--	--	3.33%	--	--	6	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2377+79.20	31.41' RT	930.52	3.58%	--	--	6	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	1	1
		2395+85.07	28.78' LT	937.30	--	--	--	0.50%	--	4	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		--	--	--	2395+71.78	29.60' RT	937.10	0.32%	--	--	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		2395+89.79	28.05' LT	937.67	--	--	--	1.25%	--	4	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		--	--	--	2395+76.03	30.02' RT	936.69	1.67%	--	--	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	1	1
		2402+60.46	24.84' LT	945.57	--	--	--	1.64%	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	1
		--	--	--	2402+56.09	40.19' RT	944.50	1.67%	--	--	--	--	12	--	--	--	--	--	1	--	--	--	--	--	--	--	1	1
		2422+78.08	26.89' LT	972.63	--	--	--	1.83%	--	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2422+76.42	43.04' RT	971.45	1.68%	--	16	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	1
		2431+32.91	28.95' LT	957.35	--	--	--	1.00%	--	--	--	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2431+32.03	44.41' RT	956.60	1.25%	--	--	--	16	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1
		2461+01.36	54.56' LT	987.20	--	--	--	6.37%	--	--	--	--	8	--	--	--	--	--	1	--	--	--	--	--	--	--	1	1
		--	--	--	2461+07.51	101.88' RT	976.70	3.42%	--	--	--	--	36	--	--	--	--	--	1	--	--	--	24	--	--	--	1	1
		2488+80.95	28.74' LT	987.44	--	--	--	2.00%	--	--	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2488+80.15	50.17' RT	986.16	1.00%	--	--	22	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	1
		2503+26.14	30.29' RT	993.45	--	--	--	1.25%	--	--	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	1
		2514+31.44	39.51' RT	1003.10	--	--	--	2.50%	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2514+32.36	49.74' LT	1002.20	0.87%	16	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2517+71.83	41.30' RT	1006.38	--	--	--	1.50%	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2517+82.60	47.72' LT	1005.93	0.72%	14	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2524+00.28	28.35' RT	1018.12	--	--	--	2.38%	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2523+95.63	43.44' LT	1016.45	2.13%	16	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2535+93.25	33.05' RT	1031.40	--	--	--	4.38%	8	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2535+92.20	49.92' LT	1027.60	4.33%	18	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		2546+49.68	24.83' RT	1042.72	--	--	--	6.92%	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2546+48.16	54.13' LT	1037.25	6.92%	--	--	--	16		--	--	--	1	--	--	--	24	--	--	--	--	--	1	1
		2576+84.97	28.39' RT	1110.15	--	--	--	3.75%	4	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1
		--	--	--	2576+58.67	40.47' LT	1107.85	2.50%	6	--	--	--	--	1	--	--	--	--	8	--	--	--	--	--	--	--	1	1
						PROJECT TOTAL			374	38	86	48	56	32 *	8	9	6	4	120	48	24	24	24	1	166	184 *	55 *	58	59 *

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE CURB & GUTTER

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D (LF)	601.0415 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE J (LF)	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (LF)	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D (LF)	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)
1650-06-73	0010	-				CTH K INTERSECTION	-	-	-	146	-	146
			26+49'K'	-	26+87'K'	DRIVEWAY	57	-	-	-	-	-
			35+14'EN'	-	36+37'EN'	ENTERPRISE ST	-	-	-	273	-	273
						COMMERCIAL RD INTERSECTION	-	-	-	159	-	159
						BEMIS RD INTERSECTION	-	-	-	157	-	157
			65+17'IN'	-	66+04'IN'	INDUSTRIAL DR	-	-	-	213	-	213
						CIRCLE RD (SOUTH) INTERSECTION	-	-	-	151	-	151
						HYPOINT RD INTERSECTION	-	-	-	147	-	147
			2223+25	-	2225+00	RT	-	-	175	-	-	175
						LIBERTY RIDGE (SOUTH) INTERSECTION	-	-	-	160	-	160
			2245+50	-	2249+40	LT	-	-	390	-	-	390
						LIBERTY RIDGE (EAST) INTERSECTION	-	-	-	148	-	148
						LIBERTY RIDGE (WEST) INTERSECTION	-	-	-	157	-	157
						CIRCLE RD (NORTH) INTERSECTION	-	-	-	154	-	154
						CTH E INTERSECTION	-	-	-	150	-	150
						ROGERS RD	-	-	-	87	-	87
						PINE GROVE RD INTERSECTION	-	-	-	170	-	170
			215+16'MG'	-	216+65'MG'	MCGHAN RD INTERSECTION	-	62	-	132	64	258
						STAGE SUBTOTALS	57	62	565	2,404	64	3,095
						PROJECT TOTALS	**57**	**62**	**565**	**2,404**	**64**	**3,095**

STORM SEWER

PROJECT NUMBER	CATEGORY	STAGE	FROM STRUCTURE NO.	-	TO STRUCTURE NO.	INLET ELEV	OUTLET ELEV	SLOPE %	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF
1650-06-73	0010	-	2A	-	2B				136	-
			1A	-	1B	1060.60	1060.48	0.21%	-	56
			1B	-	1C	1060.48	1060.44	0.21%	-	19
			1C	-	1D	1060.44	1060.37	0.22%	-	33
			1D	-	1E	1060.37	1060.30	0.39%	-	18
								STAGE SUBTOTALS	136	126
								PROJECT TOTAL	**136**	**126**

3

GUARDRAIL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 (LF)	614.2500 MGS THRIE BEAM TRANSITION (LF)	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH)
1650-06-73	0010	-	2349+03.60	-	2350+63.10	RT	67	40	1
			2349+71.21	-	2350+63.73	LT	-	40	1
			2350+94.52	-	2351+87.04	RT	-	40	1
			2350+94.62	-	2351+87.24	LT	-	40	1
						STAGE SUBTOTALS	67	160	4
						PROJECT TOTALS	**67**	**160**	**4**

FENCE SAFETY

PROJECT NUMBER	CATEGORY	LOCATION	616.0700.S (LF)	REMARKS
1650-06-73	0010	STA 2159+80 - STA 2160+95	118	ARCHEOLOGICAL SITE
			118	

STORM SEWER STRUCTURE SCHEDULE

PROJECT NUMBER	CATEGORY	STAGE	STRUCT. NO.	STATION	OFFSET	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	*522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)	611.3004 INLETS 4-FT DIAMETER (EACH)	611.3903 INLETS MEDIAN 3 GRATE (EACH)	611.0615 INLET COVERS TYPE F (EACH)	611.0630 INLET COVERS TYPE HM-GJ	611.0642 INLET COVERS TYPE MS	611.8110 ADJUSTING MANHOLE COVERS (EACH)	650.4000 CONSTRUCTION STAKING STORM SEWER (EACH)	COMMENTS
1650-06-03	0010	-	-	57+50'BM'	26' LT	-	-	-	-	-	-	-	1		
			-	65+50'IN'	20' LT	-	-	-	-	-	-	-	1		
			2A	2112+30.61	36.3' LT	-	-	-	1	-	-	3	-	1	
			2B	2110+88.77	40.93' LT	1	-	-	-	-	-	-	-	1	
			1A	215+36'MG'	38.4' LT	-	1	-	-	-	-	-	-	1	
			1B	215+27'MG'	17.1' RT	-	-	1	-	-	1	-	-	1	
			1C	215+31'MG'	35.7' RT	-	-	1	-	-	1	-	-	1	3' X 6' DOUBLE INLET
			1D	215+76'MG'	58.3' RT	-	-	1	-	1	-	-	-	1	
			1E	216+06'MG'	67.4' RT	-	1	-	-	-	-	-	-	1	
					STAGE SUBTOTALS	1	2	3	1	1	2	3	2	7	
					PROJECT TOTAL	**1**	**2**	**3**	**1**	**1**	**2**	**3**	**2**	**7**	

EROSION CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	- STATION	LOCATION	*606.0200 RIPRAP MEDIUM (CY)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2002 EROSION MAT CLASS I TYPE A (SY)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7020 INLET PROTECTION TYPE D (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECKS (EACH)	628.7560 TRACKING PADS (EACH)	*645.0130 GEOTEXTILE FABRIC TYPE R (SY)
1650-06-73	0010	-	2066+20		LT/RT	-	-	-	-	-	-	-	20	-	-	-
			2067+16		LT	-	-	-	-	-	-	-	-	4	-	-
			2071+65		RT	-	-	-	-	-	-	-	-	4	-	-
			25+53'K'		LT	-	-	-	-	-	-	-	-	4	-	-
			26+82'K'		LT	-	-	-	-	-	-	-	10	-	-	-
			26+89'K'		RT	-	-	-	-	-	-	-	-	4	-	-
			2073+50	- 2075+50	RT	-	168	168	-	-	-	-	10	-	-	-
			2074+31		RT	-	-	-	-	-	-	-	-	4	-	-
			2076+85		RT	-	-	-	-	-	-	-	-	3	-	-
			2081+00	- 2088+00	RT	-	648	648	673	-	-	-	-	-	-	-
			2081+66		LT	-	-	-	42	-	-	-	-	-	-	-
			2084+32		LT	-	-	-	33	-	-	-	-	-	-	-
			2086+32		LT	-	-	-	-	-	-	-	-	3	-	-
			2090+34		RT	-	-	-	-	-	-	-	-	3	-	-
			2091+40		LT	-	-	-	-	-	-	-	-	3	-	-
			2095+00	- 2103+25	LT	-	828	828	-	-	-	-	-	-	-	-
			2095+06		RT	-	-	-	-	-	-	-	-	3	-	-
			2096+72		RT	-	-	-	-	-	-	-	-	3	-	-
			2099+77		RT	-	-	-	-	-	-	-	-	3	-	-
			45+50'CM'		LT	-	-	-	-	-	-	-	-	3	-	-
			46+78'CM'		LT/RT	-	-	-	-	-	-	-	20	-	-	-
			2103+63		RT	-	-	-	-	-	-	-	-	3	-	-
			2104+50	- 2108+00	LT	-	353	353	-	-	-	-	-	-	-	-
			2105+40		RT	-	-	-	-	-	-	-	-	3	-	-
			2107+42		RT	-	-	-	-	-	-	-	-	2	-	-
			2108+78		RT	-	-	-	-	-	-	-	-	2	-	-
			2111+95		RT	-	-	-	-	-	-	-	-	3	-	-
			2112+26		LT	-	-	-	-	-	1	1	-	-	-	-
			2114+32		RT	-	-	-	-	-	-	-	-	3	-	-
			2118+50	- 2126+54	RT	-	768	768	-	-	-	-	-	-	-	-
			2126+23		LT	-	-	-	-	-	-	-	-	4	-	-
			2154+00	- 2156+00	RT	-	218	218	-	-	-	-	-	-	-	-
			2154+57		LT	-	-	-	-	-	-	-	-	4	-	-
			2154+96		LT	-	-	-	-	-	-	-	-	3	-	-
			2158+50	- 2161+00	RT	-	-	-	553	-	-	-	40	3	-	-
			2161+20		LT	-	-	-	-	-	-	-	-	3	-	-
			2162+51		RT	-	-	-	-	-	-	-	-	3	-	-
			2163+67	- 2169+43	RT	-	660	660	-	-	-	-	-	-	-	-
			2163+90		LT/RT	5.4	-	-	-	-	-	-	-	4	-	17.9
			2167+27		LT/RT	14.7	-	-	-	-	-	-	-	12	-	40.9
			2169+00	- 2173+00	LT	-	413	413	-	-	-	-	-	-	-	-
			2169+95	- 2179+00	RT	-	-	-	1090	-	-	-	180	3	-	-
			96+67'CS'	- 95+62	LT/RT	-	-	-	-	-	-	-	20	6	-	-
			2183+00	- 2189+25	RT	-	550	550	-	-	-	-	10	-	-	-
			2193+75	- 2199+00	LT	-	426	426	-	-	-	-	-	3	-	-
			105+55'HY'		RT	-	-	-	-	-	-	-	-	4	-	-
			108+00'HY'		RT	-	-	-	-	-	-	-	10	-	-	-
			2197+00	- 2200+50	RT	-		0	-	-	-	-	50	4	-	-
			2201+00	- 2213+15	RT	-	1228	1228	2678	-	-	-	-	-	-	-
			2207+87		LT/RT	3.3	-	-	112	-	-	-	-	4	-	12.0
			2208+00	- 2214+25	LT	-	-	-	449	-	-	-	40	-	-	-
			2214+90	- 2222+00	RT	-	785	785	2566	-	-	-	10	-	-	-
			2217+65		LT	-	-	-	-	-	-	-	-	4	-	-
			2221+00	- 2228+25	LT	-	-	-	1158	-	-	-	50	-	-	-
			2223+25	- 2223+87	RT	-	62	62	-	-	-	-	-	-	-	-
			2226+50	- 2230+50	RT	-	-	-	1311	-	-	-	50	-	-	-
			2230+19		LT	-	-	-	-	-	-	-	-	3	-	-
			2230+58		RT	-	-	-	-	-	-	-	-	3	-	-
			2231+64		LT	-	-	-	-	-	-	-	-	5	-	-
			2232+50	- 2235+33	RT	6.2	295	295	749	-	-	-	-	-	-	19.8
			2235+53	- 2236+00	RT	-	54	54	-	-	-	-	-	-	-	-
			2236+50		LT	-	-	-	-	-	-	-	10	-	-	-
			2237+85	- 2238+95	LT	-	-	-	261	-	-	-	10	3	-	-
			116+71'LRS'		RT	-	-	-	-	-	-	-	-	3	-	-
			2239+00	- 2241+52	RT	3.3	442	442	1244	-	-	-	-	-	-	12.0
			2240+10	- 2241+31	LT	-	-	-	656	-	-	-	-	4	-	-
			2243+90		LT	-	-	-	-	-	-	-	-	3	-	-
			2244+77		LT	-	-	-	-	-	-	-	-	3	-	-
			2245+00	- 2248+00	RT	-	-	-	202	-	-	-	50	-	-	-
			2247+00	- 2247+25	LT	-	-	-	36	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

EROSION CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	- STATION	LOCATION	*606.0200 RIPRAP MEDIUM (CY)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2002 EROSION MAT CLASS I TYPE A (SY)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7020 INLET PROTECTION TYPE D (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECKS (EACH)	628.7560 TRACKING PADS (EACH)	*645.0130 GEOTEXTILE FABRIC TYPE R (SY)
1650-06-73	0010	-	2248+74	- 2251+61	RT	-	464	464	1076	-	-	-	-	-	-	-
			2249+91		LT/RT	4.0	-	-	-	-	-	-	-	4	-	14.0
			125+75'LRE'		LT	-	-	-	-	-	-	-	-	4	-	-
			137+86'LRW'		LT	-	-	-	-	-	-	-	-	3	-	-
			2253+88	- 2255+50	LT	-	-	-	728	-	-	-	10	-	-	-
			2257+00	- 2263+50	RT	-	728	728	820	-	-	-	-	3	-	-
			2259+85		LT	-	-	-	-	-	-	-	-	4	-	-
			2263+00	- 2272+60	LT/RT	-	-	-	-	-	-	-	140	3	-	-
			2274+00	- 2274+47	RT	-	56	56	-	-	-	-	-	-	-	-
			2274+50	- 2281+70	LT	-	741	741	-	-	-	-	-	3	-	-
			2274+90	- 2280+00	RT	-	511	511	-	-	-	-	-	4	-	-
			2284+50	- 2290+00	LT	-	600	600	-	-	-	-	-	-	-	-
			2286+85		RT	-	-	-	-	-	-	-	-	4	-	-
			2295+80	- 2297+90	RT	-	218	218	-	-	-	-	-	-	-	-
			155+84'CN'		LT/RT	-	-	-	-	-	-	-	20	-	-	-
			2298+50	- 2300+65	LT	-	-	-	-	-	-	-	20	3	-	-
			167+43'E'		LT/RT	-	-	-	-	-	-	-	20	-	-	-
			2302+00	- 2311+55	RT	-	935	935	2219	-	-	-	-	3	-	-
			2305+83		LT	-	-	-	-	-	-	-	-	6	-	-
			2306+50	- 2310+00	LT	-	-	-	1700	-	-	-	50	-	-	-
			2310+50	- 2318+00	LT	-	-	-	434	613	-	-	40	-	-	-
			2312+50	- 2317+50	RT	-	-	-	-	556	-	-	-	-	-	-
			2319+50	- 2323+23	RT	-	460	460	1212	-	-	-	-	-	-	-
			2320+75	- 2324+50	LT	-	-	-	617	353	-	-	-	-	-	-
			2321+12		LT/RT	7.1	-	-	-	-	-	-	-	5	-	22.2
			2328+00	- 2329+00	LT	-	-	-	-	177	-	-	-	-	-	-
			2332+00	- 2339+00	RT	-	805	805	1876	-	-	-	-	-	-	-
			2332+76		LT	-	-	-	-	-	-	-	-	6	-	-
			2333+50	- 2344+07	LT	-	-	-	1008	1001	-	-	-	3	-	-
			2345+50	- 2350+63	LT	-	575	575	752	-	-	-	-	-	-	-
			175+92'GL'		RT	-	-	-	-	-	-	-	-	3	-	-
			2348+00	- 2350+63	RT	-	377	377	445	-	-	-	-	-	-	-
			2350+95	- 2352+46	LT	-	206	206	742	-	-	-	-	-	-	-
			2350+95	- 2382+02	RT	-	3283	3283	298	-	-	-	-	-	-	-
			186+40'RG'		LT	-	-	-	-	-	-	-	-	3	-	-
			186+44'RG'		LT	-	-	-	-	-	-	-	-	3	-	-
			2353+35	- 2358+45	LT	-	529	529	-	-	-	-	-	-	-	-
			2360+76		LT/RT	5.4	-	-	-	-	-	-	-	4	-	17.9
			2361+49		LT	-	-	-	-	-	-	-	10	-	-	-
			2364+00		LT	-	-	-	-	-	-	-	-	5	-	-
			2364+50	- 2371+00	LT	-	-	-	-	-	-	-	30	4	-	-
			2374+03		LT	-	-	-	-	-	-	-	-	6	-	-
			2377+77		LT	-	-	-	-	-	-	-	-	5	-	-
			2382+29	- 2391+00	RT	-	1686	1686	-	-	-	-	-	-	-	-
			2390+34		LT	-	-	-	-	-	-	-	-	3	-	-
			2395+85		LT	-	-	-	-	-	-	-	-	4	-	-
			2395+90		LT	-	-	-	-	-	-	-	-	4	-	-
			2402+61	- 2406+00	LT	-	343	343	-	-	-	-	-	7	-	-
			2410+00	- 2410+95	RT	-	110	110	-	-	-	-	-	-	-	-
			2411+30	- 2415+22	RT	-	409	409	-	-	-	-	-	-	-	-
			2412+78		LT	-	-	-	42	-	-	-	-	-	-	-
			2415+54		LT	-	-	-	-	-	-	-	-	3	-	-
			2415+55	- 2427+32	RT	-	1465	1465	1104	-	-	-	-	-	-	-
			2417+00	- 2421+76	LT	-	-	-	1691	-	-	-	30	-	-	-
			2422+78		LT	-	-	-	-	-	-	-	-	4	-	-
			2424+00	- 2429+05	LT	-	-	-	390	-	-	-	50	-	-	-
			2428+40	- 2432+50	RT	-	555	555	-	-	-	-	-	-	-	-
			2431+32		LT	-	-	-	-	-	-	-	-	6	-	-
			2432+50	- 2433+00	LT/RT	-	-	-	148	-	-	-	20	6	-	-
			2433+75	- 2449+21	RT	-	1678	1678	-	-	-	-	-	-	-	-
			2432+00	- 2444+00	LT	-	1227	1227	-	-	-	-	-	-	-	-
			2447+00	- 2449+70	LT	-	197	197	139	-	-	-	-	3	-	-
			2449+72	- 2450+50	RT	-	215	215	-	-	-	-	-	3	-	-
			2451+00	- 2459+50	RT	-	-	-	1507	117	-	-	60	-	-	-
			2452+00	- 2459+50	LT	-	-	-	3622	114	-	-	50	-	-	-
			2454+50	- 2457+50	RT	-	-	-	1461	-	-	-	-	-	-	-
			2459+75	- 2462+52	RT	-	312	312	1050	-	-	-	-	-	-	-
			2461+03		LT/RT	6.0	-	-	-	-	-	-	-	7	-	19.0
			2463+75	- 2467+32	LT	-	-	-	1409	-	-	-	40	3	-	-
			2466+00	- 2468+74	RT	-	300	300	-	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

EROSION CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	*606.0200 RIPRAP MEDIUM (CY)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2002 EROSION MAT CLASS I TYPE A (SY)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7020 INLET PROTECTION TYPE D (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECKS (EACH)	628.7560 TRACKING PADS (EACH)	*645.0130 GEOTEXTILE FABRIC TYPE R (SY)
1650-06-73	0010	-	2468+50	-	2480+08	LT	-	1151	1151	-	-	-	-	-	6	-	-
			2468+97	-	2480+05	RT	-	1210	1210	68	-	-	-	-	-	-	-
			2480+95	-	2488+39	RT	-	790	790	-	-	-	-	-	-	-	-
			2480+57	-	2482+36	LT	-	186	186	-	-	-	-	-	6	-	-
			2483+00	-	2487+50	LT	-	446	446	-	-	-	-	-	-	-	-
			2488+67	-	2500+00	RT	-	1221	1221	-	-	-	-	-	-	-	-
			2488+81			LT	-	-	-	-	-	-	-	-	5	-	-
			2490+50	-	2492+50	LT	-	-	-	448	-	-	-	20	-	-	-
			2496+50	-	2497+35	LT	-	141	141	-	-	-	-	-	-	-	-
			2497+42	-	2514+72	LT	-	1811	1811	-	-	-	-	-	-	-	-
			2503+30			RT	-	-	-	-	-	-	-	-	5	-	-
			2514+31			RT	-	-	-	-	-	-	-	-	4	-	-
			2514+93	-	2531+62	LT	-	1698	1698	-	-	-	-	-		-	-
			2517+71			RT	-	-	-	-	-	-	-	-	4	-	-
			2524+00			RT	-	-	-	-	-	-	-	-	4	-	-
			2528+68			RT	-	-	-	-	-	-	-	-	3	-	-
			2530+47			RT	-	-	-	-	-	-	-	-	6	-	-
			2530+99			RT	-	-	-	-	-	-	-	-	3	-	-
			2531+54			RT	-	-	-	-	-	-	-	-	3	-	-
			2532+00	-	2540+07	LT	-	873	873	-	-	-	-	-		-	-
			2534+60	-	2535+10	LT	31.0	-	-	-	-	-	-	-	-	-	64
			2535+94			RT	-	-	-	-	-	-	-	-	4	-	-
			2539+55			RT	-	-	-	207	-	-	-	-		-	-
			2539+39	-	2539+80	RT	-	-	-	230	-	-	-	-	-	-	-
			2540+11			RT	-	-	-	-	-	-	-	-	3	-	-
			2540+33	-	2563+00	LT	-	2320	2320	-	-	-	-	-	-	-	-
			2546+00	-	2551+00	RT	-	-	-	2668	-	-	-	20	6	-	-
			2554+13			RT	-	-	-	-	-	-	-	-	3	-	-
			2556+00	-	2561+50	RT	-	-	-	1322	-	-	-	30	-	-	-
			2563+13			RT	-	-	-	-	-	-	-	-	4	-	-
			2563+39	-	2567+47	LT	-	-	-	1909	-	-	-	-	-	-	-
			2563+49			RT	-	-	-	-	-	1	1	-	-	-	-
			2563+77			RT	-	-	-	-	-	1	1	-	-	-	-
			2563+96			RT	-	-	-	-	-	1	1	-	-	-	-
			2564+55			RT	-	-	-	-	-	-	-	-	4	-	-
			2567+70			RT	-	-	-	-	-	-	-	-	6	-	-
			2567+87	-	2568+98	RT	-	120	120	-	-	-	-	-	-	-	-
			2568+00	-	2577+00	LT	-	988	988	3375	-	-	-	-	-	-	-
			2569+31			RT	-	-	-	-	-	-	-	-	3	-	-
			2569+12	-	2573+00	RT	-	382	382	-	-	-	-	-	-	-	-
			2576+88			RT	-	-	-	-	-	-	-	-	4	-	-
			2578+00	-	2584+00	RT	-	-	-	-	112	-	-	40	-	-	-
			2579+41			LT	-	-	-	-	-	-	-	-	3	-	-
			2581+27			LT	-	-	-	-	-	-	-	-	3	-	-
			2588+50	-	2592+68	RT	-	420	420	-	-	-	-	-	-	-	-
			2589+50	-	2594+02	LT	-	404	404	-	-	-	-	-	3	-	-
							87	41044	41044	50531	3042	4	4	1290	390	0	240
						UNDISTRIBUTED (25%)	17	10256	10256	12469	758	1	1	310	100	10	60
						*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN	**104**	**51300**	**51300**	**63000**	**3800**	**5**	**5**	**1600**	**490**	**10**	**300**

EROSION CONTROL MOBILIZATION

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	628.1905 MOBILIZATION EROSION CONTROL (EACH)	628.1910 EMERGENCY MOBILIZATIONS EROSION CONTROL (EACH)
1650-06-73	0010	1	USH 61	7	3
			STAGE SUBTOTALS	7	3
			UNDISTRIBUTED	1	1
			PROJECT TOTALS	**8**	**4**

FINISHING ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0205 FERTILIZER TYPE A (CWT)	630.0110 SEEDING MIXTURE NO. 10 (LB)	630.0130 SEEDING MIXTURE NO. 30 (LB)	630.0200 SEEDING TEMPORARY (LB)
1650-06-73	0010	-	2066+20	-	2128+40	MAINLINE	24464	23716	20	155	373	870
						CTH K	424	424	0	7	0	15
						ENTERPRISE DR	103	103	0	1	0	3
						COMMERCIAL RD	229	229	0	5	0	10
						INDUSTRIAL DR	38	38	0	1	0	1
			2150+40	-	2234+00	MAINLINE	37859	29594	33	321	502	1395
						CIRCLE RD (SOUTH)	133	133	0	3	0	6
						HYPOINT RD	598	598	1	12	0	24
			2234+00	-	2258+00	MAINLINE	13698	9495	10	115	144	445
						LIBERTY RIDGE RD (SOUTH)	354	354	0	7	0	14
						LIBERTY RIDGE RD (EAST)	306	306	0	6	0	12
						LIBERTY RIDGE RD (WEST)	312	312	0	6	0	12
			2258+00	-	2347+22	MAINLINE	47463	35772	40	445	535	1693
						CIRCLE RD (NORTH)	306	306	0	4	0	8
						CTH E	701	701	1	12	0	24
						GREGORY LN	404	404	0	9	0	18
			2347+22	-	2396+50	MAINLINE	22142	17252	18	171	296	786
						ROGERS RD	414	414	0	7	0	14
			2396+50	-	2496+00	MAINLINE	50427	38577	43	466	597	1827
						PINE GROVE RD	278	278	0	6	0	13
			2496+00	-	2562+50	MAINLINE	30696	26477	26	268	399	1135
						MCGHAN RD	559	559	0	10	0	20
			2562+50	-	2594+25	MAINLINE	14114	8283	12	104	191	494
						BORROW PIT	0	33688	21	455	0	910
						STAGE SUBTOTALS	246022	228013	227	2597	3036	9748
						UNDISTRIBUTED	49204	45603	45	519	607	1950
						PROJECT TOTALS	**295226**	**273616**	**273**	**3116**	**3644**	**11698**

REMOVING SIGNS

PROJECT NUMBER	CATEGORY	SIGN #	LOCATION	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	REMARKS
1650-06-73	0010	R01-01		1	1	SPEED LIMIT 25
		R01-02		1	1	LEFT TURN
				1		ADVISORY SPEED 25 MPH
		R01-03		2	1	SOUTH USH 61
		R01-04		2	1	USH 61 DIRECTION ARROW
		R01-05		2	1	COUNTY K WITH ARROW
		R01-06		1	1	REDUCE SPEED 25 MPH
		R01-07		1	2	LANCASTER POPULATION
		R01-08		1	1	SPEED LIMIT 40
		R01-09		1	1	LEFT CURVE
		R01-10		2	1	JUNCTION COUNTY K
		R01-11		1	1	SPEED LIMIT 40
		R01-12		1	1	DO NOT ENTER
		R01-13		1	1	KEEP RIGHT
		R01-14		2	1	COUNTY K WITH ARROW
		R01-15		1	1	STOP
		R01-16		1	1	STOP
		R01-17		1	1	NIGHT ARROW (DOUBLE)
		R01-18		2	1	NORTH USH 61
		R01-19		1	1	SPEED LIMIT 40
		R01-20		1	1	SPEED LIMIT 40
		R01-21		2	1	COUNTY K WITH ARROW
		R01-22		1	1	STOP
		R01-23		1	1	SPEED LIMIT 50
		R01-24		1	1	NO PASSING ZONE
		R01-25		1	1	SPEED LIMIT 50
		R01-26		1	1	STOP
		R01-27		1	1	NO PASSING ZONE
		R01-28		1	1	SPEED LIMIT 50
		R01-29		1	1	STOP
		R01-30		1	1	SPEED LIMIT 50
		R01-31		1	2	COMMERCIAL RD
		R01-32		1	1	SPEED LIMIT 50
		R01-33		1	1	SPEED LIMIT 50
		R01-34		1	1	STOP
		R01-35		1	1	LEFT CURVE
		R01-36		1	1	SPEED LIMIT 55
		R02-01		1	1	NO PASSING ZONE
		R02-02		1	1	STOP
		R02-03		1	1	NO PASSING ZONE
		R02-04		1	1	SIDE ROAD (90 DEGREE)
		R02-05		1	2	CIRCLE RD
		R02-06		1	1	REDUCED SPEED 45 MPH
		R03-01		1	2	CIRCLE RD
		R03-02		1	1	STOP
		R03-03		1	2	HYPOINT RD
		R03-04		1	1	NO PASSING ZONE
		R03-05		1	2	HYPOINT RD
		R03-06		1	1	STOP
		R03-07		1	1	NO PASSING ZONE
		R03-08		1	1	ADOPT-A-HIGHWAY
		R03-09		1	1	STOP
		R03-10		1	1	NO PASSING ZONE
		R03-11		1	1	BUS STOP
		R03-12		1	2	LIBERTY RIDGE RD
		R03-13		1	1	ADOPT-A-HIGHWAY
		R03-14		1		NO PASSING ZONE
		R03-15		1	2	LIBERTY RIDGE RD
		R04-01		1	2	LIBERTY RIDGE RD
		R04-02		1	1	STOP
		R04-03		3	1	RUSTIC RD JUNCTION
		R04-04		1	2	LIBERTY RIDGE RD
		R04-05		1	1	CROSS ROAD
		R04-06		3	1	RUSTIC RD JUNCTION
		R04-07		1	1	STOP

REMOVING SIGNS

PROJECT NUMBER	CATEGORY	SIGN #	LOCATION	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	REMARKS
1650-06-73	0010	R04-08		1	1	NO PASSING ZONE
		R04-09		1	1	LANE REDUCTION
		R04-10		1	1	LANE REDUCTION
		R04-11		1	1	STOP
		R04-12		1	1	NIGHT ARROW (DOUBLE)
		R04-13		2	1	USH 61 DIRECTION ARROW
		R04-14		1	1	KEEP RIGHT
		R04-15		2	1	COUNTY E WITH ARROW
		R04-16		1	1	RIGHT LANE ENDS
		R04-17		1	2	CIRCLE RD
		R04-18		1	1	ONCOMING TRAFFIC
		R04-19		2	1	COUNTY E JUNCTION
		R04-20		1	2	CIRCLE RD
		R04-21		1	2	STITZER
		R04-22		2	1	HILL 6% GRADE
		R04-23		1	1	LANE REDUCTION
		R04-24		2	1	COUNTY E WITH ARROW
		R04-25		1	1	DOUBLE DOWN ARROWS
		R04-26		1	1	STOP
		R04-27		1	1	STOP
		R04-28		1	1	DO NOT ENTER
		R04-29		2	1	NORTH USH 61
		R05-01		2	1	COUNTY E JUNCTION
		R05-02		1	2	DO NOT PASS WHEN ONCOMING TRAFFIC
		R05-03		1	1	SLOWER TRAFFIC KEEP RIGHT
		R05-04		1	1	CLEARANCE STRIPER DOWN LEFT
		R05-05		1	1	CLEARANCE STRIPER DOWN RIGHT
		R05-06		1	1	ADOPT-A-HIGHWAY
		R05-07		1	1	STOP
		R05-08		1	2	ROGERS RD
		R05-09		1	1	STOP
		R05-10		1	1	NO PASSING ZONE
				1		ROGERS RD
		R05-11		1	1	CLEARANCE STRIPER DOWN RIGHT
		R05-12		2	1	GREGORY BRANCH
		R05-13		1	1	CLEARANCE STRIPER DOWN LEFT
		R05-14		1	1	ADOPT-A-HIGHWAY
		R06-01		1	1	NO PASSING ZONE
		R06-02		1	1	NO PASSING ZONE
		R06-03		1	1	NO PASSING ZONE
		R06-04		1	2	PINE GROVE RD
		R06-05		1	1	STOP
		R07-01		1	2	PINE GROVE RD
		R07-02		1	1	NO PASSING ZONE
		R07-03		1	1	BUS STOP
		R07-04		1	1	NO PASSING ZONE
		R07-05		1	1	NO PASSING ZONE
				1		ADOPT-A-HIGHWAY
		R07-06		1	1	NO PASSING ZONE
		R07-08		1	1	STOP
		R07-09		1	1	ADOPT-A-HIGHWAY
		R08-01		1	1	NO PASSING ZONE
		R09-01		1	1	NO PASSING ZONE
		R09-02		1	2	MCGHAN RD
		R09-03		1	2	MCGHAN RD
		R09-04		1	1	STOP
		R09-05		2	1	HILL 6% GRADE
		R09-06		1	1	SPEED LIMIT 55
		R09-07		2	1	SOUTH USH 61
		R09-08		1	2	LANCASTER 11
		R09-09		1	1	REDUCE SPEED 35 MPH
		R09-10		1	1	SPEED LIMIT 35
		R09-11		1	2	FENNIMORE POPULATION 2497
			PROJECT TOTALS	**149**	**145**	

3

PERMANENT SIGNING

PROJECT NUMBER	SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE W" X H"	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	POSTS WOOD 4X6-INCH 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FEET EACH
1650-06-73	01-01	LT	R2-1	SPEED LIMIT 25	24" X 30"	5.00		1			
	01-02	LT	W1-1L		36" X 36"		9.00			1	
		LT	W13-1	25 M.P.H.	24" X 24"		4.00				
	01-03	LT	J4-1		24" X 36"	6.00			1		
			M3-3	SOUTH	24" X 12"						
			M1-4	USH 61	24" X 24"						
	01-04	RT	J12-1		24" X 45"	7.50			1		
			M1-4	USH 61	24" X 24"						
			M6-4		21" X 21"						
	01-05	RT	R1-1	STOP	30" X 30"	5.18		1			
	01-06	RT	J12-1		24" X 45"	7.50			1		
			M1-5A	COUNTY K	24" X 24"						
			M6-1		21" X 21"						
	01-07	LT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-08	RT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-09	RT	J1-1		24" X 39"	6.50			1		
			M2-1	JCT	21" X 15"						
			M1-5A	COUNTY K	24" X 24"						
	01-10	LT	W3-5	25 MPH	36" X 36"		9.00		1		
	01-11	LT	J12-1		24" X 45"	7.50			1		
			M1-5A	COUNTY K	24" X 24"						
			M6-1		21" X 21"						
	01-12	RT	W1-7	NIGHT ARROW (DOUBLE)	48" X 24"		8.00		1		
	01-13	RT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-14	RT	J4-1		24" X 36"	6.00			1		
			M3-1	NORTH	24" X 12"						
			M1-4	USH 61	24" X 24"						
	01-15	LT	J1-1		24" X 39"	6.50			1		
			M2-1	JCT	21" X 15"						
			M1-5A	COUNTY K	24" X 24"						
	01-16	LT	R1-1	STOP	30" X 30"	5.18		1			
	01-17	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	01-18	LT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-19	LT	R1-1	STOP	30" X 30"	5.18		1			
	01-20	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	01-21	RT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-22	LT	R1-1	STOP	30" X 30"	5.18		1			
	01-23	LT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-24	LT	I2-3	LANCASTER POPULATION 3868	66" X 24"			2			
	01-25	RT	R4-51	PASSING LANE AHEAD 1 MILE	36" X 48"	12.00			1		
	01-26	RT	R1-1	STOP	30" X 30"	5.18		1			
	01-27	RT	R2-1	SPEED LIMIT 45	24" X 30"	5.00		1			
	01-28	RT	R2-1	SPEED LIMIT 55	24" X 30"	5.00		1			
	02-01	RT	R4-51	PASSING LANE AHEAD 1/2 MILE	36" X 48"				1		
	02-02	RT	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"	5.00		1			
	02-03	LT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	02-04	LT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	02-05	RT	R1-1	STOP	30" X 30"	5.18		1			
	02-06	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	02-07	RT	W2-2	SIDE ROAD	30" X 30"		6.25		1		
	02-08	RT	D1-1	CIRCLE RD	66" X 15"	6.88		2			
	02-09	LT	W3-5	SPEED LIMIT 45	36" X 36"		9.00		1		
	03-01	LT	D1-1	CIRCLE RD	66" X 15"	6.88		2			
	03-02	LT	R1-1	STOP	30" X 30"	5.18		1			
	03-03	LT	D1-1	HYPOINT RD	78" X 15"	8.13		2			
	03-04	LT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	03-05	RT	D1-1	HYPOINT RD	78" X 15"	8.13		2			
	03-06	LT	R1-1	STOP	30" X 30"	5.18		1			
	03-07	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	03-08	RT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	03-09	LT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	

CONTINUED ON NEXT PAGE

3

PERMANENT SIGNING

PROJECT NUMBER	SIGN NO.	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE W" X H"	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	POSTS WOOD 4X6-INCH 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FEET EACH
1650-06-73	03-10	LT	R3-72	ONCOMING TRAFFIC USES CENTER LANE	30" X 36"	7.50			1		
	03-11	LT	I55-56	GRANT CO. 4-H JUNIOR LEADERS	30" X 36"	7.50			1		
	03-12	RT	R1-1	STOP	30" X 30"	5.18		1			
	03-13	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	03-14	RT	W9-1R	RIGHT LANE ENDS	36" X 36"		9.00		1		
	03-15	LT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	03-16	RT	D1-1	LIBERTY RIDGE RD	108" X 15"	11.25		2			
	03-17	RT	I55-56	STITZER GO-GETTERS 4-H CLUB	30" X 36"	7.50			1		
	03-18	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00	1			
	03-19	RT	D1-1	LIBERTY RIDGE RD	90" X 24"	15.00		2			
	04-01	LT	D1-1	LIBERTY RIDGE RD	108" X 15"	11.25		2			
	04-02	RT	R1-1	STOP	30" X 30"	5.18		1			
	04-03	LT	MR2-1	JCT	21" X 15"	2.20				1	
			MR1-99	RUSTIC ROAD	24" X 24"	4.00					
			MR6-1		21" X 21"	3.06					
	04-04	LT	D1-1	LIBERTY RIDGE RD	90" X 24"	15.00		2			
	04-05	LT	W2-1	CROSSROAD	30" X 30"		6.25		1		
	04-06	LT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	04-07	LT	W9-1R	RIGHT LANE ENDS	36" X 36"		9.00		1		
	04-08	RT	MR2-1	JCT	21" X 15"	2.20				1	
			MR1-99	RUSTIC ROAD	24" X 24"	4.00					
			MR6-1		21" X 21"	3.06					
	04-09	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	04-10	LT	R1-1	STOP	30" X 30"	5.18		1			
	04-11	RT	R3-72	ONCOMING TRAFFIC USES CENTER LANE	30" X 36"	7.50			1		
	04-12	RT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	04-13	RT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00	–			
	04-14	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	04-15	RT	R1-1	STOP	30" X 30"	5.18		1			
	04-16	LT	J4-1		24" X 36"	6.00			1		
			M3-3	SOUTH	24" X 12"						
			M1-4	USH 61	24" X 24"						
	04-17	LT	W1-7		48" X 24"		8.00		1		
	04-18	LT	J12-1		24" X 45"	7.50			1		
			M1-5A	COUNTY E	24" X 24"						
			M6-1		21" X 21"						
	04-19	LT	D1-1	CIRCLE RD	66" X 15"	6.88		2			
	04-20	RT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	04-21	RT	J1-1		24" X 39"	6.20			1		
			M2-1	JCT	21" X 15"						
			M1-5A	COUNTY E	24" X 24"						
	04-22	RT	D1-1	CIRCLE RD	66" X 15"	6.88		2			
	04-23	RT	D1-1	STITZER	60" X 15"	6.25		1			
	04-24	RT	W7-1	HILL SYMBOL	36" X 36"		9.00		1		
			W7-3	6% GRADE	24" X 18"		3.00				
	04-25	RT	J12-1		24" X 45"	7.50			1		
			M1-5A	COUNTY E	24" X 24"						
			M6-1		21" X 21"						
	04-26	LT	R1-1	STOP	30" X 30"	5.18		1			
	04-27	LT	J12-1		24" X 45"	7.50			1		
			M1-4	USH 61	24" X 24"						
			M6-4		21" X 21"						
	04-28	RT	J4-1		24" X 36"	6.00			1		
			M3-1	NORTH	24" X 12"						
			M1-4	USH 61	24" X 24"						
	05-01	LT	J1-1		24" X 39"	6.50			1		
			M2-1	JCT	21" X 15"						
			M1-5A	COUNTY E	24" X 24"						
	05-02	RT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	

PERMANENT SIGNING

PROJECT NUMBER	SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE W" X H"	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	POSTS WOOD 4X6-INCH 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FEET EACH
1650-06-73	05-03	2347+22	LT	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"	5.00		1			
	05-04	2350+62	LT	W5-52L	BRIDGE CLEARANCE MARKER LEFT	12" X 36"		3.00		1		
	05-05	2350+97	RT	W5-52R	BRIDGE CLEARANCE MARKER RIGHT	12" X 36"		3.00		1		
	05-06	2352+04	LT	I55-56	STITZER GO-GETTERS 4-H CLUB	30" X 36"	7.50			1		
	05-07	186+69'RG'	RT	R1-1	STOP	30" X 30"	5.18		1			
	05-08	2360+05	LT	D1-1	ROGERS RD	72" X 15"	7.50		2			
	05-09	2343+70	RT	R4-51	PASSING LANE AHEAD 1 MILE	36" X 48"	12.00			1		
	05-10	2345+05	RT	D1-1	ROGERS RD	72" X 15"	7.50		2			
	05-11	175+46'GL'	LT	R1-1	STOP	30" X 30"	5.18		1			
	05-12	2350+60	RT	W5-52R	BRIDGE CLEARANCE MARKER RIGHT	12" X 36"		3.00		1		
	05-13	2350+95	LT	W5-52L	BRIDGE CLEARANCE MARKER LEFT	12" X 36"		3.00		1		
	05-14	2352+22	RT	I55-56	COMMUNITY CORRECTIONS	30" X 36"	7.50			1		
	05-15	2352+22	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00	1			
	06-01	2373+62	LT	R4-51	PASSING LANE AHEAD 1/2 MILE	36" X 48"	12.00			1		
	06-02	2377+95	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	06-03	2391+50	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	06-04	2370+10	RT	R4-51	PASSING LANE AHEAD 1/2 MILE	36" X 48"	12.00			1		
	06-05	2396+50	RT	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"	5.00		1			
	06-06	2395+75	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	06-07	2400+02	LT	R4-51	PASSING LANE AHEAD 1 MILE	36" X 48"	12.00			1		
	06-08	2415+11	LT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	06-09	2420+05	RT	D1-1	PINE GROVE RD	96" X 15"	10.00		2			
	07-01	2428+68	LT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	07-02	2435+05	LT		PINE GROVE RD	96" X 15"	10.00		2			
	07-03	2452+28	LT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	07-04	2457+42	LT	S3-1	SCHOOL BUS STOP AHEAD	36" X 36"		9.00		1		
	07-05		LT	R1-1	STOP	30" X 30"	5.18		1			
	07-06	2428+68	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	07-07	2469+78	LT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	07-08	2480+72	LT	I55-56	COMMUNITY CORRECTIONS	30" X 36"	7.50			1		
	07-09	2484+25	LT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	07-10	2469+78	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	07-11	2479+50	RT	W9-1R	RIGHT LANE ENDS	36" X 36"		9.00		1		
	07-12	205+68'WL'	LT	R1-1	STOP	30" X 30"	5.18		1			
	07-13	2481+74	RT	I55-56	SOUTHWEST TECH HUMAN SERVICES CLUB	30" X 36"	7.50			1		
	07-14	2484+25	RT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		

PERMANENT SIGNING

PROJECT NUMBER	SIGN NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE W" X H"	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FT EACH	POSTS WOOD 4X6-INCH 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FEET EACH
1650-06-73	08-01	2491+05	LT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	08-02	2516+25		W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	08-03	2501+56	RT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	08-04	2504+50	RT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	08-05	2516+25	RT	W4-2R	LANE TRANSITION SYMBOL	36" X 36"		9.00		1		
	08-06	2521+00	LT	W9-1R	RIGHT LANE ENDS	30" X 30"		9.00		1		
	08-07	2530+90	RT	R4-53	DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE	54" X 54"	20.25				2	
	09-01	2554+43	LT	W14-3	NO PASSING ZONE	48" X 36"		6.00		1		
	09-02	2562+50	LT	R4-3	SLOWER TRAFFIC KEEP RIGHT	24" X 30"	5.00		1			
	09-03	2571+65	LT	D1-1	MCGHAN RD	78" X 15"	8.13		2			
	09-04	2554+43	RT	R4-1	DO NOT PASS	24" X 30"	5.00		1			
	09-05	2556+65	RT	D1-1	MCGHAN RD	78" X 15"	8.13		2			
	09-06	2563+66	RT	W12-1D	DOUBLE DOWN ARROW	24" X 24"		4.00				1
	09-07		RT	R5-1	DO NOT ENTER	30" X 30"	6.26		1			
					DO NOT ENTER	30" X 30"	6.26		1			
	09-08	215+38'MG'	LT	R1-1	STOP	30" X 30"	5.18		1			
	09-09	2593+39	LT	D2-1	LANCASTER 11	78" X 15"	8.13		1		1	
	09-10		LT	R4-51	PASSING LANE AHEAD 1/2 MILE	36" X 48"	12.00			1		
	09-11	2589+03	LT	W7-1	HILL SYMBOL	36" X 36"		9.00		1		
				W7-3	6% GRADE	24" X 18"		3.00				
	09-12	2591+70	LT	R2-1	SPEED LIMIT 55	24" X 30"	5.00		1			
	09-13	2593+39	LT	J4-1		24" X 36"	6.00			1		
				M3-3	SOUTH	24" X 12"						
				M1-4	USH 61	24" X 24"						
	09-14	2586+21	RT	W3-5	SPEED LIMIT 35	36" X 36"		9.00		1		
	09-15	2591+70	RT	R2-1	SPEED LIMIT 35	24" X 30"	5.00		1			
	09-16	2594+35	RT	I2-3	FENNIMORE POPULATION 2497	72" X 24"	12.00		2			
					PROJECT TOTAL		**818.11**	**321.50**	**81**	**69**	**22**	**1**

PAVEMENT MARKING

PROJECT NUMBER	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH SKIPS WHITE LF	646.0106 EPOXY 4-INCH SOLID WHITE LF	646.0106 EPOXY 4-INCH SKIPS YELLOW LF	646.0406 PAVEMENT MARKING SAME DAY EPOXY 4-INCH YELLOW LF	649.0403 TEMPORARY PAVEMENT MARKING EPOXY WHITE LF	646.0126 EPOXY 8-INCH WHITE LF	647.0566 STOPLINE EPOXY 18-INCH WHITE LF	REMARKS
1650-06-73	2066+20 - 2072+89	LT	-	672	-	-	-	-	-	
	2066+20 - 2107+13	RT	-	4,080	-	-	-	-	-	
	2066+20 - 2081+95	CL	-	-	-	-	3,150	-	-	LOWER LAYER
	2066+20 - 2081+95		-	-	-	3,150	-	-	-	UPPER LAYER
	25+28'K'	LT	-	-	-	-	-	-	33	
	25+67'K' - 26+87'K'	LT	-	121	-	-	-	-	-	
	25+78'K' - 26+87'K'	RT	-	110	-	-	-	-	-	
	2074+25 - 2077+75	LT	-	-	-	-	-	353	-	
	2074+25 - 2082+62	LT	-	850	-	-	-	-	-	
	2081+95 - 2092+19	CL	-	-	-	-	1,024	-	-	LOWER LAYER
	2081+95 - 2092+19	CL	-	-	256	1,024	-	-	-	UPPER LAYER
	35+29'EN'	LT	-	-	-	-	-	-	25	
	2083+97 - 2085+98	LT	-	-	-	-	-	201	-	
	2083+97 - 2103+12	LT	-	-	-	-	-	1918	-	
	2092+19 - 2104+29	CL	-	-	303	-	-	-	-	
	45+28'CM'	LT	-	-	-	-	-	-	30	
	2104+29 - 2106+58	CL	-	-	-		229	-	-	LOWER LAYER
	2104+29 - 2106+58	CL	-	-	58	229	-	-	-	UPPER LAYER
	2104+49 - 2105+39	LT	23	-	-	-	-	-	-	
	2105+39 - 2110+86	LT	-	550	-	-	-	-	-	
	2105+12 - 2107+13	RT	-	-	-	-	-	200	-	
	2106+58 - 2128+40	CL	-	-	546	-	-	-	-	
	57+44'BM'	RT	-	-	-	-	-	-	40	
	2108+67 - 2128+40	RT	-	1,980	-	-	-	-	-	
	65+28'IN'	LT	-	-	-	-	-	-	33	
	2112+27 - 2114+28	LT	-	-	-	-	-	200	-	
	2112+27 - 2128+40	LT	-	1,608	-	-	-	-	-	
	2150+40 - 2165+89	CL	-	-	-	-	1549	-	-	LOWER LAYER
	2150+40 - 2165+89	CL	-	-	-	1,549	-	-	-	UPPER LAYER
	2150+40 - 2181+18	LT	-	3,075	-	-	-	-	-	
	2150+40 - 2192+81	RT	-	4,247	-	-	-	-	-	
	2152+82 - 2159+30	RT	162	-	-	-	-	-	-	
	2159+38 - 2224+46	RT	1,628	-	-	-	-	-	-	
	2165+89 - 2178+96	CL	-	-	-	-	1,307	-	-	LOWER LAYER
	2165+89 - 2178+96	CL	-	-	327	1,307	-	-	-	UPPER LAYER
	2178+96 - 2209+22	CL	-	-	-	-	6,052	-	-	LOWER LAYER
	2178+96 - 2209+22	CL	-	-	-	6,052	-	-	-	UPPER LAYER
	2182+47 - 2183+39	LT	23	-	-	-	-	-	-	
	2183+39 - 2238+74	LT	-	5,533	-	-	-	-	-	
	2192+81 - 2193+72	RT	23	-	-	-	-	-	-	
	2194+99 - 2250+75	RT	-	5,582	-	-	-	-	-	
	2209+22 - 2224+50	CL	-	-	-	-	1,528	-	-	LOWER LAYER
	2209+22 - 2224+50	CL	-	-	382	1,528	-	-	-	UPPER LAYER
	2224+50 - 2234+00	CL	-	-	-	-	1,900	-	-	LOWER LAYER
	2224+50 - 2234+00	CL	-	-	-	1,900	-	-	-	UPPER LAYER
	2234+00 - 2237+52	CL	-	-	-	-	352	-	-	LOWER LAYER
	2234+00 - 2237+52	CL	-	-	88	352	-	-	-	UPPER LAYER
	2237+52 - 2239+96	CL	-	-	61	-	-	-	-	
	2239+96 - 2249+95	CL	-	-	-	-	999	-	-	LOWER LAYER
	2239+96 - 2249+95	CL	-	-	250	999	-	-	-	UPPER LAYER
	2240+12 - 2241+02	LT	23	-	-	-	-	-	-	
	2241+02 - 2251+79	LT	-	1,077	-	-	-	-	-	
	2249+95 - 2269+51	CL	-	-	-	-	3,912	-	-	LOWER LAYER
	2249+95 - 2269+51	CL	-	-	-	3,912	-	-	-	UPPER LAYER
	2250+75 - 2251+65	RT	23	-	-	-	-	-	-	
	2253+02 - 2297+91	RT	-	4,500	-	-	-	-	-	

MOVING SIGNS

PROJECT NUMBER	CATEGORY	SIGN #	SIGN CODE	LOCATION	638.2102 MOVING SIGNS TYPE II (EACH)
1650-06-73	1000	M07-07			1
				PROJECT TOTALS	**1**

PAVEMENT MARKING

PROJECT NUMBER	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH SKIPS WHITE LF	646.0106 EPOXY 4-INCH SOLID WHITE LF	646.0106 EPOXY 4-INCH SKIPS YELLOW LF	646.0406 PAVEMENT MARKING SAME DAY EPOXY 4-INCH YELLOW LF	649.0403 TEMPORARY PAVEMENT MARKING EPOXY WHITE LF	646.0126 EPOXY 8-INCH WHITE LF	647.0566 STOPLINE EPOXY 18-INCH WHITE LF	REMARKS
1650-06-73	2253+18 - 2253+78	LT	15	-	-	-	-	-	-	
	2253+78 - 2287+44	LT	-	3,353	-	-	-	-	-	
	2267+37 - 2340+22	LT	1,821	-	-	-	-	-	-	
	2269+51 - 2285+03	CL	-	-	-	1,552	1,552	-	-	LOWER LAYER
	2269+51 - 2285+03	CL	-	-	388	-	-	-	-	UPPER LAYER
	2285+03 - 2313+45	CL	-	-	-	-	5,684	-	-	LOWER LAYER
	2285+03 - 2313+45	CL	-	-	-	5,684	-	-	-	UPPER LAYER
	2289+69 - 2295+70	LT	-	602	-	-	-	-	-	
	2294+91 - 2297+91	RT	-	-	-	-	-	300	-	
	165+28'E'	LT	-	-	-	-	-	-	32	
	2297+96 - 2351+98	LT	-	5,405	-	-	-	-	-	
	2299+20 - 2344+98	RT	-	4,578	-	-	-	-	-	
	2313+45 - 2352+22	CL	-	-	-	-	3,877	-	-	LOWER LAYER
	2313+45 - 2352+22	CL	-	-	970	3,877	-	-	-	UPPER LAYER
	2340+21 - 2346+78	LT	164	-	-	-	-	-	-	
	2344+97 - 2345+88	RT	23	-	-	-	-	-	-	
	2347+45 - 2426+07	RT	-	7,852	-	-	-	-	-	
	2352+22 - 2377+95	CL	-	-	644	-	-	-	-	
	2353+30 - 2354+21	LT	23	-	-	-	-	-	-	
	2354+21 - 2594+19	LT	-	23,993	-	-	-	-	-	
	2377+95 - 2383+96	CL	-	-	-	-	601	-	-	LOWER LAYER
	2377+95 - 2383+96	CL	-	-	151	601	-	-	-	UPPER LAYER
	2383+96 - 2388+53	CL	-	-	115	-	-	-	-	
	2388+53 - 2391+50	CL	-	-	-	-	297	-	-	LOWER LAYER
	2388+53 - 2391+50	CL	-	-	75	297	-	-	-	UPPER LAYER
	2391+50 - 2395+75	CL	-	-	-	-	850	-	-	LOWER LAYER
	2391+50 - 2395+75	CL	-	-	-	850	-	-	-	UPPER LAYER
	2395+75 - 2415+12	CL	-	-	-	-	1,937	-	-	LOWER LAYER
	2395+75 - 2415+12	CL	-	-	485	1,937	-	-	-	UPPER LAYER
	2396+93 - 2403+50	RT	164	-	-	-	-	-	-	
	2403+50 - 2486+63	RT	2,080	-	-	-	-	-	-	
	2415+12 - 2428+25	CL	-	-	-	-	2,626	-	-	LOWER LAYER
	2415+12 - 2428+25	CL	-	-	-	2,626	-	-	-	UPPER LAYER
	2426+06 - 2426+97	RT	23	-	-	-	-	-	-	
	2428+25 - 2452+28	CL	-	-	-	-	2,403	-	-	LOWER LAYER
	2428+25 - 2452+28	CL	-	-	601	2,403	-	-	-	UPPER LAYER
	2428+47 - 2479+06	RT	-	5,067	-	-	-	-	-	
	2452+28 - 2469+78	CL	-	-	-	-	3,500	-	-	LOWER LAYER
	2452+28 - 2469+78	CL	-	-	-	3,500	-	-	-	UPPER LAYER
	2469+78 - 2491+05	CL	-	-	-	-	2,127	-	-	LOWER LAYER
	2469+78 - 2491+05	CL	-	-	532	2,127	-	-	-	UPPER LAYER
	2479+05 - 2480+00	RT	24	-	-	-	-	-	-	
	2481+18 - 2562+00	RT	-	8,098	-	-	-	-	-	
	2491+05 - 2496+00	CL	-	-	-	-	990	-	-	LOWER LAYER
	2491+05 - 2496+00	CL	-	-	-	990	-	-	-	UPPER LAYER
	2496+00 - 2501+56	CL	-	-	-	-	556	-	-	LOWER LAYER
	2496+00 - 2501+56	CL	-	-	139	556	-	-	-	UPPER LAYER
	2501+56 - 2504+50	CL	-	-	74	-	-	-	-	
	2504+50 - 2554+53	CL	-	-	-	-	5,003	-	-	LOWER LAYER
	2504+50 - 2554+53	CL	-	-	1,251	5,003	-	-	-	UPPER LAYER
	2513+87 - 2555+50	LT	1,040	-	-	-	-	-	-	
	2554+53 - 2594+24	CL	-	-	-	-	7,942	-	-	LOWER LAYER
	2554+53 - 2594+24	CL	-	-	-	7,942	-	-	-	UPPER LAYER
	2555+50 - 2562+06	LT	164	-	-	-	-	-	-	
	2562+00 - 2562+91	RT	23	-	-	-	-	-	-	
	2563+40 - 2563+95	RT	-	-	-	-	-	55	-	
	215+11'MG' - 215+92'MG'	RT	-	-	-	-	-	136	-	
	215+21'MG'	LT	-	-	-	-	-	-	25	
	215+22'MG' - 217+18'MG'	CL	-	-	-	-	392	-	-	LOWER LAYER
	215+22'MG' - 217+18'MG'	CL	-	-	-	392	-	-	-	UPPER LAYER
	2564+62 - 2594+19	RT	-	2,948	-	-	-	-	-	
	STAGE SUBTOTALS		7469	95881	7696	62339	62339	3363	218	
	PROJECT TOTALS			**111046**		**62339**	**62339**	**3363**	**218**	

3

TRAFFIC CONTROL

PROJECT NUMBER	CATEGORY	LOCATION	STAGE	STATION	-	STATION	DAYS	DRUMS (EACH)	643.0300 DRUMS (DAYS)	BARRICADES TYPE III (EACH)	643.0420 BARRICADES TYPE III (DAYS)	WARNING LIGHTS TYPE A (EACH)	643.0705 WARNING LIGHTS TYPE A (DAYS)	WARNING LIGHTS TYPE C (EACH)	643.0715 WARNING LIGHTS TYPE C (DAYS)	SIGNS PCMS (EACH)	643.1050 SIGNS PCMS (DAYS)	SIGNS (EACH)	643.0900 SIGNS (DAYS)	COMMENTS
1650-06-73	1000	USH 61		--		--	7	10	70	0	0	0	0	10	70	2	14	0	0	
		USH 61		2066+20	-	2127+25	100	0	0	14	1400	2	200	0	0	0	0	14	1400	
		USH 61		2150+00	-	2236+00	100	86	8600	8	800	0	0	0	0	0	0	4	400	
		USH 61		2236+00	-	2256+00	100	0	0	2	200	0	0	0	0	0	0	3	300	
		USH 61		2256+00	-	2350+50	100	93	9322	9	900	0	0	0	0	0	0	3	300	
		USH 61		2351+00	-	2498+00	100	104	10350	10	1000	0	0	0	0	0	0	3	300	
		USH 61		2502+50	-	2564+50	100	62	6200	6	600	0	0	0	0	0	0	1	100	
		USH 61		2564+50	-	2594+24	100	0	0	2	200	2	200	0	0	0	0	5	500	
		UNDISTRIBUTED					100	51	5147	5	510	2	240	1	100	0	0	10	1000	
		PROJECT TOTALS							**39689**		**5610**		**640**		**170**		**14**		**4300**	

CONSTRUCTION STAKING

PROJECT NUMBER	CATEGORY	STAGE	STATION	-	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE (LF)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
1650-06-73	0010	-	2066+20	-	2128+40	USH 61	6220	6220	6220	6220
			2150+40	-	2234+00	USH 61	8360	8360	8360	8360
			2234+00	-	2258+00	USH 61	2400	2400	2400	2400
			2258+00	-	2350+63.41	USH 61	9264	9264	9264	9264
			2350+94.57	-	2396+50	USH 61	4555	4555	4555	4555
			2396+50	-	2496+00	USH 61	9950	9950	9950	9950
			2496+00	-	2504+50	USH 61	850	850	850	850
			2504+50	-	2562+50	USH 61	5800	5800	5800	5800
			2562+50	-	2594+24	USH 61	3174	3174	3174	3174
			25+28'K'	-	26+87'K'	CTH K	107	107	107	107
			45+35'CM'	-	46+89'CM'	COMMERCIAL RD	154	154	154	154
			56+92 'BM'	-	57+37'BM'	BEMIS RD	45	45	45	45
			65+36'ID'	-	66+04'ID'	INDUSTRIAL DR	68	68	68	68
			95+62'CS'	-	96+91'CS'	CIRCLE RD (SOUTH)	129	129	129	129
			105+30'HY'	-	108+00'HY'	HYPOINT RD	270	270	-	270
			115+34'LRS'	-	117+00'LRS'	LIBERTY RIDGE RD (SOUTH)	166	166	166	166
			125+62'LRE'	-	126+75'LRE'	LIBERTY RIDGE RD (EAST)	113	113	113	113
			136+68'LRW'	-	138+37'LRW'	LIBERTY RIDGE RD (WEST)	169	169	169	169
			155+65'CN'	-	157+00'CN'	CIRCLE RD (NORTH)	135	135	135	135
			165+29'E'	-	167+65'E'	CTH E	236	236	-	236
			175+02'GL'	-	177+36'GL'	GREGORY LN	234	234	-	234
			185+62'RG'	-	187+00'RG'	ROGERS RD	138	138	138	138
			195+25'PG'	-	197+45'PG'	PINE GROVE RD	220	220	-	220
			205+30'WL'	-	206+15'WL'	WELLS LN	85	85	-	85
			215+18'MG'	-	217+25'MG'	MCGHAN RD	207	207	-	207
						STAGE SUBTOTALS	53,049	53,049	51,797	53,049
						PROJECT TOTALS	**53,049**	**53,049**	**51,797**	**53,049**

CONSTRUCTION STAKING

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (LS)
1650-06-73	0010	-	C-22-1759	1
			C-22-1760	1
			C-22-1762	1
			C-22-1763	1
			C-22-1764	1
			C-22-1765	1
			C-22-1766	1
			C-22-1767	1
			C-22-1768	1
			C-22-1769	1
			C-22-1770	1
			C-22-1771	1
			C-22-1772	1
			C-22-1773	1
			C-22-1774	1
			STAGE SUBTOTALS	15
			PROJECT TOTALS	**15**

SAWING ITEMS

PROJECT NUMBER	CATEGORY	STATION - STATION	LOCATION	690.0150 SAWING ASPHALT (LF)	690.0250 SAWING CONCRETE (LF)	REMARKS
1650-06-73	0010	2066+20	CL	29	0	BUTT JOINT
		2066+95	LT	33	0	DRIVEWAY
		2069+45	RT	34	0	DRIVEWAY
		2072+00	RT	61	0	DRIVEWAY
		26+87.50'K'	CL	30	0	BUTT JOINT
		26+83'K' - 26+58'K'	LT	20	5	DRIVEWAY
		2076+60	RT	34	0	DRIVEWAY
		36+37'EN'	CL	30	6	BUTT JOINT
		2086+08	LT	27	0	DRIVEWAY
		2089+86	RT	48	0	DRIVEWAY
		2091+13	LT	22	0	DRIVEWAY
		2094+81	RT	18	0	DRIVEWAY
		2096+44	RT	31	0	DRIVEWAY
		2099+48	RT	34	0	DRIVEWAY
		2103+06	RT	39	0	DRIVEWAY
		2103+87	RT	36	0	DRIVEWAY
		46+88.85'CM'	CL	18	0	BUTT JOINT
		2105+72	RT	51	0	DRIVEWAY
		56+91.86'BM'	CL	51	6	BUTT JOINT
		2111+53	RT	49	0	DRIVEWAY
		66+04.12'IN'	CL	34	6	BUTT JOINT
		2117+77	RT	39	0	DRIVEWAY
		2121+45	RT	78	0	DRIVEWAY
		2128+40	CL	36	0	BUTT JOINT
		2150+40	CL	36	0	BUTT JOINT
		2152+00 - 2234+00	RT	8167	0	PASSING LANE
		95+62.09'CS'	CL	22	0	BUTT JOINT
		108+00'HY'	CL	22	0	
		2194+30	LT	46	0	DRIVEWAY
		115+34.43'LRS'	CL	18	0	BUTT JOINT
		136+68'LRW'	CL	18	0	BUTT JOINT
		126+75'LRW'	CL	20	0	BUTT JOINT
		2258+00 - 2284+95	LT	2690	0	PASSING LANE
		2274+61	RT	30	0	DRIVEWAY
		155+65'CN'	CL	22	0	BUTT JOINT
		167+62.79'E'	CL	30	0	
		2342+30 - 2347+22	LT	493	0	PASSING LANE
		185+61.87'RG'	CL	20	0	BUTT JOINT
		2396+50 - 2496+00	RT	9958	0	PASSING LANE
		2504+50 - 2562+50	LT	5791	0	PASSING LANE
		2528+75	LT	0	18	
		2553+87	RT	18	0	DRIVEWAY
		217+25.48'MG'	CL	24	0	
		2589+36	LT	26	0	DRIVEWAY
		2592+88	RT	0	24	DRIVEWAY
		2594+15	LT	14	0	DRIVEWAY
		PROJECT TOTALS		**28347**	**65**	

CONSTRUCTION STAKING

PROJECT NUMBER	CATEGORY	650.9910 SUPPLEMENTAL CONTROL (1650-06-73) (LS)
1650-06-73	0010	1
	PROJECT TOTALS	**1**

3

EXCAVATION FOR STRUCTURES CULVERTS

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	206.2000 (LS)
1650-06-73	0010	-	C-22-1759	1
			C-22-1760	1
			C-22-1762	1
			C-22-1763	1
			C-22-1764	1
			C-22-1765	1
			C-22-1766	1
			C-22-1767	1
			C-22-1768	1
			C-22-1769	1
			C-22-1770	1
			C-22-1771	1
			C-22-1772	1
			C-22-1773	1
			C-22-1774	1
			STAGE SUBTOTALS	15
			PROJECT TOTALS	**15**

REMOVING OLD STRUCTURE

PROJECT NUMBER	CATEGORY	STAGE	STATION	203.0200 (LS)	REMARKS
1650-06-73	0010	-	2081+65.57	1	
			2084+32.45	1	
			2231+14.61	1	
			2305+83.40	1	
			2332+95.43	1	
			2412+77.73	1	
			2432+77.58	1	
			2447+32.38	1	
			2469+76.22	1	
			2497+16.23	1	
			2530+46.06	1	
			2481+16.32	1	
			2531+78.54	1	EXISTING 10' X 4' BOX CULVERT AT CE
			2539+55.14	1	
			2552+61.29	1	
			2567+68.96	1	
			STAGE SUBTOTALS	16	
			PROJECT TOTALS	**16**	

3

STRUCTURE EXTENSIONS

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	210.2500 BACKFILL STRUCTURE TYPE B (CY)	311.0115 BREAKER RUN (CY)	502.4205 ADHESIVE ANCHORS NO. 5 BAR (EACH)	504.0100 CONCRETE MASONRY CULVERTS (CY)	505.0400 BAR STEEL REINFORCEMENT HS STRUCTURES (LB)	505.0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES (LB)	516.0500 RUBBERIZED MEMBRANE WATERPROOFING (SY)	606.0300 RIPRAP HEAVY (CY)	645.0105 GEOTEXTILE FABRIC TYPE C (SY)	645.0120 GEOTEXTILE FABRIC TYPE HR (SY)
1650-06-73	0010	-	C-22-1759	298	16	34	19	1140	1120	20	-	56	-
			C-22-1760	286	17	30	18	1300	850	17	-	59	-
			C-22-1762	366	18	36	23	1510	1150	22	-	68	-
			C-22-1763	524	25	34	32	2490	1130	20	-	91	-
			C-22-1764	534	27	34	31	3370	860	18	30	96	63
			C-22-1765	484	23	34	28	2220	1120	20	-	81	-
			C-22-1766	464	22	34	28	2070	1120	20	-	78	-
			C-22-1767	494	23	34	29	2260	1120	20	-	83	-
			C-22-1768	474	23	34	28	2150	1120	20	-	80	-
			C-22-1769	570	43	56	65	7660	1740	27	36	142	85
			C-22-1770	490	23	34	28	2230	1120	20	-	82	-
			C-22-1771	532	25	34	31	2480	1120	20	-	88	-
			C-22-1772	526	24	34	30	2430	1120	20	-	87	-
			C-22-1773	212	17	28	19	1420	490	14	21	59	55
			C-22-1774	414	21	34	30	2020	1150	20	-	80	-
			STAGE SUBTOTALS	6,668	347	524	439	36,750	16,330	298	87	1,230	203
			PROJECT TOTALS	**6,668**	**347**	**524**	**439**	**36,750**	**16,330**	**298**	**87**	**1,230**	**203**

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

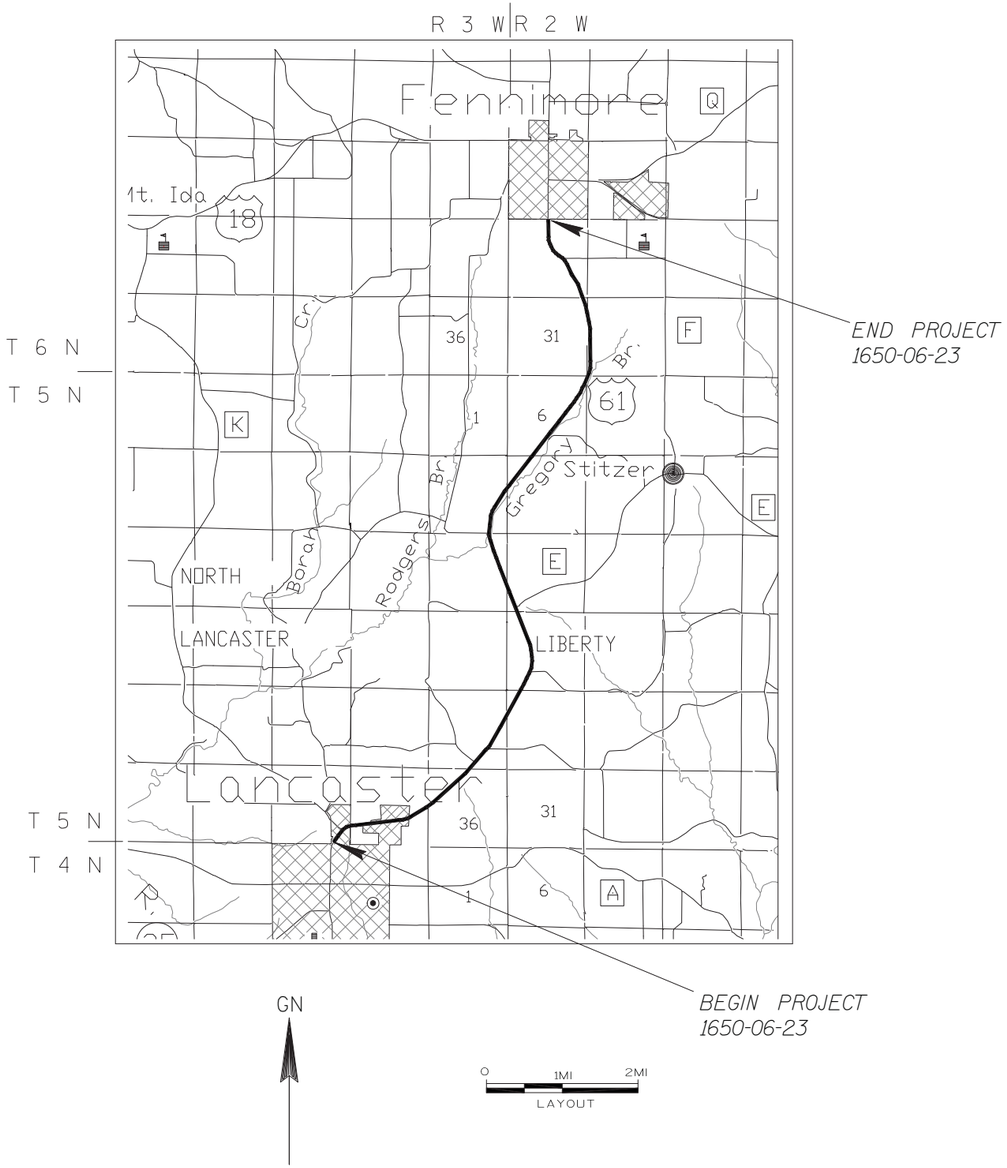
PROJECT NO. 1650-06-23

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

USH 61

GRANT COUNTY





CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	SOUTHEAST	SE
CERTIFIED SURVEY MAP	CSM	SOUTHWEST	SW
CORNER	COR.	STATION	STA.
DOCUMENT	DOC.	TEMPORARY LIMITED EASEMENT	TLE
EASEMENT	EASE.	VOLUME	V.
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
LIFE ESTATE	LE		
MONUMENT	MON.		
NORTHEAST	NE		
NORTHWEST	NW		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN
POINT OF CURVATURE	PC
POINT OF INTERSECTION	PI
POINT OF TANGENCY	PT

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⅝" (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W POINT, TO BE MONUMENTED		PROPERTY LINE	
R/W POINT, NON-MONUMENTED		LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
GEODETIC SURVEY MONUMENT		ACCESS RESTRICTED (BY ACQUISITION)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY STATUTORY AUTHORITY)	
TEMPORARY LIMITED EASEMENT		SECTION LINE	
PERMANENT LIMITED EASEMENT		QUARTER LINE	
R/W BOUNDARY POINT	1024.0	SIXTEENTH LINE	
PARCEL NUMBER	102	EXISTING CENTERLINE	
UTILITY PARCEL NUMBER	40	PROPOSED REFERENCE LINE	
SIGN NUMBER (OFF PREMISE)	21-1	PARALLEL OFFSET	
BUILDING			
BUILDING TO BE REMOVED			

CONVENTIONAL UTILITY SYMBOLS

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

HIGHWAY DESIGNATIONS

COUNTY TRUCK HIGHWAY =	
INTERSTATE HIGHWAY =	
STATE TRUCK HIGHWAY =	
UNITED STATES HIGHWAY =	

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE, GRANT COUNTY, NAD 83 (2007) U.S. SURVEY FEET, VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 61 ESTABLISHED FROM PREVIOUS RW PROJECT 9577. EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS. EXISTING ACCESS CONTROL ALONG USH 61 ESTABLISHED FROM PREVIOUS PROJECT 1650-01-29.

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 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 IMPROVEMENT 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.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.01
SHEET 2 OF 2

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.08.05.USH61.SURVEY.BASE.DWG PLOT DATE : 9/14/2015 1:13 PM PLOT BY : GROMACKI, ANTHONY PLOT NAME : _____PLOT SCALE : ********

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.01

LANCASTER-BOSCOBEL CITY LIMTS ST TO FENNIMORE CITY LIMITS

PART OF LOT 1 AND LOT 5, IHM ESTATES SUBDIVISION, AS DOCUMENT NO. 566845 AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4, ALL IN SECTION 34, TOWNSHIP 5 NORTH, RANGE 3 WEST, CITY OF LANCASTER, GRANT COUNTY, WISCONSIN.

DOCUMENT 773370

WAS ACCEPTED IN THE OFFICE OF THE REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 2:30 P.M., ON SEPT. 18, 2015 AND WAS

FILED IN CABINET. C, PAGE 42

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.01
SHEET 1 OF 2

80

1650-06-23-4.01

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

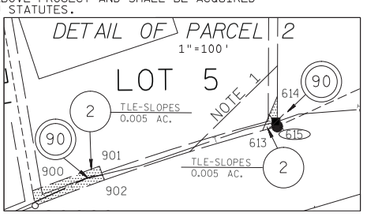
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

SCHEDULE OF LAND AND INTEREST REQUIRED

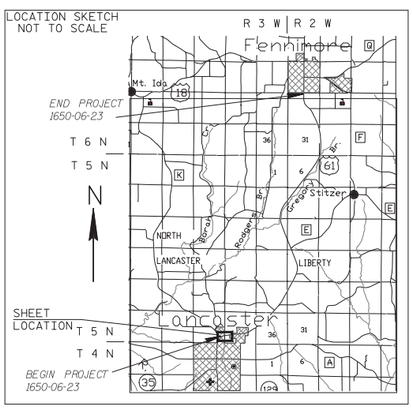
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP ACRES
1	HEARTLAND CREDIT UNION	TLE	0.04
2	O'REILLY AUTOMOTIVE, INC. A MISSOURI CORPORATION	TLE	0.01

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.



1" IP
Y=529745.76
X=820605.02



GN

SCALE, FEET
0 100 200

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 572	2007
USH 61	IHM ESTATES	1994
CTH K	IHM ESTATES	1994
CTH K	R/W PROJECT 5805-0-00	1980
ENTERPRISE STREET	IHM ESTATES	1994

CITY

NE SE
34-5-3W

OF

LANCASTER

NOTE 1:
VISION CORNER AS SHOWN ON IHM ESTATES SUBDIVISION.

PI STA = 2078+78.20
Y = 528382.05
X = 820045.89
DELTA = 52°15'30"
D = 3°58'34"
T = 706.85
L = 1314.30
R = 1441.00

SE SE
34-5-3W

CSM 572
DOC. 14
P. 169
LOT 1

50' WIDE EASEMENT FOR INGRESS & EGRESS

SIXTEENTH LINE

QUARTER LINE

CITY LIMITS ST

N89° 10' 40"W 2,678.68'

S00° 14' 29"W 2,673.99'

MATCHLINE 4.02
STA. 2083+35.37
Y = 528442.1028'
X = 820599.5325'
INT. W/SEC. LINE

1370.32' TO R/L

C.T.H. K

USH 61

R/L = C/L

ENTERPRISE ST

IHM ESTATES
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5

6' WIDE UTILITY EASEMENT

SEE DETAIL

*6REBAR/GRANT COUNTY ALUM CAP
Y=527110.25
X=817915.36

*6REBAR/GRANT COUNTY ALUM CAP
Y=527071.80
X=820593.76

STA. 2063+75.66
Y = 527090.69'
X = 819277.76'

STATION OFFSET TABLE		
Point	Station	Offset
481	2063+64.08	20.11' LT
482	2065+00.65	100.20' LT
483	2066+73.39	49.16' LT
484	2083+51.71	73.22' LT
485	2064+85.13	54.00' LT
486	2064+26.25	87.89' RT
603	2071+99.54	63.57' RT
604	2071+98.81	67.63' LT
605	2071+98.80	71.43' LT
608	2072+86.78	71.90' LT
609	2073+05.06	101.13' LT
610	2074+01.92	57.50 LT
611	2074+50.00	57.73' LT
612	2074+04.06	120.00' LT
613	2082+80.09	60.52' LT
614	2082+94.60	79.86' LT
615	2082+89.69	60.54' LT
626	2083+20.80	59.41' RT
900	2081+30.17	70.00' LT
901	2081+75.00	70.00' LT
902	2081+75.00	60.32' LT

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20053	1" IRON PIPE	527249.17	819290.63
20054	1" IRON PIPE	527518.42	819441.56
20055	1" IRON PIPE	527506.11	819462.73
20064	1" IRON PIPE	528178.82	819949.81
20065	1" IRON PIPE	528366.85	820227.32
20066	1" IRON PIPE	528436.77	820380.23

COURSE TABLE		
COURSE	BEARING	DISTANCE
396-486	N89°10'40"W	1214.73'
486-481	N89°10'40"W	124.61'
481-482	N00° 19' 51"E	158.35'
482-20053	S89° 40' 09"E	35.16'
20053-483	N38° 23' 27"E	156.34'
483-20055	N29°09'59"E	153.92'
20055-604	N28°36'07"W	373.11'
604-605	N58° 27' 53"W	3.80'
608-609	N20° 45' 54"W	35.06'
609-612	N28° 00' 04"E	108.23'
612-610	S47° 57' 40"E	62.54'
615-484	N65° 23' 23"E	66.12'
484-626	S00° 14' 29"W	136.21'
603-485	S31°32-07"W	713.23'
485-486	S00°49'21"W	67.94'

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
605-608	92.37'	1507.50'	N33°17'26"W	92.35'
610-615	924.28'	1492.50'	N57°22'47"E	909.58'
626-603	1073.72'	1372.50'	S53°56'48"W	1046.55'

UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
IHM ESTATES SUBD.	HIGHWAY 61 ACCESS RESTRICTION DOC. 566845	1, 2
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT IS SHOWN ON THE IHM ESTATES SUBDIVISION DOC. 566845	1, 2
FARMERS TELEPHONE COMPANY	DOC. #447264 V. 506, P.157	1, 2

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-9-15
DATE

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

CORY SCHLAGEL

9/14/2015
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.08.05.USH61.SURVEY.BASE.DWG
PLOT DATE : 9/14/2015 11:47 AM PLOT BY : Gromacki, Anthony PLOT NAME : PLOT_SCALE_1_IN:200 FT

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.02 AMENDMENT NO. 1

THIS AMENDS UTILITY NUMBER 90 AND ADDS UTILITY NUMBERS 91, 93, AND 94 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.02, RECORDED AS DOCUMENT 774527 AND FILED IN CABINET C, PAGE 43, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF OUTLOT 1, CSM 1517, VOL. 14, PG. 77, DOC. 723183 AND PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4, AND NORTHEAST 1/4 OF THE SOUTHWEST 1/4, TOWN OF NORTH LANCASTER, AND LOT 3 LANCASTER INDUSTRIAL PARK SUBDIVISION AND PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4, IN THE CITY OF LANCASTER, ALL IN SECTION 35, TOWNSHIP 5 NORTH, RANGE 3 WEST,GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

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

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.				
			R/W REQUIRED ACRES			T.L.E.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	NEW	EXISTING	TOTAL	TEMP ACRES
3	L MACK LLC	FEE, TLE	0.03	0.12	0.15	0.03
4	GRANT COUNTY, A MUNICIPAL CORPORATION	FEE	0.03	0.81	0.84	---
5	DAVID L. NOBLE	FEE	0.03	0.84	0.87	---
6	LLOYD J. RUNDE AND DONNA M. RUNDE	FEE	0.01	0.03	0.04	---
7	LAUREN J. MATTHEWS AND MATTHEWS J. HASKINS, CO-TRUSTEES, JOHN F. HASKINS IRREVOCABLE 2012 GIFT TRUST	FEE	0.01	0.54	0.55	---
8	NOVA DIRECTORIES INC.	FEE	0.01	0.16	0.17	---
9	MILPRINT INC., A WISCONSIN CORPORATION	FEE	0.01	0.30	0.31	---
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						

*8REBAR/GRANT COUNTY ALUM CAP
Y=529694.40
X=823250.83

DOCUMENT 781520
FILED IN CABINET C,
PAGE 43A
OCTOBER 5, 2016

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.02
AMENDMENT NO. 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
ENTERPRISE ST	CSM 1517	2009
COMMERCIAL DR	LANCASTER INDUSTRIAL PARK	1983
BEMIS RD	DOC. 494094	1983

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
625-626	159.36'	1372.50'	S79° 41' 05"W	159.27'

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
150	1" IRON PIPE	528464.42	821203.45
151	1" IRON PIPE	528501.23	821504.07
152	1" IRON PIPE	528610.44	821490.88
20068	1" IRON PIPE	528564.28	820697.04
20181	1" IRON PIPE	528744.18	822587.47

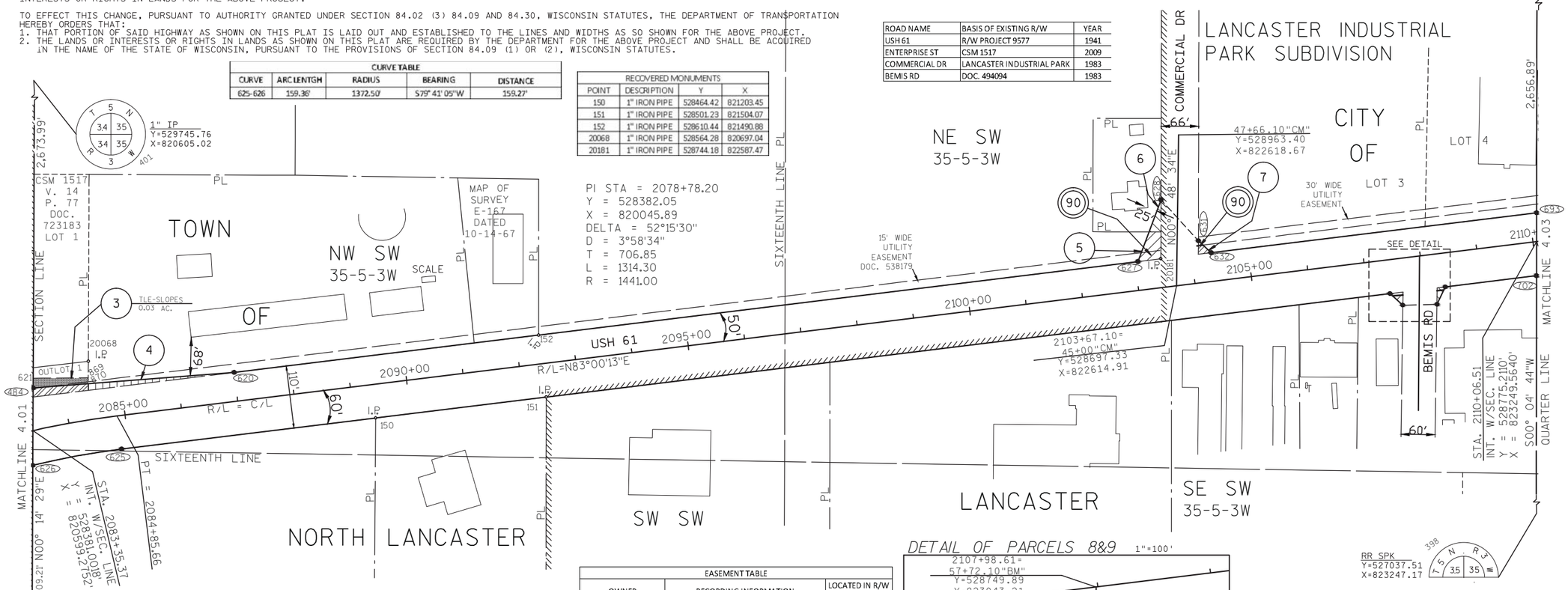
PI STA = 2078+78.20
Y = 528382.05
X = 820045.89
DELTA = 52°15'30"
D = 3°58'34"
T = 706.85
L = 1314.30
R = 1441.00

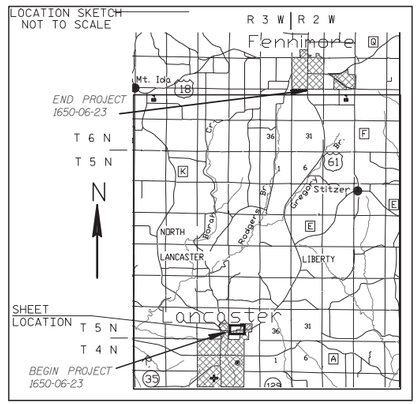
STATION OFFSET TABLE		
Point	Station	Offset
484	2083+51.71	73.22' LT
620	2087+00.00	50.75' LT
621	2083+51.51	73.22' LT
622	2087+00	50.75' LT
625	2084+86.95	59.22' RT
626	2083+20.80	59.41' RT
627	2103+05.00	50.54' LT
628	46+51.00 "CM"	29.37' LT
631	45+80.00 "CM	37.50' RT
632	2104+35.00	50.52' LT
688	2108+37.00	59.53' RT
689	56+87.00 "BM"	31.22' RT
690	56+85.00 "BM"	28.79' LT
691	2107+39.00	59.52' RT
693	2110+12.78	50.44' LT
702	2109+99.12	59.55' RT
869	2084+45.69	73.36' LT
870	2084+44.14	62.94' LT

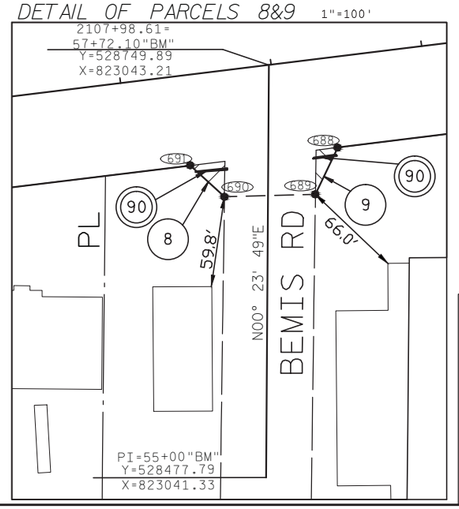
COURSE TABLE		
COURSE	BEARING	DISTANCE
396-626	N00° 14' 29"E	1309.21'
626-484	N00° 14' 29"E	136.21'
484-620	N85° 34' 27"E	355.26'
620-627	N83° 00' 40"E	1605.00'
627-628	N20° 26' 45"E	116.12'
628-631	S42° 28' 22"E	97.54'
631-632	S47° 03' 45"E	30.89'
632-693	N83° 00' 40"E	577.77'
693-702	S00° 04' 44"W	110.84'
702-688	S83° 00' 40"W	162.13'
688-689	S25° 27' 58"W	34.23'
689-690	S88° 29' 05"W	60.05'
690-691	N47° 35' 57"W	30.50'
691-625	S83° 00' 40"W	2252.05'

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	V. 686, P. 754 DOC. 538178 BLANKET EASEMENT	5, 7
IOLA L. JOY	WATER AND WELL RIGHTS DOC. 496279 BLANKET EASEMENT	5
WISCONSIN POWER AND LIGHT COMPANY	V. 409, P. 182 DOC. 402344 BLANKET EASEMENT	6
IOLA L. JOY AND ORVAL AND ALICE BURNS	WATER AND WELL RIGHTS VOL. 350, PG. 410 DOC. 312703 BLANKET EASEMENT	6
WISCONSIN GAS COMPANY	V. 488, P. 35 DOC. 436745 TRANSFER TO V. 1032, P. 424 DOC. 669963 SOUTH OF USH 61	8
CITY OF LANCASTER	V. 504, P. 756 DOC. 446396 SANITARY SEWER EASEMENT SOUTH OF USH 61	8
JAMES AND GERALYN BRYHAN	V. 1212, P. 224 DOC. 718440 DRIVEWAY EASEMENT SOUTH OF USH 61	8
CITY OF LANCASTER	V. 475, P. 64 DOC. 429244 RESTATED VOL. 476, PG. 71 DOC. 429820 SANITARY SEWER EASEMENT SOUTH OF USH 61	9
FARMERS TELEPHONE COMPANY	NO EASEMENT OF RECORD	8, 9
LANCASTER INDUSTRIAL PARK SUBDIVISION	V.593 P. 414 DOC. 496038	7

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS
91	WISCONSIN POWER AND LIGHT CO. (ALLIANT ENERGY)	RELEASE OF RIGHTS
93	CITY OF LANCASTER	RELEASE OF RIGHTS
94	WISCONSIN GAS CO. (WE ENERGIES)	RELEASE OF RIGHTS









M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.02 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090
9-22-16
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

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

CORY SCHLAGEL
9-23-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.09.20.USH61.SURVEY.BASE.DWG PLOT DATE : 9/22/2016 1:04 PM PLOT BY : ANTHONY GROMACKI PLOT NAME : _____ PLOT SCALE : 1 IN:200 FT

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.03

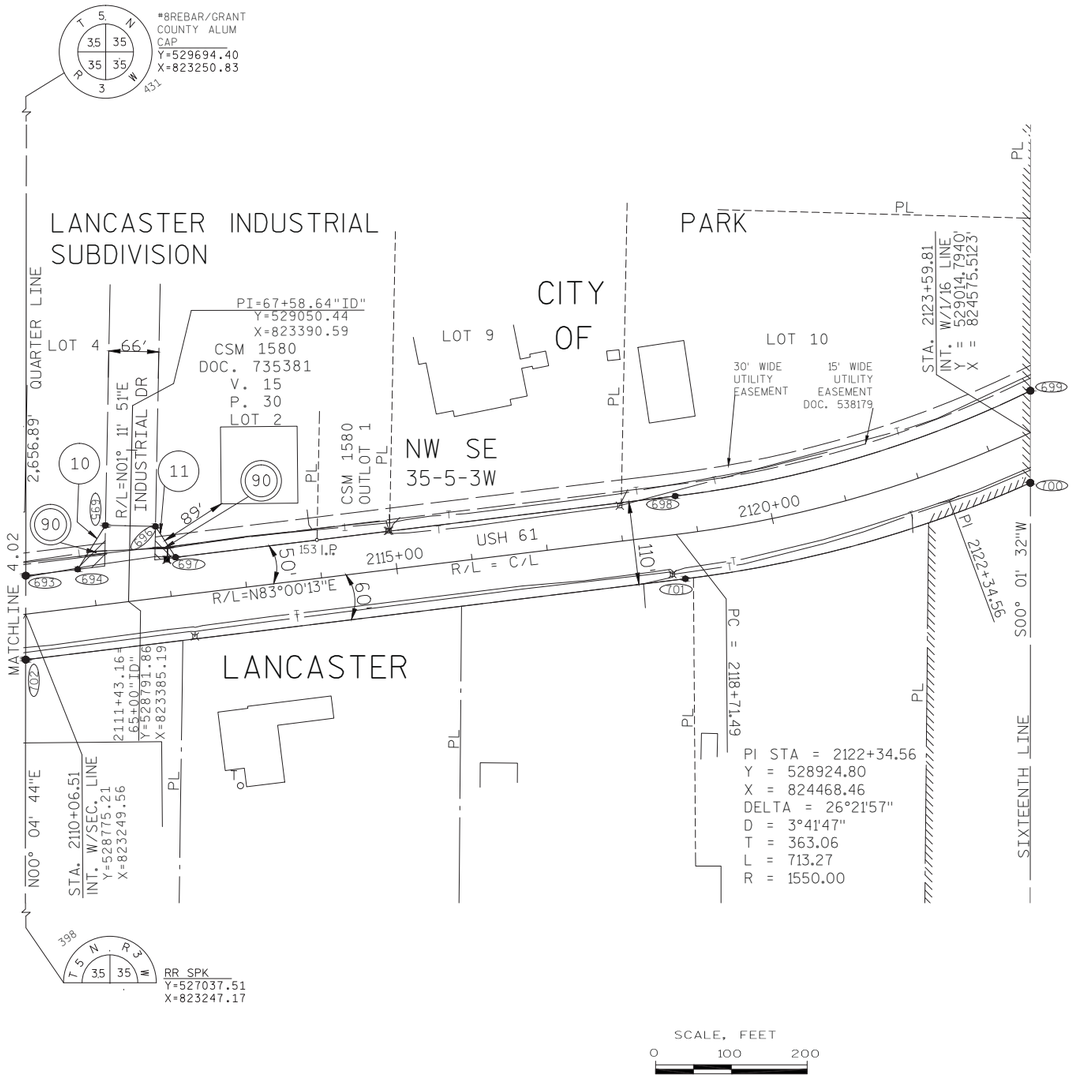
LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS
PART OF LOT 4 OF LANCASTER INDUSTRIAL PARK SUBDIVISION AND LOT 2 OF CERTIFIED SURVEY MAP 1580, VOL. 15, PAGE 30, DOCUMENT 735381, ALL IN NORTHWEST 1/4 OF THE SOUTHEAST 1/4 SECTION 35, TOWNSHIP 5 NORTH, RANGE 3 WEST, CITY OF LANCASTER, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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



SCHEDULE OF LAND AND INTEREST REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.		
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
10	HASKIN REAL ESTATE PATRNERSHIP AND DARREL D. HASKINS, CO-PARTNERS	FEE	0.02	0.20	0.22
11	VENDOR: GERALD W. KNAPPER AND CYNHIA L. KNAPPER VENDEE: M&N INVESTMENTS, L.L.C.	FEE	0.01	0.32	0.33
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.					

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
INDUSTRIAL DR	LANCASTER INDUSTRIAL PARK	1983

DOCUMENT 774528

WAS ACCEPTED IN THE OFFICE OF REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 1:00 P.M., ON NOV. 13, 2015 AND WAS

FILED IN CABINET C, PAGE 44

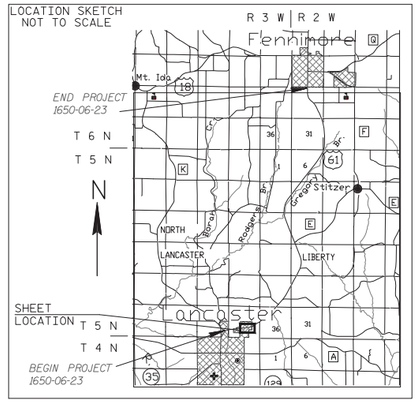
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.03

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	V. 669 P. 755 DOC. 538179	10, 11
LANCASTER INDUSTRIAL PARK SUBDIVISION	V.593 P. 414 DOC. 496038	10, 11
FARMERS TELEPHONE COMPANY	V. 669 P. 756 DOC. 538180	11

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
153	1" IRON PIPE	528873.16	823633.95

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS



GN

COURSE TABLE		
COURSE	BEARING	DISTANCE
398-702	N 00°04'44" E	1677.69'
702-693	N 00°04'44" E	110.84'
693-694	N 83°00'40" E	69.22'
694-695	N 32°08'28" E	68.55'
695-696	S 88°48'09" E	66.00'
696-697	S 33°03'23" E	48.74'
697-698	N 83°00'40" E	664.31'
699-700	S 00°01'32" W	121.45'
701-702	S 83°00'40" W	877.17

STATION OFFSET TABLE		
Point	Station	Offset
691	2107+39.00	59.52' RT
693	2110+12.78	50.44' LT
694	2110+82.00	50.44' LT
695	66+00.00 "ID"	32.48' LT
696	66+00.00 "ID"	33.52' RT
697	2112+12.00	50.42' LT
698	2118+76.47	50.32' LT
699	2123+84.01	49.88' LT
700	2123+32.81	60.18' RT
701	2118+76.12	59.68' RT
702	2109+99.12	59.55' RT

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
698-699	491.20'	1478.00'	N73° 29' 24"E	488.94'
700-701	474.40'	1588.00'	S74° 27' 10"W	472.64'

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-11-15
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

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

CORY SCHLAGEL

10/29/2015
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.10.15.USH61.SURVEY.BASE.DWG PLOT DATE : 10/27/2015 7:56 AM PLOT BY : GROMACKI, ANTHONY PLOT NAME : _____ PLOT SCALE : **********

1650-06-23 4.03

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.04
LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF LOT 1, CSM 1384, DOC, 702585, PG. 153, AND PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 36, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

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

DOCUMENT 774614

WAS ACCEPTED IN THE OFFICE OF THE REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 10:30 A.M., ON NOV. 17, 2015 AND WAS

FILED IN CABINET C, PAGE 51

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.04

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
12	VENDORS: RALPH L. NOBLE AND WILMA NOBLE PURCHASER: MAJESTIC VIEW LAND LLC, A WISCONSIN LIMITED LIABILITY CORP.	FEE	0.37	6.66	7.03	0.12
13	DAVID L.NOBLE AND DIXIE LEE NOBLE	FEE, TLE	---	0.12	0.12	0.06
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						

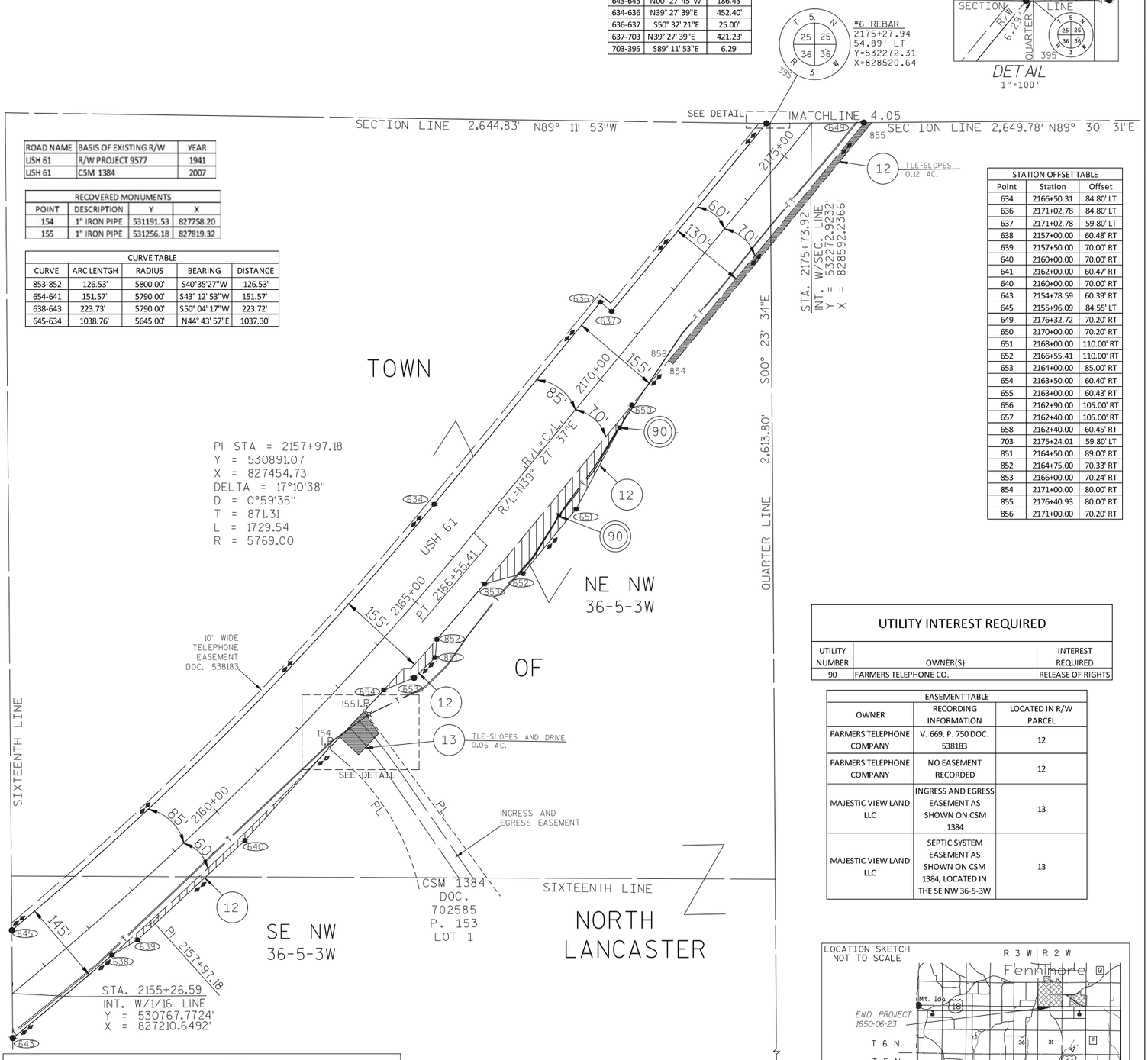
COURSE TABLE		
COURSE	BEARING	DISTANCE
395-649	N89° 30' 31"E	163.18'
649-650	S39° 27' 39"W	632.72'
650-651	S28° 12' 18"W	203.92'
651-652	S39° 27' 37"W	144.59'
652-853	S74°58'39"W	68.90'
852-851	S04°59'27"W	31.48'
851-653	S46°15'34"W	50.91'
653-654	S68°09'21"W	56.29'
641-640	S42° 16' 41"W	202.48'
640-639	S47° 12' 40"W	253.02'
639-638	S59° 21' 41"W	51.45'
643-645	N00° 27' 45"W	186.43'
634-636	N39° 27' 39"E	452.40'
636-637	S50° 32' 21"E	25.00'
637-703	N39° 27' 39"E	421.23'
703-395	S89° 11' 53"E	6.29'

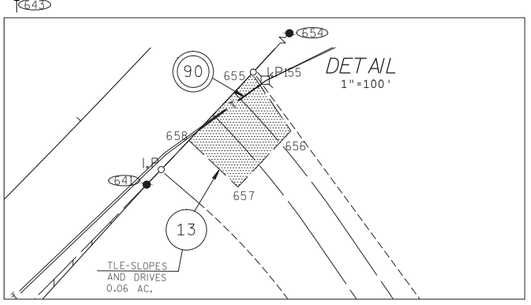
ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 1384	2007

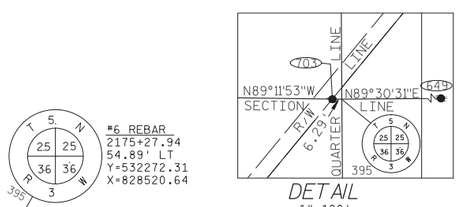
RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
154	1" IRON PIPE	531191.53	827758.20
155	1" IRON PIPE	531256.18	827819.32

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
853-852	126.53'	5800.00'	S40°35'27"W	126.53'
654-641	151.57'	5790.00'	S43° 12' 53"W	151.57'
638-643	223.73'	5790.00'	S50° 04' 17"W	223.72'
645-634	1038.76'	5645.00'	N44° 43' 57"E	1037.30'

STATION OFFSET TABLE		
Point	Station	Offset
634	2166+50.31	84.80' LT
636	2171+02.78	84.80' LT
637	2171+02.78	59.80' LT
638	2157+00.00	60.48' RT
639	2157+50.00	70.00' RT
640	2160+00.00	70.00' RT
641	2162+00.00	60.47' RT
640	2160+00.00	70.00' RT
643	2154+78.59	60.39' RT
645	2155+96.09	84.55' LT
649	2176+32.72	70.20' RT
650	2170+00.00	70.20' RT
651	2168+00.00	110.00' RT
652	2166+55.41	110.00' RT
653	2164+00.00	85.00' RT
654	2163+50.00	60.40' RT
655	2163+00.00	60.43' RT
656	2162+90.00	105.00' RT
657	2162+40.00	105.00' RT
658	2162+40.00	60.45' RT
703	2175+24.01	59.80' LT
851	2164+50.00	89.00' RT
852	2164+75.00	70.33' RT
853	2166+00.00	70.24' RT
854	2171+00.00	80.00' RT
855	2176+40.93	80.00' RT
856	2171+00.00	70.20' RT





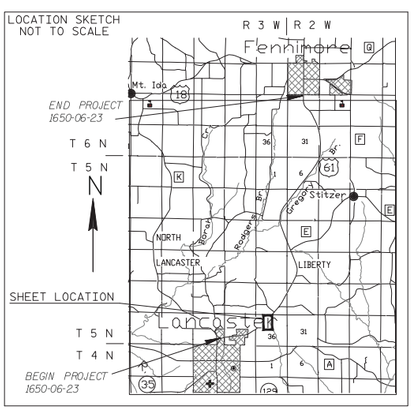


#6 REBAR
2175+27.94
54.89' LT
Y=532272.31
X=828520.64

UTILITY INTEREST REQUIRED

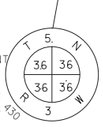
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	V. 669, P. 750 DOC. 538183	12
FARMERS TELEPHONE COMPANY	NO EASEMENT RECORDED	12
MAJESTIC VIEW LAND LLC	INGRESS AND EGRESS EASEMENT AS SHOWN ON CSM 1384	13
MAJESTIC VIEW LAND LLC	SEPTIC SYSTEM EASEMENT AS SHOWN ON CSM 1384, LOCATED IN THE SE NW 36-5-3W	13



GN

#8REBAR/GRANT COUNTY ALUM CAP
Y=529658.57
X=828538.56



SCALE, FEET
0 100 200

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-11-15
DATE

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

CORY SCHLAGEL

11-12-15
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.10.15.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/10/2015 9:45 AM PLOT BY : Gromacki, Anthony PLOT NAME : PLOT.SCALE.1.1.IN200 FT
1650-06-23 4.04
83

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.05

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4, NORTHWEST 1/4 OF THE SOUTHEAST 1/4, NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DOCUMENT 774529

WAS ACCEPTED IN THE OFFICE OF REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 1:00 P.M., ON NOV. 13, 2015 AND WAS

FILED IN CABINET C, PAGE 45

84

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.05

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

SCHEDULE OF LAND AND INTEREST REQUIRED

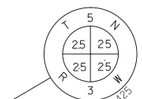
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

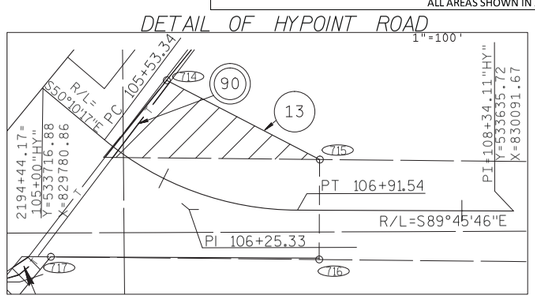
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
12	VENDORS: RALPH L. NOBLE AND WILMA NOBLE PURCHASER: MAJESTIC VIEW LAND LLC, A WISCONSIN LIMITED LIABILITY CORP.	FEE, TLE	0.13	3.90	4.03	0.08
13	DAVID L. NOBLE AND DIXIE LEE NOBLE	FEE, TLE	0.08	0.99	1.07	0.07
15	TIM-DAR RENTAL PARTNERSHIP	FEE	0.02	0.14	0.16	---

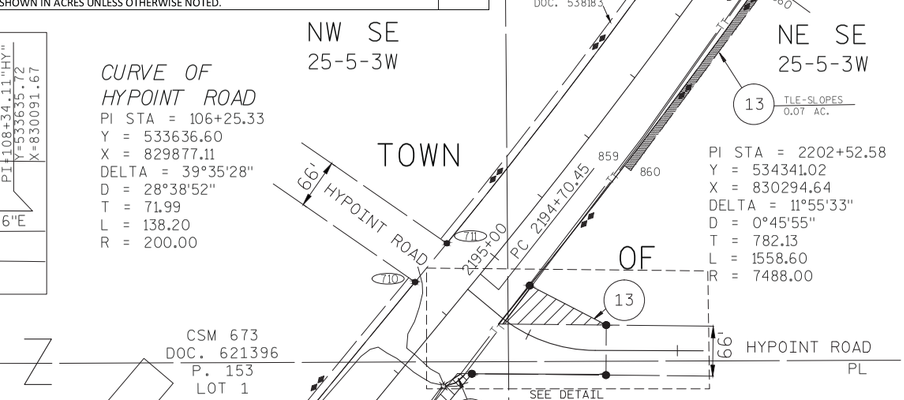
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

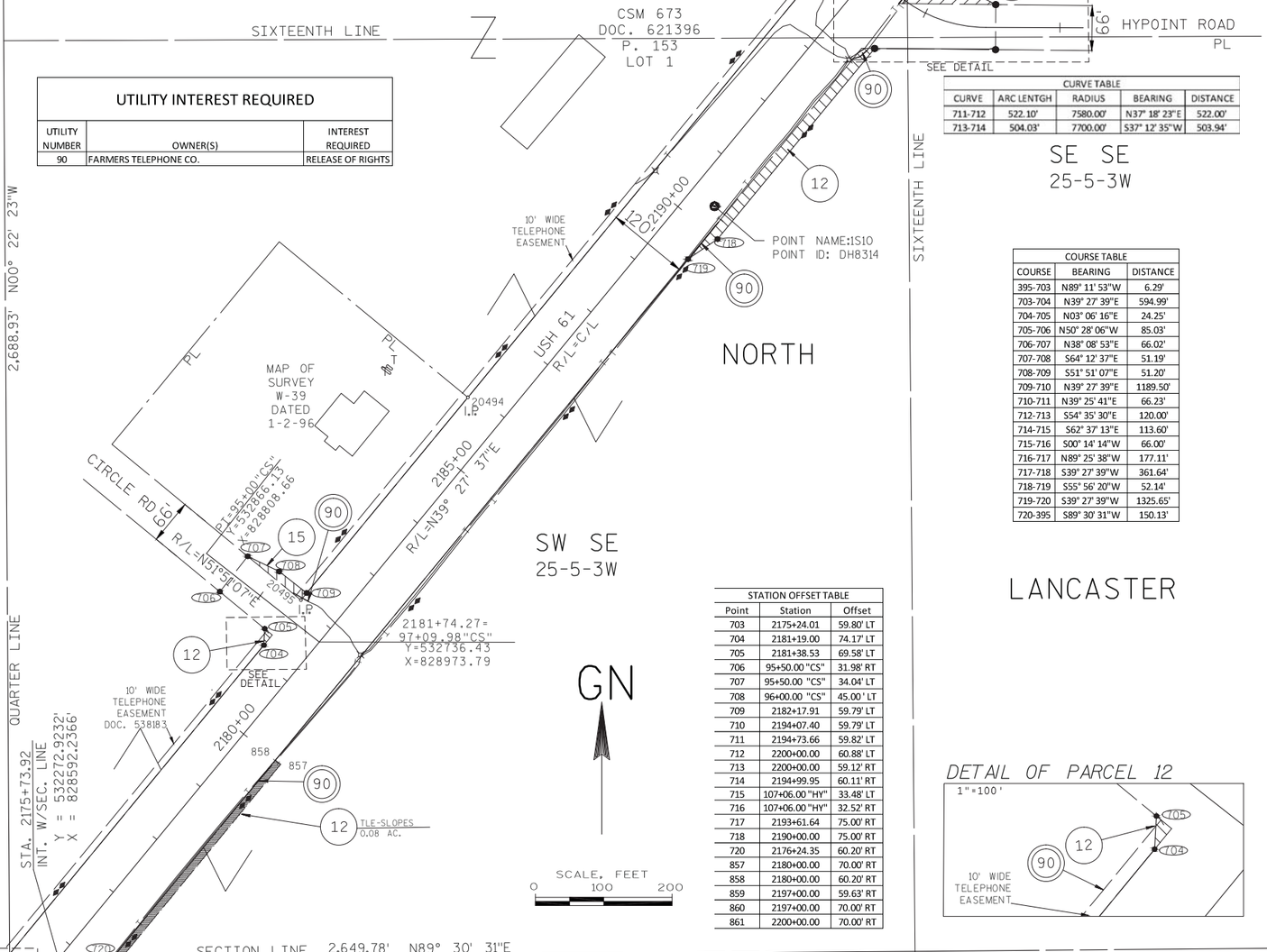
UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS





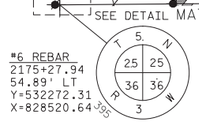


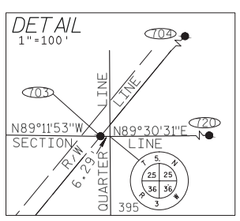


CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
711-712	522.10'	7580.00'	N37° 18' 23"E	522.00'
713-714	504.03'	7700.00'	S37° 12' 35"W	503.94'

COURSE TABLE		
COURSE	BEARING	DISTANCE
395-703	N89° 11' 53"W	6.29'
703-704	N39° 27' 39"E	594.99'
704-705	N03° 06' 16"E	24.25'
705-706	N50° 28' 06"W	85.03'
706-707	N38° 08' 53"E	66.02'
707-708	S64° 12' 37"E	51.19'
708-709	S51° 51' 07"E	51.20'
709-710	N39° 27' 39"E	1189.50'
710-711	N39° 25' 41"E	66.23'
712-713	S54° 35' 30"E	120.00'
714-715	S62° 37' 13"E	113.60'
715-716	S00° 14' 14"W	66.00'
716-717	N89° 25' 38"W	177.11'
717-718	S39° 27' 39"W	361.64'
718-719	S55° 56' 20"W	52.14'
719-720	S39° 27' 39"W	1325.65'
720-395	S89° 30' 31"W	150.13'

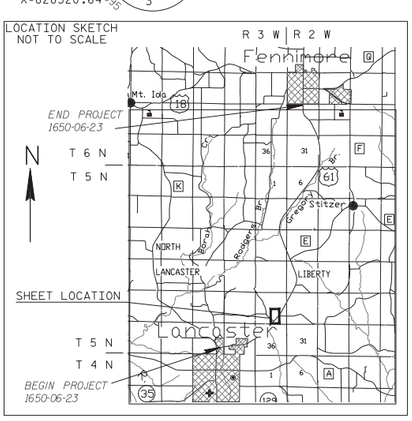
STATION OFFSET TABLE		
Point	Station	Offset
703	2175+24.01	59.80' LT
704	2181+19.00	74.17' LT
705	2181+38.53	69.58' LT
706	95+50.00 "CS"	31.98' RT
707	95+50.00 "CS"	34.04' LT
708	96+00.00 "CS"	45.00' LT
709	2182+17.91	59.79' LT
710	2194+07.40	59.79' LT
711	2194+73.66	59.82' LT
712	2200+00.00	60.88' LT
713	2200+00.00	59.12' RT
714	2194+99.95	60.11' RT
715	107+06.00 "HY"	33.48' LT
716	107+06.00 "HY"	32.52' RT
717	2193+61.64	75.00' RT
718	2190+00.00	75.00' RT
720	2176+24.35	60.20' RT
857	2180+00.00	70.00' RT
858	2180+00.00	60.20' RT
859	2197+00.00	59.63' RT
860	2197+00.00	70.00' RT
861	2200+00.00	70.00' RT





RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20494	1" IRON PIPE	533094.87	829190.69
20495	1" IRON PIPE	532798.43	828946.06

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
MAJESTIC VIEW LAND LLC	INGRESS AND EGRESS EASEMENT V. 1152 P. 623 DOC. 702956 AS SHOWN ON CSM 1384	12
GRANT ELECTRIC COOPERTIVE	RURAL ELECTRIC LINE EASEMENT BOOK 3, P. 560 DOC. 139061. OUTSIDE PROJECT LIMITS	12
WISCONSIN TELEPHONE COMPANY	EASEMENT V. 249, P. 559 DOC. 178566. OUTSIDE PROJECT LIMITS	12
WISCONSIN TELEPHONE COMPANY	EASEMENT V. 255, P. 296 DOC. 146687. OUTSIDE PROJECT LIMITS	12
TERRY AND SUZANNE KABER	WATER PIPELINE EASEMENT V. 579, P. 244 DOC. 488560. OUTSIDE PROJECT LIMITS	12
FARMERS TELEPHONE COMPANY	TELEPHONE EASEMENT V.669 P. 759 DOC.# 538183	12, 13, 15
FARMERS TELEPHONE COMPANY	TELEPHONE EASEMENT V.1024 P. 947 DOC.# 667822	12
FARMERS TELEPHONE COMPANY	TELEPHONE EASEMENT V. 507 P. 406 DOC.# 448082	12, 13
TERRY AND SUZANNE KABER	WATER EASEMENT V. 740, P. 289 DOC. 572083. OUTSIDE PROJECT LIMITS	15



ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
CIRCLE RD	R/W PROJECT 9577	1941
HYPOINT RD (WEST)	CSM 673	2000
HYPOINT RD (EAST)	R/W PROJECT 9577	1941

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-11-15
DATE

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

CORY SCHLAGEL

11-3-15
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.10.15.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/3/2015 1:23 PM
PLOT BY : Gromacki, Anthony
PLOT NAME : PLOT SCALE.1.1.IN:200 FT
1650-06-23 4.05

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.06 AMENDMENT NO. 1

THIS AMENDS PARCELS 13 AND 17 OF TRANSPORTATION PROJECT PLAT 1650-06-23-4.06, RECORDED AS DOCUMENT 774530 AND FILED IN CABINET C, PAGE 46, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4, AND SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER,GRANT COUNTY, WISCONSIN

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DOCUMENT 776627

WAS ACCEPTED IN THE OFFICE OF THE REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 10:15 A.M., ON MARCH 1, 2016, AND WAS FILED IN CABINET C, PAGE 64

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.06
AMENDMENT 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
13	DAVID L. NOBLE AND DIXIE LEE NOBLE	FEE	0.51	1.80	2.31
17	LAUREN J. MATTHEWS AND MATTHEW J. HASKINS, CO-TRUSTEES, JOHN F. HASKINS IRREVOCABLE 2012 GIFT TRUST	FEE	0.58	2.29	2.87

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
712-659	1031.43'	7580.00'	N31° 26' 06"E	1030.63'

STATION OFFSET TABLE		
Point	Station	Offset
659	2210+39.82	60.79' LT
660	2213+05.61	60.78' LT
661	2213+00.42	70.78' LT
662	2221+97.65	70.74' LT
668	2201+00.00	59.01'RT
669	2206+00.00	90.00' RT
670	2210+29.05	90.00' RT
671	2212+50.00	59.22' RT
673	2215+00.00	59.23' RT
674	2217+00.00	156.00' RT
675	2217+72.72	156.00' RT
712	2200+00.00	60.88' LT
713	2200+00.00	59.12' RT

COURSE TABLE		
COURSE	BEARING	DISTANCE
388-675	N00° 32' 58"W	664.64'
675-674	S27° 32' 04"W	72.72'
674-673	S53° 21' 12"W	222.18'
673-671	S27° 32' 13"W	250.00'
671-670	S19° 36'09"W	223.08'
670-669	S29° 10' 34"W	434.15'
669-668	S36° 14' 28"W	505.83'
668-713	S34° 57' 34"W	100.79'
713-712	N54° 35' 30"W	120.00'
659-660	N27° 32' 13"E	265.79'
660-661	N89° 54' 55"W	11.27'
661-662	N27° 32' 13"E	897.24'
662-675	S 00° 32' 58"E	481.64'

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	V. 669, P. 750 DOC. 538183	13
FARMERS TELEPHONE COMPANY	V. 507, P. 406 DOC. 448082 BLANKET EASEMENT	13

*6REBAR/GRANT COUNTY ALUM CAP
Y=537619.44
X=831119.16

SIXTEENTH LINE

STA. 2220+65.08
INT. W/SEC. LINE
Y = 535953.2365'
X = 831351.1394'

SECTION LINE

MATCHLINE 4.07

TOWN

SE NE OF
25-5-3W

USH 61

R/L-N27° 32' 04"E

NORTH

N00° 32' 58"W
2,662.29'

PL

10' WIDE TELEPHONE EASEMENT DOC. 538183

2" IP
Y=534961.18
X=828503.13

STA. 2267+65.11
INT. W/1/4 LINE
Y = 534958.0590'
X = 830615.7587'
2,641.56'
N89° 54' 44"W

QUARTER LINE

PT 2210+29.05

NE SE
25-5-3W

R/L-C/L

*6 REBAR
Y=534957.28
X=831144.69

LANCASTER

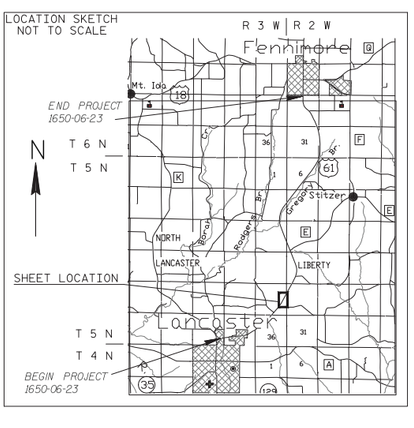
PI STA = 2202+52.58
Y = 534341.02
X = 830294.64
DELTA = 11°55'33"
D = 0°45'55"
T = 782.13
L = 1558.60
R = 7488.00

GN

SCALE, FEET
0 100 200

MATCHLINE 4.05

LOCATION SKETCH
NOT TO SCALE



M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.06 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

2-18-16
DATE

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

CORY SCHLAGEL

2/22/2016
DATE

1650-06-23 4.06 AMENDMENT 1

85

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CADD\2016.02.17.USH61.SURVEY.BASE.DWG PLOT DATE : 2/18/2016 11:21 AM PLOT BY : Gromacki, Anthony PLOT NAME : PLOT_SCALE.1:1.IN:200 FT

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.07 AMENDMENT NO. 2

THIS AMENDENDMENT ADDS UTILITY NUMBER 91 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.07 AMENDMENT NO.1, RECORDED AS DOCUMENT 776628 AND FILED IN CABINET C, PAGE 64A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND SOUTHWEST 1/4 OF THE NORTHWEST 1/4 SECTION 30, AND THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 SECTION 19, ALL IN TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

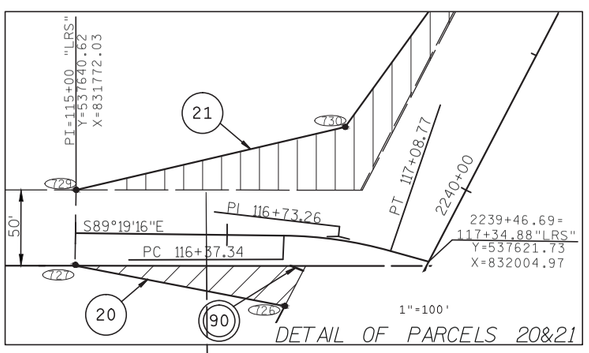
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

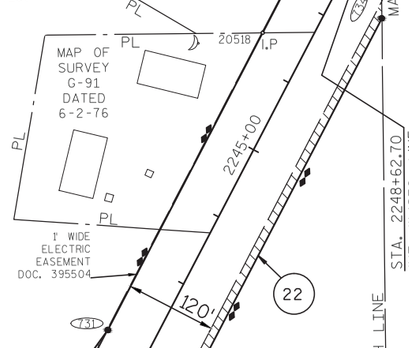
DOCUMENT 781521
FILED IN CABINET C,
PAGE 47A
OCTOBER 5, 2016

86

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.07
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.





TOWN

SW SW
19-5-2W

PI STA = 116+73.26
Y = 537638.59
X = 831945.28
DELTA = 15°06'20"
D = 21°08'51"
T = 35.92
L = 71.43
R = 270.93

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20496	1" IRON PIPE	536795.74	831494.58
20518	1" IRON PIPE	538265.74	832272.69

LIBERTY RIDGE ROAD
PL N89° 58' 06"W SECTION LINE PL 2,636.90'

BAR/GRANT COUNTY ALUM CAP
Y=537617.99
X=833756.06

*6REBAR/GRANT COUNTY ALUM CAP
Y=537619.44
X=831119.16

MAP OF SURVEY BOOK 25, P. 96 DATED 11-23-09

USH 61
2235+00
R/L N27° 32' 04"E
STA. 2239+43.56
INT. W/SEC. LINE

SECTION LINE
2,657.01' N00° 32' 58"E

MAP OF SURVEY BOOK 25, P. 96 DATED 11-23-09

NW NW
30-5-2W

140'

OF

20496 I.P
2230+00
R/L C/L 3928.00

2225+00

SEE DETAIL

SIXTEENTH LINE

LIBERTY

1' WIDE TELEPHONE EASEMENT DOC. 146687

STA. 2220+65.08
INT. W/SEC. LINE
Y = 535953.2365'
X = 831135.1394'

SW NW
30-5-2W

MATCHLINE 4.06

*8REBAR/GRANT COUNTY ALUM CAP
Y=534962.56
X=831144.64

DETAIL NOT TO SCALE

SIXTEENTH LINE

GN

0 100 200
SCALE, FEET

STATION OFFSET TABLE		
Point	Station	Offset
662	2221+97.65	70.74' LT
676	2219+21.63	76.54' RT
678	2221+00.00	59.25' RT
680	2223+00.00	70.74' LT
681	2223+50.00	80.00' LT
684	2224+74.22	59.27' RT
685	2224+79.45	69.27' RT
724	2225+00.00	80.00' LT
725	2225+50.00	70.73' LT
726	2238+76.79	70.67' LT
727	115+00.00 "LRS"	21.54' RT
729	115+00.00 "LRS"	28.46' LT
730	2240+00.00	90.00' LT
731	2242+00.00	60.66' LT
732	2249+76.38	60.62' LT
734	2247+32.01	70.02' RT
735	2241+60.64	70.06' RT
736	2241+00.00	120.00' RT
737	2240+06.04	120.00' RT
738	2239+00.00	69.33' RT
739	2235+00.00	69.31' RT
740	2234+00.00	100.00' RT
741	2227+00.00	100.00' RT
742	2225+00.00	69.27' RT

COURSE TABLE		
COURSE	BEARING	DISTANCE
383-662	S00°32'58"E	1516.01'
662-680	N27°32'13"E	102.35'
680-681	N17°02'20"E	50.85'
681-724	N27°32'04"E	150.00'
724-725	N38°02'30"E	50.85'
725-726	N27°32'13"E	1326.79'
726-727	N79°04'40"W	140.77'
727-729	N00°40'15"E	50.00'
729-730	N76°49'50"E	182.24'
730-731	N35°52'52"E	202.14'
731-732	N27°31'56"E	775.97'
732-734	S00°38'43"E	276.77'
734-735	S27°31'48"W	571.37'
735-736	S11°56'24"E	78.56'
736-737	S27°32'13"W	93.96'
737-738	S53°04'23"W	117.52'
738-739	S27°32'13"W	400.00'
739-740	S10°28'31"W	104.60'
740-741	S27°32'04"W	700.00'
741-742	S36°16'09"W	202.35'
742-685	S27°32'13"W	20.55'
685-684	S89°56'03"W	11.28'
684-678	S27°32'13"W	374.22'
678-676	S21°59'55"W	179.21'
676-663	N00°32'58"W	312.86'

UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS
91	WISCONSIN POWER AND LIGHT CO. (ALLIANT ENERGY)	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE	UTILITY EASEMENT V. 508 P. 623 DOC. 448811	17, 20
THOMAS AND ELAINE QUICK	INGRESS AND EGRESS EASEMENT V. 573, P. 223-224 DOC. 485308 BLANKET EASEMENT	18
GARY AND CHARLOTTE ADDISON	INGRESS AND EGRESS EASEMENT V. 596, P. 548 DOC. 498216 BLANKET EASEMENT	18
THOMAS AND ELAINE QUICK	INGRESS AND EGRESS EASEMENT V. 596, P. 408-409 DOC. 498120 BLANKET EASEMENT	18
FARMERS TELEPHONE	UTILITY EASEMENT DOC. 146687	18
MAXINE LANDON	WATER EASEMENT V. 585, P. 510 DOC. 492234 BLANKET EASEMENT	18
FARMERS TELEPHONE	UTILITY EASEMENT V. 508 P. 583 DOC. 448771	20
MAJESTIC VIEW LAND LLC	INGRESS AND EGRESS EASEMENT V. 1293, P. 919 DOC. 739407 BLANKET EASEMENT	20, 22
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 397 P. 520 DOC. 395504	21, 22
FARMERS TELEPHONE	UTILITY EASEMENT V. 508 P. 610 DOC. 448798 BLANKET EASEMENT	21, 22
FARMERS TELEPHONE	UTILITY EASEMENT V. 609 P. 766 DOC. 505278 BLANKET EASEMENT	21, 22
MAJESTIC VIEW LAND LLC	INGRESS AND EGRESS EASEMENT V. 1293, P. 920 DOC. 739408 BLANKET EASEMENT	22

SCHEDULE OF LAND AND INTEREST REQUIRED

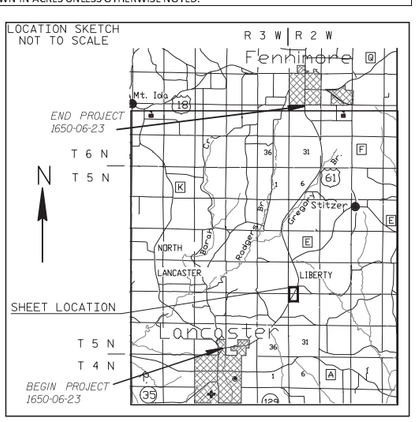
OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
17	LAUREN J. MATTHEWS AND MATTHEW J. HASKINS, CO-TRUSTEE, JOHN F. HASKINS IRREVOCABLE GIFT TRUST	FEE	0.67	3.30	3.97
18	GARY E. ADDISON AND CHARLOTTE ADDISON	FEE	0.05	1.10	1.15
20	VINCENT EXCAVATING LLC	FEE	0.05	0.84	0.89
21	ALAN J. WEPKING	FEE	0.17	0.81	0.98
22	MAJESTIC VIEW LAND LLC, A WISCONSIN LIMITED LIABILITY CO.	FEE	0.30	1.24	1.54

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH61	R/W PROJECT 9577	1941

LOCATION SKETCH
NOT TO SCALE



I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.07 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPPESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090
9-22-16
DATE

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

CORY SCHLAGEL
9-23-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.09.20.USH61.SURVEY.BASE.DWG
PLOT DATE : 9/22/2016 1:10 PM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT_SCALE.1.1=200 FT
1650-06-23 4.07 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.08

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 19, TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

DOCUMENT 774532

WAS ACCEPTED IN THE OFFICE OF REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 1:00 P.M., ON NOV. 13, 2015 AND WAS

FILED IN CABINET C., PAGE 48

87

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.08

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	P.L.E. ACRES
22	MAJESTIC VIEW LAND LLC, A WISCONSIN LIMITED LIABILITY CO.	FEE	0.17	1.12	1.29	---
24	LIBERTY RIDGE-ST. PAULS CEMETERY AND GERMAN EVANGELICAL CHURCH OF THE TOWNS OF LIBERTY AND LANCASTER	FEE, PLE	0.11	0.81	0.92	0.10
25	BERNADEAN DIVALL	FEE	0.50	3.84	4.34	---
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
757-758	516.61'	2925.00'	S03°22'21"E	515.94'
761-762	281.26'	2925.00'	S14°26'24"W	281.15'
732-743	149.39'	2805.00'	N25°37'42"E	149.37'
743-906	87.43'	2805.00'	N23°12'34"E	87.43'
750-751	587.34'	2805.00'	N08°41'12"E	586.27'
754-755	24.09	925.23'	N08°33'22"W	24.09'

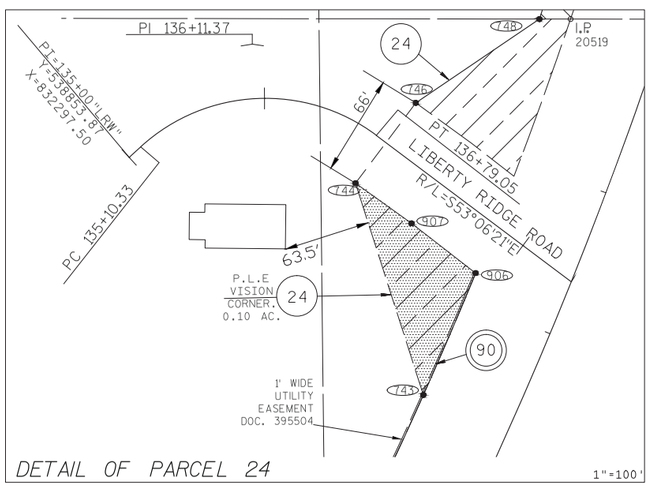
P.L.E CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
906-743	87.43'	2805.00'	S23°12'34"W	87.43'

COURSE TABLE		
COURSE	BEARING	DISTANCE
445-757	N 89°51'06" W	897.96'
758-759	S04° 44' 08"E	207.41'
759-903	S06° 40' 11"W	103.14'
903-760	S12° 36' 29"W	51.69'
760-761	S19° 56' 15"W	156.06'
762-763	S08° 47' 58"W	297.76'
763-764	S34° 39' 11"W	302.69'
764-734	S27° 31' 48"W	167.99'
734-732	N00° 38' 43"W	276.77'
906-907	N52°09'57"W	53.56'
907-744	N54°22'12"W	45.45'
744-746	N36° 53' 39"E	66.29'
746-748	N55° 51' 57"E	98.53'
748-749	N17° 13' 42"E	151.20'
749-750	N36° 56' 44"E	52.52'
751-752	N08° 24' 01"W	148.24'
752-753	N01° 49' 57"W	145.53'
753-754	N00° 00' 46"W	244.85'
755-757	S 89°51'06" E	121.42'

P.L.E COURSE TABLE		
COURSE	BEARING	DISTANCE
743-744	N17° 46' 40"W	146.69'
744-907	S54°22'12"E	45.45'
907-906	S52°09'57"E	53.56'

*BREBAR/GRANT COUNTY ALUM CAP
Y=540262.36
X=836376.62

T 5 N R 2 W 19 19 443



MATCHLINE 4.09

PL 2,692.52' N89° 51' 06"W QUARTER LINE

*BREBAR/GRANT COUNTY ALUM CAP
Y=540274.71
X=831092.97

T 5 N R 2 W 19 19 19 19 445

STA. 2267+65.11
INT. W/1/4 LINE
Y = 540271.7090'
X = 832763.9657'

UTILITY INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE	UTILITY EASEMENT V. 609 P. 766 DOC. 505278 BLANKET EASEMENT	22, 24
FARMERS TELEPHONE	UTILITY EASEMENT V. 397 P. 521 DOC. 395504	24

STATION OFFSET TABLE		
Point	Station	Offset
732	2249+76.38	60.62' LT
734	2247+32.01	70.02' RT
743	2251+29.00	60.60' LT
744	136+87.00 "LRW"	33.42' RT
746	136+87.00 "LRW"	32.87' LT
748	2253+94.43	80.00' LT
749	2255+50.00	80.00' LT
750	2256+00.00	60.52'LT
751	2262+00.00	60.35' LT
752	2263+50.00	85.00' LT
753	2265+00.00	85.00' LT
754	2267+50.00	60.14' LT
755	2267+74.61	60.13' LT
757	2267+56.06	59.86' RT
758	2262+50.00	59.67' RT
759	2260+50.00	90.00' RT
760	2259+00.00	86.00' RT
761	2257+50.00	59.52' RT
762	2254+74.46	59.46' RT
763	2251+91.03	117.46' RT
764	2249+00.00	70.00' RT
903	2259+50.00	90.00'RT

P.L.E STATION OFFSET TABLE		
Point	Station	Offset
906	2252+18.33	60.59' LT
907	137+32.44 "LRW"	32.42' RT

PI 2262+70.33

NE SW
19-5-2W

PI STA = 2262+70.33
Y = 539682.17
X = 833079.15
DELTA = 49°16'02"
D = 2°00'02"
T = 1313.28
L = 2462.68
R = 2864.00

NW SW
19-5-2W

SIXTEENTH LINE

TOWN OF

PI STA = 136+11.37
Y = 538929.00
X = 832379.71
DELTA = 79°19'13"
D = 47°00'41"
T = 101.04
L = 168.73
R = 121.88

FORMER RAILROAD R/W

R/L = C/L

2265+00

2260+00

2255+00

USH 61

120'

25

24

PL

I.P

SIXTEENTH LINE

LIBERTY RIDGE ROAD

60'

2252+36.98=
138+39.83"LRW"
Y=538771.80
X=832589.13

SEE DETAIL

P.L.E VISION CORNER 0.10 AC.

SW SW
19-5-2W

SE SW
19-5-2W

1' WIDE UTILITY EASEMENT DOC. 395504

2250+00

22

LIBERTY

PC 2249+57.05

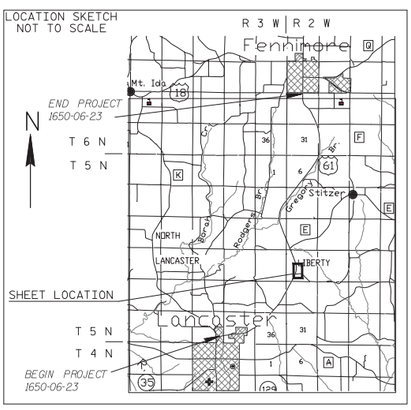
GN

SCALE, FEET
0 100 200

MATCHLINE 4.07

STA. 2248+62.70
INT. W/SEC. LINE
Y = 540271.7090'
X = 832763.9657'

LOCATION SKETCH
NOT TO SCALE



RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20519	1" IRON PIPE	538944.42	832590.17

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
LIBERTY RIDGE ROAD	R/W PROJECT 9577	1941

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-11-15
DATE

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

CORY SCHLAGEL

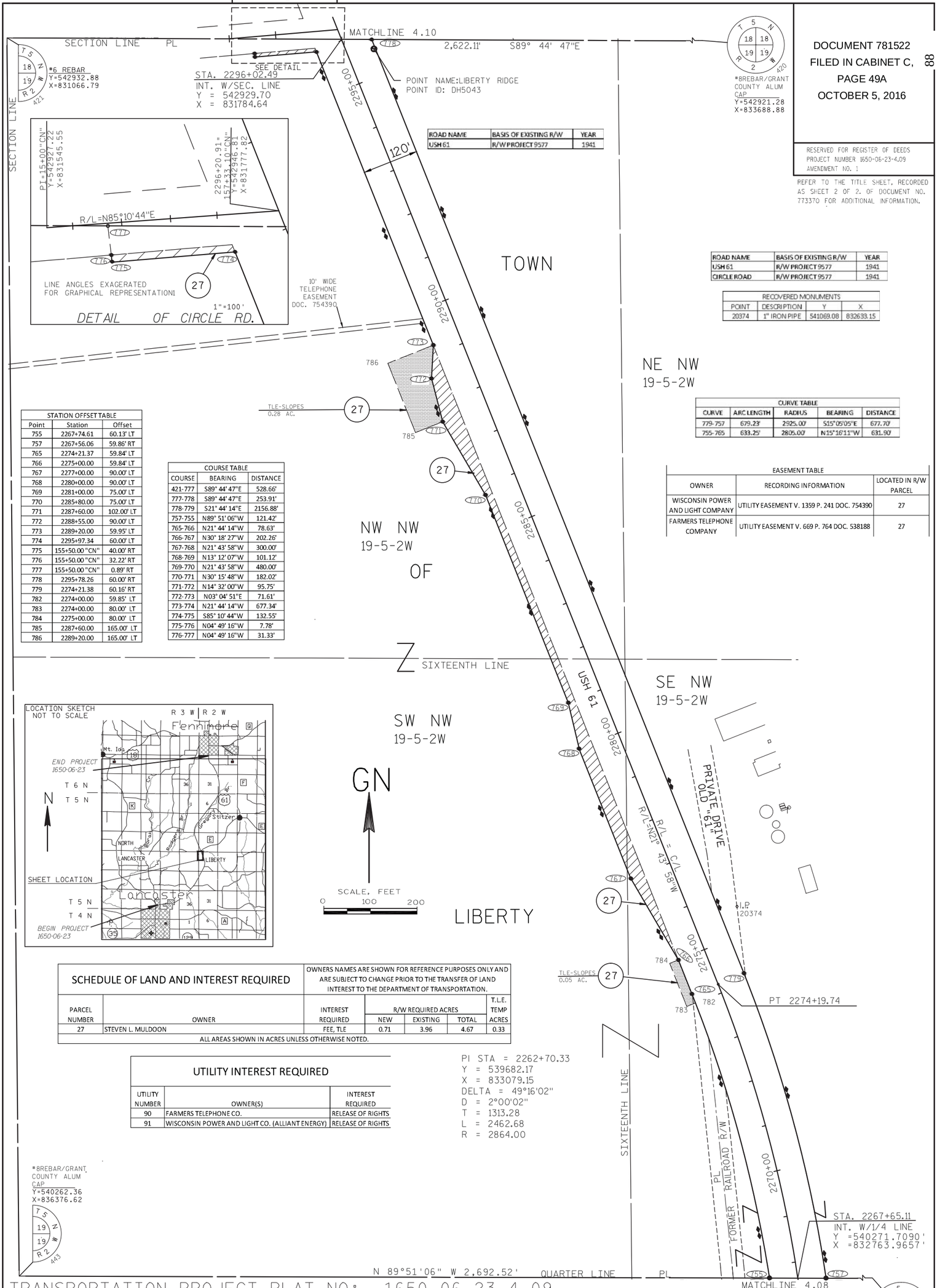
11-9-15
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.10.15.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2015 8:48 AM PLOT BY : Gromacki, Anthony PLOT NAME : PLOT SCALE.J.1.IN:200 FT
1650-06-23 4.08

DOCUMENT 781522
FILED IN CABINET C,
PAGE 49A
OCTOBER 5, 2016

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.09
AMENDMENT NO. 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.



ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
CIRCLE ROAD	R/W PROJECT 9577	1941

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20374	1" IRON PIPE	541069.08	832633.15

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
779-757	679.23'	2925.00'	S15°05'05"E	677.70'
755-765	633.25'	2805.00'	N15°16'11"W	631.90'

STATION OFFSET TABLE		
Point	Station	Offset
755	2267+74.61	60.13' LT
757	2267+56.06	59.86' RT
765	2274+21.37	59.84' LT
766	2275+00.00	59.84' LT
767	2277+00.00	90.00' LT
768	2280+00.00	90.00' LT
769	2281+00.00	75.00' LT
770	2285+80.00	75.00' LT
771	2287+60.00	102.00' LT
772	2288+55.00	90.00' LT
773	2289+20.00	59.95' LT
774	2295+97.34	60.00' LT
775	155+50.00 "CN"	40.00' RT
776	155+50.00 "CN"	32.22' RT
777	155+50.00 "CN"	0.89' RT
778	2295+78.26	60.00' RT
779	2274+21.38	60.16' RT
782	2274+00.00	59.85' LT
783	2274+00.00	80.00' LT
784	2275+00.00	80.00' LT
785	2287+60.00	165.00' LT
786	2289+20.00	165.00' LT

COURSE TABLE		
COURSE	BEARING	DISTANCE
421-777	S89° 44' 47"E	528.66'
777-778	S89° 44' 47"E	253.91'
778-779	S21° 44' 14"E	2156.88'
757-755	N89° 51' 06"W	121.42'
765-766	N21° 44' 14"W	78.63'
766-767	N30° 18' 27"W	202.26'
767-768	N21° 43' 58"W	300.00'
768-769	N13° 12' 07"W	101.12'
769-770	N21° 43' 58"W	480.00'
770-771	N30° 15' 48"W	182.02'
771-772	N14° 32' 00"W	95.75'
772-773	N03° 04' 51"E	71.61'
773-774	N21° 44' 14"W	677.34'
774-775	S85° 10' 44"W	132.55'
775-776	N04° 49' 16"W	7.78'
776-777	N04° 49' 16"W	31.33'

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 1359 P. 241 DOC. 754390	27
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT V. 669 P. 764 DOC. 538188	27

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
27	STEVEN L. MULDOON	FEE, TLE	0.71	3.96	4.67	0.33

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS
91	WISCONSIN POWER AND LIGHT CO. (ALLIANT ENERGY)	RELEASE OF RIGHTS

PI STA = 2262+70.33
Y = 539682.17
X = 833079.15
DELTA = 49°16'02"
D = 2°00'02"
T = 1313.28
L = 2462.68
R = 2864.00

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.09 AMENDMENT NO. 1

THIS AMENDENDMENT ADDS UTILITY NUMBERS 90 AND 91 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.09, RECORDED AS DOCUMENT 774533 AND FILED IN CABINET C, PAGE 49, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4, SOUTHEAST 1/4 OF THE NORTHWEST 1/4 AND NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 19, TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

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

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.09 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-22-16
DATE

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

CORY SCHLAGEL

9-23-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.09.20.USH61.SURVEY_BASE.DWG
PLOT DATE : 9/22/2016 1:12 PM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT_SCALE : 1 IN:200 FT
1650-06-23 4.09 AMENDMENT NO. 1

TRANSPORTATION PROJECT PLAT
NO:1650-06-23-4.10
AMENDMENT NO. 2

THIS AMENDENDMENT ADDS UTILITY NUMBER 91 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.10 AMENDMENT NO. 1, RECORDED AS DOCUMENT 774833 AND FILED IN CABINET C, PAGE 59, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 SECTION 13, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER AND PART OF LOT 2, CSM 965, VOL. 8, PG. 45, DOC. 654204 AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, SECTION 18 TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, ALL IN GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

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

DOCUMENT 781523
FILED IN CABINET C, PAGE 50A
OCTOBER 5, 2016

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.10
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20523	1" IRON PIPE	545035.72	831009.57

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 965	2003
CTH E	S 0212 (4)	1965
CIRCLE ROAD	R/W PROJECT 9577	1941

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
29	RANDY S. ORTH AND LAURA S. ORTH	FEE, TLE	0.64	4.74	5.38	0.20
30	TORY A. HENKEL AND LISA A. HENKEL	FEE	0.23	3.34	3.57	---
31	LAWRENCE R. SCHMITZ AND LINDA S. SCHMITZ	FEE	0.28	1.30	1.58	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

UTILITY INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS
91	WISCONSIN POWER AND LIGHT CO. (ALLIANT ENERGY)	RELEASE OF RIGHTS

STATION OFFSET TABLE		
Point	Station	Offset
777	155+50.00 "CN"	0.89' RT
778	2295+78.26	60.00' RT
791	155+50.00 "CN"	33.78' LT
792	155+50.00 "CN"	45.00' LT
793	2296+89.22	70.00' LT
794	2306+00.00	90.00' LT
795	2311+50.00	90.00' LT
796	2313+00.00	80.13' LT
798	2324+00.00	69.79' RT
799	2322+00.00	130.00' RT
800	2320+00.00	69.82' RT
801	2318+45.80	69.83' RT
802	2307+00.00	59.92' RT
803	2306+00.00	80.00' RT
804	2303+00.00	80.00' RT
805	2302+00.00	59.96' RT
806	2299+54.79	59.97' RT
807	167+00.00 "E"	48.04' LT
808	167+00.00 "E"	0.00'
821	2317+00.00	80.16' LT
823	2317+00.00	95.00' LT
824	2323+00.00	95.00' LT
825	2323+00.00	80.20' LT
830	2324+94.14	80.22' LT
841	2324+34.35	69.79' RT
862	2303+83.00	70.00' LT

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT V. 1186 P. 519 DOC. 712327	29
WISCONSIN POWER AND LIGHT COMPANY	TEMPORARY EASEMENT V. 1359 P. 238 DOC. 754389	29
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 1 P. 80 DOC. 92656 INSIDE C.T.H. E R/W	29, 30
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 441 P. 226 DOC. 414922 BLANKET EASEMENT	29, 30
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT V. 669 P. 765 DOC. 538189 BLANKET EASEMENT	29, 30
WISCONSIN TELEPHONE COMPANY	UTILITY EASEMENT V. 252 P. 15 DOC. 131960 BLANKET EASEMENT	31

COURSE TABLE		
COURSE	BEARING	DISTANCE
421-777	S89° 44' 47"E	528.66'
777-791	N04° 49' 16"W	34.67'
791-792	N04° 49' 16"W	11.22'
792-793	N85° 10' 44"E	96.25'
793-862	N21° 43' 58"W	693.78'
862-794	N26°59'55"W	217.92'
794-795	N21° 43' 58"W	550.00'
795-796	N17° 58' 01"W	150.32'
796-830	N21° 44' 14"W	1194.14'
830-841	N90° 00' 00"E	161.48'
841-798	S21° 44' 14"E	34.35'
798-799	S38° 29' 13"E	208.87'
799-800	S04° 59' 12"E	208.86'
800-801	S21° 44' 14"E	154.20'
801-20523	S68° 15' 46"W	10.00'
20523-802	S21° 44' 14"E	1145.80'
802-803	S33° 05' 16"E	102.00'
803-804	S21° 43' 58"E	300.00'
804-805	S10° 23' 54"E	101.99'
805-806	S21° 44' 14"E	245.21'
806-807	N78° 01' 26"E	124.37'
807-808	S39° 45' 01"E	48.04'
808-778	S02° 11' 16"W	338.87'
778-777	N89° 44' 47"W	253.91'

N 90°00'00" E MATCHLINE 4.11

QUARTER LINE

SEE DETAIL

ALUM MON
Y=545603.94
X=831074.70

ALUM MON
Y=545586.12
X=831074.85

MAP OF SURVEY BOOK 7 PAGE 6 DATED 10-12-99

STA. 2324+62.17
INT. W/1/4 LINE
Y = 530014.79'
X = 822304.31'

150'

2,655.89'

NW SW
18-5-2W

TOWN OF NORTH LANCASTER

TOWN OF LIBERTY

TLE FOR SLOPES 0.20 AC.

CALCULATED

80'

70'

2320+00

20523

LP

PL

29

823

821

STA. 2315+26.90
INT. W/SEC. LINE

2315+00

NE SE
13-5-3W

140'

USH 61

60'

80'

CSM 965
V. 8
P. 45
DOC.
654204
LOT 2

SIXTEENTH LINE

2310+00

R/L=N21°43'58"W

SW SW
18-5-2W

2305+00

120'

30

PI STA = 166+78.46
Y = 543247.58
X = 831849.47
DELTA = 21°26'49"
D = 12°33'54"
T = 86.36
L = 170.69
R = 456.00

PI=169+68.35"E"
Y=543165.28
X=832046.16

C.T.H.E
(RIGHT OF WAY)
(WIDTH VARIES)

R/L=N42°21'37"E

PT=167+62.79

808

PI 166+78.46

N63°48'26"E

PC=165+92.10

2300+00

SE SE
13-5-3W

N00° 10' 26"E

2,671.07'

SECTION LINE

16.5' WIDE TELEPHONE EASEMENT DOC. 712327

GN

SCALE, FEET
0 100 200

2298+59.89=
165+00"E"
Y=543168.81
X=831689.33

90

30'X30" WIDE TEMPORARY EASEMENT VOL.1359, PG.238 DOC. 754389

STA. 2296+02.49
INT. W/SEC. LINE
Y = 542929.70
X = 831784.64

778

S 89°44'47" E 2,622.11'
MATCHLINE 4.09

SEE DETAIL

MAP OF SURVEY BOOK 4, P. 19 DATED 10-6-1998

PI=15+00"CN"
Y=542927.22
X=831545.55

2296+20.91=
157+33.10"CN"
Y=542946.81
X=831777.82

R/L=N85°10'44"E

66'

CIRCLE RD

LINE ANGLES EXAGERATED FOR GRAPHICAL REPRESENTATION

1"=100'

DETAIL OF CIRCLE RD.

LOCATION SKETCH
NOT TO SCALE

R 3 W | R 2 W

Fennimore

Mt. Ida

END PROJECT 1650-06-23

T 6 N
T 5 N

Stitzer

NORTH LANCASTER

LIBERTY

Lancaster

SHEET LOCATION

T 5 N
T 4 N

BEGIN PROJECT 1650-06-23

DETAIL
1"=100'

SECTION LINE

2.64'

ALUM MON
Y=542930.24
X=831066.79

ALUM MON
Y=542932.88
X=831066.79

SEE DETAIL

PL SECTION LINE

CIRCLE RD

*BREBAR/GRANT COUNTY ALUM CAP
Y=542921.28
X=833688.88

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN GRANT COUNTY AS SHEET 2 OF 2 DOCUMENT NUMBER 773370 AND FILED IN CABINET C, PAGE 42

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.10 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-22-16
DATE

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

CORY SCHLAGEL

9-23-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.09.20.USH61.SURVEY.BASE.DWG
PLOT DATE : 9/22/2016 1:24 PM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT SCALE 1:1 IN 200 FT
1650-06-23 4.10 AMENDMENT NO. 2

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.11 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLAGEL

11/9/16
DATE

DOCUMENT #782568

FILED IN CABINET C, ON PAGE 60A

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

90

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.11
AMENDMENT NO. 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT V. 669 P. 765 DOC. 538188 BLANKET EASEMENT	29, 31 AND 32
FARMERS TELEPHONE COMPANY	UTILITY EASEMENT V. 1186 P. 519 DOC. 712327 BLANKET EASEMENT	29
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 1359 P. 238 DOC. 754389 BLANKET EASEMENT	29
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 1 P. 80 DOC. 92656 INSIDE C.T.H. E R/W	29 AND 31
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 441 P. 226 DOC. 414922 BLANKET EASEMENT	29, 31 AND 32
WISCONSIN TELEPHONE COMPANY	UTILITY EASEMENT V. 252 P. 15 DOC. 131960 BLANKET EASEMENT	31

*10REBAR
Y=548226.42
X=828401.14

STA. 2352+57.97
INT. W/SEC. LINE
Y = 548222.4874'
X = 829836.3467'

MATCHLINE 4.12

ROGERS RD

SECTION LINE 2,651.66' N89° 57' 11"W

*BREBAR/GRANT COUNTY ALUM CAP
Y=548224.24
X=831052.80

POINT NAME:1S11
POINT ID: DH8315

TOWN

TLE-SLOPES
0.21 AC.

2350+00

2345+00

NE NE
13-5-3W

PI STA = 2361+99.09
Y = 549057.43
X = 829342.06
DELTA = 58°48'09"
D = 1°38'13"
T = 1972.25
L = 3592.05
R = 3500.00
PC STA = 2342+26.84
PT STA = 2378+18.89

60'
100'
160'

GREGORY LANE

USH 61

PC 2342+26.84

2340+00

MAP OF SURVEY BOOK 7 PAGE 6 DATED 10-12-99

SIXTEENTH LINE

R/L-C/L

180'
100'
80'

2335+00

PL

NOO° 28' 44"W 2,638.21'

NORTH

2330+00

150'
80'
70'

R/L-N21°43'58"W

Y = 545586.1209'
X = 830725.7638'
STA. 2324+62.17
INT. W/1/4 LINE

ALUM MON
2323+32.91
324.27' RT
Y=545586.12
X=831074.85

QUARTER LINE

MATCHLINE 4.10 N 90°00'00" W

SE NE
13-5-3W

LANCASTER

OF

GN

SCALE, FEET
0 100 200

SCHEDULE OF LAND AND INTEREST REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
29	RANDY S. ORTH AND LAURA S. ORTH	FEE,TLE	0.84	4.78	5.62	0.21
31	LAWRENCE R. SCHMITZ AND LINDA S. SCHMITZ	FEE	0.12	1.32	1.44	---
32	VENDOR: DENNIS J. CARR AND MARILYN J. CARR, TRUSTEE OF THE CARR REVOCABLE TRUST VENDEE: JOSEPH W. QUINCY AND VICKI L. QUINCY	FEE	0.05	2.74	2.79	---
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						

COURSE TABLE		
COURSE	BEARING	DISTANCE
412-811	N89° 57' 11"W	1155.75'
811-812	S05° 29' 17"E	70.64'
812-813	S22° 39' 22"E	686.24'
813-835	S72° 29' 34"W	90.00'
836-837	S21° 44' 14"E	821.78'
837-838	S33° 21' 18"E	51.05'
838-839	S21° 43' 58"E	200.00'
839-840	S17° 06' 33"W	64.19'
840-841	S21° 44' 14"E	665.65'
841-830	N90° 00' 00"W	161.48'
830-831	N21° 44' 14"W	305.86'
831-832	N24° 34' 33"W	700.86'
832-833	N21° 43' 58"W	500.00'
833-834	N13° 05' 52"W	388.57'
845-844	N75° 09' 19"W	126.97'
844-809	N00° 16' 45"E	35.33'
809-811	S89° 57' 11"E	236.73'

STATION OFFSET TABLE		
Point	Station	Offset
809	2352+72.09	172.87' LT
811	2352+52.67	60.71' RT
812	2351+80.78	60.66' RT
813	2344+80.52	189.98' RT
830	2324+94.14	80.22' LT
831	2328+00.00	80.24' LT
832	2335+00.00	115.00' LT
833	2340+00.00	115.00' LT
834	2343+81.56	60.14' LT
835	2344+80.64	99.98' RT
836	2342+21.78	99.65' RT
837	2334+00.00	99.72' RT
838	2333+50.00	110.00' RT
839	2331+50.00	110.00' RT
840	2331+00.00	69.74' RT
841	2324+34.35	69.79' RT
842	2343+00.00	70.00' LT
843	2352+00.00	70.00' LT
844	2352+38.31	173.39' LT
845	2351+96.05	59.33' LT

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
835-836	251.62'	3408.20'	S19° 37' 20"E	251.56'
834-845	828.38'	3568.20'	N12° 28' 40"W	826.52'

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 965	2003
GREGORY ROAD	PLAT OF SURVEY BOOK7 PAGE 6	1999
ROGERS RD	R/W PROJECT 9577	1941

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
90	FARMERS TELEPHONE CO.	RELEASE OF RIGHTS
91	WISCONSIN POWER AND LIGHT	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

LOCATION SKETCH
NOT TO SCALE

R 3 W | R 2 W
Fennimore
Mt. Ida
END PROJECT 1650-06-23
T 6 N
T 5 N
Grand Stitzer
NORTH
LANCASTER
LIBERTY
SHEET LOCATION
Lancaster
T 5 N
T 4 N
BEGIN PROJECT 1650-06-23

TRANSPORTATION PROJECT PLAT NO:1650-06-23-4.11 AMENDMENT NO. 1

THIS AMENDMENT ADDS UTILITY NUMBER 96 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.11 RECORDED AS DOCUMENT 774834 AND FILED IN CABINET C, PAGE 60, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4, SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 13, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

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

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2016 7:32 AM PLOT BY : Anthony Gromacki PLOT NAME : PLOT SCALE 1.1.IN:200 FT
1650-06-23 4.11 AMENDMENT NO. 1

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.12 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.12 AMENDMENT NO. 1 RECORDED AS DOCUMENT 781524 AND FILED IN CABINET C, PAGE 61A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 12, TOWNSHIP 5 NORTH, RANGE 3 WEST, TOWN OF NORTH LANCASTER, GRANT COUNTY, WISCONSIN.

DOCUMENT #782569

FILED IN CABINET C, ON PAGE 61B

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

91

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.12
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
33	TOMLIN FARMS, A WISCONSIN PARTNERSHIP, THOMAS C. PARRISH AND LINDA S. PARRISH	FEE	0.18	3.81	3.99

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
ROGERS ROAD	R/W PROJECT 9577	1941

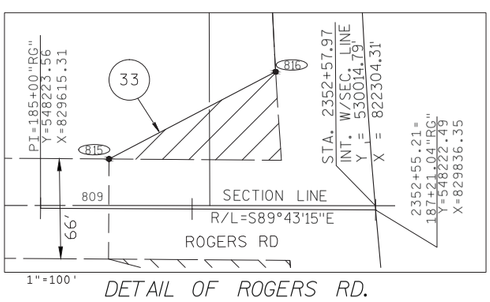
*8REBAR/GRANT COUNTY ALUM CAP
Y=550881.57
X=831046.76

T 5 N R 3 W 12 418

COURSE TABLE		
COURSE	BEARING	DISTANCE
412-811	N89° 57' 11"W	1155.75'
811-810	N89° 57' 11"W	236.73'
809-815	N00° 16' 47"E	30.67'
815-816	N62° 22' 47"E	124.08'
817-818	N04° 10' 57"E	153.69'
818-819	N13° 30' 20"E	234.92'
820-822	N89° 58' 42"E	141.25'

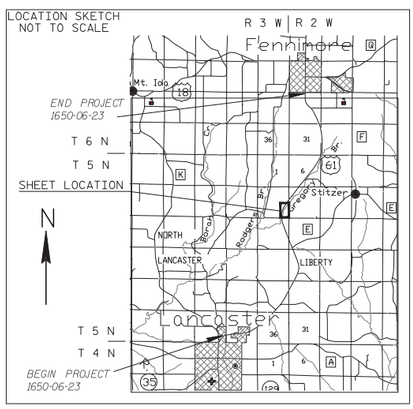
STATION OFFSET TABLE		
Point	Station	Offset
809	185+45.00 "RG"	0.00'
811	2352+52.67	60.71' RT
815	185+45.00 "RG"	32.70' LT
816	2353+50.00	59.23' LT
817	2361+00.00	58.99' LT
818	2362+50.00	75.00' LT
819	2364+80.06	74.03' LT
820	2365+78.74	74.06' LT
822	2317+00.00	80.16' LT

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
816-817	762.66'	3568.20'	N02° 48' 36"E	761.21'
819-820	100.77'	3583.20'	N15° 56' 39"E	100.76'
822-811	1343.79'	3448.20'	S06° 15' 48"W	1335.30'



1"=100'

DETAIL OF ROGERS RD.



STA. 2366+01.11
INT. W/1/16TH LINE
Y = 549552.4948'
X = 829978.9099'

SIXTEENTH LINE

SIXTEENTH LINE

TOWN

SW SE
12-5-3W

OF

SE SE
12-5-3W

NORTH

LANCASTER

PI 2361+99.09

R/L = C/L

2365+00

2360+00

2355+00

135'

120'

820 819 818 817 816 815 811 822

33

SEE DETAIL

*10REBAR
Y=548226.42
X=828401.14

T 5 N R 3 W 5 12 13 3 353

MATCHLINE 4.11

SECTION LINE 2,651.66' N89° 57' 11"W

SECTION LINE

N00° 07' 49"W

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
WISCONSIN TELEPHONE COMPANY	UTILITY EASEMENT V. 252 P. 132 DOC. 133660 INSIDE R/W	33

PI STA = 2361+99.09
Y = 549057.43
X = 829342.06
DELTA = 58°48'09"
D = 1°38'13"
T = 1972.25
L = 3592.05
R = 3500.00
PC STA = 2342+26.84
PT STA = 2378+18.89

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

GN

SCALE, FEET
0 100 200

*8REBAR/GRANT COUNTY ALUM CAP
Y=548224.24
X=831052.80

T 5 N R 3 W 12 13 412

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.12 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLAGEL

11-9-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2016 7:29 AM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT SCALE 1:1 IN 200 FT
1650-06-23 4.12 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.13 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.13 AMENDMENT NO. 1 RECORDED AS DOCUMENT 776629 AND FILED IN CABINET C, PAGE 64B, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF LOT 2, CSM 1462, DOC#713761, PG. 154, AND LOT 1, CSM 825, DOC#634737, PG. 240, AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 6, AND PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 7, ALL IN TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

DOCUMENT #782570

FILED IN CABINET C, ON PAGE 64C

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

92

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.13
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DETAIL OF PINE GROVE RD.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 825	2007
USH 61	CSM 1462	2009
PINE GROVE ROAD	R/W PROJECT 9577	1941

RECOVERED MONUMENTS			
POINT	DESCRIPTION	Y	X
20561	3/4" REBAR	553832.15	832875.43

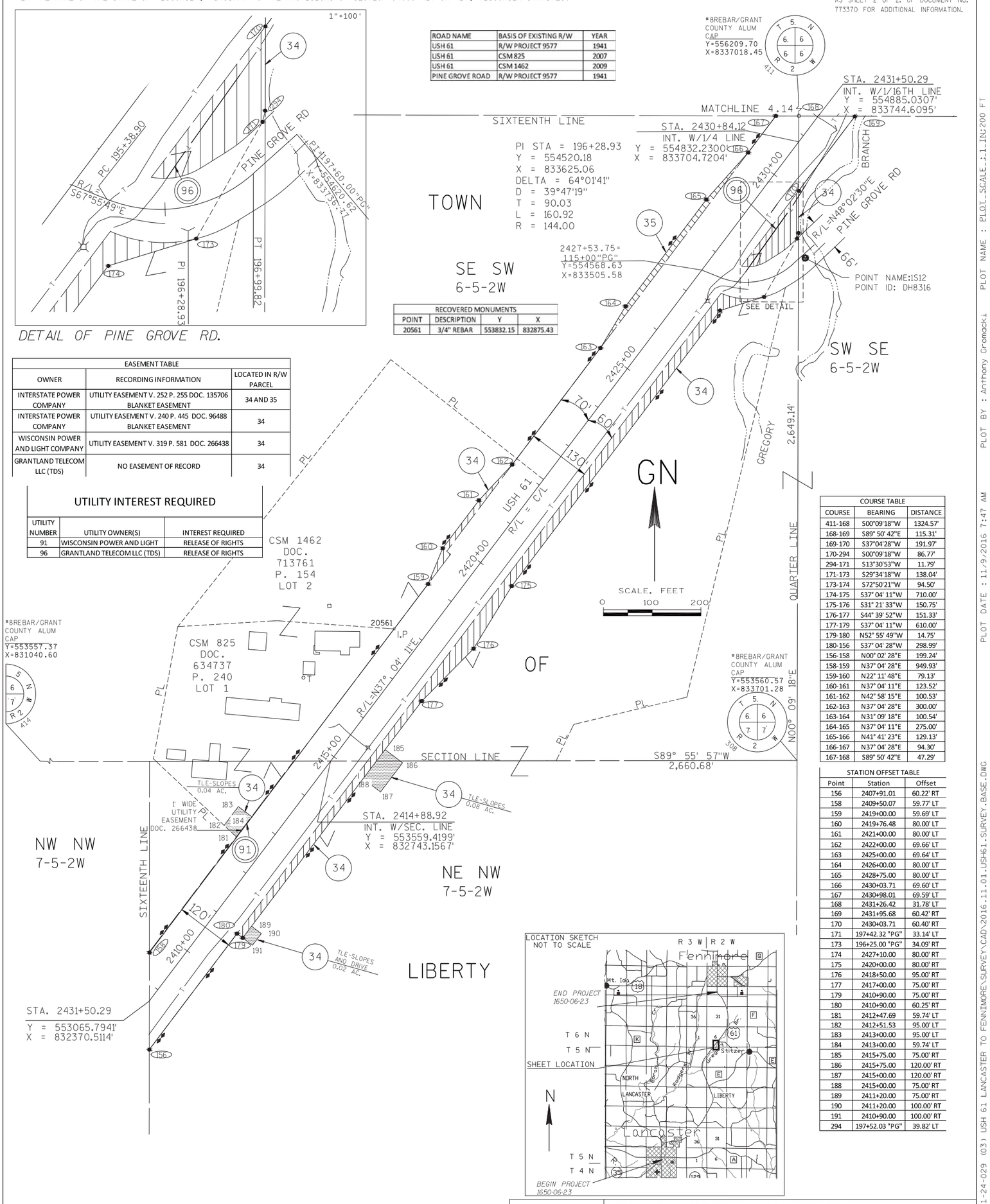
EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 252 P. 255 DOC. 135706 BLANKET EASEMENT	34 AND 35
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 240 P. 445 DOC. 96488 BLANKET EASEMENT	34
WISCONSIN POWER AND LIGHT COMPANY	UTILITY EASEMENT V. 319 P. 581 DOC. 266438	34
GRANTLAND TELECOM LLC (TDS)	NO EASEMENT OF RECORD	34

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
91	WISCONSIN POWER AND LIGHT	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

COURSE TABLE		
COURSE	BEARING	DISTANCE
411-168	S00°09'18"W	1324.57'
168-169	S89° 50' 42"E	115.31'
169-170	S37°04'28"W	191.97'
170-294	S00°09'18"W	86.77'
294-171	S13°30'53"W	11.79'
171-173	S29°34'18"W	138.04'
173-174	S72°50'21"W	94.50'
174-175	S37° 04' 11"W	710.00'
175-176	S31° 21' 33"W	150.75'
176-177	S44° 39' 52"W	151.33'
177-179	S37° 04' 11"W	610.00'
179-180	N52° 55' 49"W	14.75'
180-156	S37° 04' 28"W	298.99'
156-158	N00° 02' 28"E	199.24'
158-159	N37° 04' 28"E	949.93'
159-160	N22° 11' 48"E	79.13'
160-161	N37° 04' 11"E	123.52'
161-162	N42° 58' 15"E	100.53'
162-163	N37° 04' 28"E	300.00'
163-164	N31° 09' 18"E	100.54'
164-165	N37° 04' 11"E	275.00'
165-166	N41° 41' 23"E	129.13'
166-167	N37° 04' 28"E	94.30'
167-168	S89° 50' 42"E	47.29'

STATION OFFSET TABLE		
Point	Station	Offset
156	2407+91.01	60.22' RT
158	2409+50.07	59.77' LT
159	2419+00.00	59.69' LT
160	2419+76.48	80.00' LT
161	2421+00.00	80.00' LT
162	2422+00.00	69.66' LT
163	2425+00.00	69.64' LT
164	2426+00.00	80.00' LT
165	2428+75.00	80.00' LT
166	2430+03.71	69.60' LT
167	2430+98.01	69.59' LT
168	2431+26.42	31.78' LT
169	2431+95.68	60.42' RT
170	2430+03.71	60.40' RT
171	197+42.32 "PG"	33.14' LT
173	196+25.00 "PG"	34.09' RT
174	2427+10.00	80.00' RT
175	2420+00.00	80.00' RT
176	2418+50.00	95.00' RT
177	2417+00.00	75.00' RT
179	2410+90.00	75.00' RT
180	2410+90.00	60.25' RT
181	2412+47.69	59.74' LT
182	2412+51.53	95.00' LT
183	2413+00.00	95.00' LT
184	2413+00.00	59.74' LT
185	2415+75.00	75.00' RT
186	2415+75.00	120.00' RT
187	2415+00.00	120.00' RT
188	2415+00.00	75.00' RT
189	2411+20.00	75.00' RT
190	2411+20.00	100.00' RT
191	2410+90.00	100.00' RT
294	197+52.03 "PG"	39.82' LT

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
34	WILLIAM R. LANE TESTAMENTARY TRUST	FEE, TLE	0.95	4.61	5.56	0.14
35	SCANLAN BROTHERS LLC	FEE	0.09	2.09	2.18	---
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						



M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.13 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLAGEL

11-9-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG PLOT DATE : 11/9/2016 7:47 AM PLOT BY : Anthony Gromacki PLOT NAME : PLOT SCALE 1.1.IN:200 FT 1650-06-23 4.13 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.14 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.14 AMENDMENT NO. 1 RECORDED AS DOCUMENT 781525 AND FILED IN CABINET C, PAGE 52A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 ALL IN SECTION 6, TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

DOCUMENT #782571

FILED IN CABINET C, ON PAGE 52B

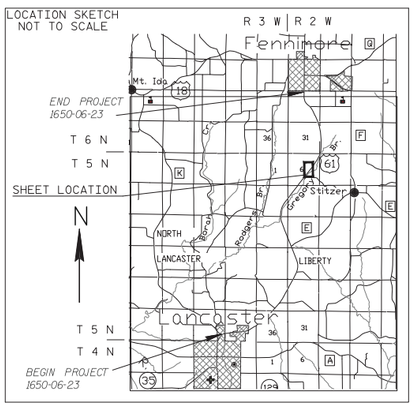
IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

93

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.14 AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

LOCATION SKETCH
NOT TO SCALE



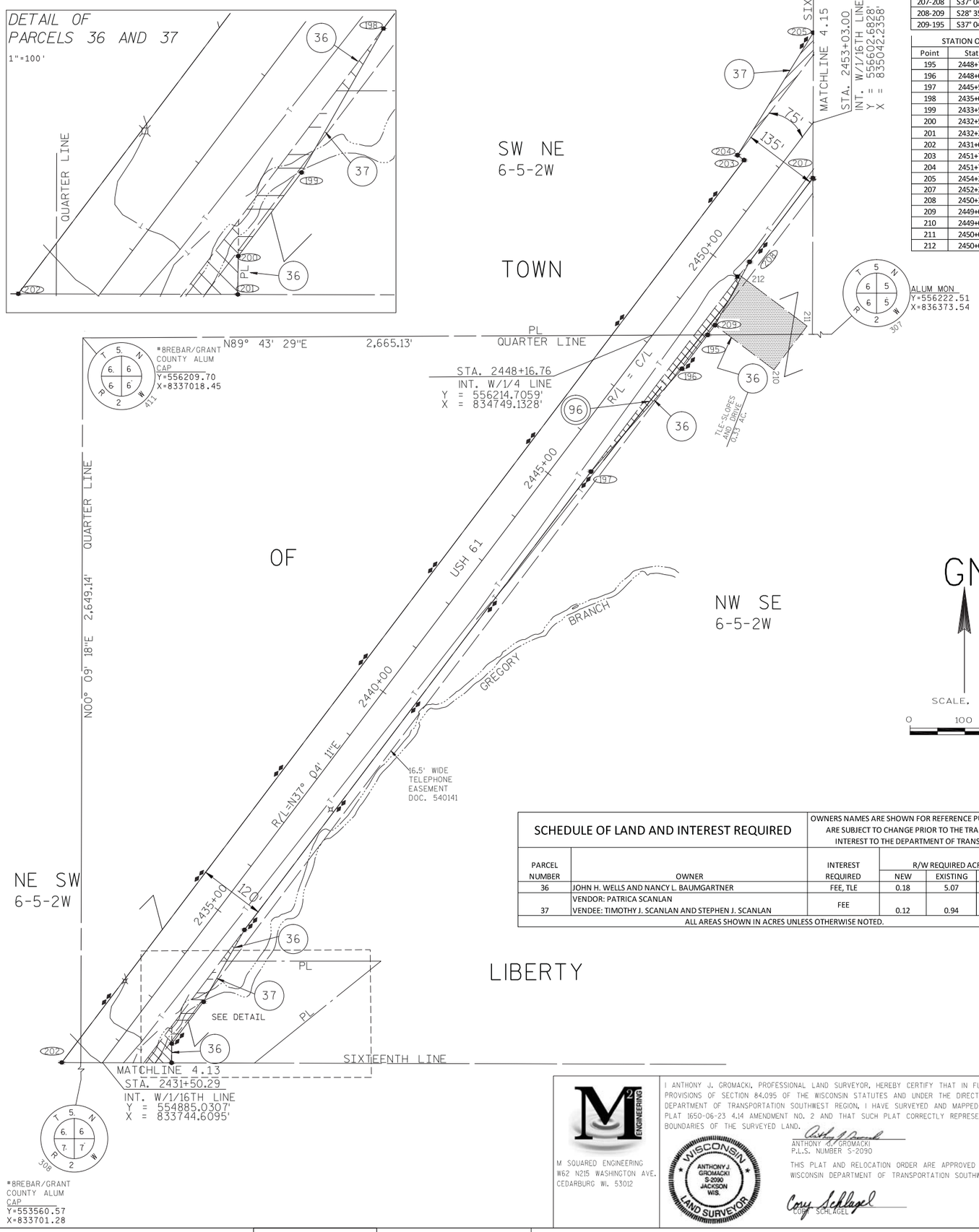
EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
GRANTLAND TELECOM, INC.	UTILITY EASEMENT V. 673 P. 239 DOC. 540141	36
NORTHERN NATURAL GAS	UTILITY EASEMENT V. 675 P. 51 DOC. 541137 BLANKET EASEMENT	36 AND 37

UTILITY INTEREST REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
92	NORTHERN NATURAL GAS	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

COURSE TABLE		
COURSE	BEARING	DISTANCE
411-195	N89° 43' 29"E	1141.33'
195-196	S37° 04' 11"W	77.80'
196-197	S41° 31' 25"W	250.76'
197-198	S37° 04' 28"W	1050.00'
198-199	S29° 38' 28"W	151.27'
199-200	S37° 04' 11"W	95.92'
200-201	S00° 38' 47"W	34.93'
201-202	N89° 50' 42"W	200.53'
202-203	N37° 04' 28"E	2067.13'
203-204	N52° 55' 33"W	15.00'
204-205	N31° 43' 59"E	263.29'
205-207	S00° 11' 02"W	265.72'
207-208	S37° 04' 28"W	191.86'
208-209	S28° 35' 40"W	131.85'
209-195	S37° 04' 12"W	22.20'

STATION OFFSET TABLE		
Point	Station	Offset
195	2448+77.80	80.00' RT
196	2448+00.00	80.00' RT
197	2445+50.00	60.53' RT
198	2435+00.00	60.44' RT
199	2433+50.00	80.00' RT
200	2432+54.08	80.00' RT
201	2432+25.97	100.74' RT
202	2431+05.53	59.59' LT
203	2451+72.65	59.42' LT
204	2451+72.65	74.42' LT
205	2454+34.81	98.91' LT
207	2452+22.27	60.58' RT
208	2450+30.41	60.57' RT
209	2449+00.00	80.00' RT
210	2449+00.00	215.00' RT
211	2450+00.00	215.00' RT
212	2450+00.00	65.10' RT

DETAIL OF PARCELS 36 AND 37
1"=100'



SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	T.L.E. TEMP ACRES
36	JOHN H. WELLS AND NANCY L. BAUMGARTNER	FEE, TLE	0.18	5.07	5.25	0.33
37	VENDOR: PATRICA SCANLAN VENDEE: TIMOTHY J. SCANLAN AND STEPHEN J. SCANLAN	FEE	0.12	0.94	1.06	---
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.						

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.14 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLAGEL

11/9/16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2016 7:41 AM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT SCALE 1.1 IN:200 FT
1650-06-23 4.14 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.15 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.15 AMENDMENT NO. 1 RECORDED AS DOCUMENT 781526 AND FILED IN CABINET C, PAGE 53A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE FRACTIONAL NORTHEAST 1/4 OF THE NORTHEAST 1/4, AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 6, TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DOCUMENT #782572

FILED IN CABINET C ON PAGE 53B

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

94

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.15
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

N89° 50' 48"E 2,643.06' SECTION LINE

*BREBAR/GRANT COUNTY ALUM CAP
Y=558967.45
X=833715.91

1" IPF
Y=558960.38
X=836358.96

STA. 2479+16.27
INT. W/SEC. LINE
Y = 558839.81'
X = 836359.60'

MATCHLINE 4.16

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
36	JOHN H. WELLS AND NANCY L. BAUMGARTNER	FEE, TLE	0.90	1.91	2.81	0.01
38	JEFFERY R. EVERITT AND LINDA EVERITT	FEE, TLE	0.18	3.50	3.68	0.02
37	VENDOR: PATRICA SCANLAN VENDEE: TIMOTHY J. SCANLAN AND STEPHEN J. SCANLAN	FEE	0.23	2.05	2.28	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

CURVE TABLE				
CURVE	ARC LENTGH	RADIUS	BEARING	DISTANCE
293-292	242.62'	5153.30'	S20°42'23"W	242.60'
230-231	500.22'	5018.30'	N34° 13' 08"E	500.02'
232-233	1336.37'	5033.30'	N23° 45' 25"E	1332.45'

COURSE TABLE		
COURSE	BEARING	DISTANCE
303-293	S00° 18' 19"E	307.97'
292-291	S19°54'47"W	101.34'
291-216	S25°27'08"W	405.00'
216-217	S24° 41' 49"W	305.54'
217-219	S31° 38' 14"W	101.76'
219-220	S43° 54' 04"W	103.52'
220-221	S34°26'55"W	202.73'
221-222	S17° 57' 03"W	142.77'
222-223	S37° 04' 11"W	116.92'
223-224	S44° 39' 52"W	151.33'
224-225	S37° 04' 11"W	500.00'
225-226	S46° 08' 04"W	186.72'
226-205	N00° 11' 02"E	274.05'
205-227	N31° 43' 59"E	65.48'
227-228	N37° 04' 11"E	200.00'
228-229	N54° 05' 58"E	104.59'
229-230	N37° 04' 28"E	364.95'
231-232	S58° 38' 12"E	15.00'
233-303	S89° 50' 48"E	25.68'

STATION OFFSET TABLE		
Point	Station	Offset
205	2454+34.81	98.91' LT
216	2470+00.00	65.00' RT
217	2467+00.00	90.00' RT
219	2466+00.00	90.00' RT
220	2465+00.00	70.00' RT
221	2463+00.00	70.00' RT
222	2461+66.92	115.00' RT
223	2460+50.00	115.00' RT
224	2459+00.00	95.00' RT
225	2454+00.00	95.00' RT
226	2452+15.61	65.58' RT
227	2455+00.00	105.00' LT
228	2457+00.00	105.00' LT
229	2458+00.00	74.37' LT
230	2461+64.95	74.34' LT
231	2466+72.56	74.51' LT
232	2466+72.57	59.51' LT
233	2480+24.80	60.05' LT
234	2469+00.00	71.32' RT
235	2469+00.00	95.00' RT
236	2468+65.00	95.00' RT
237	2468+65.00	74.00' RT
238	2461+20.00	115.00' RT
239	2461+20.00	130.00' RT
240	2460+90.00	130.00' RT
241	2460+90.00	115.00' RT
291	2474+00.00	65.00' RT
292	2475+00.00	60.18' RT
293	2477+39.79	60.08' RT
303	2480+31.94	35.36' LT

TOWN
FRACTIONAL
NE NE
6-5-2W

PI STA = 2479+52.08
Y = 558716.39
X = 836639.06
DELTA = 38°37'06"
D = 1°07'28"
T = 1785.16
L = 3434.12
R = 5095.00

SIXTEENTH LINE

R/L = C/L 2475+00

BRANCH

120'

USH 61

2470+00

GREGORY

10' WIDE ELECTRIC EASEMENT DOC. 135071

16.5' WIDE TELEPHONE EASEMENT DOC. 540140

SECTION LINE

TLE-SLOPES AND DRIVE 0.02 AC.

MAP OF SURVEY W1 DATED 8-30-95

OF

SIXTEENTH LINE

2465+00

135'

60'

16.5' WIDE TELEPHONE EASEMENT DOC. 540141

PC = 2461+66.92

2460+00

LIBERTY

TLE-SLOPES AND DRIVE 0.01 AC.

2,737.90'

S00° 18' 19"E

140'

8348.03

R/L-N37° 04' 11"E 2455+00

75'

65'

MATCHLINE 4.14

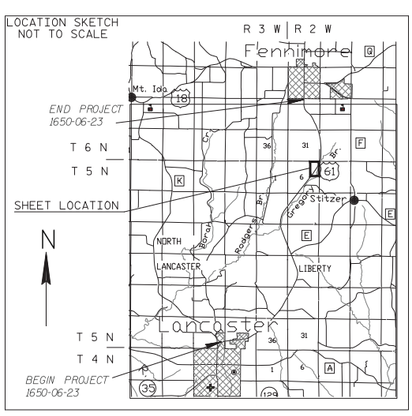
SE NE
6-5-2W

STA. 2453+03.00
INT. W/1/16TH LINE
Y = 556602.68'
X = 835042.24'

QUARTER LINE

ALUM MON
Y=556222.51
X=836373.54

LOCATION SKETCH
NOT TO SCALE



GN

SCALE, FEET
0 100 200

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
NORTHERN NATURAL GAS	UTILITY EASEMENT V. 675 P. 51 DOC. 541137 BLANKET EASEMENT	36, 37
RIGHTS OF OTHERS	ACCESS EASEMNET TO DRAINFIELD V. 750 P. 949 DOC. 577173 NOT IN PROJECT LIMITS	38
RIGHTS OF OTHERS	ACCESS EASEMNET TO DRAINFIELD V. 1364 P. 482 DOC. 755623 NOT IN PROJECT LIMITS	38
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 252 P. 226 DOC. 135071 BLANKET EASEMENT	38
GRANTLAND TELECOM, INC.	UTILITY EASEMENT V. 673 P. 238 DOC. 5400140	38

UTILITY INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
91	WISCONSIN POWER AND LIGHT	RELEASE OF RIGHTS
92	NORTHERN NATURAL GAS	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.15 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090
11-02-16
DATE

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

CORY SCHLAGEL
11-9-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2016 7:50 AM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT_SCALE_1_1_IN200 FT
1650-06-23 4.15 AMENDMENT NO. 2

DOCUMENT #782573

FILED IN CABINET C ON PAGE 54B

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

95

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.16
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

1650-06-23 4.16 AMENDMENT NO. 2

PLOT NAME : PLOT_SCALE.1:1.IN:200 FT

PLOT BY : Anthony Gromacki

PLOT DATE : 11/9/2016 7:53 AM

F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG

MATCHLINE 4.17

QUARTER LINE PL 2,657.72' N89° 50' 45"E

*7REBAR/GRANT COUNTY ALUM CAP
Y=561609.85
X=836248.71

*8REBAR/GRANT COUNTY ALUM CAP
Y=550907.31
X=831046.70

STA. 2507+10.97
INT. W/1/4 LINE
Y = 561610.42'
X = 836560.82'

STATION OFFSET TABLE		
Point	Station	Offset
215	2477+26.25	65.00' RT
233	2480+24.80	60.05' LT
242	2488+72.77	60.45' LT
243	2488+72.75	100.45' LT
244	2495+96.25	100.82' LT
245	2495+96.27	60.82' LT
246	2507+12.44	60.38' LT
248	2507+09.40	64.62' RT
249	2495+96.34	64.18' RT
250	2495+96.36	109.18' RT
251	2487+72.86	109.60' RT
252	2487+72.84	65.00' RT
253	2481+40.00	65.00' RT
254	2481+17.11	148.50' RT
255	2480+78.41	128.65' RT
256	2480+39.41	109.11' RT
257	2480+00.00	65.00' RT
303	2480+31.94	35.36' LT
863	2485+00.00	65.00' RT

COURSE TABLE		
COURSE	BEARING	DISTANCE
303-233	N89° 50' 48"W	25.68'
242-243	N83° 23' 16"W	40.00'
244-245	N88° 28' 28"E	40.00'
245-246	N01° 31' 32"W	1116.11'
246-248	N89° 50' 45"E	125.04'
248-249	S01° 31' 32"E	1113.12'
249-250	N88° 28' 28"E	45.00'
251-252	N82° 15' 47"W	44.60'
252-863	S09° 17' 56"W	276.28'
863-253	S12° 51' 26"W	364.52'
253-254	S59° 21' 02"E	86.71'
254-256	S41° 53' 18"W	88.86'
256-257	S63° 58' 11"W	59.60'
257-215	S17° 59' 42"W	277.21'
215-303	N00° 18' 19"W	322.53'

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
233-242	837.94'	5033.30'	N11° 22' 53"E	836.97'
243-244	709.21'	4993.30'	N02° 32' 36"E	708.61'
250-251	841.18'	5203.30'	S03° 06' 21"W	840.27'

GN

SCALE, FEET
0 100 200

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.16 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.16 AMENDMENT NO. 1 RECORDED AS DOCUMENT 781527 AND FILED IN CABINET C, PAGE 54A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 6 NORTH, RANGE 2 WEST, TOWN OF FENNIMORE, AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 2 WEST, TOWN OF LIBERTY ALL IN GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

RUINS

2,649.65'

R/L= N13°25'55"W

2505+00

2500+00

2495+00

2490+00

2485+00

2480+00

BRANCH GREGORY

65'

60'

125'

210'

100'

110'

120'

NO0° 34' 43"W

POINT NAME:1S13
POINT ID: DH8317

TOWN NW SW 32-6-2W

PT = 2496+01.04

USH 61

NE SE 31-6-2W

SE SE 31-6-2W

PL SIXTEENTH LINE

SECTION LINE

R/L=C/L

OF

SW SW 32-6-2W

PI STA = 2479+52.08
Y = 558716.39
X = 836639.06
DELTA = 38°37'06"
D = 1°07'28"
T = 1785.16
L = 3434.12
R = 5095.00
PC STA = 2461+66.92
PT STA = 2496+01.04

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
WELLS ROAD	R/W PROJECT 9577	1941

FENNIMORE

16.5' WIDE TELEPHONE EASEMENT DOC. 538066

2480+61.06=
245.00' W=
S59°38'18.57"E
Y=558400.93
X=836400.93

*8REBAR/GRANT COUNTY ALUM CAP
Y=558960.33
X=836375.46

*8REBAR/GRANT COUNTY ALUM CAP
Y=558967.45
X=833715.91

PI STA = 205+79.78
Y = 558963.35
X = 836479.24
DELTA = 11°47'04"
D = 27°12'50"
T = 21.73
L = 43.30
R = 210.54

REBAR/GRANT COUNTY ALUM CAP
Y=558967.20
X=839027.06

WELLS RD PL SECTION LINE
2,651.61' N89° 51' 06"W

1" IP
Y=558960.38
X=836358.96

SEE DETAIL

TOWN OF LIBERTY NW NW 5-5-2W

STA. 2479+16.27
INT. W/SEC. LINE
Y = 558839.81'
X = 836359.60'

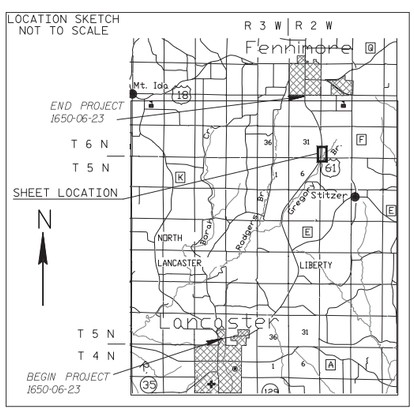
MATCHLINE 4.15

16.5' WIDE TELEPHONE EASEMENT DOC. 538063

PI 2479+52.08

ALUM MON
Y=556222.51
X=836373.54

LOCATION SKETCH
NOT TO SCALE



UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
92	NORTHERN NATURAL GAS	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

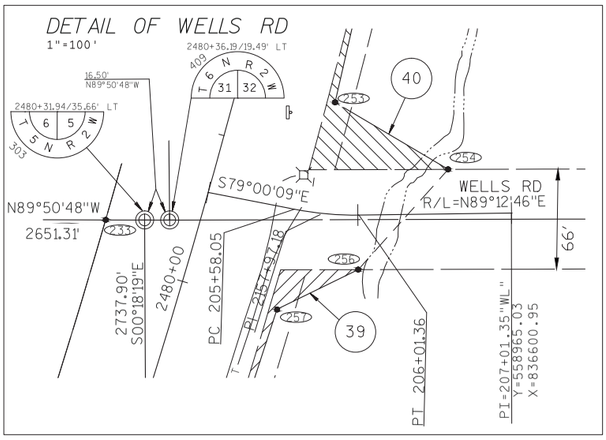
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
39	STUPEK FARMS, INC. A WISCONSIN CORPORATION	FEE	0.04	0.51	0.55
40	NOEL A. STOPEK AND AIMEE S. MULLARNEY	FEE	0.10	1.19	1.29

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
NORTHERN NATURAL GAS	UTILITY EASEMENT V. 675 P. 51 DOC. 541137 BLANKET EASEMENT	39
GRANTLAND TELECOM INC.	UTILITY EASEMENT V. 669 P. 575 DOC. 538063	39
GRANTLAND TELECOM INC.	UTILITY EASEMENT V. 669 P. 578 DOC. 538066	40

DETAIL OF WELLS RD

1"=100'



I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.16 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLADEL

11-9-16
DATE

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.17
LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 6 NORTH, RANGE 2 WEST, TOWN OF FENNIMORE, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DOCUMENT 774618

WAS ACCEPTED IN THE OFFICE OF REGISTER OF DEEDS IN GRANT COUNTY, WISCONSIN AT 10:30 A.M., ON NOV. 17, 2015 AND WAS

FILED IN CABINET C, PAGE 55

96

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.17

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

1650-06-23 4.17

*8REBAR/GRANT COUNTY ALUM CAP
Y=564258.85
X=836322.31

NW NW
32-6-2W

STA. 2524+83.63
INT. W/1/4 LINE
Y = 563363.80'
X = 836331.23'

MATCHLINE 4.18

PI 2523+92.89

PI STA = 2523+92.89
Y = 563291.73
X = 836515.37
DELTA = 24°02'04"
D = 0°47'47"
T = 1531.60
L = 3018.16
R = 7195.00

COURSE TABLE		
COURSE	BEARING	DISTANCE
302-246	N89° 50' 45"E	151.72'
246-866	N01°31'32"W	156.25'
265-263	N00° 34' 16"W	522.59'
867-248	S01°31'32"E	159.24'
248-246	S89° 50' 45"W	125.04'

TOWN

SCHEDULE OF LAND AND INTEREST REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP ACRES
48	ROBERT GRIFFITH	TLE	0.02
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.			

60' 65'

PL SIXTEENTH LINE

STATION OFFSET TABLE		
Point	Station	Offset
246	2507+12.44	60.38' LT
248	2507+09.40	64.62' RT
258	2514+60.00	59.58' LT
259	2514+60.00	80.00' LT
260	2515+10.00	80.00' LT
261	2515+10.00	59.53' LT
263	2527+31.64	66.23' RT
265	2522+24.40	58.97' LT
866	2508+68.75	60.31' LT
867	2508+68.75	64.69' RT

2520+00

NOO° 34' 16"W

GN

SCALE, FEET
0 100 200

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

OF

125'

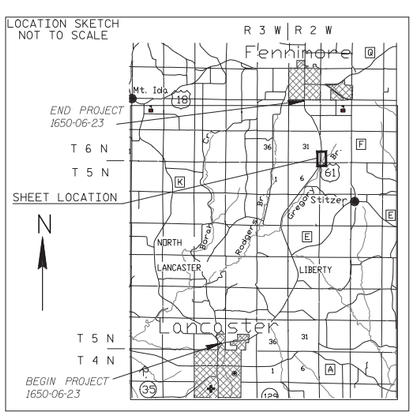
CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
866-265	1344.43'	7102.12'	N06°56'55"W	1342.42'
263-867	1880.06'	7227.12'	S08°58'41"E	1874.77'

QUARTER LINE

2,649.13'

2515+00

LOCATION SKETCH
NOT TO SCALE



SW NW
32-6-2W

48

BRANCH GREGORY

TLE-SLOPES AND DRIVE 0.02 AC.

USH 61

FENNIMORE

R/L = C/L

2510+00

PC=. 2508+61.29

*BREBAR/GRANT COUNTY ALUM CAP
Y=550907.31
X=831046.70

N13°32'55"W 1260.25'

STA. 2507+10.97 Y = 561610.42'
INT. W/1/4 LINE X = 836560.82'

2,445.65' QUARTER LINE PL 2,657.72' TOTAL N89° 50' 45"E

MATCHLINE 4.16

*7REBAR/GRANT COUNTY ALUM CAP
Y=561609.85
X=836248.71

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN ANTHONY J GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-15-15
DATE

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

CORY SCHLAGEL

11-12-15
DATE

F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2015.10.15.USH61.SURVEY.BASE.DWG PLOT DATE : 11/12/2015 7:22 AM PLOT BY : Gromacki, Anthony PLOT NAME : PLOT SCALE.1.1.IN:200 FT

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.18 AMENDMENT NO. 3

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.18 AMENDMENT NO. 2 RECORDED AS DOCUMENT 781528 AND FILED IN CABINET C, PAGE 56A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 31, AND PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 30, ALL IN TOWNSHIP 6 NORTH, RANGE 2 WEST, TOWN OF FENNIMORE, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

DOCUMENT #782574

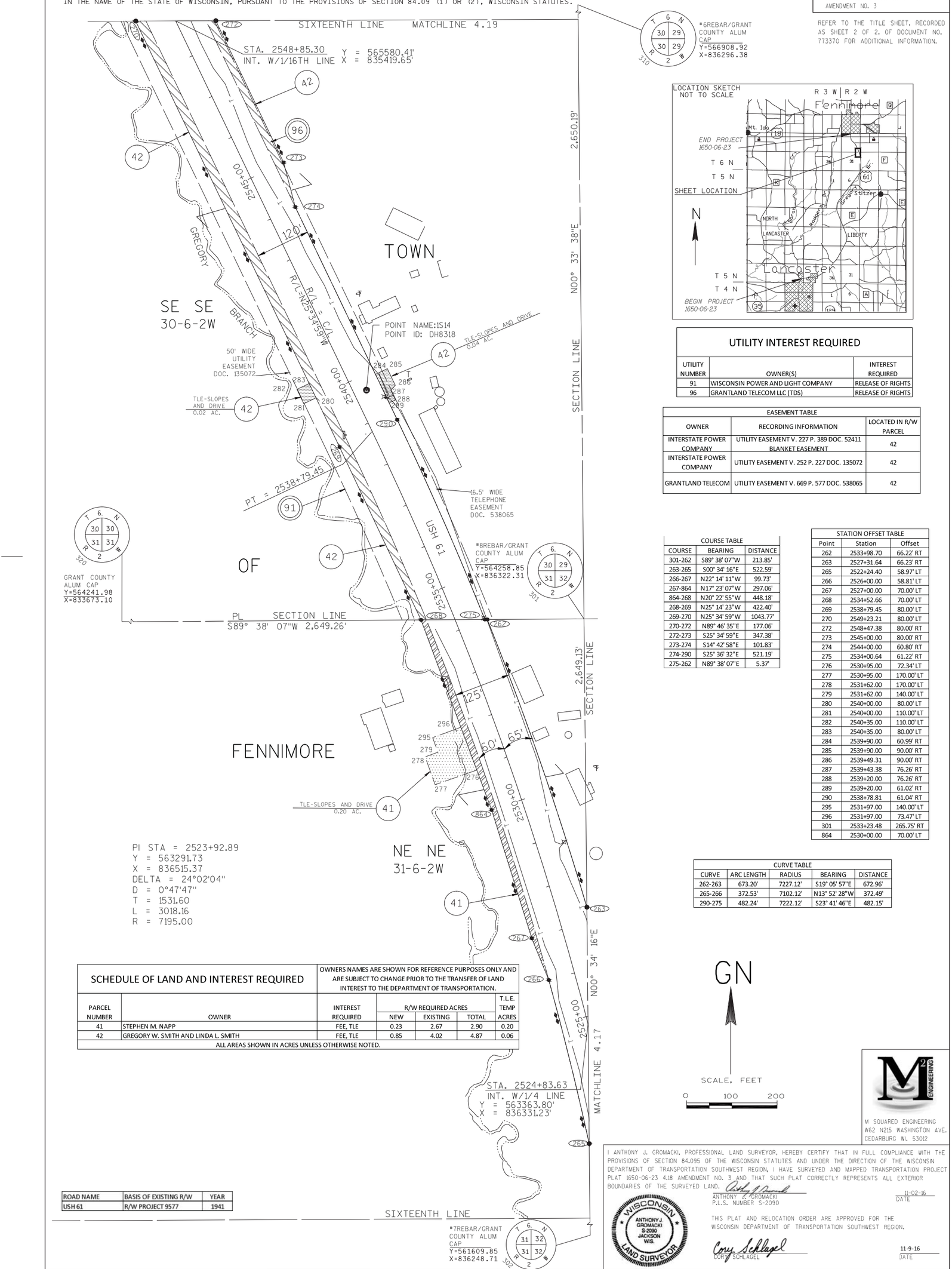
FILED IN CABINET C ON PAGE 56B

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

97

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.18
AMENDMENT NO. 3

REFER TO THE TITLE SHEET. RECORDED AS SHEET 2 OF 2. OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.



UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
91	WISCONSIN POWER AND LIGHT COMPANY	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

EASEMENT TABLE

OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 227 P. 389 DOC. 52411 BLANKET EASEMENT	42
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 252 P. 227 DOC. 135072	42
GRANTLAND TELECOM	UTILITY EASEMENT V. 669 P. 577 DOC. 538065	42

COURSE TABLE

COURSE	BEARING	DISTANCE
301-262	S89° 38' 07"W	213.85'
263-265	S00° 34' 16"E	522.59'
266-267	N22° 14' 11"W	99.73'
267-864	N17° 23' 07"W	297.06'
864-268	N20° 22' 55"W	448.18'
268-269	N25° 14' 23"W	422.40'
269-270	N25° 34' 59"W	1043.77'
270-272	N89° 46' 35"E	177.06'
272-273	S25° 34' 59"E	347.38'
273-274	S14° 42' 58"E	101.83'
274-290	S25° 36' 32"E	521.19'
275-262	N89° 38' 07"E	5.37'

STATION OFFSET TABLE

Point	Station	Offset
262	2533+98.70	66.22' RT
263	2527+31.64	66.23' RT
265	2522+24.40	58.97' LT
266	2526+00.00	58.81' LT
267	2527+00.00	70.00' LT
268	2534+52.66	70.00' LT
269	2538+79.45	80.00' LT
270	2549+23.21	80.00' LT
272	2548+47.38	80.00' RT
273	2545+00.00	80.00' RT
274	2544+00.00	60.80' RT
275	2534+00.64	61.22' RT
276	2530+95.00	72.34' LT
277	2530+95.00	170.00' LT
278	2531+62.00	170.00' LT
279	2531+62.00	140.00' LT
280	2540+00.00	80.00' LT
281	2540+00.00	110.00' LT
282	2540+35.00	110.00' LT
283	2540+35.00	80.00' LT
284	2539+90.00	60.99' RT
285	2539+90.00	90.00' RT
286	2539+49.31	90.00' RT
287	2539+43.38	76.26' RT
288	2539+20.00	76.26' RT
289	2539+20.00	61.02' RT
290	2538+78.81	61.04' RT
295	2531+97.00	140.00' LT
296	2531+97.00	73.47' LT
301	2533+23.48	265.75' RT
864	2530+00.00	70.00' LT

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
262-263	673.20'	7227.12'	S19° 05' 57"E	672.96'
265-266	372.53'	7102.12'	N13° 52' 28"W	372.49'
290-275	482.24'	7222.12'	S23° 41' 46"E	482.15'

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL	T.L.E. TEMP ACRES
41	STEPHEN M. NAPP	FEE, TLE	0.23	2.67	2.90	0.20
42	GREGORY W. SMITH AND LINDA L. SMITH	FEE, TLE	0.85	4.02	4.87	0.06

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.18 AMENDMENT NO. 3 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

11-02-16
DATE

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

CORY SCHLAGEL

11-9-16
DATE

WISCONSIN ANTHONY J. GROMACKI S-2090 JACKSON WIS. LAND SURVEYOR

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG PLOT DATE : 11/9/2016 7:56 AM PLOT BY : Anthony Gromacki PLOT NAME : PLOT SCALE 1.1.IN:200 FT 1650-06-23 4.18 AMENDMENT NO. 3

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.19 AMENDMENT NO. 1

THIS AMENDENDMENT REMOVES UTILITY NUMBER 91 AND ADDS UTILITY NUMBER 95 TO TRANSPORTATION PROJECT PLAT 1650-06-23-4.19, RECORDED AS DOCUMENT 774620 AND FILED IN CABINET C, PAGE 57, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 2 WEST, TOWN OF FENNIMORE, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

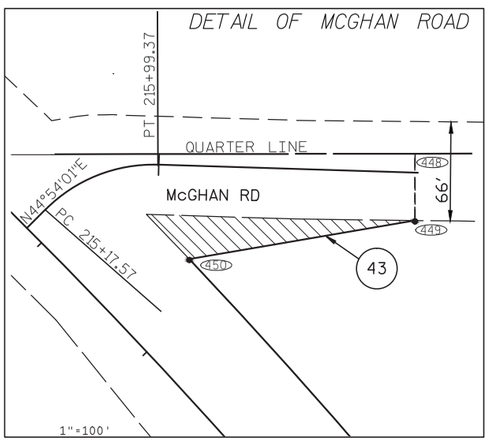
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

DOCUMENT 781529
FILED IN CABINET C,
PAGE 57A
OCTOBER 5, 2016

98

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.19
AMENDMENT NO. 1

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.



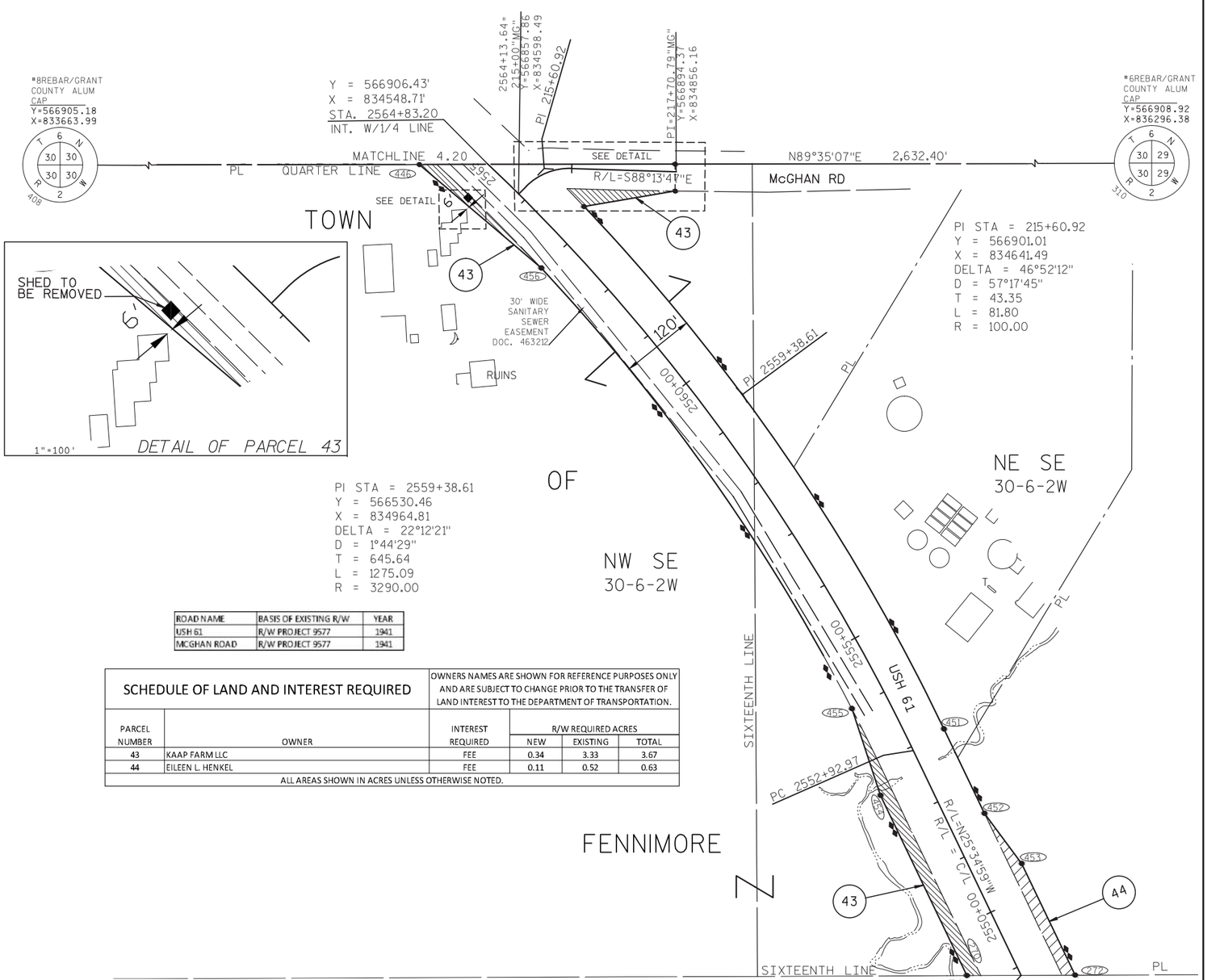
UTILITY INTEREST REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
95	CITY OF FENNIMORE	RELEASE OF RIGHTS

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
CITY OF FENNIMORE	SANITARY SEWER EASEMENT V. 533 P. 509 DOC. 463212	43

STATION OFFSET TABLE		
Point	Station	Offset
270	2549+23.21	80.00' LT
272	2548+47.38	80.00' RT
446	2565+66.62	77.00' LT
448	217+68.58 "MG"	12.43' LT
449	217+70.00 "MG"	31.58' RT
450	2563+25.04	62.31' RT
451	2553+03.03	60.41' RT
452	2551+50.00	60.46' RT
453	2550+50.00	80.00' RT
454	2552+50.00	80.00' LT
455	2555+00.00	59.34' LT
456	2563+00.00	57.72' LT

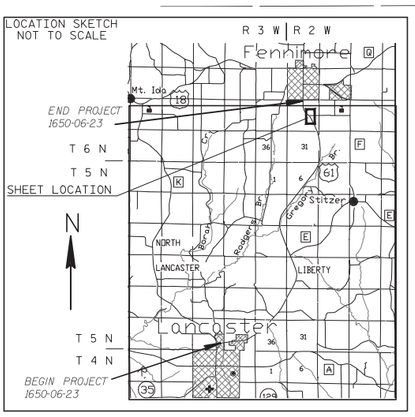
CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
450-451	1041.11'	3334.30'	S34° 33' 14"E	1036.89'
455-456	884.02'	3214.30'	N35° 10' 46"W	881.24'

COURSE TABLE		
COURSE	BEARING	DISTANCE
408-446	N89° 55' 07"E	771.92'
446-448	N89° 55' 07"E	418.43'
448-449	S00° 04' 53"E	44.03'
449-450	S80° 18' 31"W	150.99'
451-452	S25° 36' 32"E	153.22'
452-453	S36° 38' 13"E	101.89'
453-272	S25° 34' 59"E	202.62'
272-270	S89° 46' 35"W	177.06
270-454	N25° 34' 59"W	326.79'
454-455	N18° 17' 19"W	149.26'
456-446	N49° 39' 46"W	261.80'



ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
MCGHAN ROAD	R/W PROJECT 9577	1941

SCHEDULE OF LAND AND INTEREST REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.			
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES		
			NEW	EXISTING	TOTAL
43	KAAP FARM LLC	FEE	0.34	3.33	3.67
44	EILEEN L. HENKEL	FEE	0.11	0.52	0.63
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.					





M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.19 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

9-22-16
DATE

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

CORY SCHLAGEL

9-23-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.09.20.USH61.SURVEY.BASE.DWG
PLOT DATE : 9/23/2016 12:56 PM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT SCALE=1.1.IN:200 FT
1650-06-23 4.19 AMENDMENT NO. 1

DOCUMENT #782575

FILED IN CABINET C, ON PAGE 58B

IN THE OFFICE OF REGISTER OF DEEDS IN GRANT, COUNTY, ON 11/14/2016.

99

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-06-23-4.20
AMENDMENT NO. 2

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 773370 FOR ADDITIONAL INFORMATION.

ROAD NAME	BASIS OF EXISTING R/W	YEAR
USH 61	R/W PROJECT 9577	1941
USH 61	CSM 817	2001
MCGHAN ROAD	R/W PROJECT 9577	1941

CURVE TABLE				
CURVE	ARC LENGTH	RADIUS	BEARING	DISTANCE
458-463	1575.11'	1850.00'	S24° 27' 04"E	1527.96'
464-465	181.62'	3334.30'	S47° 16' 54"E	181.60'
469-470	50.42'	3184.30'	N48° 23' 19"W	50.42'
472-473	96.16'	1970.00'	N47° 26' 38"W	96.15'
476-479	755.41'	1970.00'	N11° 02' 43"W	750.79'

STATION OFFSET TABLE		
Point	Station	Offset
311	2594+33.42	0.11' LT
457	2594+33.38	59.89' RT
458	2584+31.99	59.33' RT
463	2568+07.89	58.70' RT
464	2566+31.37	61.94' RT
465	2564+51.95	62.42' RT
469	2565+78.19	87.50' LT
471	2568+05.14	91.28' LT
472	2568+05.69	61.28' LT
473	2569+00.00	61.58' LT
474	2571+00.00	100.00' LT
475	2575+00.00	100.00' LT
476	2577+00.00	61.12' LT
478	2564+36.14	46.05' RT
479	2584+32.06	60.67' LT
480	2594+33.45	60.11' LT
868	2572+60.00	100.00' LT

COURSE TABLE		
COURSE	BEARING	DISTANCE
311-457	N89° 56' 24"E	60.00'
457-458	S00° 03' 36"E	1001.39'
463-464	S48° 50' 32"E	176.56'
465-478	S00°04'53"E	22.94'
478-469	S89° 55' 07"W	194.48'
470-471	N48° 50' 32"W	176.56'
471-472	N41° 09' 28"E	30.00'
473-474	N53° 30' 22"W	211.87'
474-868	N37° 40' 17"W	168.33'
868-475	N31° 40' 08"W	252.40'
475-476	N14° 30' 31"W	211.93'
479-480	N00° 03' 36"W	1001.40'
480-311	N89° 56' 24"E	60.00'

SCHEDULE OF LAND AND INTEREST REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED ACRES NEW	EXISTING	TOTAL
46	CARL I. NELSON III AND JUDY L. NELSON	FEE	0.52	4.64	5.16

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED.

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL
CITY OF FENNIMORE	SANITARY SEWER EASEMENT V. 533 P. 509 DOC. 463212	46
INTERSTATE POWER COMPANY	UTILITY EASEMENT V. 231 P. 295 BLANKET EASEMENT	46
GRANTLAND TELECOM	UTILITY EASEMENT V. 673 P. 237 DOC. 540139	46

UTILITY INTEREST REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
91	WISCONSIN POWER AND LIGHT CO. (ALLIANT ENERGY)	RELEASE OF RIGHTS
95	CITY OF FENNIMORE	RELEASE OF RIGHTS
96	GRANTLAND TELECOM LLC (TDS)	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1650-06-23-4.20 AMENDMENT NO. 2

THIS AMENDMENT ADDS UTILITY NUMBER 96 AND REMOVES UTILITY PARCEL 90 FROM TRANSPORTATION PROJECT PLAT 1650-06-23-4.20 AMENDMENT NO. 1 RECORDED AS DOCUMENT 781530 AND FILED IN CABINET C, PAGE 58A, IN GRANT COUNTY.

LANCASTER-BOSCOBEL CITY LIMITS ST TO FENNIMORE CITY LIMITS

PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 2 WEST, TOWN OF FENNIMORE, GRANT COUNTY, WISCONSIN.

RELOCATION ORDER USH 61 GRANT COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

M SQUARED ENGINEERING
W62 N215 WASHINGTON AVE.
CEDARBURG WI. 53012

I ANTHONY J. GROMACKI, 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 SOUTHWEST REGION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-06-23 4.20 AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

ANTHONY J. GROMACKI
P.L.S. NUMBER S-2090

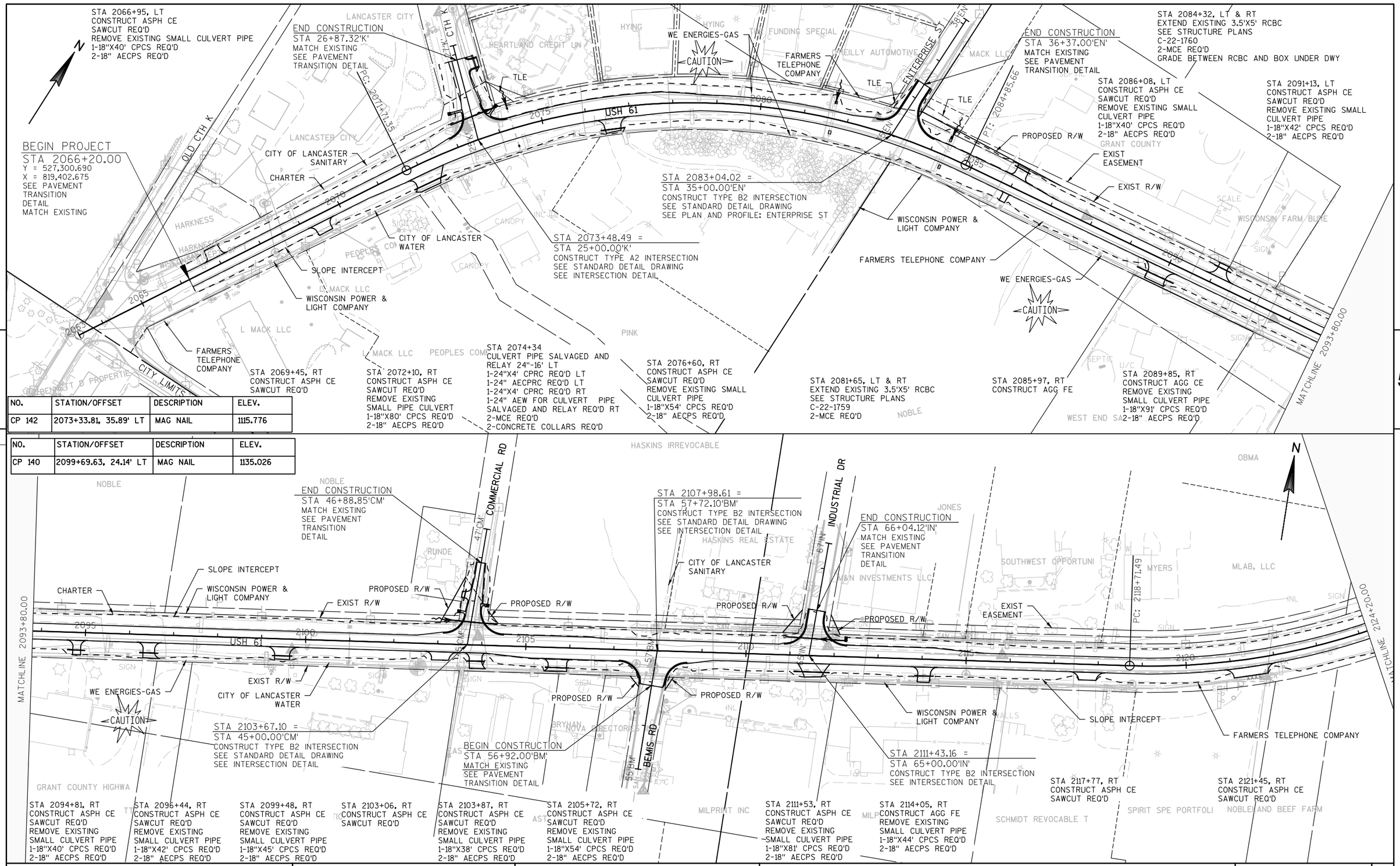
11-02-16
DATE

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

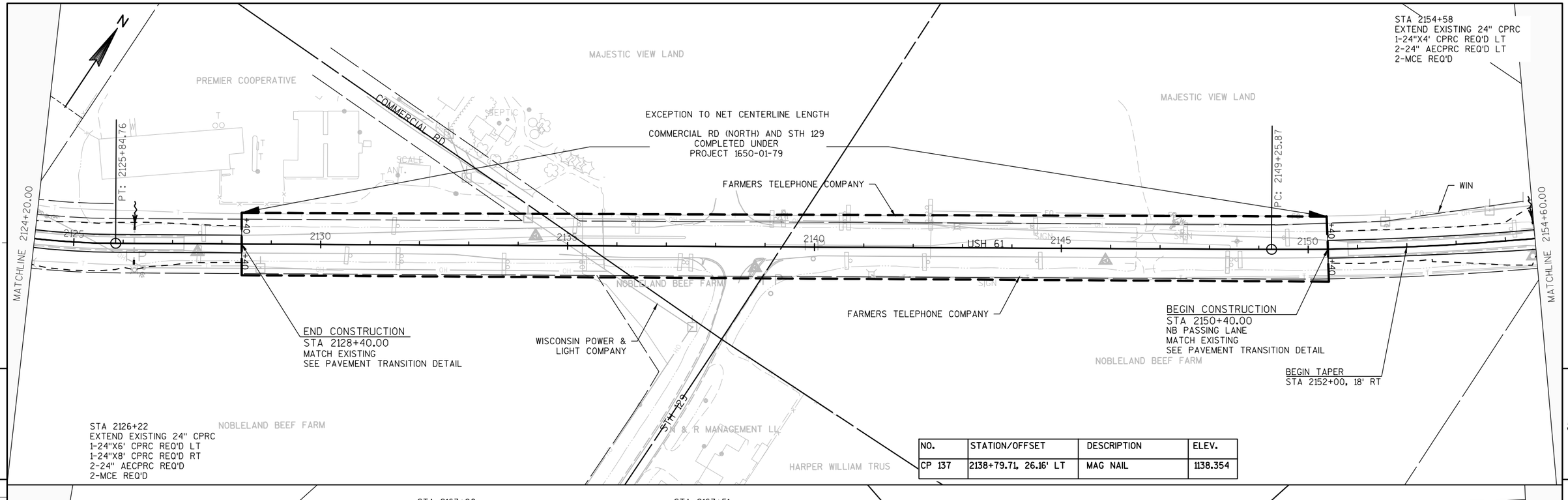
CORY SCHLAGEL

11-9-16
DATE

FILE NAME : F:\PROJECTS\11-24-029 (03) USH 61 LANCASTER TO FENNIMORE\SURVEY\CAD\2016.11.01.USH61.SURVEY.BASE.DWG
PLOT DATE : 11/9/2016 7:58 AM
PLOT BY : Anthony Gromacki
PLOT NAME : PLOT SCALE 1.1.IN:200 FT
1650-06-23 4.20 AMENDMENT NO. 2



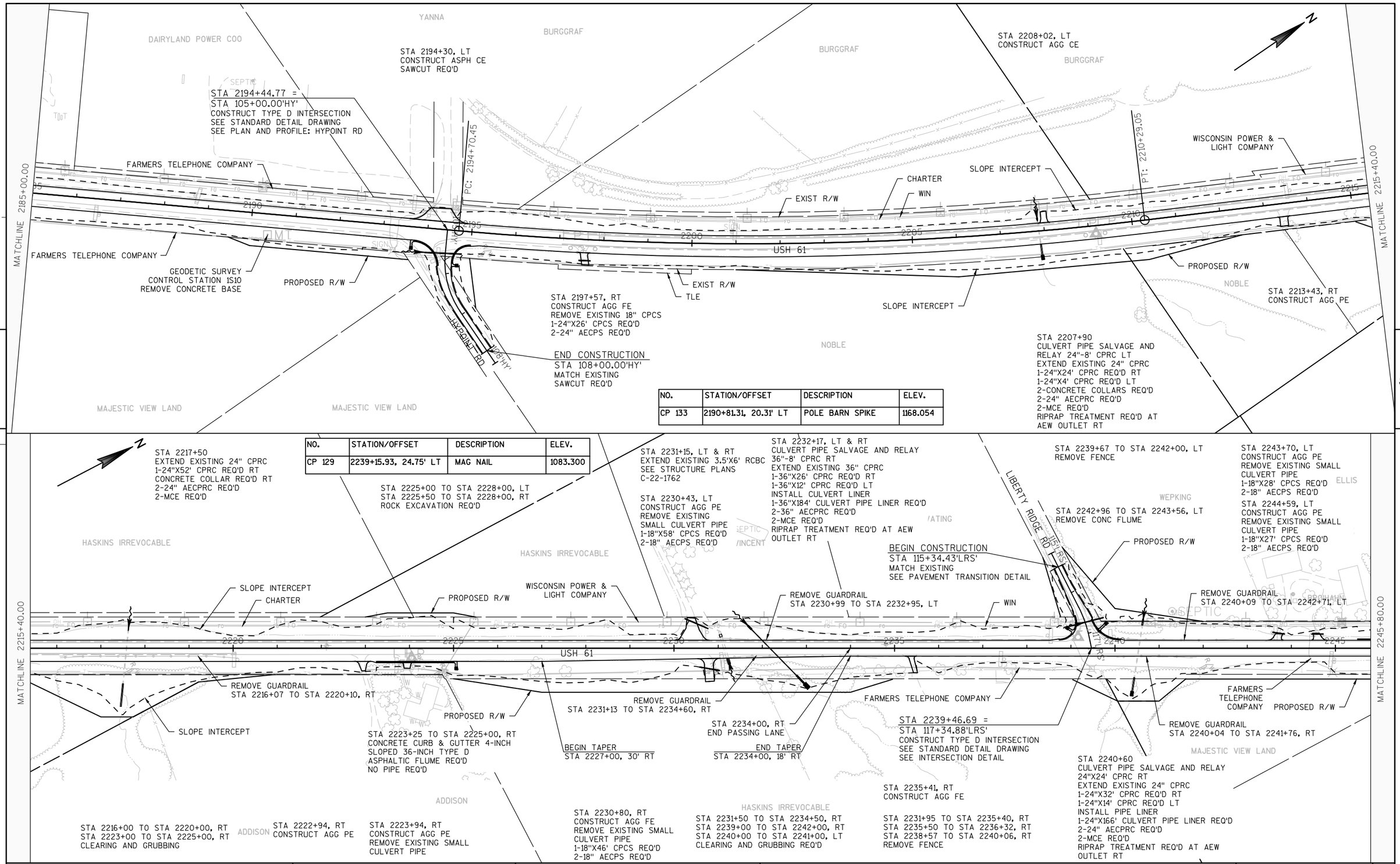
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 100	E



NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 137	2138+79.71, 26.16' LT	MAG NAIL	1138.354

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 135	2165+82.75, 20.78' RT	POLE BARN SPIKE	1108.101

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 101	E



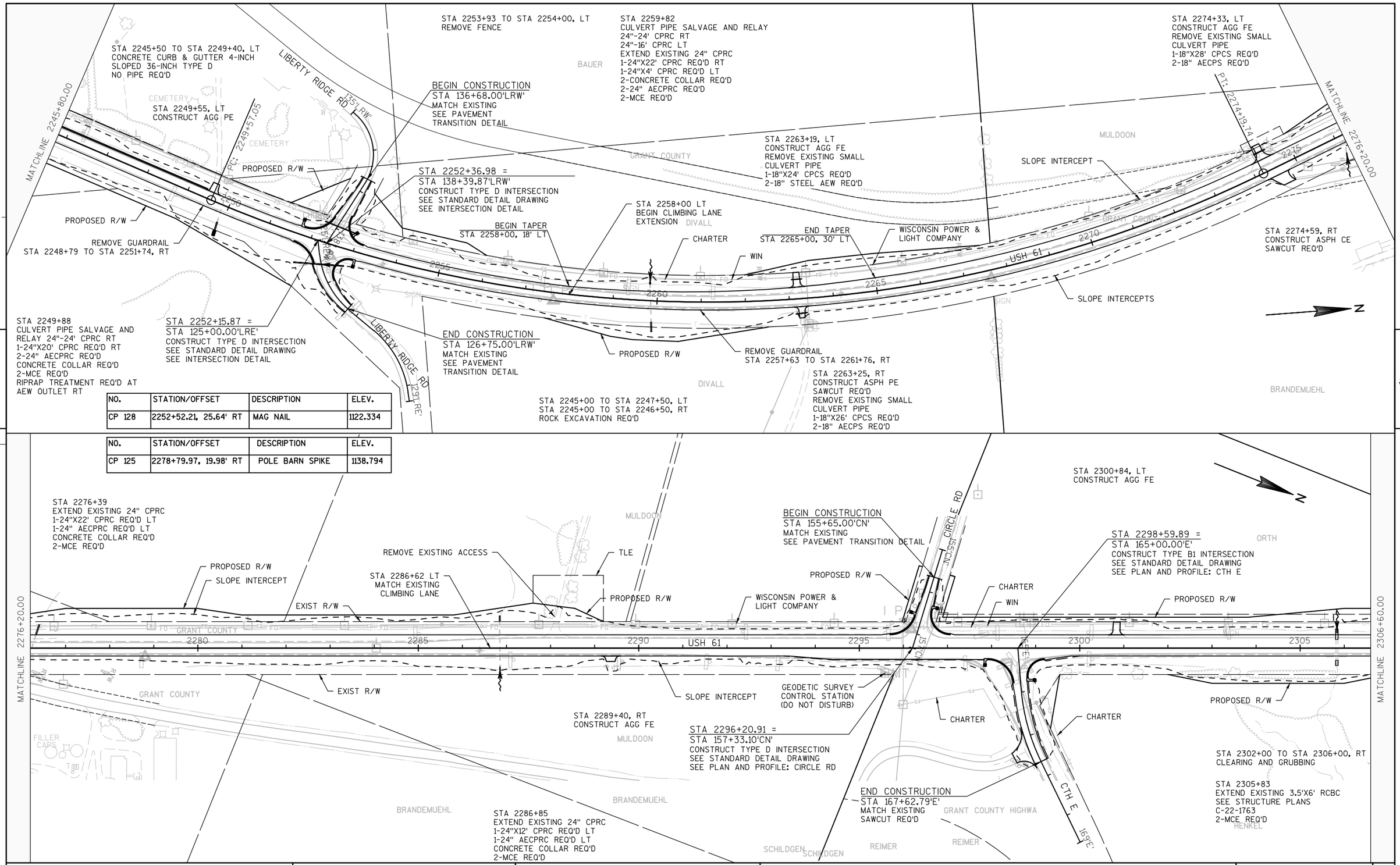
NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 133	2190+81.31, 20.31' LT	POLE BARN SPIKE	1168.054

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 129	2239+15.93, 24.75' LT	MAG NAIL	1083.300

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 102	E

FILE NAME : P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : SAVANNAH STEHN PLOT NAME : ---------- PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42



NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 128	2252+52.21, 25.64' RT	MAG NAIL	1122.334

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 125	2278+79.97, 19.98' RT	POLE BARN SPIKE	1138.794

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 103	E

STA 2307+55 TO STA 2310+14, LT
REMOVE FENCE

STA 2310+00 TO STA 2317+00, LT
ROCK EXCAVATION REQ'D

STA 2321+00
REMOVE EXISTING SMALL CULVERT PIPE 30' RT
EXTEND EXISTING 36" CPCS LT
1-36"X12' CPCS REQ'D LT
1-36"X58' CPCS REQ'D RT
INSTALL CULVERT PIPE LINER
1-36"X192' CULVERT PIPE LINER REQ'D
2-36" AECPS REQ'D
2-MCE REQ'D
RIPRAP TREATMENT REQ'D AT AEW OUTLET RT

STA 2331+00 TO STA 2334+00, RT
STA 2334+00 TO STA 2340+00, LT
CLEARING AND GRUBBING

STA 2323+00 TO STA 2324+00, LT
STA 2328+00 TO STA 2329+50, LT
ROCK EXCAVATION REQ'D

N

MATCHLINE 2306+60.00

PROPOSED R/W

WISCONSIN POWER &
LIGHT COMPANY

EXIST R/W

TLE

REMOVE GUARDRAIL
STA 2318+28 TO STA 2321+29, LT

SLOPE INTERCEPT

WIN

REMOVE GUARDRAIL
STA 2330+26 TO STA 2333+84, LT

PROPOSED R/W

ORTH

2310 2315 USH 61 2320 2325 2330 2335

EXIST R/W

REMOVE GUARDRAIL
STA 2319+07 TO STA 2322+47, RT

PROPOSED R/W

SCHMITZ

SLOPE INTERCEPT

REMOVE GUARDRAIL
STA 2330+89 TO STA 2334+88, RT

PROPOSED R/W

MATCHLINE 2337+00.00

STA 2311+72, RT
CONSTRUCT AGG FE

STA 2323+44, RT
CONSTRUCT AGG FE

SCHMITZ

QUINCY

5

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 122	2321+42.34, 27.31' LT	MAG NAIL	1058.321

HENKEL

STA 2313+00 TO STA 2317+00, RT
STA 2329+00 TO STA 2330+50, RT
ROCK EXCAVATION REQ'D

STA 2319+00 TO STA 2322+00, RT
CLEARING AND GRUBBING

COUNTRYVIEW LANE LL

STA 2332+17 TO STA 2334+46, RT
STA 2334+54 TO STA 2342+40, LT
REMOVE FENCE

STA 2332+95
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1764
2-MCE REQ'D

STA 2334+50 TO STA 2340+50, LT
ROCK EXCAVATION REQ'D

STA 2344+21, LT
CONSTRUCT AGG FE
REMOVE EXISTING SMALL
CULVERT PIPE
1-18"X26' CPCS REQ'D
2-18" AECPS REQ'D

N

IMPACTED
WETLANDS

STA 2346+89.41 =
STA 175+00.00'GL'
CONSTRUCT TYPE C INTERSECTION
SEE STANDARD DETAIL DRAWING
SEE INTERSECTION DETAIL

2342+26.84 P.C.

WISCONSIN POWER
& LIGHT COMPANY

BEGIN TAPER
STA 2340+22, 30' LT

PROPOSED R/W

FARMERS TELEPHONE
COMPANY

TLE

2340 2345

MATCHLINE 2337+00.00

EXCEPTION TO NET CENTERLINE LENGTH
STA 2350+63 - STA 2350+95
STRUCTURE
B-22-702

GREGORY BR.

END TAPER
STA 2347+22, 18' LT

STA 2347+22 LT
END CLIMBING LANE

GEODETIC SURVEY
CONTROL STATION
(DO Nnot DISTURB)

ROGERS RD

185'RT

181'RT

GRANTLAND
TELECOM LLC

PAVING DETAIL AT
STRUCTURE B-22-702
(SEE CONSTRUCTION DETAIL)

GREGORY LN

79.81'

END CONSTRUCTION
STA 177+35.85GL'
MATCH EXISTING
SAWCUT REQ'D

EXIST R/W

STA 2346+08 TO STA 2346+72, LT
STA 2348+26 TO STA 2350+07, LT
STA 2350+10 TO STA 2351+00, RT
STA 2350+92 TO STA 2352+26, LT
STA 2351+07 TO STA 2352+40, RT
STA 2352+92 TO STA 2358+42, LT
STA 2361+12 TO STA 2366+60, LT
REMOVE FENCE

MGS GUARDRAIL 3 REQ'D
STA 2349+56.72 TO STA 2350+23.70, RT

MGS GUARDRAIL TERMINAL EAT REQ'D
STA 2349+03.60, RT
STA 2349+71.21, LT
STA 2351+87.04, RT
STA 2351+87.24, LT

MGS THRIE BEAM TRANSITION REQ'D
STA 2350+23.70 TO STA 2350+63.10, RT
STA 2350+24.33 TO STA 2350+63.73, LT
STA 2350+94.52 TO STA 2351+33.92, RT
STA 2350+94.62 TO STA 2351+34.02, LT

BEGIN CONSTRUCTION
STA 185+61.87'RG'
MATCH EXISTING
SEE PAVEMENT
TRANSITION

DETAIL

STA 2358+62, LT
CONSTRUCT AGG PE

TOMLIN FARMS

SEPTIC

PROPOSED R/W

EXIST R/W

WIN

SLOPE INTERCEPT

2355 USH 61 2360

PROPOSED R/W

TOMLIN FARMS

STA 2352+55.21 =
STA 187+21.04'RG'
CONSTRUCT TYPE D INTERSECTION
SEE STANDARD DETAIL DRAWING
SEE INTERSECTION DETAIL

REMOVE GUARDRAIL
STA 2349+06 TO STA 2352+27, RT
STA 2349+32 TO STA 2352+13, LT

GRANTLAND TELECOM
LLC

2365

GREGORY BR.

STA 2362+00 TO STA 2364+00, LT
STA 2365+00 TO STA 2371+00, LT
CLEARING AND GRUBBING

STA 2362+00 TO STA 2363+50, LT
ROCK EXCAVATION REQ'D

STA 2363+94
CULVERT PIPE SALVAGE AND
RELAY 36"-8' CPRC RT
EXTEND EXISTING 36" CPRC
1-36"X6' CPRC REQ'D LT
CONCRETE COLLAR RE'QD
2-36" AECPRC REQ'D
2-MCE REQ'D

STA 2360+78
CULVERT PIPE SALVAGE AND RELAY
30"-8' CPRC RT
30"-8' CPRC LT
EXTEND EXISTING 30" CPRC
1-30"X4' CPRC REQ'D RT
1-30"X6' CPRC REQ'D LT
2-CONCRETE COLLAR REQ'D
2-30" AECPRC REQ'D
2-MCE REQ'D
RIPRAP TREATMENT REQ'D AT
AEW OUTLET RT

SLOPE INTERCEPT

WISCONSIN POWER &
LIGHT COMPANY

MATCHLINE 2367+40.00

QUINCY

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 119	2364+05.35, 19.17' RT	POLE BARN SPIKE	925.506

5

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 104	E

STA 2368+46
EXTEND EXISTING 24" CPRC
1-24"X8' CPRC REQ'D LT
1-24"X6' CPRC REQ'D RT
2-CONCRETE COLLARS REQ'D
2-24" AECPRC REQ'D RT
2-MCE REQ'D

STA 2374+03
EXTEND EXISTING 42" CPRC
1-42"X4' CPRC REQ'D RT
1-42"X8' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-42" AECPRC REQ'D
2-MCE REQ'D

STA 2395+78
CULVERT PIPE SALVAGE AND RELAY
30"-8' RT
30"-8' LT
EXTEND EXISTING 30" CPRC
1-30"X4' CPRC REQ'D LT
CONCRETE COLLAR REQ'D
2-30" AECPRC REQ'D
1-MCE REQ'D RT

STA 2395+83
CULVERT PIPE SALVAGE AND RELAY
30"X8'-RT
30"X8'-LT
EXTEND EXISTING 30" CPRC
1-30"X4' CPRC REQ'D LT
CONCRETE COLLAR REQ'D
2-30" AECPRC REQ'D
1-MCE REQ'D LT

STA 2377+56, LT
CONSTRUCT AGG PE

RT: 2378+18.89

STA 2390+51, LT
CONSTRUCT AGG FE

TOMLIN FARMS

SCANLAN BROTHERS LL

STIVARIUS

SLOPE INTERCEPT

EXIST R/W

WISCONSIN POWER &
LIGHT COMPANY

WIN

USH 61

IMPACTED
WETLANDS

GRANTLAND TELECOM LLC

EXIST R/W

SLOPE INTERCEPT

STA 2396+50 RT
BEGIN PASSING LANE SECTION

BEGIN TAPER
STA 2396+50, 18' RT

MATCHLINE 2367+40.00

MATCHLINE 2397+80.00

STA 2382+08, RT
CONSTRUCT AGG FE

GREGORY BR.

QUINCY

LANE

STA 2377+78
CULVERT PIPE SALVAGE AND
RELAY 36"-8' CPRC
EXTEND EXISTING 36" CPRC
1-36"X6' CPRC REQ'D RT
1-36"X6' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-36" AECPRC REQ'D
2-MCE REQ'D

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 117	2390+57.68, 23.22' LT	POLE BARN SPIKE	943.274

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 115	2416+49.09, 17.42' LT	POLE BARN SPIKE	985.284

STA 2412+26, LT
CONSTRUCT AGG FE

STA 2415+36, LT
CONSTRUCT AGG CE
REMOVE EXISTING SMALL
CULVERT PIPE
1-18"X25' CPCS REQ'D
2-18" AECPS REQ'D

STA 2425+00 TO STA 2428+00, LT
ROCK EXCAVATION REQ'D

STA 2412+50 TO STA 2412+82, LT
STA 2419+32 TO STA 2421+28, LT
REMOVE FENCE

STA 2422+77
EXTEND EXISTING 30" CPRC
1-30"X16' CPRC REQ'D RT
1-30"X4' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-30" AECPRC REQ'D
2-MCE REQ'D

STA 2427+65.33 =
STA 195+00.00'PG'
CONSTRUCT TYPE D INTERSECTION
SEE STANDARD DETAIL DRAWING
SEE PLAN AND PROFILE: PINE GROVE RD

STA 2402+39, LT
CONSTRUCT AGG FE

SCANLAN BROTHERS LL

SLOPE INTERCEPT

EXIST R/W

WISCONSIN POWER &
LIGHT COMPANY

TLE

PROPOSED R/W

WIN

USH 61

END TAPER
STA 2403+50, 30' RT

GRANTLAND TELECOM LLC

EXIST R/W

TLE

PRIVATE UTILITY POLE
(WORK BY OTHERS)

PRIVATE WATER LINES
(WORK BY OTHERS)

TLE

PROPOSED R/W

SLOPE INTERCEPT

IMPACTED
WETLANDS

MATCHLINE 2397+80.00

MATCHLINE 2428+20.00

STA 2402+59
REMOVE EXISTING CONCRETE
MASONRY ENDWALLS
1-48"X12' CPRC REQ'D RT
CONCRETE COLLAR REQ'D
2-48" AECPRC REQ'D
2-MCE REQ'D

STA 2411+18, RT
CONSTRUCT AGG FE

STA 2415+37, RT
CONSTRUCT AGG FE

GREGORY BR.

LANE

STA 2412+78
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1765
2-MCE REQ'D

STA 2406+70 TO STA 2427+29, RT
REMOVE FENCE

YELINEK

= REMOVE TREE

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 105	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : SAVANNAH STEHN PLOT NAME : ---------- PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

MATCHLINE 2428+20.00

MATCHLINE 2458+60.00

STA 2431+32
EXTEND EXISTING 42" CPRC
1-42"X16' CPRC REQ'D RT
1-42"X4' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-42" AECPRC REQ'D
2-MCE REQ'D

STA 2431+66, LT
CONSTRUCT AGG CE

PROPOSED R/W

SLOPE INTERCEPT

EXIST R/W

WISCONSIN POWER &
LIGHT COMPANY

STA 2447+32, LT & RT
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1767
2-MCE REQ'D

STA 2449+52, LT
CONSTRUCT AGG FE

WIN

PROPOSED R/W

USH 61

EXIST R/W

PROPOSED R/W

SLOPE INTERCEPT

GRANTLAND TELECOM LLC

PROPOSED R/W

TLE

CSTPG

PINE GROVE RD

GEODETIC SURVEY
CONTROL STATION
(DO NOT DISTURB)

END CONSTRUCTION
STA 197+44.55'PG'
MATCH EXISTING STRUCTURE

PROPOSED R/W

IMPACTED
WETLANDS

GREGORY BR.

STA 2432+00 TO 2434+00, RT
CLEARING AND GRUBBING

STA 2432+78
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1766
2-MCE REQ'D

STA 2433+49 TO STA 2436+31, RT
REMOVE FENCE

STA 2449+54, RT
CONSTRUCT AGG PE
REMOVE EXISTING SMALL
CULVERT PIPE
1-18"X23' CPCS REQ'D
2-18" AECPS REQ'D

STA 2452+87 TO STA 2476+53, RT
REMOVE FENCE

X = REMOVE TREE

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 113	2442+09.47, 17.98' LT	POLE BARN SPIKE	967.998

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 110	2480+51.89, 25.65' RT	MAG NAIL	987.794

STA 2469+78 TO STA 2470+05, LT
REMOVE FENCE

STA 2467+64, LT
CONSTRUCT AGG CE
REMOVE EXISTING SMALL
CULVERT PIPE
1-18"X56' CPCS REQ'D
2-18" AECPS REQ'D

STA 2480+30, LT
CONSTRUCT AGG CE

STA 2482+55, LT
CONSTRUCT AGG PE

STA 2481+16
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1771
2-MCE REQ'D

REMOVE GUARDRAIL
STA 2459+46 TO STA 2462+24, LT

CAUTION

NORTHERN NATURAL
GAS COMPANY (6")

PC: 2461+66.92

STA 2480+61.06 =
STA 205+00.00'WL'
CONSTRUCT TYPE C INTERSECTION
SEE STANDARD DETAIL DRAWING
SEE PLAN AND PROFILE: WELLS LN

SLOPE INTERCEPT

WISCONSIN POWER &
LIGHT COMPANY

WIN

TLE

REMOVE GUARDRAIL
STA 2459+68 TO STA 2462+44, RT

USH 61

PROPOSED R/W

TLE

SLOPE INTERCEPT

PROPOSED R/W

STA 2460+50 TO STA 2461+50, RT
CLEARING AND GRUBBING

STA 2461+00
CULVERT PIPE SALVAGE AND
RELAY 48"-24' CPRC RT
EXTEND EXISTING 48" CPRC
1-48"X36' CPRC REQ'D RT
1-48"X8' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-48" AECPRC REQ'D
2-MCE REQ'D
RIPRAP TREATMENT REQ'D AT
AEW OUTLET RT

STA 2468+86, RT
CONSTRUCT AGG FE

STA 2469+76
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1768
2-MCE REQ'D

STA 2478+41 TO STA 2480+17, RT
REMOVE FENCE

GRANTLAND TELECOM LLC

207'WL' WELLS LN

END CONSTRUCTION
STA 206+10.00'WL'
MATCH EXISTING STRUCTURE

STA 2480+87 TO STA 2497+21, RT
REMOVE FENCE

STA 2488+49, RT
CONSTRUCT AGG FE

STA 2488+80
EXTEND EXISTING 36" CPRC
1-36"X22' CPRC REQ'D RT
1-36"X4' CPRC REQ'D LT
2-CONCRETE COLLARS REQ'D
2-36" AECPRC REQ'D
2-MCE REQ'D

SCANLAN
EVERITT
WELLS
YELINEK
STUPEK FARMS INC
STUPEK
GRESSMAN
GREENHOUSE
SEPTIC
TANKS
SIGN

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 106	E

FILE NAME : P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : SAVANNAH STEHN PLOT NAME : ---------- PLOT SCALE : 1 IN:200 FT

STA 2490+50 TO STA 2494+50, LT
CLEARING & GRUBBING REQ'D

STA 2491+00 TO STA 2494+00, LT
ROCK EXCAVATION REQ'D

GRESSMAN

STA 2489+78 TO STA 2496+10, LT
STA 2497+82 TO STA 2498+25, LT
REMOVE FENCE

FAULKNER

STA 2503+14
EXTEND EXISTING 36" CPRC
1-36"X4' CPRC REQ'D RT
CONCRETE COLLAR REQ'D
1-36" AECPRC REQ'D RT
2-MCE REQ'D

STA 2511+82 TO STA 2519+00, LT
REMOVE FENCE

GRIFFITH

STA 2514+32
EXTEND EXISTING 24" CPRC
1-24"X16' CPRC REQ'D LT
1-24"X4' CPRC REQ'D RT
2-CONCRETE COLLAR REQ'D
2-24" AECPRC REQ'D
2-MCE REQ'D

N

STA 2514+85, LT
CONSTRUCT AGG PE

MATCHLINE 2489+00.00

EXIST R/W

SLOPE INTERCEPT

WIN

PT: 2496+01.04

IMPACTED WETLANDS

REMOVE GUARDRAIL
STA 2496+50 TO STA 2498+24, LT

GREGORY BR.

IMPACTED WETLANDS

BEGIN TAPER
STA 2504+50, 18' LT

STA 2504+50 LT
BEGIN PASSING LANE SECTION

PC: 2508+6.29

GRANTLAND TELECOM LLC

END TAPER
STA 2511+50, 30' LT

GRIFFITH

TLE

WISCONSIN POWER & LIGHT COMPANY

MATCHLINE 2519+40.00

2490 2495 2500 2505 2510 2515

USH 61

PROP

BEGIN TAPER
STA 2489+00, 30' RT

EXIST R/W

GEODETIC SURVEY
CONTROL STATION 1513
REMOVE GEODETIC SURVEY
CONTROL STATION MARKER

REMOVE GUARDRAIL
STA 2496+00 TO STA 2497+80, RT

IMPACTED WETLANDS

SLOPE INTERCEPT

GRANTLAND TELECOM LLC

SEPTIC

STA 2516+03, RT
CONSTRUCT AGG PE

STA 2496+00 RT
END PASSING LANE

END TAPER
STA 2496+00, 18' RT

RUINS

STA 2502+98, RT
CONSTRUCT AGG PE

STA 2517+77
EXTEND EXISTING 24" CPRC
1-24"X14' CPRC REQ'D LT
1-24"X4' CPRC REQ'D RT
2-CONCRETE COLLARS REQ'D
2-24" AECPRC REQ'D
2-MCE REQ'D

REYNOLDS

STA 2480+87 TO STA 2497+21, RT
REMOVE FENCE

STUPEK

STA 2497+15, LT & RT
EXTEND EXISTING 10'X6' RCBC
SEE STRUCTURE PLANS
SEE CONSTRUCTION DETAIL "TEMPORARY BYPASS CHANNEL"
C-22-1769
2-MCE REQ'D

STUPEK

FAULKNER

ROCKY DELL INVESTME

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 107	2515+89.87, 23.21' RT	POLE BARN SPIKE	1011.284

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 106	2530+30.98, 24.16' RT	POLE BARN SPIKE	1028.227

STA 2530+45
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1770
2-MCE REQ'D

NAPP

STA 2523+63 TO STA 2561+95, LT
REMOVE FENCE

STA 2539+55
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1772
2-MCE REQ'D

SMITH

N

STA 2528+75, LT
SAWCUT FOUNDATION AT R/W
REMOVE MASONRY IN R/W

STA 2531+35, LT
CONSTRUCT AGG CE
2-60"X30' CPCS REQ'D
4-60" AECPS REQ'D

STA 2540+18, LT
REMOVE EXISTING AGG FE

STA 2544+00, LT
CONSTRUCT AGG FE
FINAL LOCATION AND GRADE TO BE DETERMINED IN THE FIELD

WISCONSIN POWER & LIGHT COMPANY

GREGORY BR.

MATCHLINE 2519+40.00

SLOPE INTERCEPT

EXIST R/W

TLE

GRANTLAND TELECOM LLC

PROPOSED R/W

PT: 2538+79.45

TLE

WIN

2520 2525 2530 2535 2540 2545

USH 61

SIGN

GRANTLAND TELECOM LLC

EXIST R/W

NAPP

TLE

GEODETIC SURVEY
CONTROL STATION 1S14
REMOVE GEODETIC SURVEY
CONTROL STATION MARKER

SEPTIC

SLOPE INTERCEPT

PROPOSED R/W

MATCHLINE 2549+80.00

STA 2539+46 TO STA 2539+82, RT
STA 2544+17 TO STA 2551+50, RT
REMOVE FENCE

STA 2548+00 TO STA 2551+00, RT
CLEARING AND GRUBBING

STA 2546+49
CULVERT PIPE SALVAGE AND RELAY
42"-24 CPRC LT
EXTEND EXISTING 42" CPRC
1-42"X16' CPRC REQ'D LT
CONCRETE COLLAR REQ'D
2-42" AECPRC REQ'D
2-MCE REQ'D

STA 2523+98
REMOVE EXISTING MASONRY ENDWALLS
EXTEND EXISTING 24" CPRC
1-24"X16' CPRC REQ'D LT
1-24"X8' CPRC REQ'D RT
2-CONCRETE COLLARS REQ'D
2-24" AECPRC REQ'D
2-MCE REQ'D

STA 2523+82, RT
CONSTRUCT AGG FE

STA 2528+45, RT
CONSTRUCT AGG FE

STA 2530+16, RT
STA 2530+80, RT
STA 2531+33, RT
CONSTRUCT AGG PE

STA 2535+93
EXTEND EXISTING 24" CPRC
1-24"X18' CPRC REQ'D LT
1-24"X8' CPRC REQ'D RT
2-CONCRETE COLLARS REQ'D
2-24" AECPRC REQ'D
2-MCE REQ'D
CLEAN EXISTING CULVERT PIPE

KEL

STA 2539+28, RT
STA 2539+93, RT
CONSTRUCT AGG PE
REMOVE EXISTING SMALL CULVERT PIPE
1-18"X24' CPCS REQ'D
2-18" AECPS REQ'D

SMITH

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 107	E

FILE NAME : P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : SAVANNAH STEHN PLOT NAME : ---------- PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

STA 2552+60
EXTEND EXISTING 4'X4' RCBC
SEE STRUCTURE PLANS
C-22-1773
2-MCE REQ'D

STA 2523+63 TO STA 2561+95, LT
REMOVE FENCE

STA 2556+00 TO STA 2558+00, LT
CLEARING AND GRUBBING

STA 2563+00 TO STA 2563+92, LT
REMOVE FENCE

STA 2564+13.64 =
STA 215+00.00'MG'
CONSTRUCT MODIFIED TYPE D
INTERSECTION
SEE STANDARD DETAIL DRAWING
SEE PLAN AND PROFILE: MCGHAN RD

STA 2564+10, LT
CONSTRUCT AGG PE

STA 2563+00 TO STA 2563+92, LT
REMOVE FENCE

STA 2567+68
EXTEND EXISTING 3.5'X6' RCBC
SEE STRUCTURE PLANS
C-22-1774
2-MCE REQ'D

STA 2566+30 TO STA 2577+00, LT
REMOVE FENCE

STA 2576+73
CULVERT PIPE SALVAGE AND RELAY
24"-8' CPRC LT
EXTEND EXISTING 24" CPRC
1-24"X6' CPRC REQ'D LT
1-24"X4' CPRC REQ'D RT
2-CONCRETE COLLARS REQ'D
2-24" AECPRC REQ'D
2-MCE REQ'D

STA 2569+12, LT
CONSTRUCT AGG FE

STA 2579+23, LT
CONSTRUCT AGG PE

REMOVE GUARDRAIL
STA 2569+74 TO STA 2576+61, LT

SLOPE INTERCEPT

PROPOSED R/W

CITY OF
FENNIMORE-ELECTRIC

PC: 2552+92.97

PC: 2568+42.91

2565+68.05

BEGIN TAPER
STA 2555+50, 30' LT

END TAPER
STA 2562+50, 18' LT

STA 2562+50 LT
END PASSING LANE

IMPACTED
WETLANDS

WIN

CITY OF FENNIMORE
SANITARY

PROPOSED R/W

SLOPE INTERCEPT

IMPACTED
WETLANDS

CITY OF FENNIMORE
SANITARY

WIN

PROPOSED R/W

CAUTION

CITY OF
FENNIMORE-WATER

GRANTLAND
TELECOM LLC

STA 2576+61, RT
CONSTRUCT AGG FE

STA 2567+33, RT
CONSTRUCT AGG FE

STA 2569+12, RT
CONSTRUCT AGG FE

STA 2556+00 TO STA 2559+00, RT
ROCK EXCAVATION REQ'D

STA 2555+86 TO STA 2557+89, RT
REMOVE FENCE

WISCONSIN POWER &
LIGHT COMPANY

END CONSTRUCTION
STA 217+25.48'MG'
MATCH EXISTING
SAWCUT REQ'D

STA 2563+17
EXTEND EXISTING 24" CPCS
1-24"X4' CPCS REQ'D RT
2-24" AECPS REQ'D
2-MCE REQ'D

STA 2553+87, RT
CONSTRUCT ASPH CE
SAWCUT REQ'D

MATCHLINE 2549+80.00

MATCHLINE 2580+20.00

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 102	2576+67.22, 17.48' LT	POLE BARN SPIKE	1114.659

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP 101	2586+73.54, 46.58' LT	12" SPIKE	1163.114

STA 2581+07, LT
CONSTRUCT AGG FE

STA 2589+36, LT
CONSTRUCT ASPH CE
SAWCUT REQ'D

STA 2594+15, LT
CONSTRUCT ASPH PE
SAWCUT REQ'D

PT: 2584+32.09

EXIST R/W

SLOPE INTERCEPT

CITY OF
FENNIMORE-ELECTRIC

WIN

EXIST R/W

CITY OF
FENNIMORE-WATER

SLOPE INTERCEPT

GRANTLAND
TELECOM LLC

END PROJECT
STA 2594+24.00
MATCH EXISTING CONC PAVEMENT
SAWCUT REQ'D

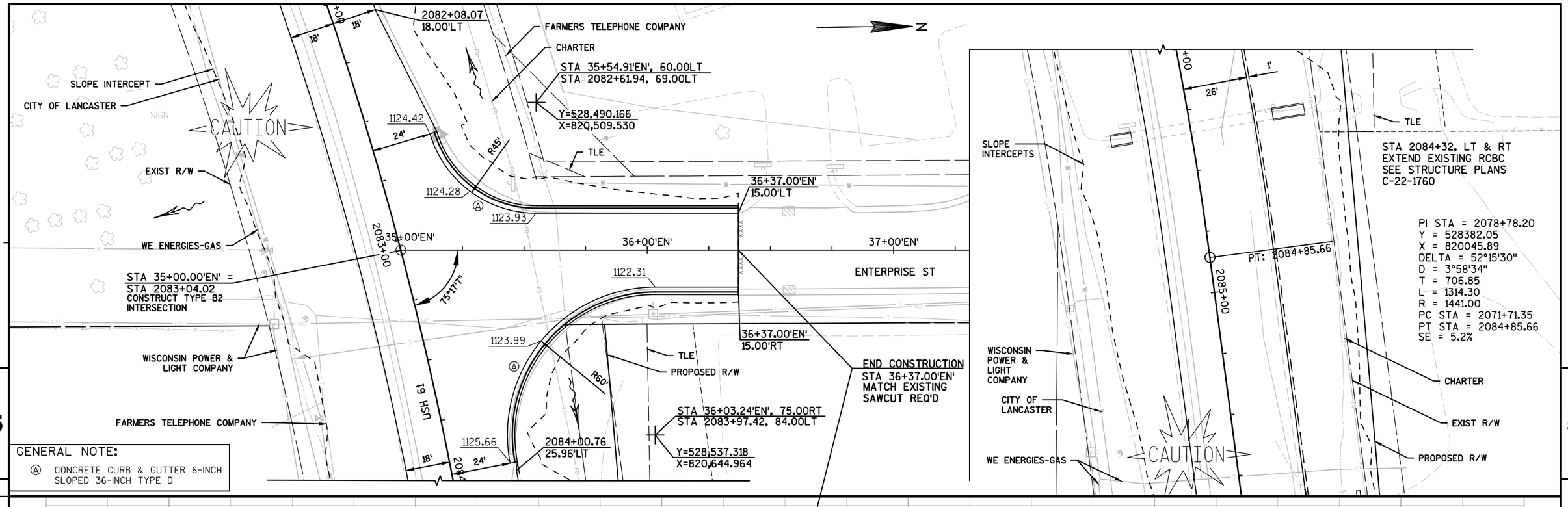
STA 2578+00 TO STA 2583+00, RT
ROCK EXCAVATION REQ'D

STA 2584+57, RT
CONSTRUCT AGG FE

STA 2592+88, RT
CONSTRUCT CONC PE
SAWCUT REQ'D

MATCHLINE 2580+20.00

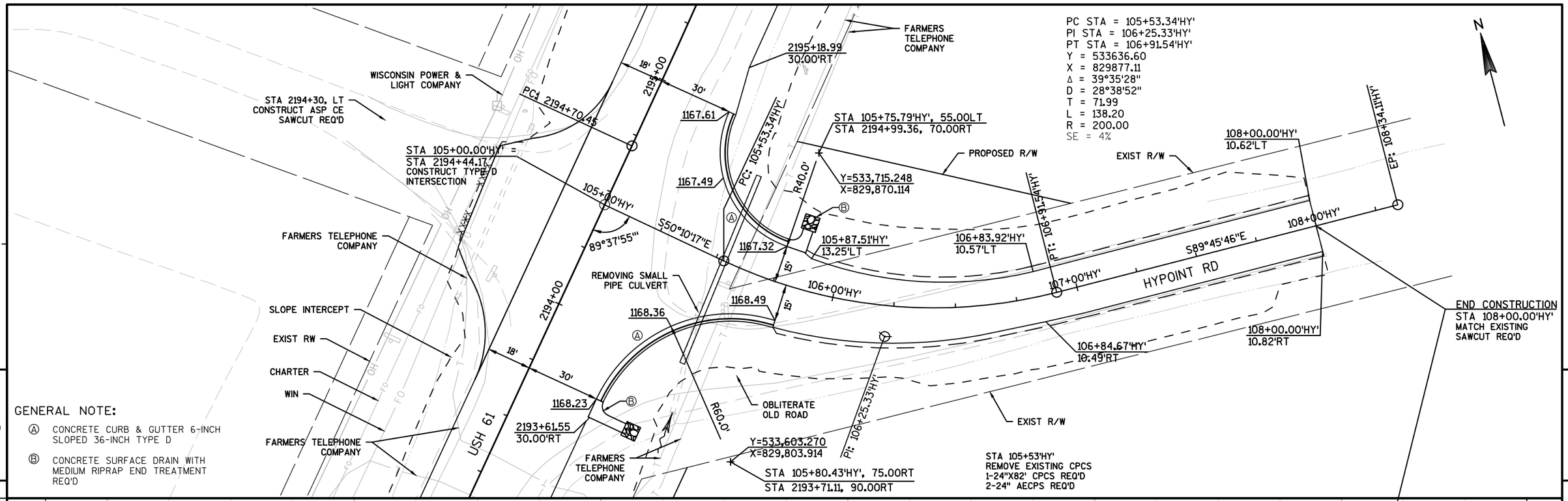
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN: USH 61	SHEET 108	E

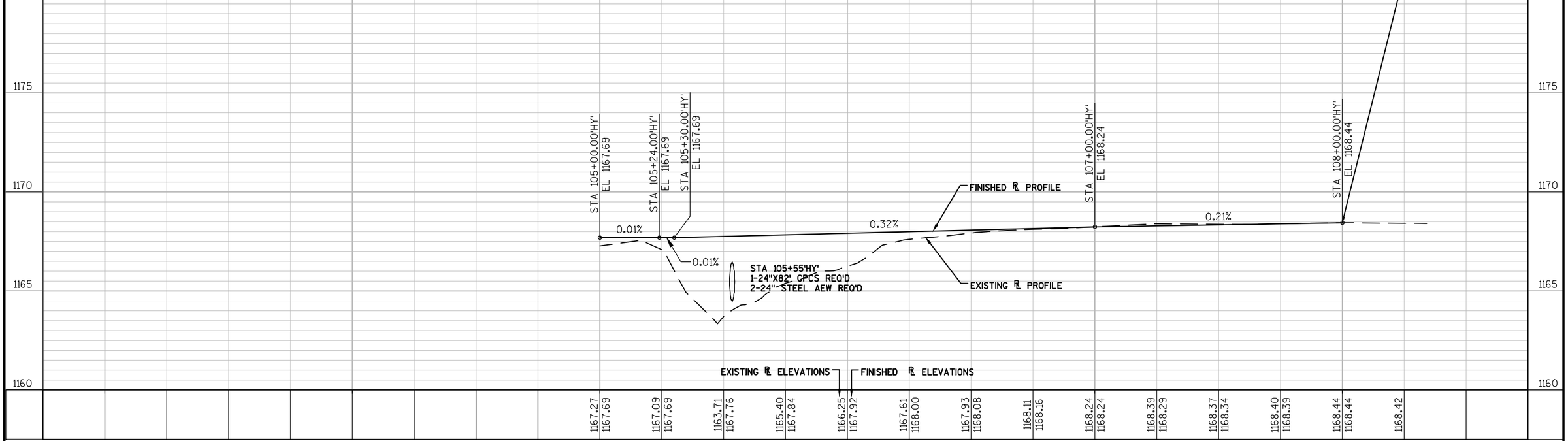


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: ENTERPRISE ST	SHEET 109 E

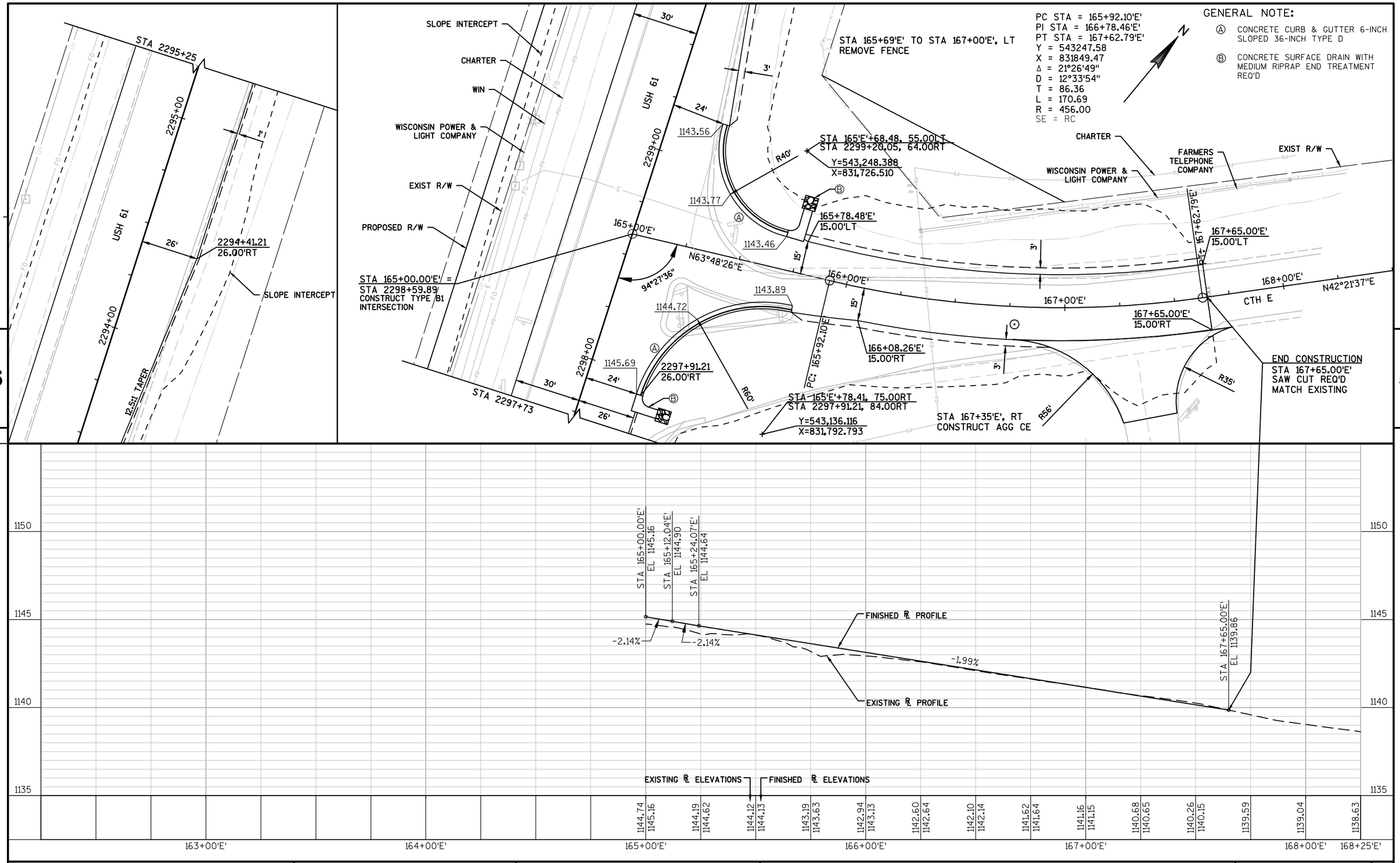
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050107_PP.DWG PLOT DATE : 12/12/2016 11:03 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44



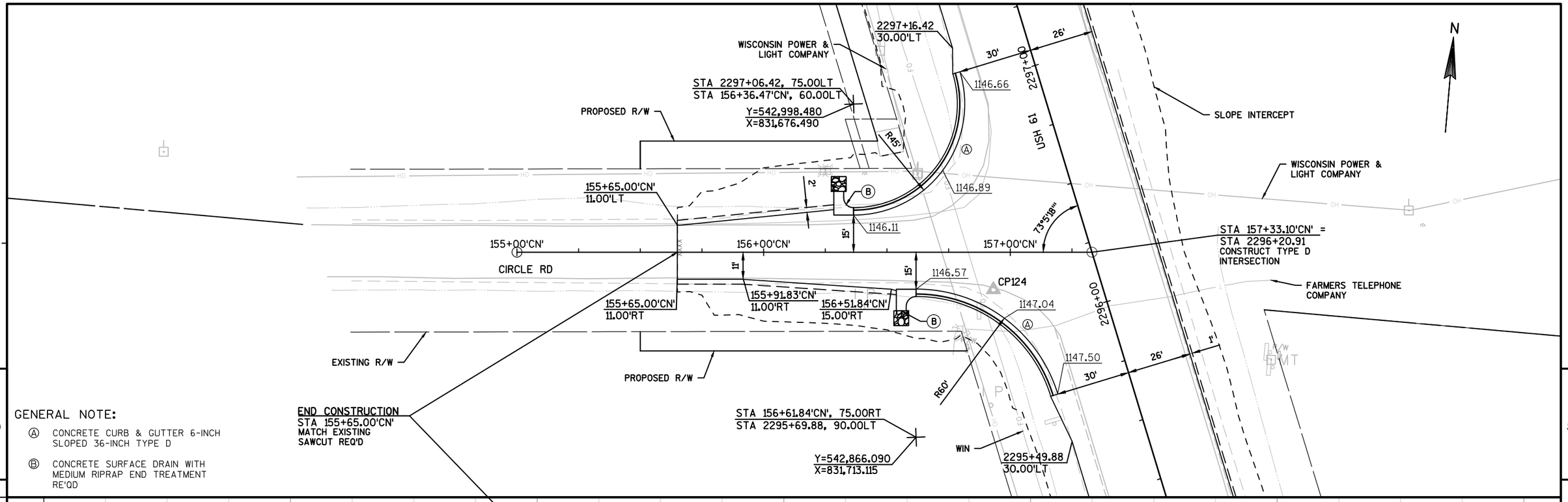


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: HYPOINT ROAD	SHEET 110	E

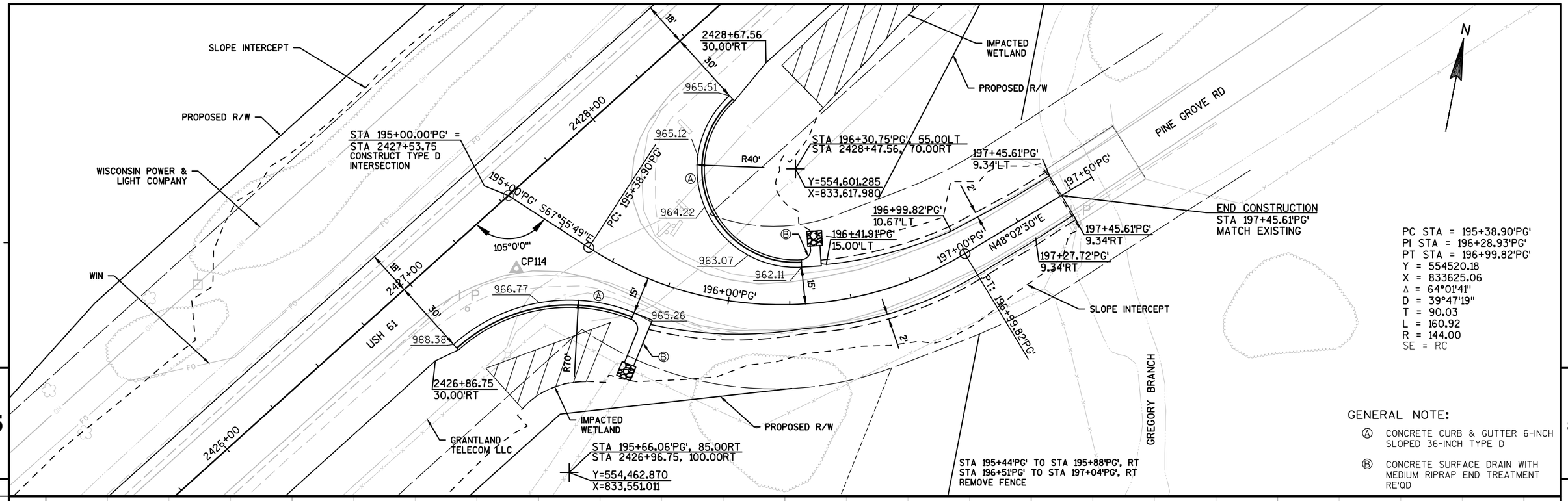


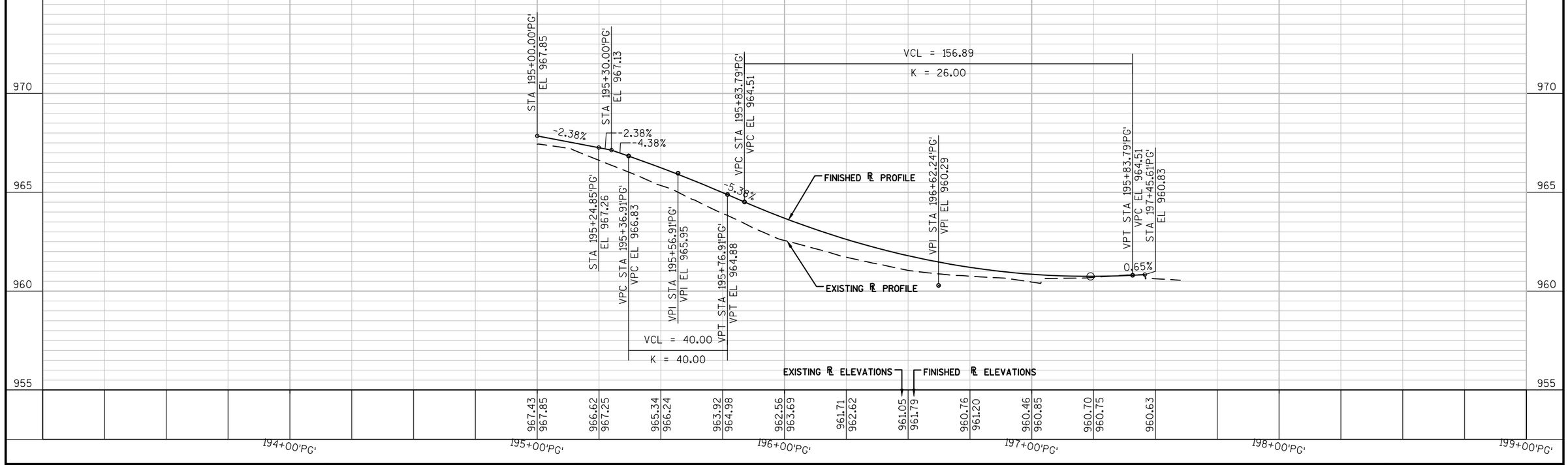
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: CTH E	SHEET 111	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050103_PP.DWG
PLOT DATE : 12/12/2016 10:27 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44

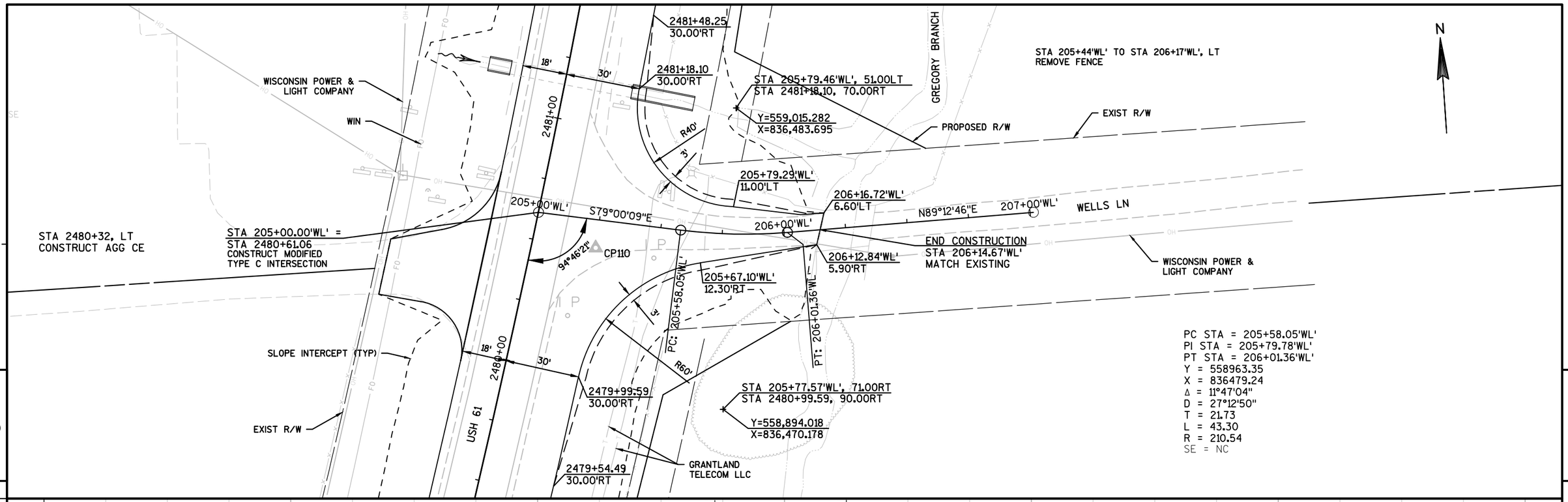


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: CIRCLE RD (NORTH)	SHEET 112	E





PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: PINE GROVE RD	SHEET 113	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: WELLS LN	SHEET 114	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\050106_PP.DWG PLOT DATE : 12/12/2016 12:21 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:40_XREF

Y=566,933.784
X=834,603.944

STA 215+43.71'MG', 55.00LT
STA 2564+62.51, 58.00RT

STA 215+78'MG' TO STA 217+08'MG', LT
REMOVE FENCE

N

EXIST R/W

CITY OF FENNIMORE

PT: 2565+68.05

2564+82.51
18.00'RT

REMOVE SMALL PIPE CULVERT

215+53.71'MG'
15.00'LT

215+99.37'MG'

217+25.48'MG'
12.00'LT

215+99.37'MG'
216+00'MG' 14.16'LT

217+00'MG'

S88°13'47"E

MCGHAN RD

WISCONSIN POWER & LIGHT COMPANY

CP103

1064.38

R40'

BC: 215+17.57'MG'

1065.23

1064.75

1079.73

1075.01

CC3

CONCRETE MEDIAN SLOPED NOSE TYPE 1

1066.57

1065.09

1069.29

217+25.48'MG'
12.01'RT

R100'

CITY OF FENNIMORE-ELECTRIC

SLOPE INTERCEPT

GENERAL NOTES:

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

Ⓑ CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J

Ⓒ ISLAND CORNER (SEE ISLAND CORNER DETAIL)

Ⓓ ASPHALTIC SURFACE SAFETY ISLANDS

Ⓔ CONCRETE SURFACE DRAIN WITH MEDIUM RIPRAP END TREATMENT REQ'D

STA 215+00.00'MG'
STA 2564+13.64
CONSTRUCT MODIFIED TYPE D INTERSECTION

215+00'MG'

CC1

90°00'

CC2

216+00.78'MG'
41.75'RT

PROPOSED R/W

END CONSTRUCTION
STA 217+25.48'MG'
MATCH EXISTING
SAWCUT REQ'D

EXIST R/W

CAUTION

WISCONSIN POWER & LIGHT COMPANY

1063.90

Y=566,826.607
X=834,709.861

STA 216+26.66'MG', 72.25RT
STA 2563+14.43, 58.00RT

PC STA = 215+17.57'MG'
PI STA = 215+60.92'MG'
PT STA = 215+99.37'MG'
Y = 566901.01
X = 834641.49
Δ = 46°52'12"
D = 57°17'45"
T = 43.35
L = 81.80
R = 100.00

EXISTING DRIVEWAY CULVERT TO REMAIN

USH 61

1062.63

Y=566,779.502
X=834,747.121

STA 2562+55.55, 53.27RT
STA 216+65.36'MG', 118.18RT

WIN

GRANTLAND TELECOM LLC

PROPOSED R/W

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	2563+95.20 215+21.22'MG'	20.59' 18.50'	2.5'R	Y=566859.309 X=834626.133
CC2	2563+56.49 215+27.35'MG'	22.24' 57.33'	2.5'R	Y=566832.640 X=834654.589
CC3	2563+78.43 215+85.77'MG'	69.77' 17.50'	1.5'R	Y=566881.758 X=834673.070

VCL = 40.00'
K = 4.38

STA 215+00.00'MG'
EL 1063.20

STA 215+12.00'MG'
EL 1063.63

VPC STA 215+20.00'MG'
VPC EL 1063.92

VPI STA 215+40.00'MG'
VPI EL 1064.64

VPT STA 215+20.00'MG'
VPC EL 1063.92

STA 215+18.00'MG'
EL 1063.85

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

12.74%

3.60%

SEE STORM SEWER PLANS FOR DETAILS

STA 217+25.48'MG'
EL 1088.27

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

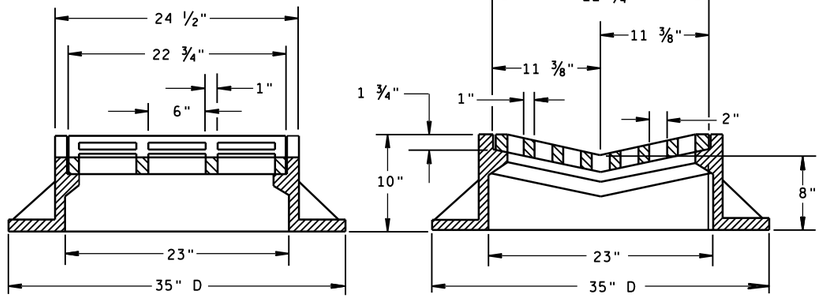
214+00'MG'		215+00'MG'		216+00'MG'		217+00		218+00		219+00
1062.78	1063.20	1062.99	1064.13	1063.90	1066.03	1066.81	1069.10	1070.08	1072.28	1073.60	1075.47	1077.34	1078.65	1080.86	1081.84	1084.62	1085.02	1088.20	1088.21	1091.66

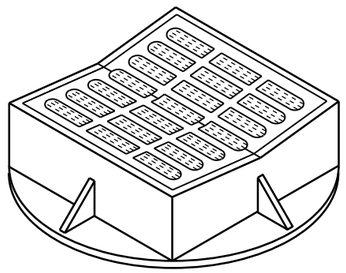
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	PLAN AND PROFILE: MCGHAN RD	SHEET 115	E

Standard Detail Drawing List

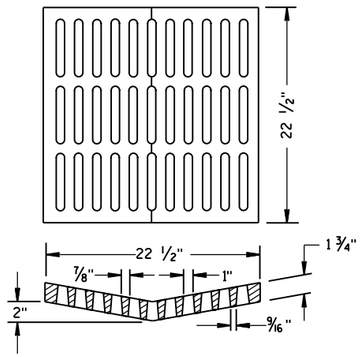
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C09-01	INLETS MEDIAN 3 AND 4 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

6



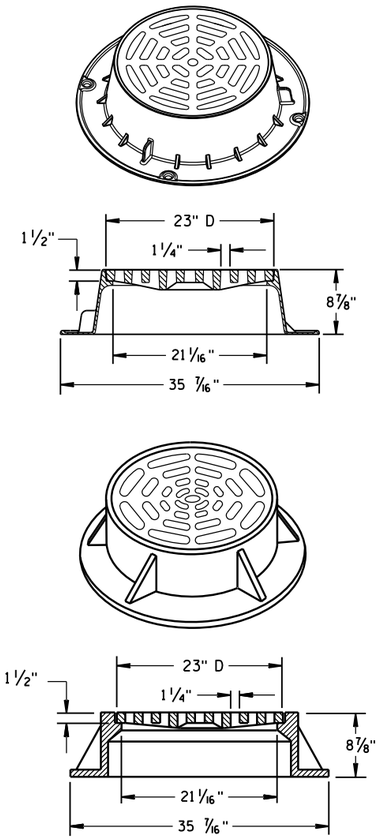


TYPE "B"



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"

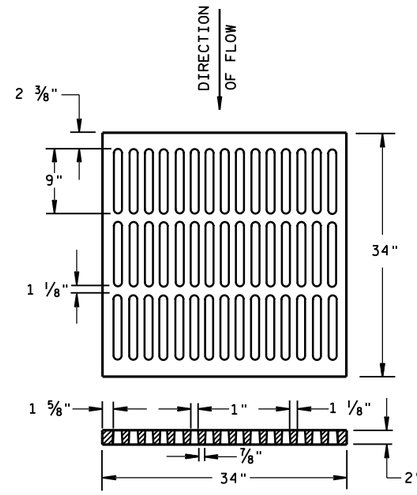
NOTE: EITHER CASTING IS ACCEPTABLE

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.

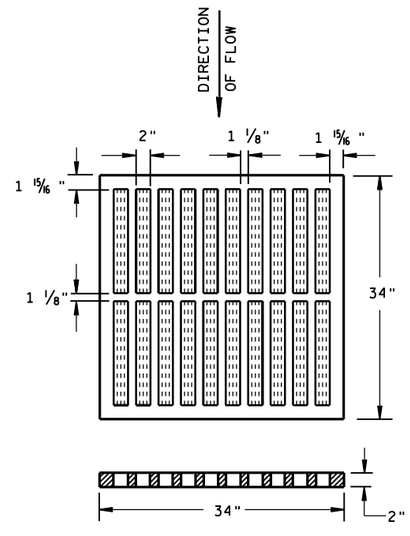
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



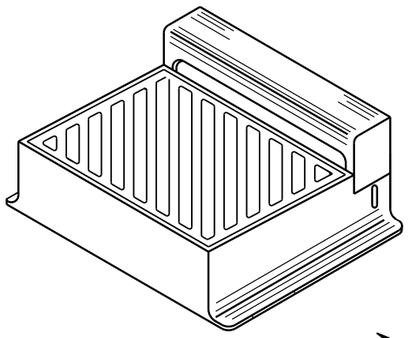
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

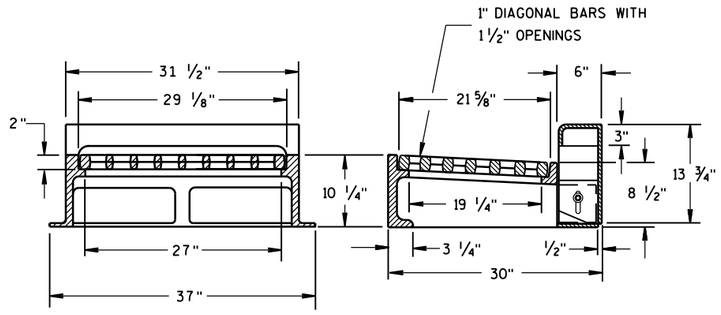


TYPE "MS"

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"

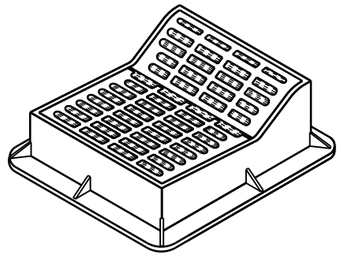
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

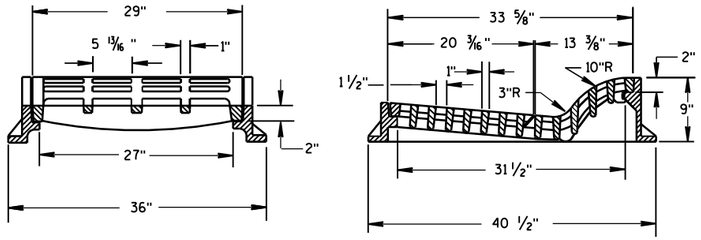
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

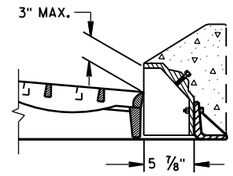
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

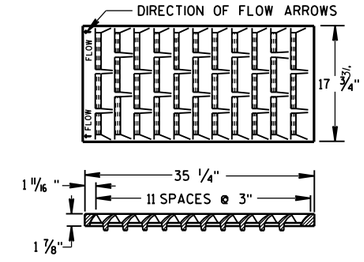
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

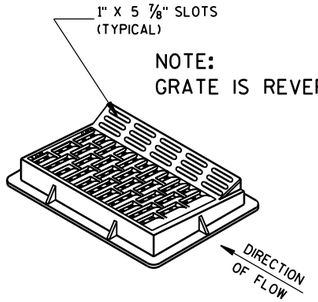
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

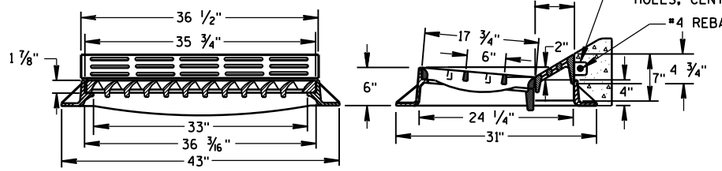
GENERAL NOTES

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.



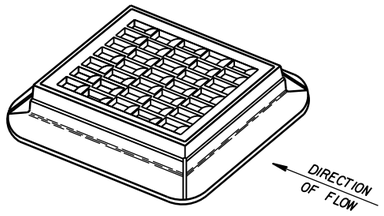


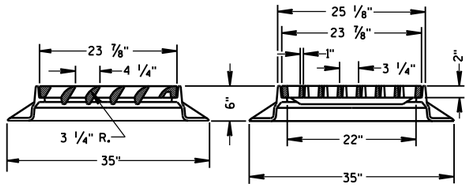


TYPE "HM"

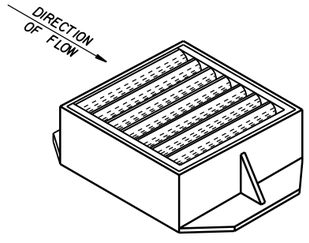
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

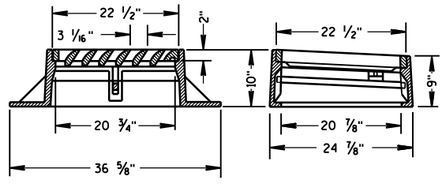
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



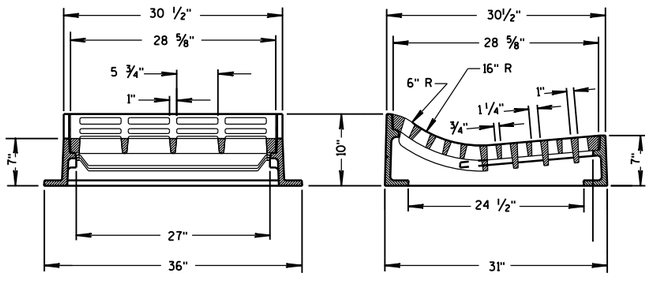


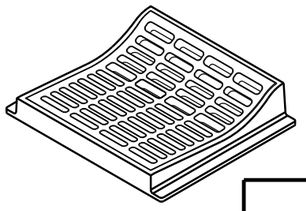
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

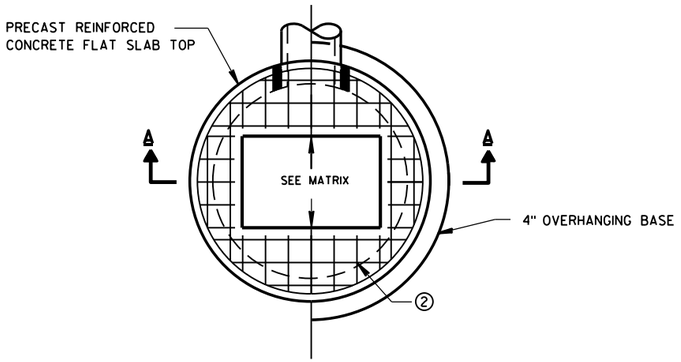
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

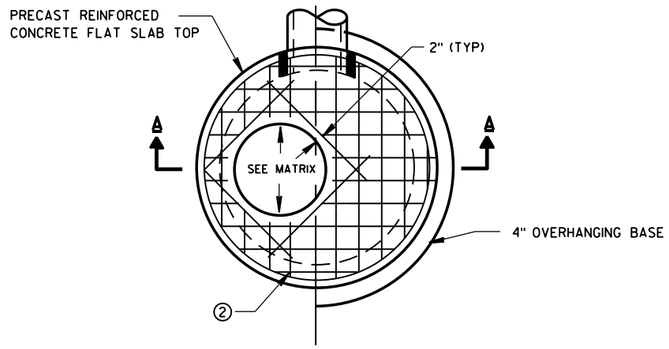
FHWA

6

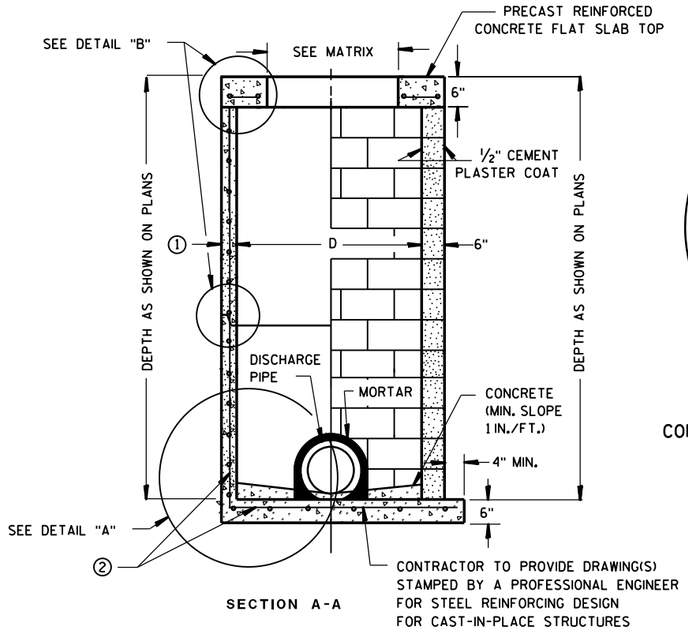
S.D.D. 8 A 5-19c



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

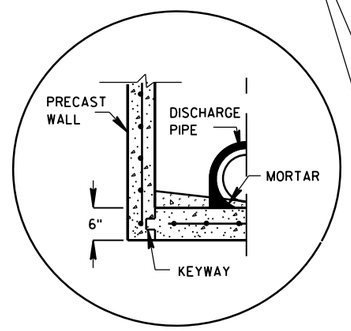


SECTION A-A

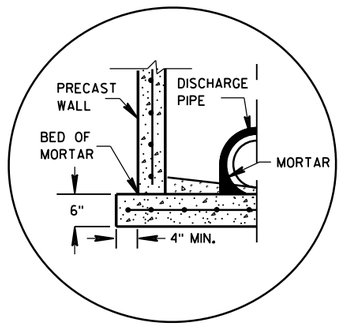
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

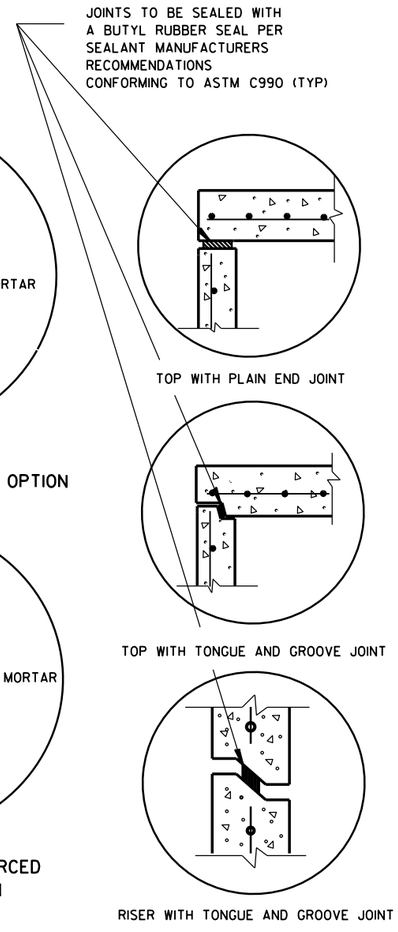


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR 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.

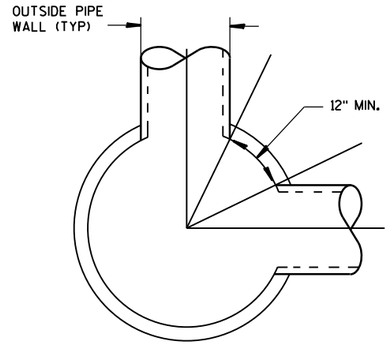
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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 SIZE	INLET COVER TYPE / OPENING SIZE (FT)	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
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

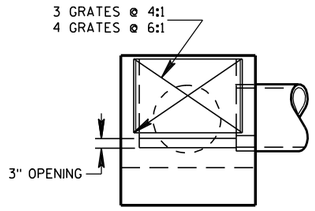
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

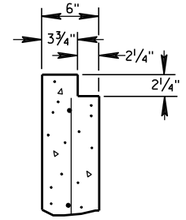
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

INLETS 3-FT AND 4-FT DIAMETER

6
S.D.D. 8 C 6-1



SECTION B-B



SECTION C-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.

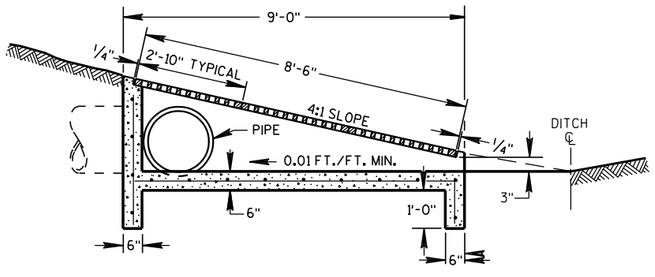
UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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.

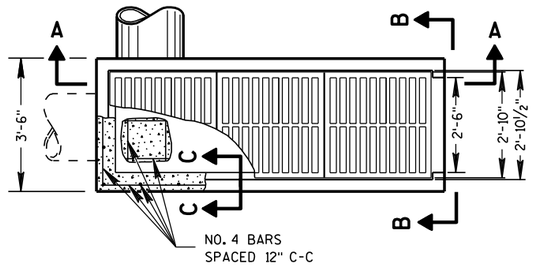
ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 3G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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 ASTM C 913.

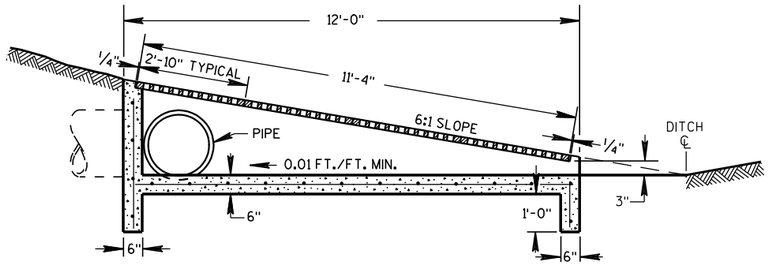


SECTION A-A

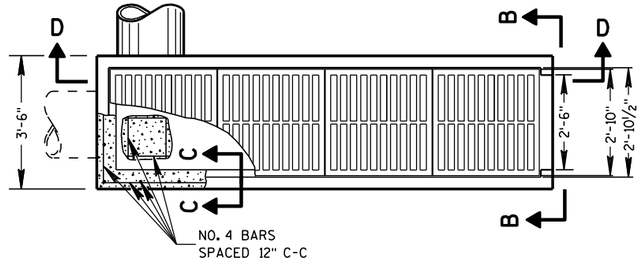


PLAN VIEW

INLETS MEDIAN 3 GRATE



SECTION D-D



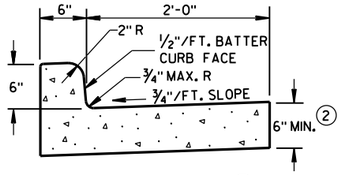
PLAN VIEW

INLETS MEDIAN 4 GRATE

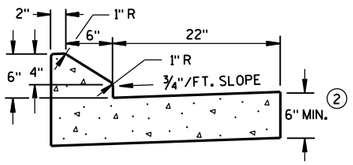
INLETS MEDIAN 3 AND 4 GRATE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/5/2012 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEV ENGINEER

6

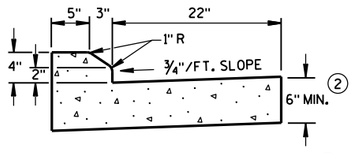
S.D.D. 8 C 9-1



TYPES A & D ①

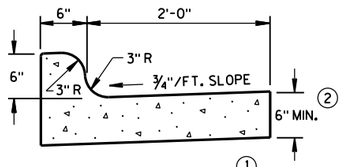


6" SLOPED CURB TYPES G & J ①

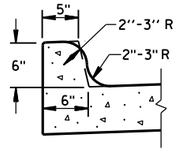


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

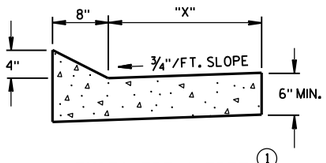


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

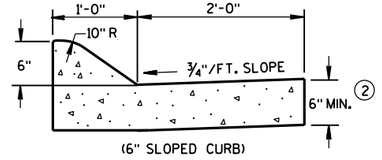
CONCRETE CURB & GUTTER 30"



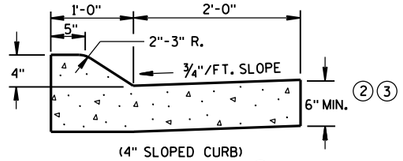
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

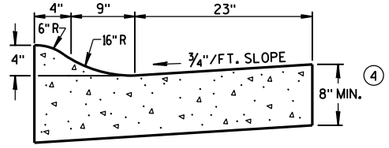


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

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

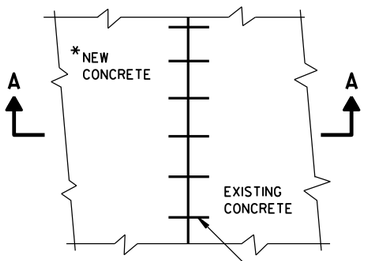
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

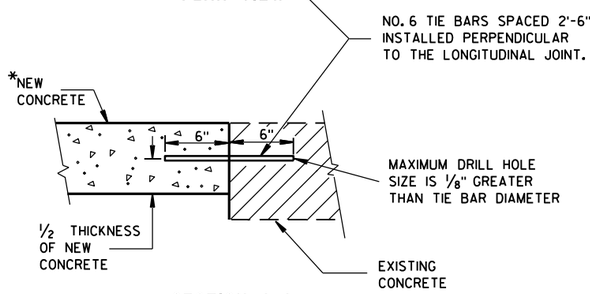
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



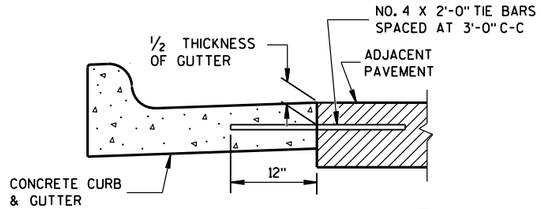
PLAN VIEW

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

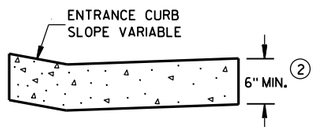


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

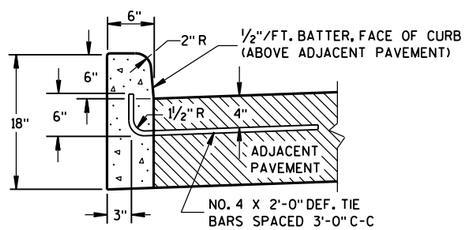


TYPICAL TIE BAR LOCATION ①

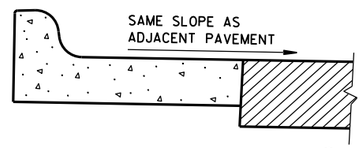


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

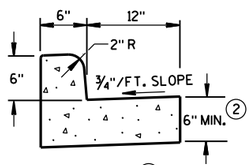


① TYPES A & D



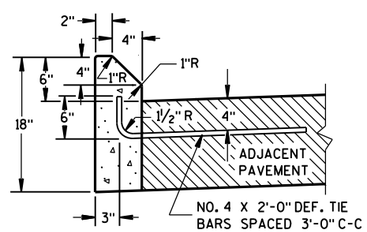
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



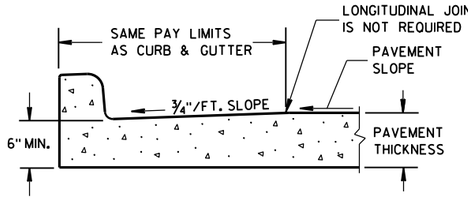
① TYPES A & D

CONCRETE CURB & GUTTER 18"

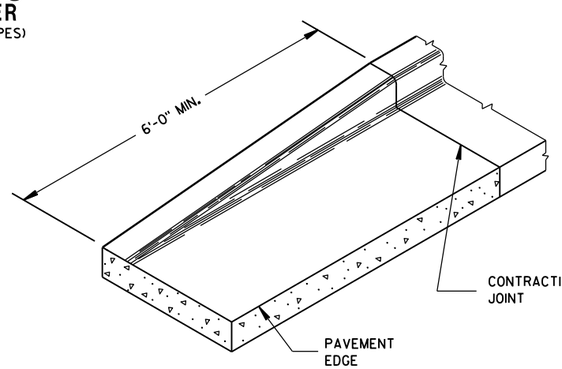


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

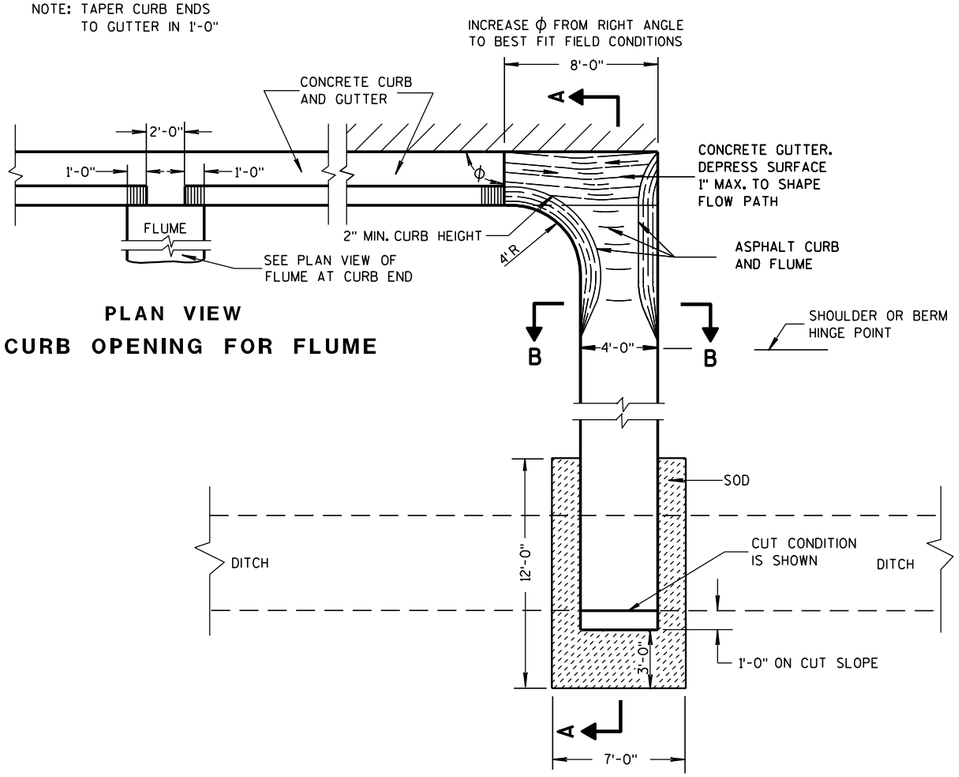
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

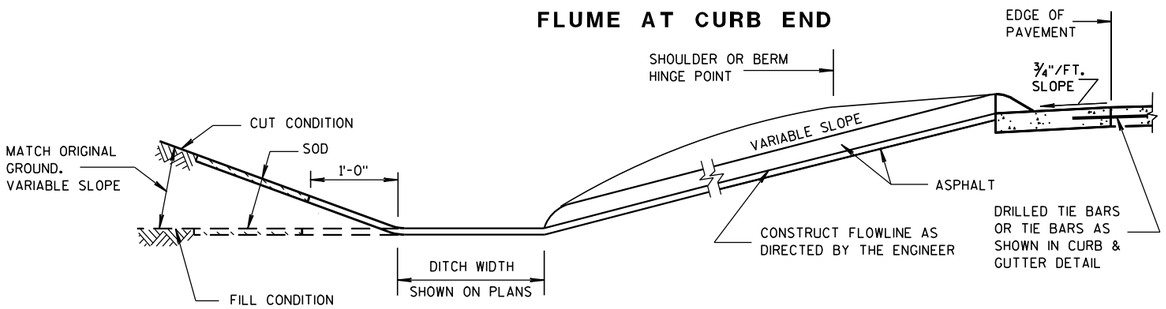
S.D.D. 8 D 1-19

ASPHALTIC FLUME

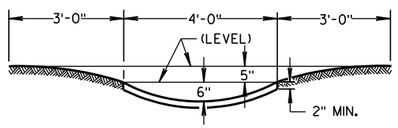


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

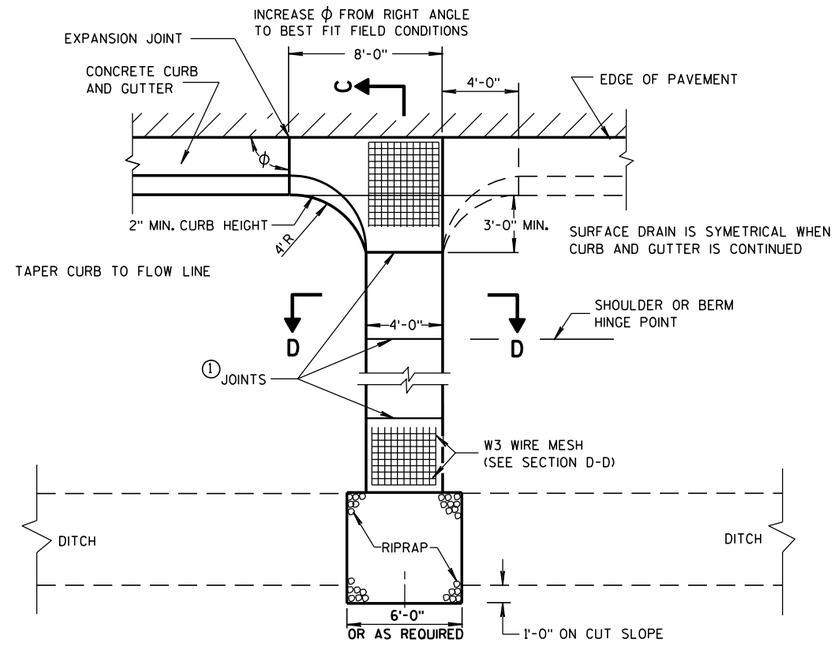
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

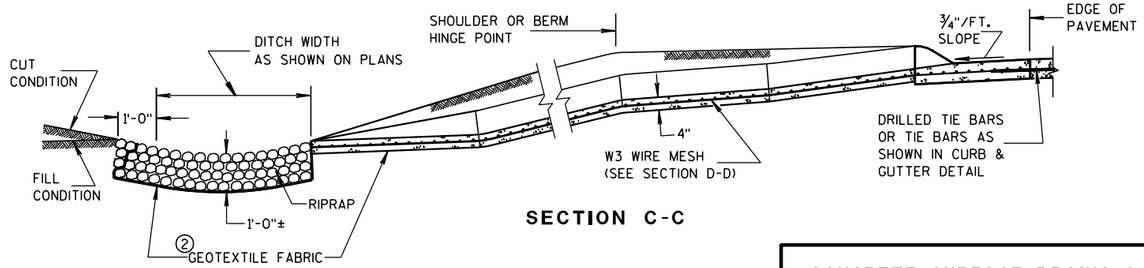
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

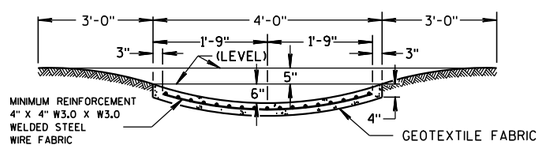
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

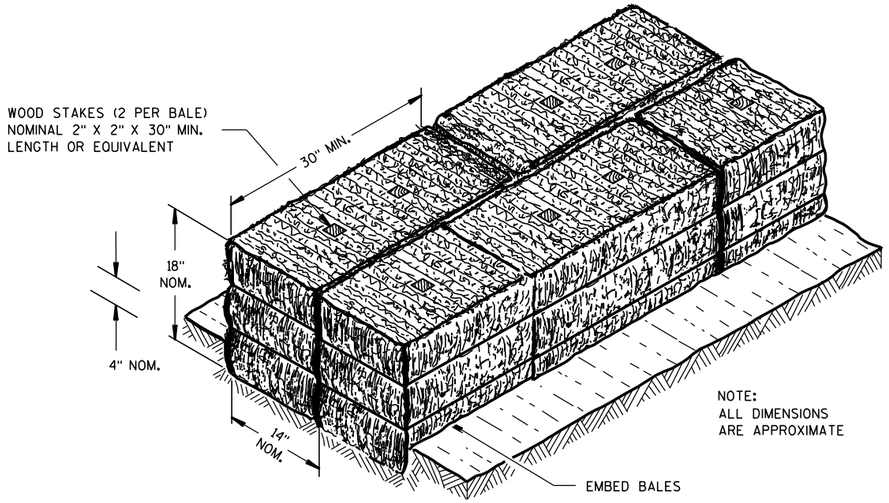
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

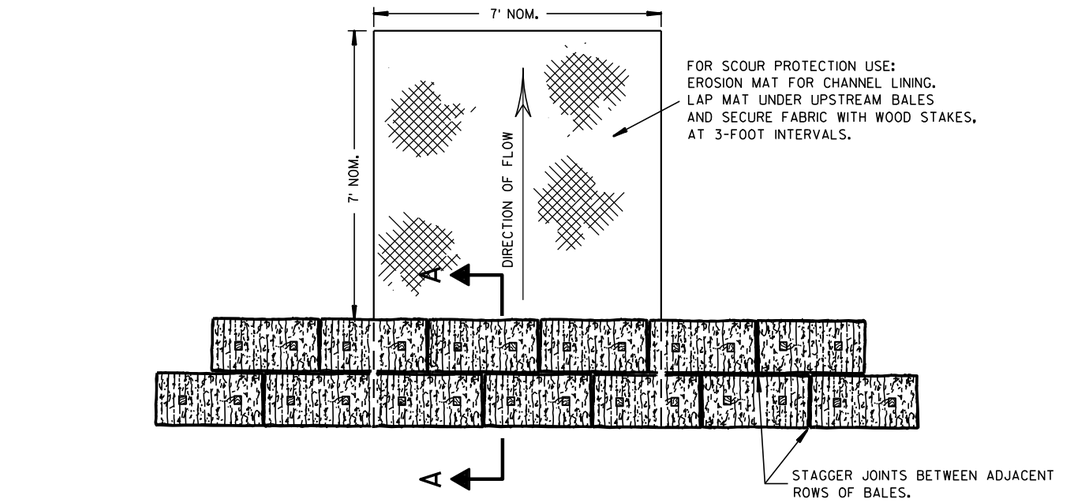
S.D.D. 8 D 4-5

6

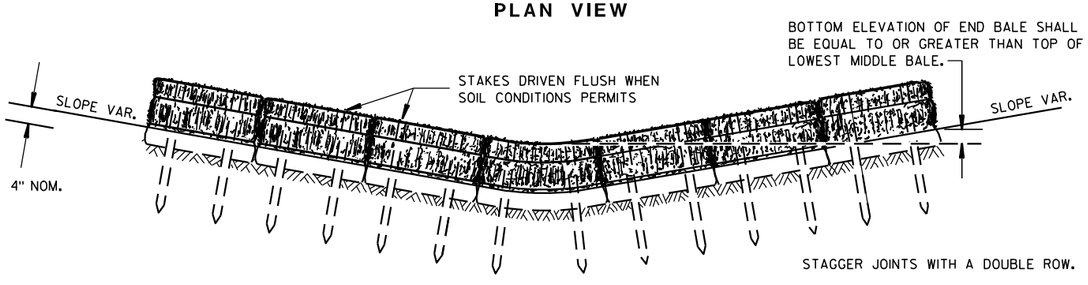
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



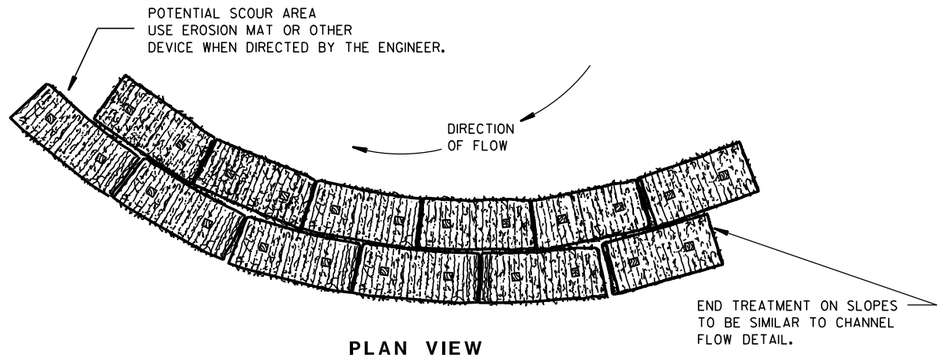
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

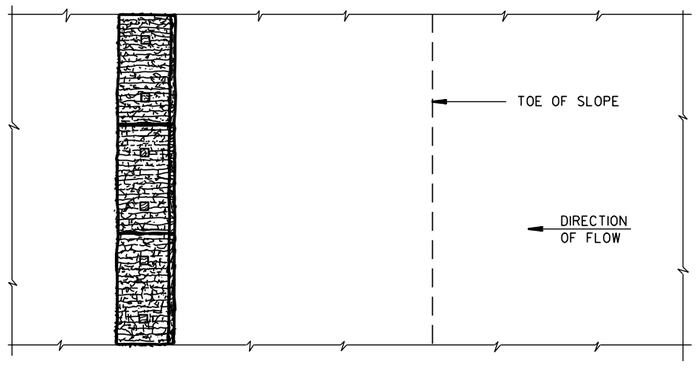
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

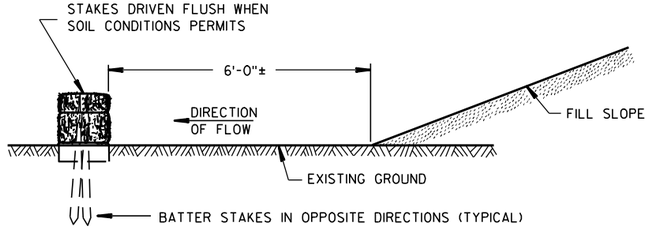


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

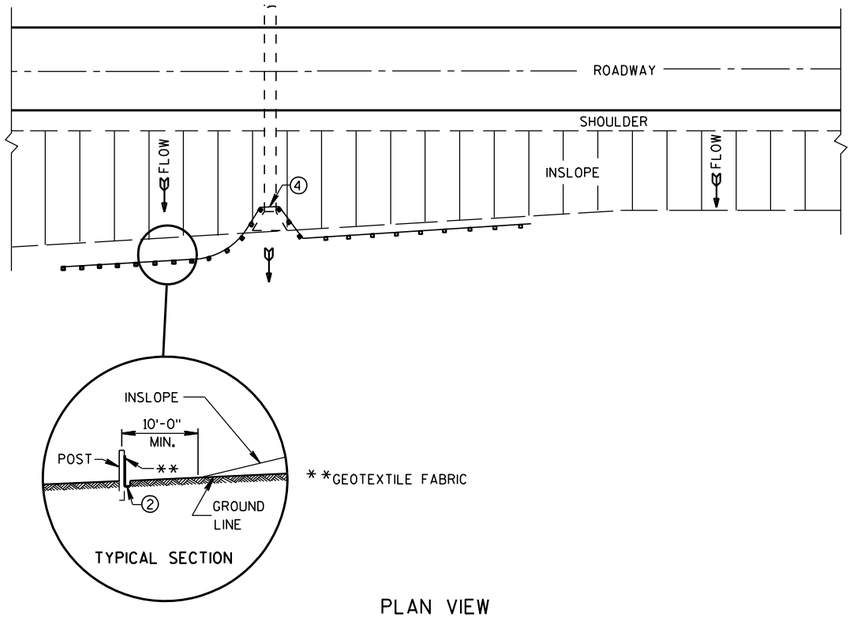
APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

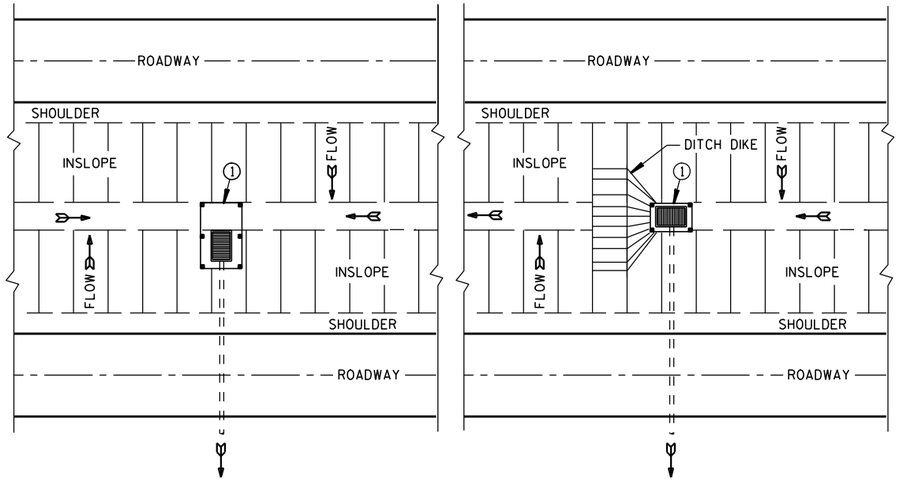
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



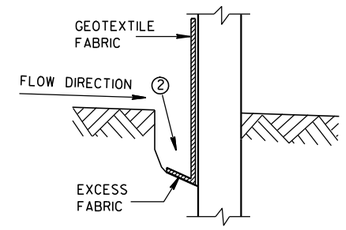
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

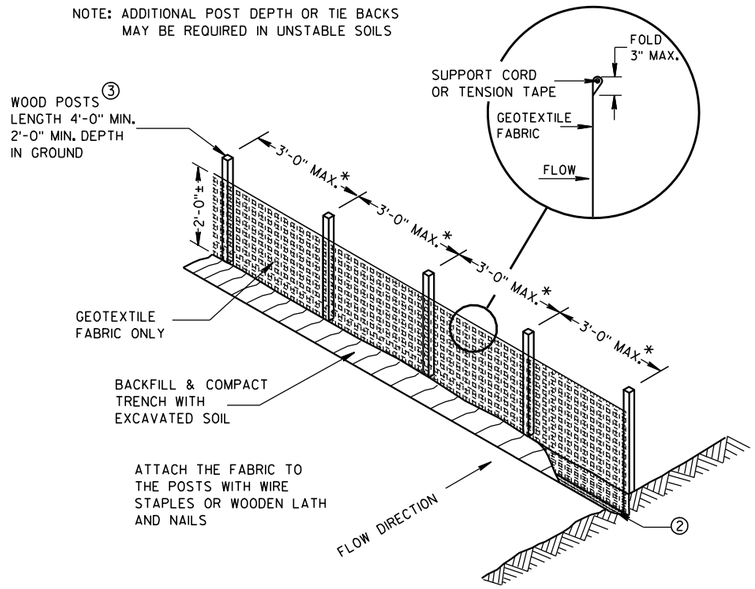
GENERAL NOTES

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

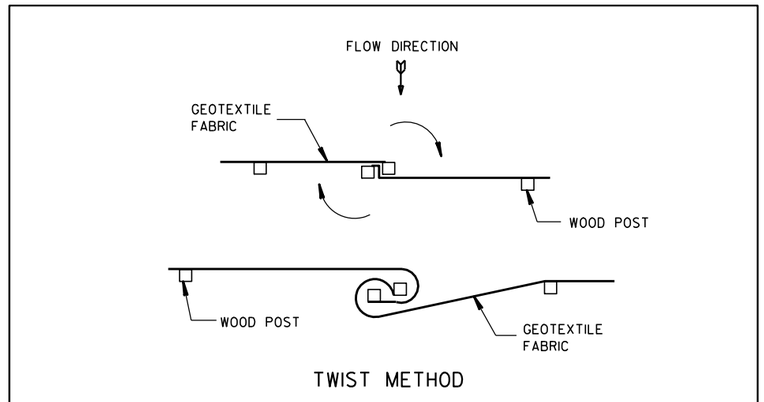
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



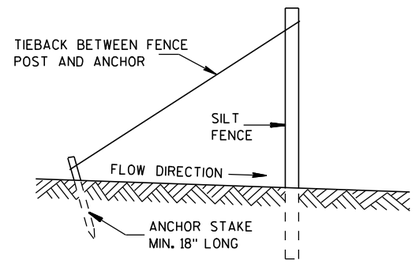
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

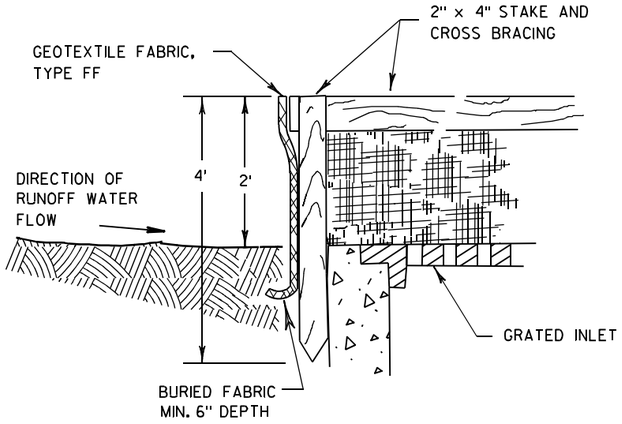
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

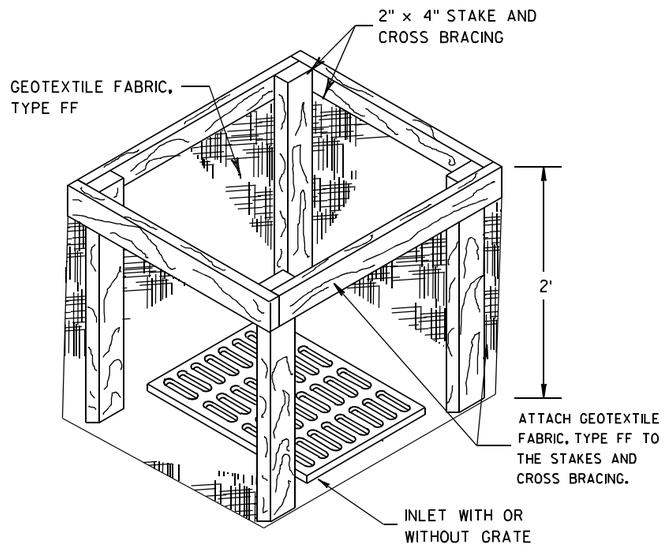
6

S.D.D. 8 E 9-6

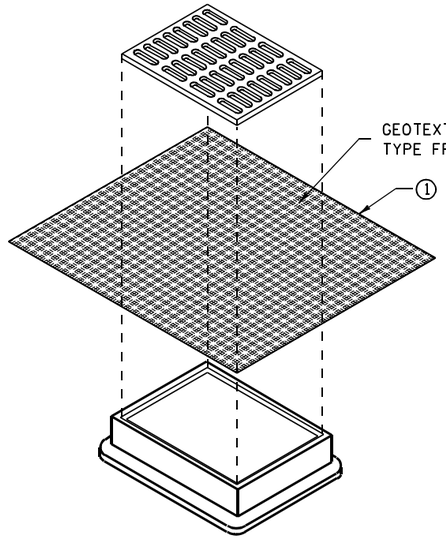
6

S.D.D. 8 E 9-6



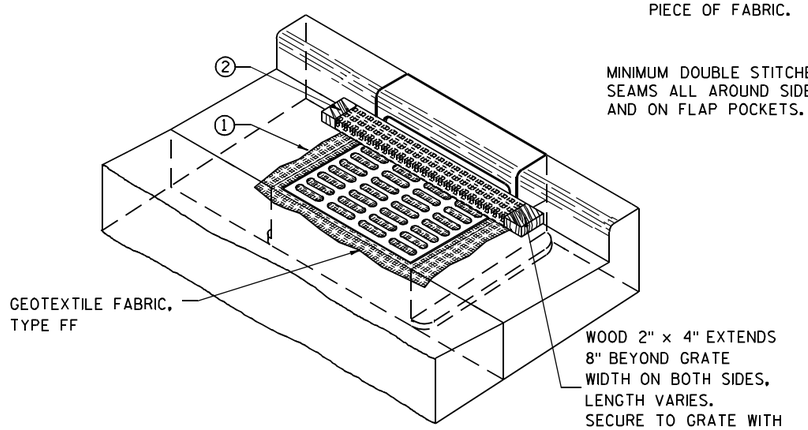


INLET PROTECTION, TYPE A

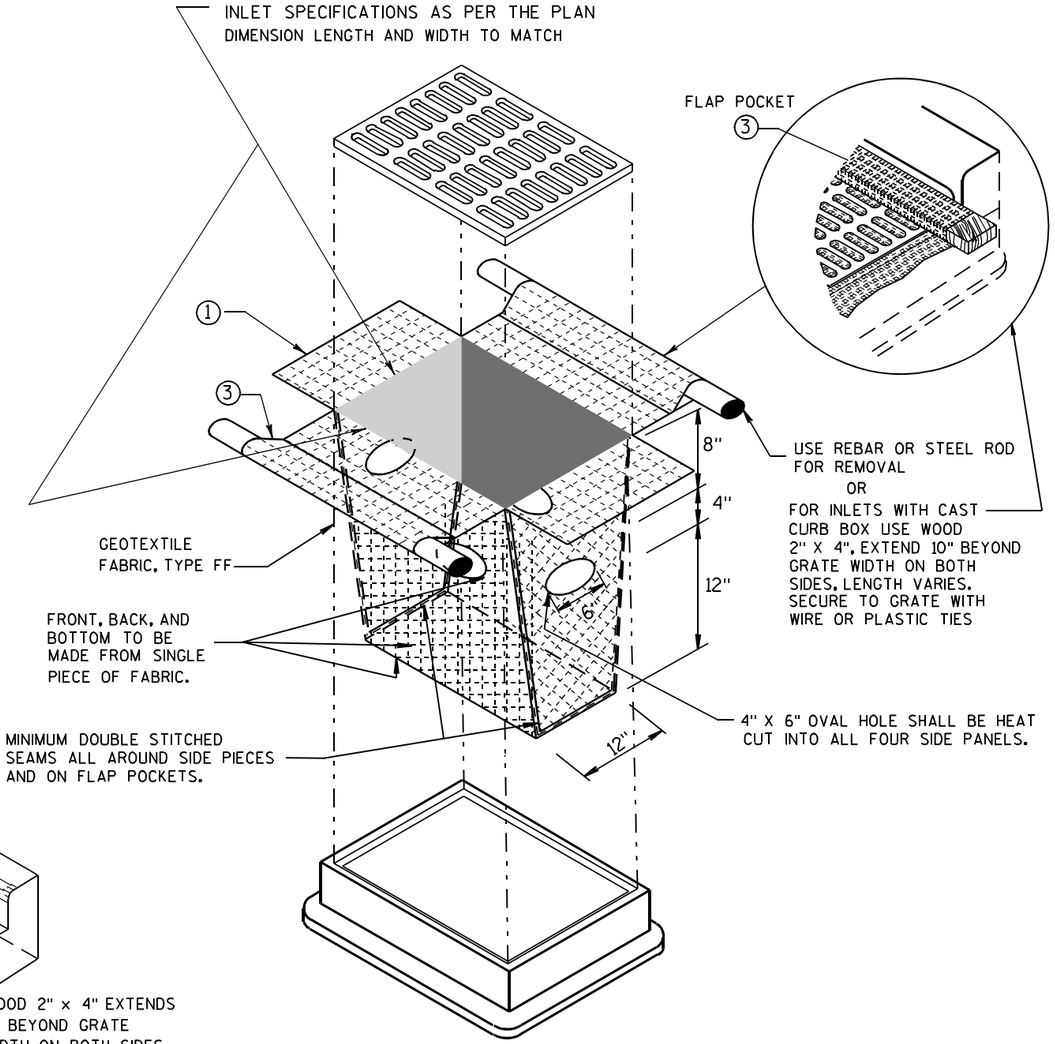


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

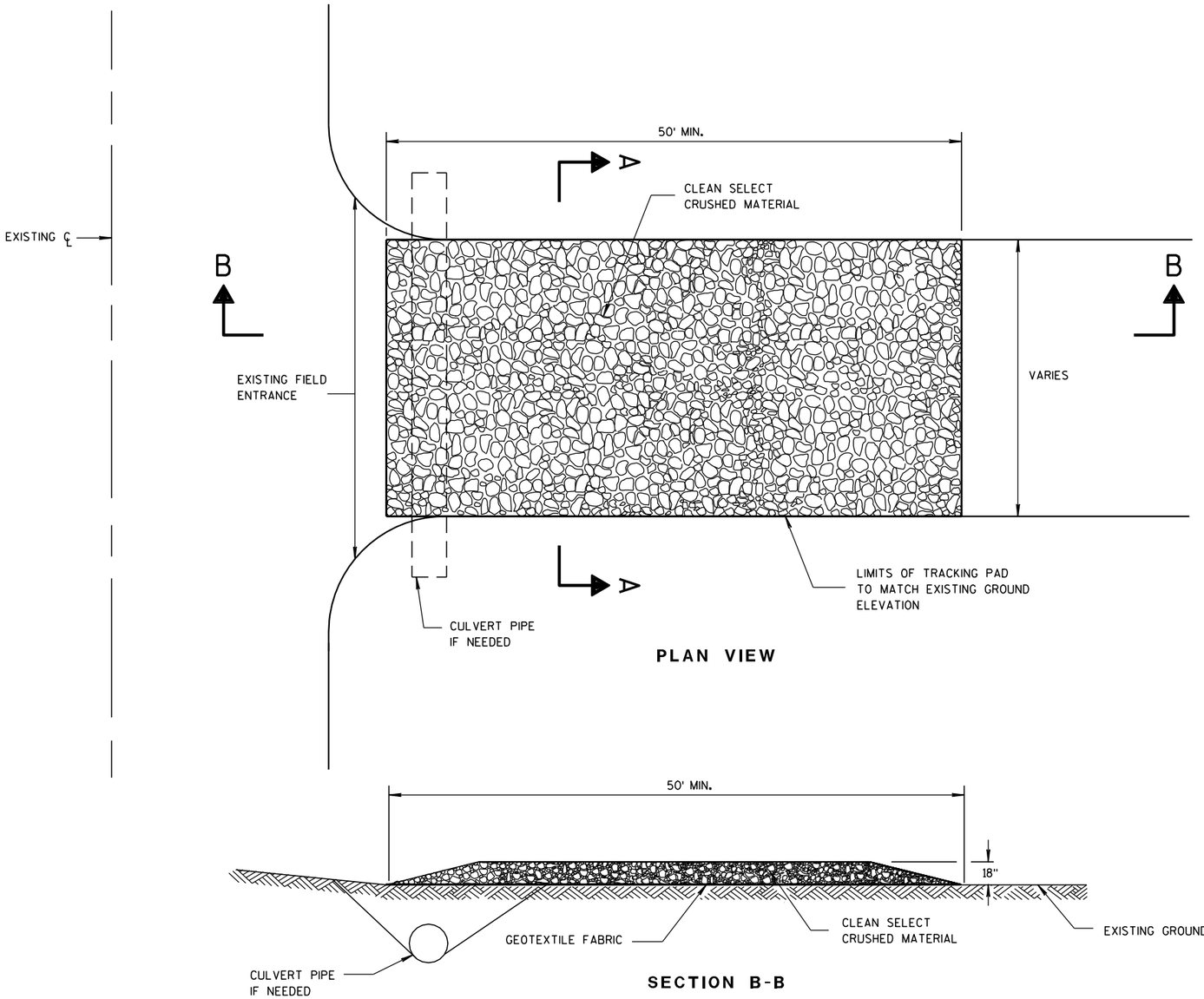
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



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.

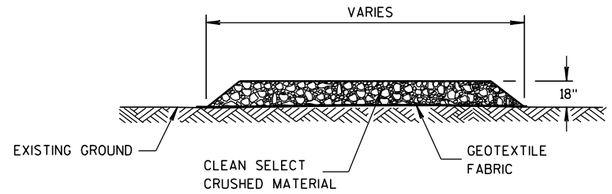
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

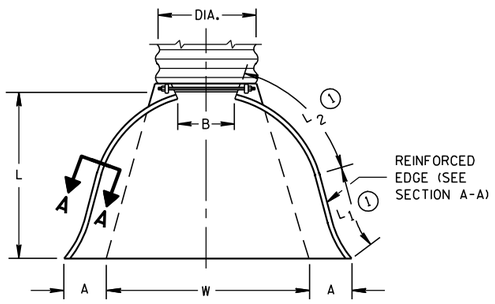
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

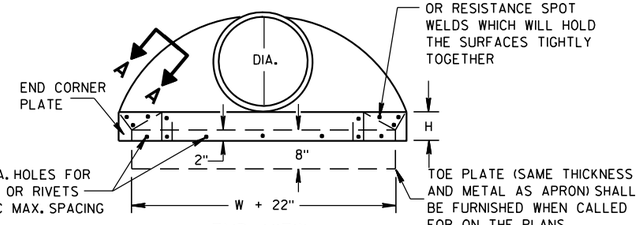
REINFORCED CONCRETE APRON ENDWALLS

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

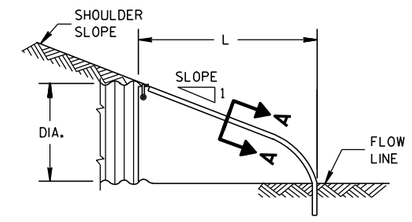
*MINIMUM
**MAXIMUM



PLAN VIEW

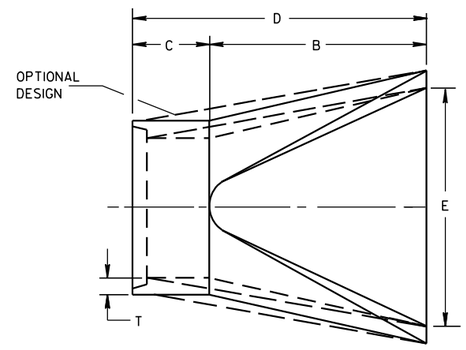


END VIEW

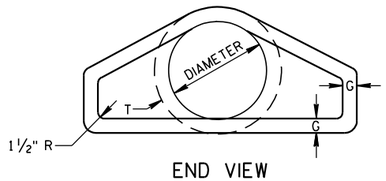


SIDE ELEVATION

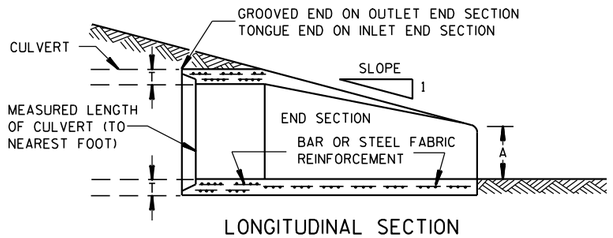
METAL ENDWALLS



PLAN

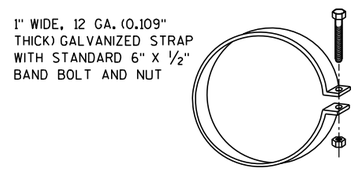


END VIEW



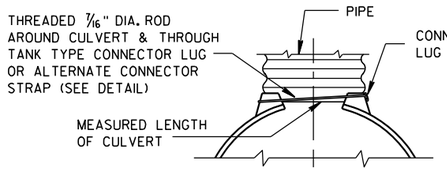
LONGITUDINAL SECTION

CONCRETE ENDWALLS

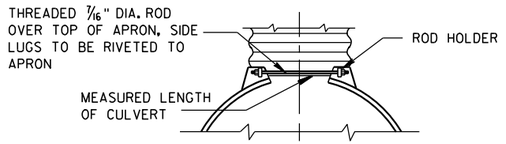


ALTERNATE FOR TYPE 1 CONNECTION

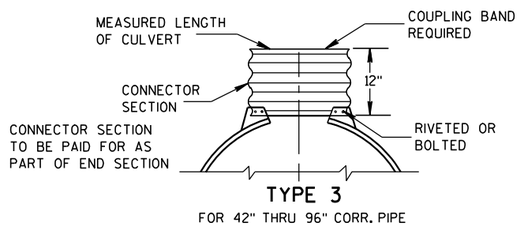
END SECTION CONNECTOR STRAP



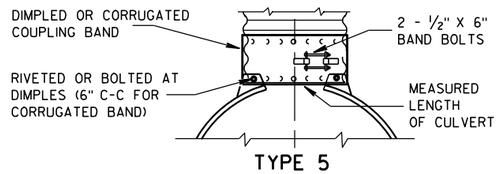
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

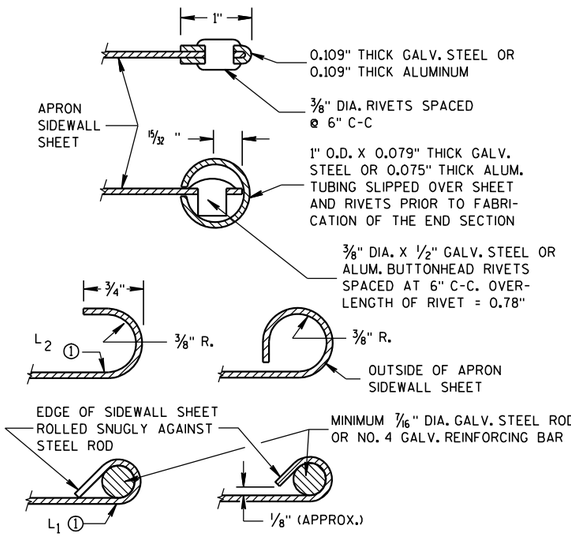
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

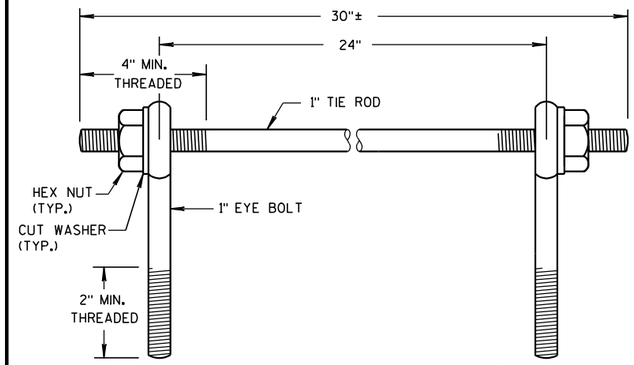
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

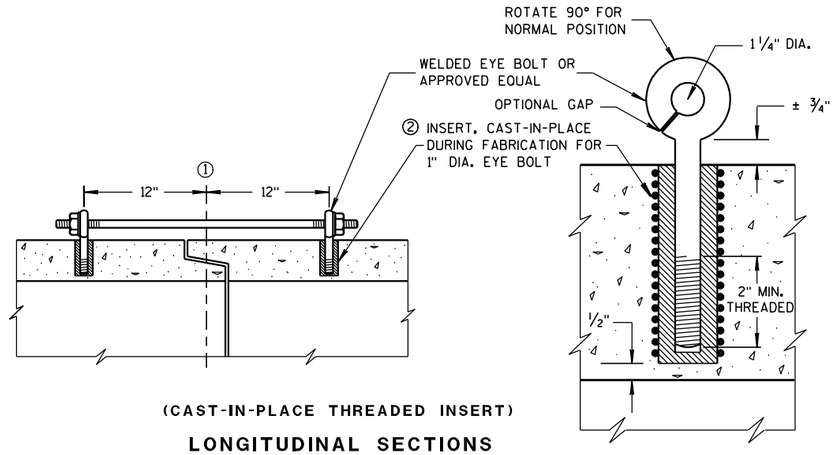
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

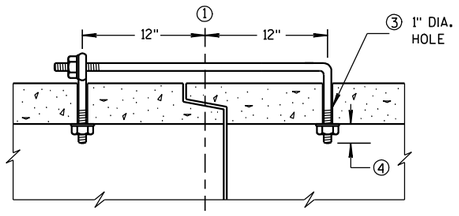
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

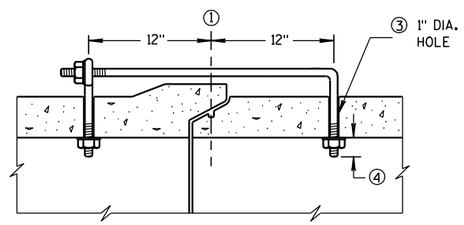
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

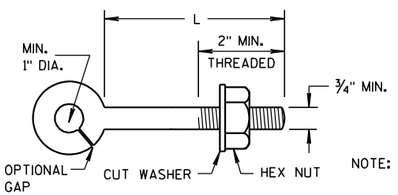


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

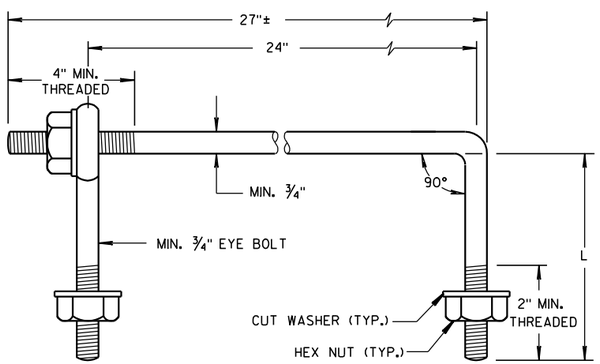
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

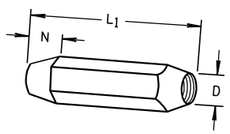
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

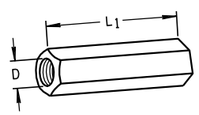
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



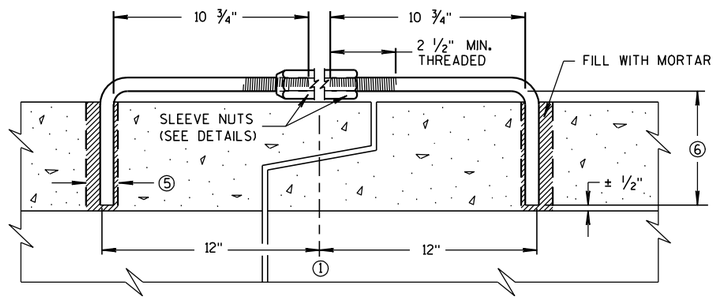
TAPERED



PLAIN

RIGHT AND LEFT THREADS

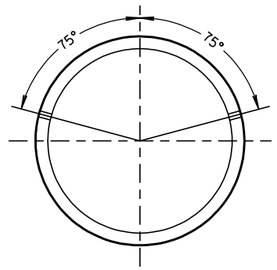
SLEEVE NUTS



LONGITUDINAL SECTION

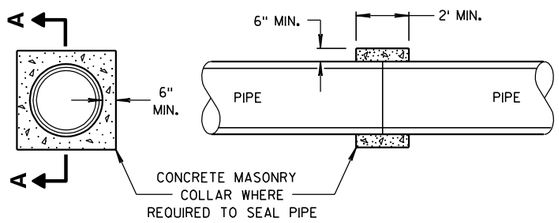
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

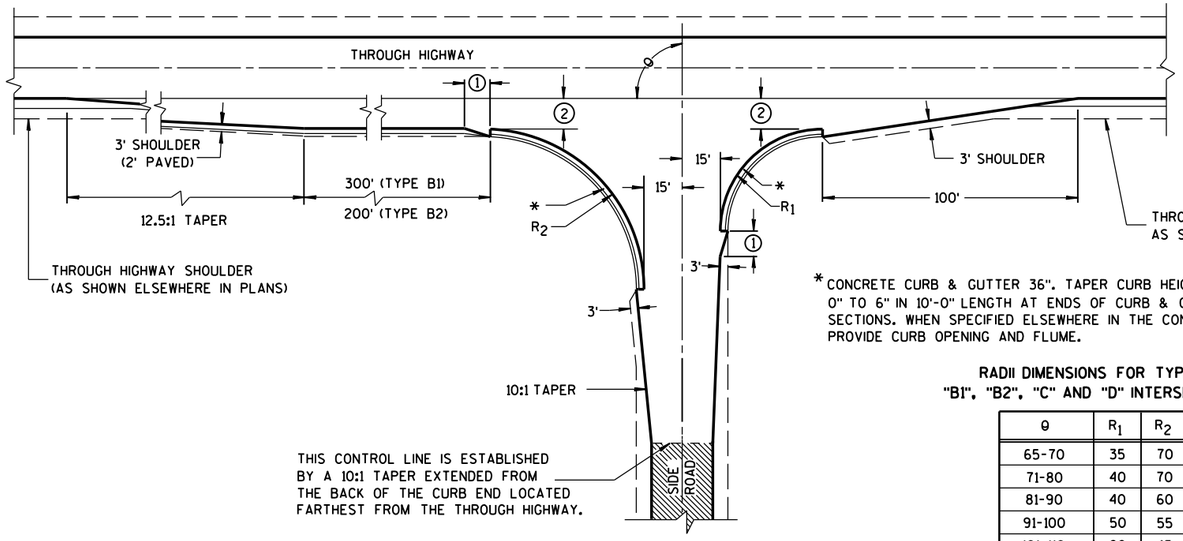
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

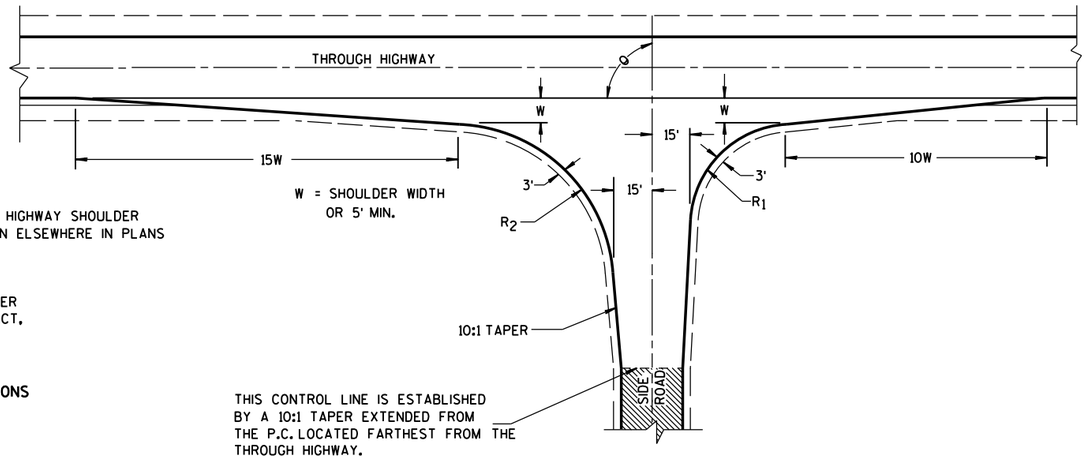


TYPE "B1" AND "B2"

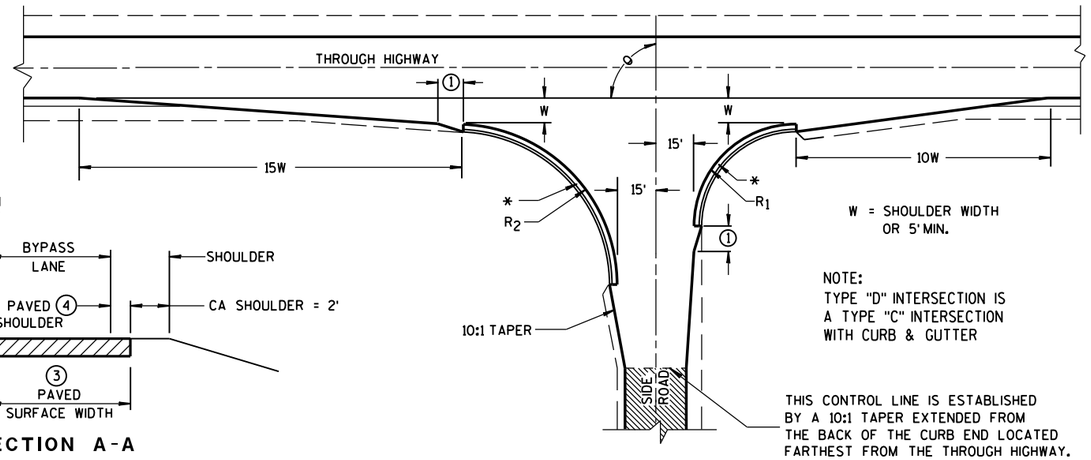
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

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



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

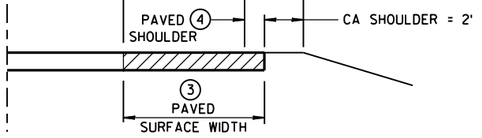
(1) 10-FT TYPICAL.

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

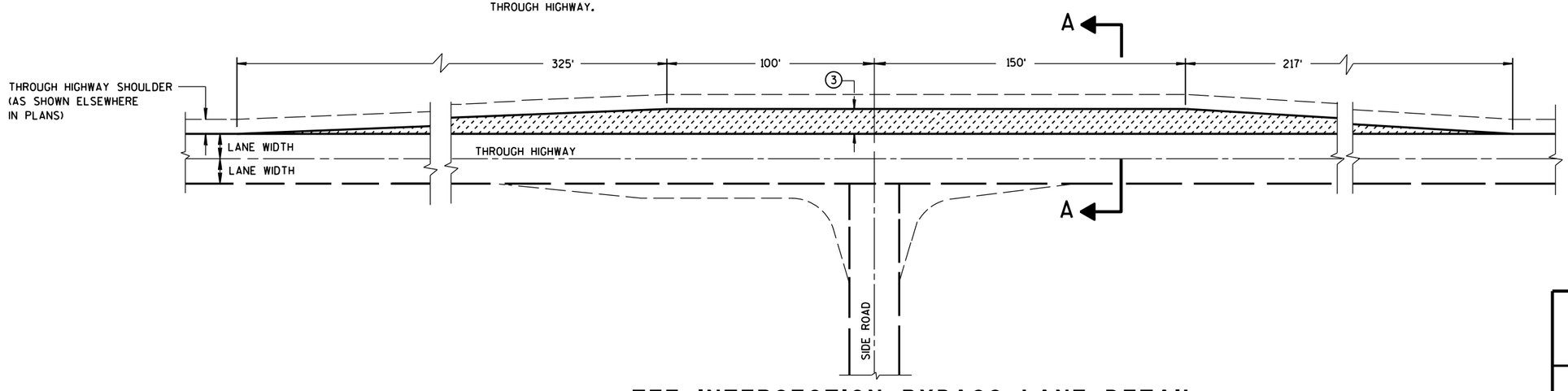
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

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



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



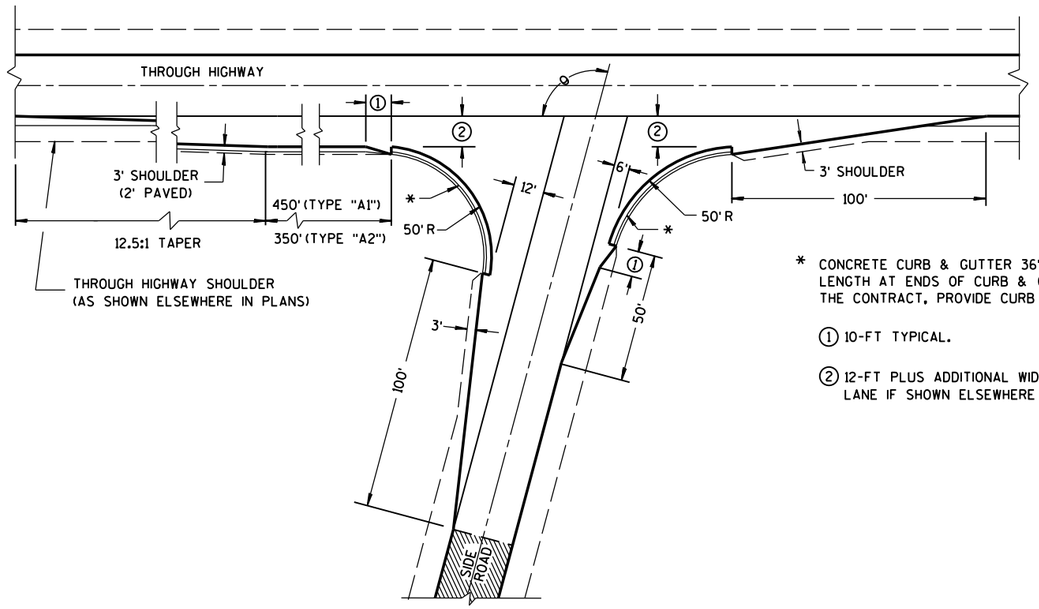
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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



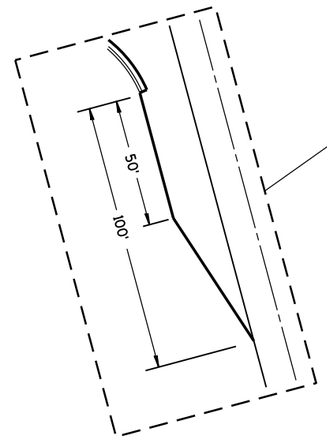
θ = MORE THAN 80°

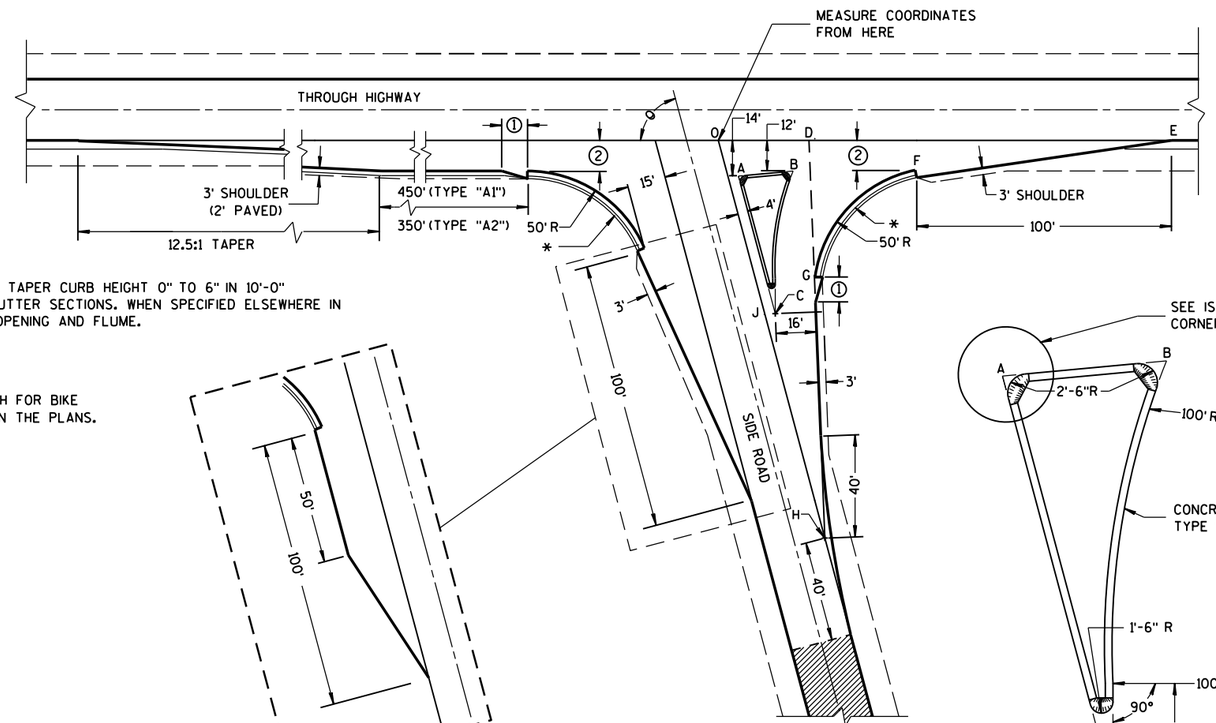
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

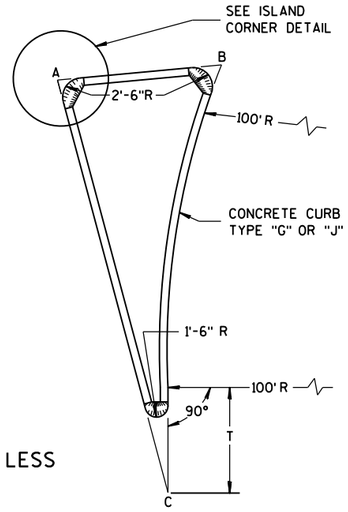
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

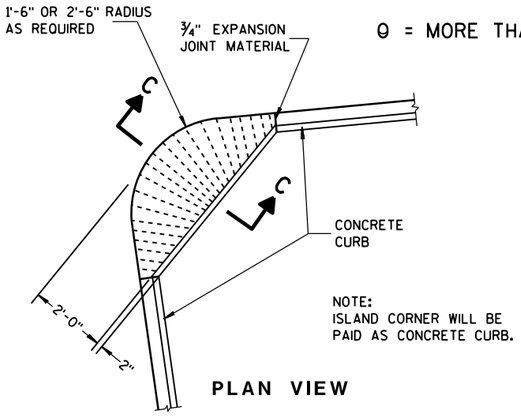




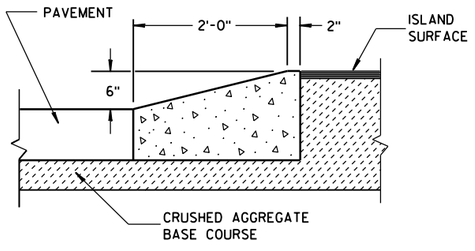
θ = ACUTE ANGLES 80° OR LESS



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



PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

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

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

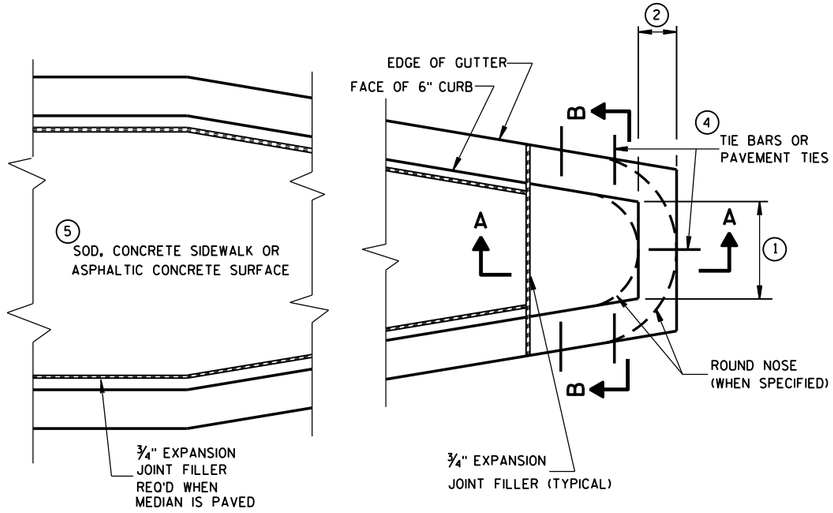
TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

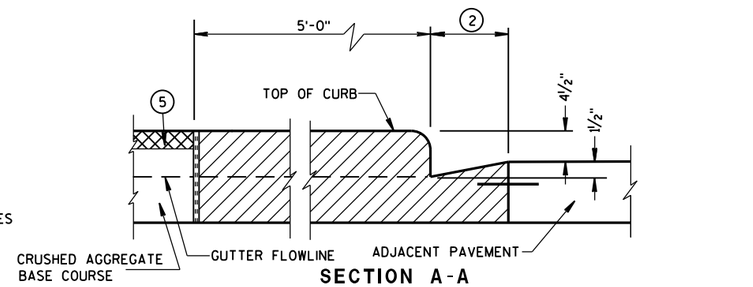
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

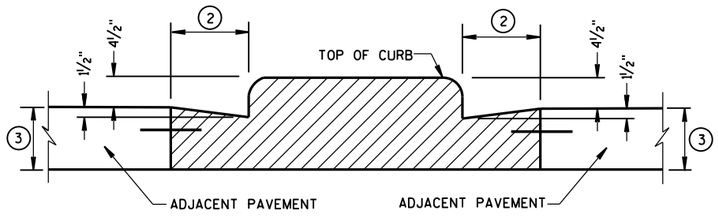
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 9 A 1-13b







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.

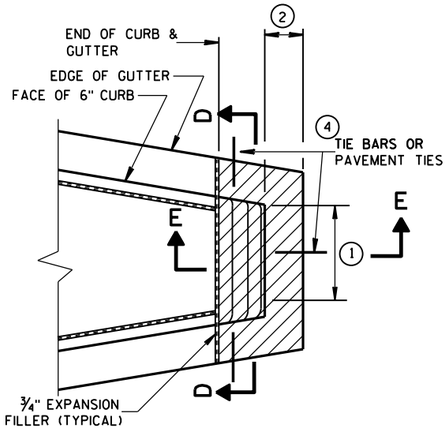
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

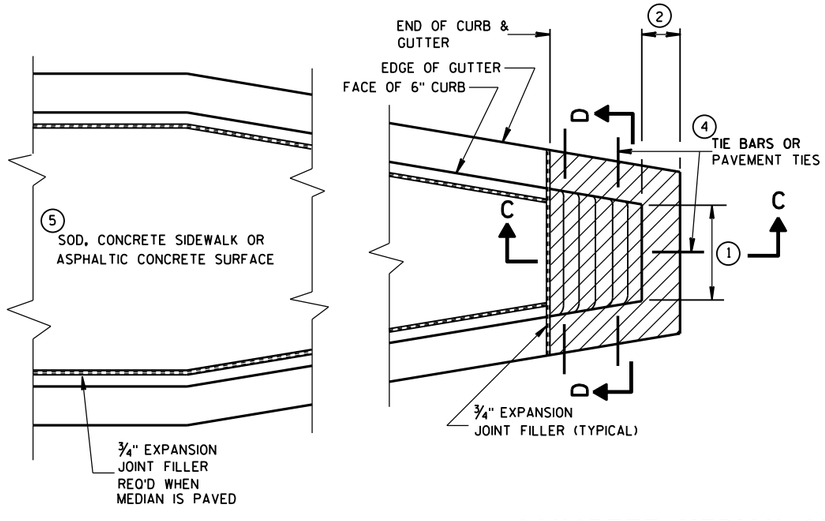
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

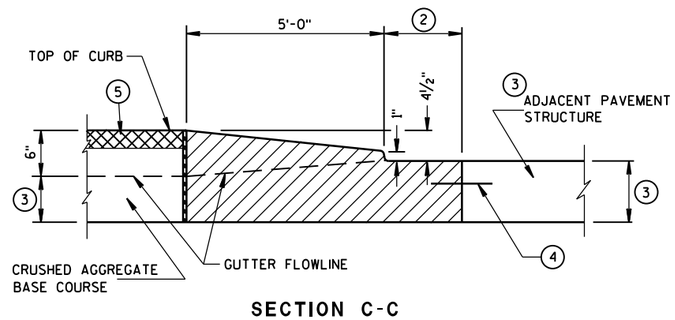
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

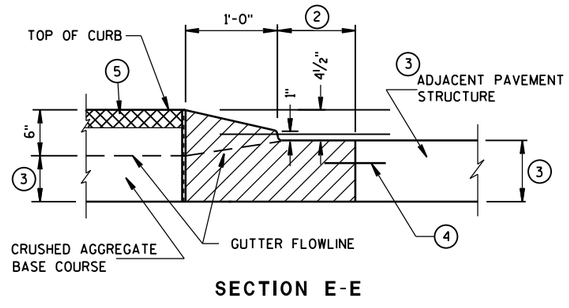
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



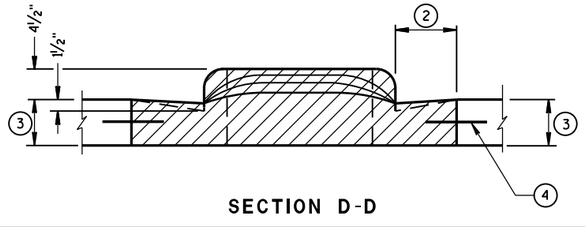






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

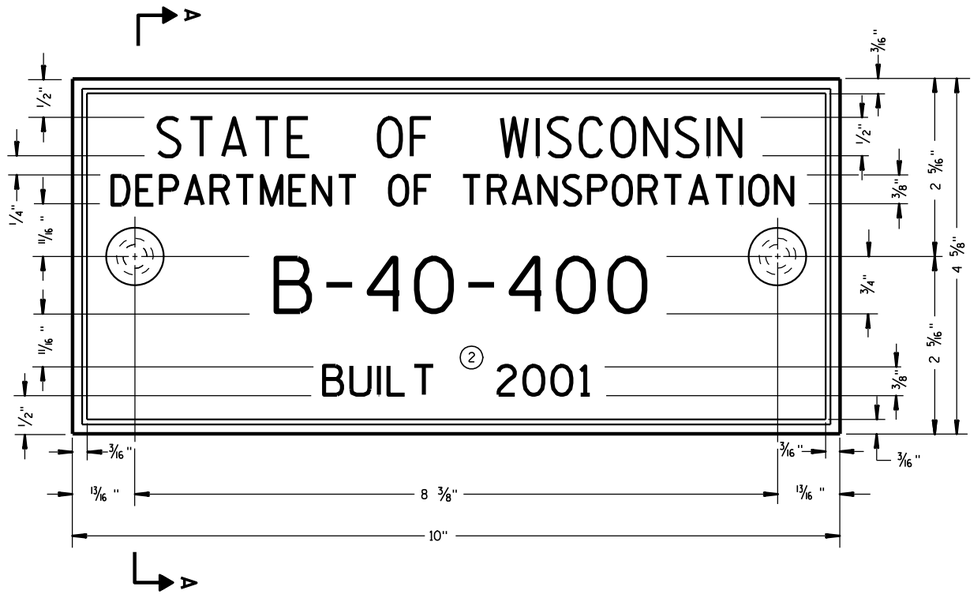
FHWA

6

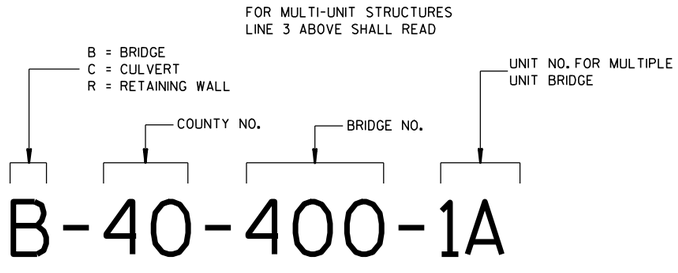
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

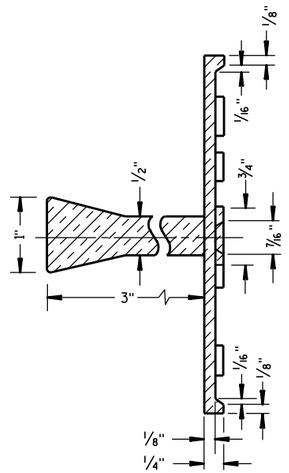
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

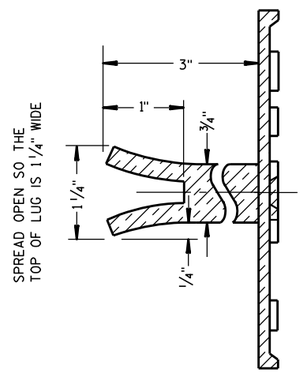
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

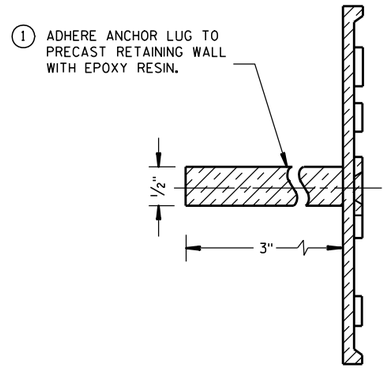
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

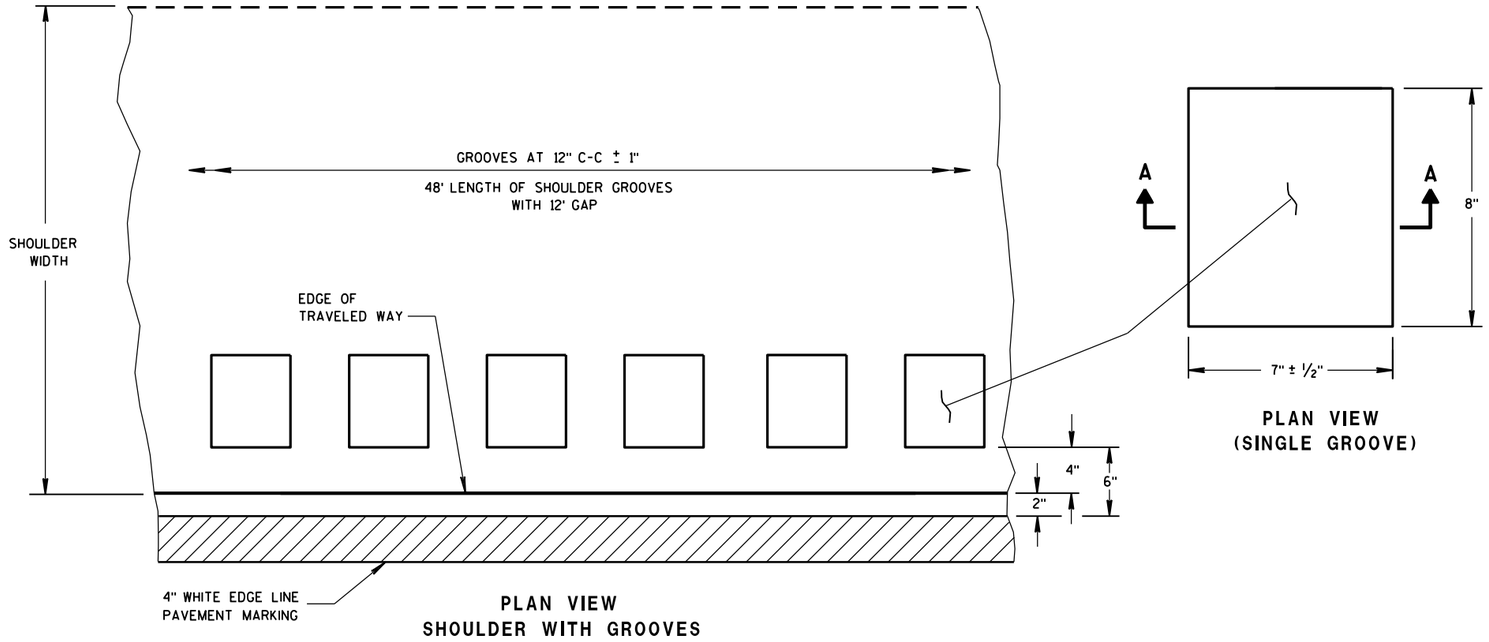
APPROVED

3/26/10 DATE — /S/ Scot Beck — CHIEF STRUCTURAL DEVELOP ENGINEER

FHWA

6

S.D.D. 12 A 3-10



PLAN VIEW
SHOULDER WITH GROOVES

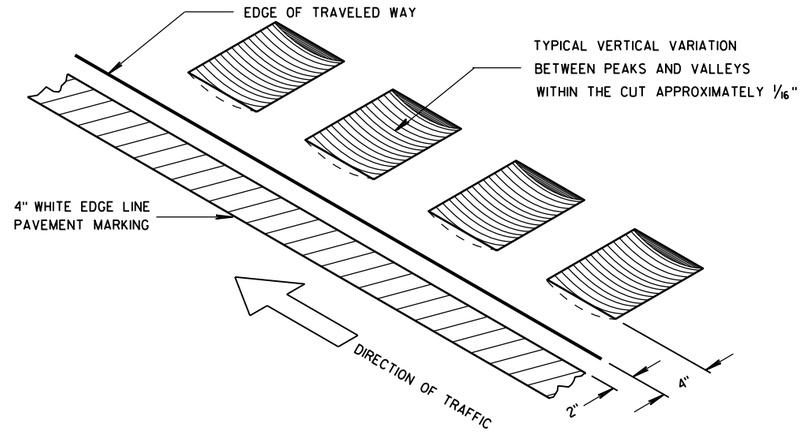
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

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

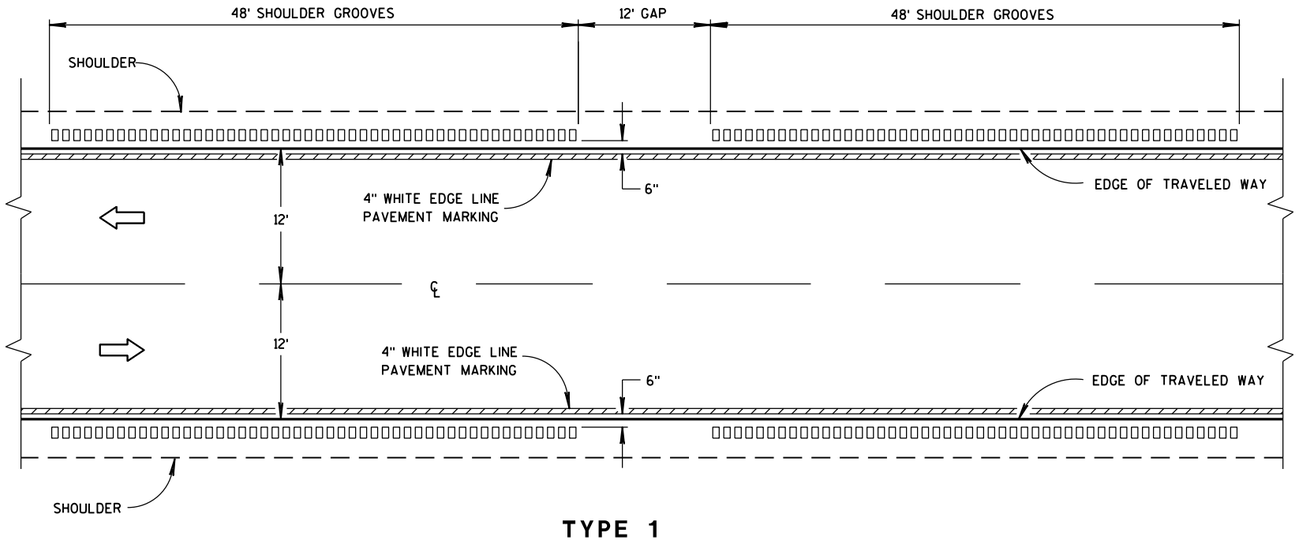
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

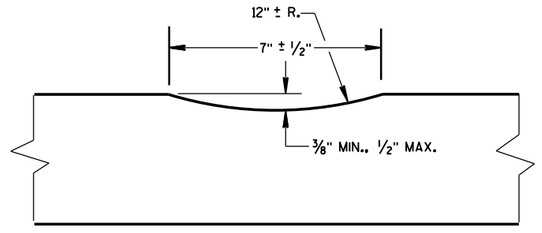


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

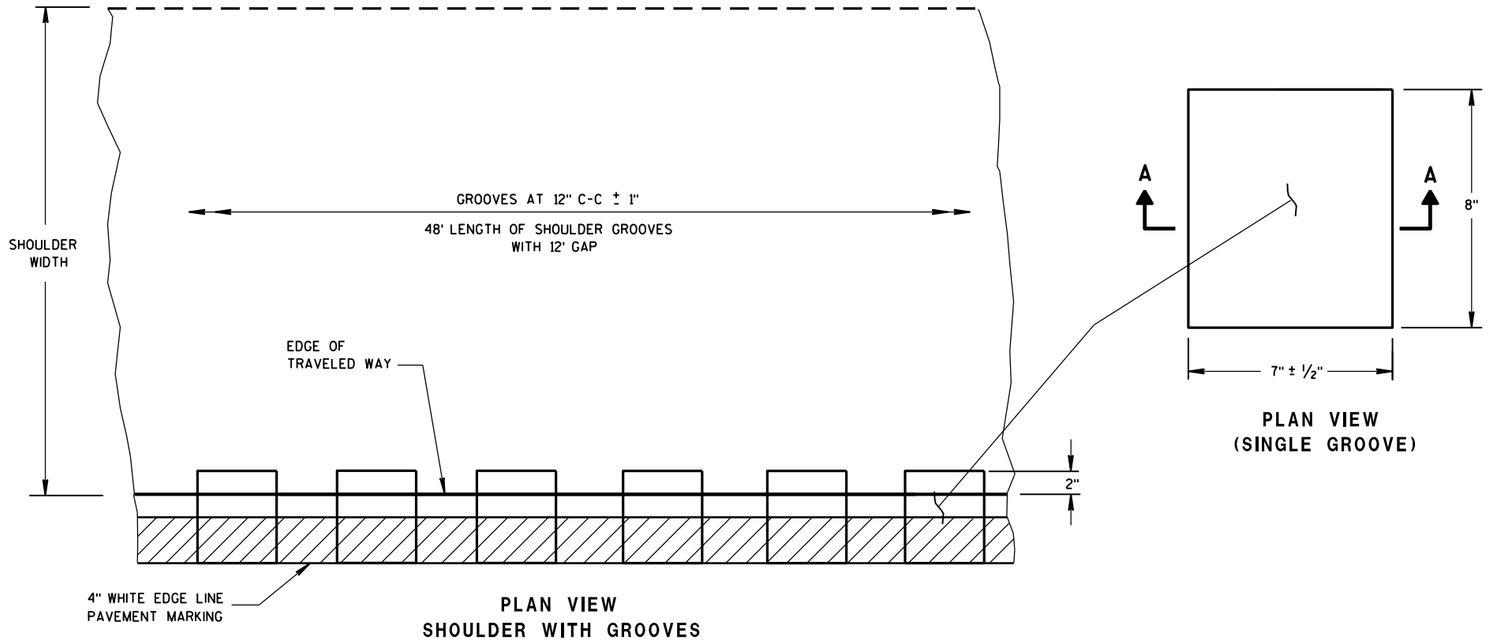
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 13 A 10-1a

6

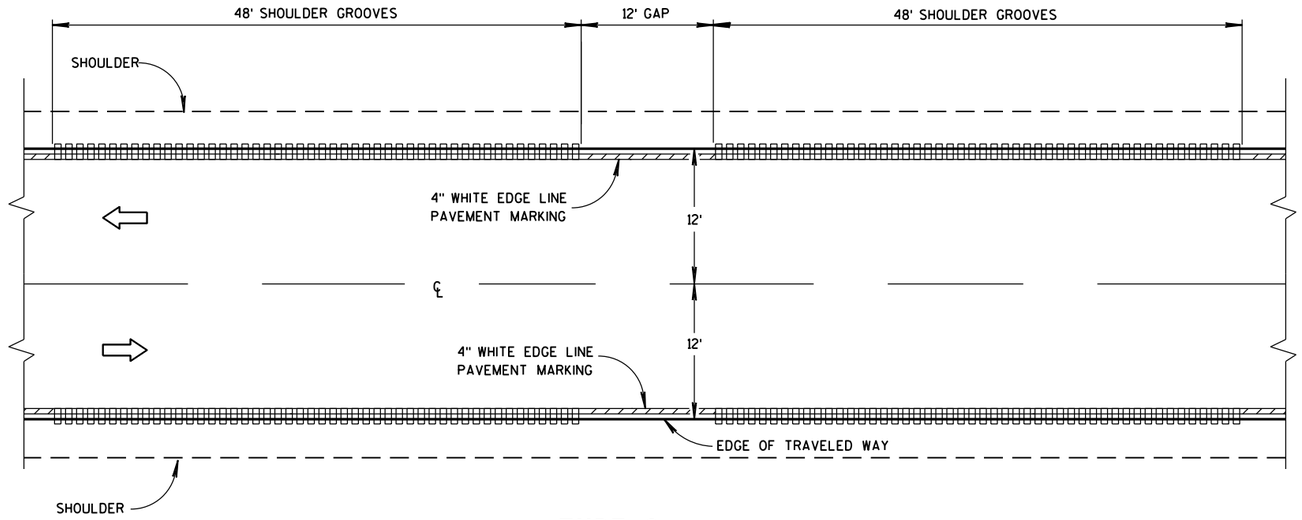
S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



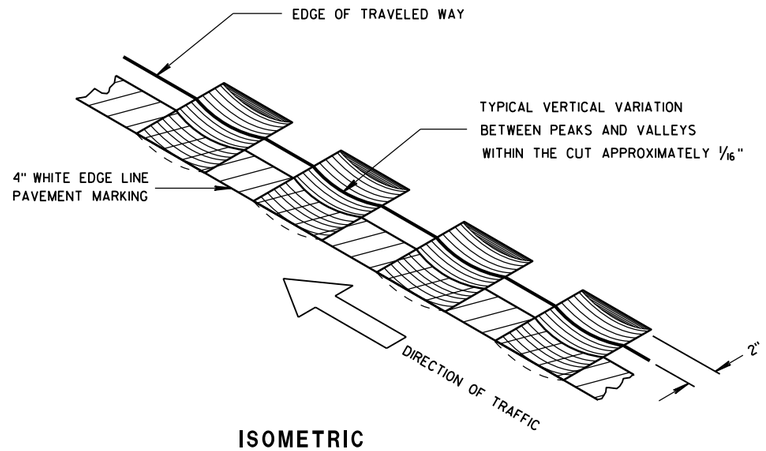
TYPE 2
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

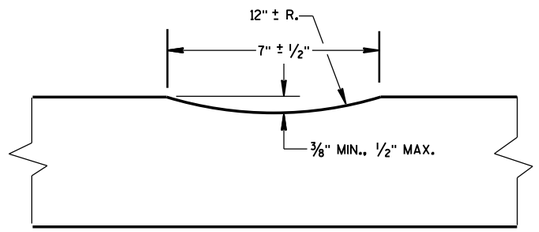
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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



ISOMETRIC



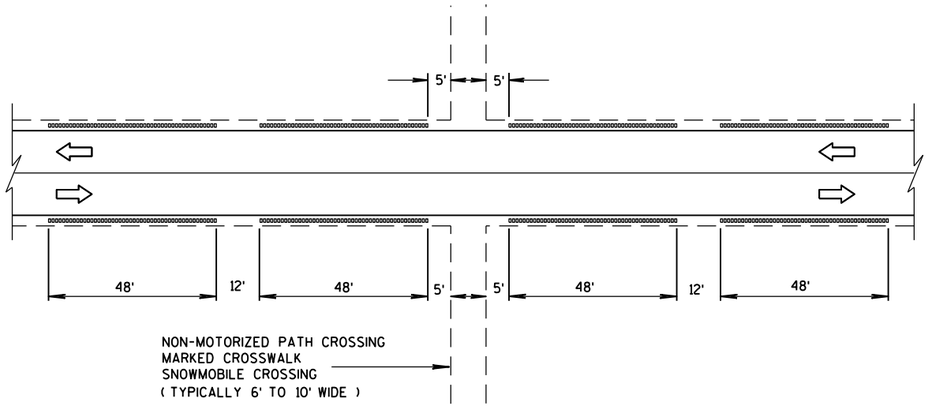
SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

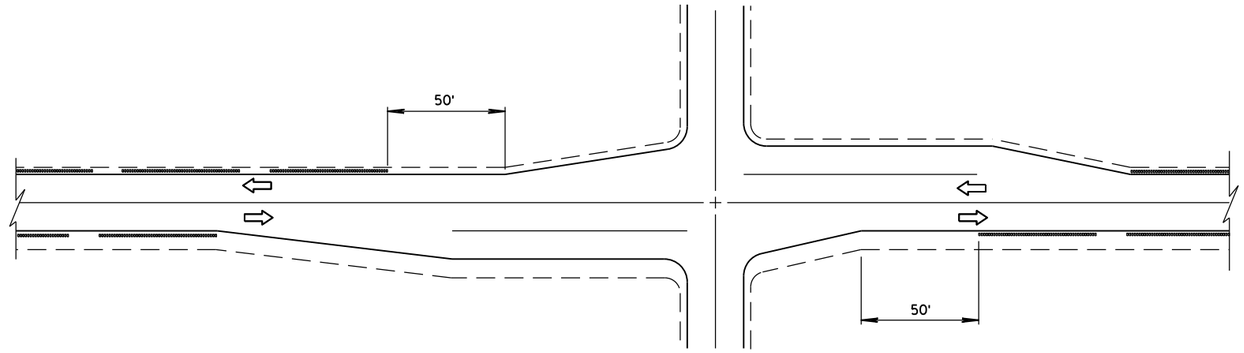
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

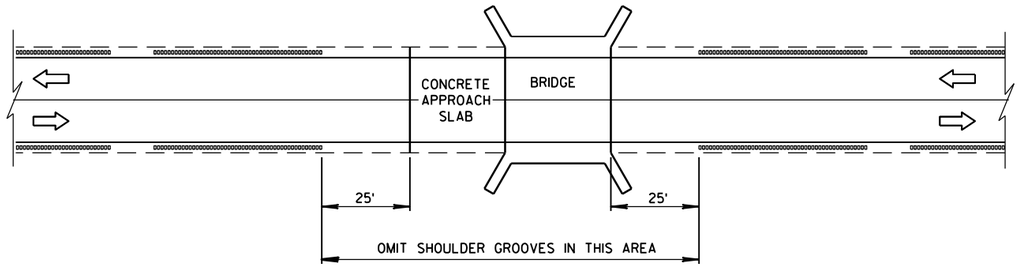
S.D.D. 13 A 10-1b



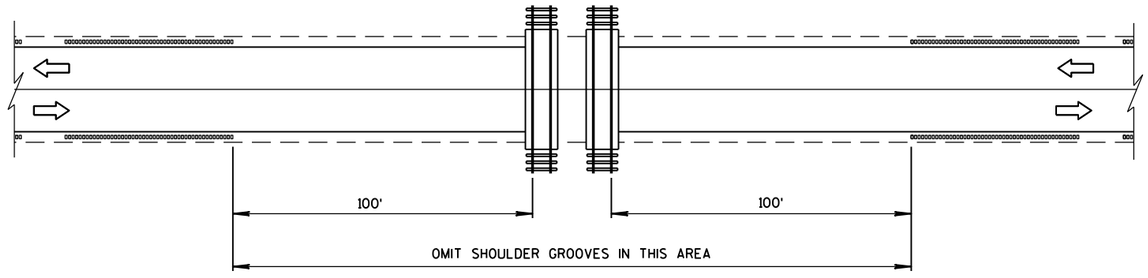
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



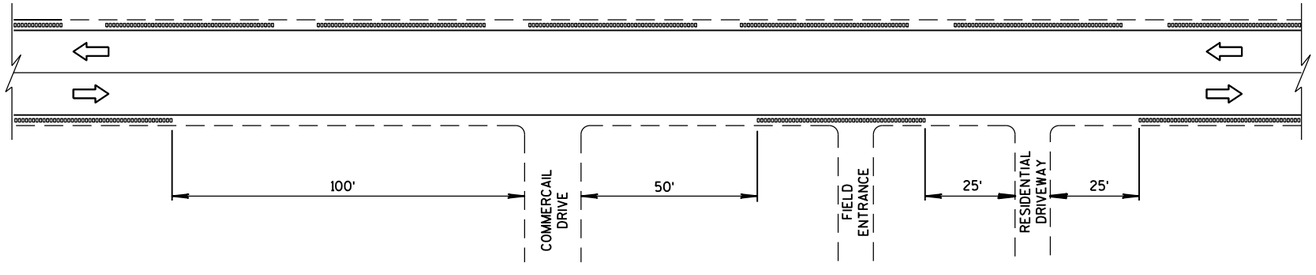
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

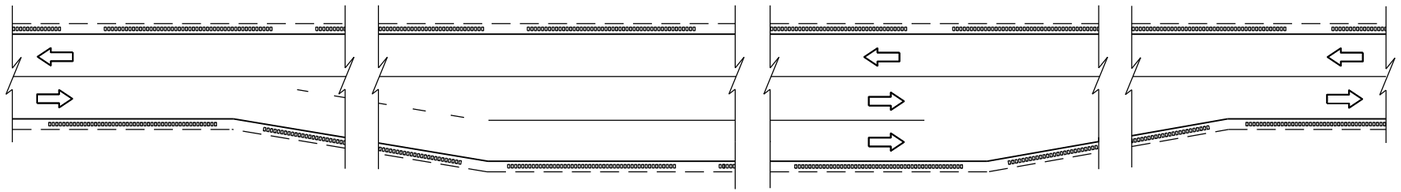
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

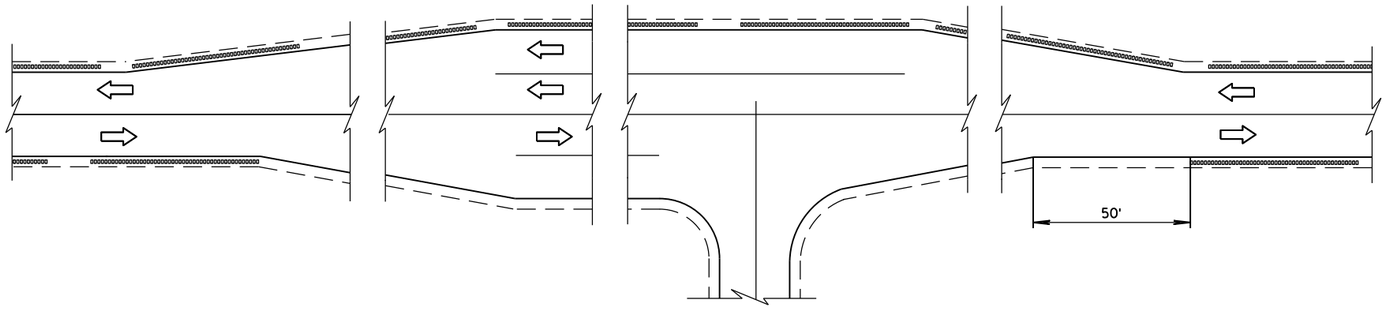
S.D.D. 13 A 10-1c

6

S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

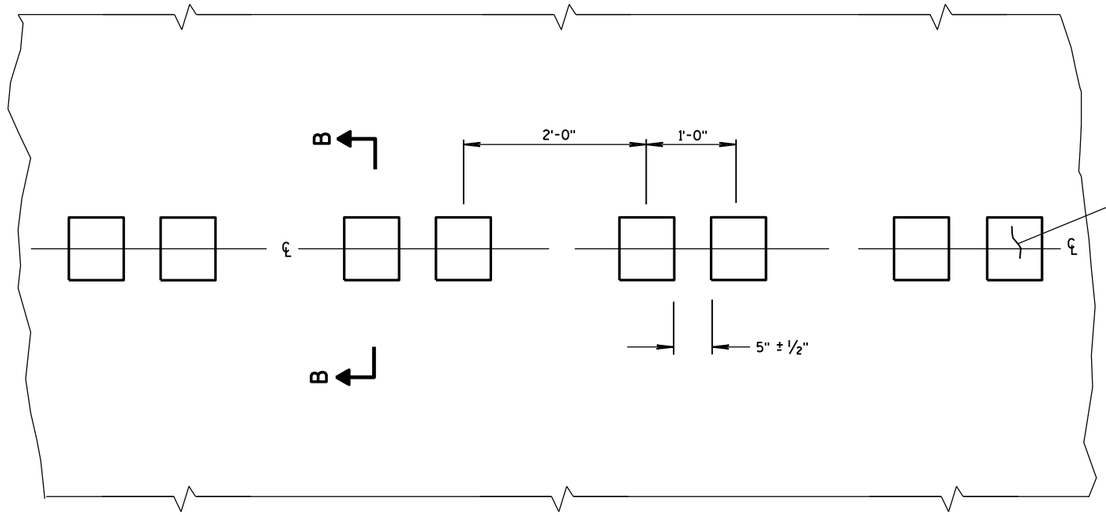
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

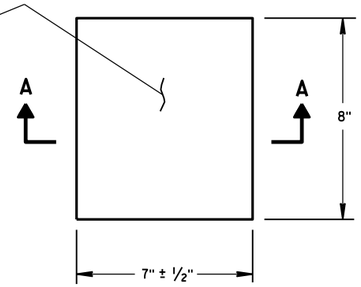
12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

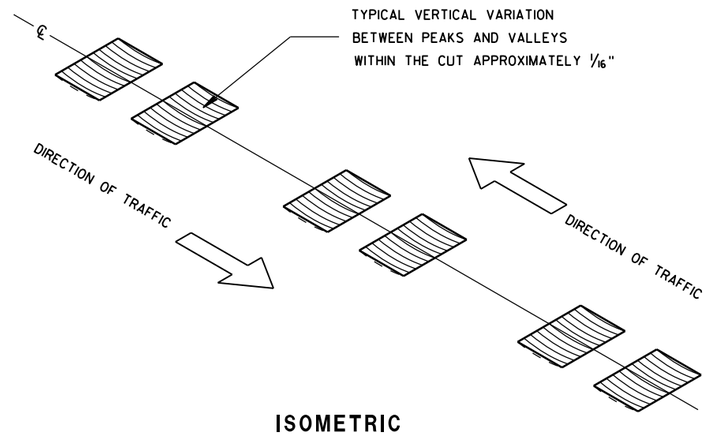
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

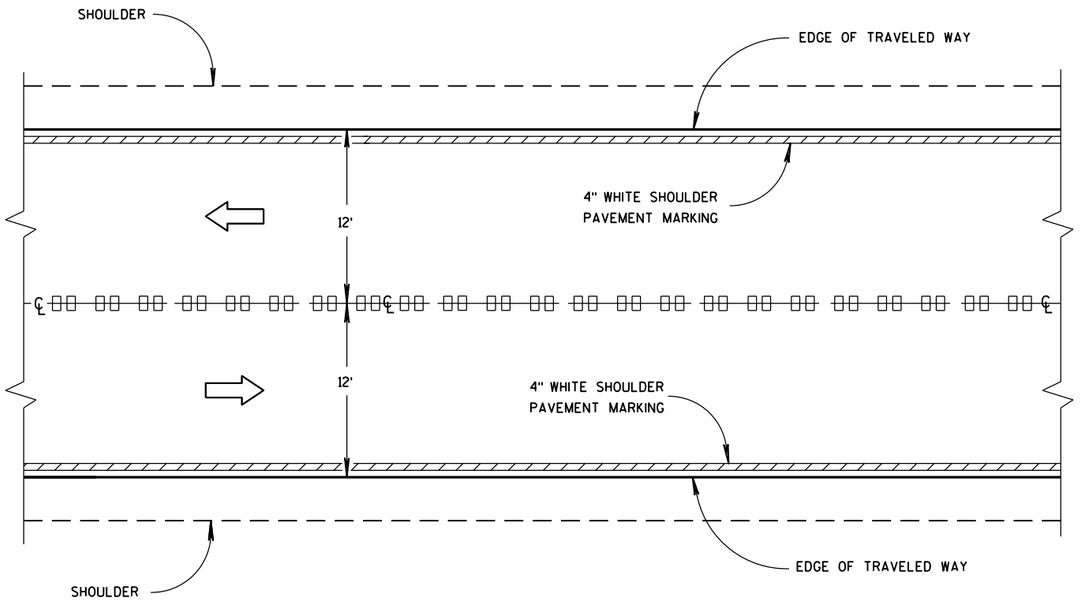
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

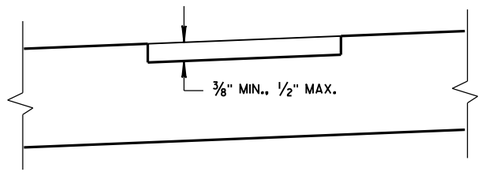
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



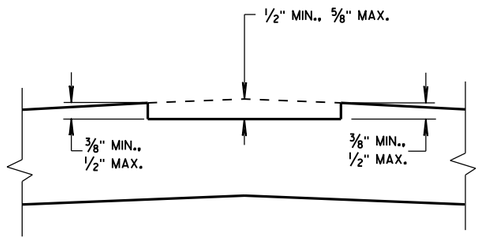
ISOMETRIC



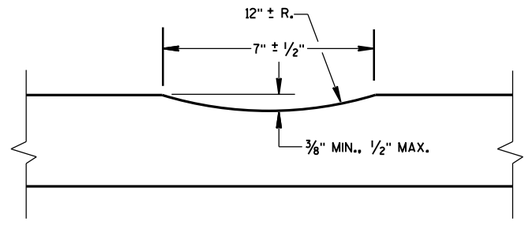
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

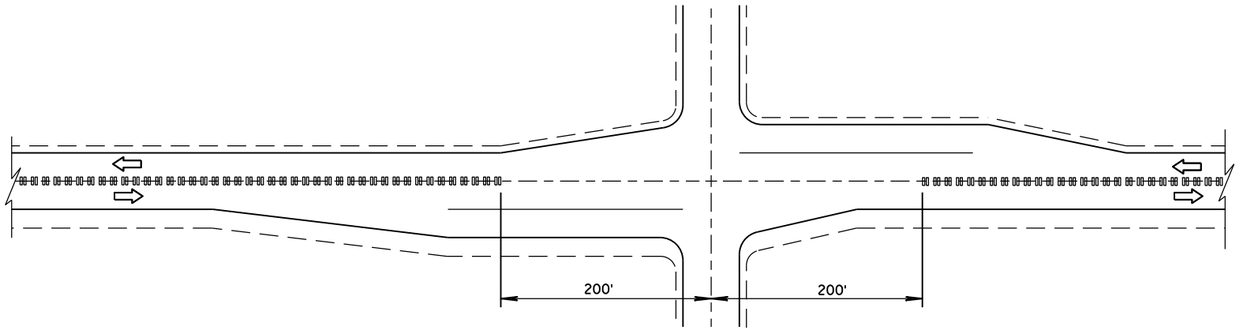
6

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

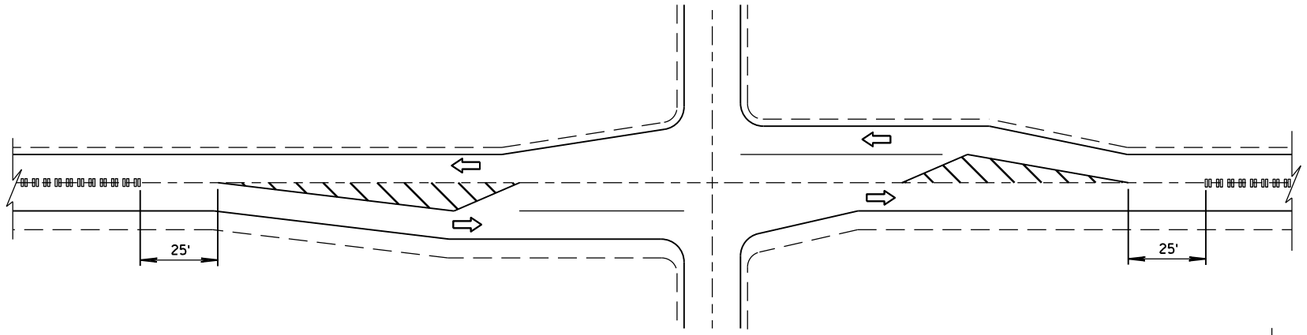
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

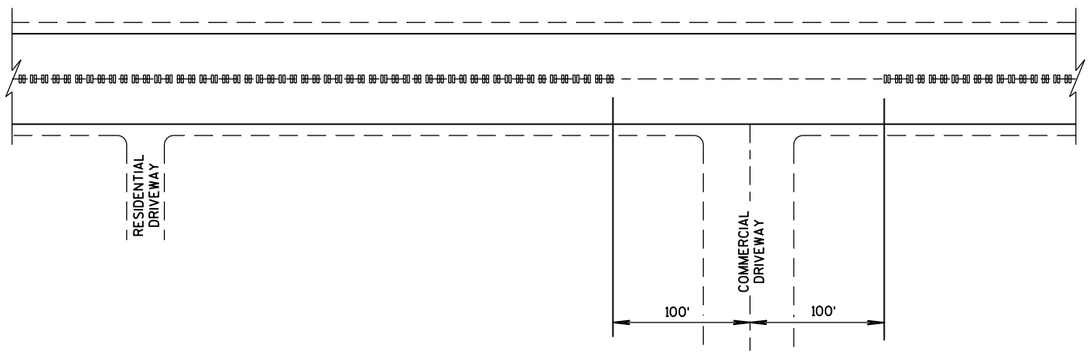
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



CENTER LINE GROOVES AT INTERSECTIONS

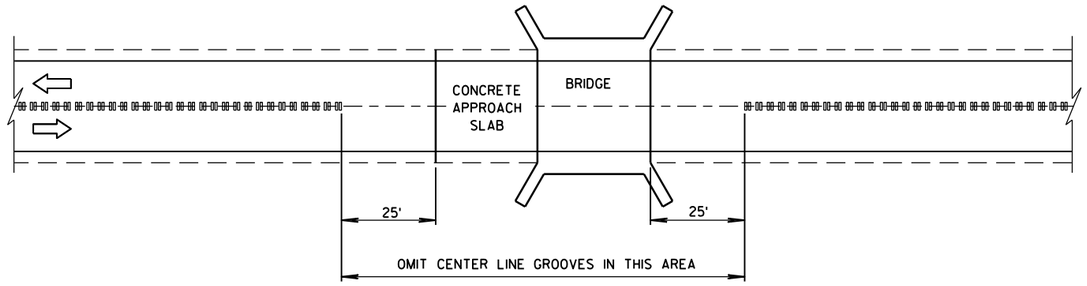


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

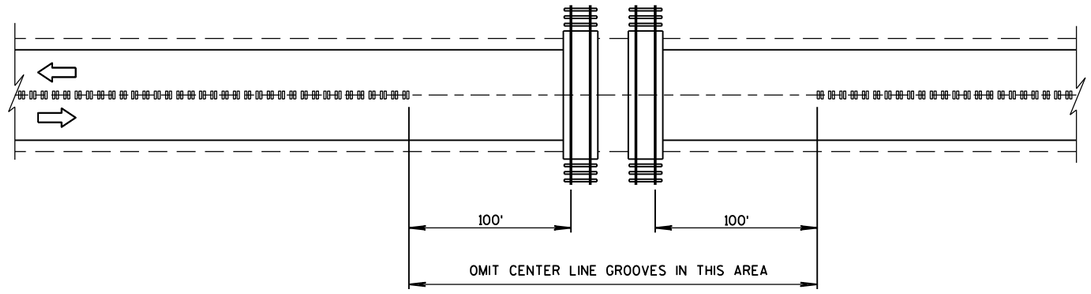


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

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

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

6

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

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

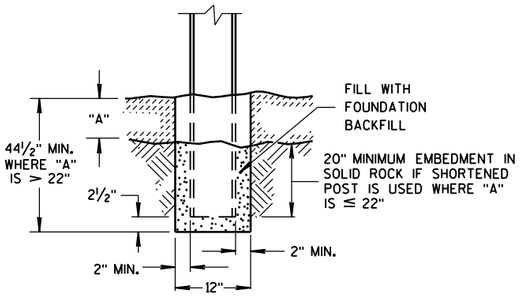
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

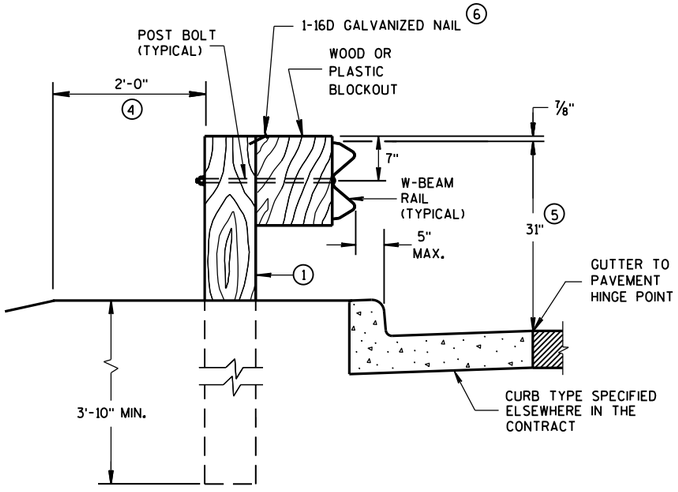
④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



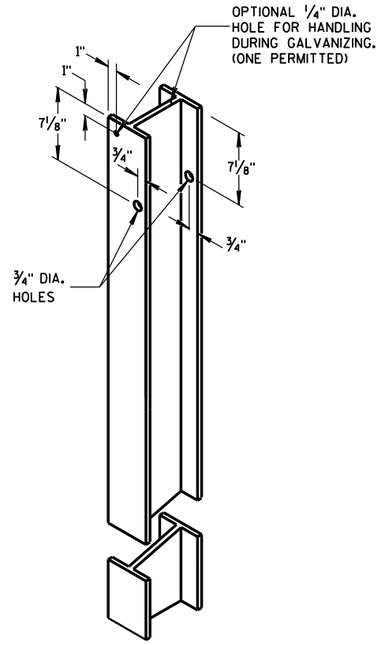
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



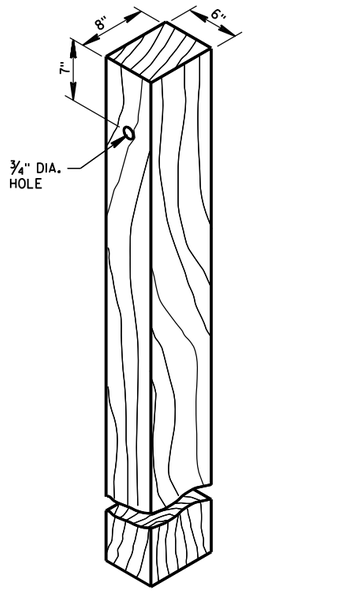
END VIEW
LOCATED ALONG A CURBED ROADWAY

END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

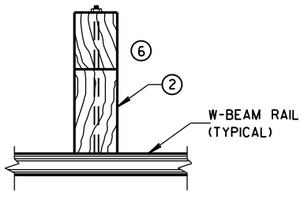
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



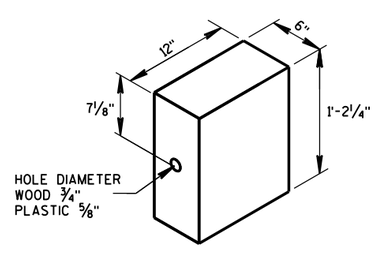
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



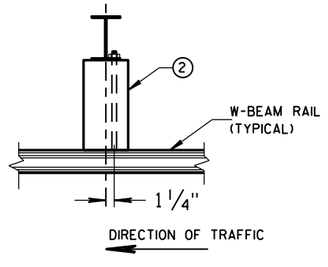
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



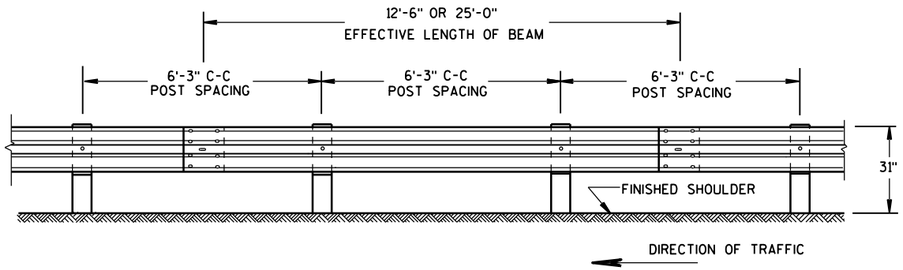
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

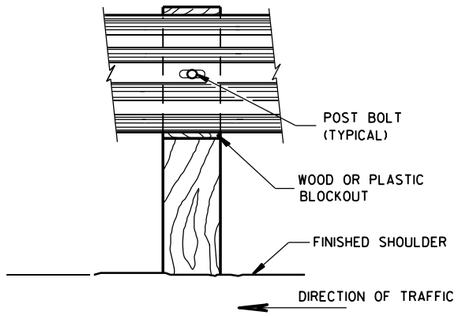
6

S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

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

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

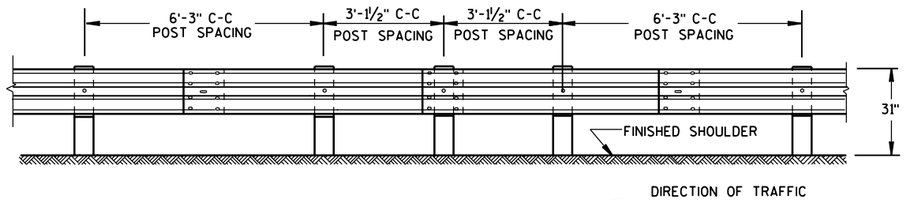
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

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

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

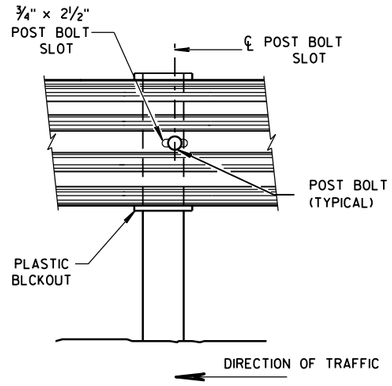
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

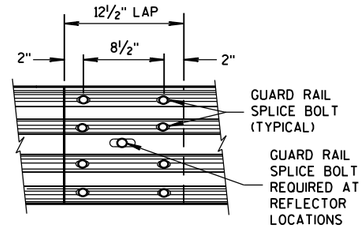


FRONT VIEW

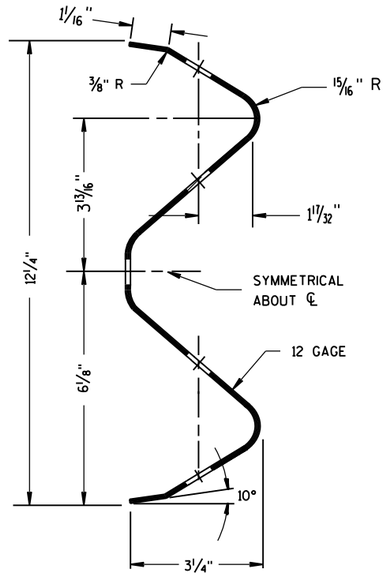
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



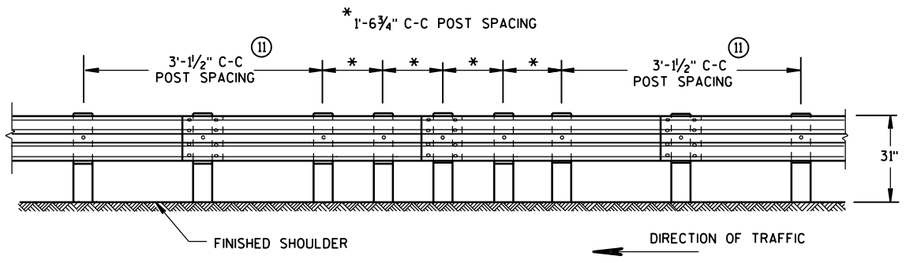
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

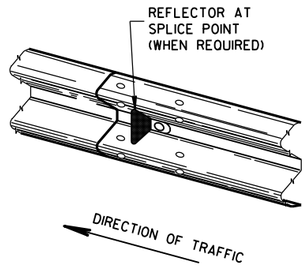


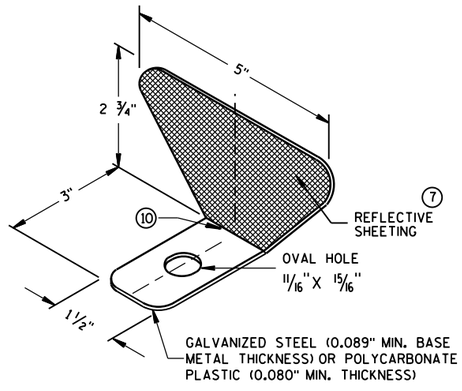
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

REFLECTOR SPACING 8

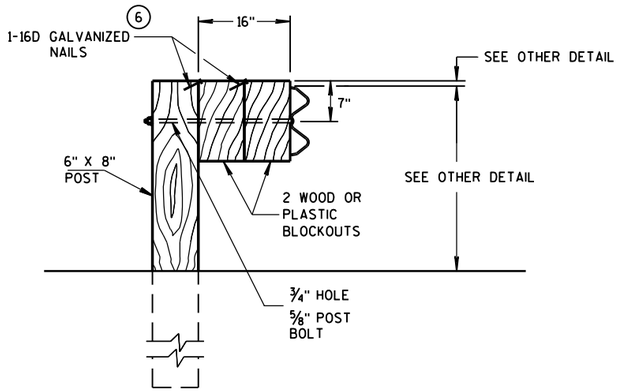
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

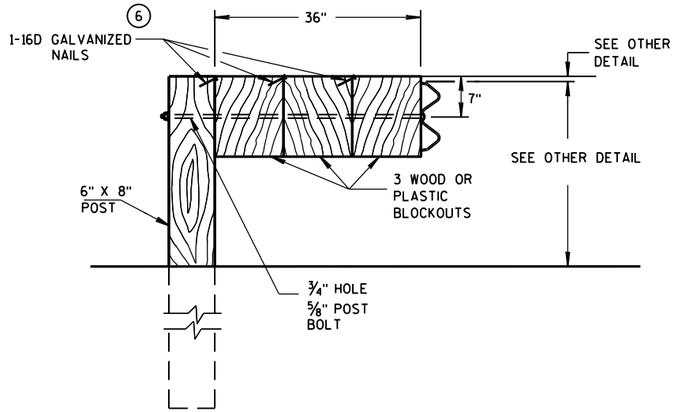
6

S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

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

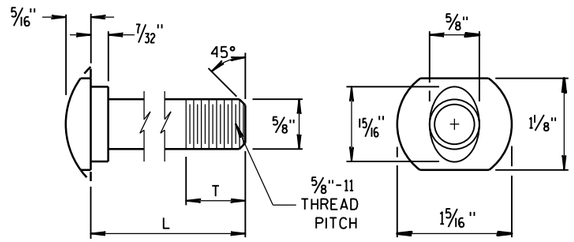


DETAIL FOR 36" BLOCKOUT DEPTH

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

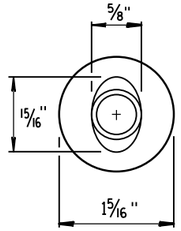
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

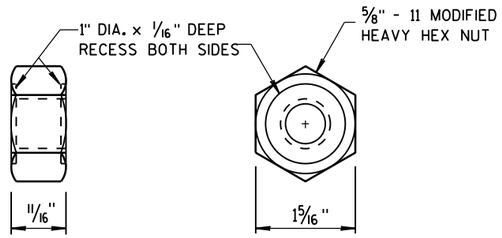


POST BOLT TABLE

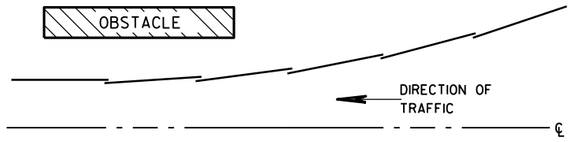
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

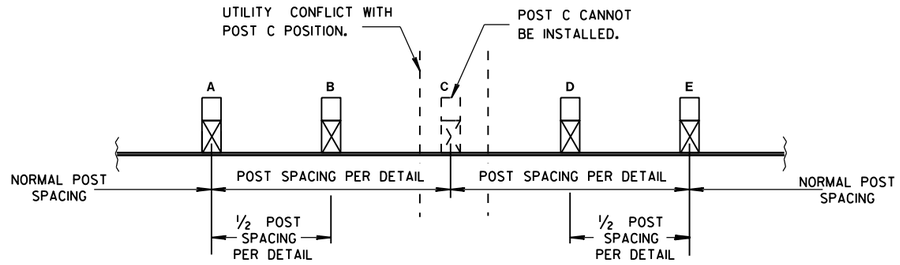


POST BOLT, SPLICE BOLT AND RECESS NUT

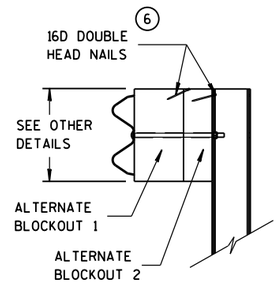


PLAN VIEW

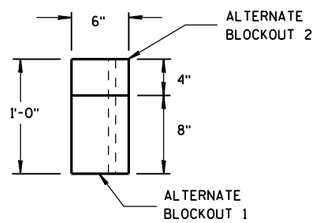
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

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

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

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

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

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

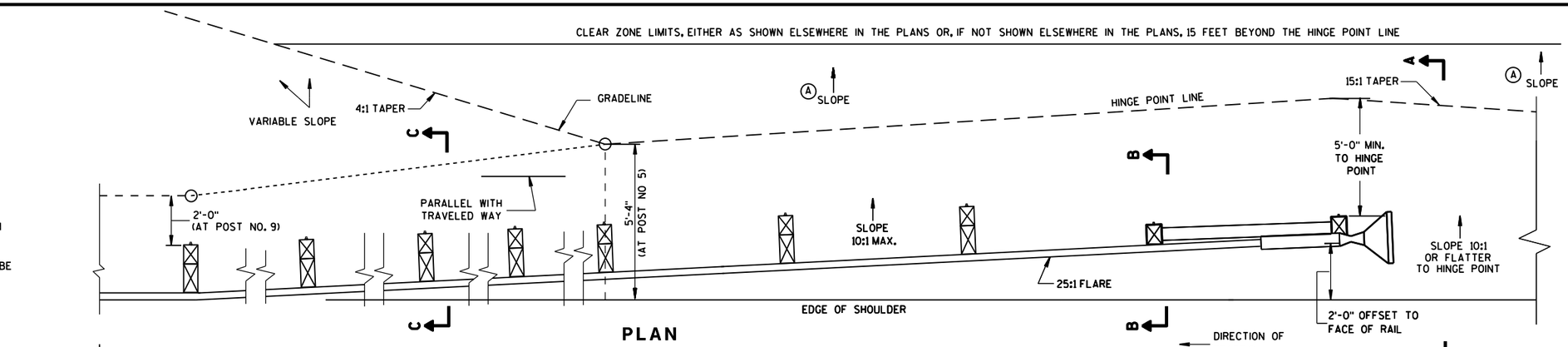
SEE SDD 14B42 FOR MORE INFORMATION.

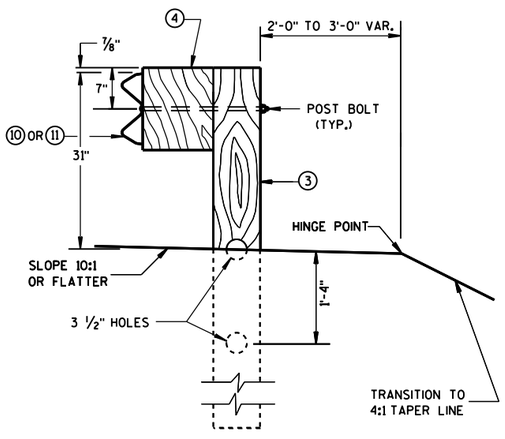
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

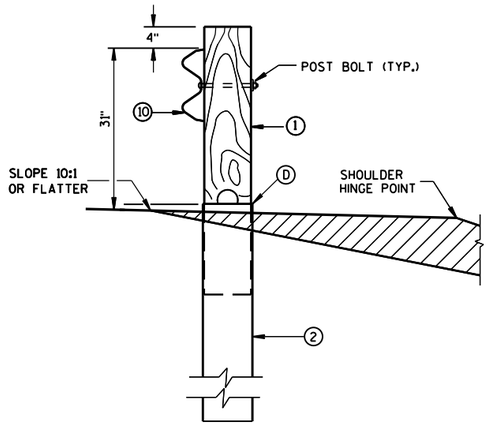
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

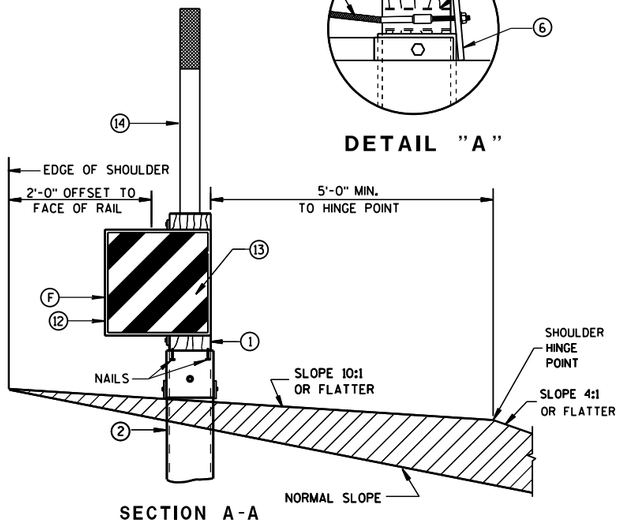




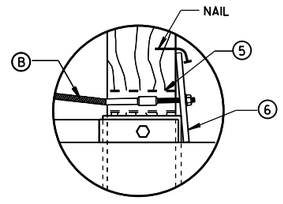
SECTION C-C
TYPICAL AT POST NOS. 3-9



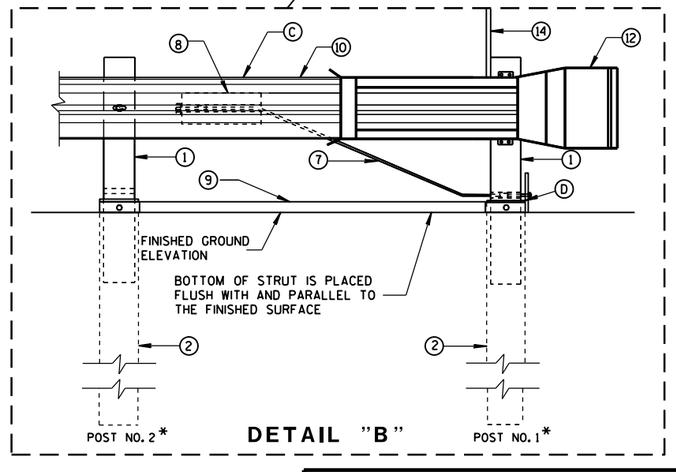
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



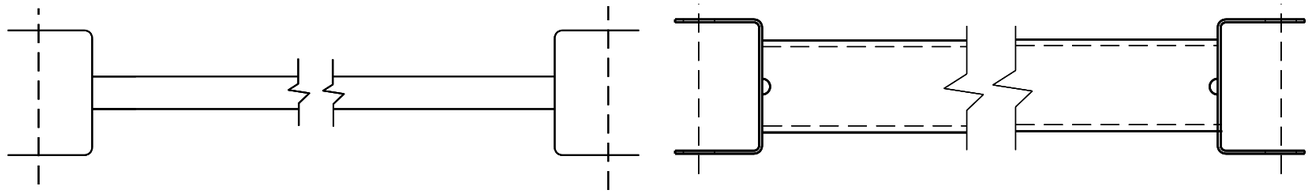
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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

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

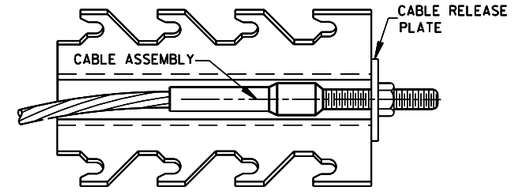


(9) (H)

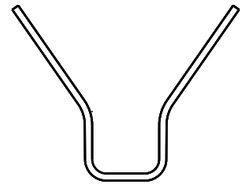
GENERIC GROUND STRUT

BILL OF MATERIALS

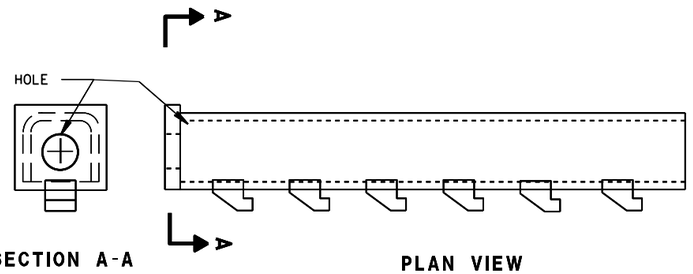
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR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



FRONT VIEW



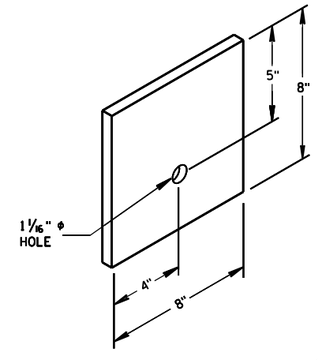
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



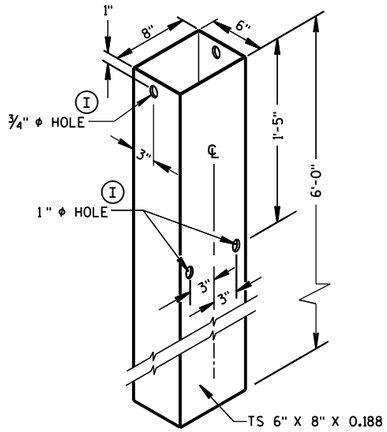
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

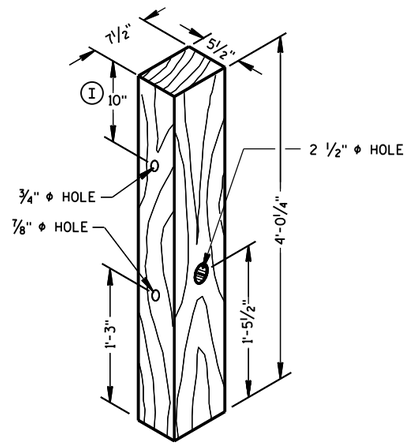
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

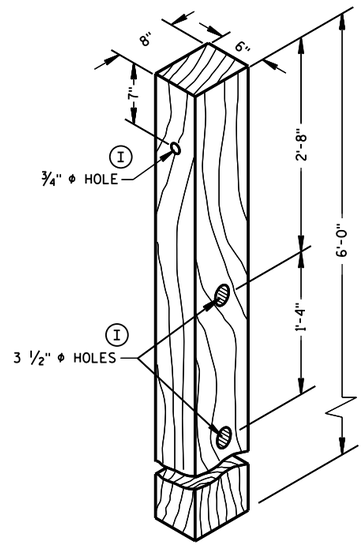


FOUNDATION TUBE (2)



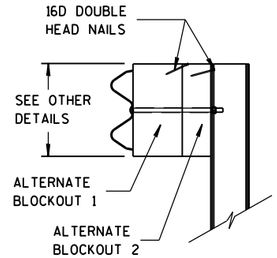
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

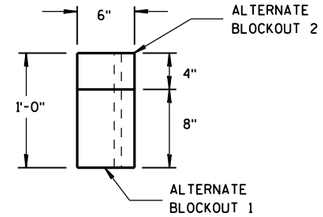


POSTS NUMBER 3-9

WOOD CRT POST (3)

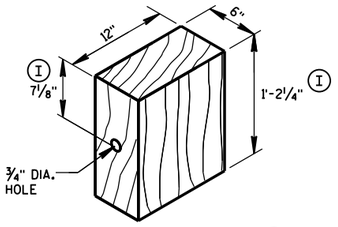


SIDE VIEW



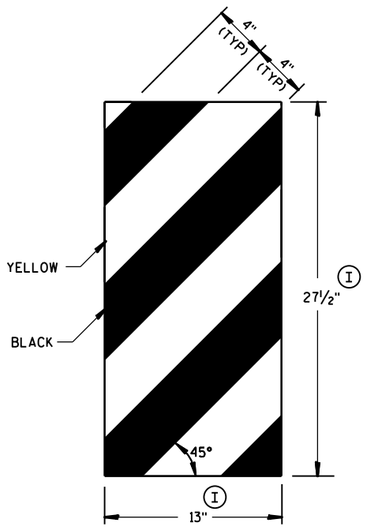
TOP VIEW

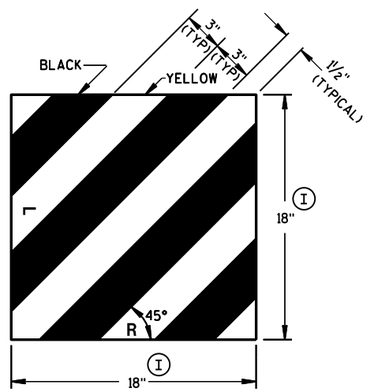
ALTERNATE WOOD BLOCKOUT DETAIL



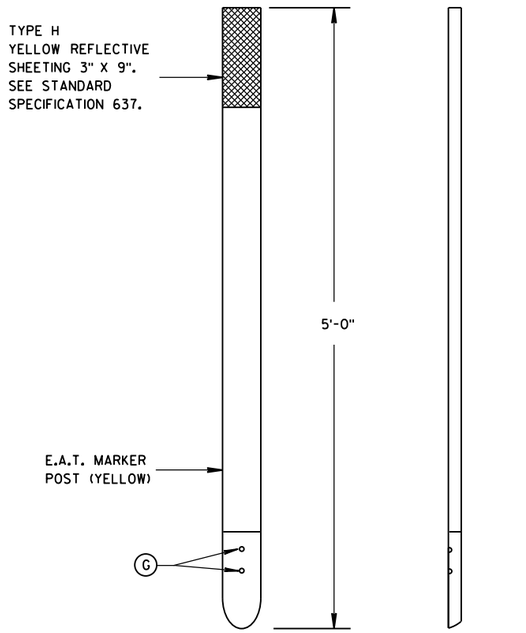
WOOD BLOCKOUT (4)

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





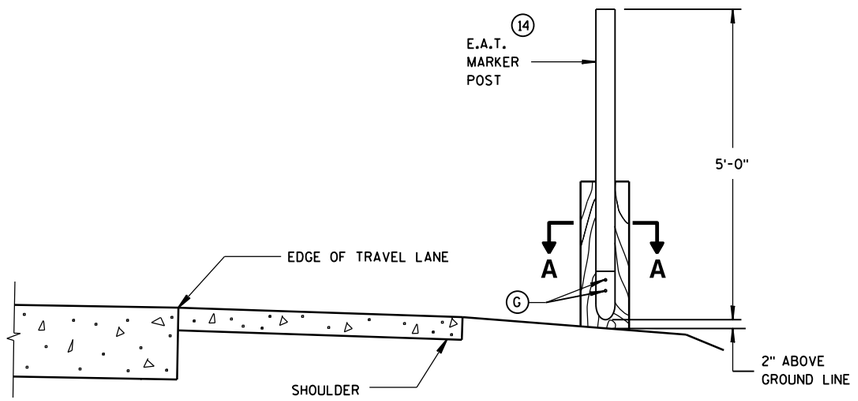
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

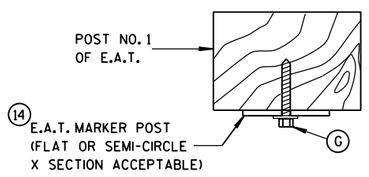
SIDE VIEW

E.A.T. MARKER POST (14)



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

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



SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

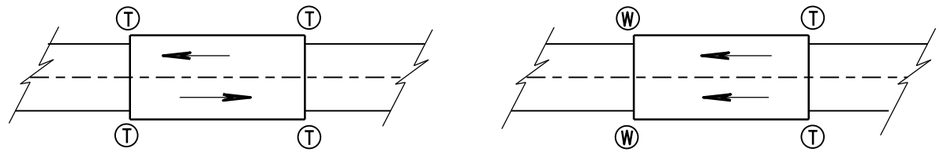
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

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



TWO WAY TRAFFIC **ONE WAY TRAFFIC**

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

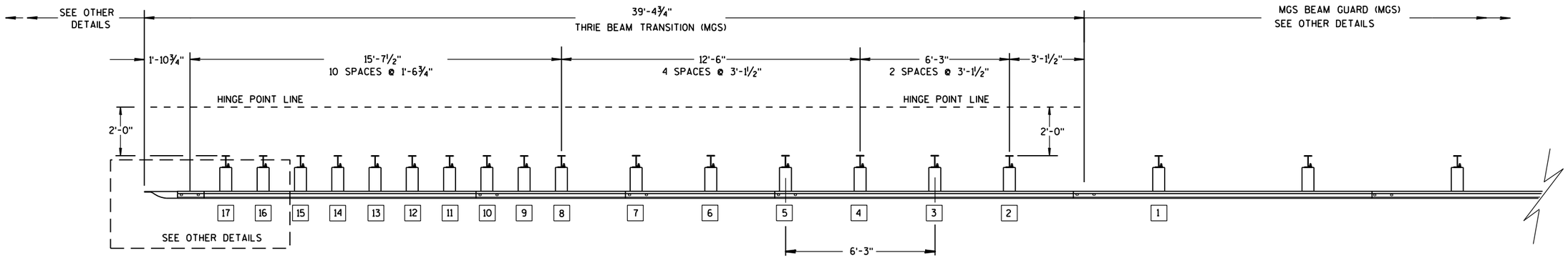
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

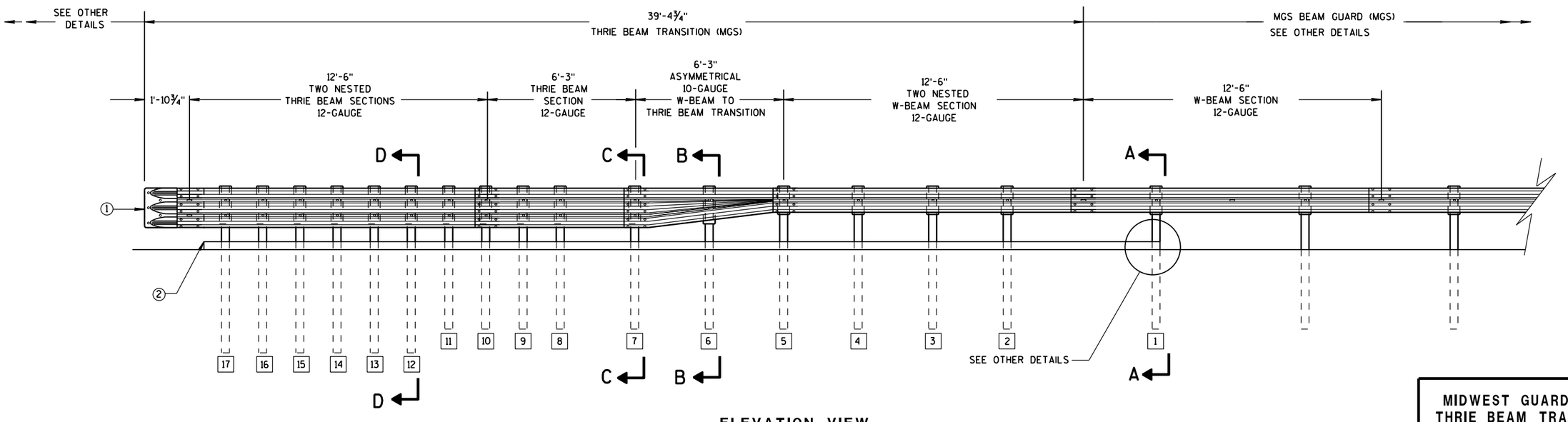
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-4a

6

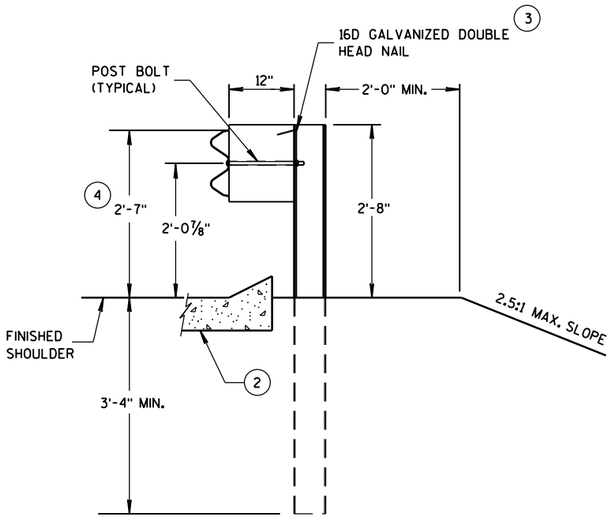
S.D.D. 14 B 45-4a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE_FEATURE SEE PLAN FOR INFORMATION.

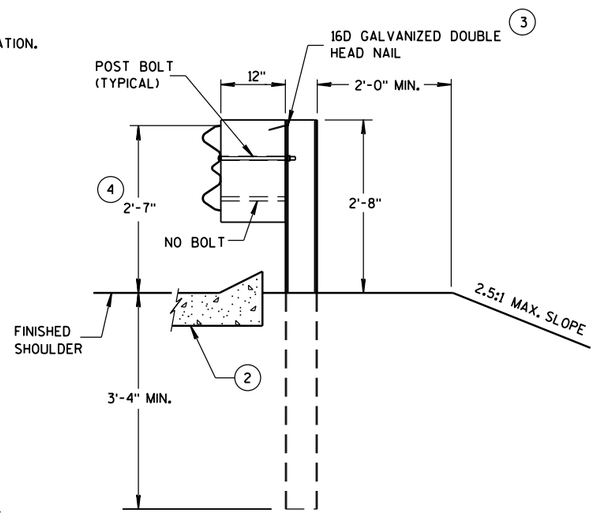
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



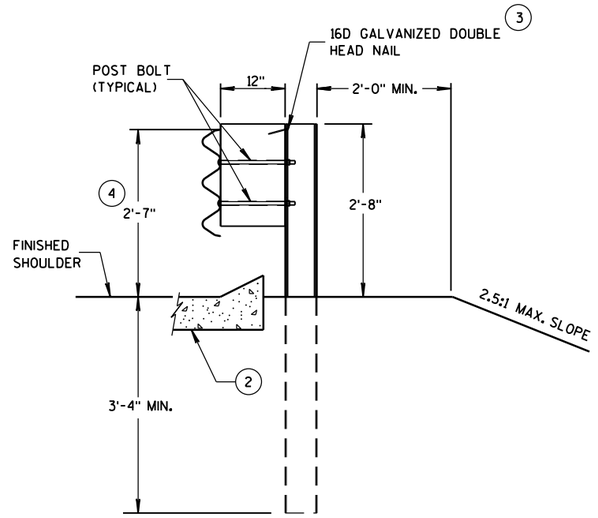
SECTION A-A

POSTS 1-5



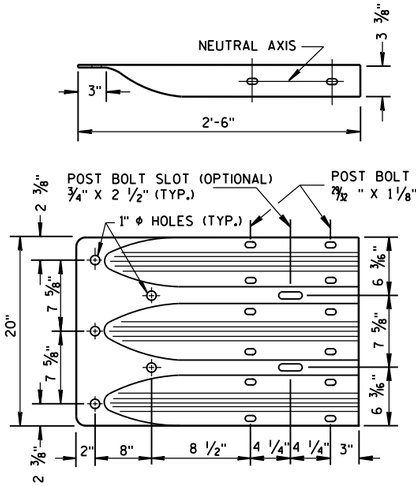
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

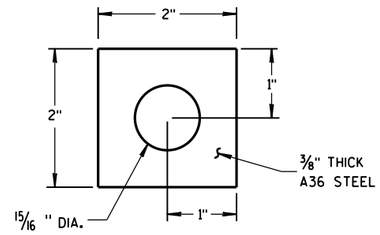
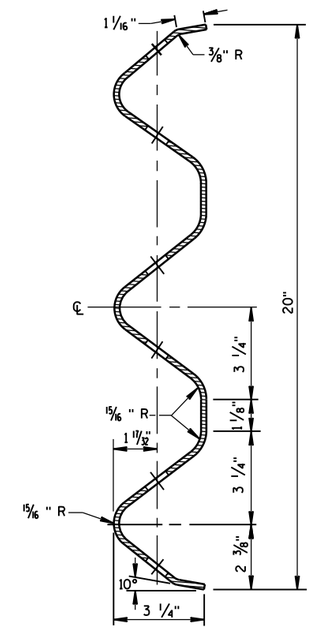
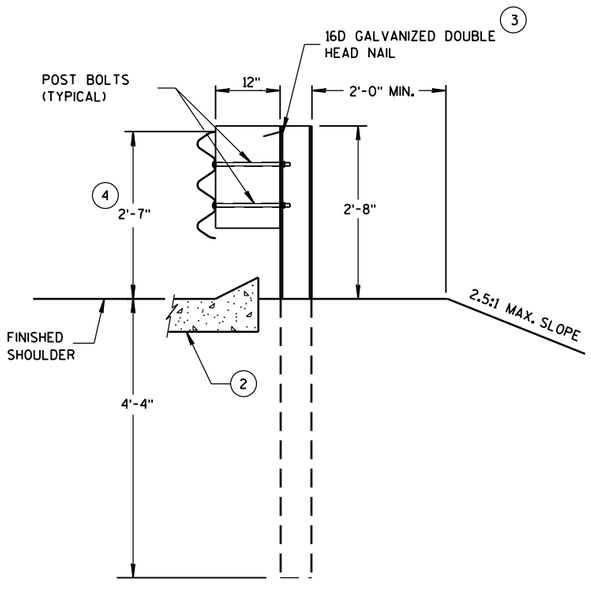


PLATE WASHER DETAIL

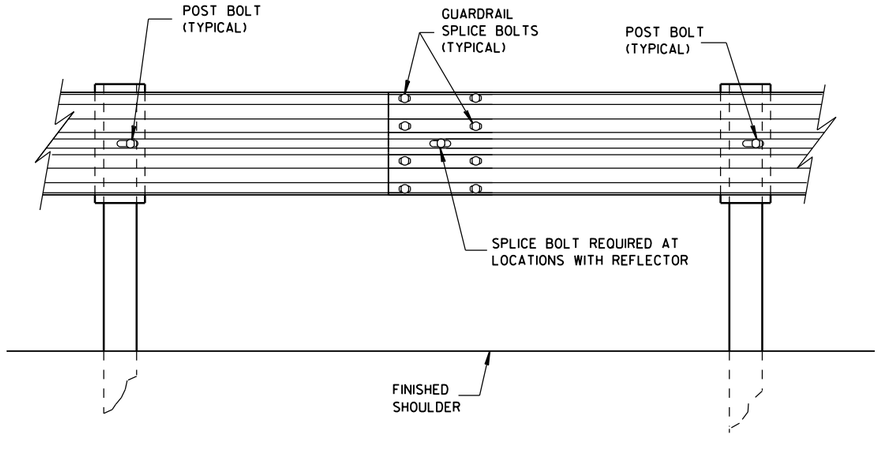


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



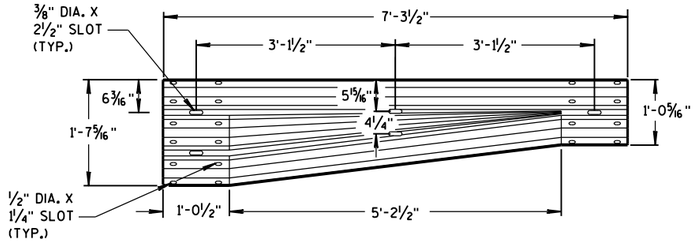
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

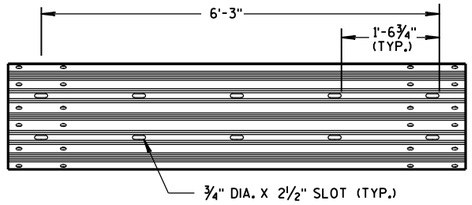
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

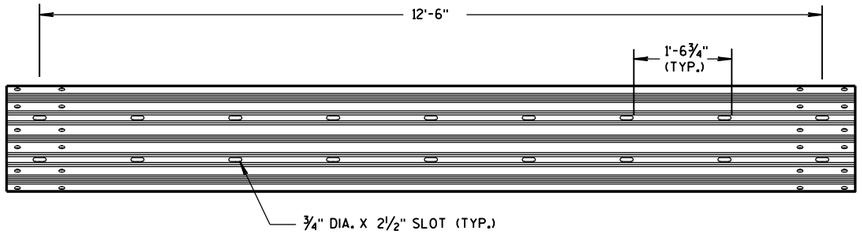
S.D.D. 14 B 45-4b



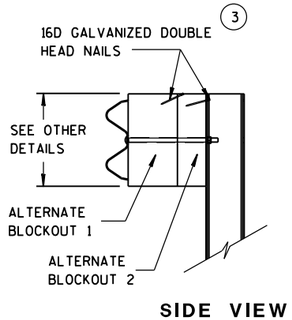
W-BEAM TO THRIE BEAM TRANSITION SECTION



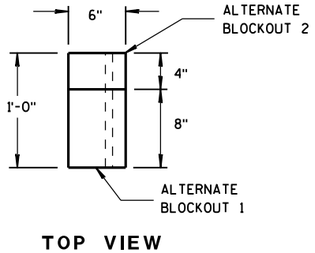
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

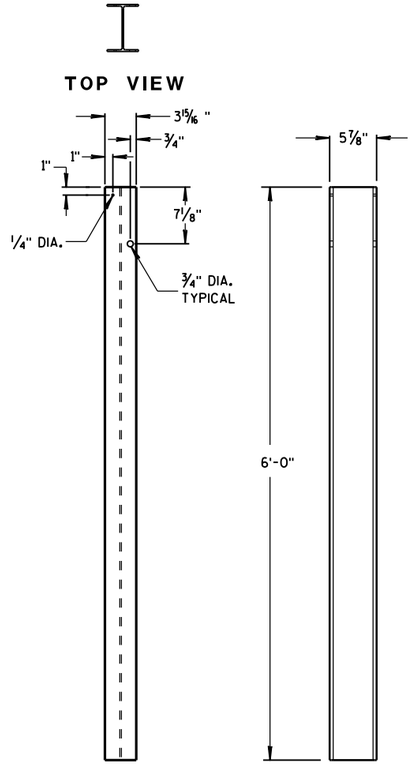


SIDE VIEW



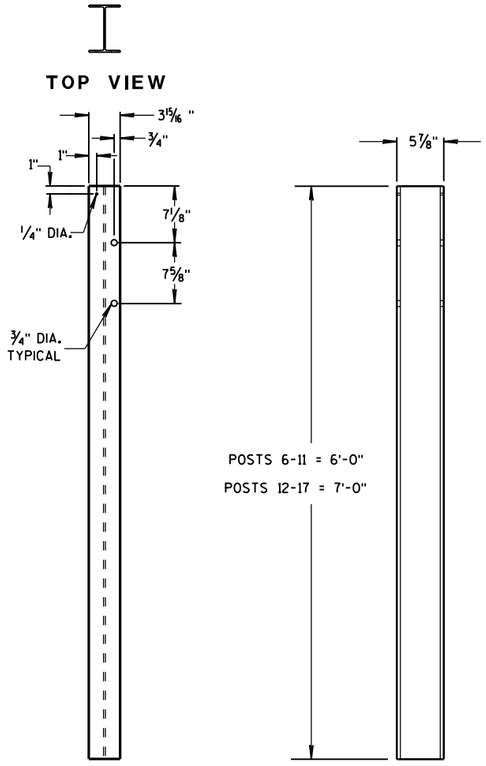
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



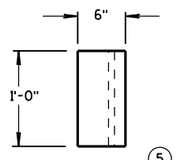
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

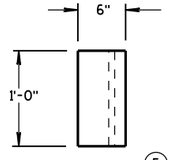


FRONT VIEW SIDE VIEW

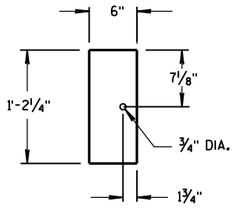
STEEL POSTS 6-17



TOP VIEW (5)

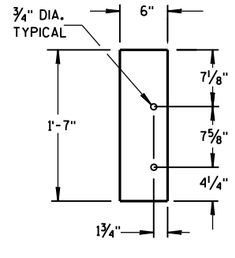


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

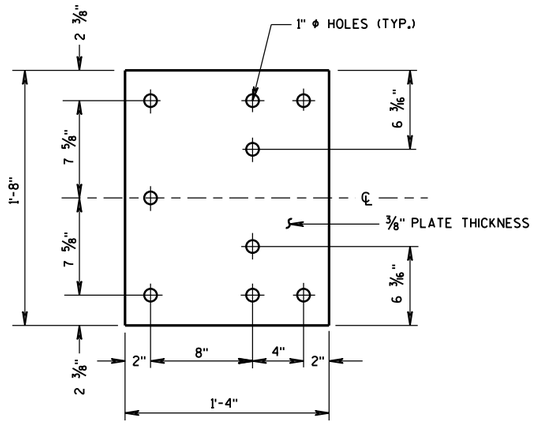
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

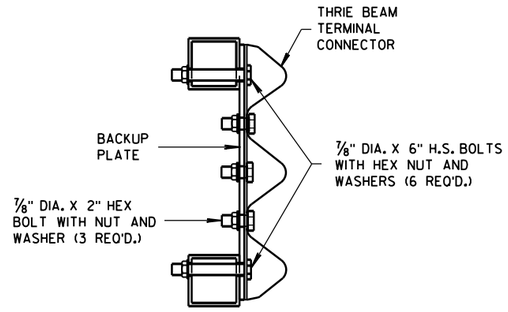
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

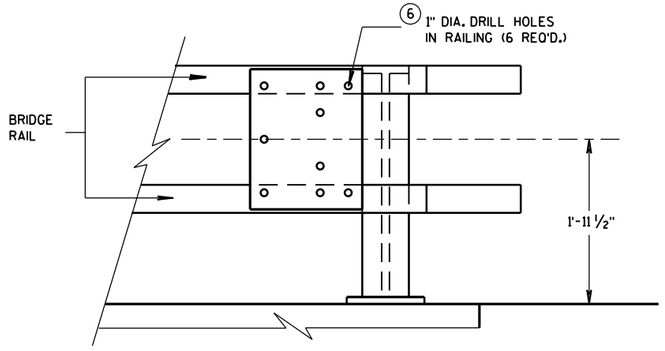
S.D.D. 14 B 45-4c



BACK-UP PLATE DETAIL



SECTION J-J

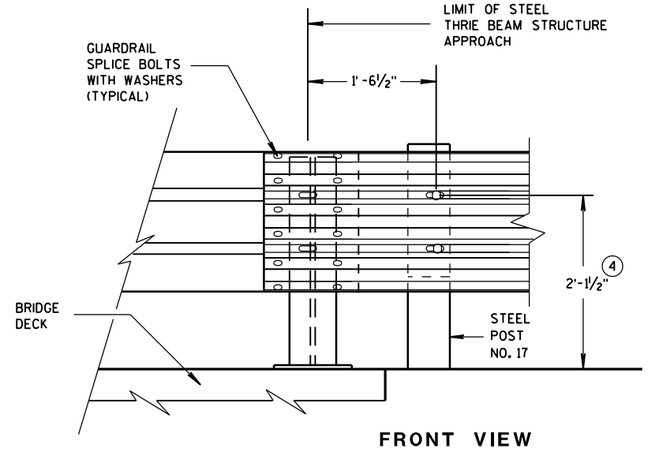


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

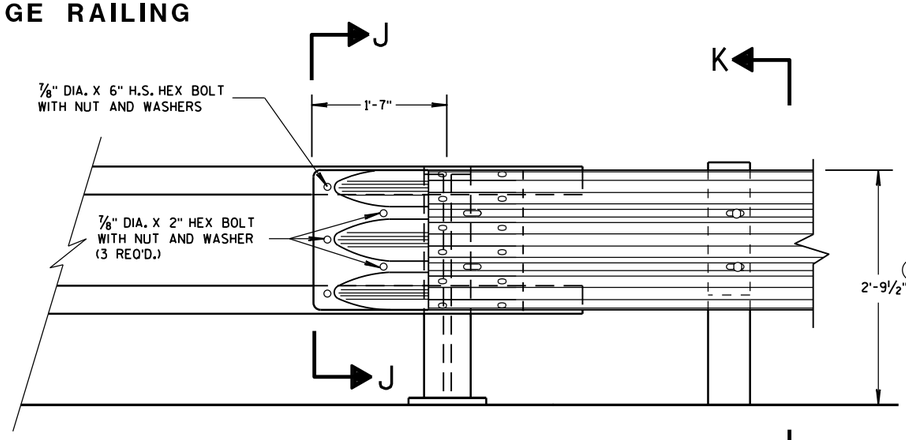
4 TOLERANCE FOR TOP OF BEAM IS ± 1".

6 DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

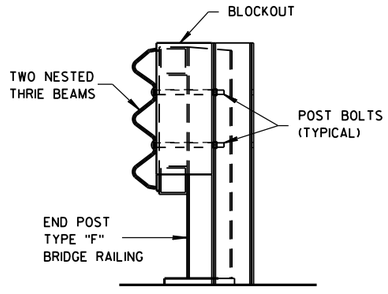


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

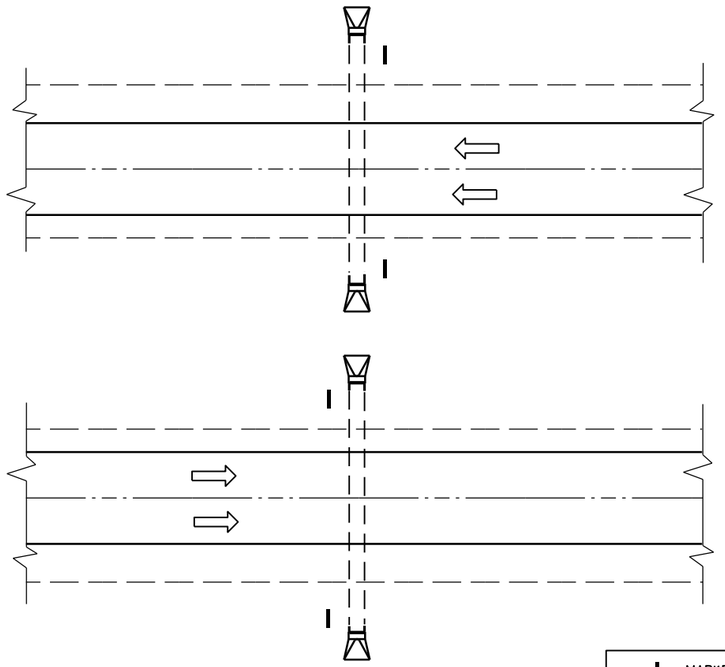
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 45-4g

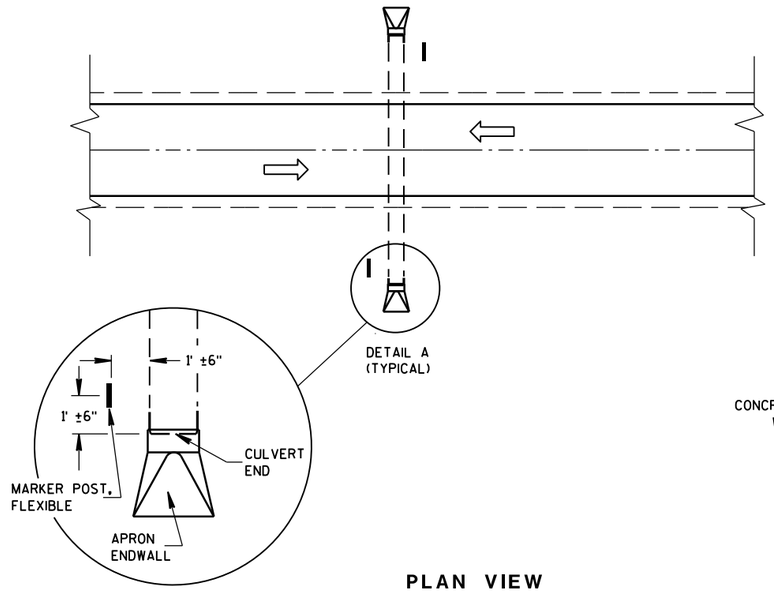
6

S.D.D. 14 B 45-4g



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

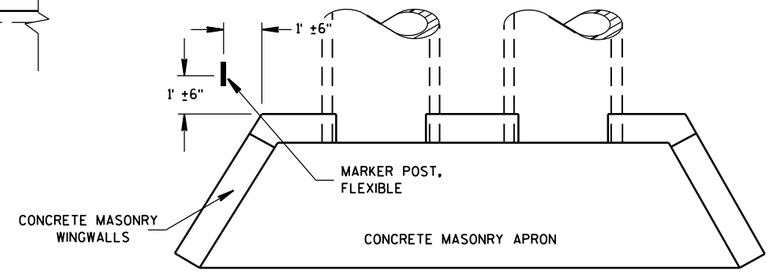
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

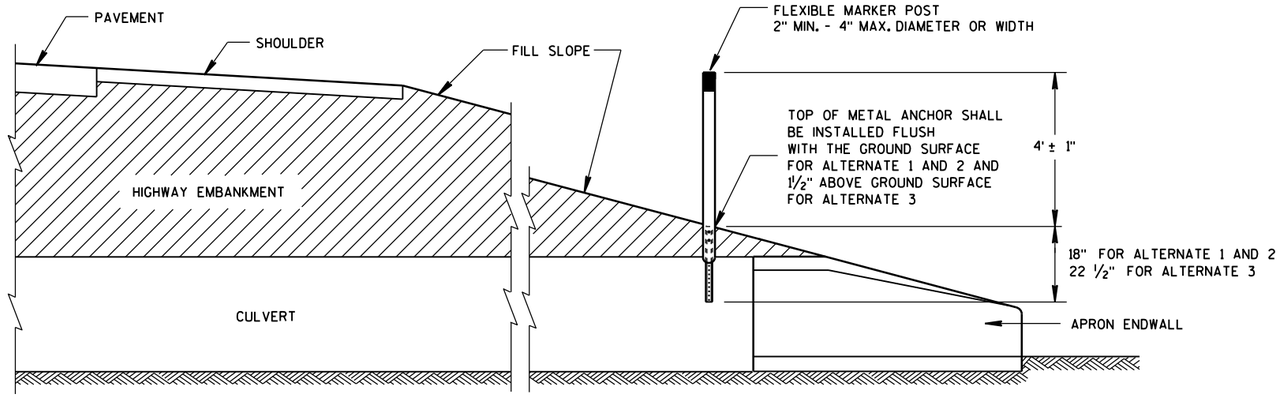
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

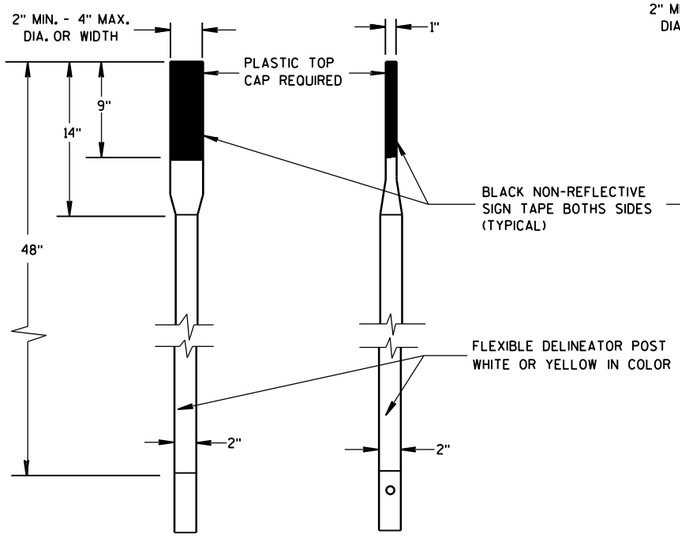
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

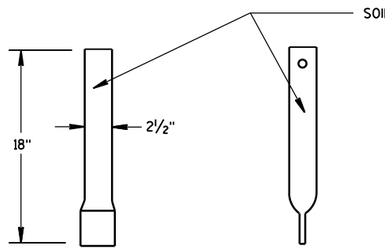
6

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

6

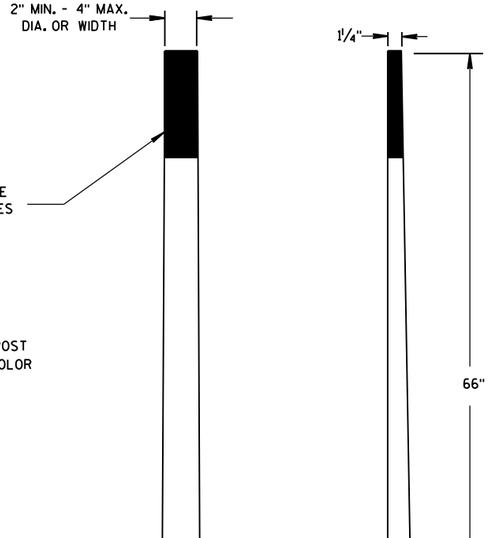
S.D.D. 15 A 3-2a





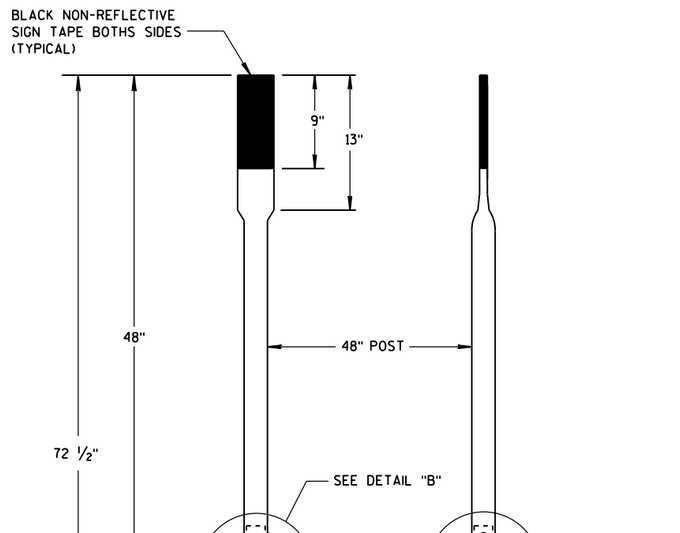
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

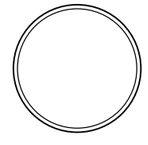
ALTERNATE 2



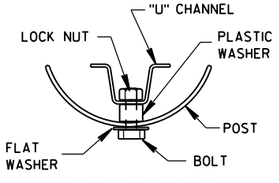
FRONT VIEW SIDE VIEW

ALTERNATE 3

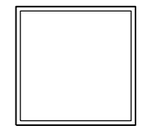
FLEXIBLE MARKER POSTS



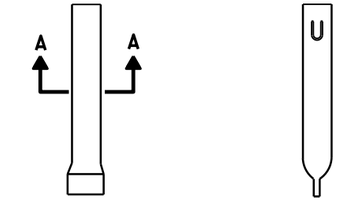
SECTION A-A



SECTION B-B

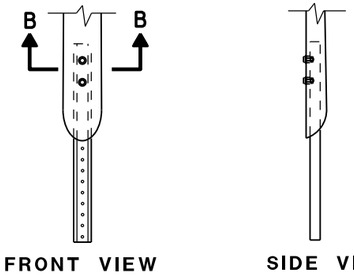


SECTION C-C



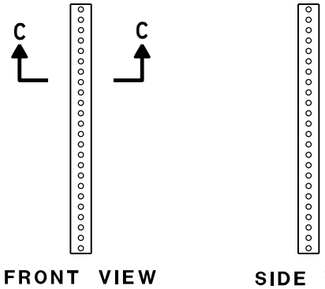
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

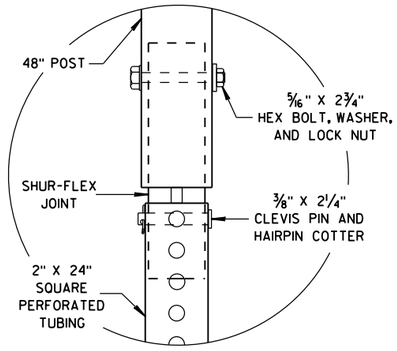
ALTERNATE 2



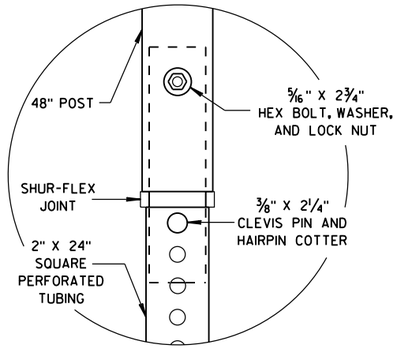
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

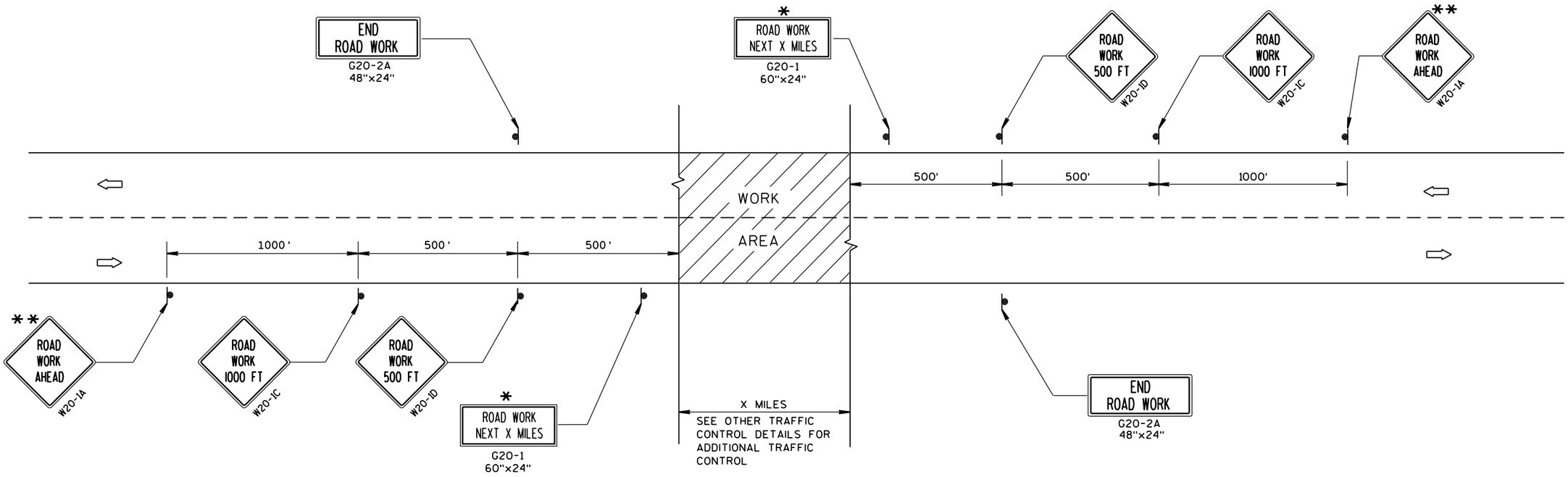
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

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

6

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



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

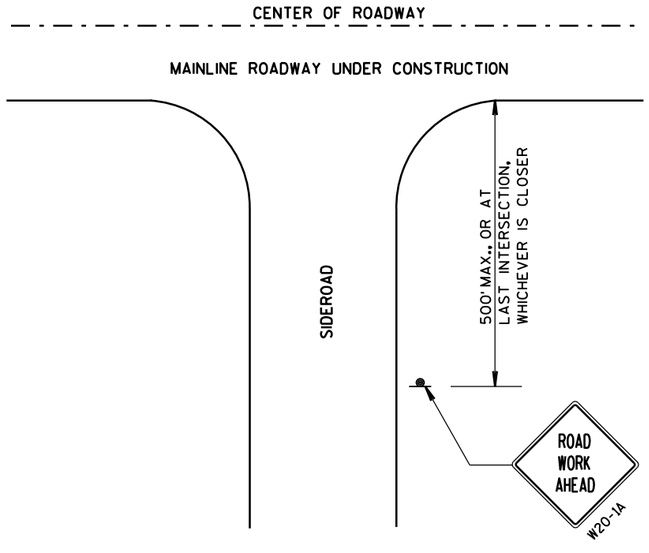
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

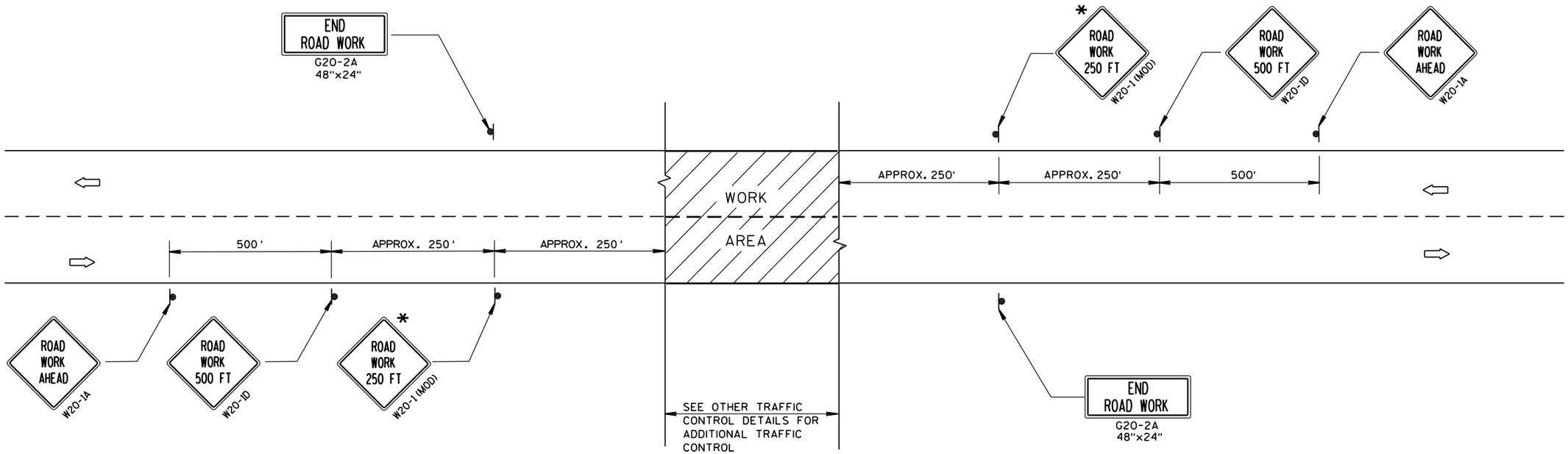
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

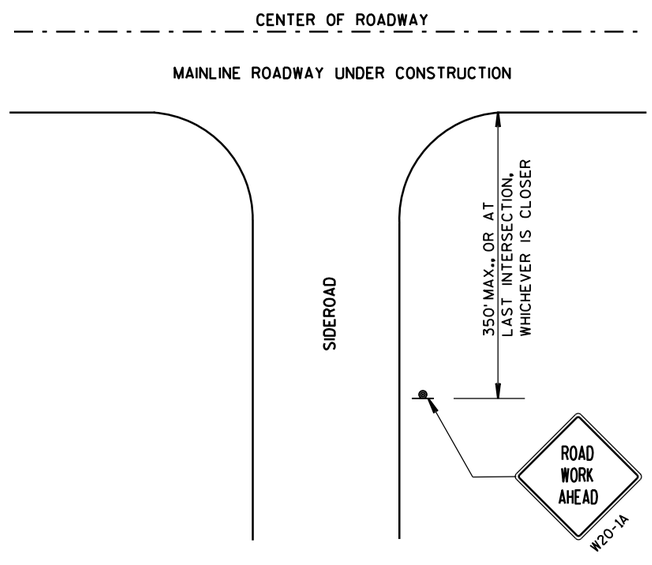
S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A 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

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

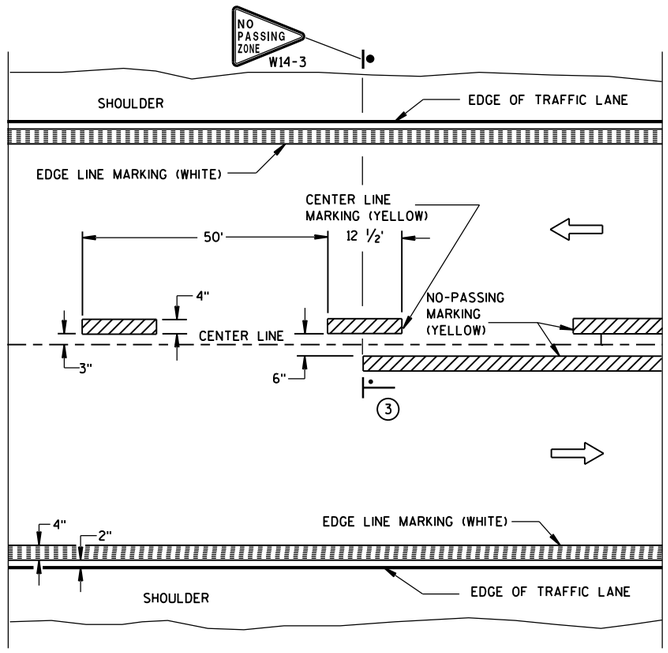
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN — IC
FHWA

6

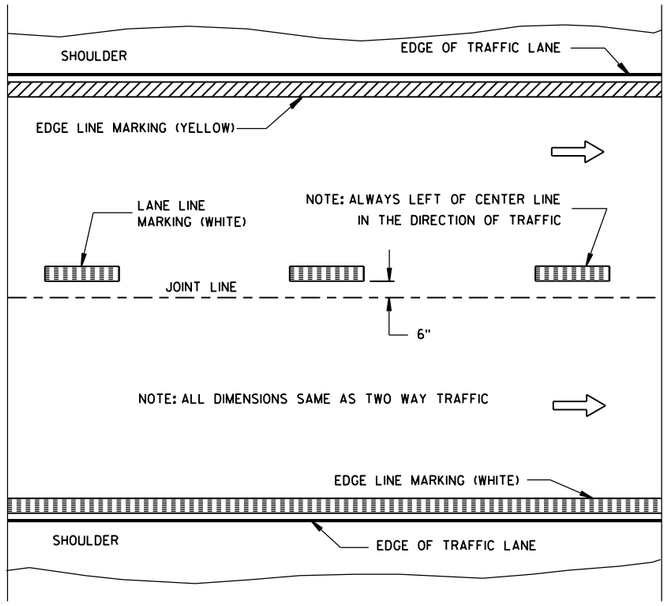
S.D.D. 15 C 5-3

6

S.D.D. 15 C 5-3

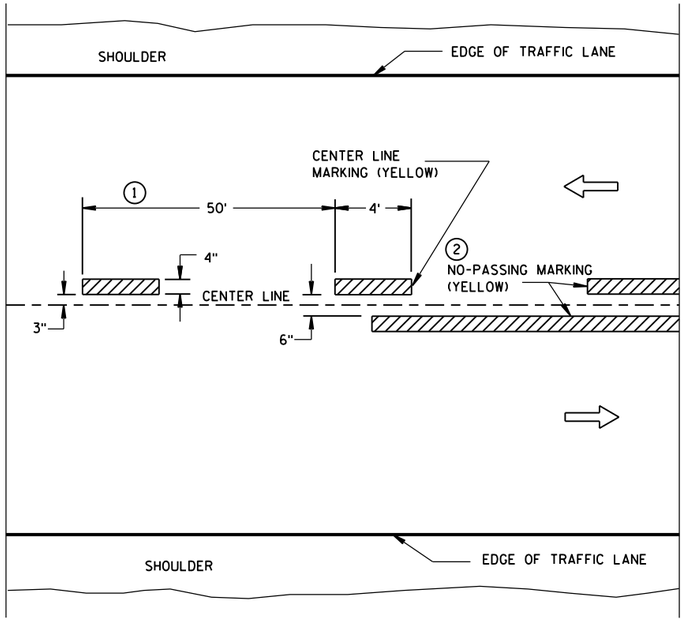


TWO WAY TRAFFIC

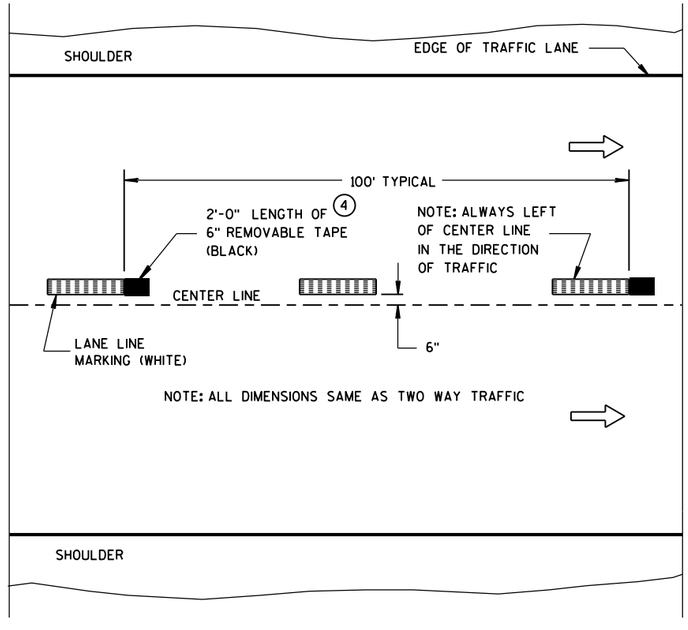


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

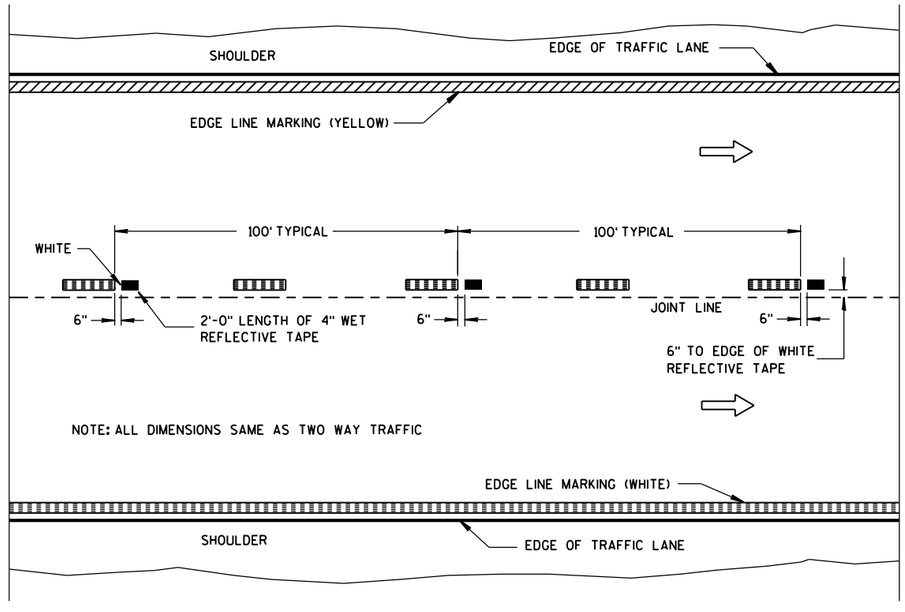
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

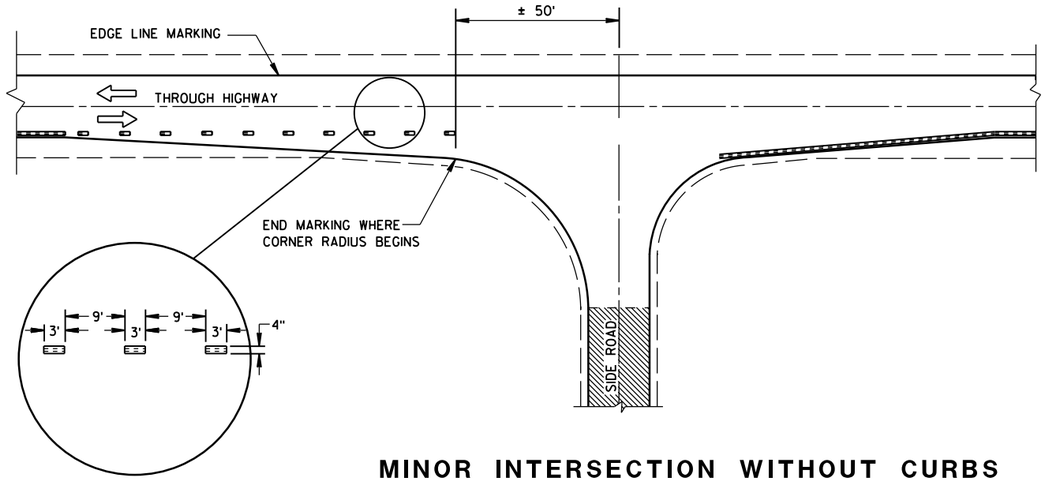
FHWA

6

S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

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

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

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

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

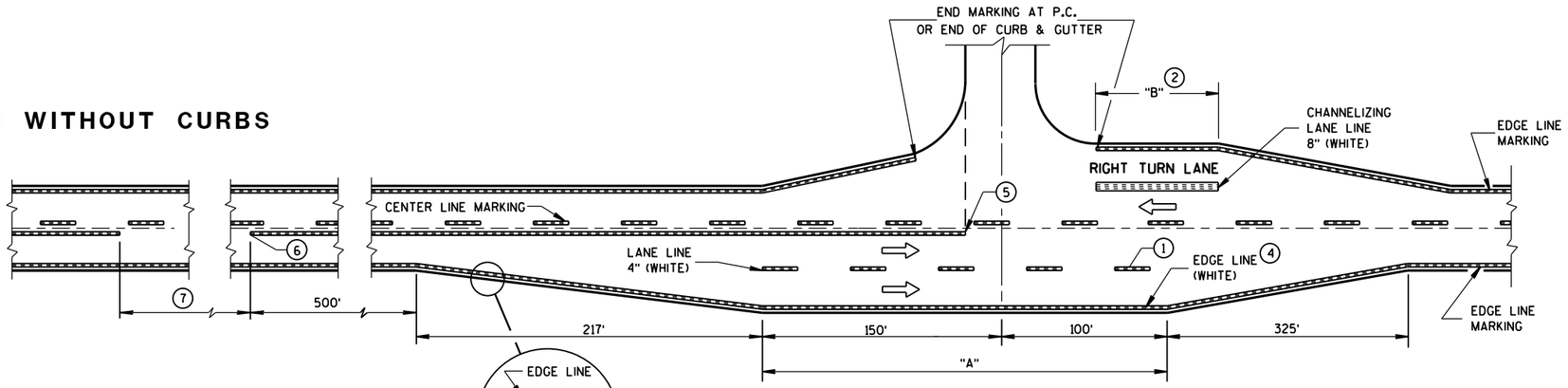
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

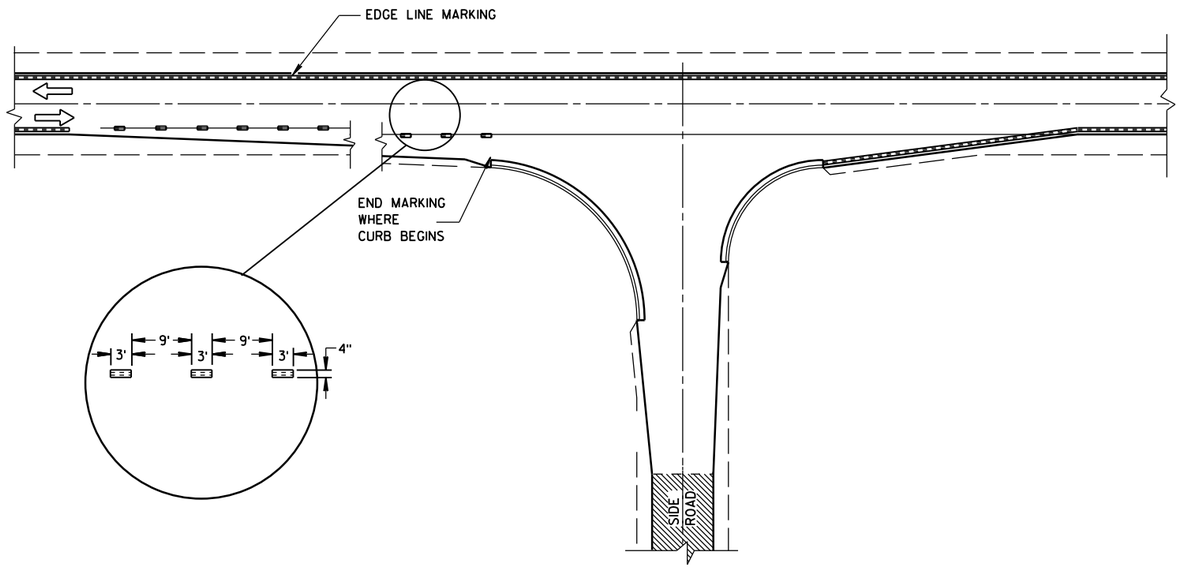
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



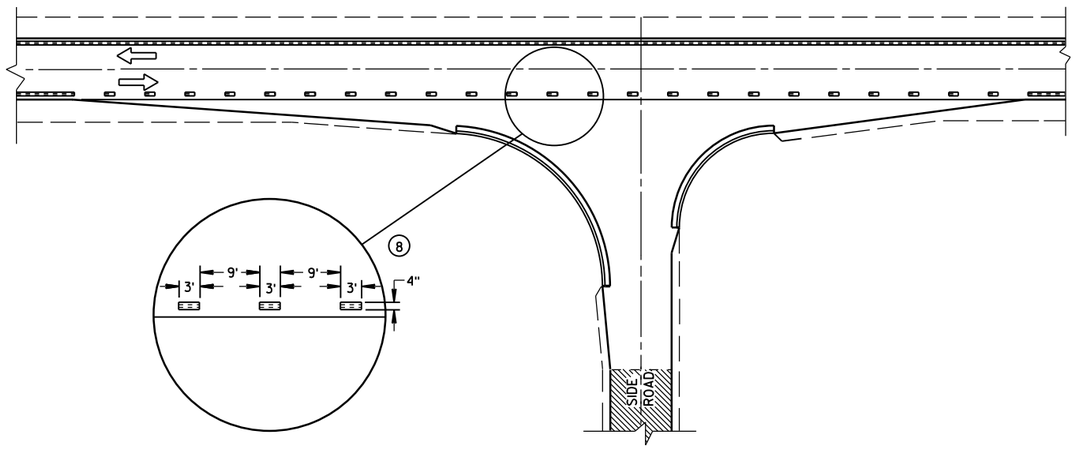
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

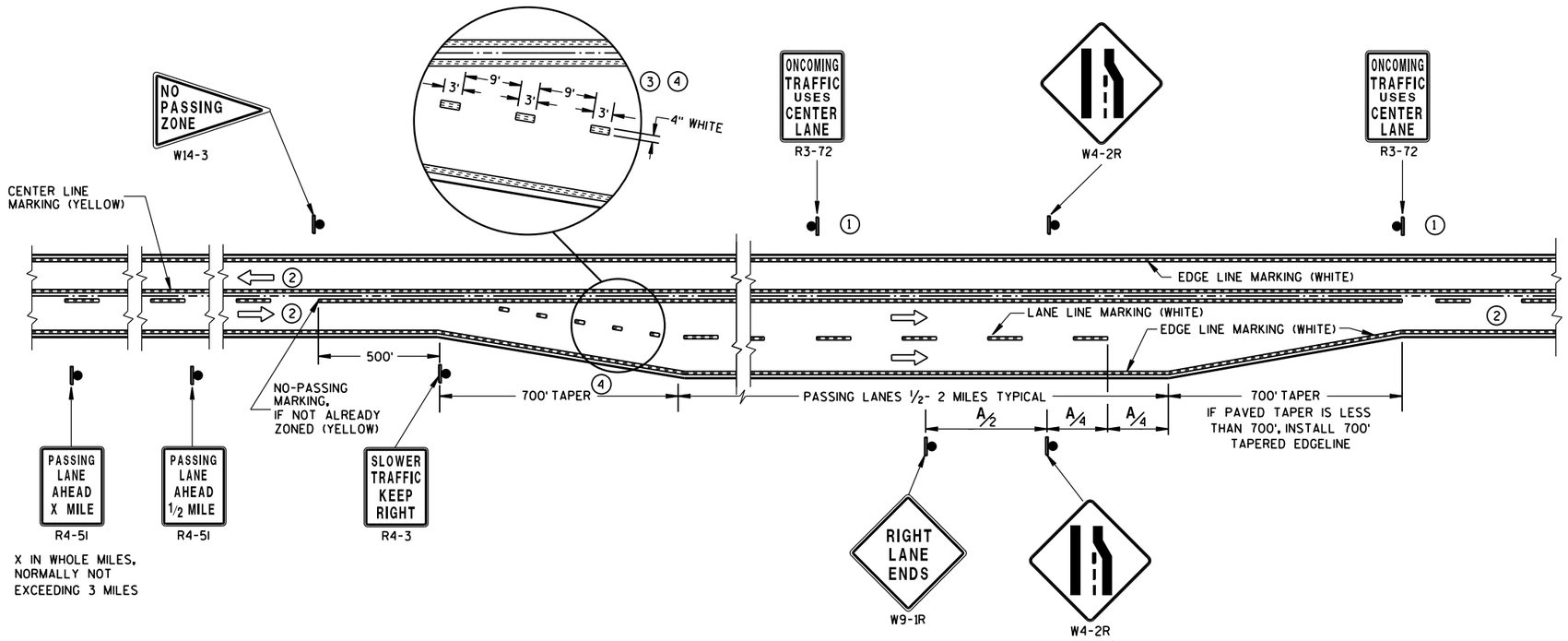
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 154

6

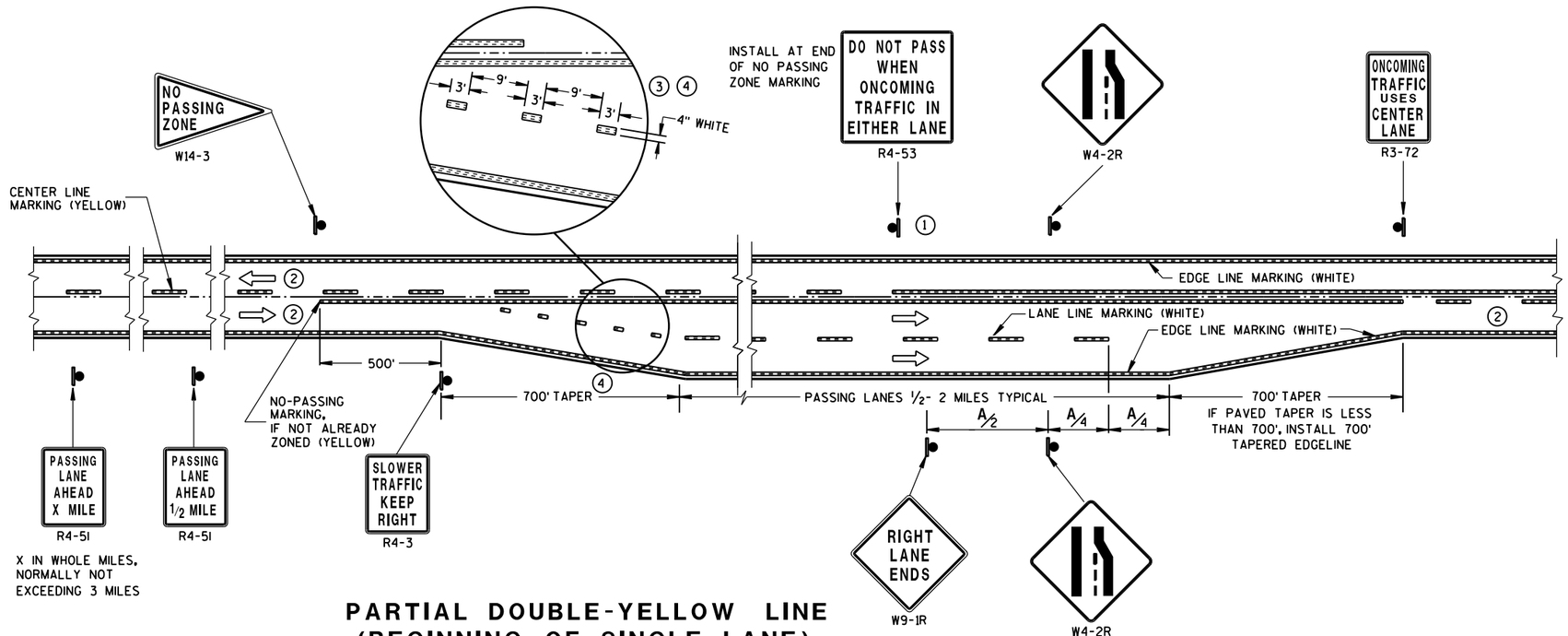
S.D.D. 15 C 8-16b

6

S.D.D. 15 C 8-16b



SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

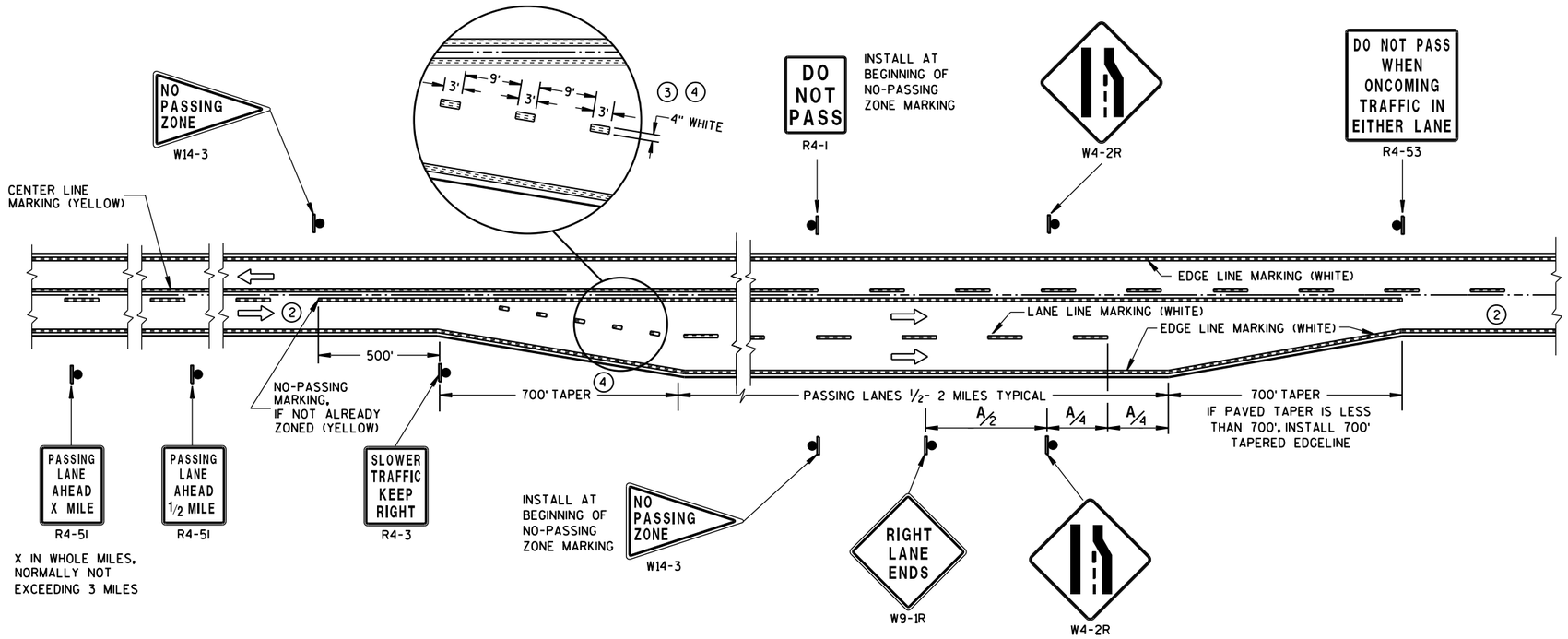
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

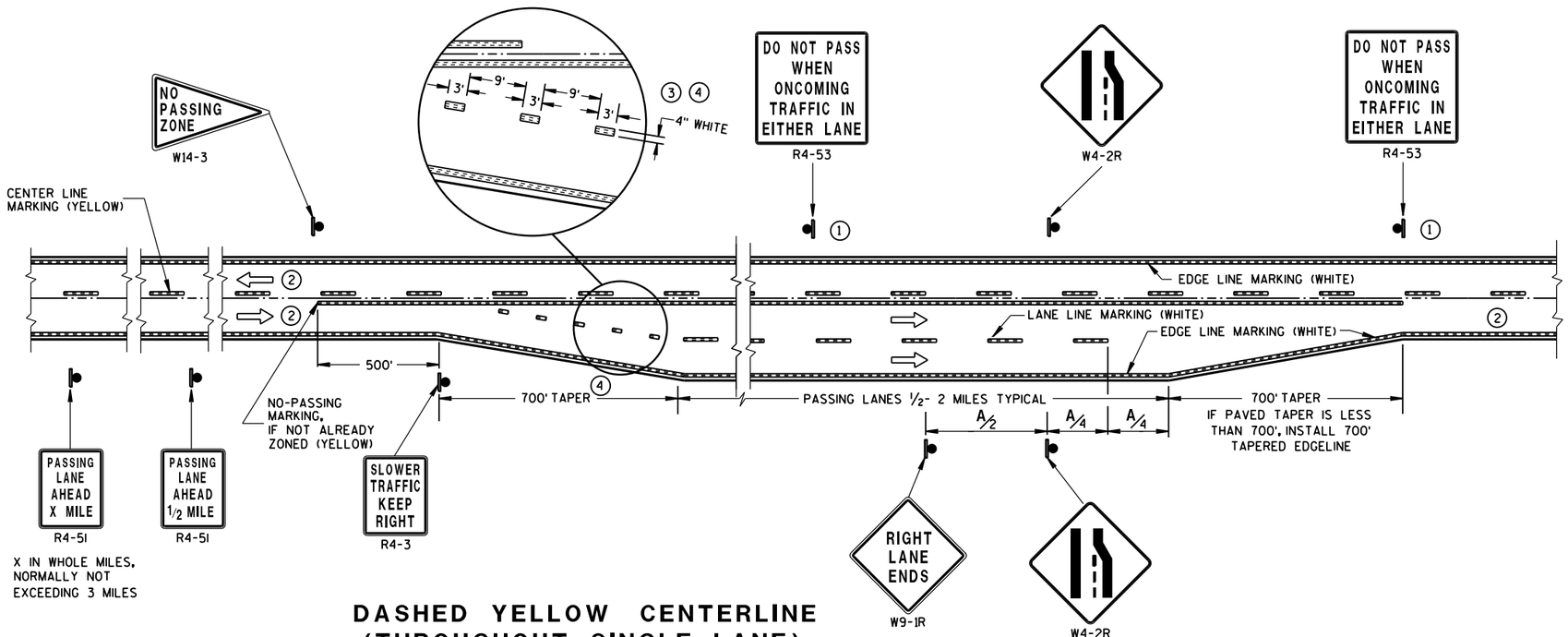
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-16c



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1/2 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

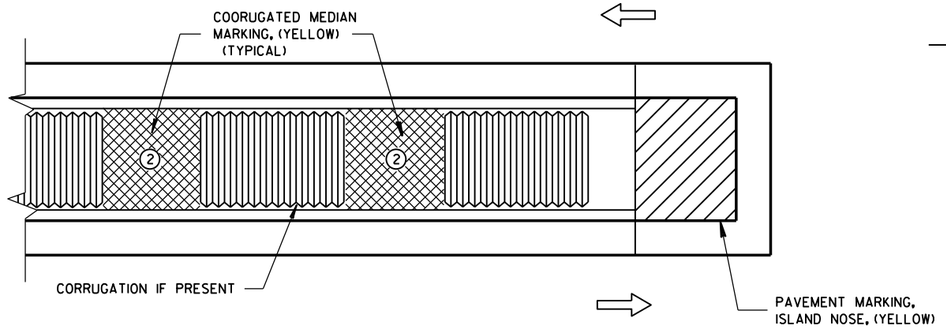
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

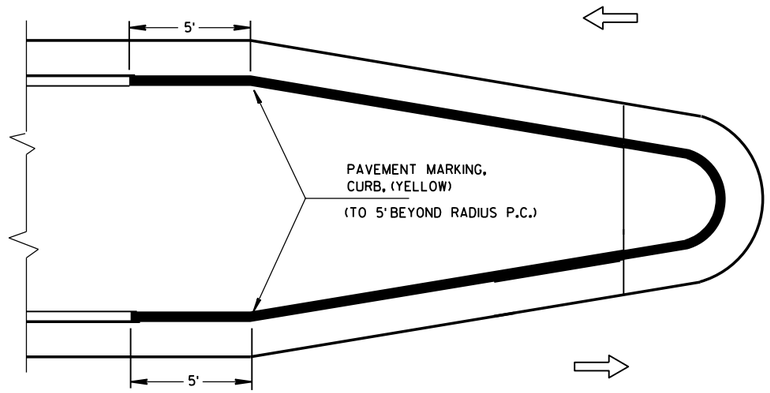
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

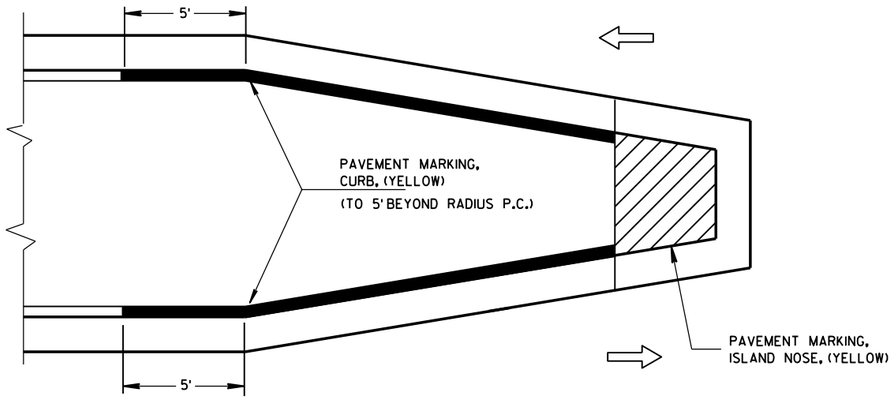
S.D.D. 15 C 8-16d



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

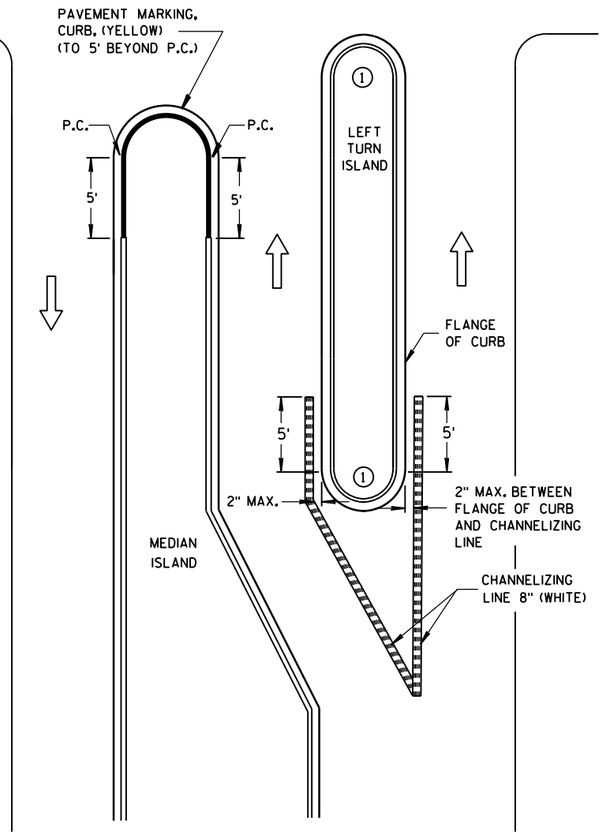


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

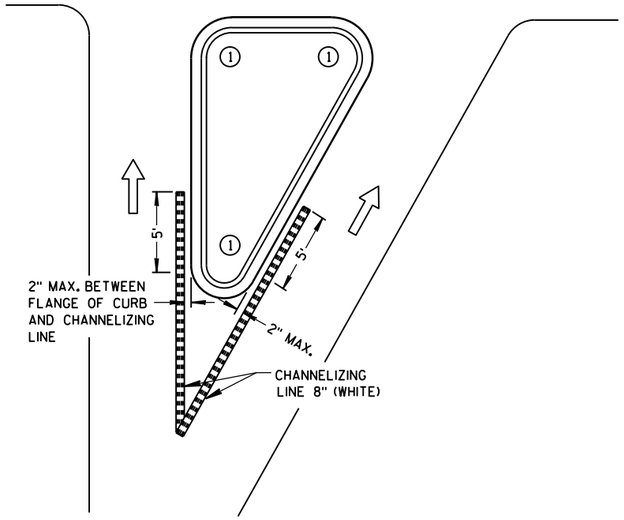


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-16f

6

S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

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

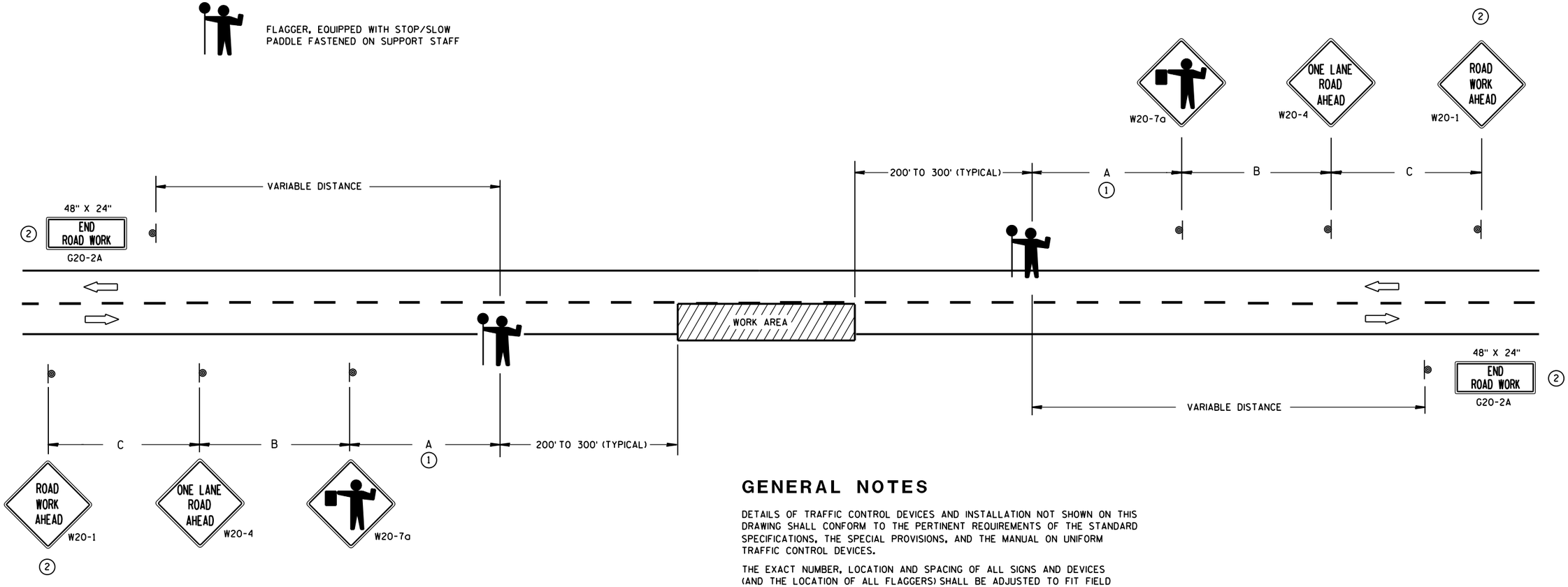
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

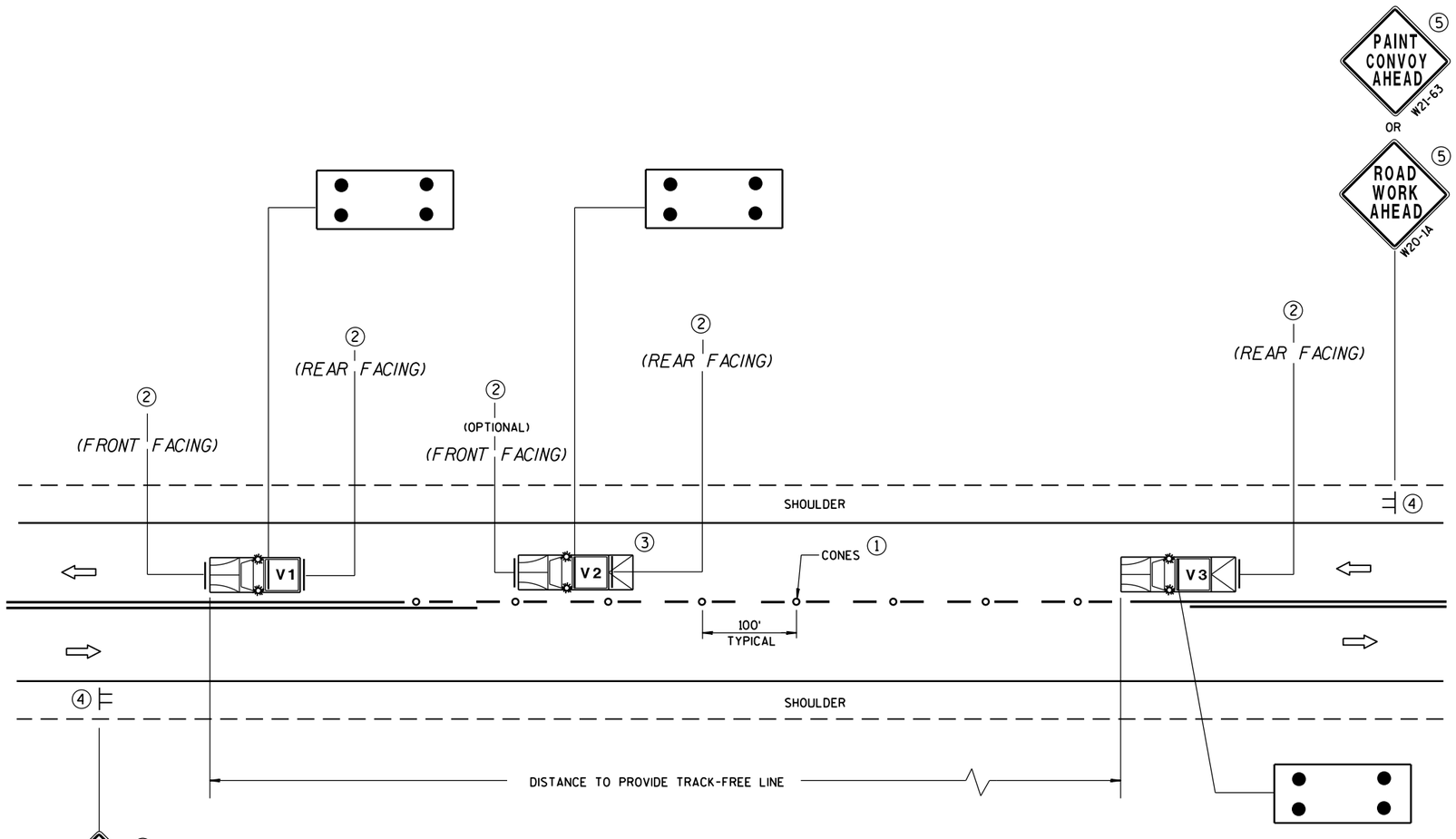
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

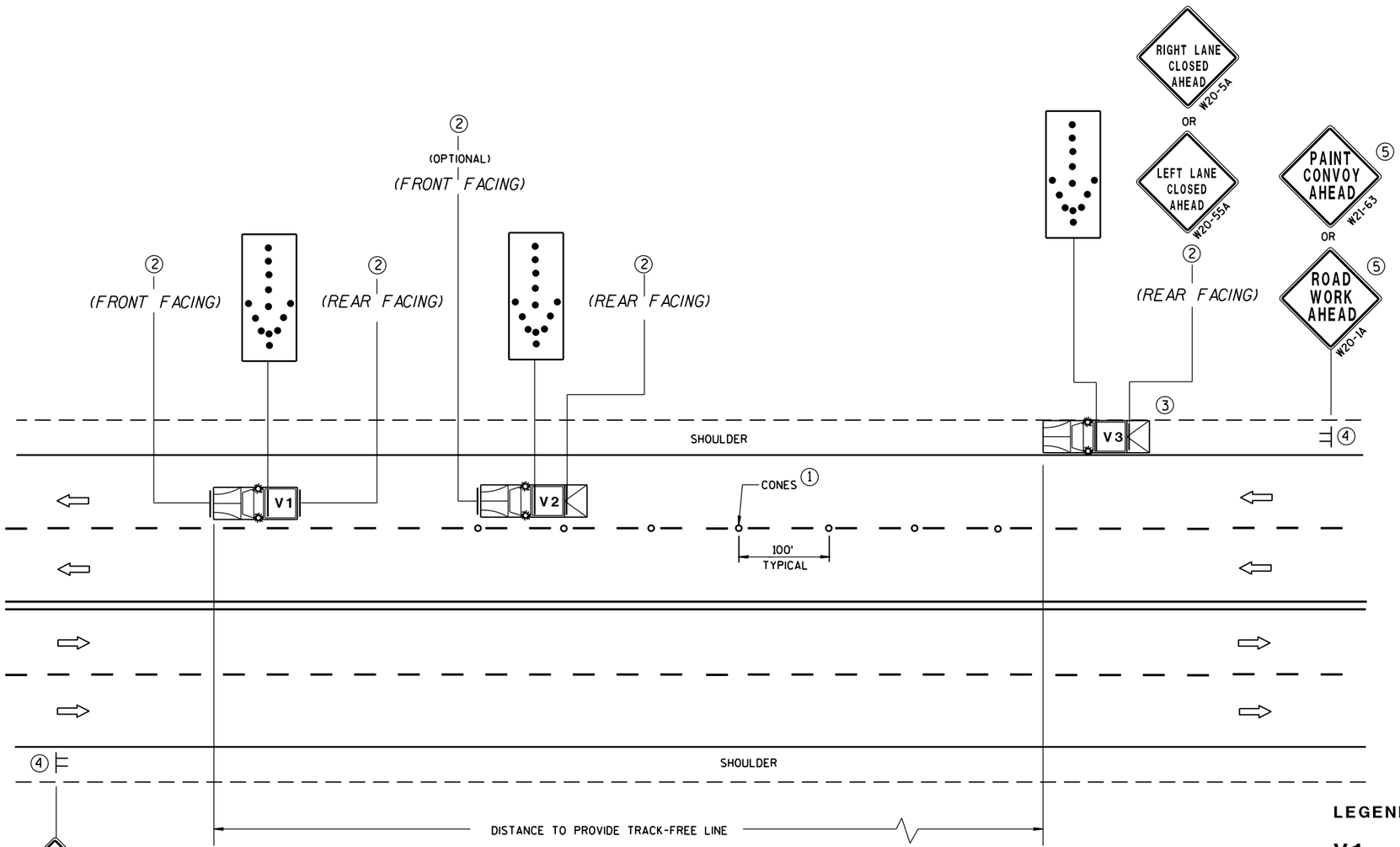
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6

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

6

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



PAINT CONVOY AHEAD W21-63
OR
ROAD WORK AHEAD W20-1A

MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

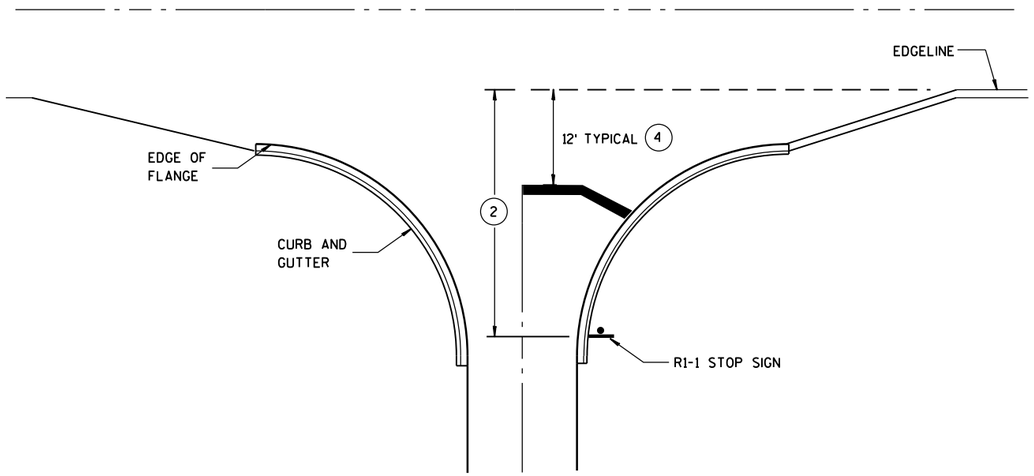
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

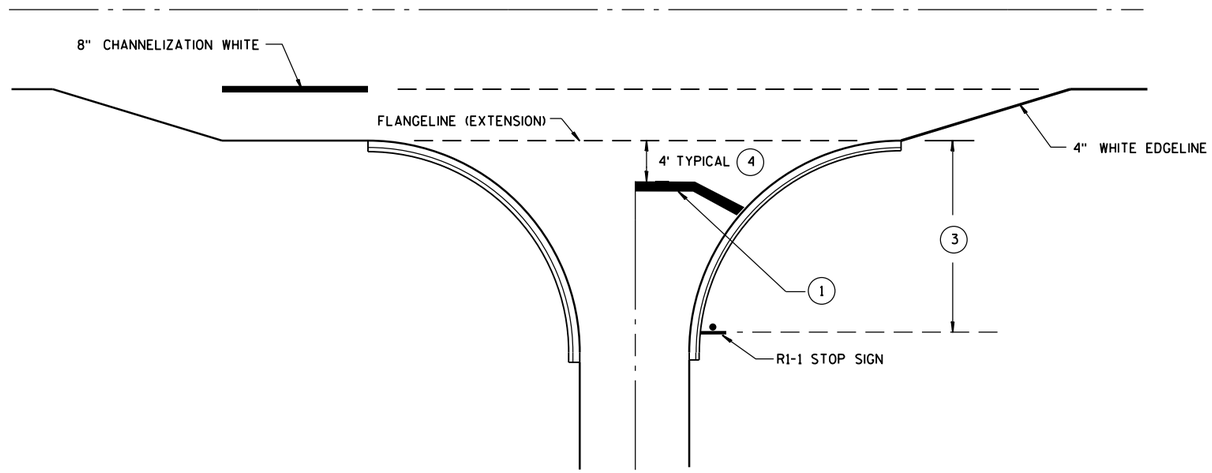
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

6

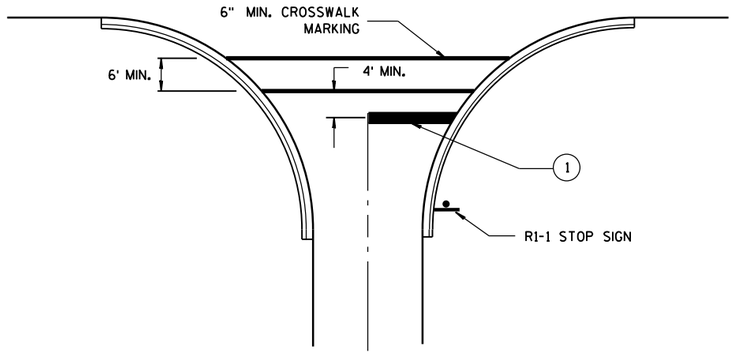
S.D.D. 15 C 19-4b



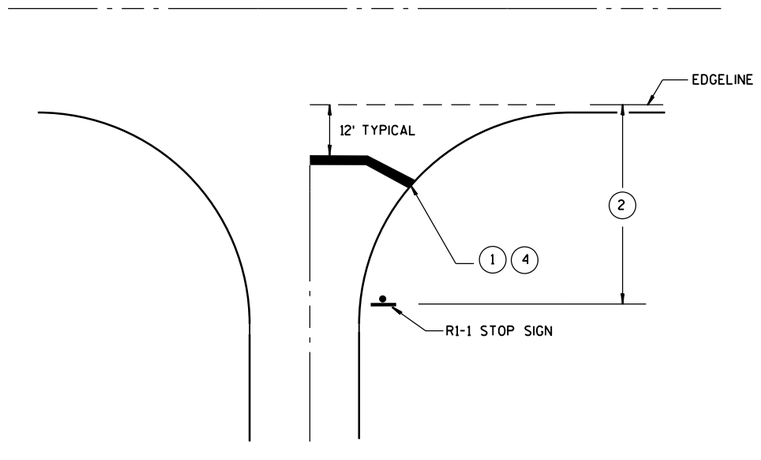
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

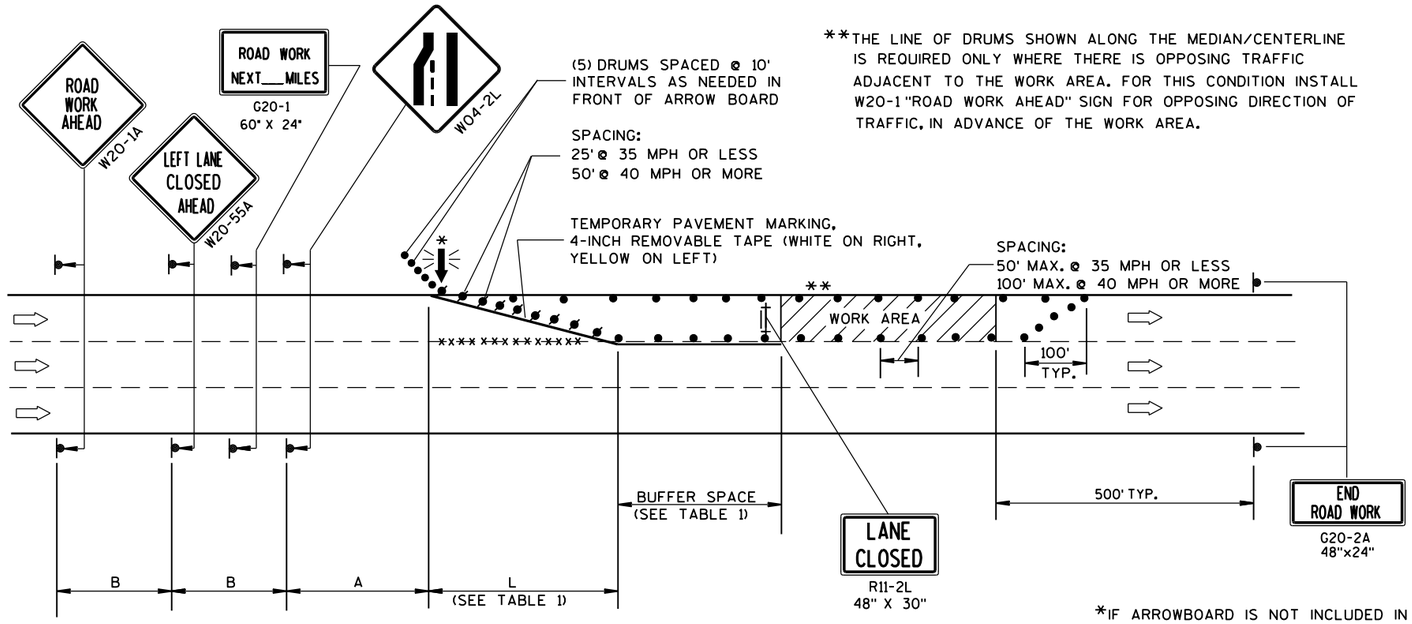
4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible]NEER

FHWA

6

S.D.D. 15 C 33-2



**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"

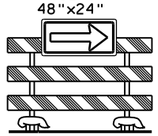


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

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.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

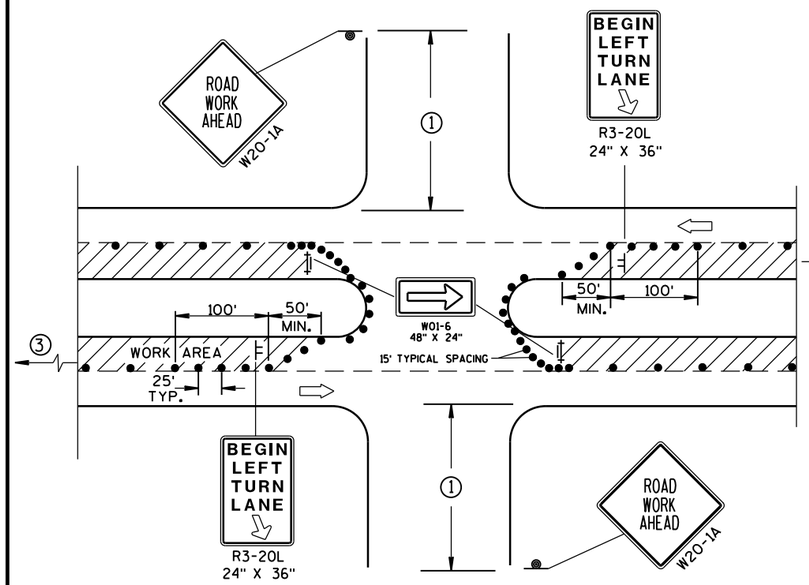
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER

6

S.D.D. 15 D 20-4

6

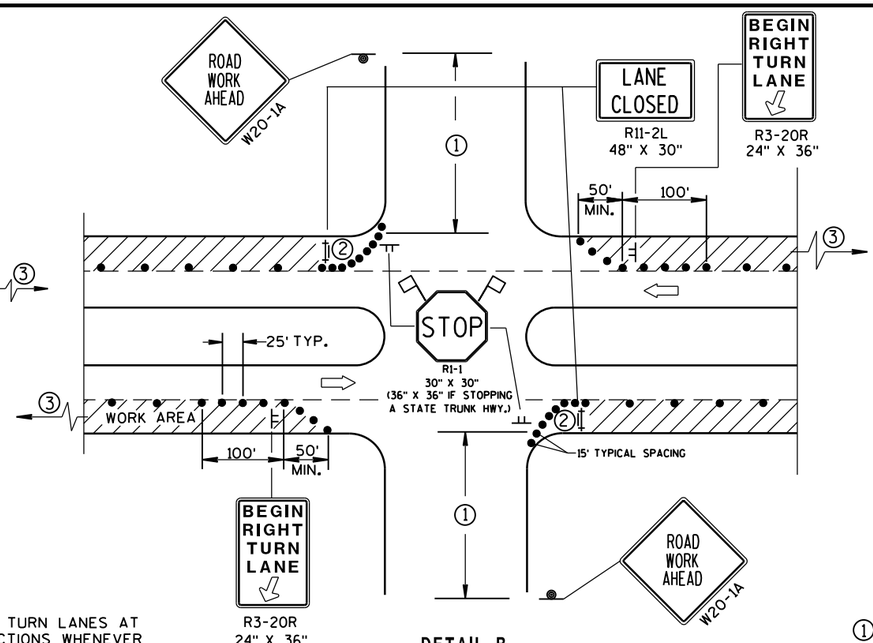
S.D.D. 15 D 20-4



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.

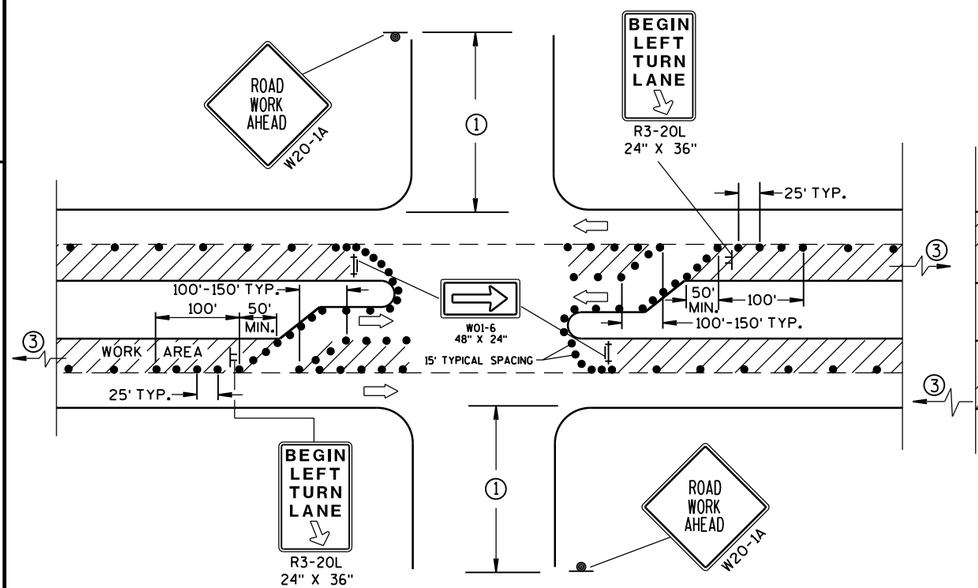
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

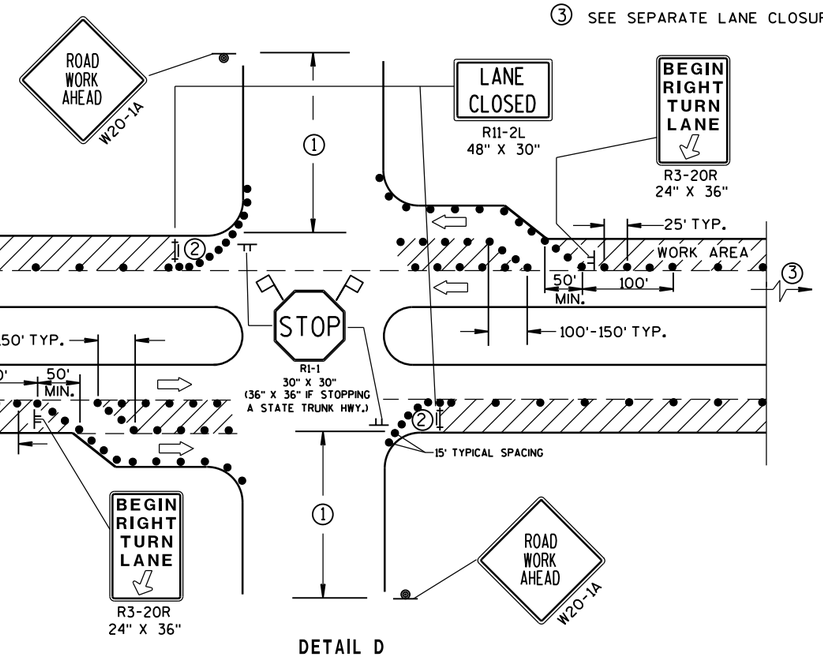
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(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

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Anakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 21-4

LEGEND

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

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

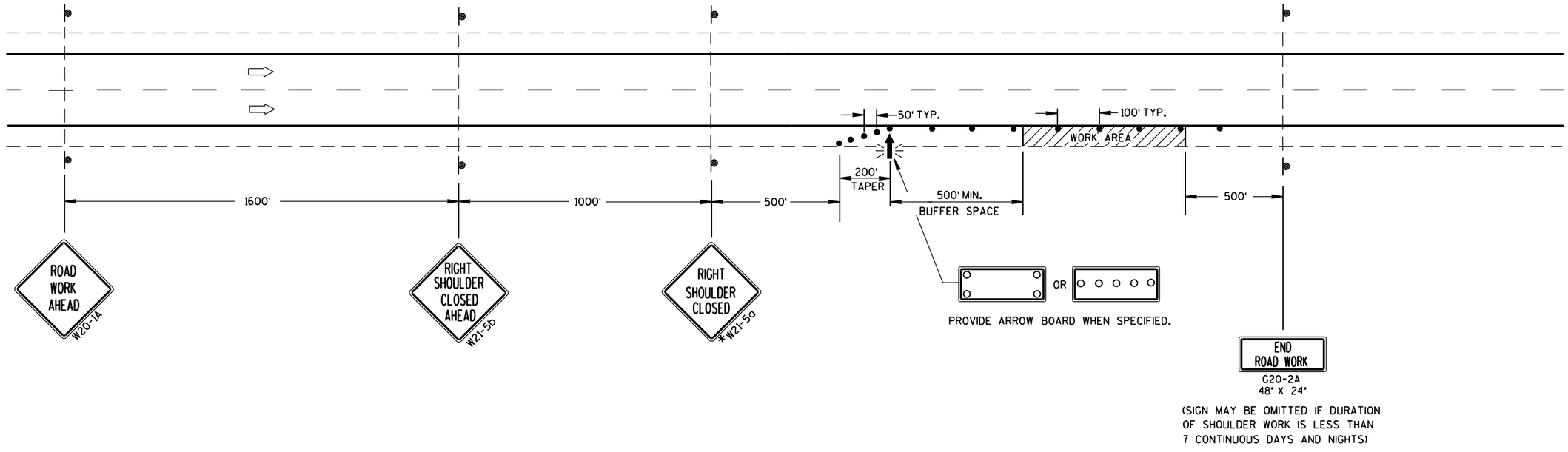
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

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

FHWA

6

S.D.D. 15 D 27-3

GENERAL NOTES

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

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

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

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

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

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

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

TABLE A

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

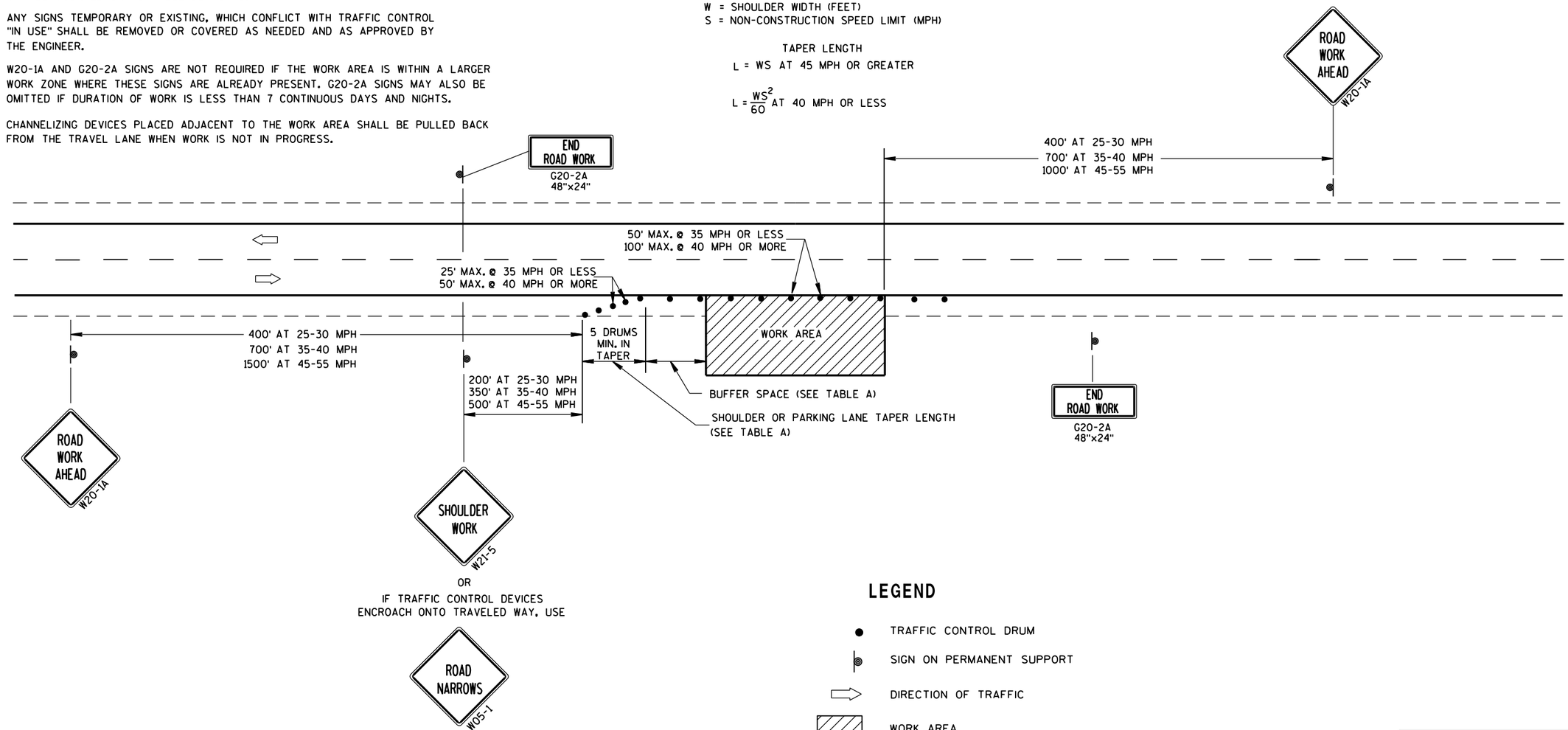
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

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

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



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

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

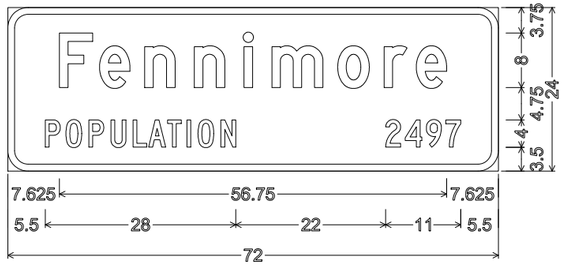
FHWA

6

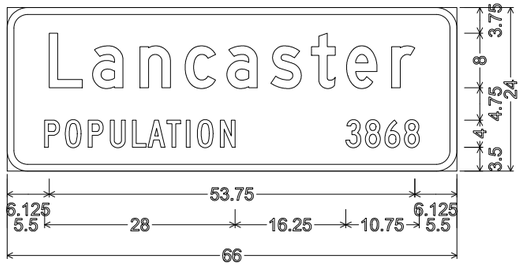
S.D.D. 15 D 28-3

NOTES

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



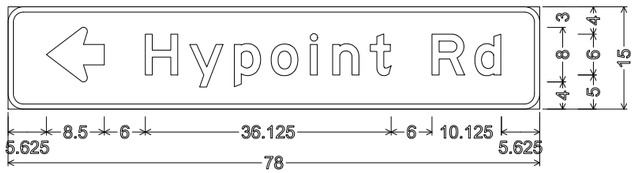
I2-3; 3.000" Radius, 1.000" Border,
"Fennimore" D; "POPULATION" C; "2497" C



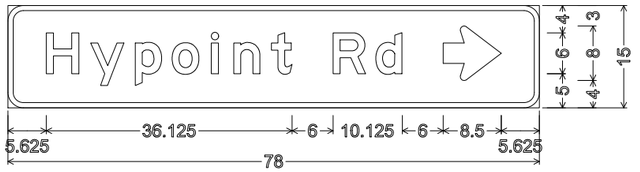
I2-3; 3.000" Radius, 1.000" Border,
"Lancaster" D; "POPULATION" C; "3868" C



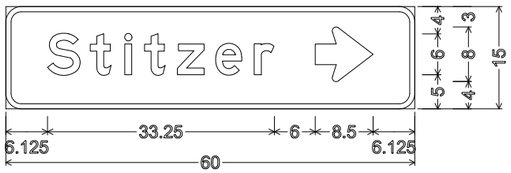
D2-1; 2.250" Radius, 0.750" Border



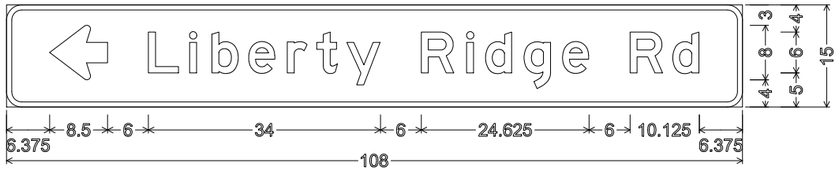
D1-1; 2.250" Radius, 0.750" Border



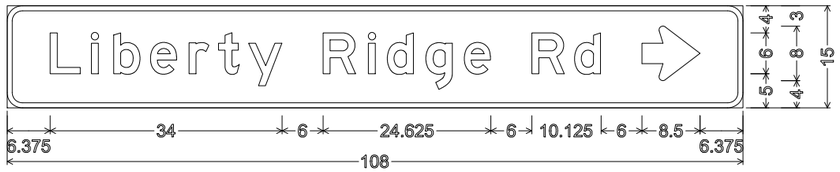
D1-1; 2.250" Radius, 0.750" Border



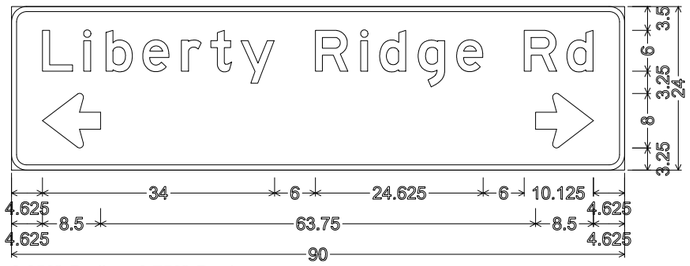
D1-1;
2.250" Radius, 0.750" Border



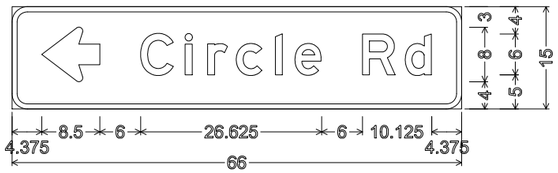
D1-1; 2.250" Radius, 0.750" Border



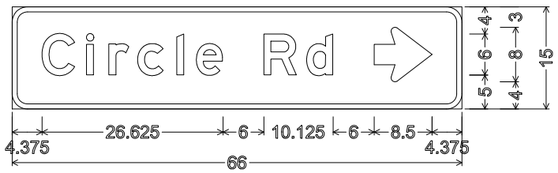
D1-1; 2.250" Radius, 0.750" Border



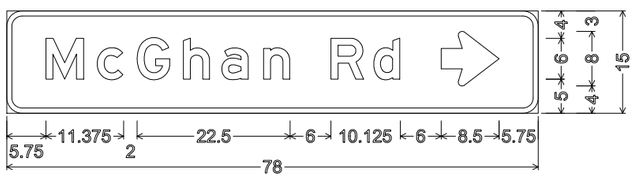
2.250" Radius, 0.750" Border



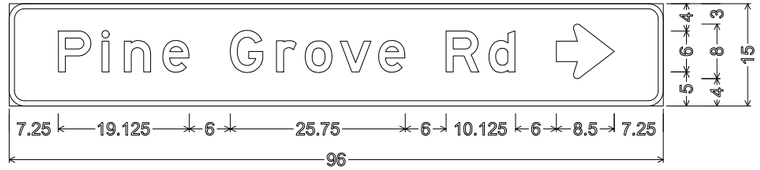
D1-1; 2.250" Radius, 0.750" Border



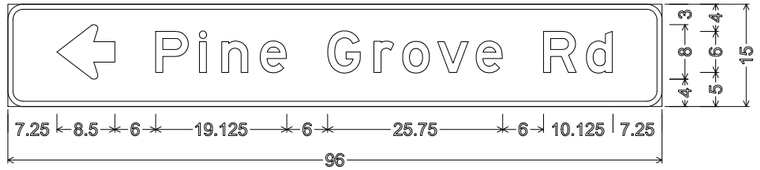
D1-1; 2.250" Radius, 0.750" Border



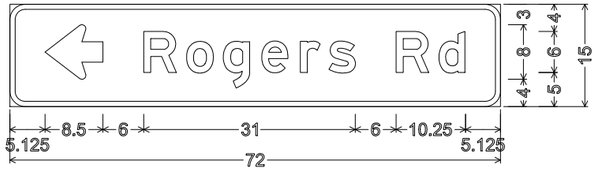
D1-1; 2.250" Radius, 0.750" Border



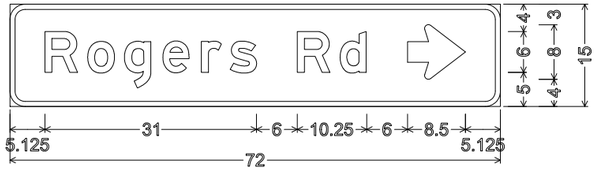
D1-1; 2.250" Radius, 0.750" Border



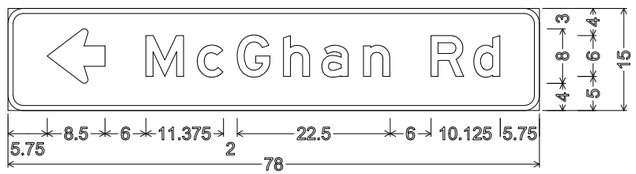
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



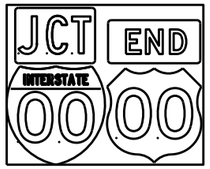
D1-1; 2.250" Radius, 0.750" Border

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	SIGN PLATES	SHEET NO: 166	E

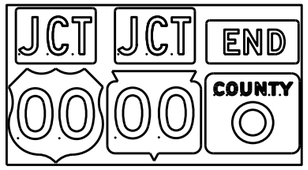
TYPICAL ASSEMBLIES



J1-1



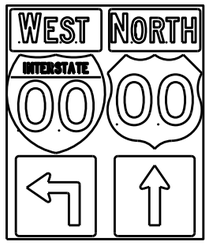
J1-2



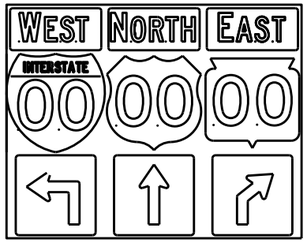
J1-3



J2-1



J2-2

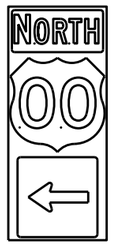


J2-3

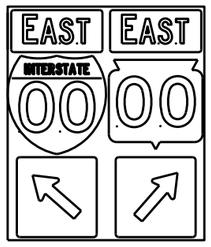


JV

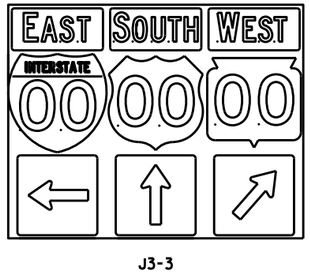
(Typical Vertical J-Assembly
See Note 10 and 11)



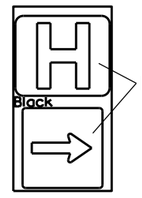
J3-1



J3-2



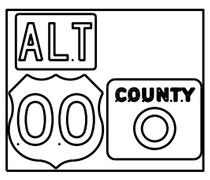
J3-3



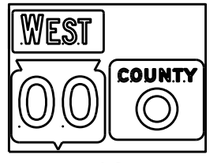
JH-1



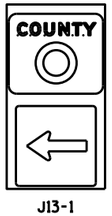
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

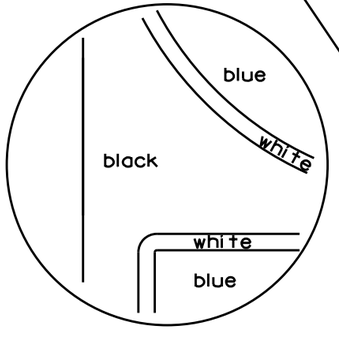


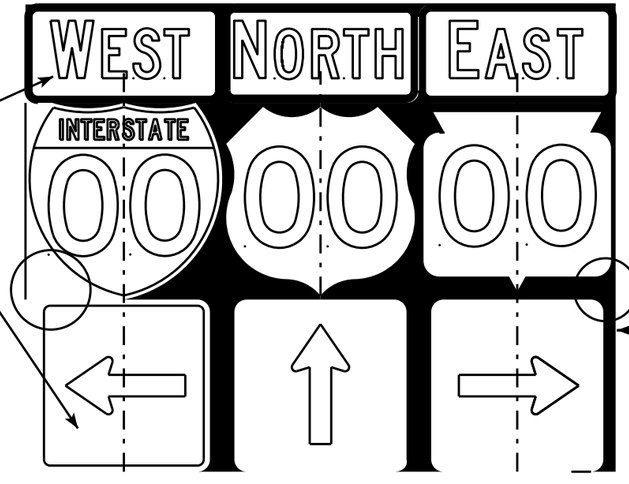
J23-1

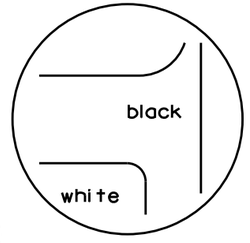


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

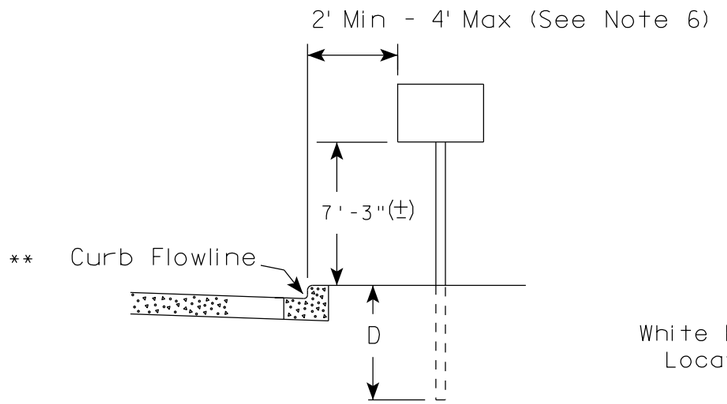
APPROVED Matthew R Rauch
for State Traffic Engineer

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

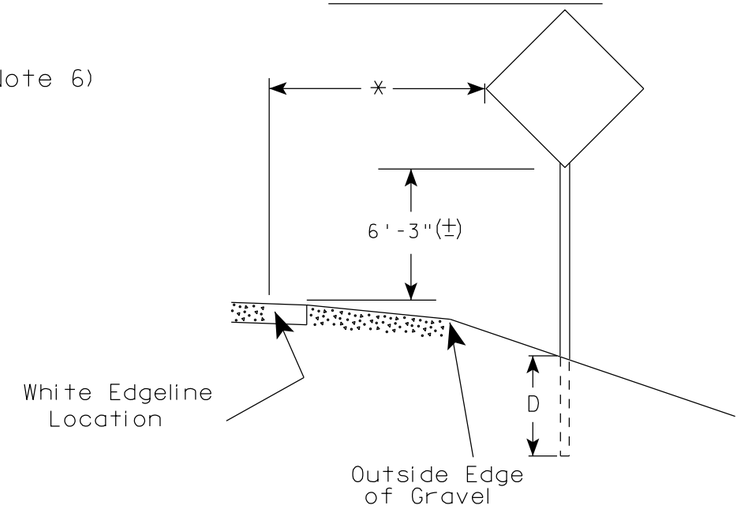
PROJECT NO: SHEET NO: E

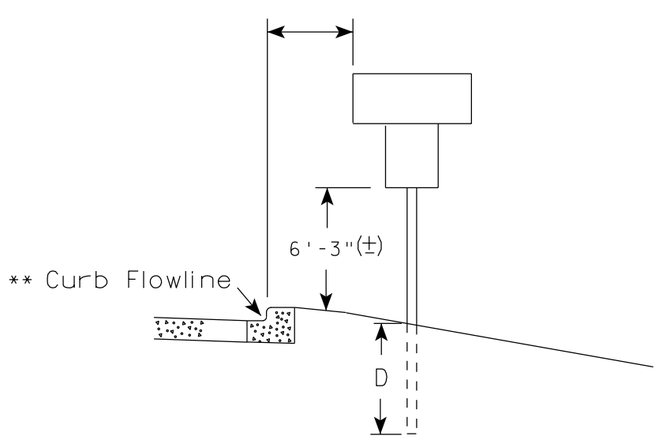
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

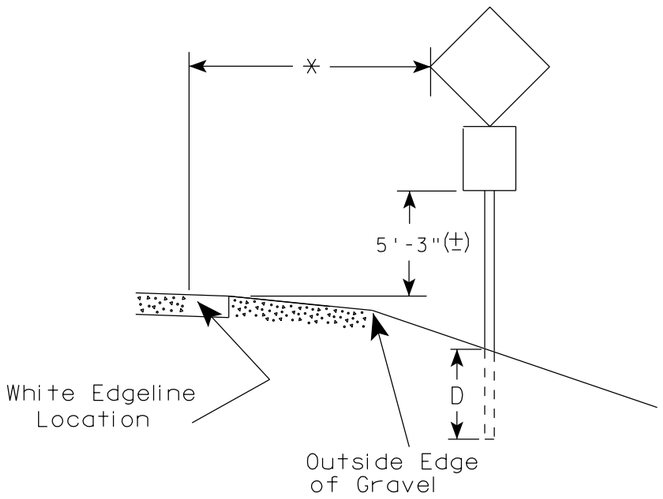
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

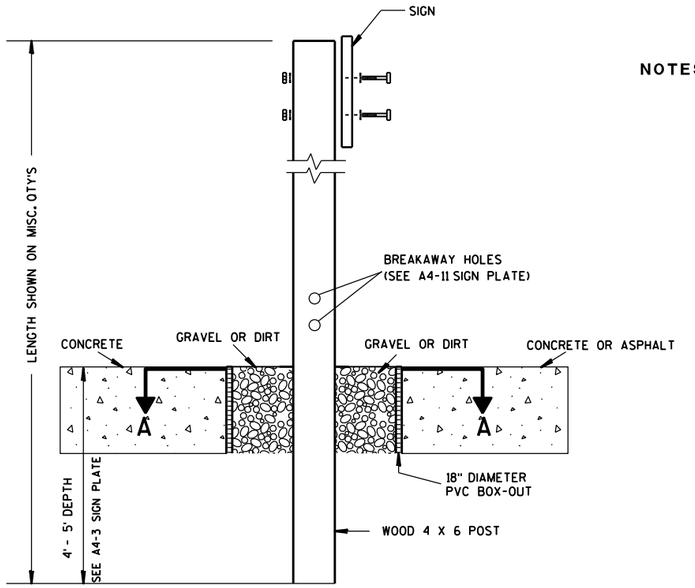
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

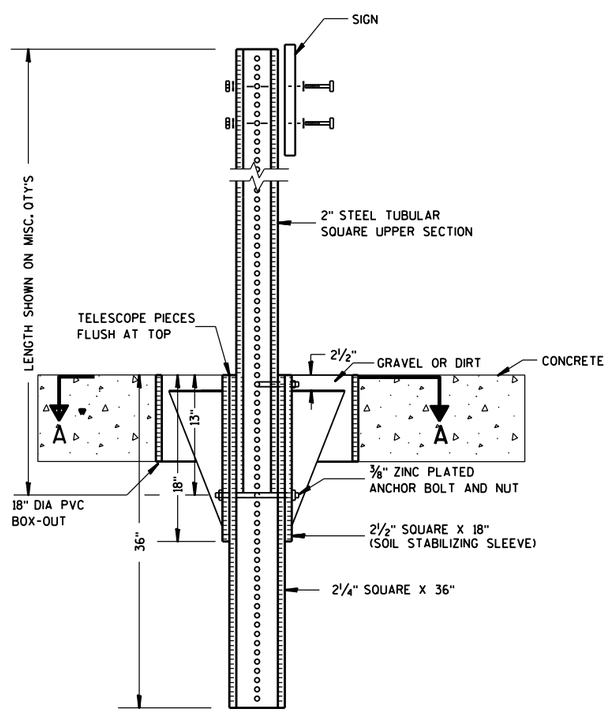
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

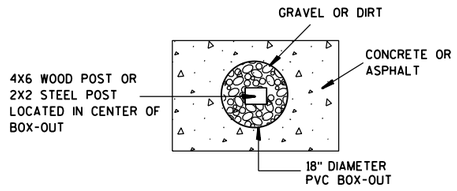
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

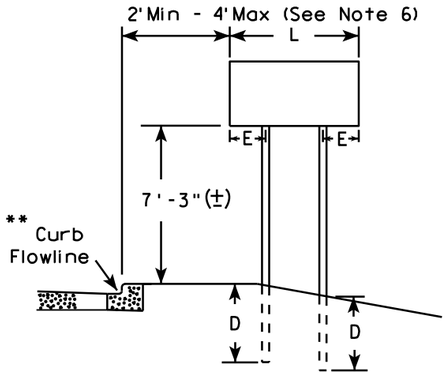
APPROVED Matthew R Rauch
for State Traffic Engineer

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

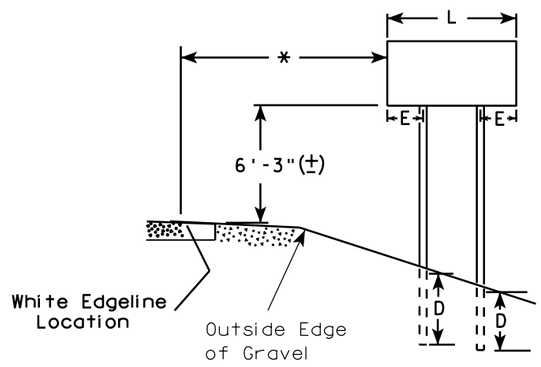
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

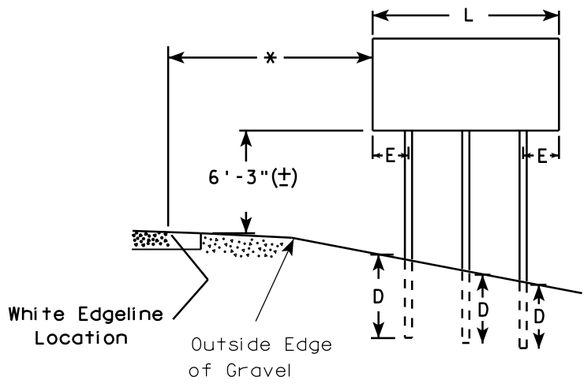
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

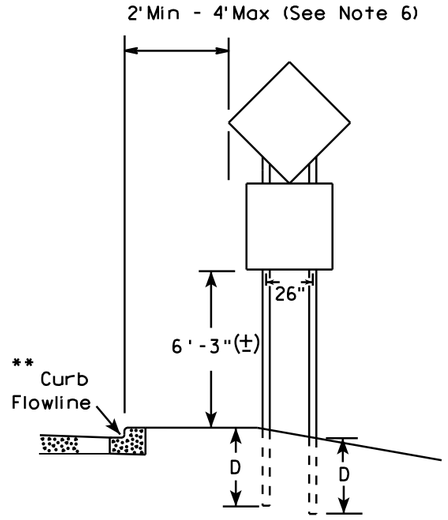
URBAN AREA



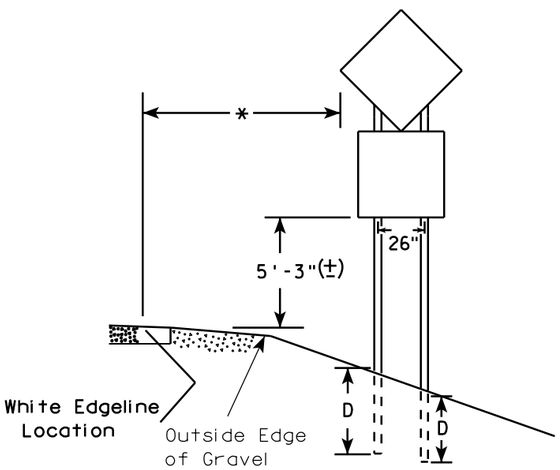
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

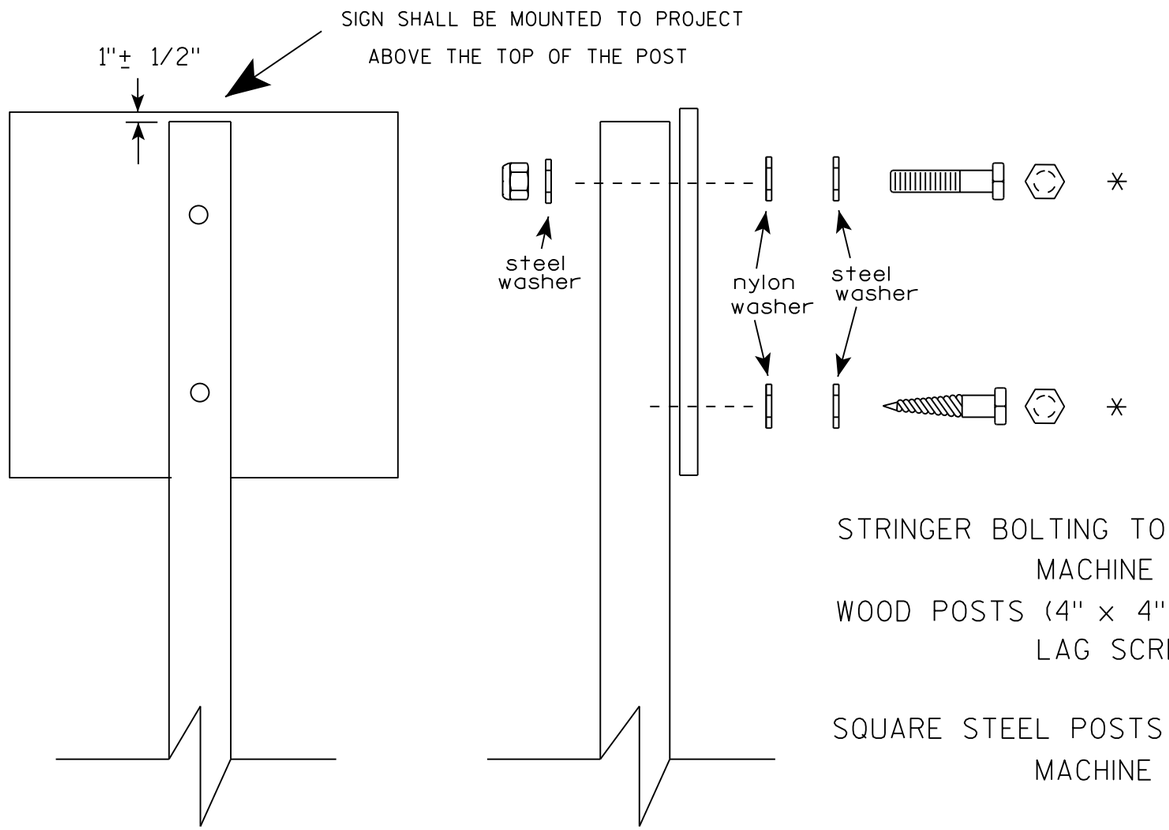
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14 170

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

7

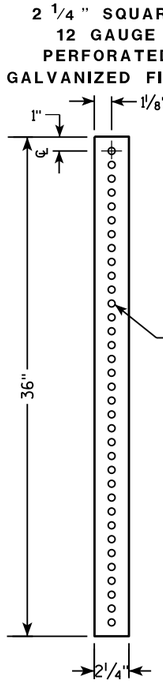
PROJECT NO:

SHEET NO: E

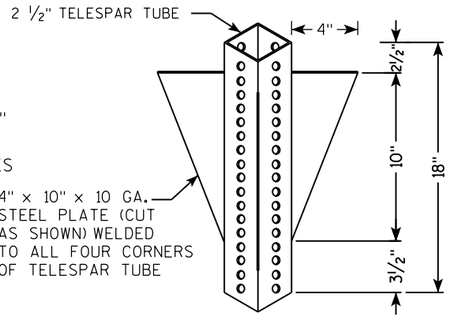
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

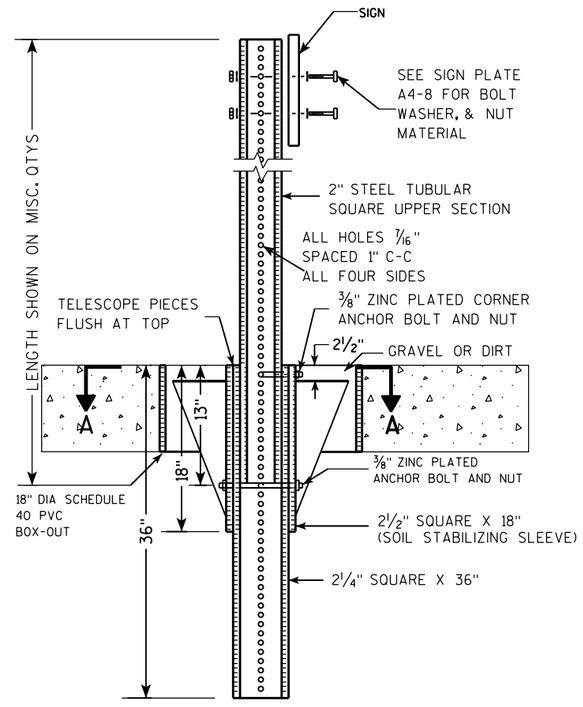
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



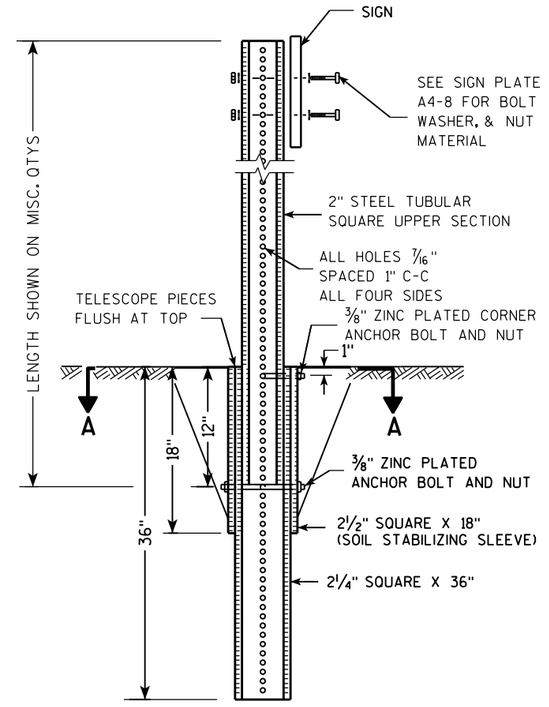
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

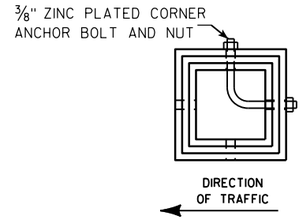


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

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

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

TUBULAR STEEL
SIGN POST
A4-9

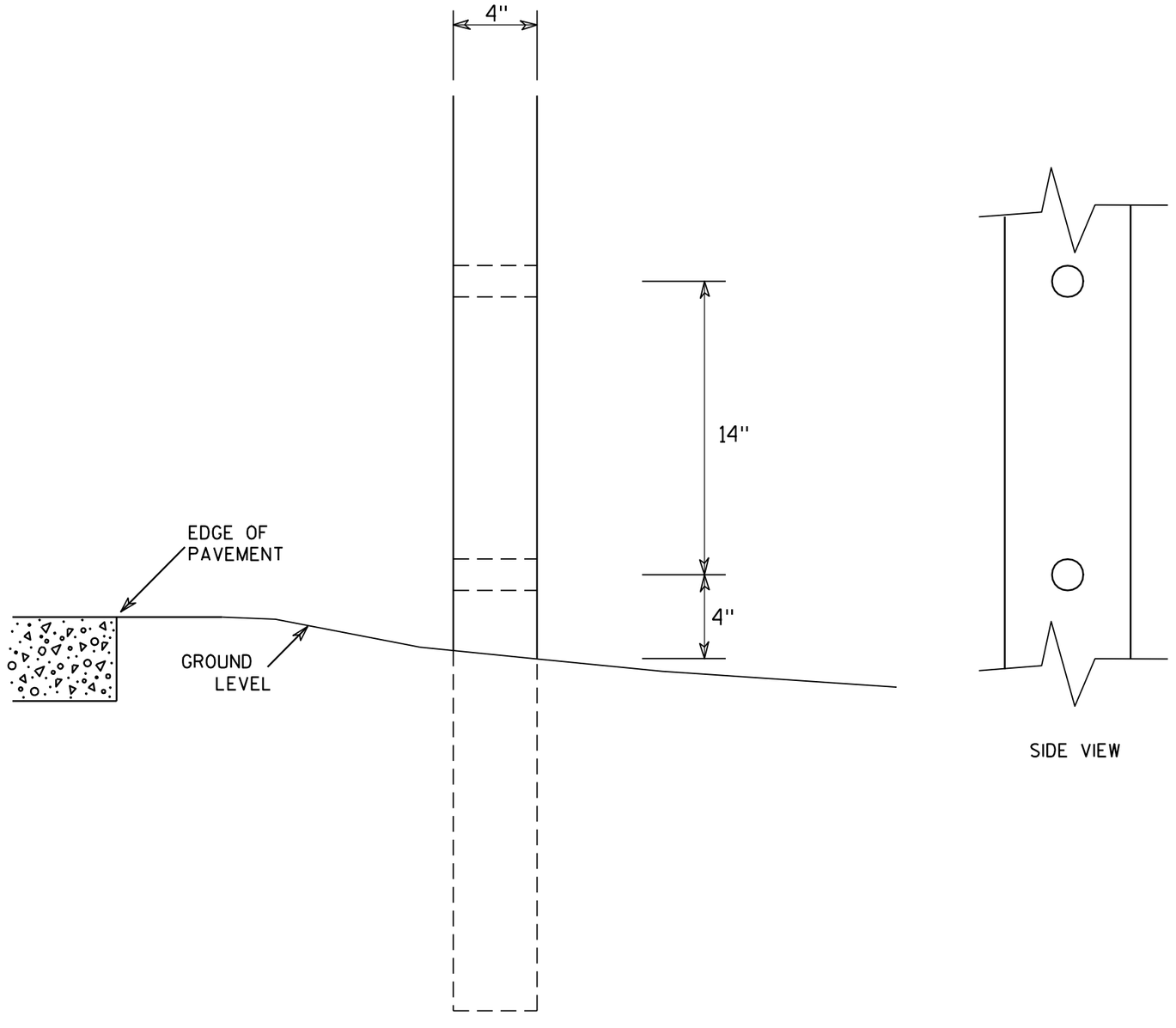
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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



SIDE VIEW

GENERAL NOTES

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

7

7

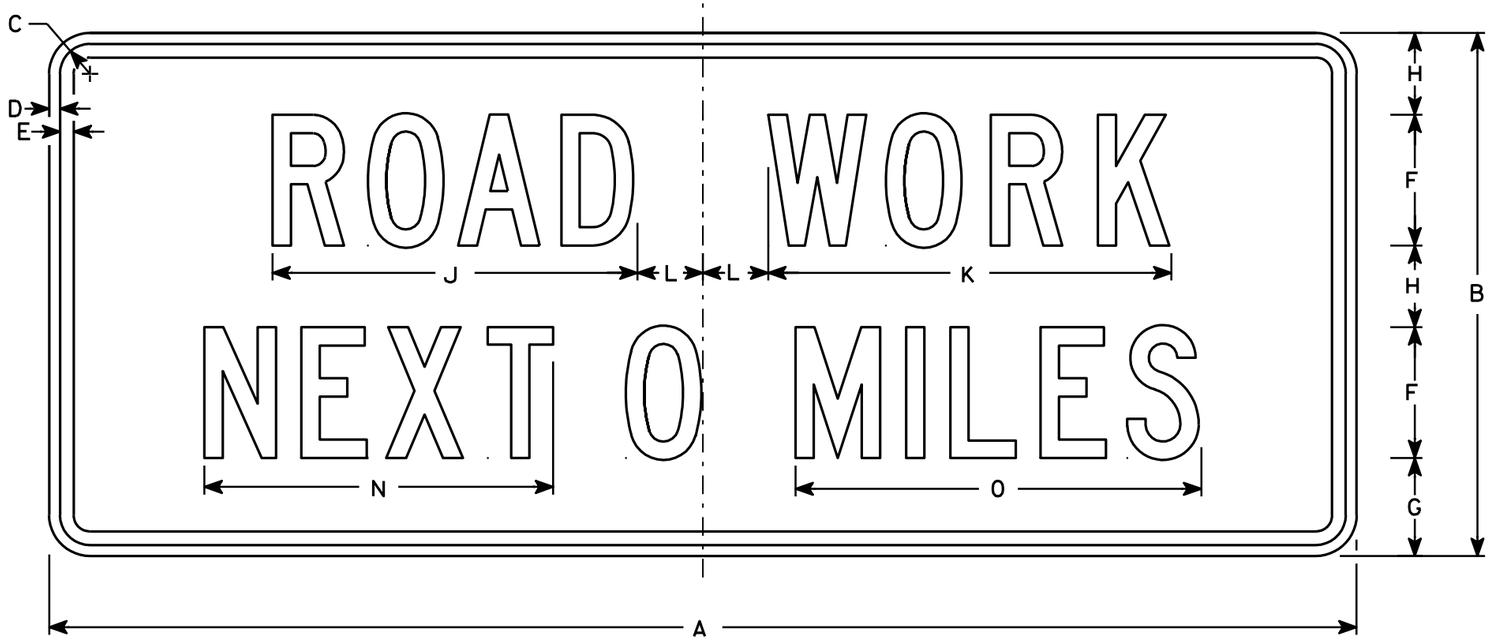
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



G20-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
5																												

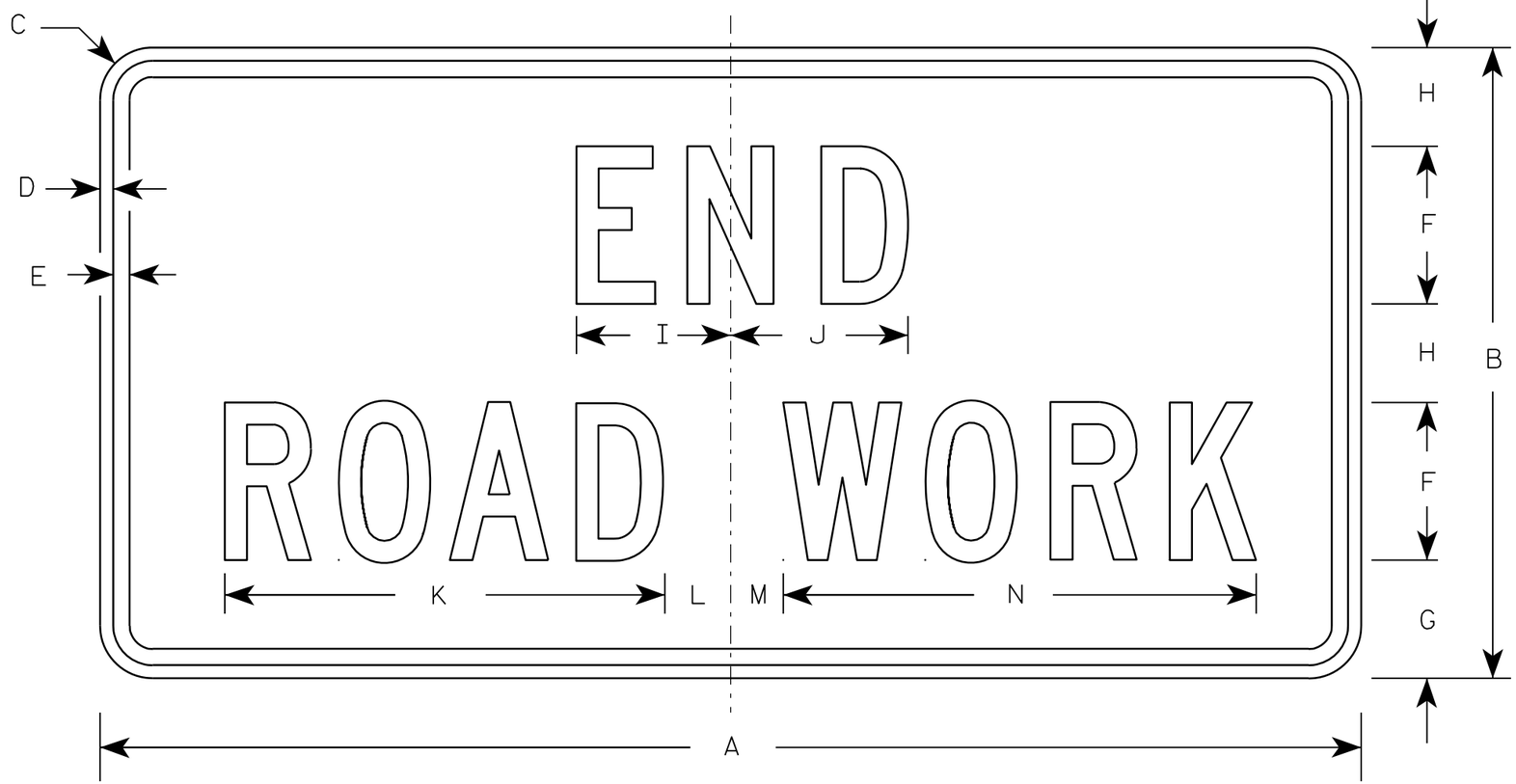
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spray for State Traffic Engineer

DATE 4/8/97 PLATE NO. G20-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	E

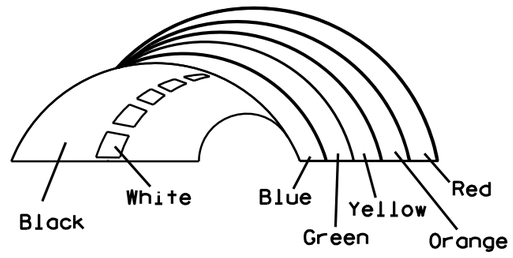


* VARIES

NOTES

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

Background Colors of Symbol*



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

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

STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

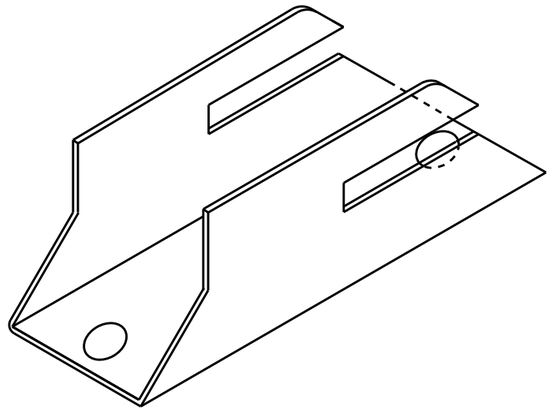
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 176

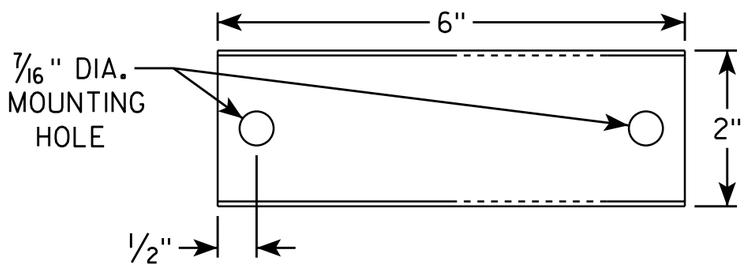
NOTES

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

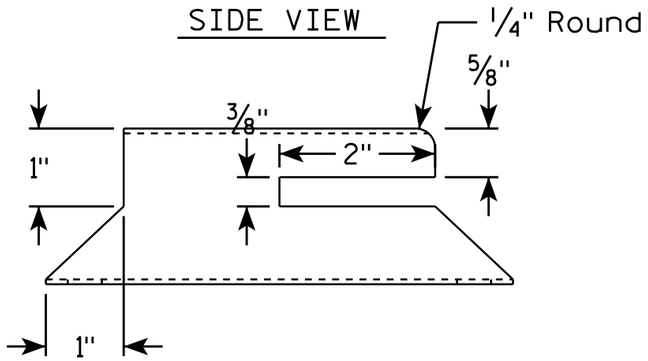
ISOMETRIC VIEW



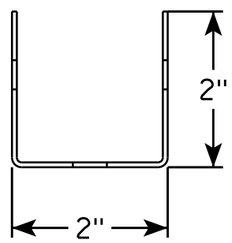
TOP VIEW



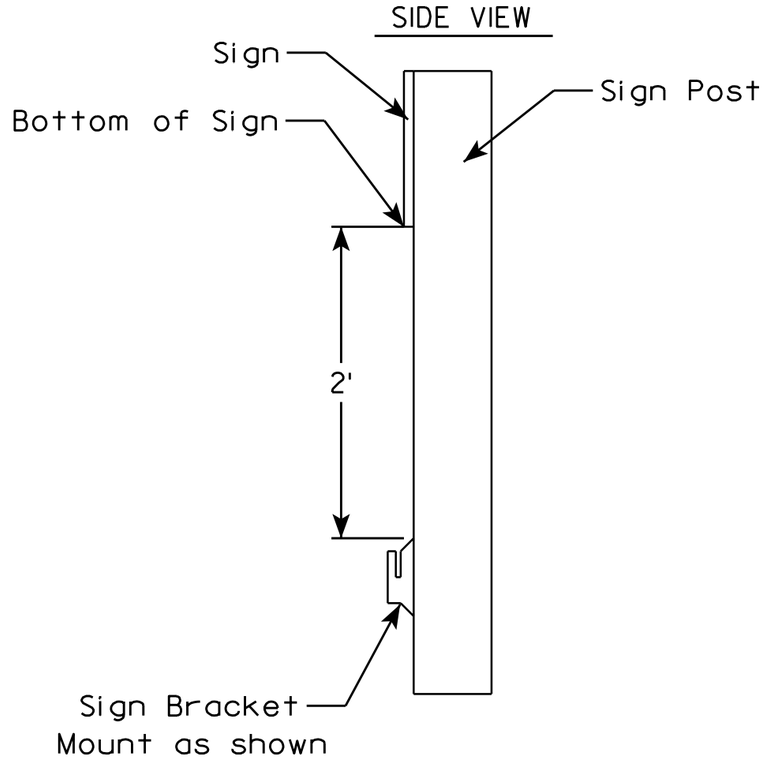
SIDE VIEW



END VIEW



SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

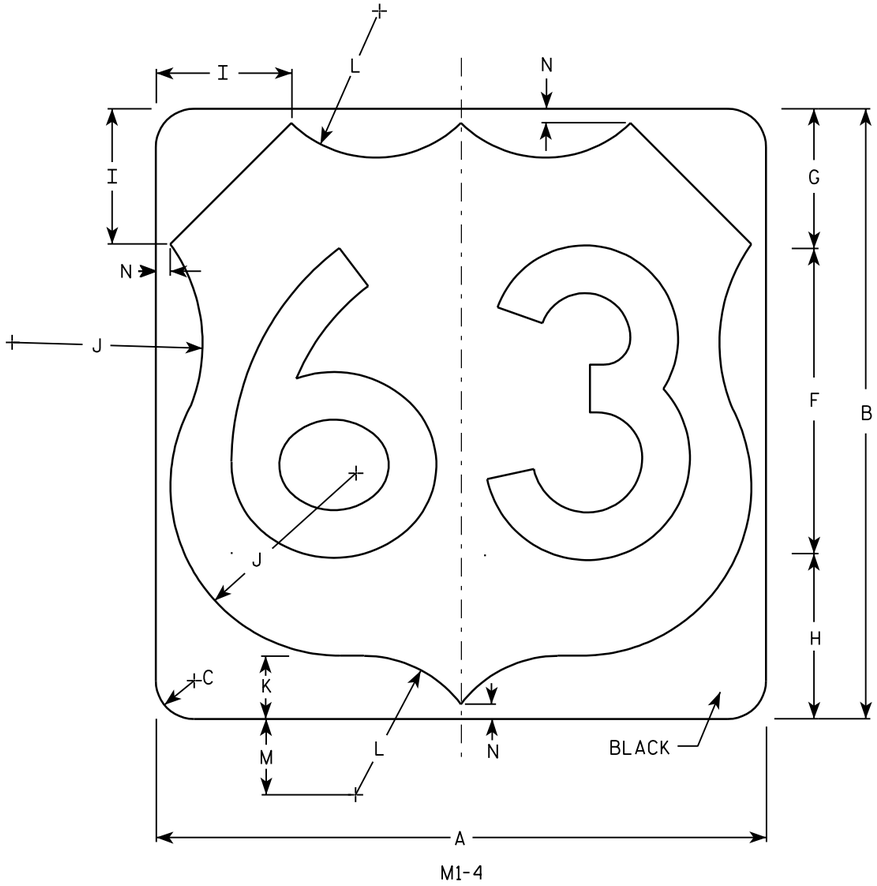
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

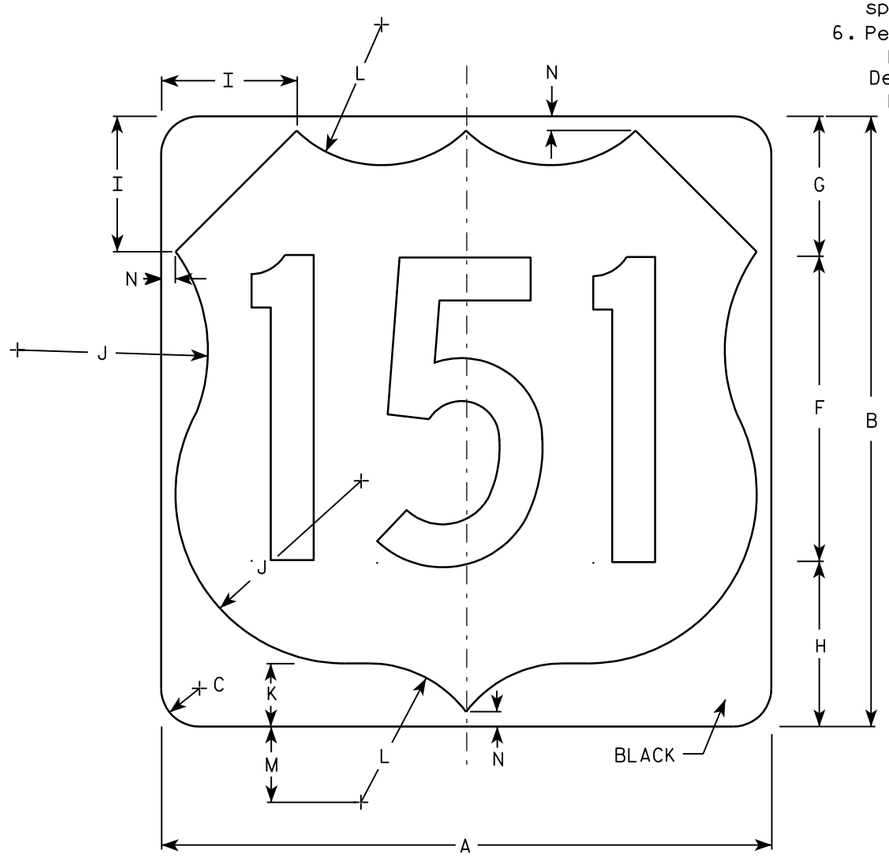
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

NOTES

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



M1-4



M1-4

Metric equivalent for this sign is:

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

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

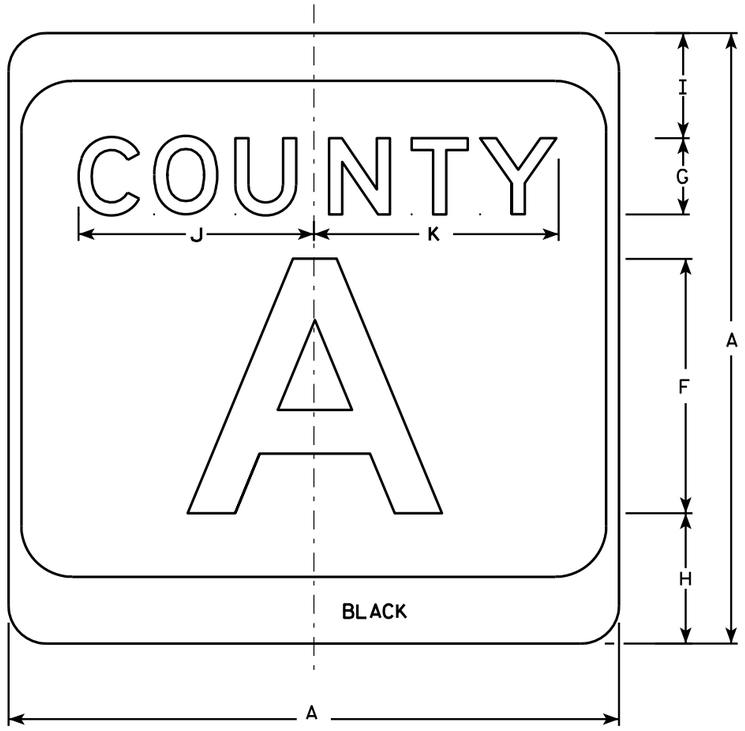
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

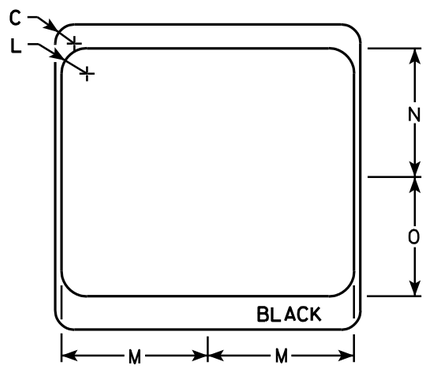
APPROVED Matthew R Rauch
for State Traffic Engineer

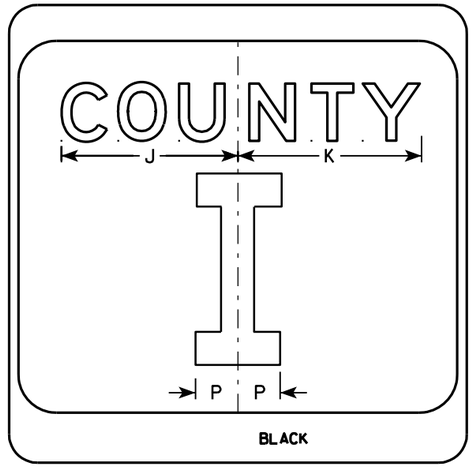
DATE 08/25/05 PLATE NO. M1-4.9

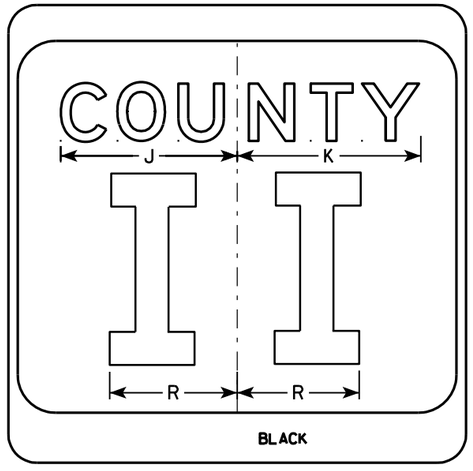
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

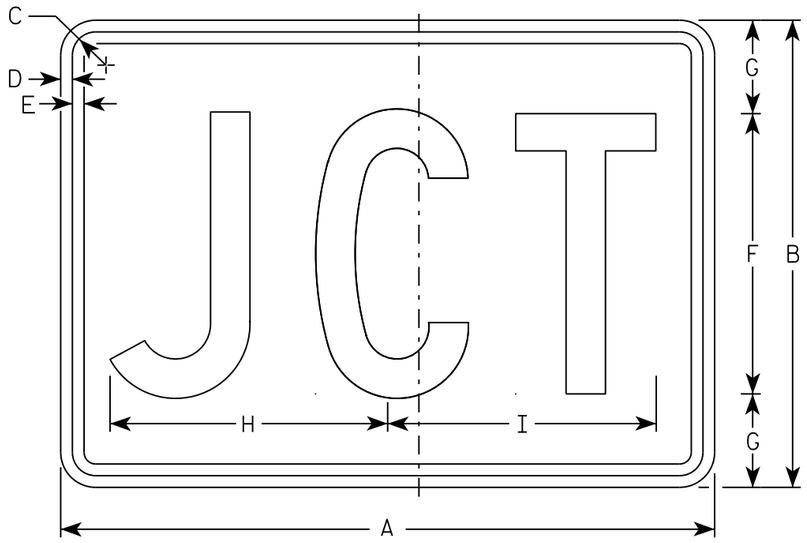
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

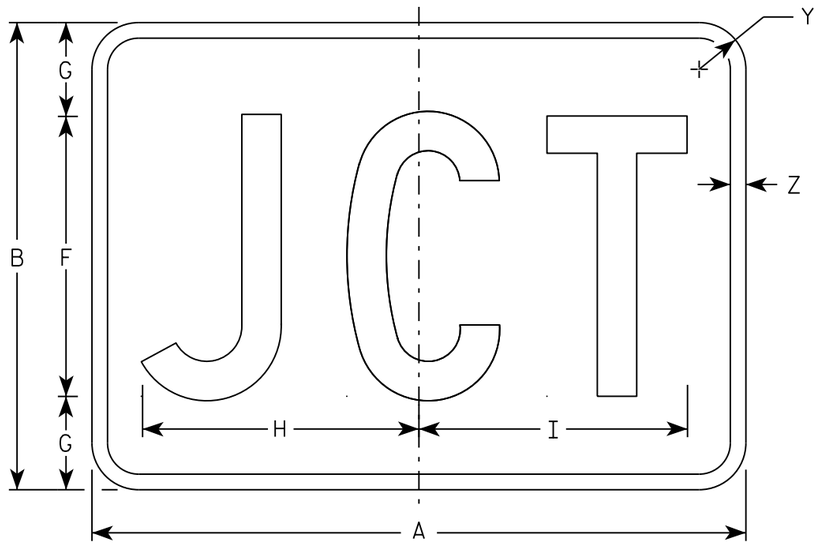
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E



M2-1
MM2-1
MP2-1



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

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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

STANDARD SIGN
M2-1

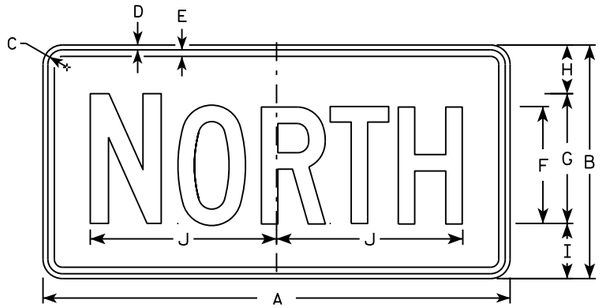
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

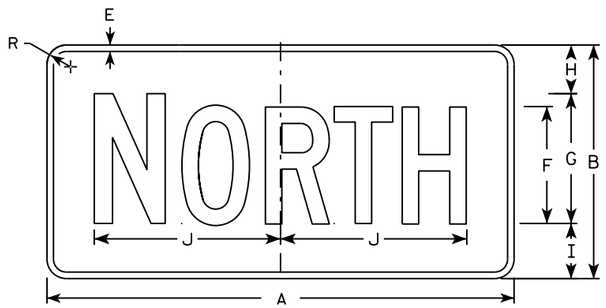
DATE 10/15/15 PLATE 180 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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



M3-1
MM3-1
MP3-1



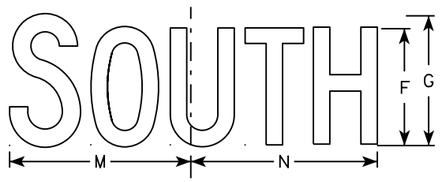
MB3-1
MK3-1
MN3-1



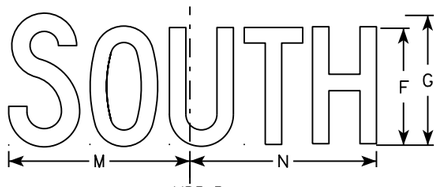
M3-2
MM3-2
MP3-2



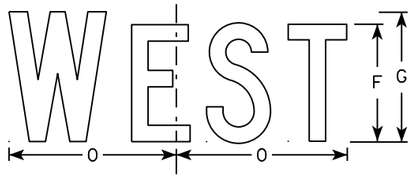
MB3-2
MK3-2
MN3-2



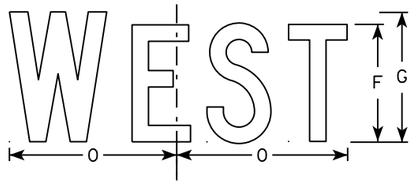
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

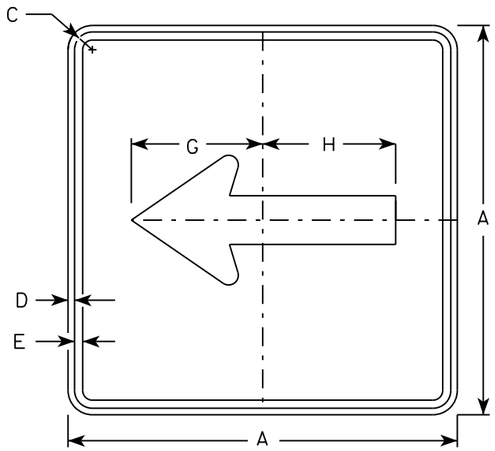
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

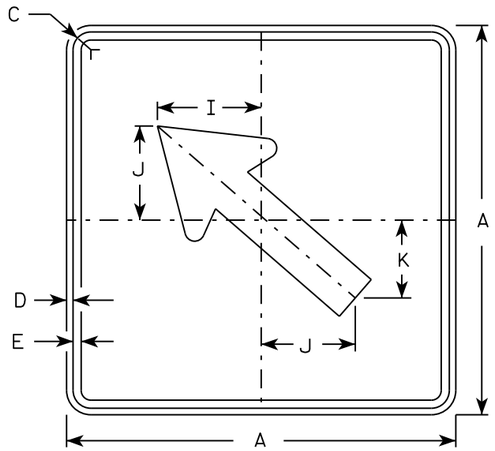
DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



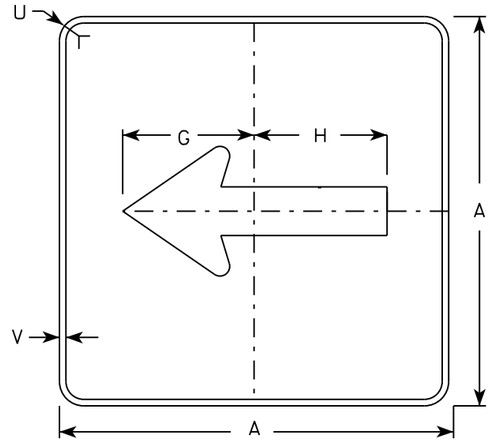
M6-1
MM6-1
MO6-1
MP6-1



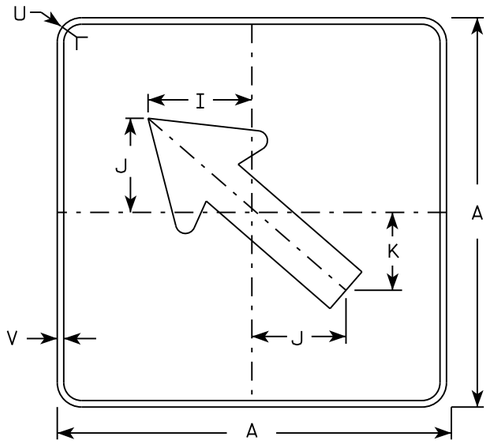
M6-2
MM6-2
MO6-2
MP6-2

NOTES

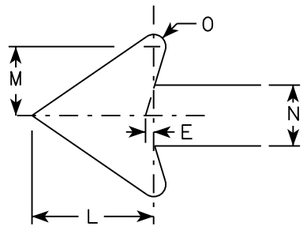
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

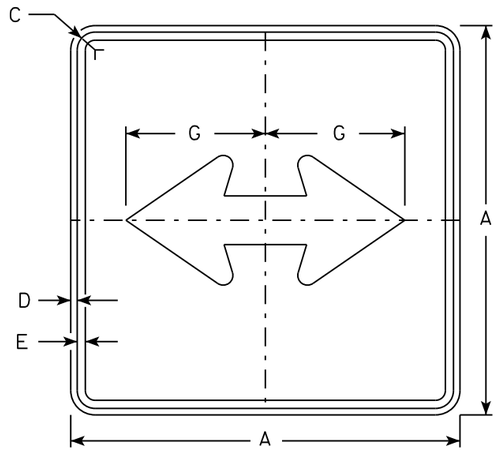
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

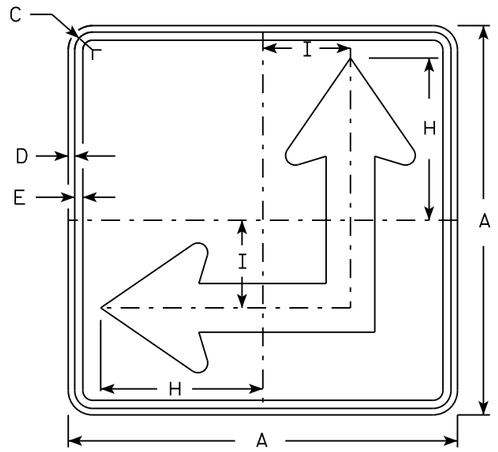
DATE 10/15/15 PLATE 182 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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



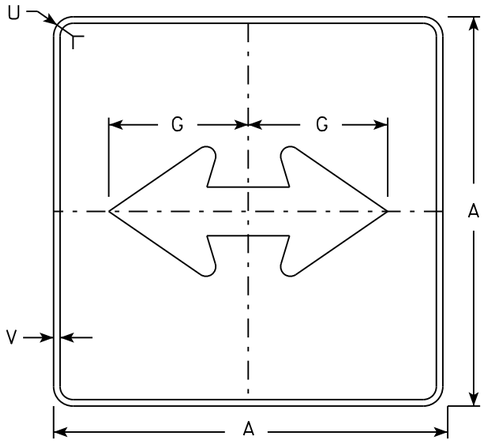
M6-4
MM6-4
MO6-4
MP6-4



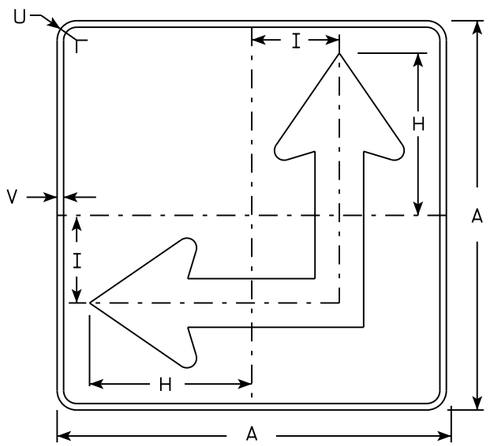
M6-6
MM6-6
MO6-6
MP6-6

NOTES

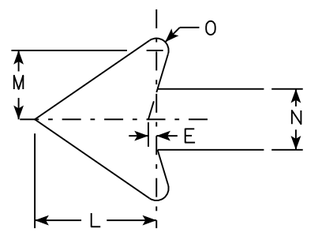
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

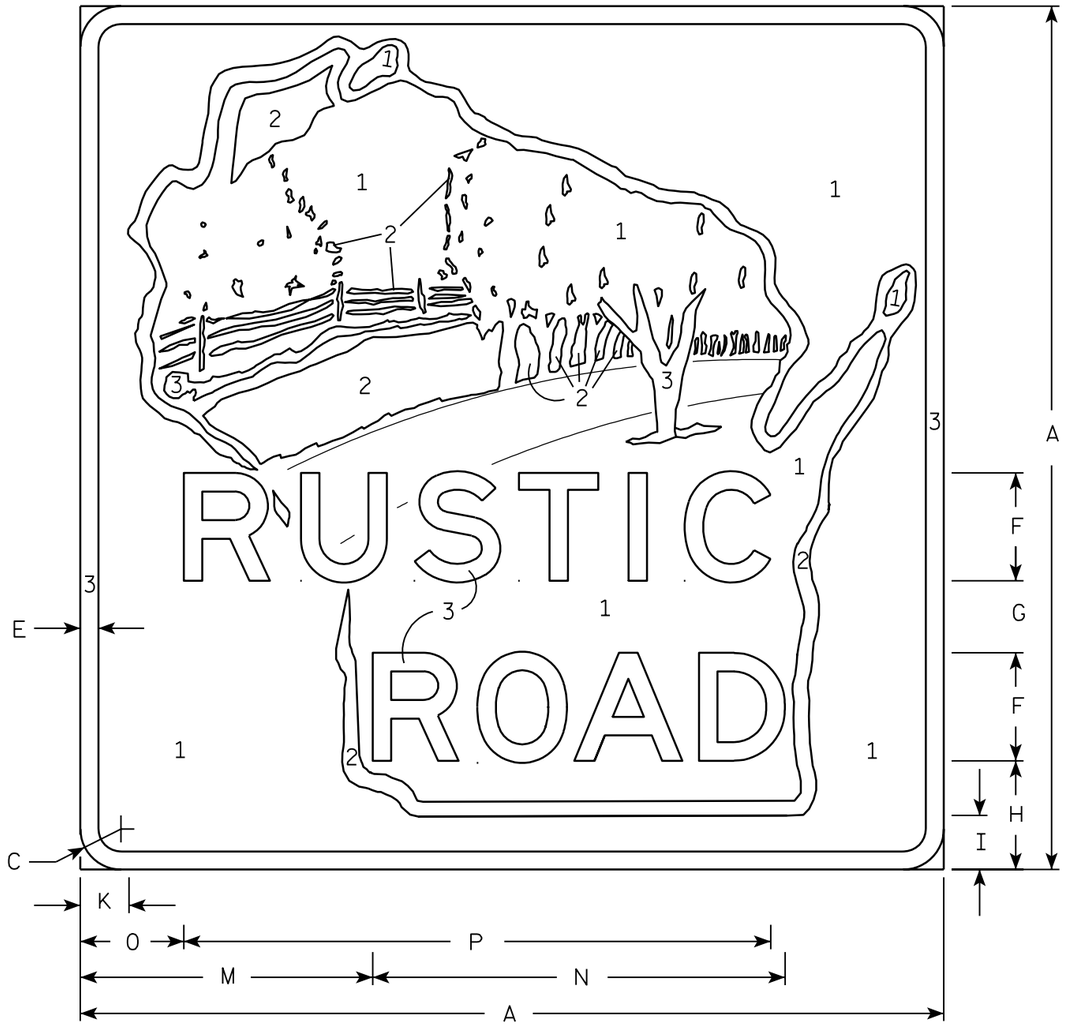
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 183 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5.
3. Message Series - Modified E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The sign will be color coded by numerical designation Numeral *1 Brown
   2 Type H Reflective White
   3 Reflective Yellow

   Exact color descriptions will be furnished upon request.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/8		1/2	3	2	3	1 1/2		1 3/8		8 1/8	11 1/4	2 7/8	16 1/4											4.0	0.36
3																												
4																												
5																												

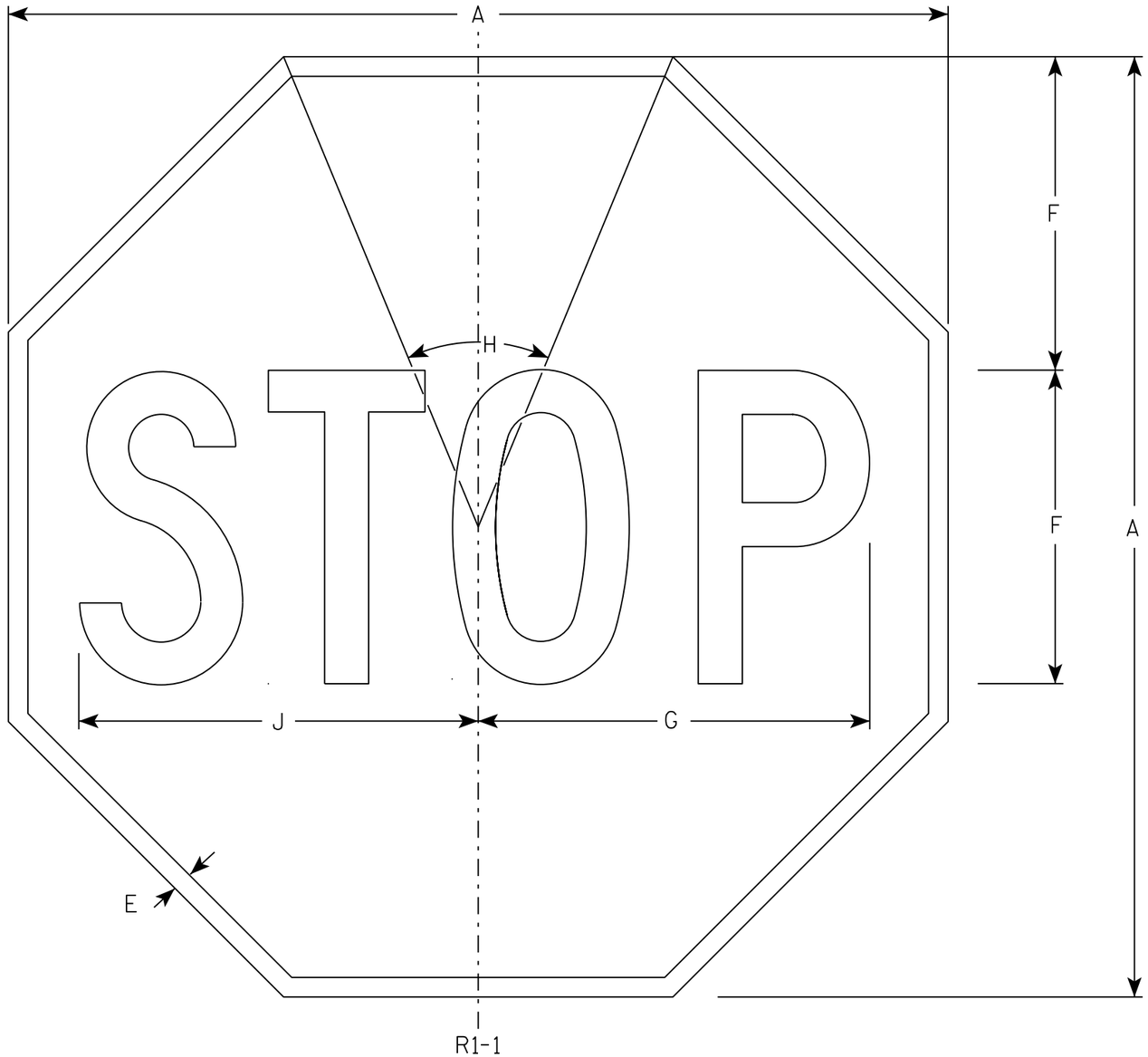
STANDARD SIGN
MR1-99

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/05 PLATE NO. MR1-99.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 184	E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

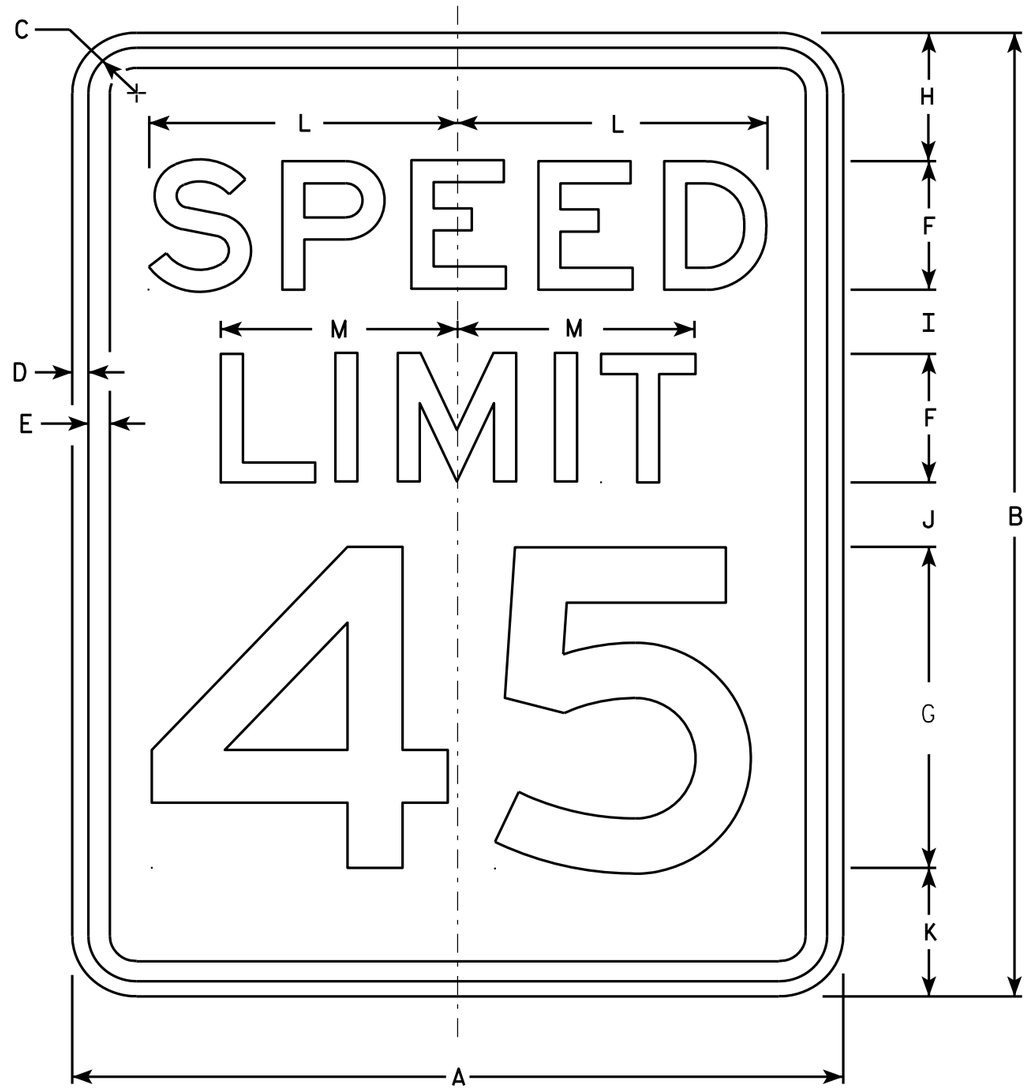
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

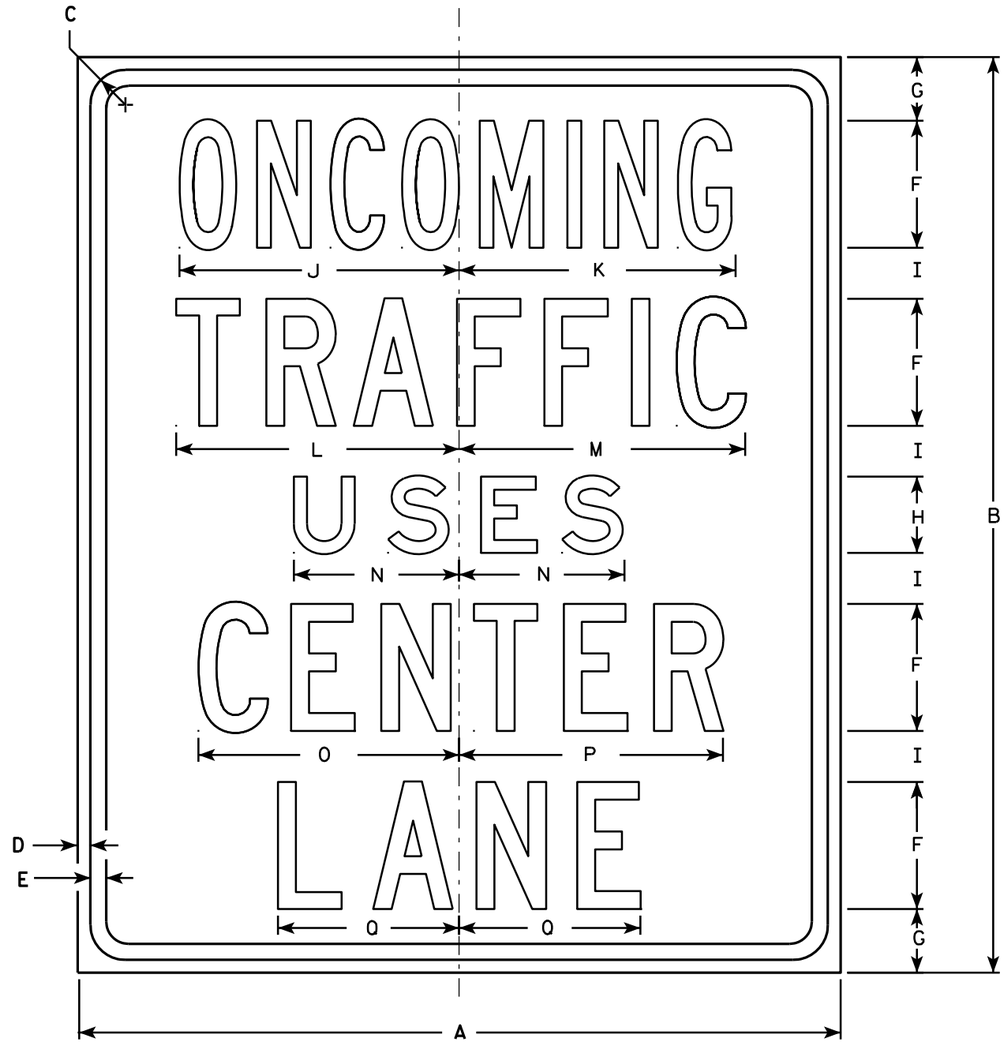
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 186	E



R3-72

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is Series E.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2S	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											

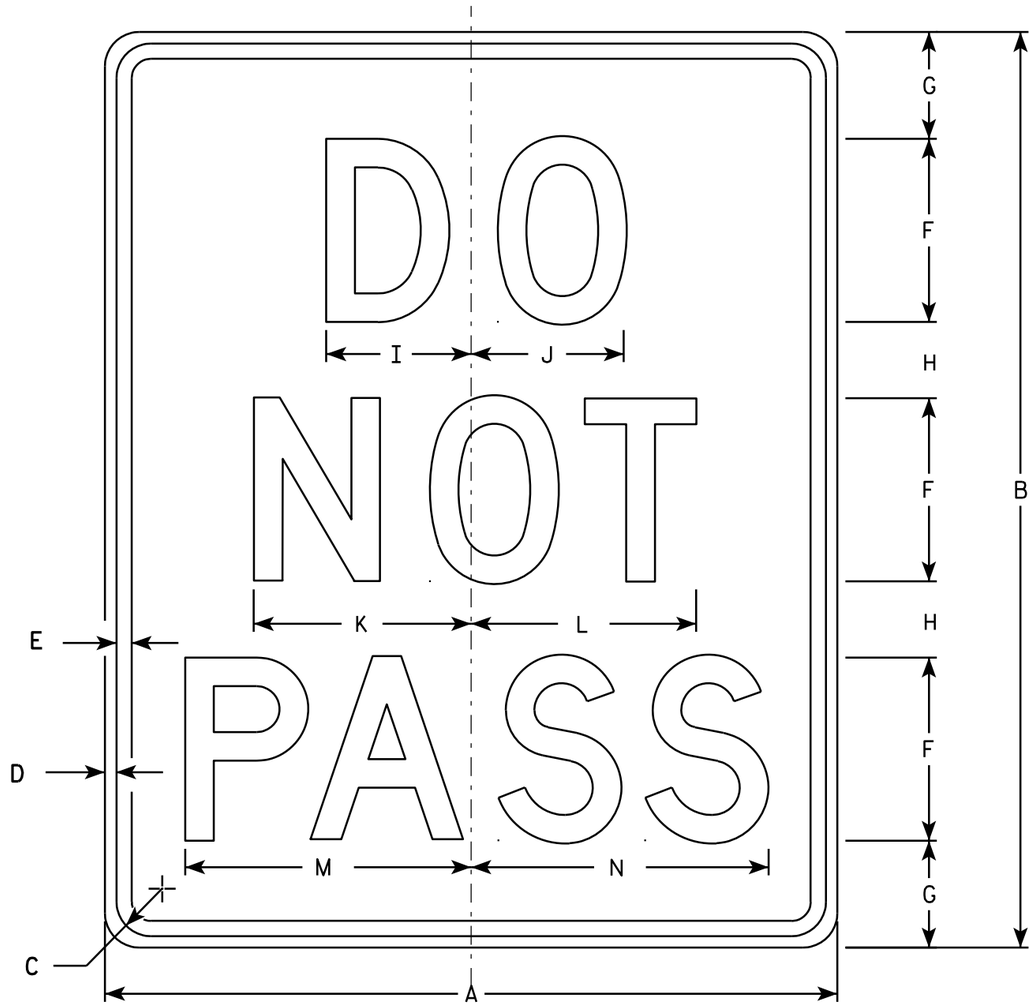
STANDARD SIGN
R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E



R4-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

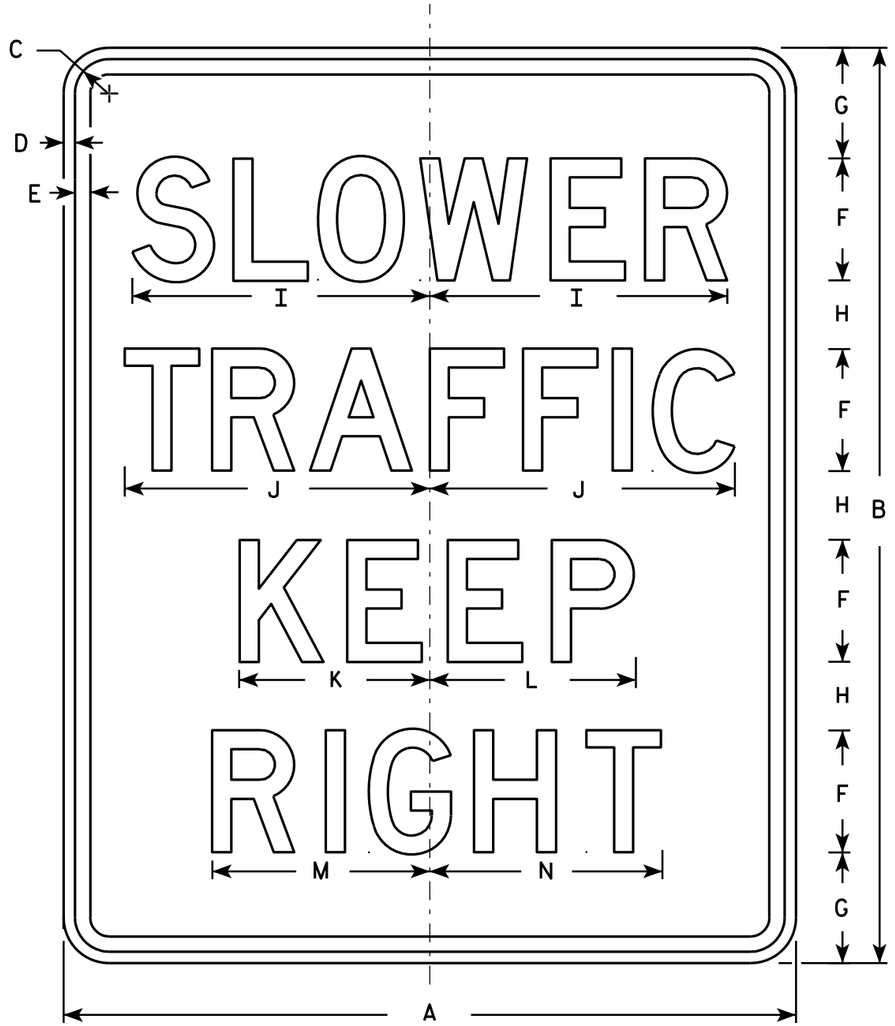
STANDARD SIGN
R4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 188 | E



R4-3

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

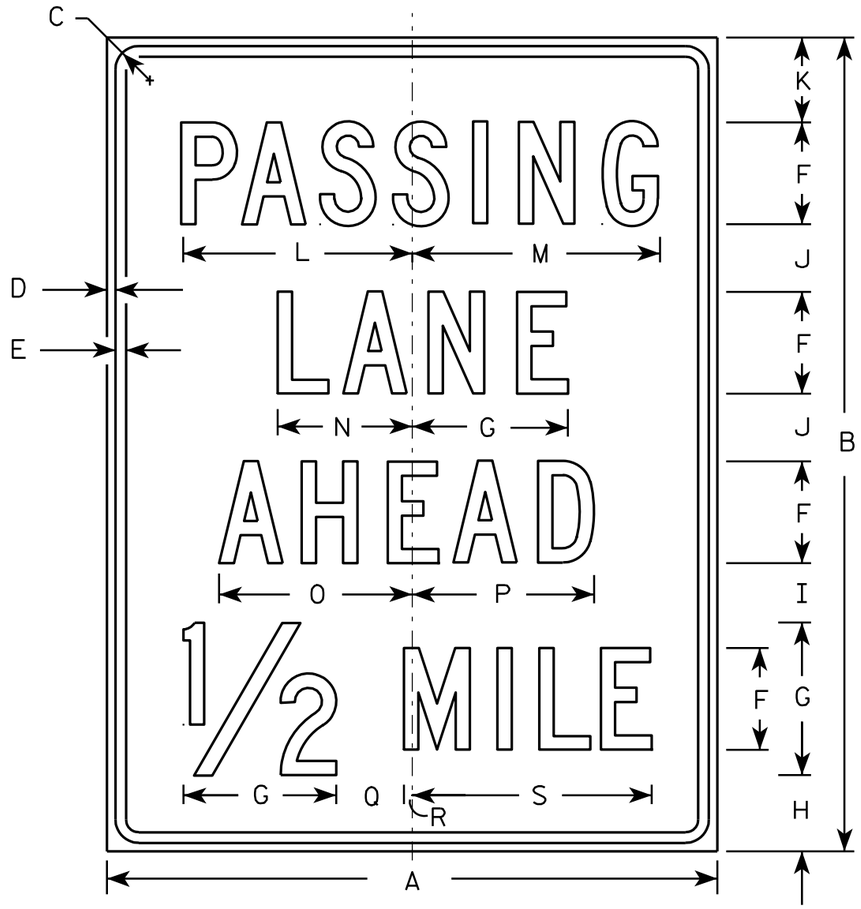
SHEET NO: 189 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



R4-51

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	48	1 3/8	1/2	5/8	6	9	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	1/2	14 1/8								12.0
2M	36	48	1 3/8	1/2	5/8	6	9	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	1/2	14 1/8								12.0
3																											
4																											
5																											

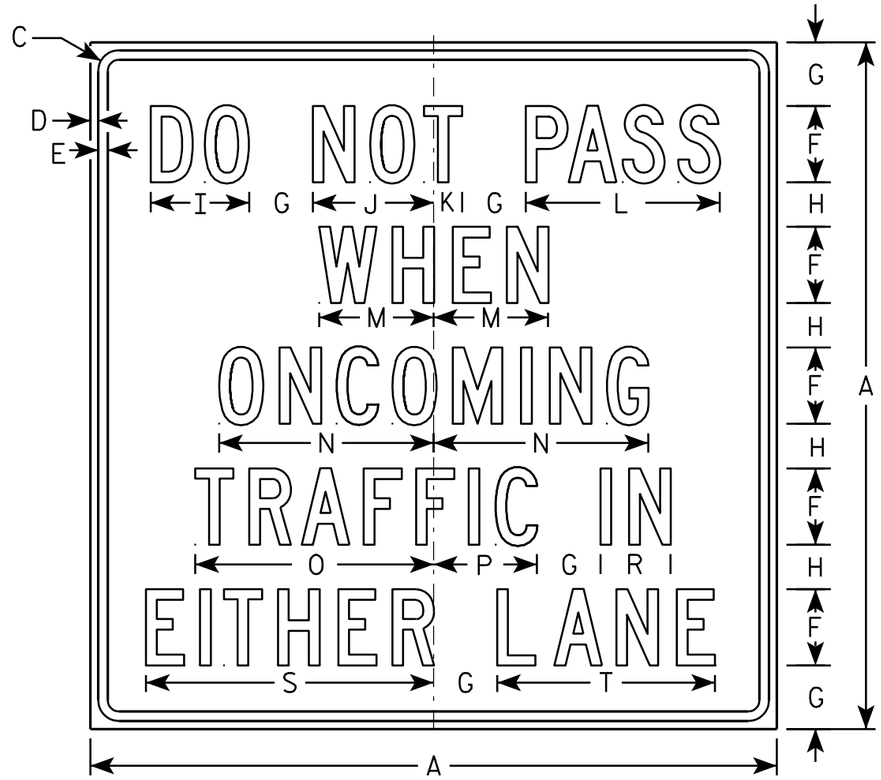
STANDARD SIGN
R4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 | E



R4-53

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
2M	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
3																											
4																											
5																											

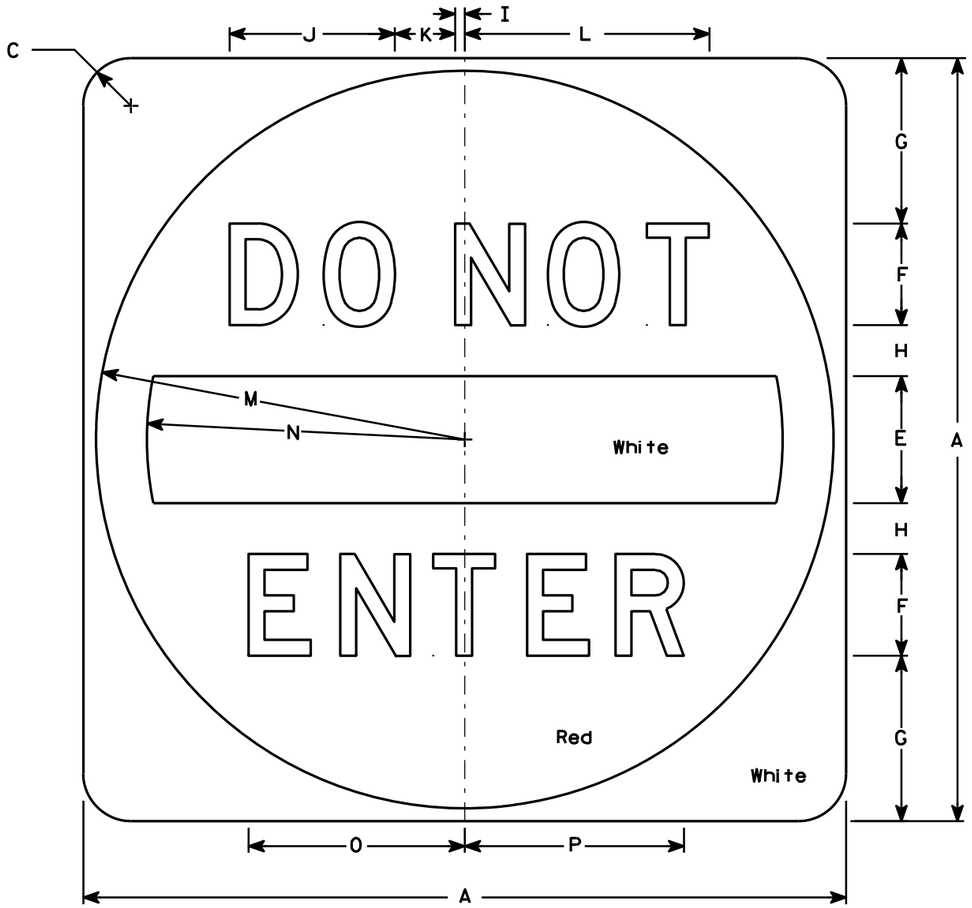
STANDARD SIGN
R4-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R4-53.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 191 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

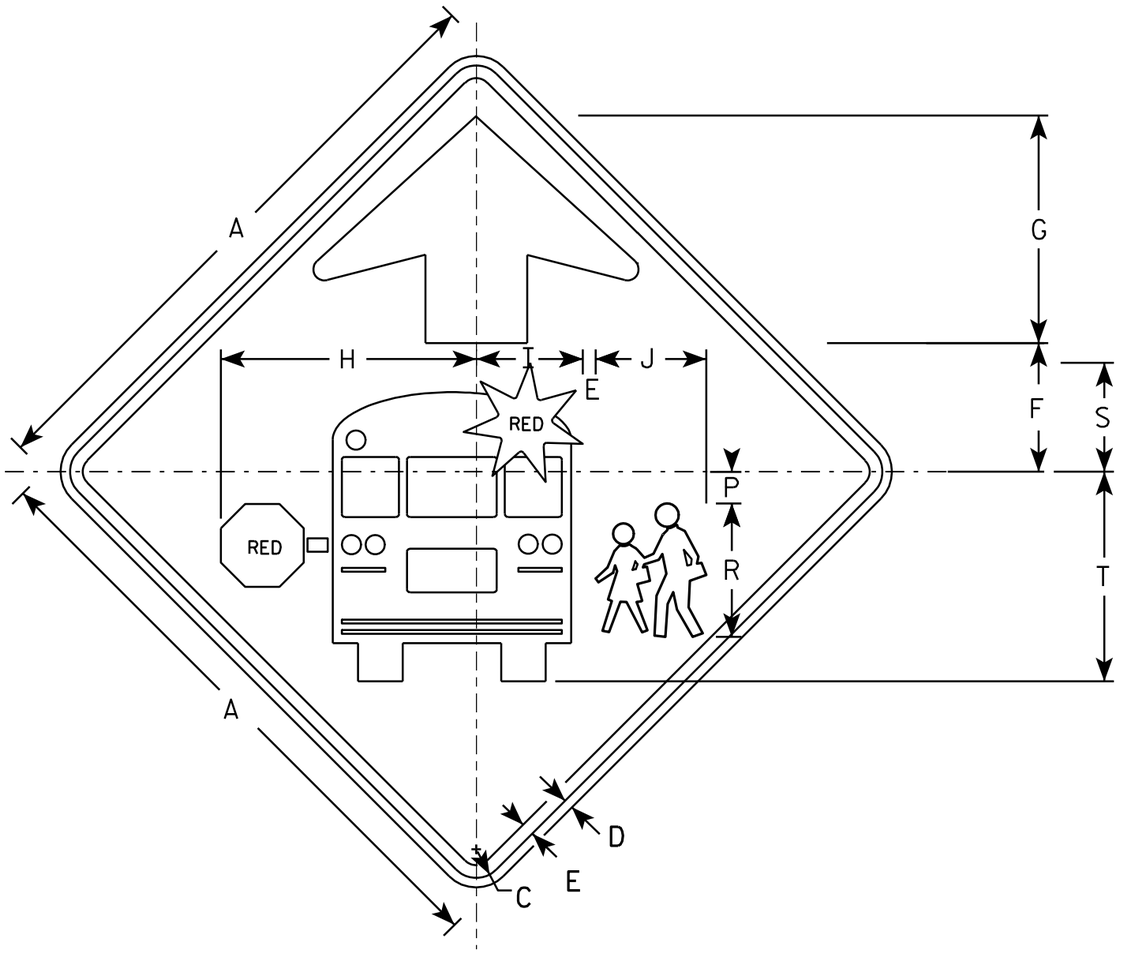
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

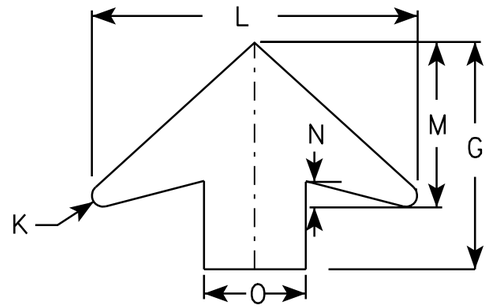
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 192 | E



S3-1

NOTES

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



ARROW DETAIL

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

STANDARD SIGN
S3-1

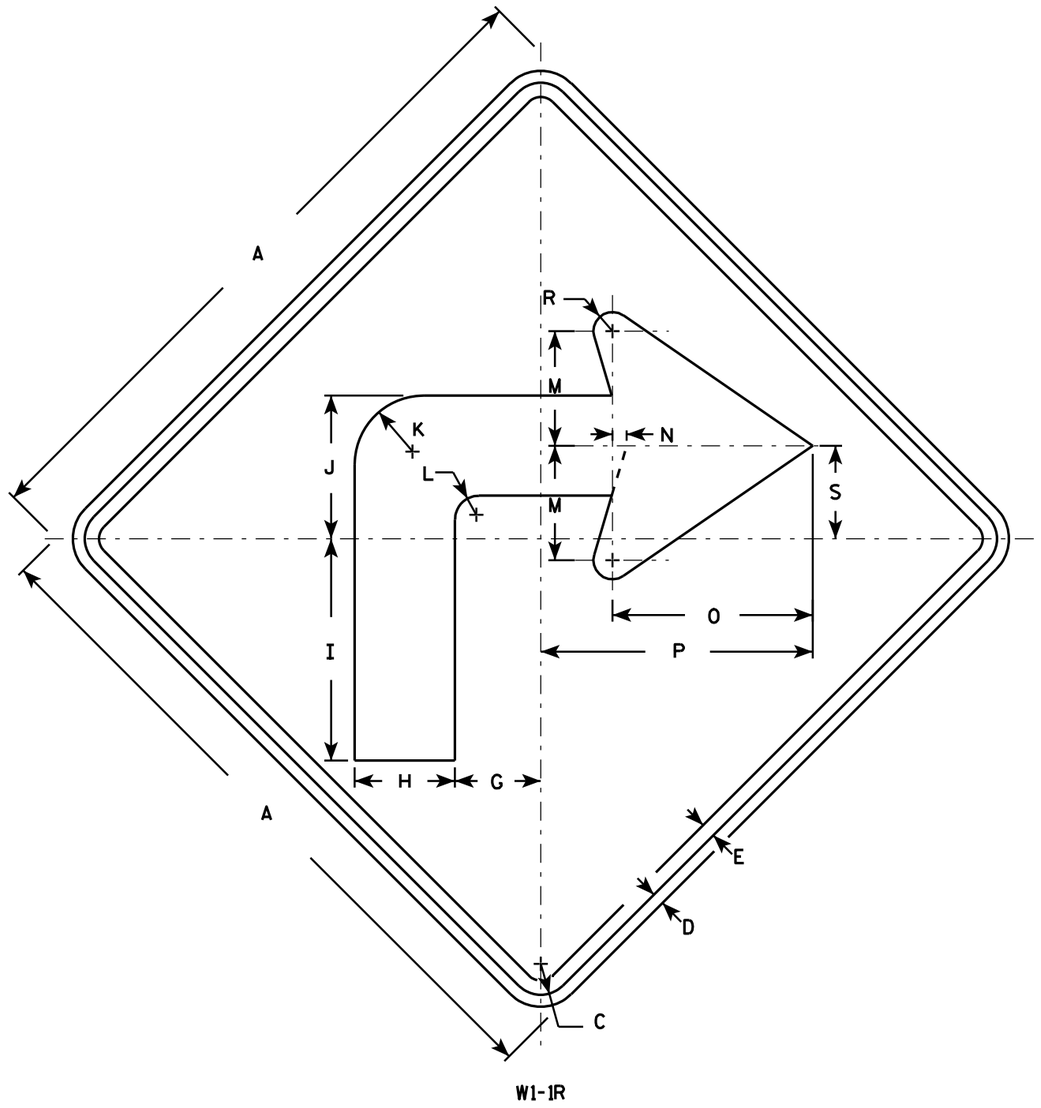
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 193 E



W1-1R

NOTES

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

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

STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

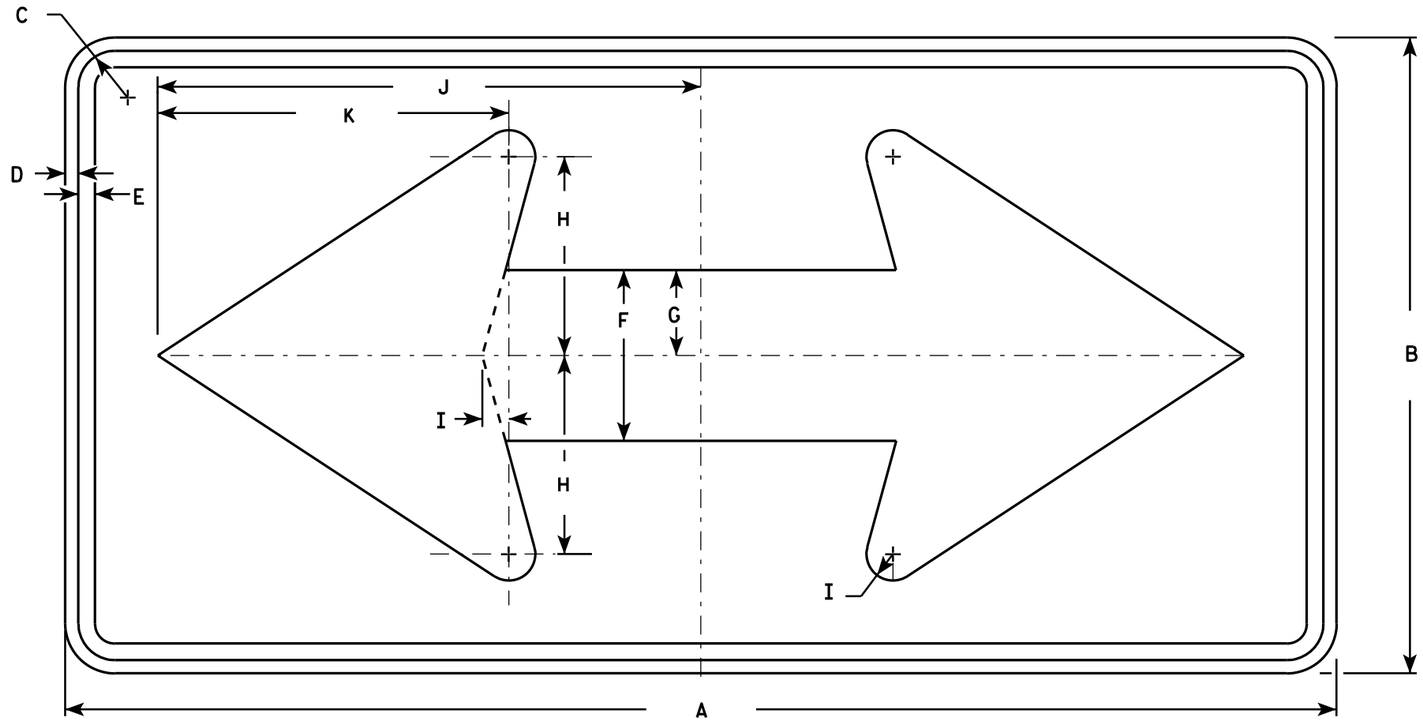
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 194 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN PLOT DATE : 15-MAY-2012 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.939035:1.000000
WISDOT/CADDS SHEET 42



W1-7

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

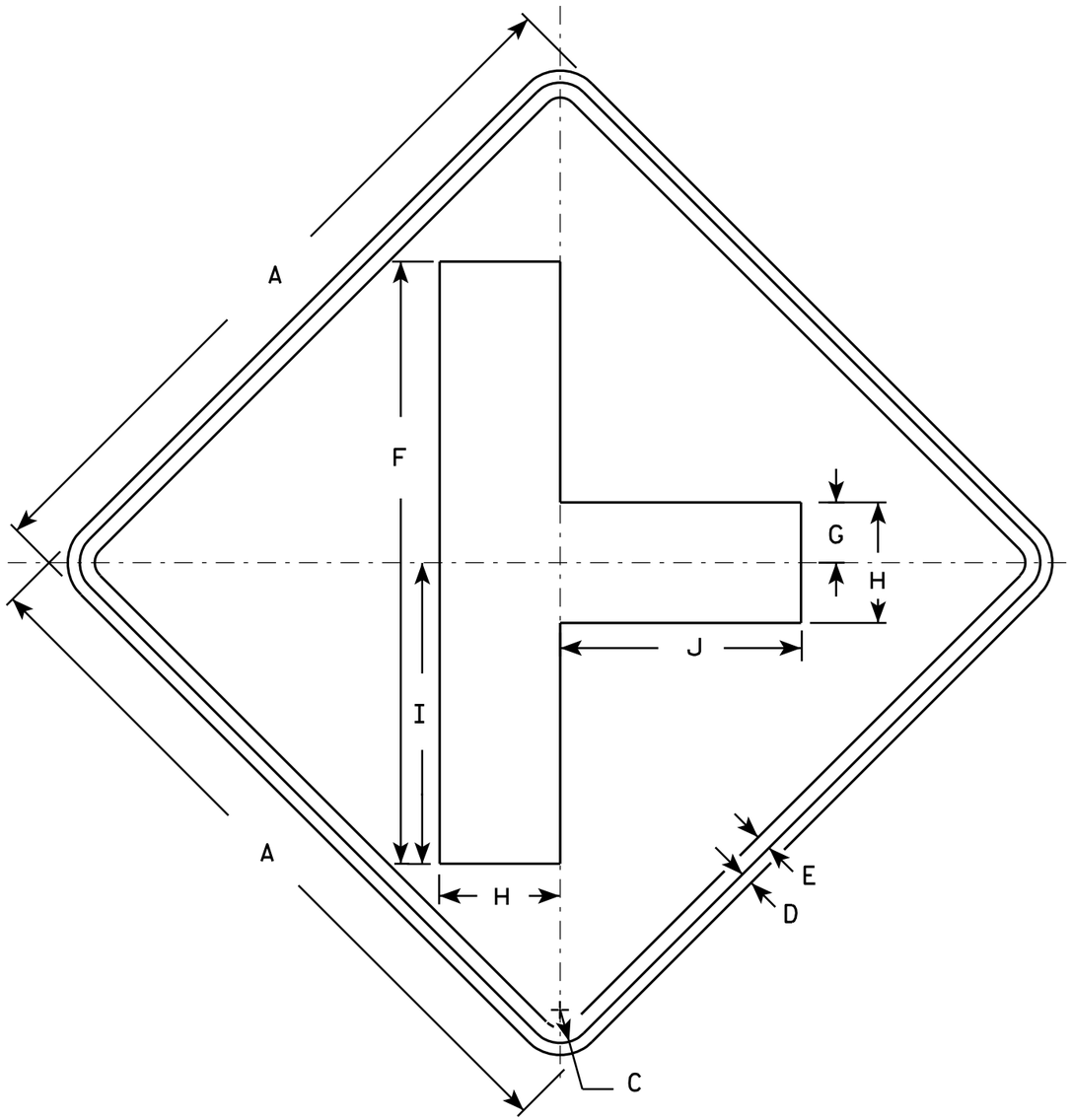
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 195 | E



W2-2

NOTES

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

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

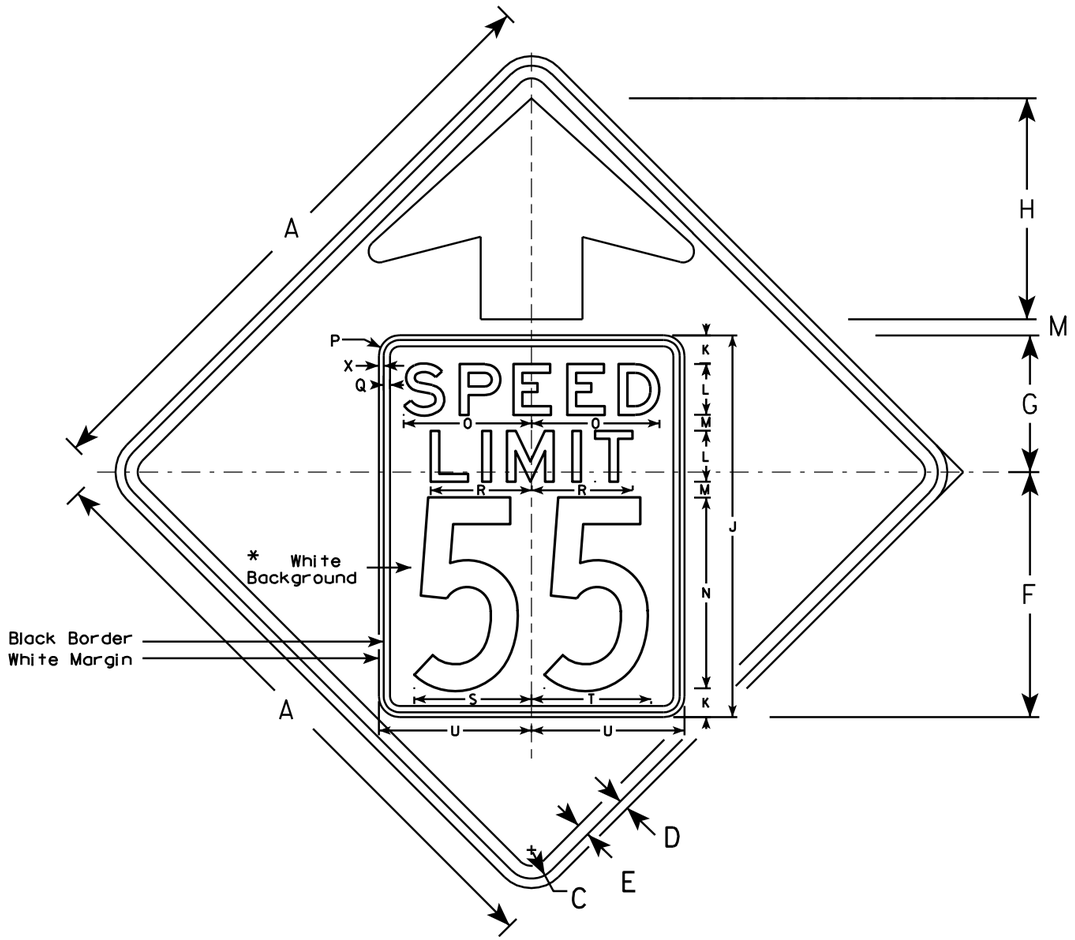
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	E

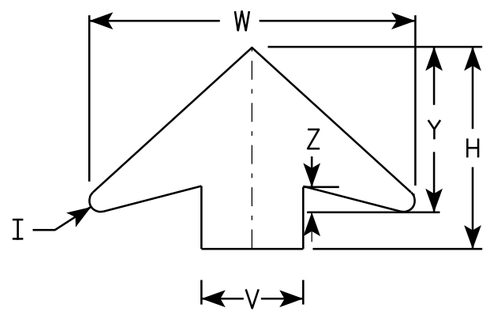


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

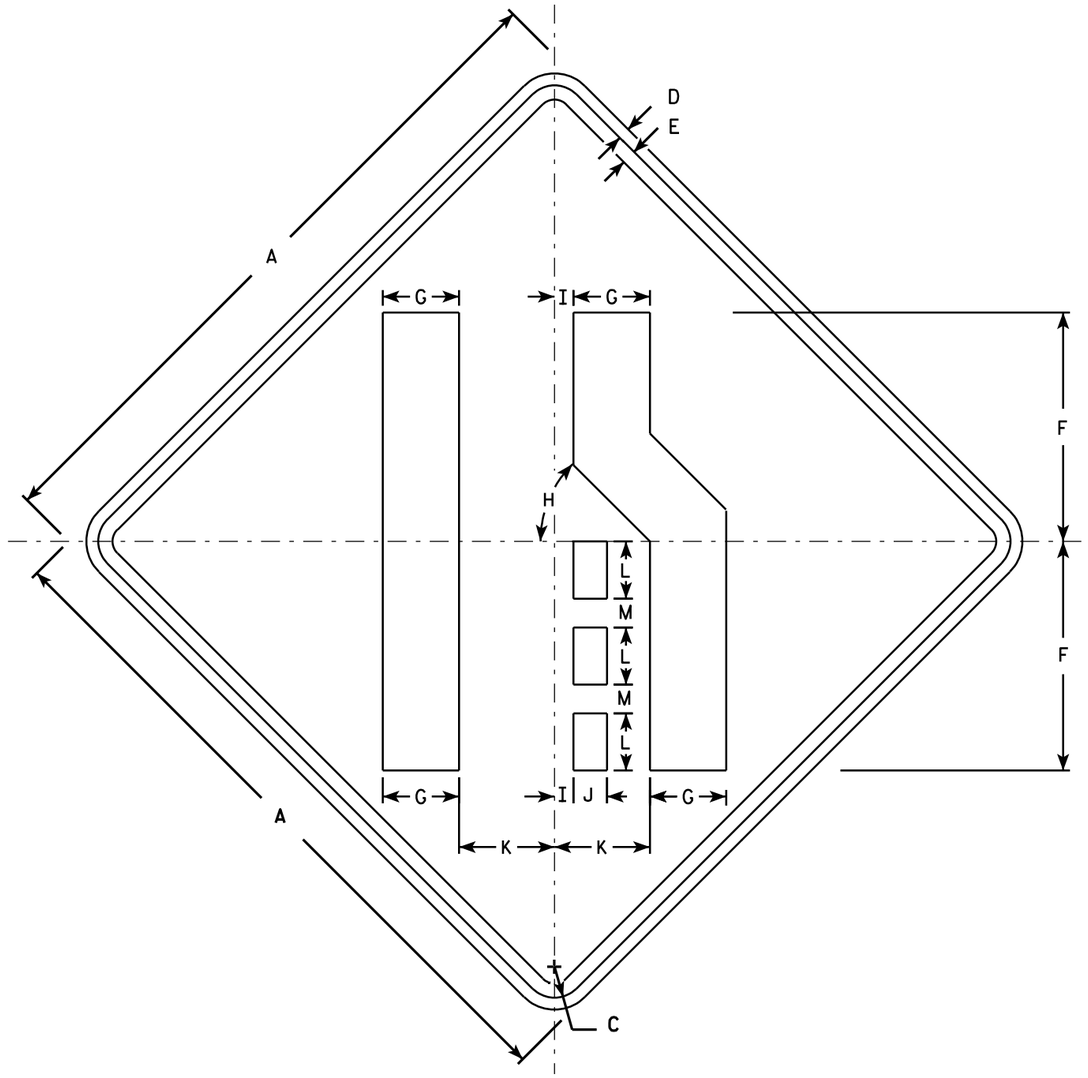
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 197 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

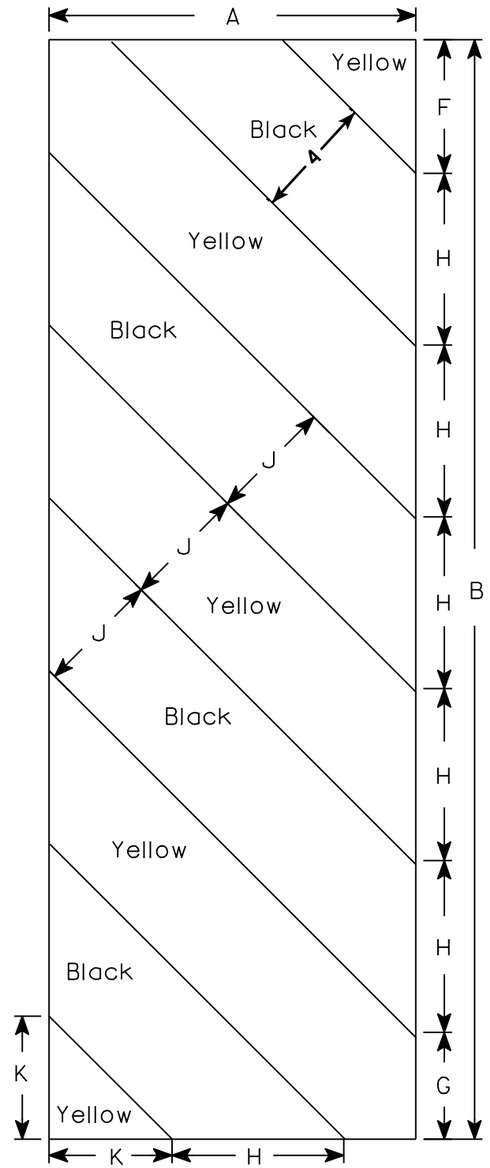
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

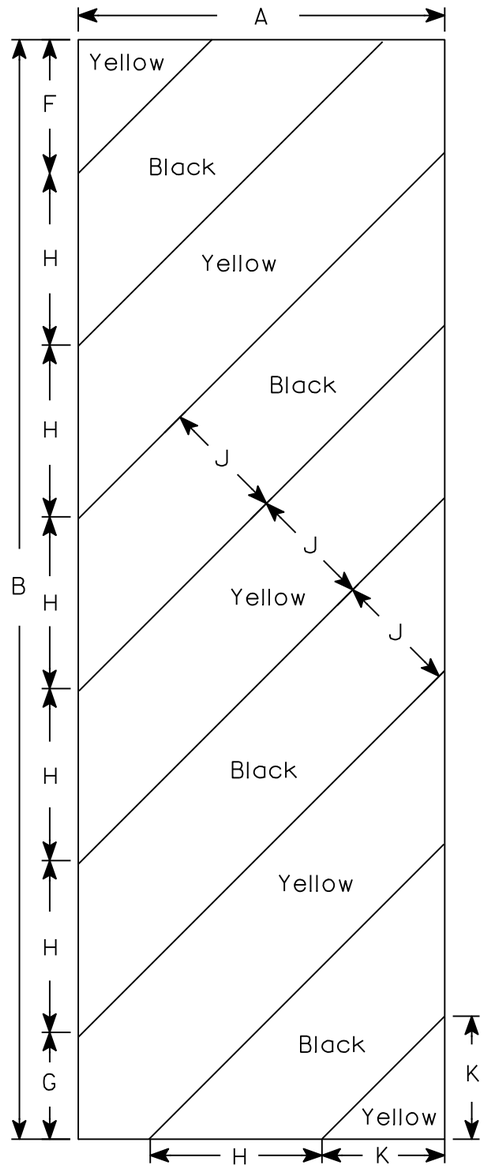
DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 198 E



W5-52L



W5-52R

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

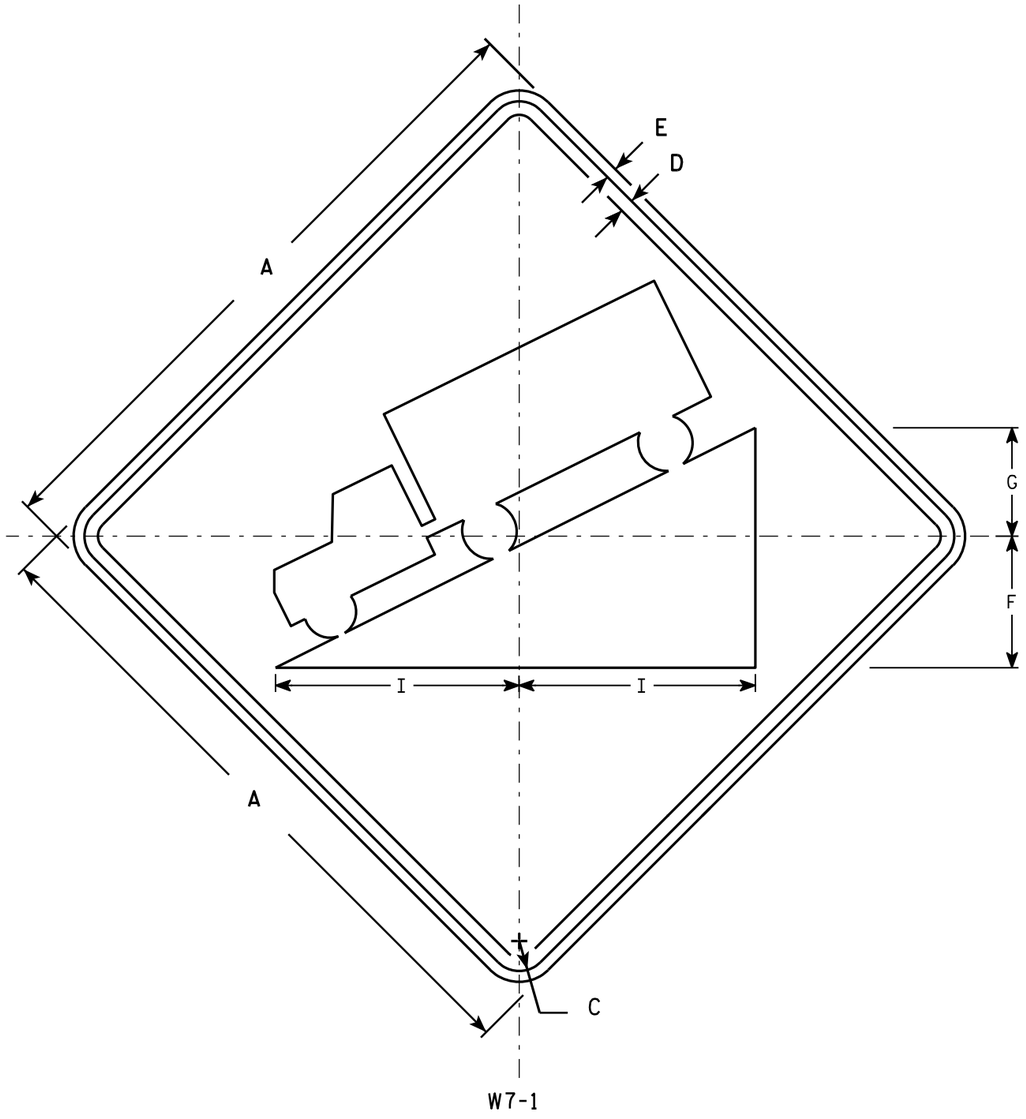
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 199 | E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	3/8	5	4		8 3/4																		4.0
2S	30		1 3/8	1/2	5/8	6	5		11																		6.25
2M	36		1 5/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
3	36		1 5/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
4	36		1 5/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
5	48		2 1/4	3/4	1	9 3/4	8		17 1/2																		16.0

STANDARD SIGN
W7-1

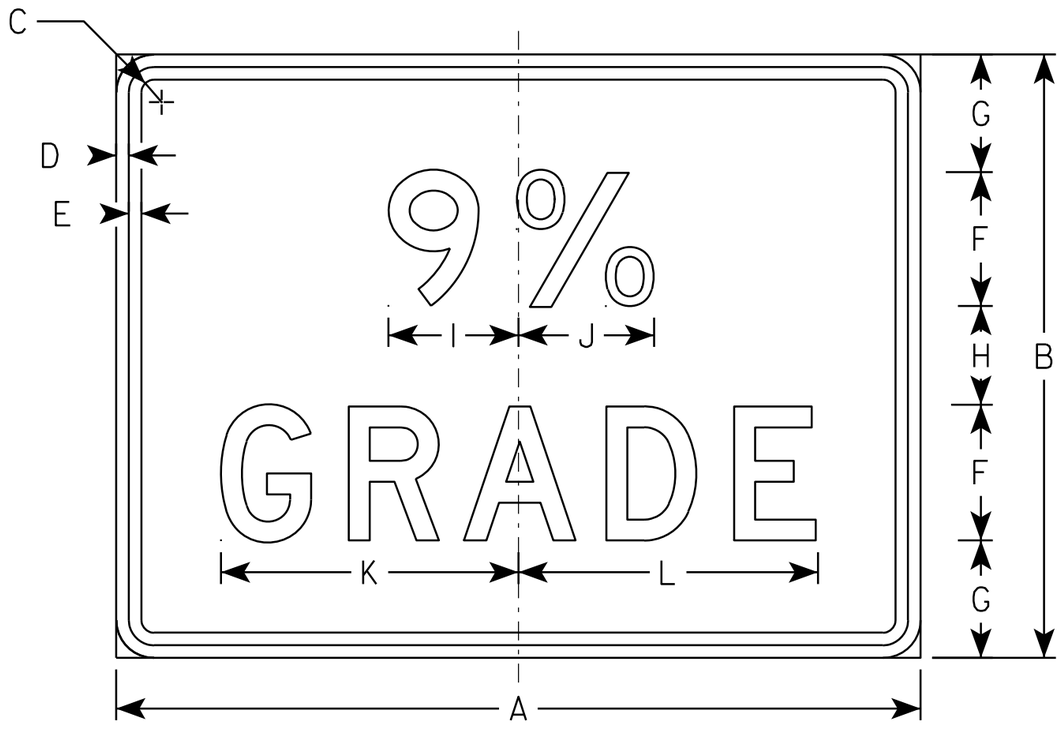
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W7-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 200	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W71.DGN PLOT DATE : 12-MAR-2013 14:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W7-3

NOTES

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

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

STANDARD SIGN
W7-3

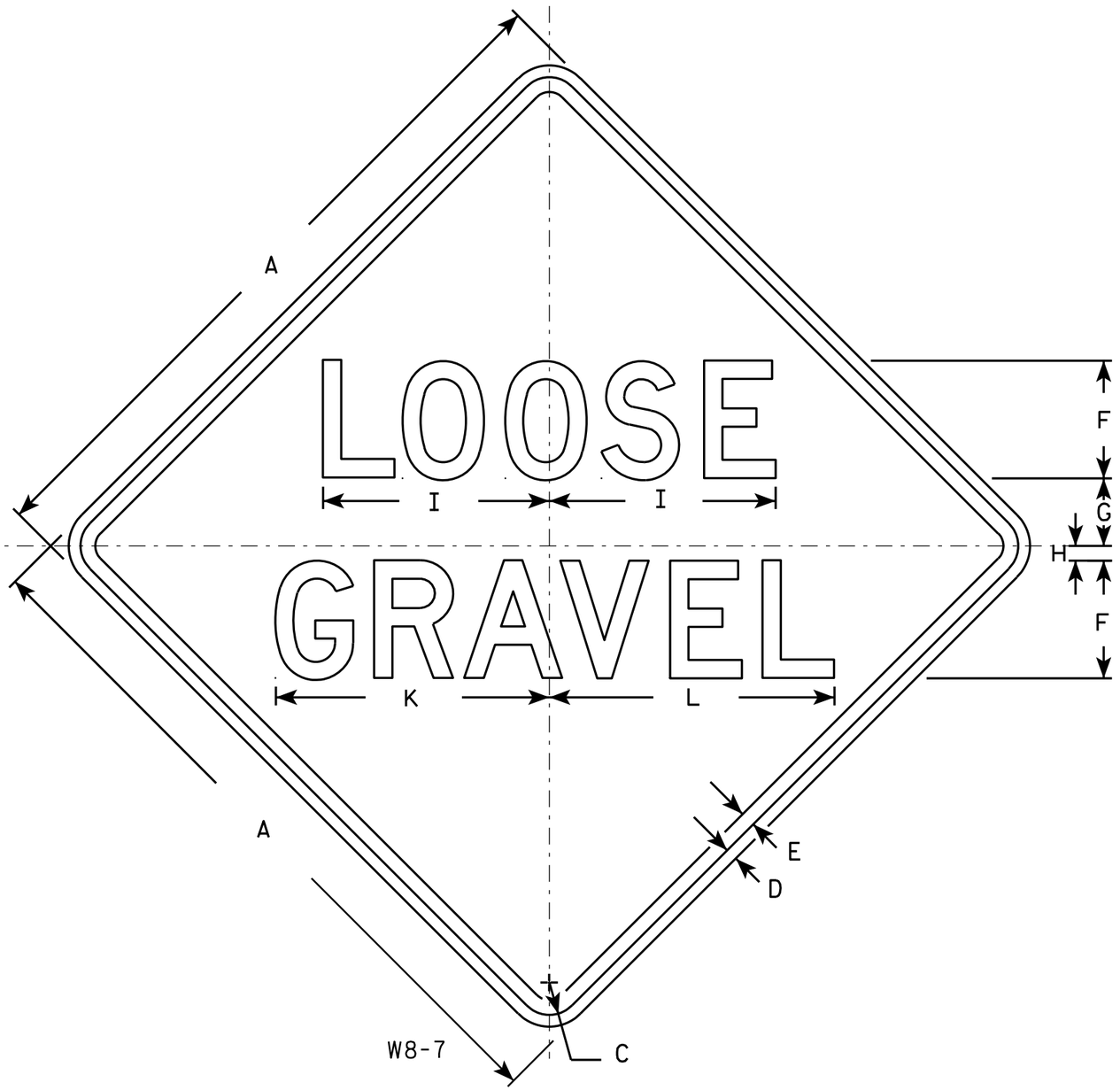
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W7-3.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 201 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W73.DGN PLOT DATE : 12-MAR-2013 14:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.521529:1.000000



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 3/4	1/2	7 3/4		9 1/4	9 3/4															4.0
2S	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
2M	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
3	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
4	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
5	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0

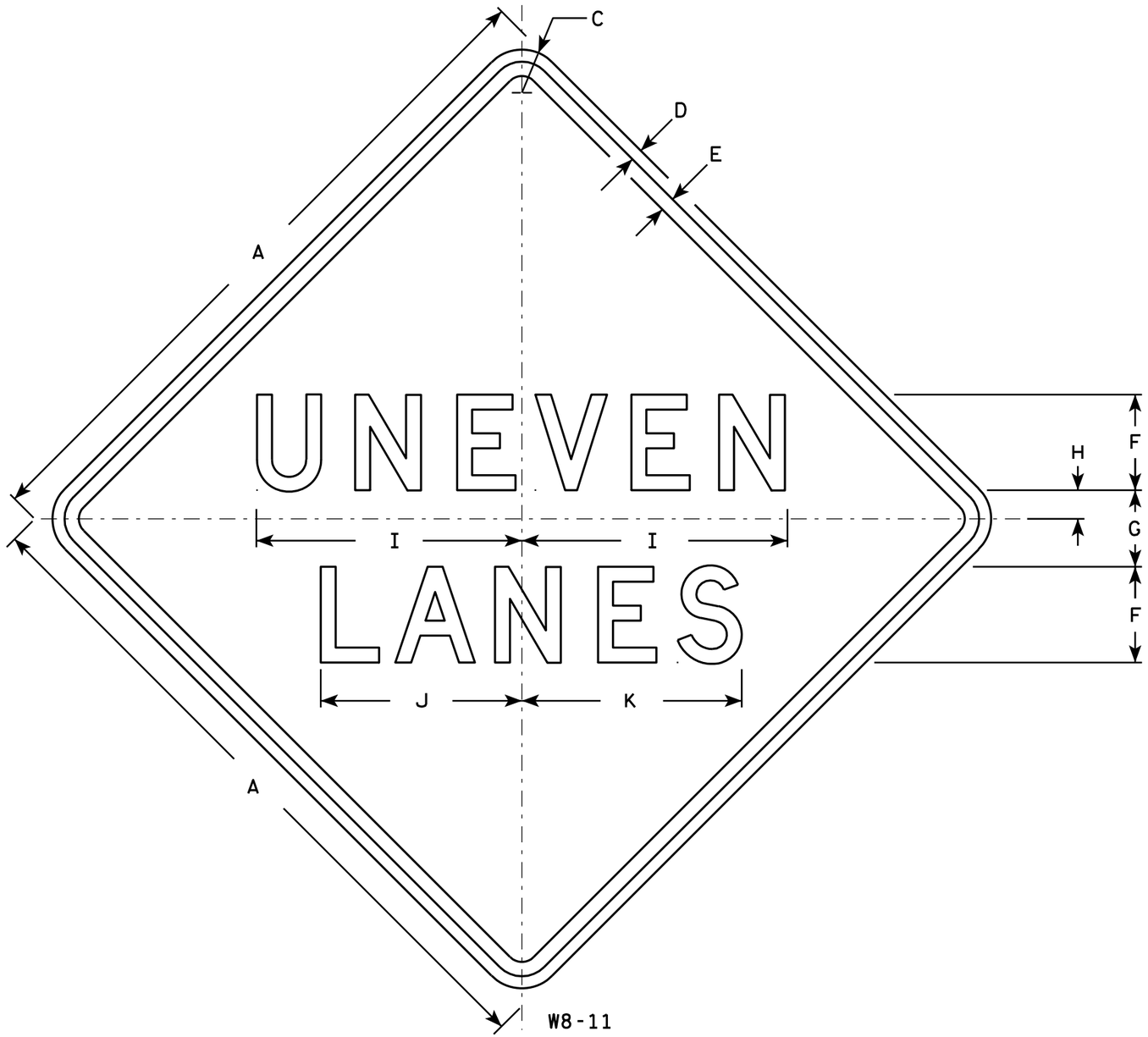
STANDARD SIGN
W8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/30/12 PLATE NO. W8-7.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 202	E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
2M	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
3																											
4	36		1 5/8	5/8	3/4	5	4	1 1/2	13 7/8	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 3/8																16.0

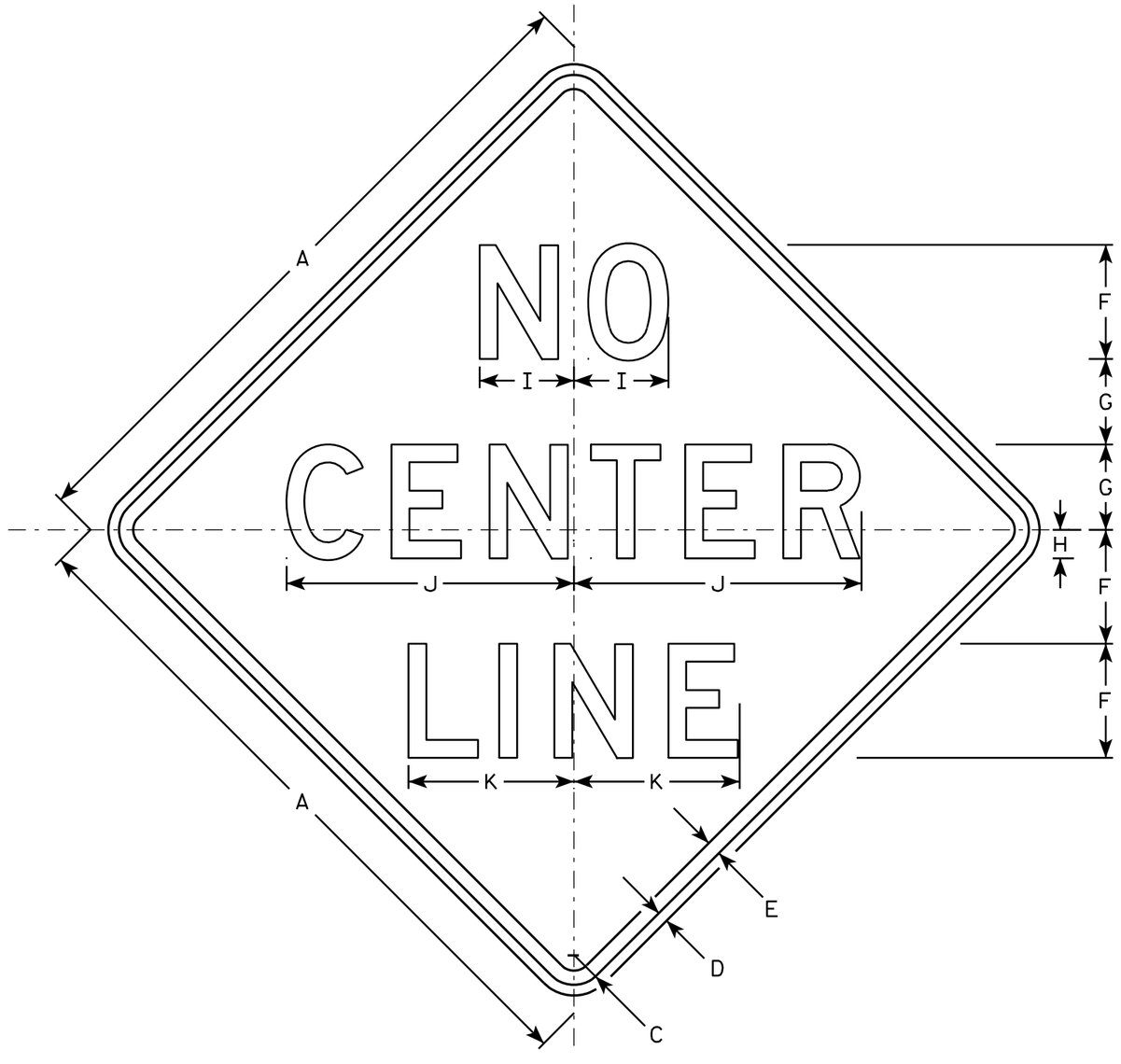
STANDARD SIGN
W8-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W8-11.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E



W8-12

NOTES

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

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

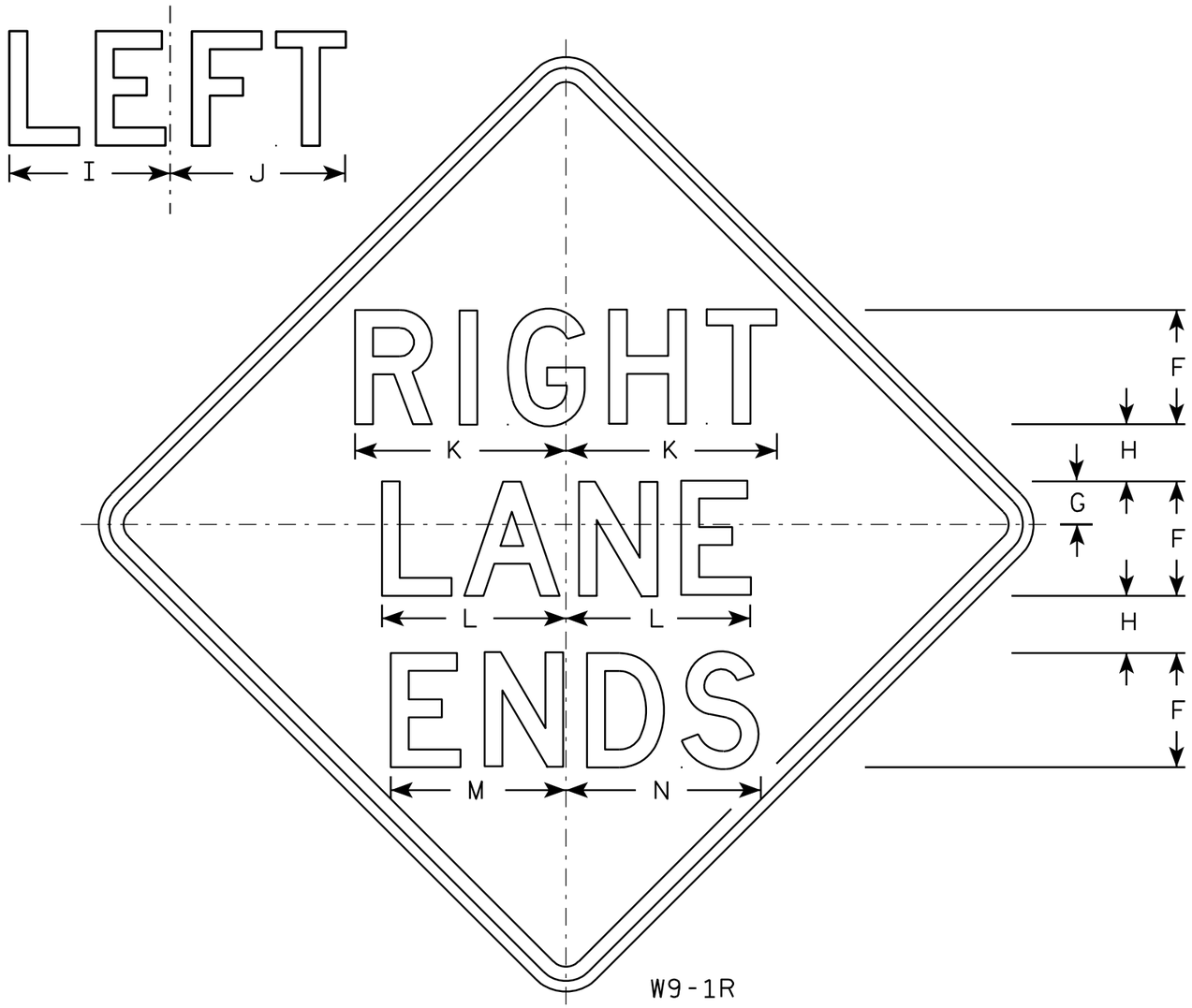
STANDARD SIGN
W8-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rausch
for State Traffic Engineer

DATE 8/24/10 PLATE NO. W8-12.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

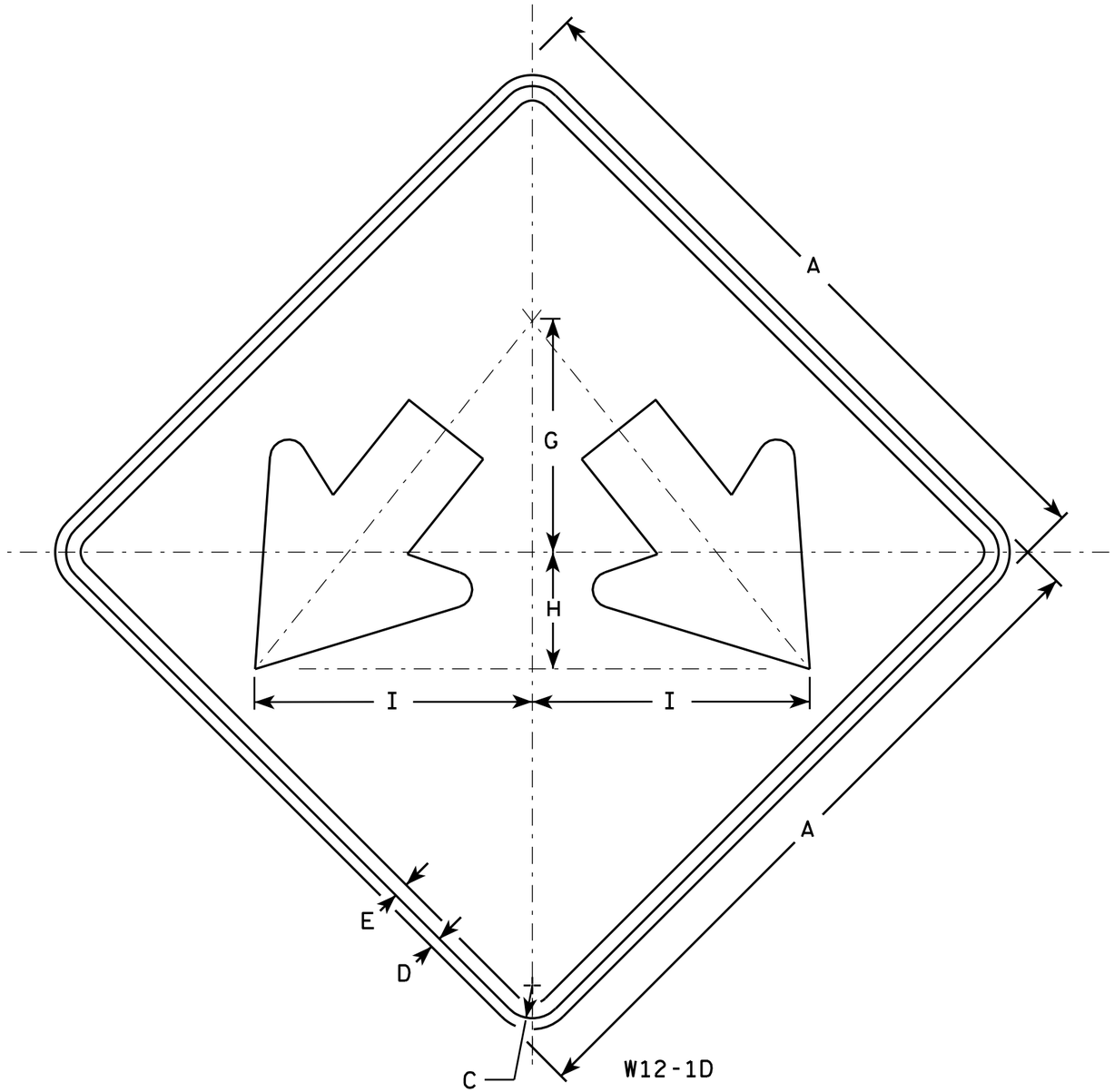
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 205 E

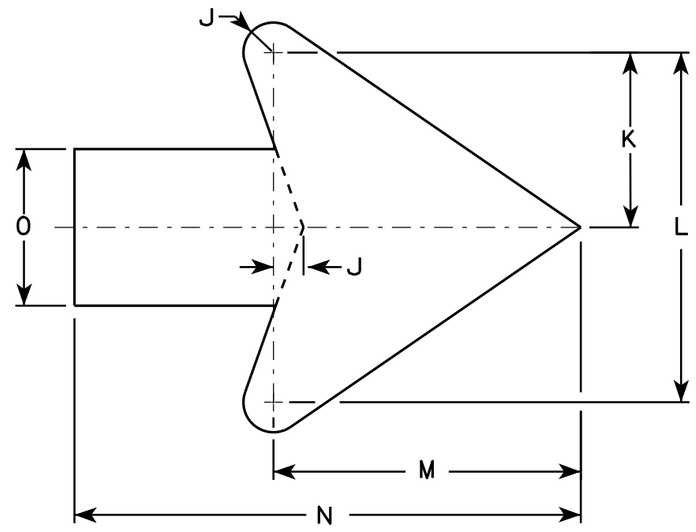
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



NOTES

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



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 206	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

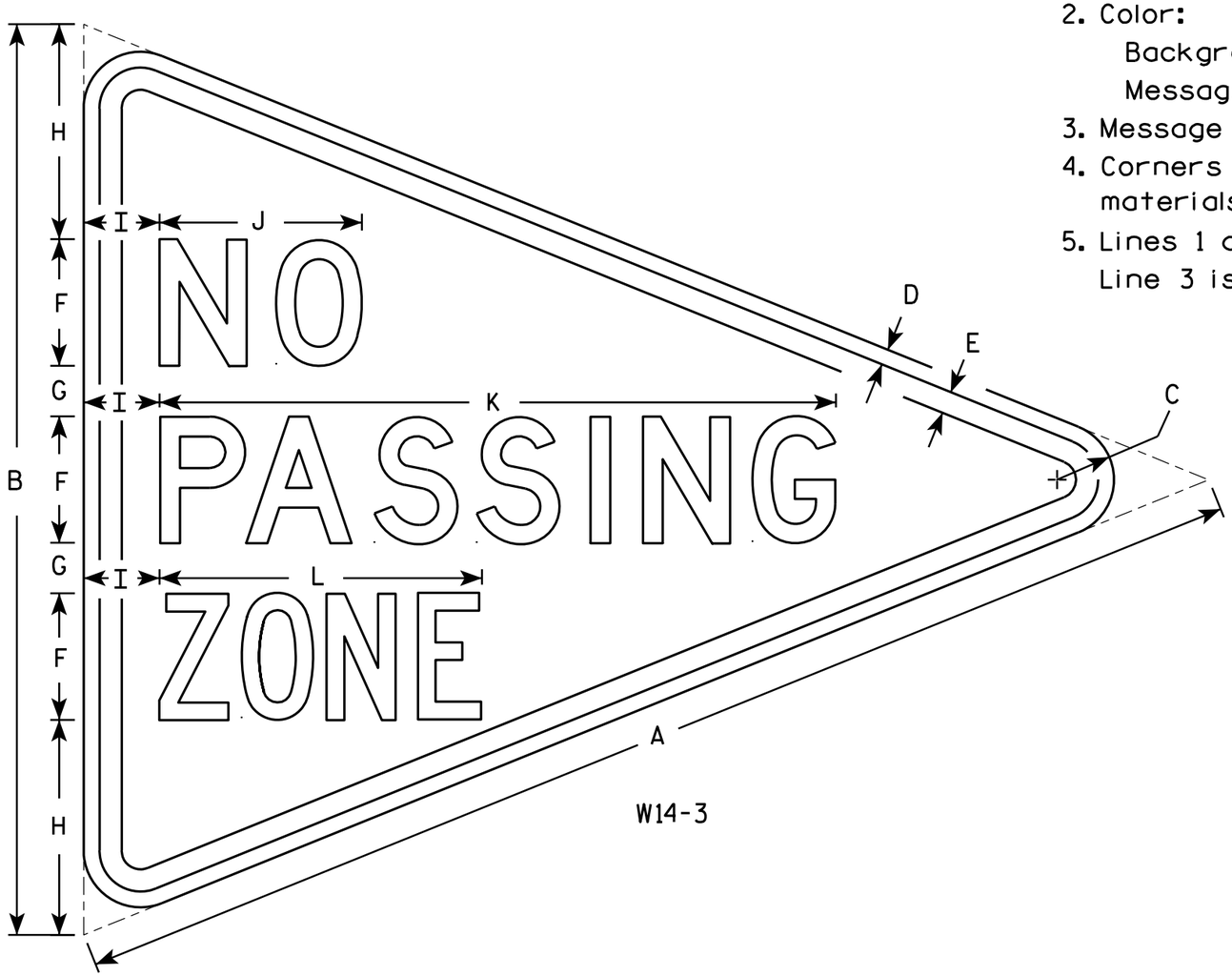
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

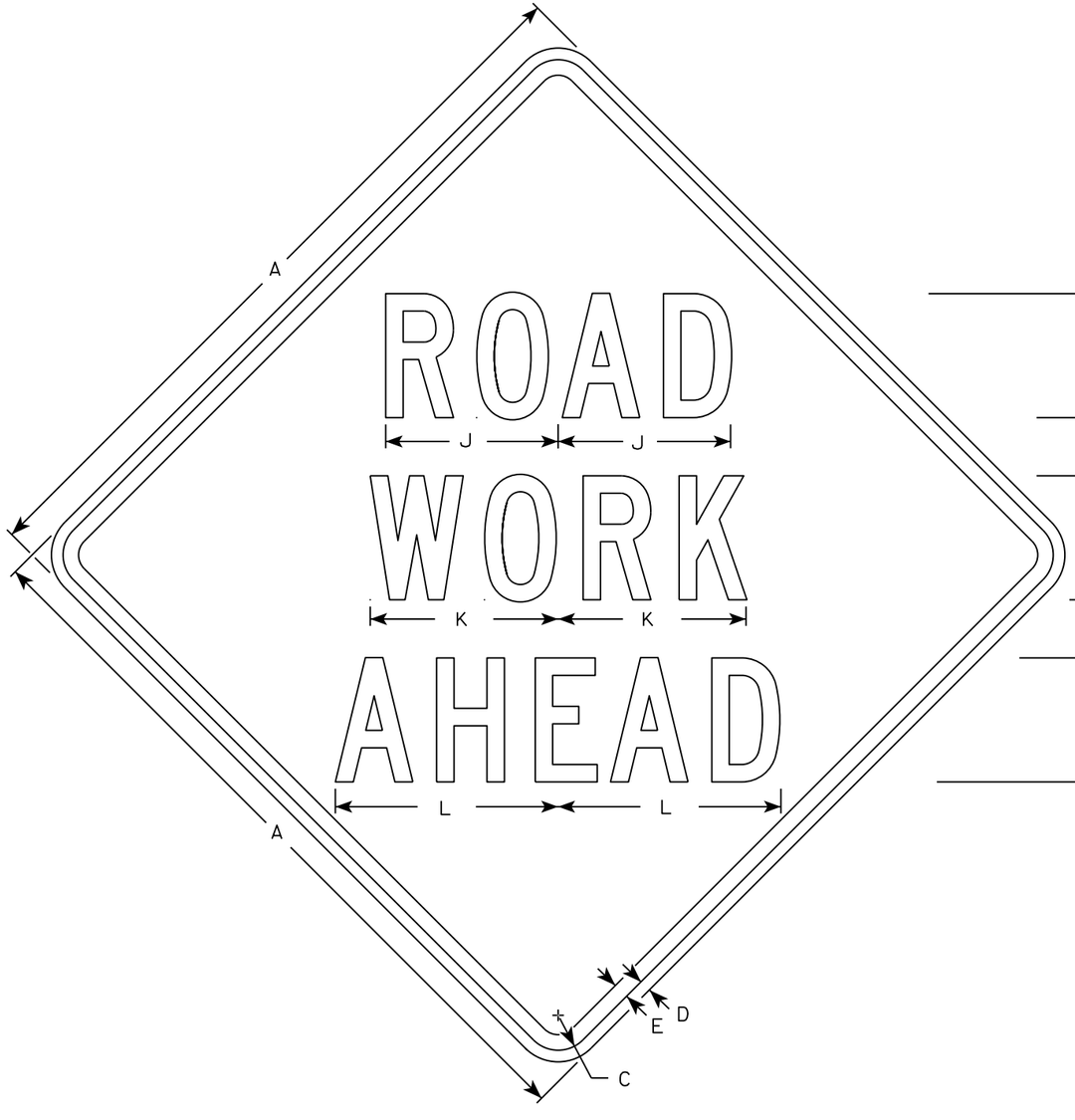
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

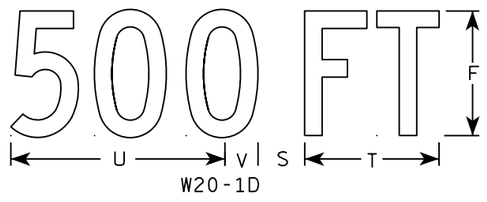
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

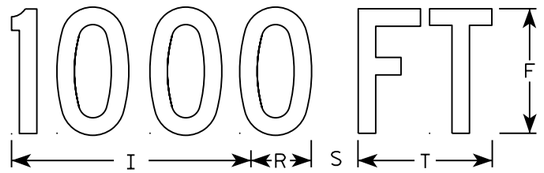
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 207	E



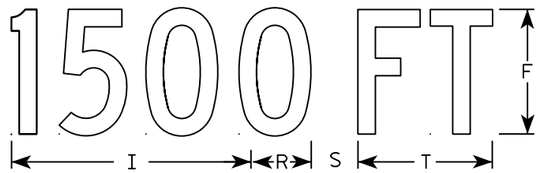
W20-1A



W20-1D



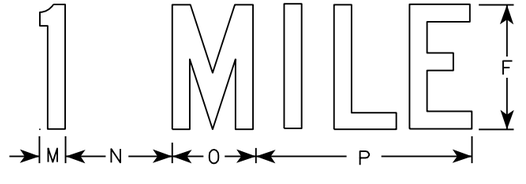
W20-1C



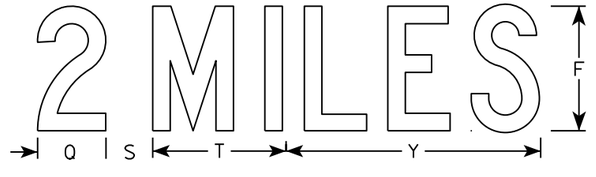
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

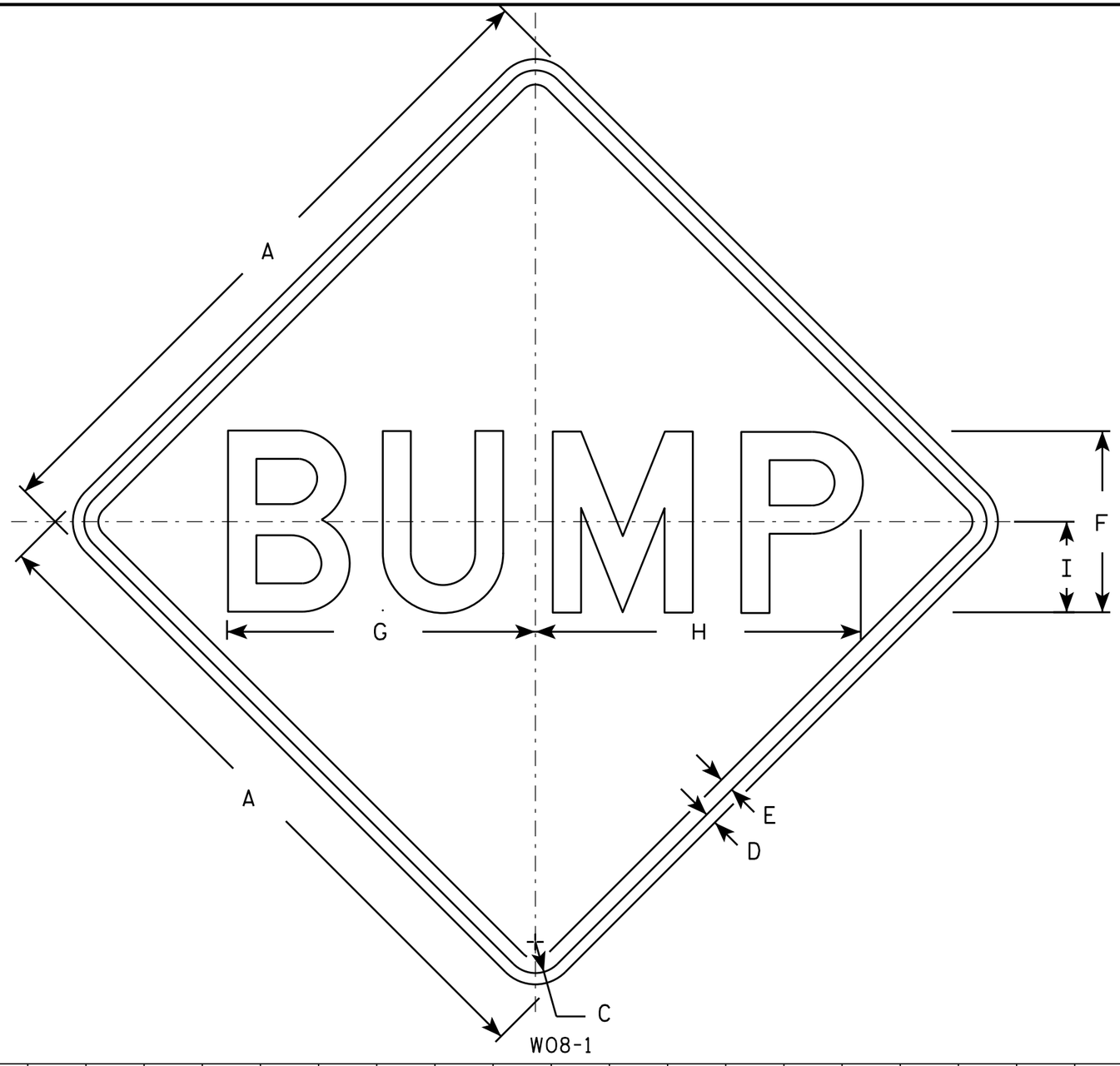
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		2 1/4	3/4	1	12	20 3/8	21 5/8	6																		16.0

STANDARD SIGN
W08-1

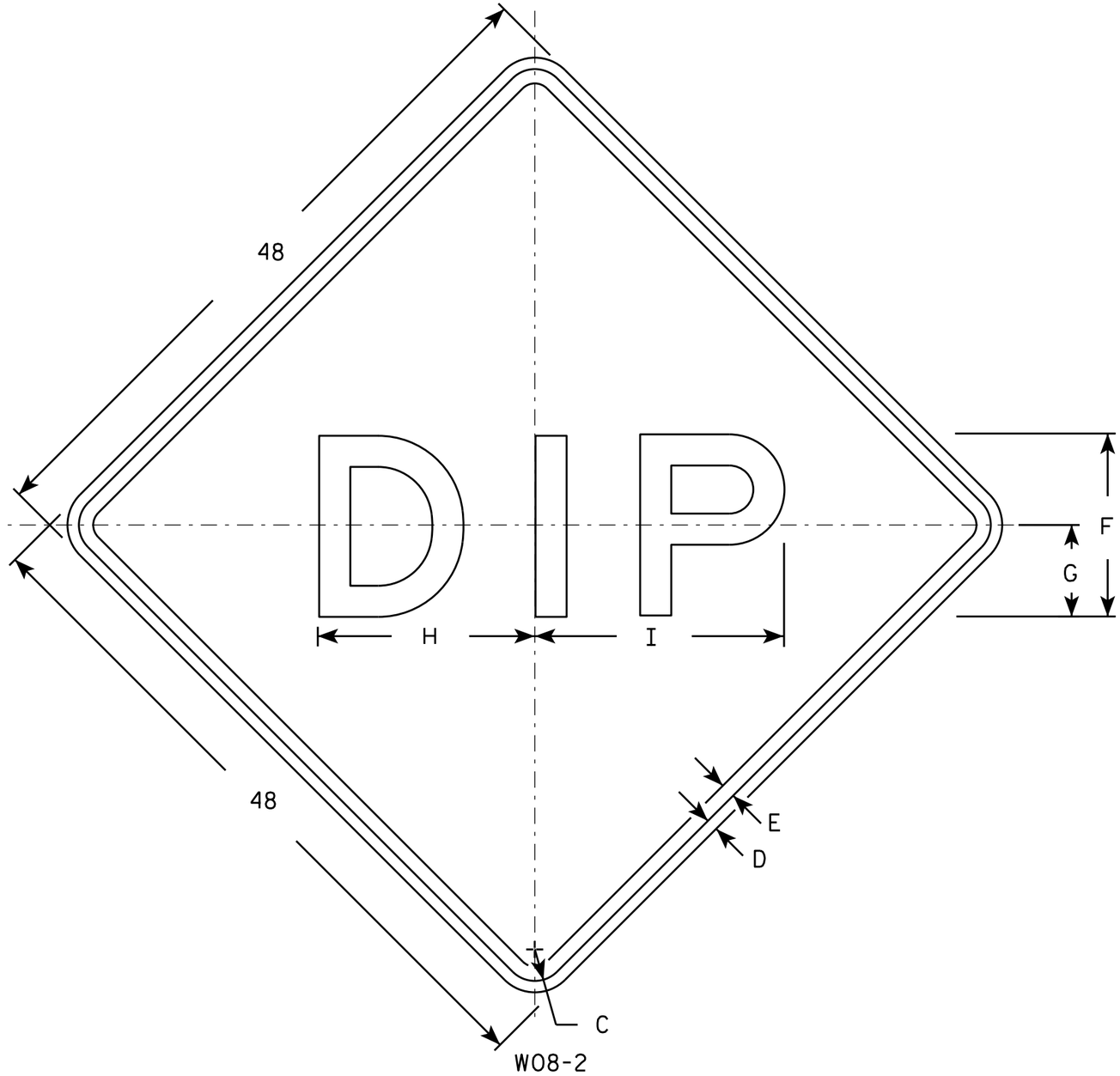
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 209 W08-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W081.DGN PLOT DATE : 20-NOV-2013 12:24 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.688833:1.000000 WISDOT/CADDS SHEET 42



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	10	5	11 7/8	13 1/2																		9.0
2S	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
2M	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
3	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
4	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0
5	48		2 1/4	3/4	1	12	6	14 1/4	16 1/4																		16.0

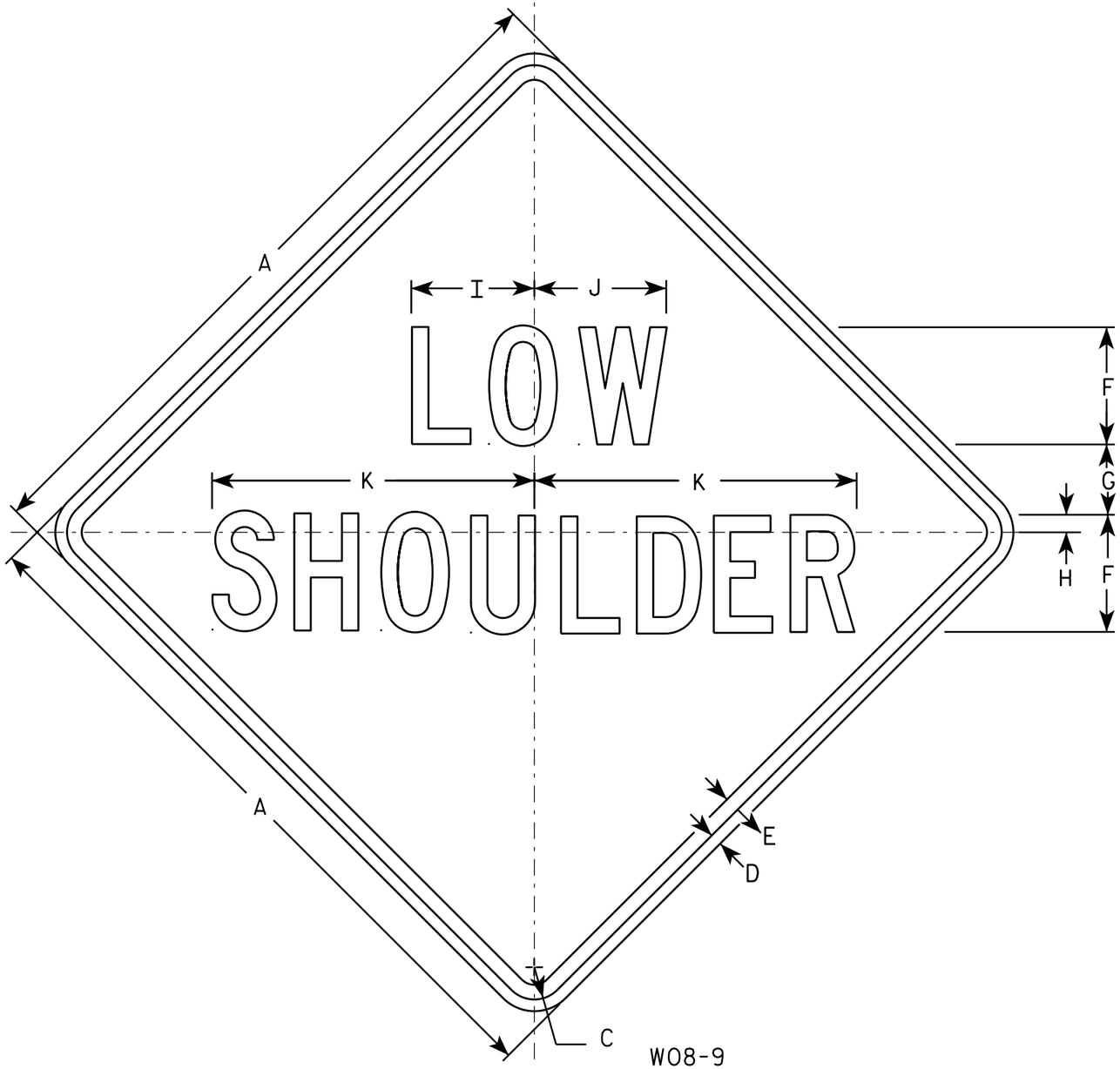
STANDARD SIGN
W08-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1210 3-2.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W08-9

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	3 1/2	1	6 1/4	6 3/4	16 1/2																9.0
2S	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
2M	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
3	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
4	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0
5	48		2 1/4	3/4	1	8	5	1 1/4	8 1/4	9	21 7/8																16.0

STANDARD SIGN
W08-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W08-9.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

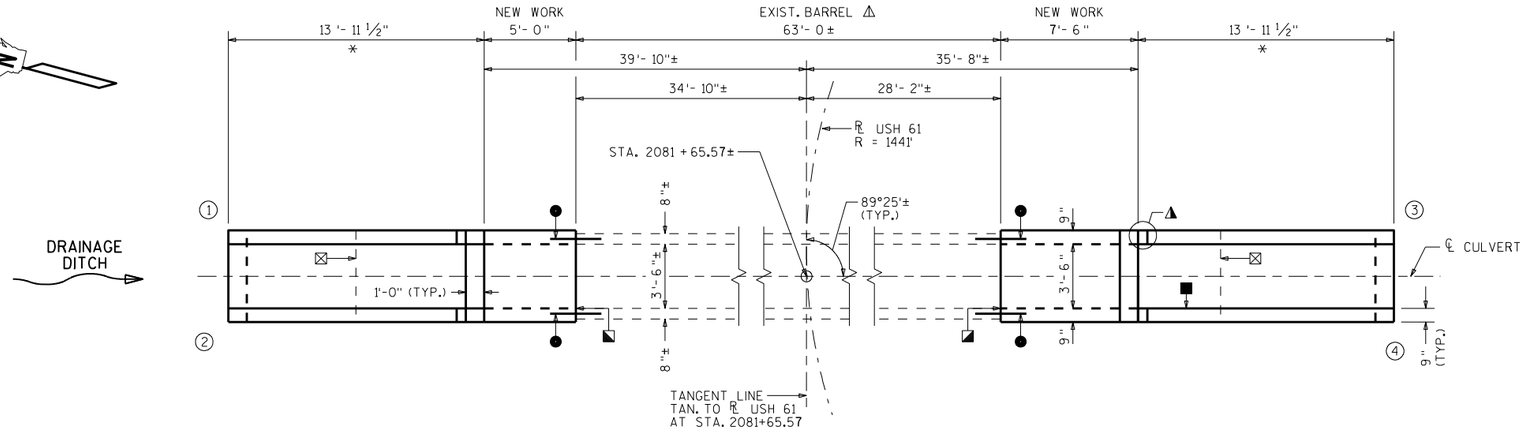
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W089.DGN PLOT DATE : 20-NOV-2013 14:06 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

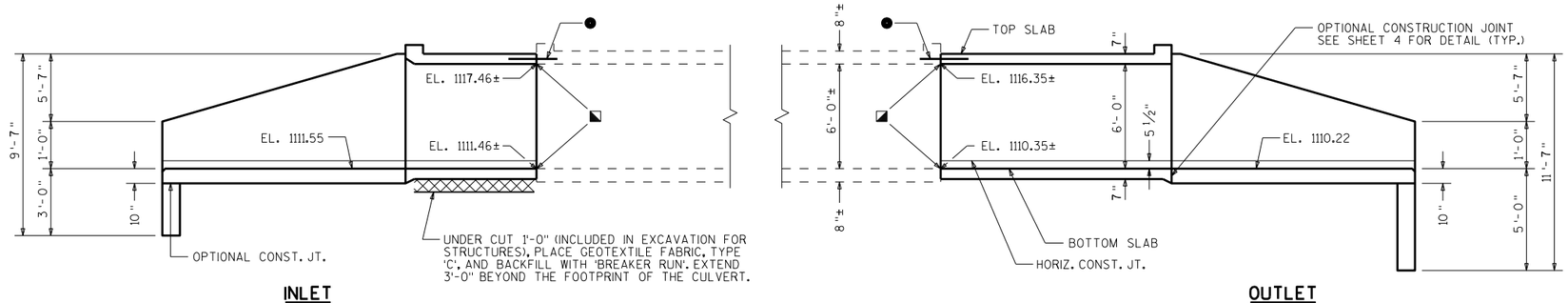
STATE PROJECT NUMBER

1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ☒ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET

OUTLET

ELEVATION

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:

MICAH BROOKS (608) 266-5080

LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61

A.D.T. = 5700 (2037)
R.D.S. = 45 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2081+65.57	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1759	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	298	TON
311.0115	BREAKER RUN	16	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	19	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	1140	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	56	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1759" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1759

USH 61 OVER STORM DRAINAGE

COUNTY	GRANT ~~TOWN/CITY/VILLAGE~~ LANCASTER
DESIGN SPEC.	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

212

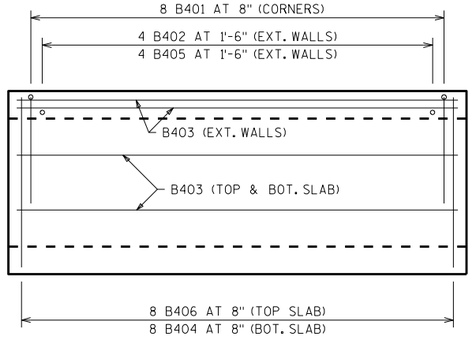
I.D. 1650-06-03A

DATE: NOV. 2016

SCALE = 4

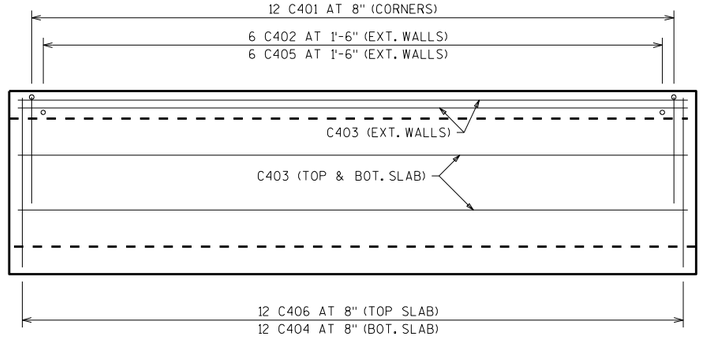
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



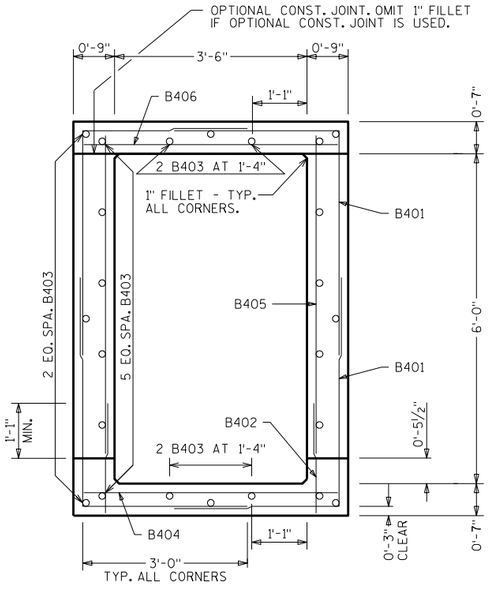
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

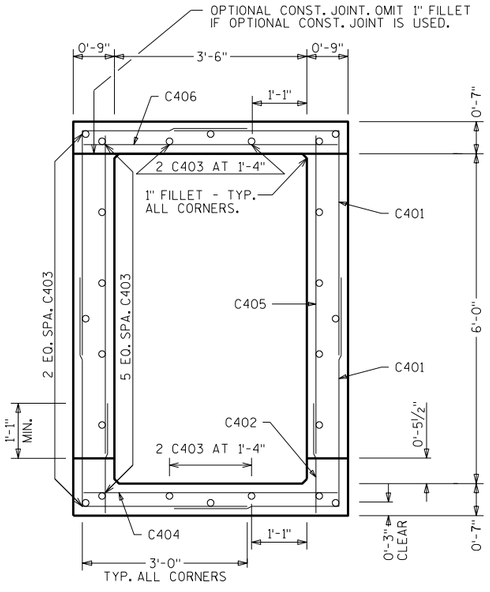
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	32	7-0	3-0	NO	CORNERS
B402	8	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	4-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	8	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	8	5-11	NO	NO	WALLS VERT.
B406	8	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	48	7-0	3-0	NO	CORNERS
C402	12	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	7-0	NO	NO	TOP&BOTTOM SLAB & WALL
C404	12	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	12	5-11	NO	NO	WALLS VERT.
C406	12	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



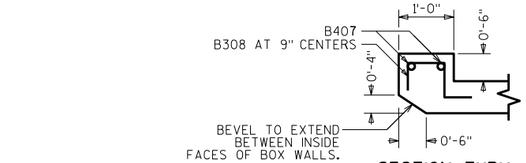
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

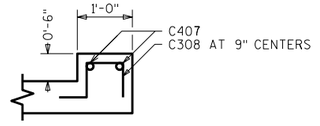


TYPICAL SECTION THRU OUTLET EXTENSION

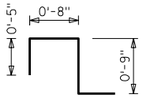
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



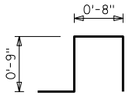
SECTION THRU TOP HEADER AT INLET



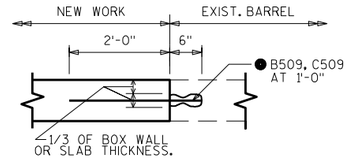
SECTION THRU TOP HEADER AT OUTLET



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1759

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

213

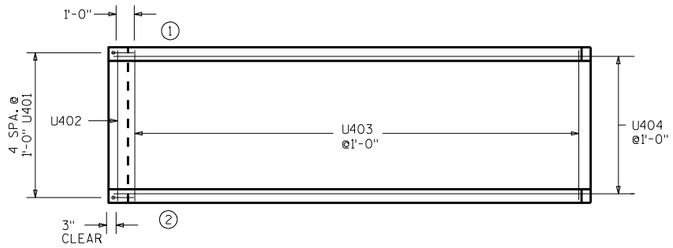
8

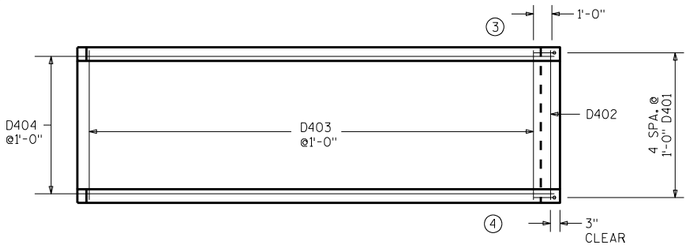
8

SCALE = 4

STATE PROJECT NUMBER

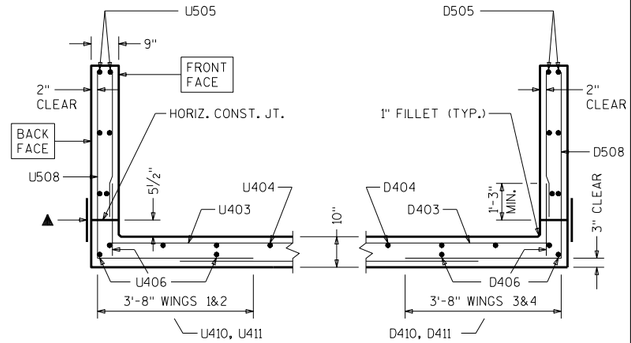
1650-06-73





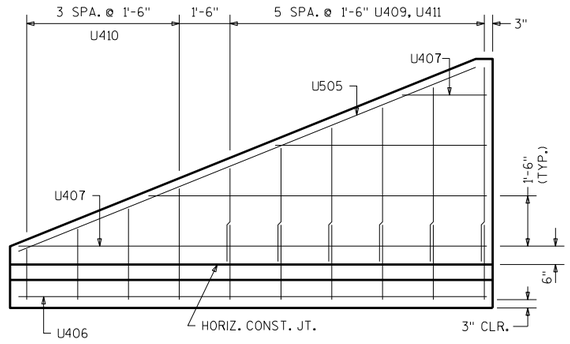
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



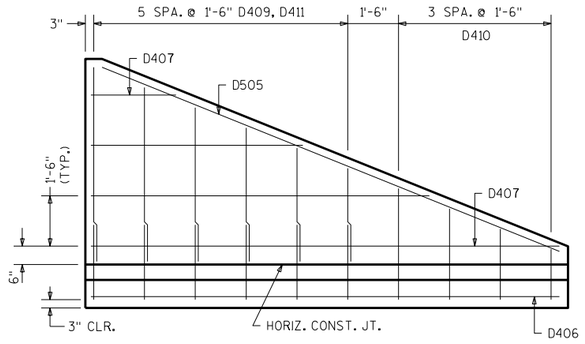
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



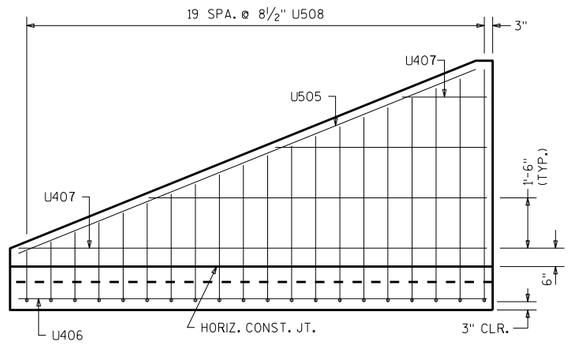
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



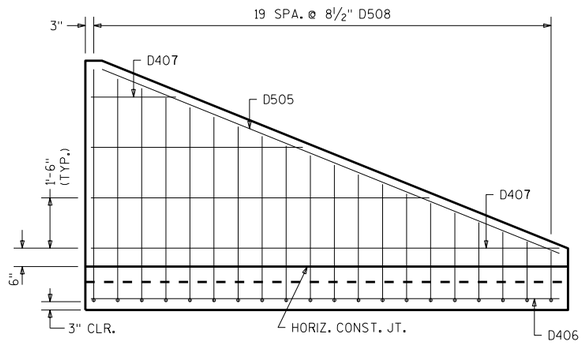
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



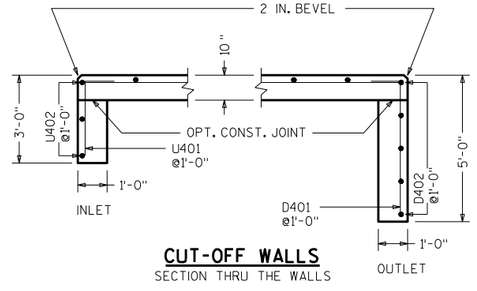
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



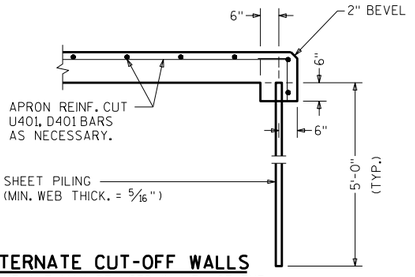
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1759

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

214

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

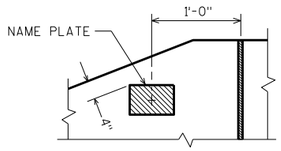
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

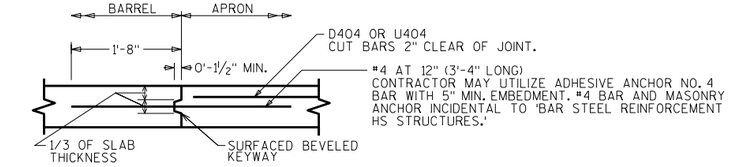
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

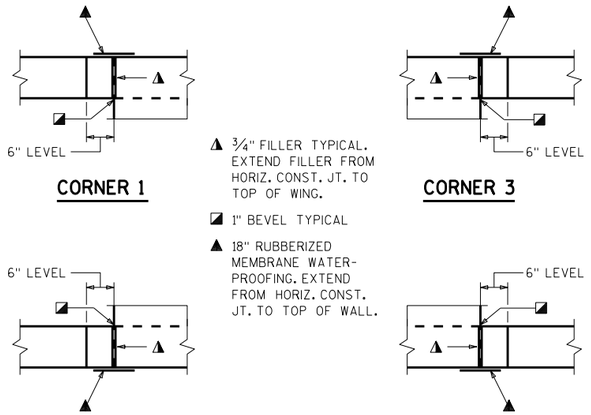


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1
CORNER 3
CORNER 2
CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1759

DRAWN BY MWB | PLANS CK'D. DFD

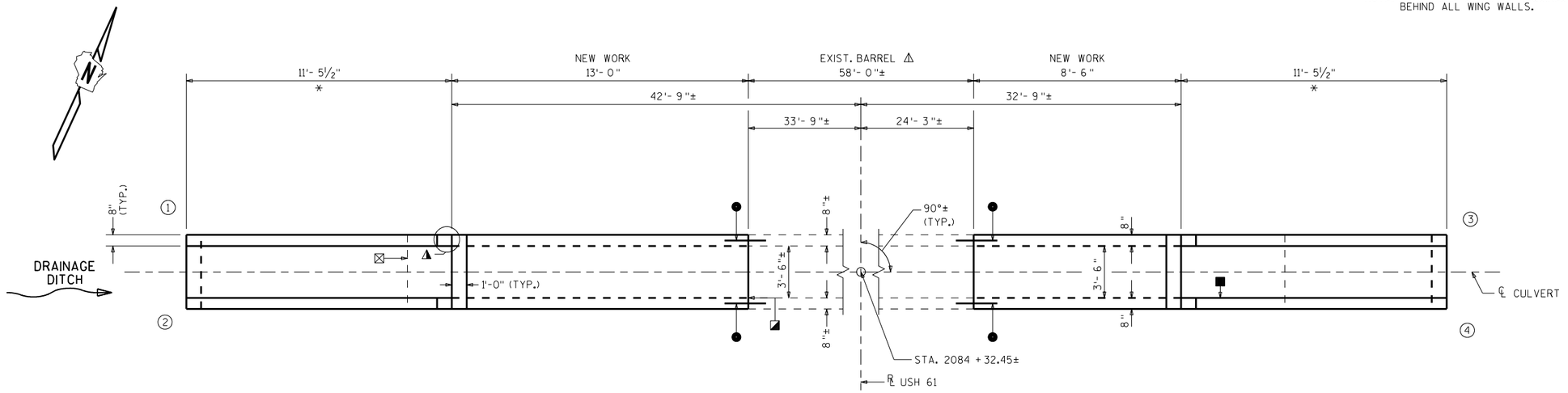
DETAILS

SHEET 4

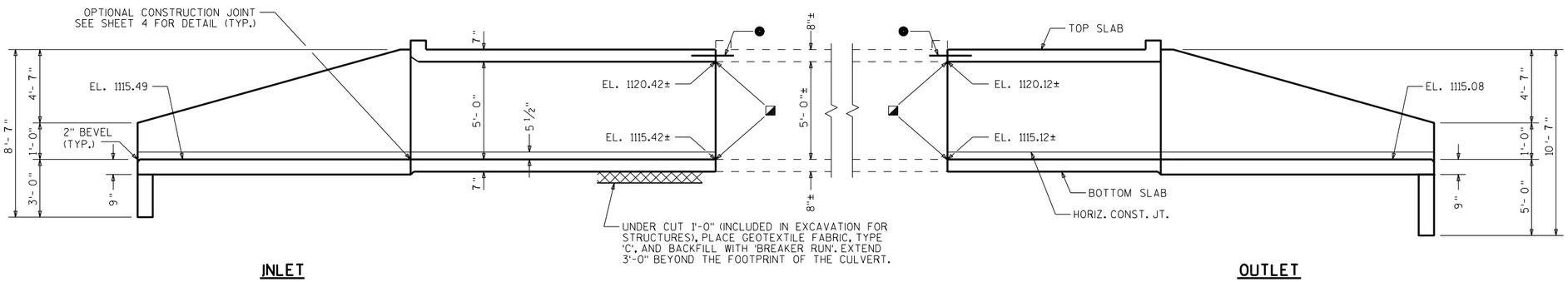
215

SCALE = 4

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.



PLAN



INLET **OUTLET**

ELEVATION

STATE PROJECT NUMBER

1650-06-73

- ⚠ SEE CORNER DETAILS SHT 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ☒ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 3.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5700 (2037)
R.D.S. = 40 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2084+32.45	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1760	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	286	TON
311.0115	BREAKER RUN	17	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	30	EACH
504.0100	CONCRETE MASONRY CULVERTS	18	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	1300	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	850	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	17	SY
645.0105	GEOTEXTILE TYPE C	59	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1760" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1760

USH 61 OVER STORM DRAINAGE

COUNTY: GRANT
TOWN/~~CITY/VILLAGE~~: NORTH LANCASTER

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

216

I.D. 1650-06-03B

DATE: NOV. 2016

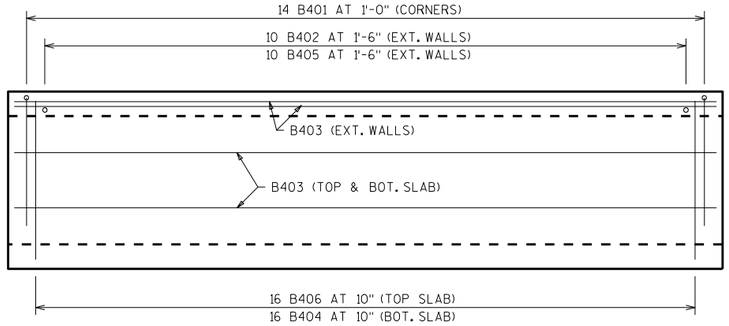
SCALE = 4

8

8

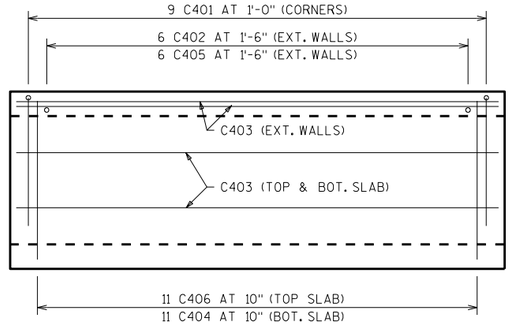
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET PANEL

APRON AND HEADER ARE NOT SHOWN.



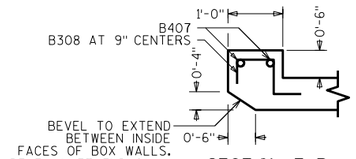
PLAN VIEW OF OUTLET PANEL

APRON AND HEADER ARE NOT SHOWN.

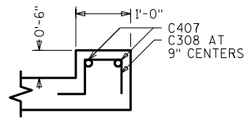
BILL OF BARS

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.

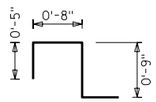
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	56	5-9	2-3	NO	CORNERS
B402	20	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	12-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	16	4-6	NO	NO	BOTTOM SLAB TRANS.
B405	20	4-11	NO	NO	WALLS VERT.
B406	16	4-6	NO	NO	TOP SLAB TRANS.
B407	2	4-6	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	15	2-6	NO	NO	VERT. CONST. JOINTS
C401	36	5-9	2-3	NO	CORNERS
C402	12	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	8-0	NO	NO	TOP&BOTTOM SLAB & WALL
C404	11	4-6	NO	NO	BOTTOM SLAB TRANS.
C405	12	4-11	NO	NO	WALLS VERT.
C406	11	4-6	NO	NO	TOP SLAB TRANS.
C407	2	4-6	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	15	2-6	NO	NO	VERT. CONST. JOINTS



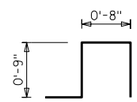
SECTION THRU TOP HEADER AT INLET



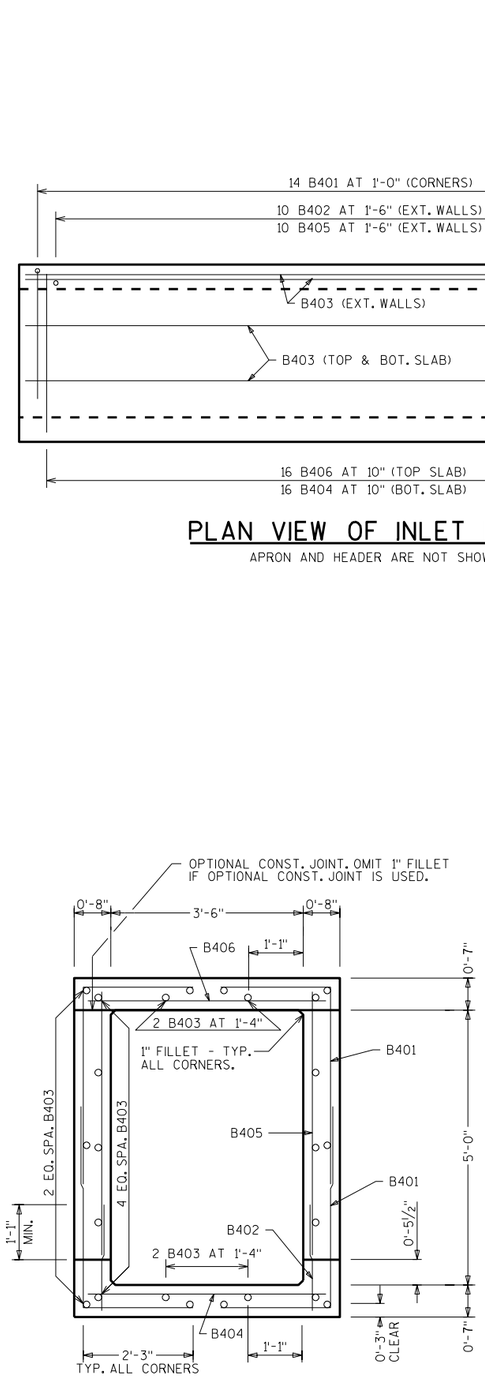
SECTION THRU TOP HEADER AT OUTLET



B308

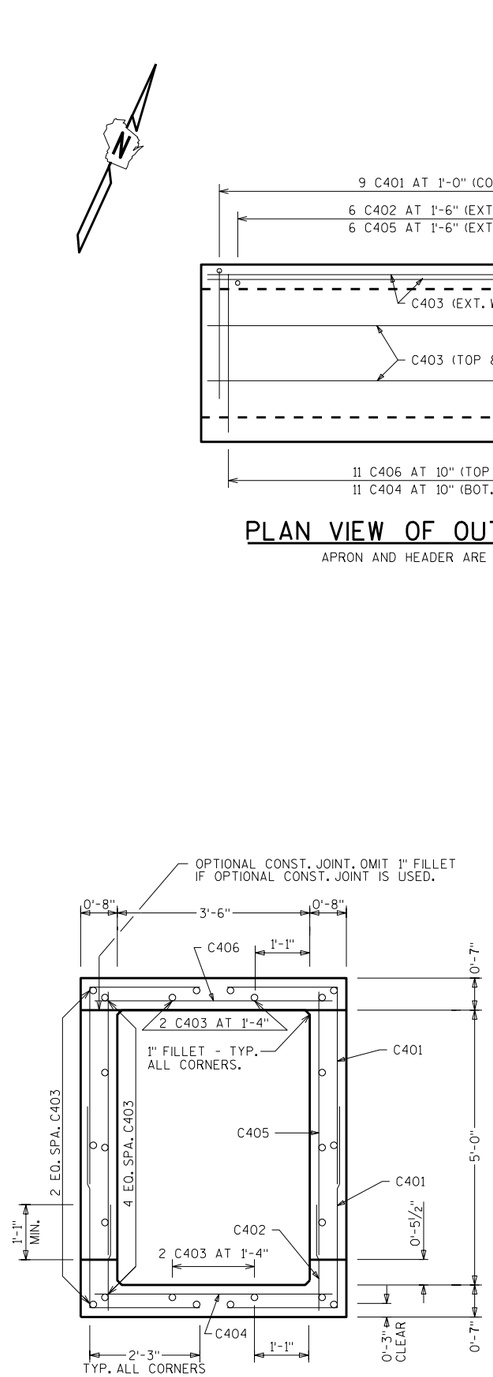


C308



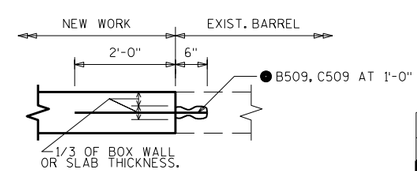
TYPICAL SECTION THRU INLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1760

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

217

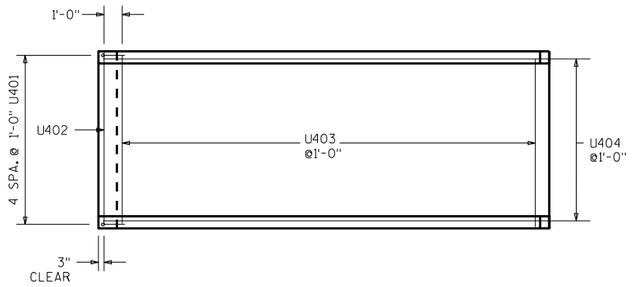
SCALE = 4

8

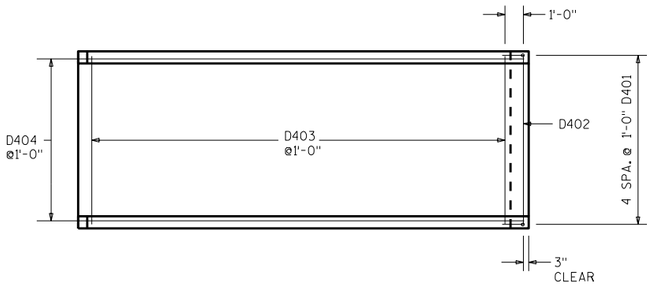
8

STATE PROJECT NUMBER

1650-06-73

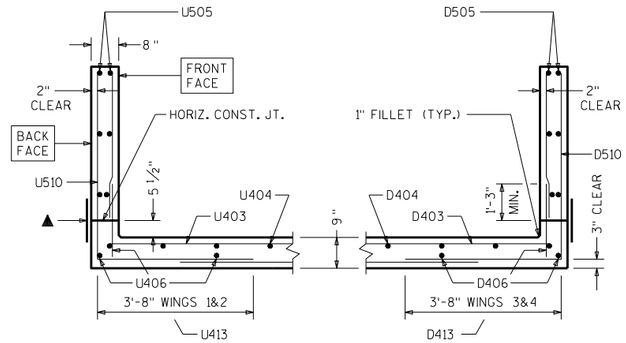






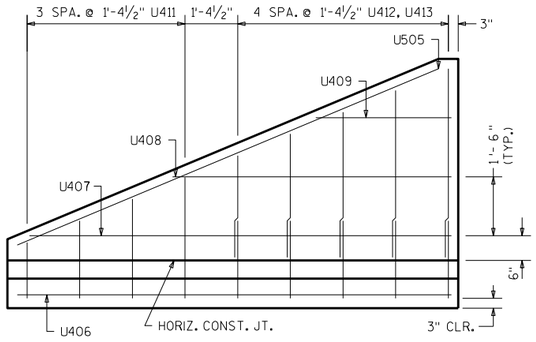
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



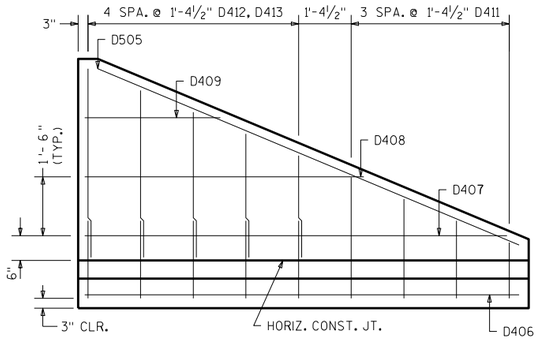
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



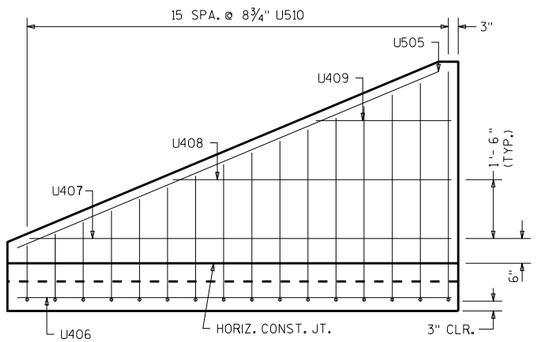
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



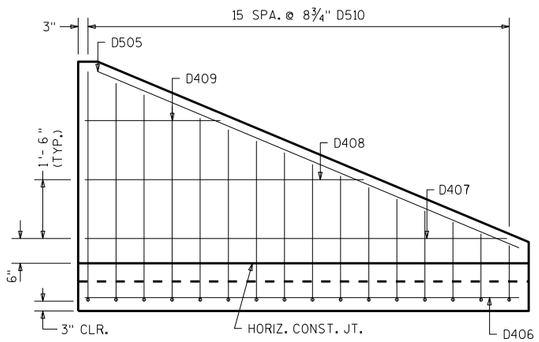
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



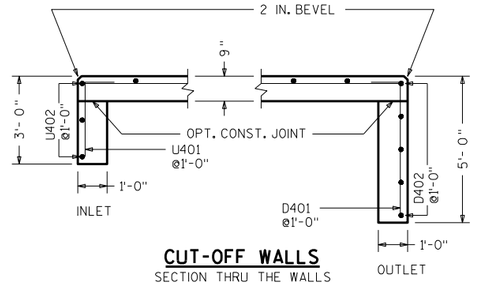
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



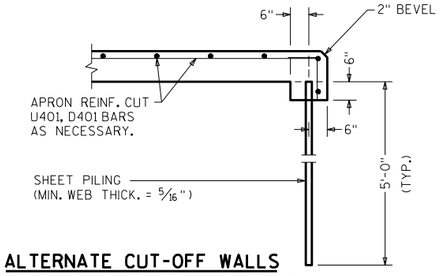
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1760

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

218

SCALE = 4

8

8

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

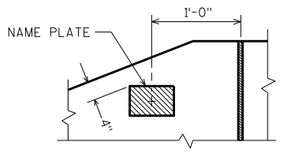
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 6			INLET APRON AND CUTOFF WALL
U403		11	4 - 6			" APRON
U404		5	13 - 6			" APRON
U505	X	4	12 - 0			WINGS 1&2 -HORIZONTAL -BOTH FACES
U406	X	3	11 - 1			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	4	10 - 10			WINGS "-HORIZONTAL - BOTH FACES
U408	X	4	7 - 3			WINGS "-HORIZONTAL - BOTH FACES
U409	X	4	3 - 8			WINGS "-HORIZONTAL - BOTH FACES
U510	X	32	7 - 3	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U411	X	8	2 - 4		*	WINGS "-VERTICAL - FRONT FACE
U412	X	10	3 - 10		*	WINGS "-VERTICAL - FRONT FACE
U413	X	10	2 - 3			WINGS " -DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 6			OUTLET APRON AND CUTOFF WALL
D403		11	4 - 6			" APRON
D404		5	13 - 6			" APRON
D505	X	4	12 - 0			WINGS 3&4 -HORIZONTAL -BOTH FACES
D406	X	3	11 - 1			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	4	10 - 10			WINGS "-HORIZONTAL - BOTH FACES
D408	X	4	7 - 3			WINGS "-HORIZONTAL - BOTH FACES
D409	X	4	3 - 8			WINGS "-HORIZONTAL - BOTH FACES
D510	X	32	7 - 3	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D411	X	8	2 - 4		*	WINGS "-VERTICAL - FRONT FACE
D412	X	10	3 - 10		*	WINGS "-VERTICAL - FRONT FACE
D413	X	10	2 - 3			WINGS " -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.

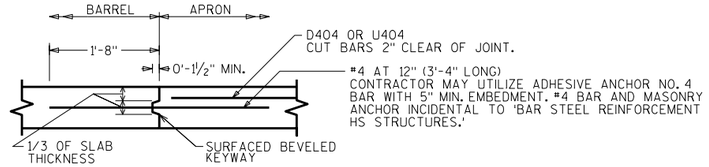
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U510	2 SERIES OF 16	4 - 11 TO 9 - 5
U411	2 SERIES OF 4	1 - 5 TO 3 - 2
U412	2 SERIES OF 5	2 - 9 TO 4 - 11
D510	2 SERIES OF 16	4 - 11 TO 9 - 5
D411	2 SERIES OF 4	1 - 5 TO 3 - 2
D412	2 SERIES OF 5	2 - 9 TO 4 - 11

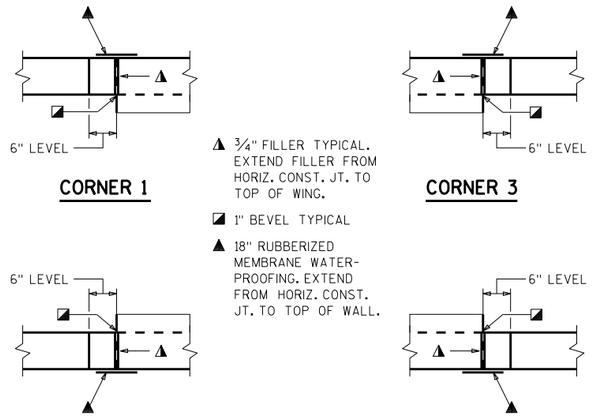


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1760

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

219

SCALE = 4

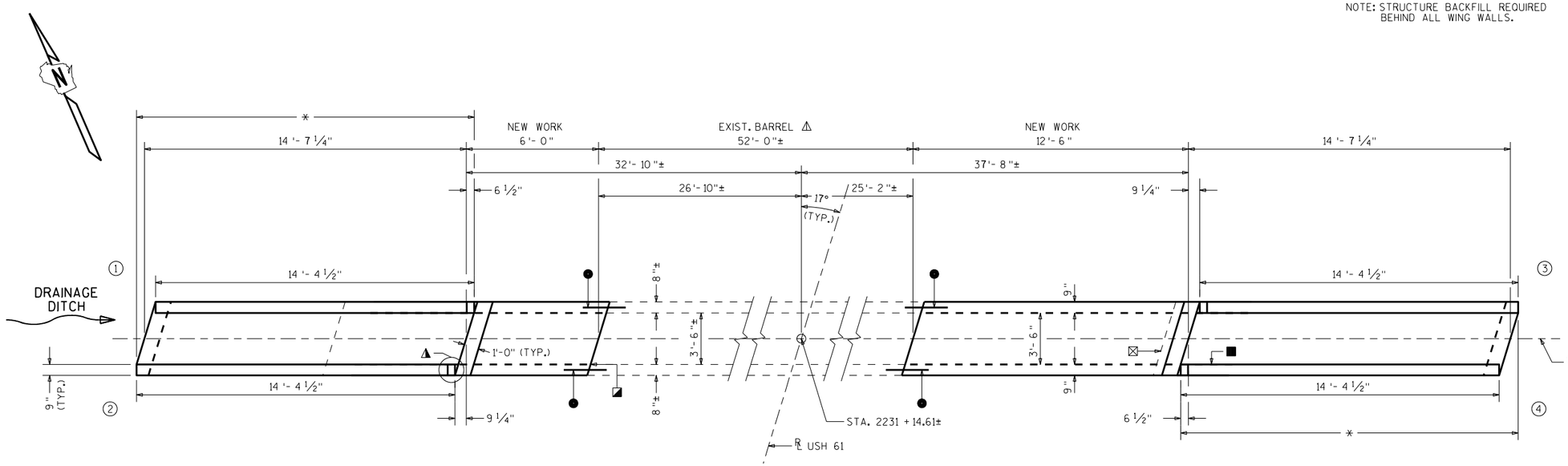
8

8

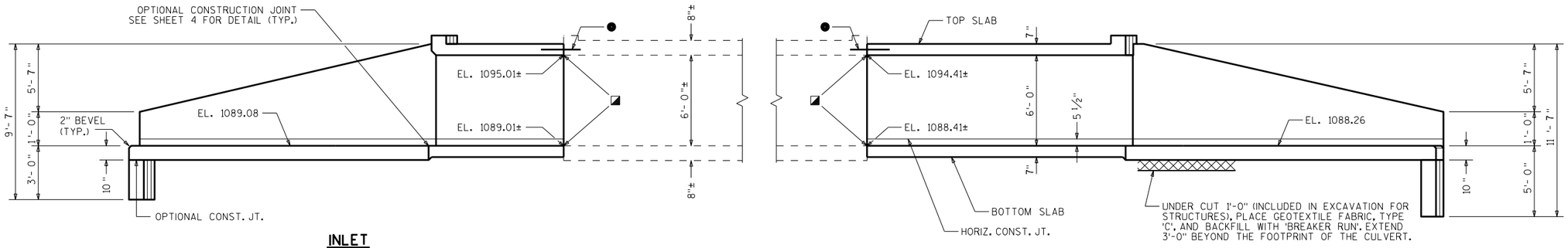
STATE PROJECT NUMBER

1650-06-73

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.



PLAN



INLET

ELEVATION

OUTLET

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ◬ EXIST. BARREL TO REMAIN IN PLACE
- ✳ BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ☒ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61

A.D.T. = 6150 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2231+14.61	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1762	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	366	TON
311.0115	BREAKER RUN	18	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	36	EACH
504.0100	CONCRETE MASONRY CULVERTS	23	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	1510	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1150	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	22	SY
645.0105	GEOTEXTILE TYPE C	68	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1762" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1762

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN ~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

220

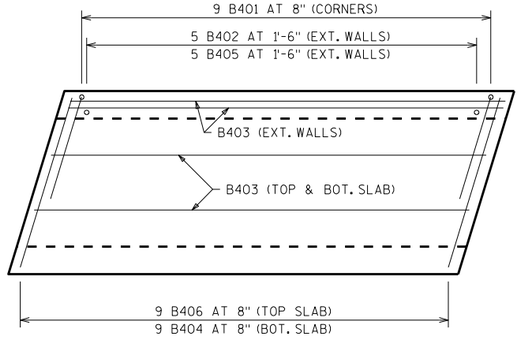
I.D. 1650-06-03C

DATE: NOV. 2016

SCALE = 4

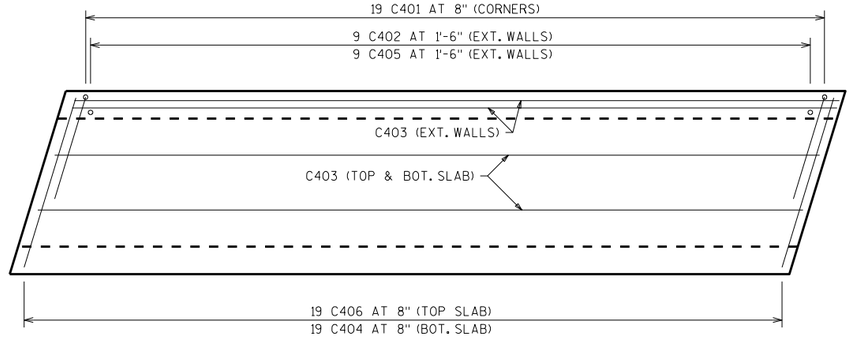
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



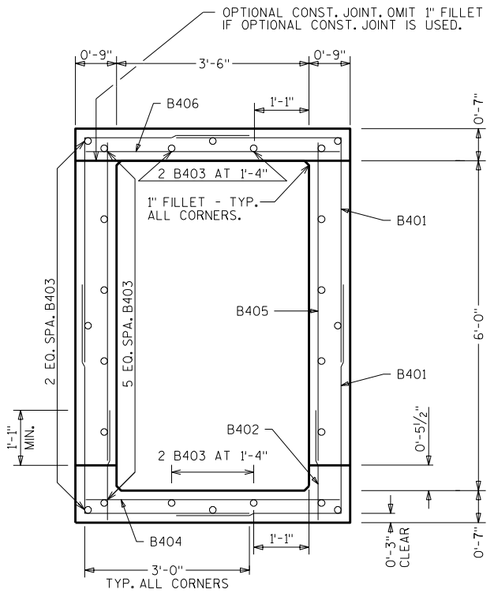
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

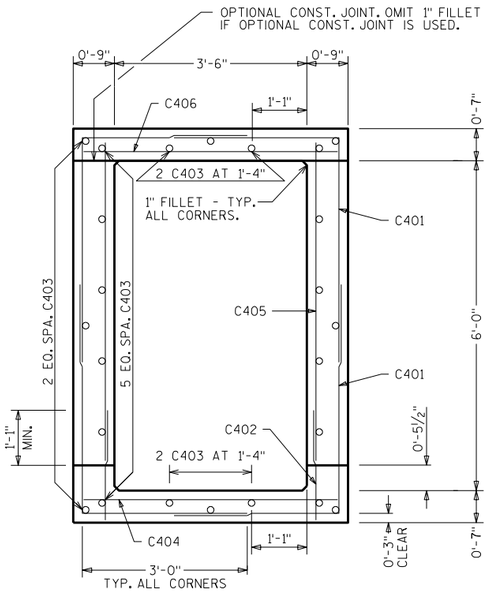
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	36	7-0	3-0	NO	CORNERS
B402	10	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	5-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	9	4-10	NO	NO	BOTTOM SLAB TRANS.
B405	10	5-11	NO	NO	WALLS VERT.
B406	9	4-10	NO	NO	TOP SLAB TRANS.
B407	2	4-10	NO	NO	HEADERS HORIZ.
B308	8	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	18	2-6	NO	NO	VERT. CONST. JOINTS
C401	76	7-0	3-0	NO	CORNERS
C402	18	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	12-0	NO	NO	TOP&BOTTOM SLAB & WALL
C404	19	4-10	NO	NO	BOTTOM SLAB TRANS.
C405	18	5-11	NO	NO	WALLS VERT.
C406	19	4-10	NO	NO	TOP SLAB TRANS.
C407	2	4-10	NO	NO	HEADERS HORIZ.
C308	8	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	18	2-6	NO	NO	VERT. CONST. JOINTS



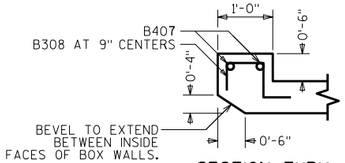
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

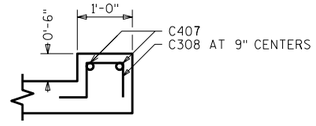


TYPICAL SECTION THRU OUTLET EXTENSION

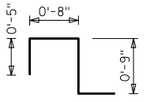
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



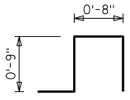
SECTION THRU TOP HEADER AT INLET



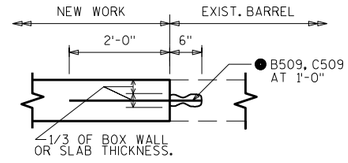
SECTION THRU TOP HEADER AT OUTLET



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1762

DRAWN BY | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

221

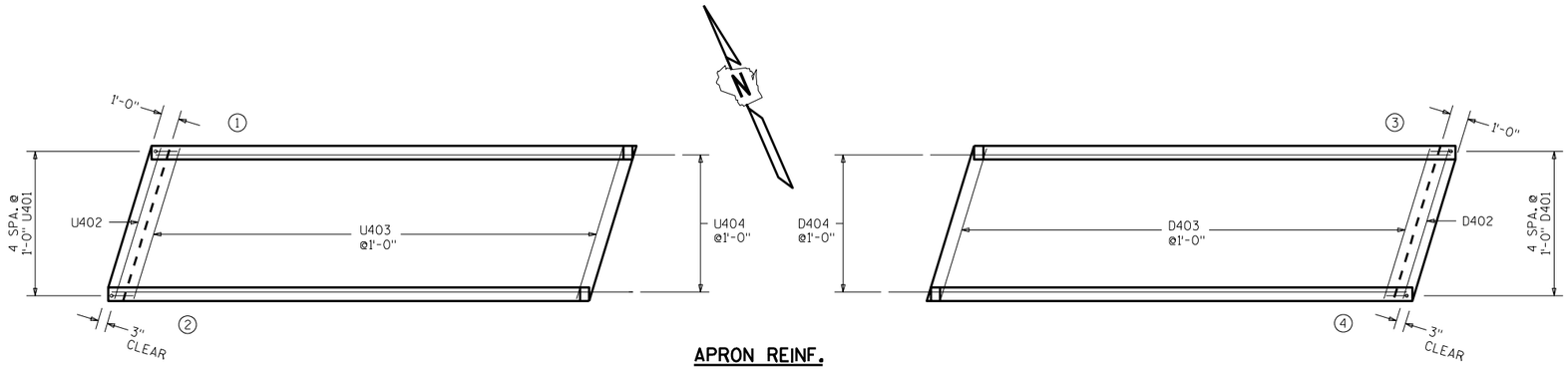
SCALE = 4

8

8

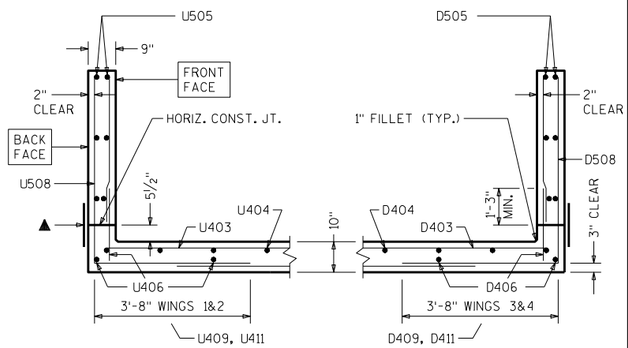
STATE PROJECT NUMBER

1650-06-73



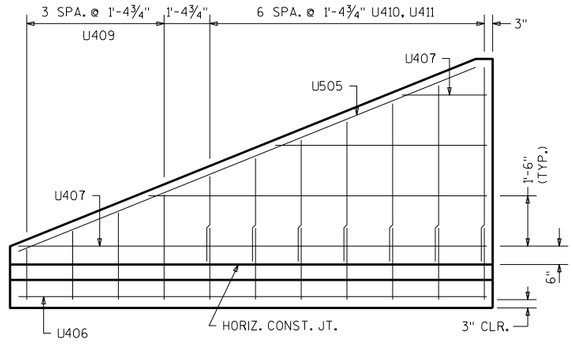
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



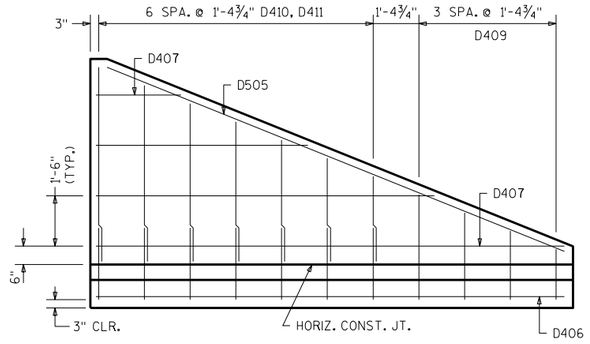
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



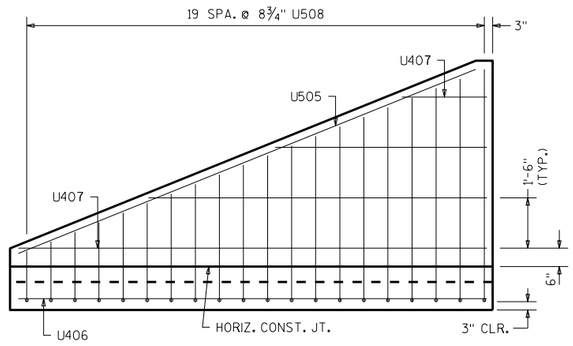
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



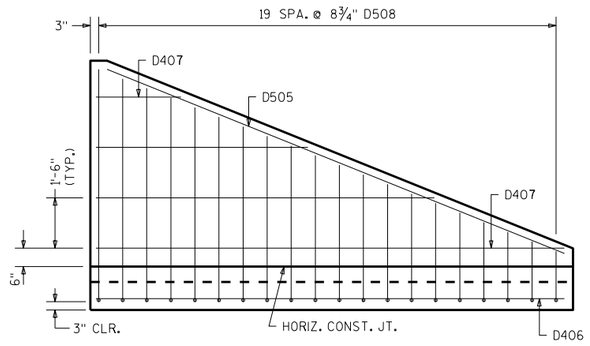
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



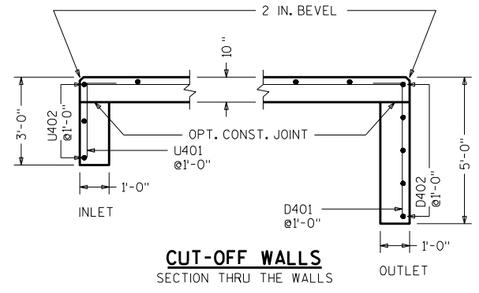
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



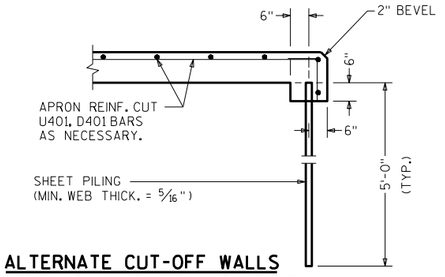
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1762

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

222

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

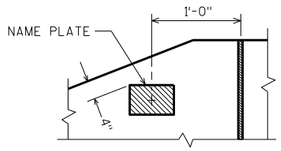
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 10			INLET APRON AND CUTOFF WALL
U403		13	4 - 10			" APRON
U404		5	16 - 7			" APRON
U505	X	4	14 - 7			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	14 - 0			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 4		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	8	2 - 4		*	WINGS "-VERTICAL - FRONT FACE
U410	X	14	4 - 4		*	WINGS "-VERTICAL - FRONT FACE
U411	X	14	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 10			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 10			" APRON
D404		5	16 - 7			" APRON
D505	X	4	14 - 7			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	14 - 0			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 4		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	8	2 - 4		*	WINGS "-VERTICAL - FRONT FACE
D410	X	14	4 - 4		*	WINGS "-VERTICAL - FRONT FACE
D411	X	14	2 - 2			WINGS "-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.

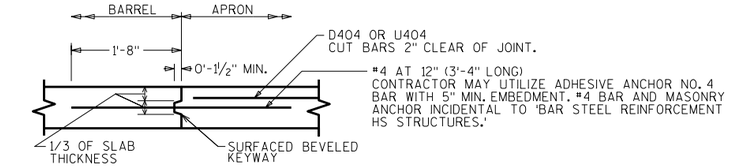
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 10 TO 13 - 11
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 4	1 - 6 TO 3 - 2
U410	2 SERIES OF 7	2 - 8 TO 5 - 11
D407	4 SERIES OF 4	2 - 10 TO 13 - 11
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 4	1 - 6 TO 3 - 2
D410	2 SERIES OF 7	2 - 8 TO 5 - 11

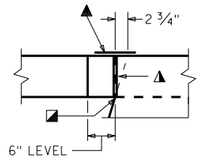


NAME PLATE LOCATION
WING 4

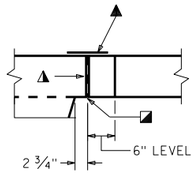


OPTIONAL CONSTRUCTION JOINT

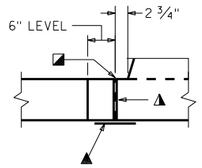
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



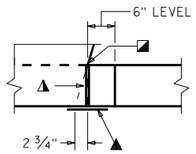
CORNER 1



CORNER 3



CORNER 2



CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1762

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

223

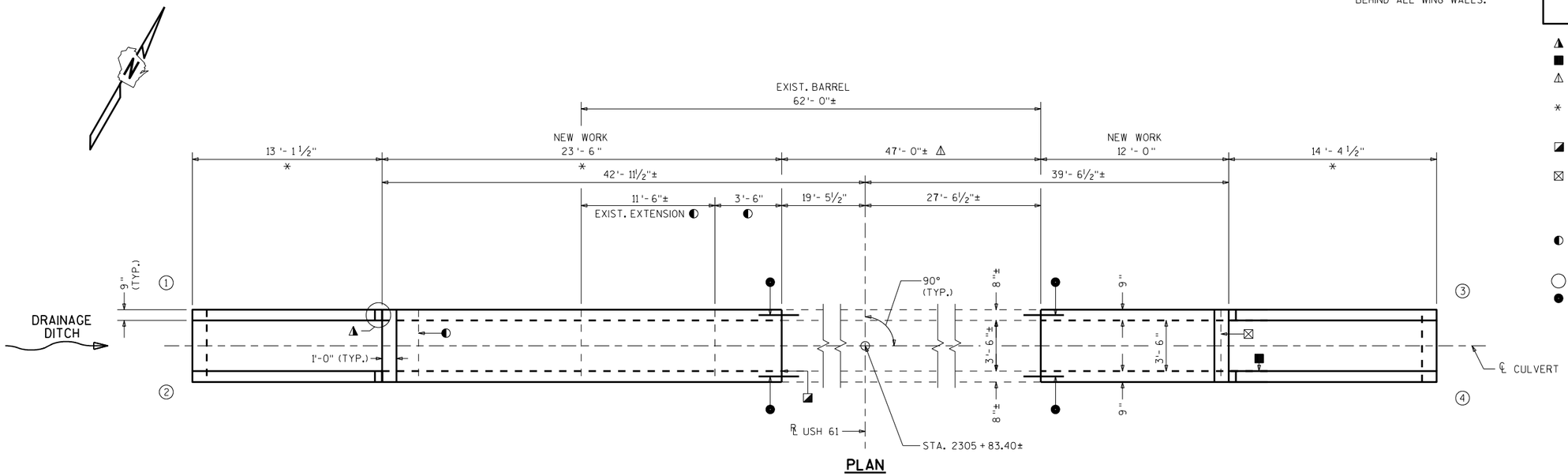
SCALE = 4

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

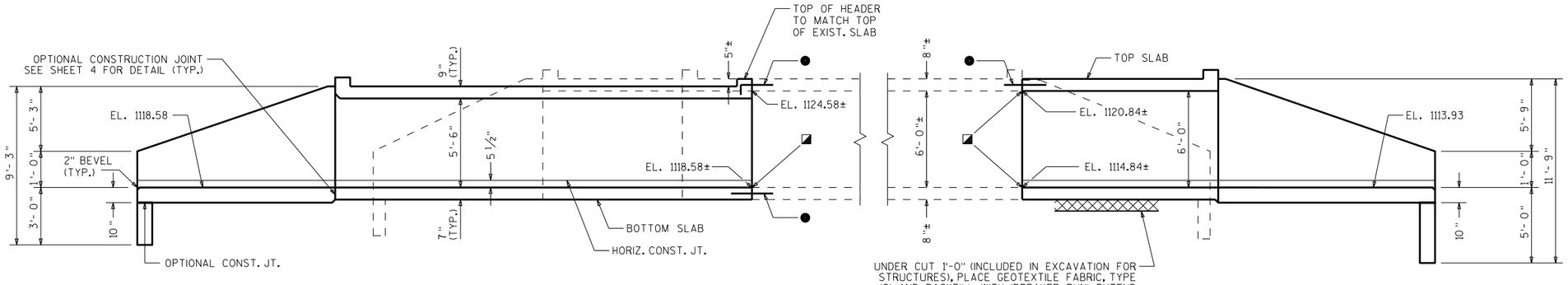
STATE PROJECT NUMBER

1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL AT OUTLET END. BUILD EXTENSION ENTIRELY LEVEL AT INLET END.
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◐ REMOVE EXISTING APRON AND WINGS, EXISTING 11'-6" EXTENSION, AND 3'-6" OF EXISTING BARREL.
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLABS, AND BOT. SLAB AT INLET END).



PLAN



INLET ELEVATION OUTLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 0.5 TO 5.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2305+83.40	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1763	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	524	TON
311.0115	BREAKER RUN	25	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	32	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2490	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1130	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	91	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1763" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1763

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

224

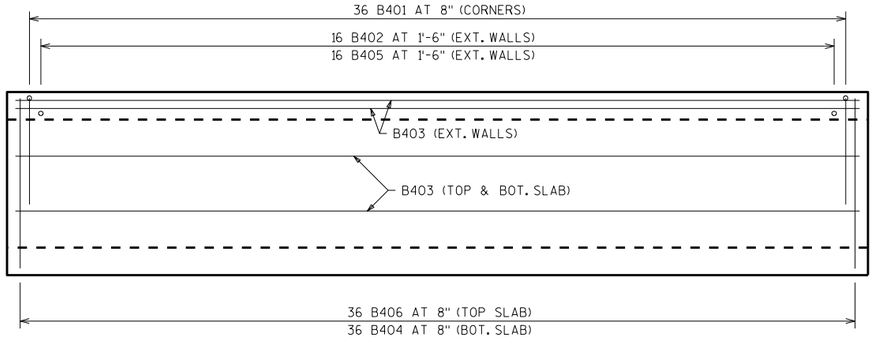
SCALE = 4

I.D. 1650-06-03D

DATE: NOV. 2016

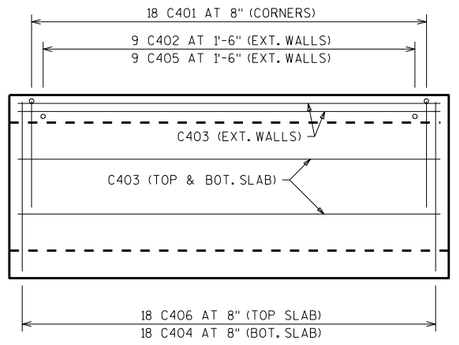
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



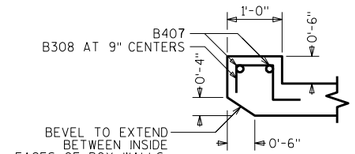
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

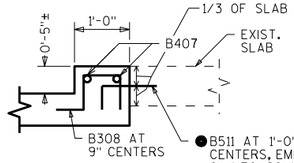
BILL OF BARS

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.

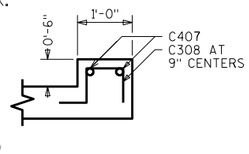
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	144	6-9	2-11	NO	CORNERS
B402	32	1-11	NO	NO	WALLS-DOWELS VERT.
B403	23	23-0	NO	NO	TOP&BOTTOM SLAB & WALL
B404	36	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	32	5-7	NO	NO	WALLS VERT.
B406	36	4-8	NO	NO	TOP SLAB TRANS.
B407	4	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-3	YES	NO	HEADER STIRRUPS VERT.
B309	7	2-5	YES	NO	HEADER STIRRUPS VERT. - CONST. JT.
● B510	12	2-6	NO	NO	VERT. CONST. JOINT - EXT. WALLS
● B511	5	1-9	YES	NO	VERT. CONST. JOINT - TOP SLAB
C401	72	7-0	2-11	NO	CORNERS
C402	18	1-11	NO	NO	WALLS-DOWELS VERT.
C403	25	11-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	18	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	18	6-1	NO	NO	WALLS VERT.
C406	18	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-7	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



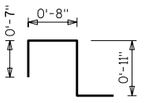
SECTION THRU TOP HEADER AT INLET



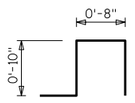
SECTION THRU HEADER AT CONST. JOINT



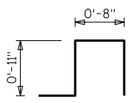
SECTION THRU TOP HEADER AT OUTLET



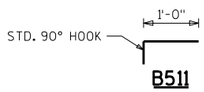
B308



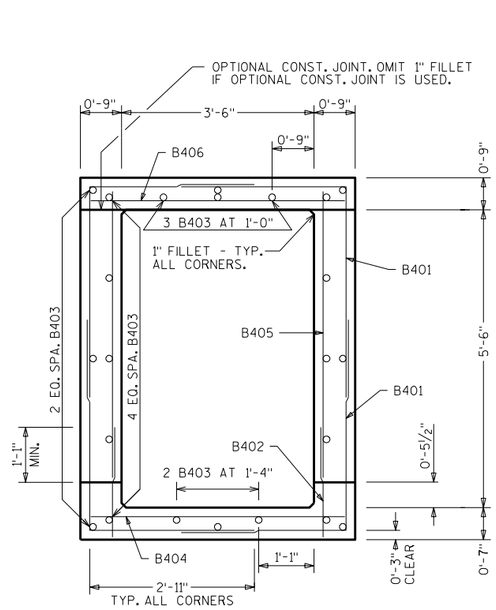
B309



C308

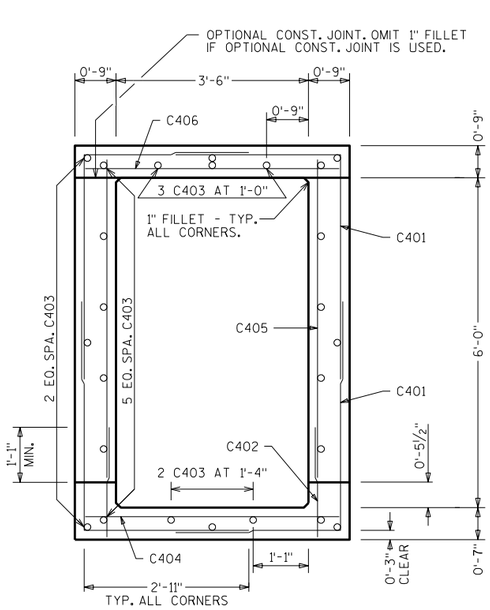


B511



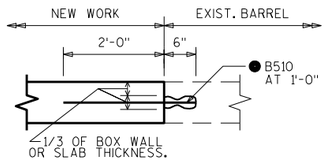
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET EXTENSION

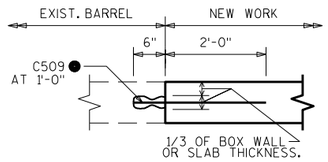
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



INLET VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND BOT. SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND BOT. SLAB).



OUTLET VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1763

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

225

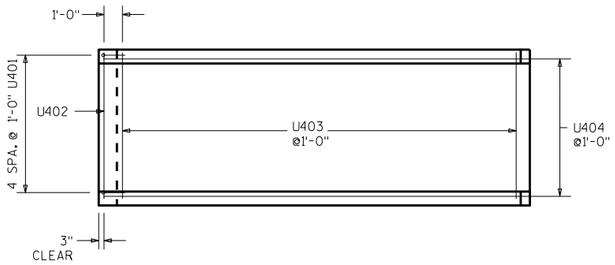
SCALE = 4

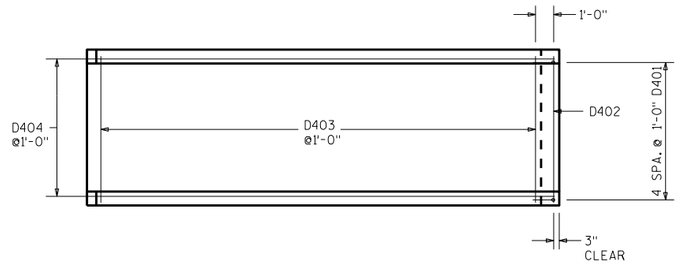
8

8

STATE PROJECT NUMBER

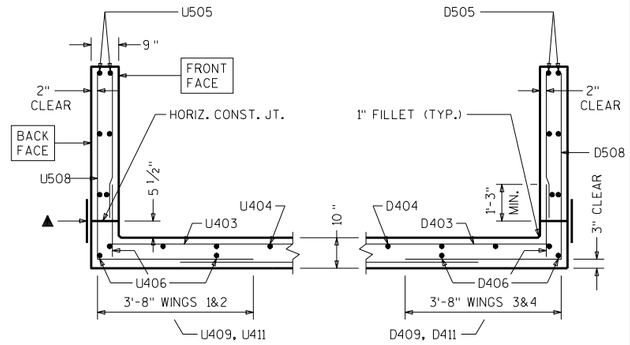
1650-06-73





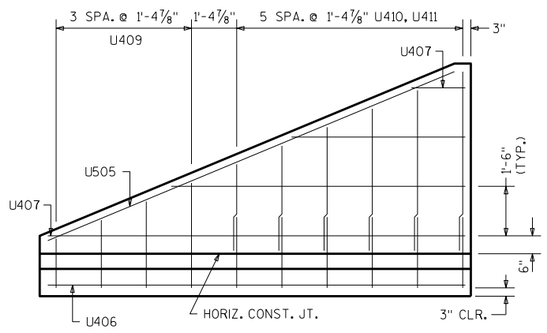
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



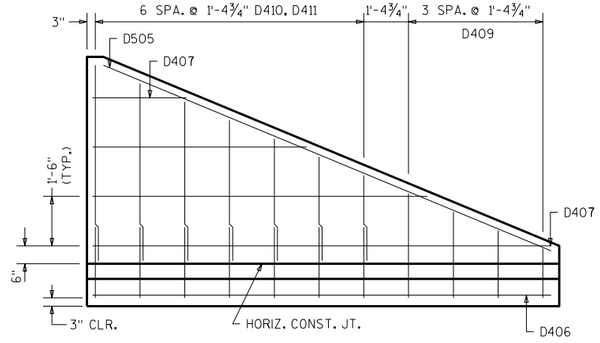
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



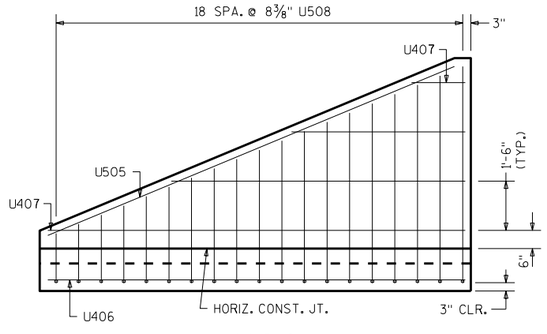
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



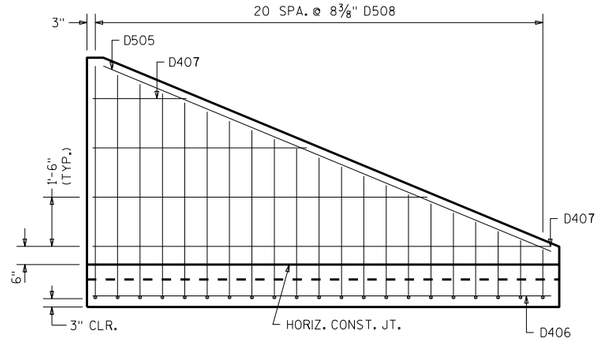
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



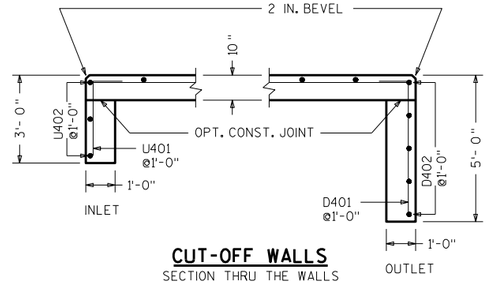
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



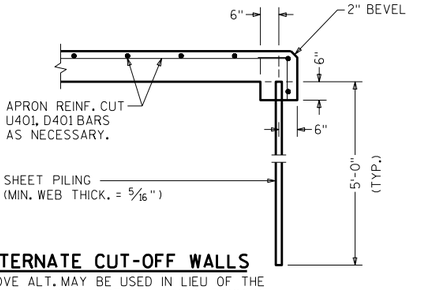
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1763

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

226

8

8

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

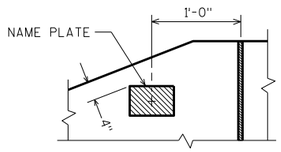
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		12	4 - 8			" APRON
U404		5	15 - 2			" APRON
U505	X	4	13 - 7			WINGS 1&2 -HORIZONTAL -BOTH FACES
U406	X	3	12 - 9			WINGS " -HORIZONTAL -APRON BOT. SLAB
U407	X	16	7 - 3		*	WINGS " -HORIZONTAL - BOTH FACES
U508	X	38	7 - 7	3 - 8	*	WINGS " -VERTICAL - BACK FACE
U409	X	8	2 - 5		*	WINGS " -VERTICAL - FRONT FACE
U410	X	12	4 - 1		*	WINGS " -VERTICAL - FRONT FACE
U411	X	12	2 - 4			WINGS " -DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		14	4 - 8			" APRON
D404		5	16 - 5			" APRON
D505	X	4	15 - 1			WINGS 3&4 -HORIZONTAL -BOTH FACES
D406	X	3	14 - 0			WINGS " -HORIZONTAL -APRON BOT. SLAB
D407	X	16	8 - 6		*	WINGS " -HORIZONTAL - BOTH FACES
D508	X	42	7 - 10	3 - 8	*	WINGS " -VERTICAL - BACK FACE
D409	X	8	2 - 5		*	WINGS " -VERTICAL - FRONT FACE
D410	X	14	4 - 4		*	WINGS " -VERTICAL - FRONT FACE
D411	X	14	2 - 4			WINGS " -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.

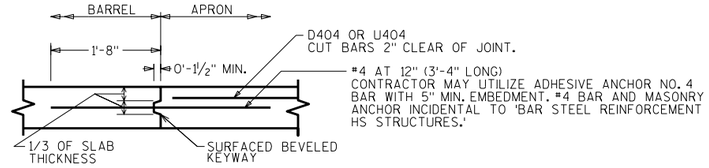
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	1 - 10 TO 12 - 8
U508	2 SERIES OF 19	5 - 0 TO 10 - 3
U409	2 SERIES OF 4	1 - 6 TO 3 - 3
U410	2 SERIES OF 6	2 - 9 TO 5 - 7
D407	4 SERIES OF 4	3 - 1 TO 13 - 11
D508	2 SERIES OF 21	5 - 0 TO 10 - 8
D409	2 SERIES OF 4	1 - 5 TO 3 - 2
D410	2 SERIES OF 7	2 - 8 TO 6 - 1



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.

CORNER 1 CORNER 3 CORNER 2 CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1763

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

227

SCALE = 4

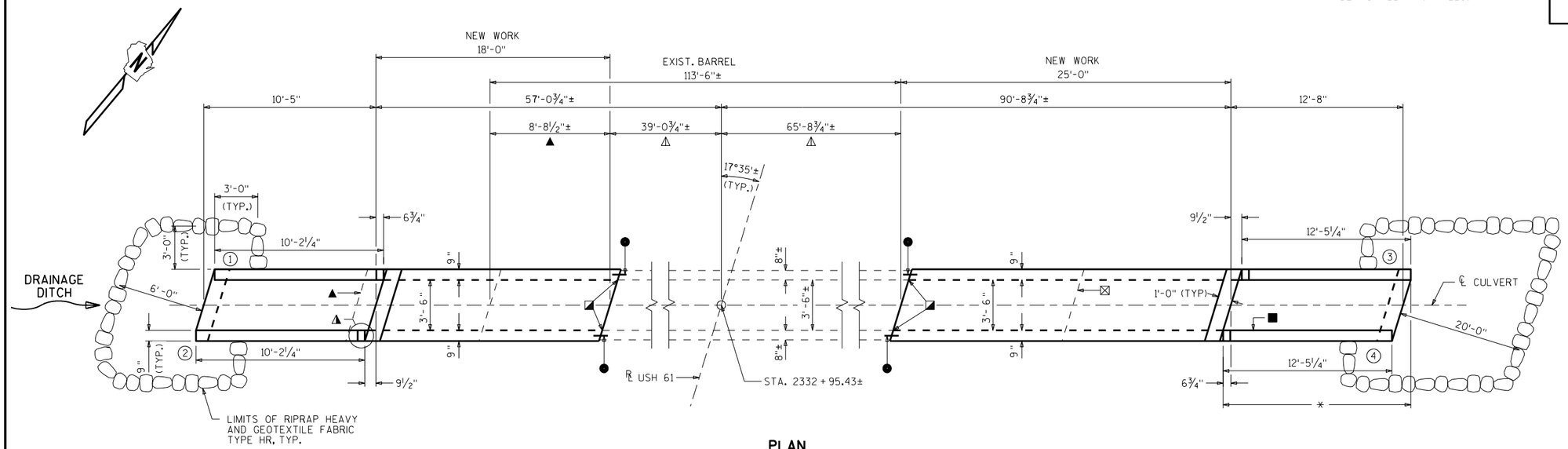
8

8

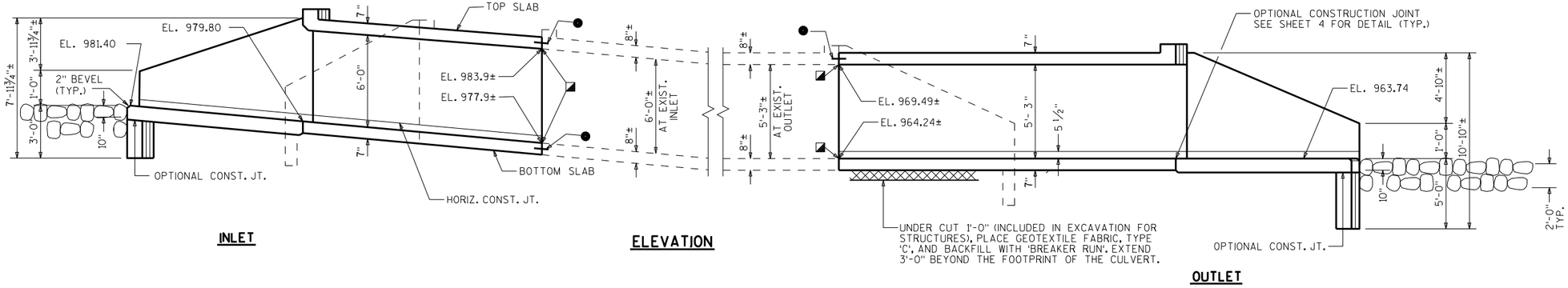
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

▲ SEE CORNER DETAILS SHEET 4
■ NAME PLATE LOCATION (SEE SHT 4)
△ EXIST. BARREL TO REMAIN IN PLACE
▲ REMOVE EXISTING CULVERT EXTENSION, APRON, AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK.
* BUILD APRON AND END OF BOX LEVEL
◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK.
○ INDICATES WING NUMBER
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS & TOP SLAB, AND BOT. SLAB AT INLET).



PLAN



INLET

ELEVATION

OUTLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 18 FT. OF FILL.

MATERIAL PROPERTIES
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2332+95.43	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1764	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	534	TON
311.0115	BREAKER RUN	27	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	31	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	3370	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	860	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	18	SY
606.0300	RIPRAP HEAVY	30	CY
645.0105	GEOTEXTILE TYPE C	96	SY
645.0120	GEOTEXTILE TYPE HR	63	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1764" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1764

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	NORTH LANCASTER

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	MWB	DESIGN CK'D.	DFD	DRAWN BY	MWB	PLANS CK'D.	DFD

LAYOUT

SHEET 1 OF 4

228

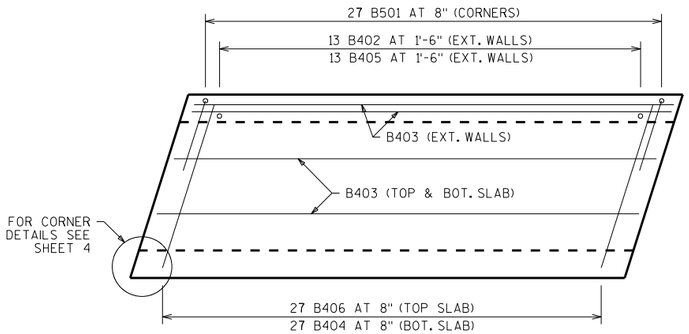
I.D. 1650-06-03P

DATE: NOV. 2016

SCALE = 4.0

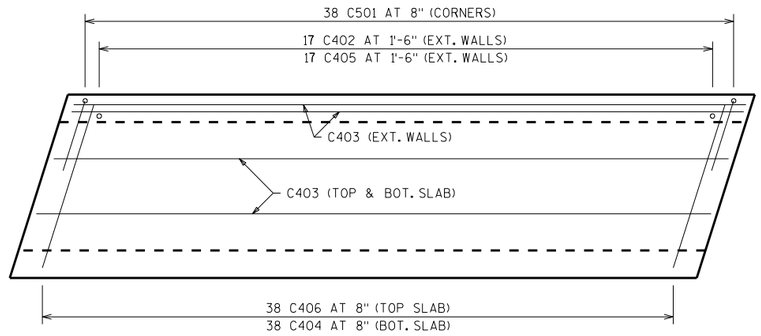
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET PANEL

APRON AND HEADER ARE NOT SHOWN.



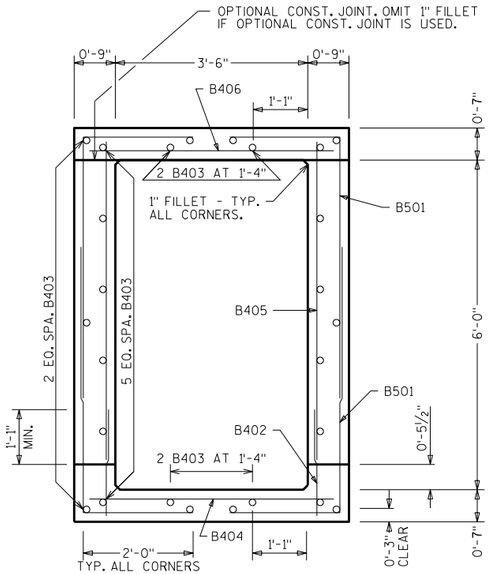
PLAN VIEW OF OUTLET PANEL

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

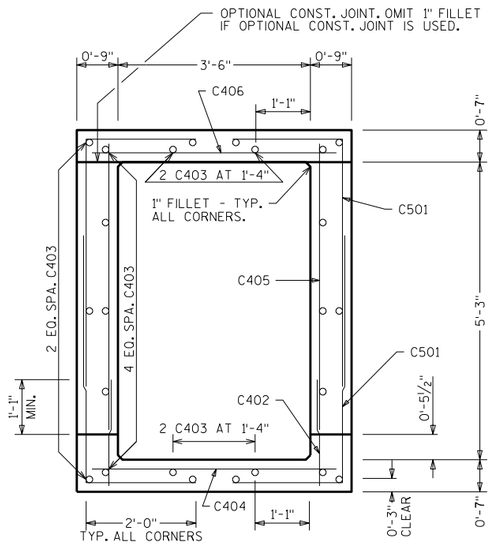
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501	108	6-2	2-0	NO	CORNERS
B402	26	1-11	NO	NO	WALLS-DOWELS VERT.
B403	26	17-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	27	4-10	NO	NO	BOTTOM SLAB TRANS.
B405	26	5-11	NO	NO	WALLS VERT.
B406	27	4-10	NO	NO	TOP SLAB TRANS.
B407	2	4-10	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	20	2-6	NO	NO	VERT. CONST. JOINTS
C501	152	5-10	2-0	NO	CORNERS
C402	34	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	24-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	38	4-10	NO	NO	BOTTOM SLAB TRANS.
C405	34	5-2	NO	NO	WALLS VERT.
C406	38	4-10	NO	NO	TOP SLAB TRANS.
C407	2	4-10	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	14	2-6	NO	NO	VERT. CONST. JOINTS



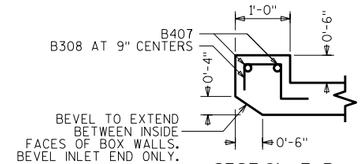
TYPICAL SECTION THRU INLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

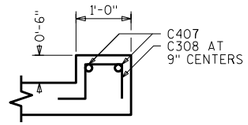


TYPICAL SECTION THRU OUTLET PANEL

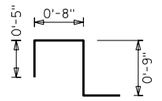
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



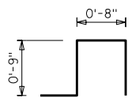
SECTION THRU TOP HEADER AT INLET



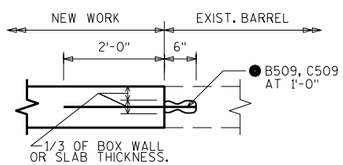
SECTION THRU TOP HEADER AT OUTLET



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS & TOP SLAB, AND BOT. SLAB AT INLET

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS & TOP SLAB, AND BOT SLAB AT INLET).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1764

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

229

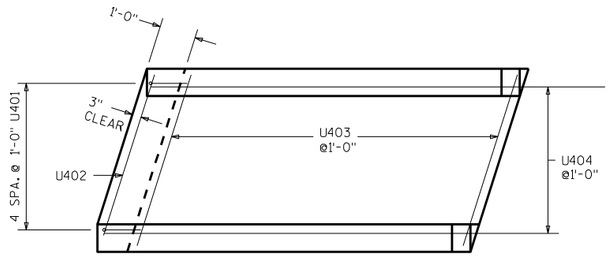
SCALE = 4

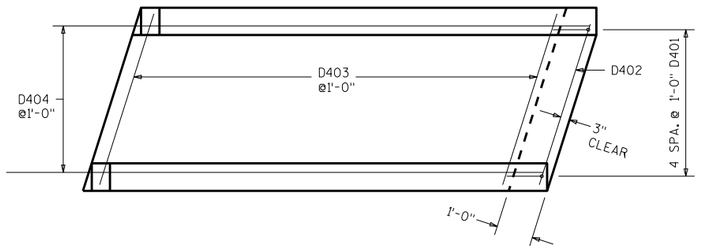
8

8

STATE PROJECT NUMBER

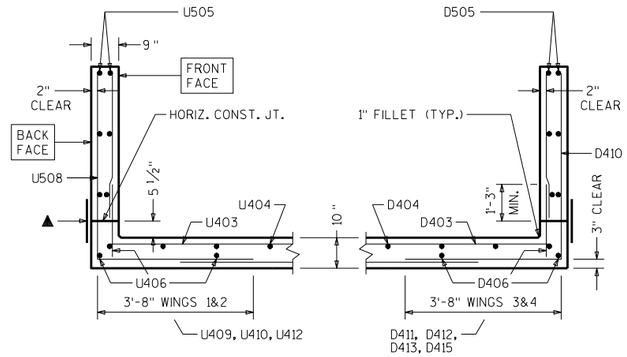
1650-06-73





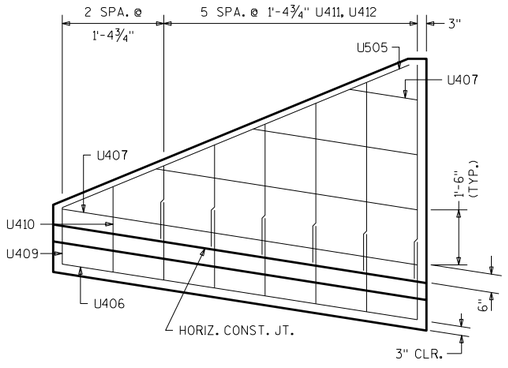
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



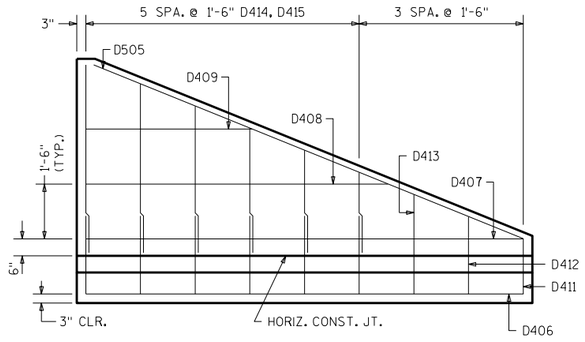
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



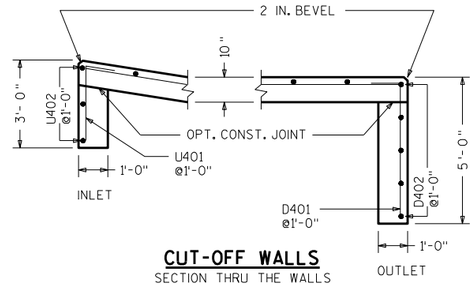
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



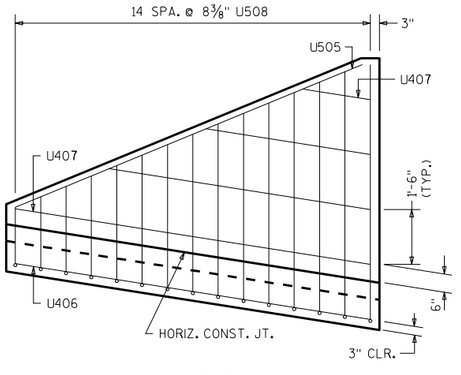
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



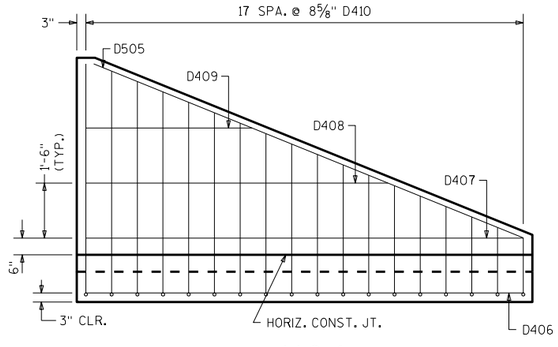
CUT-OFF WALLS

SECTION THRU THE WALLS



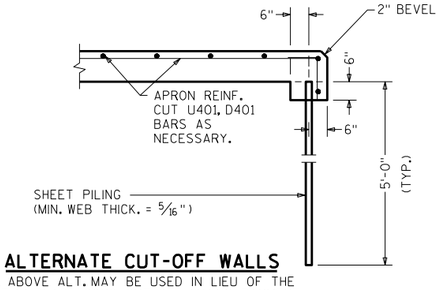
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1764

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

230

SCALE = 4

8

8

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

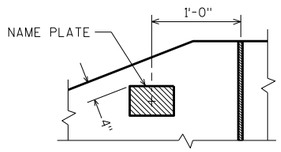
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 7			INLET APRON AND CUTOFF WALL
U403		10	4 - 10			" APRON
U404		5	12 - 7			" APRON
U505	X	4	10 - 6			WINGS 1&2 -HORIZONTAL -BOTH FACES
U406	X	3	9 - 11			WINGS " -HORIZONTAL -APRON BOTT. SLAB
U407	X	16	5 - 11		*	WINGS " -HORIZONTAL - BOTH FACES
U508	X	30	9 - 2	3 - 8	*	WINGS " -VERTICAL - BACK FACE
U409	X	2	1 - 7			WINGS " -VERTICAL - FRONT FACE
U410	X	2	2 - 4			WINGS " -VERTICAL - FRONT FACE
U411	X	12	3 - 11		*	WINGS " -VERTICAL - FRONT FACE
U412	X	12	2 - 4			WINGS " -DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 7			OUTLET APRON AND CUTOFF WALL
D403		11	4 - 10			" APRON
D404		5	14 - 8			" APRON
D505	X	4	12 - 11			WINGS 3&4 -HORIZONTAL -BOTH FACES
D406	X	3	12 - 1			WINGS " -HORIZONTAL -APRON BOTT. SLAB
D407	X	4	12 - 0			WINGS " -HORIZONTAL - BOTH FACES
D408	X	4	8 - 4			WINGS " -HORIZONTAL - BOTH FACES
D409	X	4	4 - 7			WINGS " -HORIZONTAL - BOTH FACES
D410	X	36	8 - 0	3 - 8	*	WINGS " -VERTICAL - BACK FACE
D411	X	2	1 - 5			WINGS " -VERTICAL - FRONT FACE
D412	X	2	2 - 1			WINGS " -VERTICAL - FRONT FACE
D413	X	2	2 - 8			WINGS " -VERTICAL - FRONT FACE
D414	X	12	3 - 8		*	WINGS " -VERTICAL - FRONT FACE
D415	X	12	2 - 4			WINGS " -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.

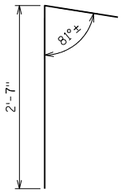
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

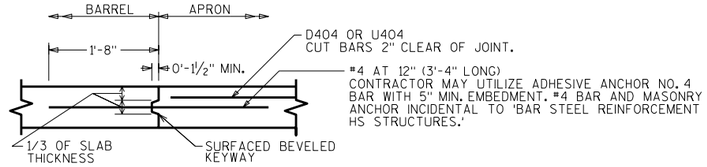
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	1 - 11 TO 9 - 11
U508	2 SERIES OF 15	6 - 5 TO 11 - 11
U411	2 SERIES OF 6	2 - 1 TO 5 - 11
D410	2 SERIES OF 18	5 - 7 TO 10 - 4
D414	2 SERIES OF 6	2 - 1 TO 5 - 0



NAME PLATE LOCATION
WING 4

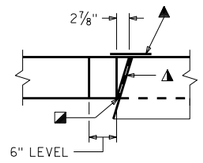


U401

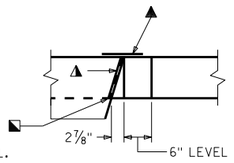


OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1

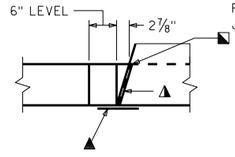


CORNER 3

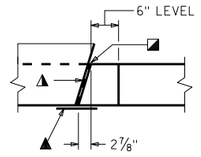
▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.



CORNER 2



CORNER 4

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1764

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

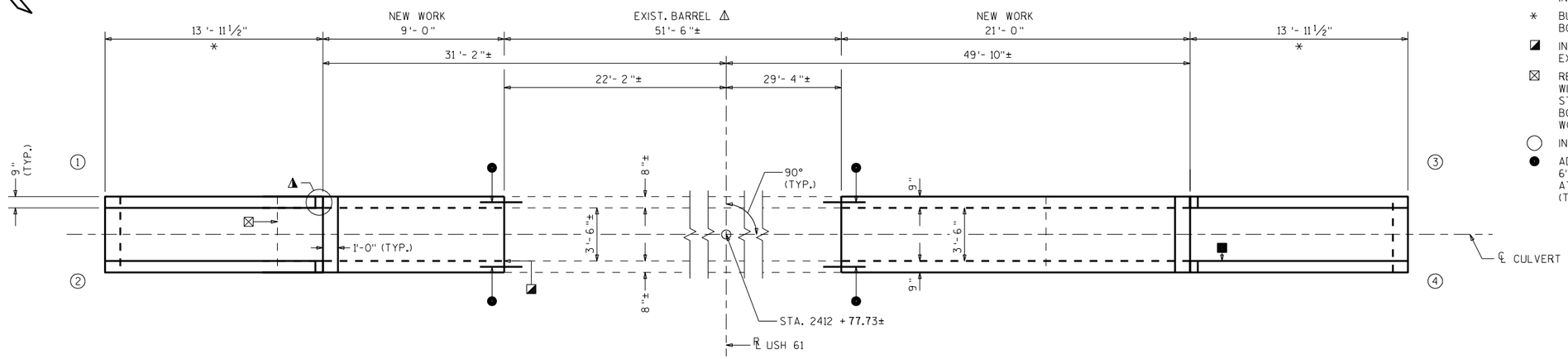
231

SCALE = 4

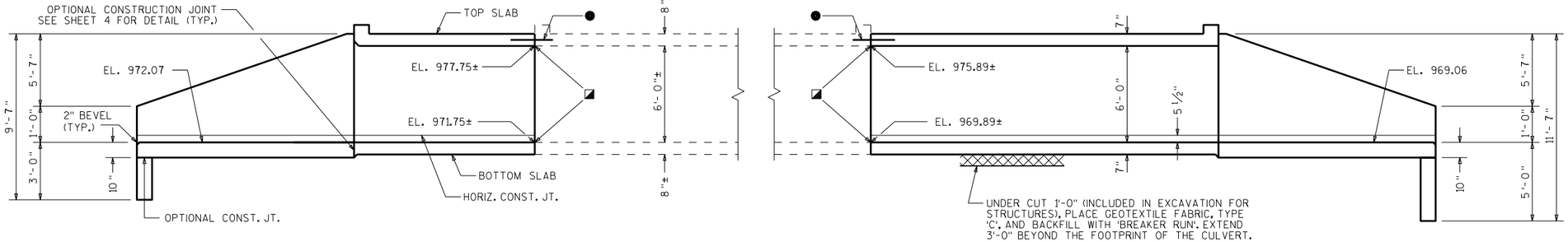
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET **ELEVATION** **OUTLET**

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2412+77.73	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1765	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	484	TON
311.0115	BREAKER RUN	23	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	28	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2220	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	81	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1765" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher, SES 1/26/17
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1765

USH 61 OVER CATTLE PASS

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

232

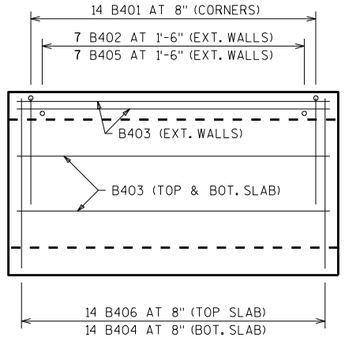
I.D. 1650-06-03L

DATE: JAN. 2017

SCALE = 4

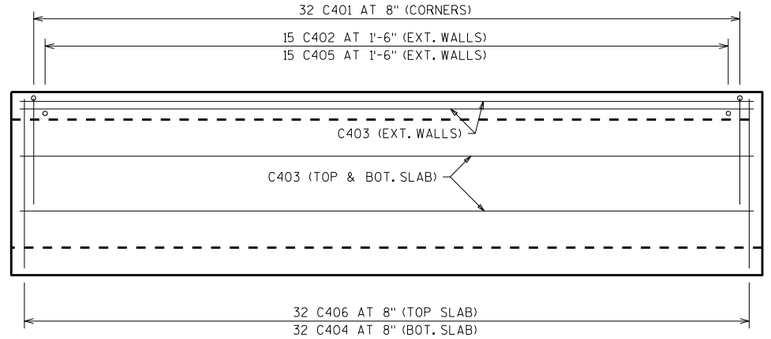
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



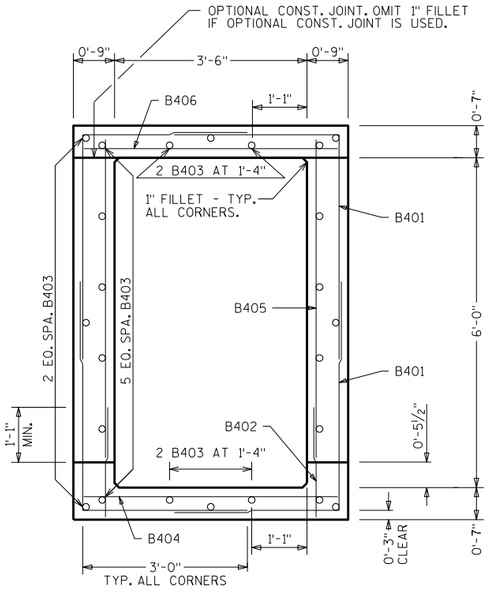
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

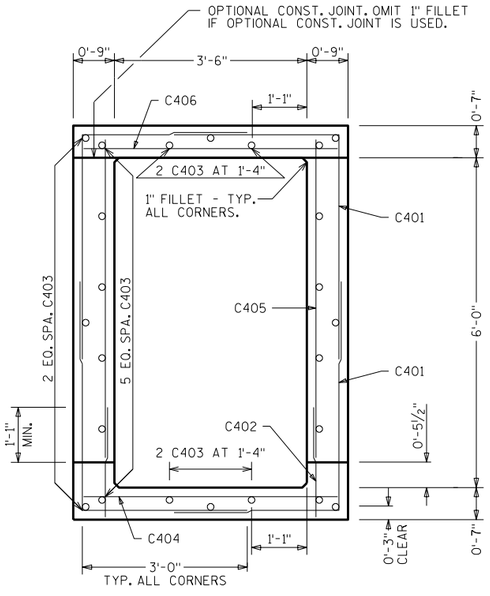
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	56	7-0	3-0	NO	CORNERS
B402	14	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	8-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	14	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	14	5-11	NO	NO	WALLS VERT.
B406	14	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	132	7-0	3-0	NO	CORNERS
C402	30	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	20-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	32	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	30	5-11	NO	NO	WALLS VERT.
C406	32	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



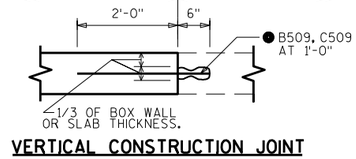
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET EXTENSION

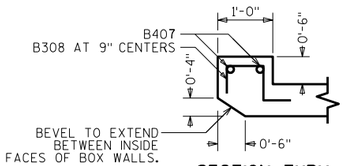
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



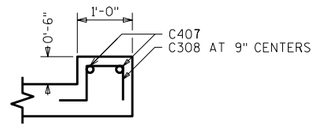
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

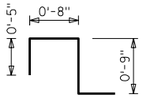
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



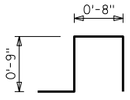
SECTION THRU TOP HEADER AT INLET



SECTION THRU TOP HEADER AT OUTLET



B308



C308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1765

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

233

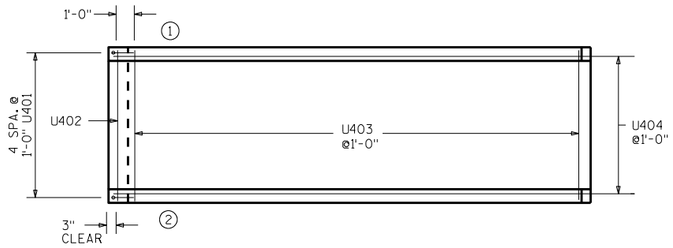
SCALE = 4

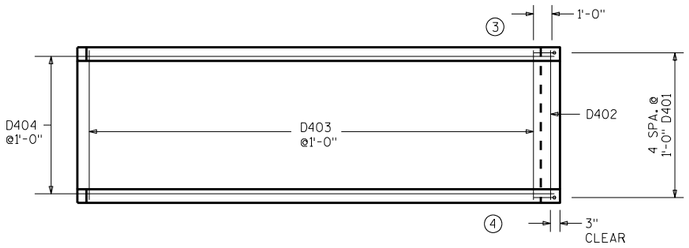
8

8

STATE PROJECT NUMBER

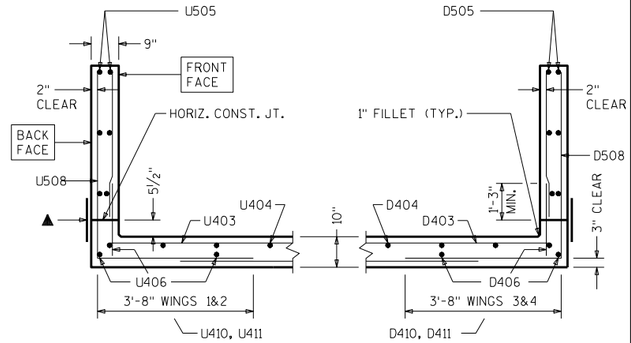
1650-06-73





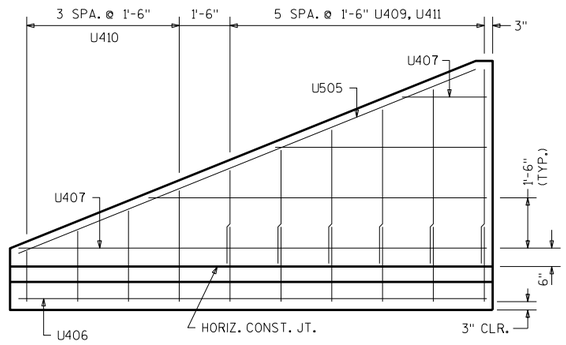
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



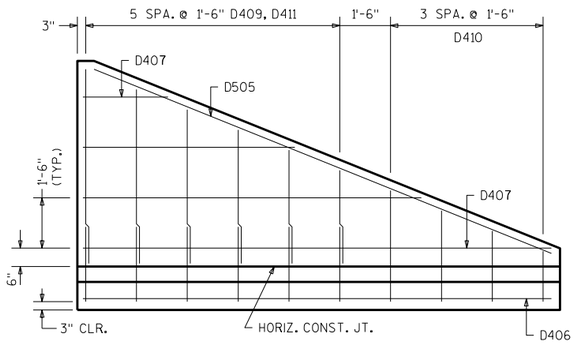
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



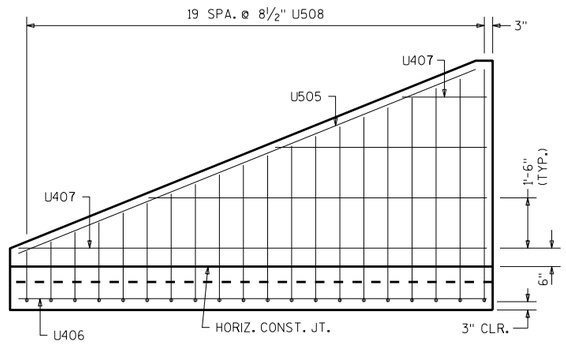
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



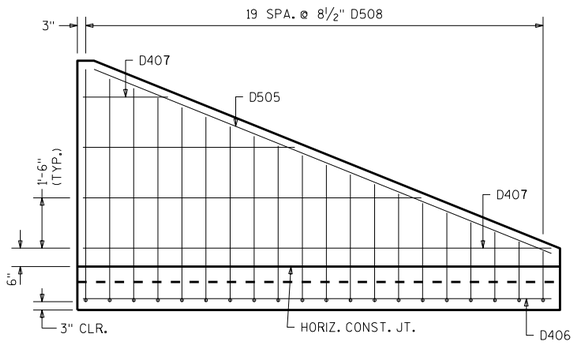
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



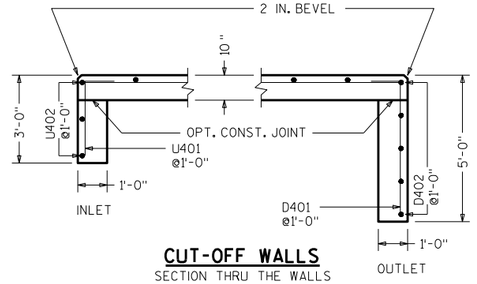
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



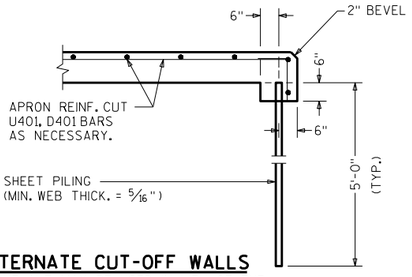
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1765

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

234

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

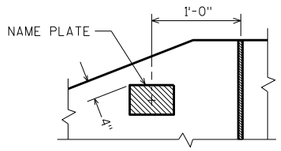
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

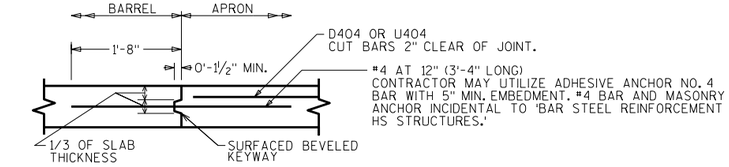
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

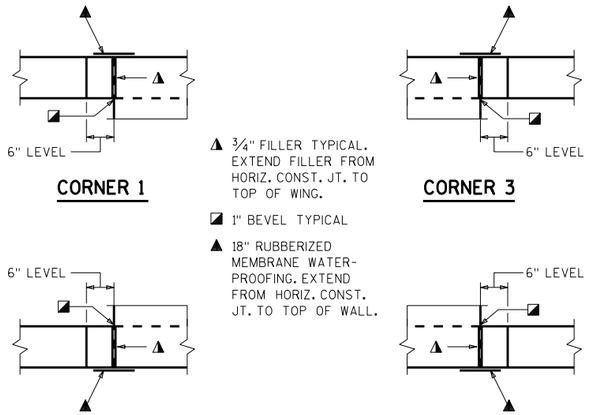


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1
CORNER 3
CORNER 2
CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1765

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

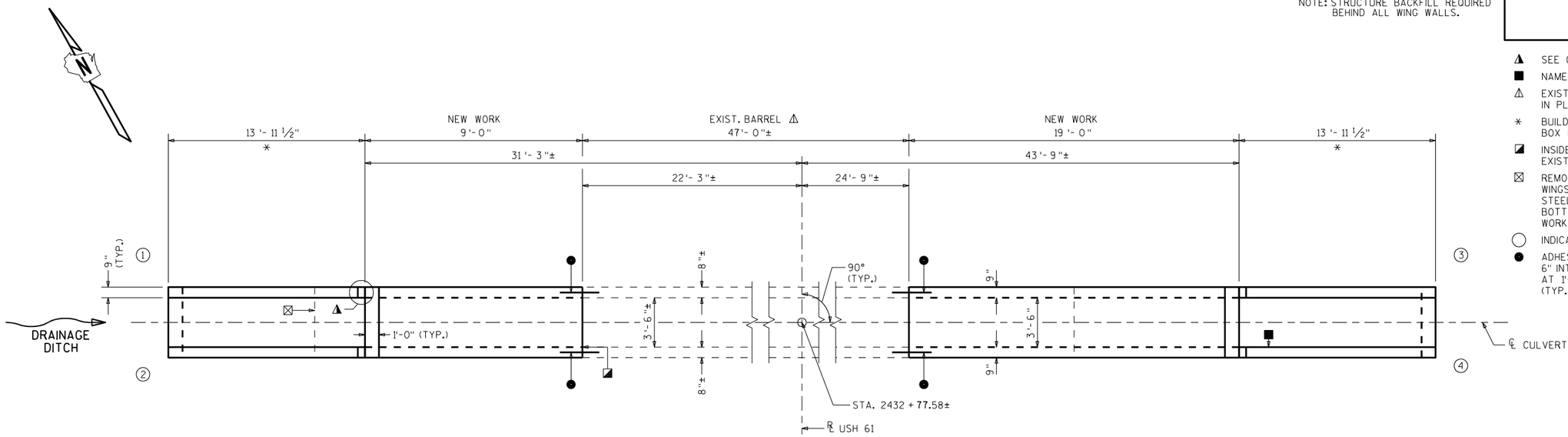
235

SCALE = 4

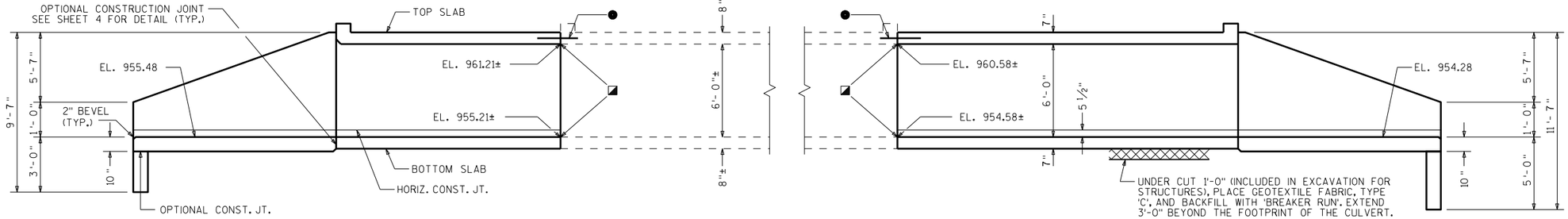
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET

ELEVATION

OUTLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:

MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61

A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2432+77.58	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1766	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	464	TON
311.0115	BREAKER RUN	22	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	28	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2070	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	78	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1766" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1766

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

236

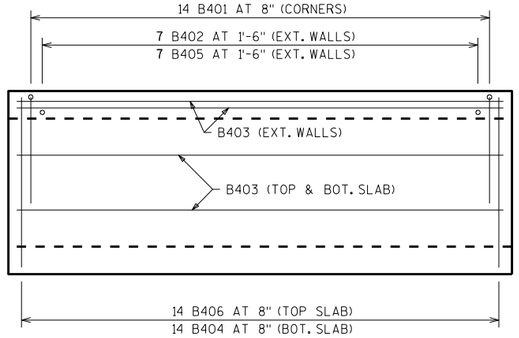
I.D. 1650-06-03E

DATE: NOV. 2016

SCALE = 4

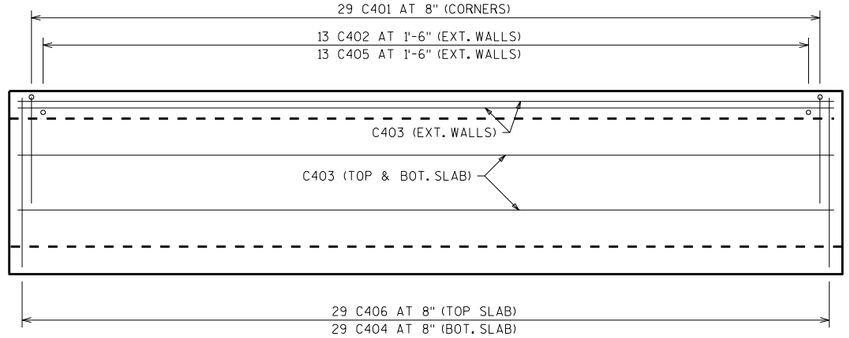
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



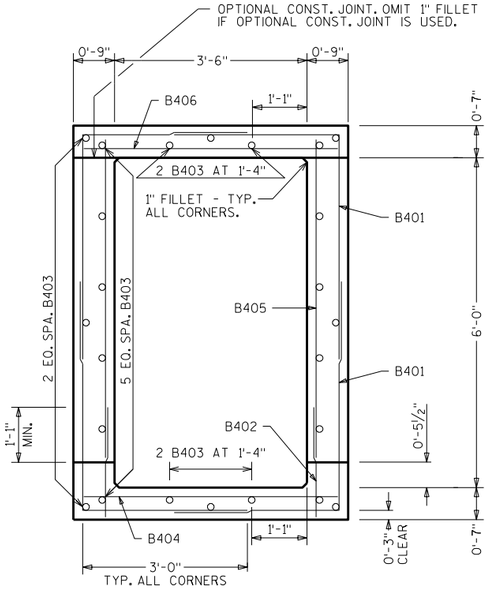
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

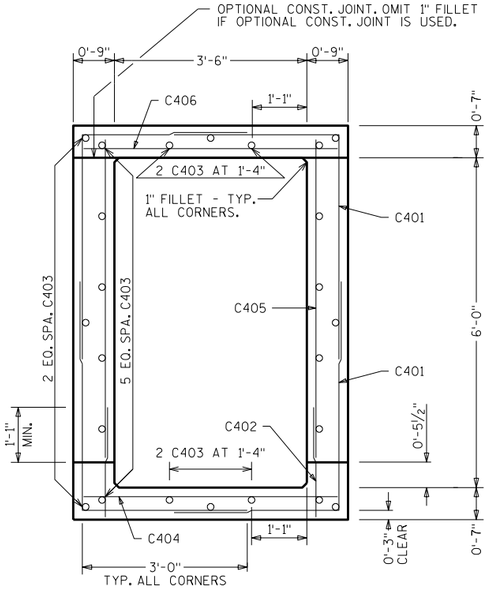
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	56	7-0	3-0	NO	CORNERS
B402	14	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	8-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	14	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	14	5-11	NO	NO	WALLS VERT.
B406	14	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	116	7-0	3-0	NO	CORNERS
C402	26	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	18-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	29	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	26	5-11	NO	NO	WALLS VERT.
C406	29	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



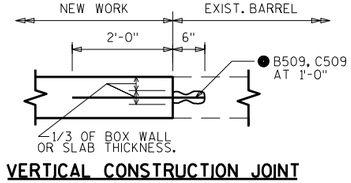
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET EXTENSION

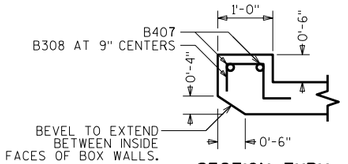
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



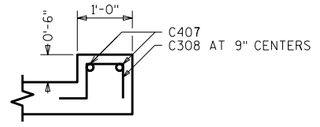
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

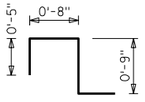
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



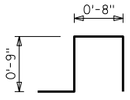
SECTION THRU TOP HEADER AT INLET



SECTION THRU TOP HEADER AT OUTLET



B308



C308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1766

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

237

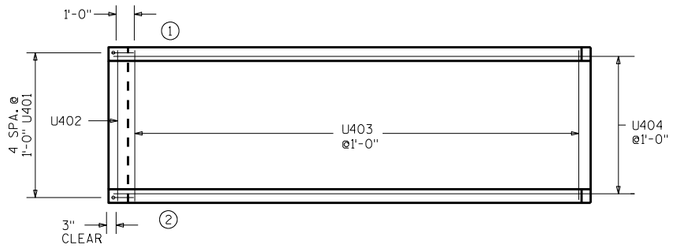
SCALE = 4

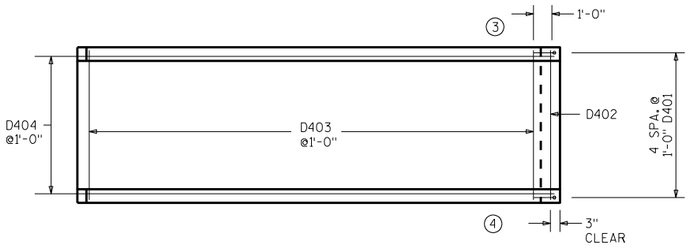
8

8

STATE PROJECT NUMBER

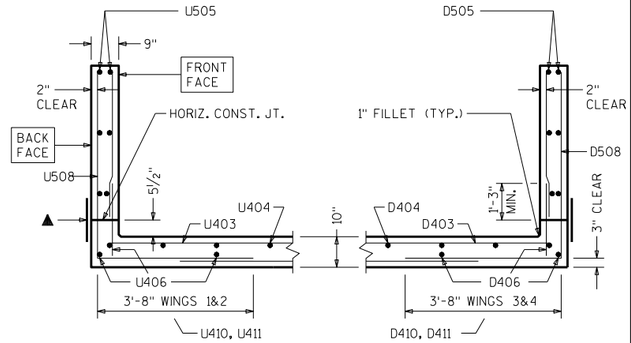
1650-06-73





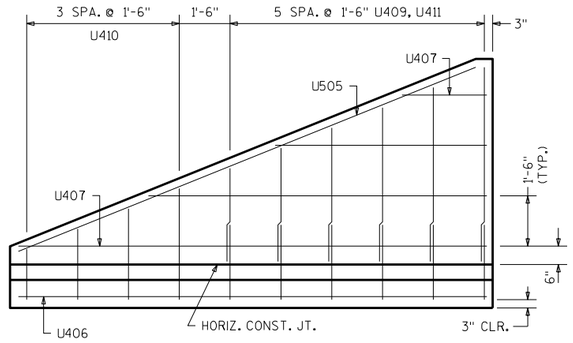
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



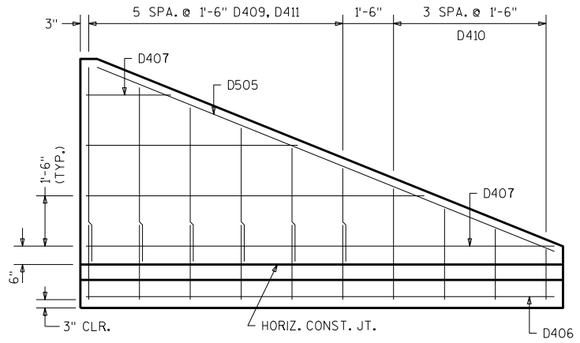
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



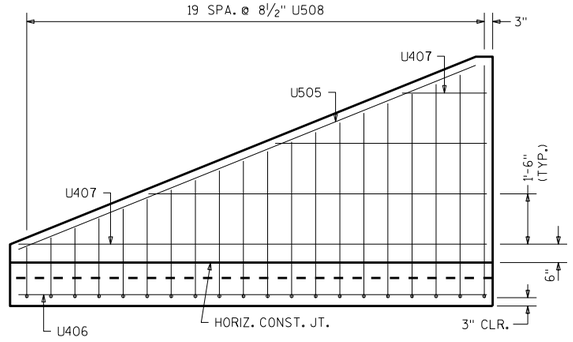
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



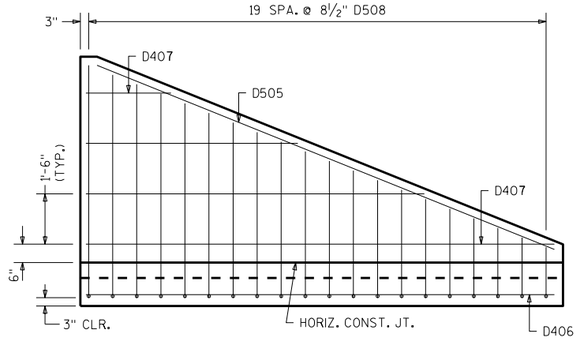
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



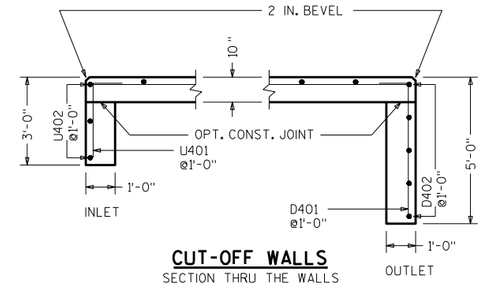
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



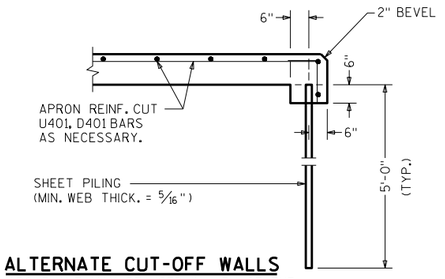
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1766

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

238

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

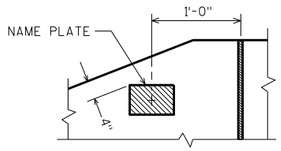
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

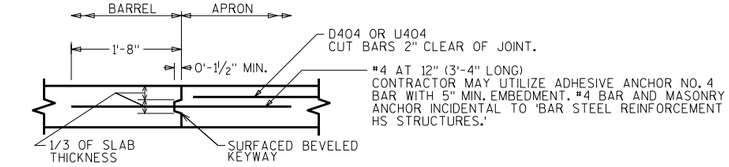
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

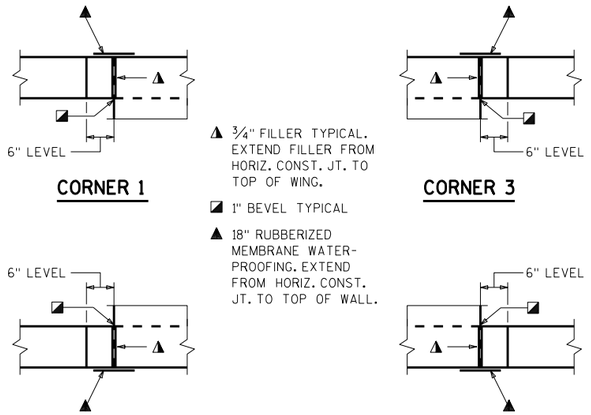


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1
CORNER 3
CORNER 2
CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1766

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

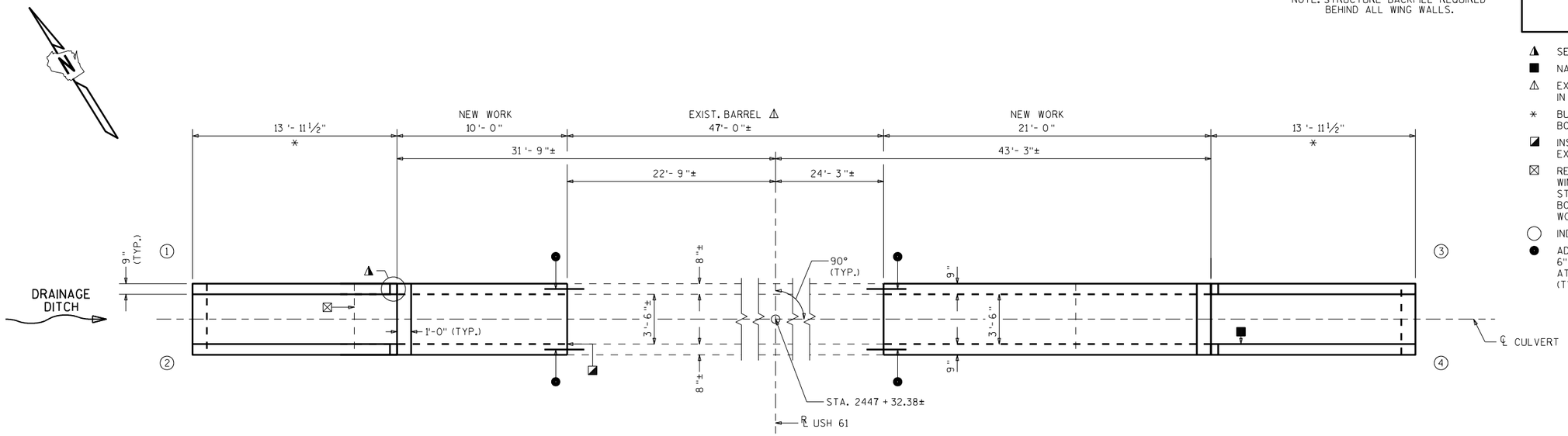
239

SCALE = 4

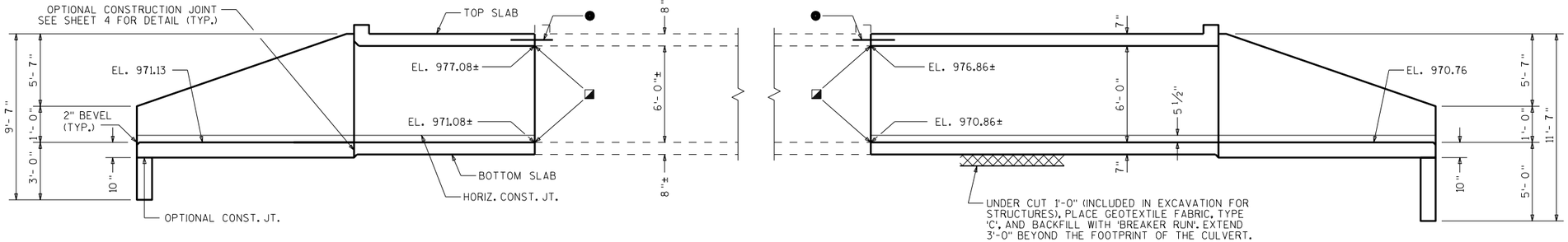
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET

ELEVATION

OUTLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2447+32.38	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1767	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	494	TON
311.0115	BREAKER RUN	23	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	29	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2260	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	83	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1767" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 1/26/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1767

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN ~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	MWB	DESIGN CK'D.	DFD	DRAWN BY	MWB	PLANS CK'D.	DFD

LAYOUT

SHEET 1 OF 4

240

I.D. 1650-06-03F

DATE: JAN. 2017

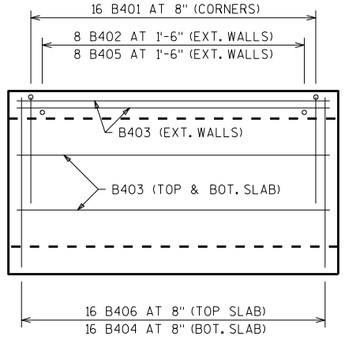
SCALE = 4

8

8

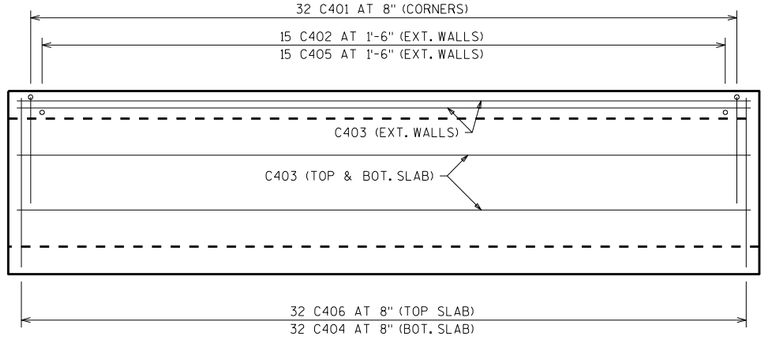
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



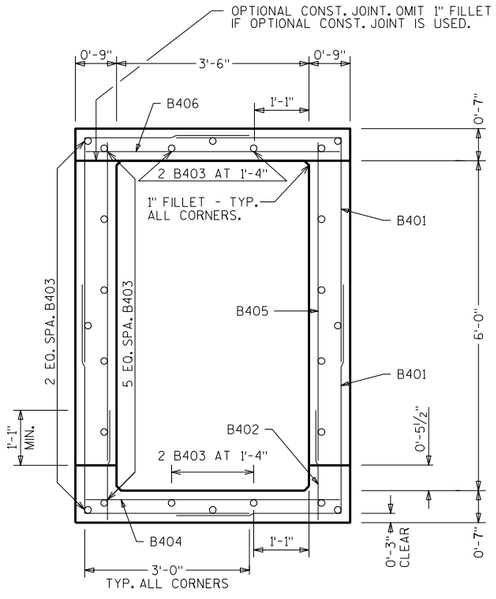
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

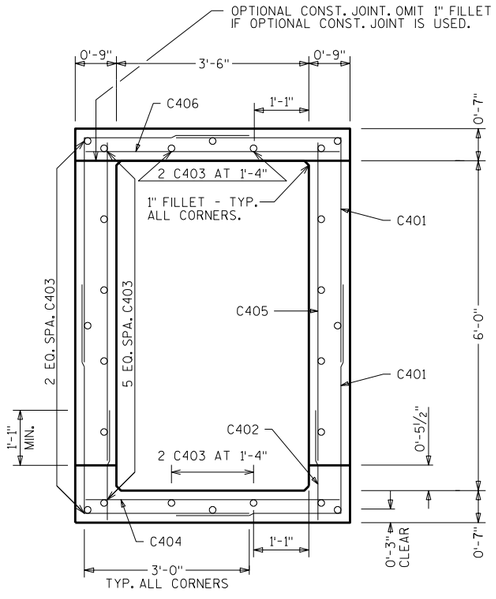
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	64	7-0	3-0	NO	CORNERS
B402	16	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	8-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	16	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	16	5-11	NO	NO	WALLS VERT.
B406	16	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	128	7-0	3-0	NO	CORNERS
C402	30	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	20-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	32	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	30	5-11	NO	NO	WALLS VERT.
C406	32	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



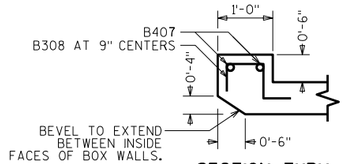
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

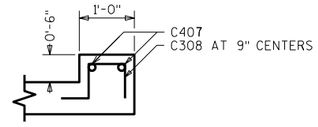


TYPICAL SECTION THRU OUTLET EXTENSION

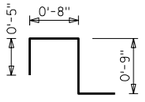
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



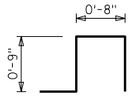
SECTION THRU TOP HEADER AT INLET



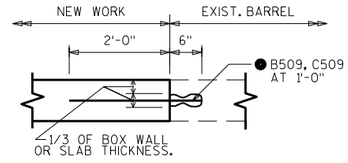
SECTION THRU TOP HEADER AT OUTLET



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1767

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

241

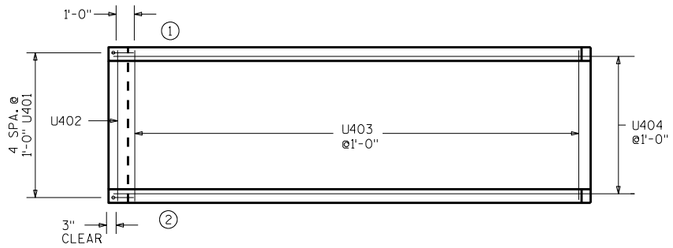
SCALE = 4

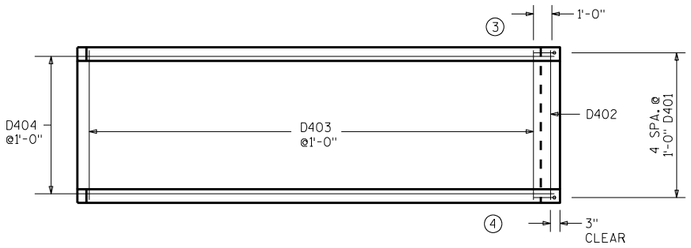
8

8

STATE PROJECT NUMBER

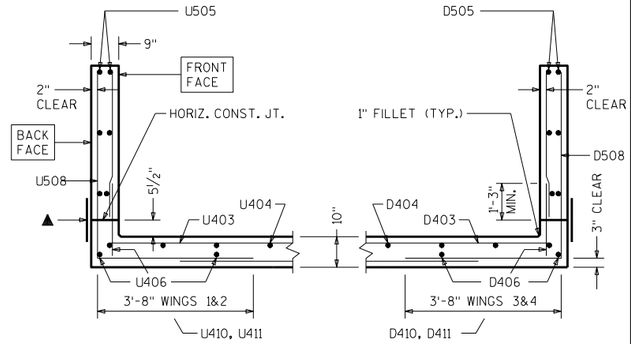
1650-06-73





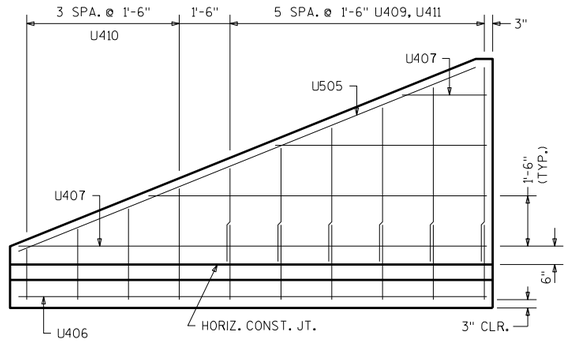
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



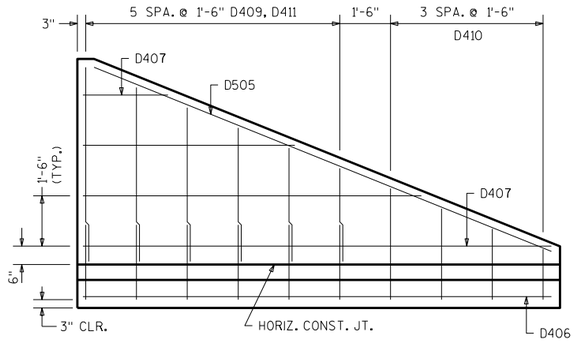
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



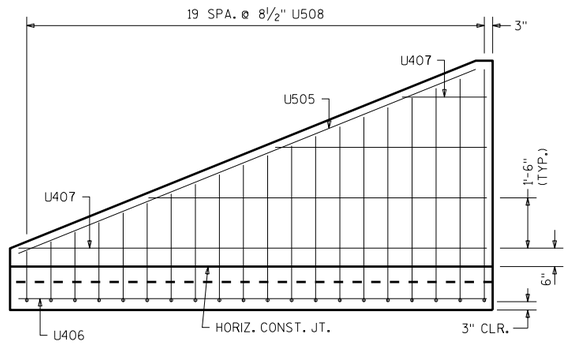
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



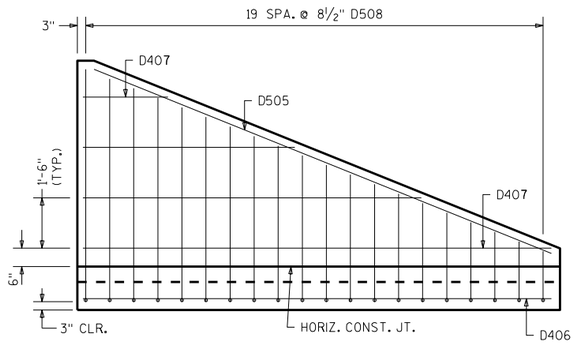
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



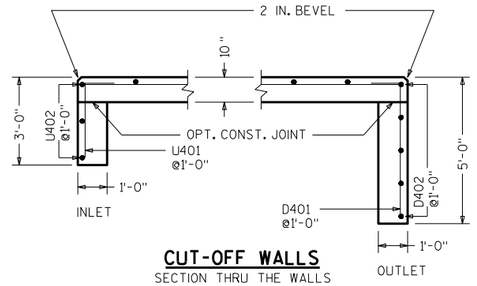
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



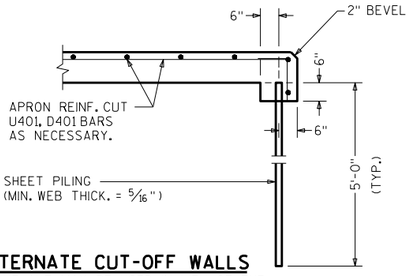
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1767

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

242

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

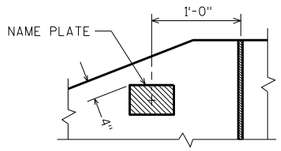
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

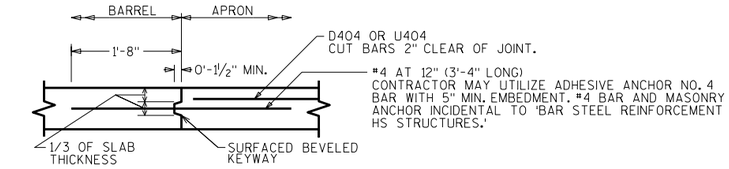
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

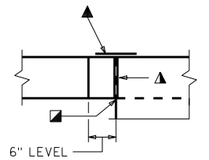


NAME PLATE LOCATION
WING 4

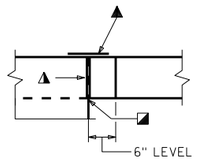


OPTIONAL CONSTRUCTION JOINT

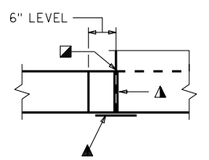
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



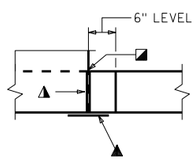
CORNER 1



CORNER 3



CORNER 2



CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1767

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

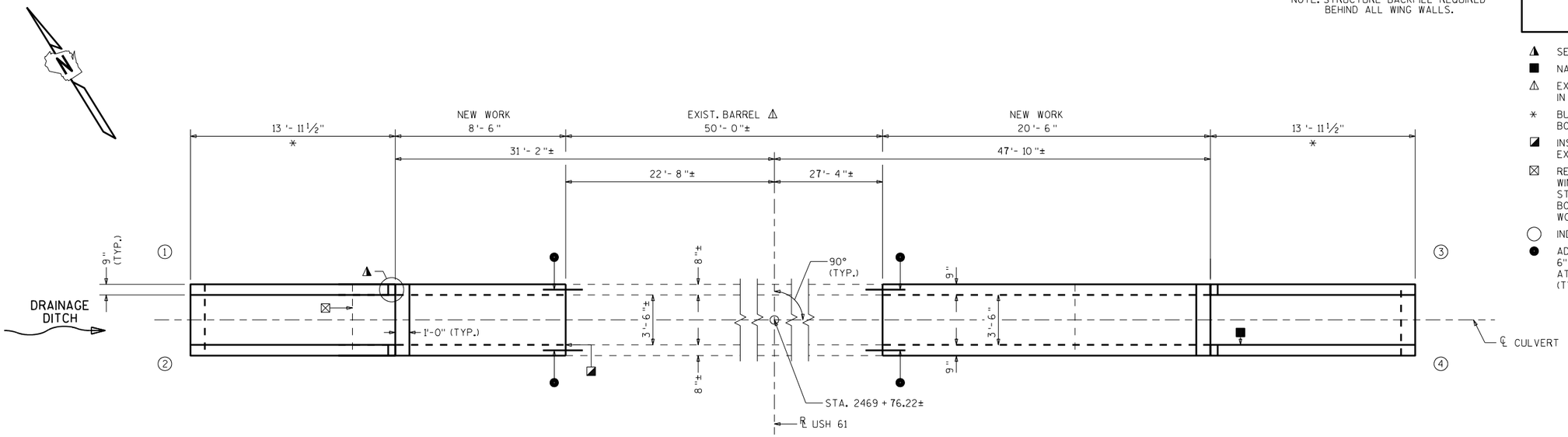
243

SCALE = 4

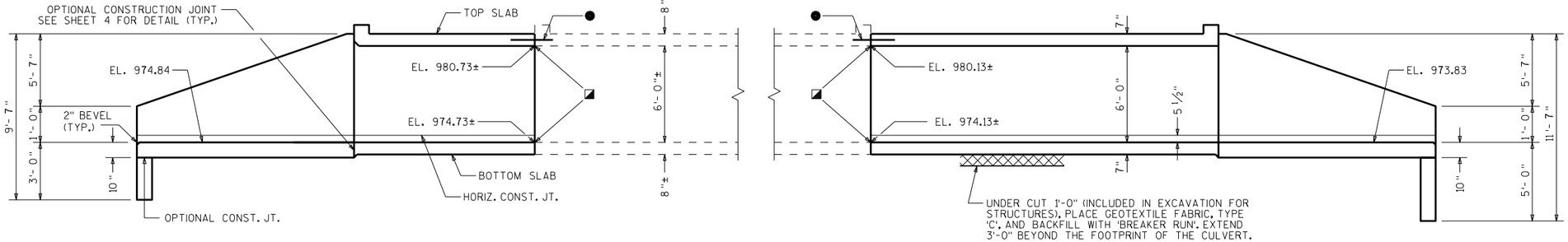
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET **ELEVATION** **OUTLET**

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2469+76.22	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1768	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	474	TON
311.0115	BREAKER RUN	23	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	28	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2150	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	80	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1768" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LLS 1/26/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1768

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN ~~CITY/VILLAGE~~
GRANT	LIBERTY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

244

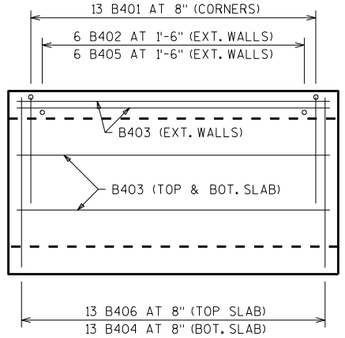
I.D. 1650-06-03G

DATE: JAN. 2017

SCALE = 4

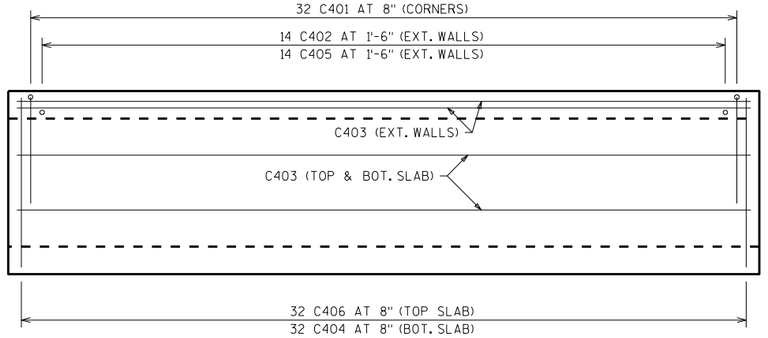
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



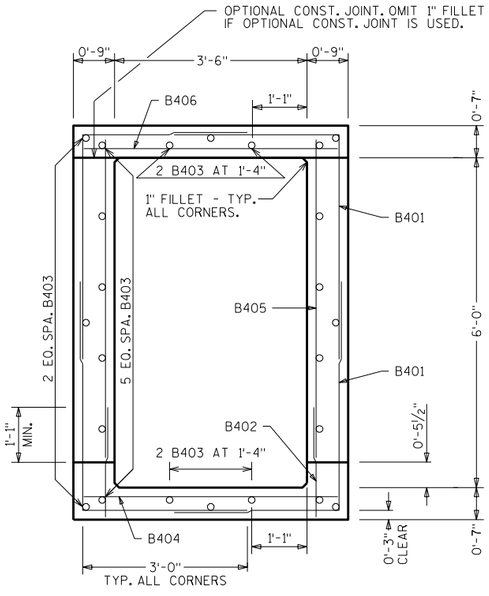
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

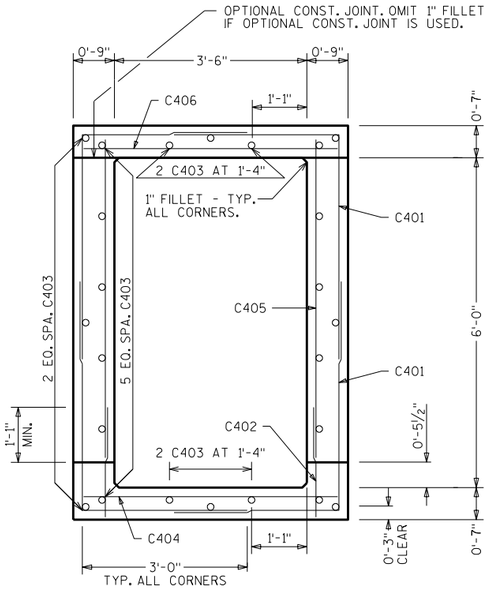
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	52	7-0	3-0	NO	CORNERS
B402	12	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	8-0	NO	NO	TOP&BOTTOM SLAB & WALL
B404	13	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	12	5-11	NO	NO	WALLS VERT.
B406	13	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	128	7-0	3-0	NO	CORNERS
C402	28	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	20-0	NO	NO	TOP&BOTTOM SLAB & WALL
C404	32	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	28	5-11	NO	NO	WALLS VERT.
C406	32	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



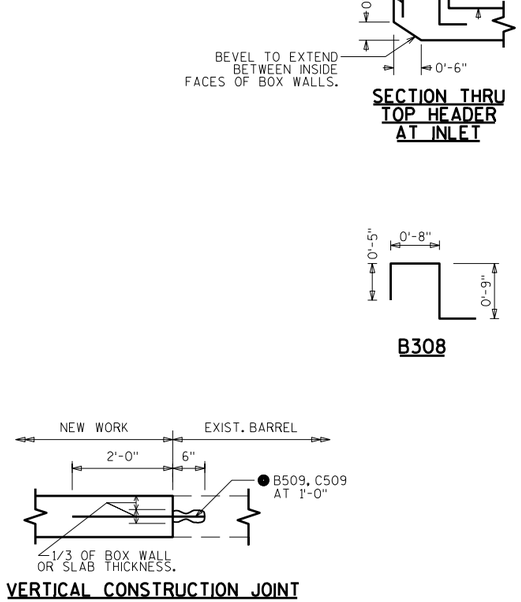
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET EXTENSION

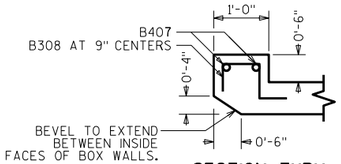
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



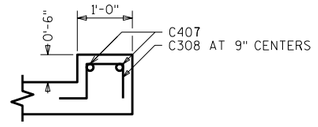
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

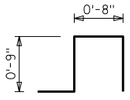


SECTION THRU TOP HEADER AT INLET



SECTION THRU TOP HEADER AT OUTLET

B308



C308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1768

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

245

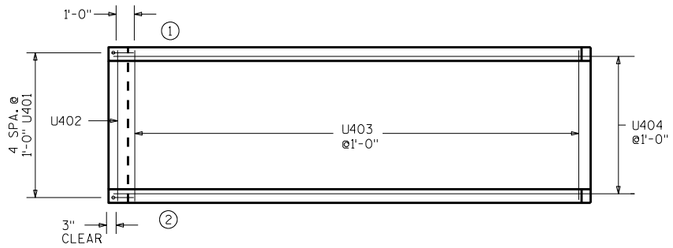
SCALE = 4

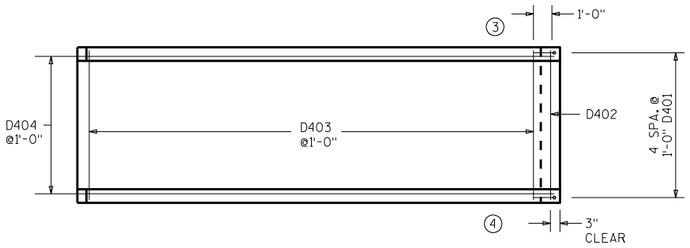
8

8

STATE PROJECT NUMBER

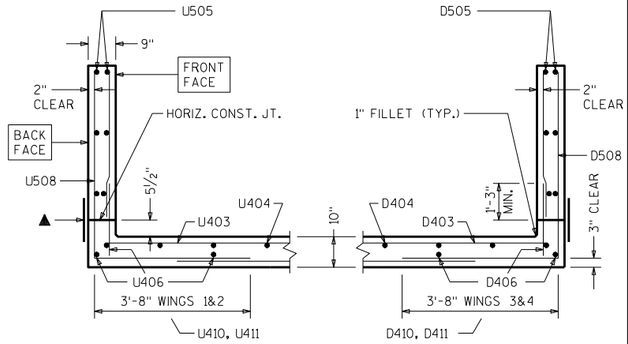
1650-06-73





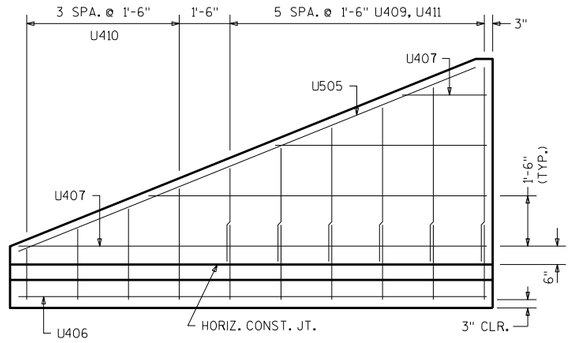
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



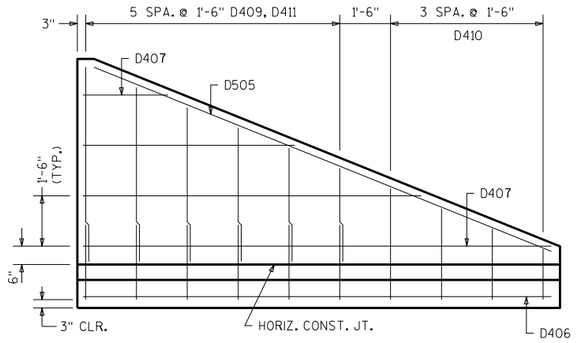
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



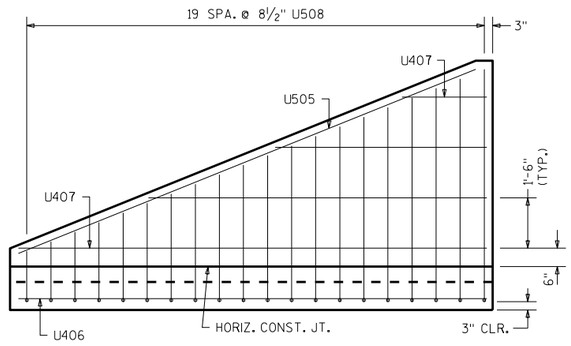
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



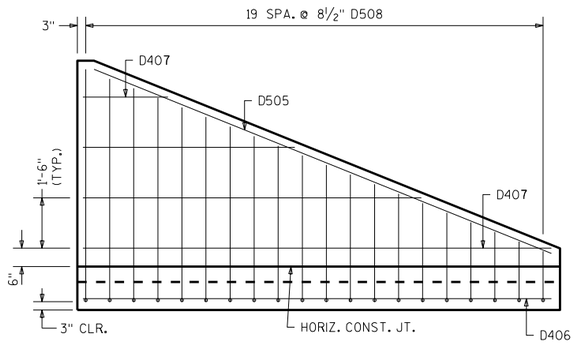
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



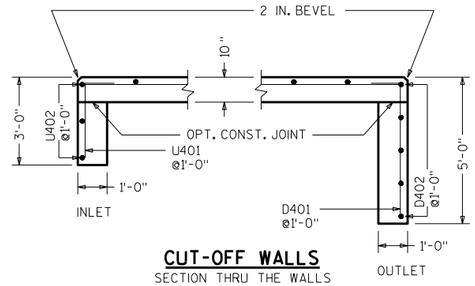
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



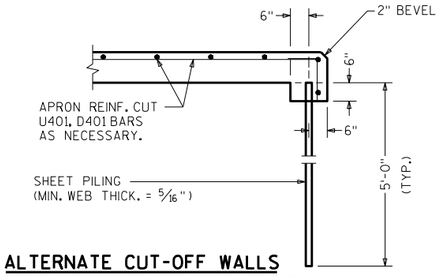
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1768

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

246

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

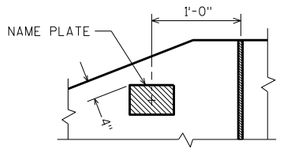
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

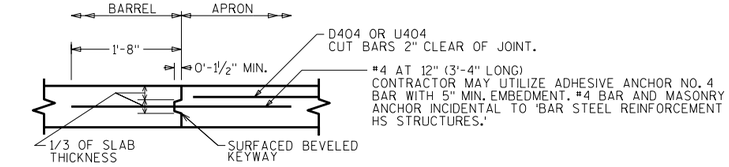
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

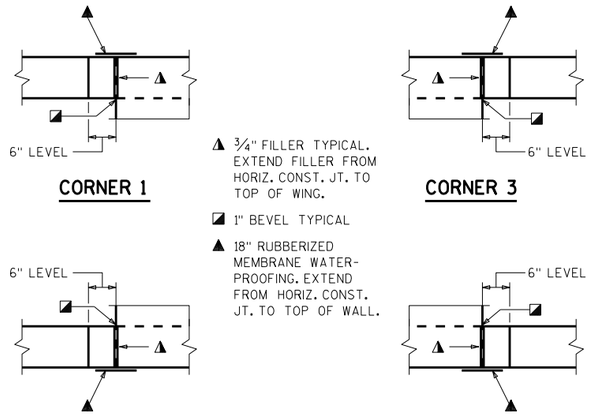


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1
CORNER 3
CORNER 2
CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1768

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

247

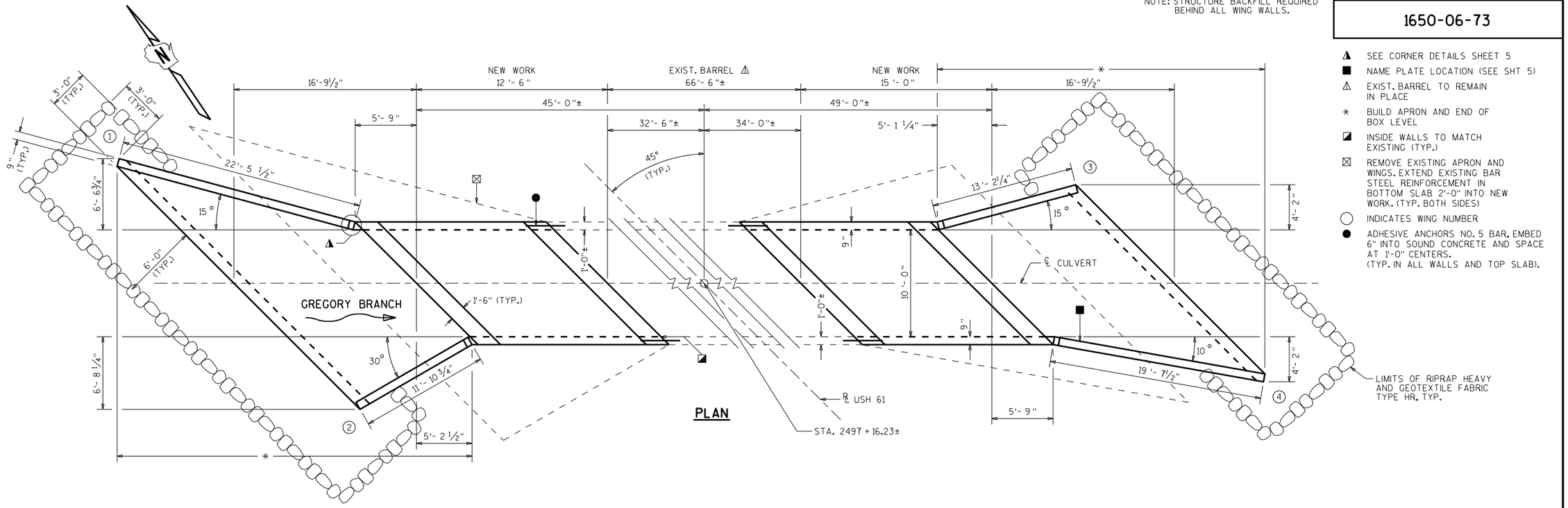
SCALE = 4

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

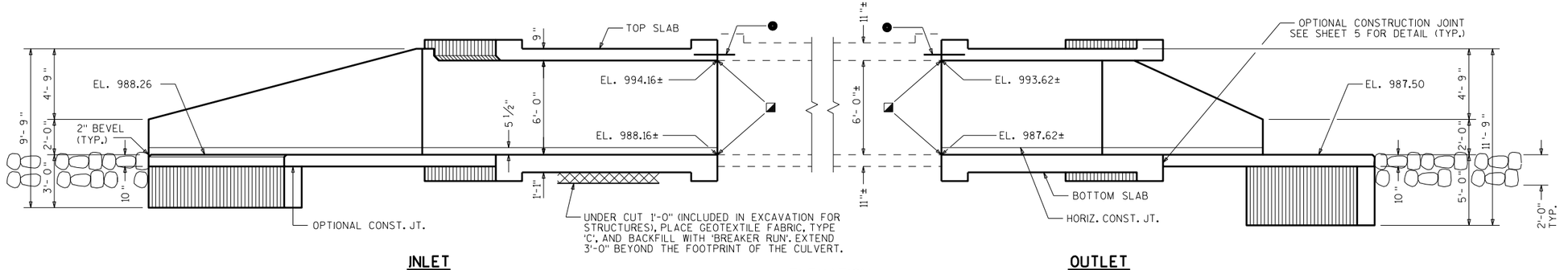
STATE PROJECT NUMBER

1650-06-73

- ◭ SEE CORNER DETAILS SHEET 5
- ■ NAME PLATE LOCATION (SEE SHT 5)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET **ELEVATION** **OUTLET**

LIST OF DRAWINGS

1. LAYOUT
2. INLET DETAILS
3. OUTLET DETAILS
4. APRON DETAILS
5. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 3.0 TO 4.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61

A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2497+16.23	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1769	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	570	TON
311.0115	BREAKER RUN	43	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	56	EACH
504.0100	CONCRETE MASONRY CULVERTS	65	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	7660	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1740	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	27	SY
606.0300	RIPRAP HEAVY	36	CY
645.0105	GEOTEXTILE TYPE C	142	SY
645.0120	GEOTEXTILE TYPE HR	85	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1769" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1769

USH 61 OVER GREGORY BRANCH

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

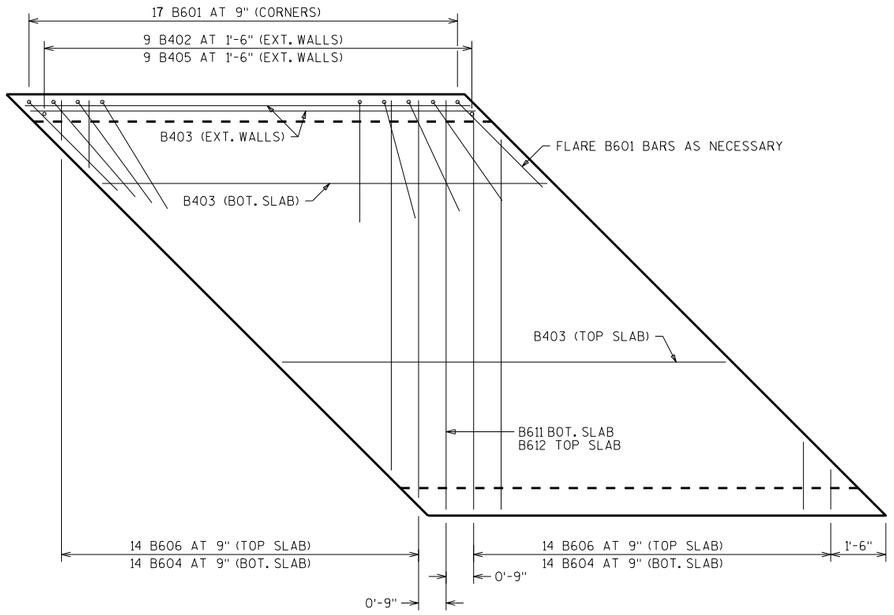
SHEET 1 OF 5

248

I.D. 1650-06-03K

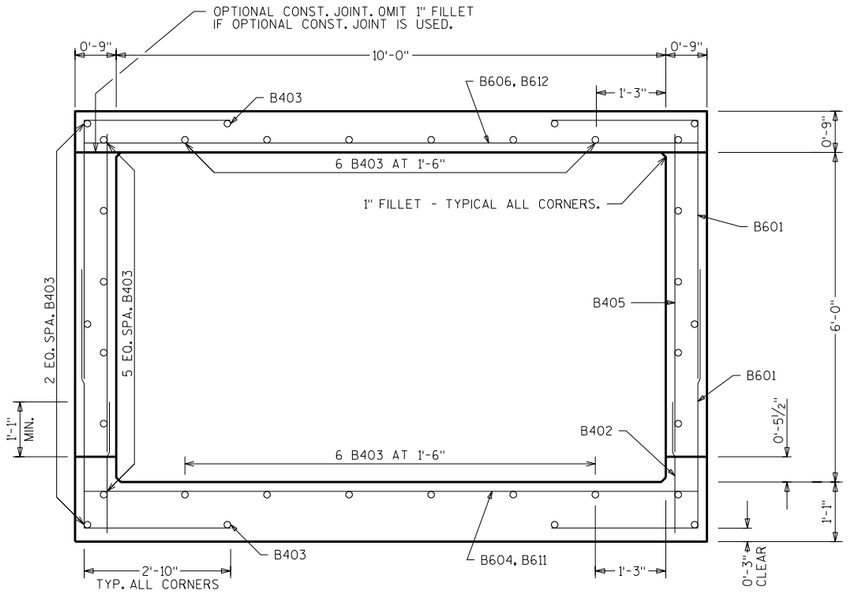
DATE: NOV. 2016

SCALE = 4



PLAN VIEW OF INLET PANEL

APRON AND HEADER ARE NOT SHOWN.



TYPICAL SECTION THRU INLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

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.

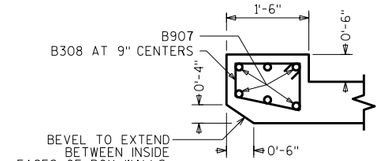
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B601	68	7-5	2-10	NO	CORNERS
B402	18	2-5	NO	NO	WALLS-DOWELS VERT.
B403	34	12-0	NO	NO	TOP&BOTTOM SLAB & WALL
B604	28	6-0	NO	⚠	BOTTOM SLAB TRANS.
B405	18	6-1	NO	NO	WALLS VERT.
B606	28	6-0	NO	⚠	TOP SLAB TRANS.
B907	24	15-9	NO	NO	HEADERS HORIZ.
B308	22	4-6	YES	NO	HEADER STIRRUPS VERT.
B309	66	4-8	YES	NO	HEADER STIRRUPS VERT.
● B510	28	2-6	NO	NO	VERT. CONST. JOINTS
B611	1	11-2	NO	NO	BOT. SLAB TRANS.
B612	1	11-2	NO	NO	TOP SLAB TRANS.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

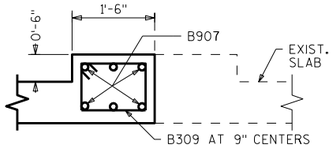
BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
B604	2 SERIES OF 14	1'-1" TO 10'-10"
B606	2 SERIES OF 14	1'-1" TO 10'-10"

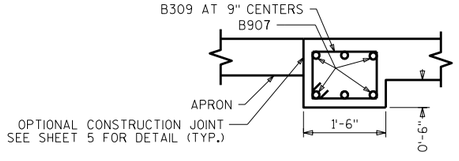
BUNDLE AND TAG EACH SERIES SEPARATELY.



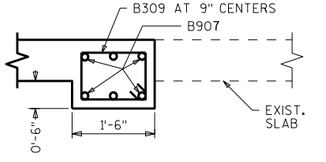
SECTION THRU TOP HEADER AT INLET



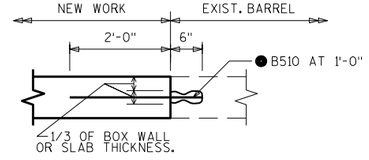
SECTION THRU TOP HEADER AT CONST. JOINT



SECTION THRU BOT. HEADER AT INLET



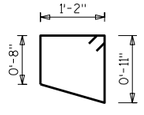
SECTION THRU BOT. HEADER AT CONST. JOINT



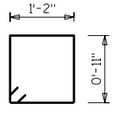
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



B308



B309

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1769

DRAWN BY MWB | PLANS CK'D. DFD

INLET DETAILS

SHEET 2

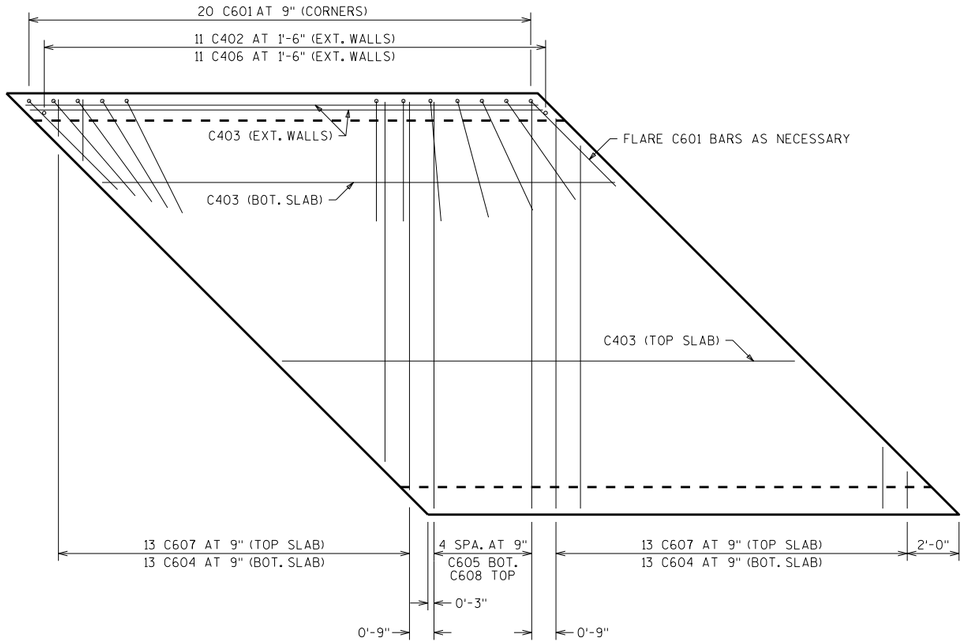
249

SCALE = 4

8

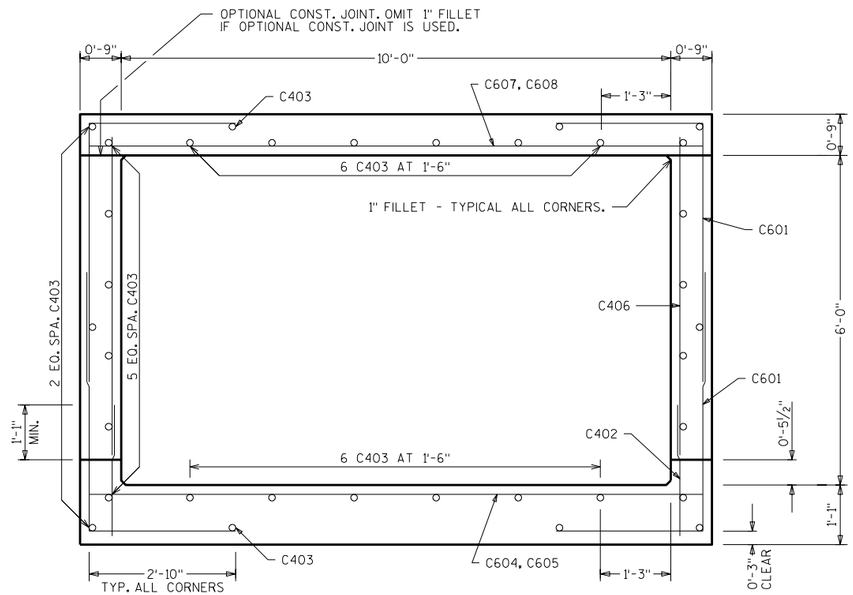
8

STATE PROJECT NUMBER
1650-06-73



PLAN VIEW OF OUTLET PANEL

APRON AND HEADER ARE NOT SHOWN.



TYPICAL SECTION THRU OUTLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.

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.

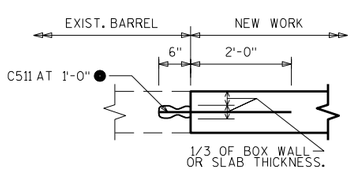
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
C601	80	7-5	2-10	NO	CORNERS
C402	22	2-5	NO	NO	WALLS-DOWELS VERT.
C403	34	14-6	NO	NO	TOP&BOTTOM SLAB & WALL
C604	26	6-1	NO	⚠	BOTTOM SLAB TRANS.
C605	5	11-2	NO	NO	BOTTOM SLAB TRANS.
C406	22	6-1	NO	NO	WALLS VERT.
C607	26	6-1	NO	⚠	TOP SLAB TRANS.
C608	5	11-2	NO	NO	TOP SLAB TRANS.
C909	24	15-9	NO	NO	HEADERS HORIZ.
C310	88	4-8	YES	NO	HEADER STIRRUPS VERT.
● C511	28	2-6	NO	NO	VERT. CONST. JOINTS

⚠ 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

MARK	NO. REQD.	LENGTH
C604	2 SERIES OF 13	1'-7" TO 10'-7"
C607	2 SERIES OF 13	1'-7" TO 10'-7"

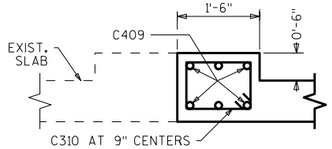
BUNDLE AND TAG EACH SERIES SEPARATELY.



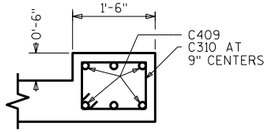
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

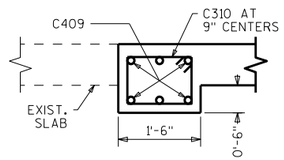
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



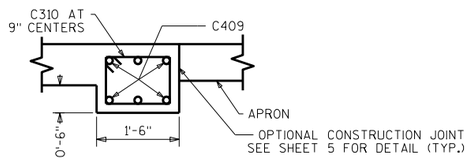
SECTION THRU TOP HEADER AT CONST. JOINT



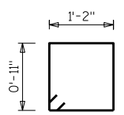
SECTION THRU TOP HEADER AT OUTLET



SECTION THRU BOT. HEADER AT CONST. JOINT



SECTION THRU BOT. HEADER AT OUTLET



C310

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1769

DRAWN BY MWB | PLANS CK'D. DFD

OUTLET DETAILS

SHEET 3

250

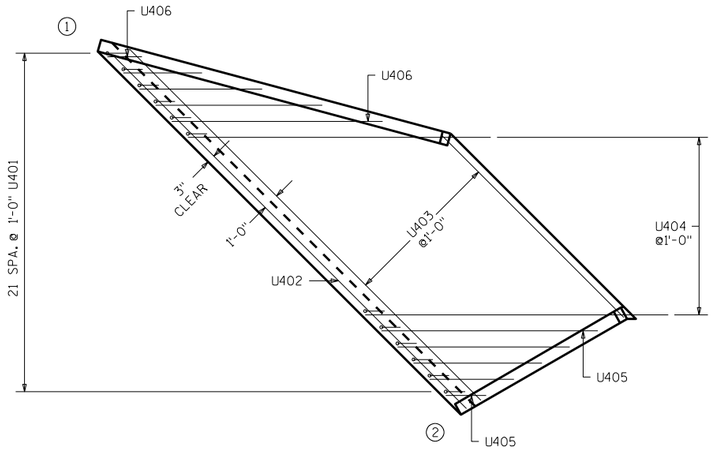
SCALE = 4

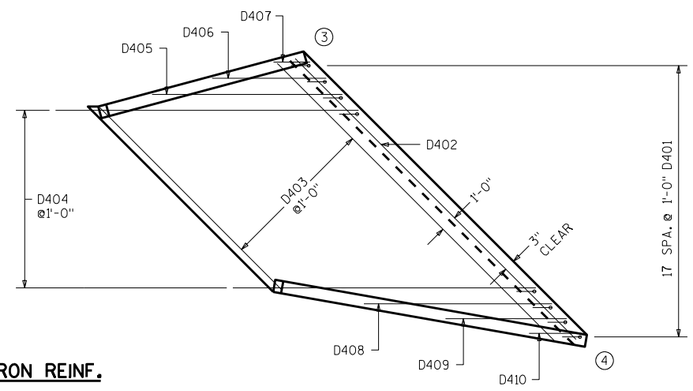
8

8

STATE PROJECT NUMBER

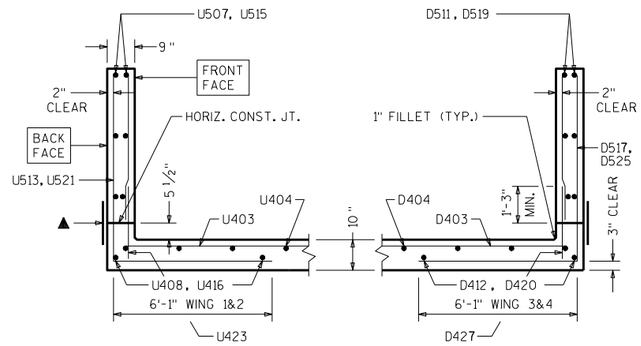
1650-06-73





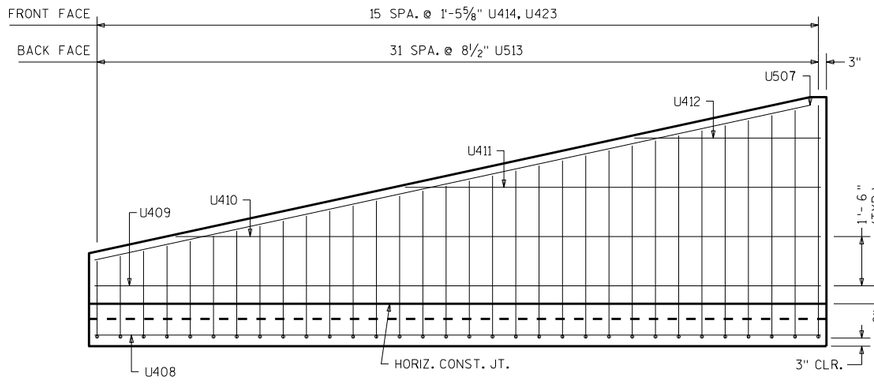
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).

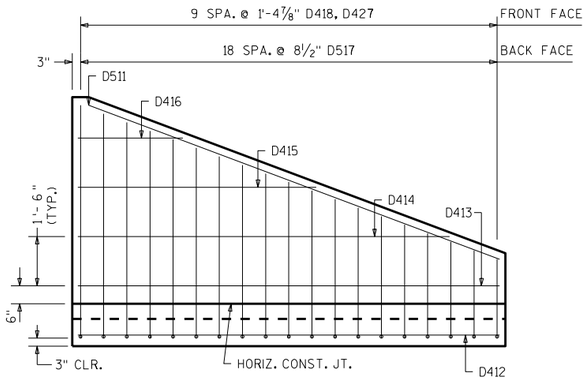


SECTION THRU WINGS

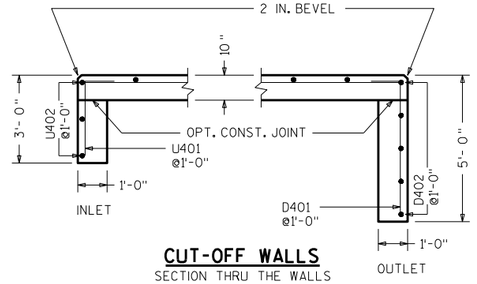
AT RIGHT ANGLES TO WING WALLS



WING 1

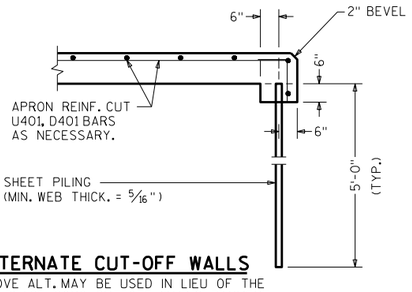


WING 3



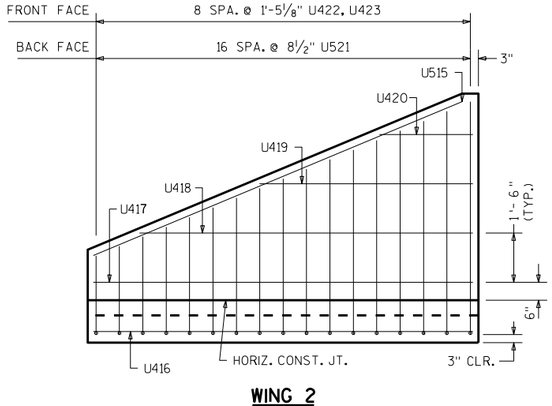
CUT-OFF WALLS

SECTION THRU THE WALLS

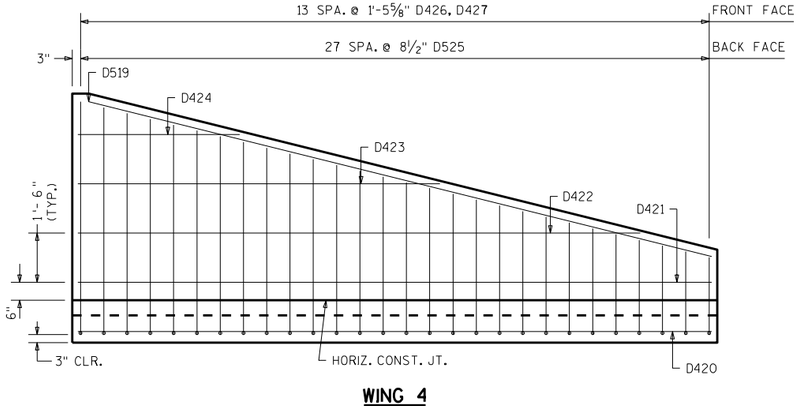


ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 2



WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1769

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 4

251

SCALE = 4

8

8

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

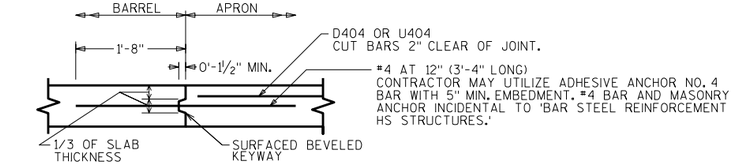
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		22	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	31 - 7			INLET APRON AND CUTOFF WALL
U403		11	23 - 9		*	" APRON
U404		12	18 - 8			" APRON
U405		5	8 - 1		*	" APRON
U406		5	8 - 4		*	" APRON
U507	X	2	22 - 7			WING 1 -HORIZONTAL - BOTH FACES
U408	X	2	22 - 1			WING "-HORIZONTAL -APRON BOTT. SLAB
U409	X	2	22 - 1			WING "-HORIZONTAL - BOTH FACES
U410	X	2	19 - 6			WING "-HORIZONTAL - BOTH FACES
U411	X	2	12 - 6			WING "-HORIZONTAL - BOTH FACES
U412	X	2	5 - 7			WING "-HORIZONTAL - BOTH FACES
U513	X	32	10 - 9	6 - 1	*	WING "-VERTICAL - BACK FACE
U414	X	16	3 - 8		*	WING "-VERTICAL - FRONT FACE
U515	X	2	12 - 5			WING 2 -HORIZONTAL - BOTH FACES
U416	X	2	11 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
U417	X	2	11 - 6			WING "-HORIZONTAL - BOTH FACES
U418	X	2	10 - 2			WING "-HORIZONTAL - BOTH FACES
U419	X	2	6 - 7			WING "-HORIZONTAL - BOTH FACES
U420	X	2	3 - 0			WING "-HORIZONTAL - BOTH FACES
U521	X	17	10 - 9	6 - 1	*	WING "-VERTICAL - BACK FACE
U422	X	9	3 - 8		*	WING "-VERTICAL - FRONT FACE
U423	X	25	2 - 4			WINGS 1 AND 2 - DOWELS - FRONT FACE
D401		17	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	24 - 8			OUTLET APRON AND CUTOFF WALL
D403		11	20 - 4		*	" APRON
D404		12	18 - 8			" APRON
D405		1	11 - 7			" APRON
D406		1	6 - 10			" APRON
D407		1	2 - 1			" APRON
D408		1	11 - 11			" APRON
D409		1	7 - 3			" APRON
D410		1	2 - 7			" APRON
D511	X	2	13 - 8			WING 3 -HORIZONTAL - BOTH FACES
D412	X	2	12 - 10			WING "-HORIZONTAL -APRON BOTT. SLAB
D413	X	2	12 - 10			WING "-HORIZONTAL - BOTH FACES
D414	X	2	11 - 4			WING "-HORIZONTAL - BOTH FACES
D415	X	2	7 - 4			WING "-HORIZONTAL - BOTH FACES
D416	X	2	3 - 4			WING "-HORIZONTAL - BOTH FACES
D517	X	19	10 - 9	6 - 1	*	WING "-VERTICAL - BACK FACE
D418	X	10	3 - 8		*	WING "-VERTICAL - FRONT FACE
D519	X	2	19 - 10			WING 4 -HORIZONTAL - BOTH FACES
D420	X	2	19 - 3			WING "-HORIZONTAL -APRON BOTT. SLAB
D421	X	2	19 - 3			WING "-HORIZONTAL - BOTH FACES
D422	X	2	17 - 0			WING "-HORIZONTAL - BOTH FACES
D423	X	2	10 - 11			WING "-HORIZONTAL - BOTH FACES
D424	X	2	4 - 11			WING "-HORIZONTAL - BOTH FACES
D525	X	28	10 - 9	6 - 1	*	WING "-VERTICAL - BACK FACE
D426	X	14	3 - 8		*	WING "-VERTICAL - FRONT FACE
D427	X	24	2 - 4			WINGS 3 AND 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

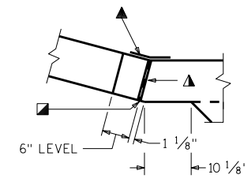
BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 11	16 - 5 TO 31 - 0
U405	1 SERIES OF 5	2 - 7 TO 13 - 6
U406	1 SERIES OF 5	2 - 10 TO 13 - 9
U513	1 SERIES OF 32	8 - 5 TO 13 - 1
U414	1 SERIES OF 16	1 - 4 TO 6 - 0
U521	1 SERIES OF 18	8 - 5 TO 13 - 1
U422	1 SERIES OF 9	1 - 4 TO 6 - 0
D403	1 SERIES OF 11	16 - 1 TO 24 - 7
D517	1 SERIES OF 19	8 - 5 TO 13 - 1
D418	1 SERIES OF 10	1 - 4 TO 6 - 0
D525	1 SERIES OF 28	8 - 5 TO 13 - 1
D426	1 SERIES OF 14	1 - 4 TO 6 - 0

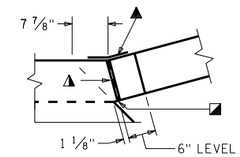


OPTIONAL CONSTRUCTION JOINT

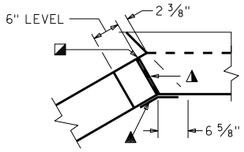
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



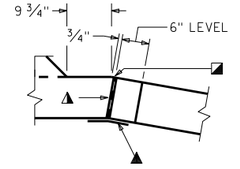
CORNER 1



CORNER 3



CORNER 2



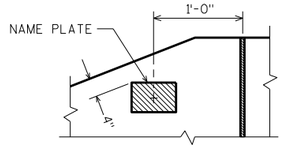
CORNER 4

CORNER DETAILS

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.



NAME PLATE LOCATION

WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1769

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 5

252

8

8

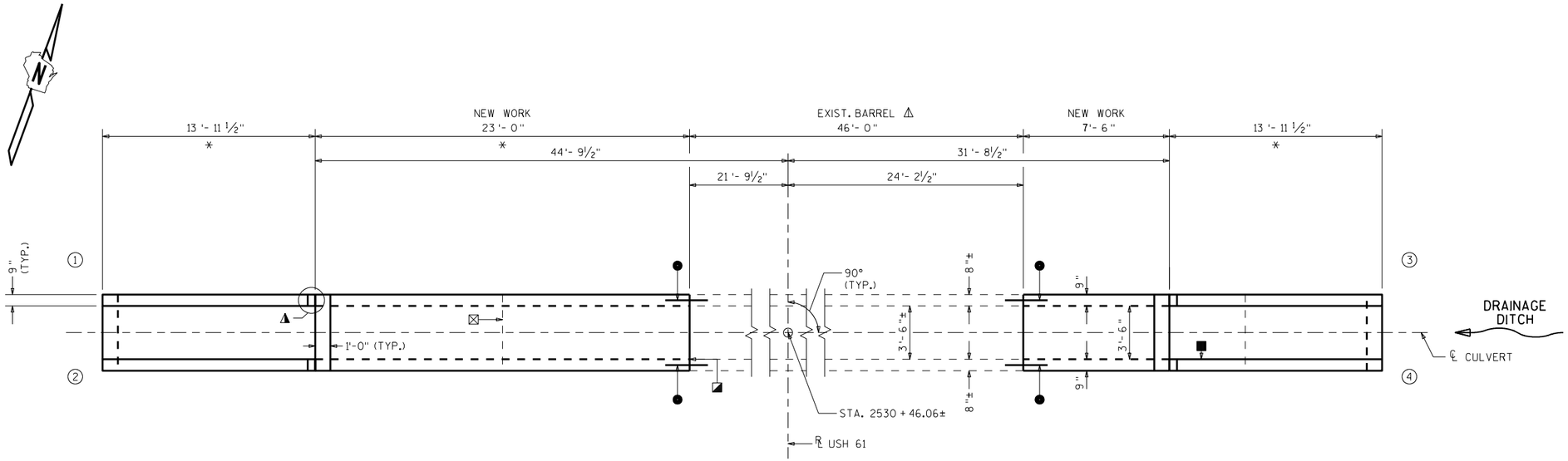
SCALE = 4

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

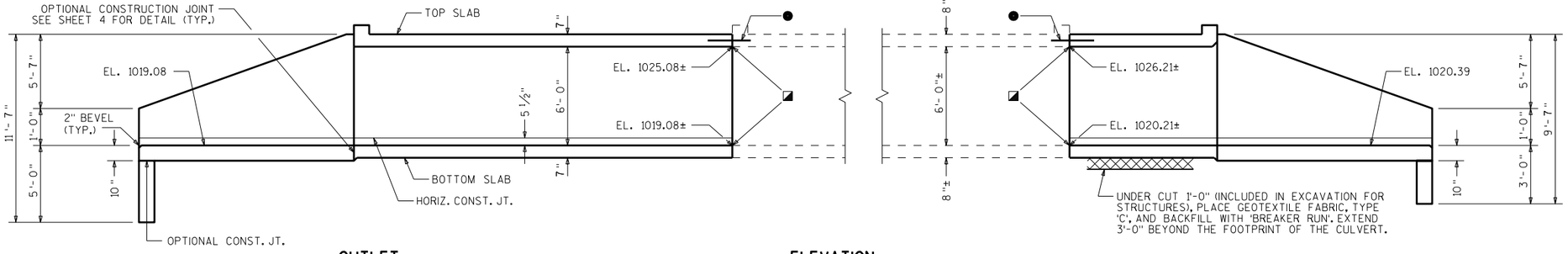
STATE PROJECT NUMBER

1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



OUTLET ELEVATION INLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2530+46.06	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1770	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	490	TON
311.0115	BREAKER RUN	23	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	28	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2230	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	82	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1770" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1770

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

253

I.D. 1650-06-03H

DATE: NOV. 2016

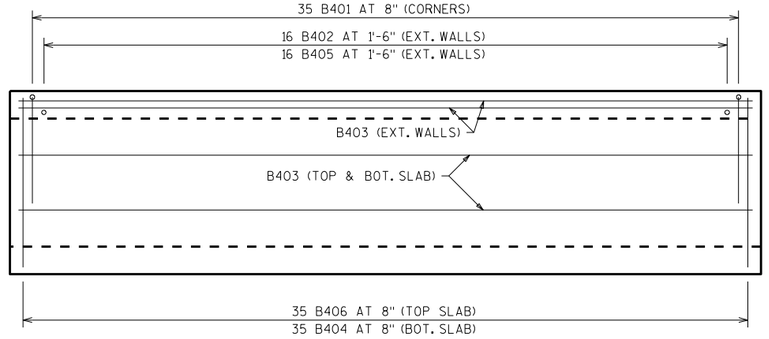
SCALE = 4

8

8

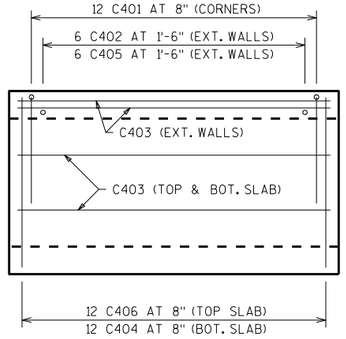
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



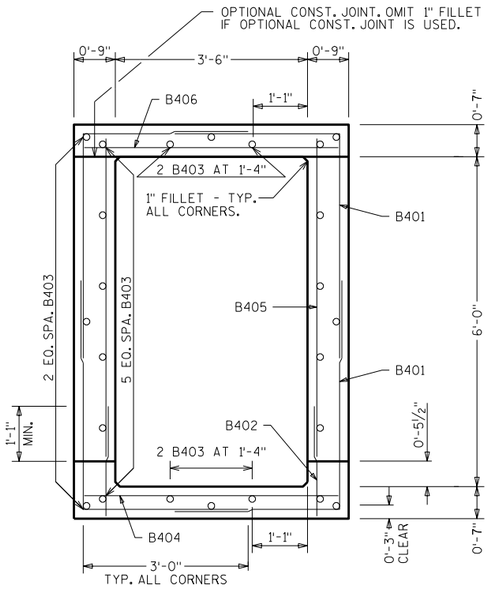
PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

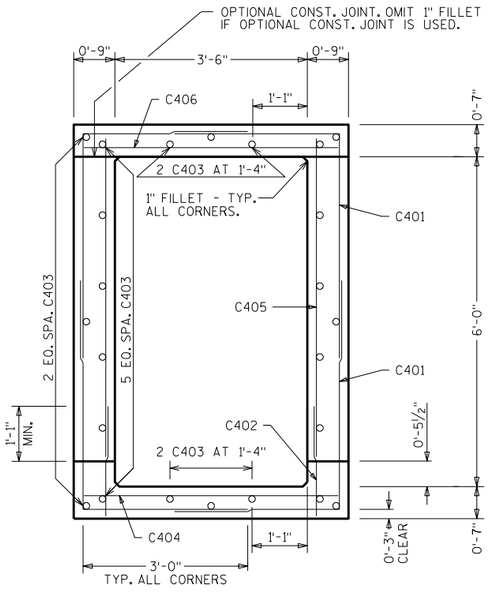
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	140	7-0	3-0	NO	CORNERS
B402	32	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	7-0	NO	NO	TOP&BOTTOM SLAB & WALL
B404	35	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	32	5-11	NO	NO	WALLS VERT.
B406	35	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	48	7-0	3-0	NO	CORNERS
C402	12	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	22-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	12	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	12	5-11	NO	NO	WALLS VERT.
C406	12	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



TYPICAL SECTION THRU OUTLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

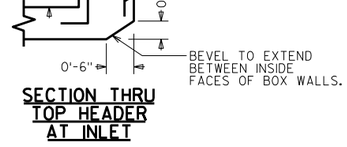


TYPICAL SECTION THRU INLET EXTENSION

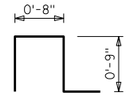
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



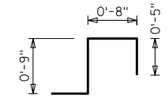
SECTION THRU TOP HEADER AT OUTLET



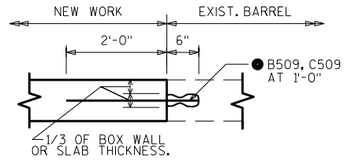
SECTION THRU TOP HEADER AT INLET



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1770

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

254

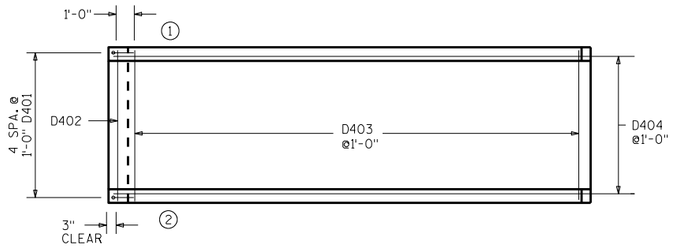
SCALE = 4

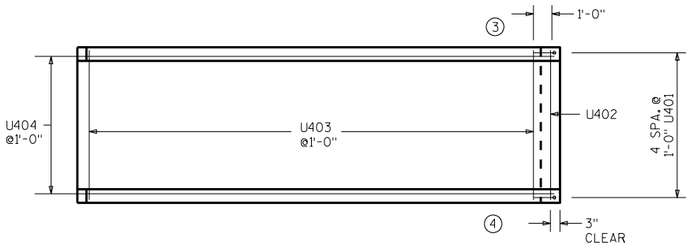
8

8

STATE PROJECT NUMBER

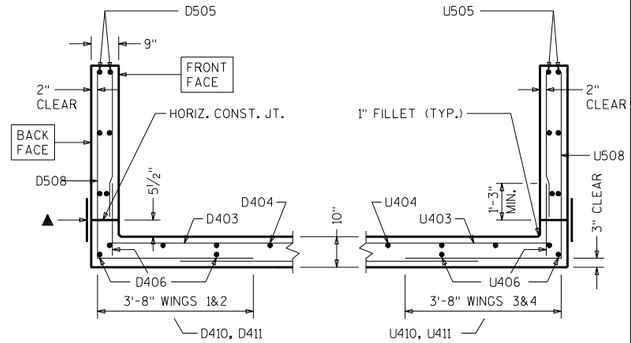
1650-06-73





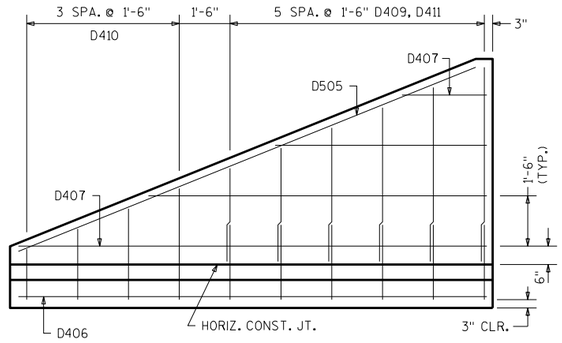
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



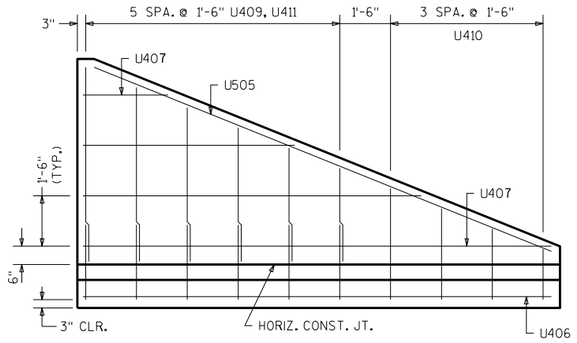
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



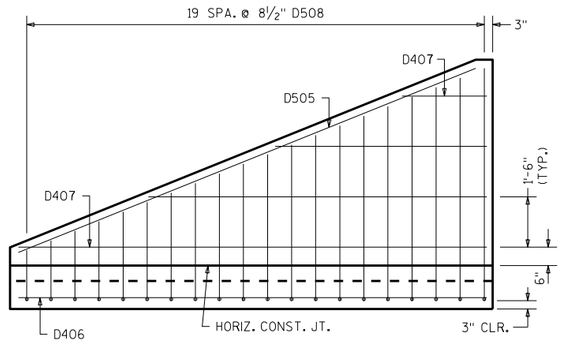
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



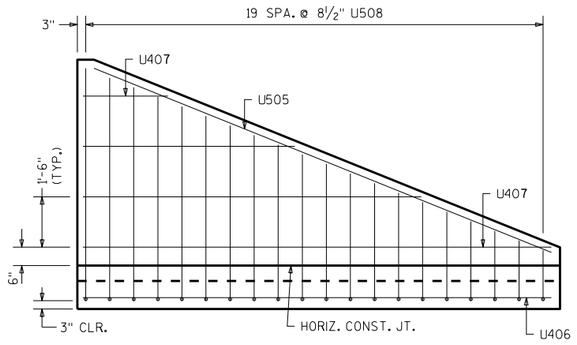
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



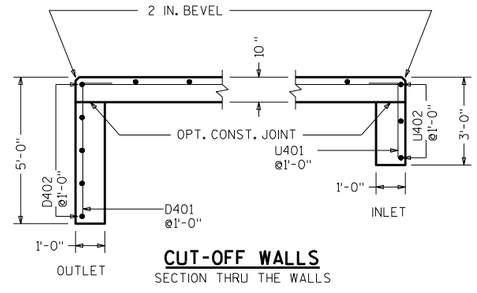
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



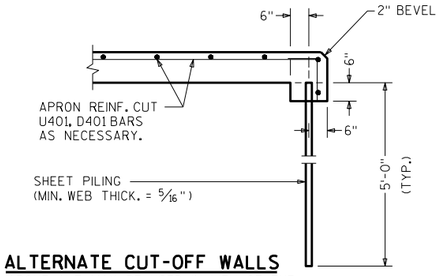
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1770

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

255

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

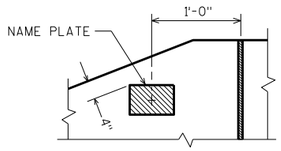
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-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.

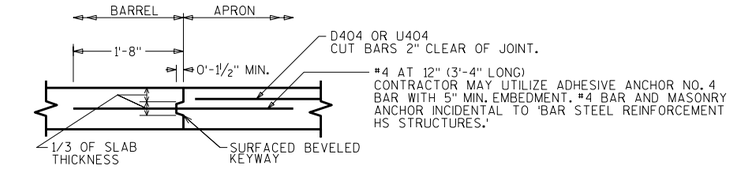
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4



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.

CORNER 1 CORNER 3

CORNER 2 CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1770

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

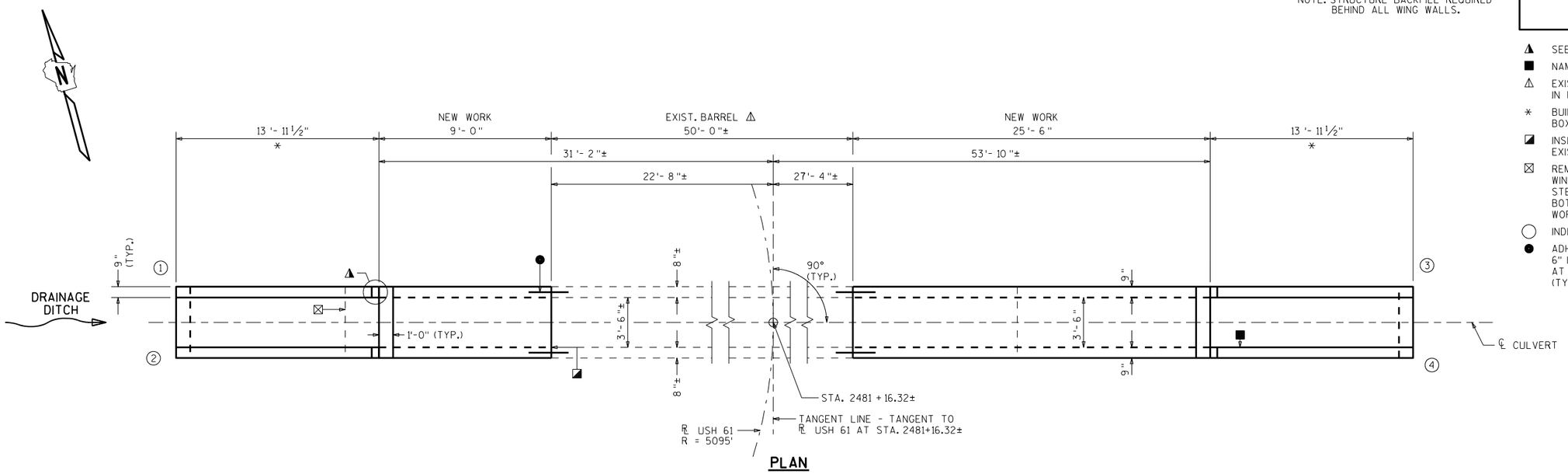
256

SCALE = 4

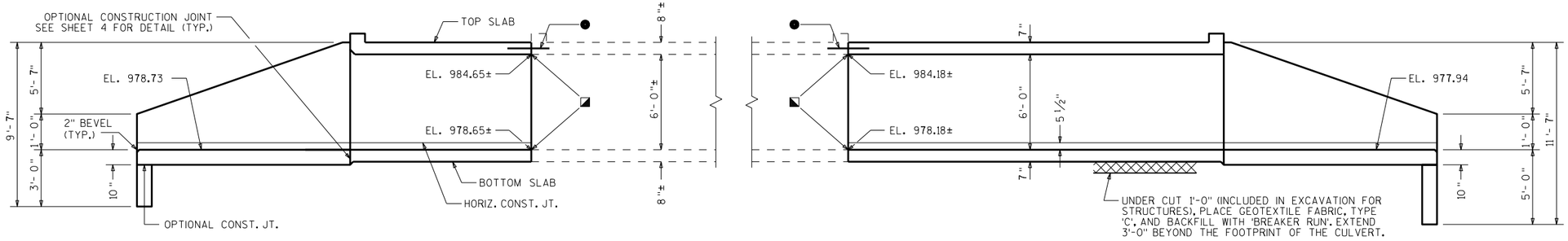
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ▲ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



INLET ELEVATION OUTLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES
CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2481+16.32	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1771	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	532	TON
311.0115	BREAKER RUN	25	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	31	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2480	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	88	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1771" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1771

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

257

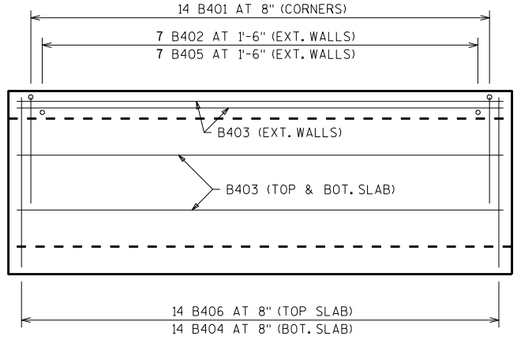
I.D. 1650-06-031

DATE: NOV. 2016

SCALE = 4

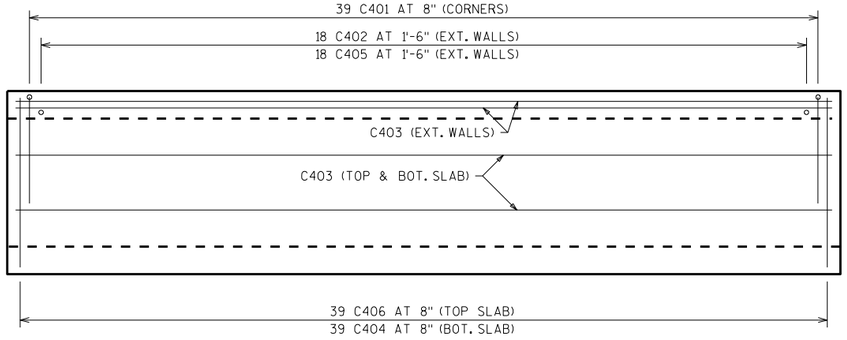
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



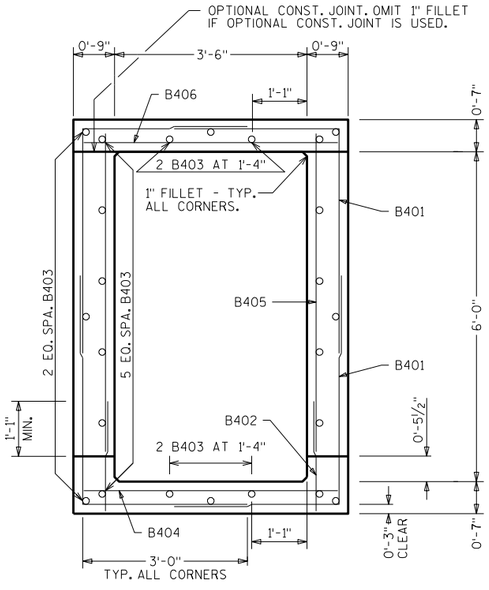
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

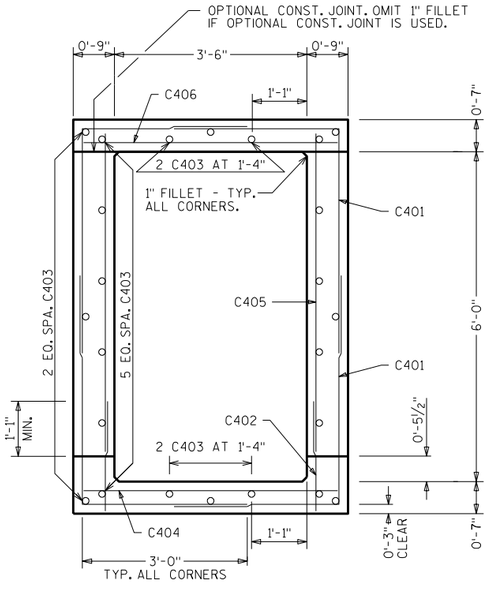
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	56	7-0	3-0	NO	CORNERS
B402	14	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	8-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	14	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	14	5-11	NO	NO	WALLS VERT.
B406	14	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	156	7-0	3-0	NO	CORNERS
C402	36	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	25-0	NO	NO	TOP&BOTTOM SLAB & WALL
C404	39	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	36	5-11	NO	NO	WALLS VERT.
C406	39	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



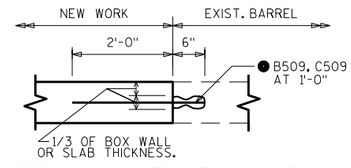
TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU OUTLET EXTENSION

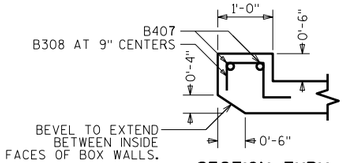
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



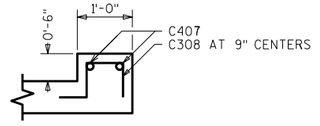
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

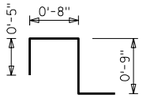
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



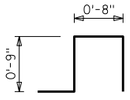
SECTION THRU TOP HEADER AT INLET



SECTION THRU TOP HEADER AT OUTLET



B308



C308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1771

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

258

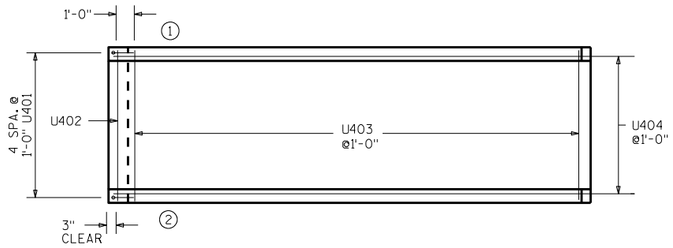
SCALE = 4

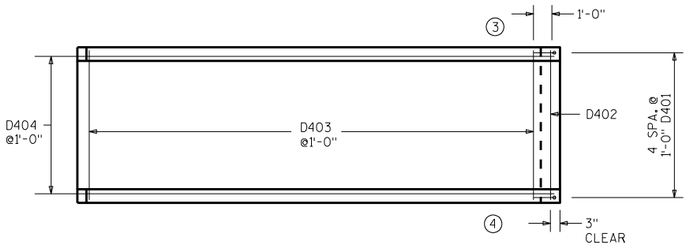
8

8

STATE PROJECT NUMBER

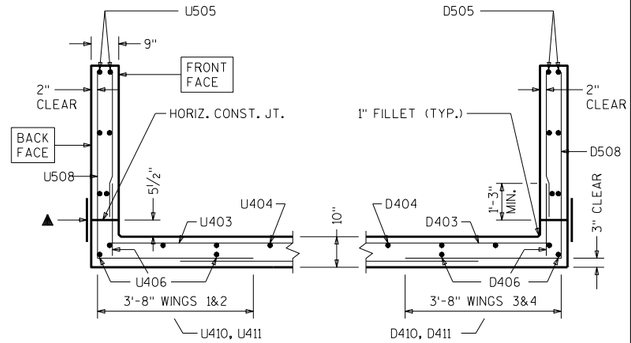
1650-06-73





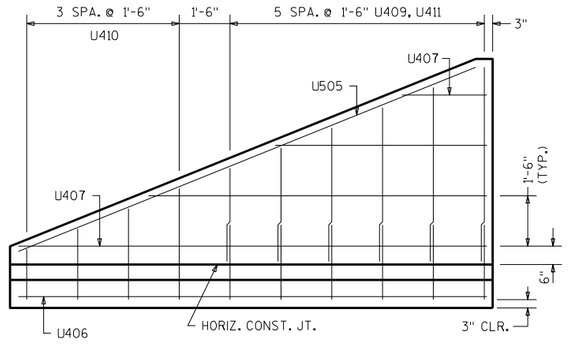
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



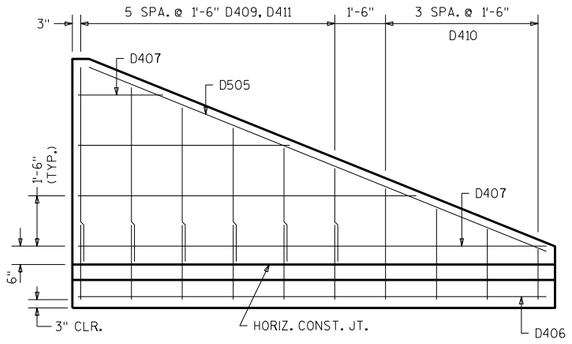
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



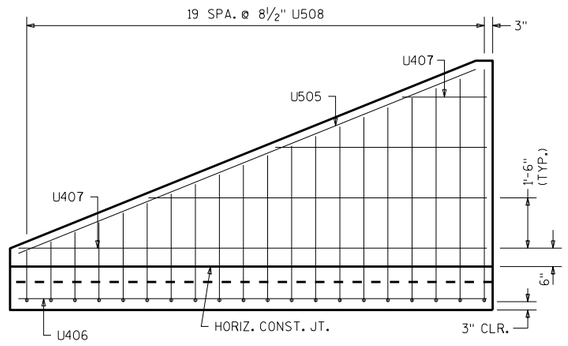
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



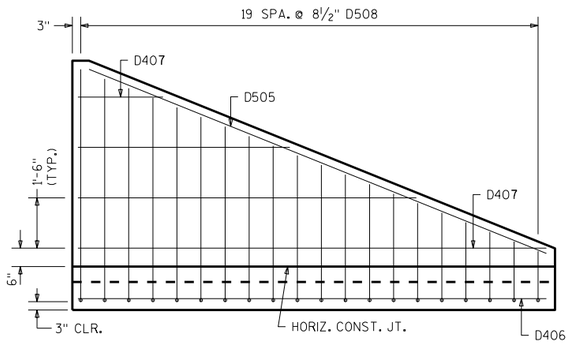
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



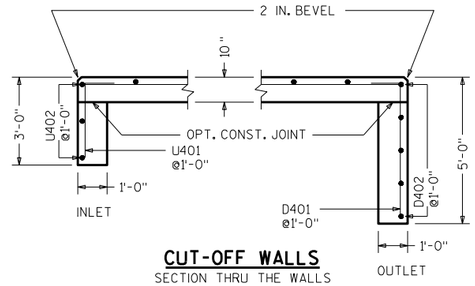
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



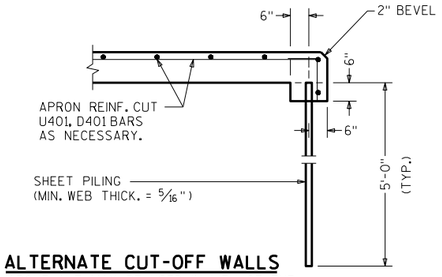
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1771

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

259

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

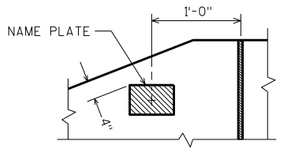
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
D401		5	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-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.

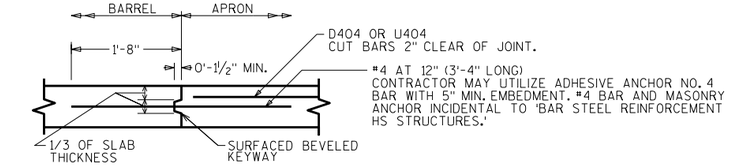
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4

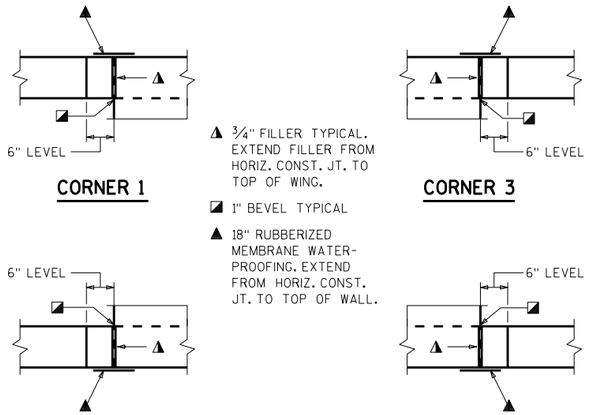


NAME PLATE LOCATION
WING 4



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1
CORNER 3
CORNER 2
CORNER 4

CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1771

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

260

SCALE = 4

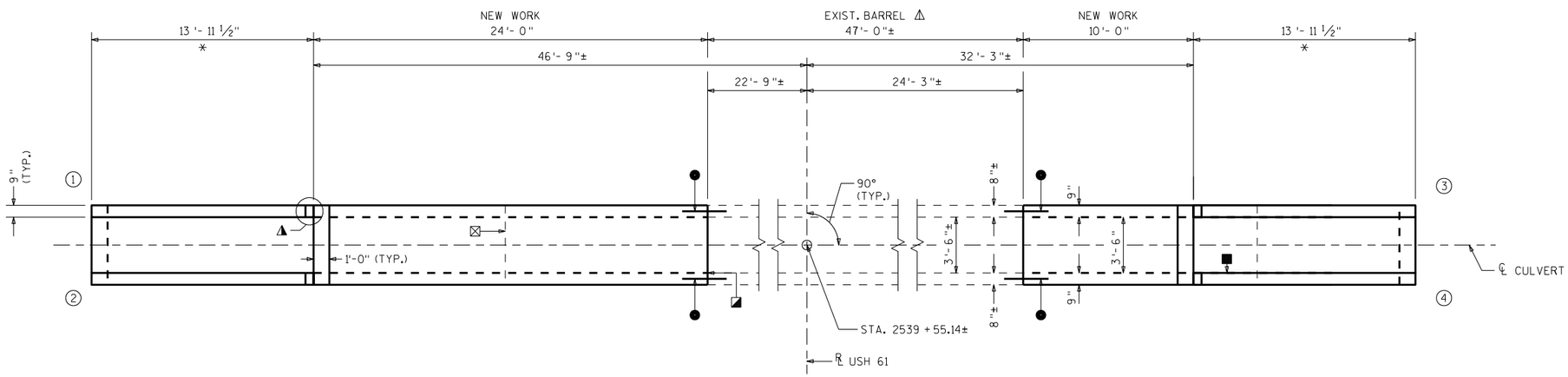
8

8

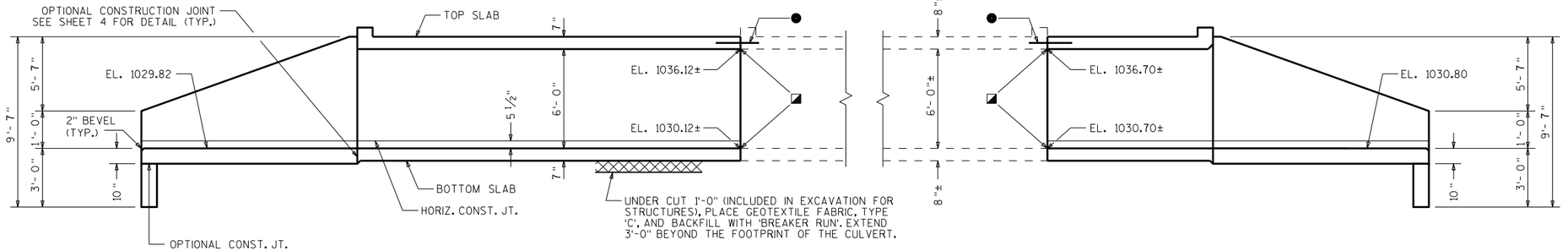
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



OUTLET **ELEVATION** **INLET**

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2539+55.14	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1772	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	526	TON
311.0115	BREAKER RUN	24	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	30	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2430	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1120	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	87	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1772" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1772

USH 61 OVER CATTLE PASS

COUNTY	TOWN ~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

261

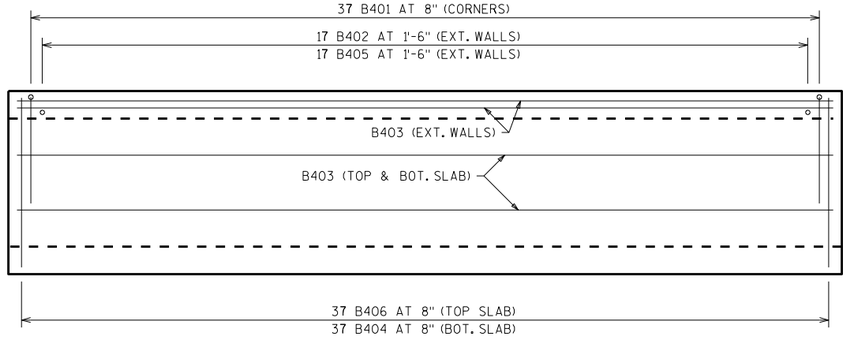
I.D. 1650-06-03M

DATE: NOV. 2016

SCALE = 4

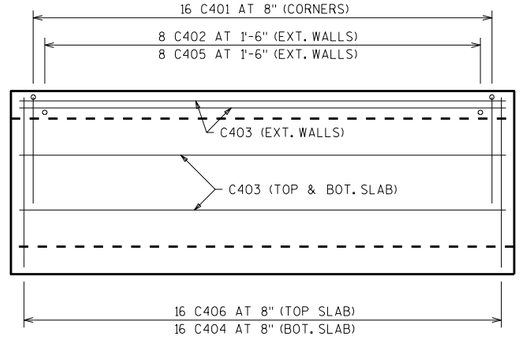
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.



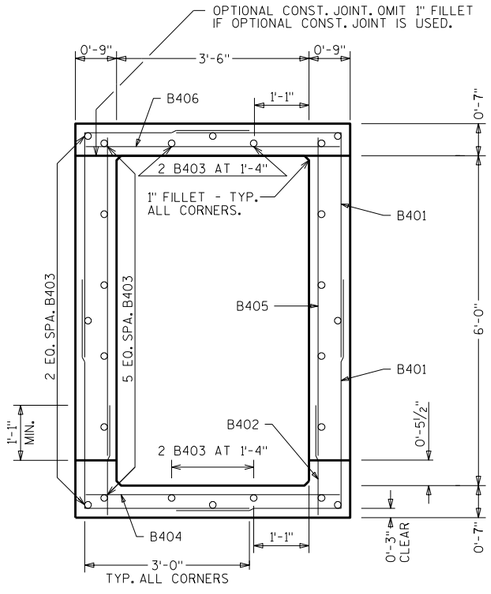
PLAN VIEW OF INLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

BILL OF BARS

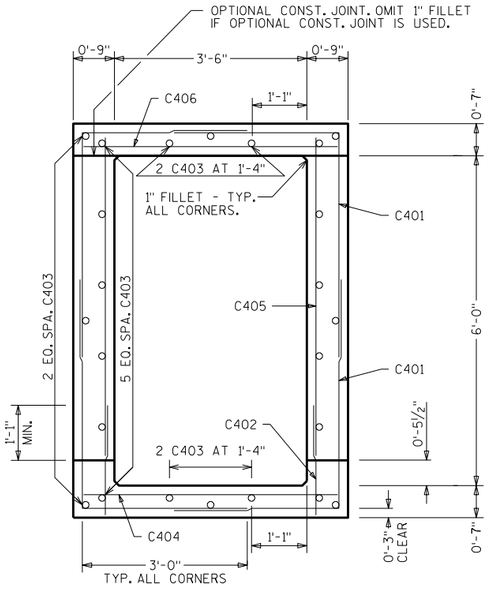
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	148	7-0	3-0	NO	CORNERS
B402	34	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	7-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	37	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	34	5-11	NO	NO	WALLS VERT.
B406	37	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	64	7-0	3-0	NO	CORNERS
C402	16	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	23-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	16	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	16	5-11	NO	NO	WALLS VERT.
C406	16	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



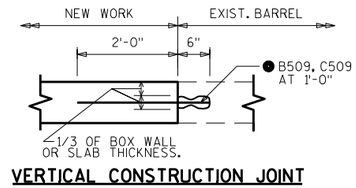
TYPICAL SECTION THRU OUTLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU INLET EXTENSION

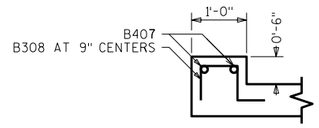
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



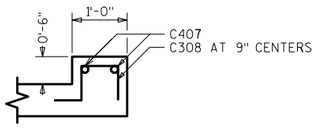
VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

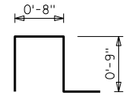
● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



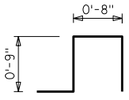
SECTION THRU TOP HEADER AT OUTLET



SECTION THRU TOP HEADER AT INLET



B308



C308

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1772

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

262

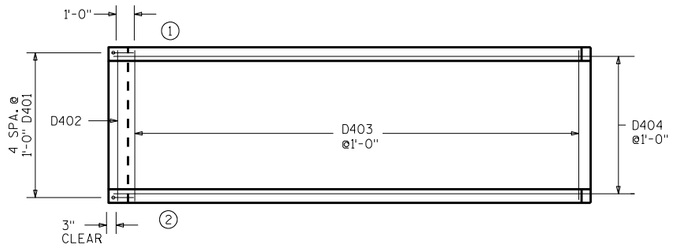
8

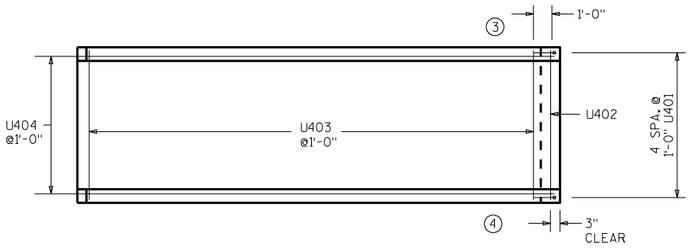
8

SCALE = 4

STATE PROJECT NUMBER

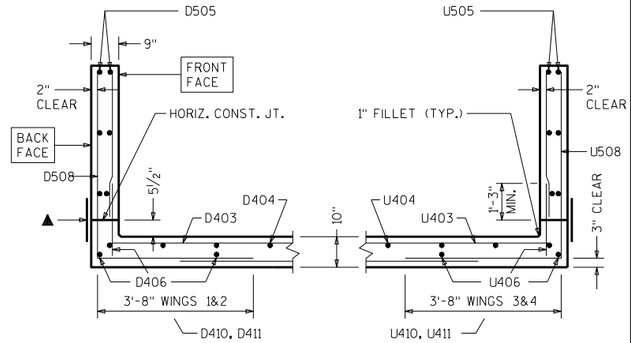
1650-06-73





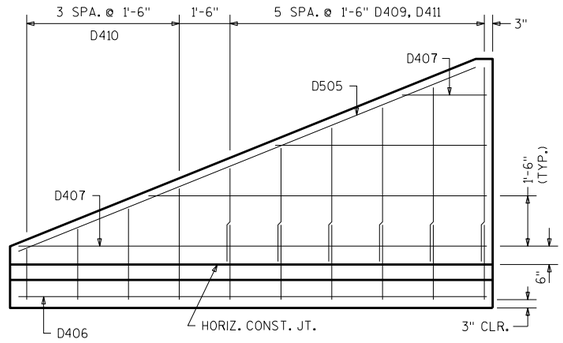
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



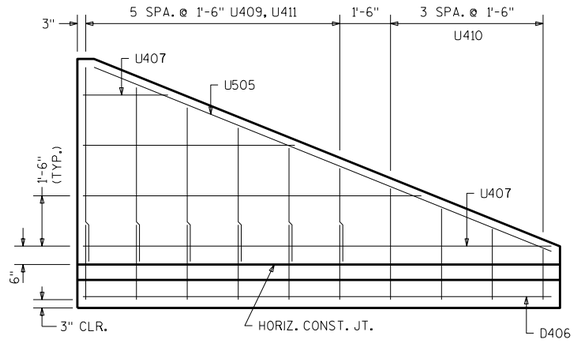
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



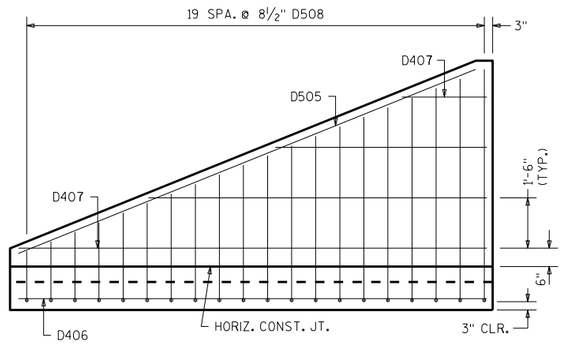
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



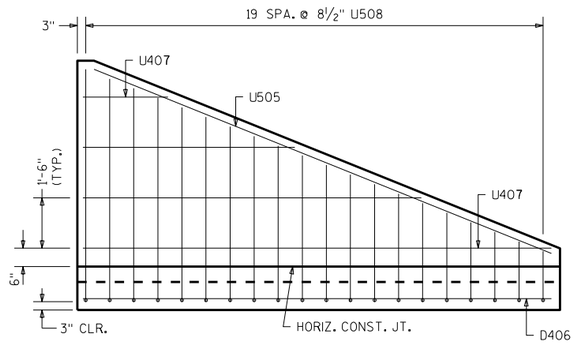
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



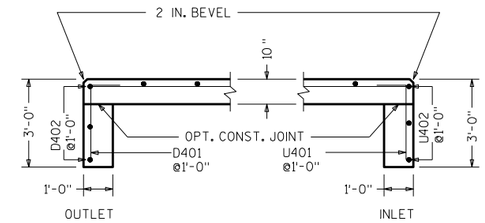
WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



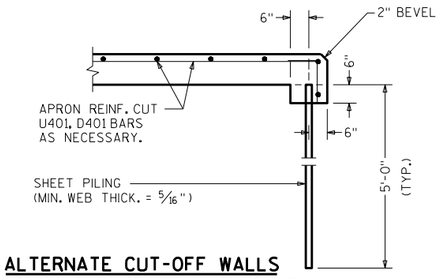
WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR



CUT-OFF WALLS

SECTION THRU THE WALLS



ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1772

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

263

SCALE = 4

8

8

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

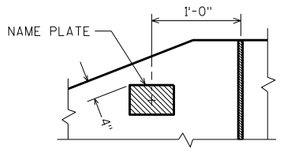
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
D401		5	3 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		3	4 - 8			OUTLET APRON AND CUTOFF WALL
D403		13	4 - 8			" APRON
D404		5	16 - 0			" APRON
D505	X	4	14 - 4			WINGS 1&2 -HORIZONTAL - BOTH FACES
D406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
D508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
D409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
D410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
D411	X	12	2 - 2			WINGS "-DOWELS - FRONT FACE
U401		5	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	4 - 8			INLET APRON AND CUTOFF WALL
U403		13	4 - 8			" APRON
U404		5	16 - 0			" APRON
U505	X	4	14 - 4			WINGS 3&4 -HORIZONTAL - BOTH FACES
U406	X	3	13 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U407	X	16	8 - 0		*	WINGS "-HORIZONTAL - BOTH FACES
U508	X	40	7 - 9	3 - 8	*	WINGS "-VERTICAL - BACK FACE
U409	X	12	4 - 5		*	WINGS "-VERTICAL - FRONT FACE
U410	X	8	2 - 5		*	WINGS "-VERTICAL - FRONT FACE
U411	X	12	2 - 2			WINGS "-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.

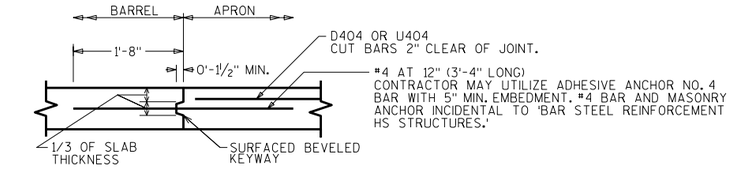
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D407	4 SERIES OF 4	2 - 7 TO 13 - 6
D508	2 SERIES OF 20	5 - 0 TO 10 - 6
D409	2 SERIES OF 6	2 - 11 TO 5 - 11
D410	2 SERIES OF 4	1 - 5 TO 3 - 4
U407	4 SERIES OF 4	2 - 7 TO 13 - 6
U508	2 SERIES OF 20	5 - 0 TO 10 - 6
U409	2 SERIES OF 6	2 - 11 TO 5 - 11
U410	2 SERIES OF 4	1 - 5 TO 3 - 4



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.

CORNER 1 CORNER 3

CORNER 2 CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1772

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

264

SCALE = 4

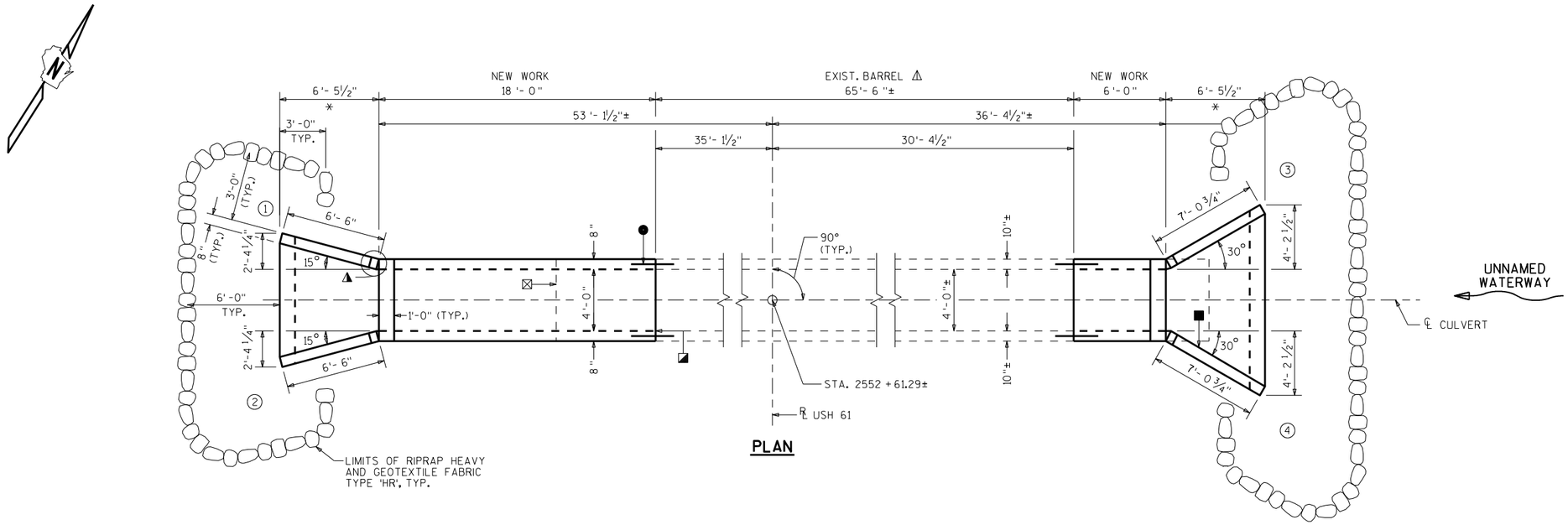
8

8

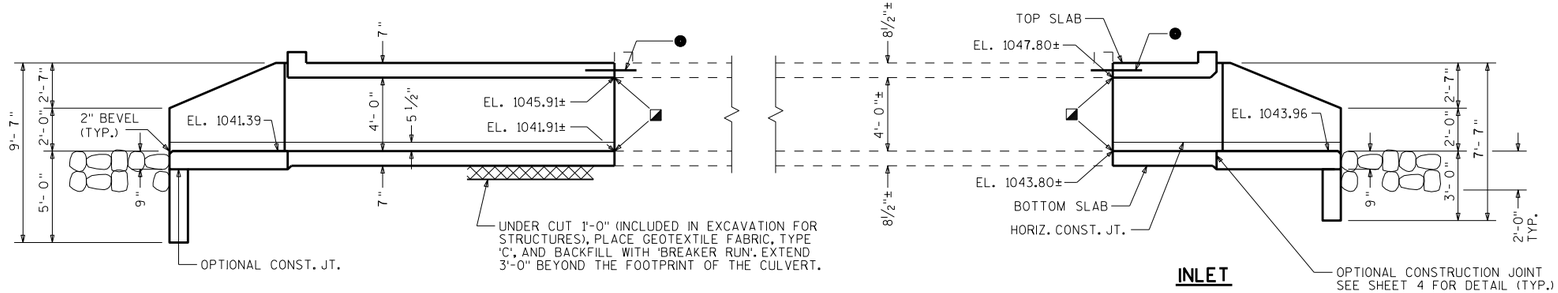
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- * BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



OUTLET

ELEVATION

INLET

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 4.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2552+61.29	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1773	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	212	TON
311.0115	BREAKER RUN	17	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	28	EACH
504.0100	CONCRETE MASONRY CULVERTS	19	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	1420	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	490	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	14	SY
606.0300	RIPRAP HEAVY	21	CY
645.0105	GEOTEXTILE TYPE C	59	SY
645.0120	GEOTEXTILE TYPE HR	55	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1773" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-22-1773

USH 61 OVER UNNAMED WATERWAY

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

265

I.D. 1650-06-03N

DATE: NOV. 2016

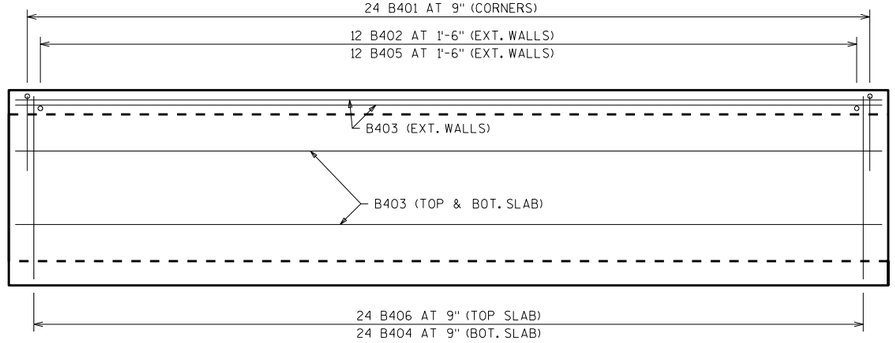
SCALE = 4

8

8

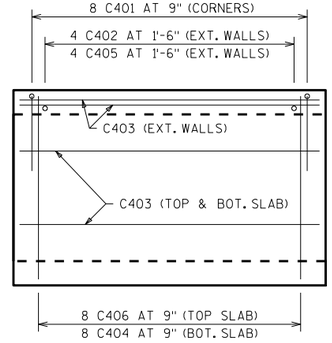
STATE PROJECT NUMBER

1650-06-73



PLAN VIEW OF OUTLET PANEL

APRON AND HEADER ARE NOT SHOWN.



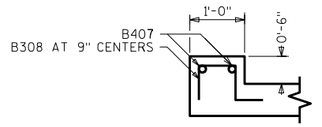
PLAN VIEW OF INLET PANEL

APRON AND HEADER ARE NOT SHOWN.

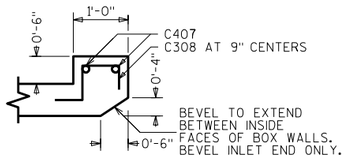
BILL OF BARS

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.

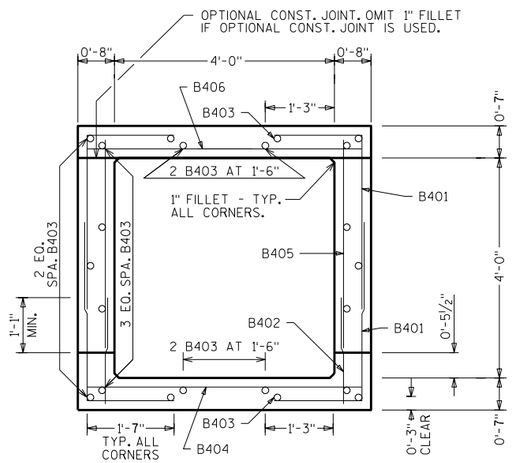
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	96	4-7	1-7	NO	CORNERS
B402	24	1-11	NO	NO	WALLS-DOWELS VERT.
B403	22	17-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	24	5-0	NO	NO	BOTTOM SLAB TRANS.
B405	24	3-11	NO	NO	WALLS VERT.
B406	24	5-0	NO	NO	TOP SLAB TRANS.
B407	2	5-0	NO	NO	HEADERS HORIZ.
B308	8	2-5	YES	NO	HEADER STIRRUPS VERT.
● B509	14	2-6	NO	NO	VERT. CONST. JOINTS
C401	32	4-7	1-7	NO	CORNERS
C402	8	1-11	NO	NO	WALLS-DOWELS VERT.
C403	22	5-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	8	5-0	NO	NO	BOTTOM SLAB TRANS.
C405	8	3-11	NO	NO	WALLS VERT.
C406	8	5-0	NO	NO	TOP SLAB TRANS.
C407	2	5-0	NO	NO	HEADERS HORIZ.
C308	8	2-1	YES	NO	HEADER STIRRUPS VERT.
● C509	14	2-6	NO	NO	VERT. CONST. JOINTS



SECTION THRU TOP HEADER AT OUTLET

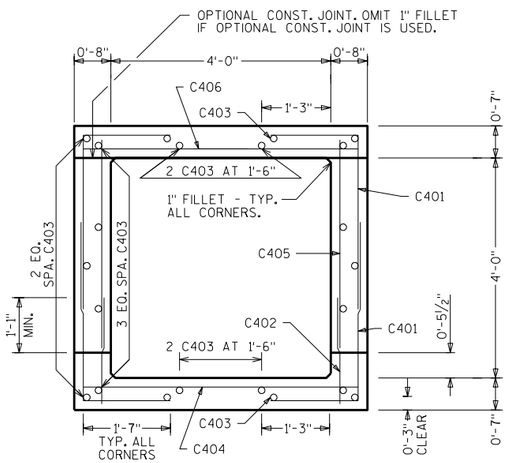


SECTION THRU TOP HEADER AT INLET



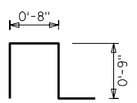
TYPICAL SECTION THRU OUTLET PANEL

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.

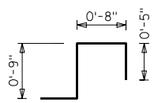


TYPICAL SECTION THRU INLET PANEL

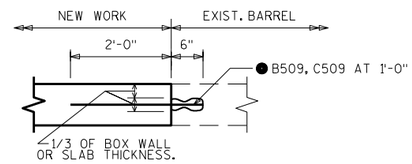
ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



B308



C308



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1773

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

266

SCALE = 4

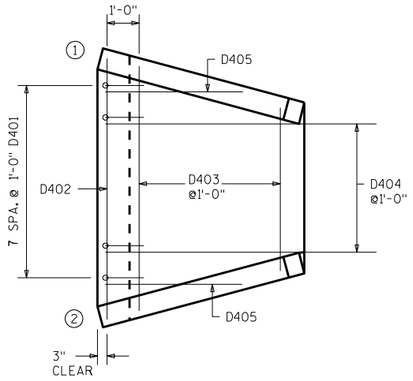
8

8

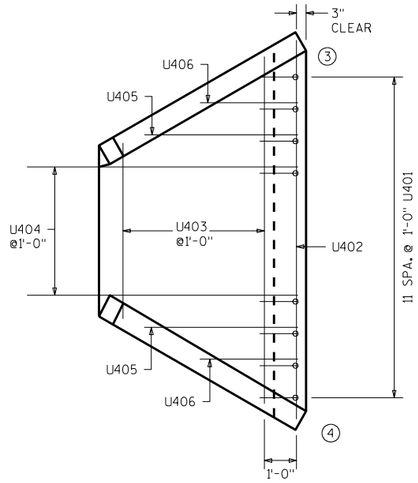
STATE PROJECT NUMBER

1650-06-73

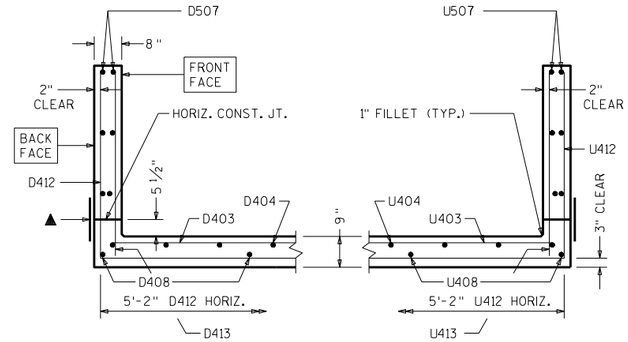




APRON REINF.

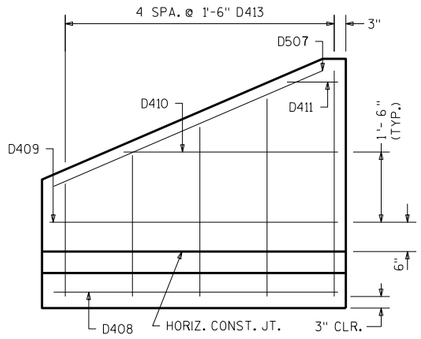


▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



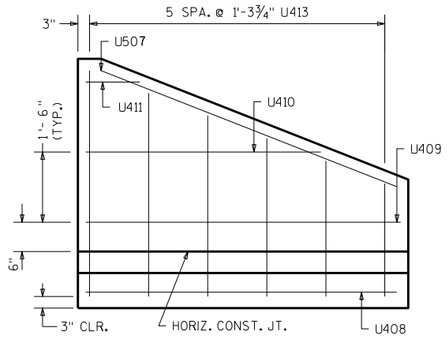
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



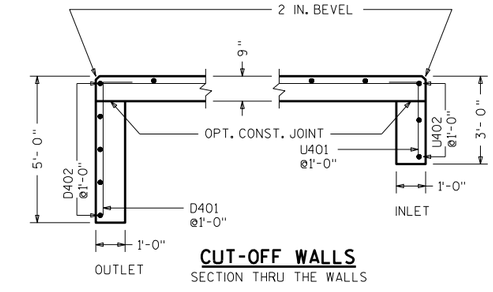
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



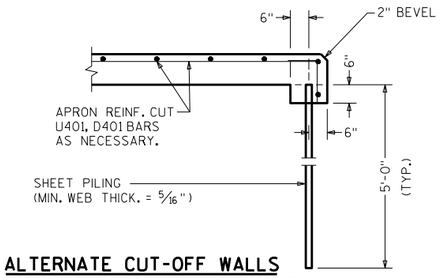
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



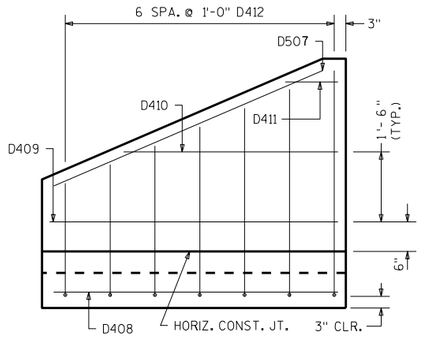
CUT-OFF WALLS

SECTION THRU THE WALLS



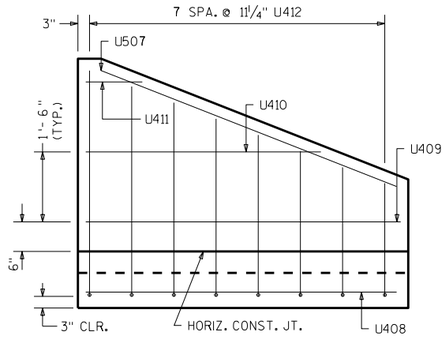
ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



WING 3

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1773

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

267

SCALE = 4

8

8

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

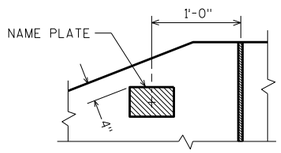
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
D401		12	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	7 - 4			OUTLET APRON AND CUTOFF WALL
D403		6	6 - 5		*	" APRON
D404		6	8 - 6			" APRON
D405		2	2 - 5			" APRON
D406		NOT	USED			
D507	X	4	6 - 3			WINGS 1 AND 2 -HORIZONTAL -BOTH FACES
D408	X	4	6 - 0			WINGS "-HORIZONTAL -APRON BOTT. SLAB
D409	X	4	6 - 0			WINGS "-HORIZONTAL - BOTH FACES
D410	X	4	4 - 8			WINGS "-HORIZONTAL - BOTH FACES
D411	X	4	1 - 2			WINGS "-HORIZONTAL - BOTH FACES
D512	X	14	8 - 9	5 - 2	*	WINGS "-VERTICAL - BACK FACE
D413	X	10	3 - 8		*	WINGS "-VERTICAL - FRONT FACE
U401		10	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	11 - 1			INLET APRON AND CUTOFF WALL
U403		6	8 - 1		*	" APRON
U404		6	8 - 6			" APRON
U405		2	4 - 5			" APRON
U406		2	2 - 8			" APRON
U507	X	4	6 - 10			WINGS 3 AND 4 -HORIZONTAL -BOTH FACES
U408	X	4	6 - 6			WINGS "-HORIZONTAL -APRON BOTT. SLAB
U409	X	4	6 - 6			WINGS "-HORIZONTAL - BOTH FACES
U410	X	4	5 - 1			WINGS "-HORIZONTAL - BOTH FACES
U411	X	4	1 - 3			WINGS "-HORIZONTAL - BOTH FACES
U512	X	16	8 - 9	5 - 2	*	WINGS "-VERTICAL - BACK FACE
U413	X	12	3 - 8		*	WINGS "-VERTICAL - FRONT FACE

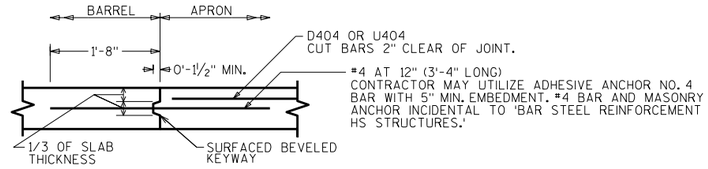
* LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE --- BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 6	5 - 1 TO 7 - 9
D512	2 SERIES OF 7	7 - 6 TO 10 - 0
D413	2 SERIES OF 5	2 - 5 TO 4 - 11
U403	1 SERIES OF 6	5 - 3 TO 10 - 11
U512	2 SERIES OF 8	7 - 6 TO 10 - 0
U413	2 SERIES OF 6	2 - 5 TO 4 - 11

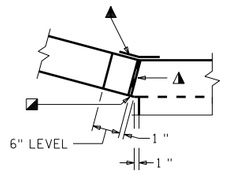


NAME PLATE LOCATION
WING 4

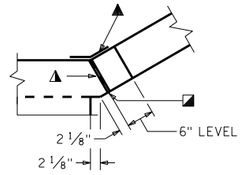


OPTIONAL CONSTRUCTION JOINT

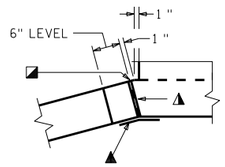
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



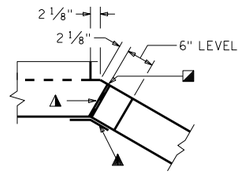
CORNER 1



CORNER 3



CORNER 2



CORNER 4

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1773

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

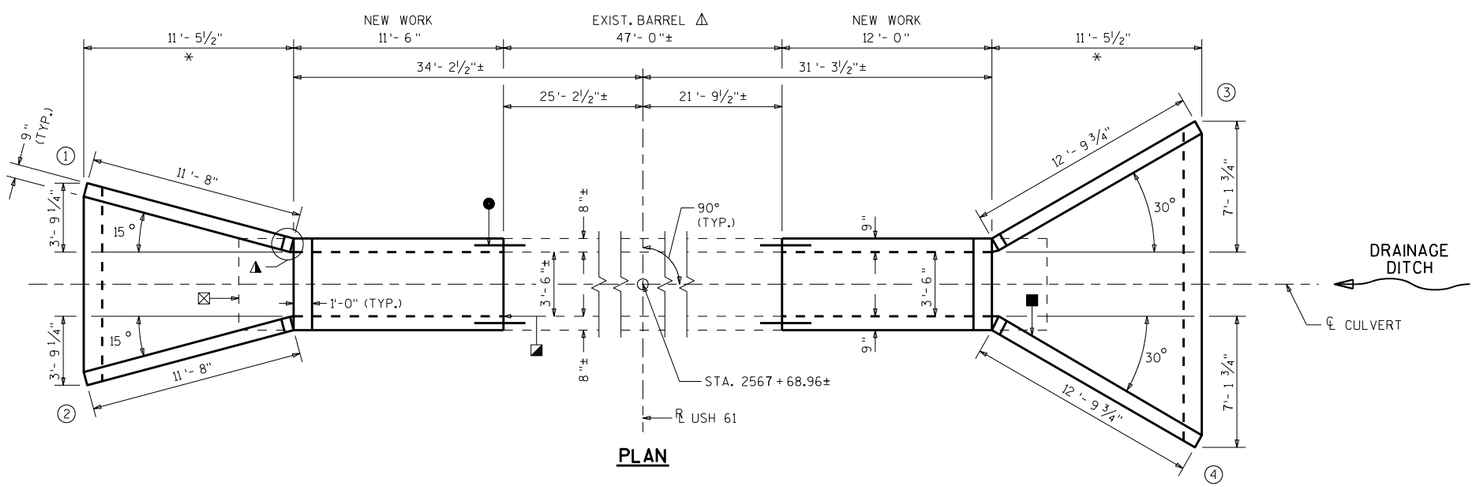
268

SCALE = 4

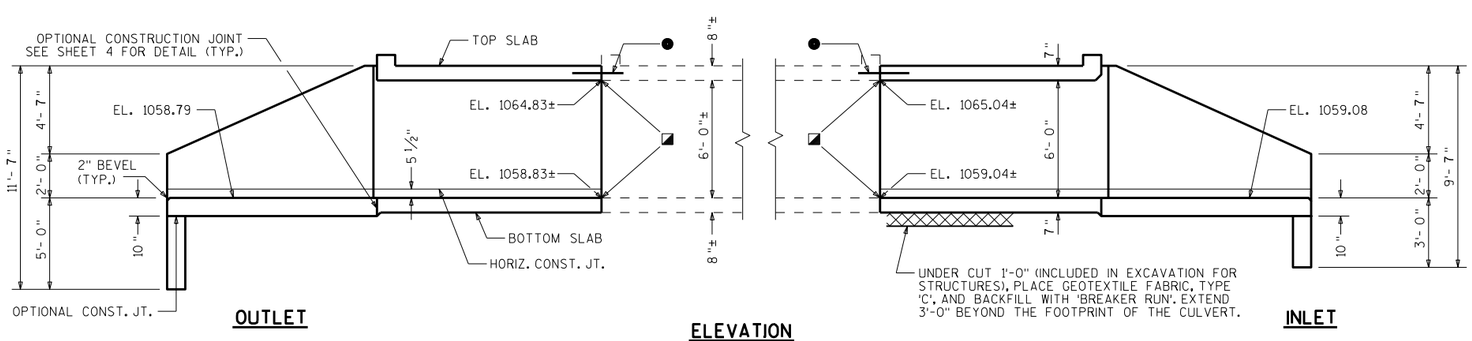
NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

STATE PROJECT NUMBER
1650-06-73

- ◭ SEE CORNER DETAILS SHEET 4
- ■ NAME PLATE LOCATION (SEE SHT 4)
- ⚠ EXIST. BARREL TO REMAIN IN PLACE
- ✳ BUILD APRON AND END OF BOX LEVEL
- ◪ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ☒ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)
- ◯ INDICATES WING NUMBER
- ● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).



PLAN



OUTLET **ELEVATION** **INLET**

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACT:
MICAH BROOKS (608) 266-5080
LAURA SHADEWALD (608) 267-9592

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 2.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES
CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

USH 61
A.D.T. = 5600 (2037)
R.D.S. = 55 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 2567+68.96	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-22-1774	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	414	TON
311.0115	BREAKER RUN	21	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	34	EACH
504.0100	CONCRETE MASONRY CULVERTS	30	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	2020	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1150	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
645.0105	GEOTEXTILE TYPE C	80	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-22-1774" SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE AN 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

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".

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.

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 11/16/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-22-1774

USH 61 OVER STORM DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
GRANT	FENNIMORE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MWB	DFD	MWB	DFD

LAYOUT

SHEET 1 OF 4

269

I.D. 1650-06-03J

DATE: NOV. 2016

SCALE = 4

8

8

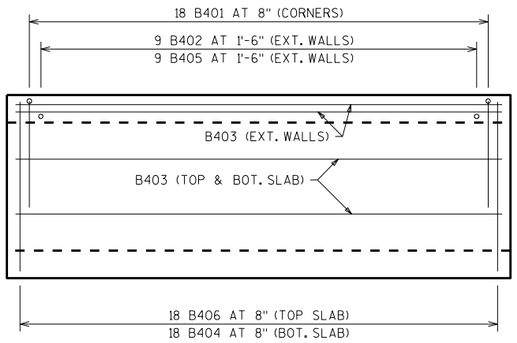
STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

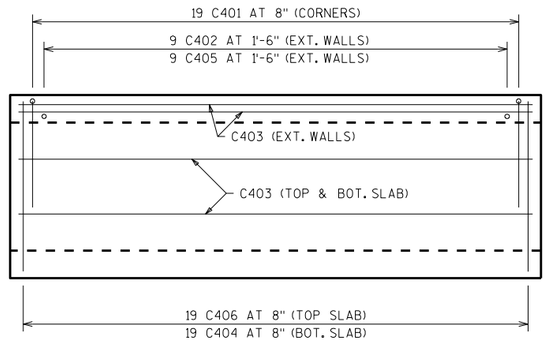
THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B401	72	7-0	3-0	NO	CORNERS
B402	18	1-11	NO	NO	WALLS-DOWELS VERT.
B403	24	11-0	NO	NO	TOP&BOTTOM SLAB & WALL
B404	18	4-8	NO	NO	BOTTOM SLAB TRANS.
B405	18	5-11	NO	NO	WALLS VERT.
B406	18	4-8	NO	NO	TOP SLAB TRANS.
B407	2	4-8	NO	NO	HEADERS HORIZ.
B308	7	2-5	YES	NO	HEADER STIRRUPS VERT.
● B509	17	2-6	NO	NO	VERT. CONST. JOINTS
C401	76	7-0	3-0	NO	CORNERS
C402	18	1-11	NO	NO	WALLS-DOWELS VERT.
C403	24	11-6	NO	NO	TOP&BOTTOM SLAB & WALL
C404	19	4-8	NO	NO	BOTTOM SLAB TRANS.
C405	18	5-11	NO	NO	WALLS VERT.
C406	19	4-8	NO	NO	TOP SLAB TRANS.
C407	2	4-8	NO	NO	HEADERS HORIZ.
C308	7	2-1	YES	NO	HEADER STIRRUPS VERT.
● C509	17	2-6	NO	NO	VERT. CONST. JOINTS



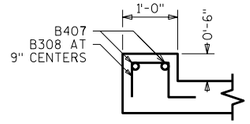
PLAN VIEW OF OUTLET EXTENSION

APRON AND HEADER ARE NOT SHOWN.

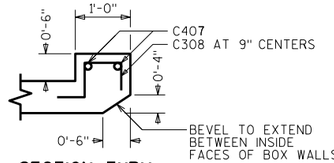


PLAN VIEW OF INLET EXTENSION

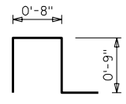
APRON AND HEADER ARE NOT SHOWN.



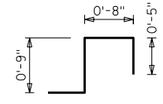
SECTION THRU TOP HEADER AT OUTLET



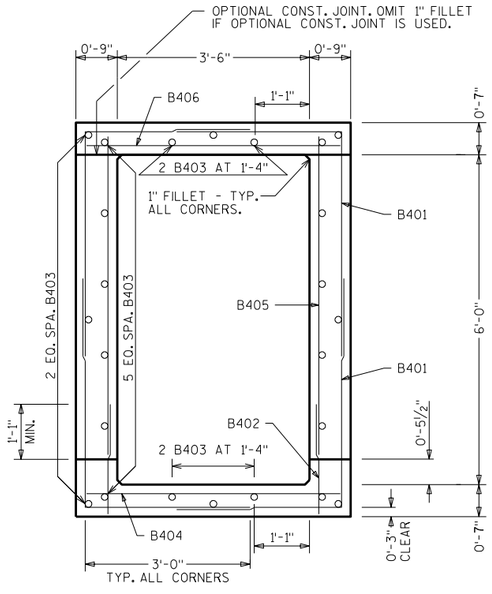
SECTION THRU TOP HEADER AT INLET



B308

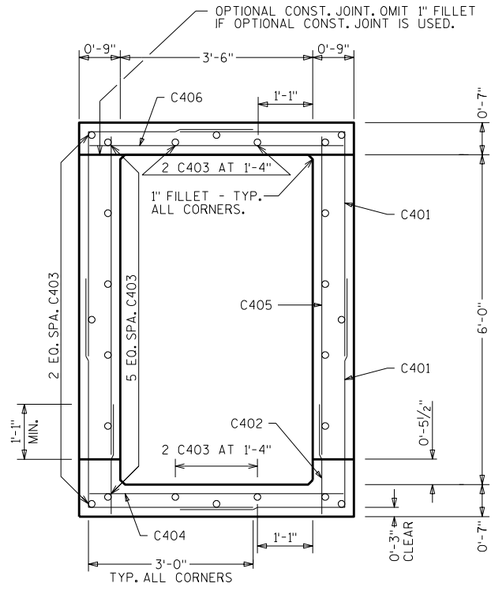


C308



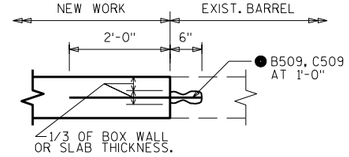
TYPICAL SECTION THRU OUTLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE B403 AS SHOWN.



TYPICAL SECTION THRU INLET EXTENSION

ALL LONGITUDINAL BARS NOT LABELED ARE C403 AS SHOWN.



VERTICAL CONSTRUCTION JOINT

TYP. WALLS AND TOP SLAB

● ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1774

DRAWN BY MWB | PLANS CK'D. DFD

BOX DETAILS

SHEET 2

270

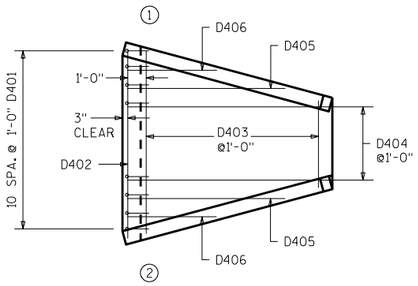
8

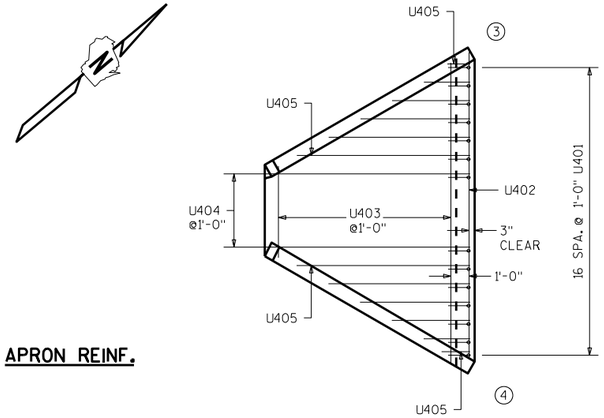
8

SCALE = 4

STATE PROJECT NUMBER

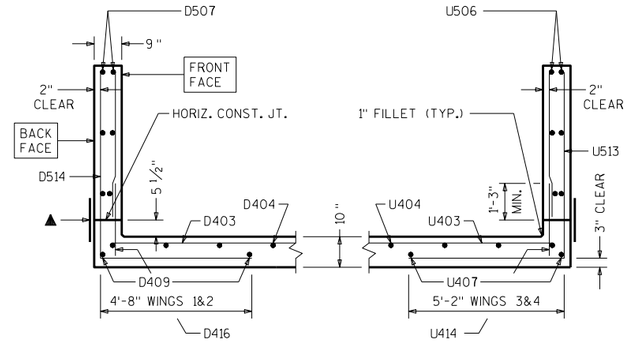
1650-06-73





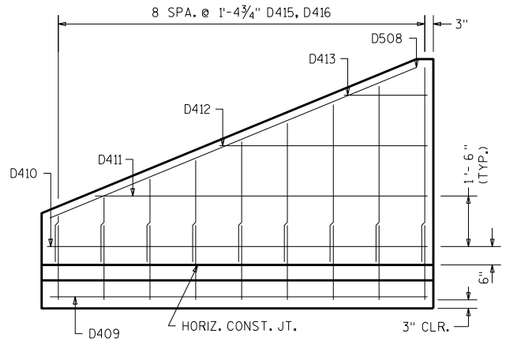
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



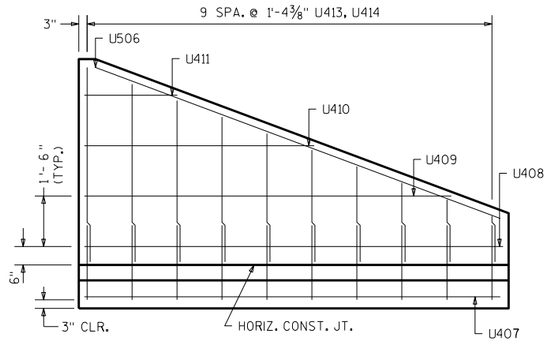
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



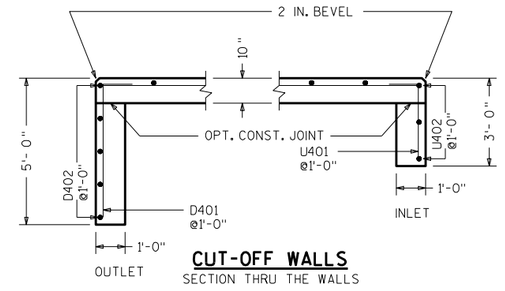
WING 1

SHOWING F.F. REINFORCEMENT, WING 2 SIMILAR



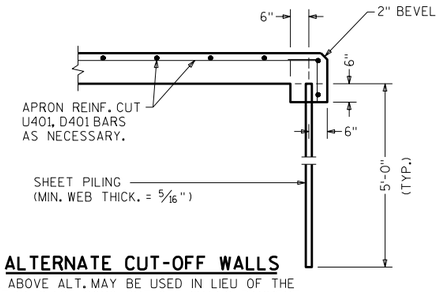
WING 3

SHOWING F.F. REINFORCEMENT, WING 4 SIMILAR



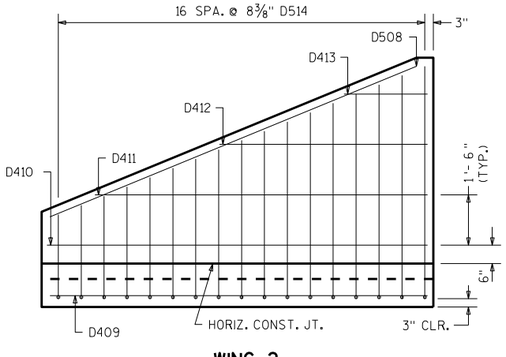
CUT-OFF WALLS

SECTION THRU THE WALLS



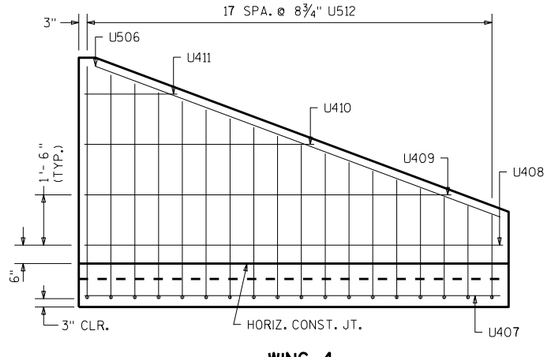
ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 2

SHOWING B.F. REINFORCEMENT, WING 1 SIMILAR



WING 4

SHOWING B.F. REINFORCEMENT, WING 3 SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1774

DRAWN BY MWB | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

271

8

8

SCALE = 4

STATE PROJECT NUMBER

1650-06-73

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

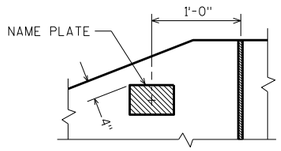
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
D401		11	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	10 - 2			OUTLET APRON AND CUTOFF WALL
D403		11	7 - 5		*	" APRON
D404		5	13 - 6			" APRON
D405		2	8 - 8			" APRON
D406		2	4 - 11			" APRON
D407		NOT	USED			
D508	X	4	12 - 2			WINGS 1 AND 2 -HORIZONTAL -BOTH FACES
D409	X	4	11 - 3			WINGS " -HORIZONTAL -APRON BOTT. SLAB
D410	X	4	11 - 3			WINGS " -HORIZONTAL - BOTH FACES
D411	X	4	10 - 0			WINGS " -HORIZONTAL - BOTH FACES
D412	X	4	6 - 4			WINGS " -HORIZONTAL - BOTH FACES
D413	X	4	2 - 8			WINGS " -HORIZONTAL - BOTH FACES
D514	X	34	8 - 9	4 - 8	*	WINGS " -VERTICAL - BACK FACE
D415	X	18	3 - 7		*	WINGS " -VERTICAL - FRONT FACE
D416	X	18	2 - 4			WINGS " -DOWELS - FRONT FACE
U401		17	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	16 - 8			INLET APRON AND CUTOFF WALL
U403		11	10 - 8		*	" APRON
U404		5	13 - 6			" APRON
U405		12	5 - 8		*	" APRON
U506	X	4	13 - 3			WINGS 3 AND 4 -HORIZONTAL -BOTH FACES
U407	X	4	12 - 4			WINGS " -HORIZONTAL -APRON BOTT. SLAB
U408	X	4	12 - 4			WINGS " -HORIZONTAL - BOTH FACES
U409	X	4	11 - 0			WINGS " -HORIZONTAL - BOTH FACES
U410	X	4	7 - 0			WINGS " -HORIZONTAL - BOTH FACES
U411	X	4	2 - 11			WINGS " -HORIZONTAL - BOTH FACES
U512	X	36	9 - 3	5 - 2	*	WINGS " -VERTICAL - BACK FACE
U413	X	20	3 - 7		*	WINGS " -VERTICAL - FRONT FACE
U414	X	20	2 - 4			WINGS " -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.

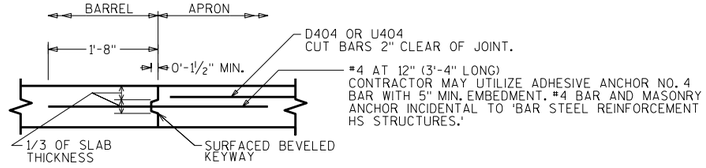
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 11	4 - 9 TO 10 - 1
D514	2 SERIES OF 17	6 - 0 TO 11 - 6
D415	2 SERIES OF 9	1 - 5 TO 5 - 11
U403	1 SERIES OF 11	4 - 10 TO 16 - 4
U405	2 SERIES OF 6	1 - 4 TO 10 - 0
U512	2 SERIES OF 18	6 - 6 TO 12 - 0
U413	2 SERIES OF 10	1 - 5 TO 5 - 11

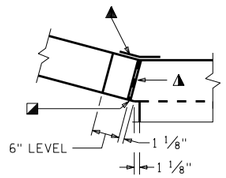


NAME PLATE LOCATION
WING 4

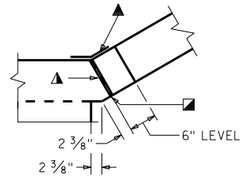


OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



CORNER 1

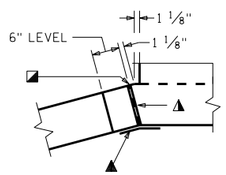


CORNER 3

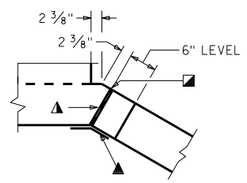
▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.



CORNER 2



CORNER 4

CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-22-1774

DRAWN BY MWB | PLANS CK'D. DFD

DETAILS

SHEET 4

272

SCALE = 4

8

8

PROJECT ID 1650-06-73

DIVISION 1 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2066+20 AH	206620	0.00	20.65	17.67	0.00	0	0	0	0	0	0	0	0	0
2067+00	206700	80.00	46.63	15.19	0.00	100	49	0	100	61	100	61	0	39
2068+00	206800	100.00	27.11	21.22	0.00	137	67	0	137	84	236	145	0	91
2069+00	206900	100.00	23.51	16.26	0.00	94	69	0	94	87	330	232	0	98
2069+50	206950	50.00	35.45	9.87	0.00	55	24	0	55	30	385	262	0	122
2070+00	207000	50.00	33.53	29.04	0.00	64	36	0	64	45	448	307	0	141
2071+00	207100	100.00	39.20	49.08	0.00	135	145	0	135	181	583	488	0	95
2072+00	207200	100.00	77.19	33.49	0.00	216	153	0	216	191	799	679	0	120
2072+10	207210	10.00	82.85	32.89	0.00	30	12	0	30	15	828	695	0	134
2073+00	207300	90.00	47.02	36.82	0.00	216	116	0	216	145	1045	840	0	205
2073+48	207348.493	48.49	44.07	43.51	0.00	82	72	0	82	90	1127	930	0	197
2074+00	207400	51.51	41.08	41.21	0.00	81	81	0	81	101	1208	1031	0	177
2074+32	207431.552	31.55	56.92	69.12	0.00	57	64	0	57	81	1265	1111	0	154
2074+34	207434	2.45	56.04	70.77	0.00	5	6	0	5	8	1270	1119	0	151
2075+00	207500	66.00	50.90	50.36	0.00	131	148	0	131	185	1401	1304	0	96
2076+00	207600	100.00	56.58	34.58	0.00	199	157	0	199	197	1600	1501	0	99
2076+60	207660	60.00	99.81	18.54	0.00	174	59	0	174	74	1774	1575	0	199
2077+00	207700	40.00	50.16	47.32	0.00	111	49	0	111	61	1885	1636	0	249
2078+00	207800	100.00	50.38	40.92	0.00	186	163	0	186	204	2071	1840	0	231
2079+00	207900	100.00	40.31	32.02	0.00	168	135	0	168	169	2239	2009	0	230
2080+00	208000	100.00	18.94	23.95	0.00	110	104	0	110	130	2349	2139	0	210
2081+00	208100	100.00	15.83	76.5	0.00	64	186	0	64	233	2413	2371	0	42
2081+65	208165	65.00	27.74	211.41	0.00	52	347	0	52	433	2465	2804	0	-339
2082+00	208200	35.00	27.07	56.9	0.00	36	174	0	36	217	2501	3022	0	-521
2083+00	208300	100.00	13.07	40.4	0.00	74	180	0	74	225	2575	3247	0	-672
2083+04	208304.02	4.02	12.75	41.5	0.00	2	6	0	2	8	2577	3254	0	-677
2084+00	208400	95.98	47.02	38.09	0.00	106	141	0	106	177	2683	3431	0	-748
2084+32	208432	32.00	43.36	196.32	0.00	54	139	0	54	174	2737	3605	0	-868
2085+00	208500	68.00	36.58	80.28	0.00	101	348	0	101	435	2838	4040	0	-1203
2086+00	208600	100.00	58.68	0	0.00	176	149	0	176	186	3014	4226	0	-1212
2087+00	208700	100.00	30.02	56.27	0.00	164	104	0	164	130	3178	4356	0	-1178
2088+00	208800	100.00	18.85	46.04	0.00	91	189	0	91	237	3269	4593	0	-1324
2089+00	208900	100.00	17.50	54.5	0.00	67	186	0	67	233	3336	4826	0	-1490
2089+85	208984.721	84.72	14.55	24.73	0.00	50	124	0	50	155	3386	4981	0	-1595
2090+00	209000	15.28	14.80	26.36	0.00	8	14	0	8	18	3395	4999	0	-1605
2091+00	209100	100.00	52.48	23.93	0.00	125	93	0	125	116	3519	5116	0	-1597
2091+13	209113.499	13.50	66.93	23.3	0.00	30	12	0	30	15	3549	5131	0	-1581
2092+00	209200	86.50	21.33	42.38	0.00	141	105	0	141	132	3691	5262	0	-1572
2093+00	209300	100.00	18.64	54.77	0.00	74	180	0	74	225	3765	5487	0	-1722
2094+00	209400	100.00	17.81	51.58	0.00	68	197	0	68	246	3832	5733	0	-1901
2094+81	209481.249	81.25	79.59	25.46	0.00	147	116	0	147	145	3979	5878	0	-1899
2095+00	209500	18.75	34.31	31.53	0.00	40	20	0	40	25	4018	5903	0	-1885
2096+00	209600	100.00	26.57	51.97	0.00	113	155	0	113	193	4131	6096	0	-1965
2096+50	209650	50.00	70.66	26.75	0.00	90	73	0	90	91	4221	6187	0	-1966
2097+00	209700	50.00	26.65	58.41	0.00	90	79	0	90	99	4311	6286	0	-1975
2098+00	209800	100.00	21.96	62.55	0.00	90	224	0	90	280	4401	6566	0	-2165
2099+00	209900	100.00	22.52	53.97	0.00	82	216	0	82	270	4483	6836	0	-2352
2099+50	209950	50.00	76.55	18.73	0.00	92	67	0	92	84	4575	6920	0	-2344
2100+00	210000	50.00	19.92	43.39	0.00	89	58	0	89	72	4664	6992	0	-2327
2101+00	210100	100.00	17.71	42.64	0.00	70	159	0	70	199	4734	7191	0	-2457
2102+00	210200	100.00	27.79	45.02	0.00	84	162	0	84	203	4818	7394	0	-2575
2103+00	210300	100.00	43.34	49.22	0.00	132	175	0	132	218	4950	7612	0	-2662
2103+67	210367.1	67.10	32.35	3.49	0.00	94	65	0	94	82	5044	7694	0	-2649
2103+90	210390	22.90	47.56	0	0.00	34	1	0	34	2	5078	7695	0	-2617
2104+00	210400	10.00	45.26	0.01	0.00	17	0	0	17	0	5095	7695	0	-2600
2105+00	210500	100.00	29.77	33.28	0.00	139	62	0	139	77	5234	7773	0	-2538
2105+70	210570	70.00	62.53	12.39	0.00	120	59	0	120	74	5354	7847	0	-2493
2106+00	210600	30.00	30.90	18.76	0.00	52	17	0	52	22	5406	7868	0	-2462

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73
DIVISION 1 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2107+00	210700	100.00	26.90	15.25	0.00	214	126	0	214	157	5620	8026	0	-2406
2108+00	210800	100.00	18.15	1.86	0.00	83	32	0	83	40	5703	8065	0	-2362
2109+00	210900	100.00	22.19	13.48	0.00	75	28	0	75	36	5778	8101	0	-2323
2110+00	211000	100.00	22.33	44.24	0.00	82	107	0	82	134	5860	8234	0	-2374
2111+00	211100	100.00	16.44	25.3	0.00	72	129	0	72	161	5932	8395	0	-2463
2111+50	211150	50.00	59.04	0	0.00	70	23	0	70	29	6002	8425	0	-2422
2112+00	211200	50.00	17.39	22.31	0.00	71	21	0	71	26	6073	8450	0	-2378
2113+00	211300	100.00	33.82	64.13	0.00	95	160	0	95	200	6168	8651	0	-2483
2114+00	211400	100.00	61.75	37.06	0.00	177	187	0	177	234	6345	8885	0	-2540
2115+00	211500	100.00	30.01	61.98	0.00	170	183	0	170	229	6515	9114	0	-2599
2116+00	211600	100.00	28.28	39.03	0.00	108	187	0	108	234	6623	9348	0	-2725
2117+00	211700	100.00	18.56	23.98	0.00	87	117	0	87	146	6709	9494	0	-2784
2117+76	211776.401	76.40	26.24	17.57	0.00	63	59	0	63	73	6773	9567	0	-2794
2118+00	211800	23.60	17.35	22.56	0.00	19	18	0	19	22	6792	9589	0	-2797
2119+00	211900	100.00	18.76	39.23	0.00	67	114	0	67	143	6859	9732	0	-2874
2120+00	212000	100.00	19.28	38.57	0.00	70	144	0	70	180	6929	9912	0	-2983
2121+00	212100	100.00	16.99	21.41	0.00	67	111	0	67	139	6996	10051	0	-3055
2121+50	212150	50.00	16.67	20.89	0.00	31	39	0	31	49	7027	10100	0	-3073
2122+00	212200	50.00	18.15	18.89	0.00	32	37	0	32	46	7060	10146	0	-3086
2123+00	212300	100.00	18.50	42.36	0.00	68	113	0	68	142	7128	10288	0	-3160
2124+00	212400	100.00	16.71	47.89	0.00	65	167	0	65	209	7193	10497	0	-3304
2125+00	212500	100.00	13.53	94.67	0.00	56	264	0	56	330	7249	10827	0	-3578
2126+00	212600	100.00	13.63	85.04	0.00	50	333	0	50	416	7299	11243	0	-3944
2126+22	212622.444	22.44	11.65	124.43	0.00	11	87	0	11	109	7310	11352	0	-4042
2127+00	212700	77.56	12.60	58.97	0.00	35	263	0	35	329	7344	11681	0	-4336
2127+25 BK	212725	25.00	15.76	41.9	0.00	13	47	0	13	58	7357	11739	0	-4382
						COLUMN TOTALS			7357	11739				

PROJECT ID 1650-06-73
DIVISION 2 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2150+80 AH	215080	0.00	15.53	17.08	0.00	0	0	0	0	0	0	0	0	0
2151+00	215100	20.00	16.20	18.55	0.00	12	13	0	12	16	12	16	0	-5
2152+00	215200	100.00	16.37	18.17	0.00	60	68	0	60	85	72	101	0	-29
2153+00	215300	100.00	33.09	5.19	0.00	92	43	0	92	54	164	156	0	8
2154+00	215400	100.00	32.27	27.42	0.00	121	60	0	121	75	285	231	0	54
2154+58	215458.2	58.20	86.68	19.16	0.00	128	50	0	128	63	413	294	0	119
2154+78	215477.572	19.37	95.85	2.11	0.00	65	8	0	65	10	478	303	0	175
2155+00	215500	22.43	34.18	15.4	0.00	54	7	0	54	9	532	312	0	220
2156+00	215600	100.00	32.74	48.89	0.00	124	119	0	124	149	656	461	0	195
2157+00	215700	100.00	38.16	30.99	0.00	131	148	0	131	185	788	646	0	141
2158+00	215800	100.00	61.47	29.41	0.00	185	112	0	185	140	972	786	0	186
2159+00	215900	100.00	89.43	20.66	0.00	279	93	0	279	116	1252	902	0	350
2160+00	216000	100.00	78.92	8.77	0.00	312	55	0	312	68	1563	970	0	593
2161+00	216100	100.00	59.20	17.36	0.00	256	48	0	256	60	1819	1030	0	789
2161+16	216116.21	16.21	45.60	22.13	0.00	31	12	0	31	15	1851	1045	0	805
2161+40	216139.984	23.77	66.24	20.05	0.00	49	19	0	49	23	1900	1069	0	831
2162+00	216200	60.02	42.96	44.08	0.00	121	71	0	121	89	2021	1158	0	864
2162+70	216269.93	69.93	41.12	4.32	0.00	109	63	0	109	78	2130	1236	0	894
2163+00	216300	30.07	37.33	19.19	0.00	44	13	0	44	16	2174	1252	0	921
2163+90	216389.749	89.75	71.85	79.8	0.00	181	165	0	181	206	2355	1458	0	897
2164+00	216400	10.25	84.44	84.83	0.00	30	31	0	30	39	2385	1497	0	888
2164+19	216418.997	19.00	84.30	54.5	0.00	59	49	0	59	61	2444	1558	0	886
2165+00	216500	81.00	28.48	33.66	0.00	169	132	0	169	165	2613	1724	0	890
2166+00	216600	100.00	36.04	21.05	0.00	119	101	0	119	127	2733	1850	0	883
2167+00	216700	100.00	33.33	36.84	0.00	128	107	0	128	134	2861	1984	0	877
2167+51	216751	51.00	33.05	85.6	0.00	63	116	0	63	145	2924	2129	0	795
2168+00	216800	49.00	45.55	44.85	0.00	71	118	0	71	148	2995	2277	0	719
2169+00	216900	100.00	52.18	77.81	0.00	181	227	0	181	284	3176	2561	0	616
2169+66	216965.932	65.93	45.75	0.6	0.00	120	96	0	120	120	3296	2680	0	616
2170+00	217000	34.07	35.08	46.37	0.00	51	30	0	51	37	3347	2717	0	629
2171+00	217100	100.00	61.20	17.43	0.00	178	118	0	178	148	3525	2865	0	660
2172+00	217200	100.00	105.84	10.31	0.00	309	51	0	309	64	3835	2929	0	905
2173+00	217300	100.00	118.63	14.73	0.00	416	46	0	416	58	4250	2987	0	1263
2174+00	217400	100.00	113.21	25.03	0.00	429	74	0	429	92	4680	3079	0	1600
2175+00	217500	100.00	83.09	38.43	0.00	364	118	0	364	147	5043	3226	0	1817
2176+00	217600	100.00	89.45	26.03	0.00	320	119	0	320	149	5363	3375	0	1987
2177+00	217700	100.00	83.71	18.33	0.00	321	82	0	321	103	5683	3478	0	2205
2178+00	217800	100.00	61.03	16.46	0.00	268	64	0	268	81	5951	3559	0	2393
2179+00	217900	100.00	54.60	18.94	0.00	214	66	0	214	82	6165	3641	0	2525
2180+00	218000	100.00	40.82	24.56	0.00	177	81	0	177	101	6342	3741	0	2601
2181+00	218100	100.00	35.35	37.68	0.00	141	115	0	141	144	6483	3885	0	2598
2181+74	218174.27	74.27	28.90	33.01	0.00	88	97	0	88	122	6572	4007	0	2565
2182+00	218200	25.73	30.24	30.18	0.00	28	30	0	28	38	6600	4045	0	2555
2183+00	218300	100.00	41.97	40.56	0.00	134	131	0	134	164	6733	4208	0	2525
2184+00	218400	100.00	48.45	34.58	0.00	167	139	0	167	174	6901	4382	0	2519
2185+00	218500	100.00	45.48	48.15	0.00	174	153	0	174	192	7075	4574	0	2501
2186+00	218600	100.00	42.05	42.72	0.00	162	168	0	162	210	7237	4784	0	2453
2187+00	218700	100.00	49.58	24.09	0.00	170	124	0	170	155	7407	4939	0	2468
2188+00	218800	100.00	54.88	4.76	0.00	193	53	0	193	67	7600	5006	0	2595
2189+00	218900	100.00	59.72	5.95	0.00	212	20	0	212	25	7812	5030	0	2782
2190+00	219000	100.00	84.35	5.29	0.00	267	21	0	267	26	8079	5056	0	3023
2191+00	219100	100.00	121.55	2.49	0.00	381	14	0	381	18	8460	5074	0	3386
2192+00	219200	100.00	113.63	5.79	0.00	436	15	0	436	19	8896	5093	0	3802
2193+00	219300	100.00	70.21	14.88	0.00	340	38	0	340	48	9236	5141	0	4095
2194+00	219400	100.00	70.34	0	0.00	260	28	0	260	34	9497	5176	0	4321
2194+30	219430	30.00	81.94	0	0.00	85	0	0	85	0	9581	5176	0	4405
2194+44	219444.17	14.17	54.11	0	0.00	36	0	0	36	0	9617	5176	0	4441
2195+00	219500	55.83	31.15	29.78	0.00	88	31	0	88	38	9705	5214	0	4491

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73
DIVISION 2 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2196+00	219600	100.00	32.88	77.01	0.00	237	396	0	237	494	9942	5709	0	4234
2197+00	219700	100.00	36.94	49.45	0.00	129	234	0	129	293	10071	6001	0	4070
2197+57	219756.93	56.93	70.90	15.2	0.00	114	68	0	114	85	10185	6087	0	4099
2198+00	219800	43.07	44.33	21.82	0.00	92	30	0	92	37	10277	6124	0	4154
2199+00	219900	100.00	40.07	31.41	0.00	156	99	0	156	123	10433	6247	0	4187
2200+00	220000	100.00	36.47	19.89	0.00	142	95	0	142	119	10575	6365	0	4210
2201+00	220100	100.00	33.28	38.91	0.00	129	109	0	129	136	10704	6502	0	4203
2202+00	220200	100.00	30.12	84.02	0.00	117	228	0	117	285	10822	6786	0	4036
2203+00	220300	100.00	33.17	95.02	0.00	117	332	0	117	414	10939	7201	0	3738
2204+00	220400	100.00	30.26	117.93	0.00	117	394	0	117	493	11056	7694	0	3363
2205+00	220500	100.00	34.57	141.34	0.00	120	480	0	120	600	11176	8294	0	2883
2206+00	220600	100.00	33.37	208.02	0.00	126	647	0	126	809	11302	9102	0	2200
2207+00	220700	100.00	32.65	219.38	0.00	122	791	0	122	989	11425	10092	0	1333
2207+86	220786.185	86.18	93.09	219.55	0.00	201	701	0	201	876	11625	10967	0	658
2207+91	220791.289	5.10	40.18	199.27	0.00	13	40	0	13	49	11638	11017	0	621
2208+00	220800	8.71	56.54	171.86	0.00	16	60	0	16	75	11653	11092	0	562
2209+00	220900	100.00	35.75	154.15	0.00	171	604	0	171	755	11824	11846	0	-22
2210+00	221000	100.00	28.13	183.13	0.00	118	625	0	118	781	11943	12627	0	-685
2211+00	221100	100.00	31.39	137.84	0.00	110	594	0	110	743	12053	13370	0	-1317
2212+00	221200	100.00	42.86	56.99	0.00	138	361	0	138	451	12190	13821	0	-1631
2213+00	221300	100.00	47.22	8.18	0.00	167	121	0	167	151	12357	13972	0	-1615
2213+43	221342.86	42.86	81.44	3.4	0.00	102	9	0	102	11	12459	13983	0	-1524
2214+00	221400	57.14	65.12	7.77	0.00	155	12	0	155	15	12614	13998	0	-1384
2215+00	221500	100.00	38.95	22.87	0.00	193	57	0	193	71	12807	14069	0	-1262
2216+00	221600	100.00	29.85	162.39	0.00	127	343	0	127	429	12934	14498	0	-1564
2217+00	221700	100.00	30.78	648.74	0.00	112	1502	0	112	1878	13047	16376	0	-3329
2217+50	221750	50.00	30.71	1265.42	0.00	57	1772	0	57	2215	13104	18591	0	-5487
2218+00	221800	50.00	31.78	746.98	0.00	58	1863	0	58	2329	13162	20920	0	-7759
2219+00	221900	100.00	32.19	288.79	0.00	118	1918	0	118	2398	13280	23318	0	-10038
2220+00	222000	100.00	35.65	92.43	0.00	126	706	0	126	882	13406	24200	0	-10795
2221+00	222100	100.00	40.23	34.92	0.00	141	236	0	141	295	13546	24495	0	-10949
2222+00	222200	100.00	56.47	7.82	0.00	179	79	0	179	99	13725	24594	0	-10869
2222+94	222293.71	93.71	65.75	1.27	0.00	212	16	0	212	20	13937	24614	0	-10676
2223+00	222300	6.29	65.95	1.34	0.00	15	0	0	15	0	13953	24614	0	-10661
2223+94	222394.41	94.41	126.15	1.26	0.00	336	5	0	336	6	14289	24620	0	-10331
2224+00	222400	5.59	132.63	1.06	0.00	27	0	0	27	0	14315	24620	0	-10305
2225+00	222500	100.00	182.52	1.32	0.00	584	4	0	584	6	14899	24626	0	-9727
2226+00	222600	100.00	184.53	2.24	0.00	680	7	0	680	8	15579	24634	0	-9055
2227+00	222700	100.00	310.34	2.08	0.00	916	8	0	916	10	16495	24644	0	-8149
2228+00	222800	100.00	272.39	4.47	0.00	1079	12	0	1079	15	17574	24659	0	-7085
2229+00	222900	100.00	179.60	6.67	0.00	837	21	0	837	26	18411	24685	0	-6274
2230+00	223000	100.00	49.04	14.33	0.00	423	39	0	423	49	18835	24733	0	-5899
2230+37	223036.986	36.99	119.32	20.3	0.00	115	24	0	115	30	18950	24763	0	-5813
2230+82	223081.578	44.59	69.09	8.12	0.00	156	23	0	156	29	19106	24792	0	-5687
2231+00	223100	18.42	47.39	36.33	0.00	40	15	0	40	19	19145	24811	0	-5666
2231+07	223106.769	6.77	50.50	61.5	0.00	12	12	0	12	15	19158	24827	0	-5669
2231+22	223121.939	15.17	35.62	136.42	0.00	24	56	0	24	70	19182	24896	0	-5714
2231+76	223175.943	54.00	35.43	301.22	0.00	71	438	0	71	547	19253	25443	0	-6191
2232+00	223200	24.06	34.04	320.19	0.00	31	277	0	31	346	19284	25789	0	-6506
2232+78	223277.749	77.75	32.22	410.36	0.00	95	1052	0	95	1315	19379	27104	0	-7725
2233+00	223300	22.25	31.26	359.45	0.00	26	317	0	26	397	19405	27501	0	-8095
2234+00 BK	223400	100.00	22.69	77.67	0.00	100	809	0	100	1012	19505	28513	0	-9007
								COLUMN TOTALS	19505	28513				

PROJECT ID 1650-06-73
DIVISION 3 - USH 61

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2234+00	AH	223400	0.00	22.69	77.67	0.00	0	0	0	0	0	0	0	0	0
2235+00		223500	100.00	22.63	43.83	0.00	84	225	0	84	281	84	281	0	-197
2235+41		223541.285	41.29	20.82	3.05	0.00	33	36	0	33	45	117	326	0	-209
2236+00		223600	58.71	23.96	52.53	0.00	49	60	0	49	76	166	402	0	-236
2237+00		223700	100.00	24.84	14.99	0.00	90	125	0	90	156	256	558	0	-302
2238+00		223800	100.00	33.32	19.89	0.00	108	65	0	108	81	364	639	0	-275
2239+00		223900	100.00	13.47	28.35	0.00	87	89	0	87	112	451	750	0	-300
2239+47		223946.69	46.69	15.65	106.01	0.00	25	116	0	25	145	476	896	0	-420
2240+00		224000	53.31	16.73	200.43	0.00	32	303	0	32	378	508	1274	0	-766
2240+44		224043.954	43.95	20.02	718.98	0.00	30	748	0	30	935	538	2209	0	-1672
2240+62		224061.934	17.98	28.45	587.54	0.00	16	435	0	16	544	554	2753	0	-2199
2241+00		224100	38.07	26.22	372.55	0.00	39	677	0	39	846	592	3599	0	-3007
2242+00		224200	100.00	19.00	113.71	0.00	84	900	0	84	1126	676	4724	0	-4048
2243+00		224300	100.00	18.99	49.43	0.00	70	302	0	70	378	746	5102	0	-4356
2243+76		224376.023	76.02	38.01	9.46	0.00	80	83	0	80	104	827	5206	0	-4379
2244+00		224400	23.98	16.08	15.44	0.00	24	11	0	24	14	851	5220	0	-4369
2244+59		224458.697	58.70	35.21	8.99	0.00	56	27	0	56	33	906	5253	0	-4346
2245+00		224500	41.30	51.59	12.36	0.00	66	16	0	66	20	973	5273	0	-4300
2246+00		224600	100.00	105.51	20.88	0.00	291	62	0	291	77	1264	5350	0	-4086
2247+00		224700	100.00	55.13	24.14	0.00	297	83	0	297	104	1561	5454	0	-3893
2248+00		224800	100.00	21.79	29.16	0.00	142	99	0	142	123	1704	5578	0	-3874
2249+00		224900	100.00	15.33	133.01	0.00	69	300	0	69	375	1772	5953	0	-4181
2249+54		224953.845	53.85	23.31	153.07	0.00	39	285	0	39	357	1811	6310	0	-4499
2249+82		224982.174	28.33	17.74	217.7	0.00	22	195	0	22	243	1832	6553	0	-4720
2249+91		224990.504	8.33	18.54	239.07	0.00	6	70	0	6	88	1838	6641	0	-4803
2250+00		225000	9.50	19.71	244.07	0.00	7	85	0	7	106	1845	6747	0	-4902
2251+00		225100	100.00	20.09	257.35	0.00	74	929	0	74	1161	1918	7908	0	-5989
2252+00		225200	100.00	15.70	0	0.00	66	477	0	66	596	1985	8504	0	-6519
2252+16		225215.873	15.87	20.64	0	0.00	11	0	0	11	0	1995	8504	0	-6508
2252+37		225236.984	21.11	21.19	0	0.00	16	0	0	16	0	2012	8504	0	-6492
2253+00		225300	63.02	15.43	0	0.00	43	0	0	43	0	2055	8504	0	-6449
2254+00		225400	100.00	30.30	11.68	0.00	85	22	0	85	27	2139	8531	0	-6391
2255+00		225500	100.00	54.31	10.87	0.00	157	42	0	157	52	2296	8583	0	-6287
2256+00		225600	100.00	21.20	14.95	0.00	140	48	0	140	60	2436	8643	0	-6207
2257+00		225700	100.00	17.36	32.3	0.00	71	88	0	71	109	2507	8752	0	-6245
2258+00	BK	225800	100.00	27.86	79.04	0.00	84	206	0	84	258	2591	9010	0	-6419

COLUMN TOTALS	2591	9010

9

9

PROJECT ID 1650-06-73

DIVISION 4 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2258+00 AH	225800	0.00	27.86	79.04	0.00	0	0	0	0	0	0	0	0	0
2259+00	225900	100.00	29.40	186.21	0.00	106	491	0	106	614	106	614	0	-508
2259+82	225981.946	81.95	36.72	309.95	0.00	100	753	0	100	941	206	1555	0	-1349
2259+90	225989.824	7.88	34.32	324.05	0.00	10	92	0	10	116	217	1671	0	-1454
2260+00	226000	10.18	28.55	310.05	0.00	12	119	0	12	149	229	1820	0	-1592
2261+00	226100	100.00	33.08	216.51	0.00	114	975	0	114	1219	343	3039	0	-2696
2262+00	226200	100.00	58.44	91.37	0.00	169	570	0	169	713	512	3752	0	-3240
2263+00	226300	100.00	126.68	22.68	0.00	343	211	0	343	264	855	4016	0	-3161
2263+19	226318.95	18.95	149.93	0.41	0.00	97	8	0	97	10	952	4026	0	-3074
2263+27	226327.249	8.30	149.58	0.04	0.00	46	0	0	46	0	998	4026	0	-3028
2264+00	226400	72.75	186.25	16.78	0.00	452	23	0	452	28	1451	4054	0	-2604
2265+00	226500	100.00	189.23	16.48	0.00	695	62	0	695	77	2146	4131	0	-1985
2266+00	226600	100.00	150.34	17.93	0.00	629	64	0	629	80	2775	4211	0	-1436
2267+00	226700	100.00	81.84	20.7	0.00	430	72	0	430	89	3205	4300	0	-1096
2268+00	226800	100.00	47.08	35.1	0.00	239	103	0	239	129	3443	4430	0	-986
2269+00	226900	100.00	46.40	54.66	0.00	173	166	0	173	208	3617	4637	0	-1021
2270+00	227000	100.00	45.35	44.88	0.00	170	184	0	170	230	3786	4868	0	-1081
2271+00	227100	100.00	47.27	30.43	0.00	172	139	0	172	174	3958	5042	0	-1084
2272+00	227200	100.00	55.69	17.47	0.00	191	89	0	191	111	4149	5153	0	-1004
2273+00	227300	100.00	47.14	7.71	0.00	190	47	0	190	58	4339	5211	0	-872
2274+00	227400	100.00	59.59	5.39	0.00	198	24	0	198	30	4537	5242	0	-705
2274+35	227434.95	34.95	50.06	2.14	0.00	71	5	0	71	6	4608	5248	0	-640
2274+59	227459.163	24.21	48.32	0.9	0.00	44	1	0	44	2	4652	5249	0	-598
2275+00	227500	40.84	38.09	12.66	0.00	65	10	0	65	13	4717	5262	0	-545
2276+00	227600	100.00	33.08	85.06	0.00	132	181	0	132	226	4849	5488	0	-639
2276+39	227639.41	39.41	33.60	118.15	0.00	49	148	0	49	185	4898	5674	0	-776
2277+00	227700	60.59	36.61	149.66	0.00	79	300	0	79	376	4976	6049	0	-1073
2278+00	227800	100.00	35.71	135.26	0.00	134	528	0	134	660	5110	6709	0	-1599
2279+00	227900	100.00	35.79	159.74	0.00	132	546	0	132	683	5243	7392	0	-2149
2280+00	228000	100.00	35.48	170.45	0.00	132	611	0	132	764	5375	8156	0	-2781
2281+00	228100	100.00	33.30	113.18	0.00	127	525	0	127	657	5502	8813	0	-3311
2282+00	228200	100.00	46.94	42.55	0.00	149	288	0	149	360	5651	9173	0	-3522
2283+00	228300	100.00	69.16	46	0.00	215	164	0	215	205	5866	9378	0	-3512
2284+00	228400	100.00	57.21	50.13	0.00	234	178	0	234	223	6100	9601	0	-3501
2285+00	228500	100.00	35.54	91.2	0.00	172	262	0	172	327	6271	9928	0	-3656
2286+00	228600	100.00	40.96	129.93	0.00	142	410	0	142	512	6413	10440	0	-4027
2286+85	228684.849	84.85	32.06	232.71	0.00	115	570	0	115	712	6528	11152	0	-4624
2287+00	228700	15.15	31.83	213.31	0.00	18	125	0	18	156	6546	11308	0	-4763
2288+00	228800	100.00	22.83	8.2	0.00	101	410	0	101	513	6647	11821	0	-5174
2289+00	228900	100.00	32.22	47.18	0.00	102	103	0	102	128	6749	11949	0	-5200
2289+40	228940	40.00	86.00	26.76	0.00	88	55	0	88	68	6836	12018	0	-5181
2290+00	229000	60.00	32.53	11.81	0.00	132	43	0	132	54	6968	12071	0	-5103
2291+00	229100	100.00	29.68	11.26	0.00	115	43	0	115	53	7083	12125	0	-5041
2292+00	229200	100.00	30.31	6.81	0.00	111	33	0	111	42	7194	12167	0	-4972
2293+00	229300	100.00	40.34	7.4	0.00	131	26	0	131	33	7325	12199	0	-4874
2294+00	229400	100.00	33.30	11.88	0.00	136	36	0	136	45	7462	12244	0	-4782
2295+00	229500	100.00	32.23	12.82	0.00	121	46	0	121	57	7583	12301	0	-4718
2296+00	229600	100.00	27.22	0.7	0.00	110	25	0	110	31	7693	12333	0	-4639
2296+21	229620.907	20.91	32.63	0.94	0.00	23	1	0	23	1	7716	12333	0	-4617
2297+00	229700	79.09	29.24	5.38	0.00	91	9	0	91	12	7807	12345	0	-4538
2298+00	229800	100.00	60.36	8.14	0.00	166	25	0	166	31	7973	12376	0	-4403
2298+60	229859.886	59.89	62.08	10.48	0.00	136	21	0	136	26	8109	12402	0	-4293
2299+00	229900	40.11	65.22	10.95	0.00	95	16	0	95	20	8203	12422	0	-4219
2300+00	230000	100.00	61.88	31.52	0.00	235	79	0	235	98	8439	12520	0	-4082
2300+83	230083.22	83.22	96.01	5.66	0.00	243	57	0	243	72	8682	12592	0	-3910
2301+00	230100	16.78	66.29	17.99	0.00	50	7	0	50	9	8732	12601	0	-3869
2302+00	230200	100.00	34.13	59.9	0.00	186	144	0	186	180	8918	12781	0	-3863
2303+00	230300	100.00	33.05	154.95	0.00	124	398	0	124	497	9043	13279	0	-4236

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73
DIVISION 4 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2304+00	230400	100.00	33.42	198.37	0.00	246	1309	0	246	1636	9289	14914	0	-5626
2305+00	230500	100.00	35.99	208.77	0.00	129	754	0	129	942	9417	15857	0	-6439
2305+83	230583.406	83.41	166.50	244.82	0.00	313	701	0	313	876	9730	16733	0	-7002
2306+00	230600	16.59	49.78	110.1	0.00	66	109	0	66	136	9797	16869	0	-7072
2307+00	230700	100.00	120.02	20.91	0.00	314	243	0	314	303	10111	17172	0	-7061
2308+00	230800	100.00	157.62	3.56	0.00	514	45	0	514	57	10625	17229	0	-6604
2309+00	230900	100.00	170.38	7.37	0.00	607	20	0	607	25	11233	17254	0	-6021
2310+00	231000	100.00	200.45	9.15	0.00	687	31	0	687	38	11919	17292	0	-5373
2311+00	231100	100.00	246.52	6.45	0.00	828	29	0	828	36	12747	17328	0	-4581
2311+50	231150	50.00	206.61	3.85	0.00	420	10	0	420	12	13167	17340	0	-4174
2311+72	231172.094	22.09	87.30	0.53	0.00	120	2	0	120	2	13287	17343	0	-4056
2313+00	231300	127.91	122.59	12.46	0.00	497	31	0	497	38	13784	17381	0	-3597
2314+00	231400	100.00	166.21	15.17	0.00	535	51	0	535	64	14319	17445	0	-3126
2315+00	231500	100.00	192.21	12.91	0.00	664	52	0	664	65	14983	17510	0	-2527
2316+00	231600	100.00	126.34	16.74	0.00	590	55	0	590	69	15573	17579	0	-2006
2317+00	231700	100.00	72.44	11.18	0.00	368	52	0	368	65	15941	17643	0	-1703
2318+00	231800	100.00	42.30	14.62	0.00	212	48	0	212	60	16153	17703	0	-1550
2319+00	231900	100.00	37.15	96.23	0.00	147	205	0	147	257	16300	17960	0	-1659
2320+00	232000	100.00	33.74	179.69	0.00	131	511	0	131	639	16432	18598	0	-2167
2320+77	232076.735	76.73	46.44	232.15	0.00	114	585	0	114	732	16545	19330	0	-2784
2321+00	232100	23.27	33.45	195.55	0.00	34	184	0	34	230	16580	19560	0	-2980
2321+80	232180.145	80.14	112.70	662.63	0.00	217	1274	0	217	1592	16797	21152	0	-4356
2322+00	232200	19.86	130.35	580.56	0.00	89	457	0	89	571	16886	21724	0	-4838
2323+00	232300	100.00	48.82	12.01	0.00	332	1097	0	332	1372	17218	23095	0	-5877
2323+44	232343.782	43.78	44.94	8.02	0.00	76	16	0	76	20	17294	23116	0	-5822
2324+00	232400	56.22	39.07	16.02	0.00	87	25	0	87	31	17381	23147	0	-5766
2325+00	232500	100.00	40.02	9.68	0.00	146	48	0	146	59	17528	23206	0	-5679
2326+00	232600	100.00	39.54	11.51	0.00	147	39	0	147	49	17675	23256	0	-5580
2327+00	232700	100.00	37.43	6.71	0.00	143	34	0	143	42	17818	23298	0	-5480
2328+00	232800	100.00	189.82	6.78	0.00	421	25	0	421	31	18239	23329	0	-5090
2329+00	232900	100.00	167.10	2.46	0.00	661	17	0	661	21	18900	23350	0	-4451
2330+00	233000	100.00	96.68	0.66	0.00	488	6	0	488	7	19388	23358	0	-3970
2331+00	233100	100.00	33.06	184.27	0.00	240	342	0	240	428	19628	23786	0	-4157
2332+00	233200	100.00	32.69	284.18	0.00	122	868	0	122	1084	19750	24870	0	-5120
2332+81	233280.99	80.99	49.29	453.38	0.00	123	1106	0	123	1383	19873	26253	0	-6380
2333+00	233300	19.01	33.03	437.41	0.00	29	314	0	29	392	19902	26645	0	-6743
2333+23	233323.056	23.06	35.35	477.73	0.00	29	391	0	29	488	19931	27133	0	-7202
2334+00	233400	76.94	92.56	116.66	0.00	182	847	0	182	1059	20113	28192	0	-8078
2335+00	233500	100.00	101.79	44.44	0.00	360	298	0	360	373	20473	28565	0	-8091
2336+00	233600	100.00	120.91	32.28	0.00	412	142	0	412	178	20886	28742	0	-7857
2337+00	233700	100.00	211.95	27.39	0.00	616	111	0	616	138	21502	28880	0	-7378
2338+00	233800	100.00	348.26	18.15	0.00	1037	84	0	1037	105	22540	28986	0	-6446
2339+00	233900	100.00	446.92	13.12	0.00	1473	58	0	1473	72	24012	29058	0	-5046
2340+00	234000	100.00	144.46	29.74	0.00	1095	79	0	1095	99	25107	29157	0	-4050
2341+00	234100	100.00	161.71	33.84	0.00	567	118	0	567	147	25674	29305	0	-3630
2342+00	234200	100.00	149.87	35.23	0.00	577	128	0	577	160	26251	29465	0	-3213
2343+00	234300	100.00	36.49	44.42	0.00	345	148	0	345	184	26596	29649	0	-3053
2344+00	234400	100.00	28.18	42.41	0.00	120	161	0	120	201	26716	29850	0	-3134
2344+20	234420.274	20.27	41.97	10.84	0.00	26	20	0	26	25	26742	29875	0	-3132
2345+00	234500	79.73	25.69	51.3	0.00	100	92	0	100	115	26842	29990	0	-3147
2346+00	234600	100.00	13.87	53.52	0.00	73	194	0	73	243	26916	30232	0	-3317
2346+89	234689.415	89.42	16.10	32.8	0.00	50	143	0	50	179	26965	30411	0	-3446
2347+00 BK	234700	10.58	12.81	27.75	0.00	6	12	0	6	15	26971	30426	0	-3455
									COLUMN TOTALS		26971	30426		

PROJECT ID 1650-06-73

DIVISION 5- USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2347+00 AH	234700	0.00	12.81	27.75	0.00	0	0	0	0	0	0	0	0	0
2348+00	234800	100.00	13.95	34.86	0.00	50	116	0	50	145	50	145	0	-95
2349+00	234900	100.00	16.42	98.5	0.00	56	247	0	56	309	106	454	0	-348
2349+04	234903.6	3.60	17.21	98.57	0.00	2	13	0	2	16	108	470	0	-362
2349+29	234928.605	25.01	19.77	79.56	0.00	17	82	0	17	103	125	573	0	-448
2349+54	234953.595	24.99	19.79	66.89	0.00	18	68	0	18	85	143	658	0	-514
2349+71	234971.209	17.61	20.12	59.45	0.00	13	41	0	13	52	156	709	0	-553
2349+96	234996.202	24.99	19.57	49.03	0.00	18	50	0	18	63	175	772	0	-597
2350+00	235000	3.80	19.95	47.14	0.00	3	7	0	3	8	178	781	0	-603
2350+21	235021.209	21.21	22.57	40.42	0.00	17	34	0	17	43	194	824	0	-629
2351+00	235100	78.79	19.03	299.68	0.00	61	496	0	61	620	255	1444	0	-1189
2352+00	235200	100.00	16.82	44.35	0.00	66	637	0	66	796	321	2240	0	-1919
2352+55	235255.21	55.21	20.05	37.76	0.00	38	84	0	38	105	359	2345	0	-1986
2353+00	235300	44.79	11.96	26.35	0.00	27	53	0	27	66	386	2412	0	-2026
2354+00	235400	100.00	18.27	84.26	0.00	56	205	0	56	256	442	2668	0	-2226
2355+00	235500	100.00	18.09	80.44	0.00	67	305	0	67	381	509	3049	0	-2540
2356+00	235600	100.00	18.62	80.49	0.00	68	298	0	68	373	577	3421	0	-2845
2357+00	235700	100.00	13.77	91.58	0.00	60	319	0	60	398	637	3820	0	-3183
2358+00	235800	100.00	16.53	92.47	0.00	56	341	0	56	426	693	4246	0	-3553
2358+62	235862.316	62.32	17.24	38.87	0.00	39	152	0	39	189	732	4435	0	-3703
2359+00	235900	37.68	17.55	46.52	0.00	24	60	0	24	74	756	4510	0	-3753
2360+00	236000	100.00	16.21	40.87	0.00	63	162	0	63	202	819	4712	0	-3893
2360+76	236076.17	76.17	16.55	52.58	0.00	46	132	0	46	165	865	4877	0	-4012
2360+79	236079.431	3.26	16.45	55.88	0.00	2	7	0	2	8	867	4885	0	-4018
2361+00	236100	20.57	16.03	24.61	0.00	12	31	0	12	38	879	4923	0	-4044
2362+00	236200	100.00	48.38	20.33	0.00	119	83	0	119	104	999	5027	0	-4029
2363+00	236300	100.00	171.04	25.64	0.00	406	85	0	406	106	1405	5134	0	-3729
2363+90	236389.501	89.50	15.35	46.93	0.00	309	120	0	309	150	1714	5284	0	-3570
2364+00	236400	10.50	16.21	63.69	0.00	6	22	0	6	27	1720	5311	0	-3591
2365+00	236500	100.00	47.84	33.08	0.00	119	179	0	119	224	1839	5535	0	-3696
2366+00	236600	100.00	47.40	25.61	0.00	176	109	0	176	136	2015	5671	0	-3656
2367+00	236700	100.00	54.02	25.92	0.00	188	95	0	188	119	2203	5790	0	-3587
2368+00	236800	100.00	43.82	29.71	0.00	181	103	0	181	129	2384	5919	0	-3535
2368+44	236843.505	43.51	96.64	55.73	0.00	113	69	0	113	86	2497	6005	0	-3508
2368+50	236850	6.49	102.21	56.72	0.00	24	14	0	24	17	2521	6022	0	-3501
2369+00	236900	50.00	65.76	54.46	0.00	156	103	0	156	129	2677	6151	0	-3474
2370+00	237000	100.00	42.55	38.19	0.00	201	172	0	201	214	2877	6365	0	-3488
2371+00	237100	100.00	18.72	45.45	0.00	113	155	0	113	194	2991	6559	0	-3568
2372+00	237200	100.00	16.57	33.36	0.00	65	146	0	65	182	3056	6741	0	-3685
2373+00	237300	100.00	17.66	30.89	0.00	63	119	0	63	149	3119	6890	0	-3770
2374+00	237400	100.00	16.67	81.34	0.00	64	208	0	64	260	3183	7150	0	-3967
2374+03	237403.187	3.19	16.69	103.27	0.00	2	11	0	2	14	3185	7163	0	-3978
2375+00	237500	96.81	17.14	44.46	0.00	61	265	0	61	331	3246	7494	0	-4249
2376+00	237600	100.00	19.13	38.29	0.00	67	153	0	67	192	3313	7686	0	-4373
2377+00	237700	100.00	15.38	47.17	0.00	64	158	0	64	198	3377	7884	0	-4507
2377+56	237756.25	56.25	12.92	28.17	0.00	29	78	0	29	98	3406	7982	0	-4576
2377+78	237778.102	21.85	14.28	112.33	0.00	11	57	0	11	71	3417	8053	0	-4636
2378+00	237800	21.90	14.01	50.35	0.00	11	66	0	11	82	3429	8135	0	-4707
2379+00	237900	100.00	14.40	37.33	0.00	53	162	0	53	203	3481	8338	0	-4857
2380+00	238000	100.00	17.61	18.17	0.00	59	103	0	59	128	3541	8467	0	-4926
2381+00	238100	100.00	20.31	14.63	0.00	70	61	0	70	76	3611	8543	0	-4932
2382+00	238200	100.00	21.96	6.07	0.00	78	38	0	78	48	3689	8591	0	-4902
2382+08	238207.953	7.95	22.12	5.89	0.00	6	2	0	6	2	3696	8593	0	-4897
2383+00	238300	92.05	19.41	19.8	0.00	71	44	0	71	55	3766	8648	0	-4881
2384+00	238400	100.00	15.87	23.2	0.00	65	80	0	65	100	3832	8747	0	-4915
2385+00	238500	100.00	19.56	17.43	0.00	66	75	0	66	94	3897	8841	0	-4944
2386+00	238600	100.00	19.99	20.86	0.00	73	71	0	73	89	3971	8930	0	-4959
2387+00	238700	100.00	20.94	19.71	0.00	76	75	0	76	94	4046	9024	0	-4977

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73

DIVISION 5 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2388+00	238800	100.00	18.02	23.73	0.00	144	161	0	144	201	4191	9225	0	-5034
2389+00	238900	100.00	20.75	29.11	0.00	72	98	0	72	122	4262	9347	0	-5085
2390+00	239000	100.00	19.22	27.85	0.00	74	105	0	74	132	4336	9479	0	-5142
2390+50	239050	50.00	66.01	19.93	0.00	79	44	0	79	55	4415	9534	0	-5119
2391+00	239100	50.00	21.61	23.62	0.00	81	40	0	81	50	4496	9585	0	-5088
2392+00	239200	100.00	17.59	21.54	0.00	73	84	0	73	105	4569	9689	0	-5120
2393+00	239300	100.00	17.66	20.51	0.00	65	78	0	65	97	4634	9787	0	-5152
2394+00	239400	100.00	19.29	20.53	0.00	68	76	0	68	95	4703	9882	0	-5179
2395+00	239500	100.00	14.77	26.29	0.00	63	87	0	63	108	4766	9990	0	-5224
2395+72	239571.782	71.78	19.18	53.06	0.00	45	105	0	45	132	4811	10122	0	-5311
2395+76	239576.03	4.25	19.14	53.05	0.00	3	8	0	3	10	4814	10132	0	-5318
2395+85	239585.07	9.04	19.03	44.97	0.00	6	16	0	6	21	4820	10153	0	-5332
2395+90	239589.79	4.72	18.98	43.89	0.00	3	8	0	3	10	4824	10162	0	-5339
2396+00	239600	10.21	18.97	28.97	0.00	7	14	0	7	17	4831	10180	0	-5349
2397+00 BK	239700	100.00	29.54	32.91	0.00	90	115	0	90	143	4921	10323	0	-5402
							COLUMN TOTALS		4921	10323				

PROJECT ID 1650-06-73

DIVISION 6 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2396+00 AH	239600	0.00	18.97	28.97	0.00	0	0	0	0	0	0	0	0	0
2397+00	239700	100.00	29.54	32.91	0.00	90	115	0	90	143	90	143	0	-53
2398+00	239800	100.00	27.36	42.67	0.00	105	140	0	105	175	195	318	0	-123
2399+00	239900	100.00	37.32	27.84	0.00	120	131	0	120	163	315	481	0	-166
2400+00	240000	100.00	35.50	47.05	0.00	135	139	0	135	173	450	655	0	-205
2401+00	240100	100.00	43.46	47.95	0.00	146	176	0	146	220	596	875	0	-279
2402+00	240200	100.00	37.78	55.08	0.00	150	191	0	150	238	747	1113	0	-367
2402+39	240239.189	39.19	41.21	58.21	0.00	57	82	0	57	103	804	1216	0	-412
2402+56	240256.087	16.90	39.32	116.41	0.00	25	55	0	25	68	829	1284	0	-455
2403+00	240300	43.91	38.92	44.16	0.00	64	131	0	64	163	893	1447	0	-555
2404+00	240400	100.00	39.42	71.66	0.00	145	214	0	145	268	1038	1716	0	-678
2405+00	240500	100.00	36.06	79.05	0.00	140	279	0	140	349	1178	2064	0	-887
2406+00	240600	100.00	43.25	51.35	0.00	147	241	0	147	302	1324	2366	0	-1042
2407+00	240700	100.00	41.94	33.91	0.00	158	158	0	158	197	1482	2564	0	-1082
2408+00	240800	100.00	48.32	21.04	0.00	167	102	0	167	127	1649	2691	0	-1042
2409+00	240900	100.00	38.40	19.42	0.00	161	75	0	161	94	1810	2785	0	-975
2410+00	241000	100.00	36.72	34.02	0.00	139	99	0	139	124	1949	2908	0	-959
2411+00	241100	100.00	39.58	35.16	0.00	141	128	0	141	160	2090	3068	0	-978
2411+13	241113.462	13.46	43.14	31.18	0.00	21	17	0	21	21	2111	3089	0	-978
2412+00	241200	86.54	37.52	124.51	0.00	129	250	0	129	312	2240	3401	0	-1161
2412+26	241225.7	25.70	41.02	138.11	0.00	37	125	0	37	156	2278	3557	0	-1280
2412+78	241277.711	52.01	37.68	308.19	0.00	76	430	0	76	537	2353	4094	0	-1741
2413+00	241300	22.29	35.50	157.11	0.00	30	192	0	30	240	2384	4335	0	-1951
2414+00	241400	100.00	38.29	88.73	0.00	137	455	0	137	569	2520	4904	0	-2383
2415+00	241500	100.00	38.41	83.21	0.00	142	318	0	142	398	2662	5302	0	-2639
2415+37	241537.448	37.45	74.56	80.29	0.00	78	113	0	78	142	2741	5443	0	-2703
2416+00	241600	62.55	56.62	66.81	0.00	152	170	0	152	213	2893	5656	0	-2764
2417+00	241700	100.00	51.53	70.46	0.00	200	254	0	200	318	3093	5974	0	-2881
2418+00	241800	100.00	46.62	120.33	0.00	182	353	0	182	442	3275	6416	0	-3141
2419+00	241900	100.00	44.87	114.37	0.00	169	435	0	169	543	3444	6959	0	-3515
2420+00	242000	100.00	69.98	67.39	0.00	213	337	0	213	421	3657	7380	0	-3723
2421+00	242100	100.00	140.08	37.67	0.00	389	195	0	389	243	4046	7623	0	-3577
2422+00	242200	100.00	34.66	76.68	0.00	324	212	0	324	265	4369	7888	0	-3518
2422+77	242277.409	77.41	42.57	202.13	0.00	111	400	0	111	500	4480	8387	0	-3907
2423+00	242300	22.59	31.85	114.03	0.00	31	132	0	31	165	4511	8553	0	-4041
2424+00	242400	100.00	83.78	110.62	0.00	214	416	0	214	520	4725	9073	0	-4347
2425+00	242500	100.00	90.83	134.44	0.00	323	454	0	323	567	5049	9640	0	-4591
2426+00	242600	100.00	60.03	206.58	0.00	279	632	0	279	789	5328	10429	0	-5101
2427+00	242700	100.00	154.59	1.66	0.00	397	386	0	397	482	5725	10911	0	-5186
2427+54	242753.749	53.75	149.86	2.66	0.00	303	4	0	303	5	6028	10917	0	-4888
2428+00	242800	46.25	114.56	2.13	0.00	226	4	0	226	5	6255	10922	0	-4667
2429+00	242900	100.00	39.19	86.26	0.00	285	164	0	285	205	6540	11126	0	-4587
2430+00	243000	100.00	36.14	82.54	0.00	140	313	0	140	391	6679	11517	0	-4838
2431+00	243100	100.00	30.94	88.2	0.00	124	316	0	124	395	6803	11912	0	-5109
2431+32	243132.027	32.03	41.99	152.48	0.00	43	143	0	43	178	6847	12091	0	-5244
2431+65	243164.57	32.54	42.14	57.02	0.00	51	126	0	51	158	6897	12249	0	-5351
2432+00	243200	35.43	35.60	58.46	0.00	51	76	0	51	95	6948	12343	0	-5395
2432+78	243278	78.00	57.12	291.6	0.00	134	506	0	134	632	7082	12975	0	-5893
2433+00	243300	22.00	35.08	106.14	0.00	38	162	0	38	203	7120	13178	0	-6058
2434+00	243400	100.00	35.37	74.56	0.00	130	335	0	130	418	7250	13596	0	-6346
2435+00	243500	100.00	33.66	90.52	0.00	128	306	0	128	382	7378	13978	0	-6600
2436+00	243600	100.00	34.26	87.81	0.00	126	330	0	126	413	7504	14391	0	-6887
2437+00	243700	100.00	32.04	83.36	0.00	123	317	0	123	396	7627	14787	0	-7161
2438+00	243800	100.00	32.96	84.92	0.00	120	312	0	120	390	7747	15177	0	-7430
2439+00	243900	100.00	30.29	82.21	0.00	117	310	0	117	387	7864	15564	0	-7700
2440+00	244000	100.00	32.54	70.92	0.00	116	284	0	116	354	7981	15918	0	-7938
2441+00	244100	100.00	33.32	60.28	0.00	122	243	0	122	304	8102	16222	0	-8119
2442+00	244200	100.00	34.95	55.34	0.00	126	214	0	126	268	8229	16490	0	-8261
2443+00	244300	100.00	35.47	53.15	0.00	130	201	0	130	251	8359	16741	0	-8381
2444+00	244400	100.00	33.86	55.44	0.00	128	201	0	128	251	8488	16992	0	-8504
2445+00	244500	100.00	35.67	74.54	0.00	129	241	0	129	301	8616	17293	0	-8677
2446+00	244600	100.00	33.07	88.53	0.00	127	302	0	127	377	8744	17670	0	-8927
2447+00	244700	100.00	33.71	120.37	0.00	124	387	0	124	484	8867	18154	0	-9287

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73

DIVISION 6 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2447+32	244732	32.00	48.87	257.13	0.00	98	447	0	98	559	8965	18713	0	-9748
2448+00	244800	68.00	35.38	169.26	0.00	106	537	0	106	671	9071	19384	0	-10313
2449+00	244900	100.00	35.24	149.77	0.00	131	591	0	131	738	9202	20123	0	-10921
2449+56	244955.84	55.84	117.95	4.76	0.00	158	160	0	158	200	9361	20323	0	-10962
2450+00	245000	44.16	34.20	63.13	0.00	124	56	0	124	69	9485	20392	0	-10907
2451+00	245100	100.00	38.11	30.07	0.00	134	173	0	134	216	9619	20608	0	-10989
2452+00	245200	100.00	62.14	17.74	0.00	186	89	0	186	111	9805	20719	0	-10914
2453+00	245300	100.00	169.67	8.03	0.00	429	48	0	429	60	10234	20778	0	-10544
2454+00	245400	100.00	380.61	2.53	0.00	1019	20	0	1019	24	11253	20803	0	-9550
2455+00	245500	100.00	499.93	1.98	0.00	1631	8	0	1631	10	12884	20813	0	-7930
2456+00	245600	100.00	649.55	0.15	0.00	2129	4	0	2129	5	15012	20818	0	-5806
2457+00	245700	100.00	507.14	0.62	0.00	2142	1	0	2142	2	17154	20820	0	-3666
2458+00	245800	100.00	204.82	4.03	0.00	1318	9	0	1318	11	18473	20831	0	-2358
2459+00	245900	100.00	219.23	32.55	0.00	785	68	0	785	85	19258	20915	0	-1657
2460+00	246000	100.00	41.23	273.2	0.00	482	566	0	482	708	19740	21623	0	-1883
2461+00	246100	100.00	35.79	897.9	0.00	143	2169	0	143	2711	19883	24334	0	-4451
2461+08	246107.667	7.67	35.21	913.93	0.00	10	257	0	10	322	19893	24655	0	-4762
2462+00	246200	92.33	34.09	395.1	0.00	118	2238	0	118	2798	20011	27453	0	-7442
2463+00	246300	100.00	39.11	46.61	0.00	136	818	0	136	1022	20147	28476	0	-8329
2464+00	246400	100.00	55.76	30.67	0.00	176	143	0	176	179	20323	28655	0	-8332
2465+00	246500	100.00	61.32	28.69	0.00	217	110	0	217	137	20540	28792	0	-8253
2466+00	246600	100.00	62.25	39.16	0.00	229	126	0	229	157	20768	28949	0	-8181
2467+00	246700	100.00	35.30	190.37	0.00	181	425	0	181	531	20949	29480	0	-8531
2467+64	246764.305	64.30	108.79	170.85	0.00	172	430	0	172	538	21121	30018	0	-8898
2468+00	246800	35.70	32.29	173.92	0.00	93	228	0	93	285	21214	30303	0	-9089
2468+86	246886.13	86.13	39.85	87.96	0.00	115	418	0	115	522	21329	30825	0	-9496
2469+00	246900	13.87	33.78	111.41	0.00	19	51	0	19	64	21348	30889	0	-9541
2469+76	246976.152	76.15	33.64	336.87	0.00	95	632	0	95	790	21443	31679	0	-10236
2470+00	247000	23.85	36.28	92.97	0.00	31	190	0	31	237	21474	31917	0	-10443
2471+00	247100	100.00	34.40	91.79	0.00	131	342	0	131	428	21605	32344	0	-10740
2472+00	247200	100.00	33.39	78.79	0.00	126	316	0	126	395	21730	32739	0	-11009
2473+00	247300	100.00	31.83	82.07	0.00	121	298	0	121	372	21851	33112	0	-11261
2474+00	247400	100.00	33.90	77.96	0.00	122	296	0	122	370	21973	33482	0	-11509
2475+00	247500	100.00	32.51	88.16	0.00	123	308	0	123	385	22096	33866	0	-11771
2476+00	247600	100.00	32.36	82.99	0.00	120	317	0	120	396	22216	34263	0	-12047
2477+00	247700	100.00	32.71	92.25	0.00	121	325	0	121	406	22336	34668	0	-12332
2478+00	247800	100.00	32.37	105.06	0.00	121	365	0	121	457	22457	35125	0	-12668
2479+00	247900	100.00	30.98	118.47	0.00	117	414	0	117	517	22574	35642	0	-13068
2480+00	248000	100.00	33.02	74.38	0.00	119	357	0	119	446	22693	36089	0	-13396
2480+30	248030	30.00	36.53	0.59	0.00	39	42	0	39	52	22731	36141	0	-13410
2480+70	248070.034	40.03	35.73	3.97	0.00	54	3	0	54	4	22785	36145	0	-13360
2481+00	248100	29.97	34.78	8.53	0.00	39	7	0	39	9	22824	36154	0	-13330
2481+16	248116	16.00	50.35	68.81	0.00	25	23	0	25	29	22849	36182	0	-13333
2482+00	248200	84.00	33.43	90.2	0.00	130	247	0	130	309	22980	36492	0	-13512
2482+50	248250	50.00	40.36	79.31	0.00	68	157	0	68	196	23048	36688	0	-13640
2483+00	248300	50.00	31.91	86.84	0.00	67	154	0	67	192	23115	36880	0	-13765
2484+00	248400	100.00	32.59	97.23	0.00	119	341	0	119	426	23234	37306	0	-14072
2485+00	248500	100.00	33.01	112	0.00	121	387	0	121	484	23356	37791	0	-14435
2486+00	248600	100.00	29.77	124.53	0.00	116	438	0	116	548	23472	38338	0	-14866
2487+00	248700	100.00	28.59	118.88	0.00	108	451	0	108	563	23580	38902	0	-15322
2488+00	248800	100.00	35.63	75.89	0.00	119	361	0	119	451	23699	39352	0	-15653
2488+56	248856	56.00	47.20	18.12	0.00	86	97	0	86	122	23785	39474	0	-15689
2488+80	248880.128	24.13	48.29	140.1	0.00	43	71	0	43	88	23828	39563	0	-15735
2489+00	248900	19.87	33.75	95.96	0.00	30	87	0	30	109	23858	39671	0	-15814
2490+00	249000	100.00	35.00	75.82	0.00	127	318	0	127	398	23985	40069	0	-16084
2491+00	249100	100.00	68.22	58.52	0.00	191	249	0	191	311	24176	40380	0	-16204
2492+00	249200	100.00	74.38	48.3	0.00	264	198	0	264	247	24440	40627	0	-16187
2493+00	249300	100.00	50.59	49.03	0.00	231	180	0	231	225	24672	40852	0	-16181
2494+00	249400	100.00	43.44	46.37	0.00	174	177	0	174	221	24846	41073	0	-16227
2495+00	249500	100.00	24.57	46.46	0.00	126	172	0	126	215	24972	41288	0	-16316
2496+00 BK	249600	100.00	15.23	55.41	0.00	74	189	0	74	236	25045	41524	0	-16478
									COLUMN TOTALS		25045	41524		

PROJECT ID 1650-06-73

DIVISION 7 - USH 61

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2496+00	AH	249600	0.00	15.23	55.41	0.00	0	0	0	0	0	0	0	0	0
2496+82		249681.817	81.82	20.37	127.85	0.00	54	278	0	54	347	54	347	0	-293
2497+00		249700	18.18	21.25	60.01	0.00	14	63	0	14	79	68	426	0	-358
2497+48		249747.781	47.78	18.01	104.83	0.00	35	146	0	35	182	103	608	0	-506
2498+00		249800	52.22	21.33	42.79	0.00	38	143	0	38	178	141	787	0	-646
2499+00		249900	100.00	22.53	36.53	0.00	81	147	0	81	184	222	971	0	-749
2500+00		250000	100.00	19.11	40.7	0.00	77	143	0	77	179	299	1149	0	-850
2501+00		250100	100.00	21.68	31.18	0.00	76	133	0	76	166	375	1316	0	-941
2502+00		250200	100.00	21.78	31.08	0.00	80	115	0	80	144	455	1460	0	-1005
2503+00		250300	100.00	37.02	22.1	0.00	109	98	0	109	123	564	1583	0	-1019
2503+26		250326.143	26.14	22.52	22.84	0.00	29	22	0	29	27	593	1610	0	-1017
2503+50		250350	23.86	21.37	18.22	0.00	19	18	0	19	23	612	1633	0	-1021
2504+00	BK	250400	50.00	15.60	34.01	0.00	34	48	0	34	60	646	1693	0	-1047

COLUMN TOTALS	646	1693

9

9

PROJECT ID 1650-06-73
DIVISION 8 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2504+00 AH	250400	0.00	15.60	34.01	0.00	0	0	0	0	0	0	0	0	0
2505+00	250500	100.00	31.01	31.7	0.00	86	122	0	86	152	86	152	0	-66
2506+00	250600	100.00	33.87	38.08	0.00	120	129	0	120	162	206	314	0	-107
2507+00	250700	100.00	37.92	40.3	0.00	133	145	0	133	181	339	495	0	-156
2508+00	250800	100.00	37.55	70.17	0.00	140	205	0	140	256	479	751	0	-272
2509+00	250900	100.00	32.64	111.35	0.00	130	336	0	130	420	609	1171	0	-562
2510+00	251000	100.00	35.82	113.66	0.00	127	417	0	127	521	736	1692	0	-956
2511+00	251100	100.00	36.26	98.68	0.00	133	393	0	133	492	869	2183	0	-1314
2512+00	251200	100.00	32.90	87.89	0.00	128	346	0	128	432	997	2615	0	-1618
2513+00	251300	100.00	33.61	85.59	0.00	123	321	0	123	402	1121	3017	0	-1896
2514+00	251400	100.00	35.06	79.34	0.00	127	305	0	127	382	1248	3399	0	-2151
2514+32	251432.198	32.20	52.34	110.23	0.00	52	113	0	52	141	1300	3540	0	-2240
2514+82	251481.756	49.56	38.31	34.64	0.00	83	133	0	83	166	1383	3706	0	-2323
2515+00	251500	18.24	37.74	62.11	0.00	26	33	0	26	41	1409	3747	0	-2338
2516+00	251600	100.00	54.94	54.85	0.00	172	217	0	172	271	1580	4018	0	-2437
2517+00	251700	100.00	38.30	88.08	0.00	173	265	0	173	331	1753	4349	0	-2595
2517+72	251772.068	72.07	35.34	113.27	0.00	98	269	0	98	336	1851	4684	0	-2833
2517+83	251782.598	10.53	35.12	137.96	0.00	14	49	0	14	61	1865	4746	0	-2881
2518+00	251800	17.40	35.02	103.28	0.00	23	78	0	23	97	1888	4843	0	-2955
2519+00	251900	100.00	30.59	90.5	0.00	122	359	0	122	449	2009	5291	0	-3282
2520+00	252000	100.00	37.46	80.65	0.00	126	317	0	126	396	2135	5688	0	-3552
2521+00	252100	100.00	32.81	80.29	0.00	130	298	0	130	373	2265	6060	0	-3795
2522+00	252200	100.00	36.57	72.11	0.00	128	282	0	128	353	2394	6413	0	-4019
2523+00	252300	100.00	42.37	35	0.00	146	198	0	146	248	2540	6661	0	-4121
2523+82	252381.528	81.53	58.76	26.55	0.00	153	93	0	153	116	2693	6777	0	-4084
2523+96	252395.623	14.10	45.88	56.33	0.00	27	22	0	27	27	2720	6804	0	-4084
2524+00	252400	4.38	28.95	49.95	0.00	6	9	0	6	11	2726	6815	0	-4089
2525+00	252500	100.00	35.36	58.75	0.00	119	201	0	119	252	2845	7066	0	-4221
2526+00	252600	100.00	35.67	73.41	0.00	132	245	0	132	306	2977	7372	0	-4396
2527+00	252700	100.00	29.43	106.96	0.00	121	334	0	121	418	3097	7790	0	-4693
2528+00	252800	100.00	32.04	96.37	0.00	114	377	0	114	471	3211	8261	0	-5049
2528+44	252844.133	44.13	72.40	78.29	0.00	85	143	0	85	178	3296	8439	0	-5143
2529+00	252900	55.87	34.50	78.26	0.00	111	162	0	111	202	3407	8641	0	-5234
2530+00	253000	100.00	30.05	77.09	0.00	120	288	0	120	360	3527	9001	0	-5474
2530+16	253015.52	15.52	28.29	75.47	0.00	17	44	0	17	55	3543	9056	0	-5512
2530+46	253046	30.48	24.84	261.72	0.00	30	190	0	30	238	3573	9294	0	-5720
2530+81	253080.6	34.60	28.42	70.55	0.00	34	213	0	34	266	3608	9560	0	-5952
2531+00	253100	19.40	35.10	73.43	0.00	23	52	0	23	65	3630	9625	0	-5994
2531+36	253135.722	35.72	87.93	79.25	0.00	81	101	0	81	126	3712	9751	0	-6039
2531+76	253175.93	40.21	32.76	41.09	0.00	90	90	0	90	112	3802	9863	0	-6061
2532+00	253200	24.07	30.47	65.91	0.00	28	48	0	28	60	3830	9922	0	-6093
2533+00	253300	100.00	33.79	103.47	0.00	119	314	0	119	392	3949	10315	0	-6366
2534+00	253400	100.00	34.54	148.74	0.00	127	467	0	127	584	4075	10898	0	-6823
2535+00	253500	100.00	30.38	139.33	0.00	120	533	0	120	667	4196	11565	0	-7370
2535+93	253592.888	92.89	54.05	156.75	0.00	145	509	0	145	637	4341	12202	0	-7861
2536+00	253600	7.11	29.31	109.7	0.00	11	35	0	11	44	4352	12246	0	-7894
2537+00	253700	100.00	26.79	161.49	0.00	104	502	0	104	628	4456	12873	0	-8418
2538+00	253800	100.00	32.93	152.7	0.00	111	582	0	111	727	4566	13601	0	-9034
2538+50	253850	50.00	28.13	202.04	0.00	57	328	0	57	411	4623	14011	0	-9389
2539+00	253900	50.00	31.37	121.95	0.00	55	300	0	55	375	4678	14386	0	-9708
2539+28	253927.659	27.66	48.04	109.25	0.00	41	118	0	41	148	4719	14534	0	-9816
2539+55	253955.082	27.42	29.97	310.3	0.00	40	213	0	40	266	4758	14801	0	-10042
2539+93	253992.776	37.69	73.00	111.13	0.00	72	294	0	72	368	4830	15168	0	-10338
2540+00	254000	7.22	70.33	109.3	0.00	19	29	0	19	37	4849	15205	0	-10356
2540+18	254018.452	18.45	37.41	71.98	0.00	37	62	0	37	77	4886	15283	0	-10397
2541+00	254100	81.55	34.86	117.97	0.00	109	287	0	109	359	4995	15641	0	-10646
2542+00	254200	100.00	37.27	117.21	0.00	134	436	0	134	544	5129	16186	0	-11057
2543+00	254300	100.00	34.82	128.78	0.00	134	456	0	134	569	5262	16755	0	-11493

CONTINUED ON NEXT PAGE

PROJECT ID 1650-06-73

DIVISION 8 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2544+00	254400	100.00	31.12	142.27	0.00	244	1004	0	244	1255	5506	18010	0	-12503
2545+00	254500	100.00	41.85	122.74	0.00	135	491	0	135	613	5642	18623	0	-12982
2546+00	254600	100.00	63.81	106.25	0.00	196	424	0	196	530	5837	19153	0	-13316
2546+49	254649.137	49.14	64.24	183.5	0.00	117	264	0	117	330	5954	19483	0	-13529
2547+00	254700	50.86	80.34	127.12	0.00	136	293	0	136	366	6090	19849	0	-13759
2548+00	254800	100.00	147.70	58.45	0.00	422	344	0	422	430	6512	20278	0	-13766
2549+00	254900	100.00	171.38	22.73	0.00	591	150	0	591	188	7103	20466	0	-13363
2550+00	255000	100.00	157.89	23.32	0.00	610	85	0	610	107	7713	20573	0	-12860
2551+00	255100	100.00	77.30	85.75	0.00	436	202	0	436	252	8148	20825	0	-12677
2552+00	255200	100.00	33.14	104.52	0.00	205	352	0	205	440	8353	21266	0	-12913
2552+61	255261	61.00	33.58	190.72	0.00	75	334	0	75	417	8428	21683	0	-13254
2553+00	255300	39.00	33.34	114.87	0.00	48	221	0	48	276	8477	21958	0	-13482
2553+86	255385.98	85.98	34.04	56.97	0.00	107	274	0	107	342	8584	22300	0	-13717
2554+00	255400	14.02	34.76	62.45	0.00	18	31	0	18	39	8602	22339	0	-13737
2555+00	255500	100.00	34.81	42.86	0.00	129	195	0	129	244	8731	22583	0	-13852
2556+00	255600	100.00	61.53	35.92	0.00	178	146	0	178	182	8909	22765	0	-13856
2557+00	255700	100.00	68.43	60.75	0.00	241	179	0	241	224	9150	22989	0	-13839
2558+00	255800	100.00	59.99	52.71	0.00	238	210	0	238	263	9387	23252	0	-13864
2559+00	255900	100.00	51.16	36.77	0.00	206	166	0	206	207	9593	23459	0	-13866
2560+00	256000	100.00	40.67	33.51	0.00	170	130	0	170	163	9763	23622	0	-13858
2561+00	256100	100.00	38.82	21.51	0.00	147	102	0	147	127	9911	23749	0	-13838
2562+00	256200	100.00	18.63	11.83	0.00	106	62	0	106	77	10017	23826	0	-13809
2563+00 BK	256300	100.00	57.74	2.46	0.00	141	26	0	141	33	10158	23859	0	-13701
						COLUMN TOTALS			10158	23859				

PROJECT ID 1650-06-73

DIVISION 9 - USH 61

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
2562+00 AH	256200	0.00	18.63	11.83	0.00	0	0	0	0	0	0	0	0	0
2563+00	256300	100.00	57.74	2.46	0.00	141	26	0	141	33	141	33	0	108
2563+13	256313.011	13.01	34.28	9.55	0.00	22	3	0	22	4	164	37	0	127
2563+17	256316.507	3.50	21.58	0	0.00	4	1	0	4	1	167	37	0	130
2564+00	256400	83.49	138.42	0	0.00	247	0	0	247	0	415	37	0	377
2564+10	256410	10.00	136.51	0	0.00	51	0	0	51	0	466	37	0	428
2565+00	256500	90.00	113.10	52.57	0.00	416	88	0	416	110	882	147	0	735
2566+00	256600	100.00	64.33	62.59	0.00	329	213	0	329	267	1210	414	0	797
2567+00	256700	100.00	102.22	60.34	0.00	308	228	0	308	285	1519	698	0	820
2567+33	256732.58	32.58	71.57	35.82	0.00	105	58	0	105	73	1623	771	0	853
2567+69	256769	36.42	46.65	171.54	0.00	80	140	0	80	175	1703	945	0	758
2568+00	256800	31.00	16.13	33.13	0.00	36	117	0	36	147	1739	1092	0	647
2569+00	256900	100.00	20.43	5.23	0.00	68	71	0	68	89	1807	1181	0	626
2569+09	256909	9.00	33.83	2.47	0.00	9	1	0	9	2	1816	1183	0	633
2570+00	257000	91.00	18.69	64.14	0.00	89	112	0	89	140	1904	1323	0	581
2571+00	257100	100.00	15.63	162.91	0.00	64	420	0	64	526	1968	1849	0	119
2572+00	257200	100.00	18.55	239.07	0.00	63	744	0	63	931	2031	2779	0	-748
2573+00	257300	100.00	20.34	183.52	0.00	72	783	0	72	978	2103	3757	0	-1654
2574+00	257400	100.00	20.47	205.47	0.00	76	720	0	76	900	2179	4658	0	-2479
2575+00	257500	100.00	21.52	173.52	0.00	78	702	0	78	877	2257	5535	0	-3278
2576+00	257600	100.00	22.51	78.78	0.00	82	467	0	82	584	2338	6119	0	-3781
2576+59	257659.352	59.35	39.66	48.22	0.00	68	140	0	68	174	2406	6294	0	-3887
2576+85	257684.968	25.62	73.40	34.65	0.00	54	39	0	54	49	2460	6343	0	-3883
2577+00	257700	15.03	23.91	27.76	0.00	27	17	0	27	22	2487	6364	0	-3877
2578+00	257800	100.00	30.90	14.9	0.00	102	79	0	102	99	2589	6463	0	-3874
2579+00	257900	100.00	30.68	0.7	0.00	114	29	0	114	36	2703	6499	0	-3797
2579+26	257925.87	25.87	31.95	1.82	0.00	30	1	0	30	2	2733	6501	0	-3768
2580+00	258000	74.13	28.66	13.92	0.00	83	22	0	83	27	2816	6528	0	-3712
2581+00	258100	100.00	37.17	0.97	0.00	122	28	0	122	34	2938	6562	0	-3624
2581+11	258111.4	11.40	34.36	0.46	0.00	15	0	0	15	0	2953	6563	0	-3610
2582+00	258200	88.60	32.83	9.01	0.00	110	16	0	110	19	3063	6582	0	-3519
2583+00	258300	100.00	29.16	18.59	0.00	115	51	0	115	64	3178	6646	0	-3468
2584+00	258400	100.00	40.82	11.43	0.00	130	56	0	130	69	3308	6715	0	-3408
2584+57	258456.963	56.96	29.39	10.19	0.00	74	23	0	74	29	3382	6744	0	-3362
2585+00	258500	43.04	16.03	10.94	0.00	36	17	0	36	21	3418	6765	0	-3347
2586+00	258600	100.00	16.94	18.48	0.00	61	54	0	61	68	3479	6833	0	-3354
2587+00	258700	100.00	20.33	12.3	0.00	69	57	0	69	71	3548	6904	0	-3356
2588+00	258800	100.00	21.76	8.76	0.00	78	39	0	78	49	3626	6953	0	-3327
2589+00	258900	100.00	21.65	14.97	0.00	80	44	0	80	55	3706	7008	0	-3302
2589+36	258935.74	35.74	39.43	15.21	0.00	40	20	0	40	25	3747	7033	0	-3286
2590+00	259000	64.26	20.59	32.89	0.00	71	57	0	71	72	3818	7105	0	-3286
2591+00	259100	100.00	18.13	16.83	0.00	72	92	0	72	115	3890	7220	0	-3330
2592+00	259200	100.00	20.71	6.62	0.00	72	43	0	72	54	3962	7274	0	-3312
2592+88	259288.202	88.20	37.99	3.68	0.00	96	17	0	96	21	4058	7295	0	-3237
2593+00	259300	11.80	39.41	4.4	0.00	17	2	0	17	2	4075	7297	0	-3223
2594+00	259400	100.00	25.45	1.79	0.00	120	11	0	120	14	4195	7312	0	-3117
2594+15	259415.04	15.04	38.49	0.76	0.00	18	1	0	18	1	4212	7312	0	-3100
2594+24 BK	259423.98	8.94	0.00	0	0.00	6	0	0	6	0	4219	7313	0	-3094

COLUMN TOTALS	4219	7313

9

9

PROJECT ID 1650-06-73

HYPOINT RD

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
105+75	AH	10575	0.00	33.48	30.55	0.00	0	0	0	0	0	0	0	0	0
106+00		10600	25.00	24.60	4.63	0.00	27	16	0	27	20	27	20	0	7
106+25		10625	25.00	37.71	0	0.00	29	2	0	29	3	56	23	0	33
106+50		10650	25.00	44.81	0.28	0.00	38	0	0	38	0	94	23	0	71
106+75		10675	25.00	47.10	0.78	0.00	43	0	0	43	1	136	24	0	113
107+00		10700	25.00	49.66	0.38	0.00	45	1	0	45	1	181	24	0	157
107+25		10725	25.00	55.78	0	0.00	49	0	0	49	0	230	25	0	205
107+50		10750	25.00	58.16	0	0.00	53	0	0	53	0	283	25	0	258
107+75		10775	25.00	56.83	0	0.00	53	0	0	53	0	336	25	0	311
108+00	BK	10800	25.00	23.30	0	0.00	37	0	0	37	0	373	25	0	348
								COLUMN TOTALS		373	25				

9

9

PROJECT ID 1650-06-73

CTH E

STATION		Real Station	Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	Fill	EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	Fill Factor 1.25	Cumulative Vol (CY) Cut	Fill	EBS	Mass Ordinate
165+79	AH	16579	0.00	97.06	11.09	0.00	0	0	0	0	0	0	0	0	0
166+00		16600	21.00	105.04	8.99	0.00	79	8	0	79	10	79	10	0	69
166+25		16625	25.00	107.46	9.55	1.00	98	9	0	98	11	177	20	0	156
166+50		16650	25.00	105.45	7.69	2.00	99	8	1	99	10	276	30	2	245
166+75		16675	25.00	96.06	4.3	3.00	93	6	2	93	7	369	37	4	331
167+00		16700	25.00	89.15	1.55	4.00	86	3	3	86	3	455	41	7	414
167+25		16725	25.00	101.48	1.8	5.00	88	2	4	88	2	543	43	12	500
167+50	BK	16750	25.00	111.52	0.24	6.00	99	1	5	99	1	641	44	17	598
									COLUMN TOTALS	641	44				

9

9

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	COMPUTER EARTHWORK DATA	SHEET 289	E

PROJECT ID 1650-06-73

CIRCLE RD

STATION		Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
155+65	AH	15565.062	0.00	24.42	0.16	0.00	0	0	0	0	0	0	0	0	0
155+75		15575	9.94	29.89	0.38	0.00	10	0	0	10	0	10	0	0	10
156+00		15600	25.00	58.72	0.12	1.00	41	0	0	41	0	51	0	0	51
156+25		15625	25.00	72.43	0	2.00	61	0	1	61	0	112	0	2	111
156+50		15650	25.00	68.66	0.07	3.00	65	0	2	65	0	177	1	4	177
156+62	BK	15661.836	11.84	100.64	0.97	4.00	37	0	2	37	0	214	1	6	213
								COLUMN TOTALS		214	1				

PROJECT ID 1650-06-73
PINE GROVE RD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
195+67 AH	19567	0.00	7.25	249.26	0.00	0	0	0	0	0	0	0	0	0
195+75	19575	8.00	4.91	327.19	0.00	2	85	0	2	107	2	107	0	-105
196+00	19600	25.00	3.41	215.65	1.00	4	251	0	4	314	6	421	0	-415
196+25	19625	25.00	7.58	41.87	2.00	5	119	1	5	149	11	570	2	-559
196+50	19650	25.00	15.77	3.32	3.00	11	21	2	11	26	22	596	4	-575
196+75	19675	25.00	24.01	5.1	4.00	18	4	3	18	5	40	601	7	-561
197+00	19700	25.00	29.99	5.9	5.00	25	5	4	25	6	65	607	12	-542
197+25	19725	25.00	36.80	3.93	6.00	31	5	5	31	6	96	613	17	-517
197+45 BK	19744.956	19.96	39.47	0.02	7.00	28	1	5	28	2	124	615	21	-491
						COLUMN TOTALS			124	615				

PROJECT ID 1650-06-73

WELLS LN

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
205+80 AH	20580	0.00	8.49	42	0.00	0	0	0	0	0	0	0	0	0
206+00	20600	20.00	21.80	41.74	0.00	11	31	0	11	39	11	39	0	-28
206+10 BK	20610	10.00	0.00	0	1.00	4	8	0	4	10	15	48	0	-33
						COLUMN TOTALS			15	48				

9

9

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	COMPUTER EARTHWORK DATA	SHEET 292	E

FILE NAME : \\sehmadison\projects\UZ\W\WITSW\117740\Civil 3D\16500603\SheetsPlan\Earthwork Data\090100_ew - Side Roads.dwg

PLOT DATE : 7/25/2016 10:03 PM PLOT BY : SEH INC LAYOUT NAME : 090120_EW PLOT SCALE : NTS

WISDOT/CADDS SHEET 49

PROJECT ID 1650-06-73

ENTERPRISE ST

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
35+55 AH	3555	0.00	42.93	5.38	0.00	0	0	0	0	0	0	0	0	0
35+75	3575	20.00	30.57	3.6	0.00	27	3	0	27	4	27	4	0	23
36+00	3600	25.00	29.72	1.44	1.00	28	2	0	28	3	55	7	0	48
36+25	3625	25.00	35.65	0.14	2.00	30	1	1	30	1	85	8	2	77
36+37 BK	3637	12.00	38.41	0	3.00	16	0	1	16	0	102	8	3	94
						COLUMN TOTALS			102	8				

9

9

PROJECT NO:1650-06-73	HWY: USH 61	COUNTY: GRANT	COMPUTER EARTHWORK DATA	SHEET 293	E

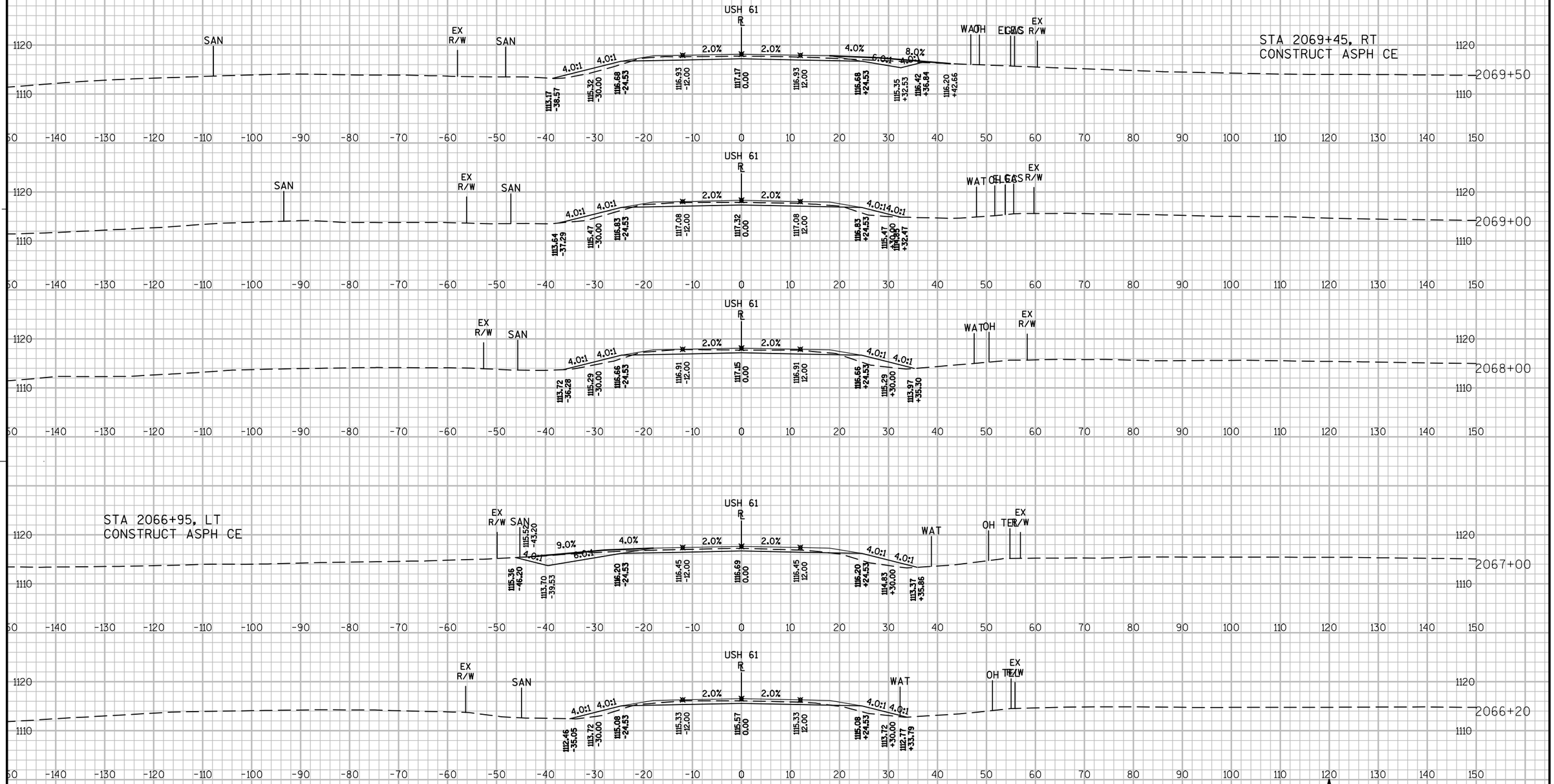
PROJECT ID 1650-06-73

MCGHAN RD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	VOLUME (CY) (RAW) Cut	VOLUME (CY) (RAW) Fill	VOLUME (CY) (RAW) EBS	VOLUME (CY) (ADJUSTED) Cut Factor 1.00	VOLUME (CY) (ADJUSTED) Fill Factor 1.25	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) EBS	Mass Ordinate
215+44 AH	21544	0.00	10.02	210.68	0.00	0	0	0	0	0	0	0	0	0
215+50	21550	6.00	8.46	240.84	0.00	2	50	0	2	63	2	63	0	-61
215+75	21575	25.00	4.39	310.34	1.00	6	255	0	6	319	8	382	0	-374
216+00	21600	25.00	0.00	51.36	2.00	2	167	1	2	209	10	591	2	-581
216+25	21625	25.00	0.00	138.81	3.00	0	88	2	0	110	10	701	4	-691
216+50	21650	25.00	0.70	79.75	4.00	0	101	3	0	126	10	828	7	-817
216+75	21675	25.00	23.42	24.93	5.00	11	48	4	11	61	22	888	12	-867
217+00	21700	25.00	48.12	0	6.00	33	12	5	33	14	55	903	17	-848
217+25 BK	21725.48	25.48	57.25	0	7.00	50	0	6	50	0	104	903	23	-798
							COLUMN TOTALS		104	903				

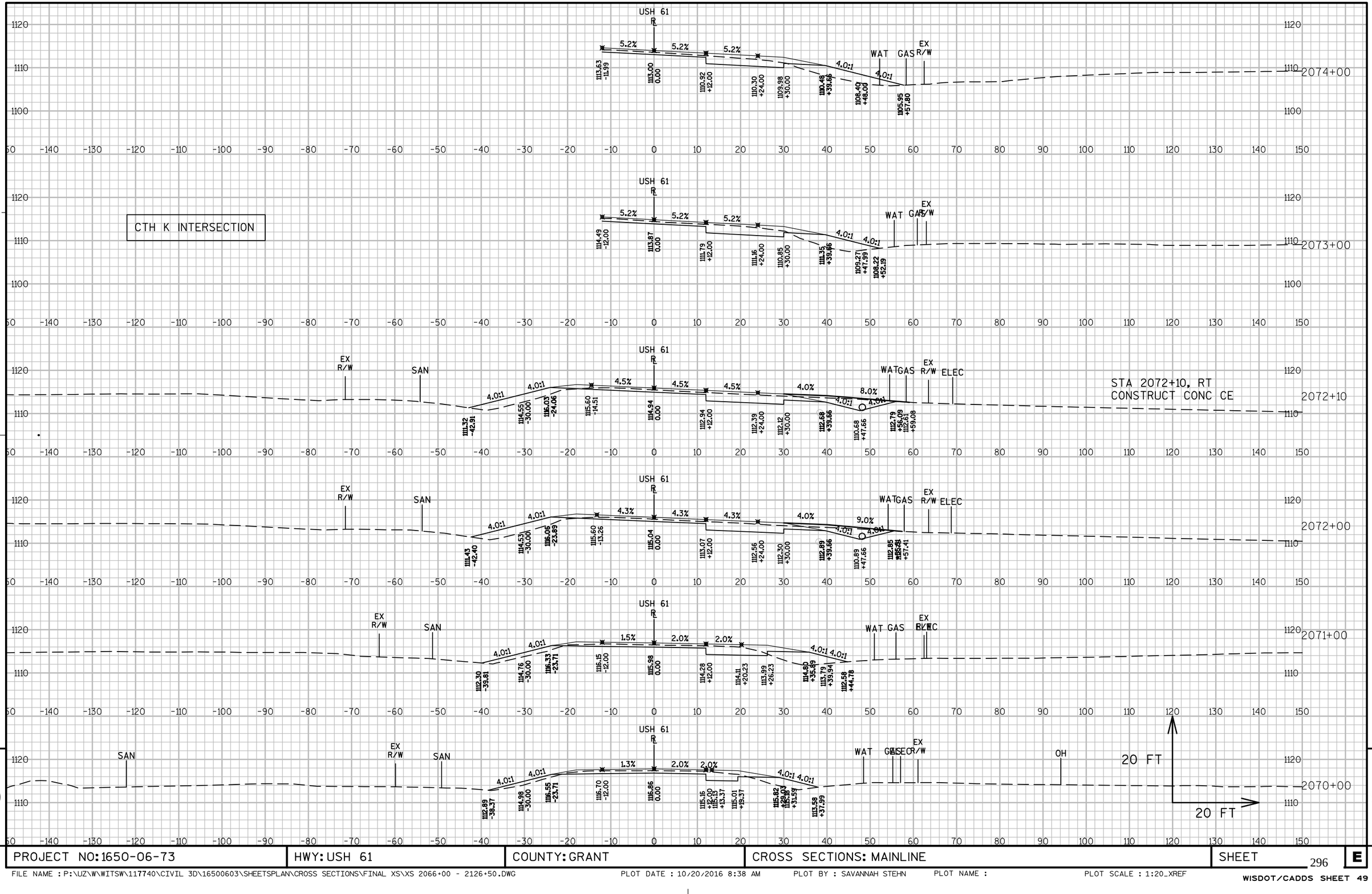
9

9

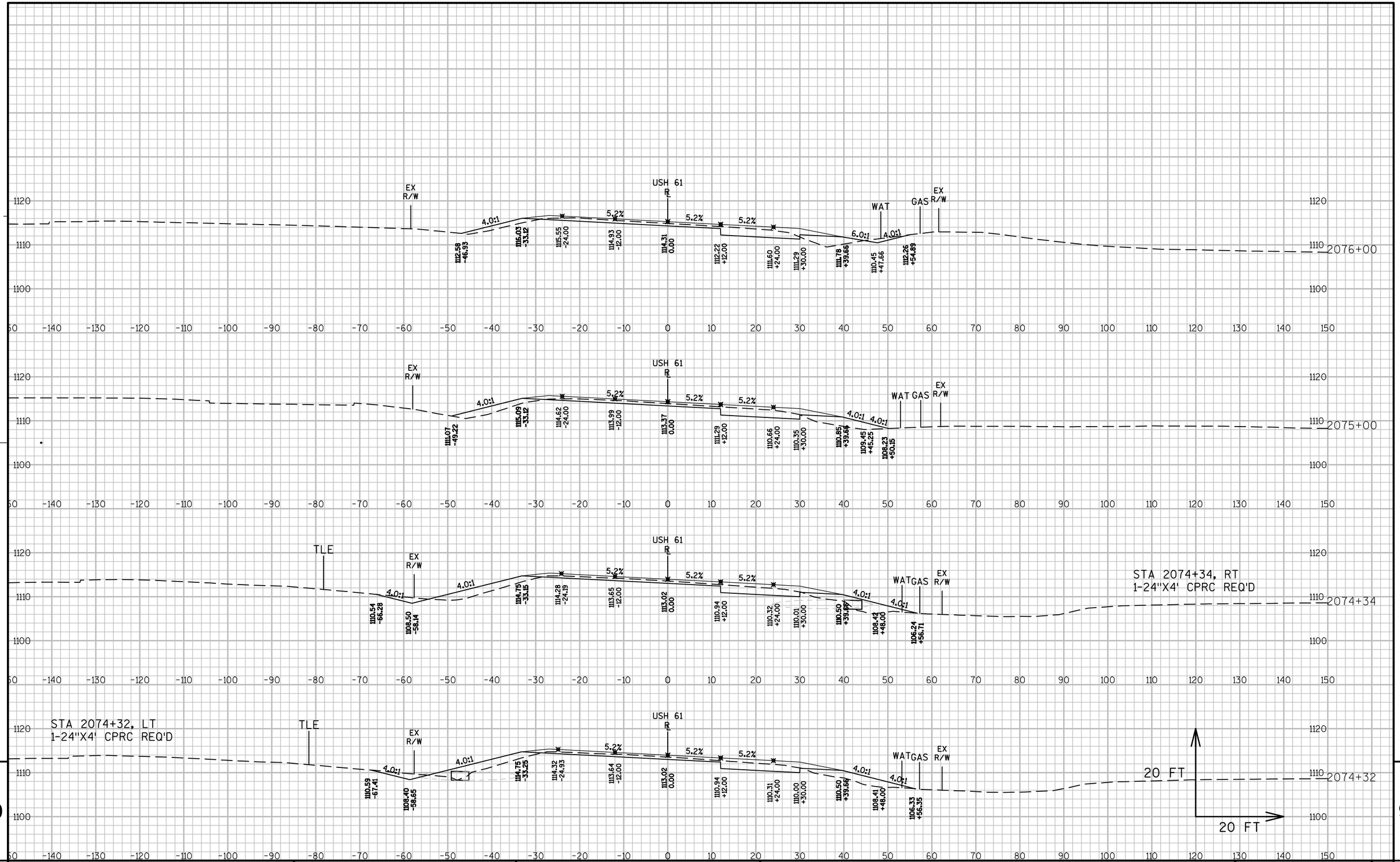


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 295	E

CTH K INTERSECTION



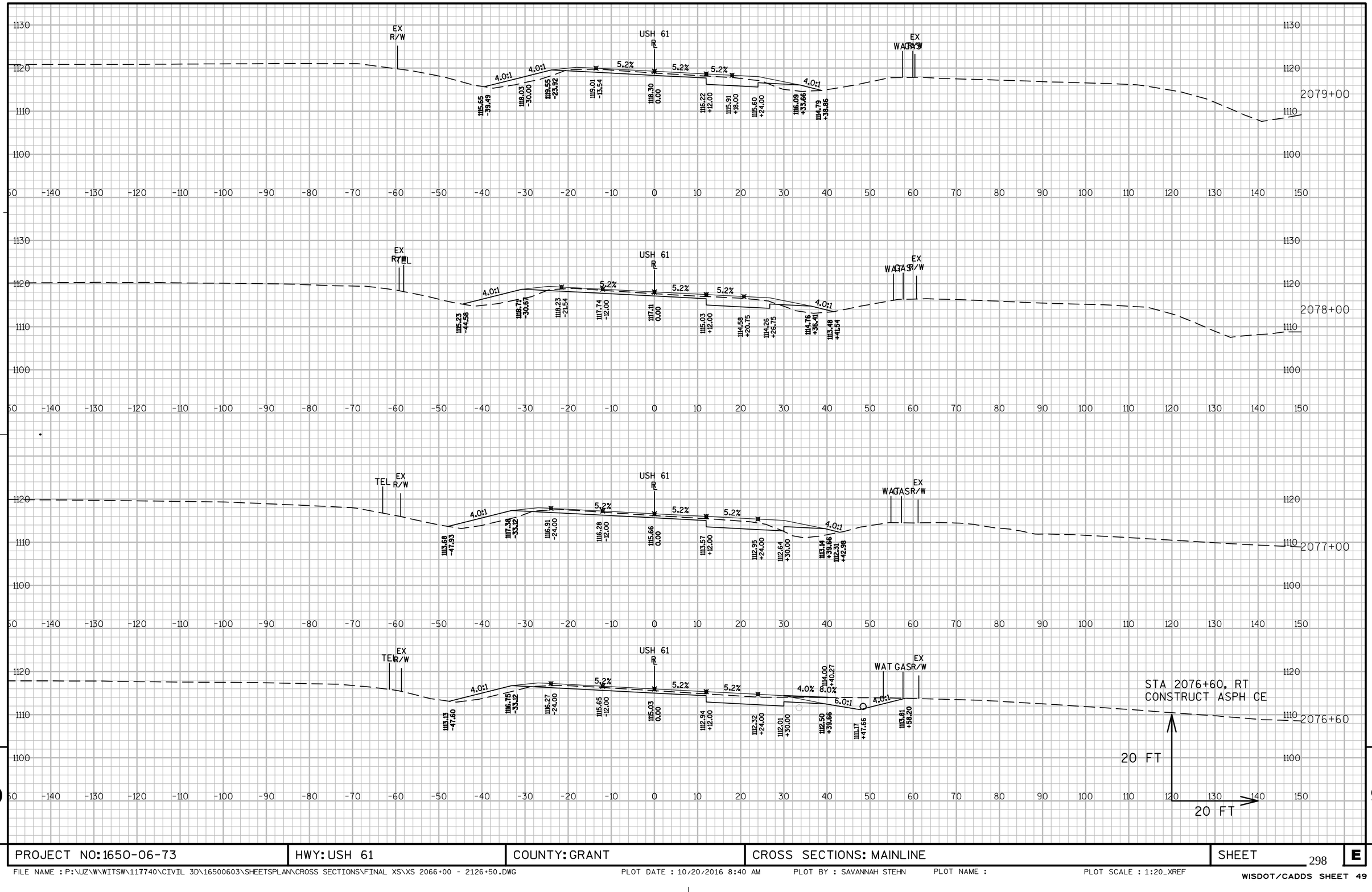
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 296	E



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 297	E

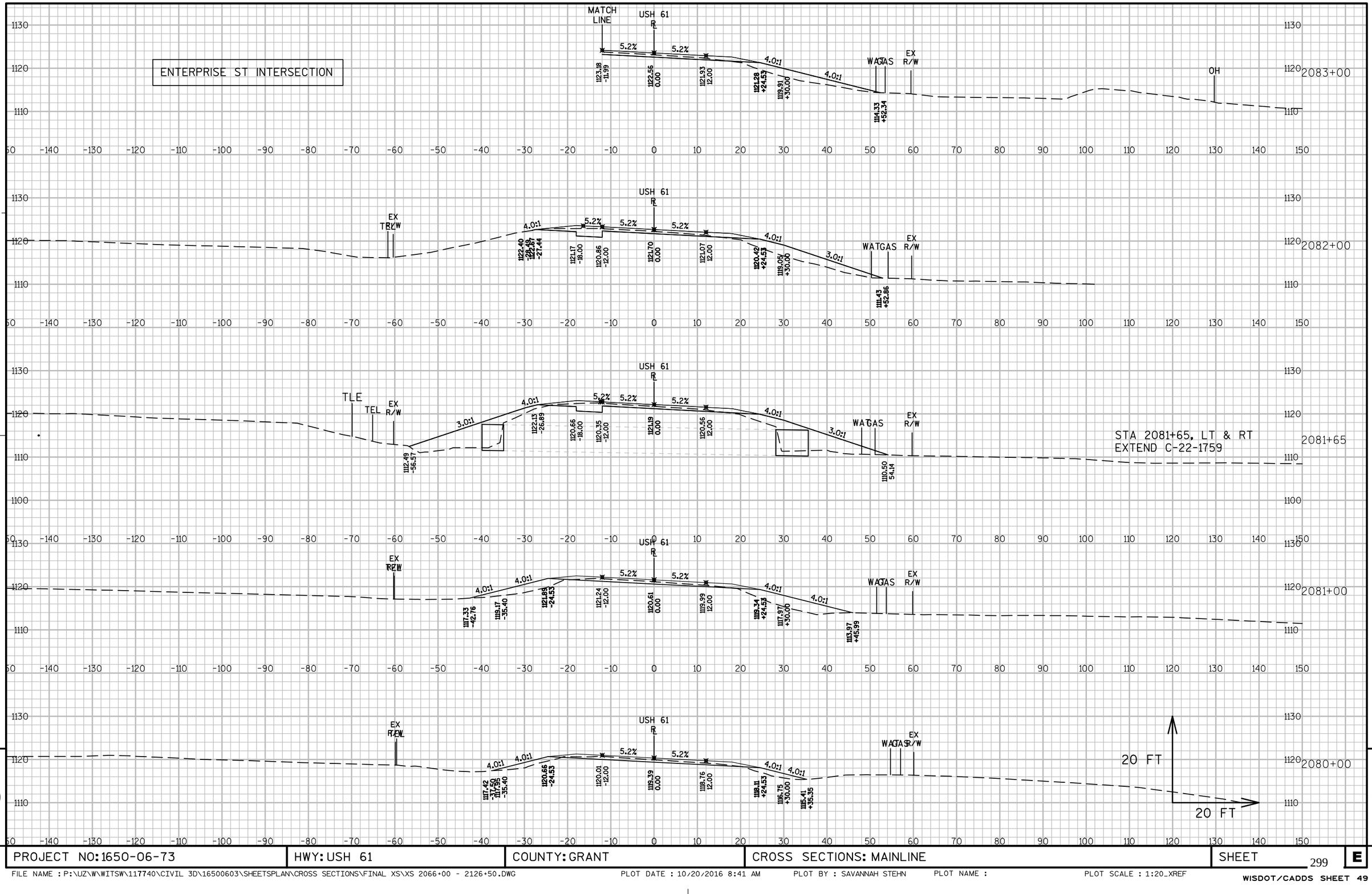
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:39 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 298	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:40 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

ENTERPRISE ST INTERSECTION



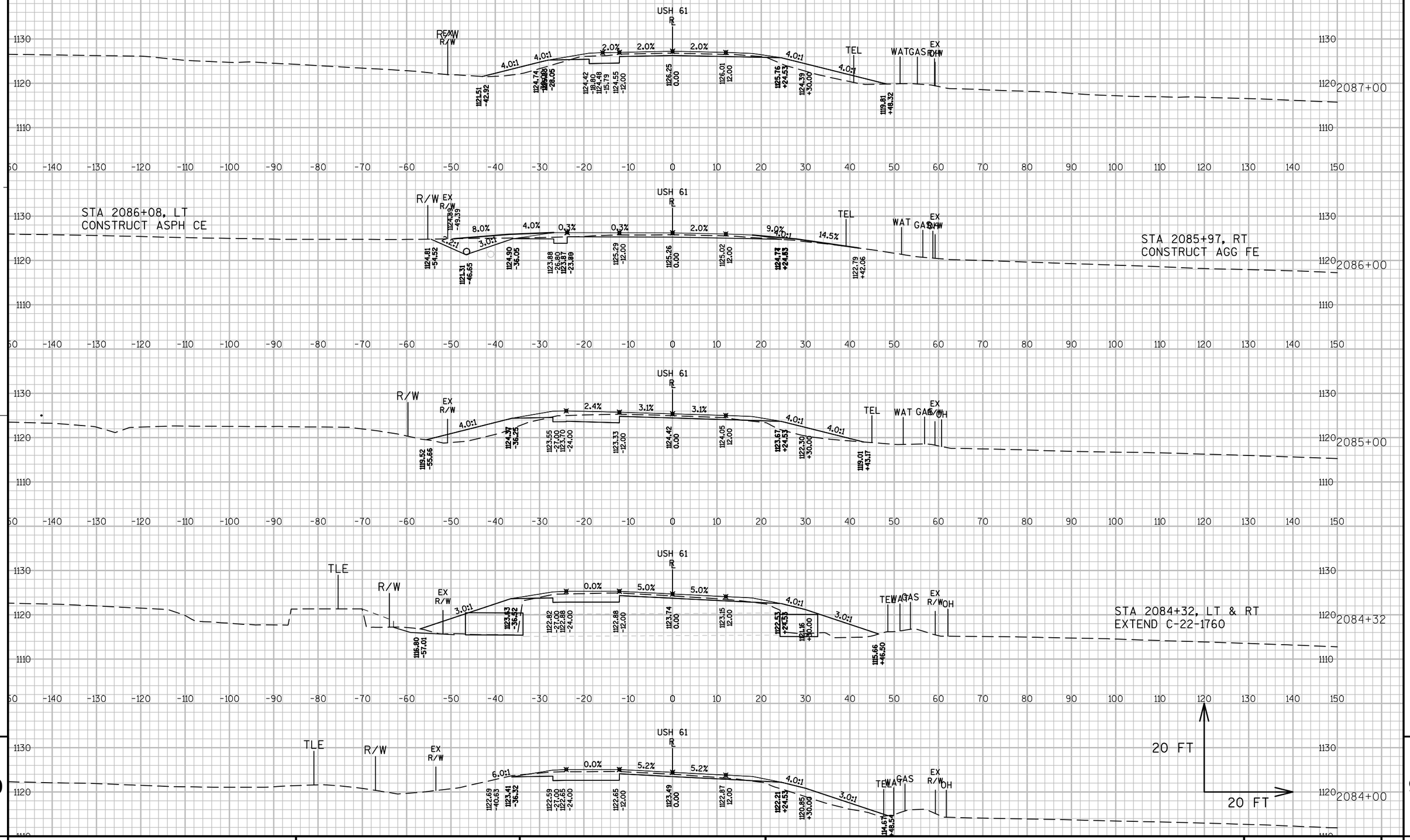
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 299	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:41 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

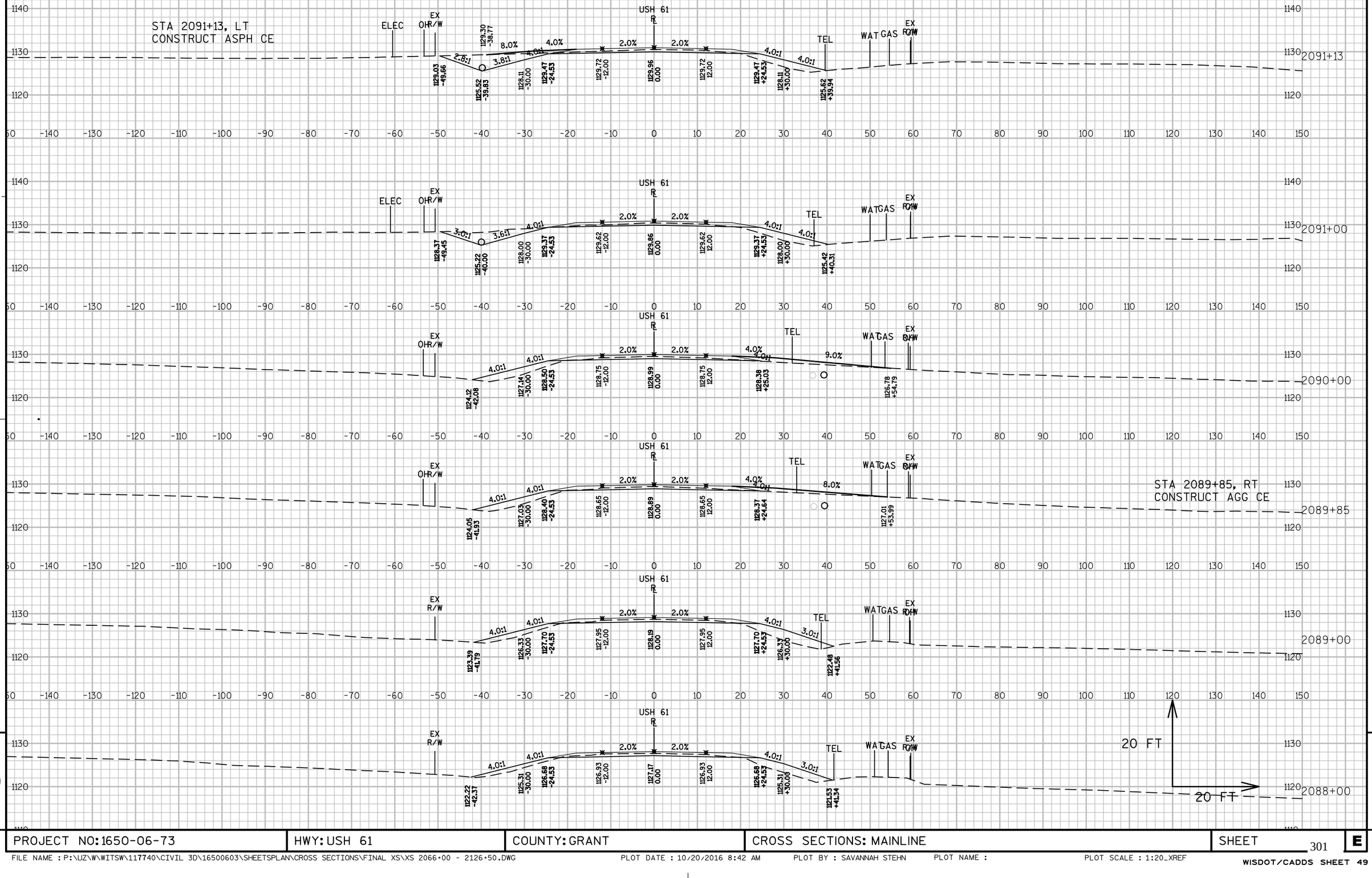
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 300	E

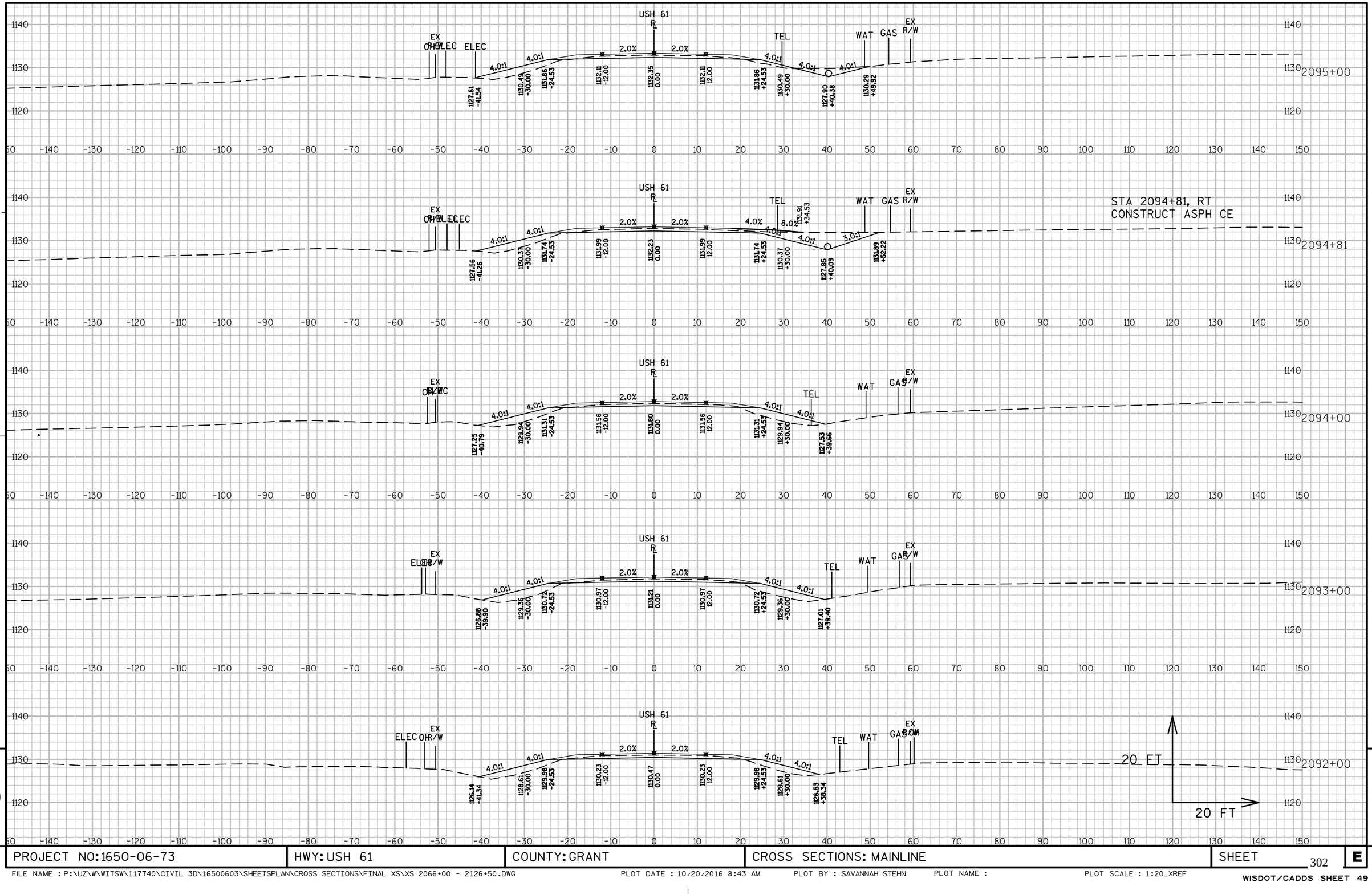
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:42 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 301	E



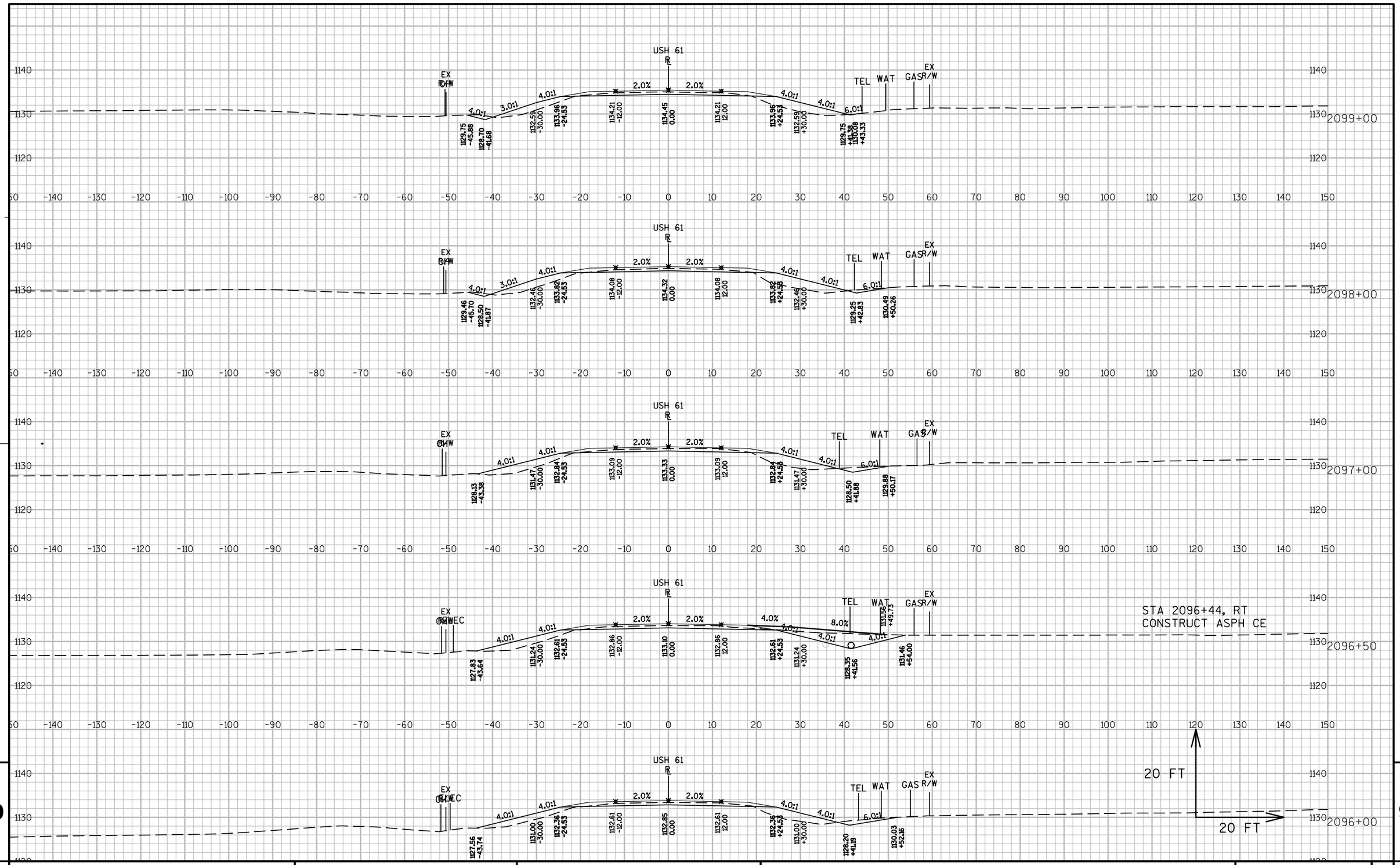
9

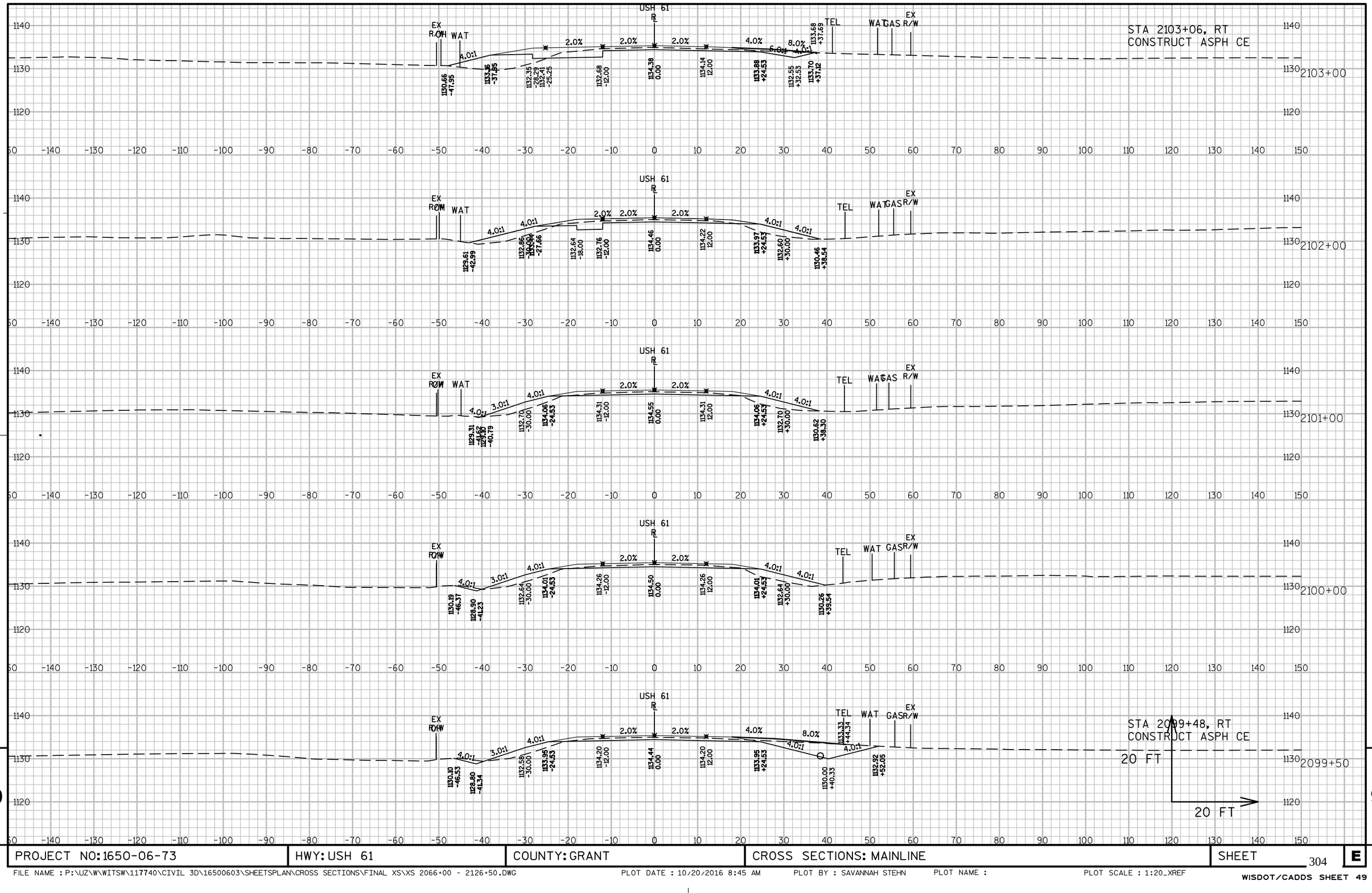
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 302	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:43 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

9


USH 61
℄
EX R/W
TEL
WAT
GAS
EX R/W
2.0%
2.0%
4.0:1
3.0:1
6.0:1
2099+00
2098+00
2097+00
2096+50
2096+00
STA 2096+44, RT
CONSTRUCT ASPH CE
20 FT
20 FT

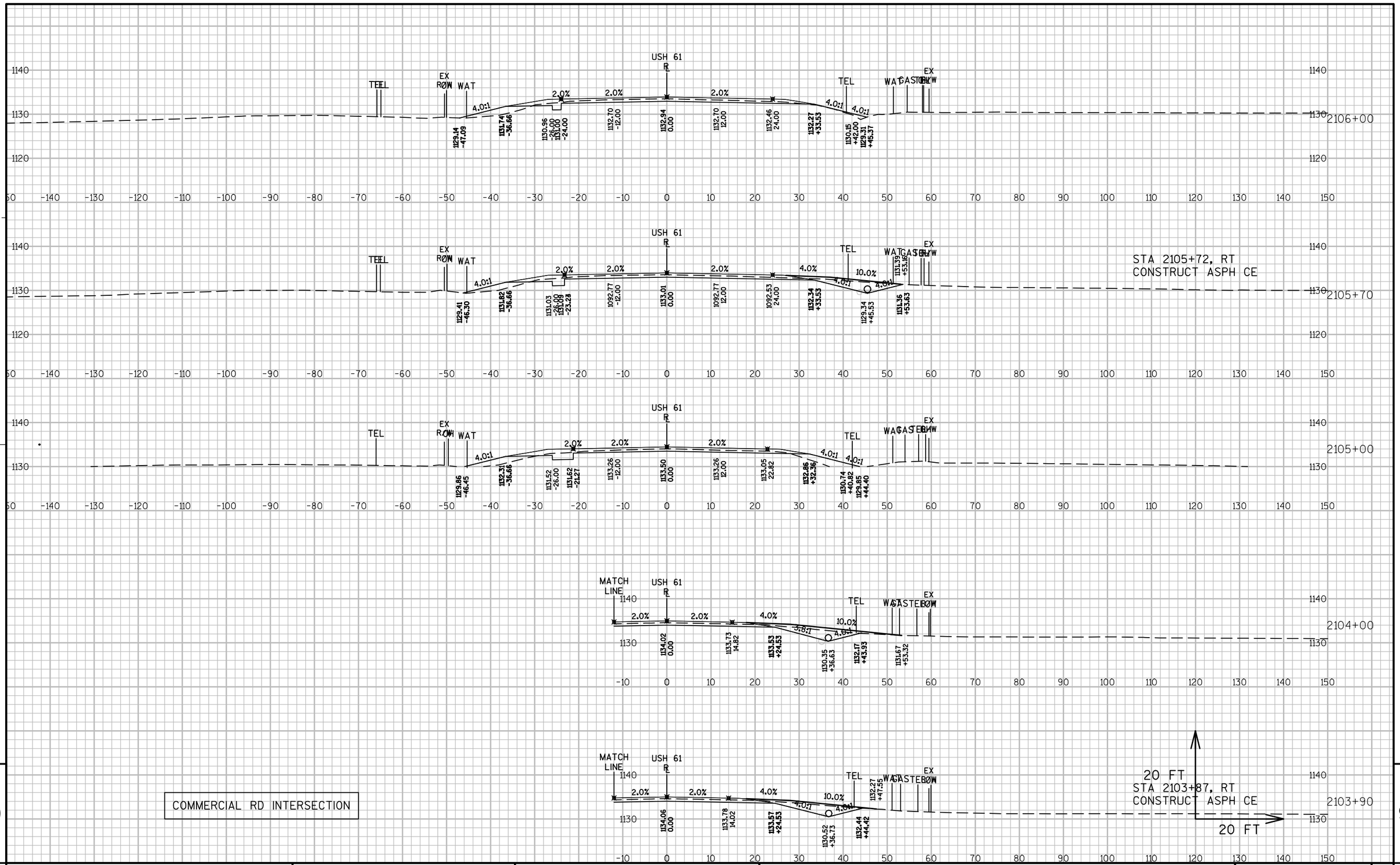


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 304	E

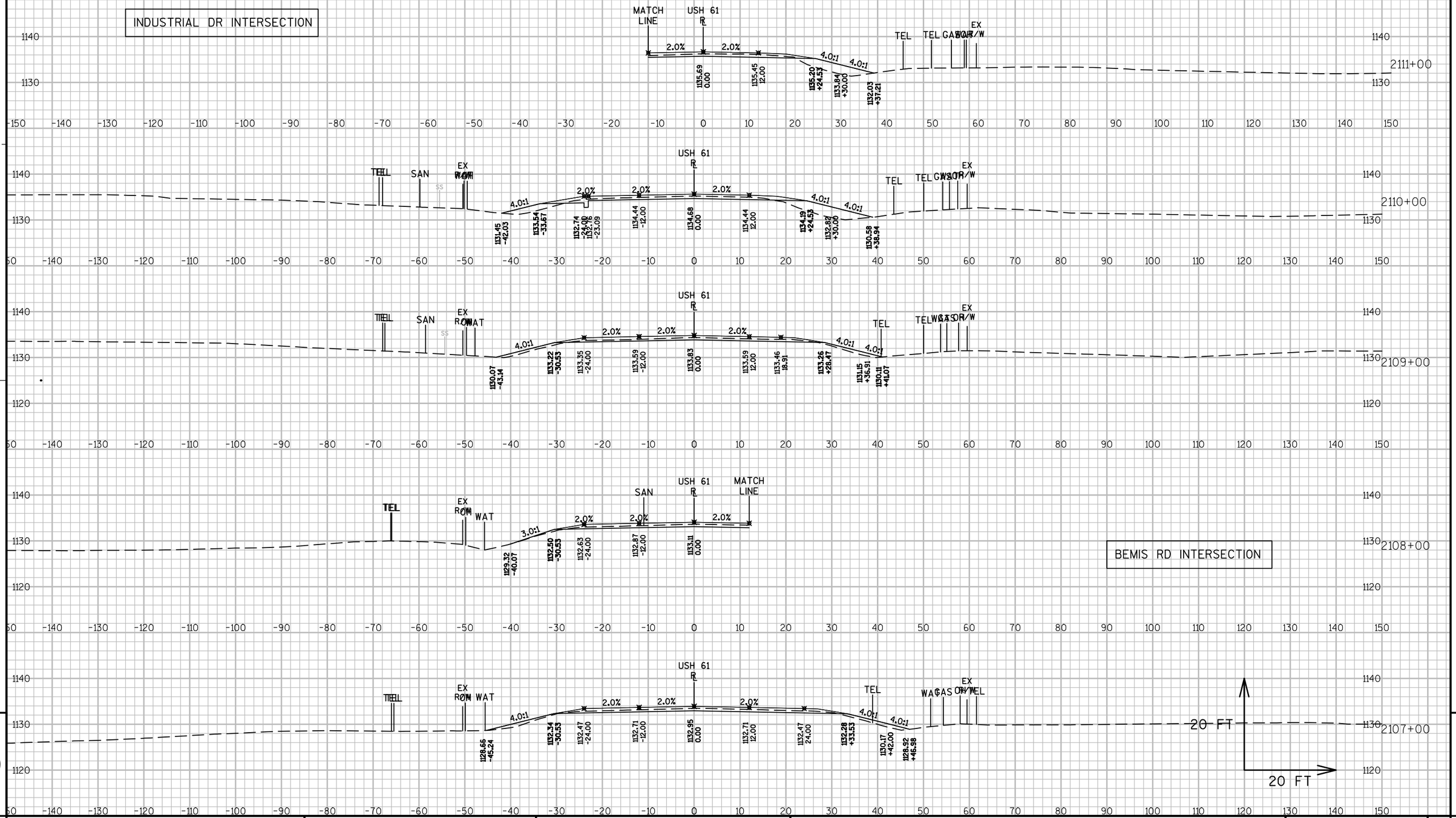
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:45 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



COMMERCIAL RD INTERSECTION

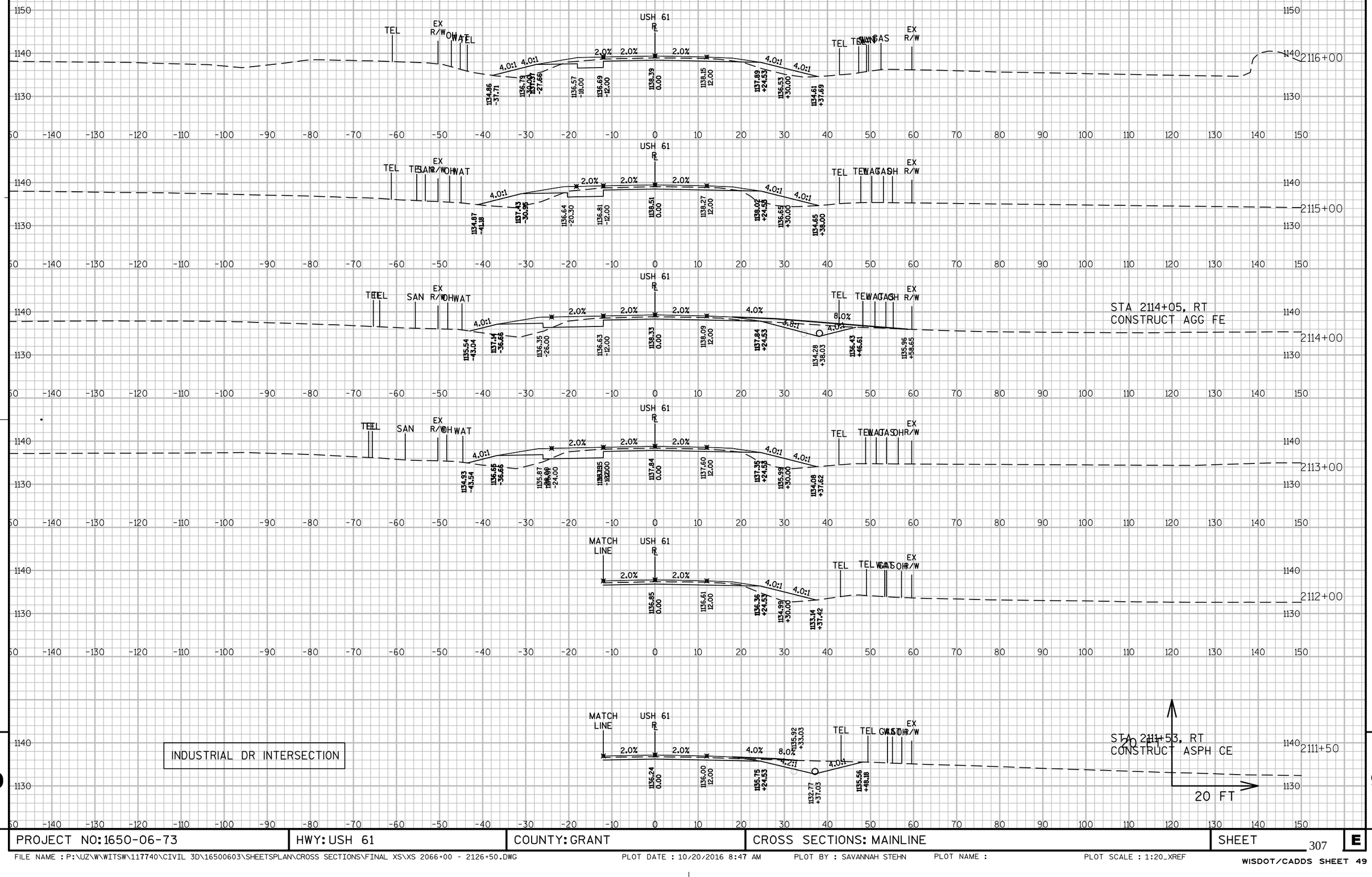
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 305	E

INDUSTRIAL DR INTERSECTION



BEMIS RD INTERSECTION

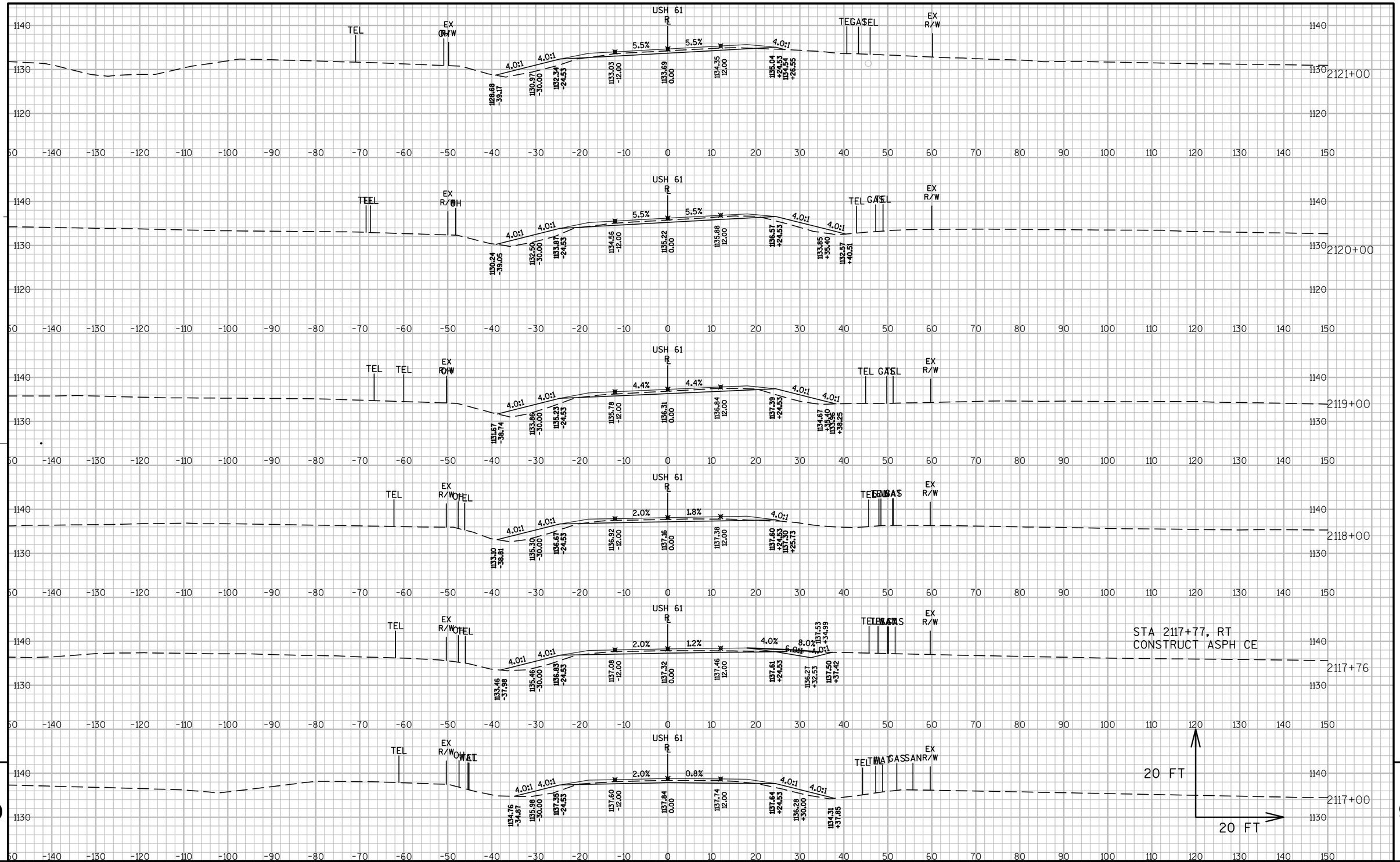
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 306	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 307	E

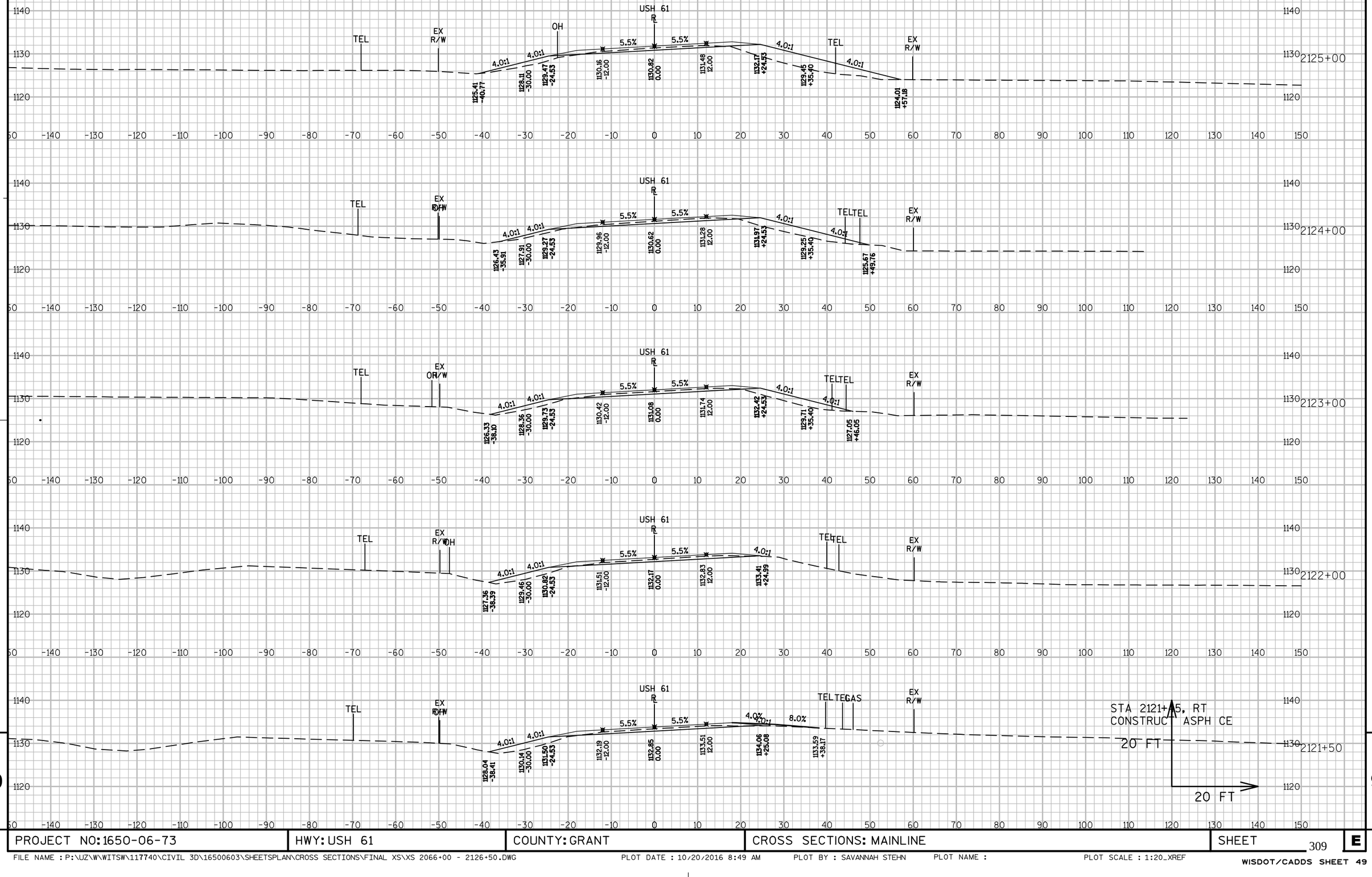
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:47 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 308	E

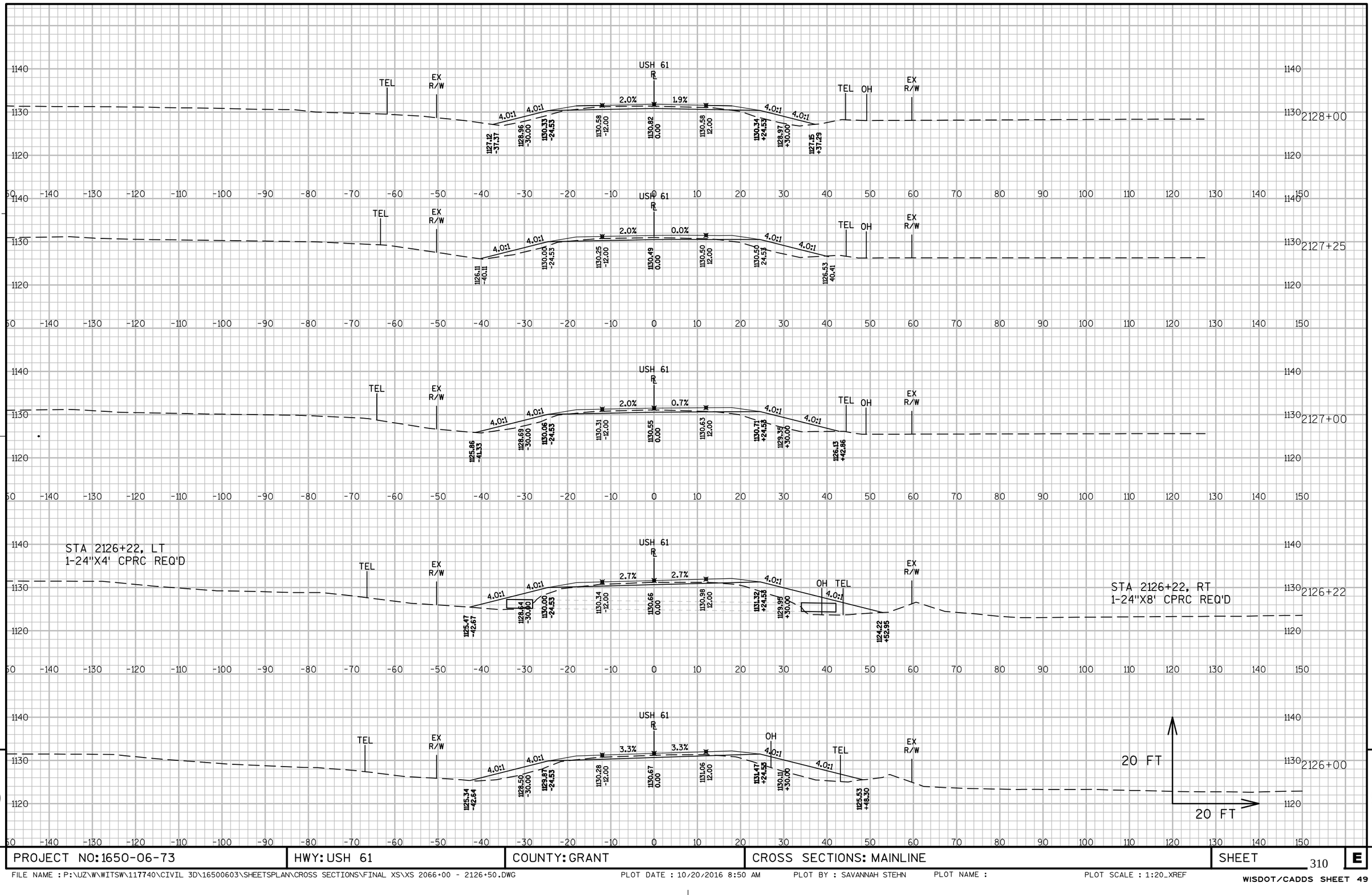
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:48 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 309	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:49 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

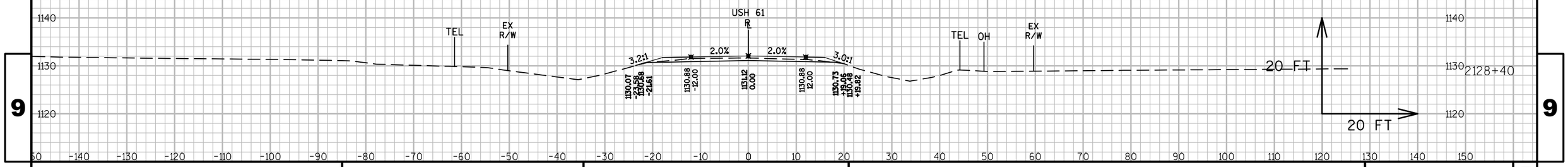


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 310	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:50 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

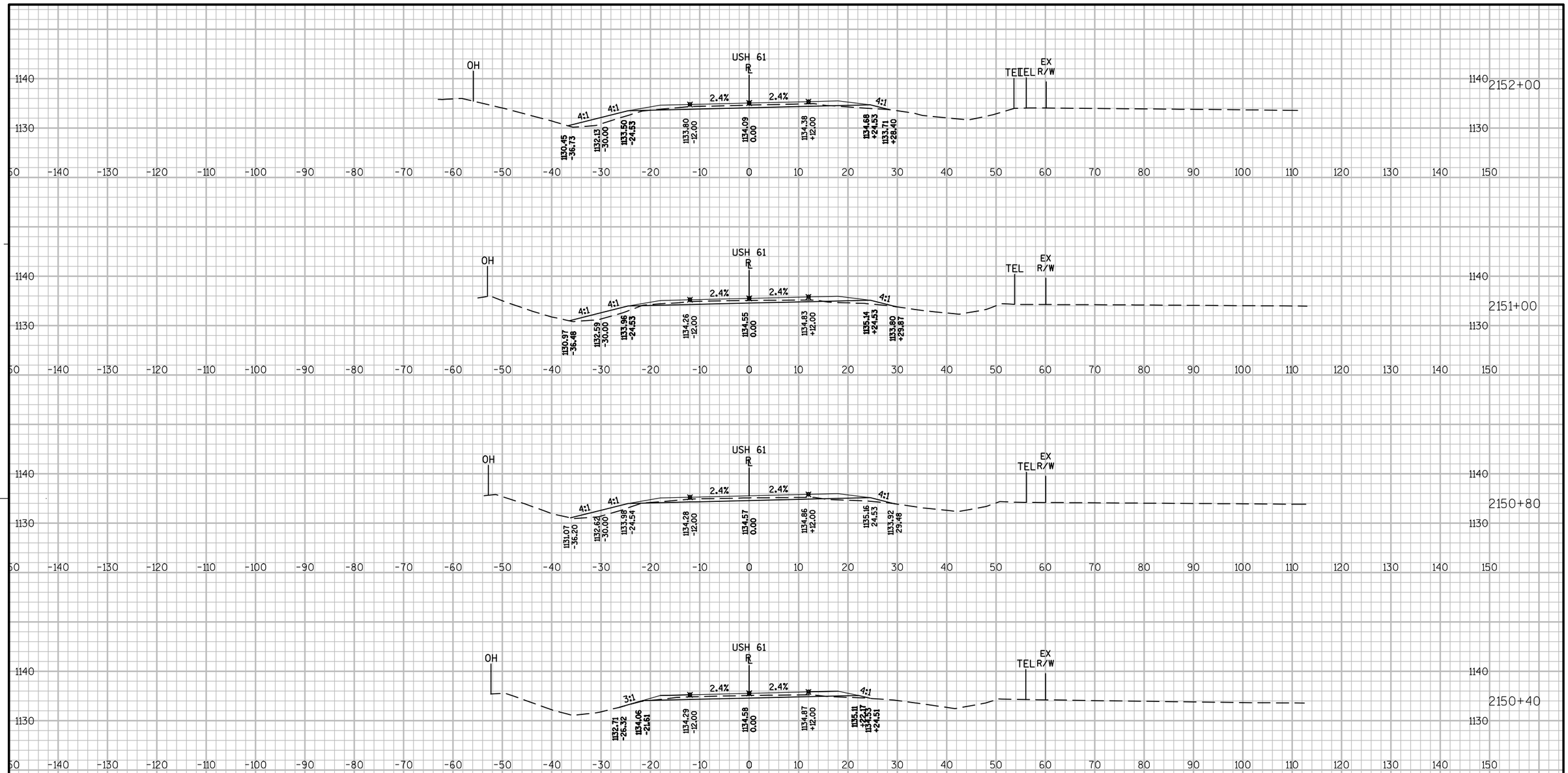
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 2128+40.00



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 311	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2066+00 - 2126+50.DWG PLOT DATE : 10/20/2016 8:50 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



BEGIN CONSTRUCTION
STA 2150+80.00

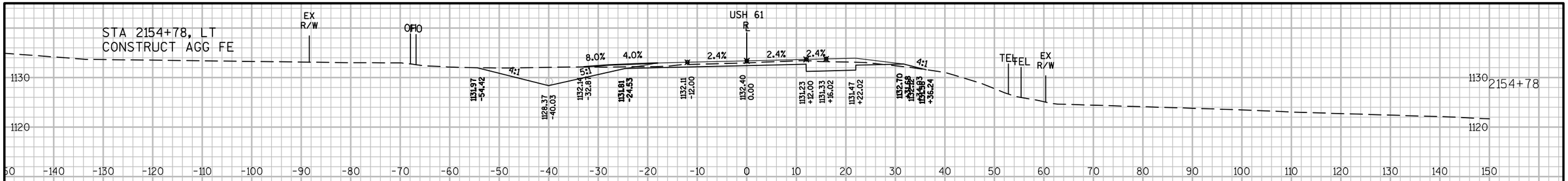
20 FT
20 FT

9 9

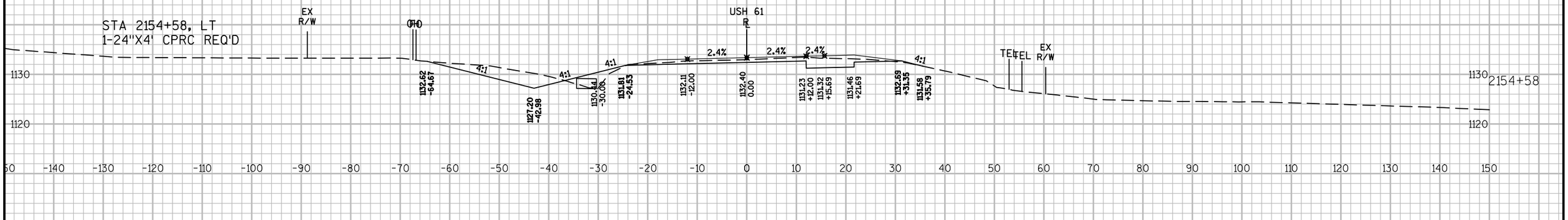
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 312	E

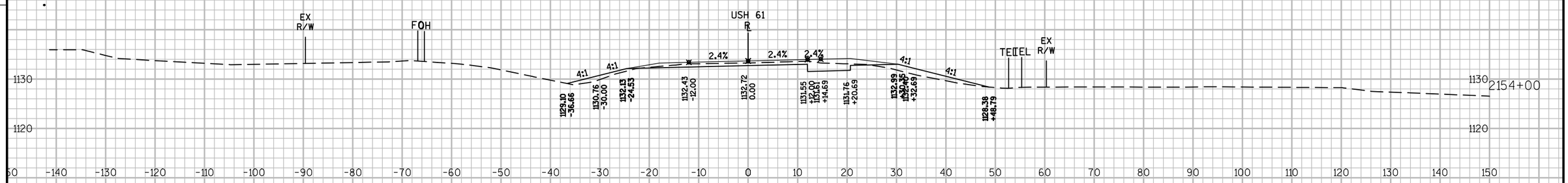
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:46 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

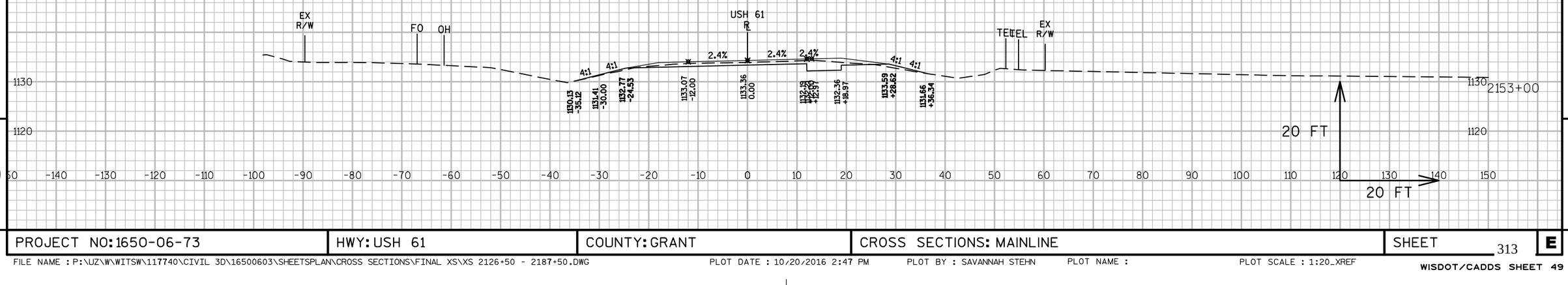
STA 2154+78, LT
CONSTRUCT AGG FE



STA 2154+58, LT
1-24"X4' CPRC REQ'D





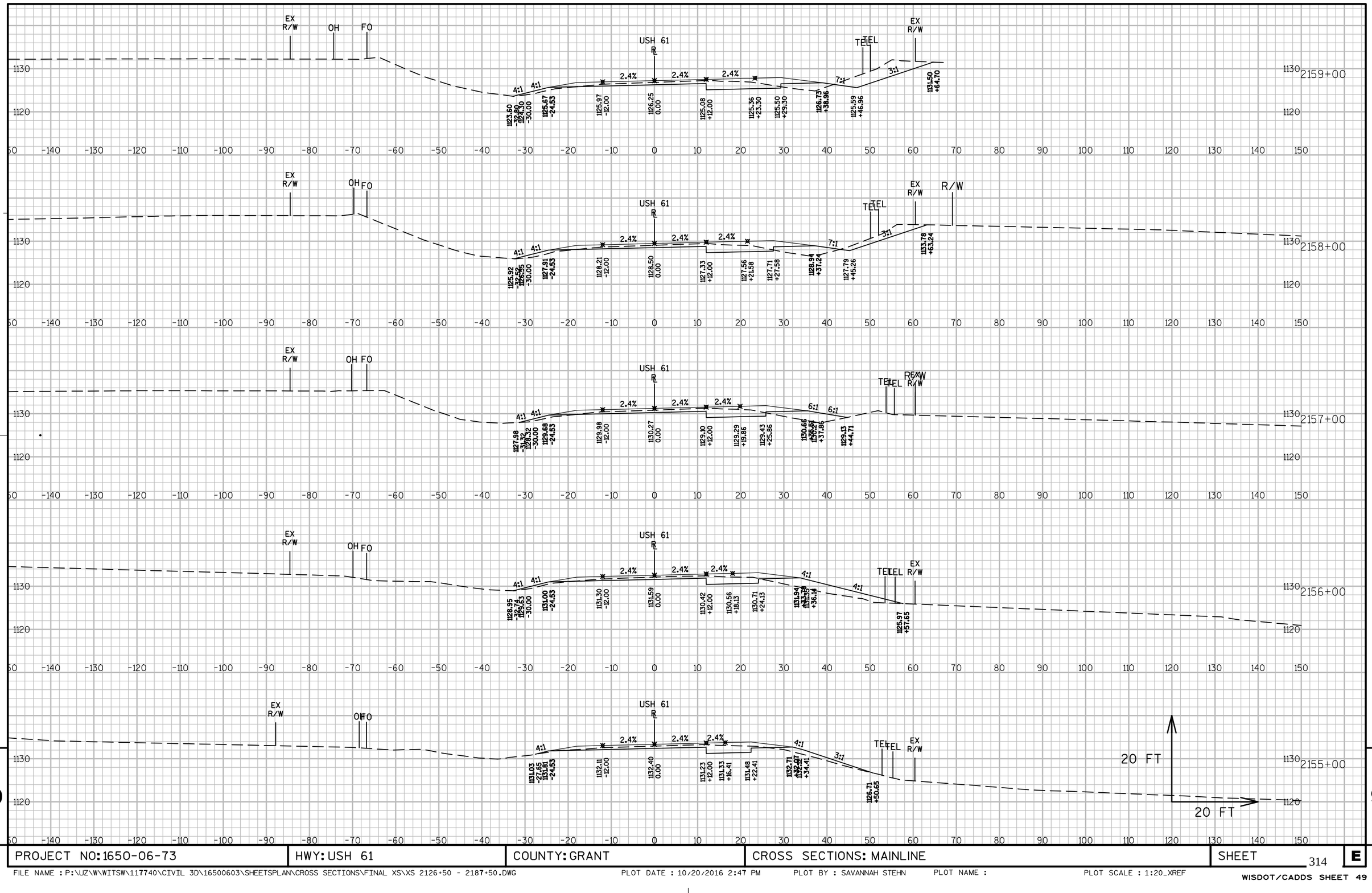


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 313	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:47 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



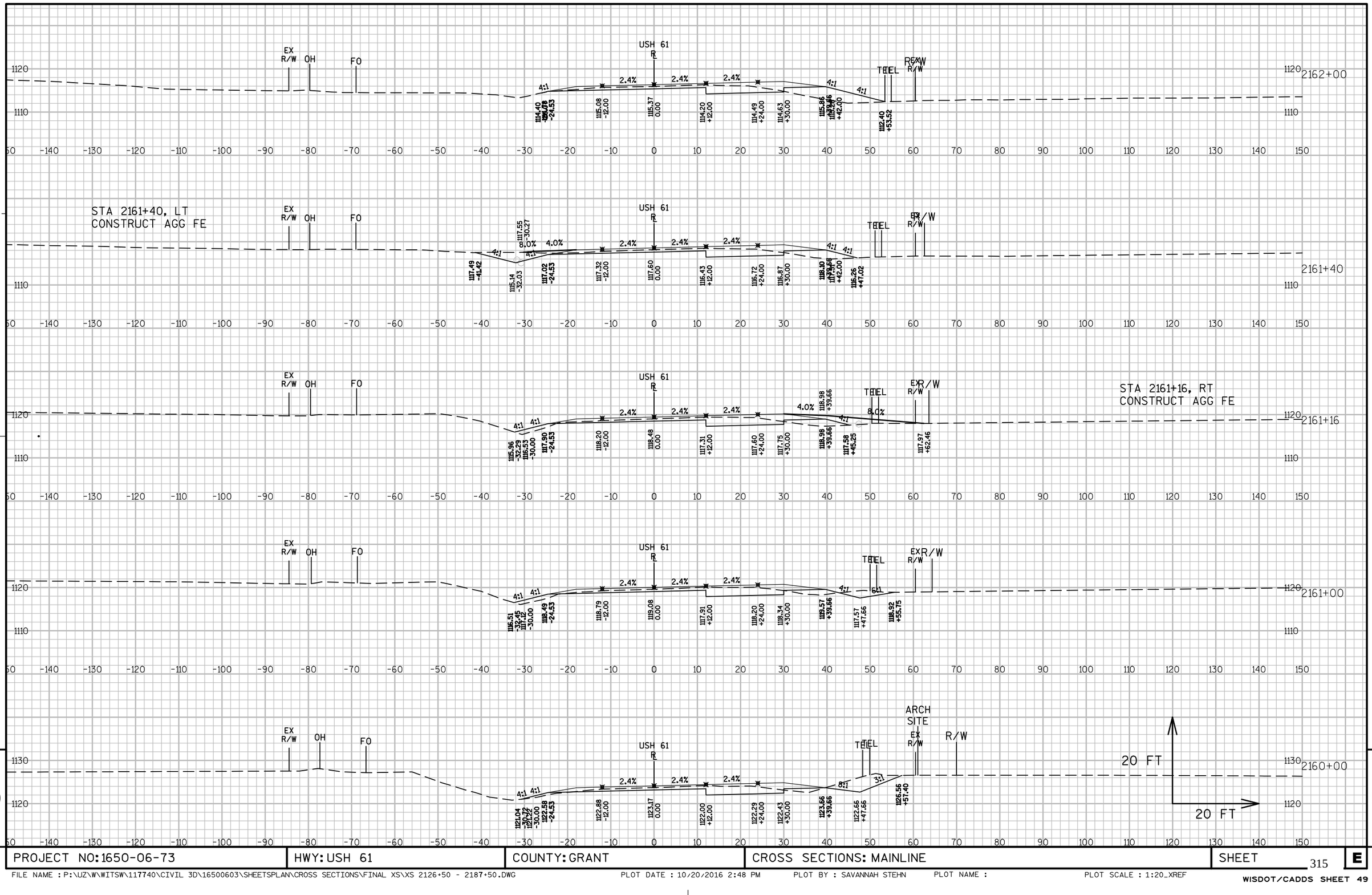
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 314	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:47 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

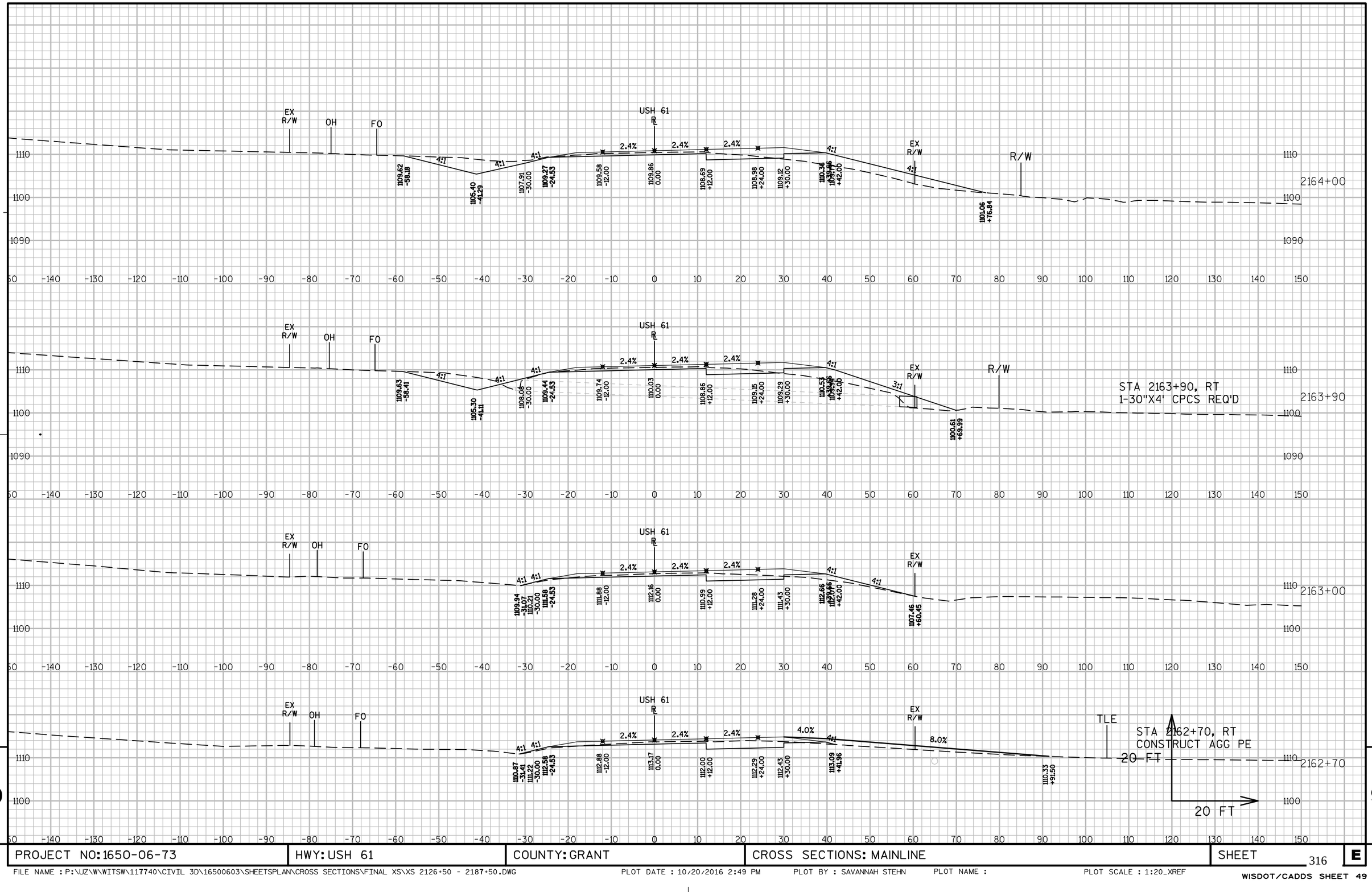


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 315	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:48 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



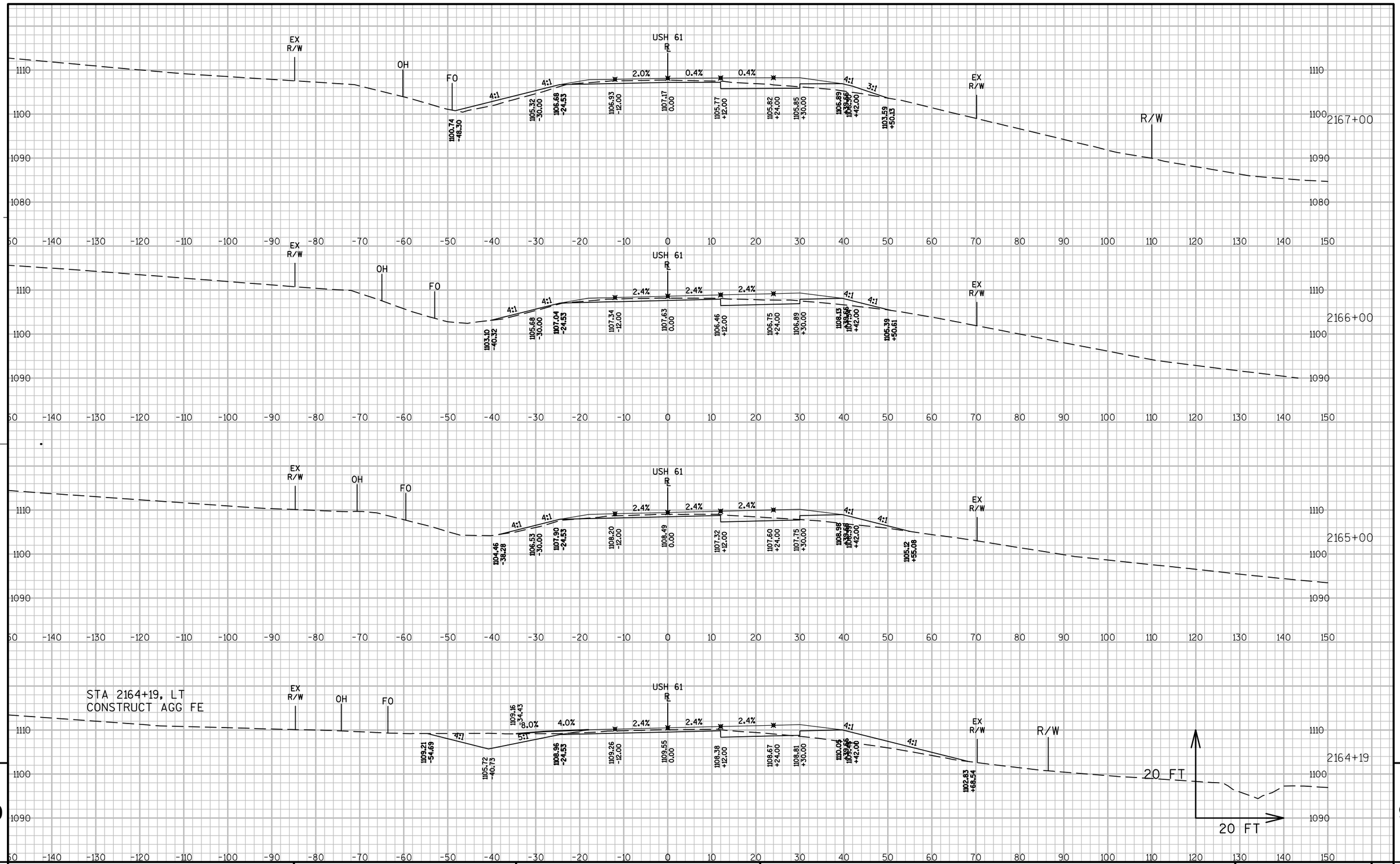
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 316	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:49 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

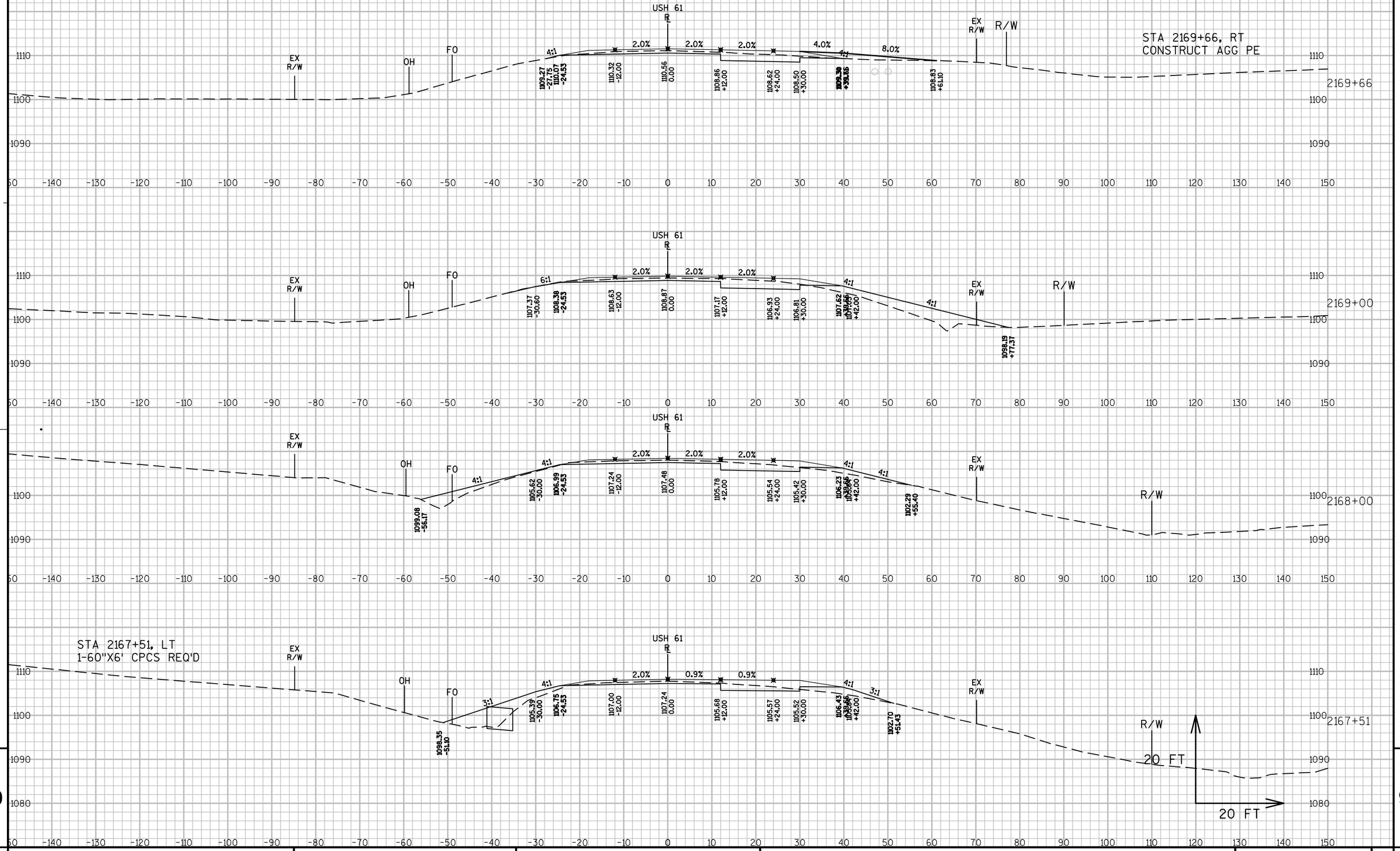


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 317	E

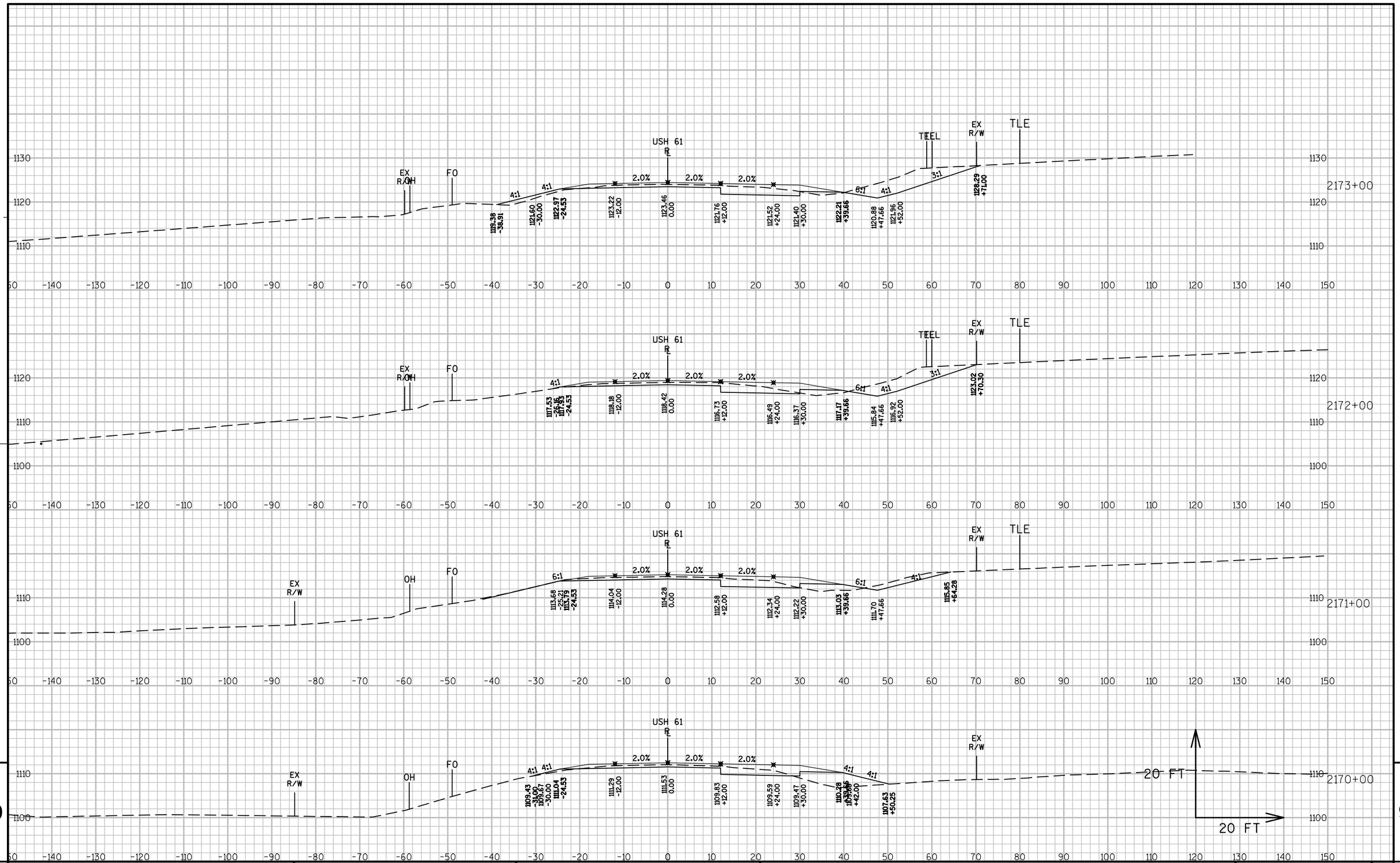
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:49 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 318 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:50 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

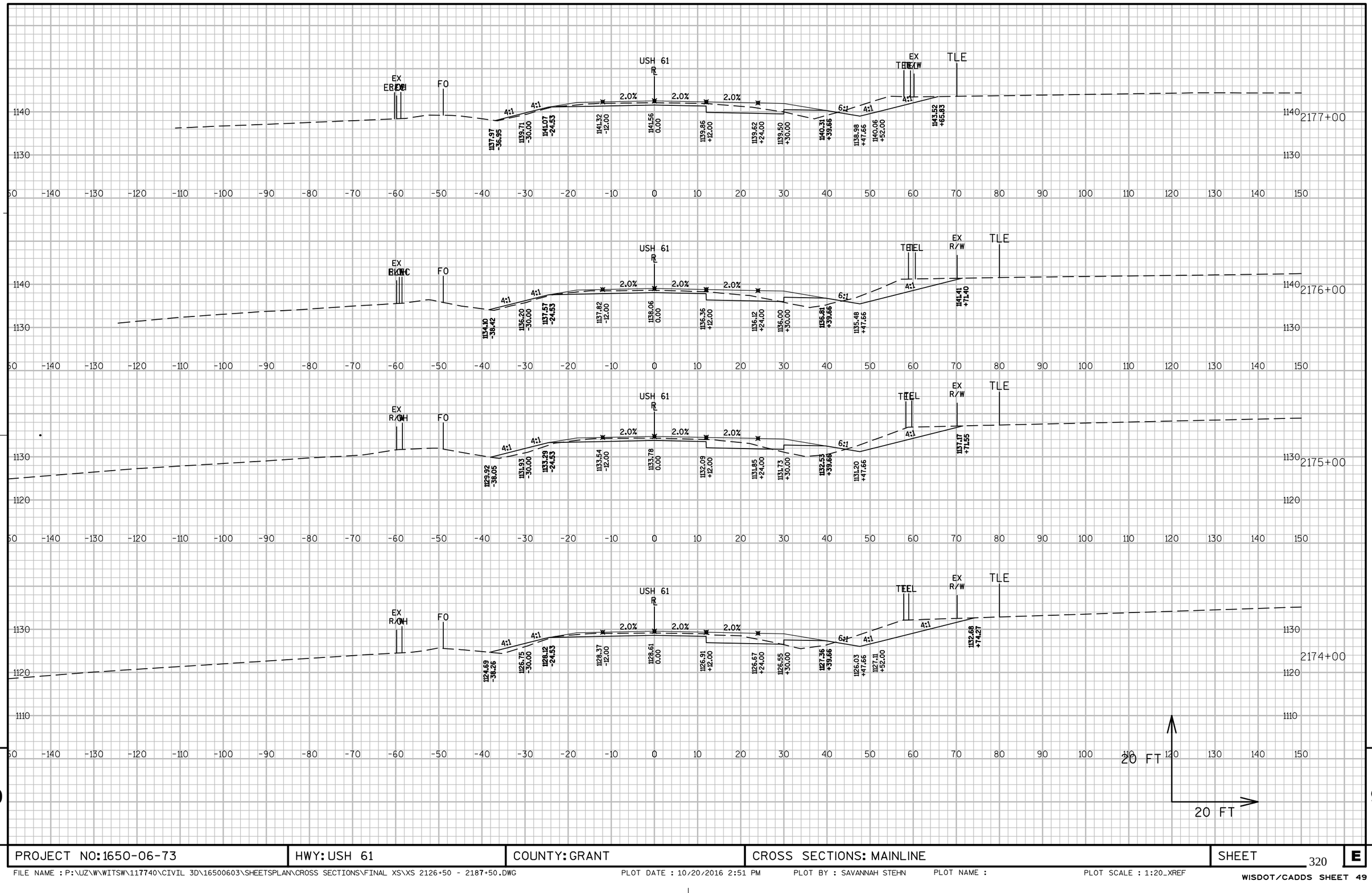


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 319	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:50 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



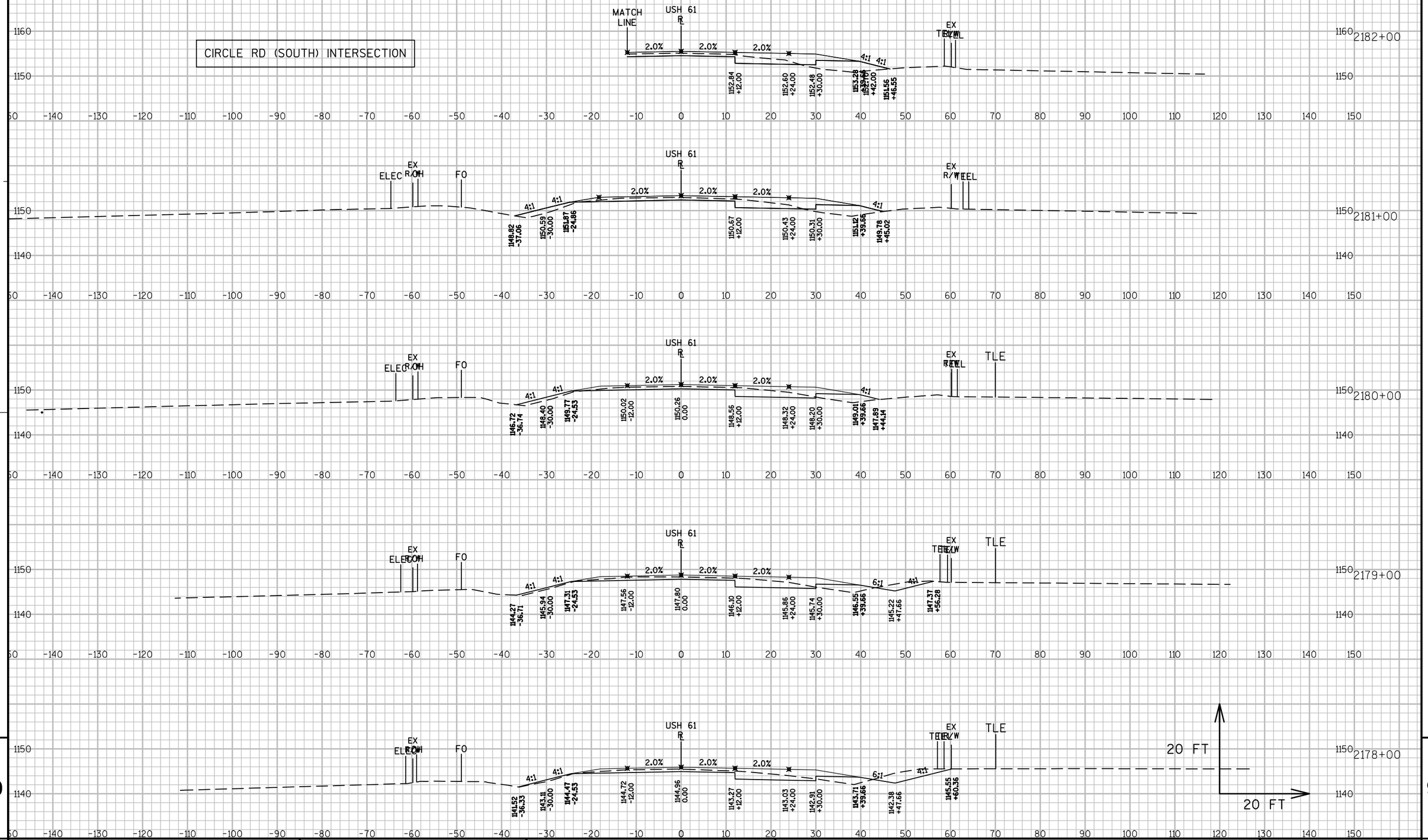
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 320	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:51 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

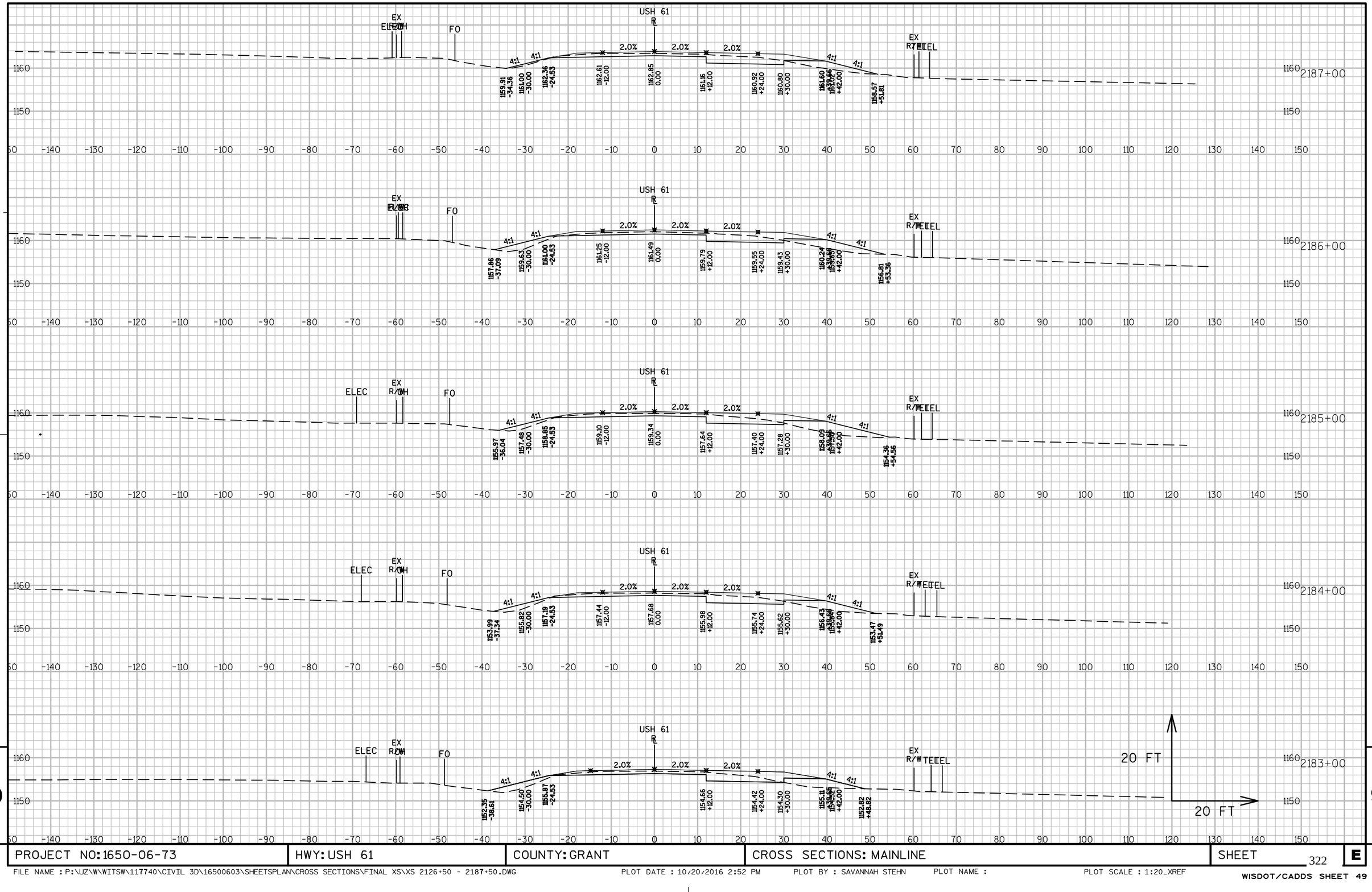
CIRCLE RD (SOUTH) INTERSECTION



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 321	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:52 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



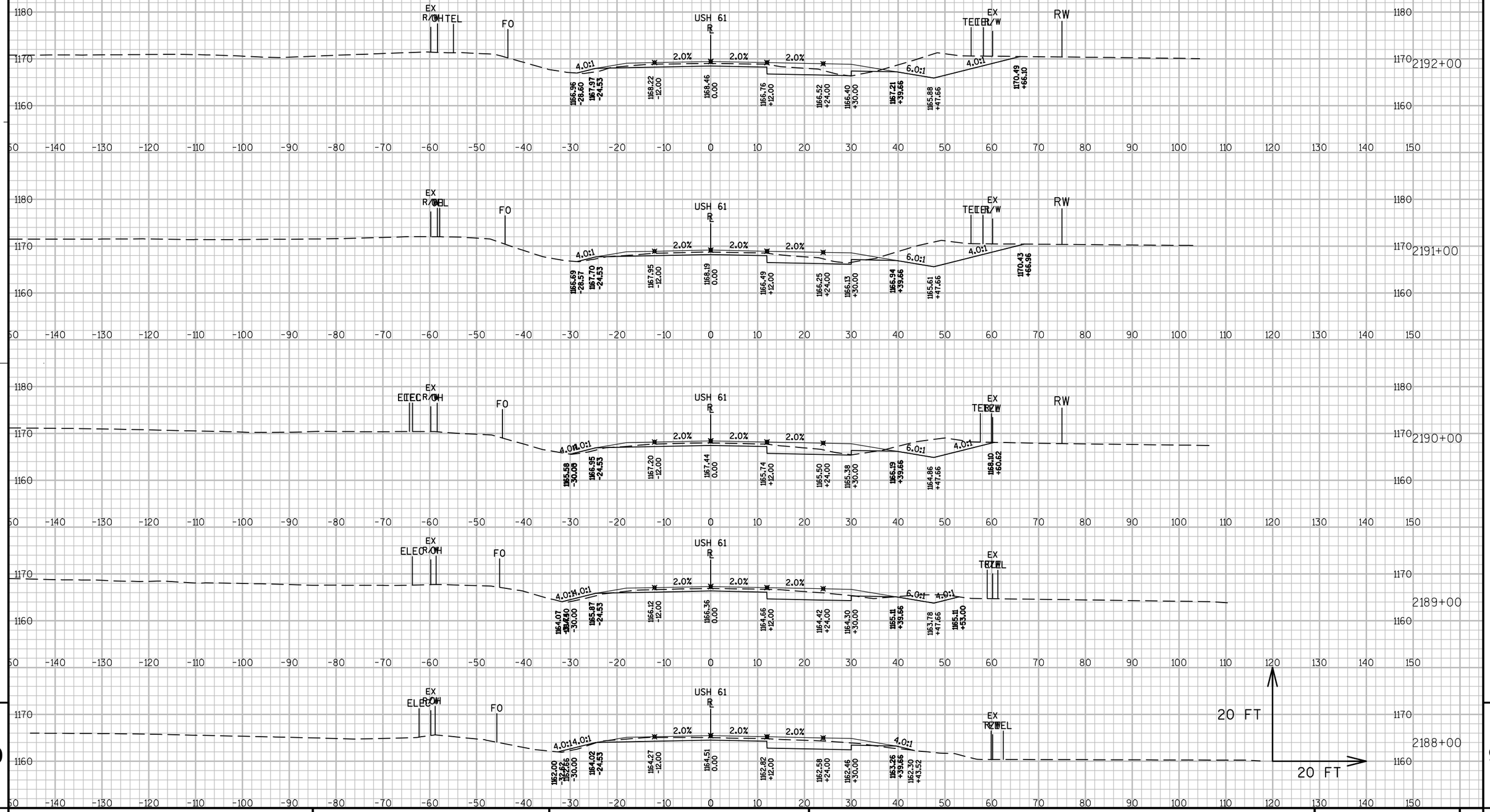
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 322	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2126+50 - 2187+50.DWG PLOT DATE : 10/20/2016 2:52 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

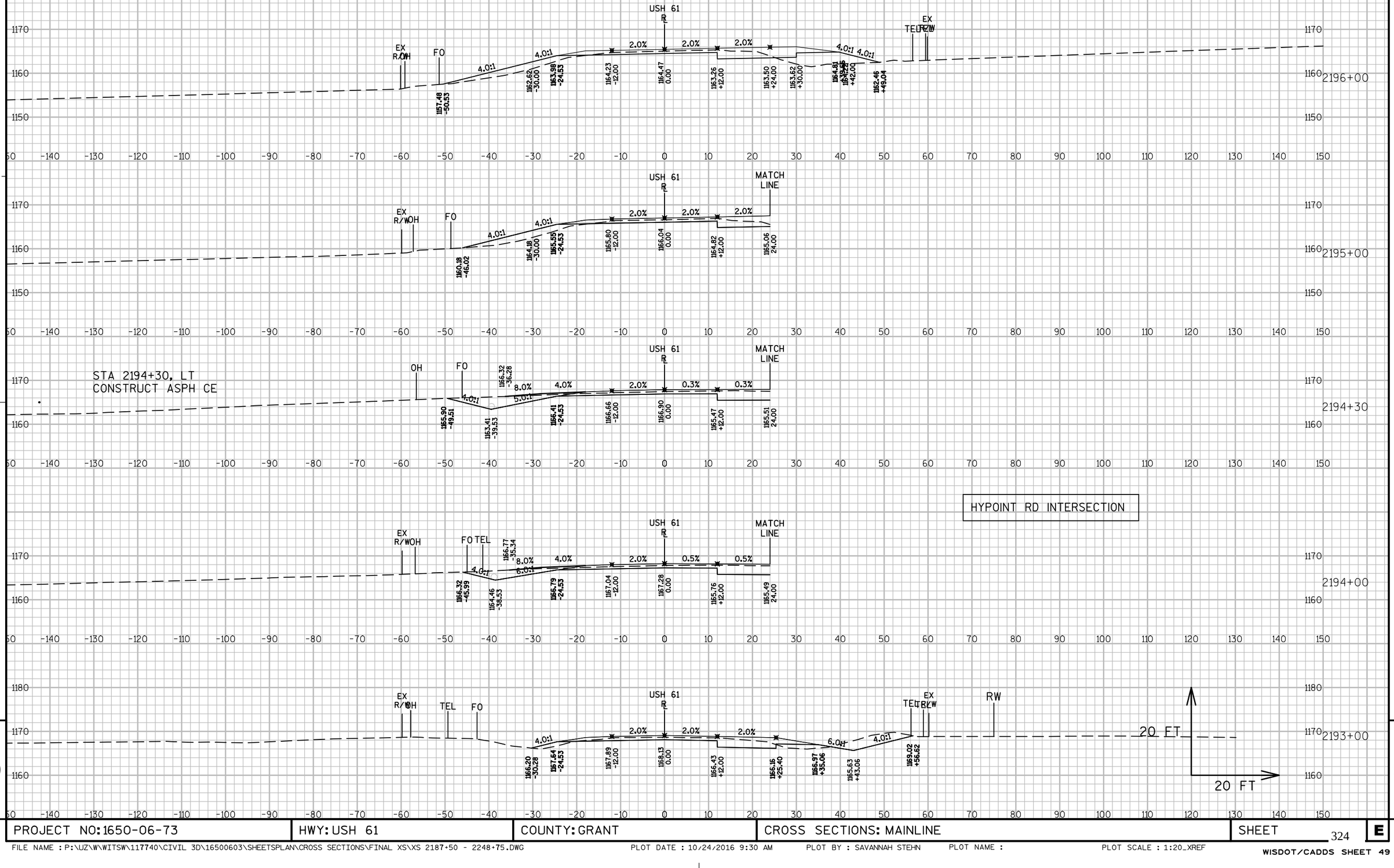
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 323	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:29 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

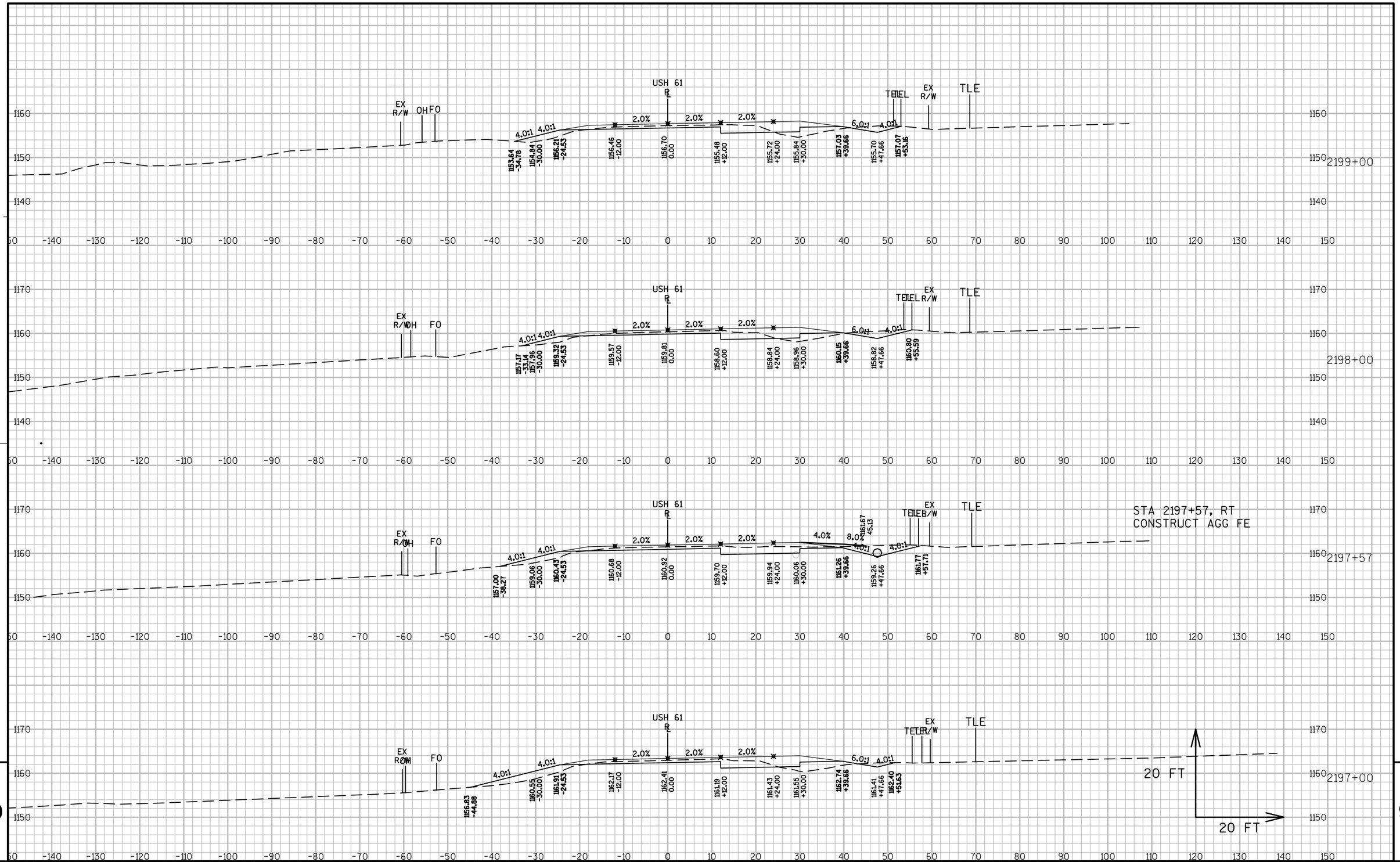


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 324	E

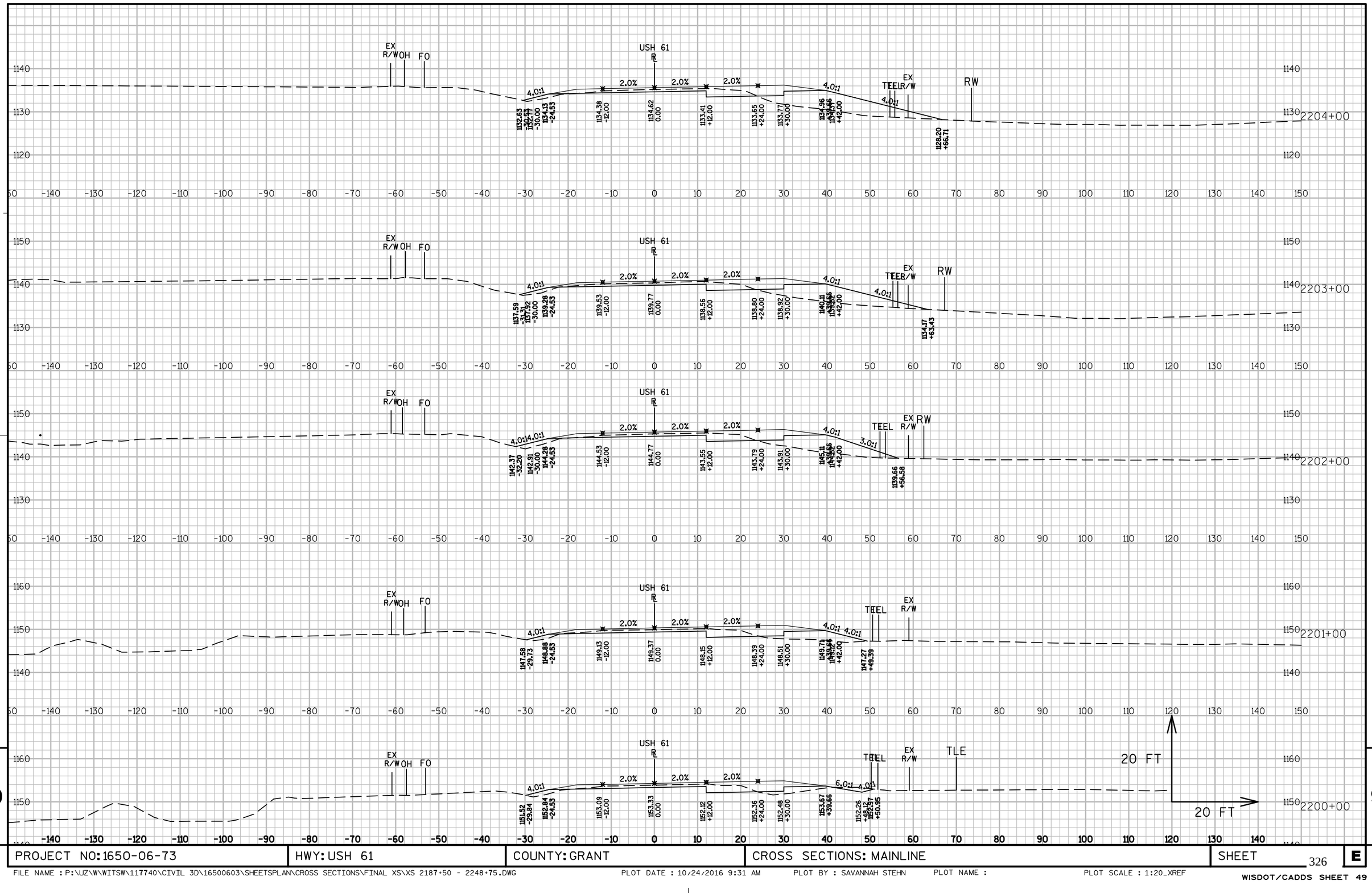
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:30 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 325	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:31 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



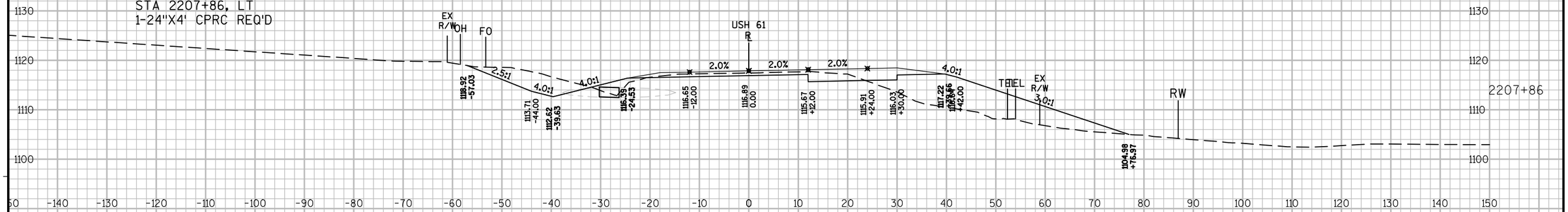
9

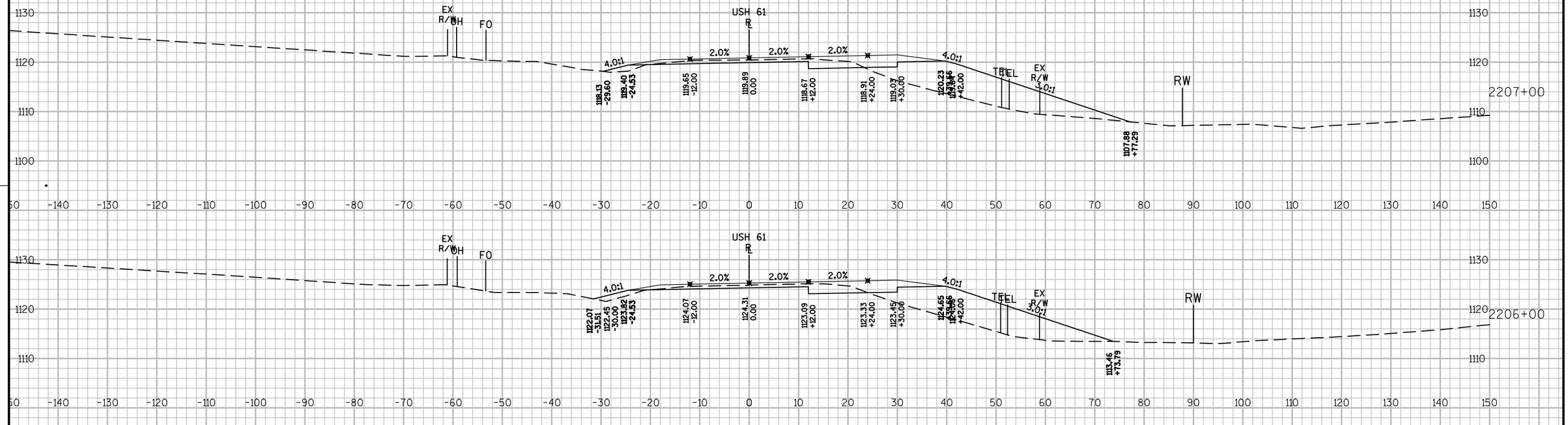
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 326	E

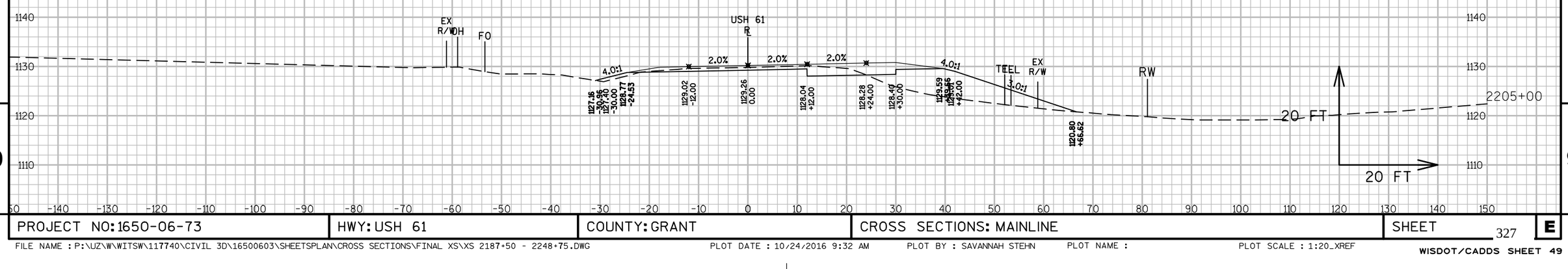
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:31 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

STA 2207+86, LT
1-24"X4' CPRC REQ'D



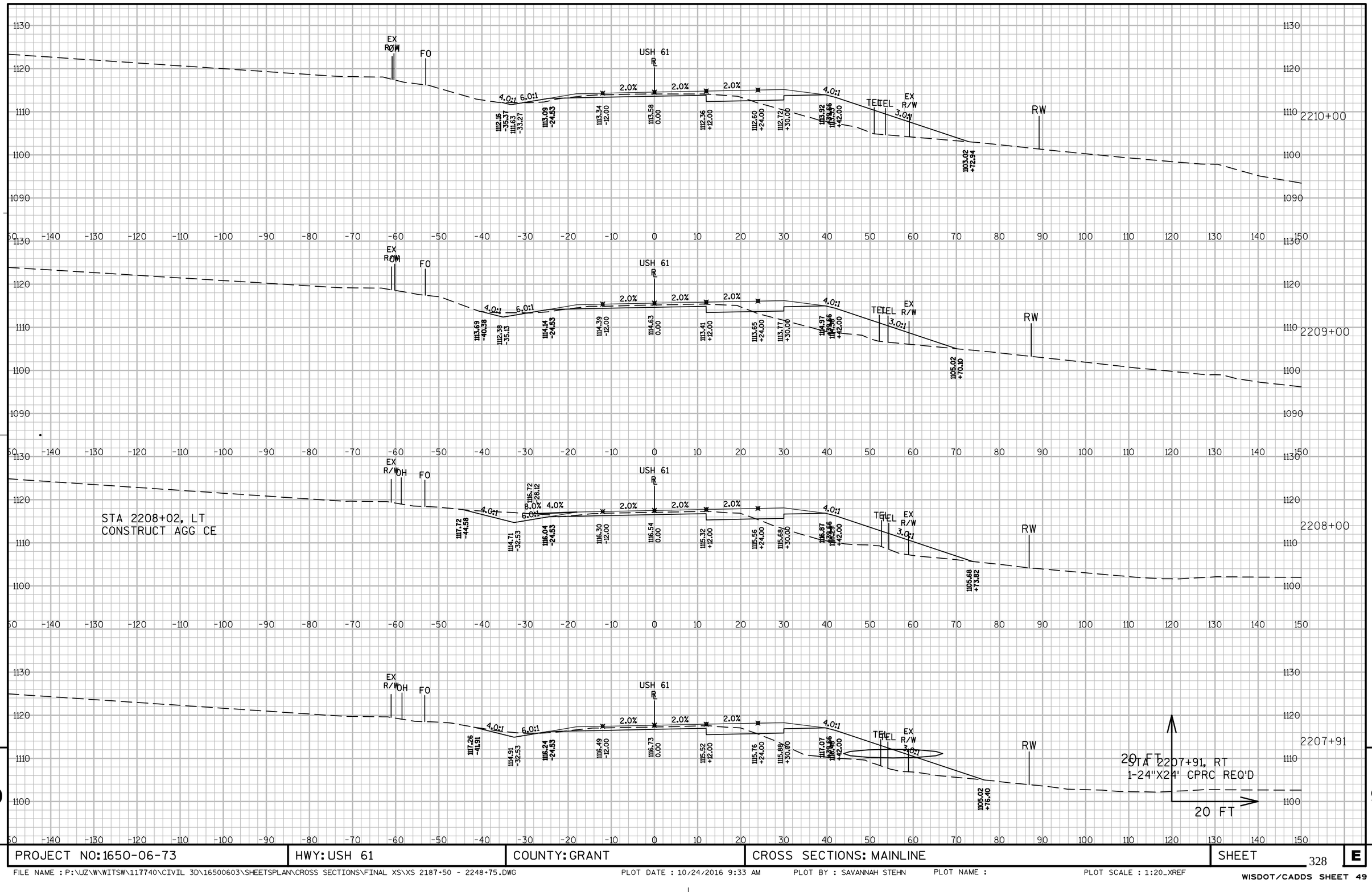




9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 327	E



9

9

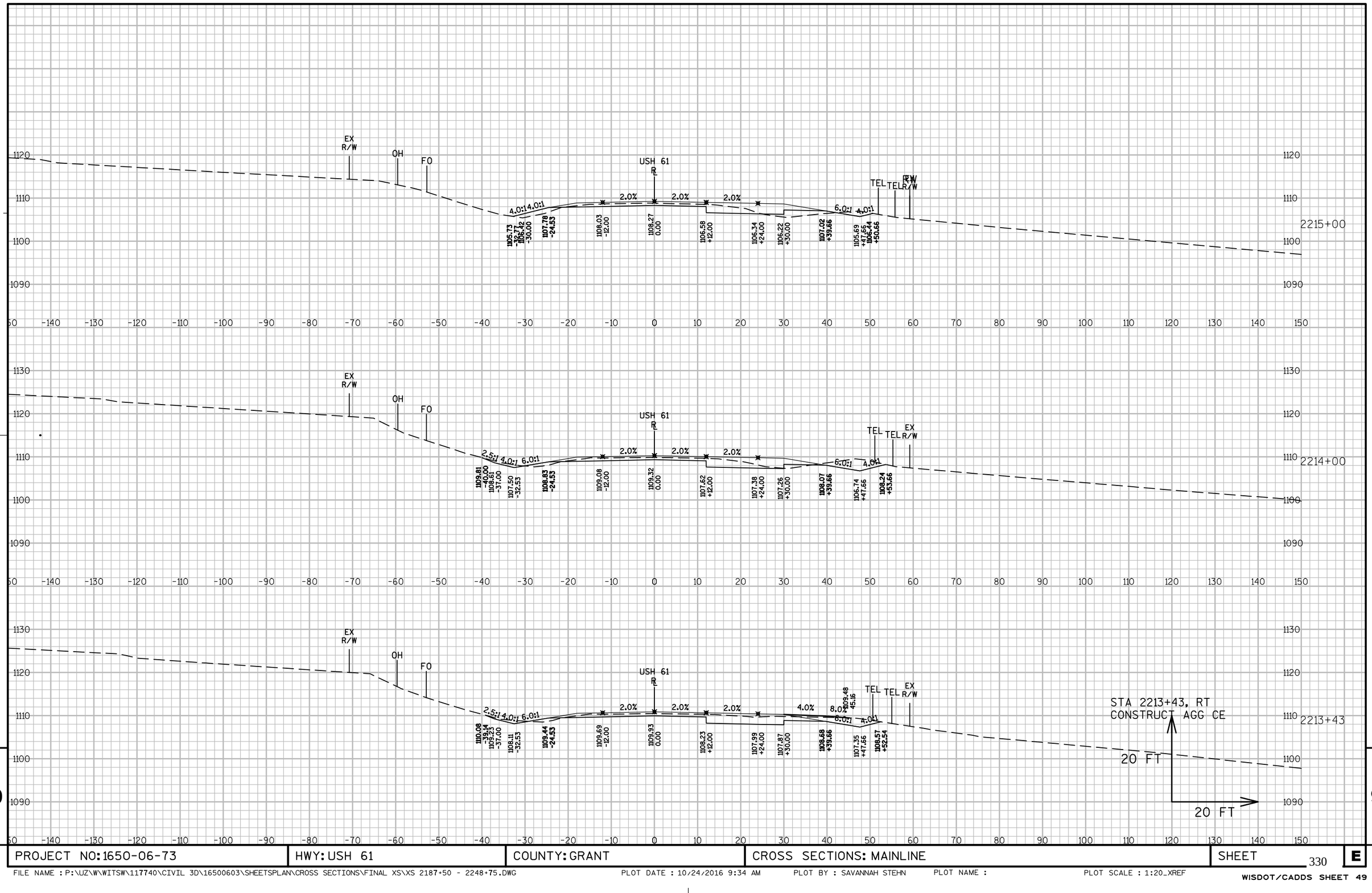
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 328	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:33 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

9

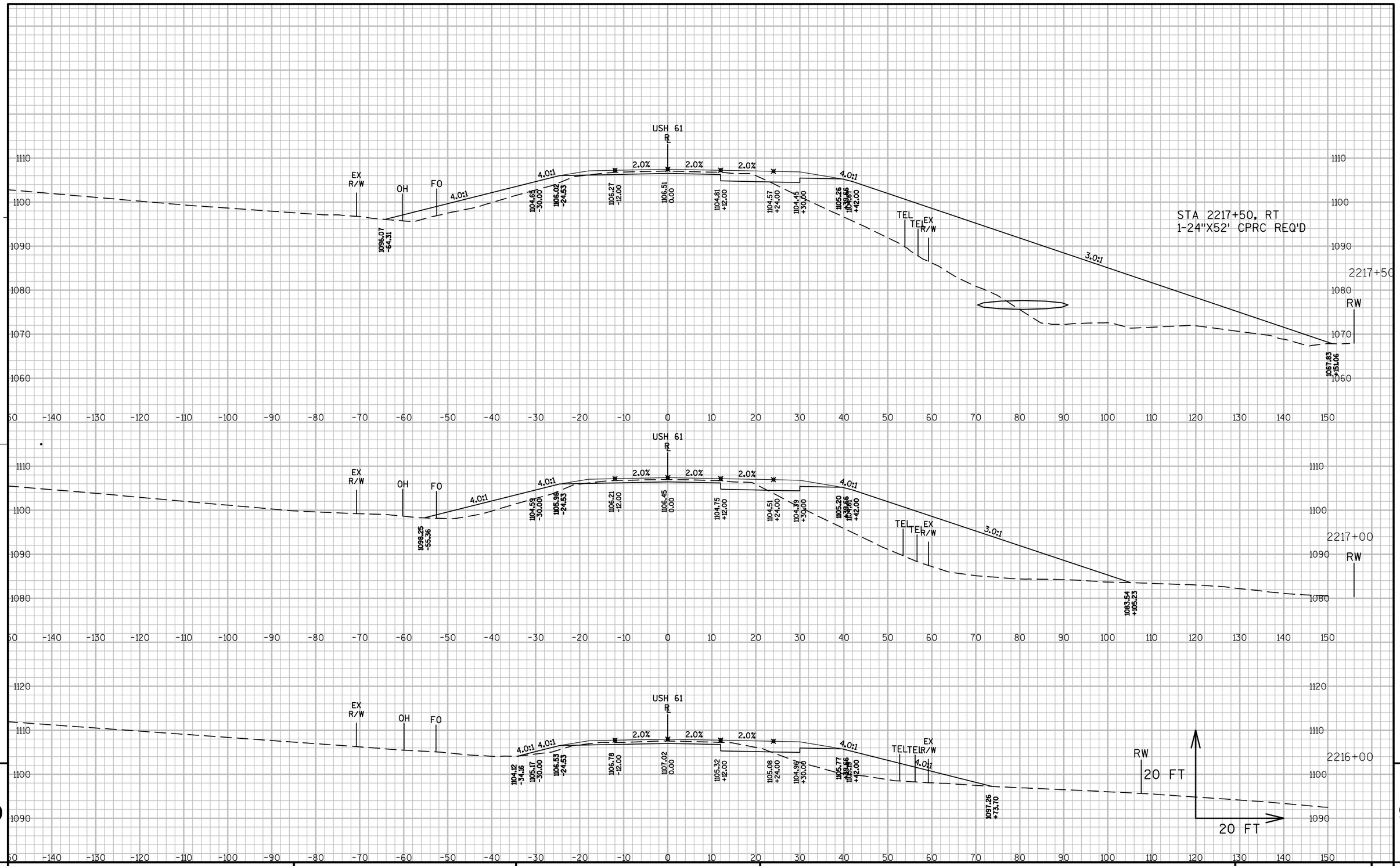
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 329	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 330	E

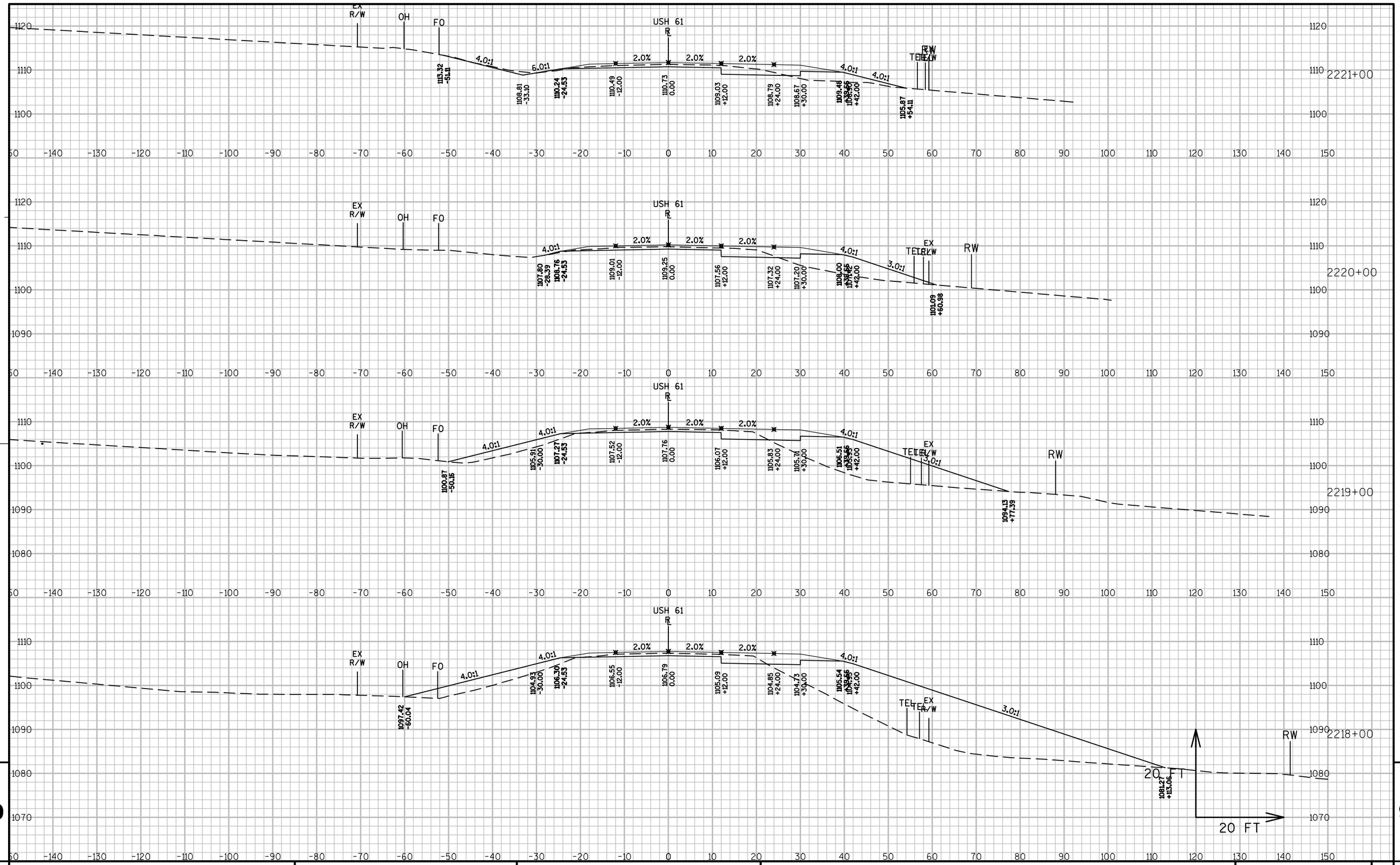
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:34 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 331 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:35 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

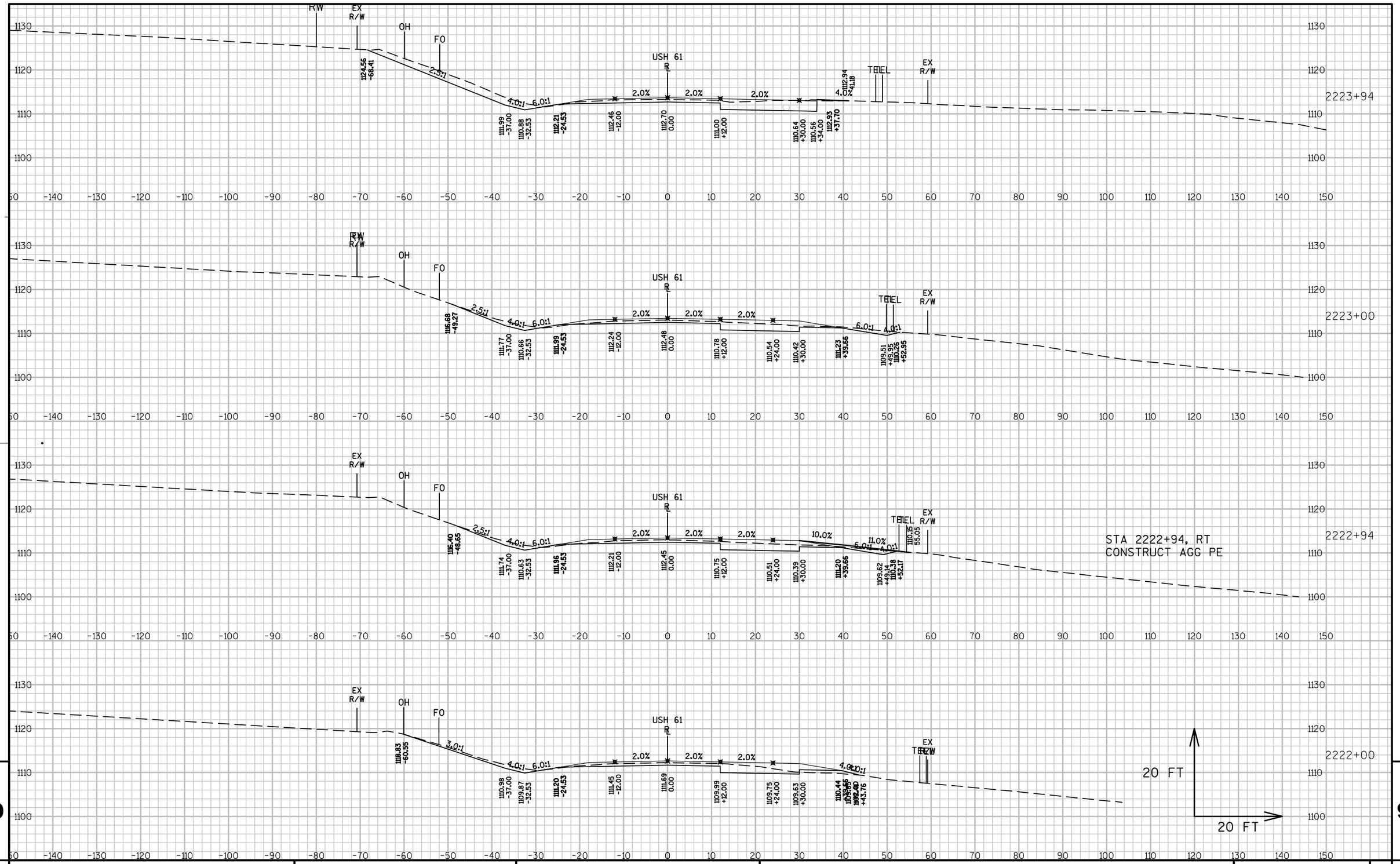
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 332	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:36 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

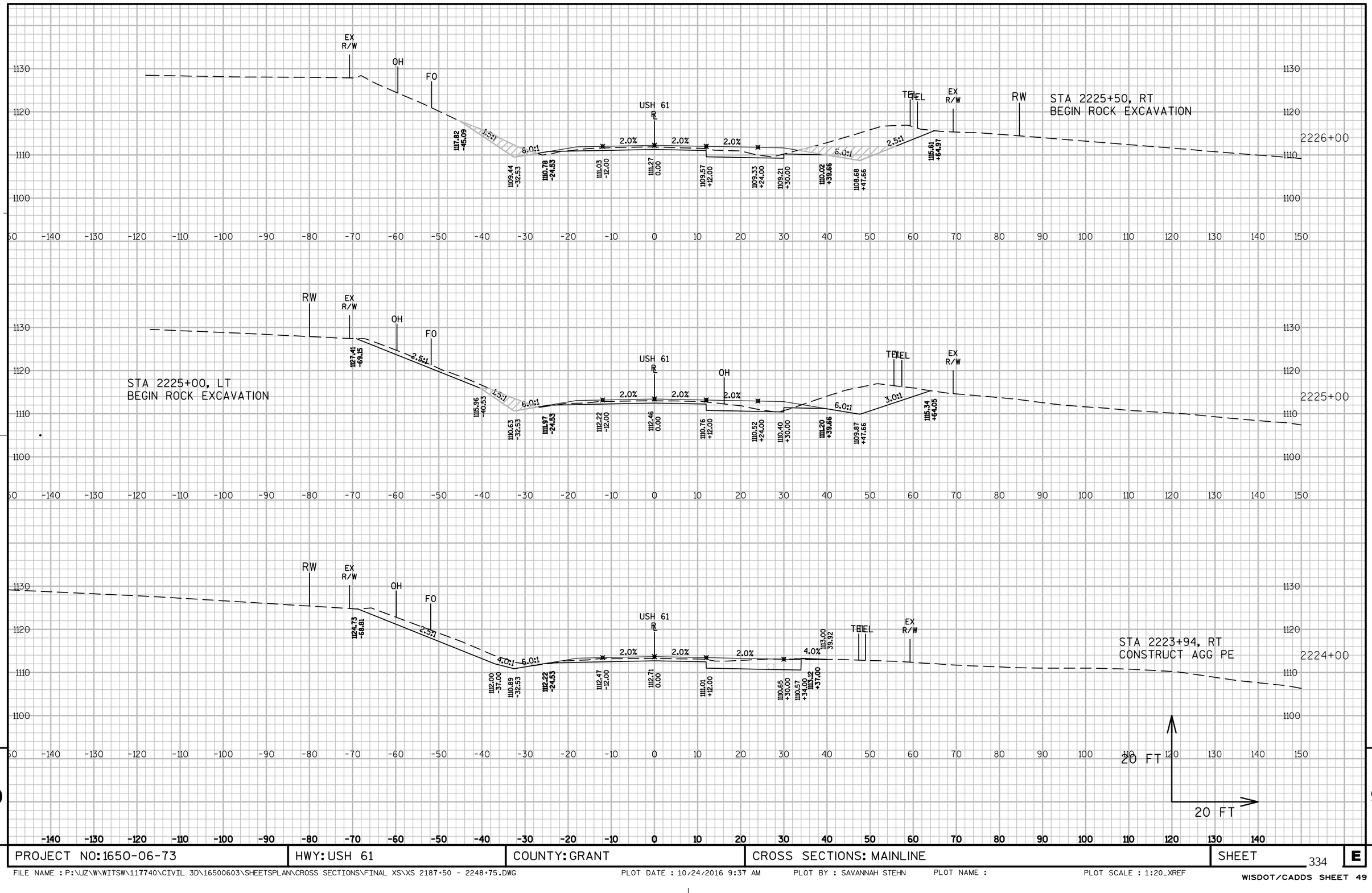


9

9

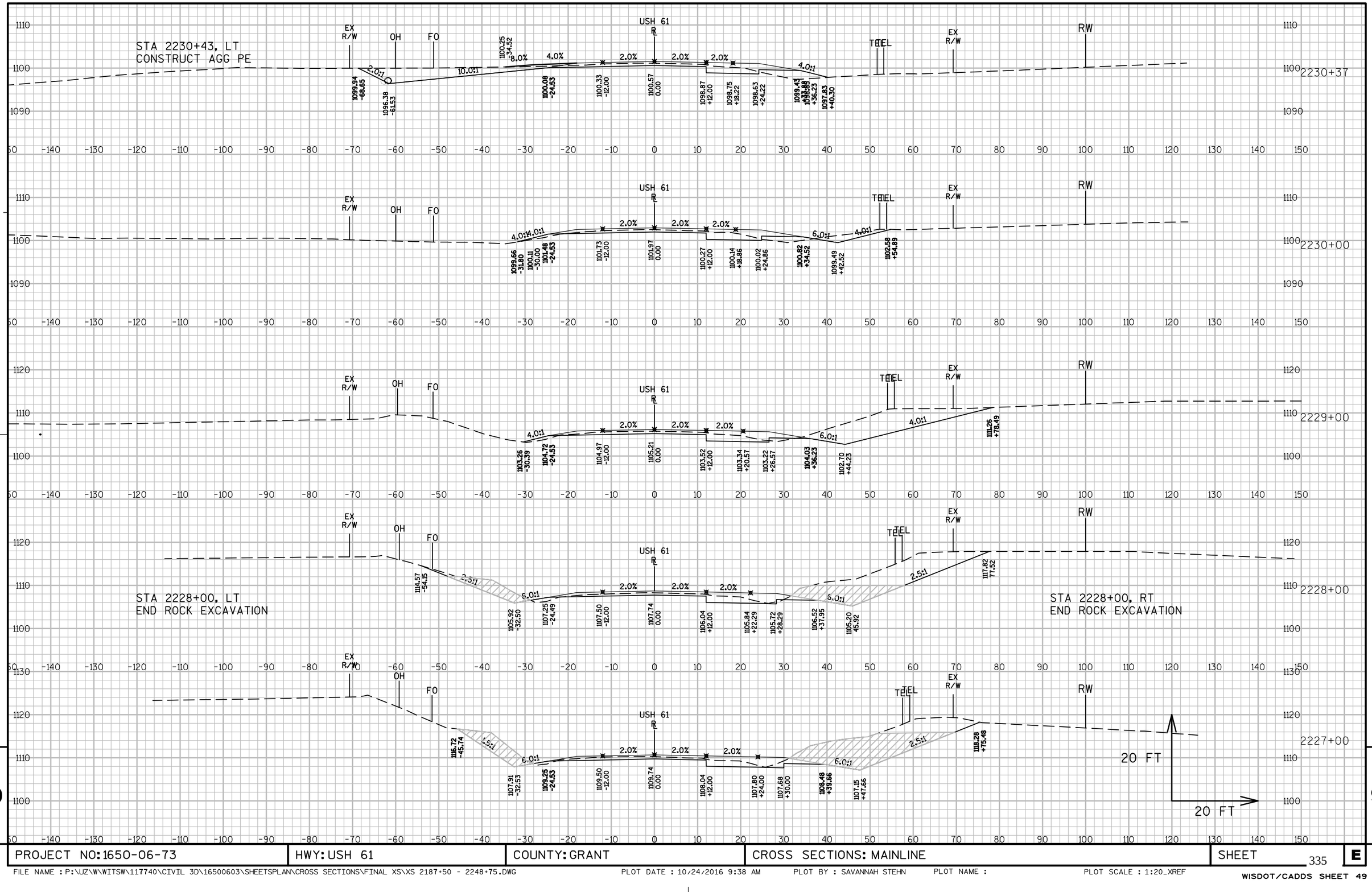
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 333	E

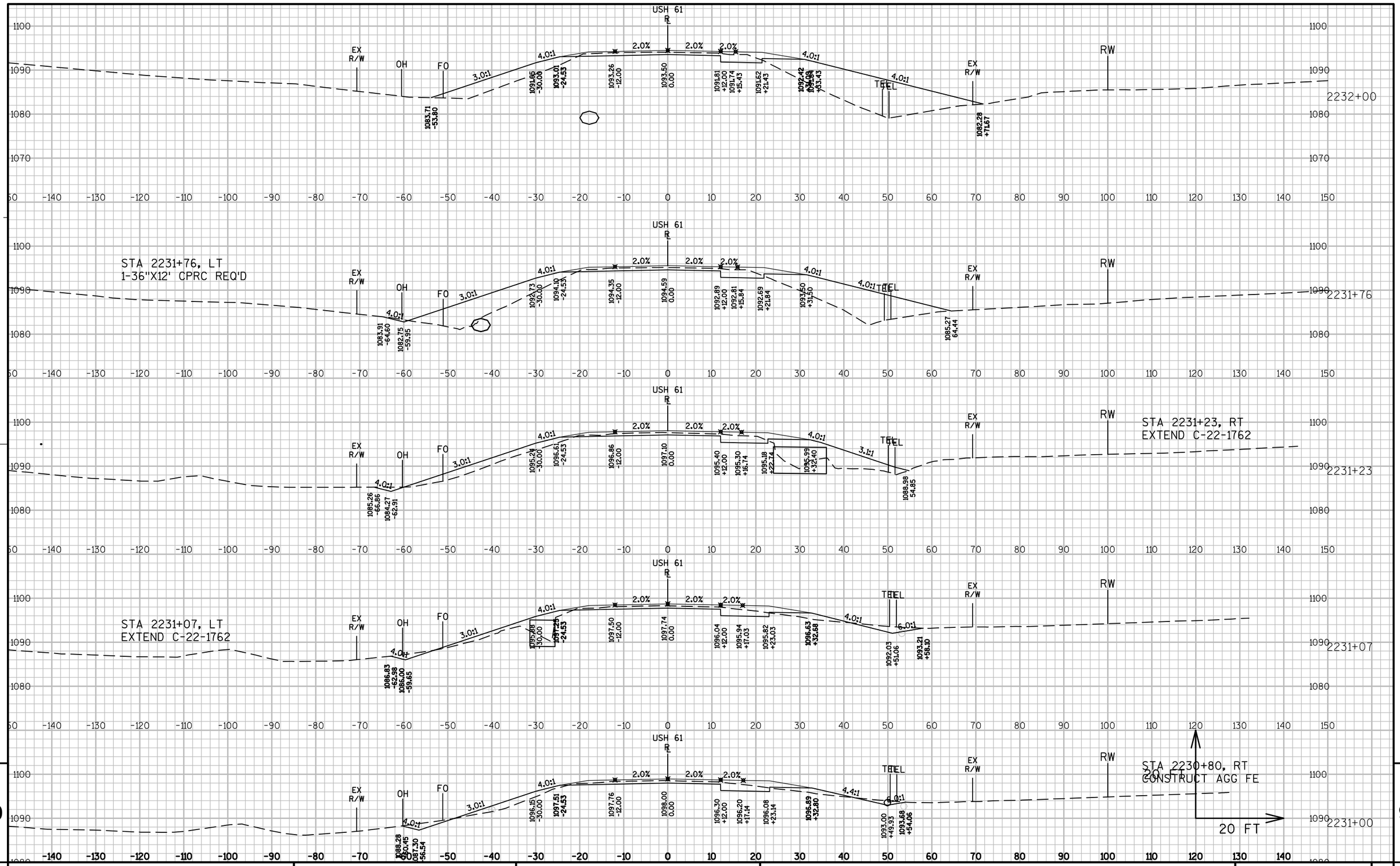
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:37 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 334	E


STA 2230+43, LT
CONSTRUCT AGG PE
EX R/W
OH
FO
USH 61
TEL
RW
2230+37
2230+00
2229+00
STA 2228+00, LT
END ROCK EXCAVATION
STA 2228+00, RT
END ROCK EXCAVATION
2228+00
2227+00
20 FT
20 FT

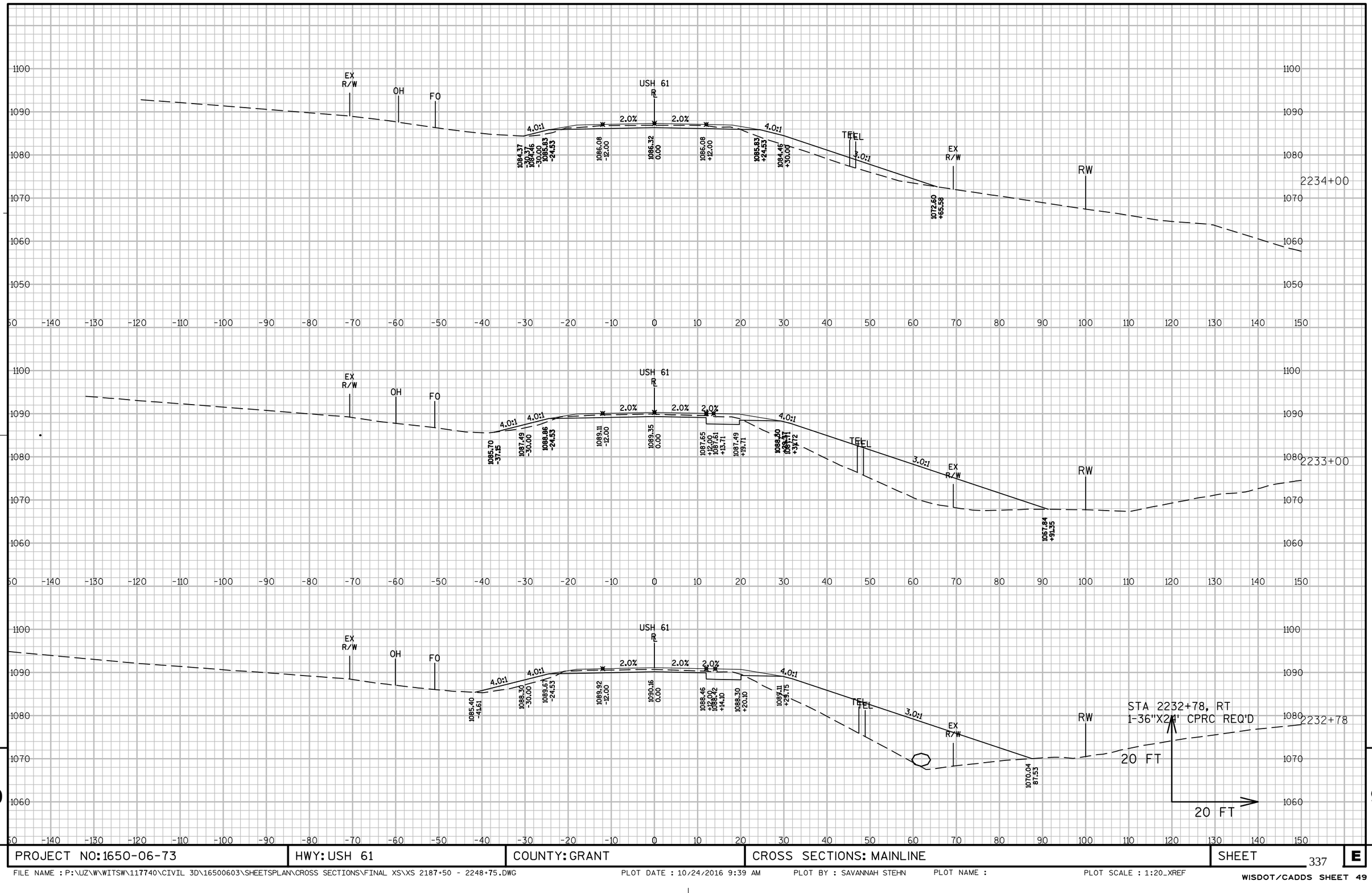


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 336	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:39 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

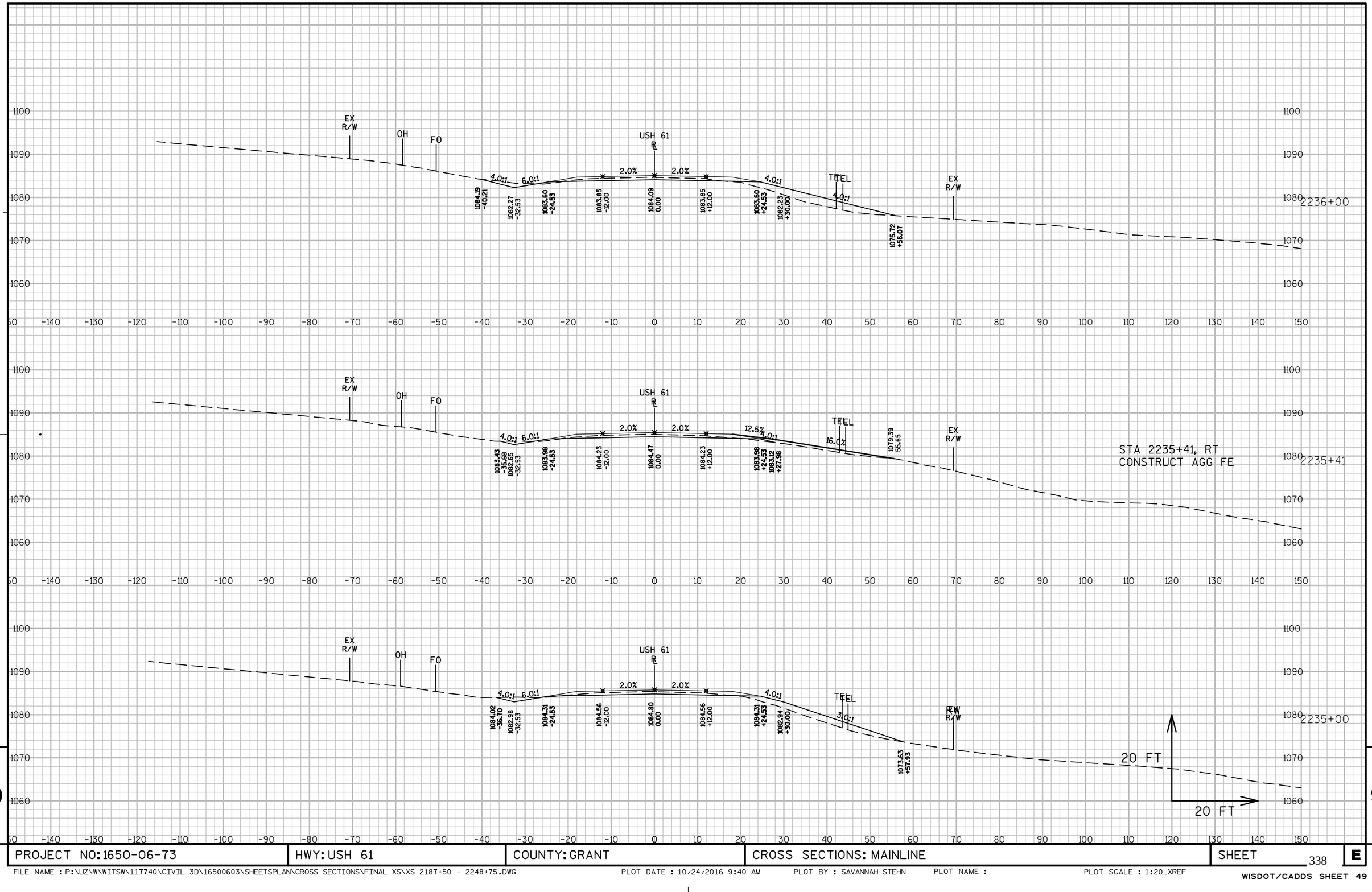
WISDOT/CADDS SHEET 49



9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 337	E

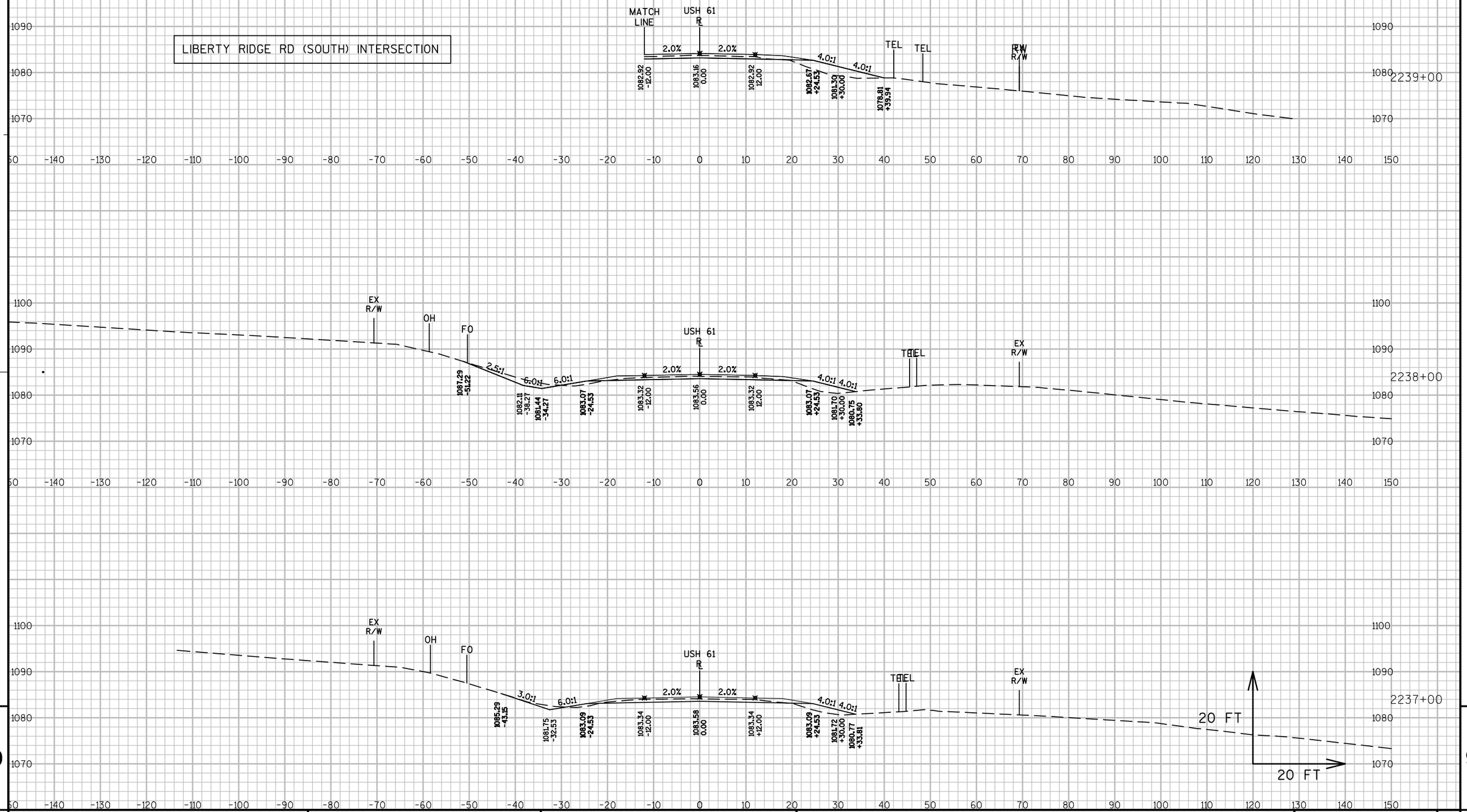
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:39 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 338	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:40 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

LIBERTY RIDGE RD (SOUTH) INTERSECTION

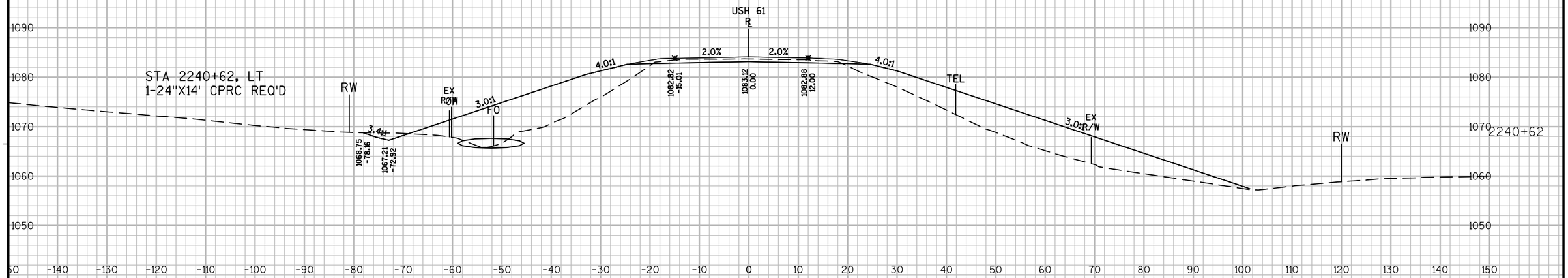


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 339	E

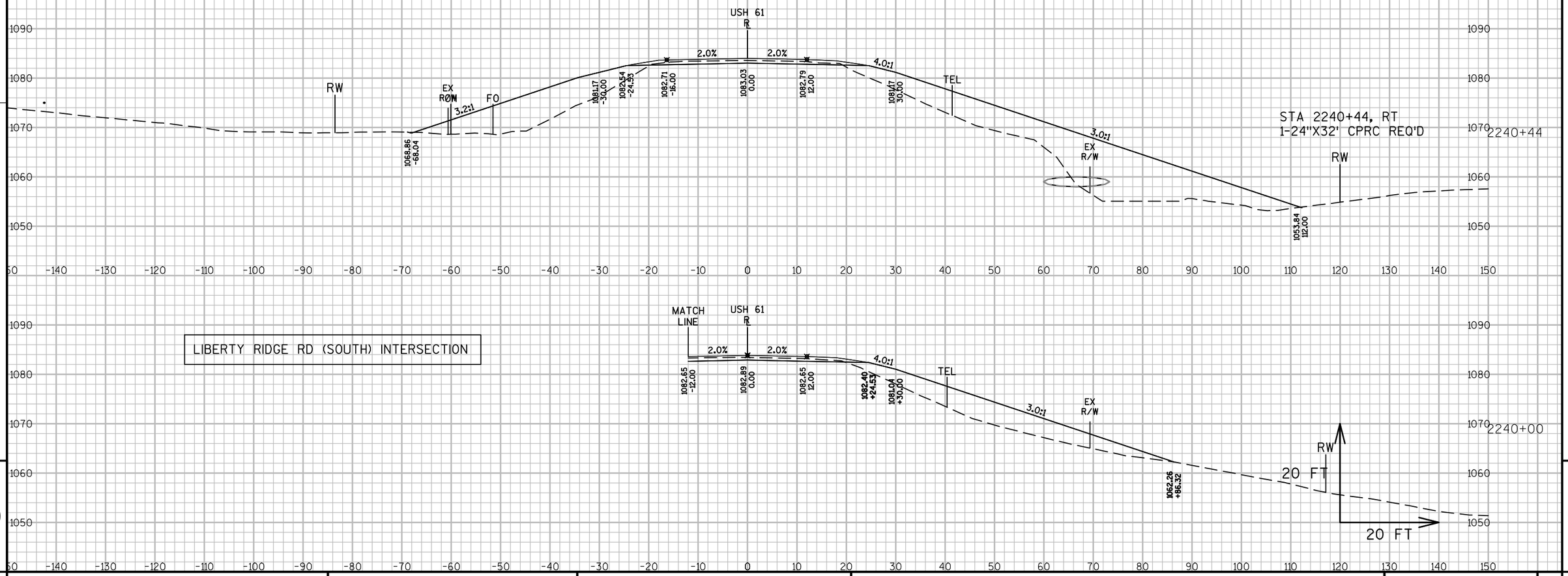
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:40 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

STA 2240+62, LT
1-24"X14' CPRC REQ'D



STA 2240+44, RT
1-24"X32' CPRC REQ'D



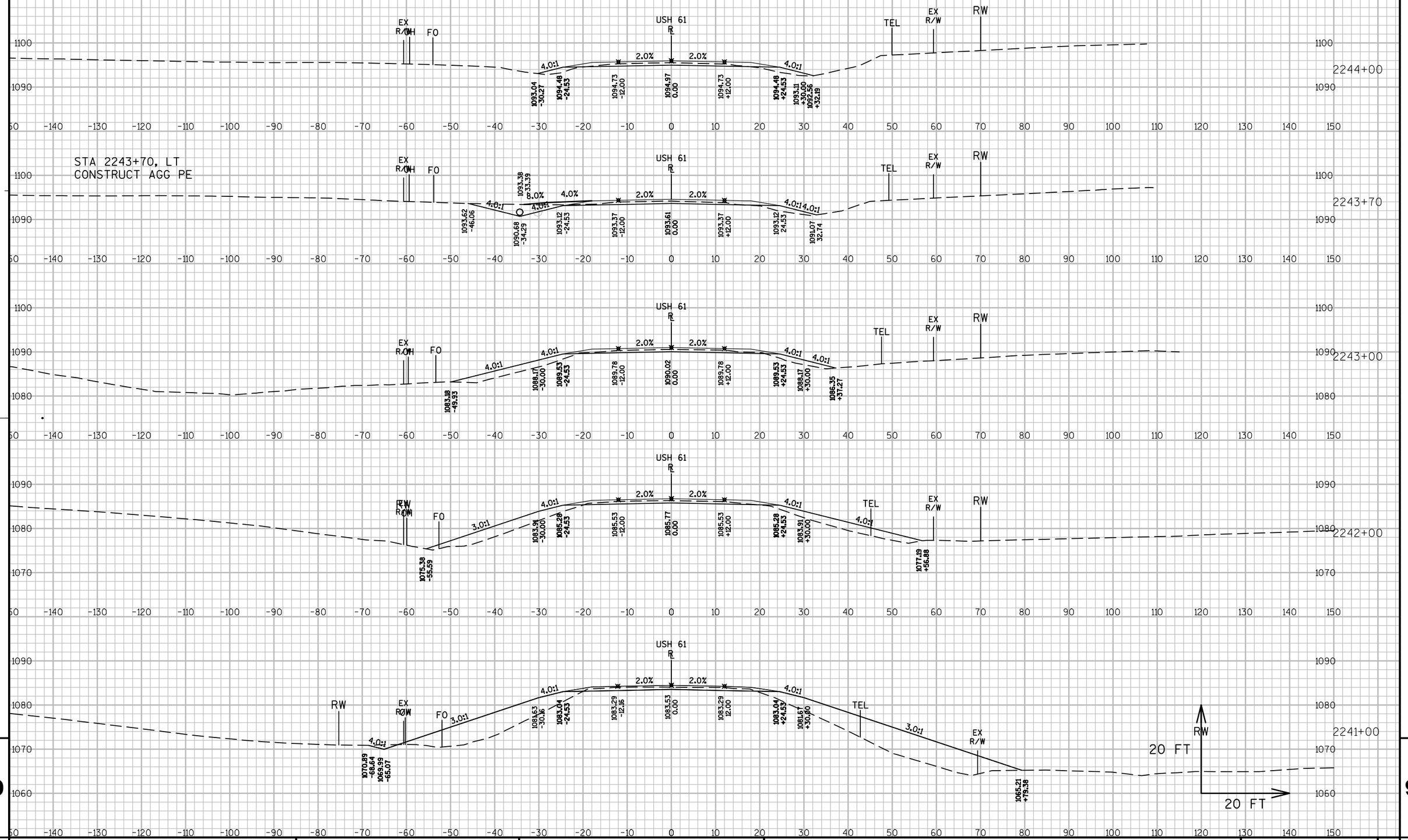
LIBERTY RIDGE RD (SOUTH) INTERSECTION

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 340	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:41 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

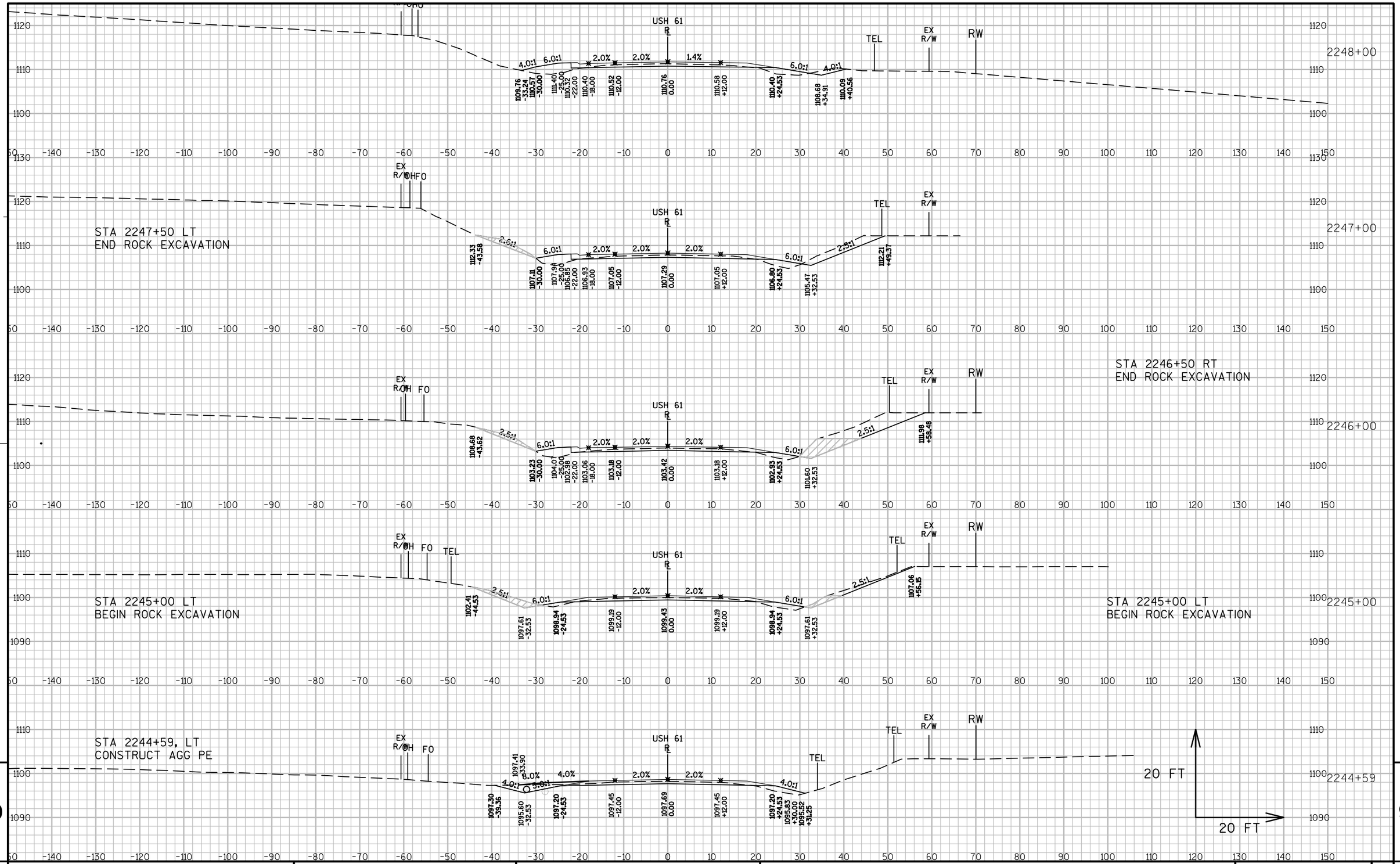
STA 2243+70, LT
CONSTRUCT AGG PE



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 341	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:42 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

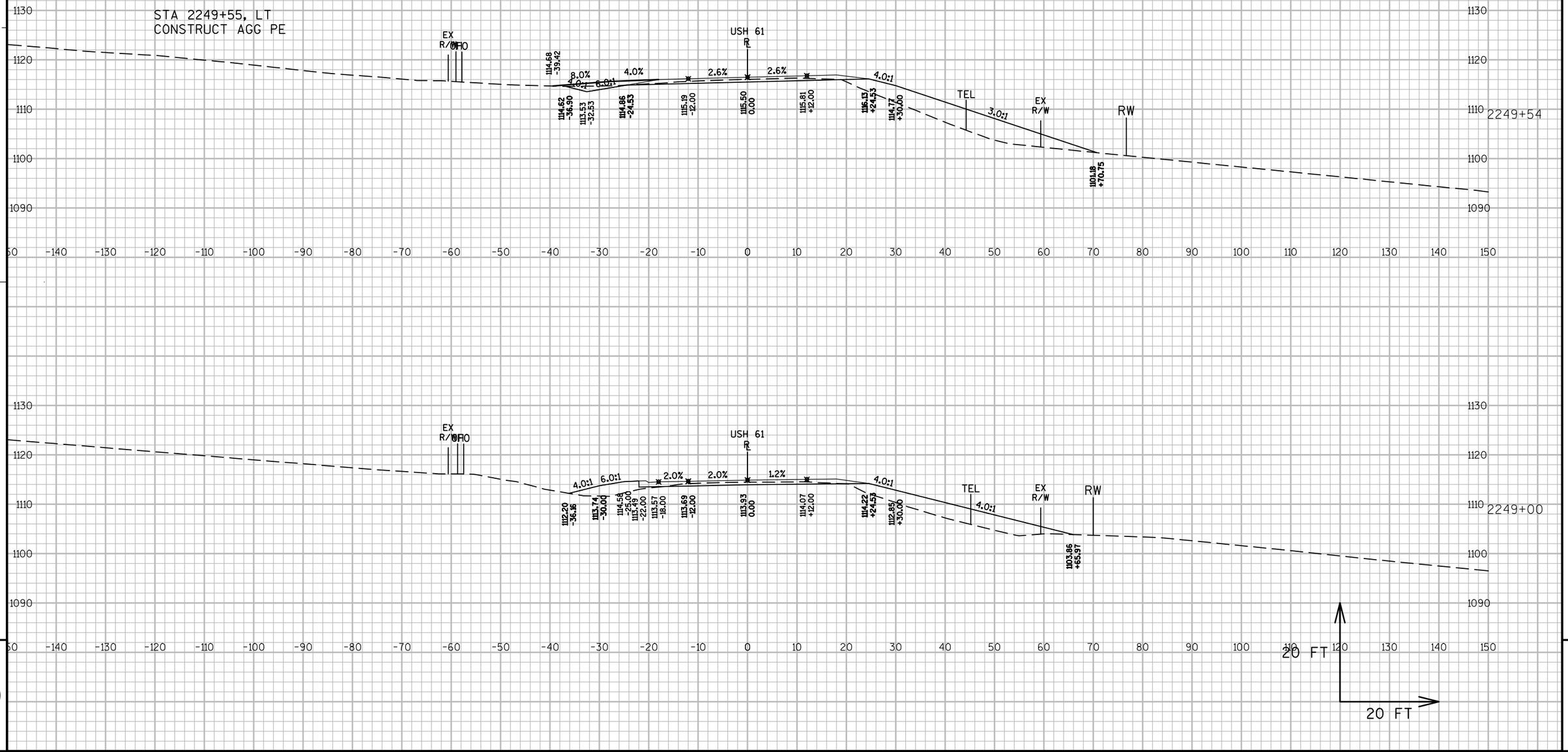
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 342	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2187+50 - 2248+75.DWG PLOT DATE : 10/24/2016 9:42 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

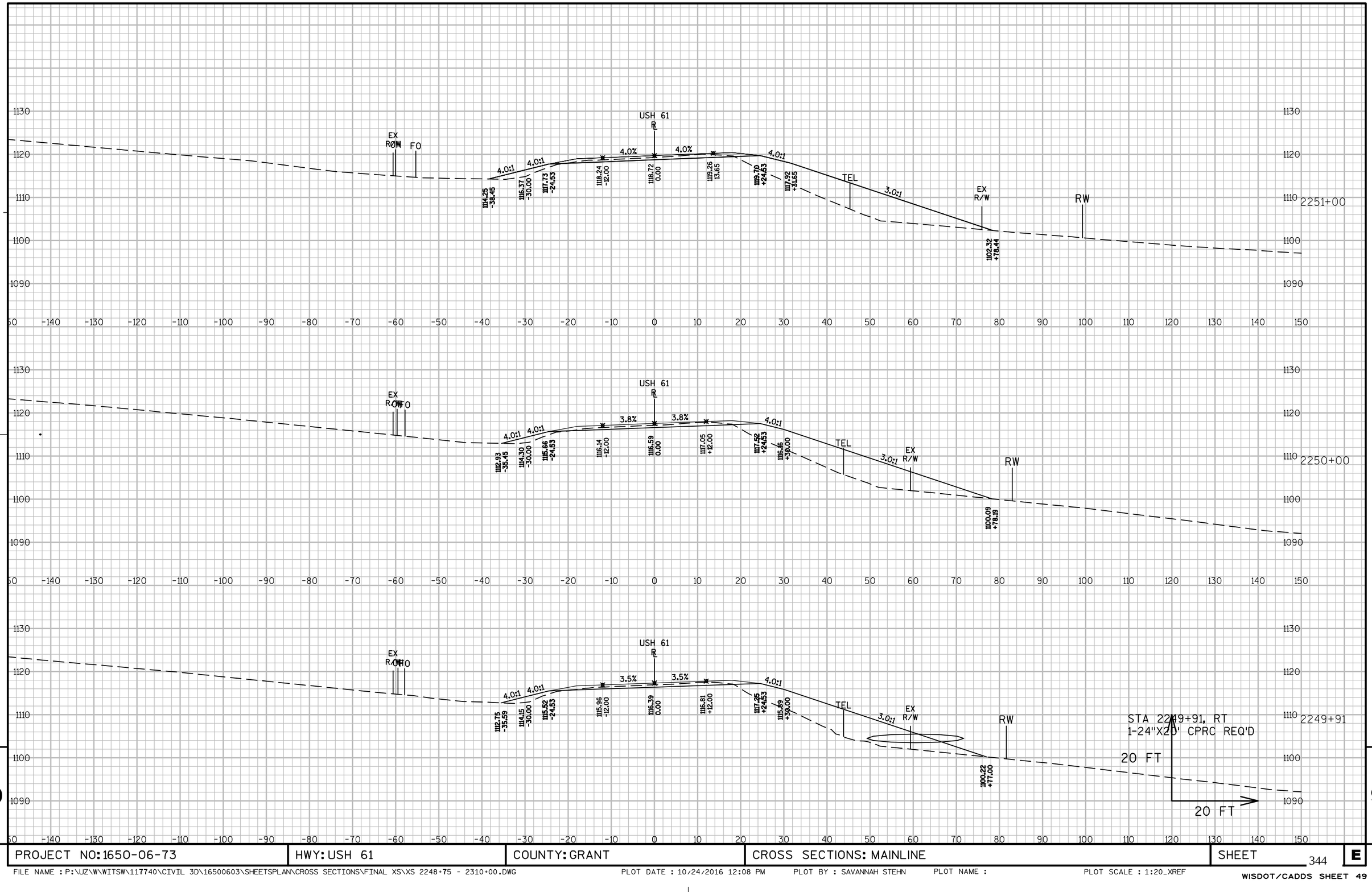
STA 2249+55, LT
CONSTRUCT AGG PE



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 343 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:08 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

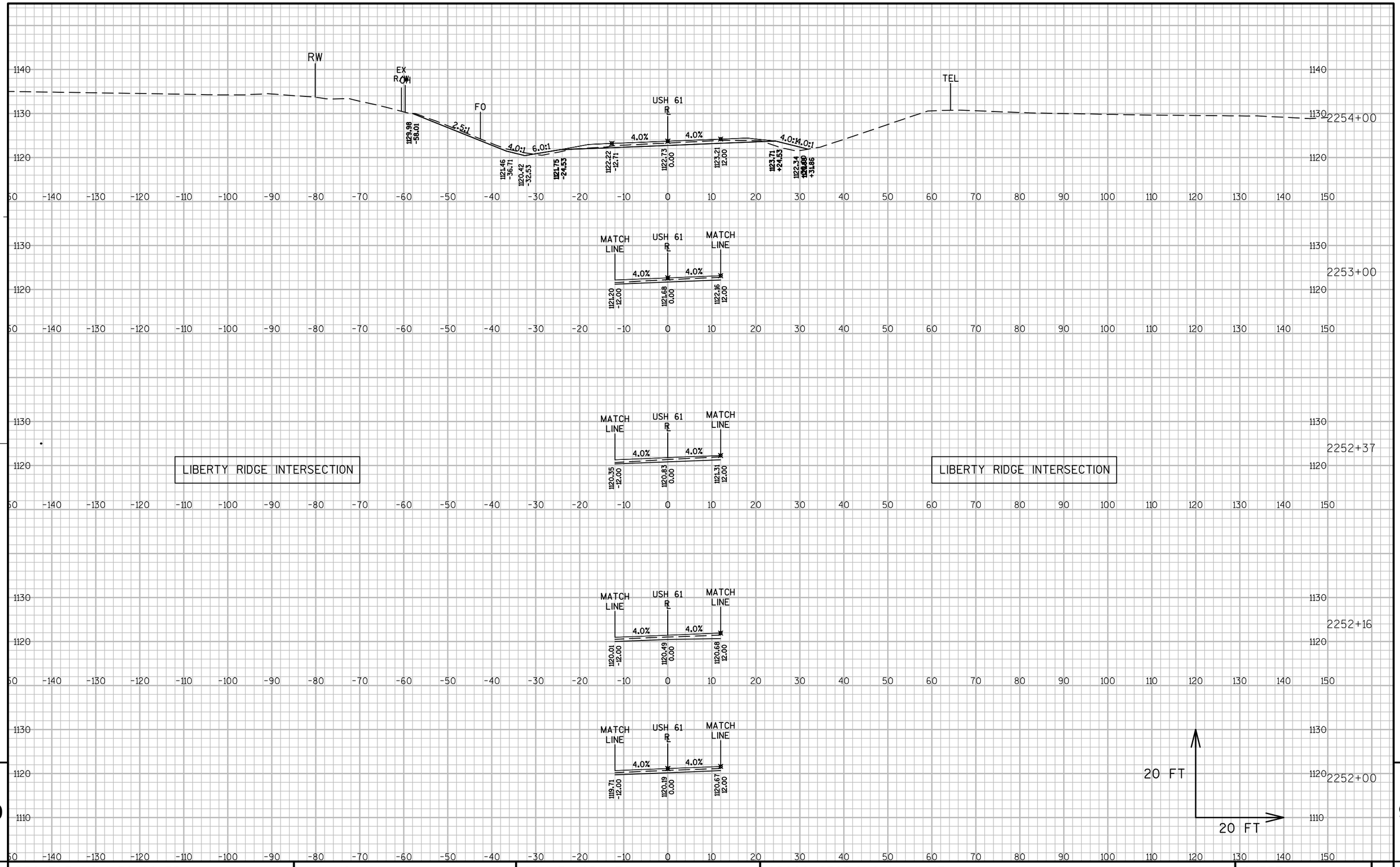
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 344	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:08 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

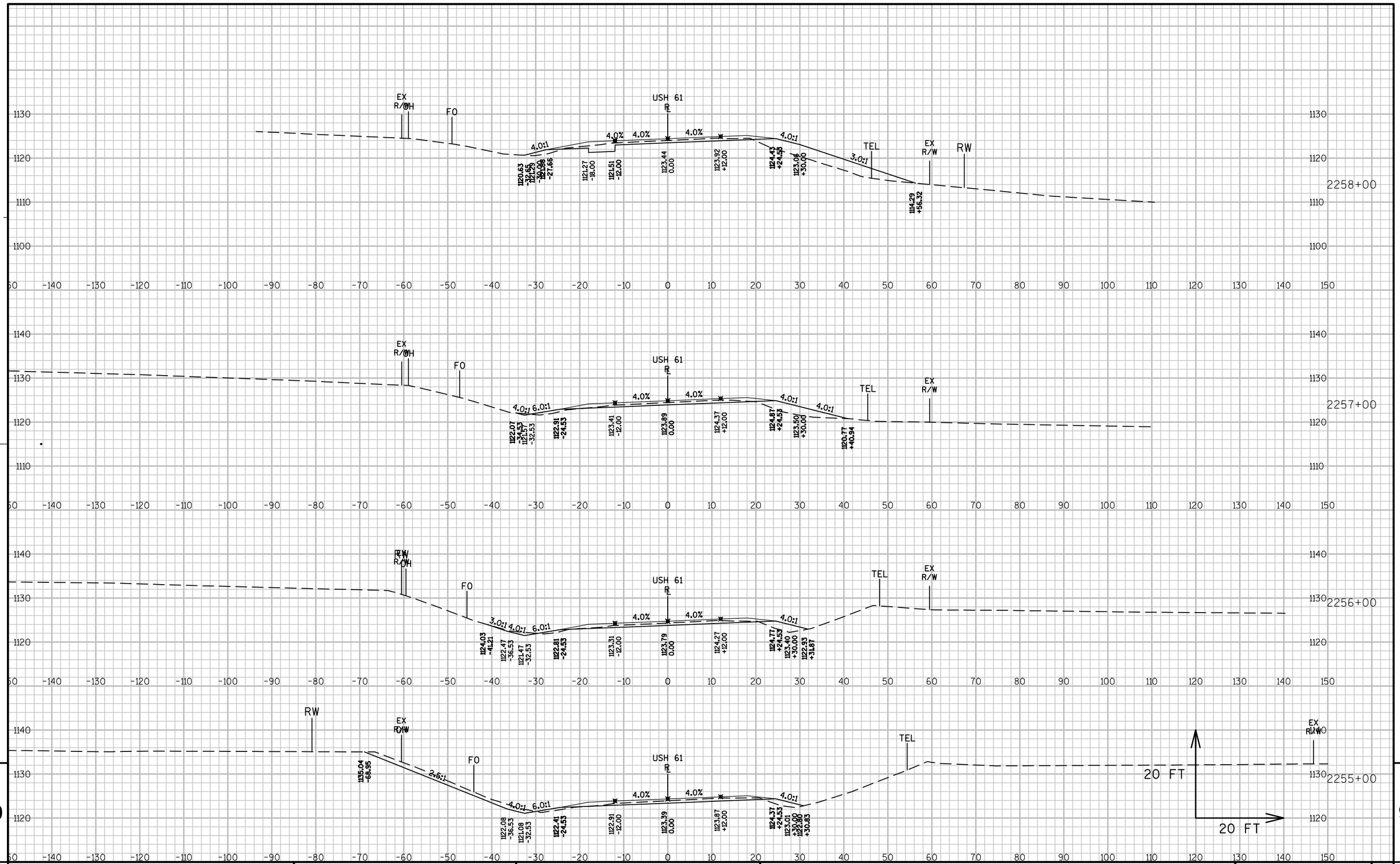
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 345 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:09 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

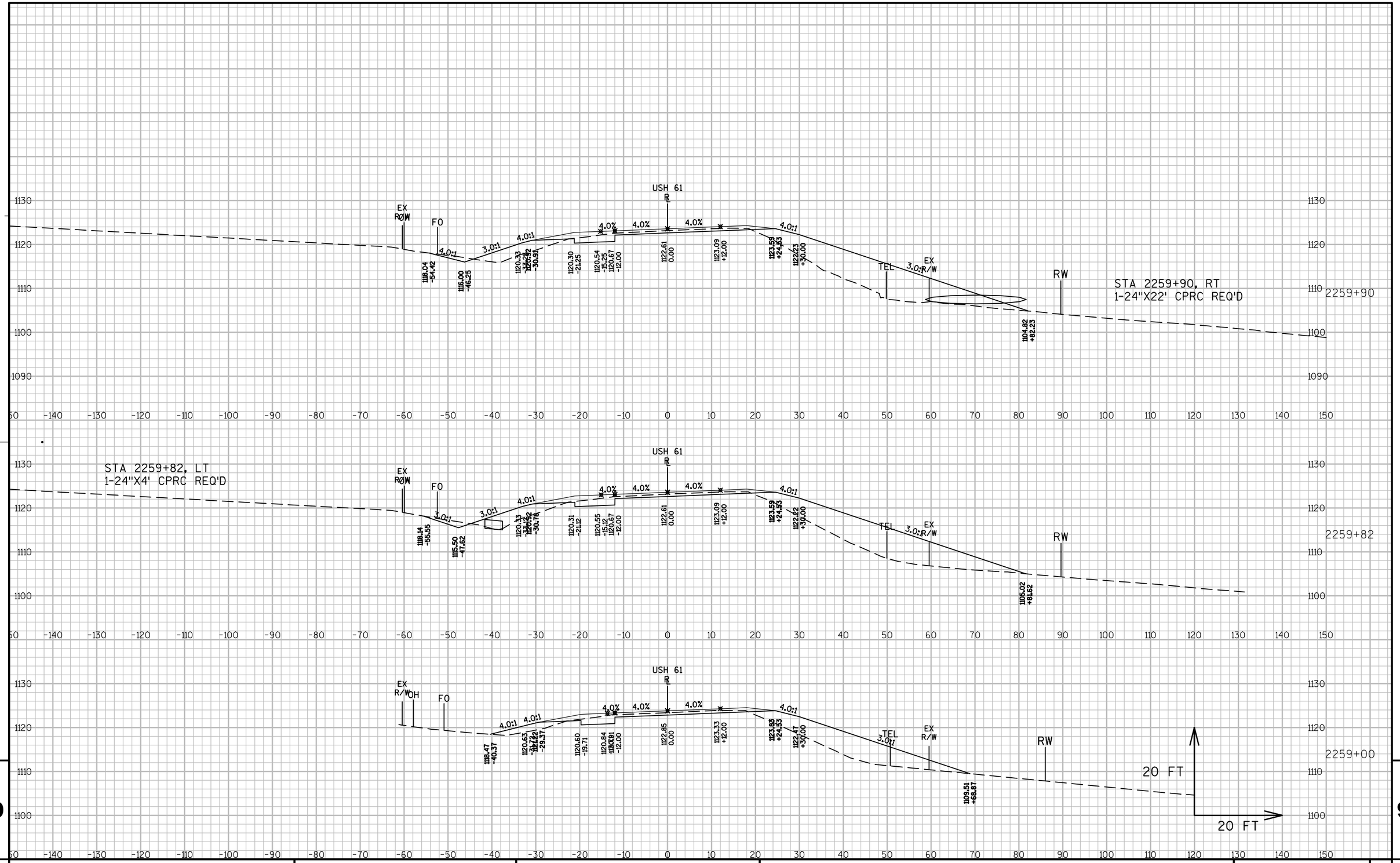


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 346	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:10 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

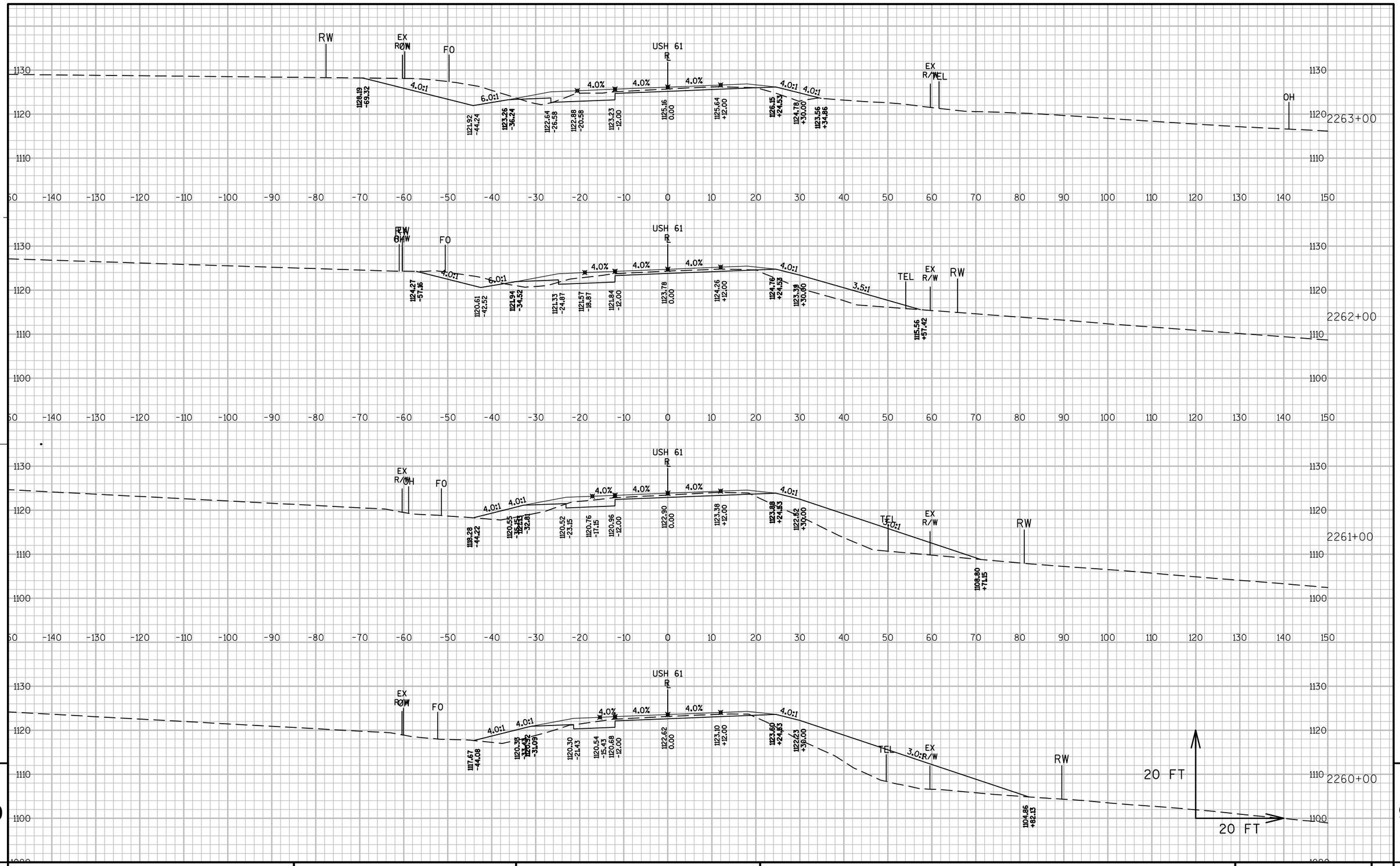
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 347	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:11 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

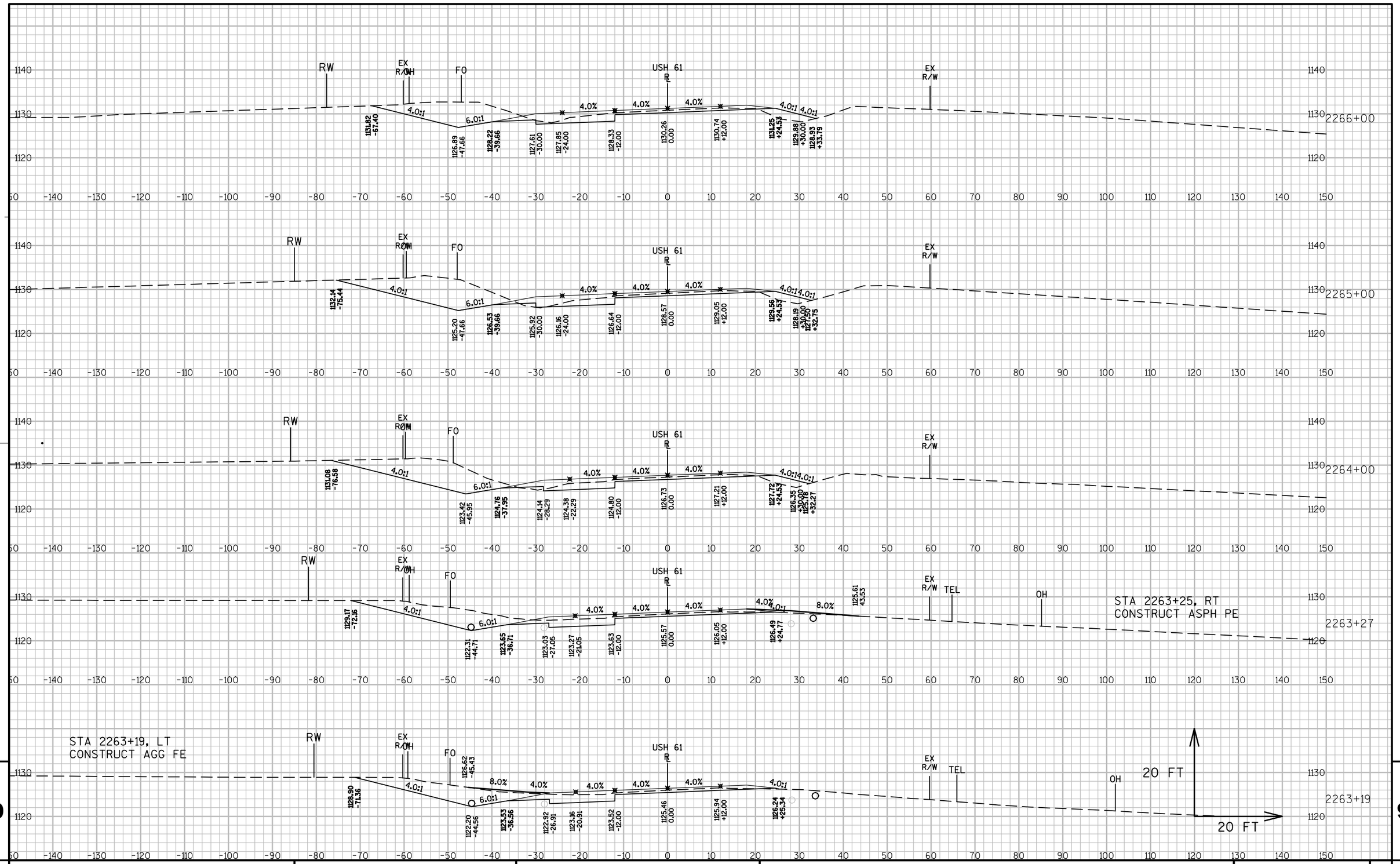


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 348	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:11 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

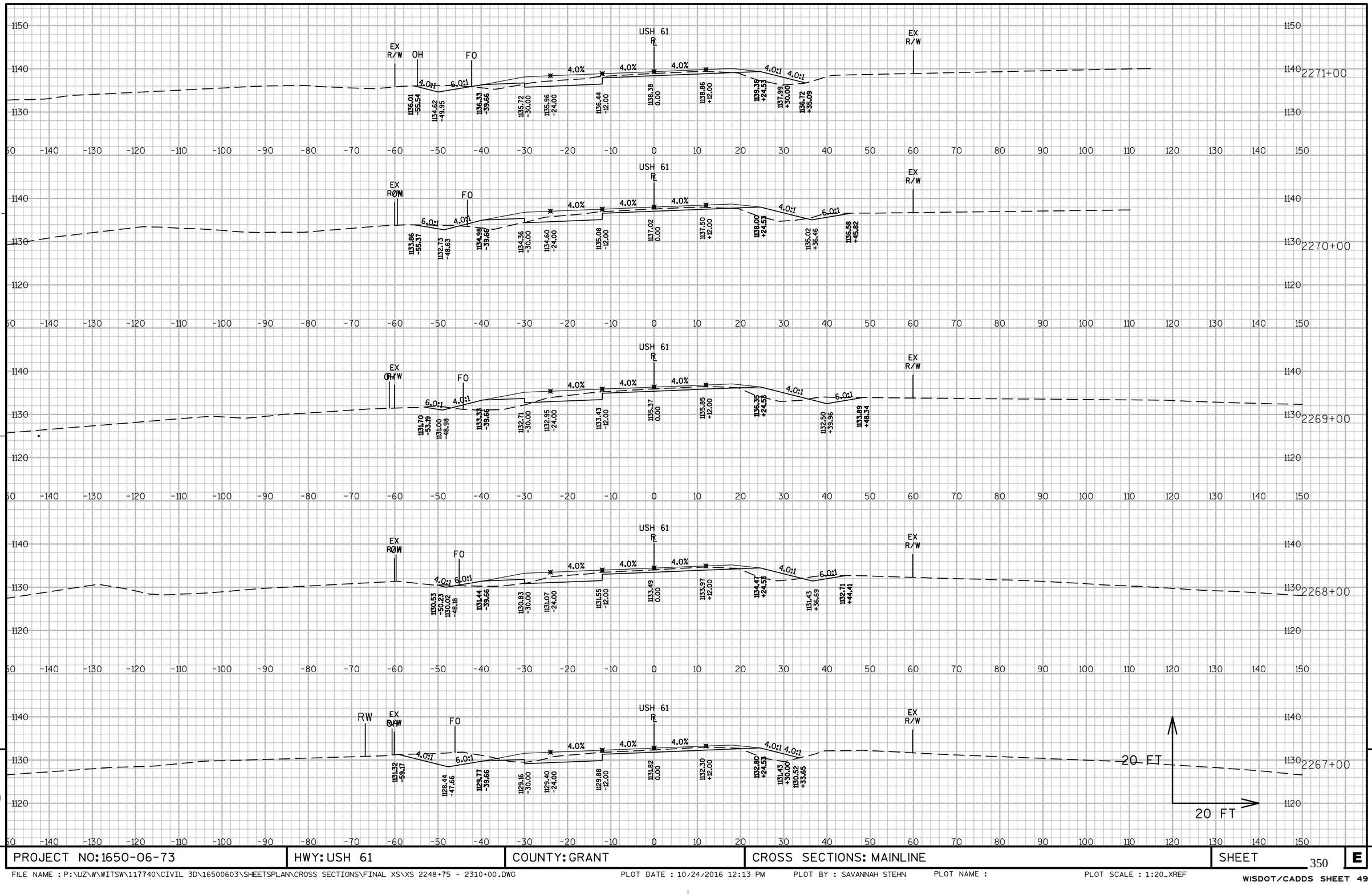


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 349	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:12 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

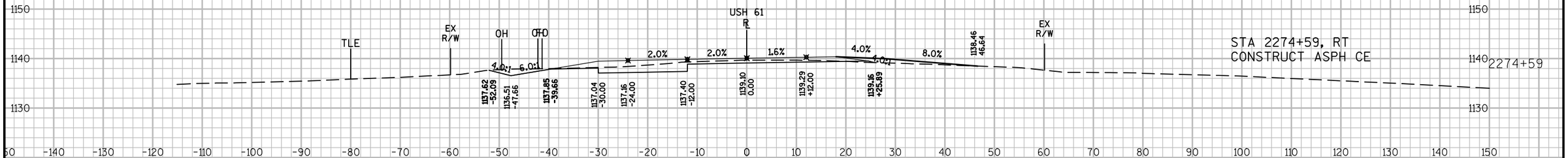


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 350	E

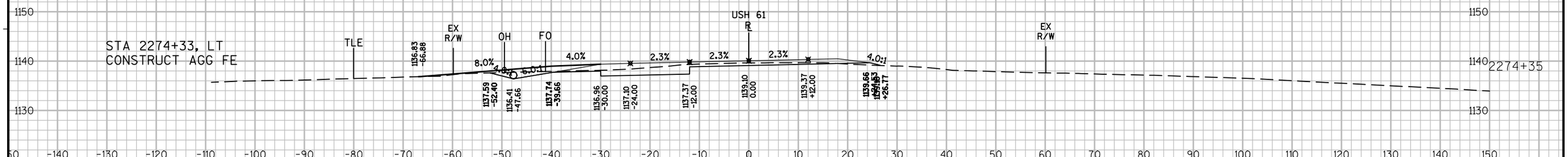
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:13 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

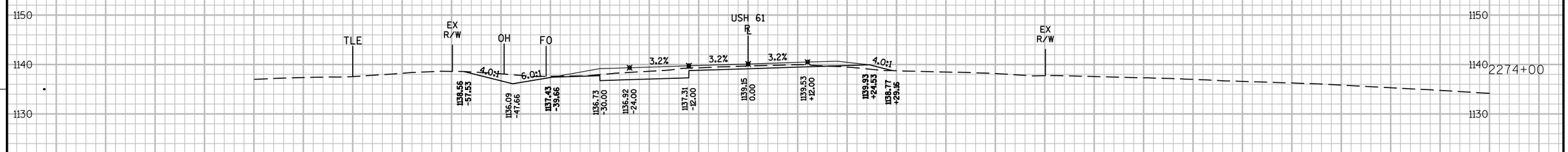
WISDOT/CADDS SHEET 49

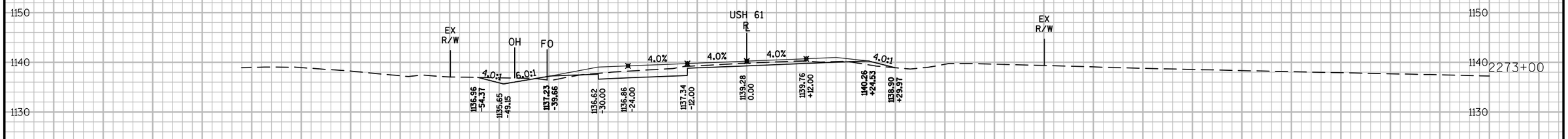
STA 2274+59, RT
CONSTRUCT ASPH CE

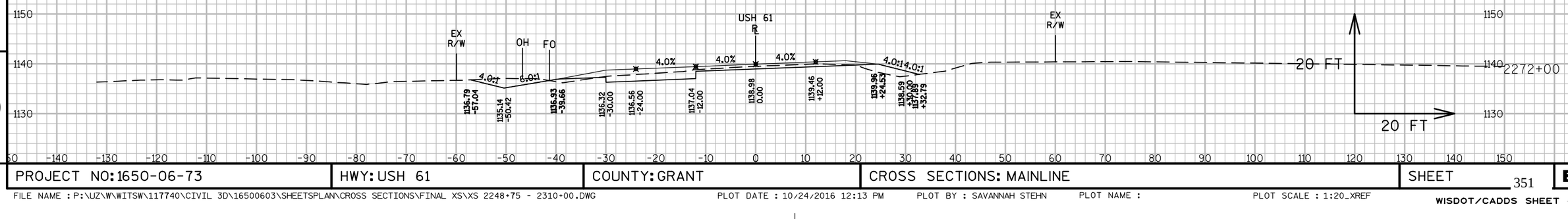


STA 2274+33, LT
CONSTRUCT AGG FE









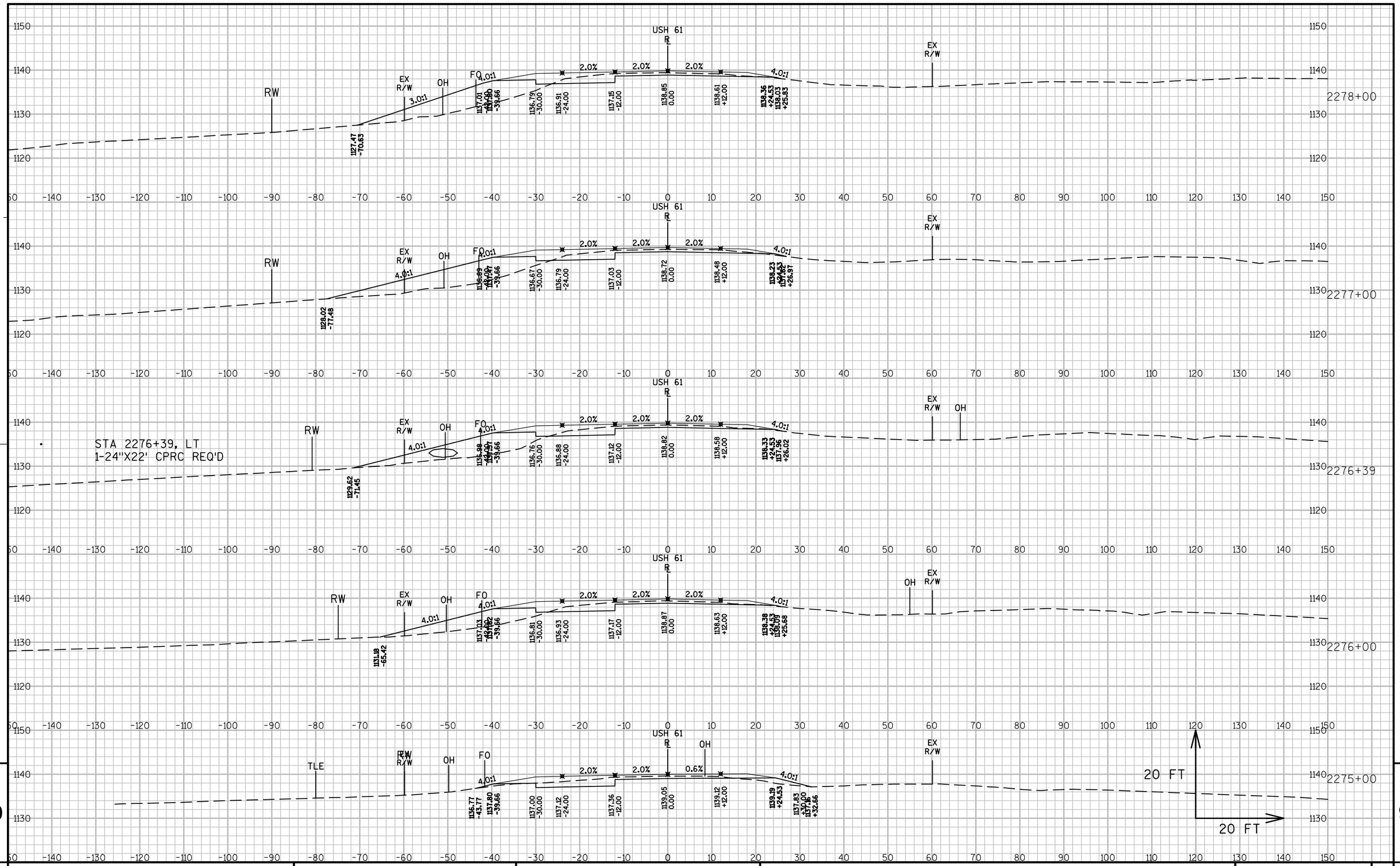
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 351	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:13 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

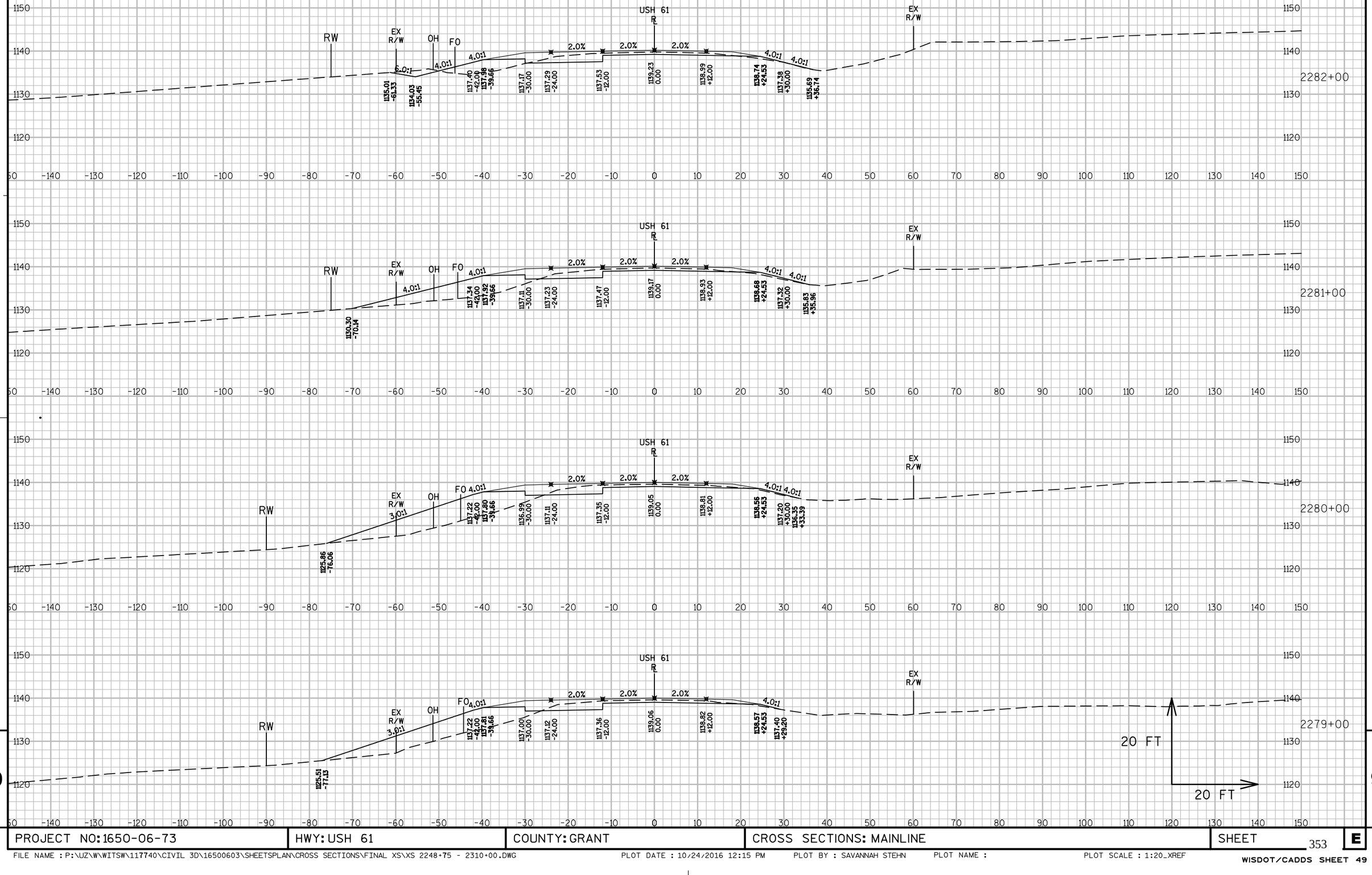
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 352	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:14 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

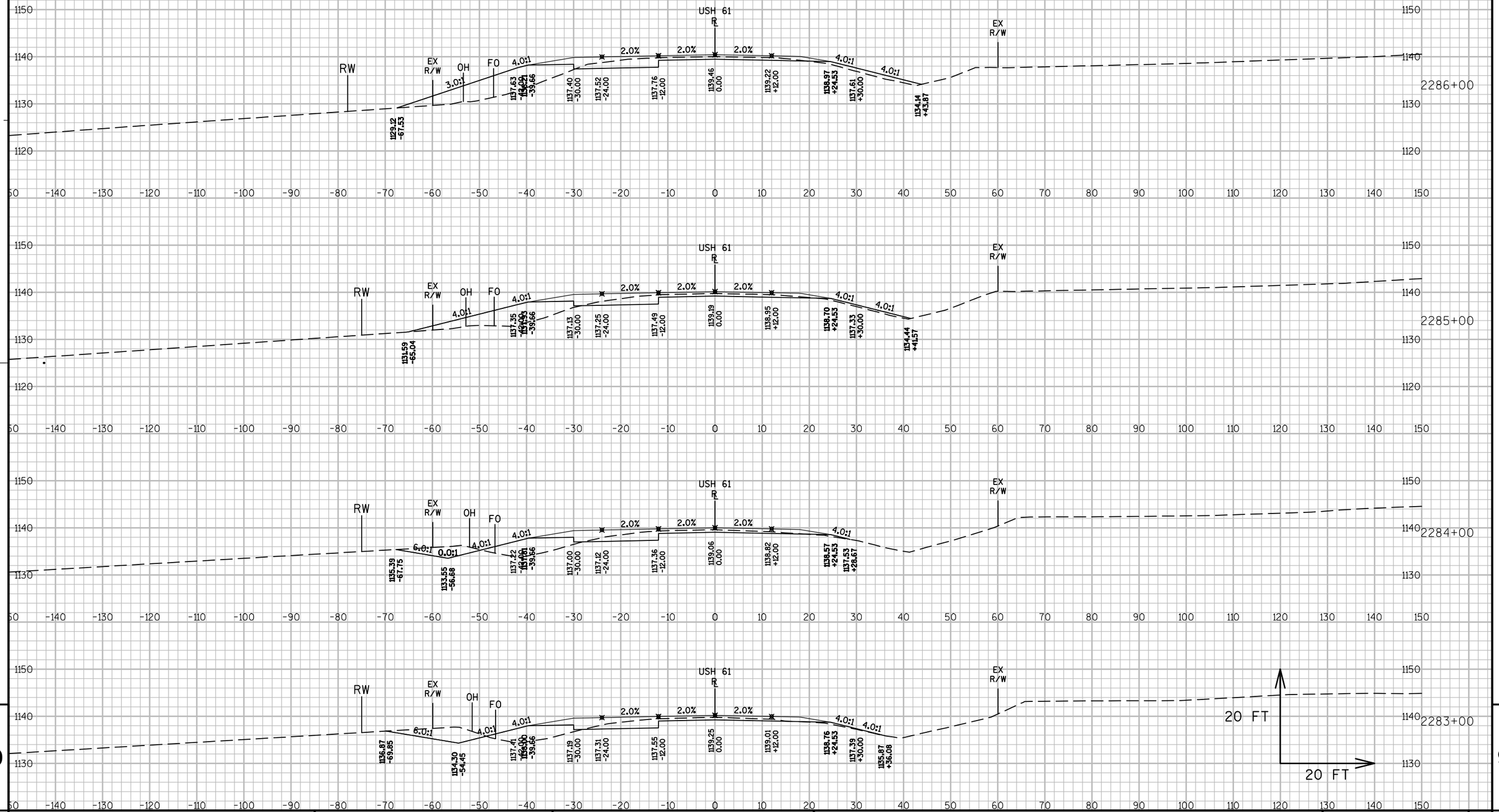


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 353	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:15 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



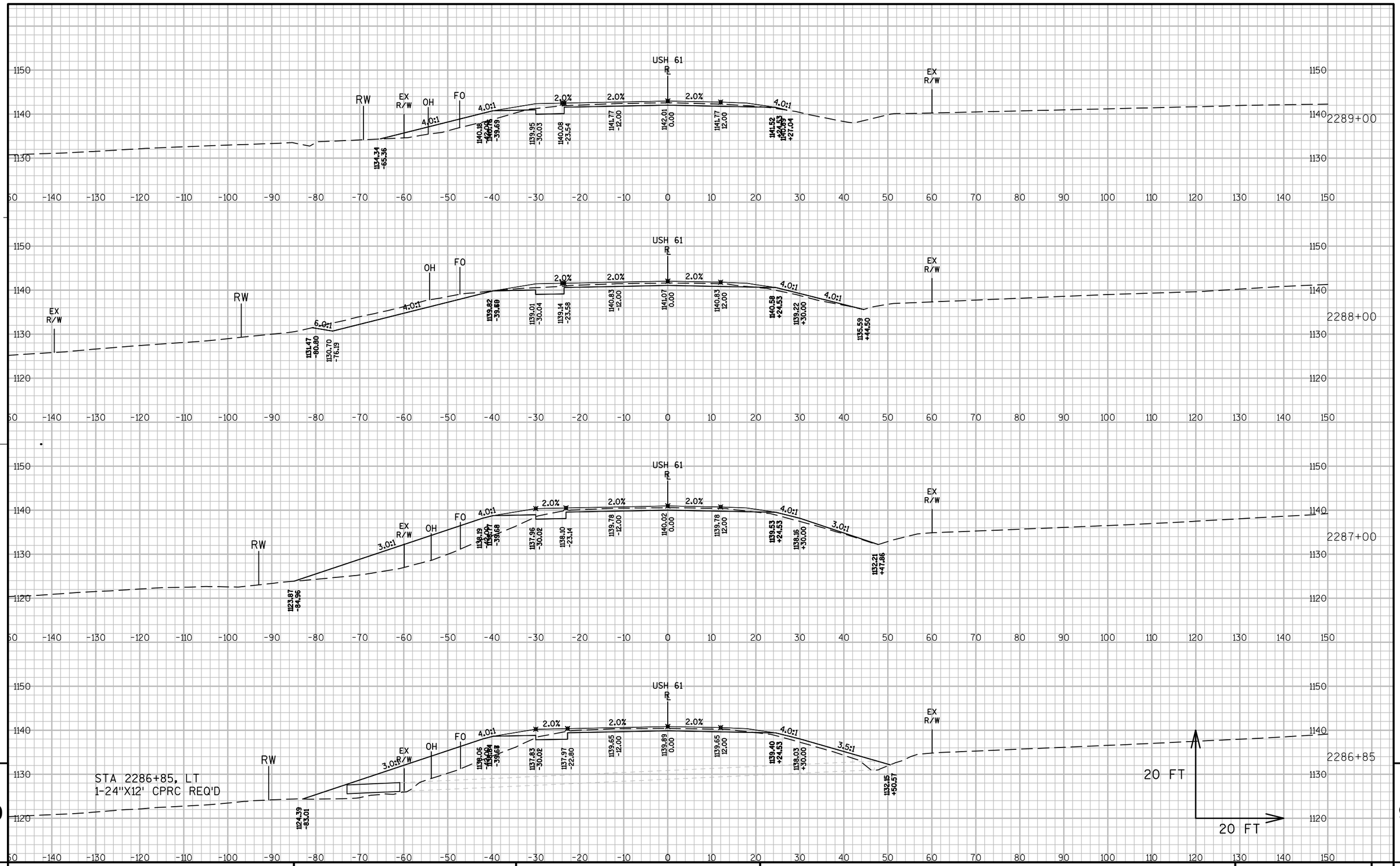
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 354	E

9

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:15 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

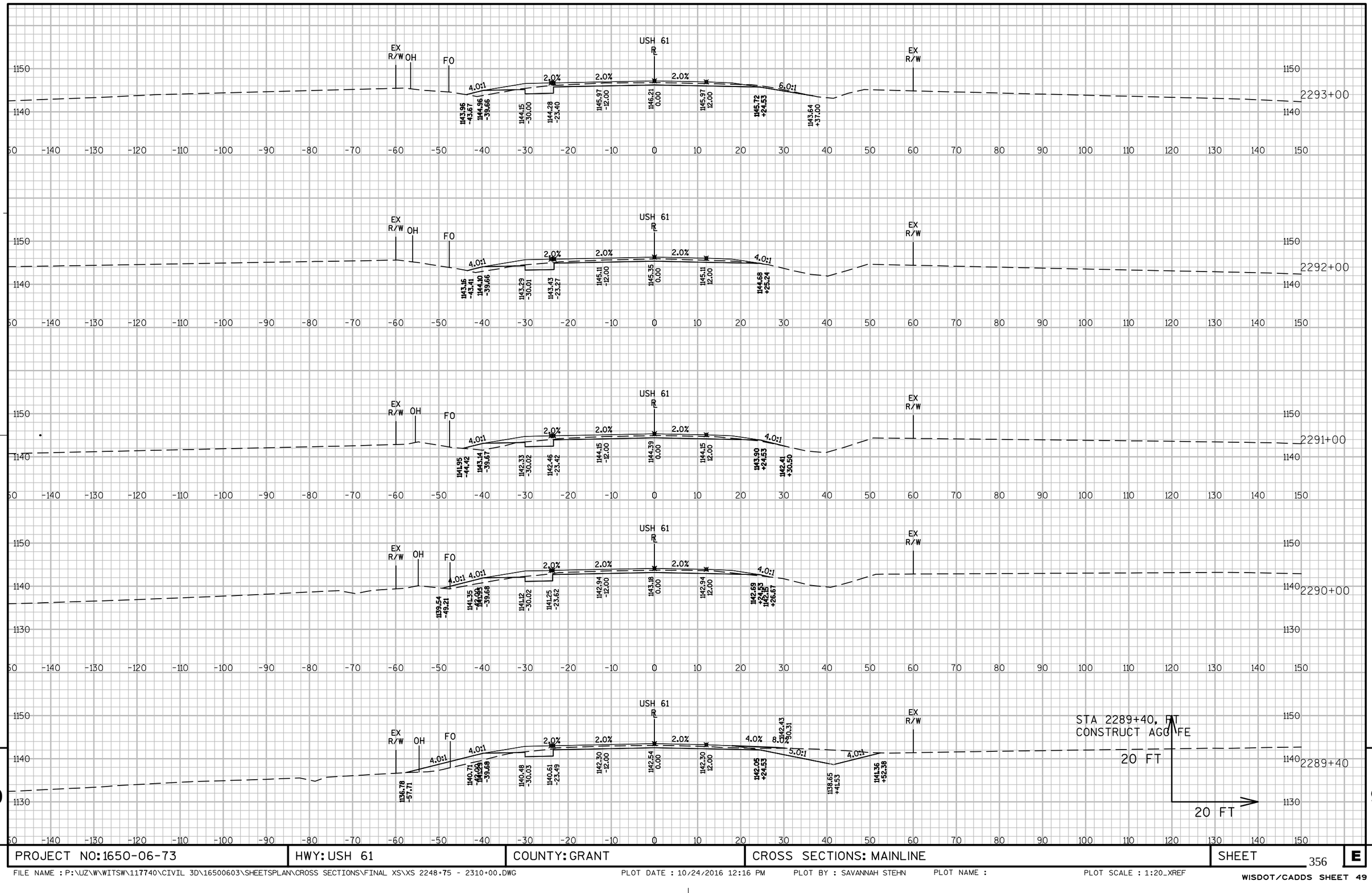


9

9

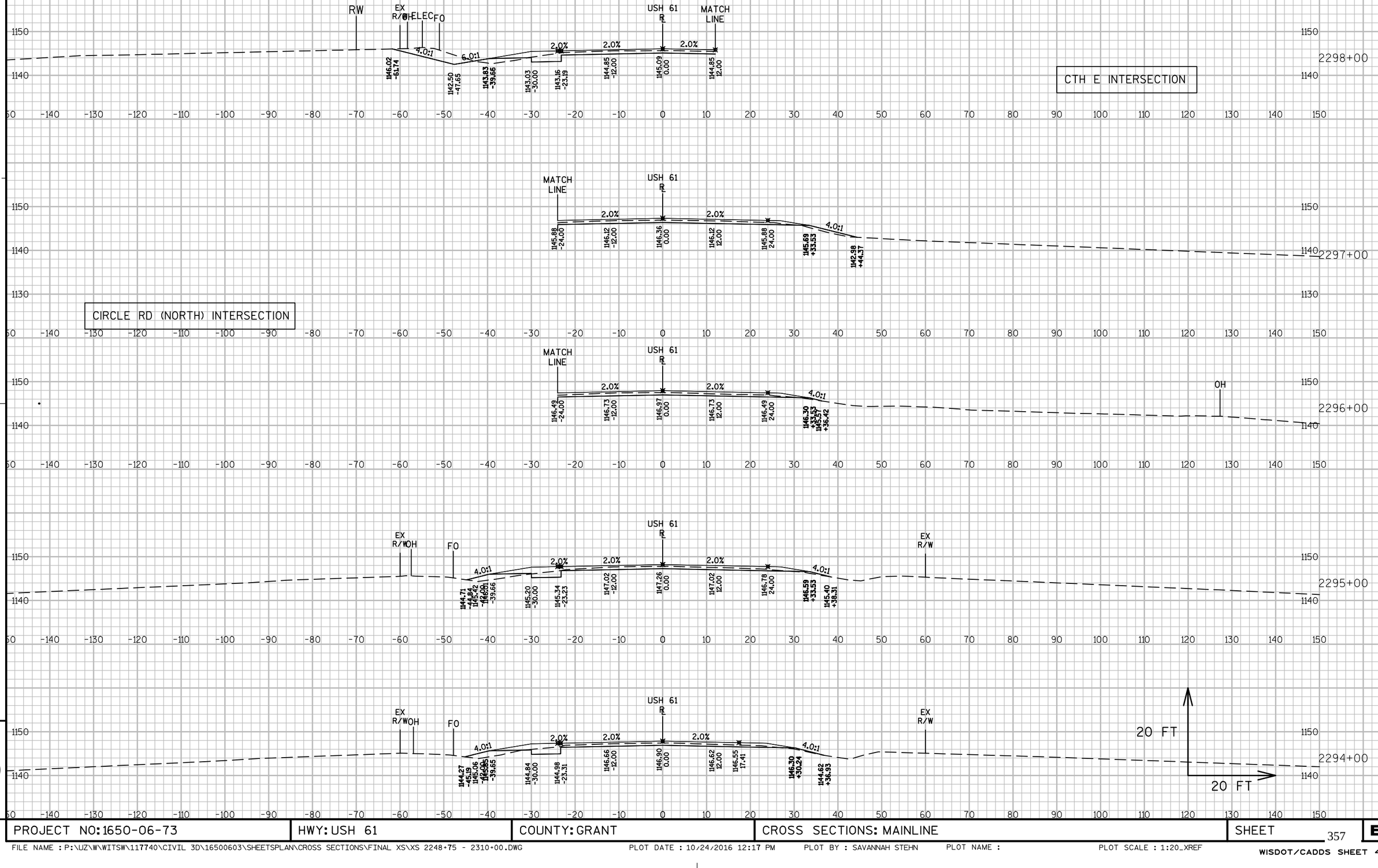
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 355	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:16 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9 9

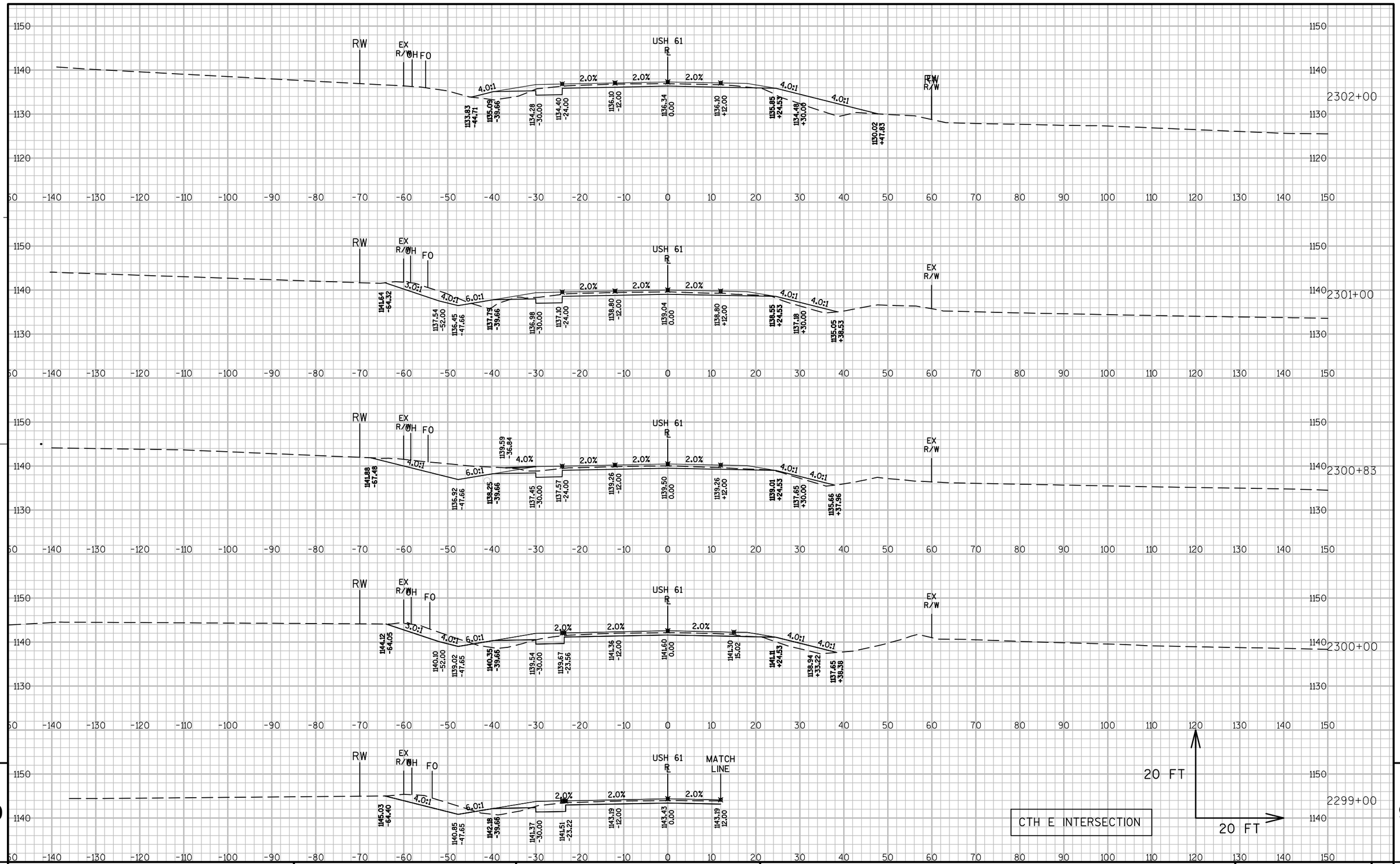
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 356	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 357	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:17 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



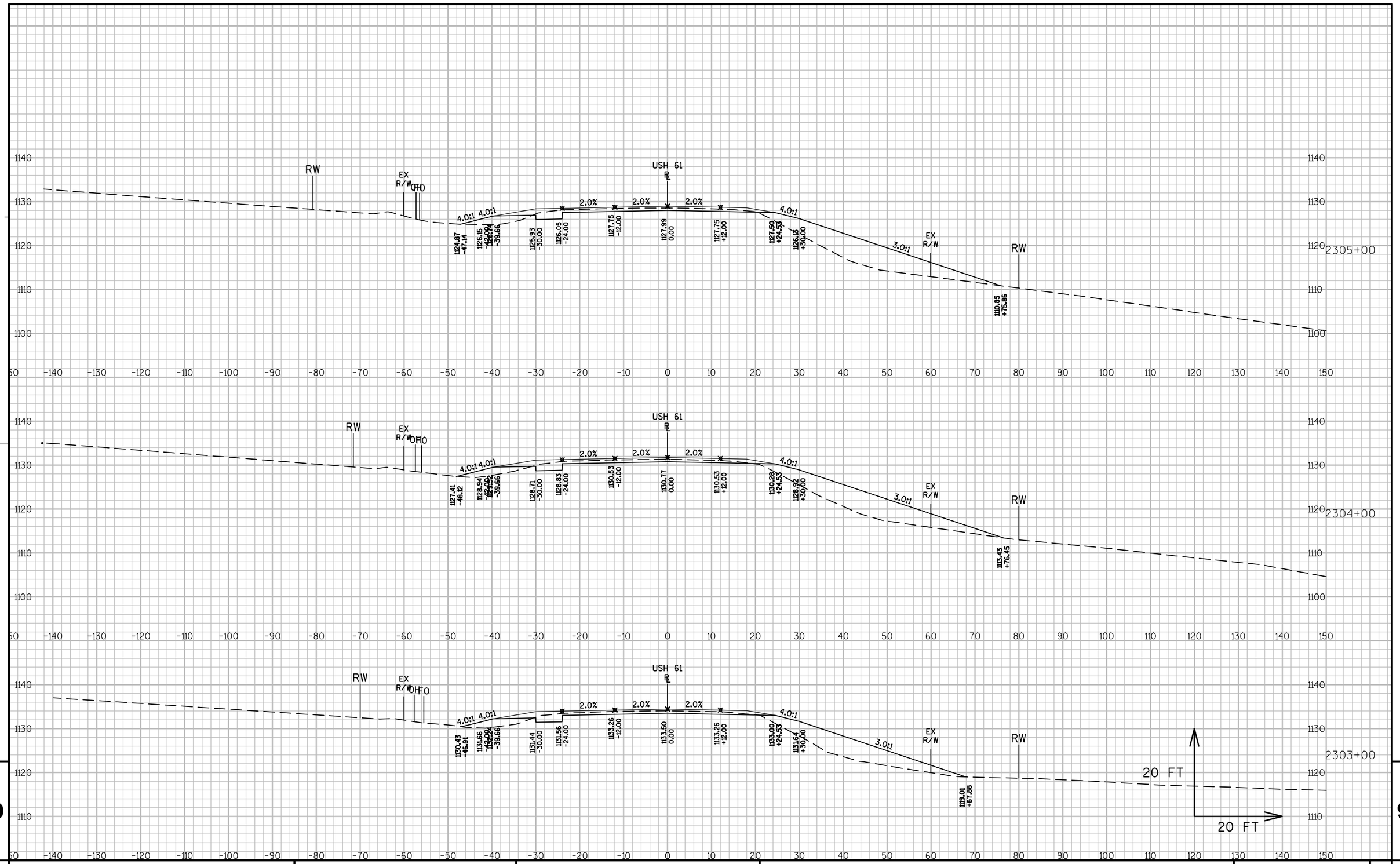
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 358	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:17 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

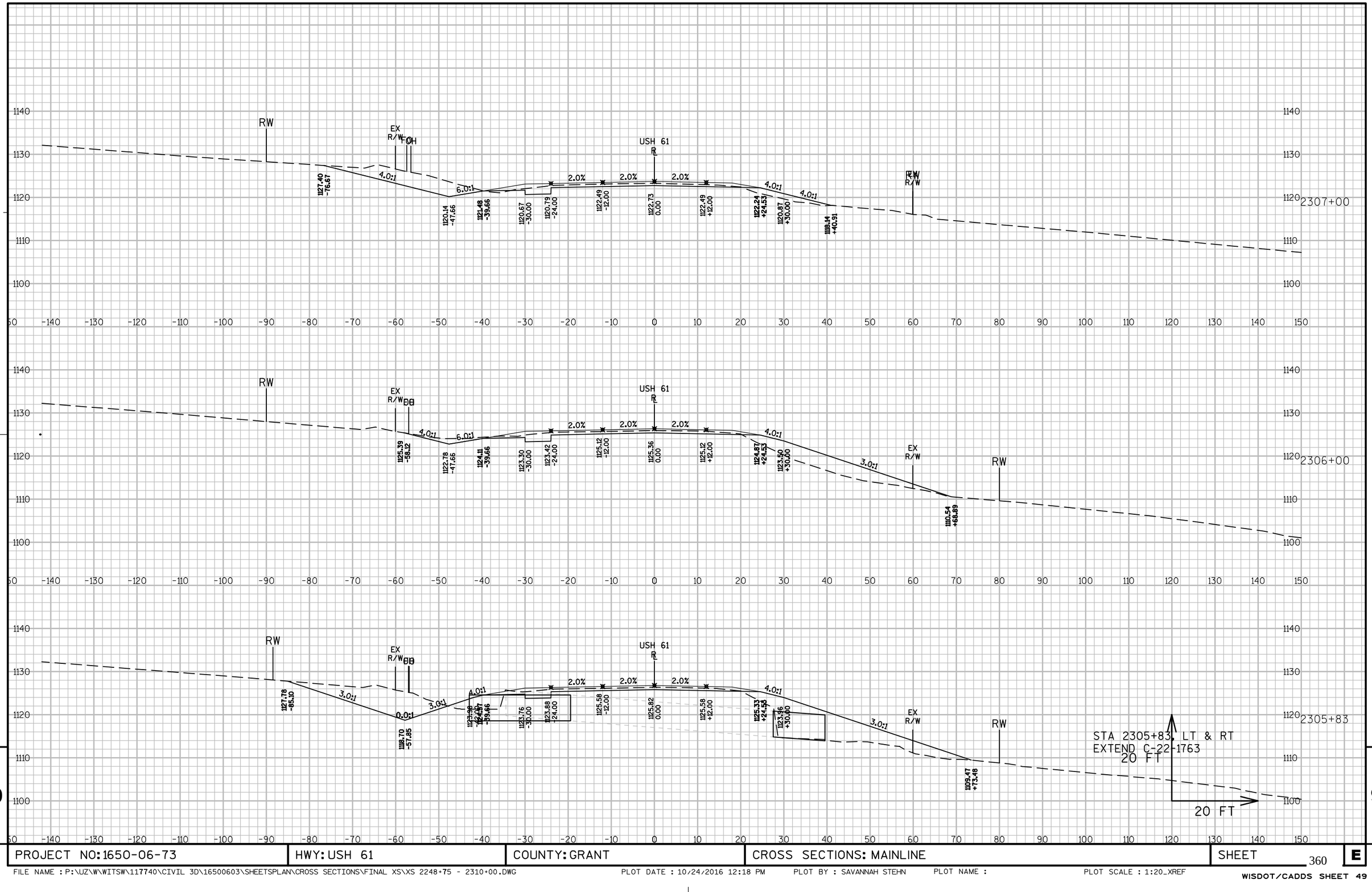


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 359	E

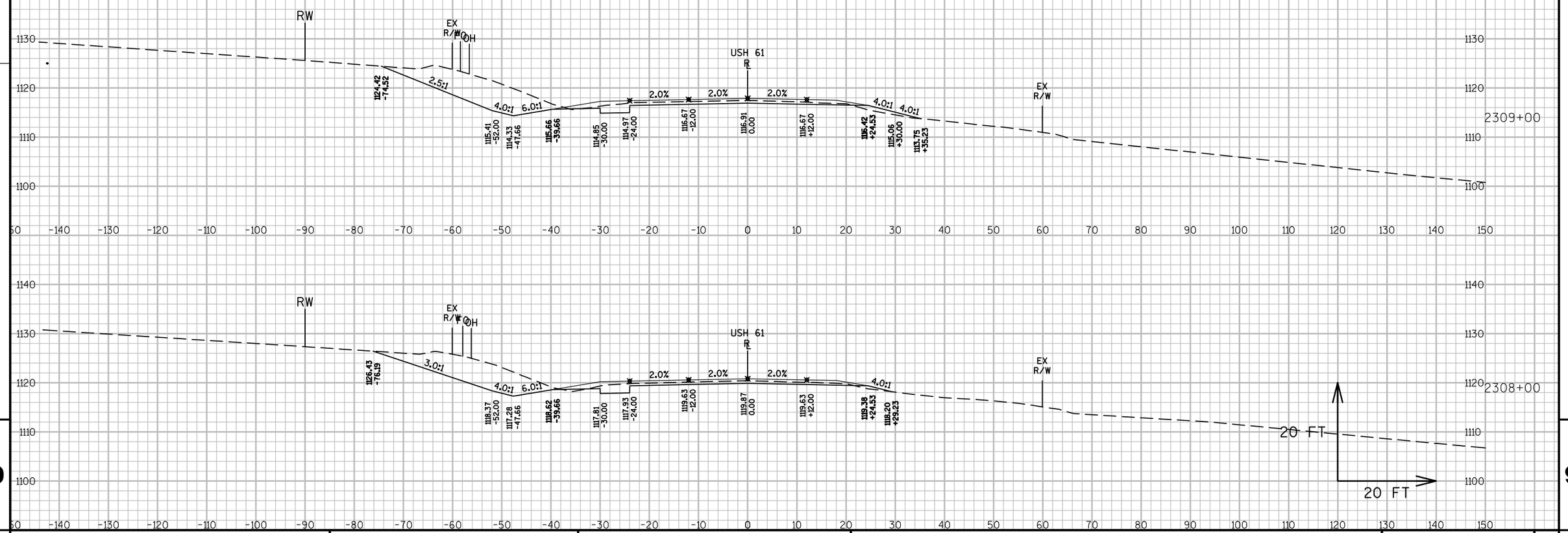
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:18 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 360	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:18 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

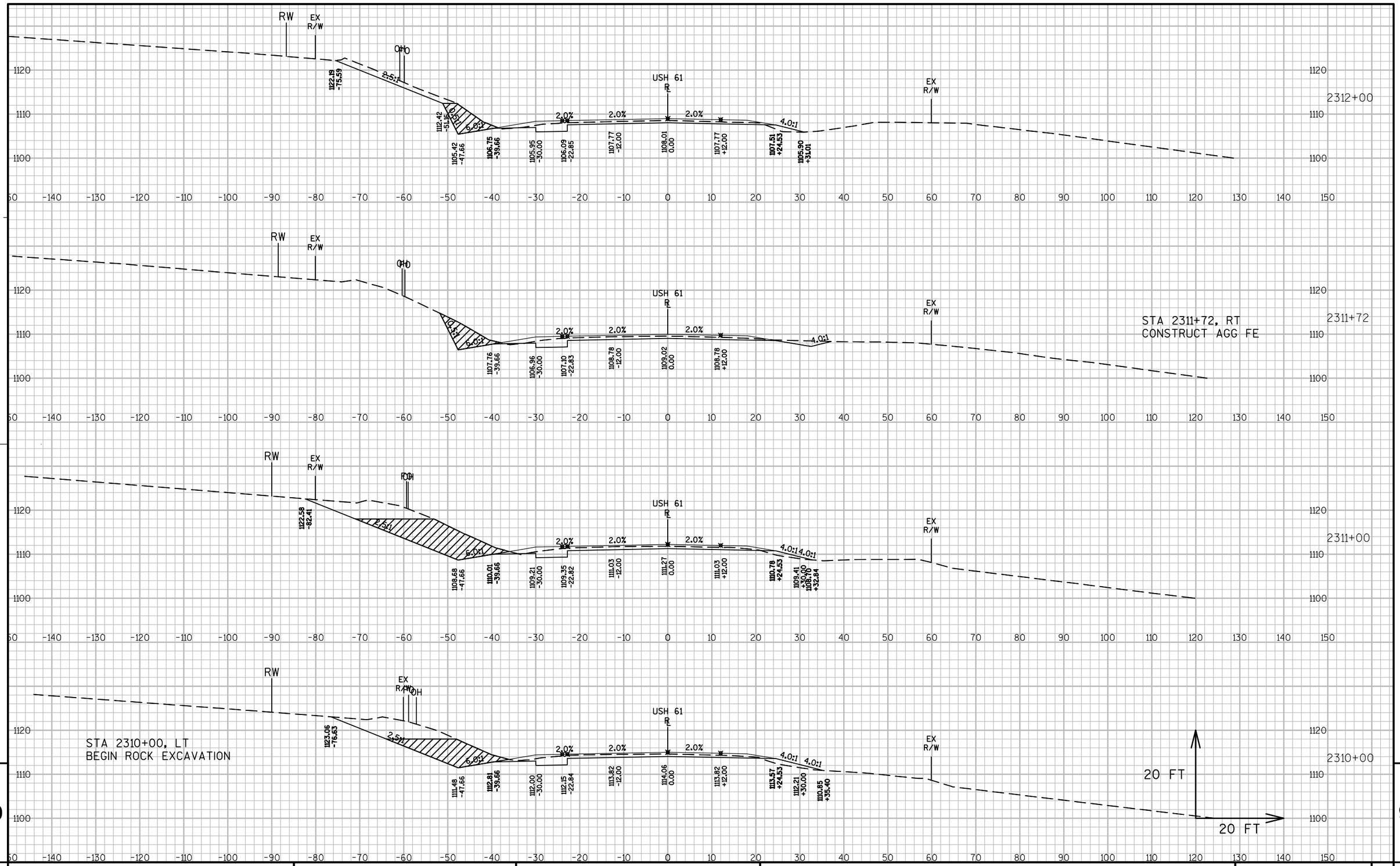
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 361	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2248+75 - 2310+00.DWG PLOT DATE : 10/24/2016 12:19 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



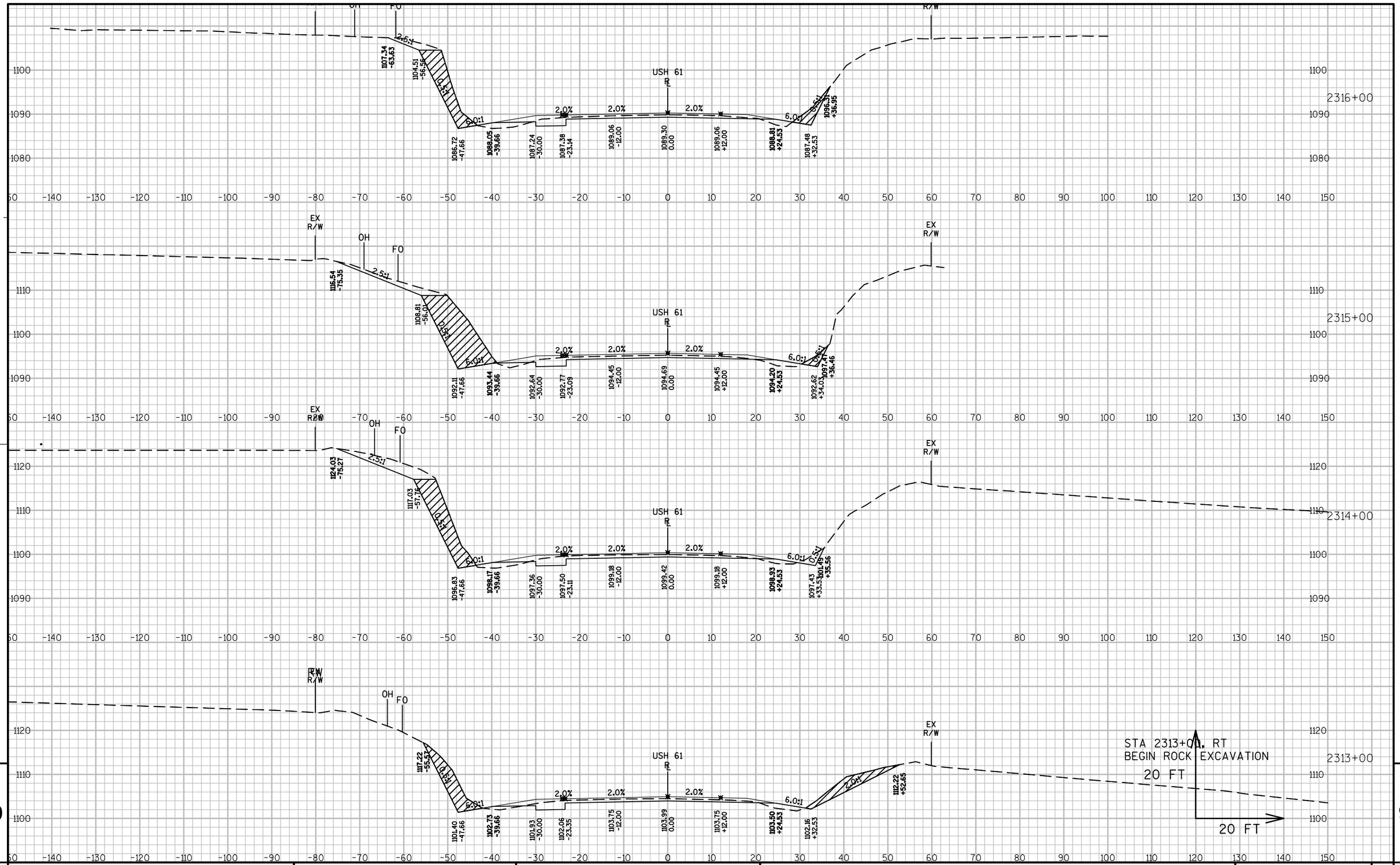
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 362	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:14 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

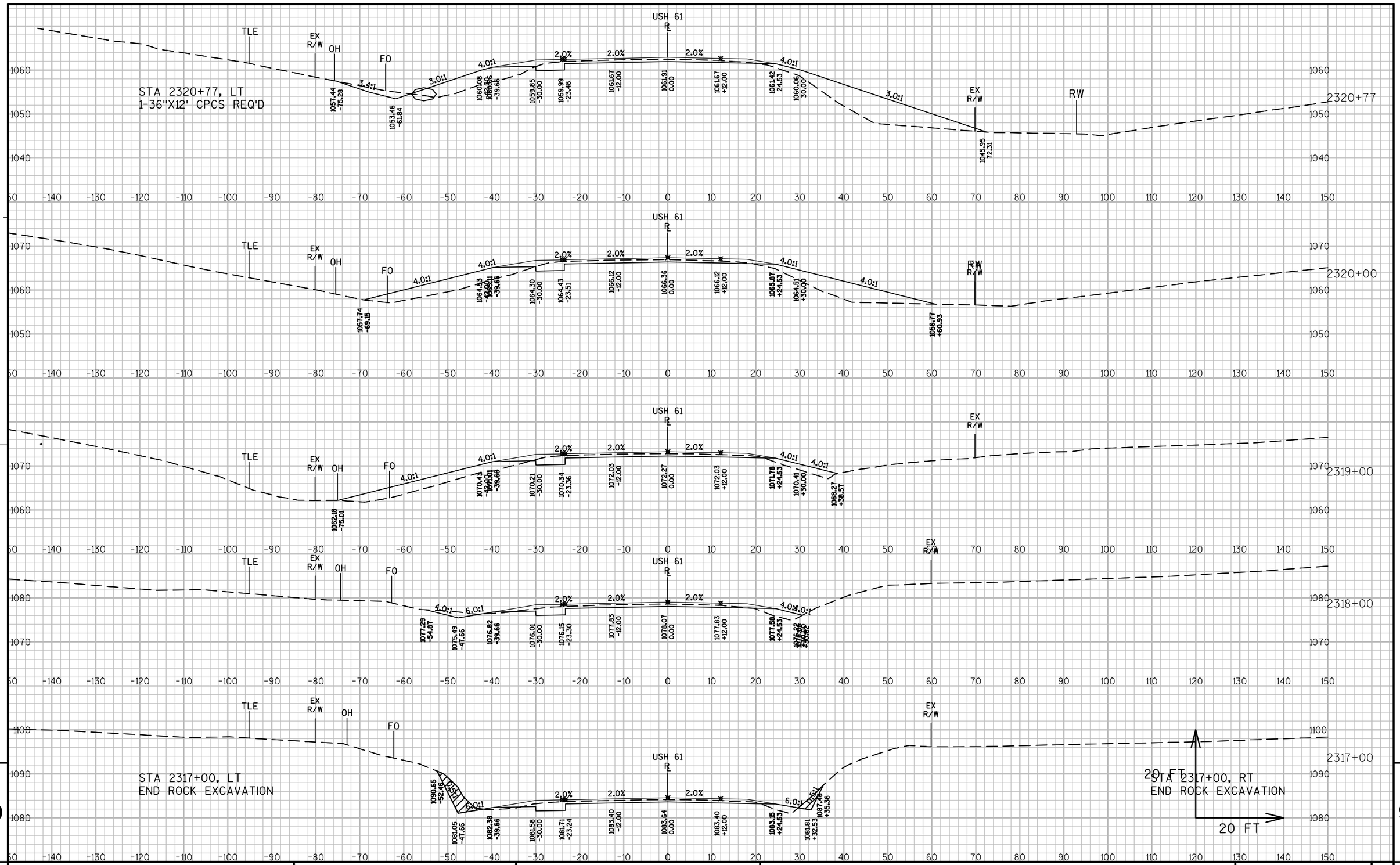
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 363	E

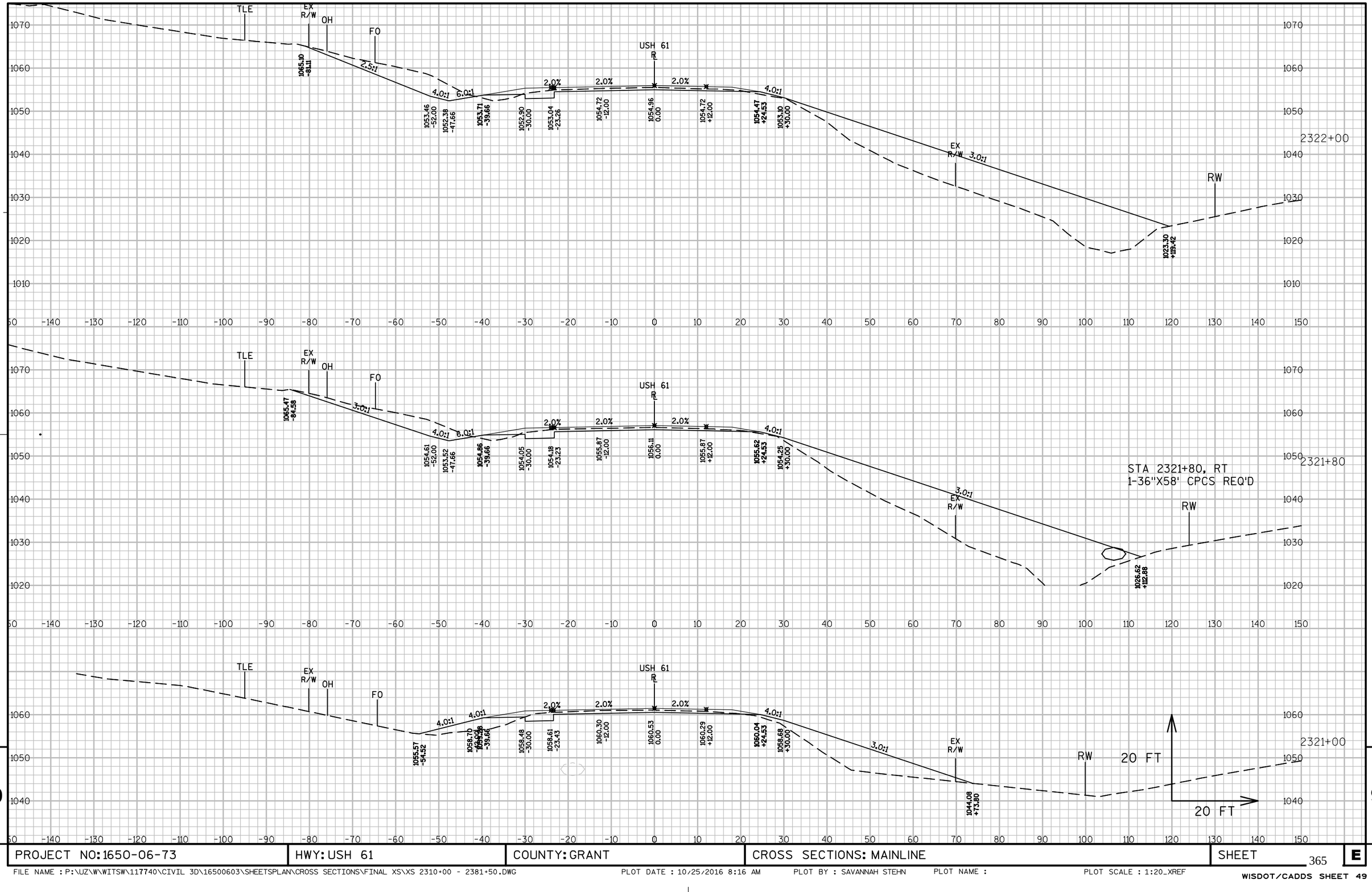
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:15 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 364	E

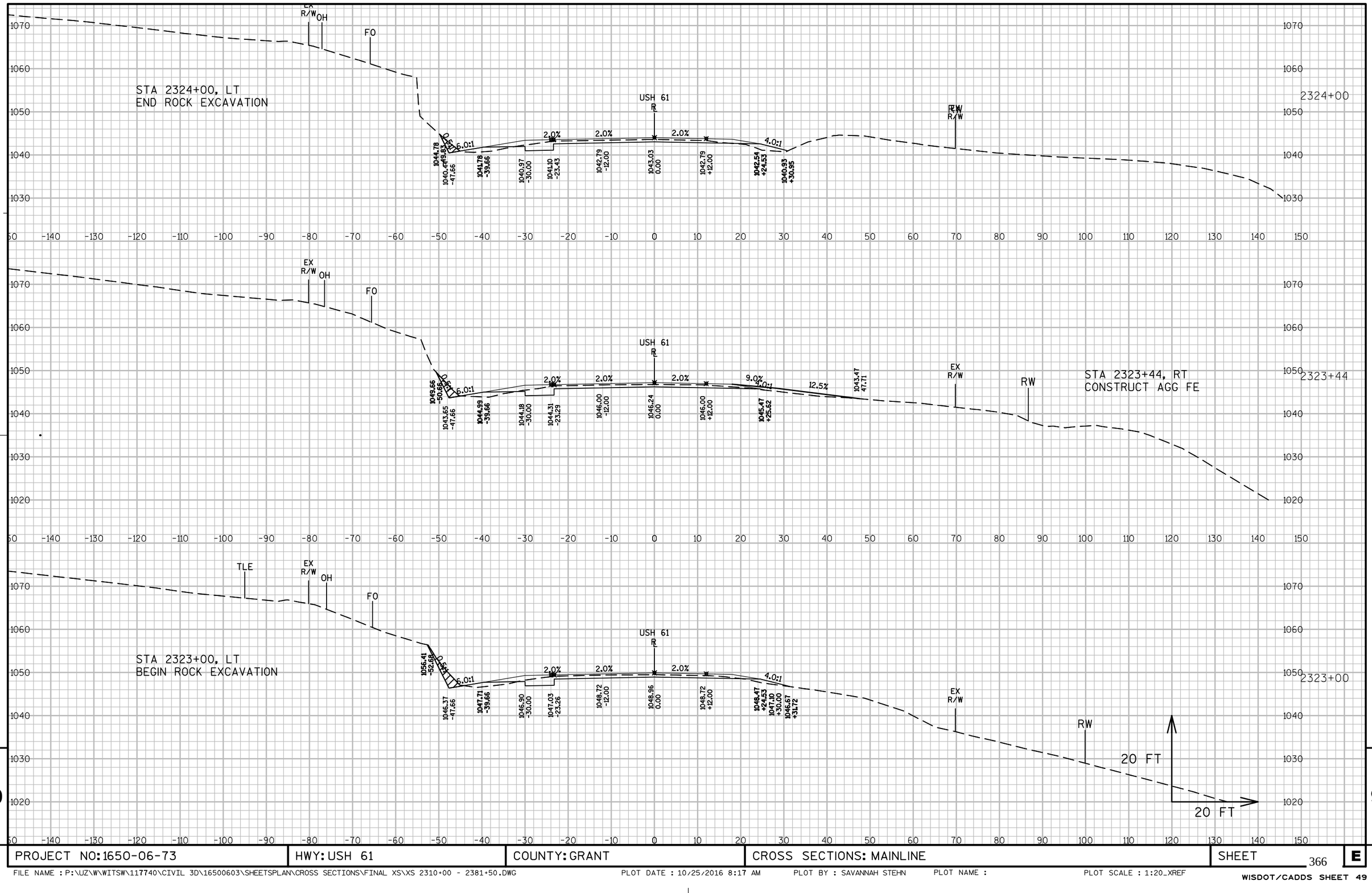
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:15 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 365	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:16 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

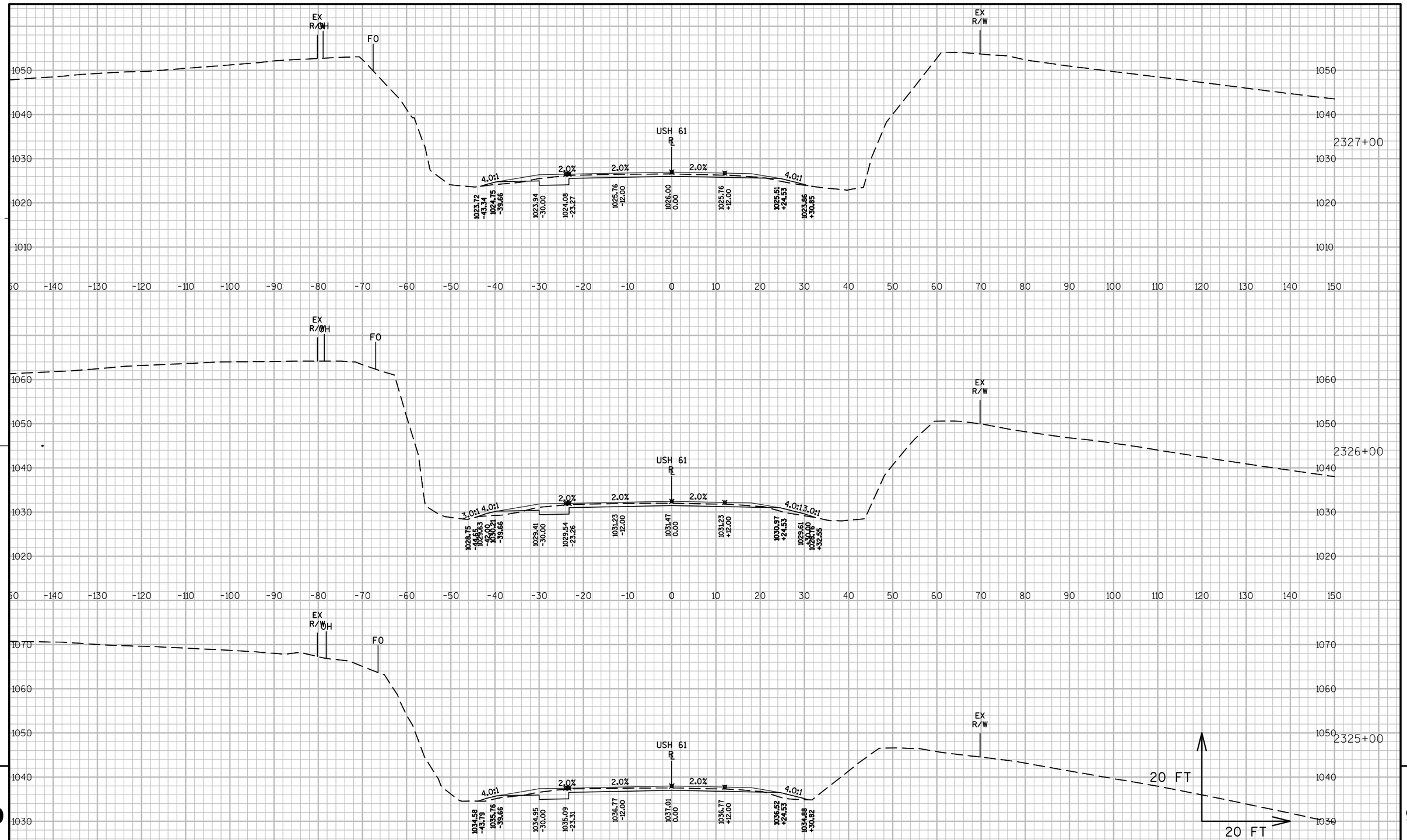
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 366	E



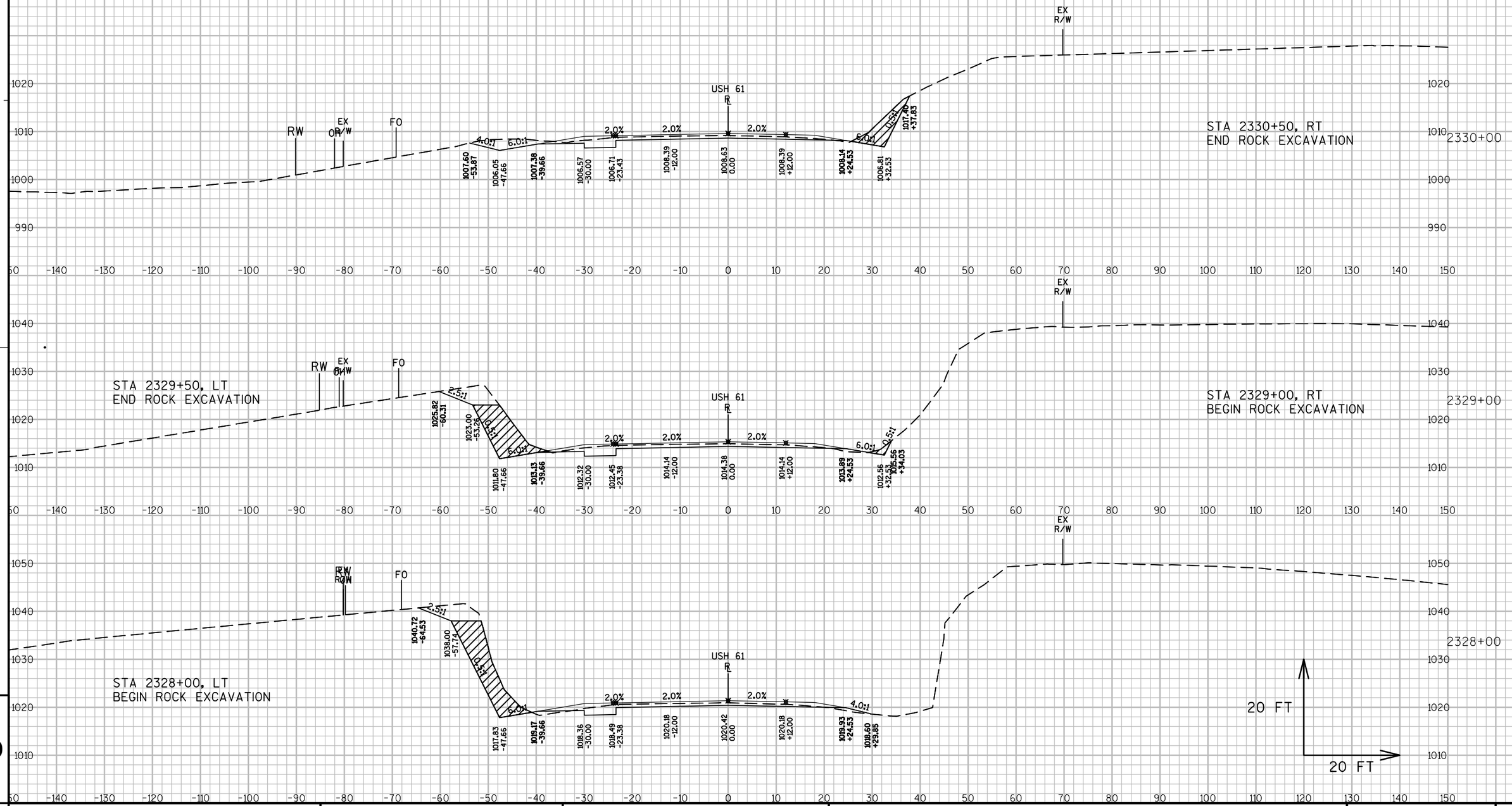
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 367	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:18 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

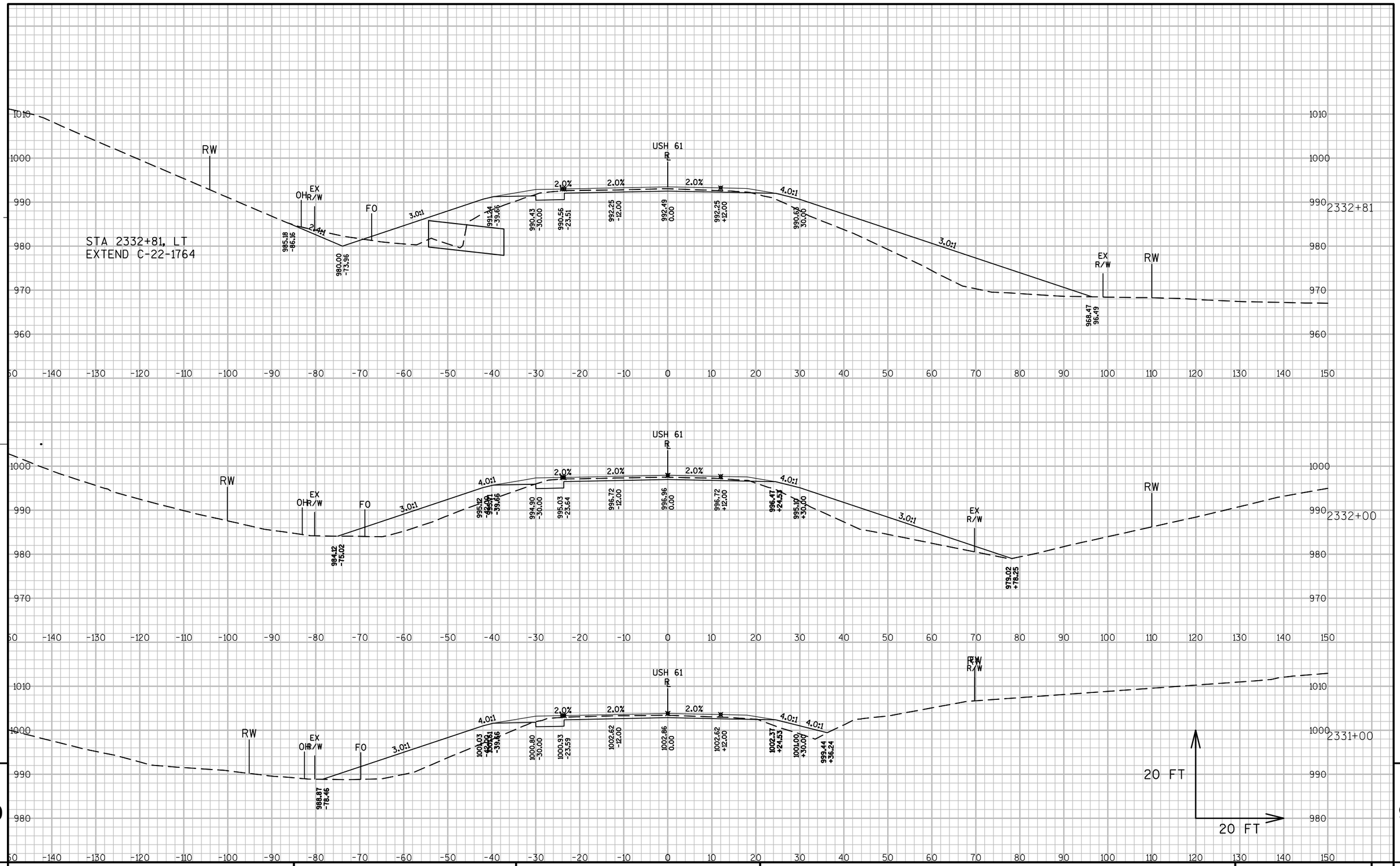


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 368	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:19 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

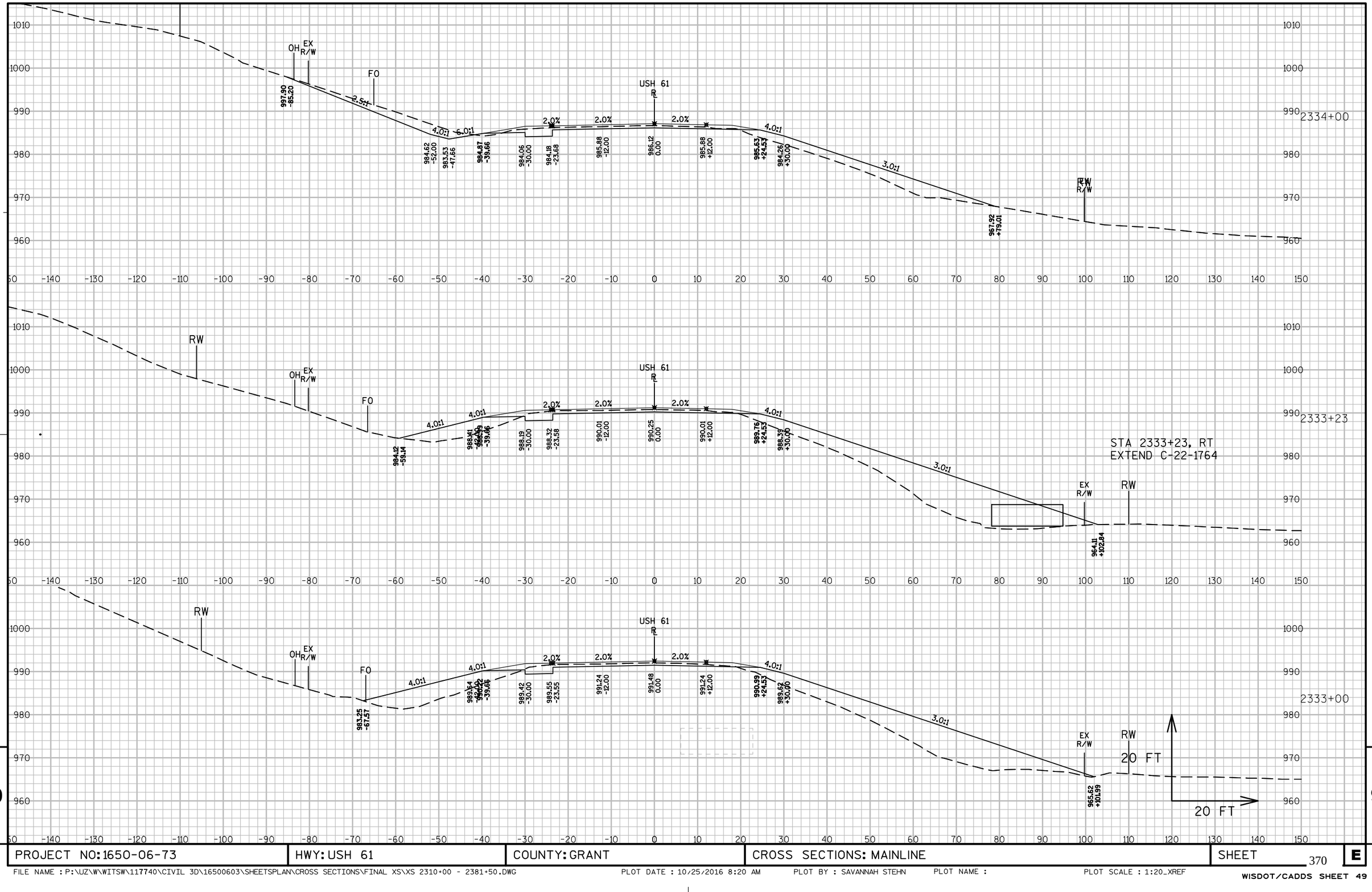


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 369	E

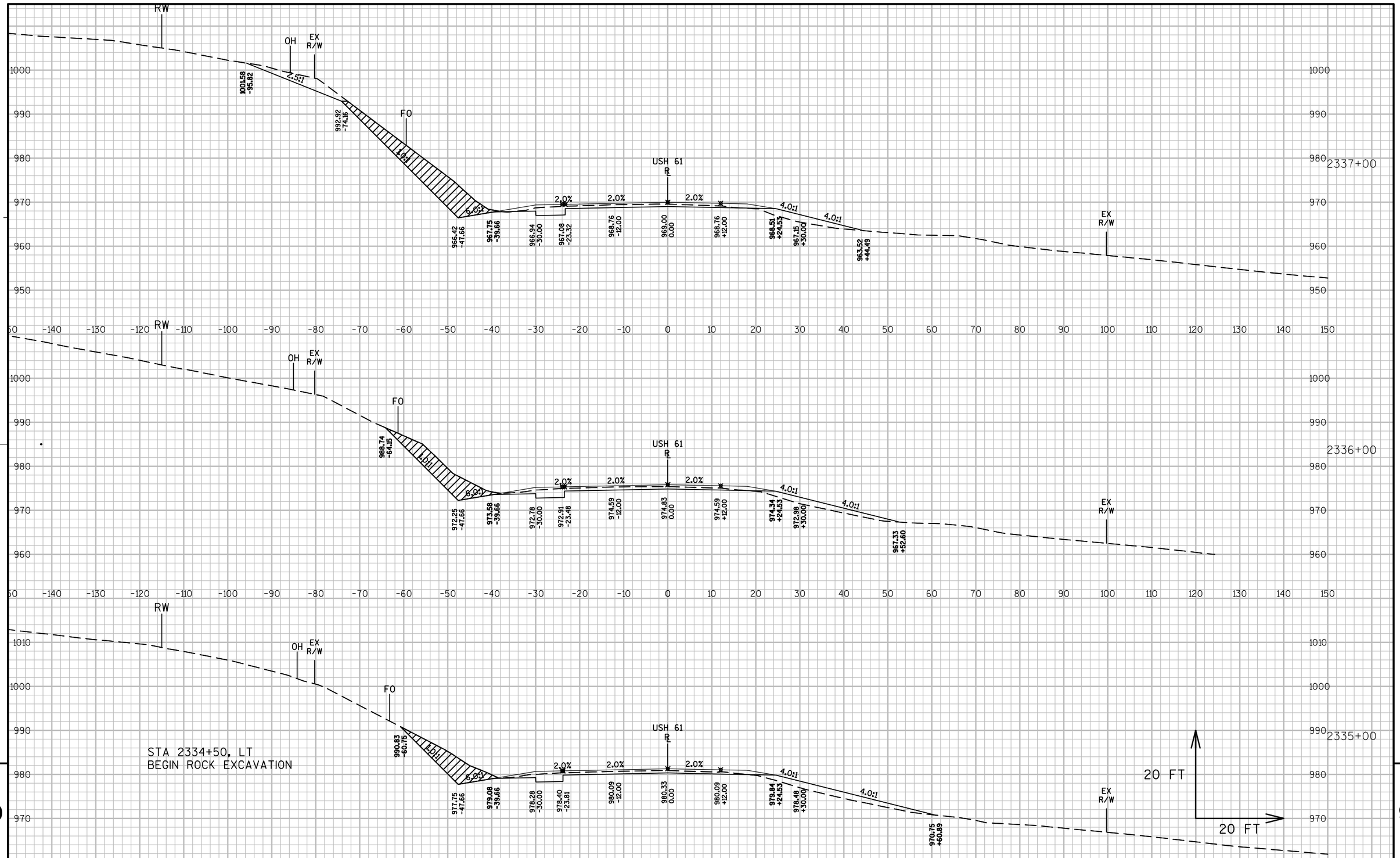
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:19 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 370	E

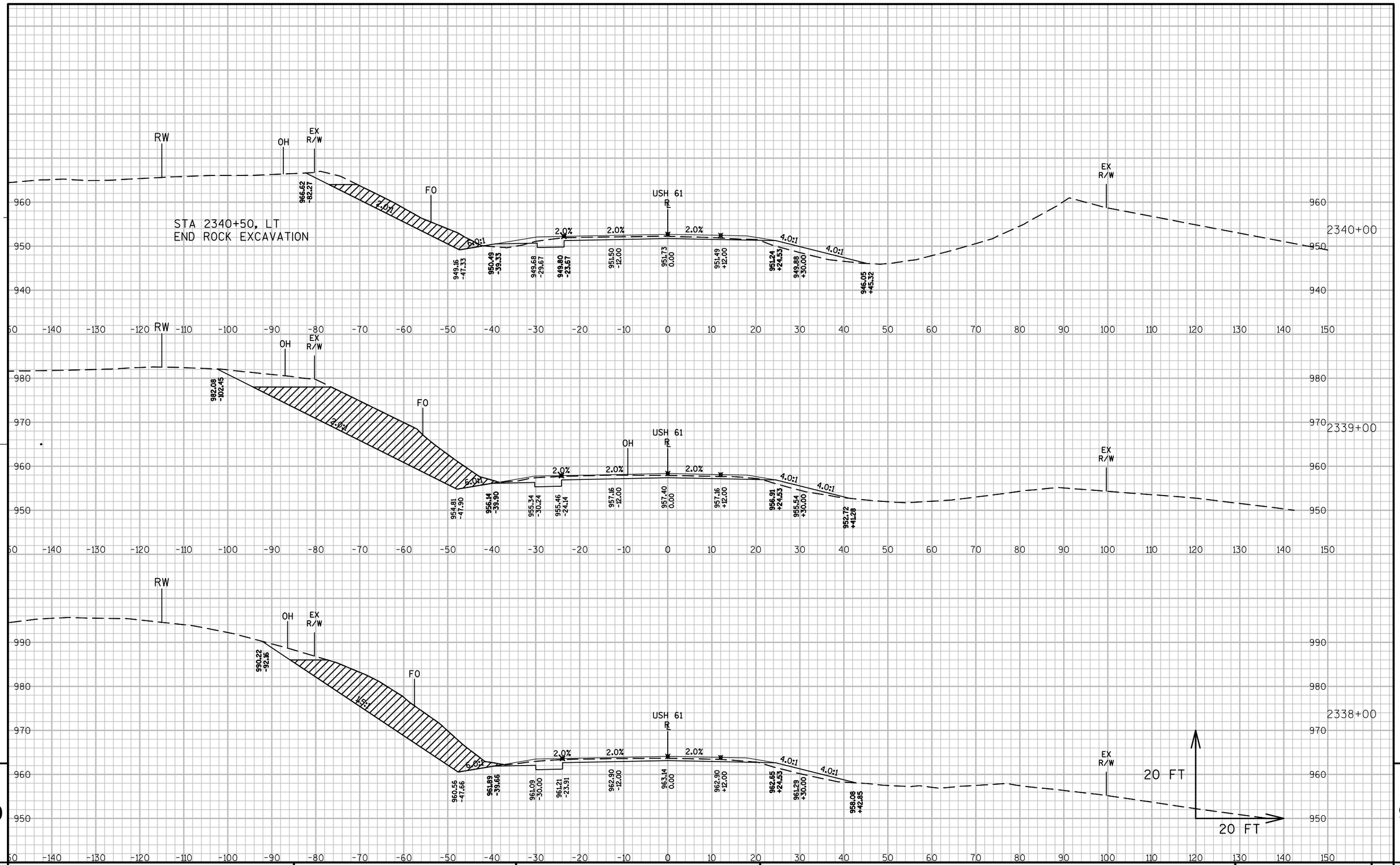
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:20 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 371	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:21 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

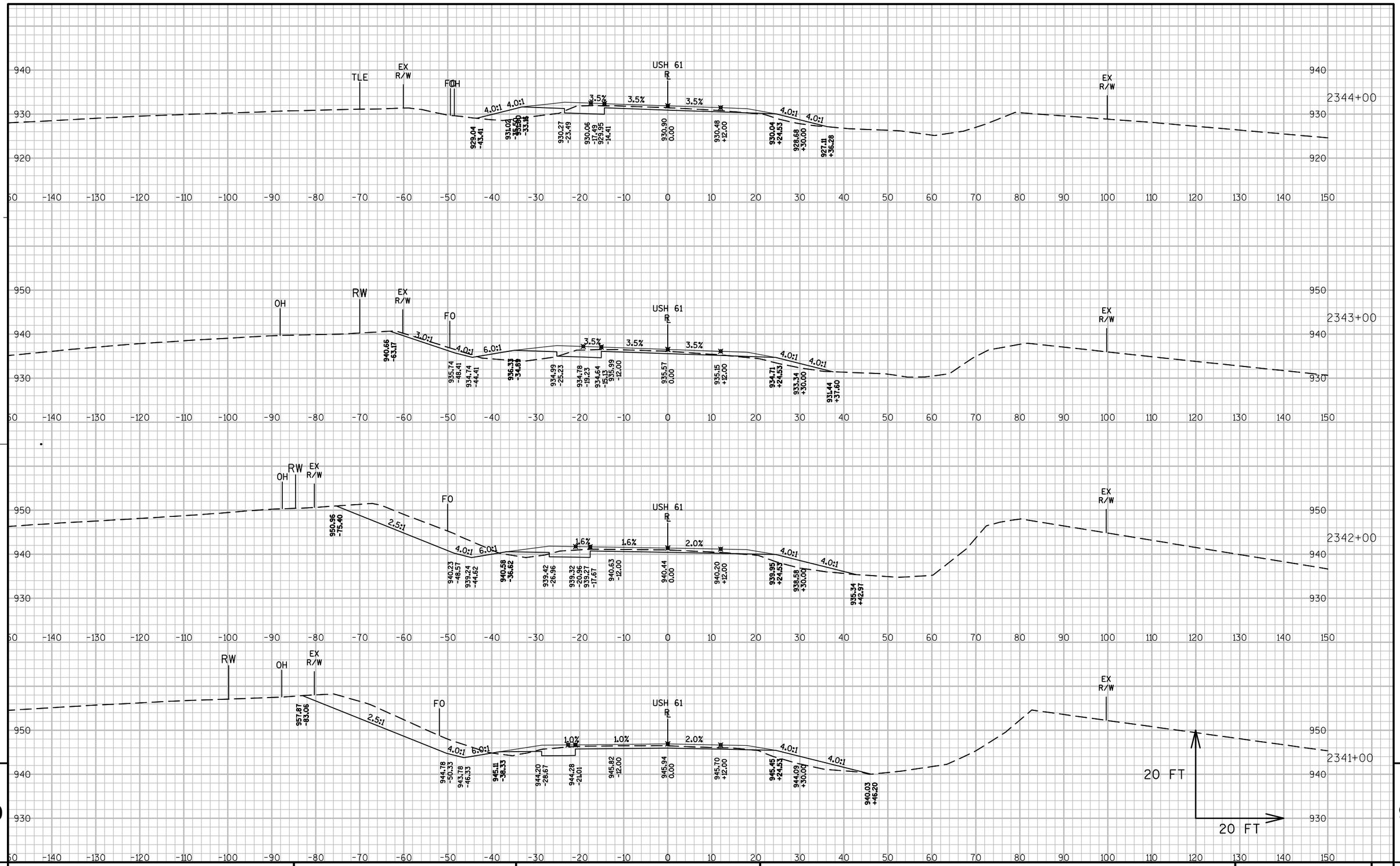


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 372	E

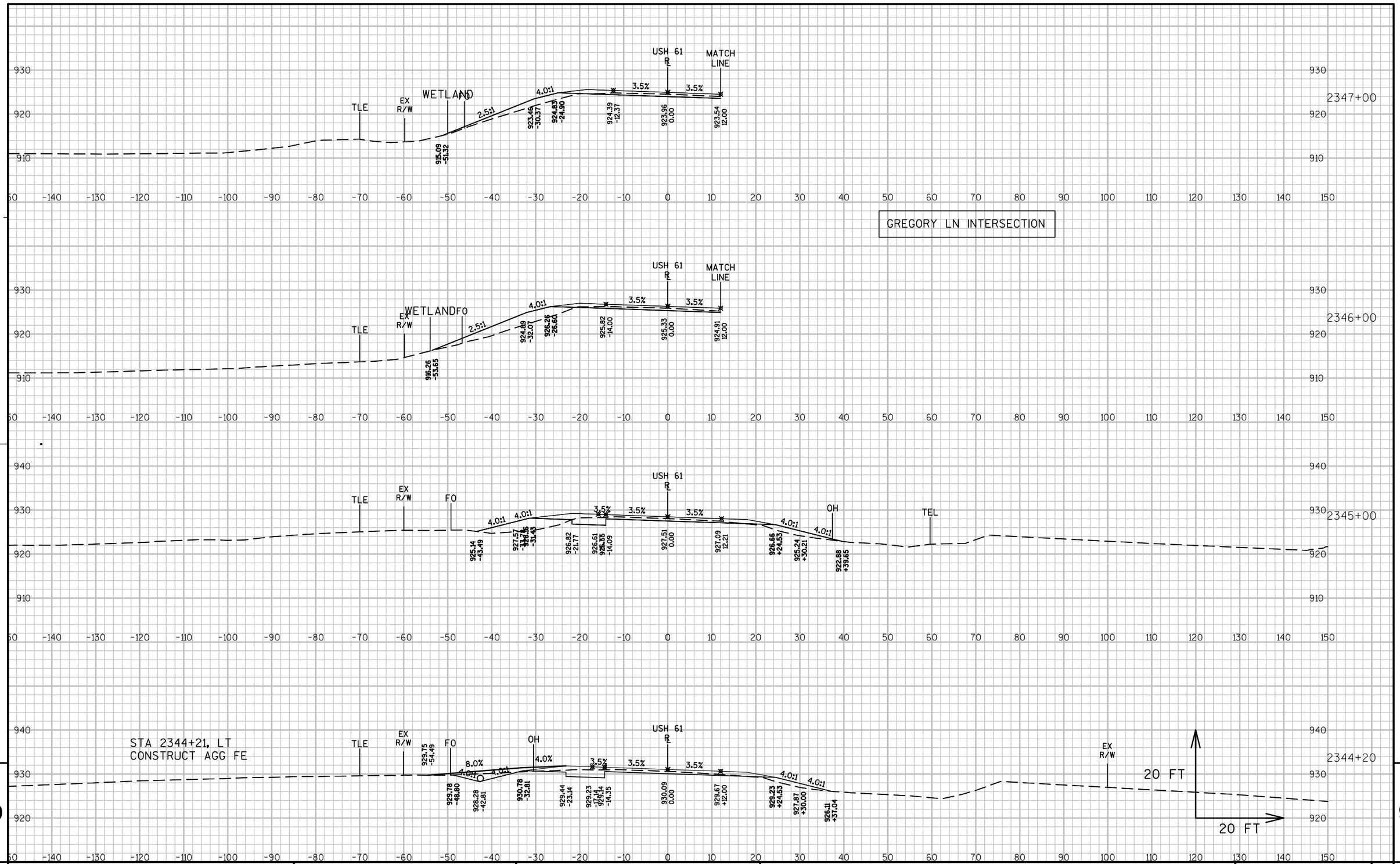
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:22 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 373	E

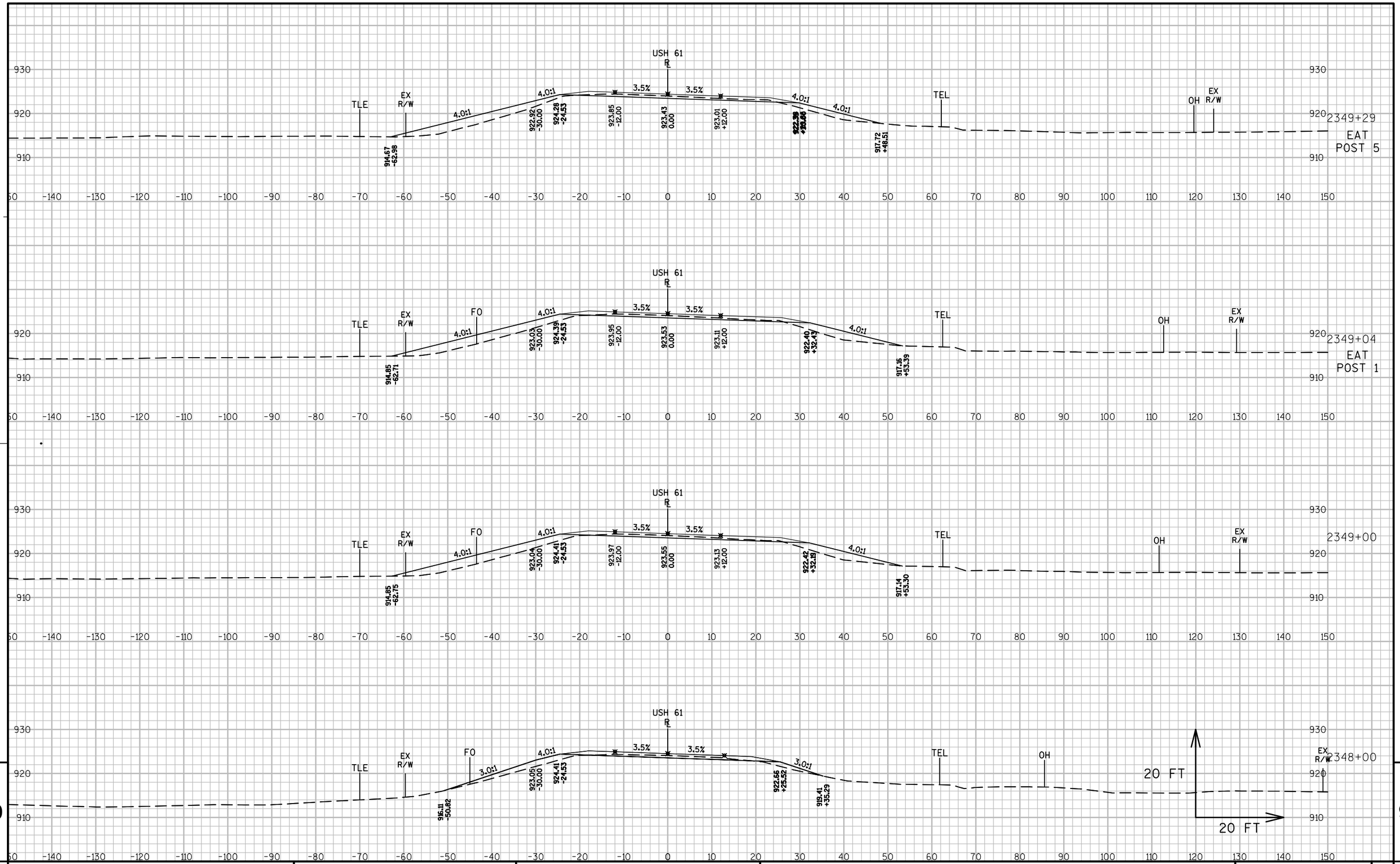
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:23 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 374	E

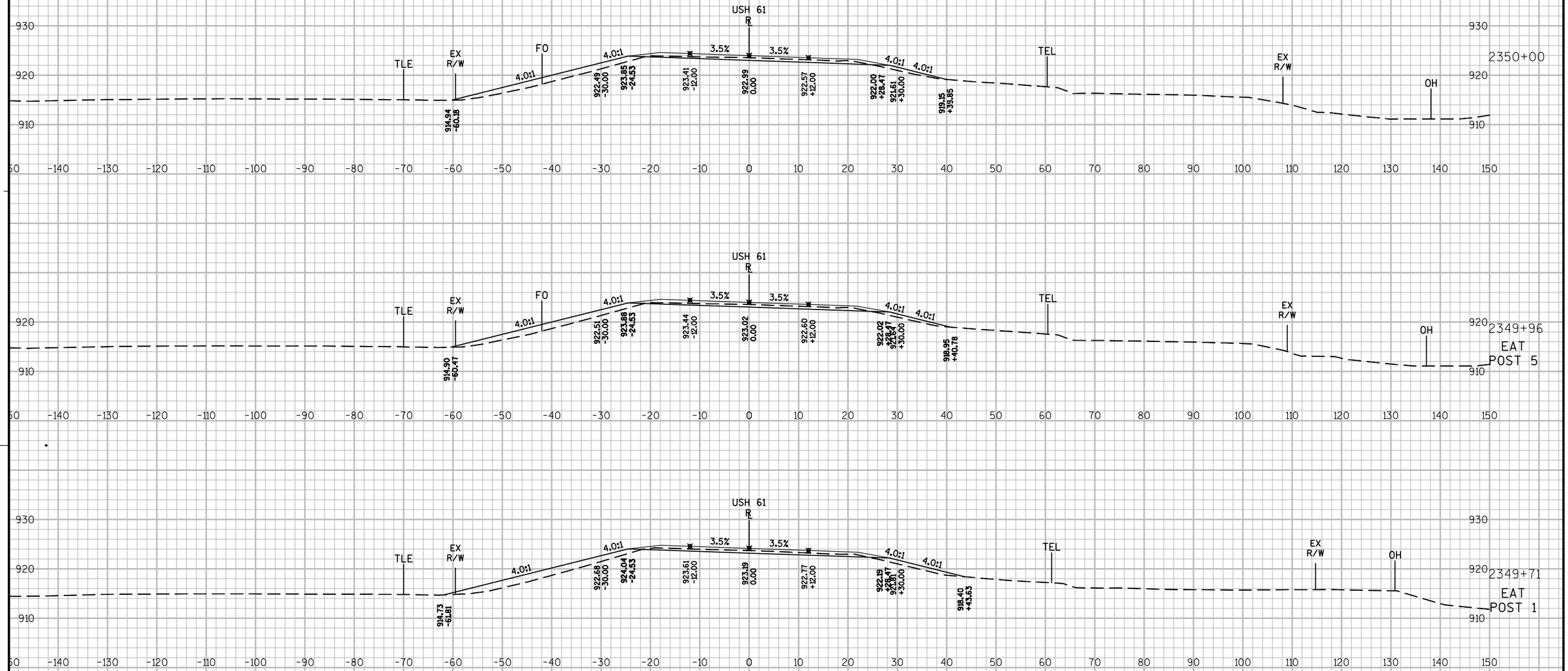
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:23 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 375	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:24 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

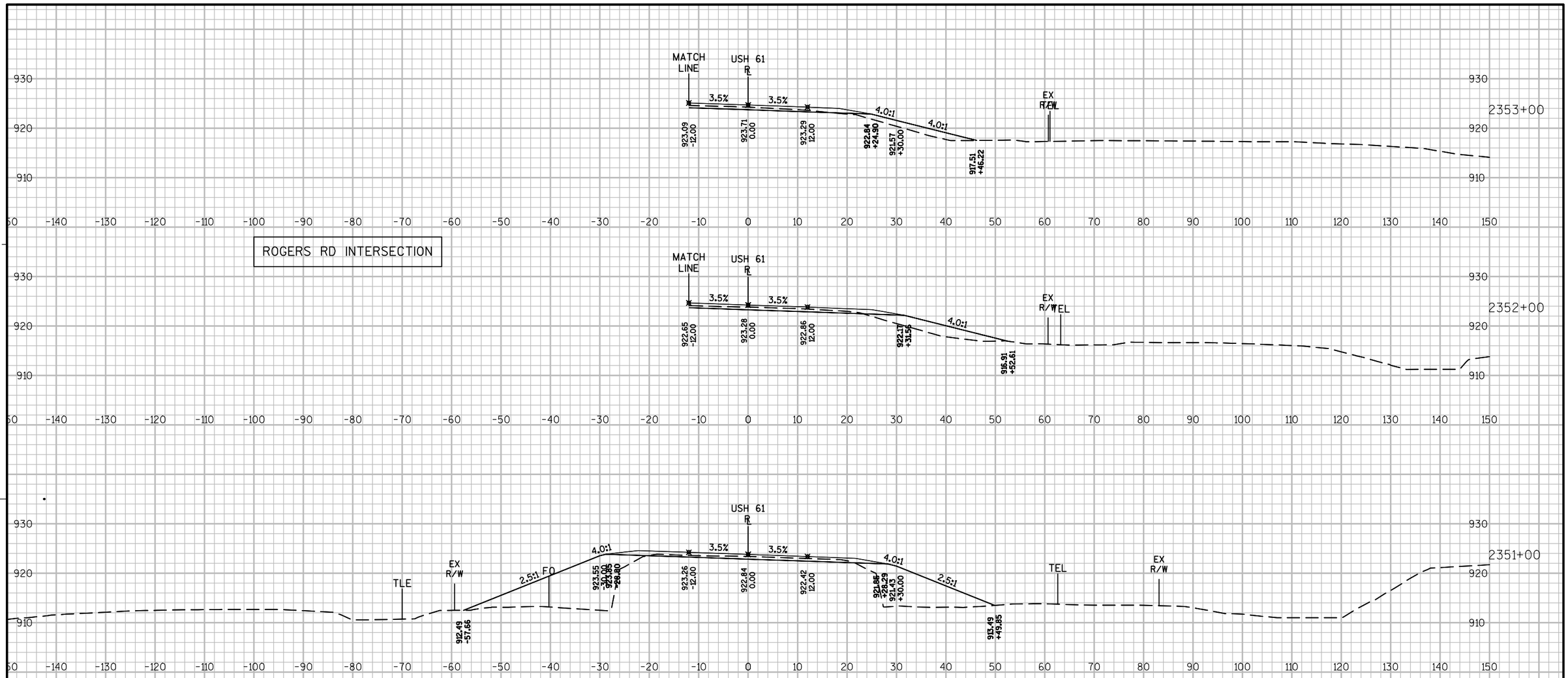
WISDOT/CADDS SHEET 49



9 9

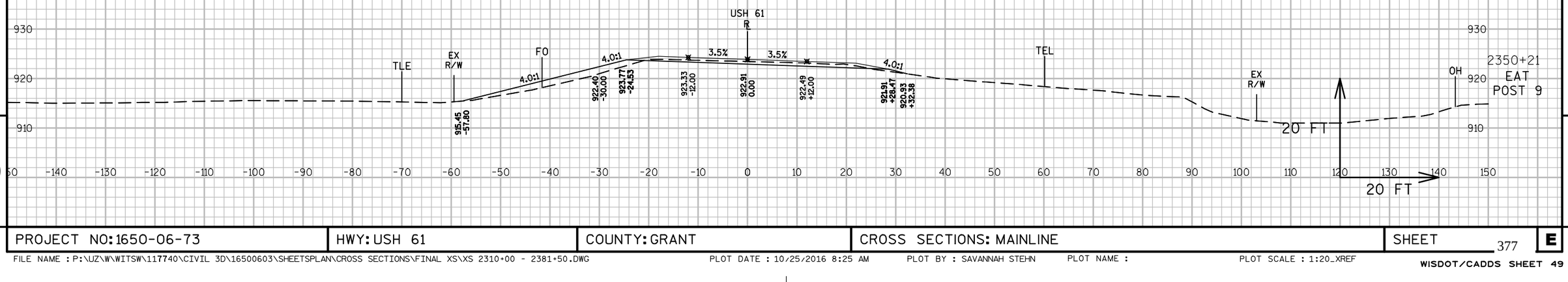
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 376	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:25 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



ROGERS RD INTERSECTION

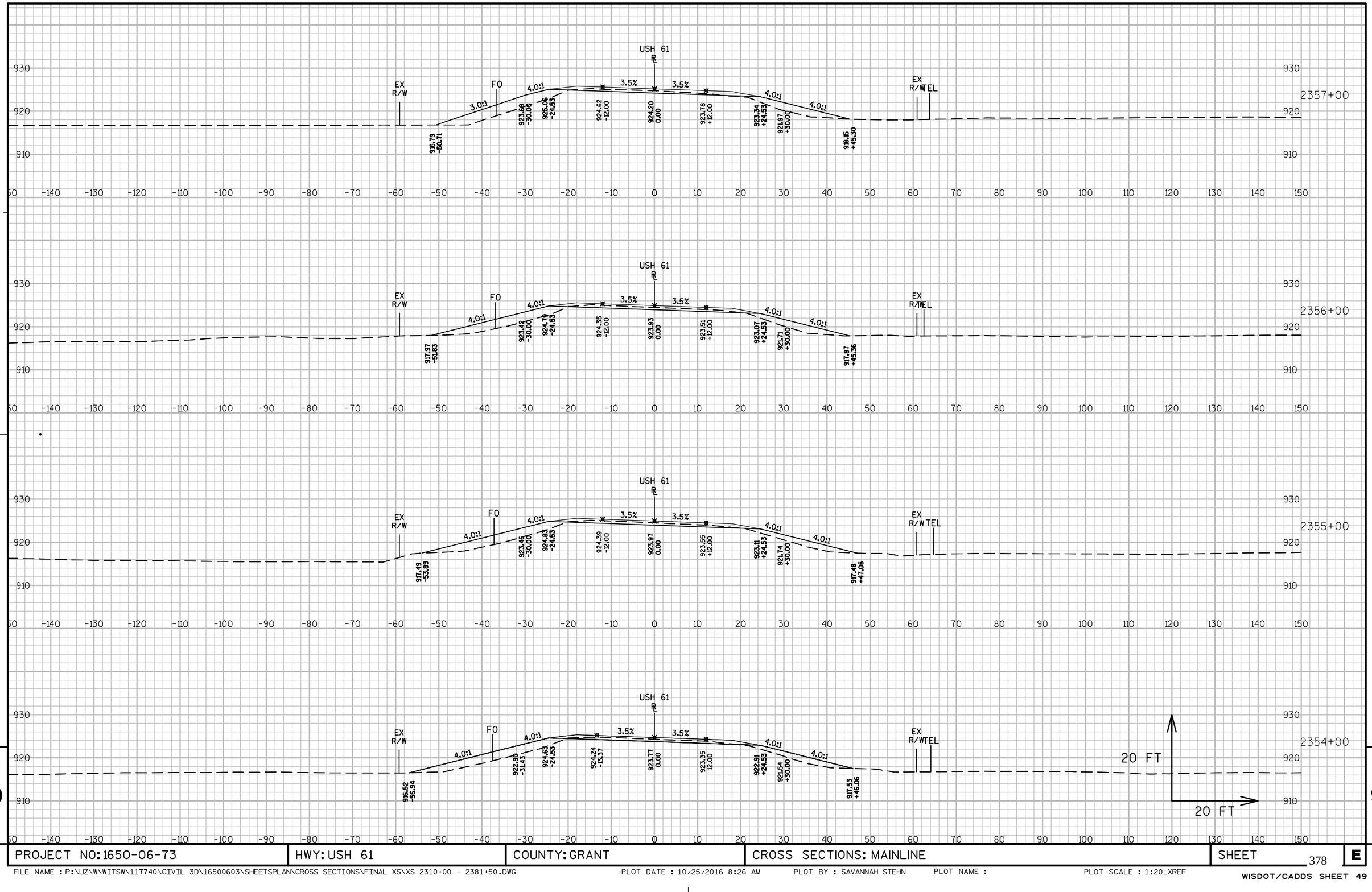
STRUCTURE B-22-0702
STA 2350+63 - STA 2350+95



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 377	E

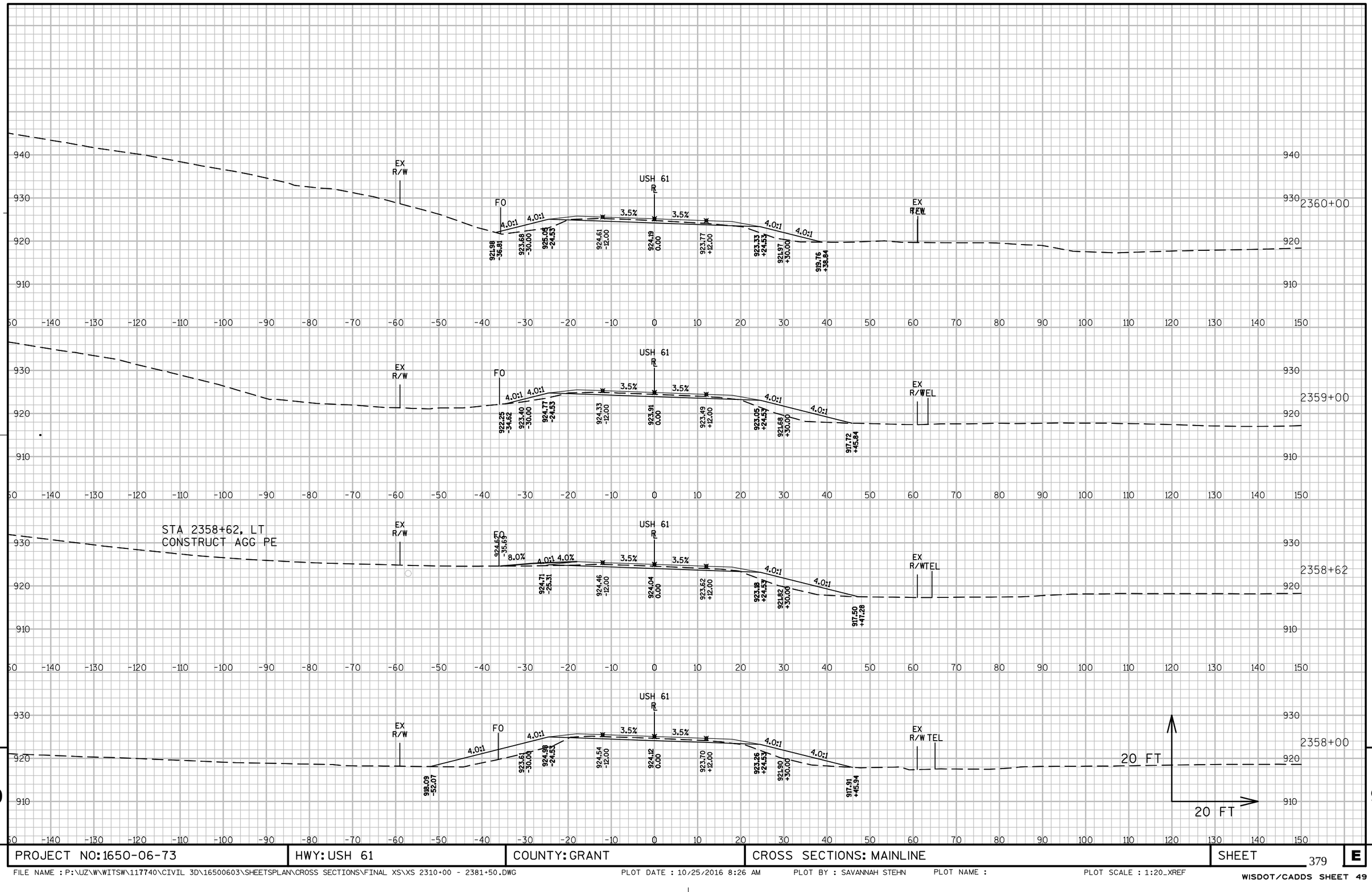
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:25 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 378	E



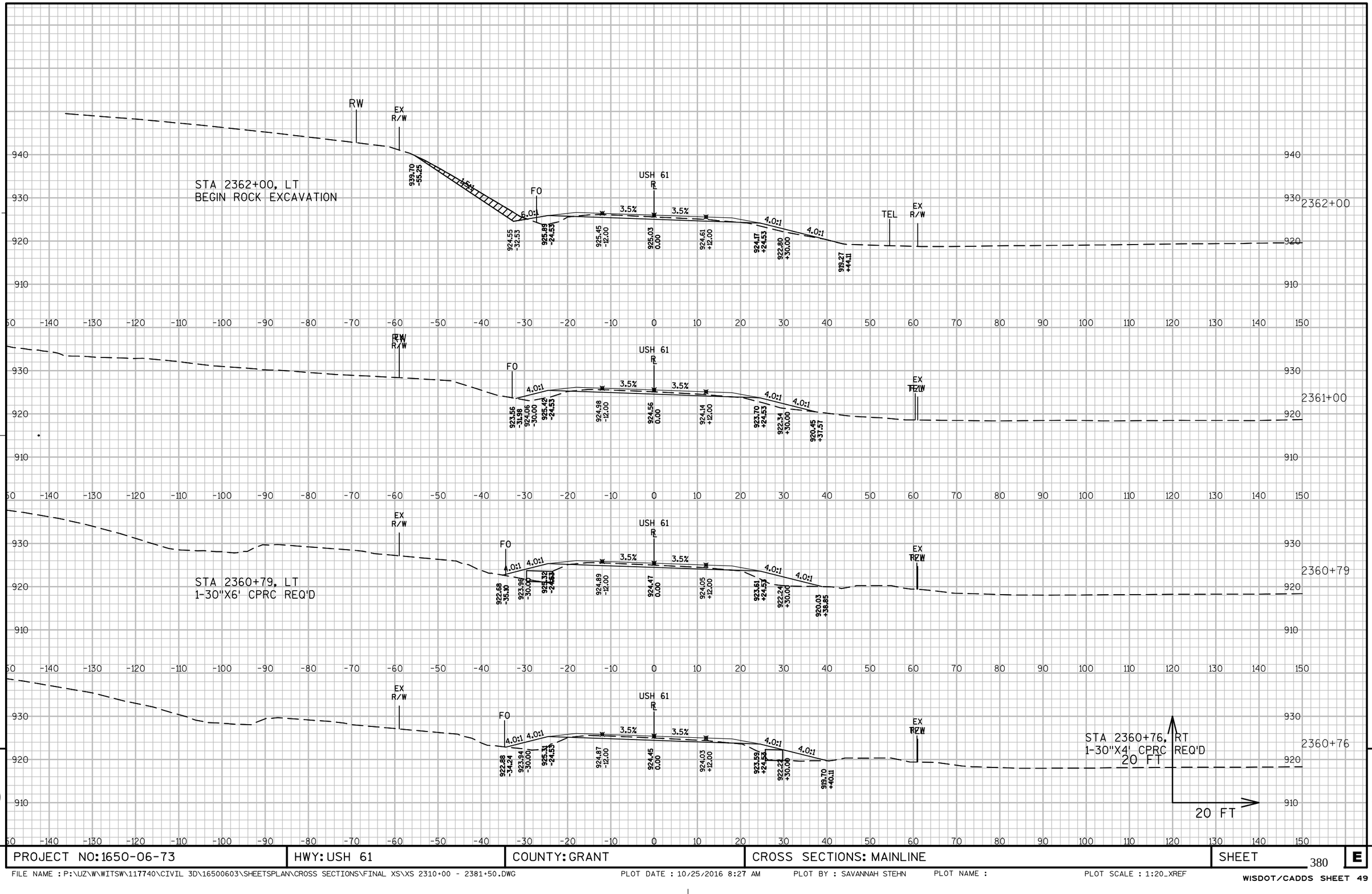
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 379	E

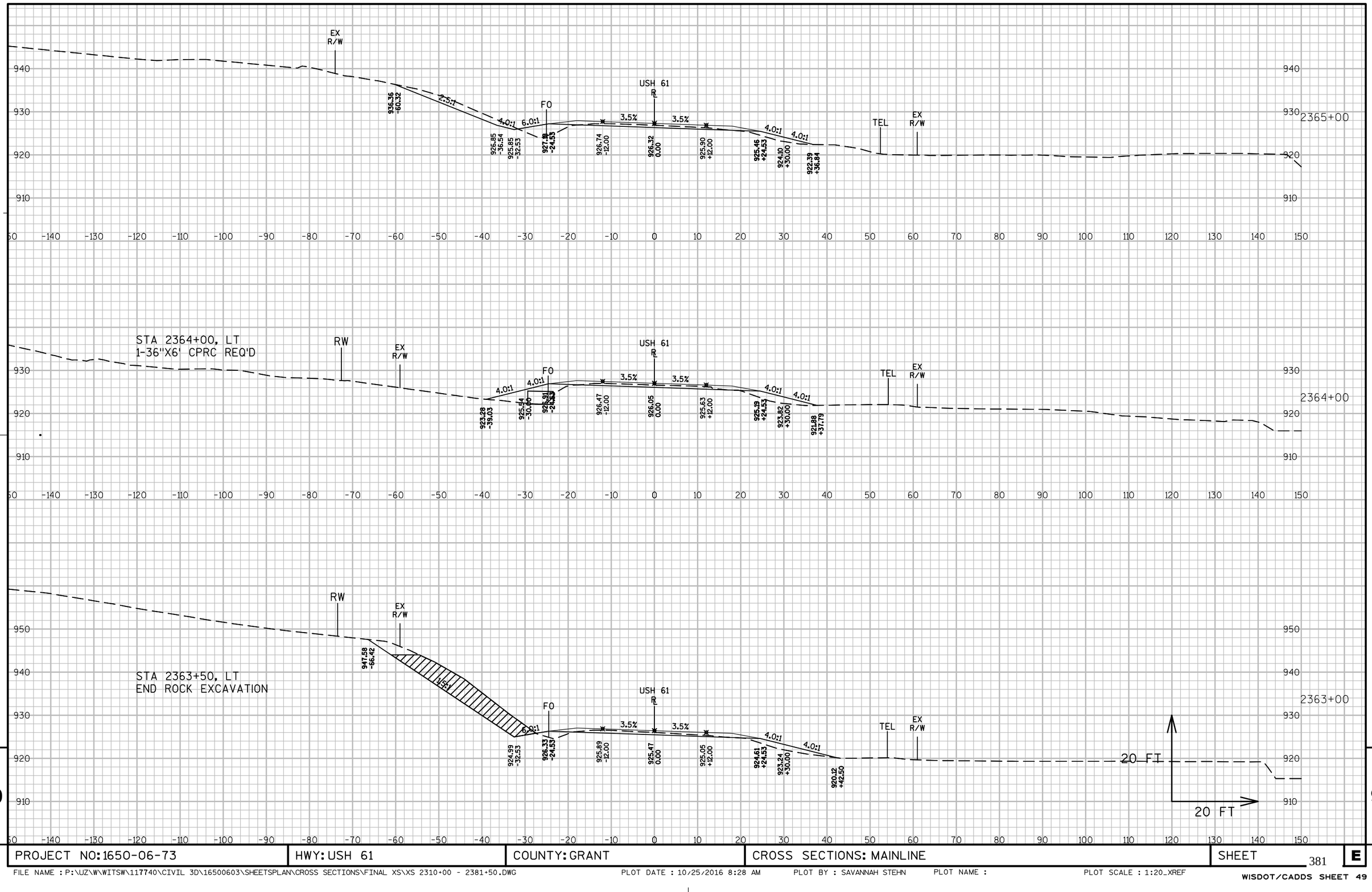
9

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:26 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



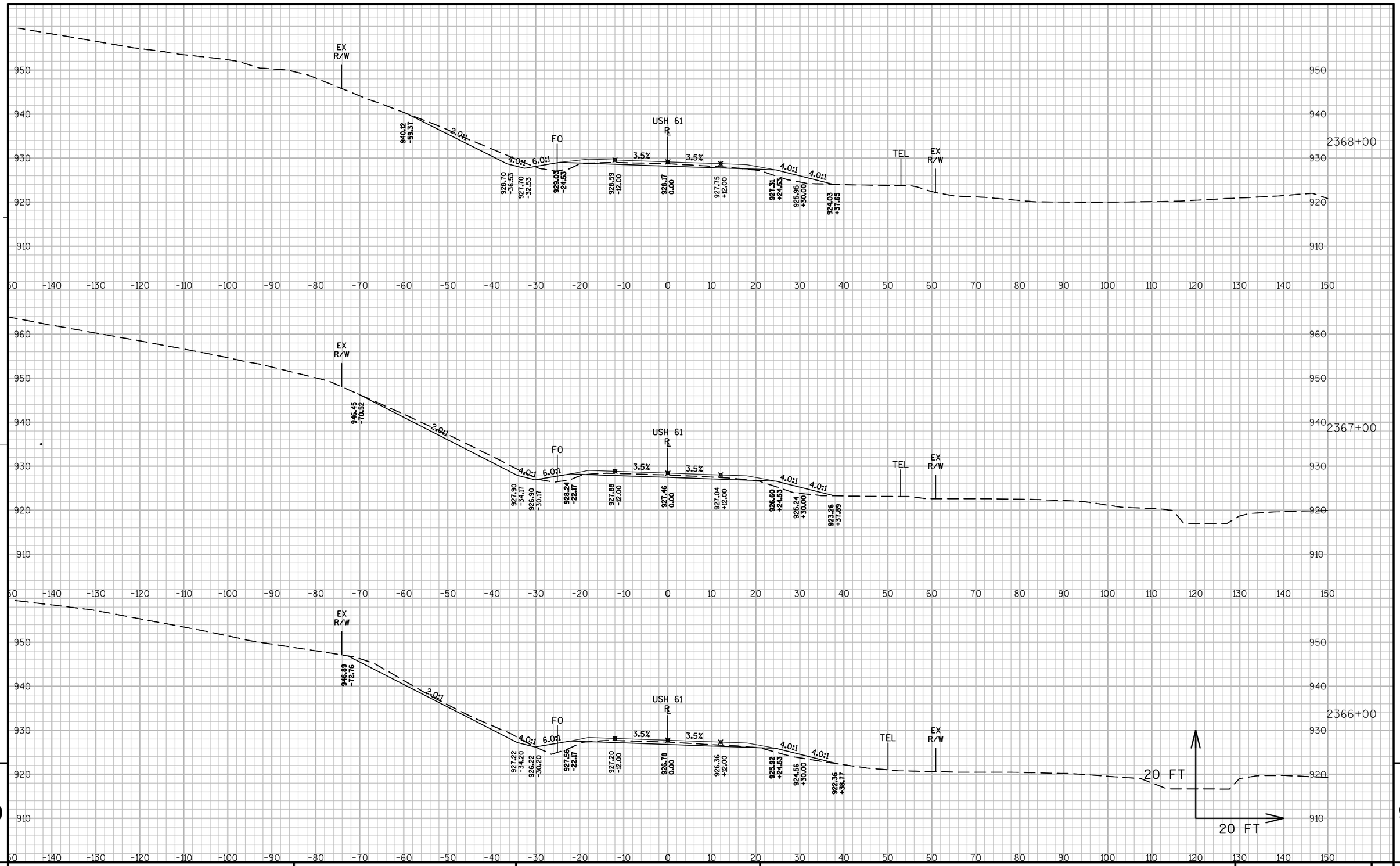
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 380	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 381	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:28 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

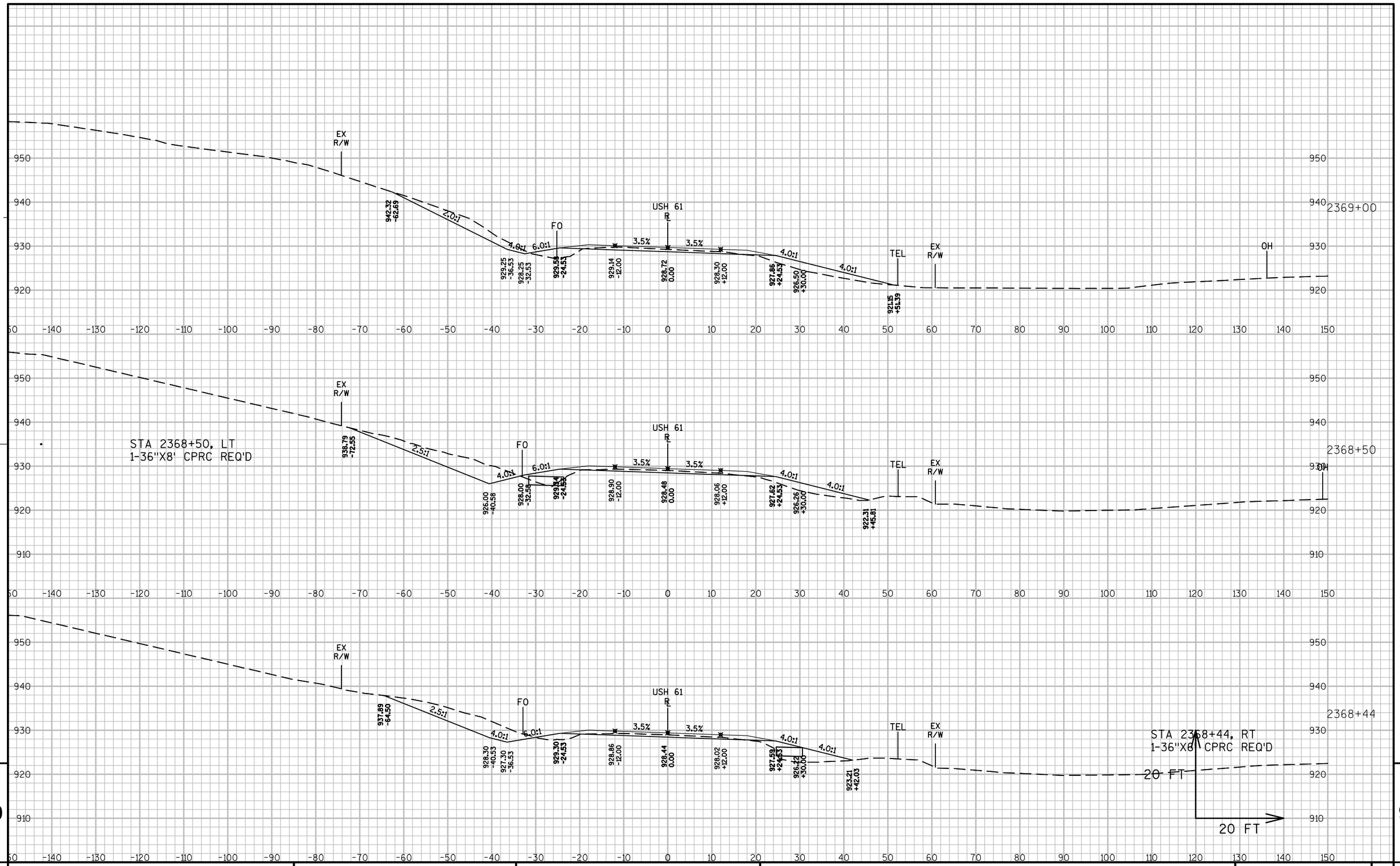
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 382	E

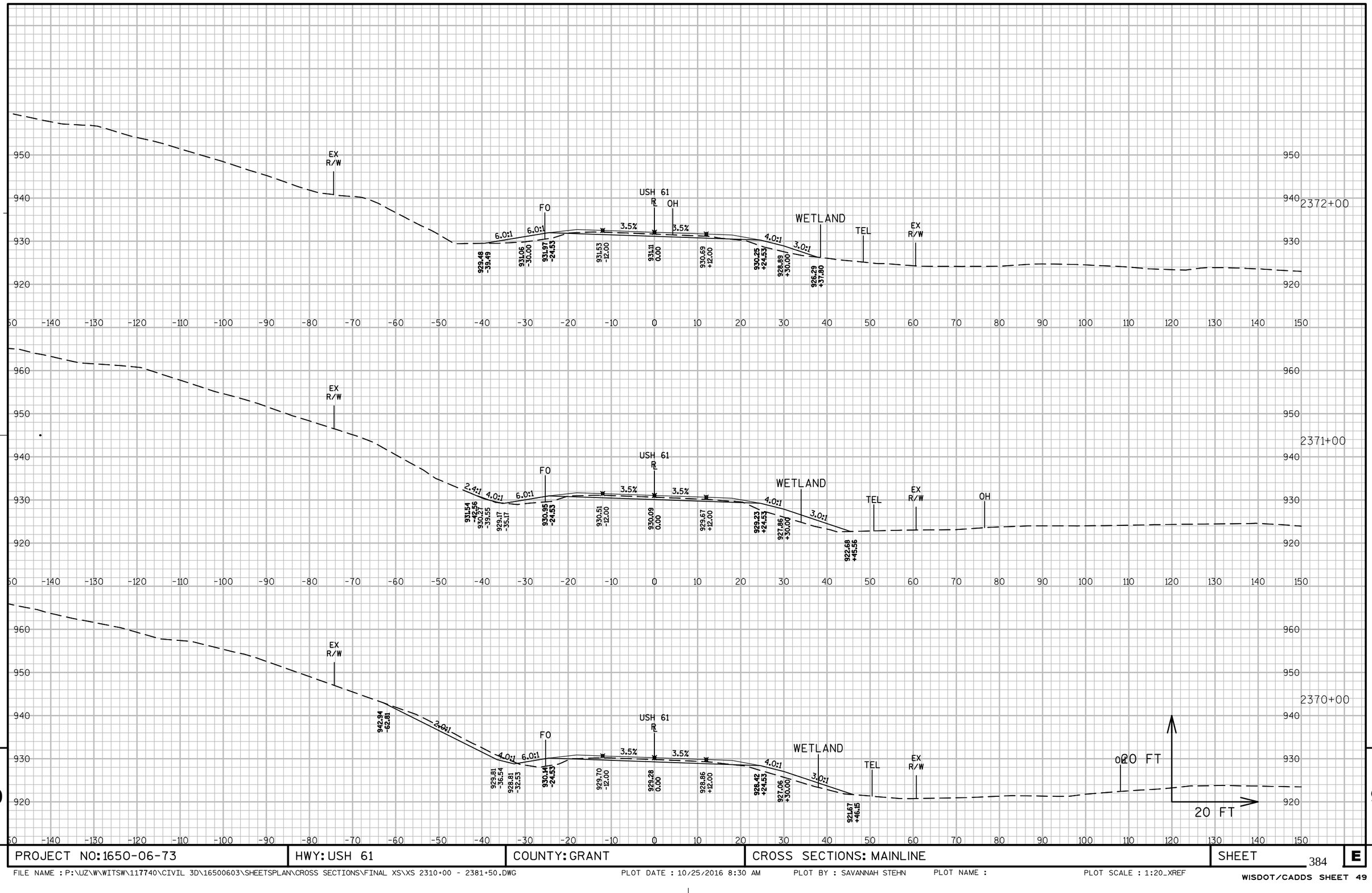
FILE NAME : P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:28 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 383	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:29 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

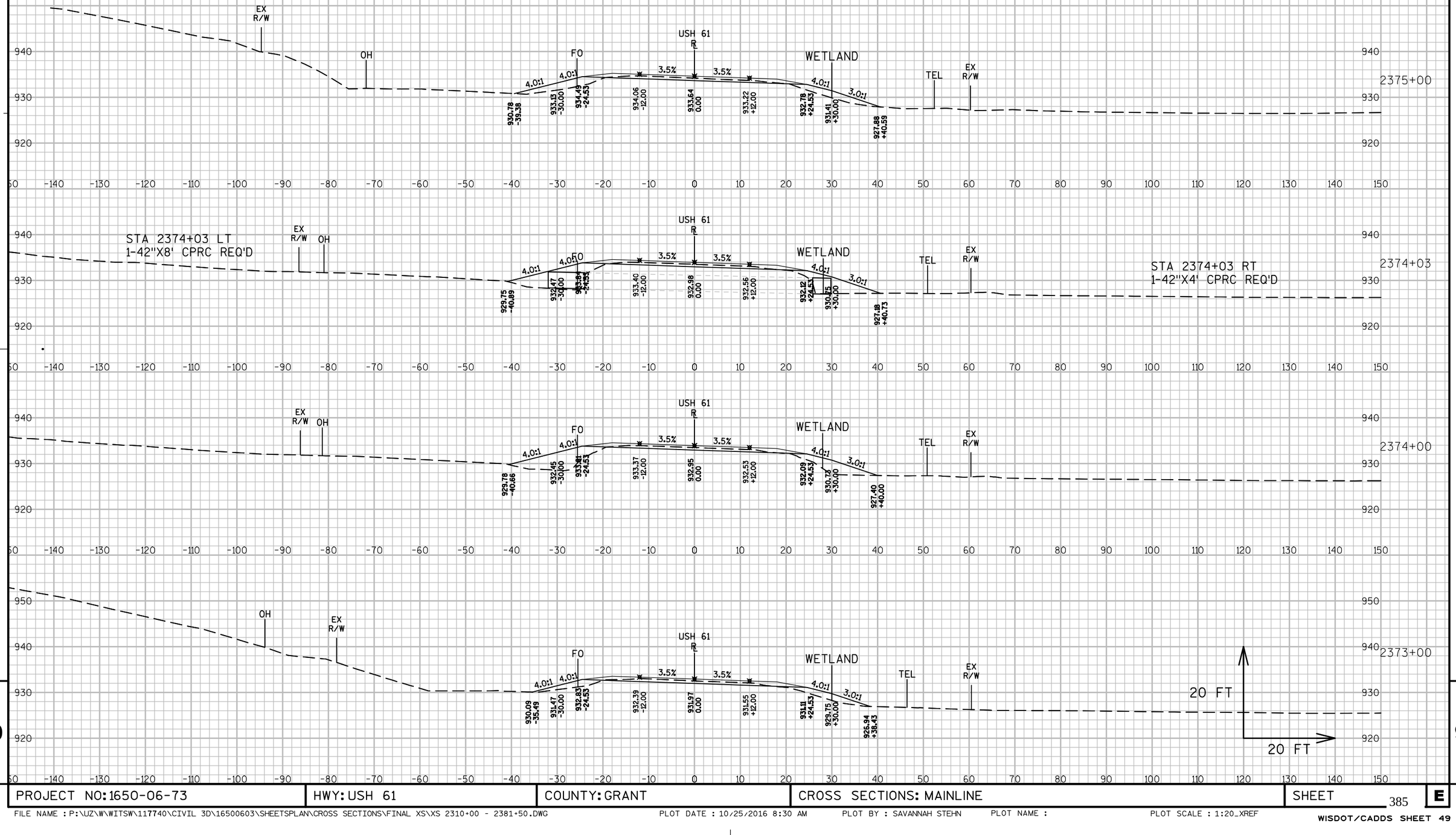


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 384	E

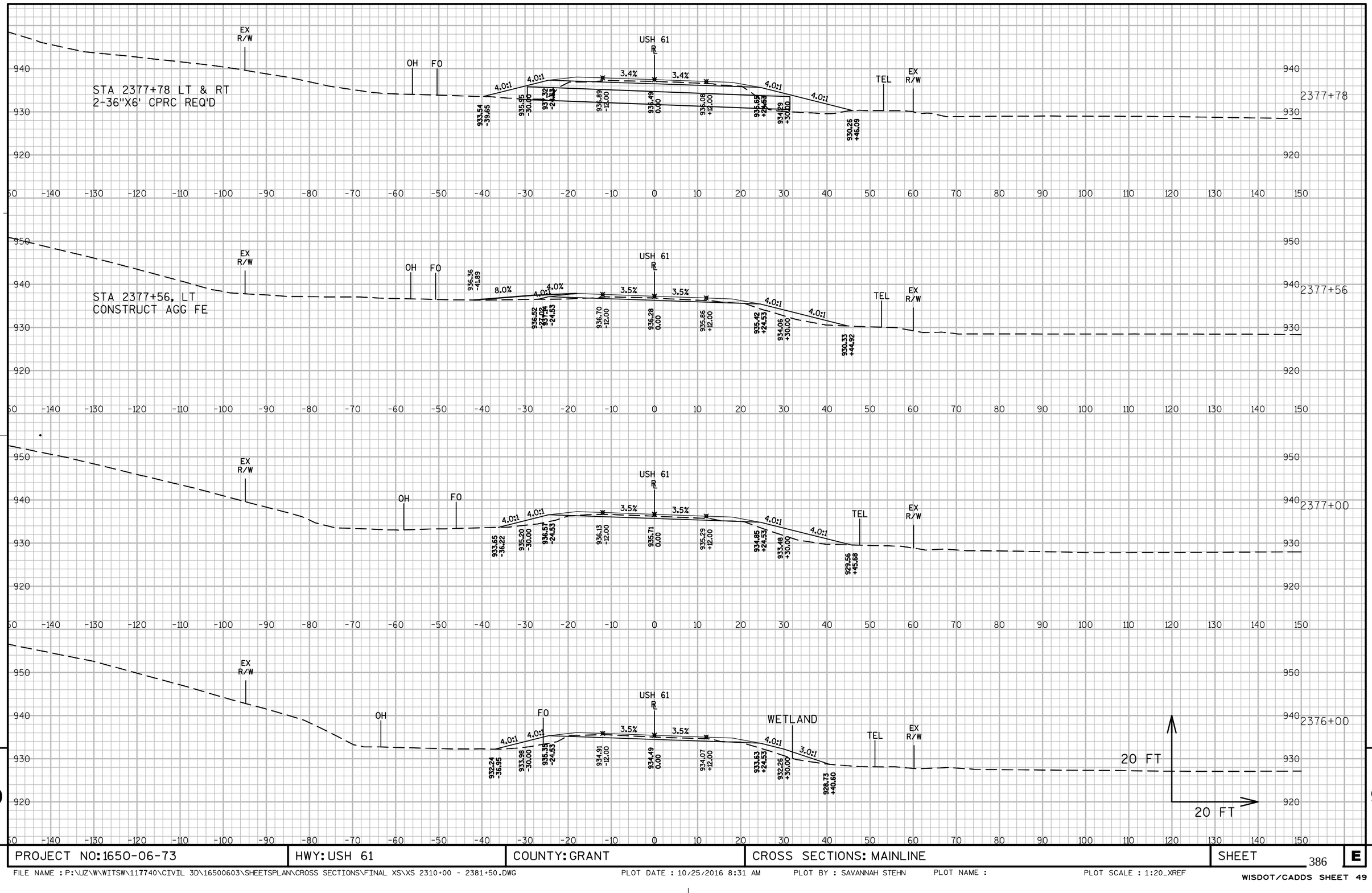
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:30 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 385	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:30 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

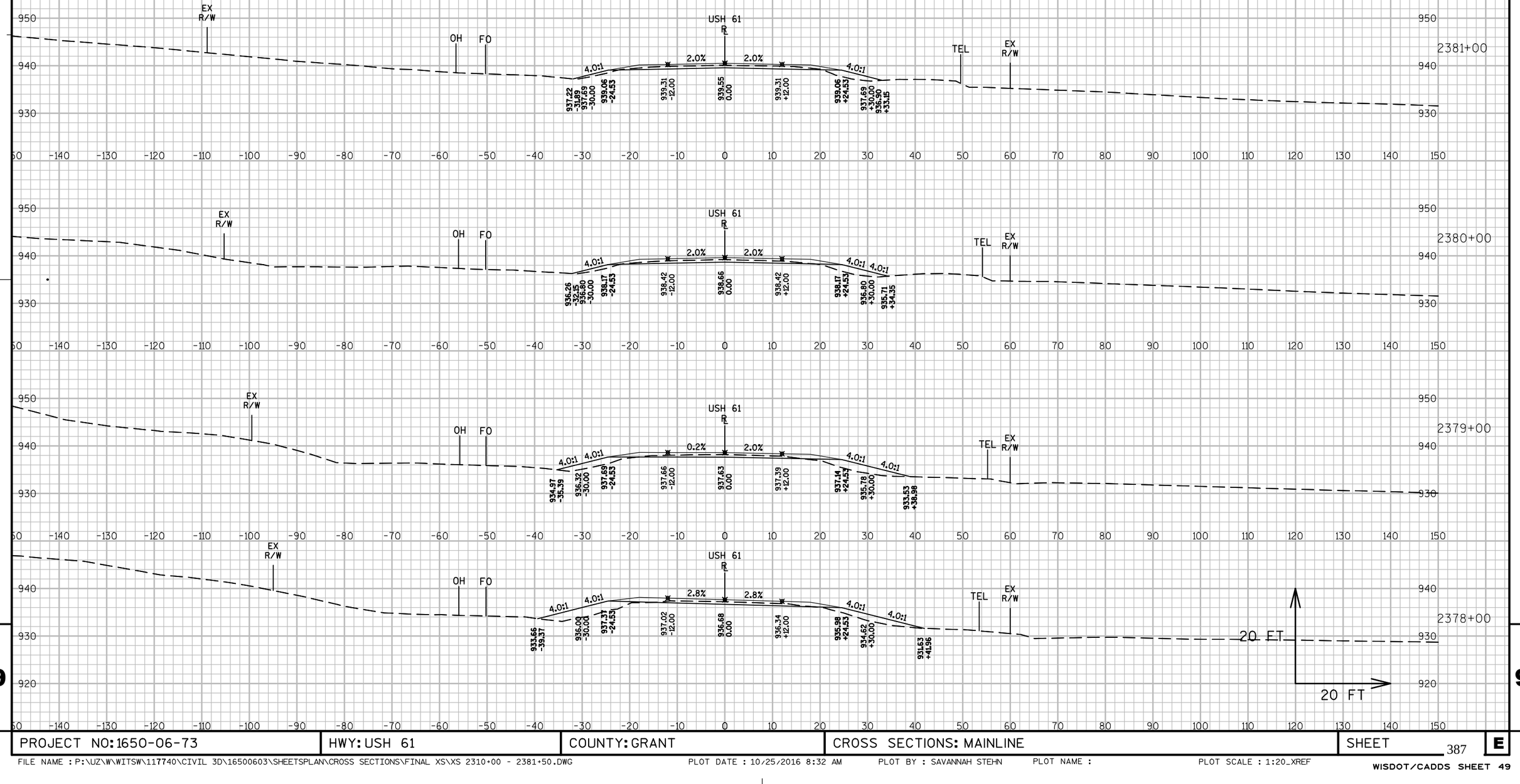
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 386	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:31 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

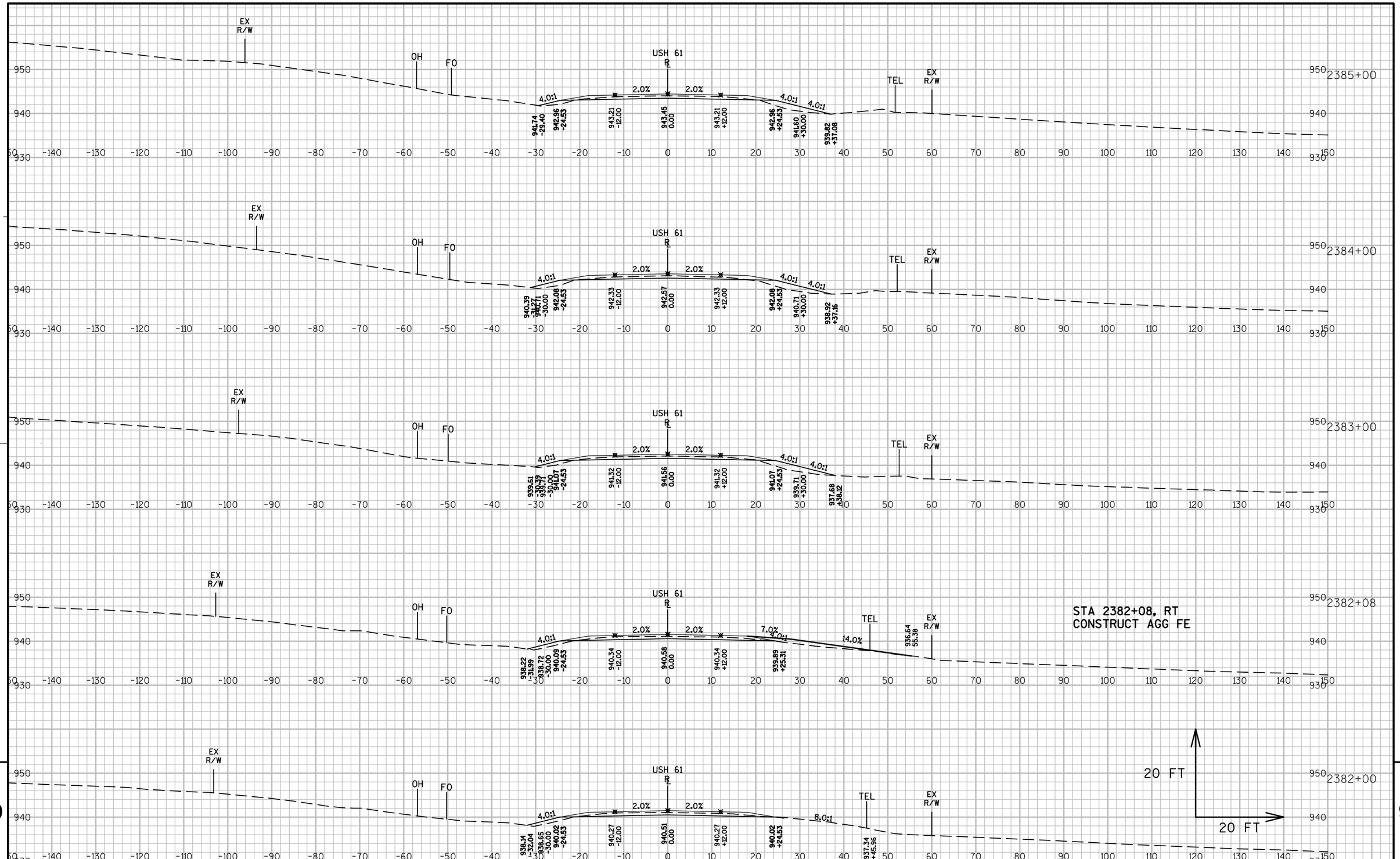
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 387	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2310+00 - 2381+50.DWG PLOT DATE : 10/25/2016 8:32 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

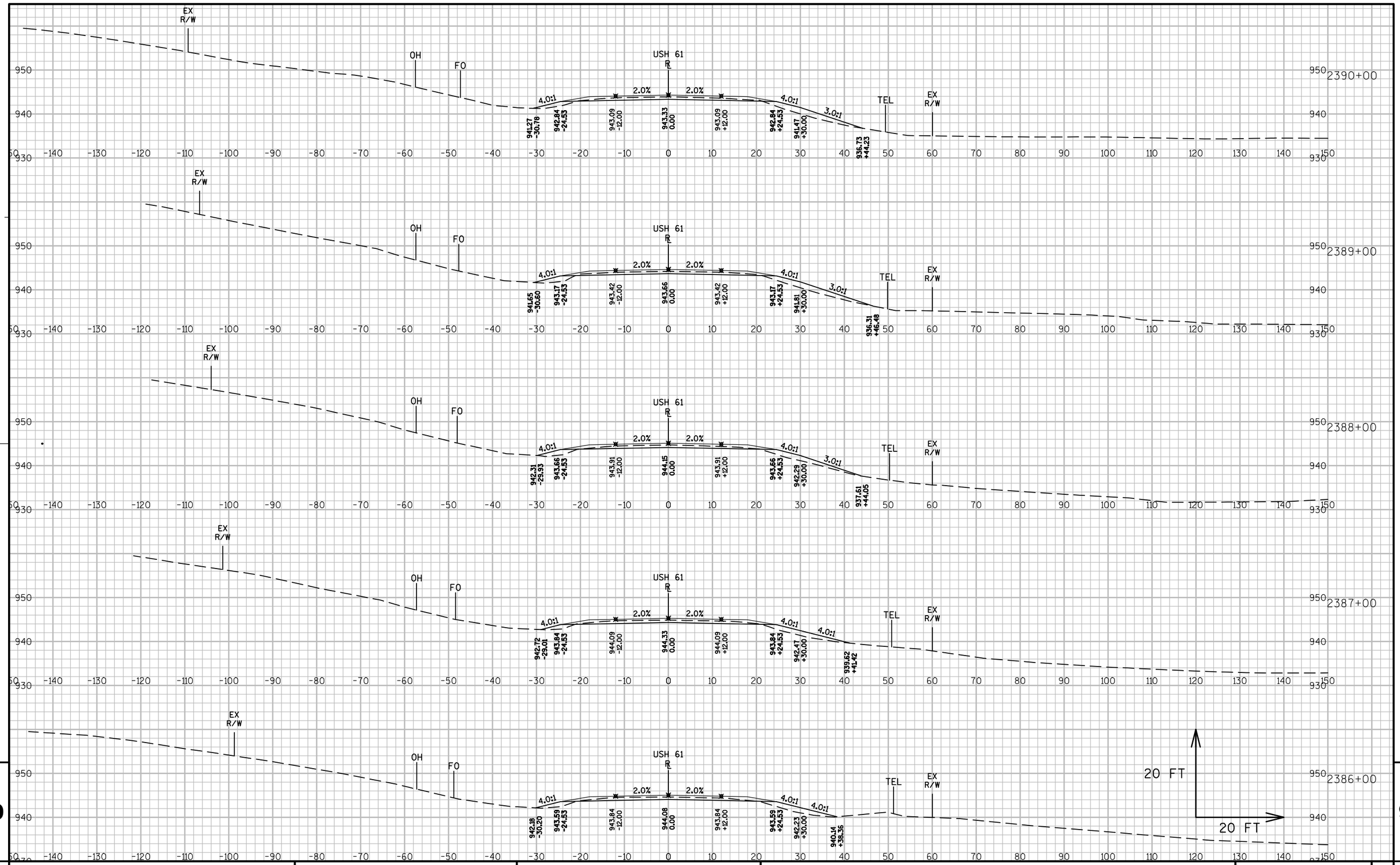
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 388

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:38 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

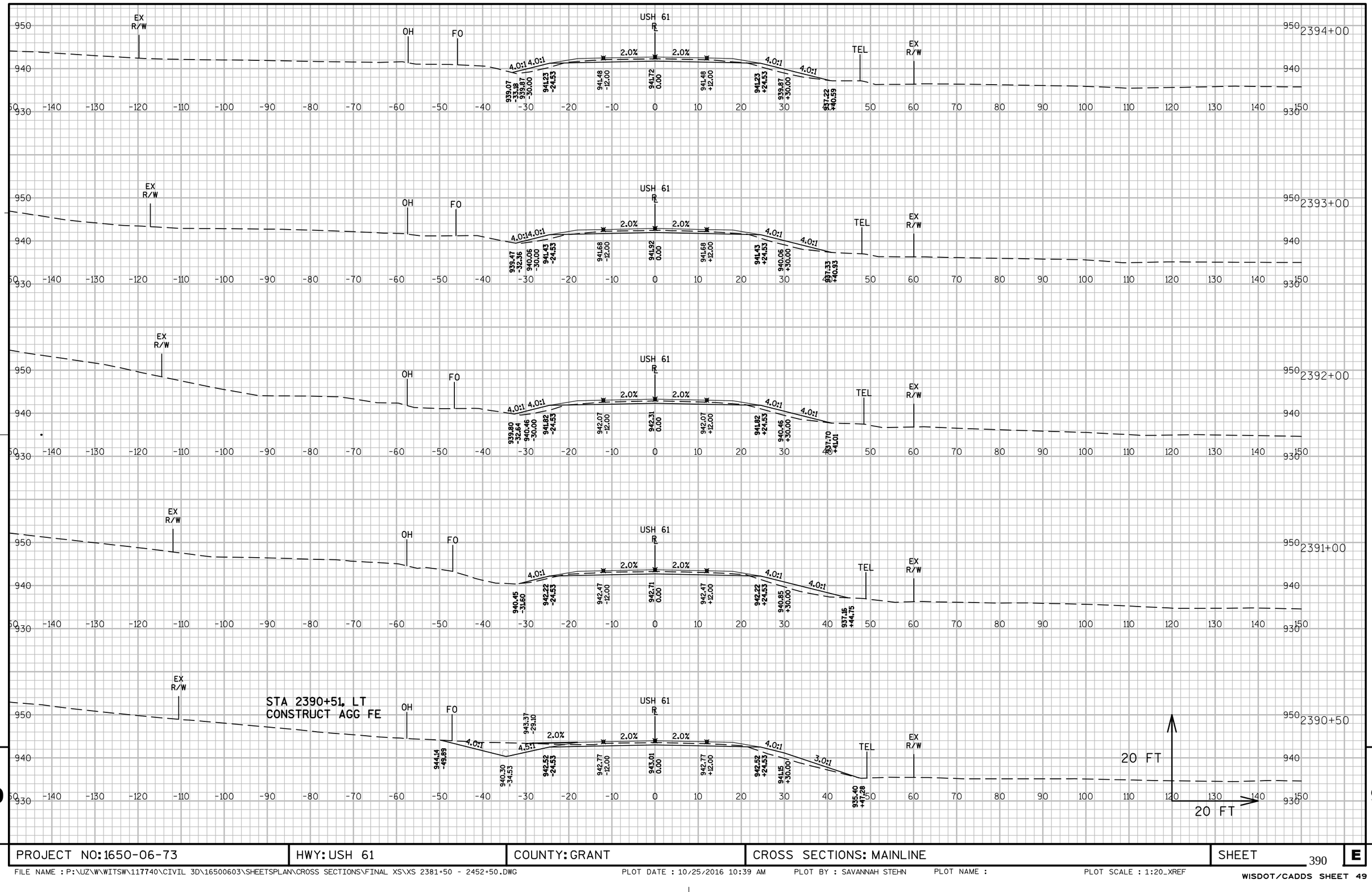


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 389	E

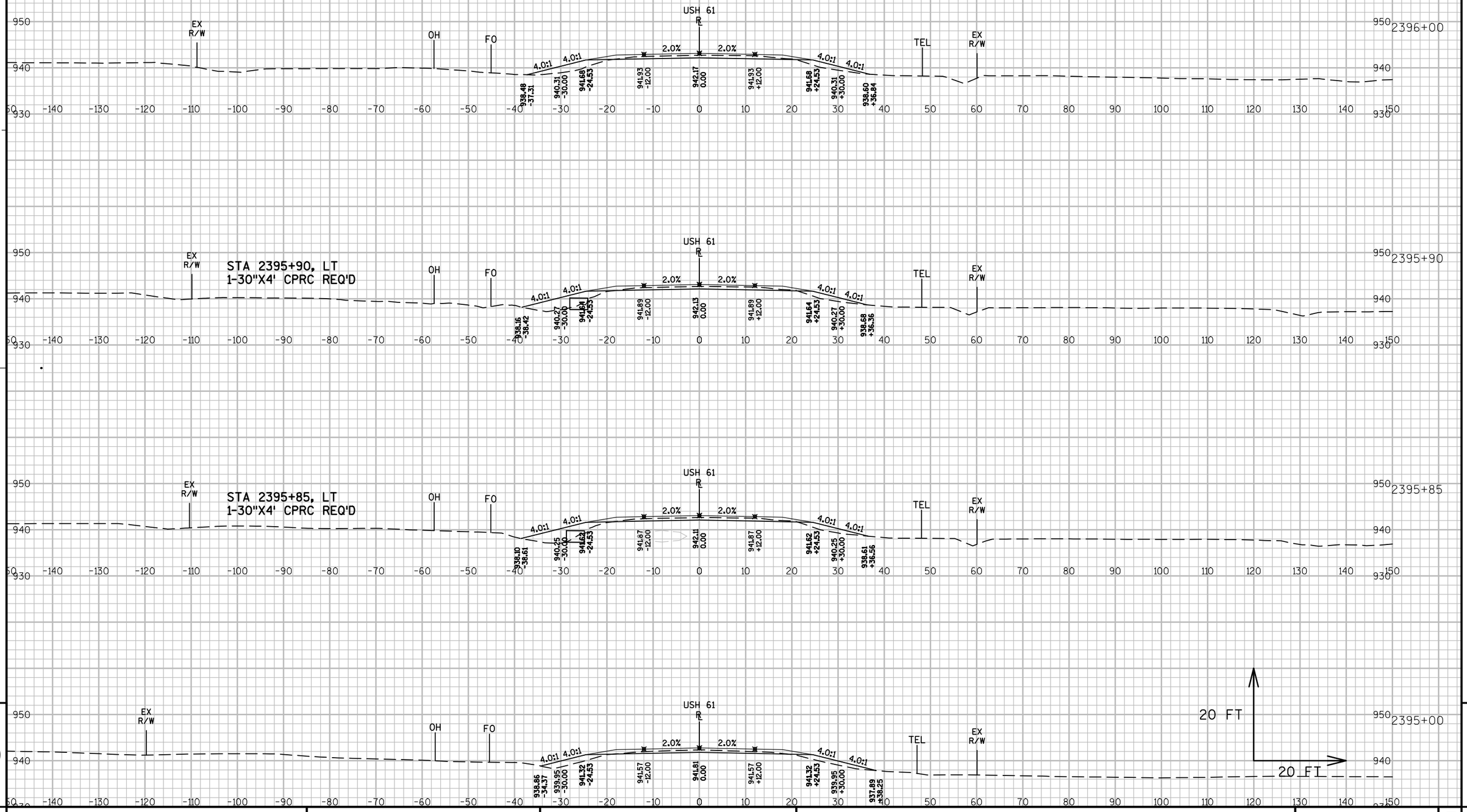
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:39 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 390	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:39 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

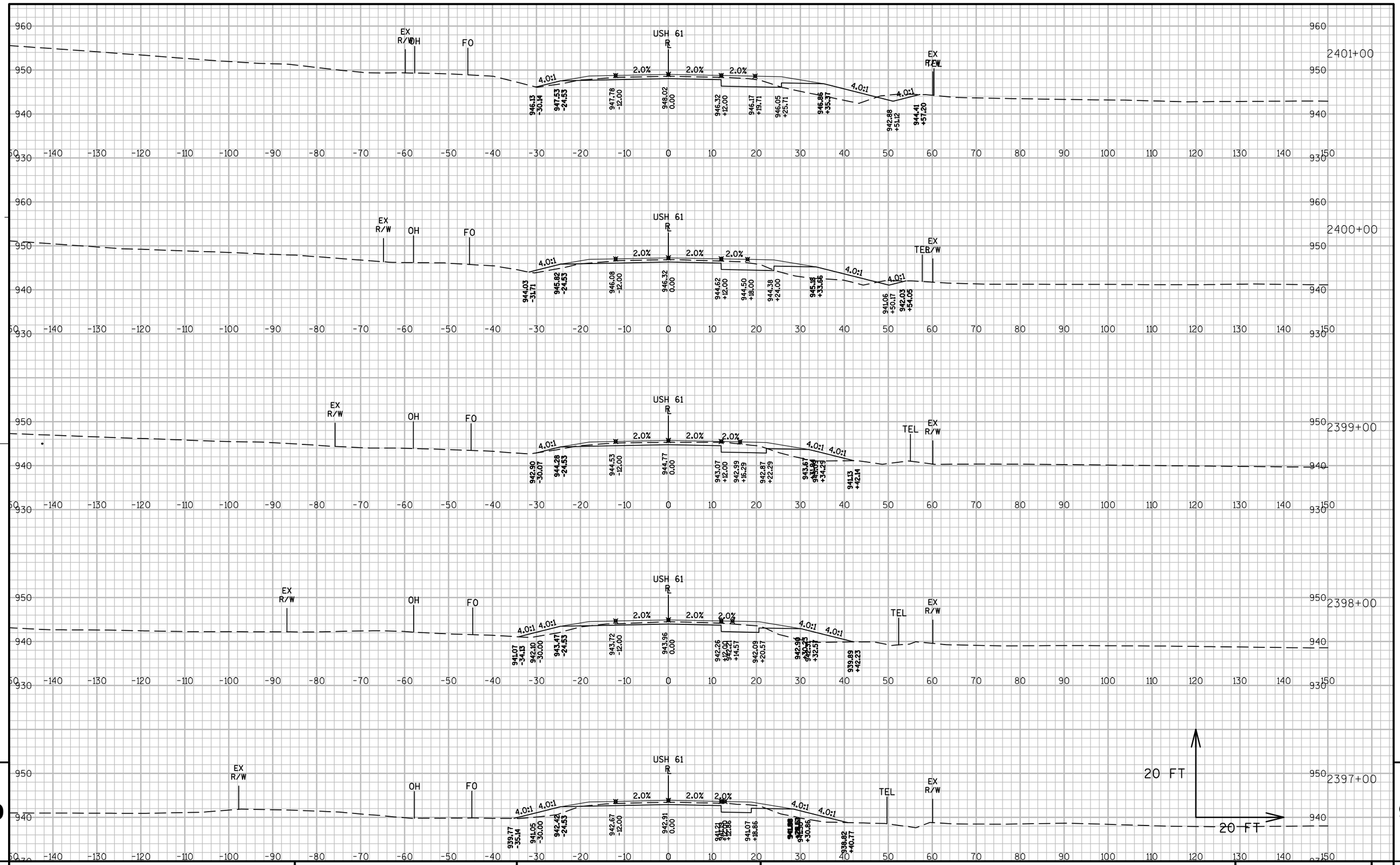
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 391	E

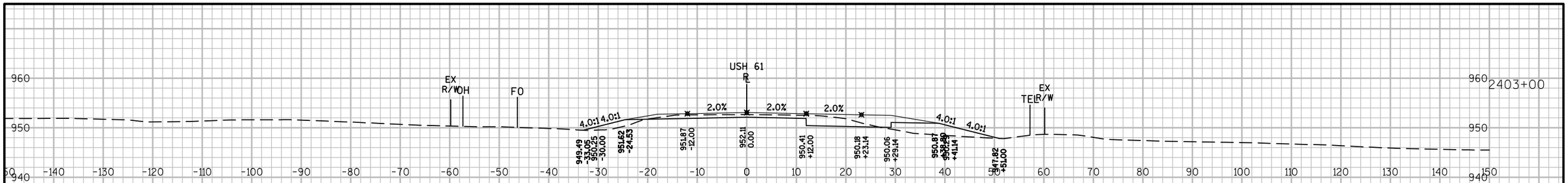
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:40 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

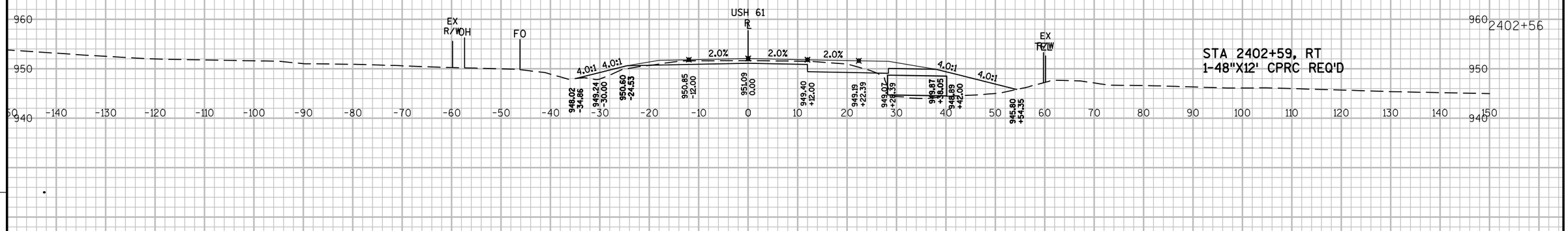


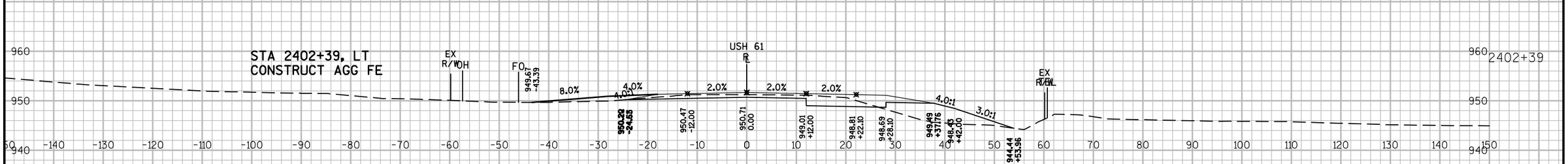
9 9

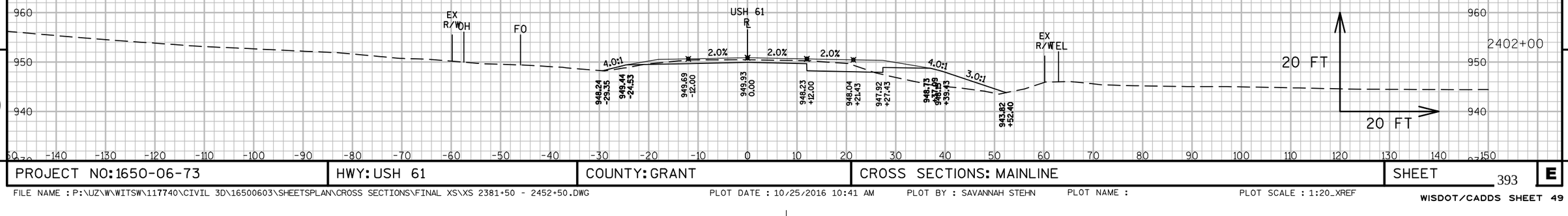
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 392	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:41 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF





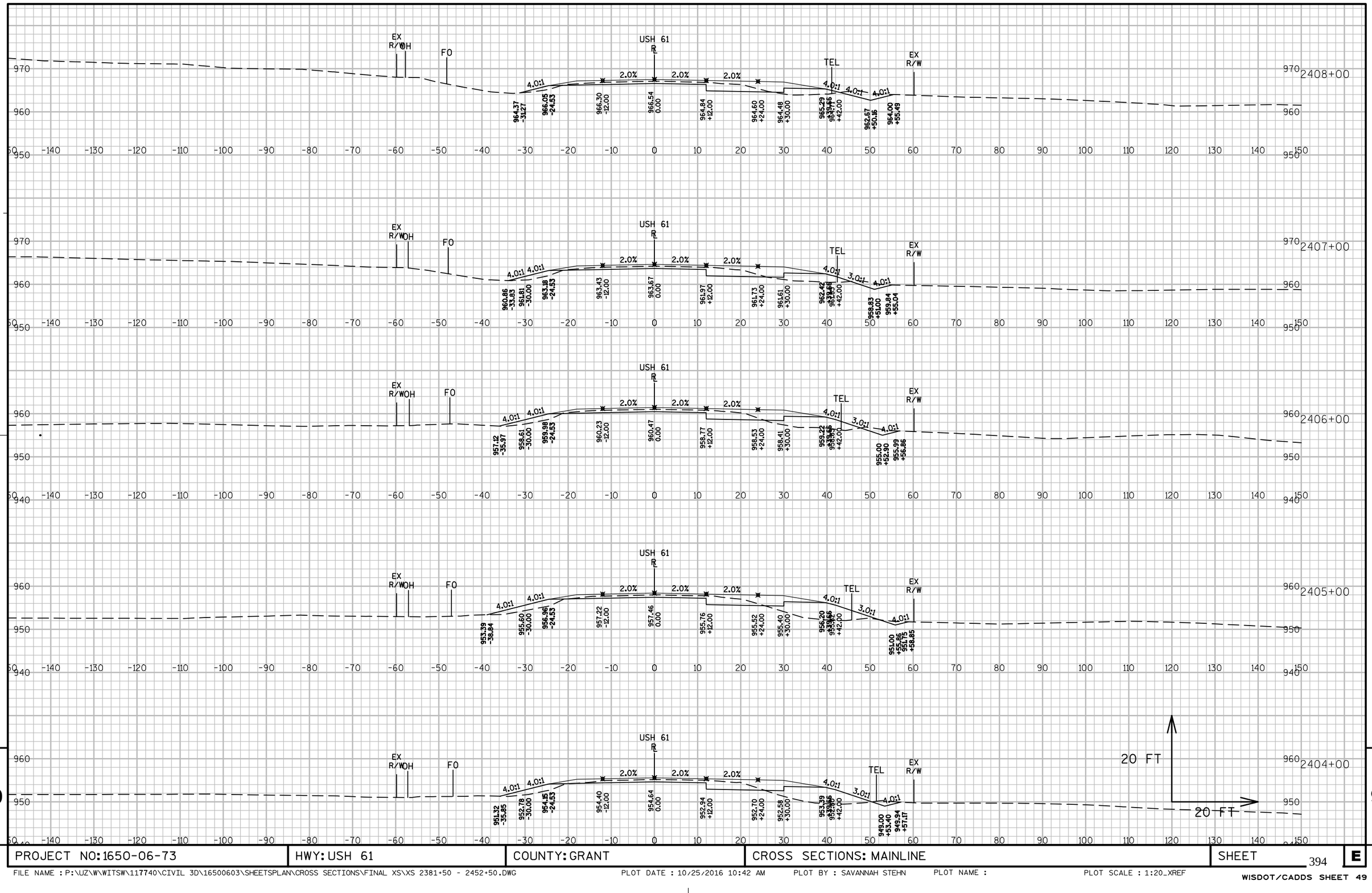




9

9

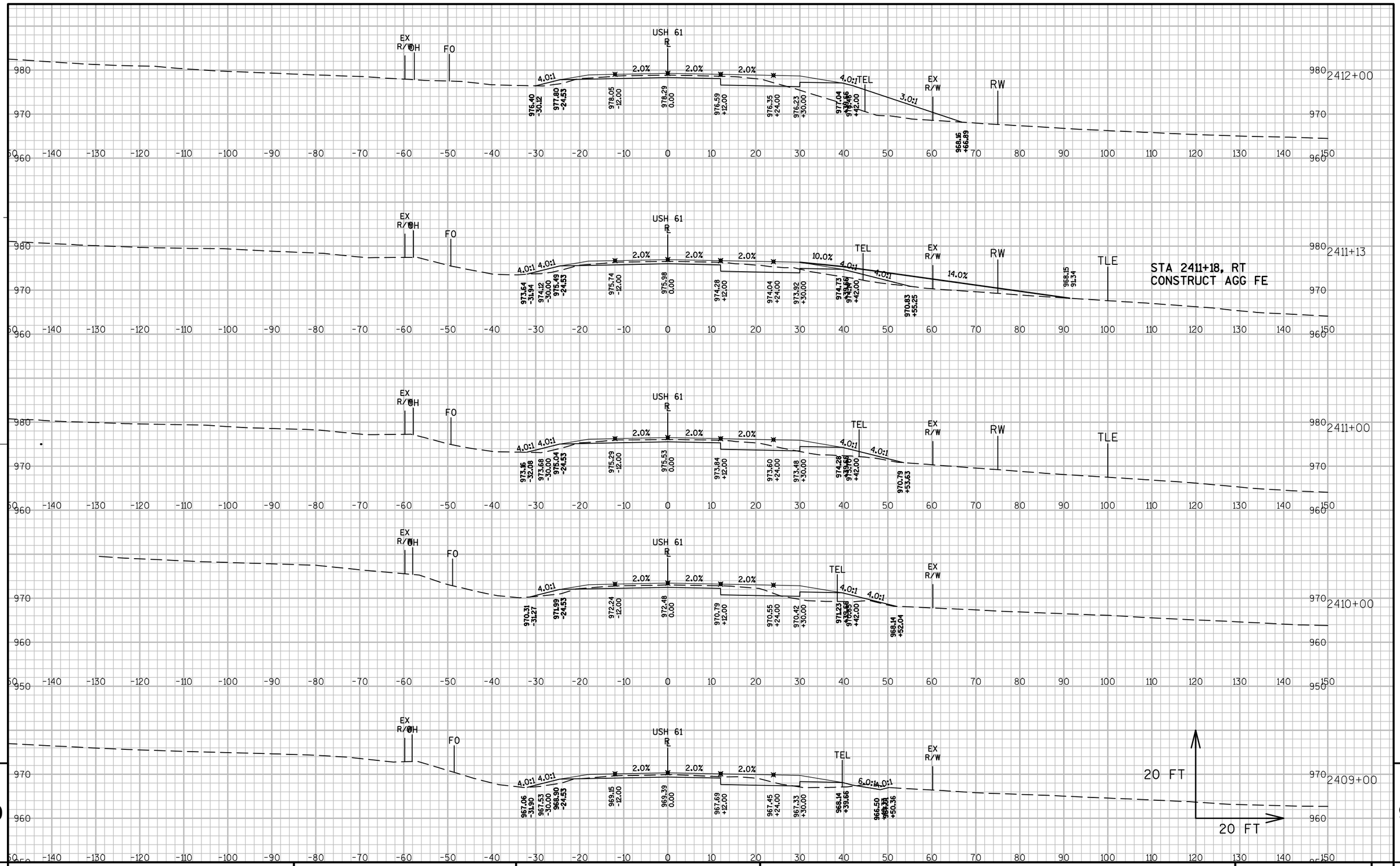
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 393	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 394	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:42 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



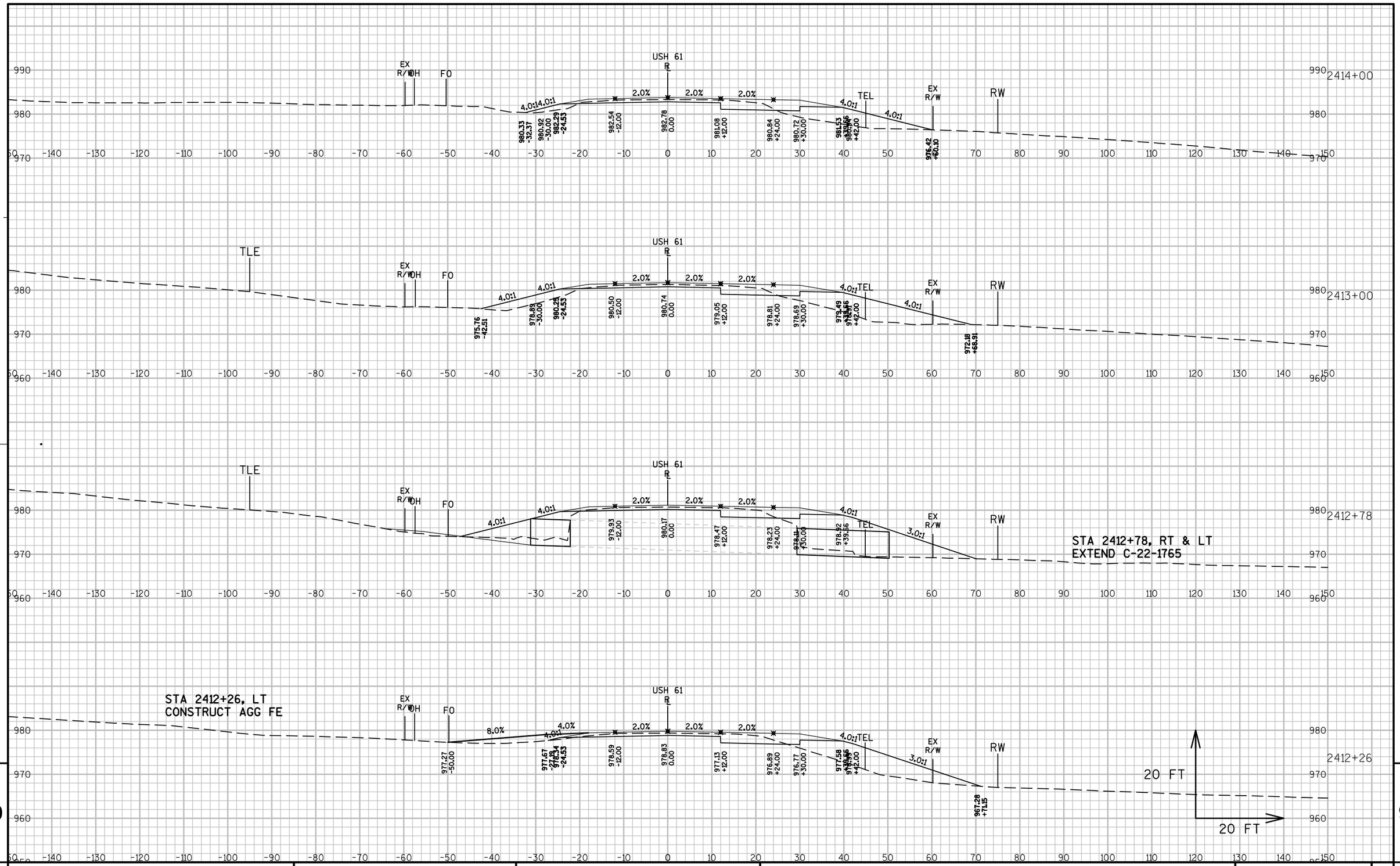
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 395	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:43 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



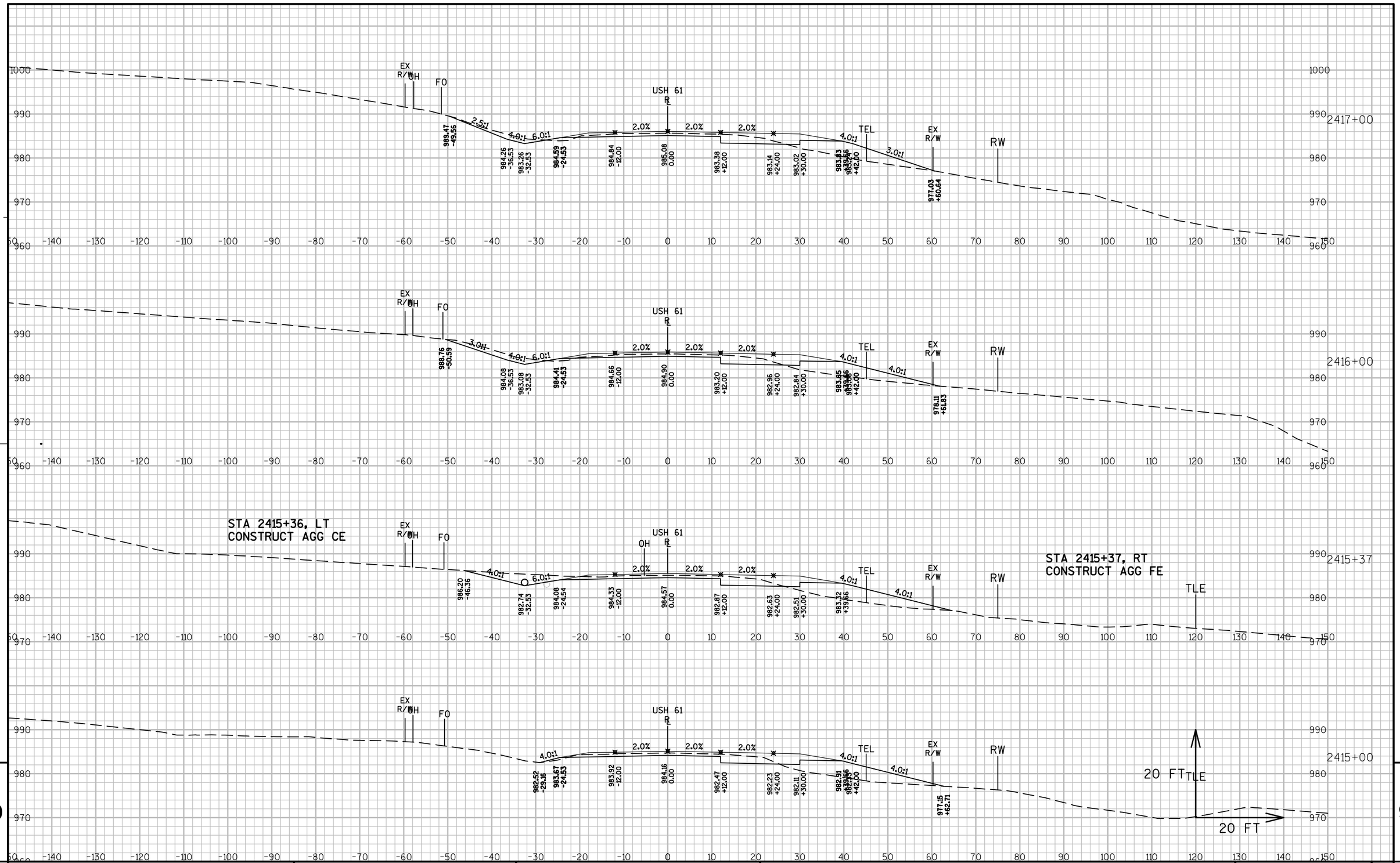
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 396	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:43 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

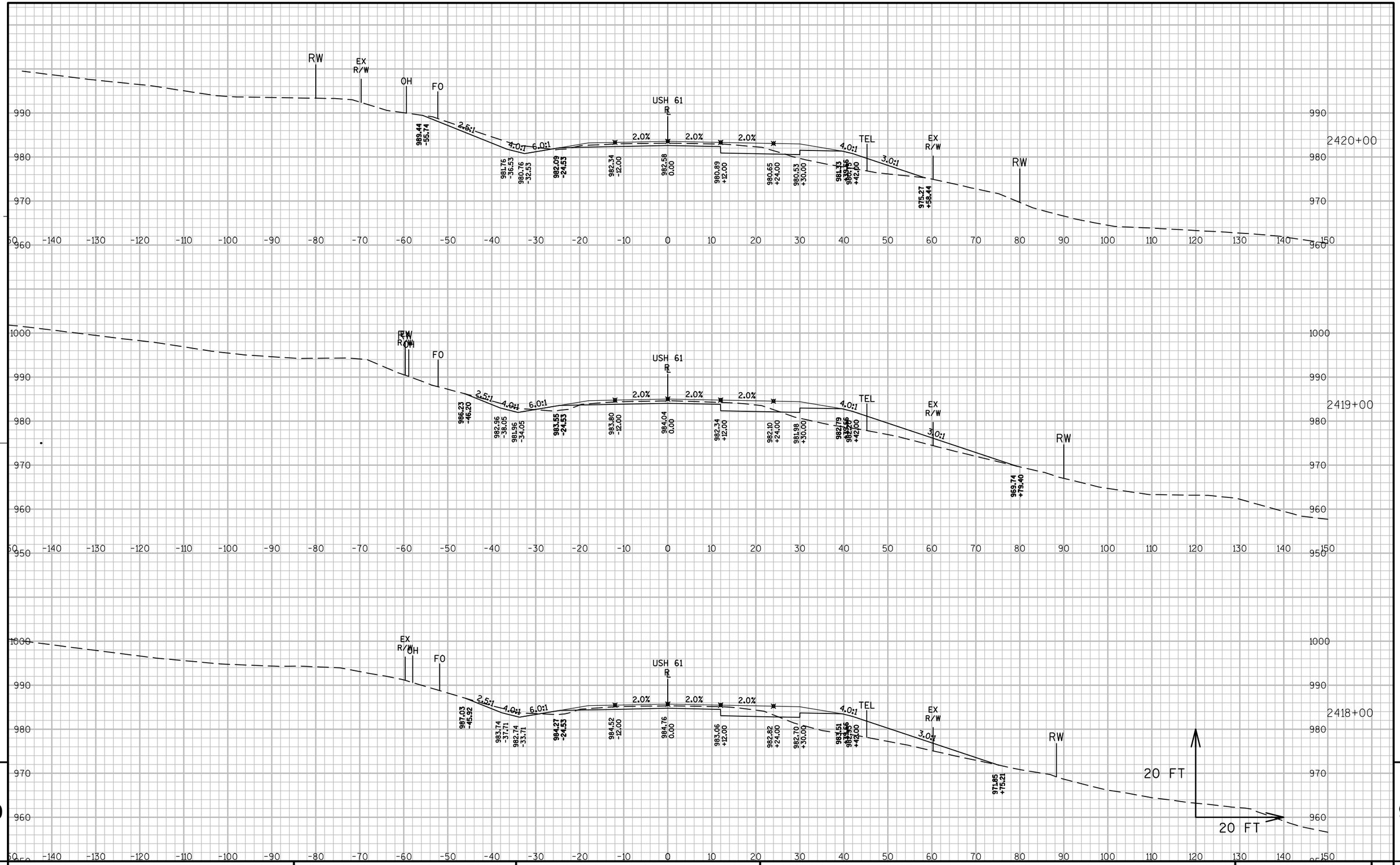
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 397	E



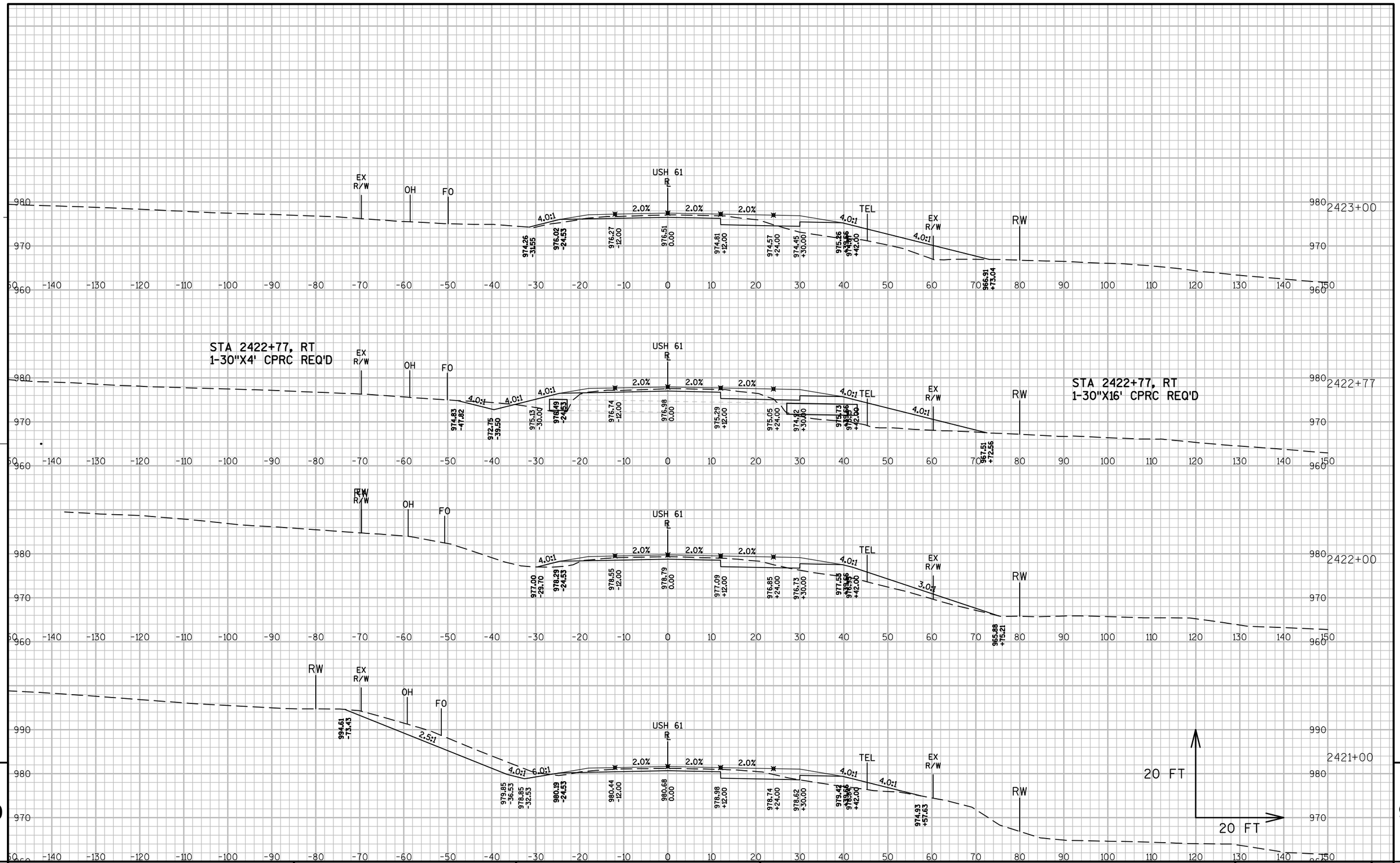
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 398	E

FILE NAME : P:\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:44 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

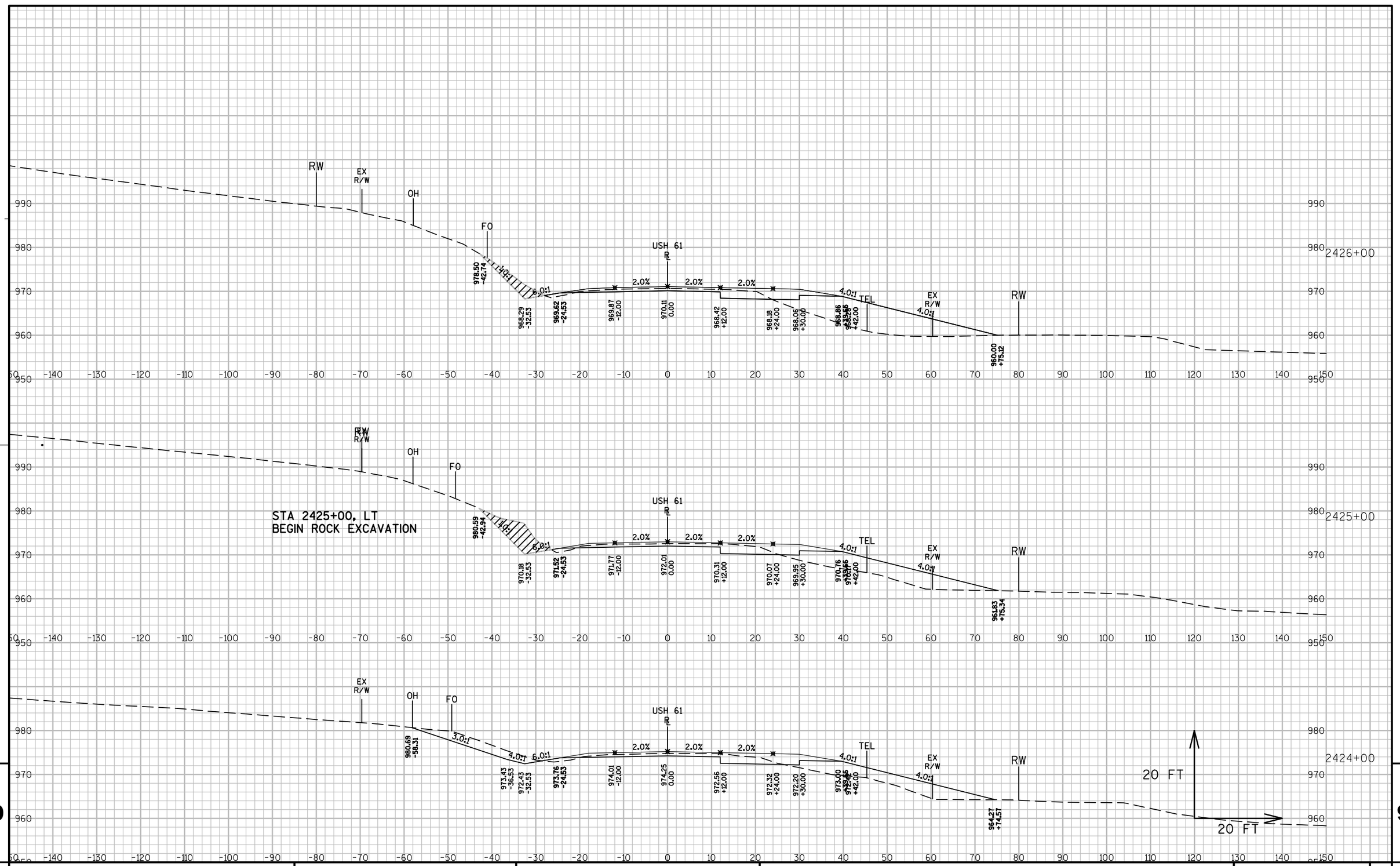
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 399	E

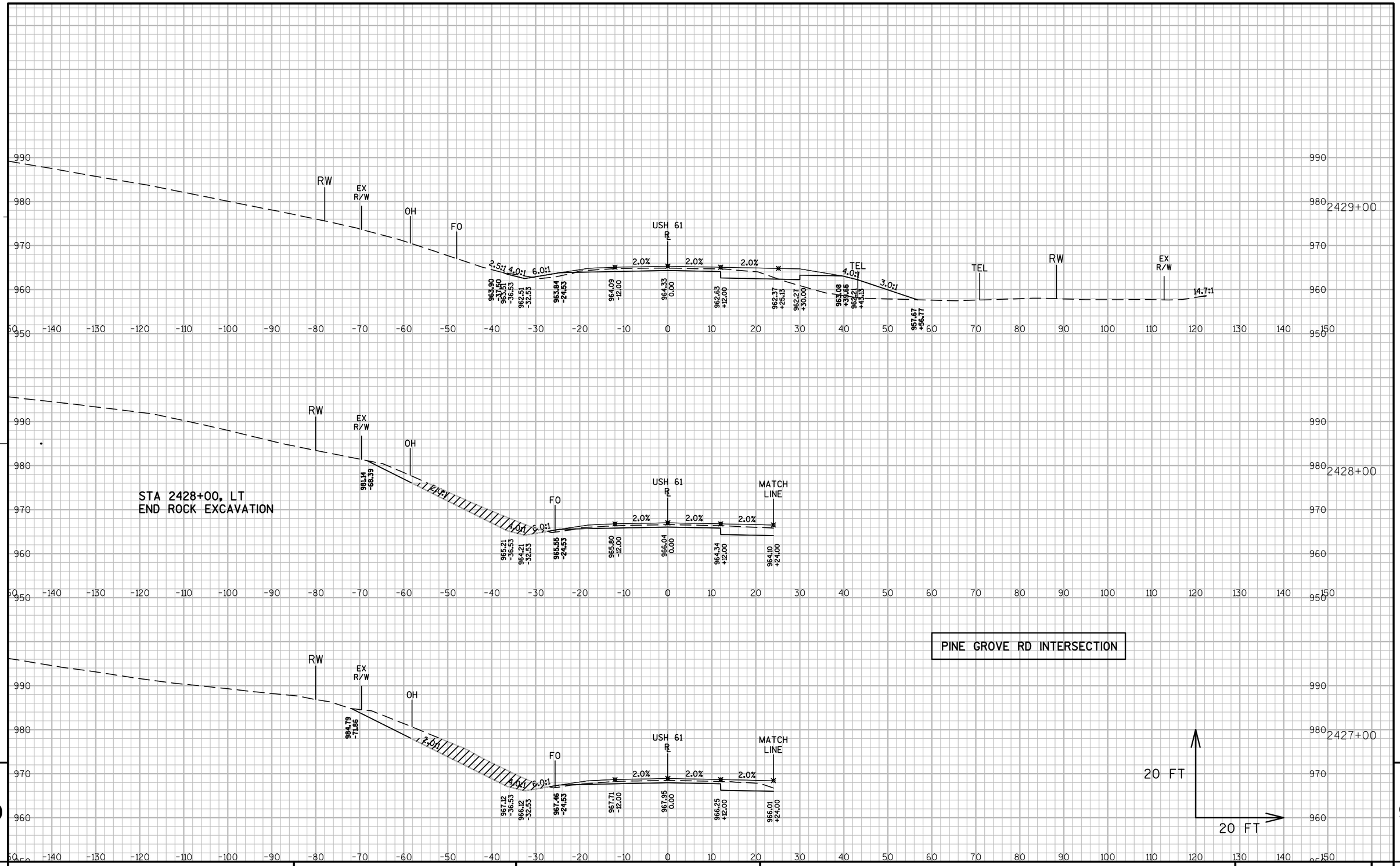
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:45 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



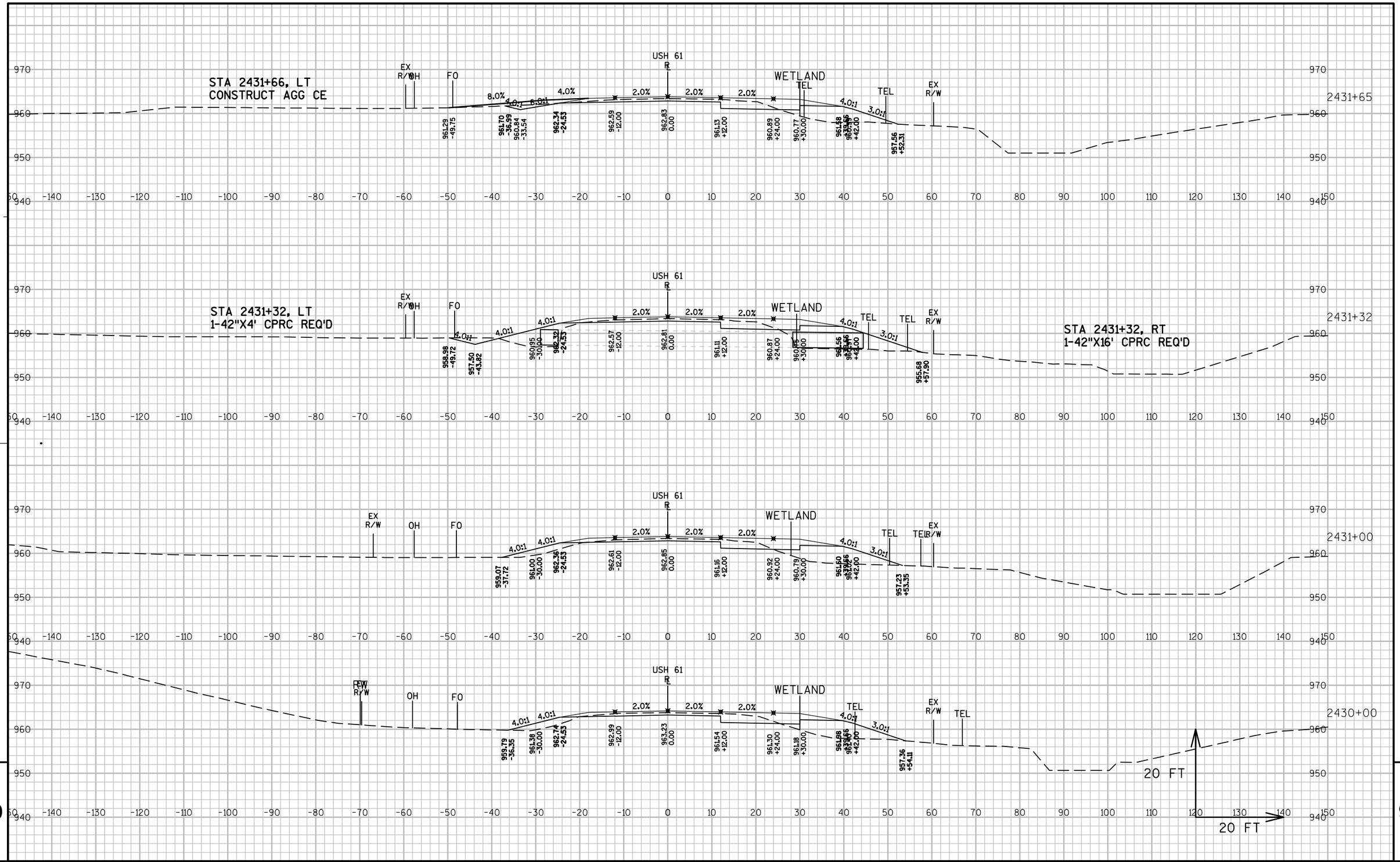
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 400	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:45 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

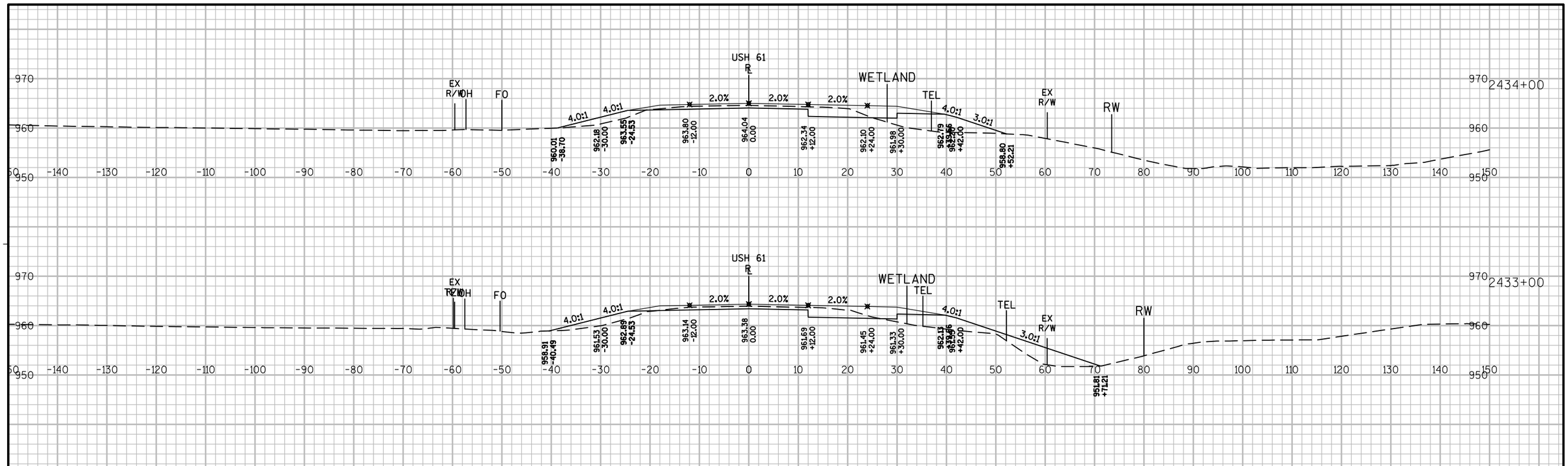
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 401	E

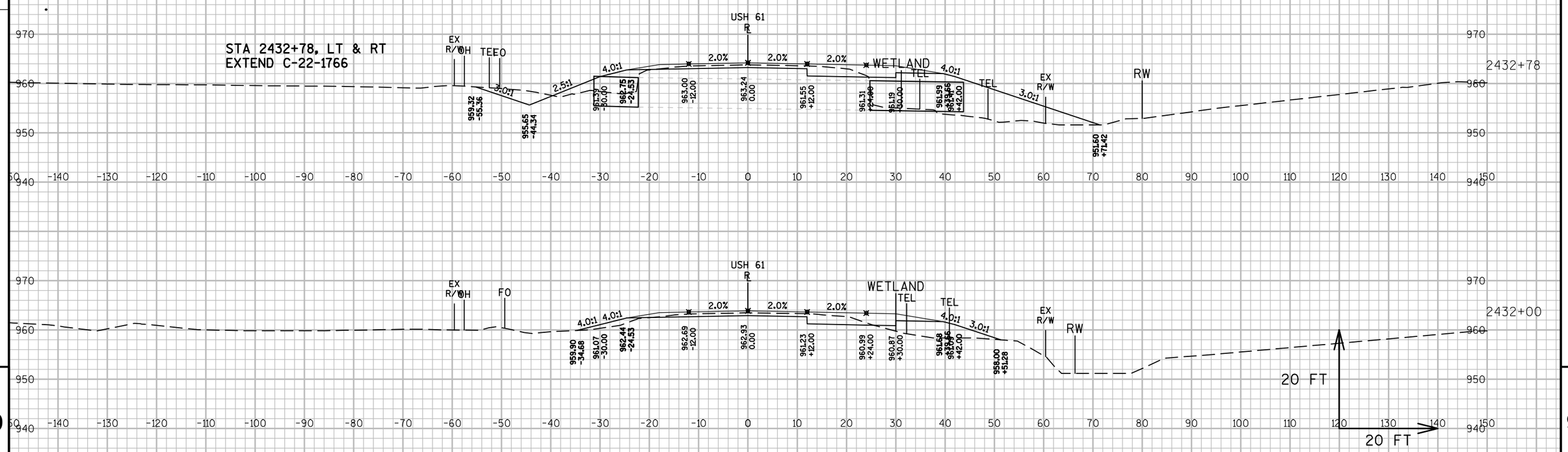


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 402	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:46 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



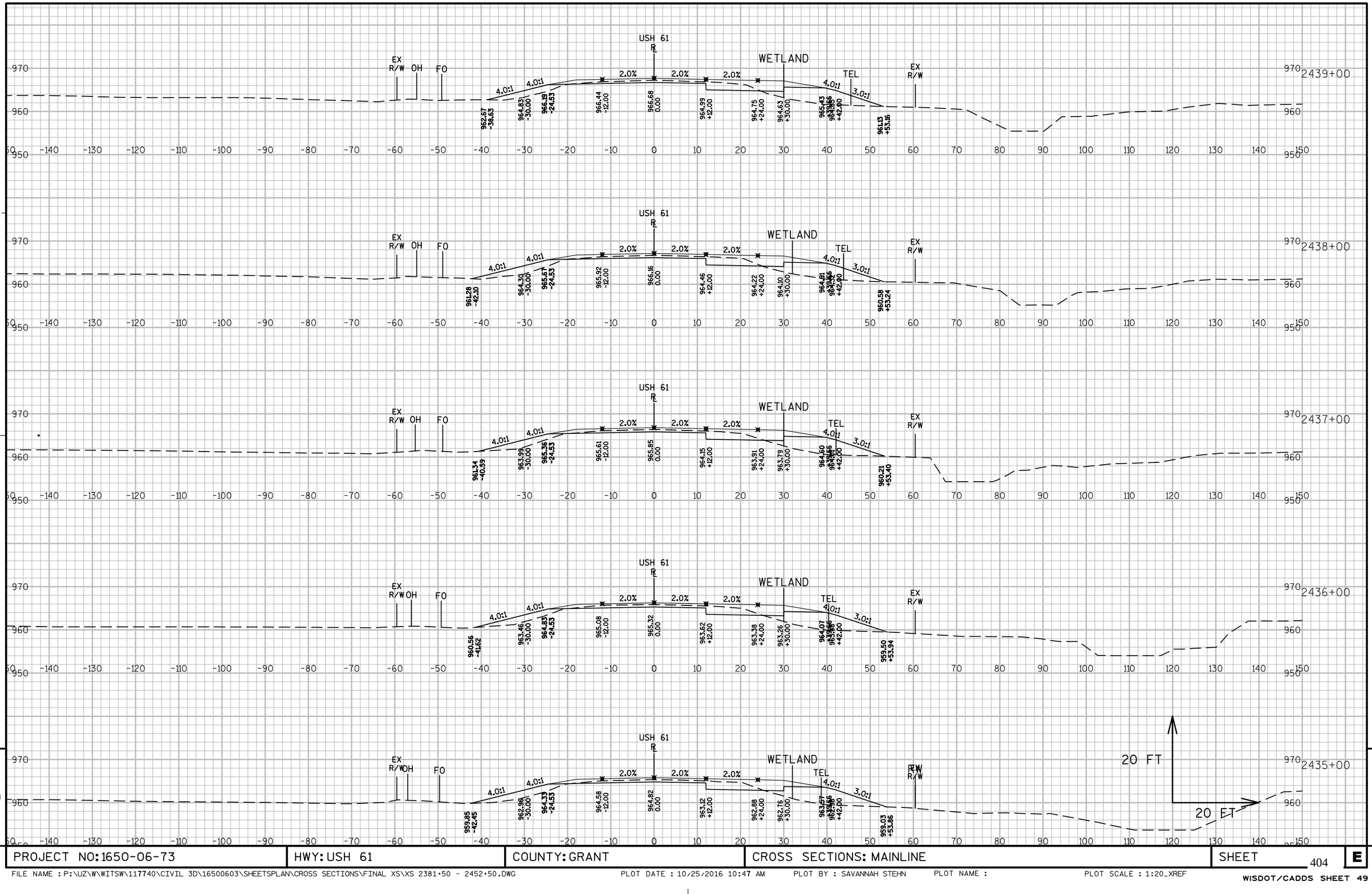


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 403	E

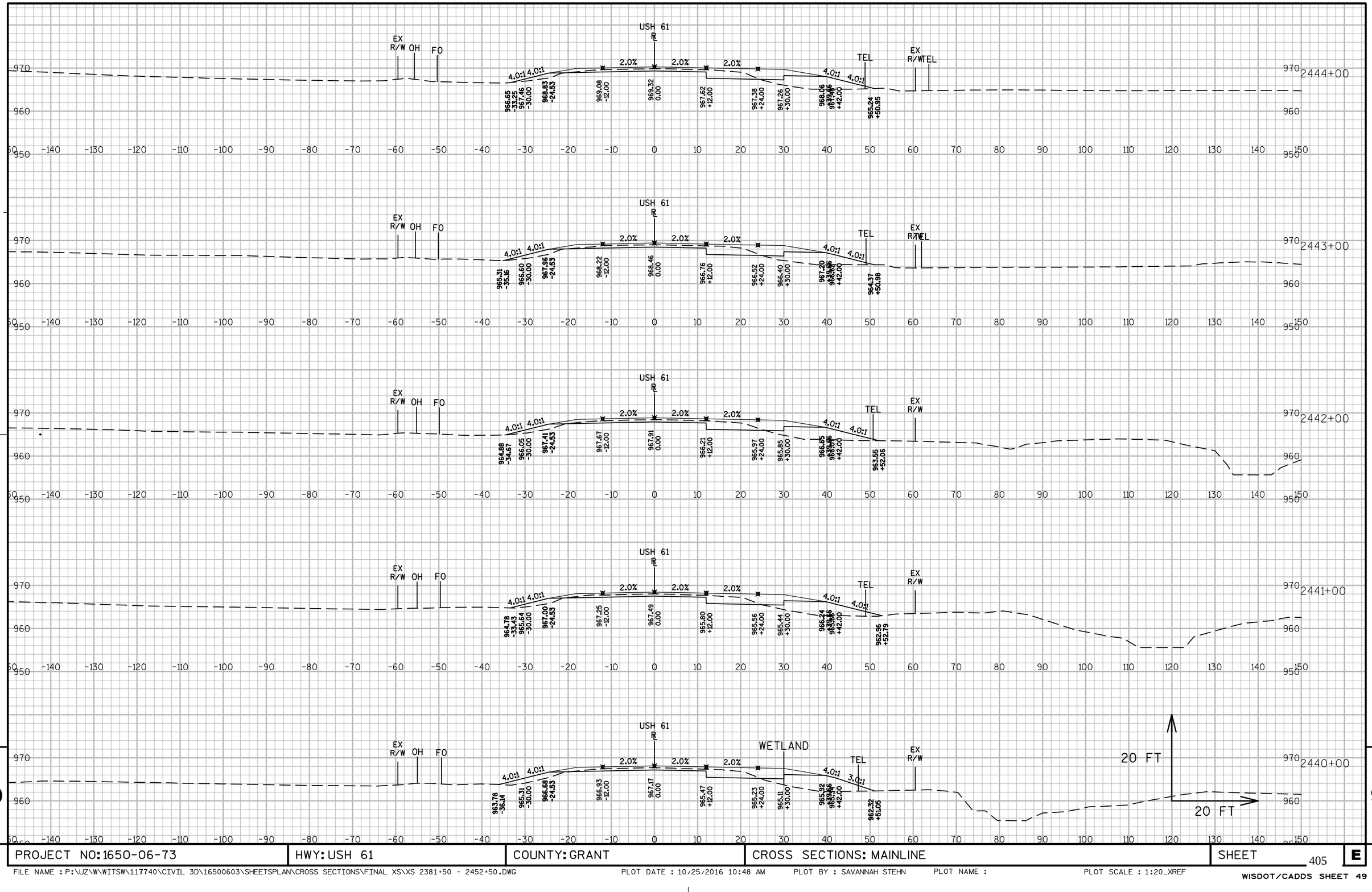
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:47 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 404	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:47 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

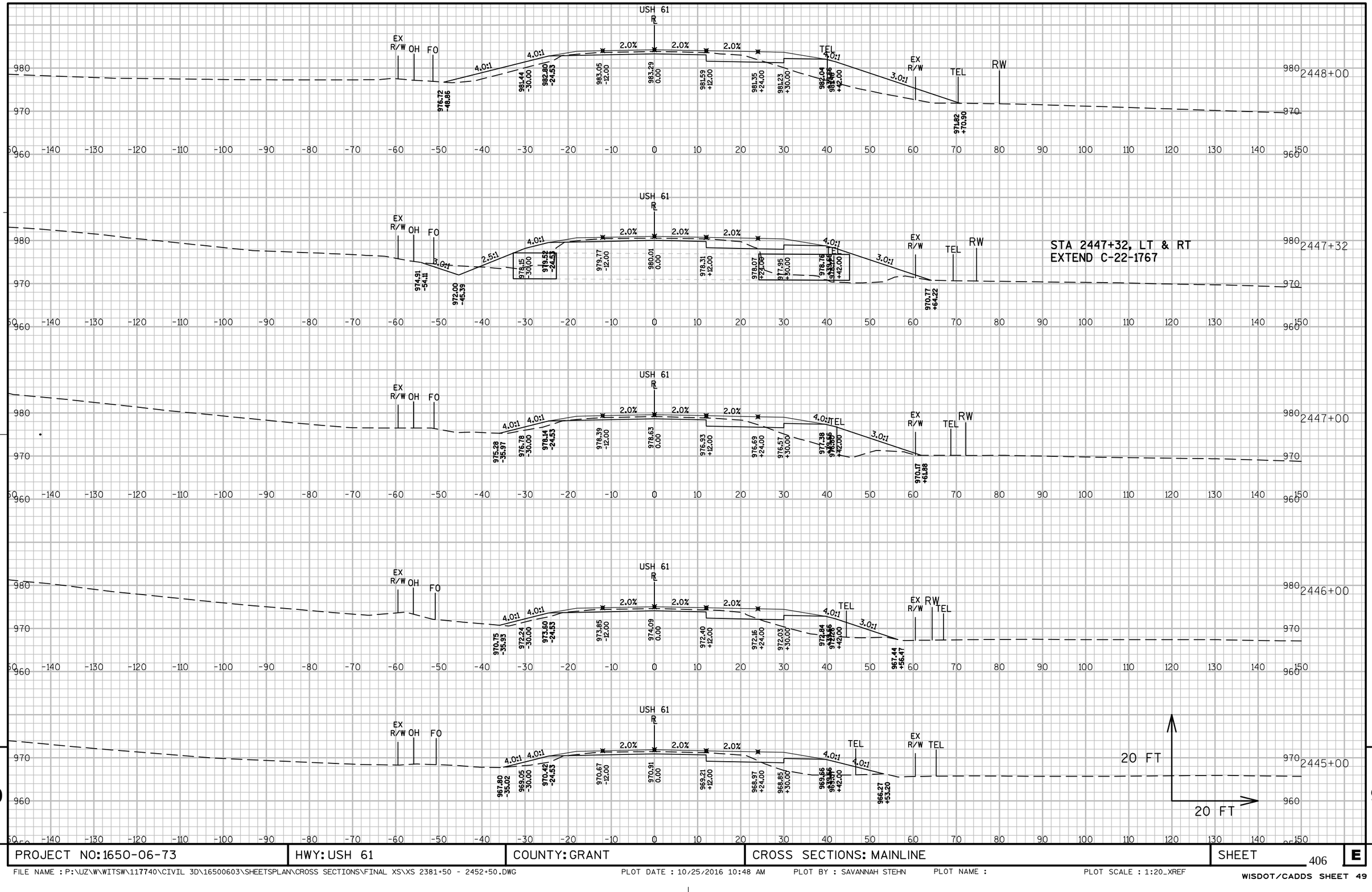


9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 405	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:48 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

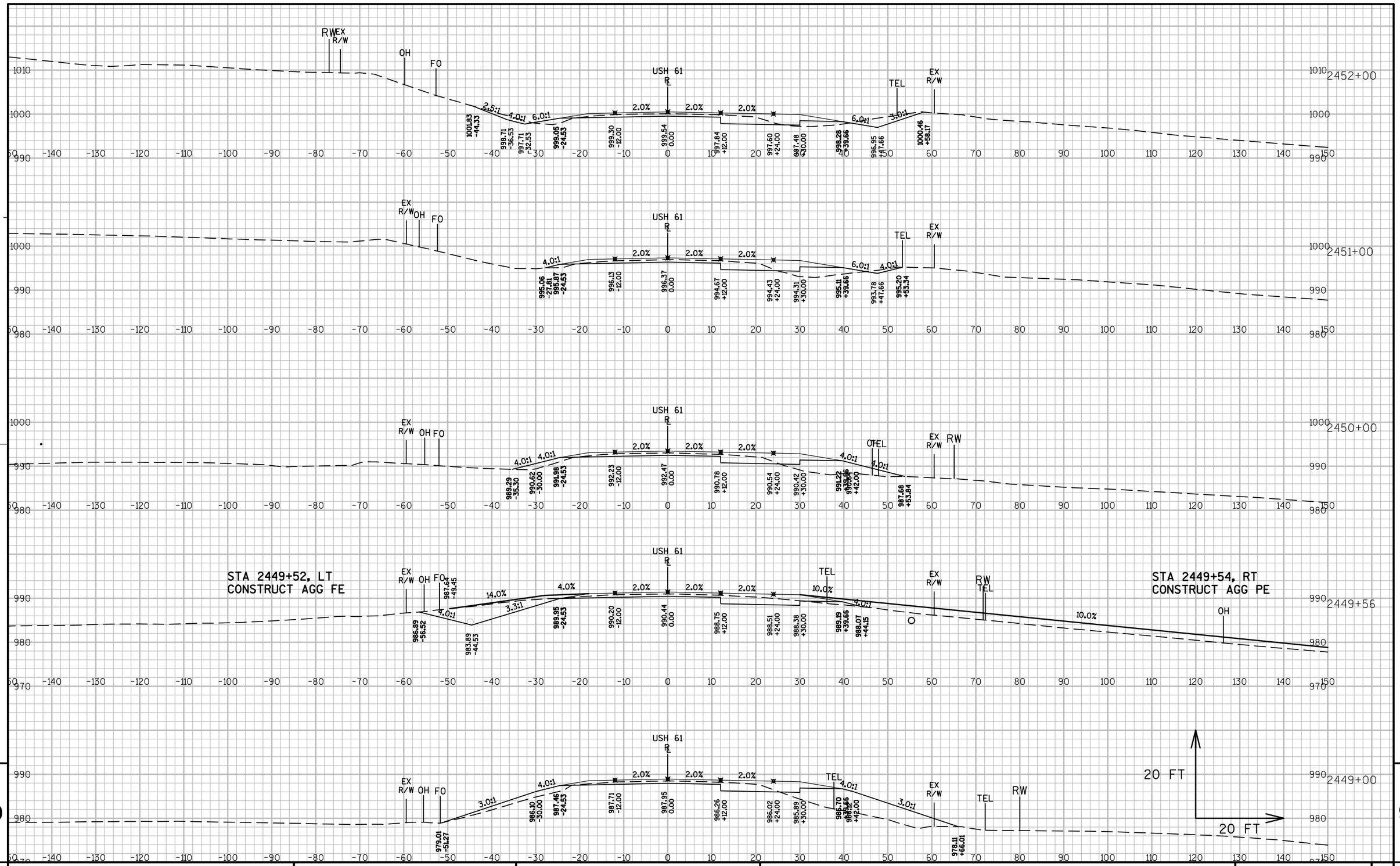


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 406	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:48 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



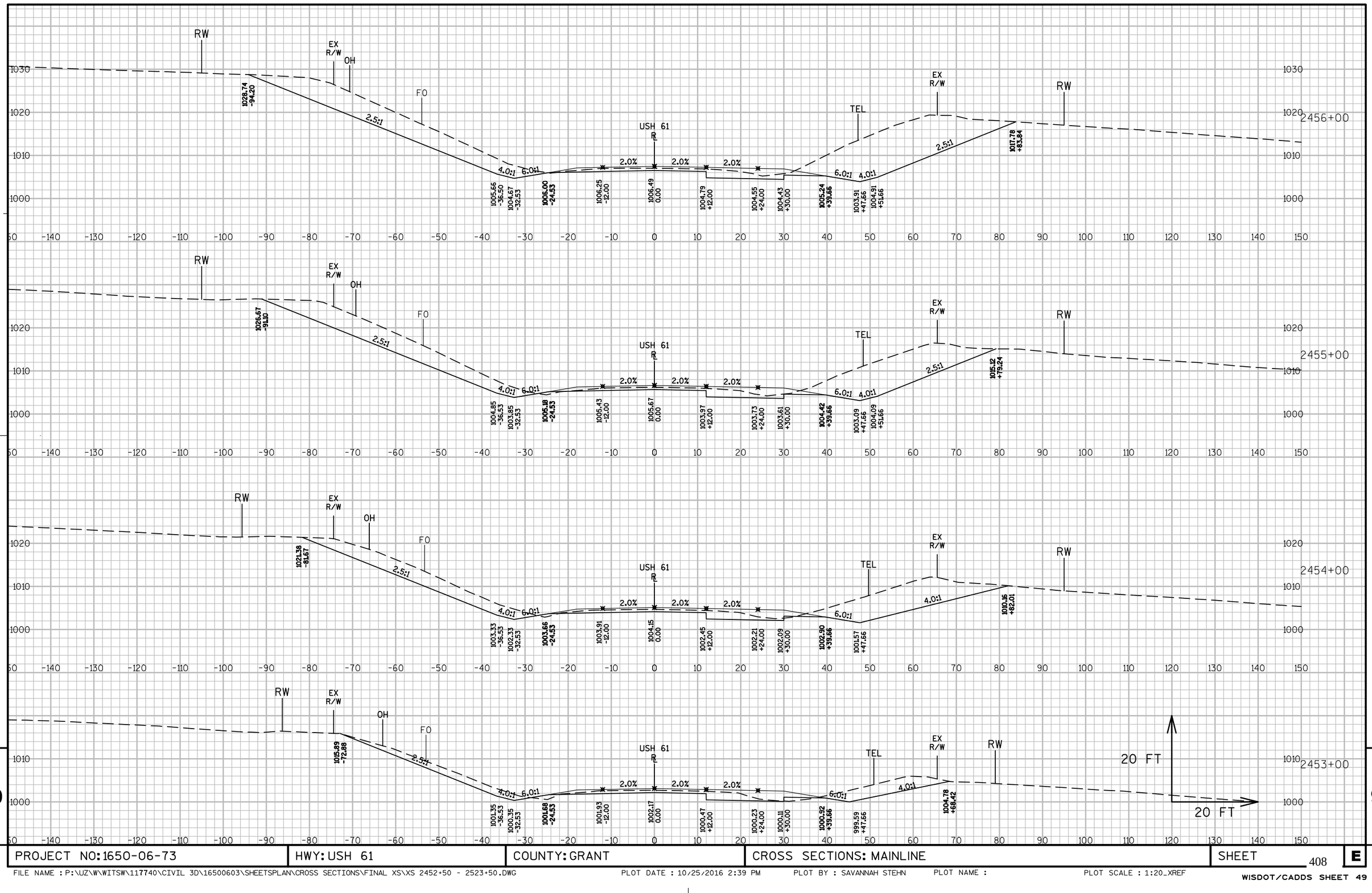
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 407	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2381+50 - 2452+50.DWG PLOT DATE : 10/25/2016 10:49 AM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

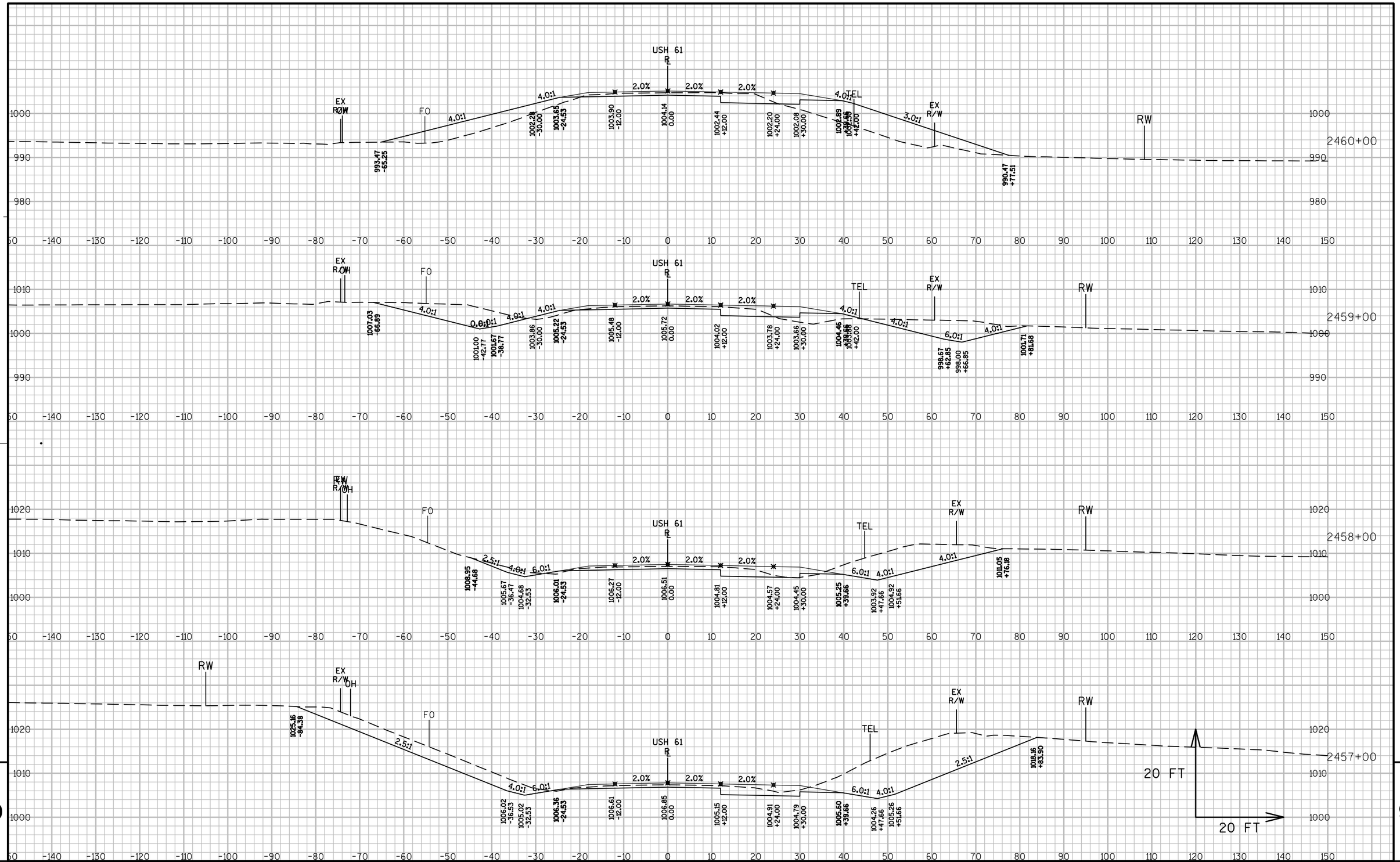
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 408	E

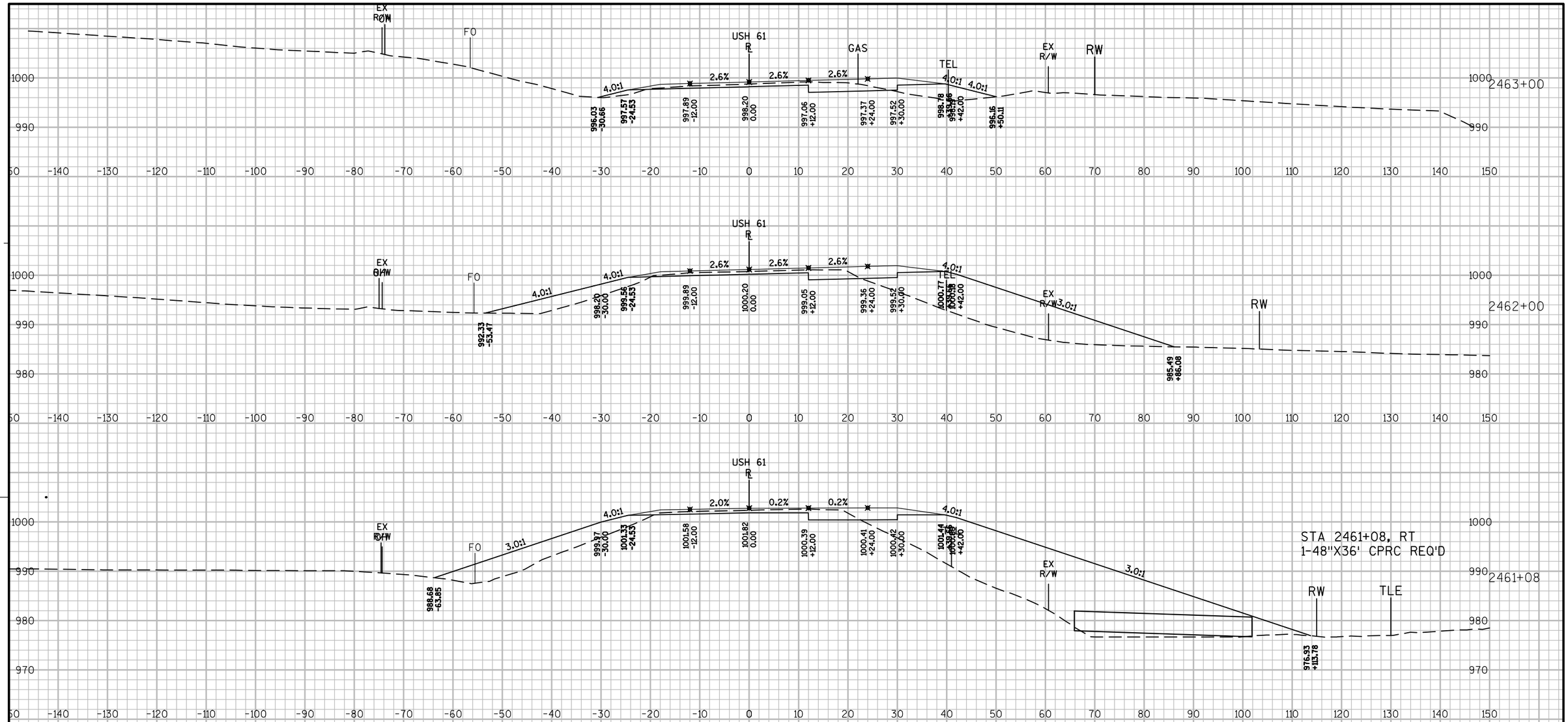
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:39 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 409 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:40 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

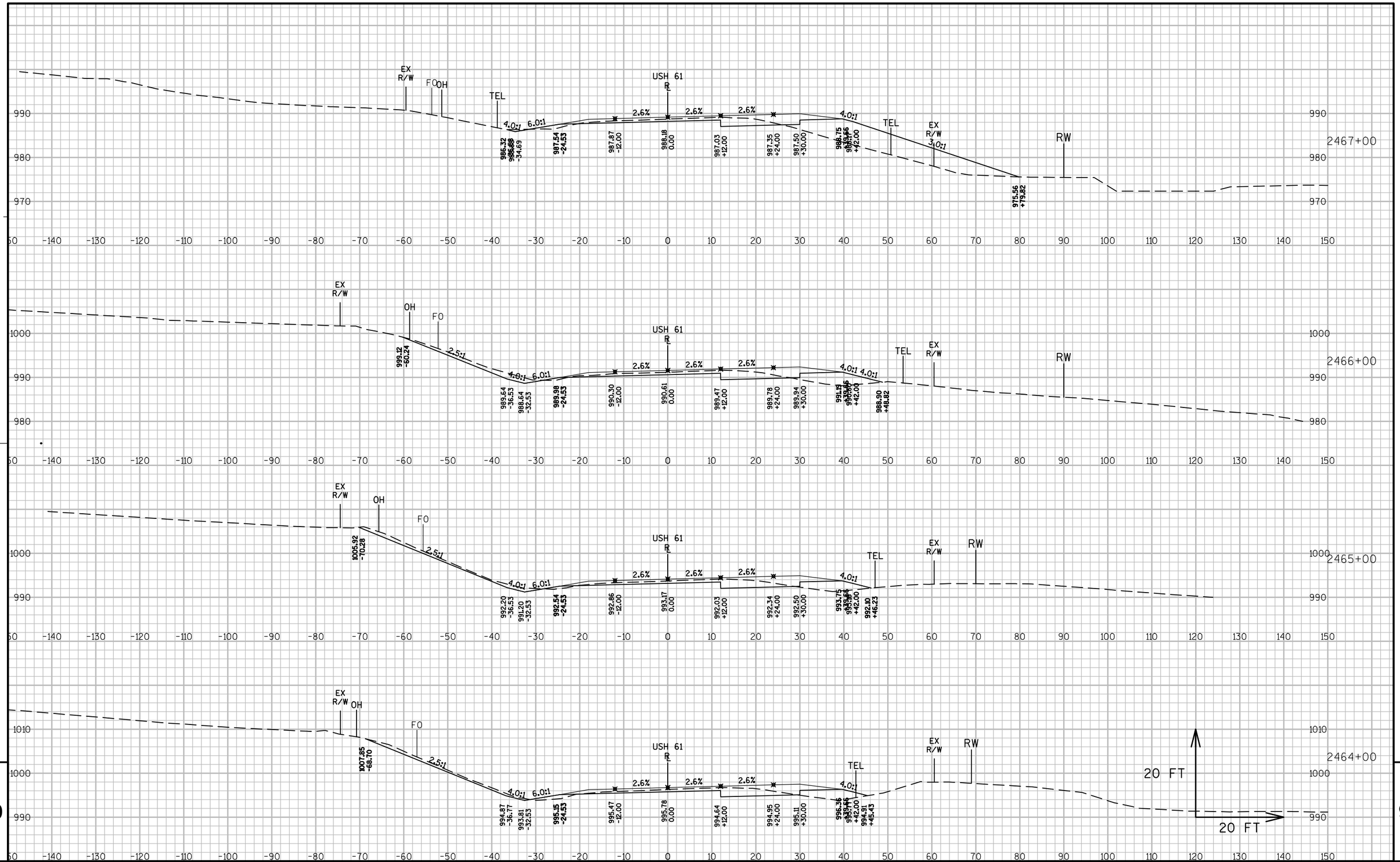


9

9

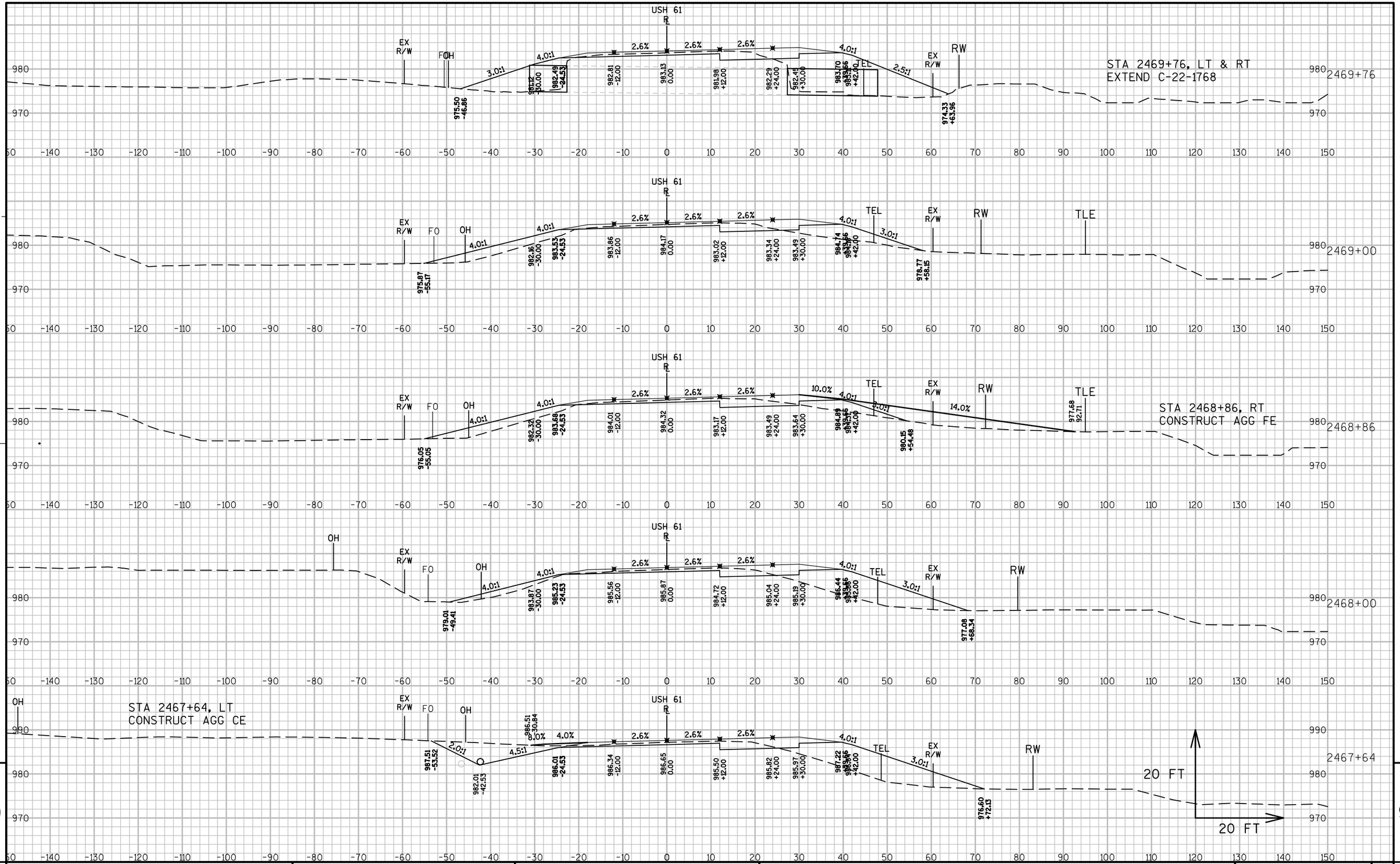
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 410	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:40 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 411 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:41 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



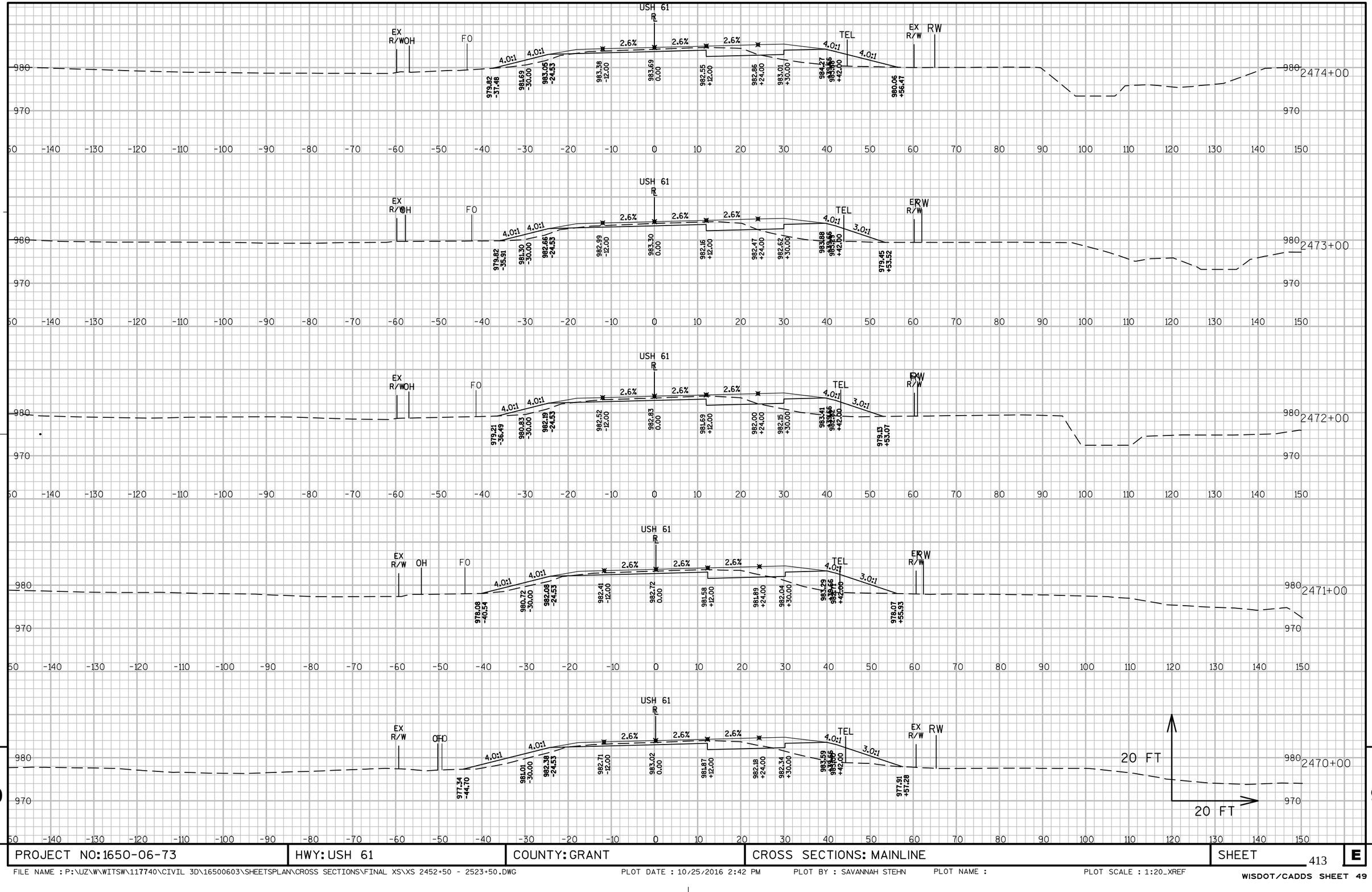
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 412	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:41 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

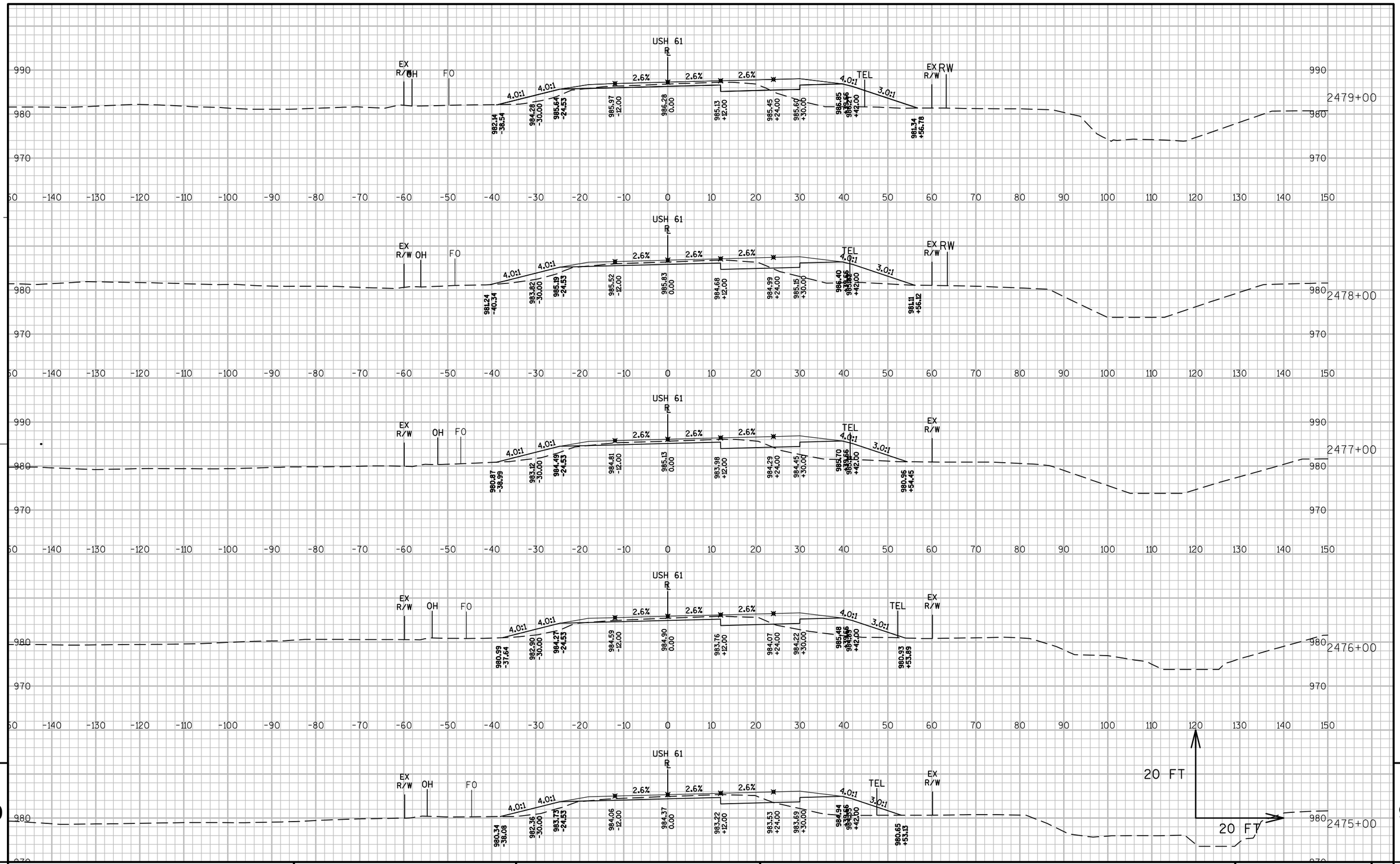


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 413	E

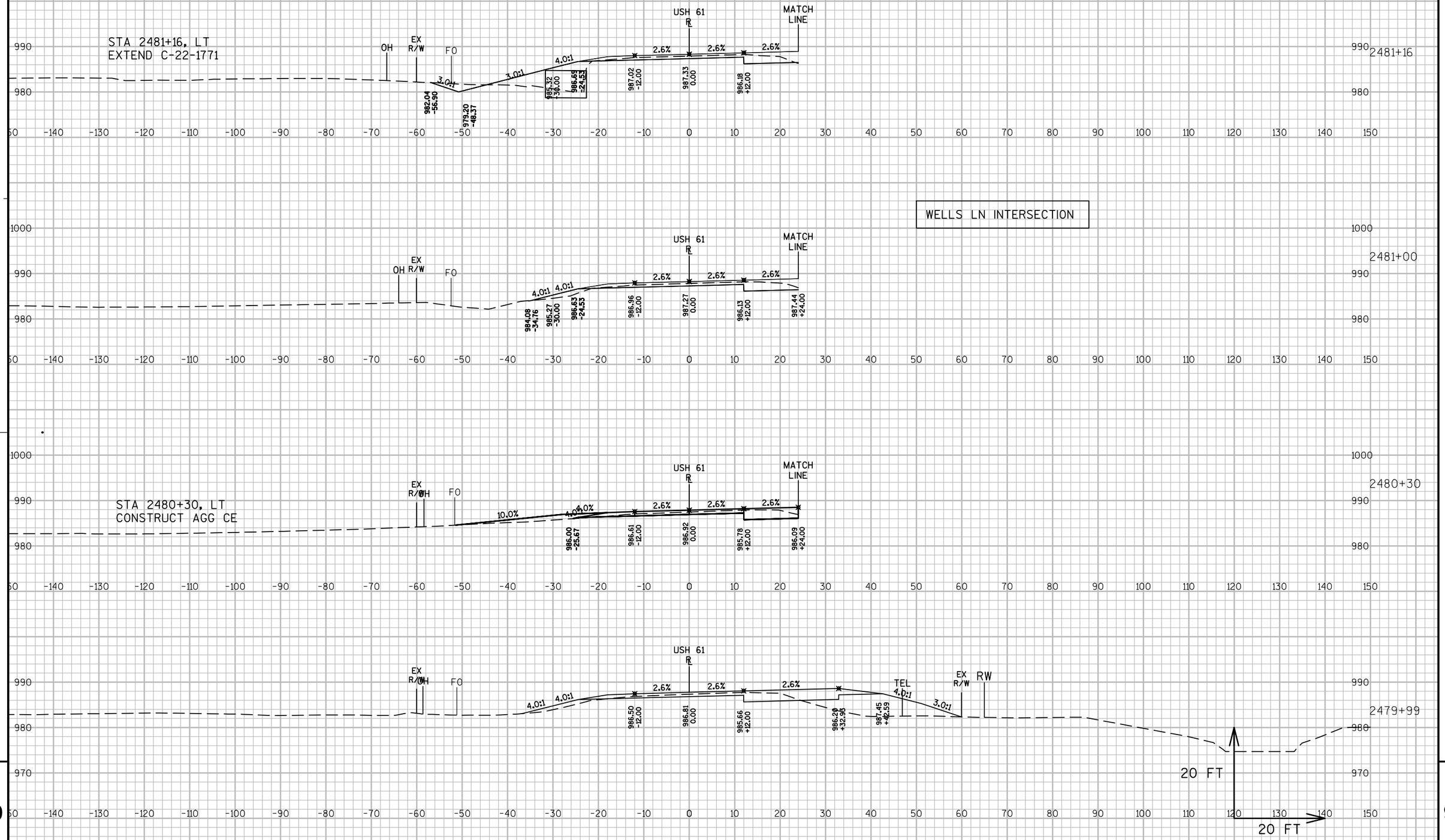
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:42 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 414	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:43 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

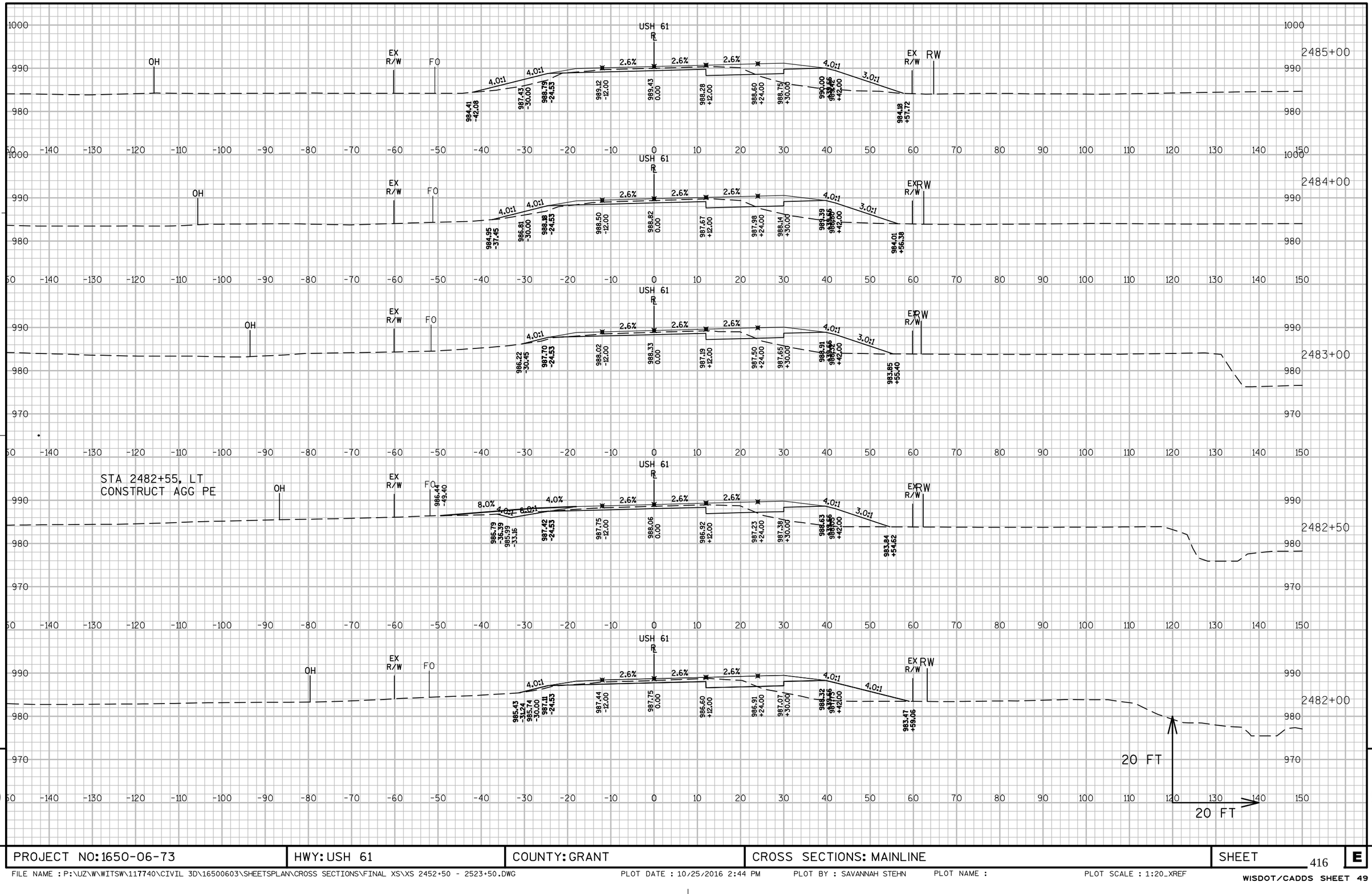


9

9

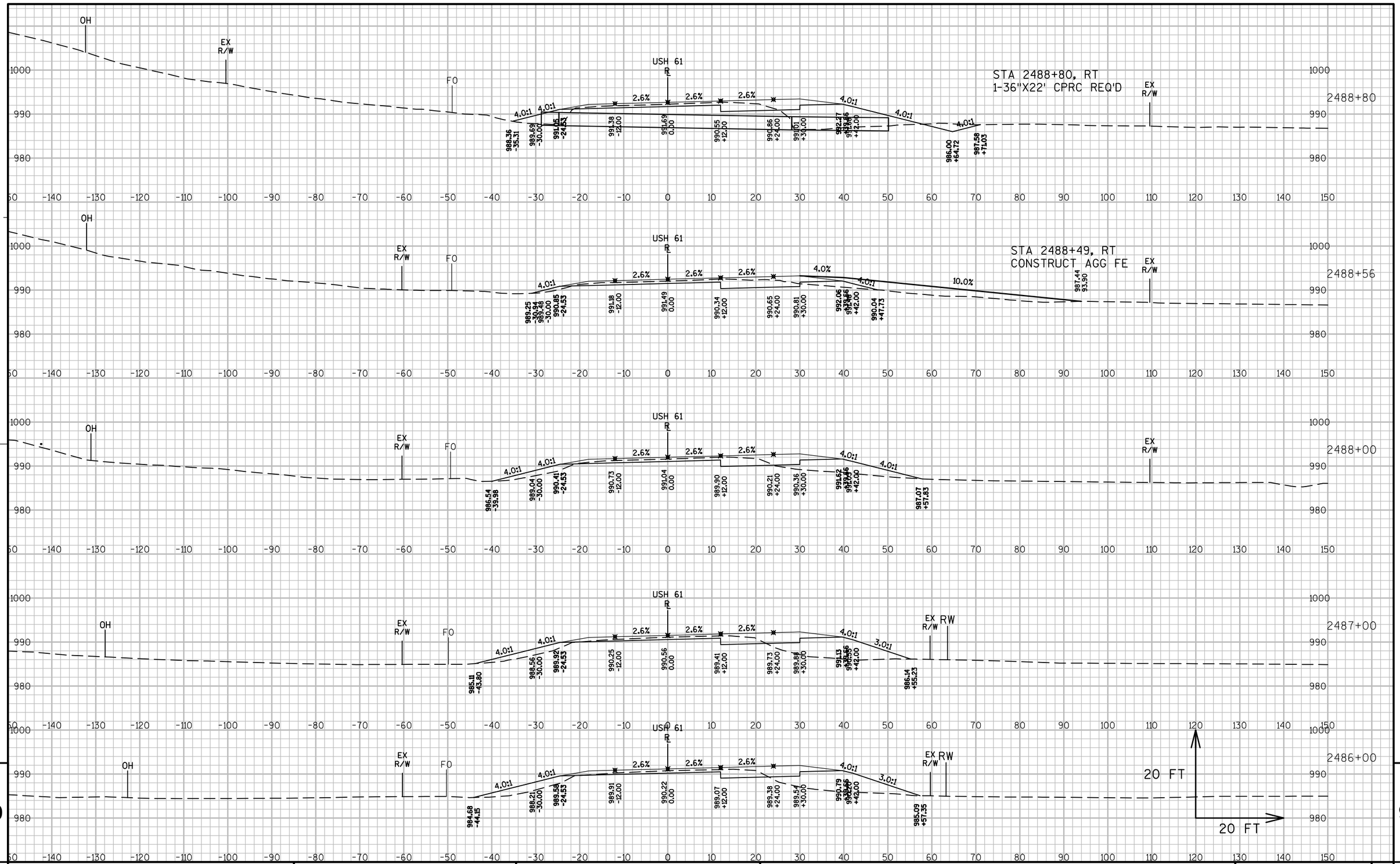
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 415	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:43 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 416	E

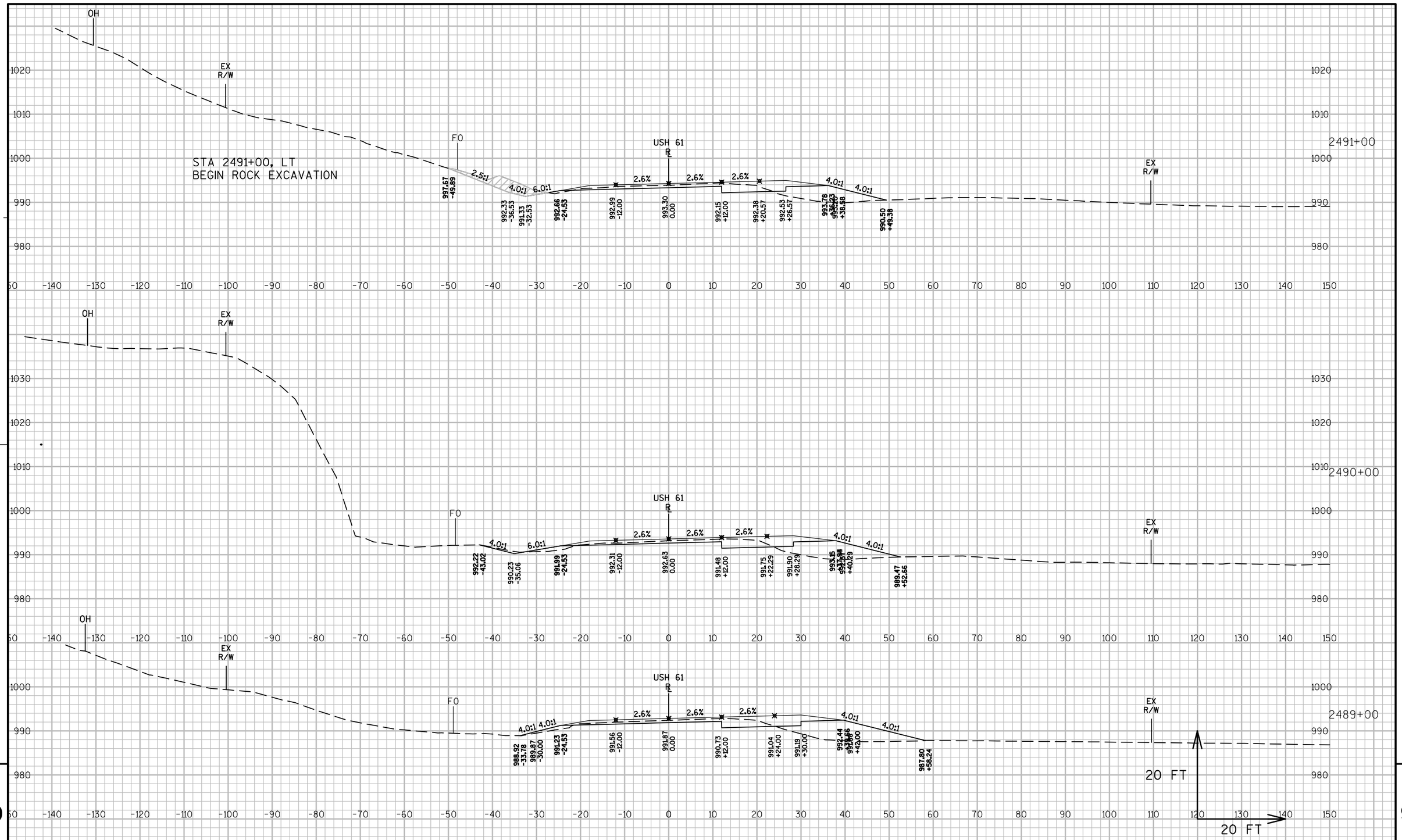
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:44 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 417	E

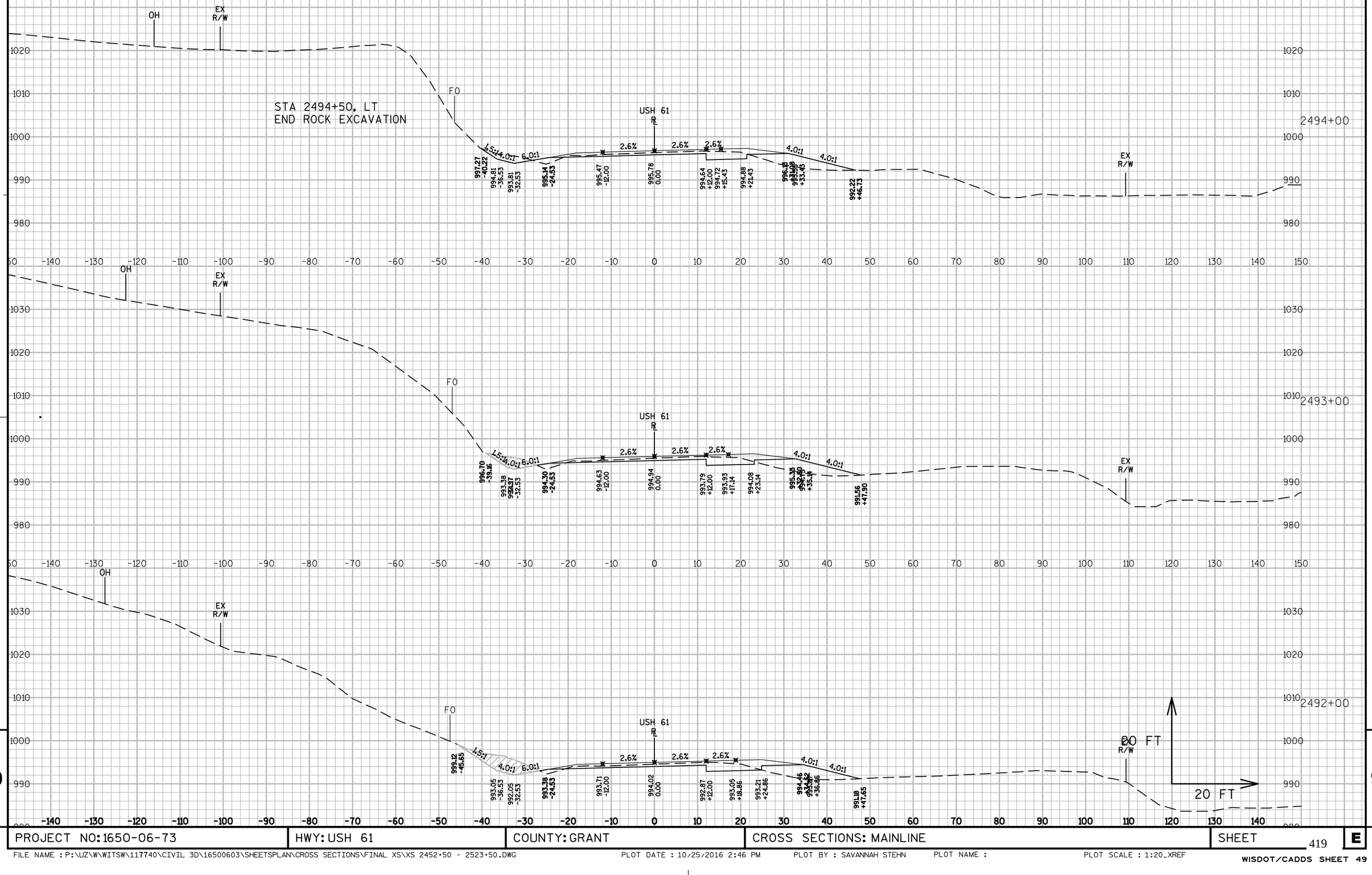


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 418	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:45 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

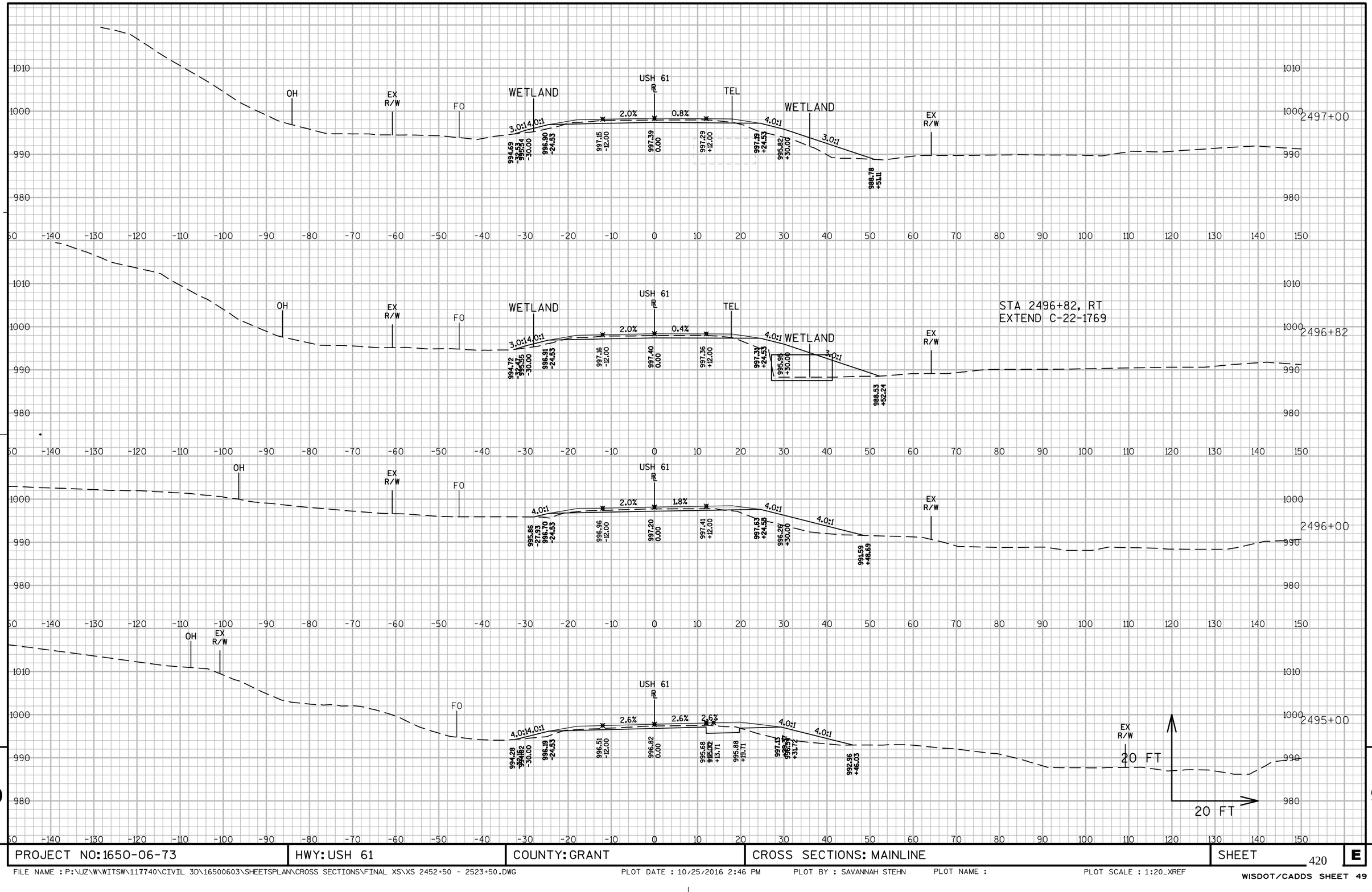
STA 2494+50, LT
END ROCK EXCAVATION



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 419 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:46 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

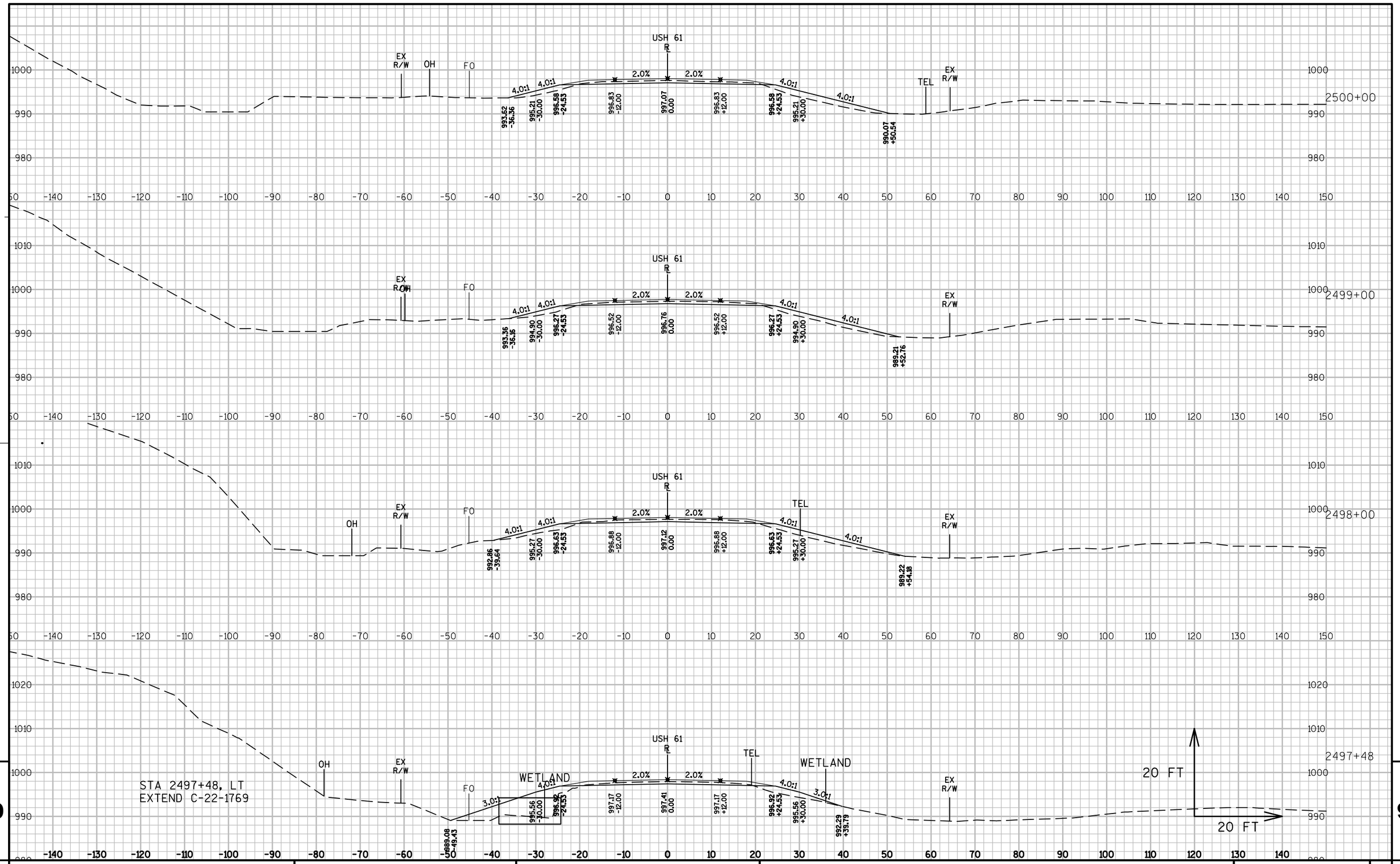
WISDOT/CADDS SHEET 49



9

9

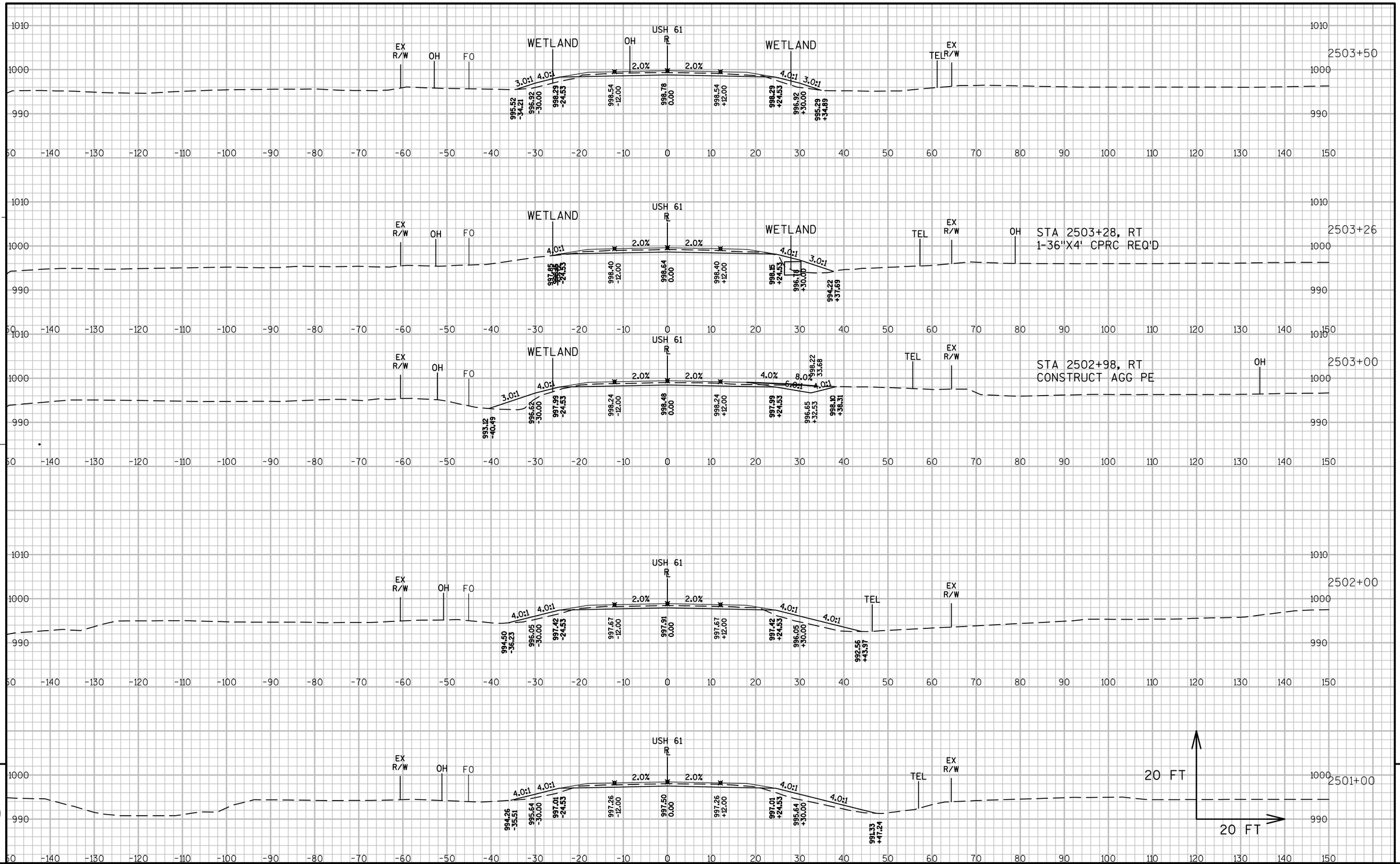
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 420	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 421	E

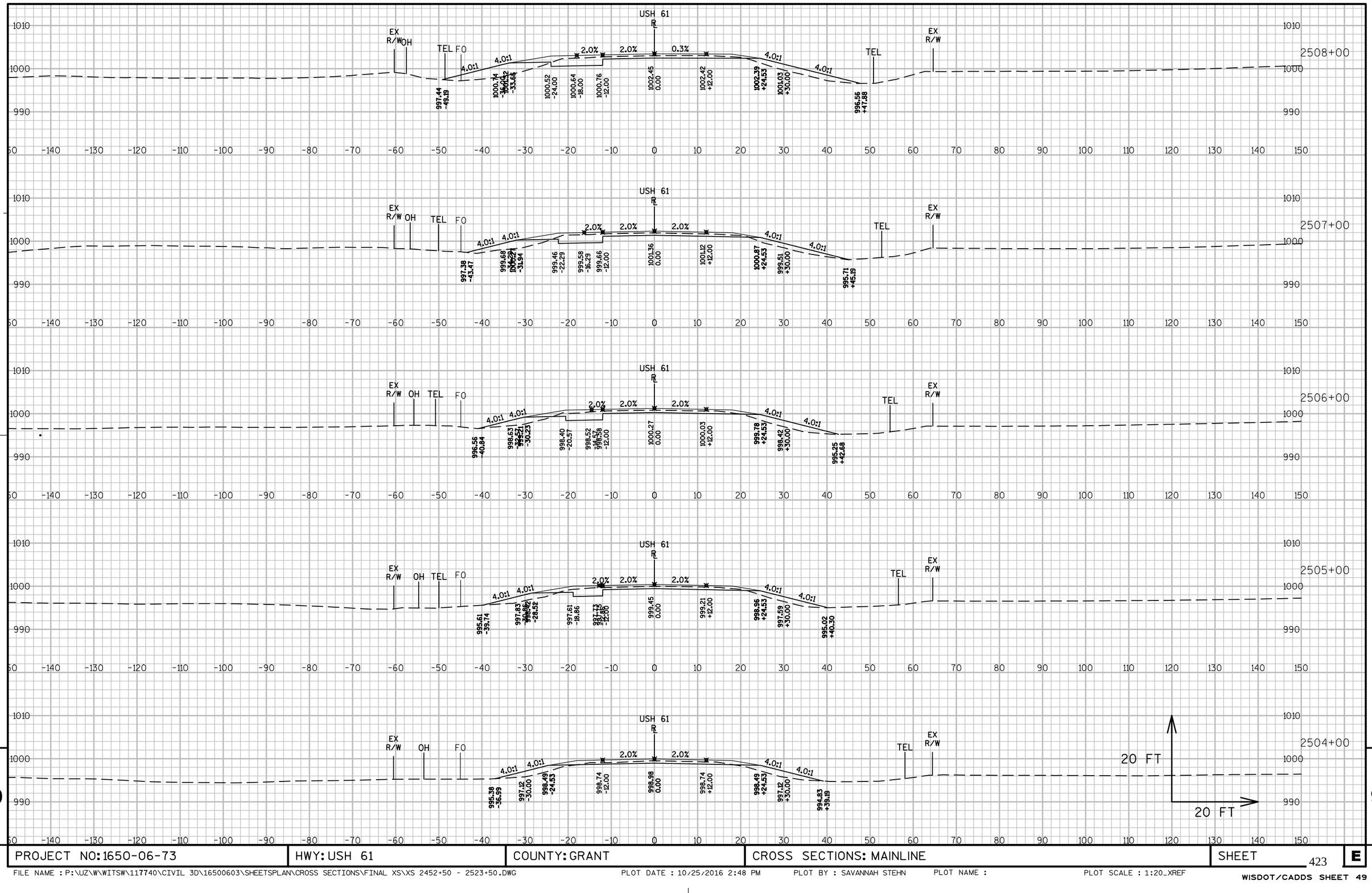
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:47 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 422	E



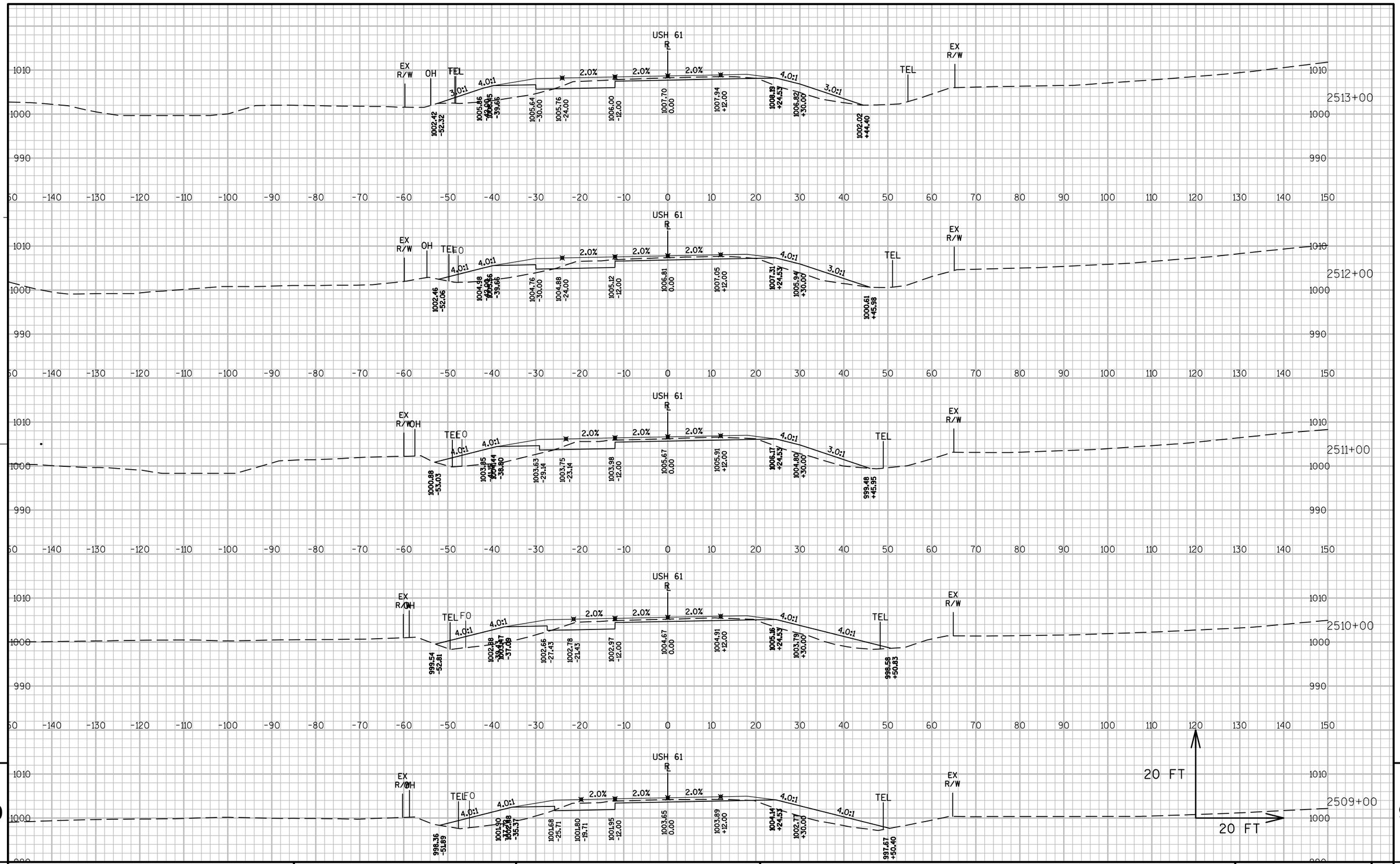
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 423	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:48 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

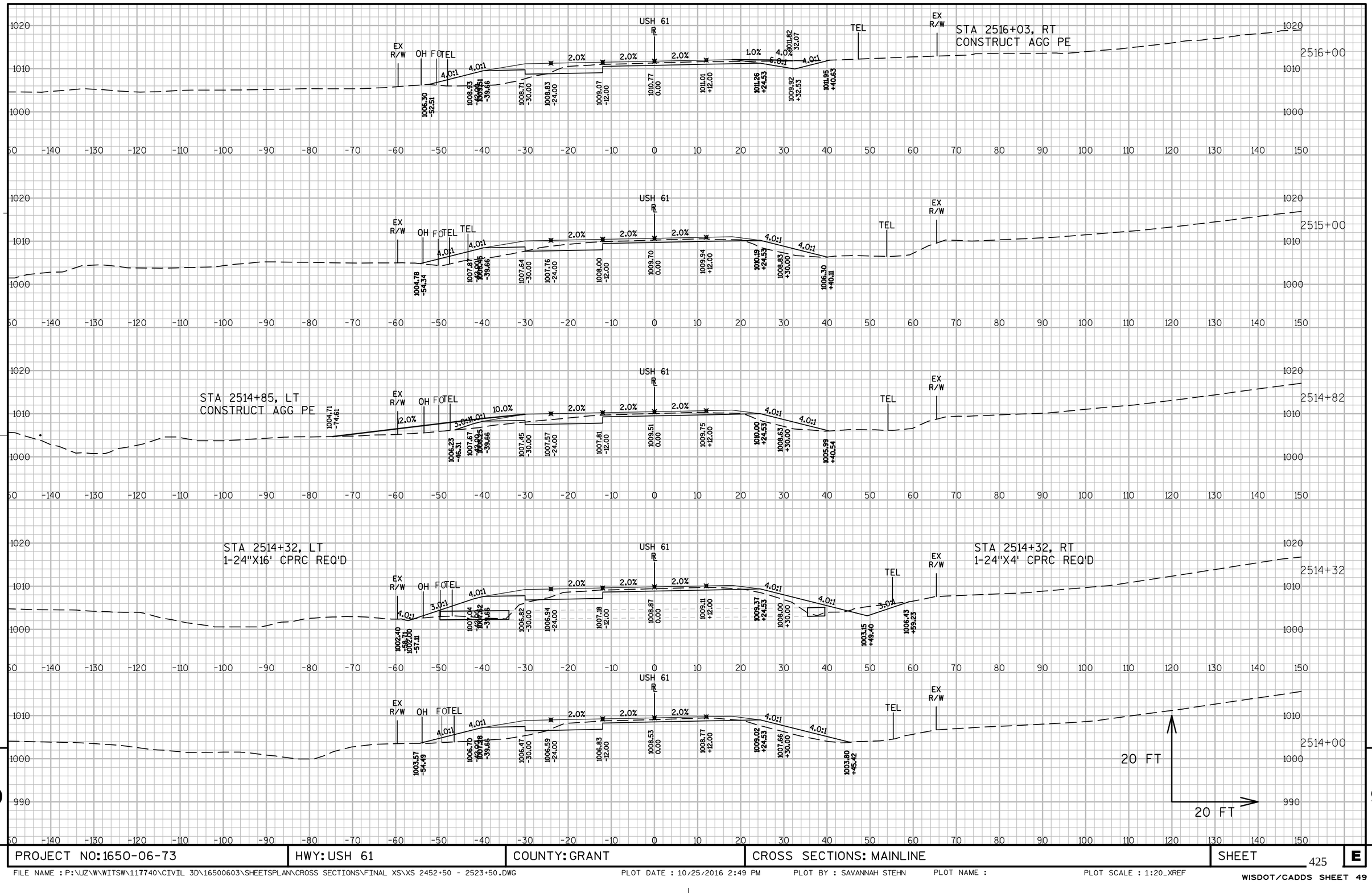


9

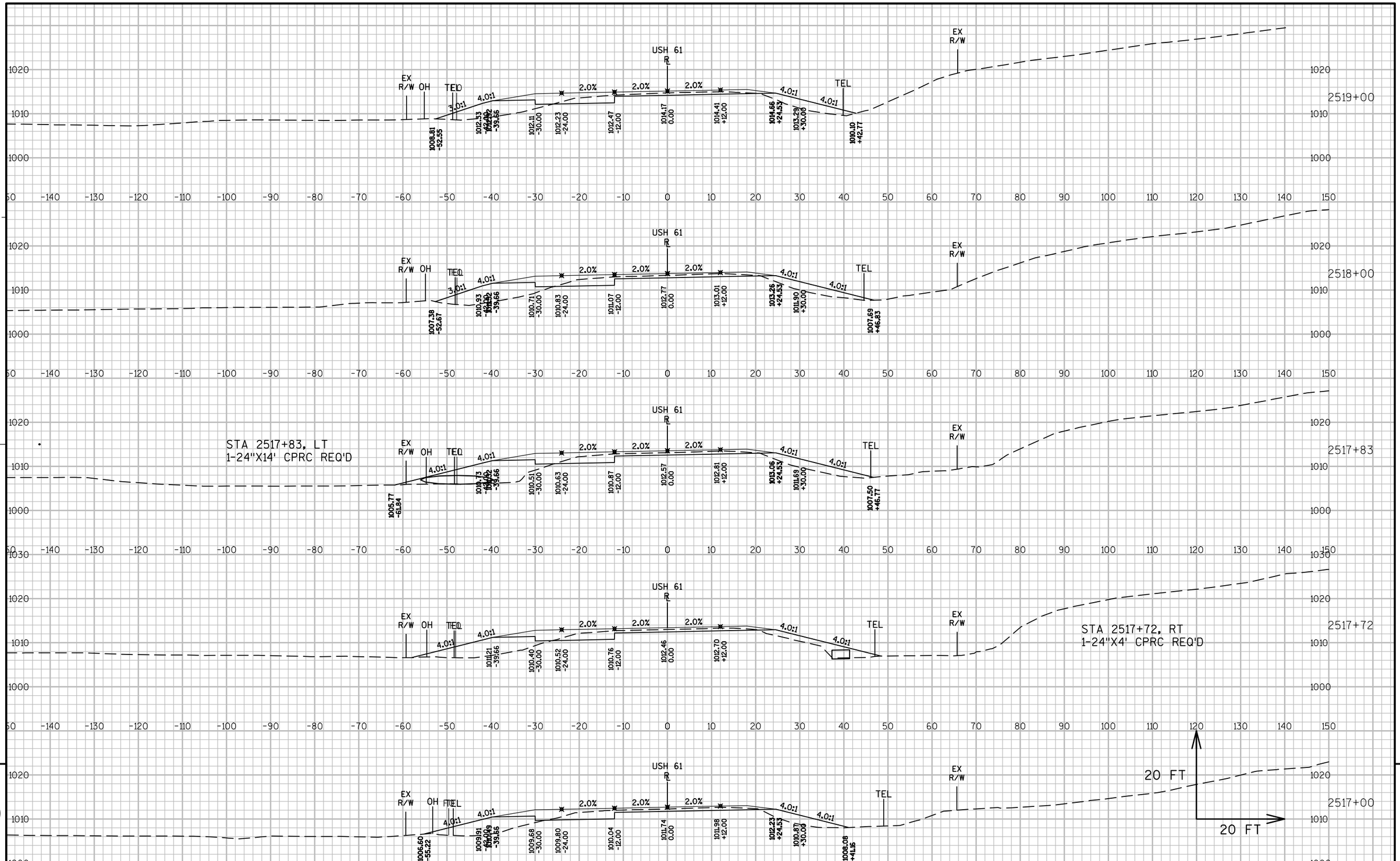
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 424	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:48 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 425	E

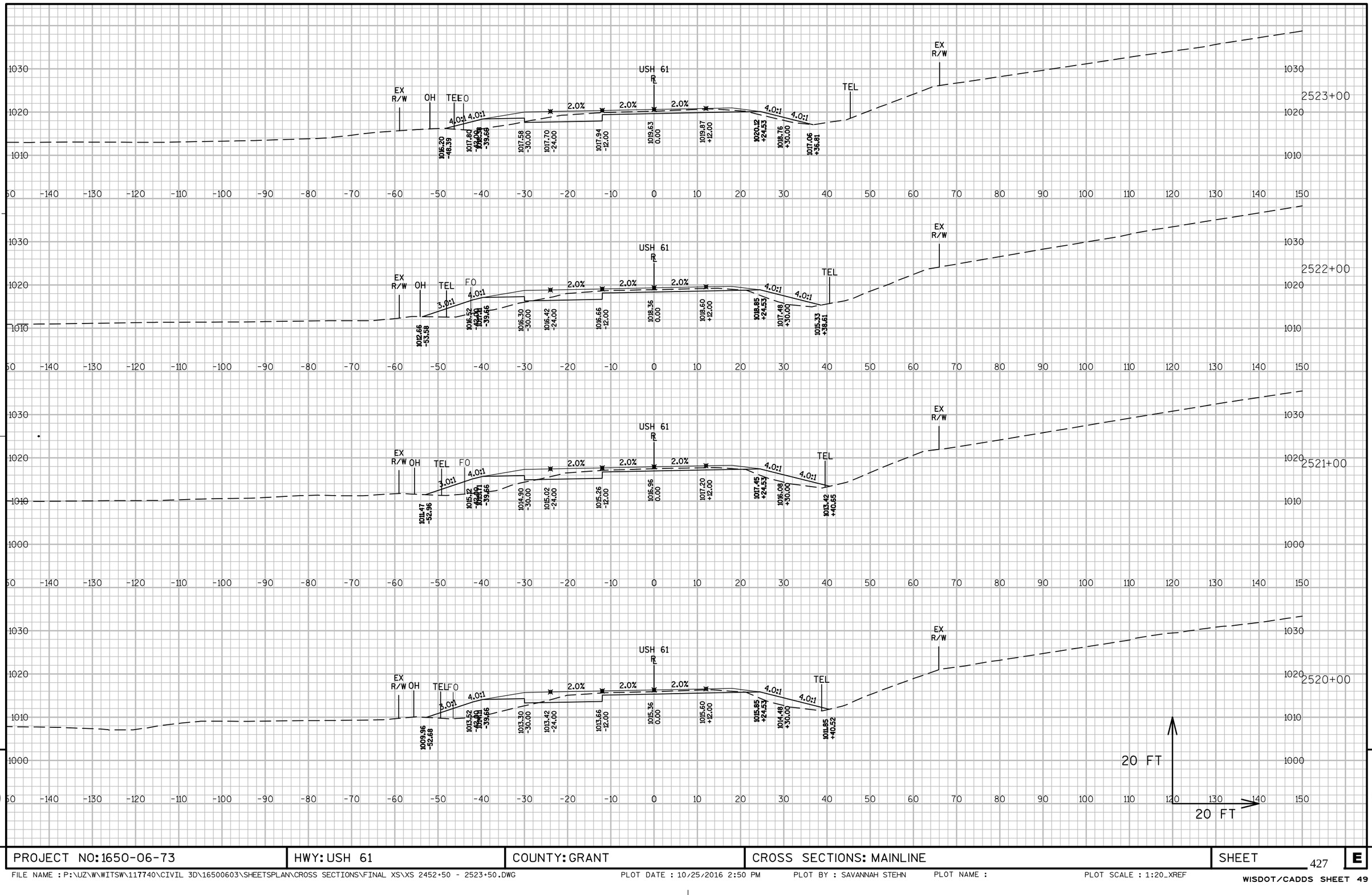


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 426	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:50 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

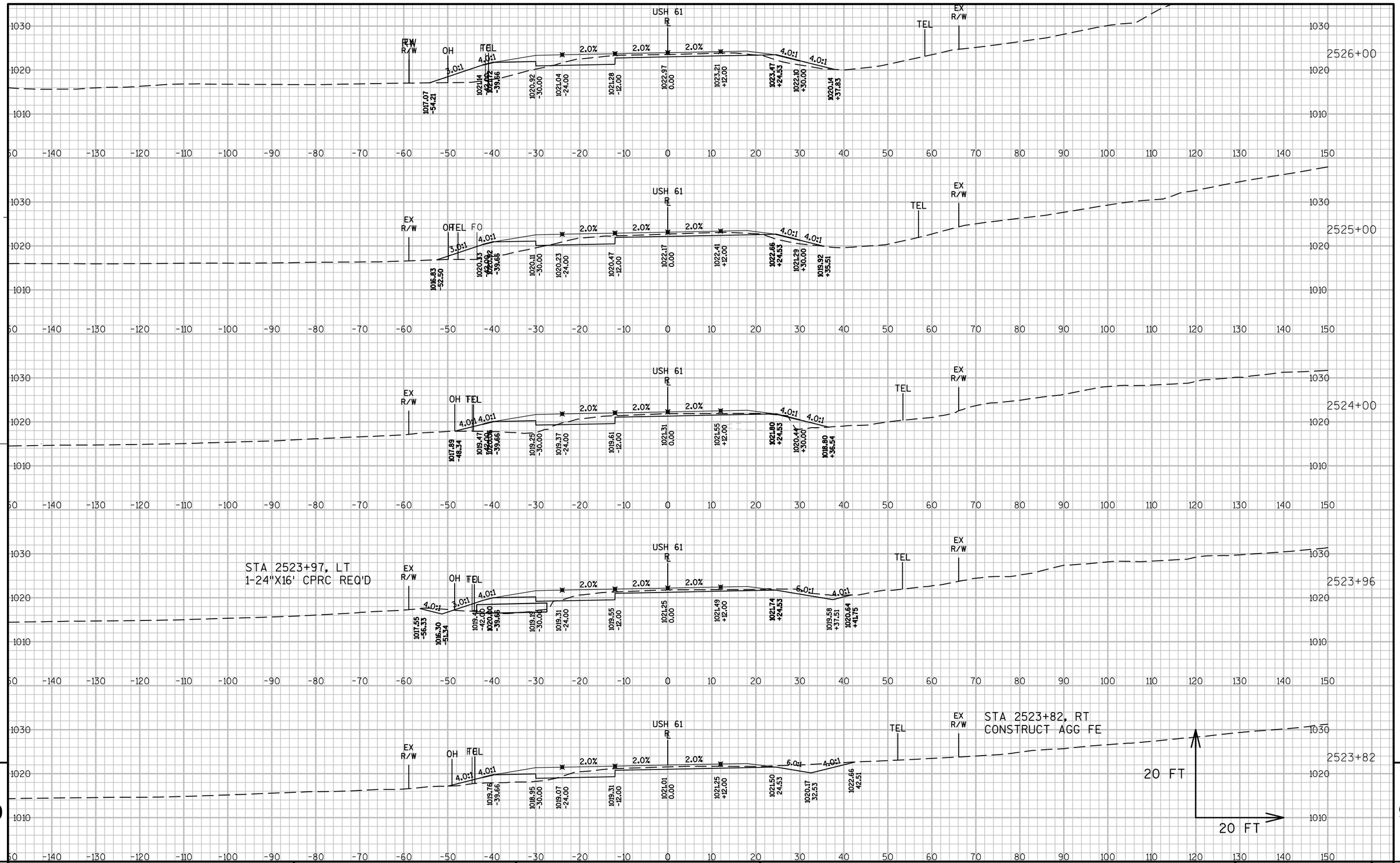
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 427	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2452+50 - 2523+50.DWG PLOT DATE : 10/25/2016 2:50 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

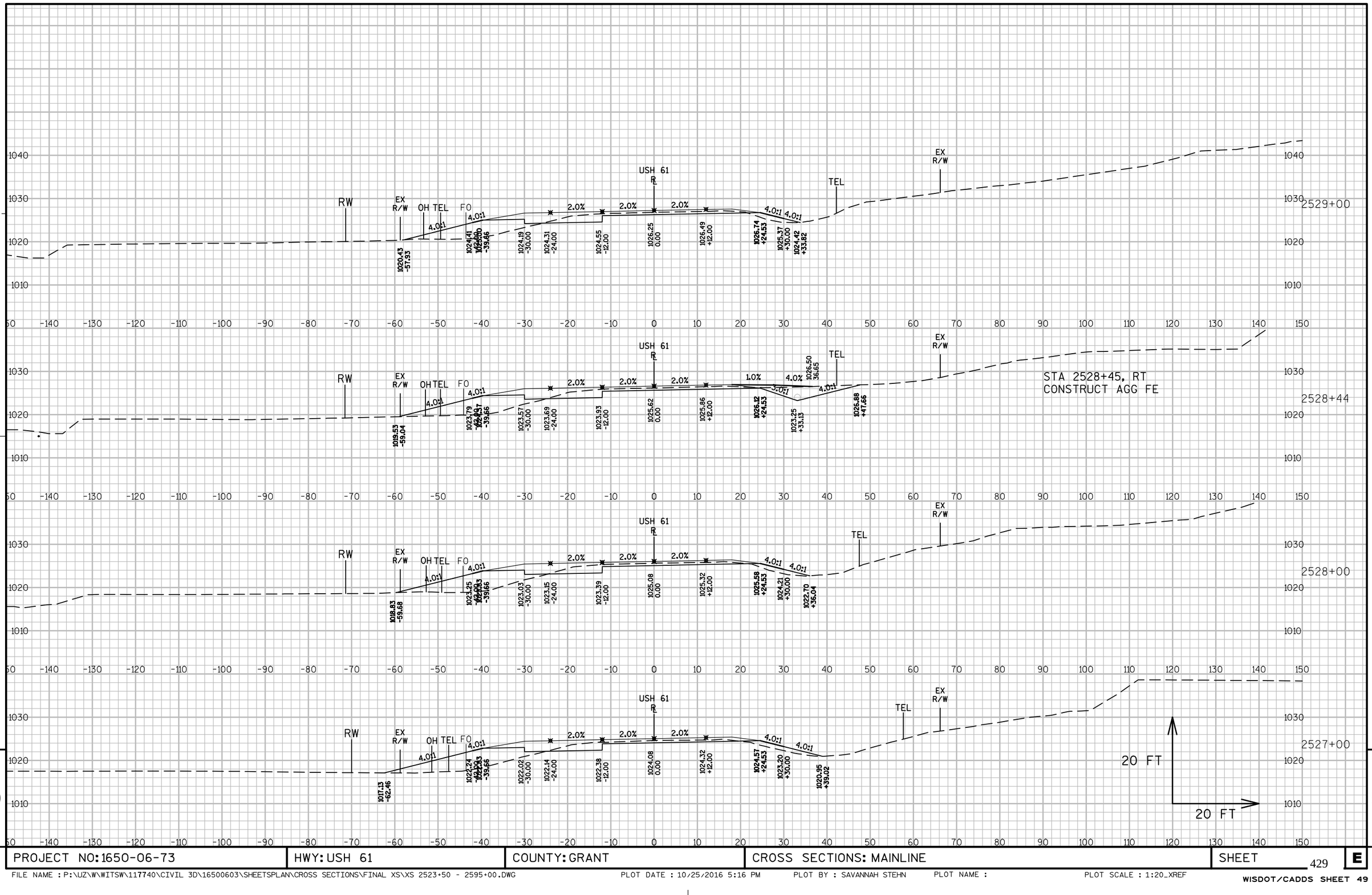
WISDOT/CADDS SHEET 49



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 428	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:15 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



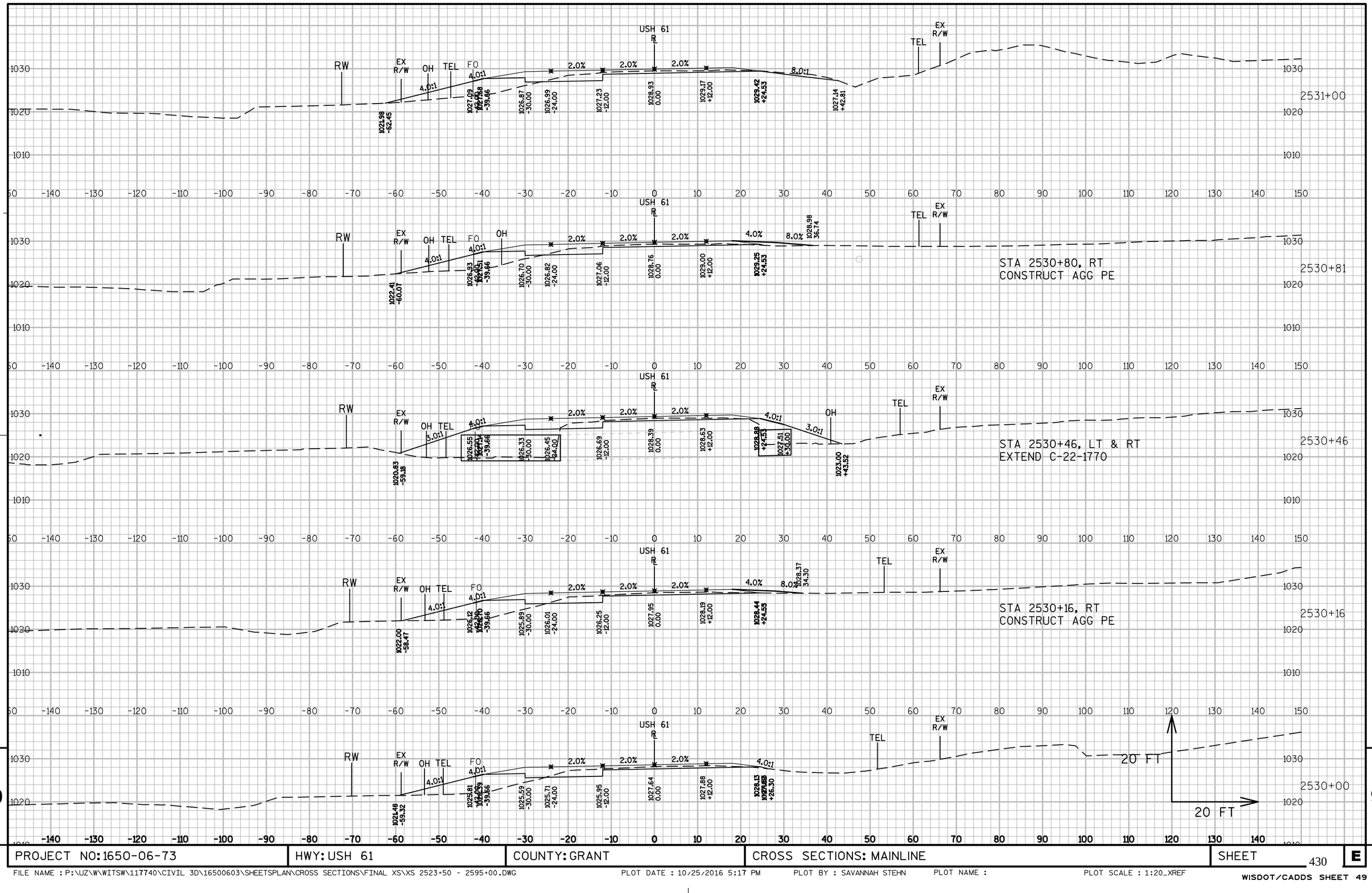
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 429	E

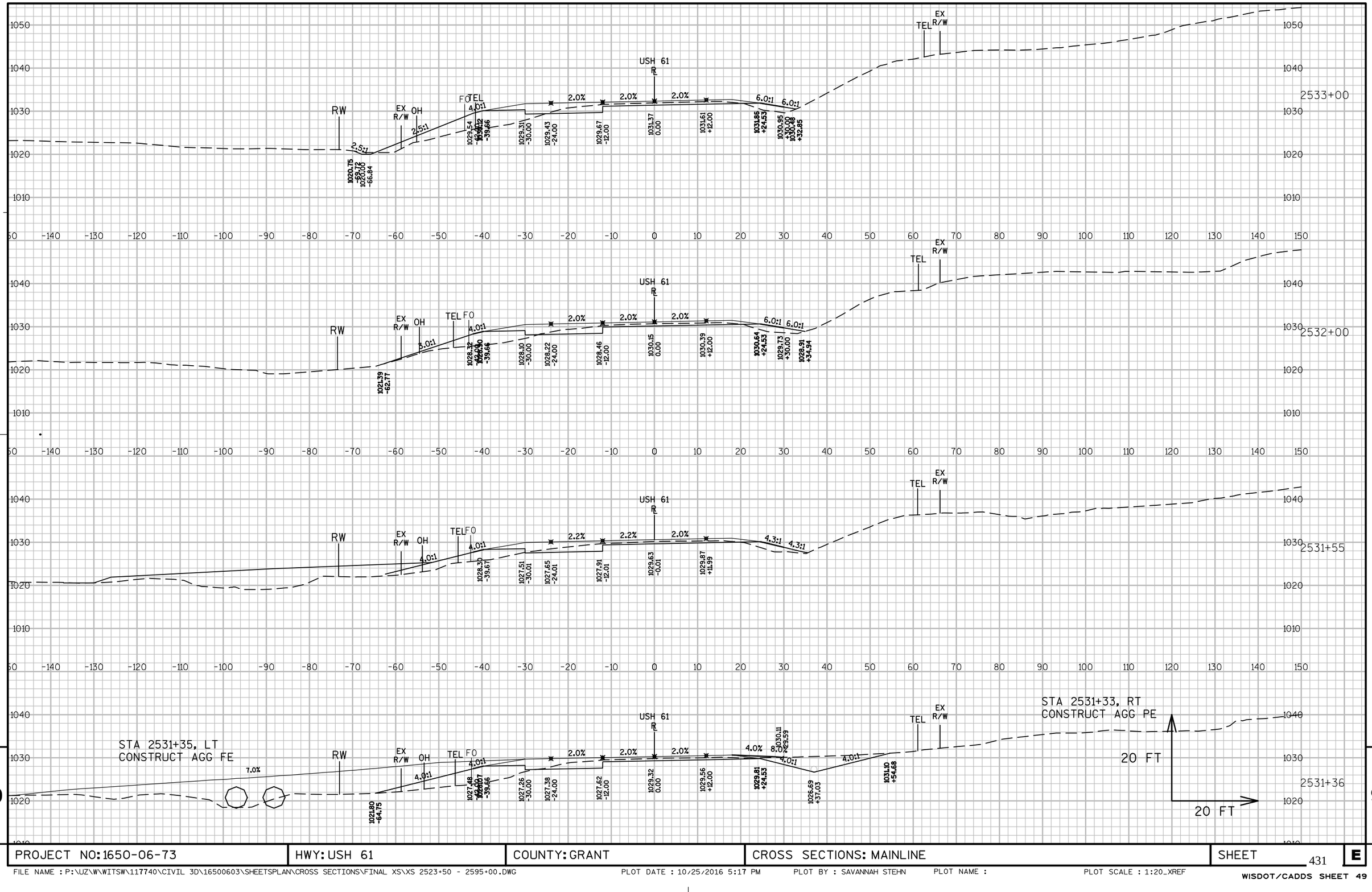
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:16 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

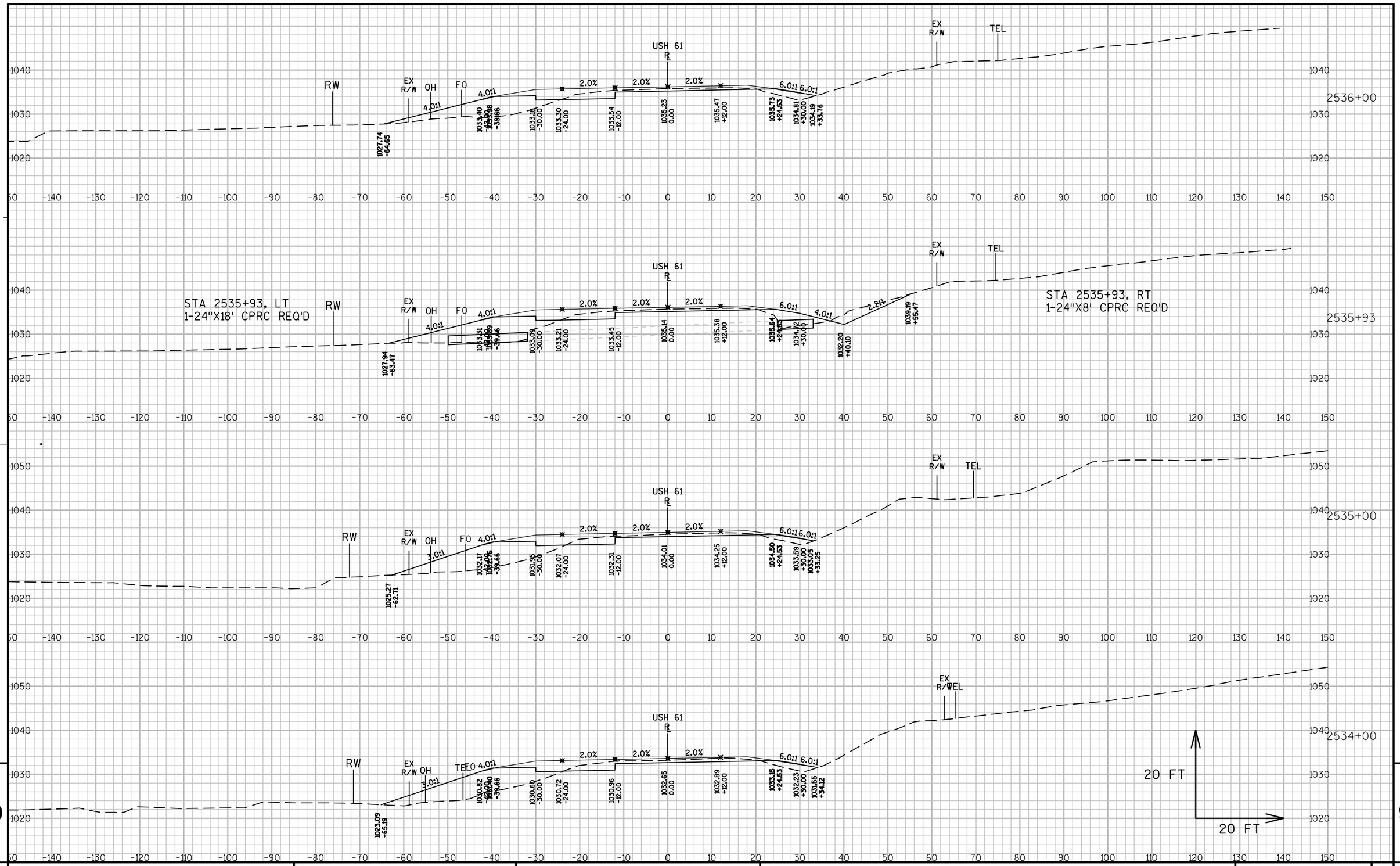


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 430	E



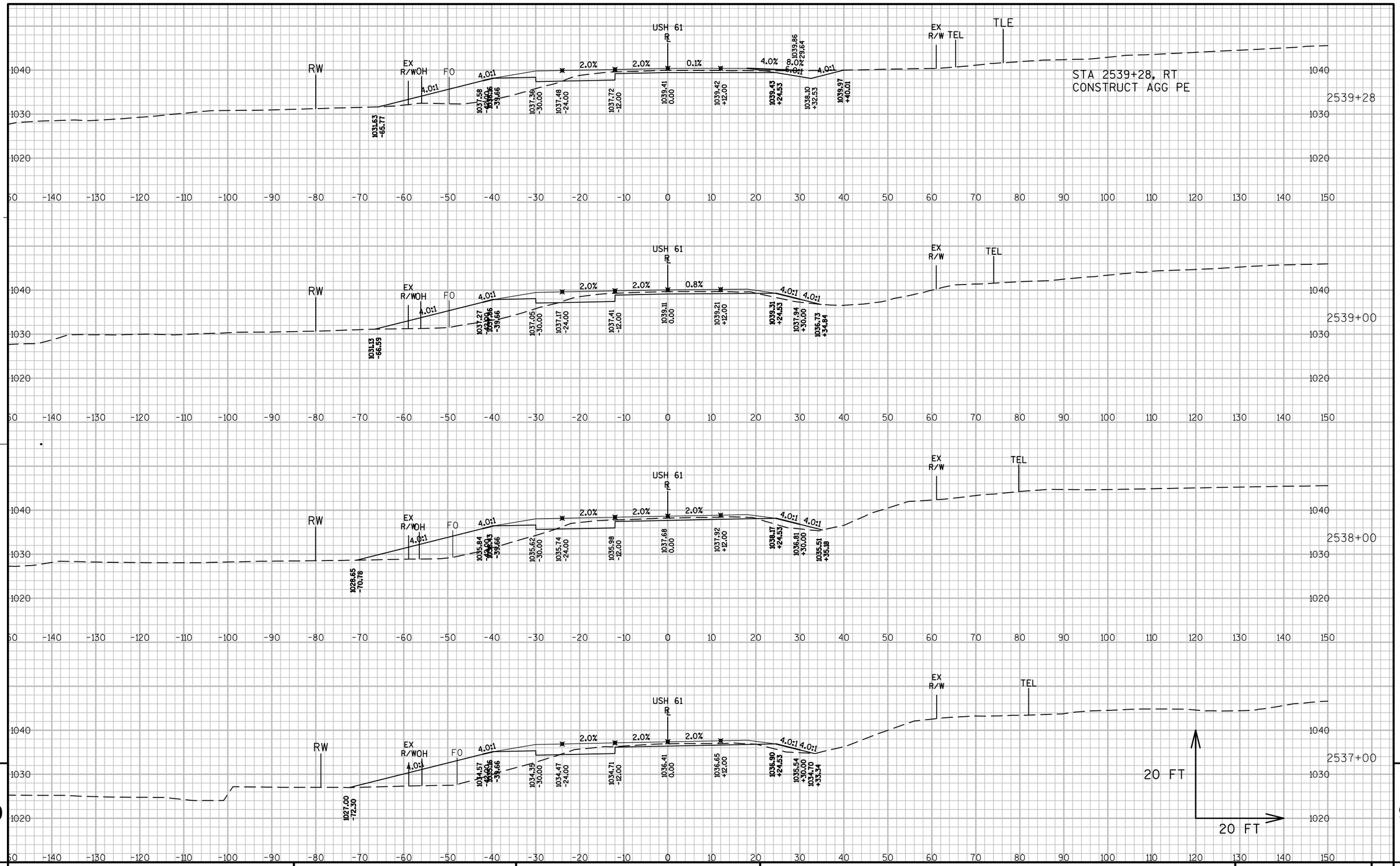
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 431	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 432 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:18 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

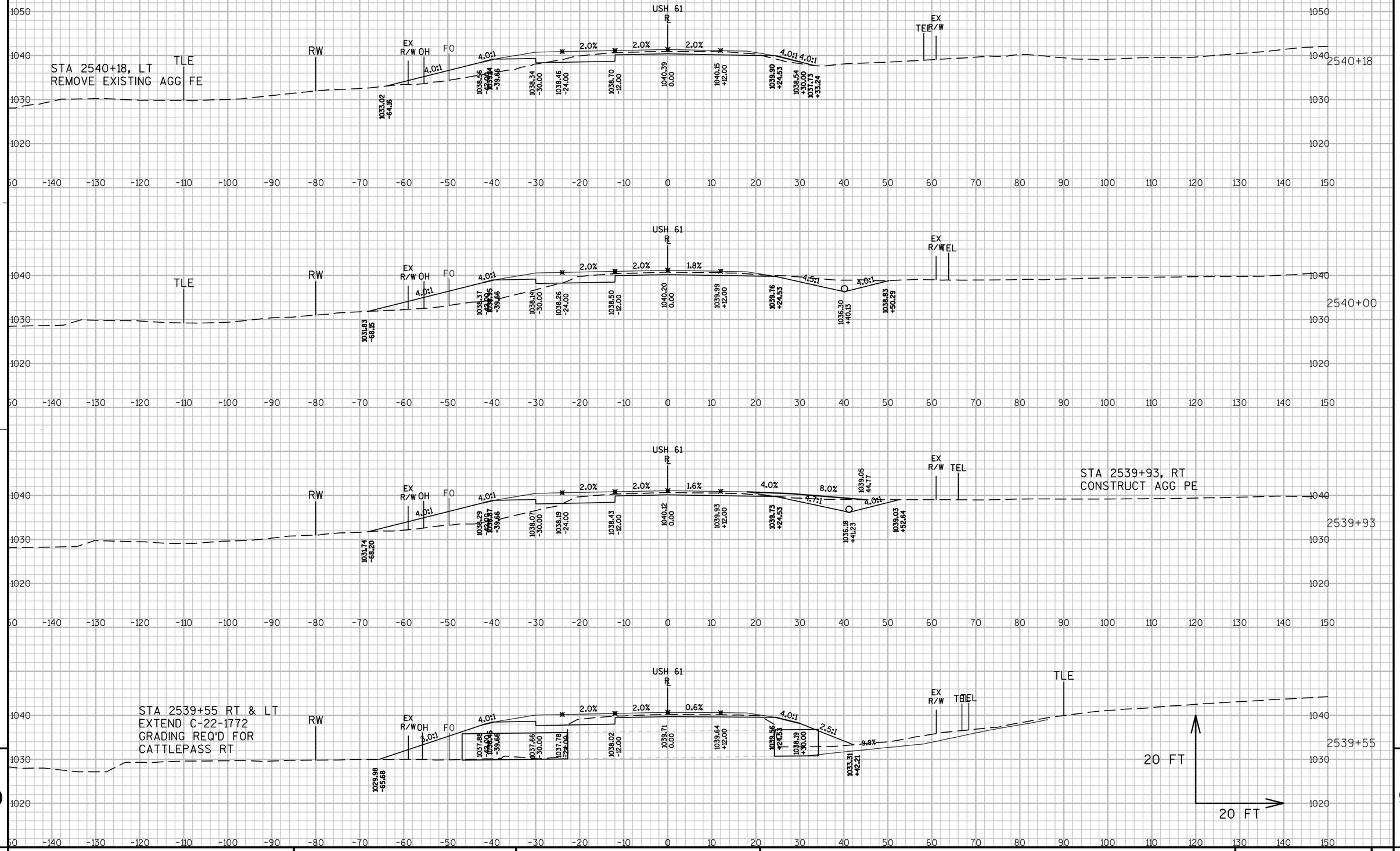


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 433	E

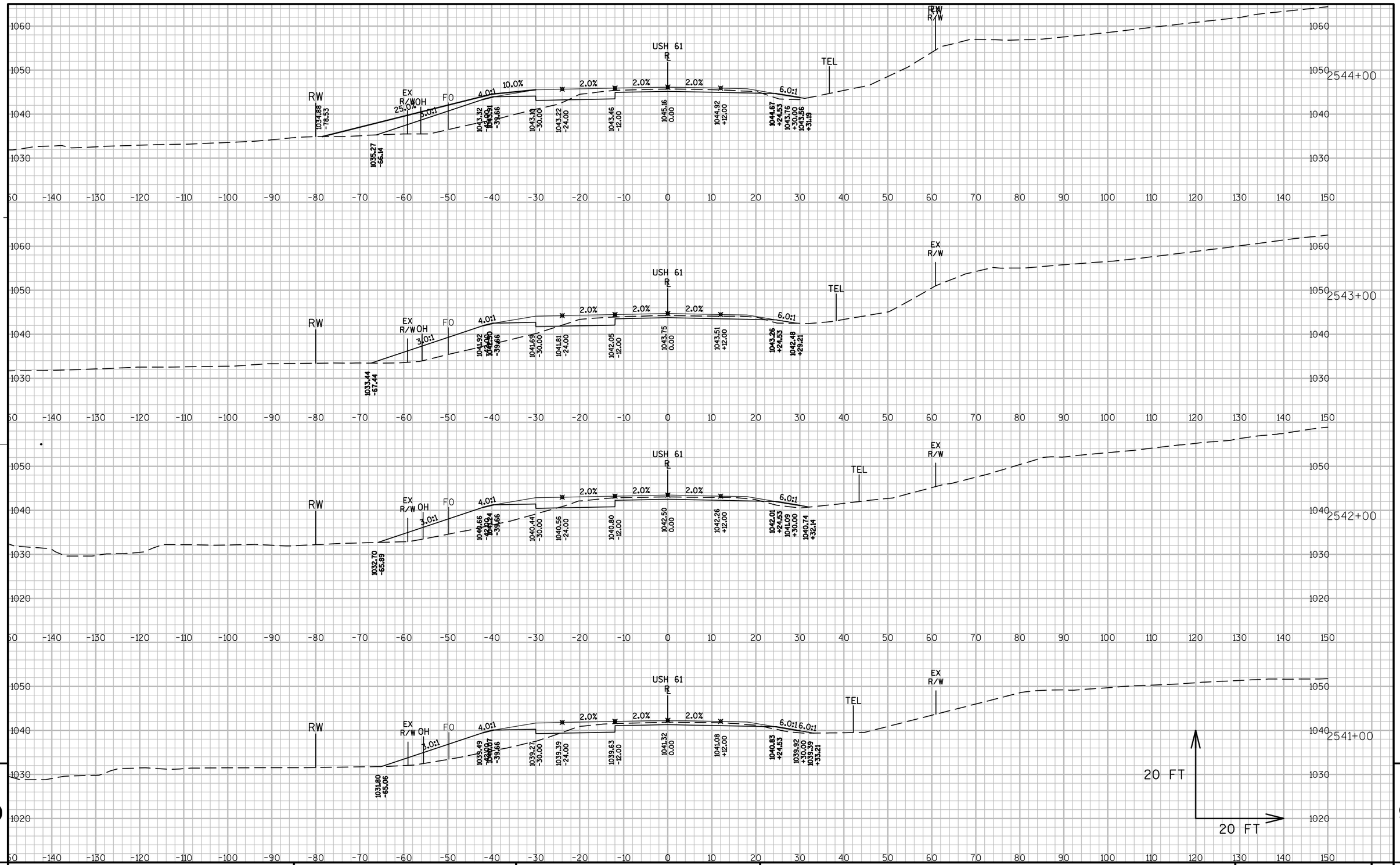
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:18 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 434	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 6:01 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

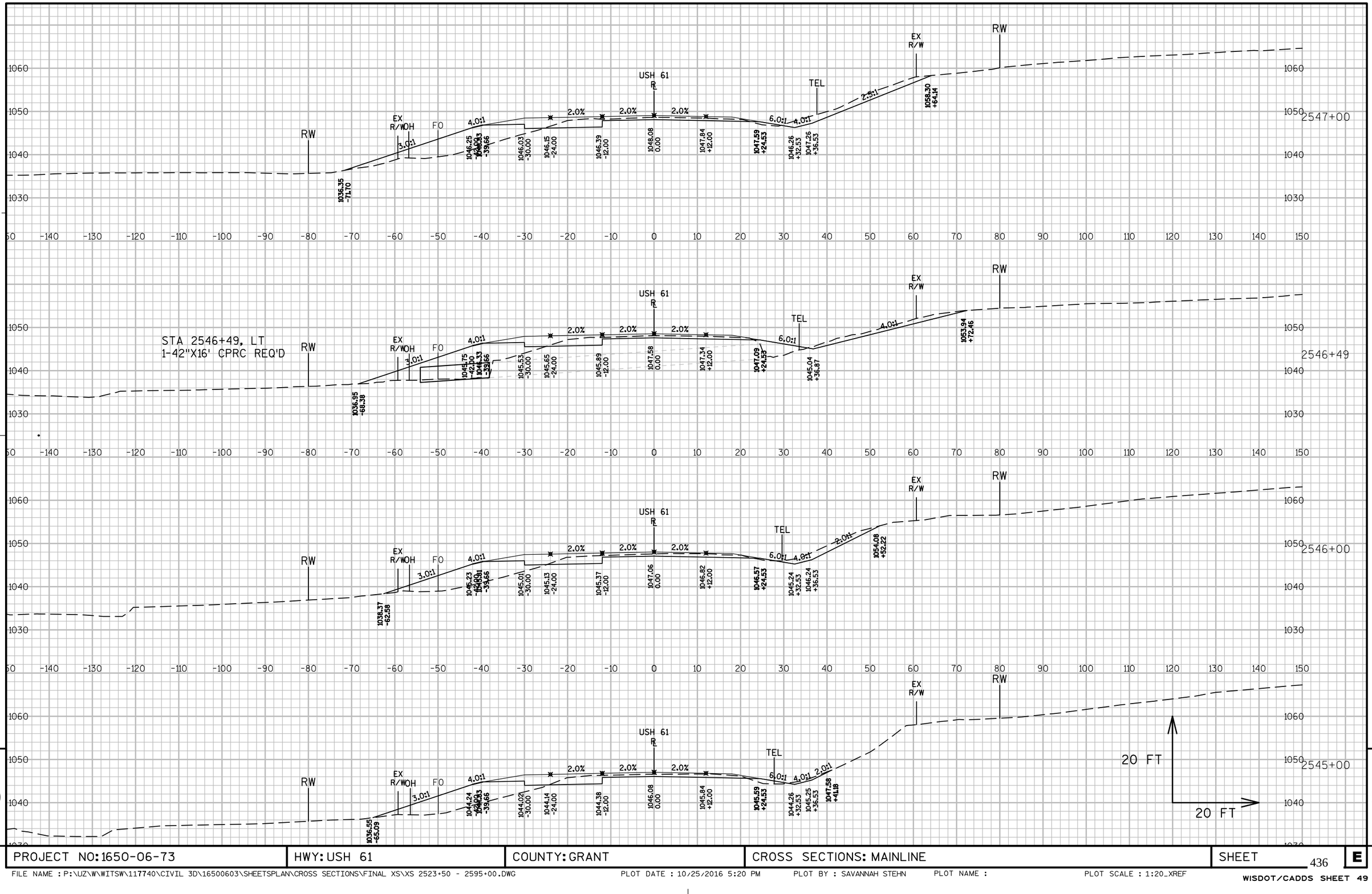


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 435	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:20 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

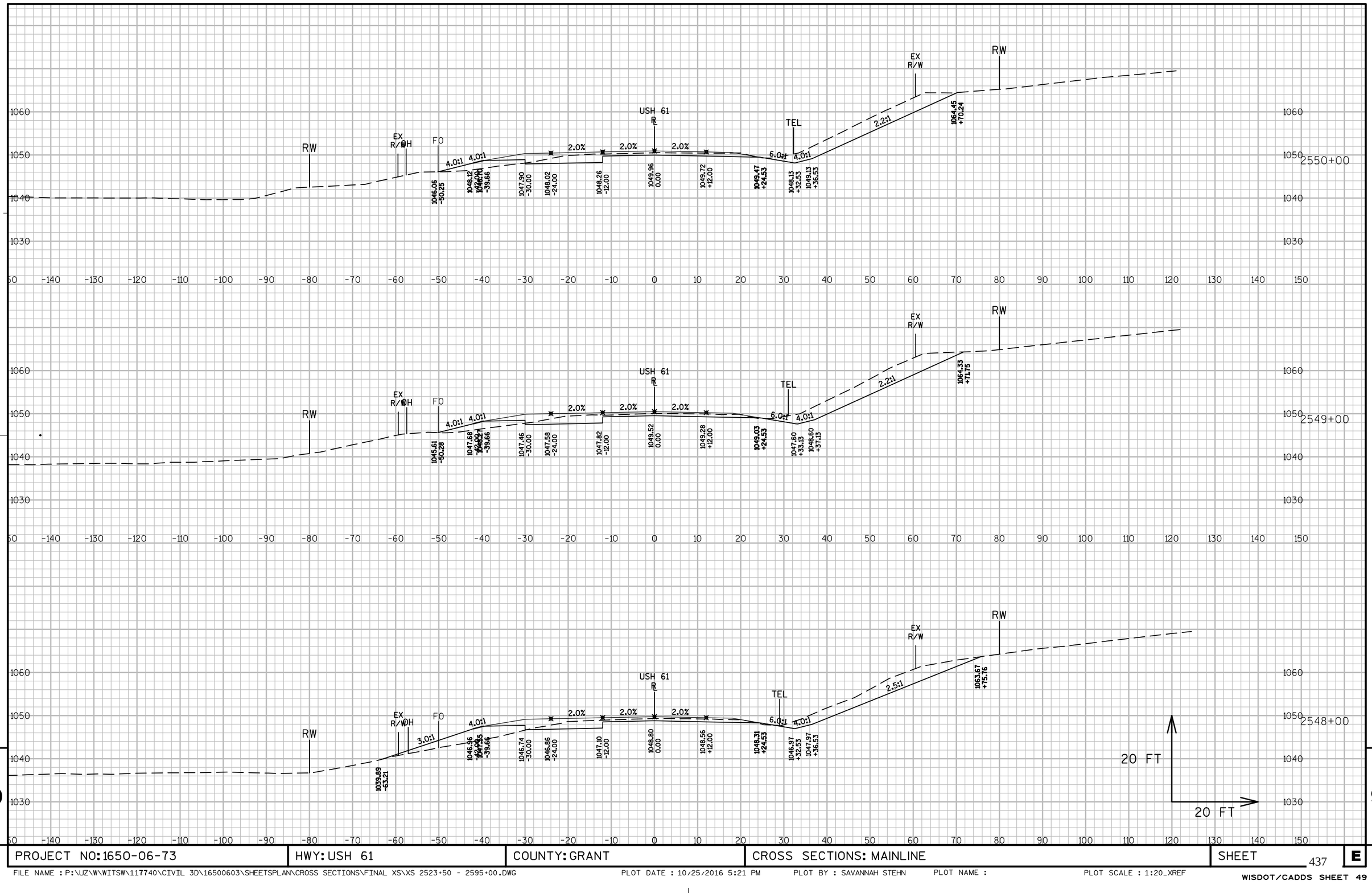


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 436	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:20 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

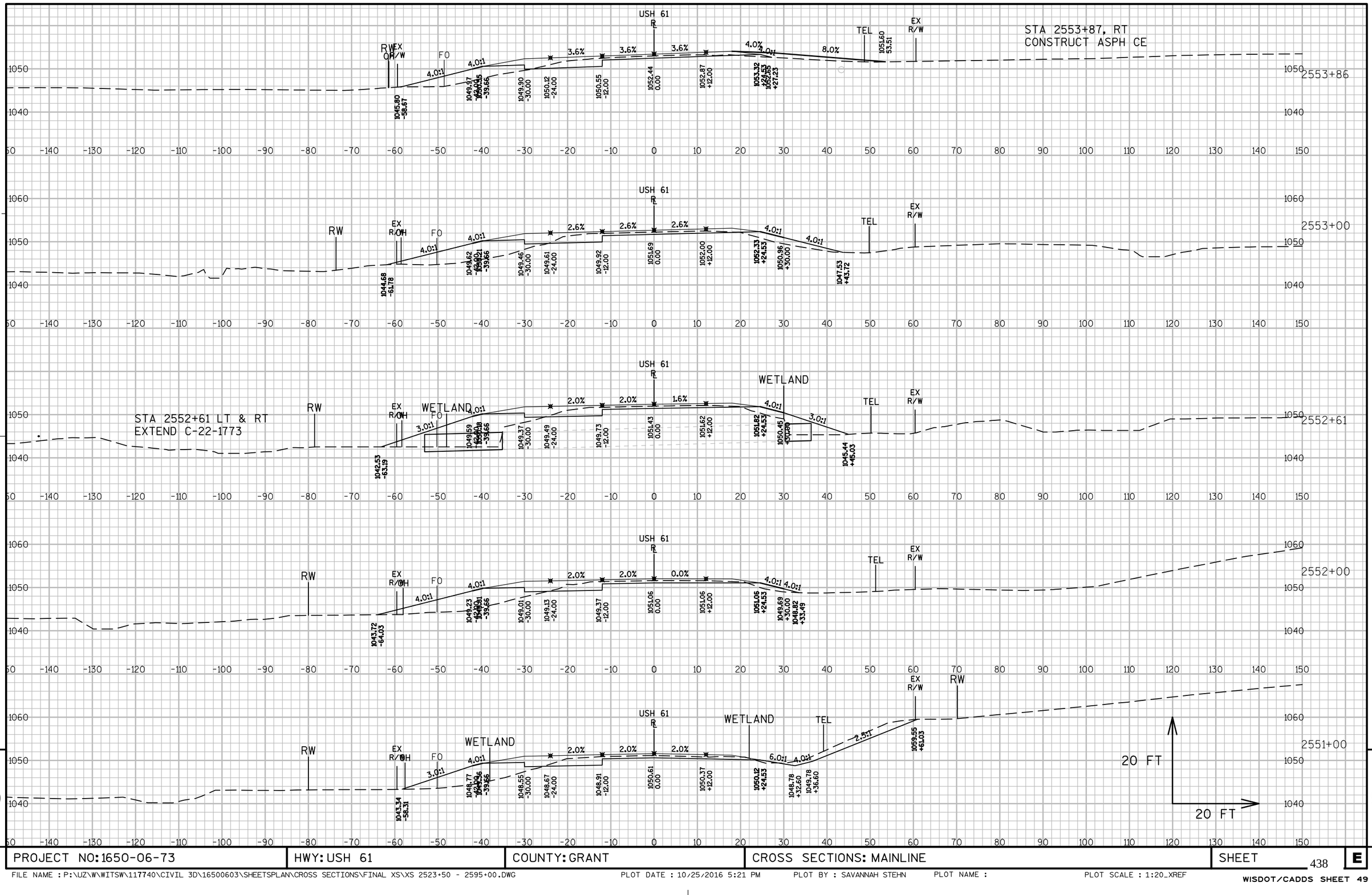


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 437	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:21 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

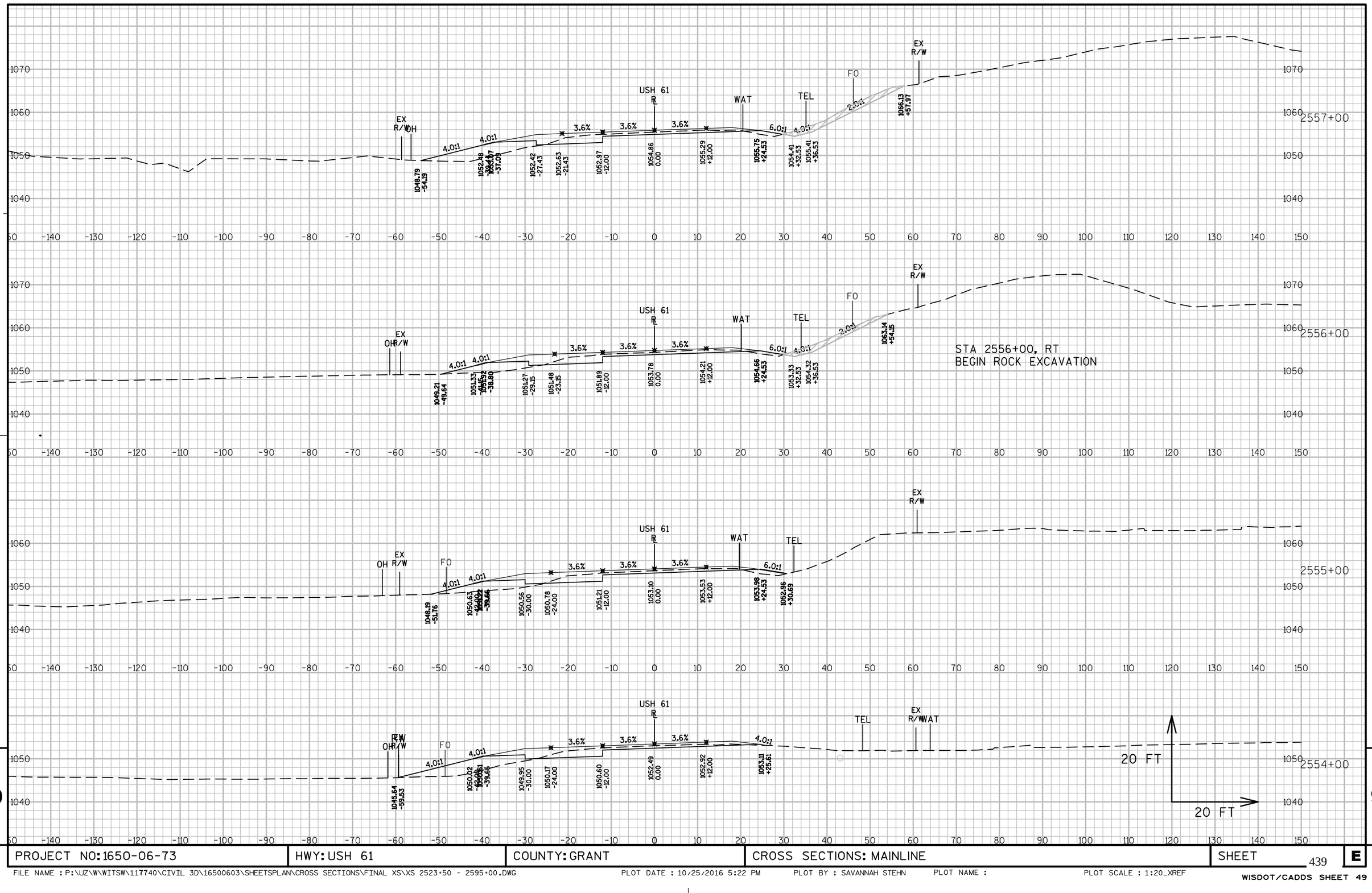


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 438	E

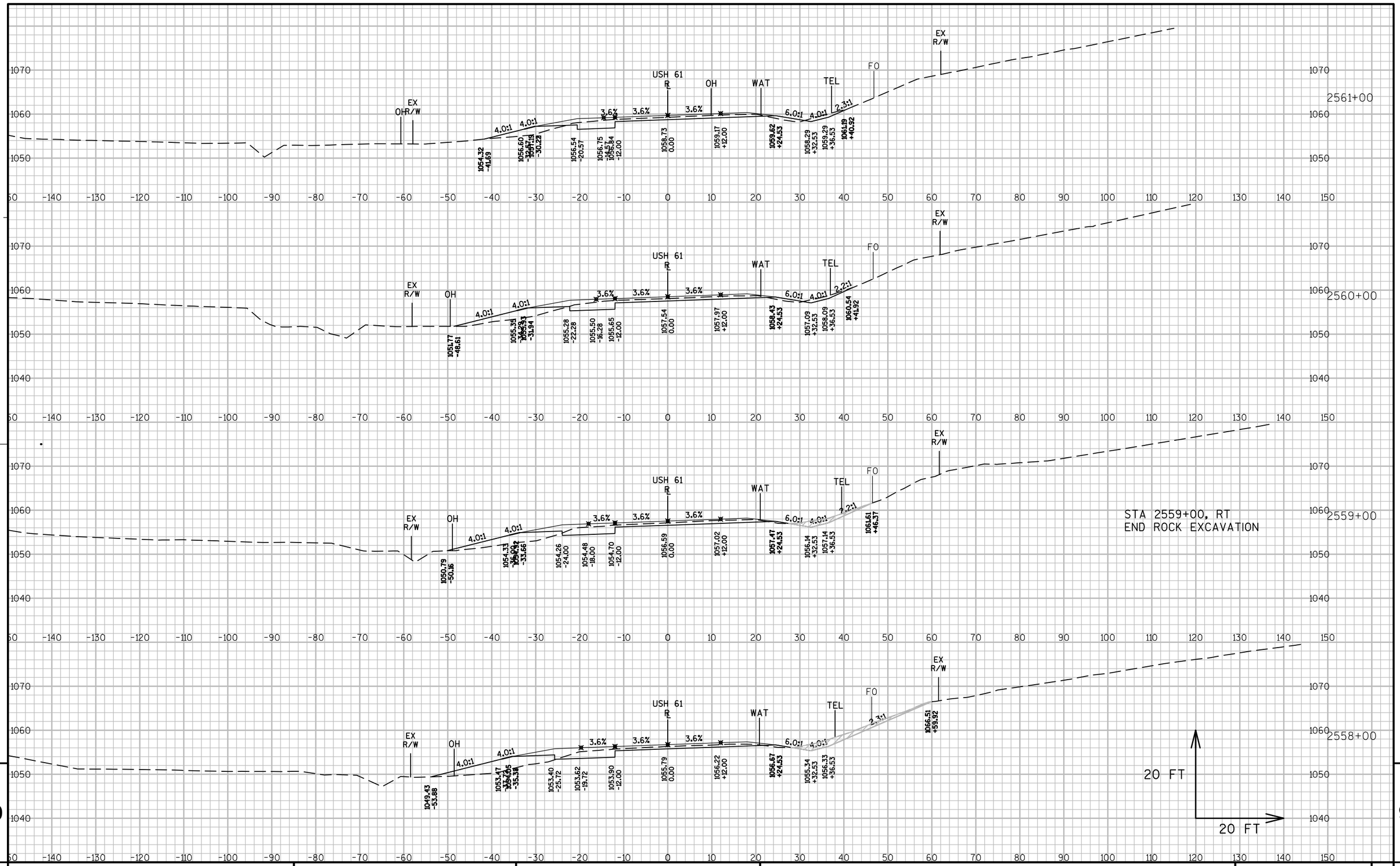
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:21 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 439 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:22 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



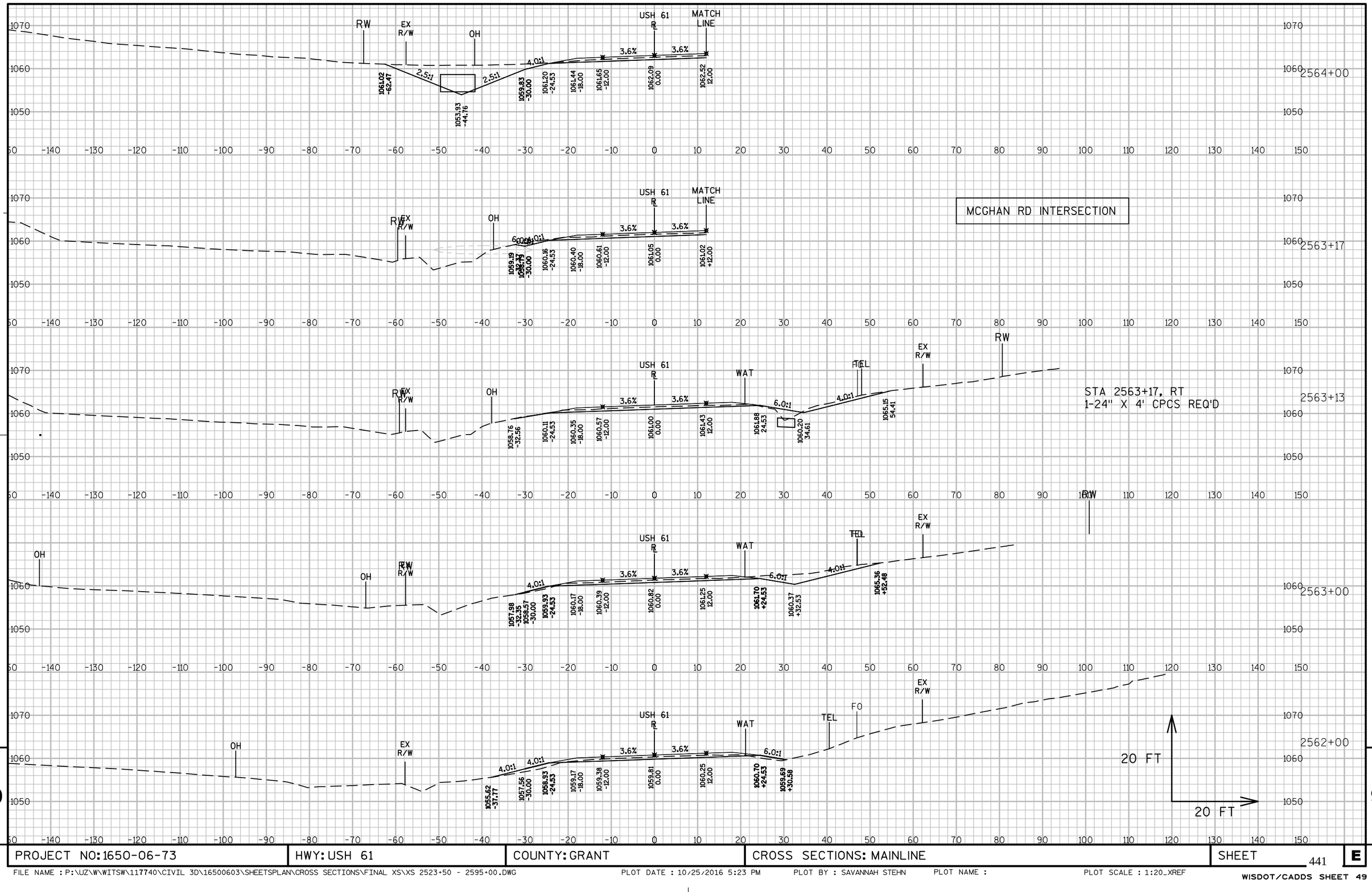
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 440	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:22 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



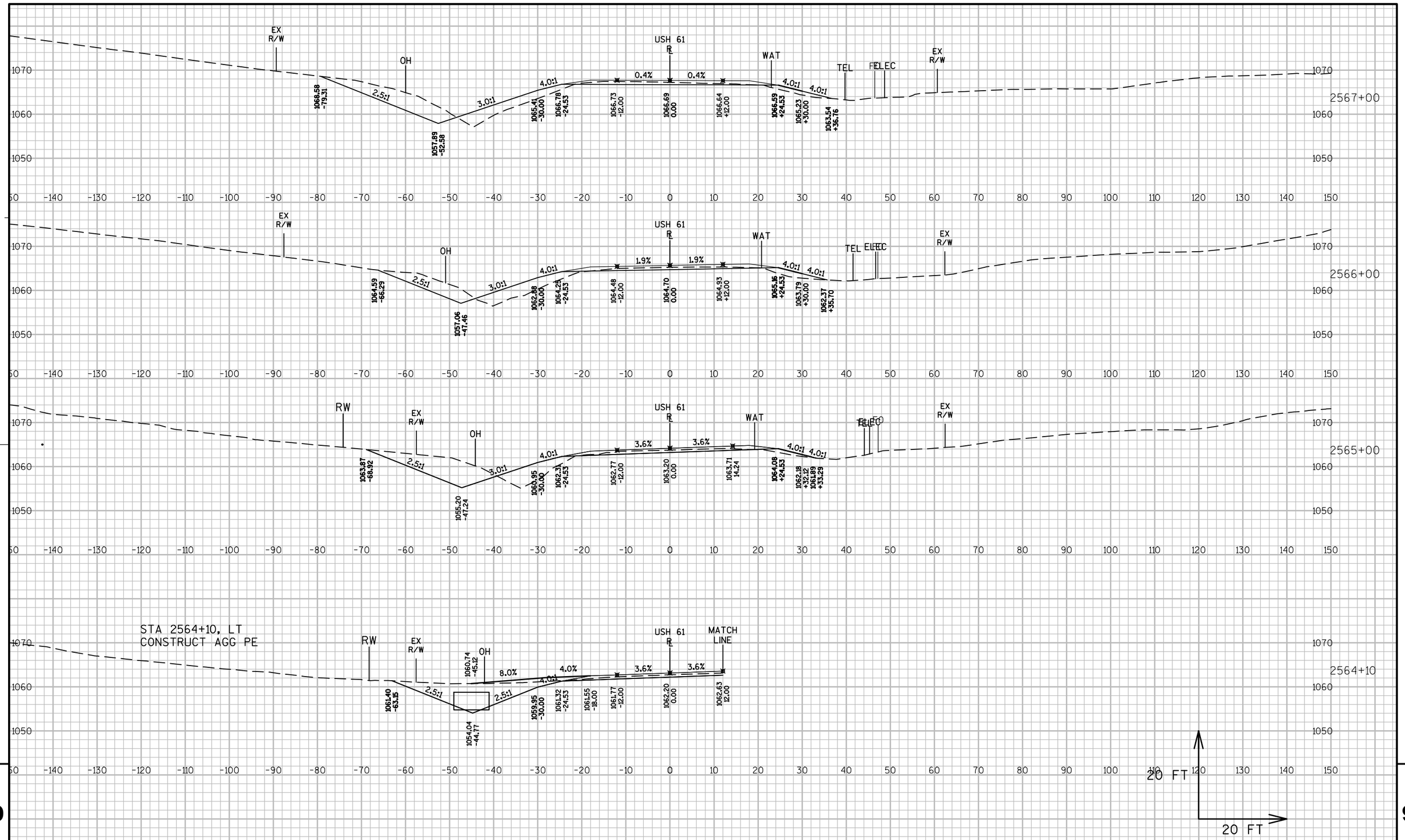
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 441	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:23 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



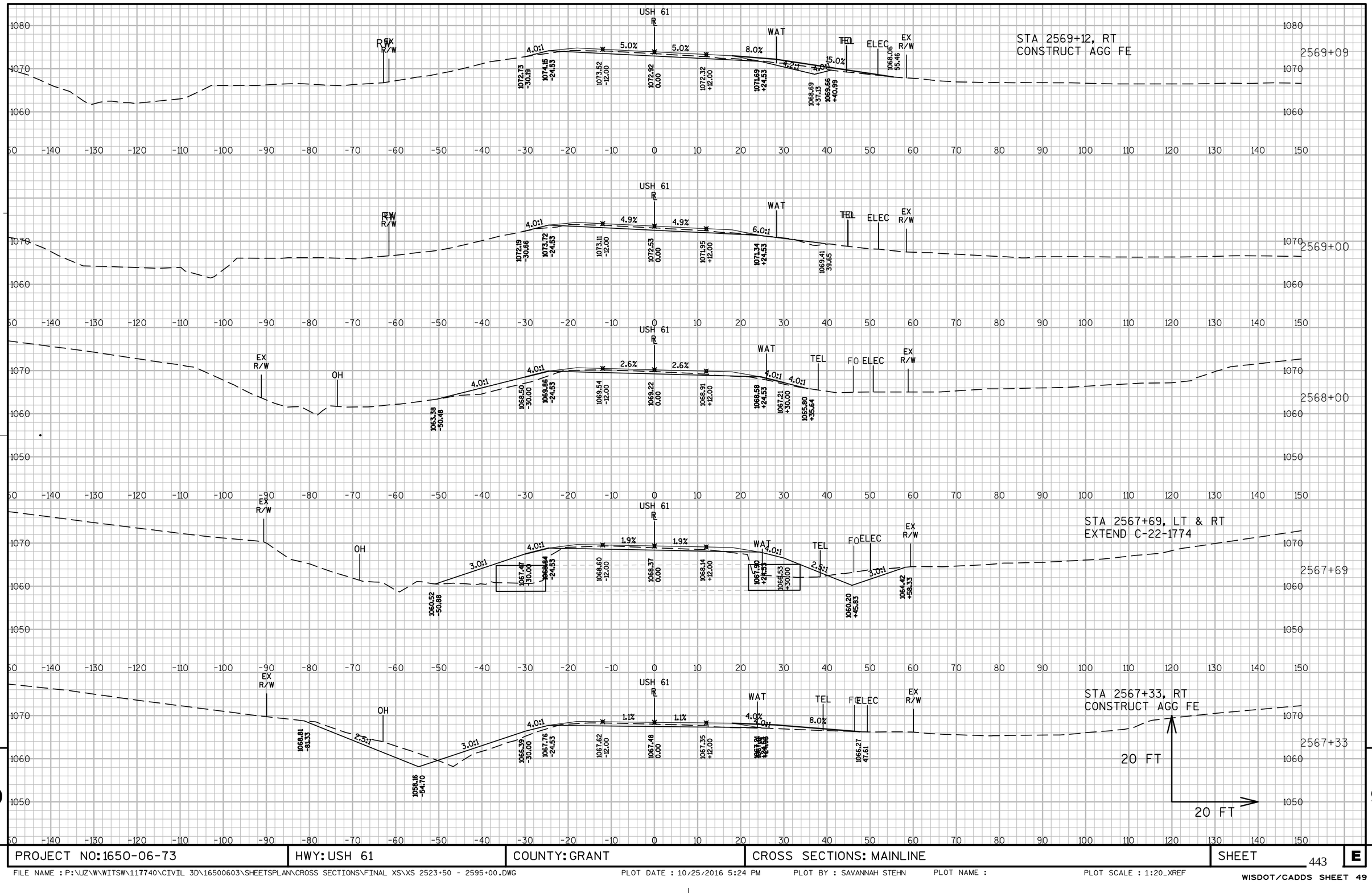
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 442	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:24 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

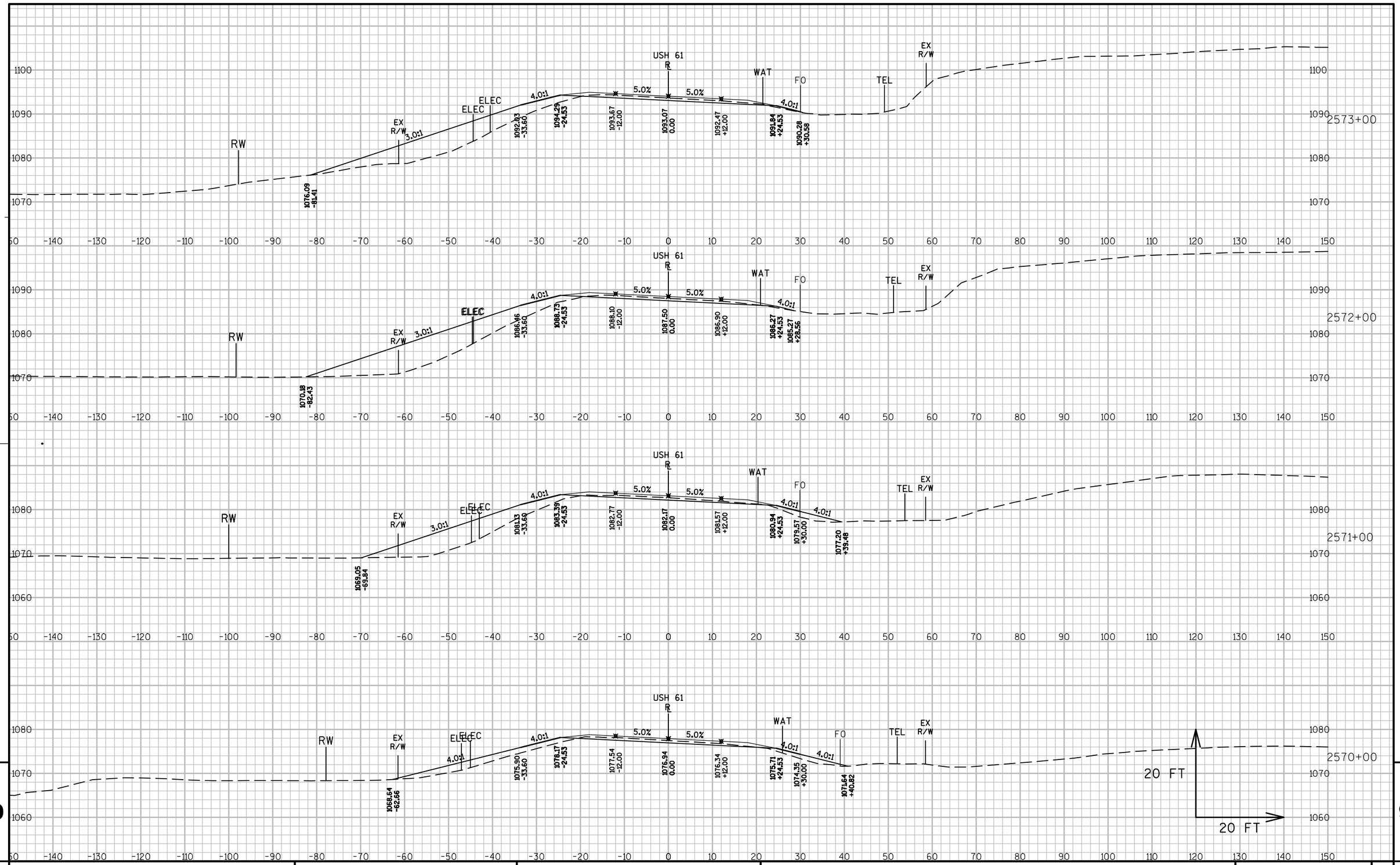


9

9

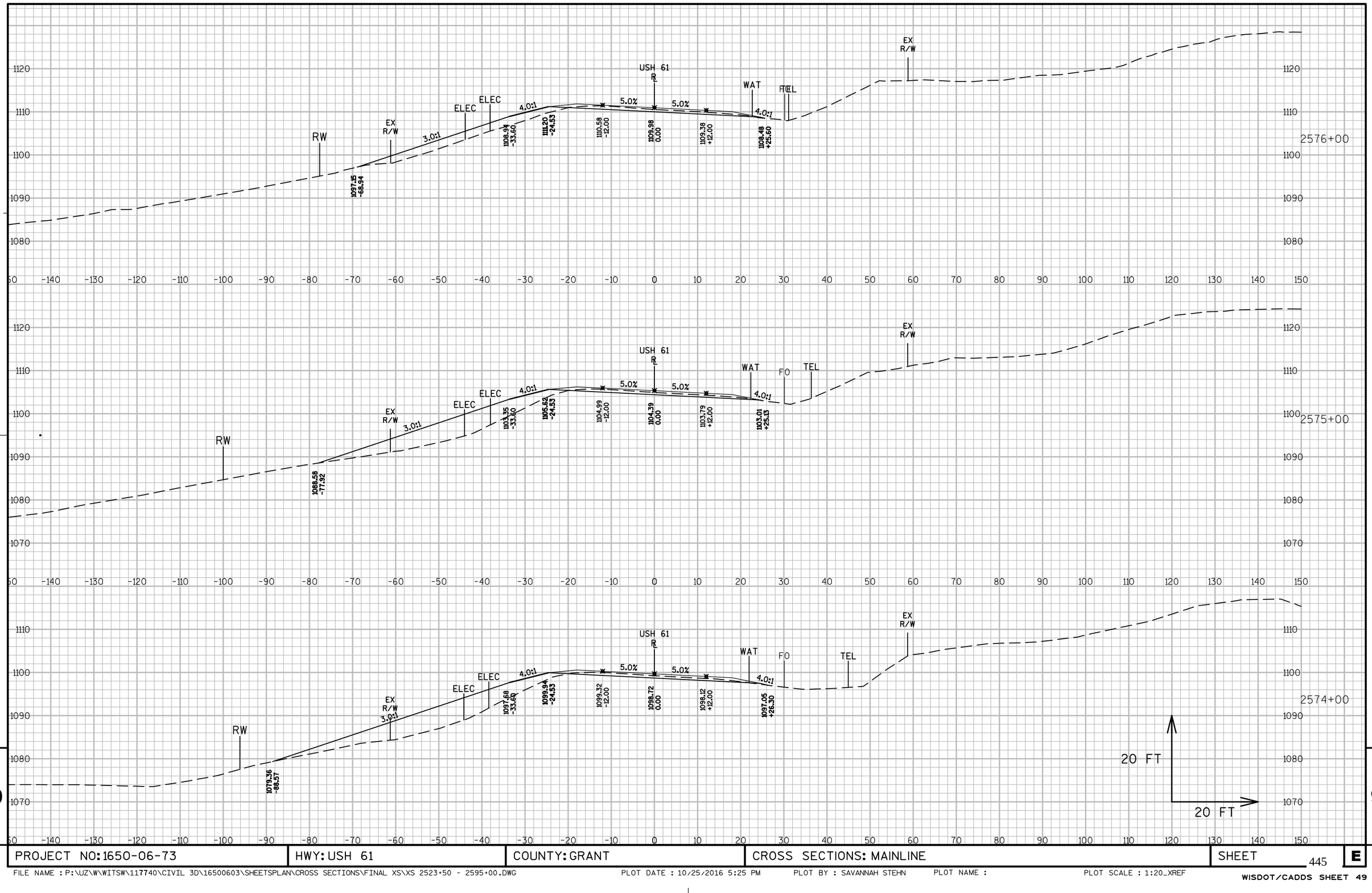
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 443	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:24 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 444	E

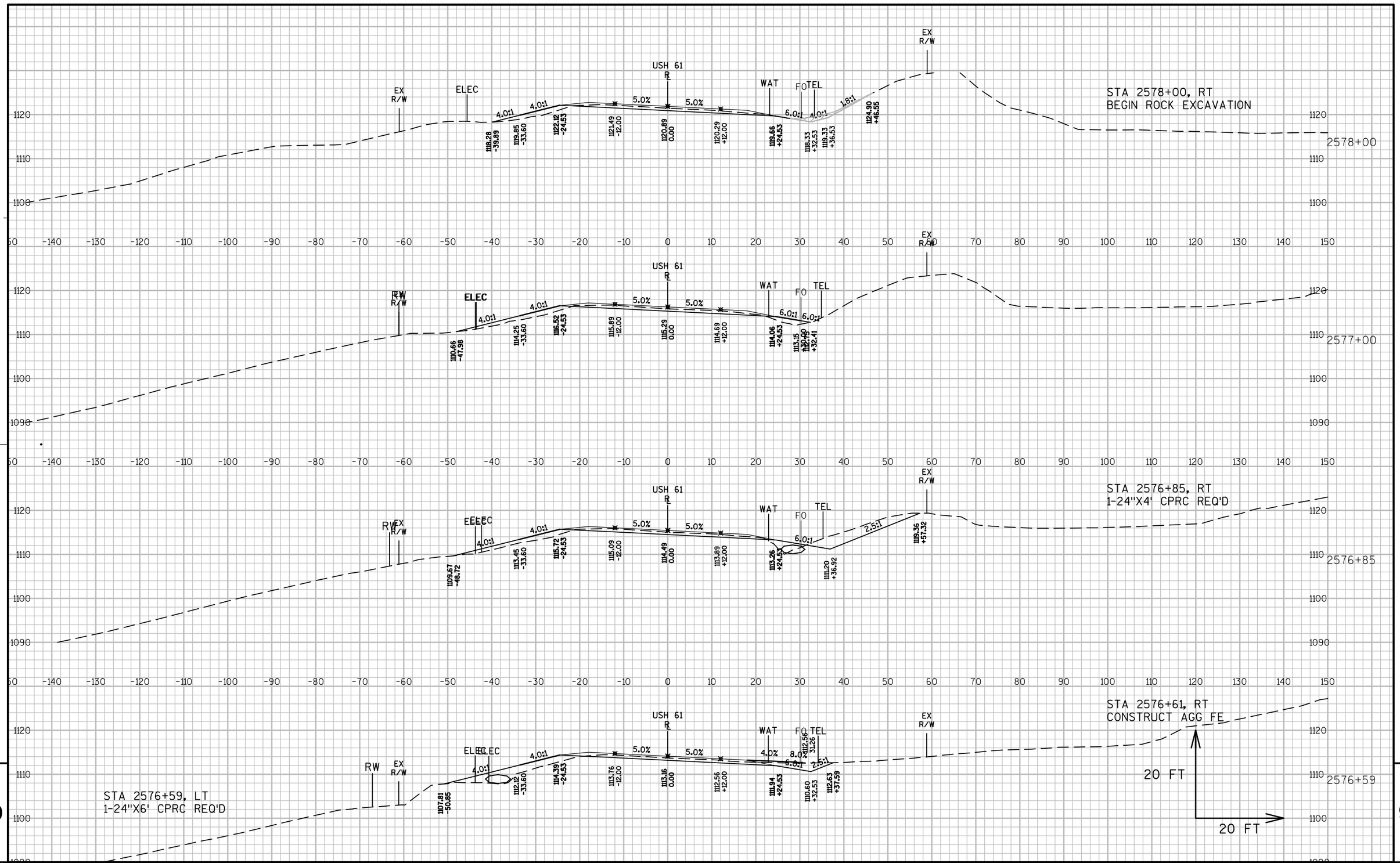
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:25 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 445	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:25 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

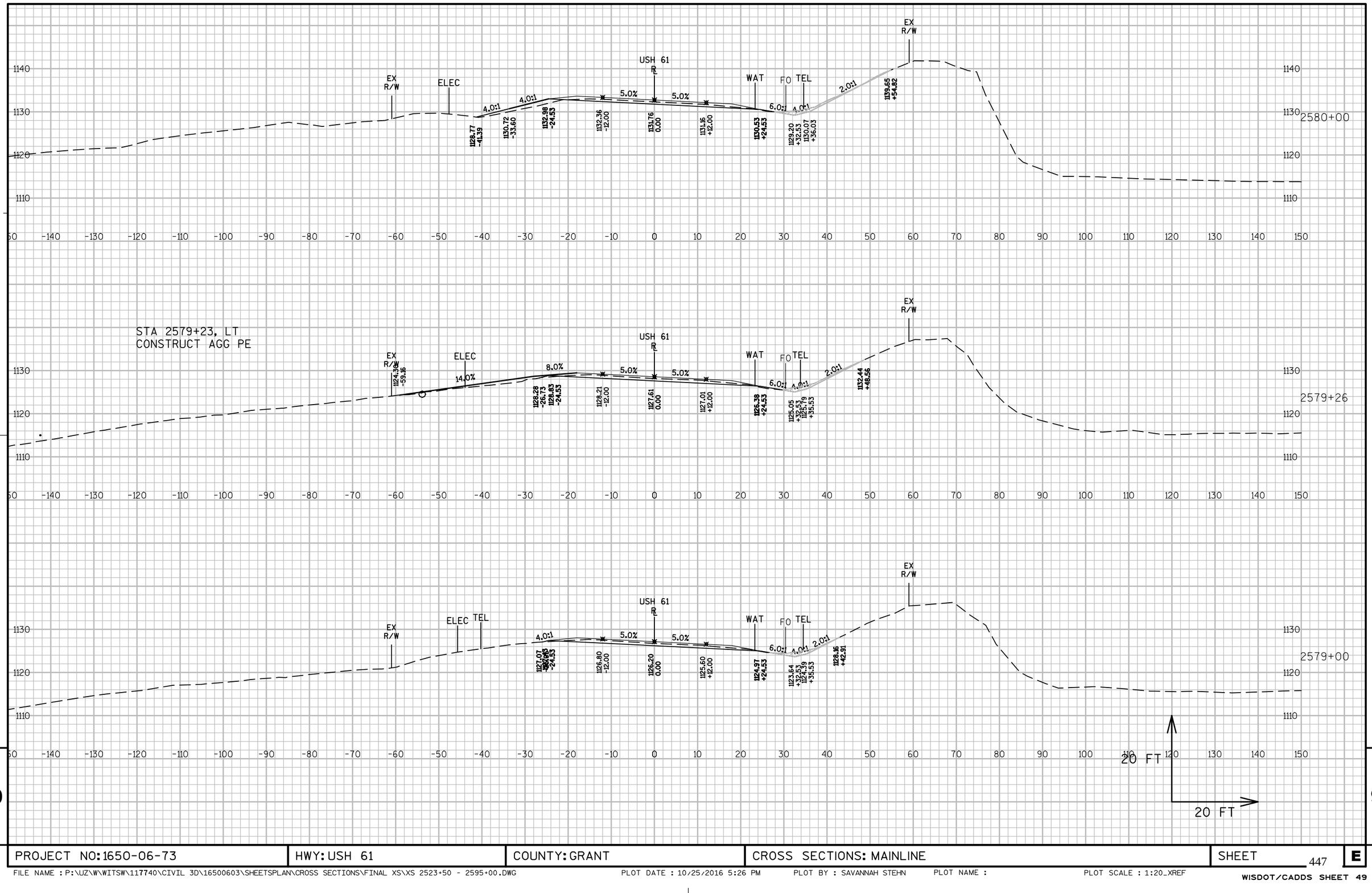


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 446	E

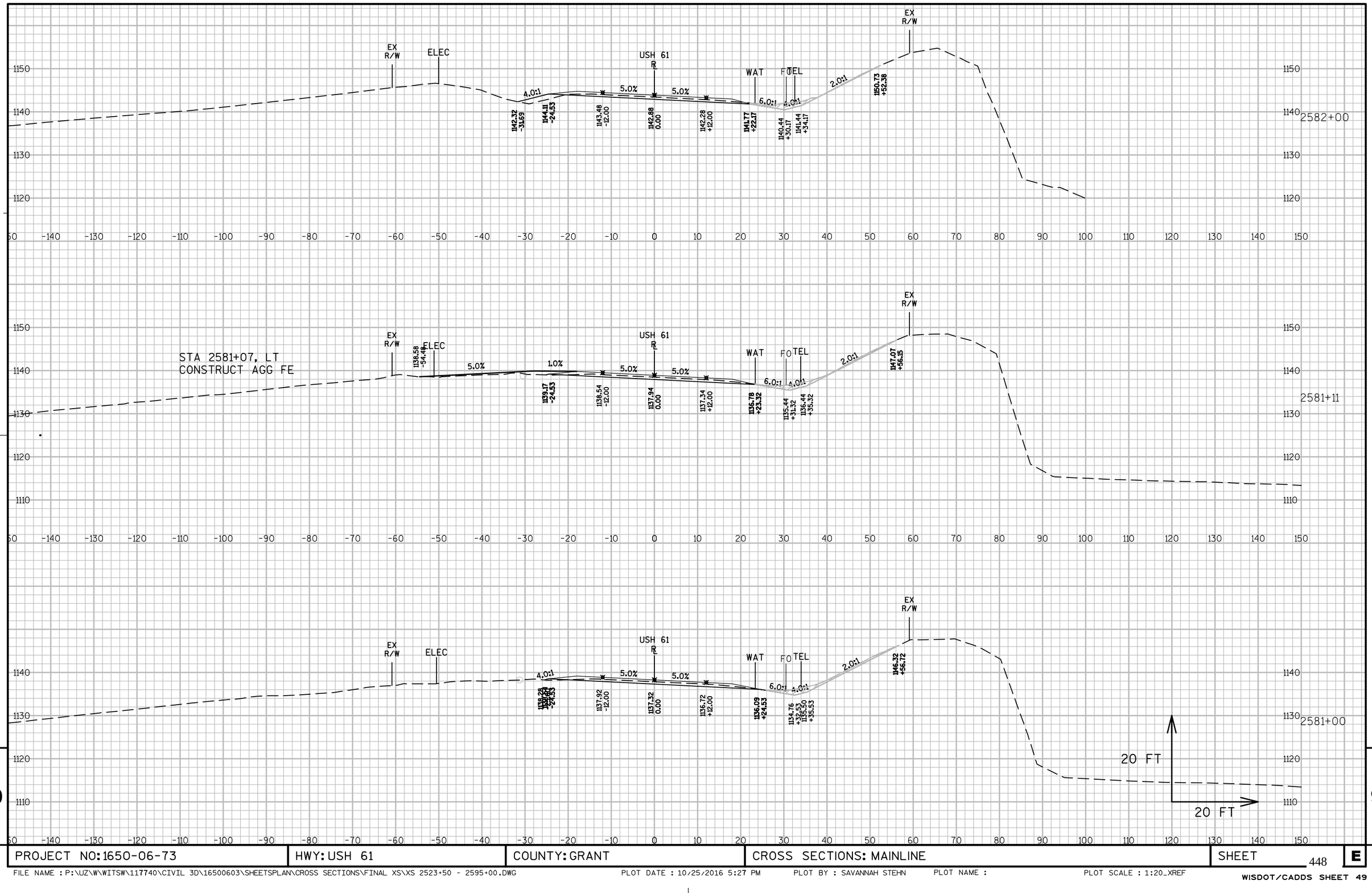
FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:26 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 447	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:26 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

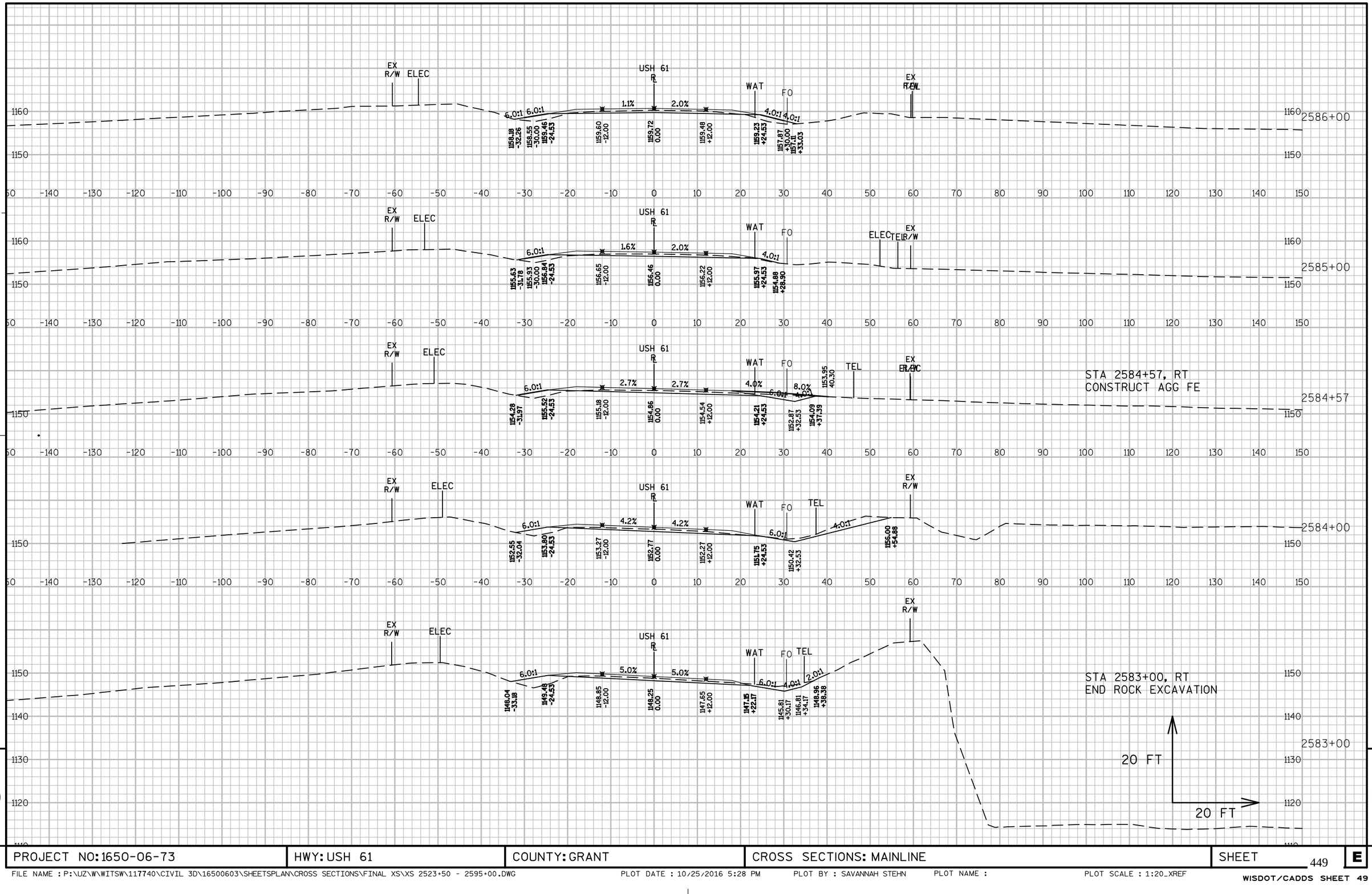
WISDOT/CADDS SHEET 49



9

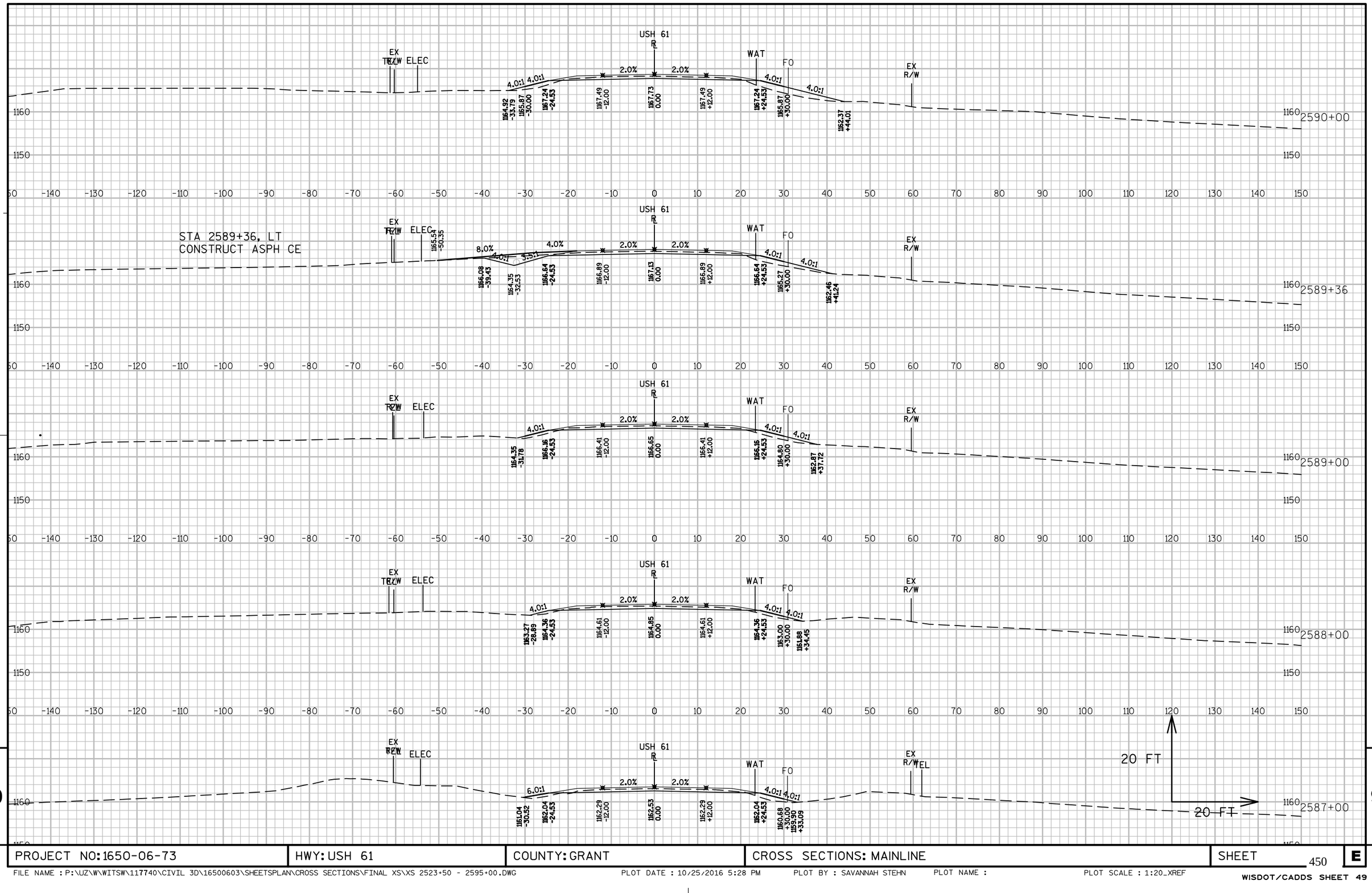
9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 448	E



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 449 E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:28 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

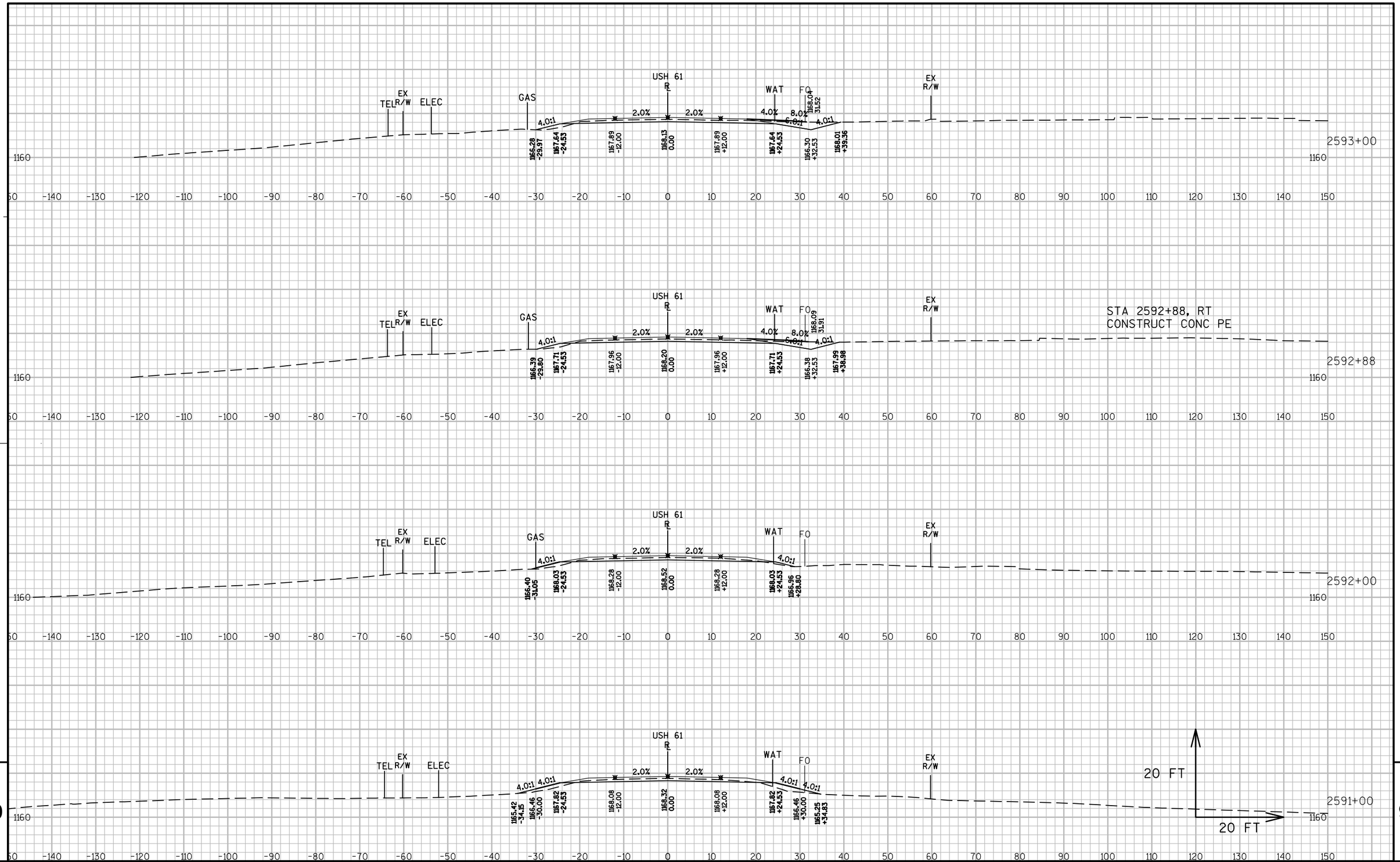


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 450	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/25/2016 5:28 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

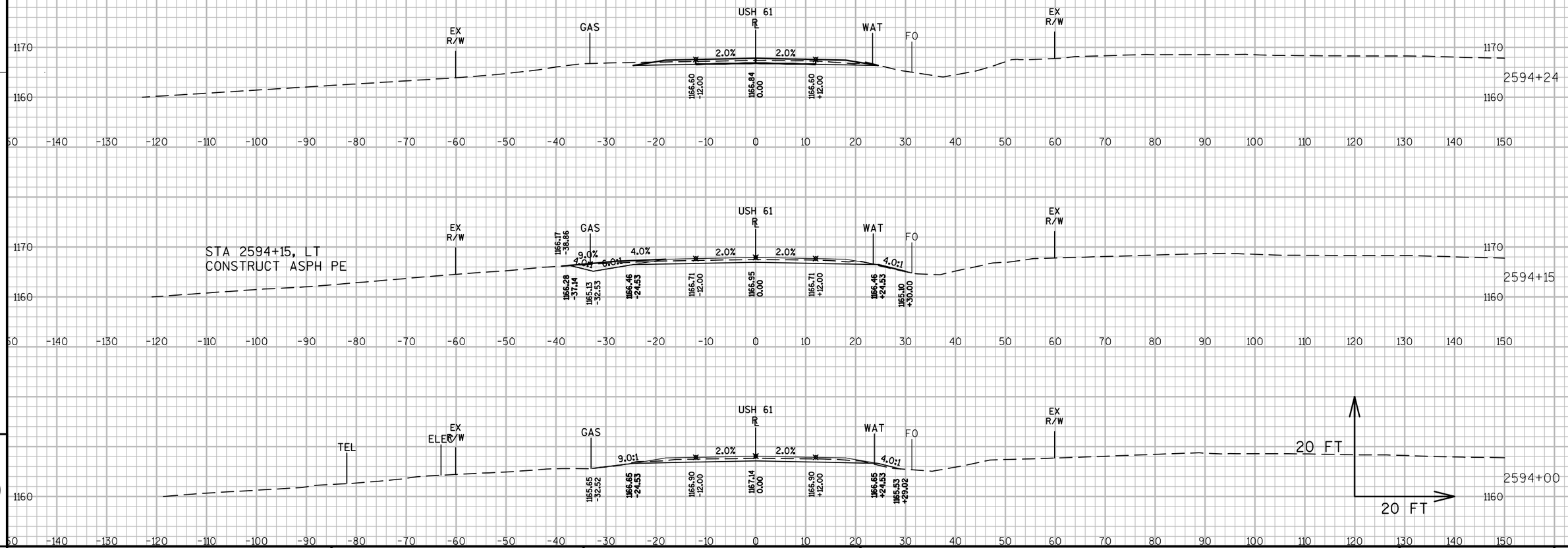


9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 451	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/26/2016 5:09 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

END PROJECT
STA 2594+24.00



STA 2594+15, LT
CONSTRUCT ASPH PE

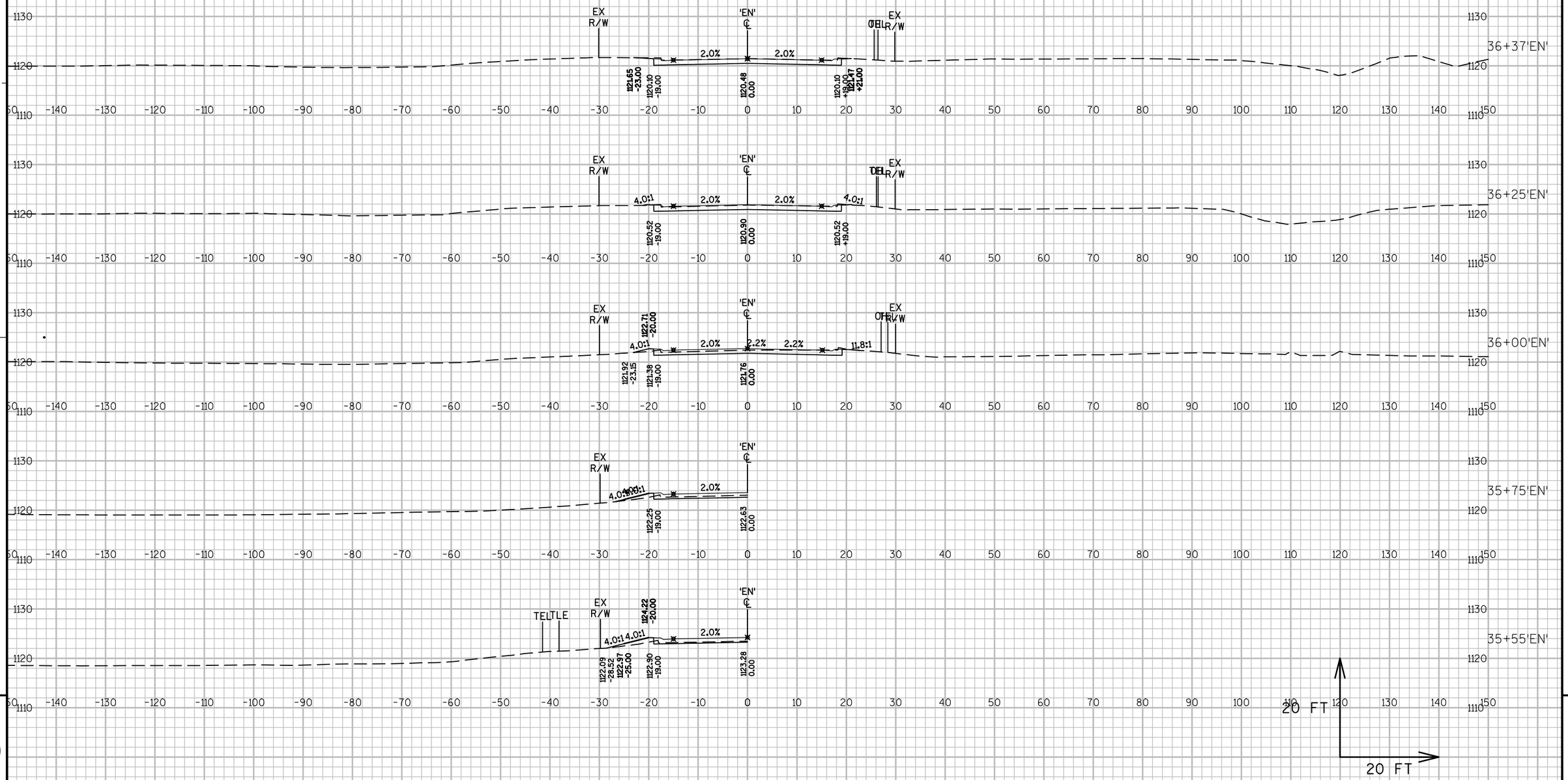
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MAINLINE	SHEET 452	E

FILE NAME : P:\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\CROSS SECTIONS\FINAL XS\XS 2523+50 - 2595+00.DWG PLOT DATE : 10/26/2016 5:11 PM PLOT BY : SAVANNAH STEHN PLOT NAME : PLOT SCALE : 1:20_XREF

END CONSTRUCTION
STA 36+37.00'EN'

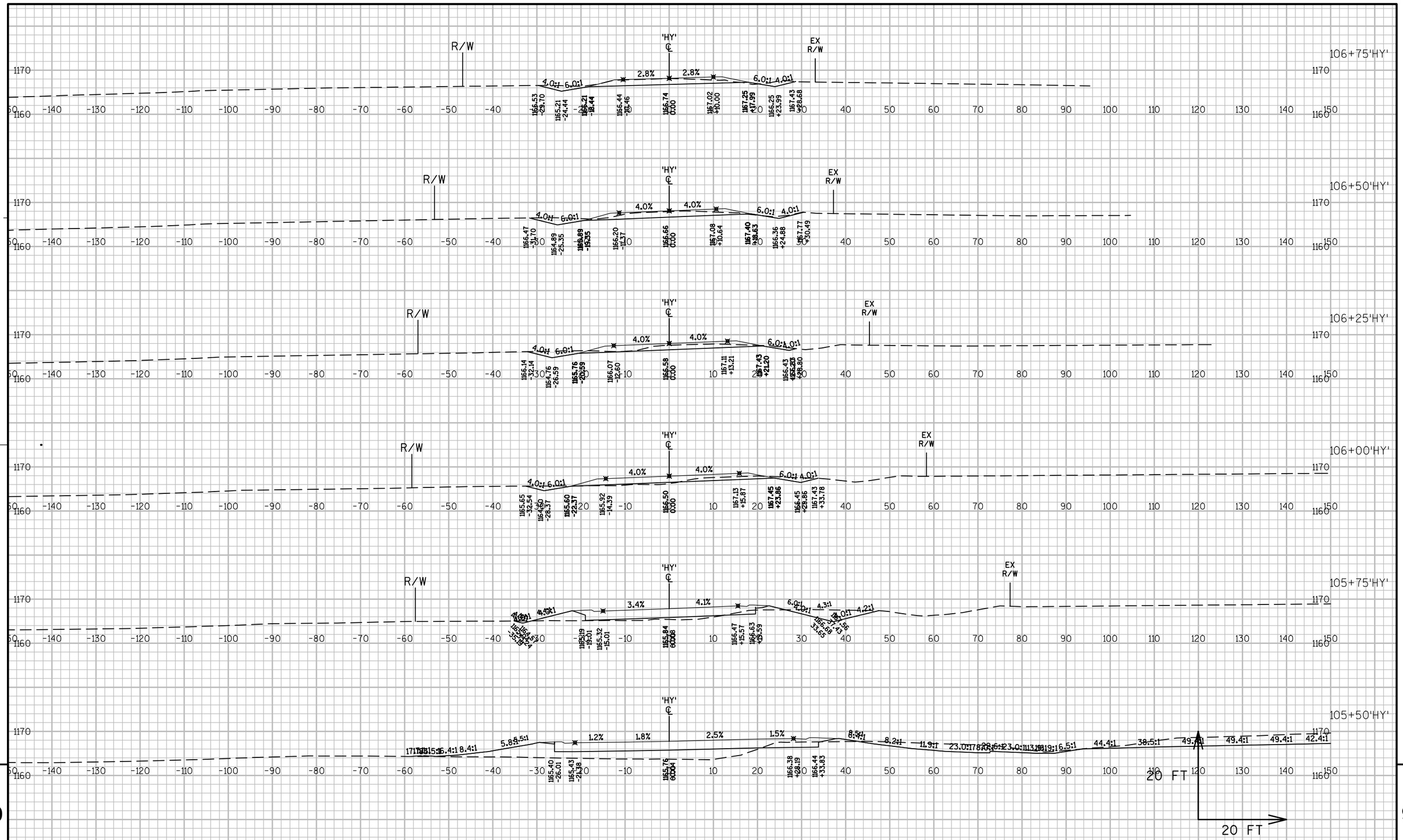


9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: ENTERPRISE ST	SHEET 453	E

FILE NAME : \\SEHMADISON\PROJECTS\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090108_XS-ENTERPRISE ST.DWG PLOT DATE : 7/26/2016 12:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

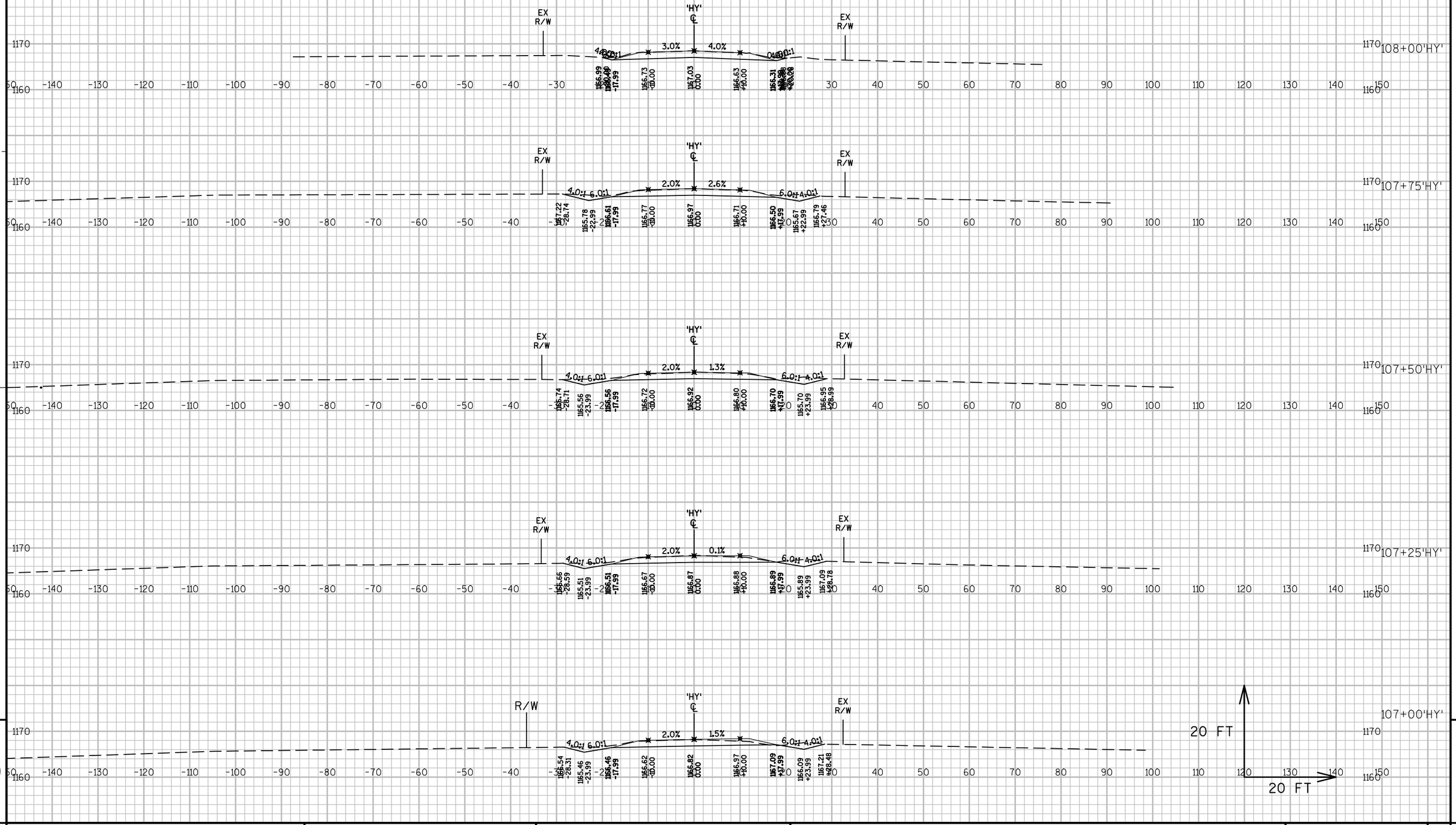


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: HYPOINT RD	SHEET 454	E

FILE NAME : \\SEHMADISON\PROJECTS\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090102_XS-HYPOINT RD.DWG PLOT DATE : 7/26/2016 12:09 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

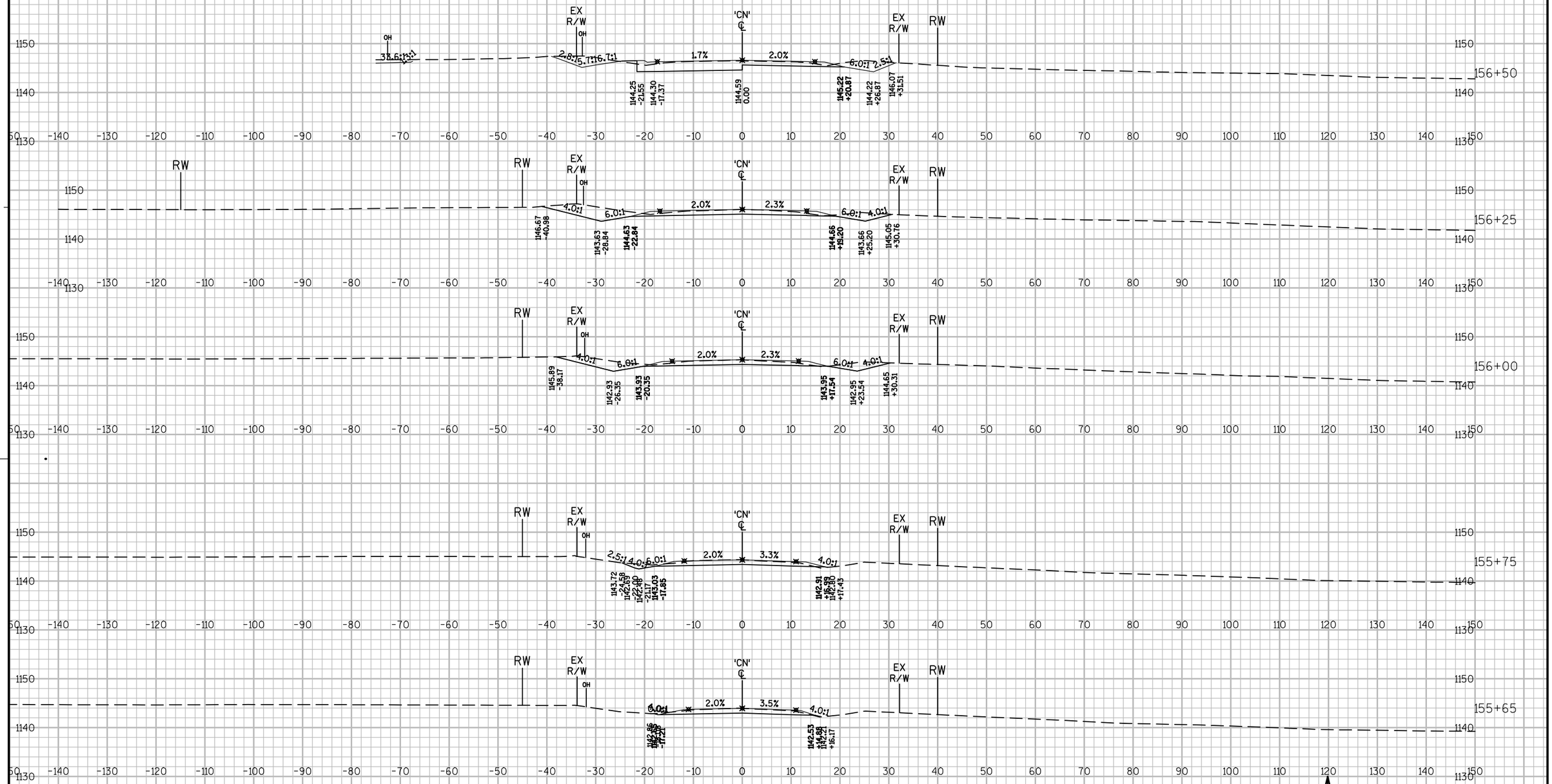
END CONSTRUCTION
STA 108+00.00 'HY'



9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: HYPOINT RD	SHEET 455	E

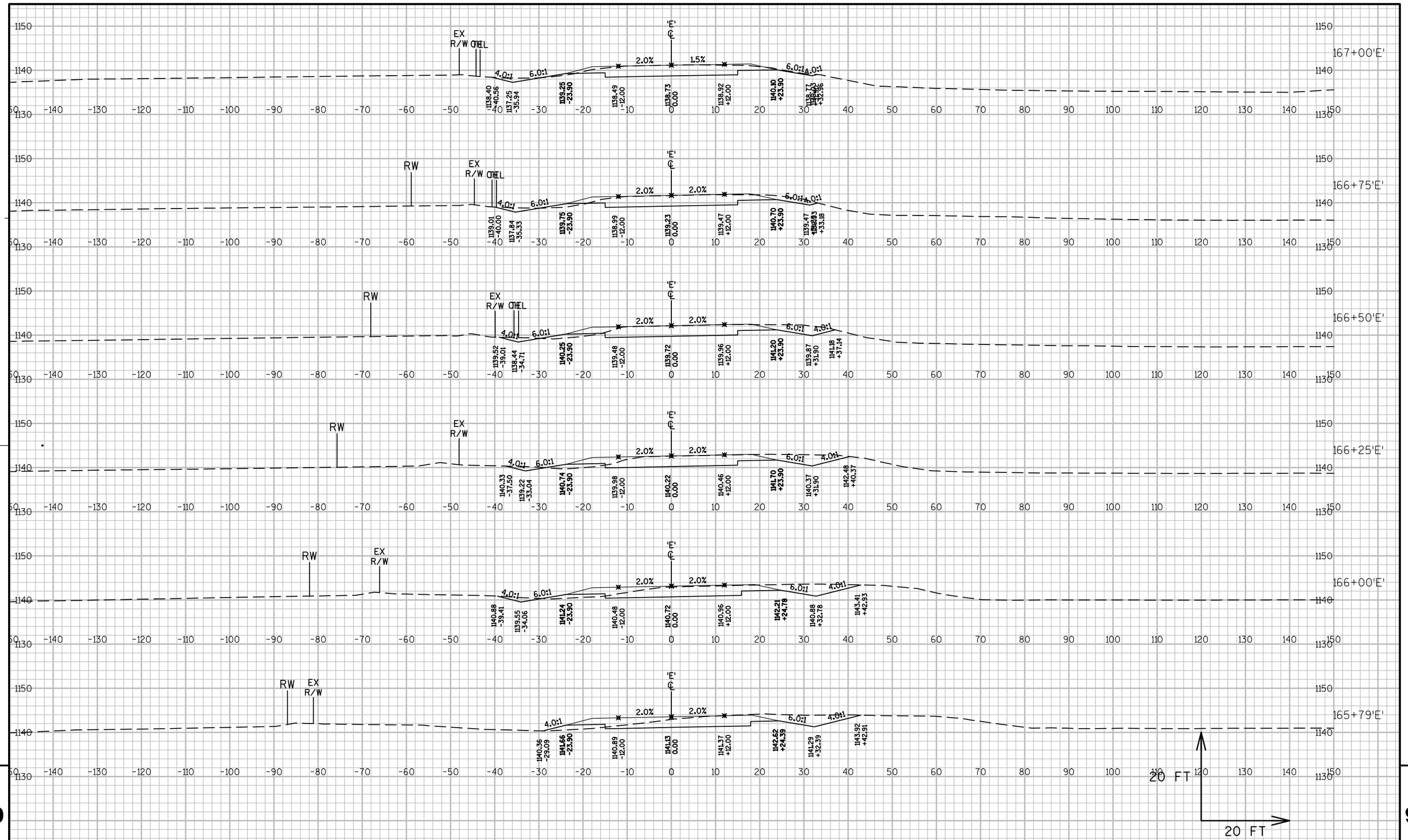


BEGIN CONSTRUCTION
STA 155+65'CN'

9

9

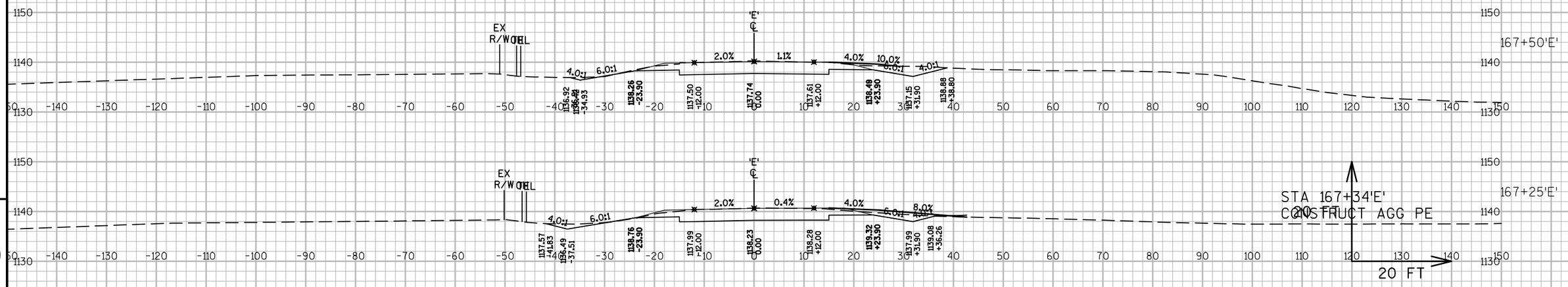
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: CIRCLE RD	SHEET 456	E



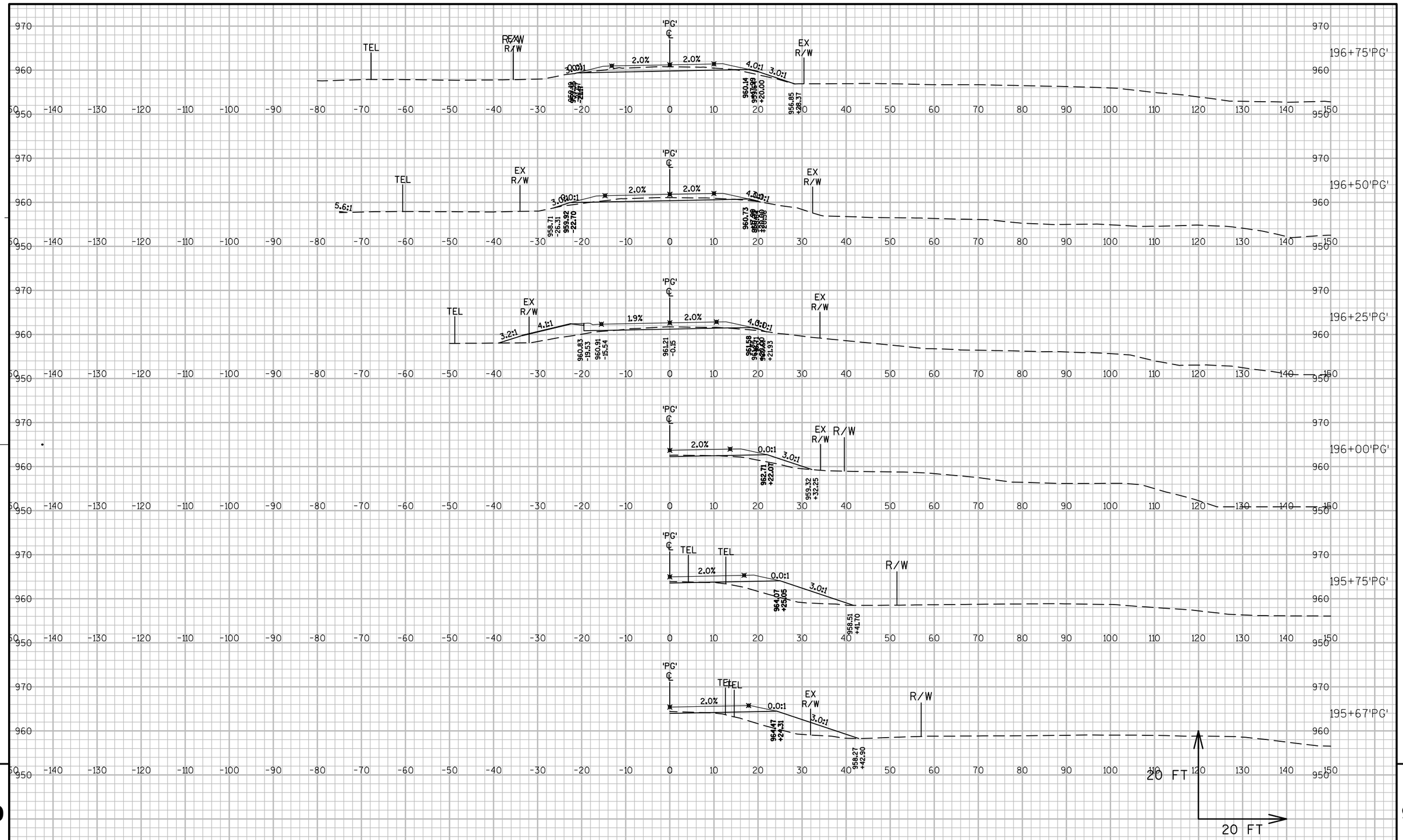
PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: CTH E	SHEET 457	E

FILE NAME : \\SEHMADISON\PROJECTS\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090104_XS-CTH E.DWG PLOT DATE : 7/26/2016 12:10 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

END CONSTRUCTION
STA 167+65.00 'E'



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: CTH E	SHEET 458	E



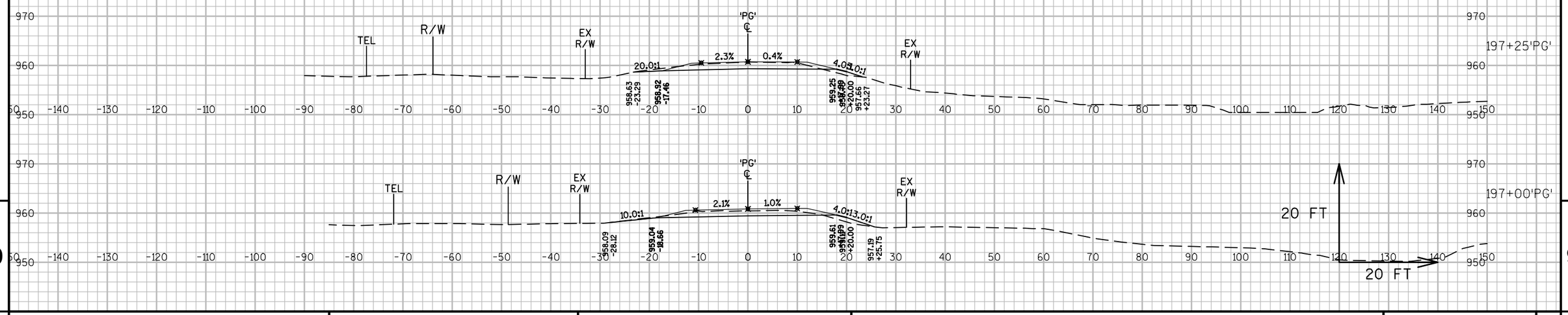
9

9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: PINE GROVE RD	SHEET 459	E

FILE NAME : \\SEHMADISON\PROJECTS\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090106_XS-PINE GROVE RD.DWG PLOT DATE : 7/26/2016 12:14 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

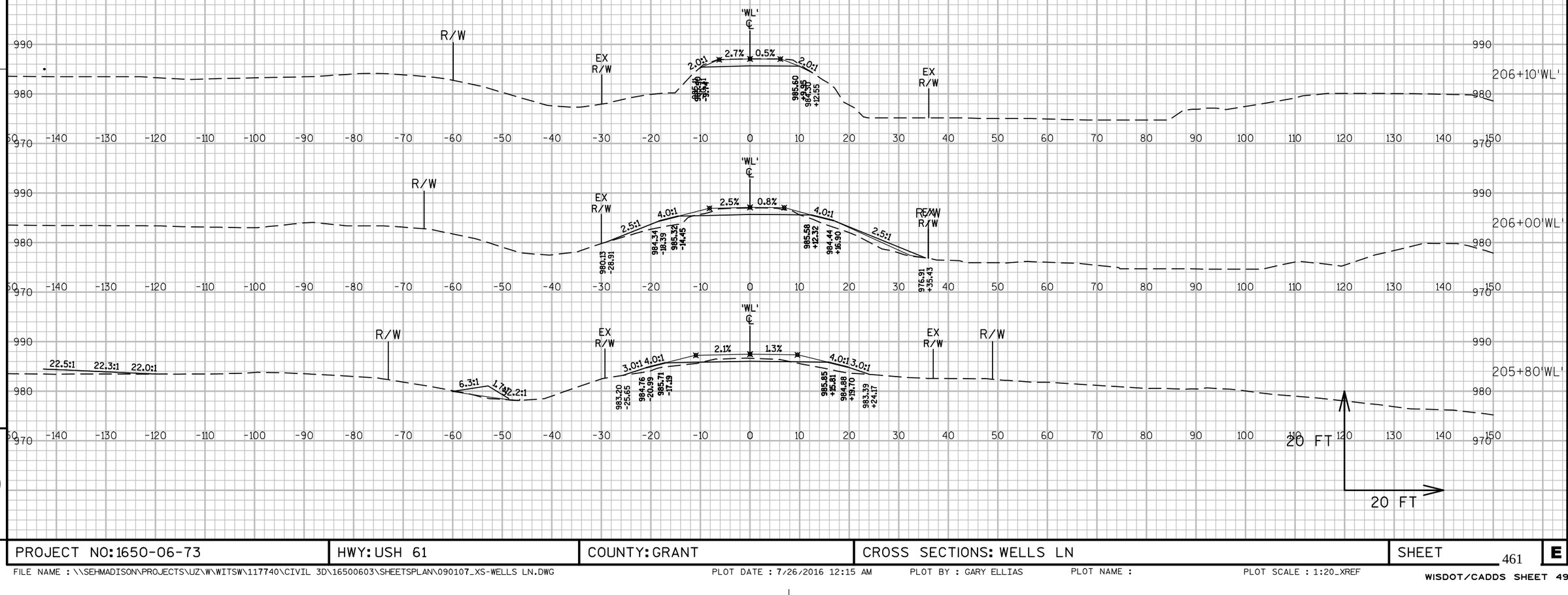
END CONSTRUCTION
STA 197+45.00 'PG'



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: PINE GROVE RD	SHEET 460	E

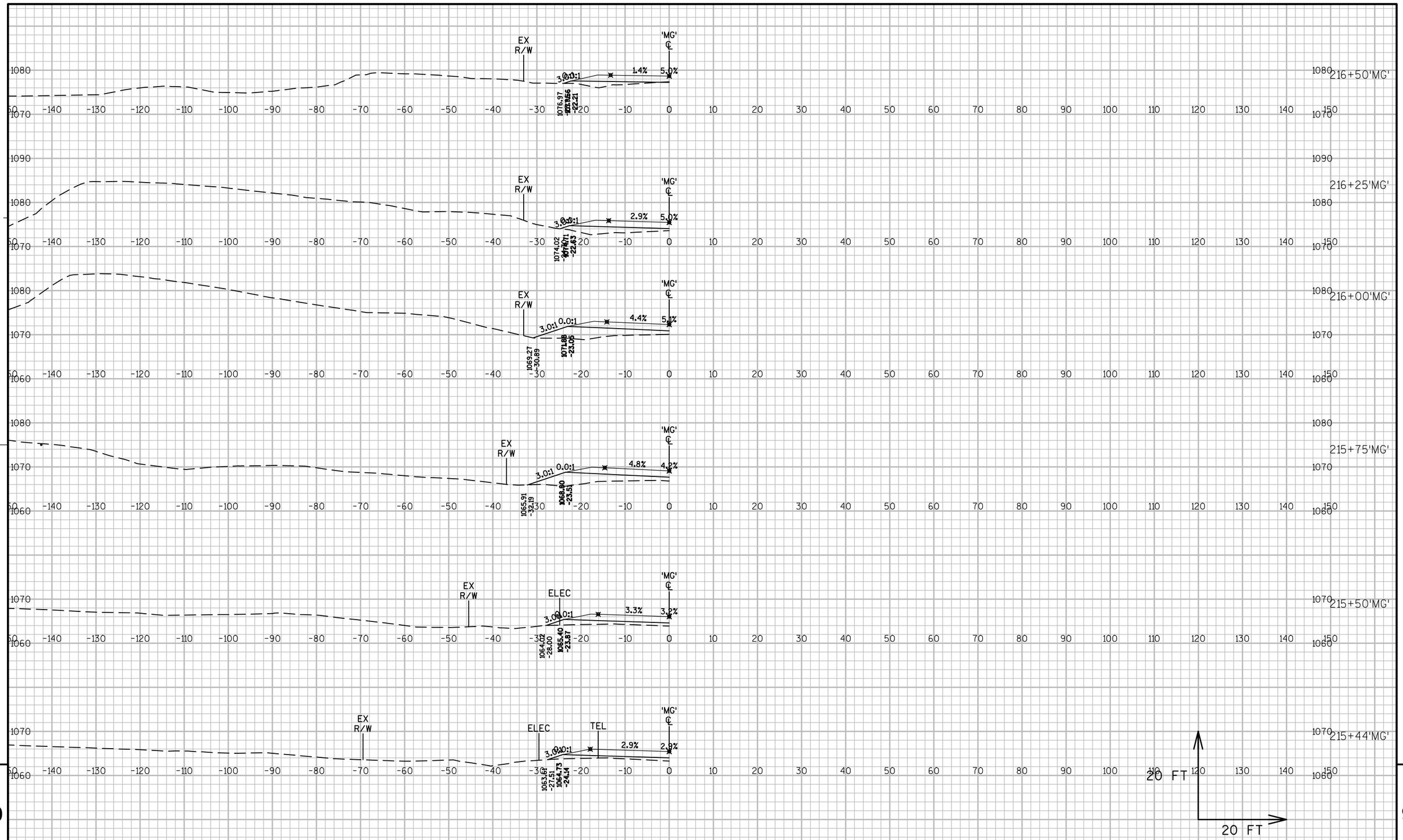
END CONSTRUCTION
STA 206+14.67 'WL'



PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: WELLS LN	SHEET 461	E

FILE NAME : \\SEHMADISON\PROJECTS\UZ\W\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090107_XS-WELLS LN.DWG PLOT DATE : 7/26/2016 12:15 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

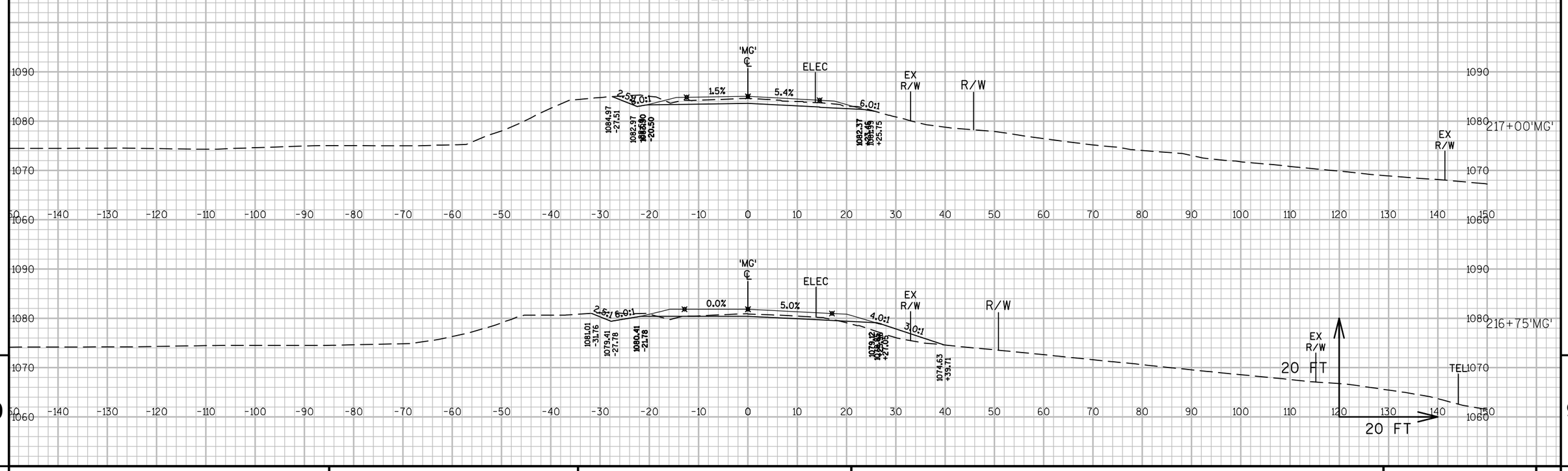


PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MCGHAN RD	SHEET 462	E

FILE NAME : \\SEHMADISON\PROJECTS\UZW\WITSW\117740\CIVIL 3D\16500603\SHEETSPLAN\090109_XS-MCGHAN RD.DWG PLOT DATE : 7/26/2016 12:18 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 217+125.48'MG'



9 9

PROJECT NO: 1650-06-73	HWY: USH 61	COUNTY: GRANT	CROSS SECTIONS: MCGHAN RD	SHEET 463	E

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov