DECEMBER 2016 FEDERAL PROJECT STATE PROJECT STATE OF WISCONSIN PROJECT ORDER OF SHEETS CONTRACT WISC 2016491 1580-29-70 Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities ₽ PLAN OF PROPOSED IMPROVEMENT Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 **PRENTICE - BRADLEY** C -080 Section No. 9 Computer Earthwork Data **MILLER ROAD - LUSTILA ROAD** Section No. 9 Cross Sections USH 8 29-TOTAL SHEETS = 238 **PRICE** STATE PROJECT NUMBER 1580-29-70 END PROJECT STA 816+50 KNEWTSON USH 8 NYBERG HILL Prentice 36 BEGIN PROJECT 6 STA 412+00 OLD 8 I DESIGN DESIGNATION USH 8 A.A.D.T. = 3,100 X=788199.60 A.A.D.T. = 4,100 Y=390930.61 = 1,042 D-H-V-= 61/39 Little Priens = 10.5% DESIGN SPEED = 55 MPH **ESALS** = 1,160,700 GOETZKE RD CONVENTIONAL SYMBOLS R C PLAN PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) R-1-E | R-2-E LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION SLOPE INTERCEPT CULVERT (Profile View) PREPARED BY UTILITIES EMCS, INC REFERENCE LINE Surveyor ELECTRIC KAI M. KILEN EXISTING CULVERT FIBER OPTIC MICHAEL G. GRAGE PROPOSED CULVERT CHERYL L. SIMON (Box or Pipe) SANITARY SEWER ROBIN W. STAFFORD COMBUSTIBLE FLUIDS STORM SEWER 1 MILE SCALE L TELEPHONE MARSH AREA HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY ATE: 7/28/2016 UTILITY PEDESTAL COORDINATES, PRICE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. TOTAL NET LENGTH OF CENTERLINE = 7.66 MI POWER POLE Ø WOODED OR SHRUB AREA TELEPHONE POLE Ε FILE NAME : \\RHIRTOPFLPPIO1\N3PUBLIC\PDS\C3D\15802930\\SHEETSPLAN\010101\_TI.DWG LAYOUT NAME - TITLE SHEET 1 IN EQ 1 MI PLOT DATE: 2/3/2016 5:56 AM PLOT BY : KILEN, KAI M PLOT NAME : WISDOT/CADDS SHEET 10

### **UTILITIES**

### **CENTURYLINK - COMMUNICATION**

JIM ARQUETTE PO BOX 14

SHELDON, WI 54766

PHONE: (715) 452-5168 WORK PHONE: (715) 563-8295 MOBILE

E-MAIL: JIM.ARQUETTE@CENTURYLINK.COM

### **NORTHERN NATURAL GAS COMPANY - GAS**

JEFF TELKER 1995 NNG ROAD CARLTON, MN 55718

PHONE: (402) 530-3466 WORK
PHONE: (218) 348-3470 MOBILE
E-MAIL: JEFF.TELKER@NNGCO.COM

### **PACKERLAND BROADBAND - COMMUNICATION**

RANDY SIMMS PO BOX 885

IRON MOUNTAIN, MI 49801 PHONE: (906) 282-3802 MOBILE

E-MAIL: RANDY.SIMMS@CCISYSTEMS.COM

### PRICE COUNTY TELEPHONE - COMMUNICATION

JEFF HALLSTRAND 105 N AVON AVE PHILLIPS, WI 54555

PHONE: (715) 739-2151 WORK
PHONE: (715) 820-1816 MOBILE
E-MAIL: JALLSTRANDJ@PCTCNET.NET

PRICE ELECTRIC COOP - ELECTRICITY

BEN ORYSEN 508 N LAKE AVE PHILLIPS, WI 54555

PHONE: (715) 339-2155 WORK PHONE: (715) 820-0200 MOBILE

E-MAIL: BORYSEN@PRICE-ELECTRIC.COM

### **XCEL ENERGY - ELECTRICITY**

ANDY HALOPKA 310 HICKORY HILLS LANE PHILLIPS, WI 54555

PHONE: (715) 737-2678 WORK PHONE: (715) 316-1356 MOBILE

E-MAIL: A.HALOPKA@XCELENERGY.COM

### **XCEL ENERGY - TRANSMISSION**

CHARLES DIENGER
1414 WEST HAMILTON

PO BOX 8

EAU CLAIRE, WI 54702

PHONE: (651) 955-1089 MOBILE

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

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

MILLING DEPTH INDICATED ON PLAN SHEETS IS THE APPROXIMATE DEPTH AT CENTER OR REFERENCE LINE.

MILL THE CROSS SLOPE AS SPECIFIED ON THE PLAN SHEETS. IT IS POSSIBLE THAT NOT

ALL OF THE ROADWAY SURFACE WILL BE MILLED. AFTER MILLING PREPARE THE ROADWAY

SURFACE FOR PAVING UNDER THE PREPARE FOUNDATION FOR ASPHALTIC PAVING BID ITEM.

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.

4 1/2-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN TWO LAYERS. THE UPPER LAYER SHALL BE 2.0 INCHES HMA PAVEMENT 4 LT 58-28 S. THE LOWER LAYER SHALL BE 2.5 INCHES HMA PAVEMENT 3 LT 58-28 S.

4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN TWO LAYERS.
THE UPPER LAYER SHALL BE 2.0 INCHES HMA PAVEMENT 4 LT 58-28 S.
THE LOWER LAYER SHALL BE 2.0 INCHES HMA PAVEMENT 3 LT 58-28 S.

6 1/4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN THREE LAYERS THE UPPER LAYER SHALL BE 2.0 INCHES HMA PAVEMENT 4 LT 58-28 S.

THE LOWER LAYERS SHALL BE 2.00 & 2.25 INCHES HMA PAVEMENT 3 LT 58-28 S.

# DNR

### **SHAWN HASELEU**

810 W MAPLE STREET SPOONER, WI 54801

PHONE: (715) 635-4228 WORK

E-MAIL: SHAWN.HASELEU@WISCONSIN.GOV

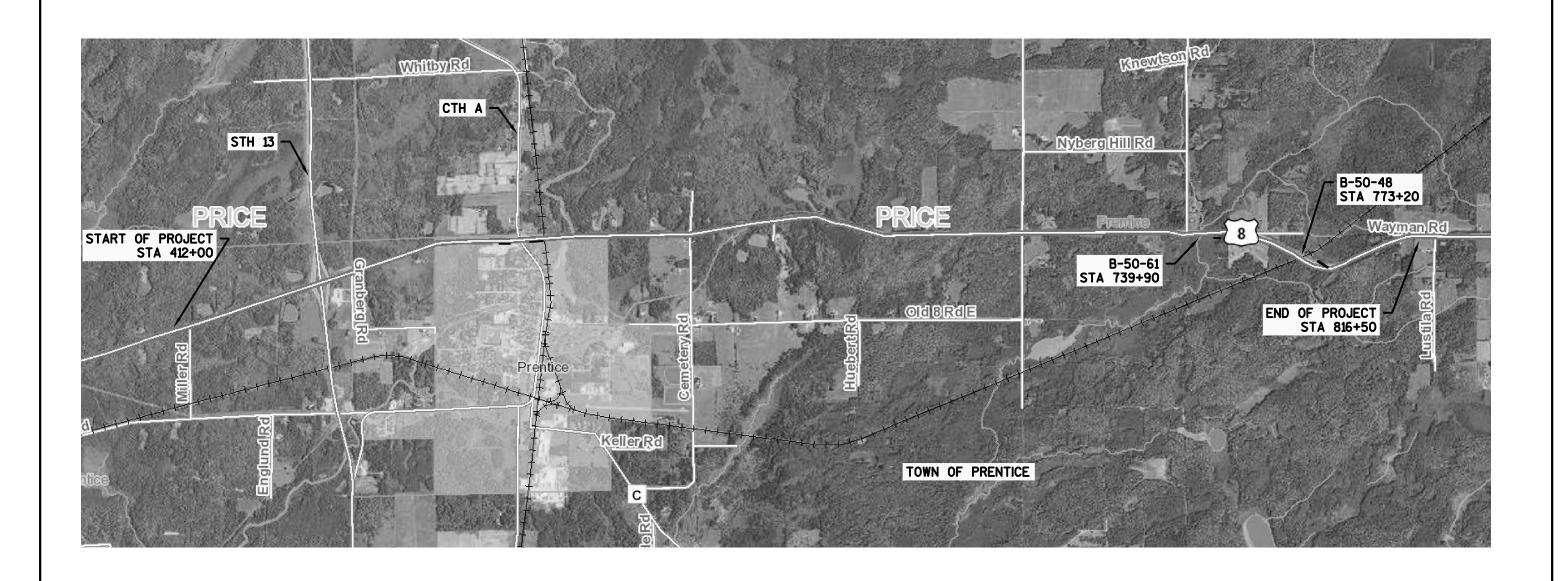
PAVEMENT BORINGS		
Location	Offset	HMA Pavement
420+55	7.0' LT	4.5"
435+88	6.0' RT	4.5"
451+53	4.0' LT	8.75"
468+00	4.5' LT	7.25"
482+50	6.0' LT	4.5"
497+97	5.0' RT	4.0"
513+74	5.0' LT	4.5"
528+97	5.5' RT	3.5"
544+57	6.0' LT	4.75"
560+12	6.0' RT	4.5"
575+53	6.0' LT	6.0"
591+14	5.5' RT	4.0"
606+90	6.0' LT	5.75"
621+88	6.5' RT	4.5"
637+46	5.0' LT	6.0"
653+07	6.0' RT	3.75"
668+60	6.0' LT	6.0"
683+90	5.5' RT	5.0"
699+25	7.5' LT	4.5"
715+04	5.5' RT	5.0"
730+36	5.5' LT	4.5"
746+18	5.5' RT	14.0"
762+33	6.0' LT	8.5"
777+23	5.5' RT	6.75"
792+52	5.5' LT	14.0"
807+89	5.5' RT	12.5"

ALL LOCATIONS AND OFFSETS ARE APPROXIMATE. OFFSET IS FROM EXISTING CENTERLINE.



PROJECT NO: 1580-29-70 HWY USH 8 COUNTY: PRICE GENERAL NOTES SHEET: **E** 

FILE NAME : \_\_\_\_\_\_ PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1



PROJECT NO:1580-29-70

HWY: USH 8

COUNTY: PRICE

PROJECT OVERVIEW

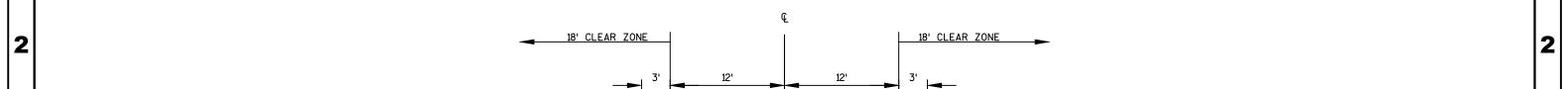
PLOT BY : KILEN, KAI M

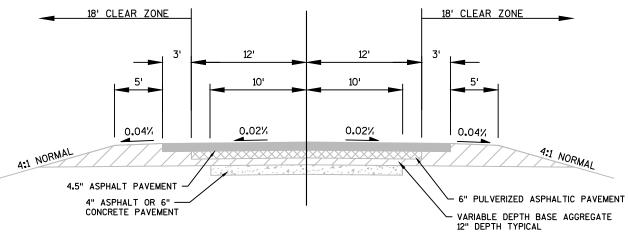
SHEET

PLOT SCALE : 1 IN:750 FT

HEET

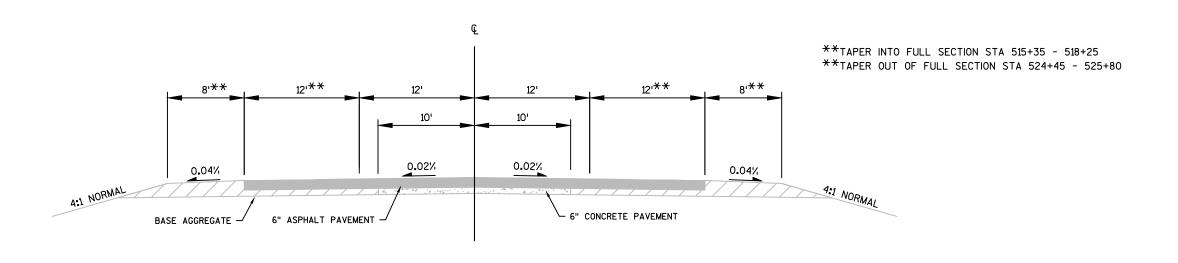
E





### EXISTING TYPICAL SECTION

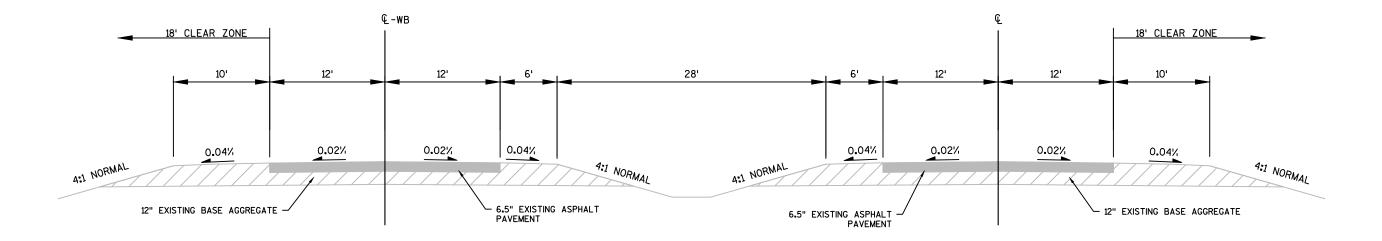
STA 412+00 TO STA 440+00 STA 472+42 TO STA 516+35 STA 525+80 TO STA 739+50



EXISTING TYPICAL SECTION

STA 515+35 TO STA 525+80

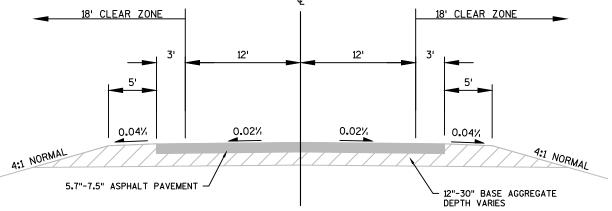
PROJECT NO:1580-29-70 HWY: USH 8 COUNTY: PRICE TYPICAL SECTIONS SHEET E FILE NAME: \\RHIRTOPFLPPI01\\N3PUBLIC\PD\$\C3D\15802930\\SHEET\$PLAN\020300\_TS.DWG PLOT DATE: 3/31/2016 6:23 AM PLOT BY : KILEN, KAI M PLOT NAME : PLOT SCALE : 1 IN:10 FT



EXISTING TYPICAL SECTION
STA 440+00 TO STA 473+50

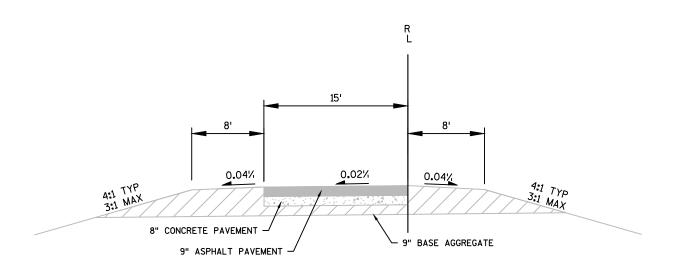
PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE TYPICAL SECTIONS SHEET E

2 8' CLEAR ZONE 18' CLEAR ZONE



EXISTING TYPICAL SECTION

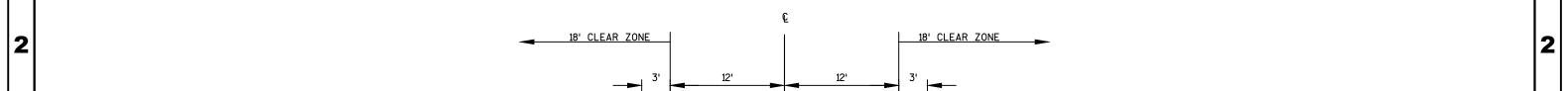
STA 740+30 TO STA 816+50

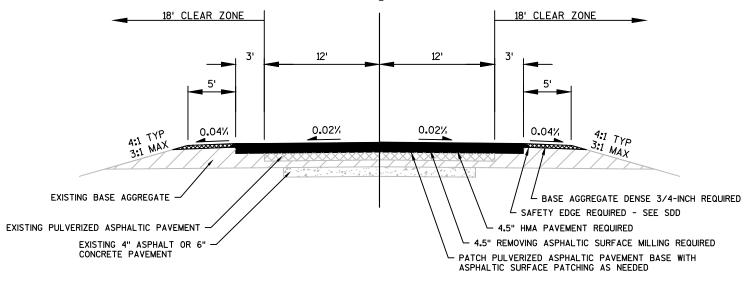


EXISTING TYPICAL RAMP SECTION

USH 8 @ STH 13

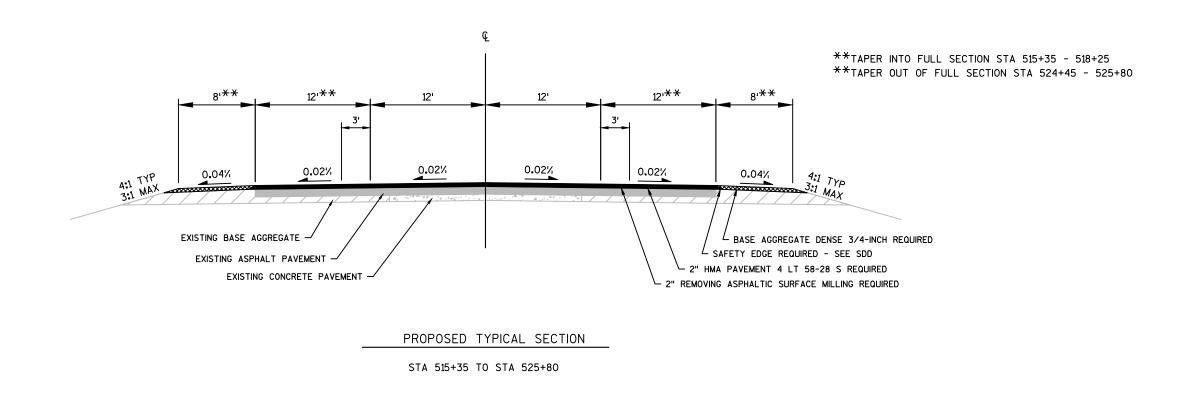
PROJECT NO:1580-29-70 HWY: USH 8 COUNTY: PRICE TYPICAL SECTIONS SHEET E





### PROPOSED TYPICAL SECTION

STA 412+00 TO STA 436+60 STA 476+60 TO STA 515+35 STA 542+00 TO STA 739+50



FILE NAME : \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\15802930\SHEETSPLAN\020300\_TS.DWG

HWY: USH 8

PROJECT NO:1580-29-70

COUNTY: PRICE

TYPICAL SECTIONS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

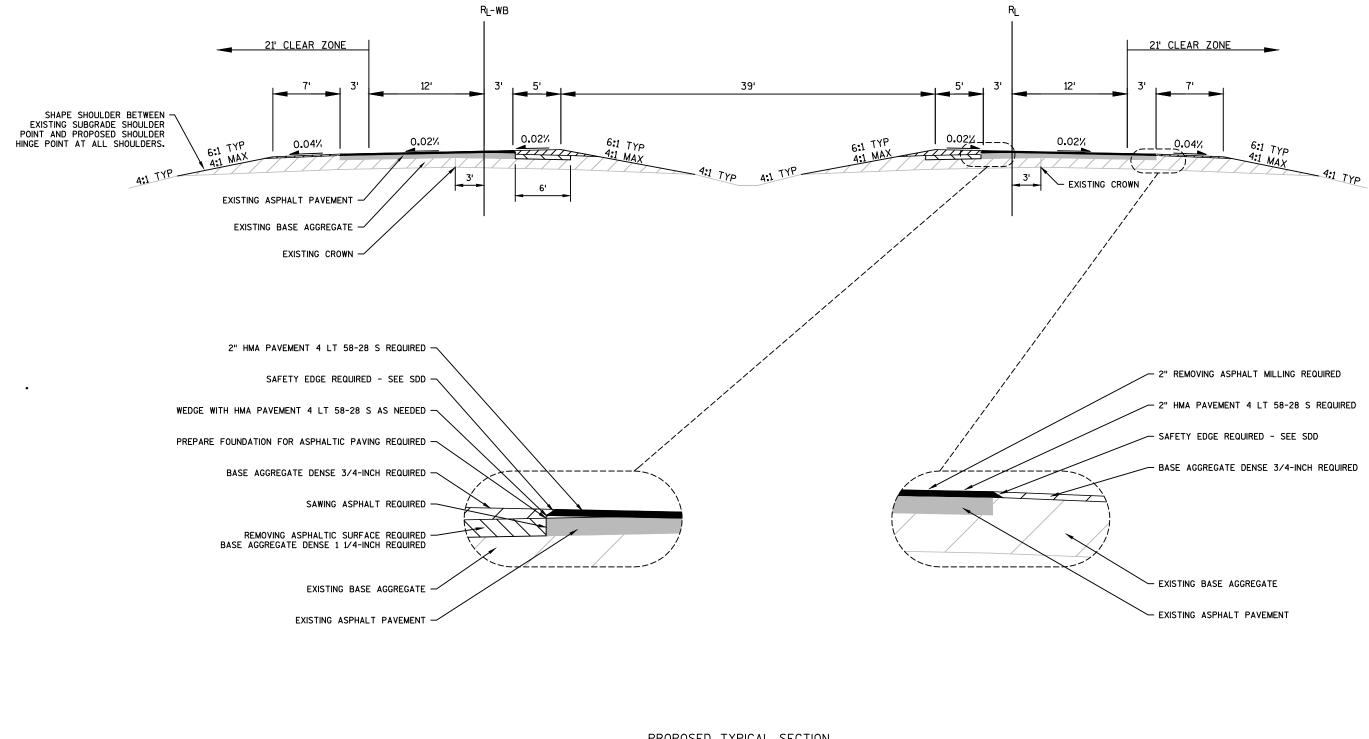
E

SHEET

PLOT DATE: 10/7/2016 8:00 AM

PLOT BY : KILEN, KAI M

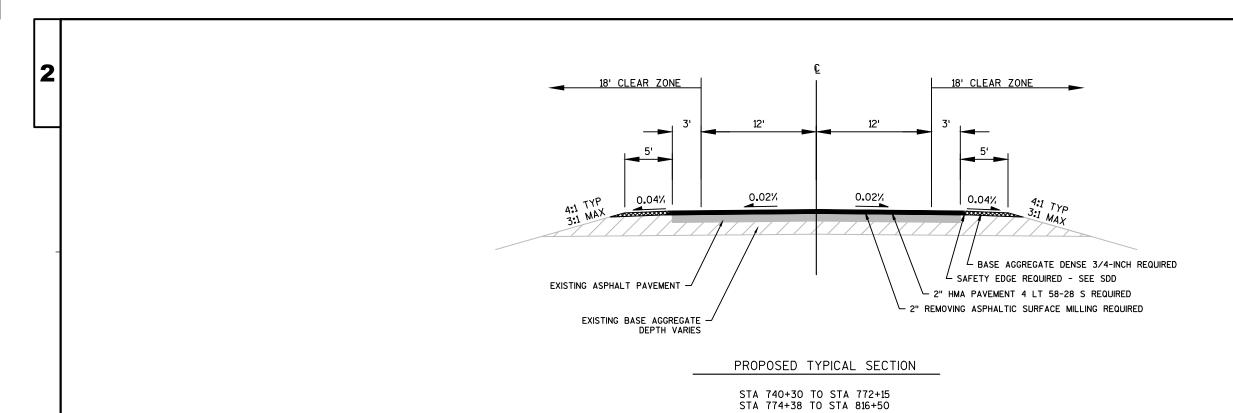


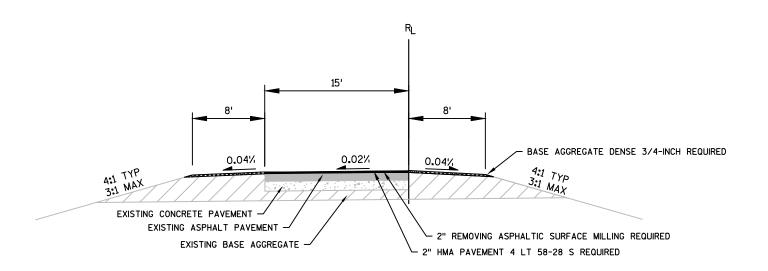


PROPOSED TYPICAL SECTION

STA 436+60 TO STA 476+50

COUNTY: PRICE E PROJECT NO:1580-29-70 HWY: USH 8 TYPICAL SECTIONS SHEET

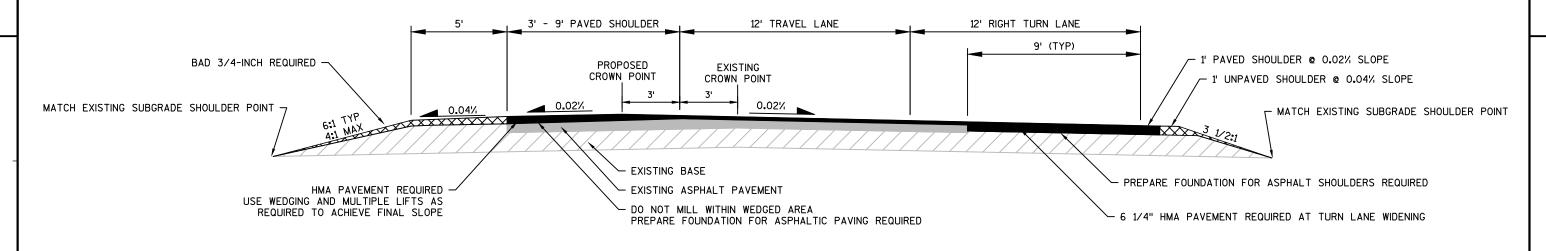




PROPOSED TYPICAL RAMP SECTION USH 8 @ STH 13

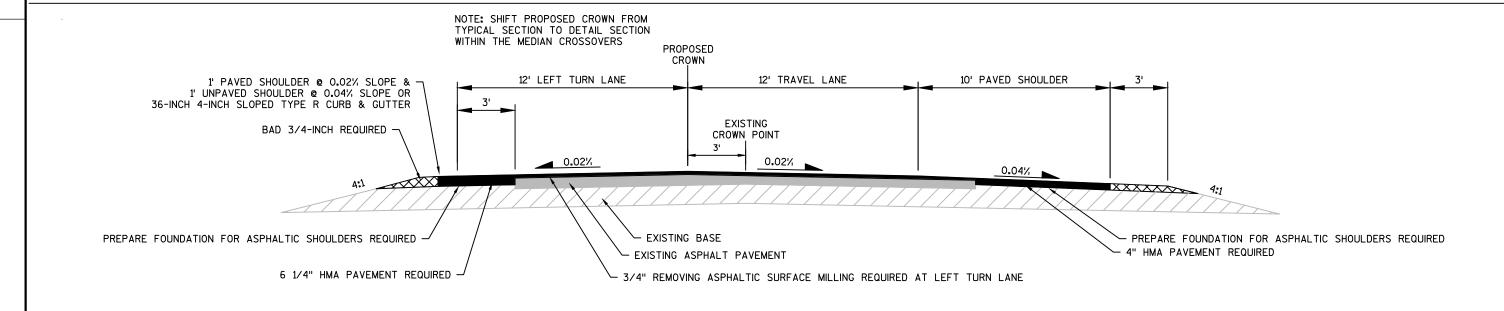
PROJECT NO:1580-29-70 HWY: USH 8 COUNTY: PRICE SHEET E TYPICAL SECTIONS PLOT NAME :





## STH 13 INTERCHANGE RIGHT TURN LANE DETAIL

STH 13 SB ON RAMP STH 13 NB ON RAMP GRANBERG ROAD



# STH 13 INTERCHANGE LEFT TURN LANE DETAIL

STA 454+50 - 459+00

PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE CONSTRUCTION DETAILS

FILE NAME:\\RHIRTOPFLPPIO1\\N3PUBLIC\PDS\\C3D\\15802930\\SHEETSPLAN\\021001-CD.DWG

PLOT DATE: 6/20/2016 11:14 AM PLOT BY: KILEN, KAI M PLOT NAME: PLOT SCALE: 1 IN:5 FT WISDOT/CADDS SHEET 42

NOTE: AT STH 13 ON RAMPS INCLUDE 4' WIDE EARTHEN TERRACE BEHIND CURB AT +0.04'/ SLOPE

EXTEND EXCAVATION TO TIE INTO EXISTING
SOIL WHERE NEEDED

BACKFILL, TOPSOIL, FERTILIZE,
SEED, AND EMAT DISTURBED SOIL

NEW CURB & GUTTER TYPE INDICATED ON PLAN
RECONSTRUCT IN EXISTING LOCATION UNLESS NOTED OTHERWISE

2" UPPER LAYER PAVED
INTEGRALLY WITH INTERSECTION

EXISTING HMA PAVEMENT

EXISTING BAD

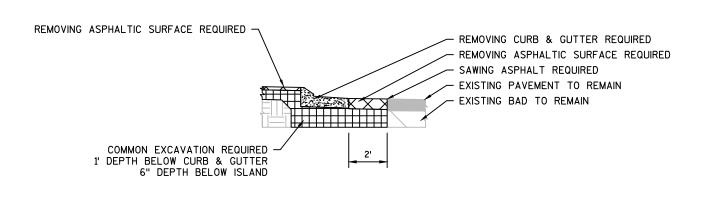
HMA PAVEMENT REQUIRED
6 1/4" OVERALL DEPTH AT STH 13 RAMPS
MATCH EXISTING DEPTH GRANBERG ROAD AND CTH A INTERSECTIONS (6 1/4" MAX)

12" - BAD 1 1/4-INCH REQUIRED

COMMON EXCAVATION REQUIRED TO 1' BELOW CURB & GUTTER
REMOVING CURB & GUTTER REQUIRED
REMOVING ASPHALTIC SURFACE REQUIRED
SAWING ASPHALT REQUIRED
EXISTING PAVEMENT TO REMAIN
EXISTING BAD TO REMAIN

TYPICAL CURB & GUTTER REMOVAL DETAIL

TYPICAL CURB & GUTTER REPLACEMENT DETAIL



2" ASPHALTIC SURFACE SAFETY ISLAND

6-INCH SLOPED 30-INCH TYPE J CURB & GUTTER REVERSE SLOPE AT AREA INDICATED ON LAYOUT SHEET

2" UPPER LAYER PAVED
INTEGRALLY WITH INTERSECTION

EXISTING HMA PAVEMENT

6" - BAD 1 1/4-INCH UNDER

EXISTING BAD

HMA PAVEMENT REQUIRED - MATCH EXISTING DEPTH

12" - BAD 1 1/4-INCH UNDER NEW

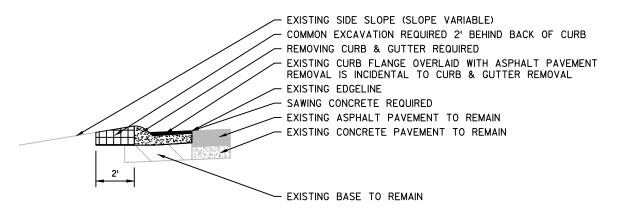
CURB & GUTTER

CTH A ISLAND REMOVAL DETAIL

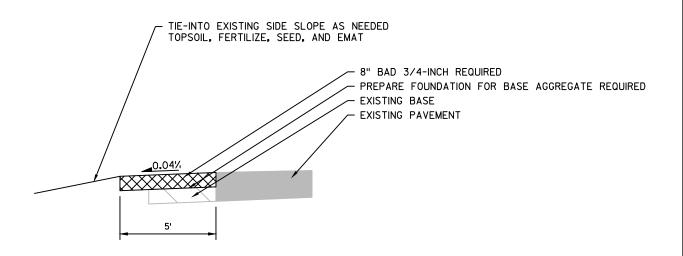
CTH A ISLAND REPLACEMENT DETAIL

PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE CONSTRUCTION DETAILS SHEET

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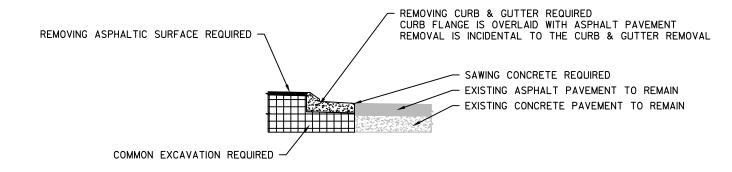


STH 13 OFF RAMP CURB & GUTTER REMOVAL DETAIL

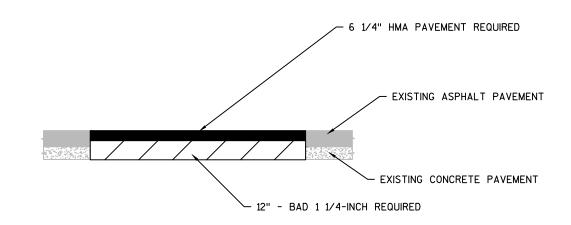


STH 13 OFF RAMP RESTORATION DETAIL

USE AT CURB & GUTTER REMOVAL AREAS



STH 13 OFF RAMP ISLAND REMOVAL DETAIL



STH 13 OFF RAMP ISLAND RESTORATION DETAIL

PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE CONSTRUCTION DETAILS SHEET

NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C

PLACE 1/2 GUTTER THICKNESS HIGH

EMBED 12" INTO EACH ITEM

TIE BARS INCIDENTAL TO

CONCRETE CURB & GUTTER 36-INCH TYPE R

CONCRETE TRUCK APRON 12-INCH — COLORED WISDOT RED SLOPE AWAY FROM CURB AT 1% MINIMUM SHAPE TO ALLOW WATER PASSAGE AT ASPHALTIC FLUMES

12" BAD 1 1/4-INCH UNDER CURB & GUTTER AND CONCRETE APRON -

· 36-INCH 4-INCH SLOPED TYPE R CURB & GUTTER

CONCRETE TRUCK APRON DETAIL

STH 13 INTERCHANGE - SEE PLANSHEETS FOR EXACT LOCATIONS

PROJECT NO: 1581-13-70

HWY:USH 8

COUNTY: PRICE

CONSTRUCTION DETAILS

SHEET

EET E

FILE NAME: \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\15802930\SHEETSPLAN\021001-CD.DWG

PLOT DATE : 7/5/2016 2:31 PM

PLOT BY : KILEN, KAI M PLOT NAME :

2

# VARIABLE - 110' MAX - 50' MIN LIMITS TO BE DETERMINED BY CONTRACTOR BY CONTRACTOR FROUIRED REMOVING PAVEMENT REQUIRED TRANSITION CUT - COMMON EXCAVATION REQUIRED PIPE TRENCH EXCAVATION VARIES

### **CULVERT PIPE TRANSITION**

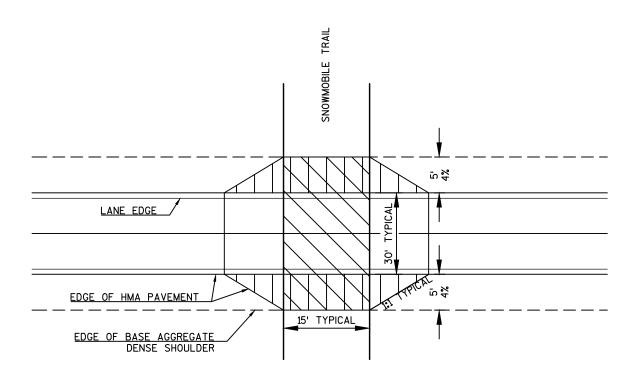
STA 438+75 STA 610+68 STA 658+80

NOTES:
REUSE MATERIAL REMOVED IN TRANSITION CUT AND PIPE
TRENCH EXCAVATIONS AS BACKFILL ABOVE THE LEVEL OF THE
FOUNDATION BACKFILL

PIPE TRENCH EXCAVATION, EXCLUDING TRANSITION CUT IS CONSIDERED INCIDENTAL TO PIPE INSTALLATION. TRANSITION CUT WILL BE PAID FOR AS COMMON EXCAVATION.

TRANSITION CUT WILL BE SHOULDER POINT TO SHOULDER POINT, HALF OF SHOULDER POINT TO SHOULDER POINT EACH SIDE OF CENTERLINE.

APPROXIMATE DEPTH TO FLOWLINE AT USH 8 CENTERLINE: STA 438+75 - 5.3' STA 610+68 - 10.1' STA 658+80 - 8.2'



### SNOWMOBILE TRAIL CROSSING STA 508+30



PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSING



HMA PAVEMENT WIDENING 4.5-INCHES FOR SNOWMOBILE TRAIL CROSSING

NOTE:

PREPARATION FOR PAVEMENT WIDENING FALLS UNDER PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS.

EXACT LOCATIONS TO BE MARKED IN THE FIELD BY THE PROJECT PERSONAL.

PROJECT NO:1580-29-70

HWY: USH 8

COUNTY: PRICE

CONSTRUCTION DETAILS

SHEET

SHEET

ET **E** 

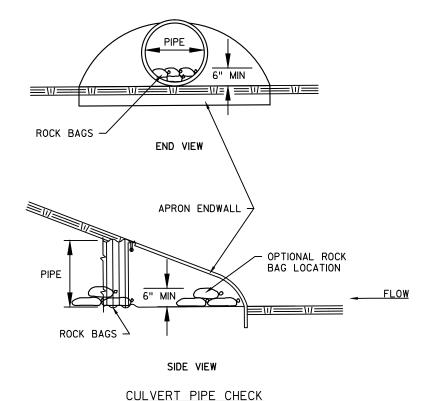
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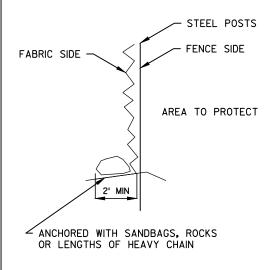
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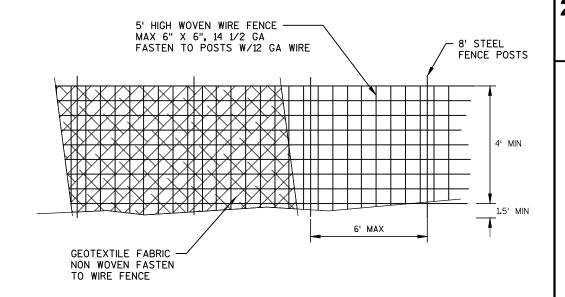
PLOT BY : KILEN, KAI M

PLOT NAME :



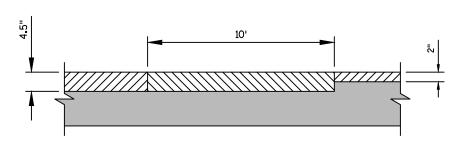






SILT FENCE HEAVY DUTY

USE IN PLACE OF REGULAR
SILT FENCE AS DIRECTED BY
THE ENGINEER



INSTALL ON INLET END ONLY

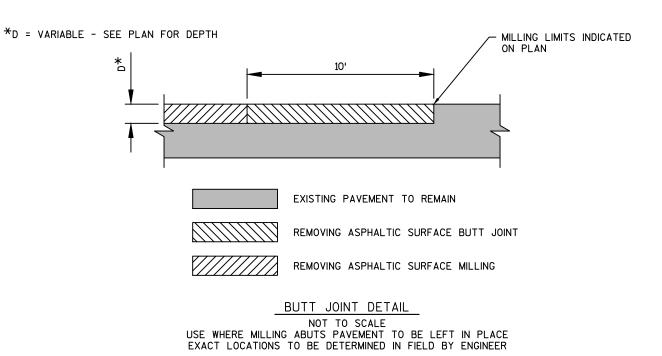
EXISTING PAVEMENT OR PULVERIZED ASPHALT TO REMAIN

REMOVING ASPHALTIC SURFACE BUTT JOINT

REMOVING ASPHALTIC SURFACE MILLING

BUTT JOINT DETAIL

NOT TO SCALE
TRANSITIONS FROM 4 1/2" TO 2" MILLING DEPTH
EXACT LOCATIONS TO BE DETERMINED IN FIELD BY ENGINEER

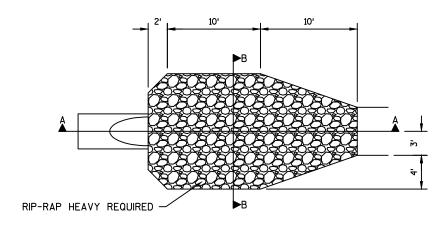


PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE CONSTRUCTION DETAILS SHEET

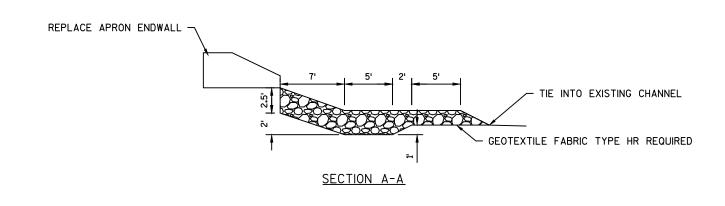
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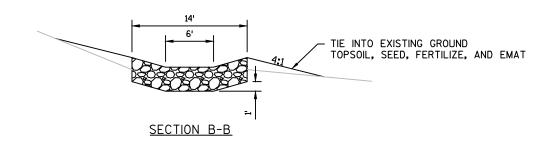
CE, PE, AND FE

HWY: USH 8



CULVERT OUTFALL REPAIR
STA 668+20 RT





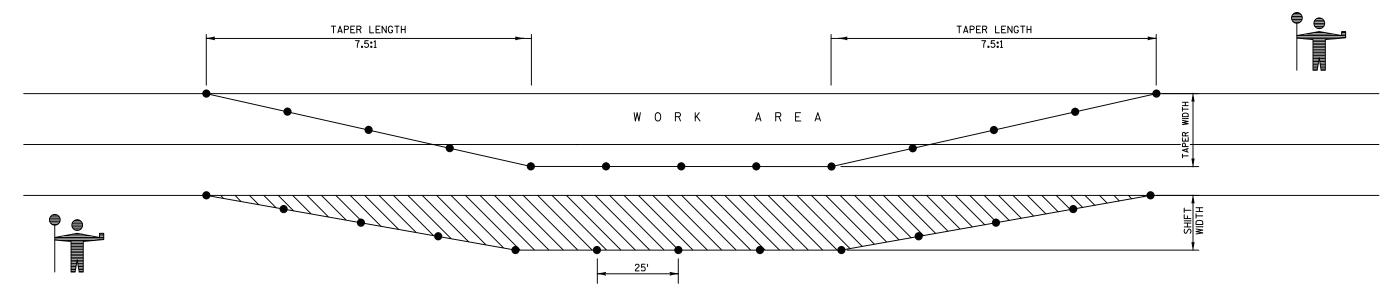
PLOT BY : KILEN, KAI M

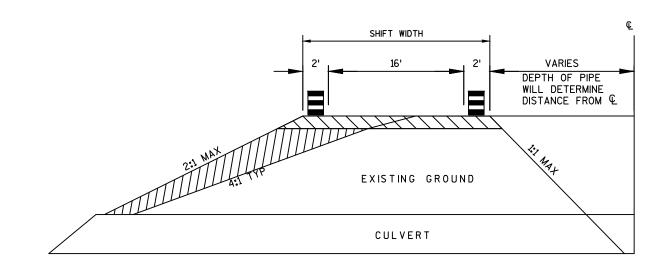
PLOT NAME :

PROJECT NO:1580-29-70

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### NOTES

- 1. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION
- 2. ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION
- 3. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS
- 4. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE"
- 5. FLAGGERS ARE SPECIFIC TO THIS OPERATION

KEY

TRAFFIC CONTROL DRUM

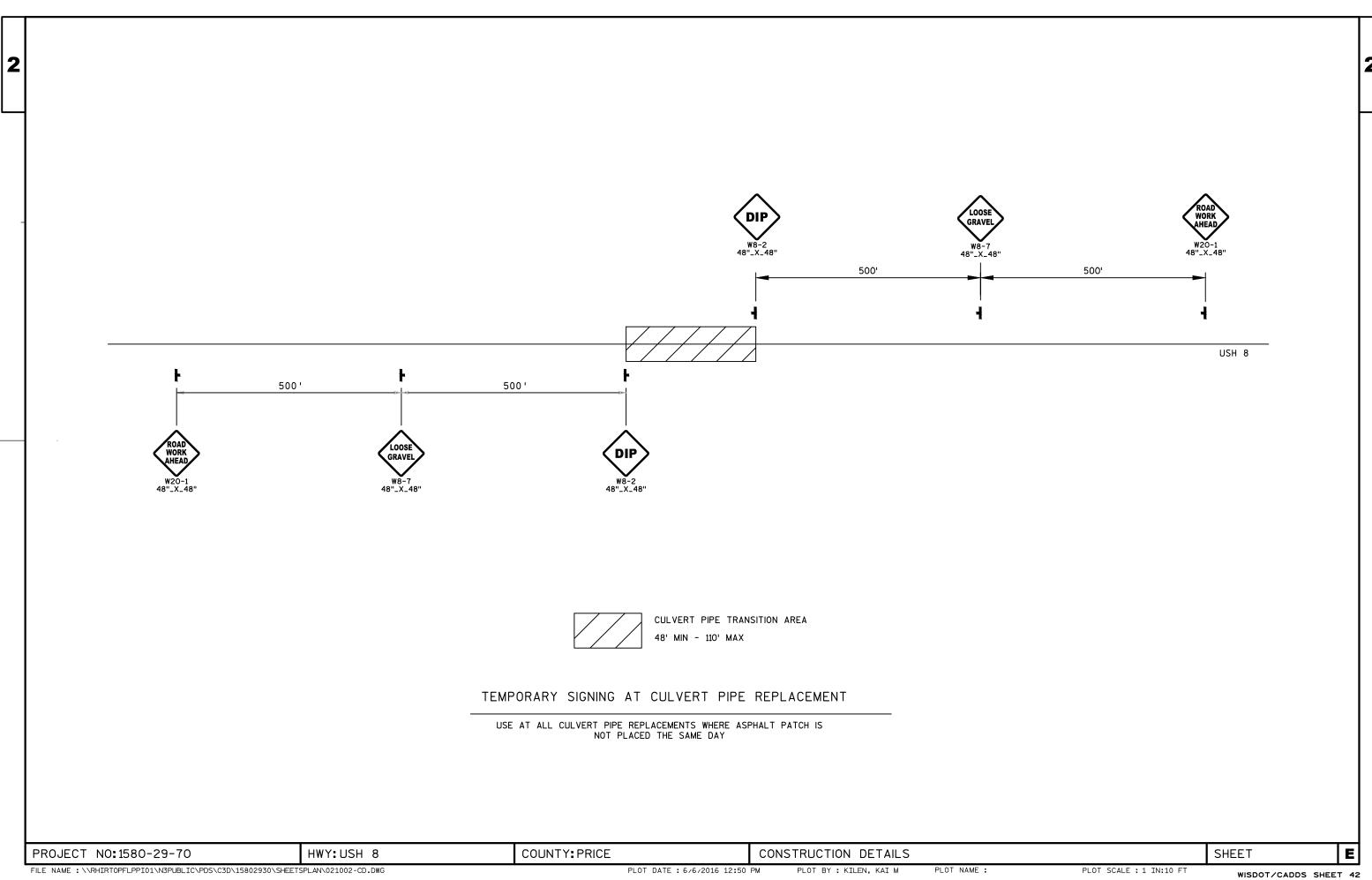
6" BASE AGGREGATE DENSE 1 1 /4 INCH
- INCIDENTAL TO LANE SHIFT ITEM

FILL
- INCIDENTAL TO LANE SHIFT ITEM

LANE SHIFT DETAIL

CULVERT REPLACEMENTS STA 610+68 STA 658+80

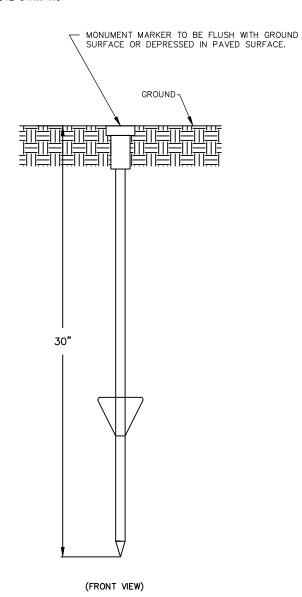
PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE CONSTRUCTION DETAILS SHEET





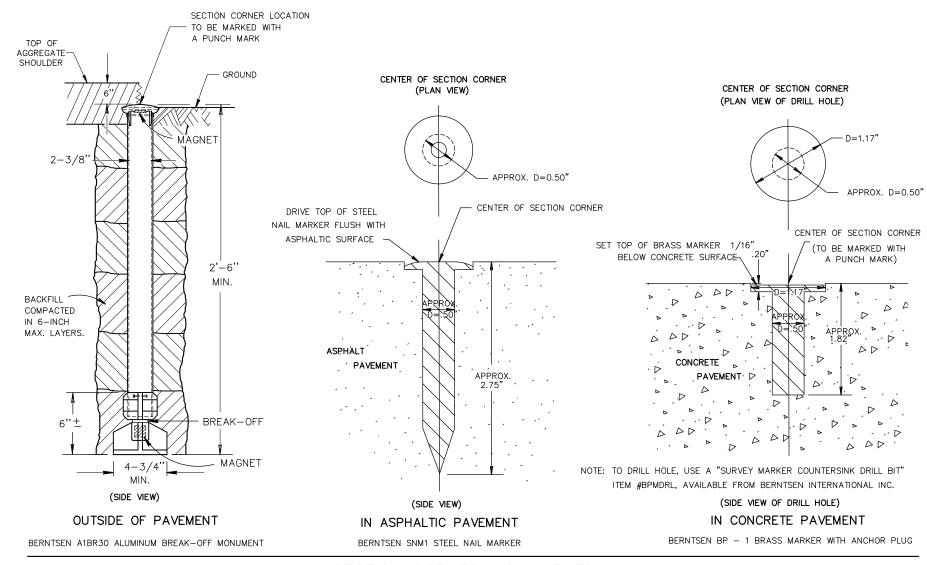
### WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



BERNSTEN DRIVABLE MONUMENT SSDR130

LANDMARK REFERENCE MONUMENT (TIES ONLY)



### SECTION CORNER MONUMENTS

### GENERAL NOTES

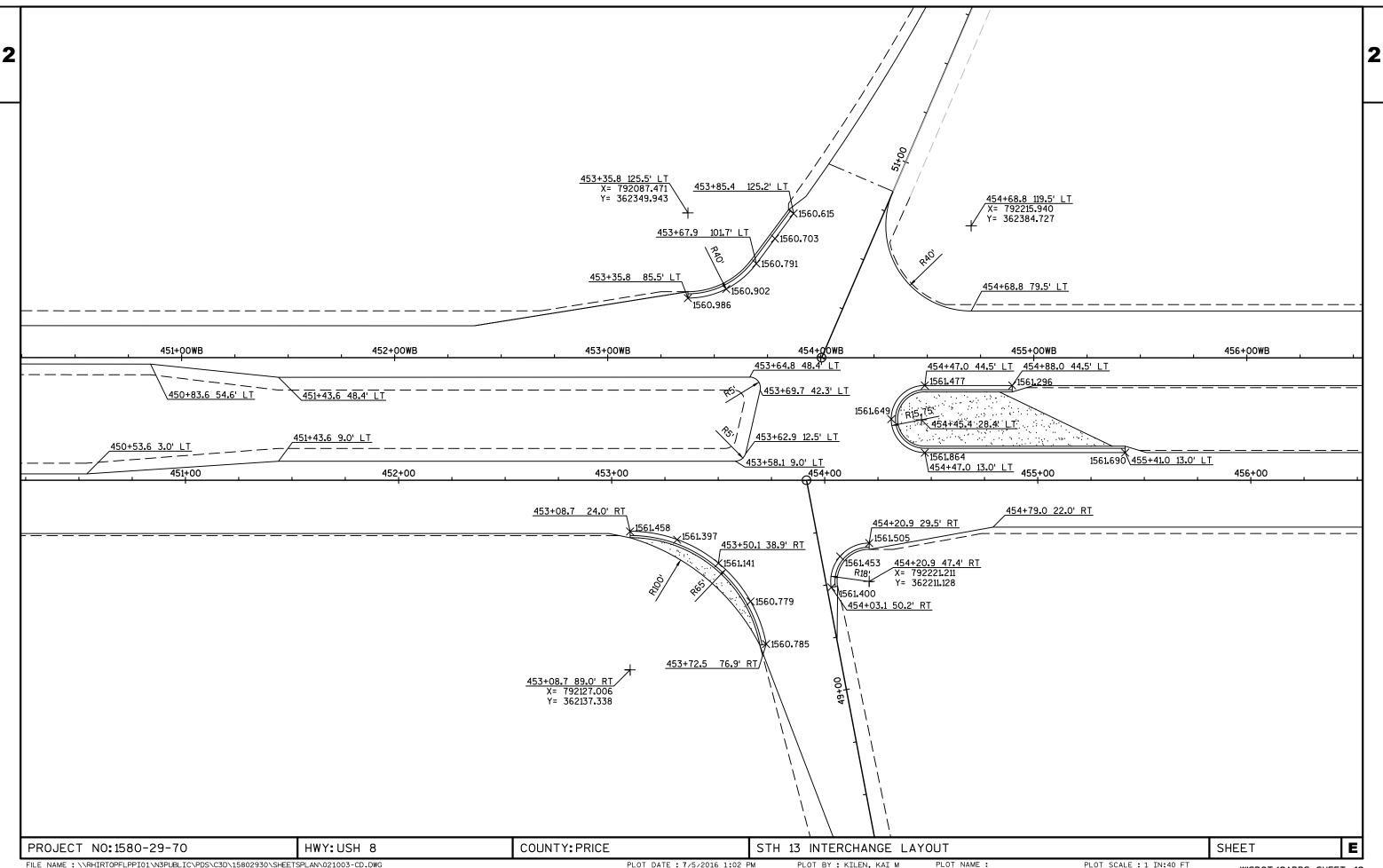
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

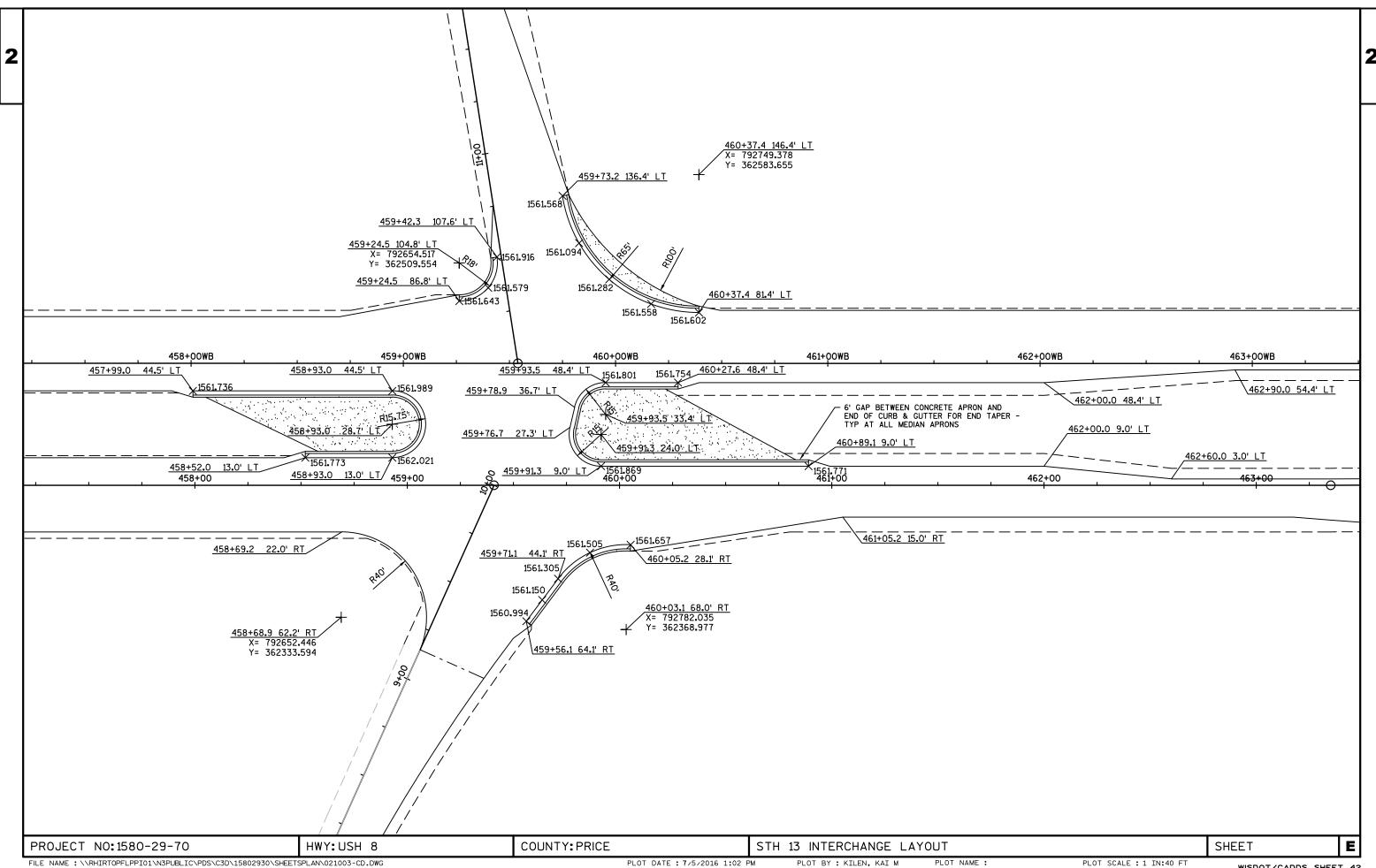
LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

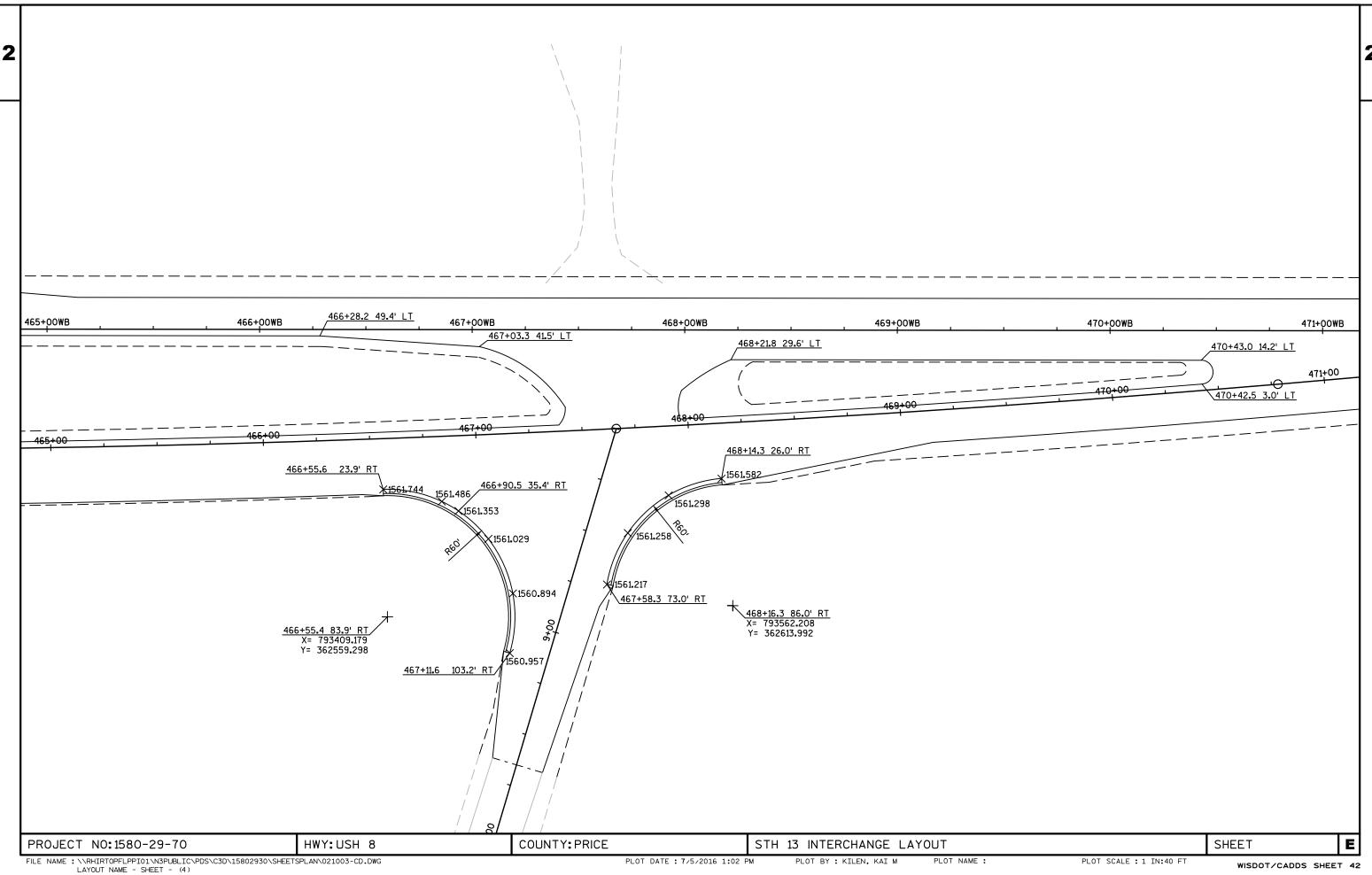
CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

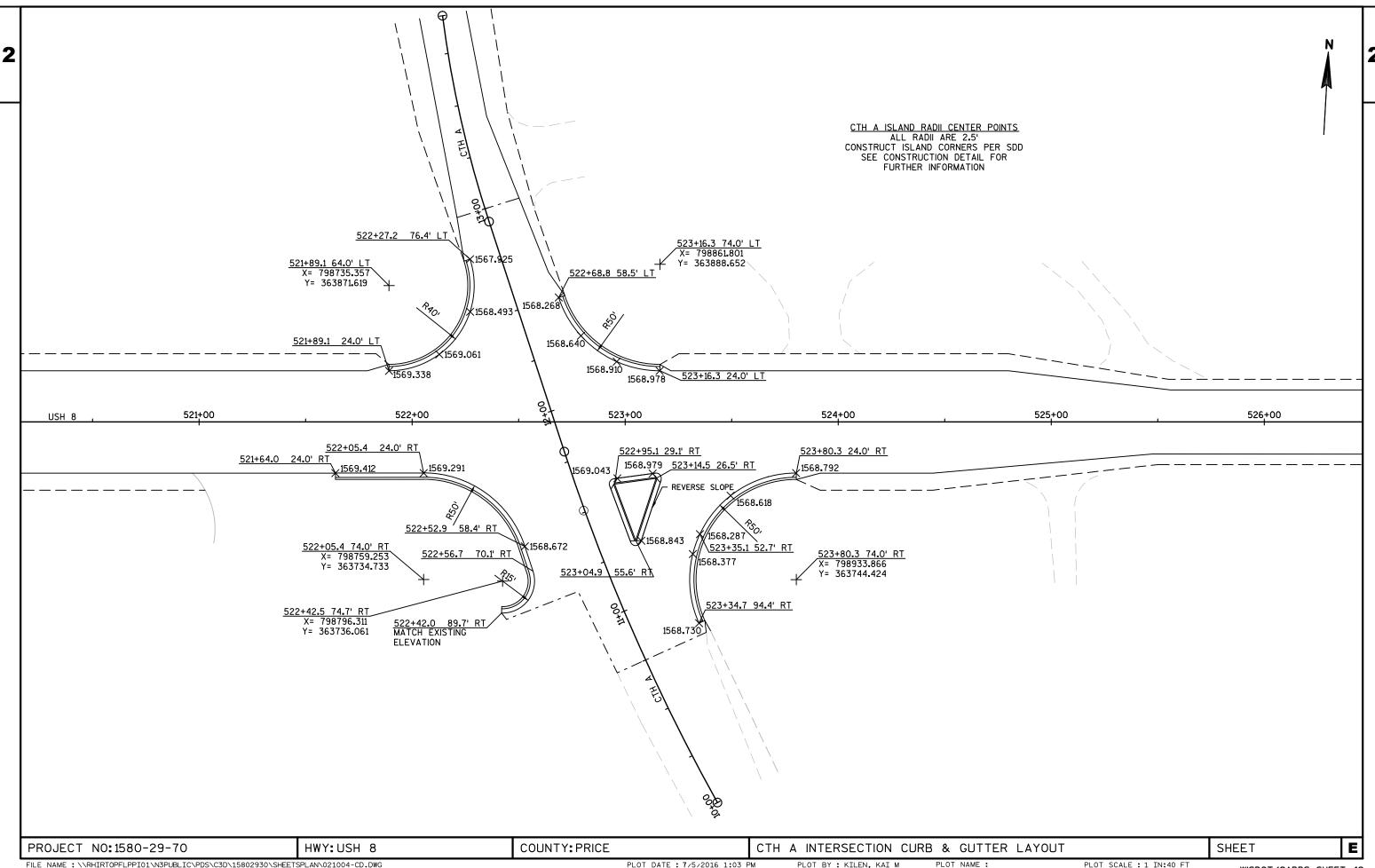
SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL

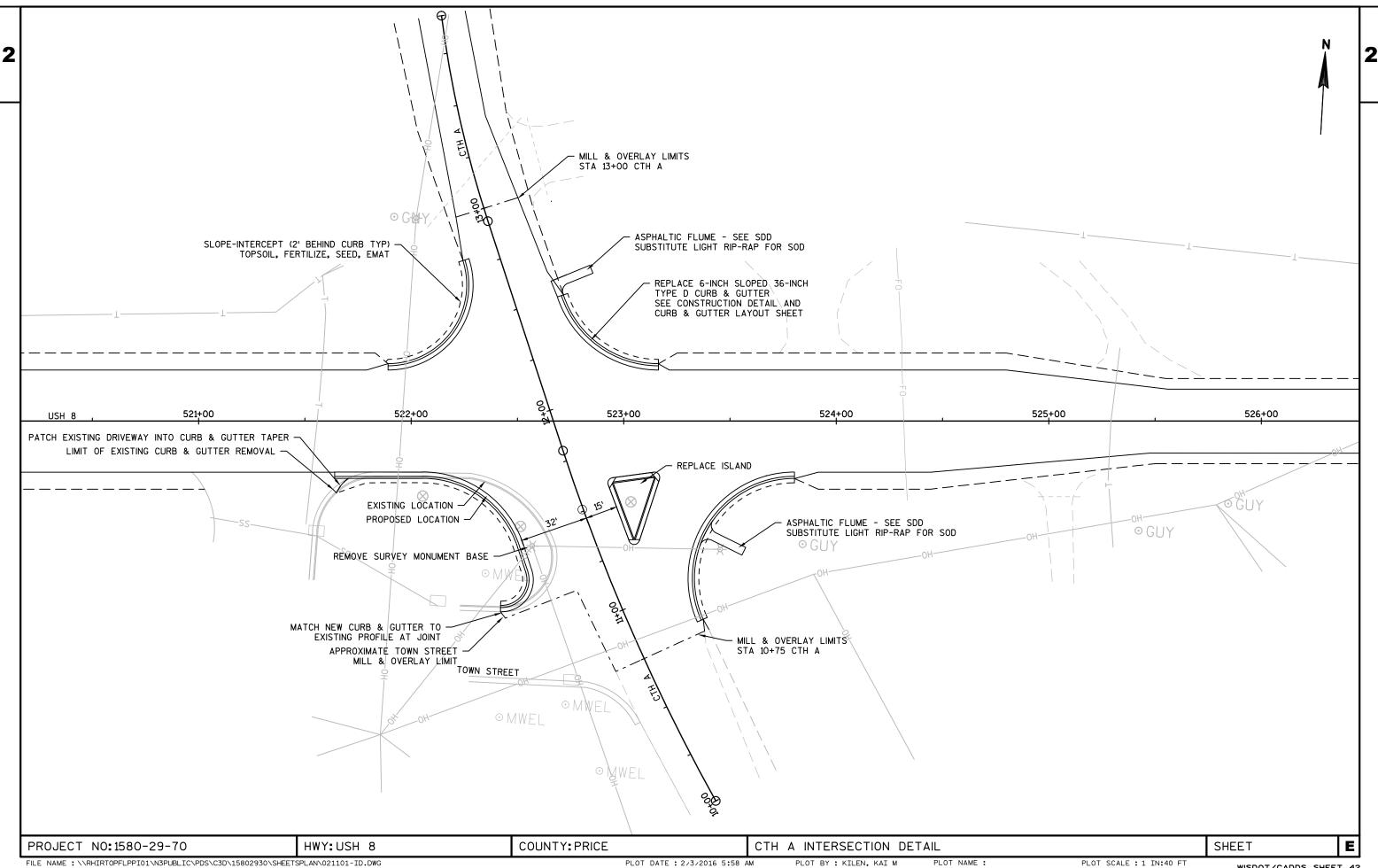
COUNTY: PRICE SHEET E PROJECT NO: 1580-29-70 HWY: USH 8 CONSTRUCTION DETAILS FILE NAME: \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\15802930\SHEETSPLAN\021002-CD.DWG

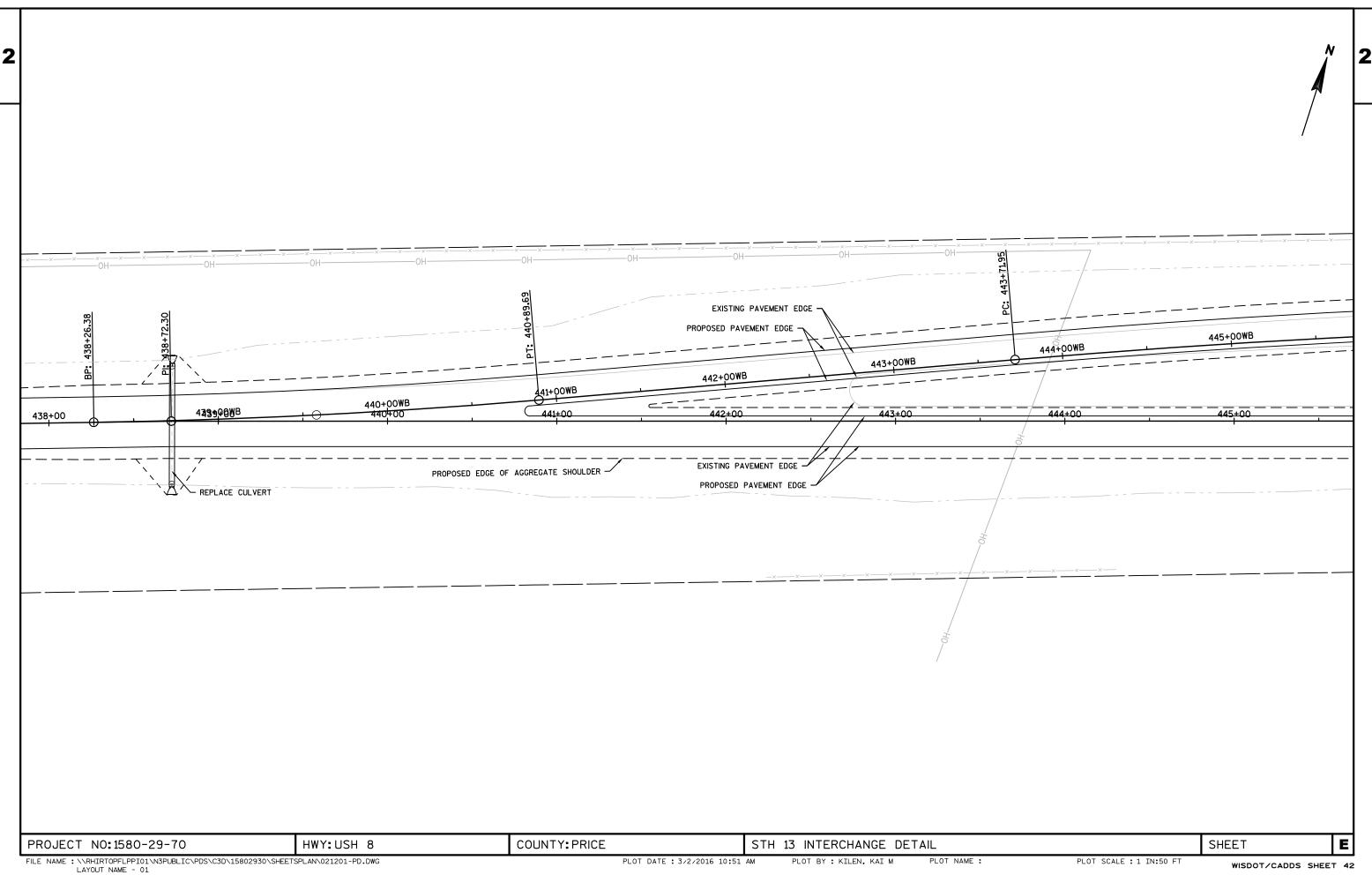


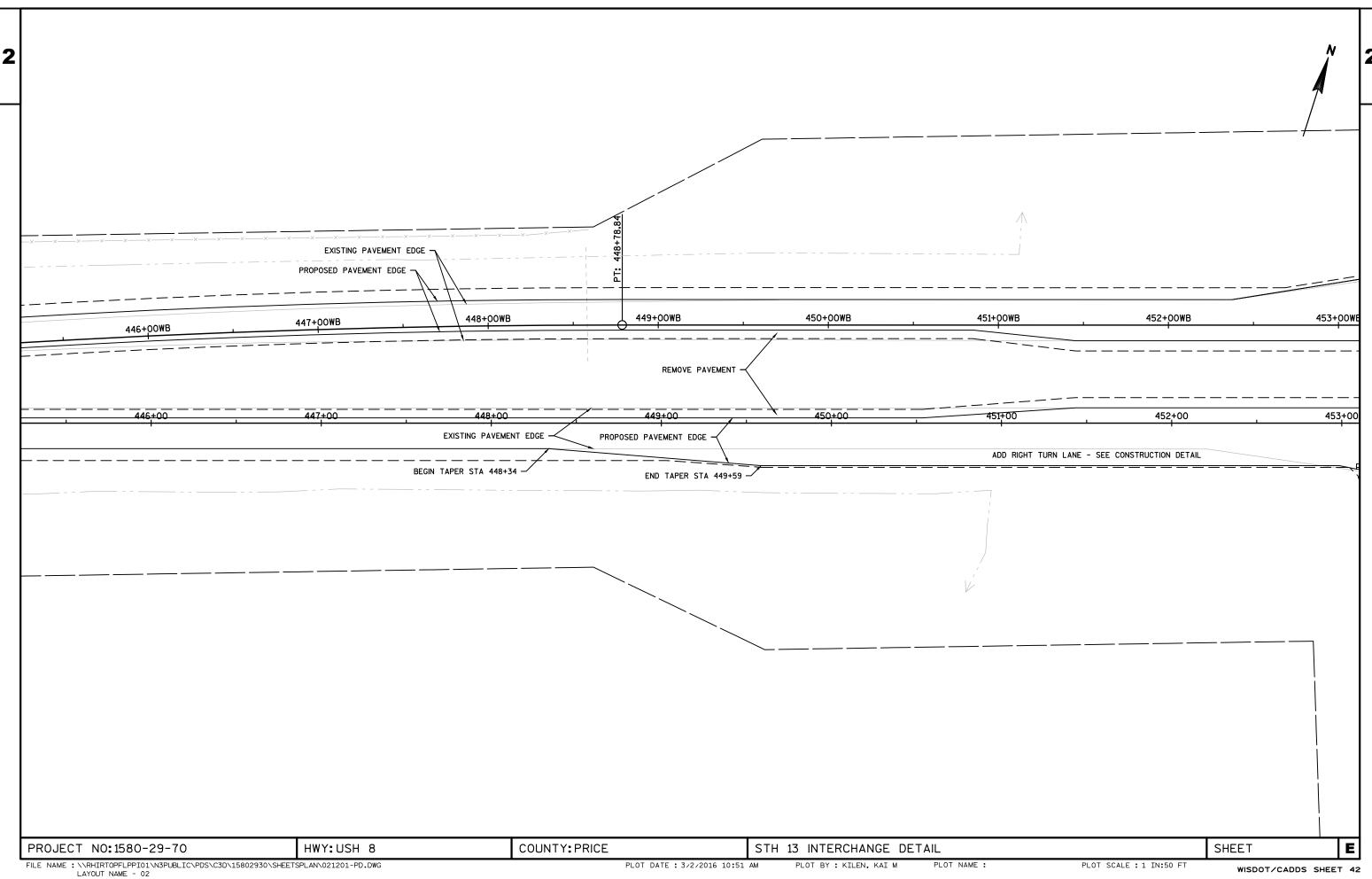


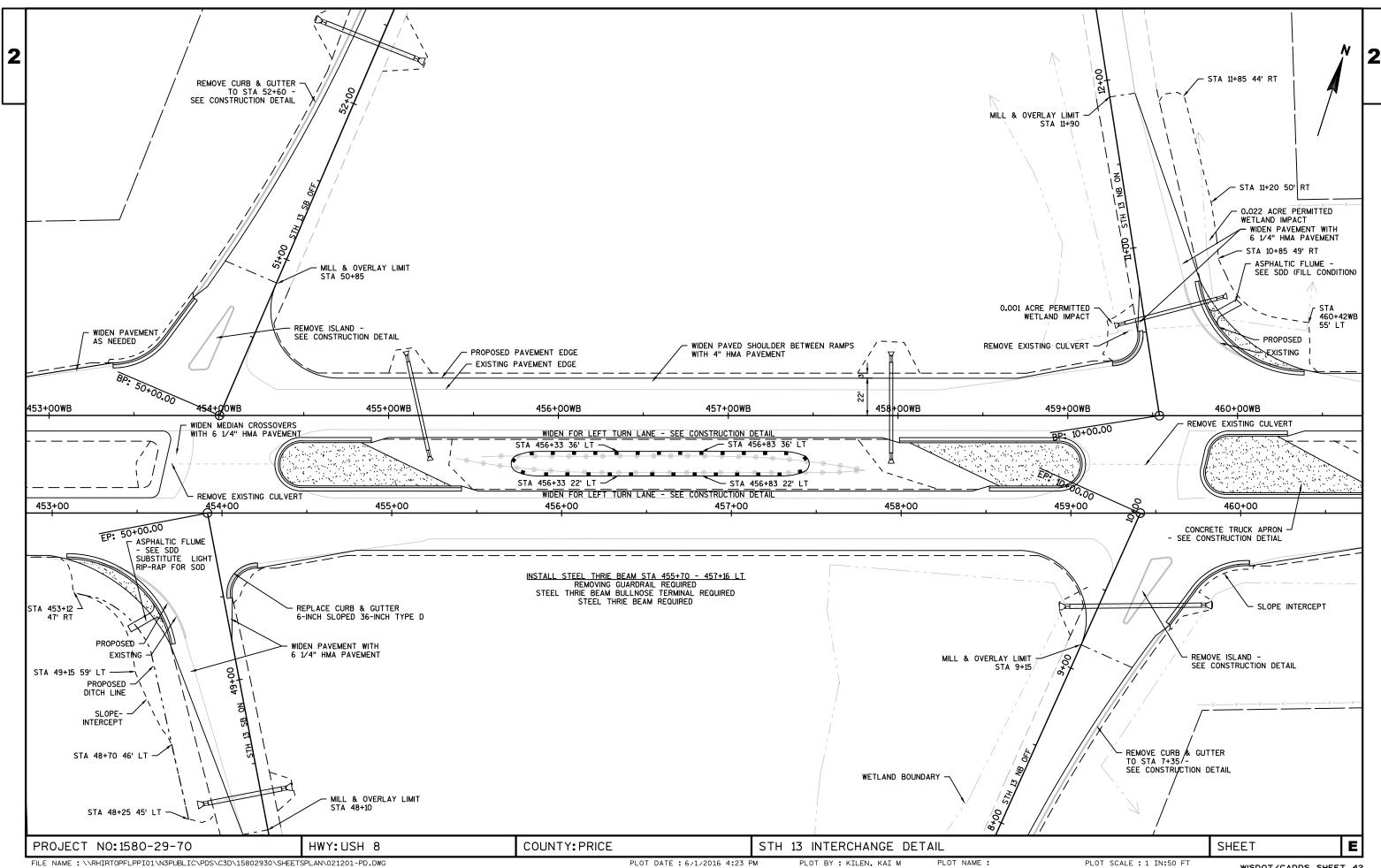


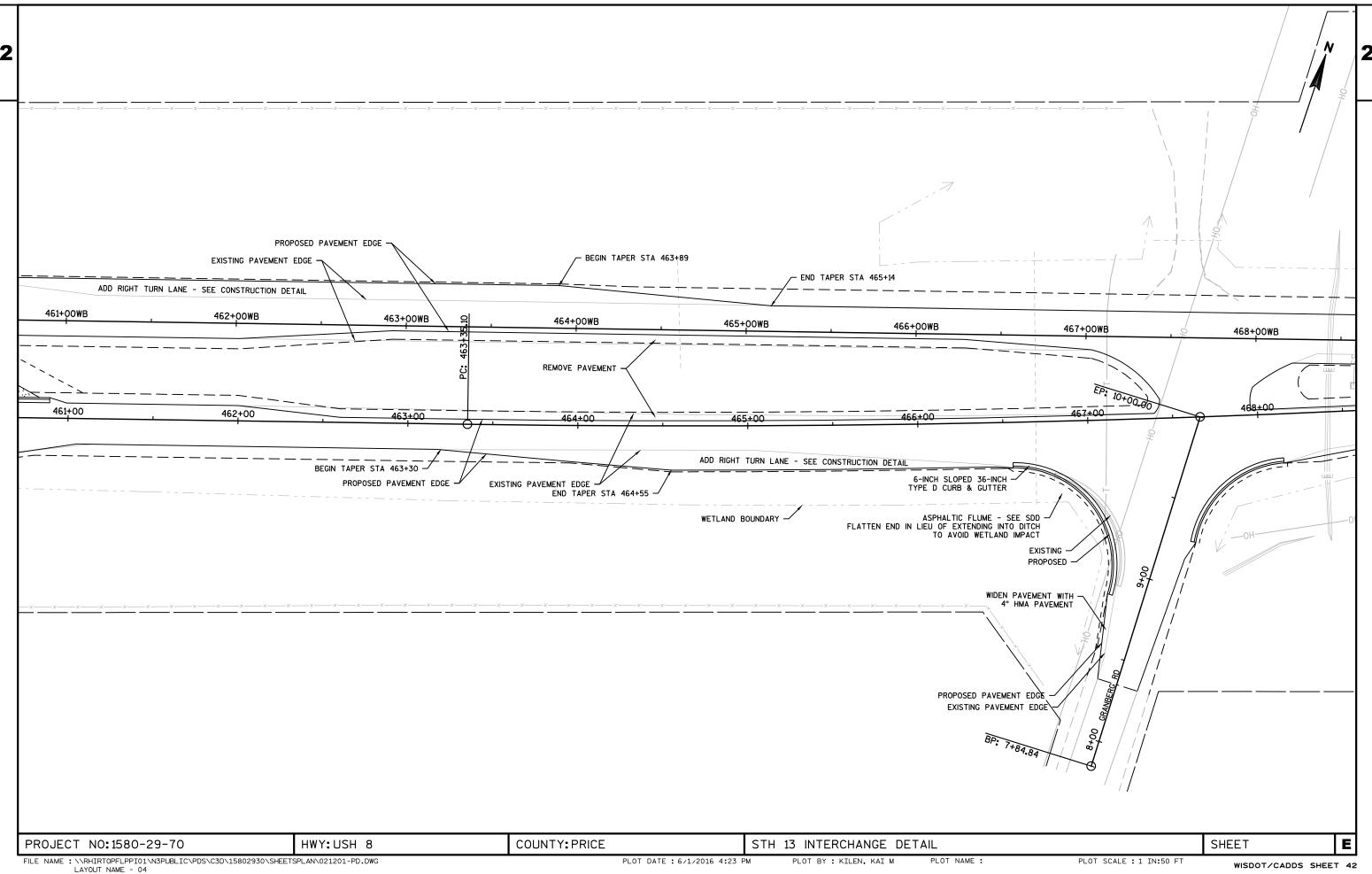


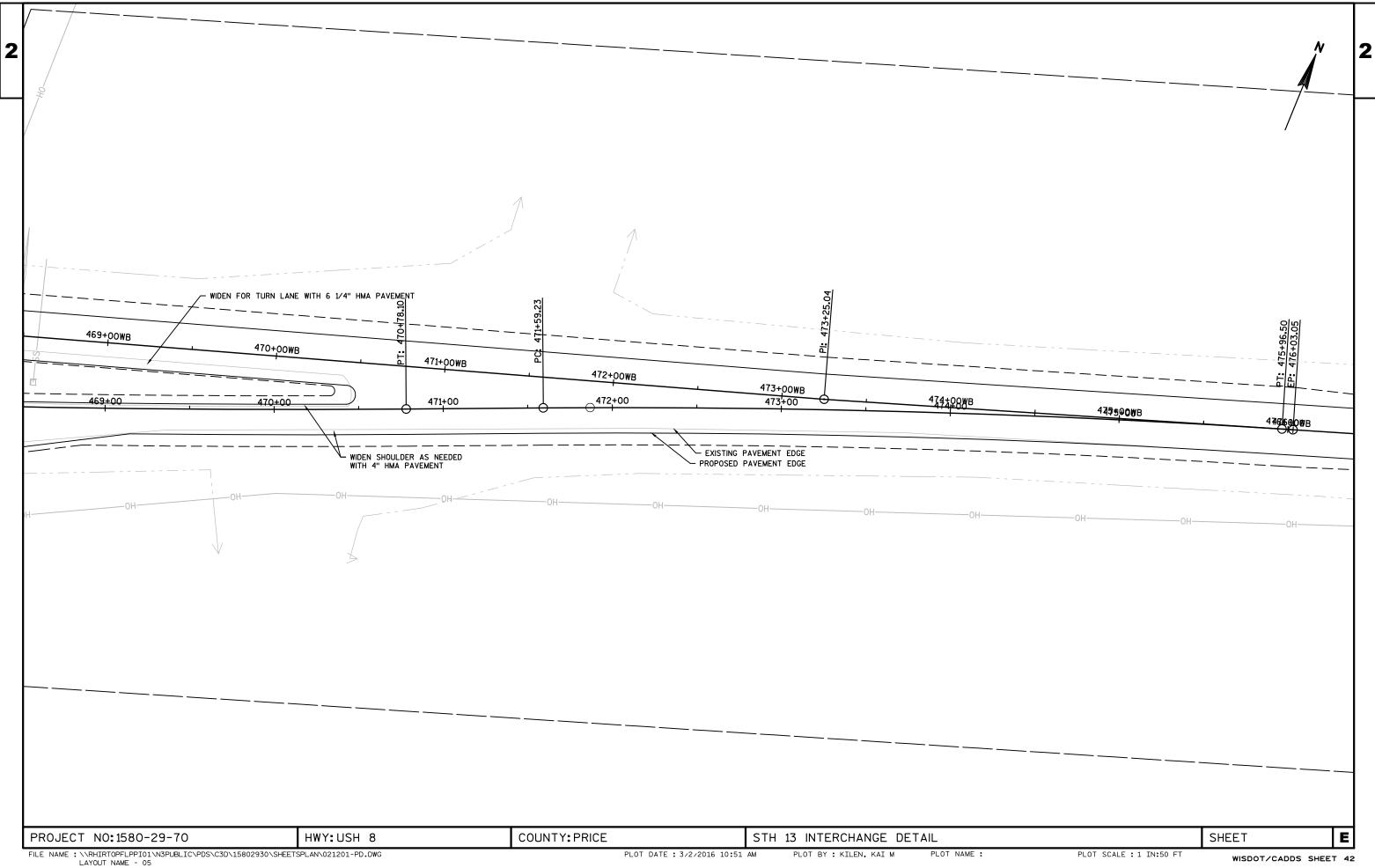


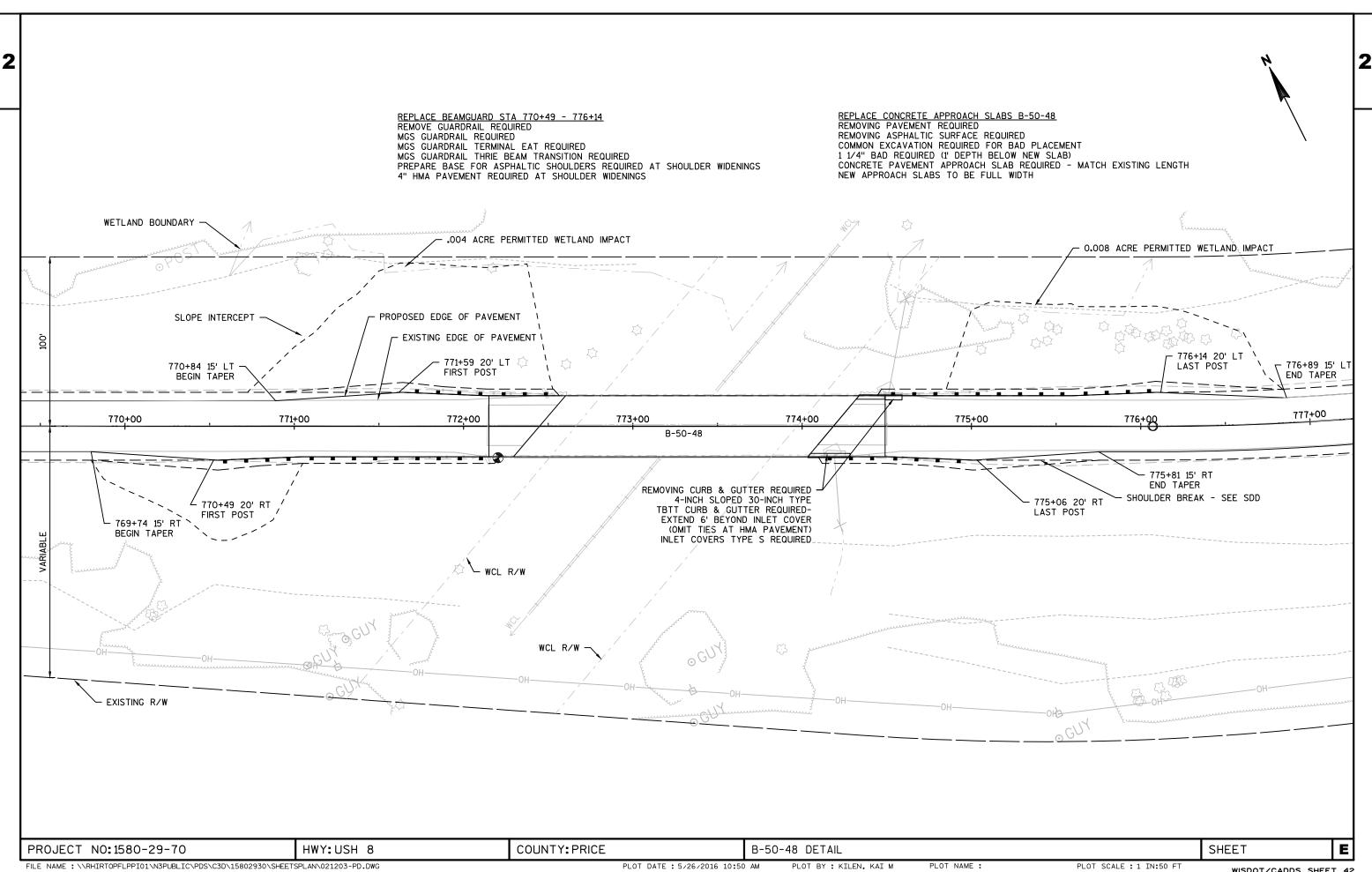


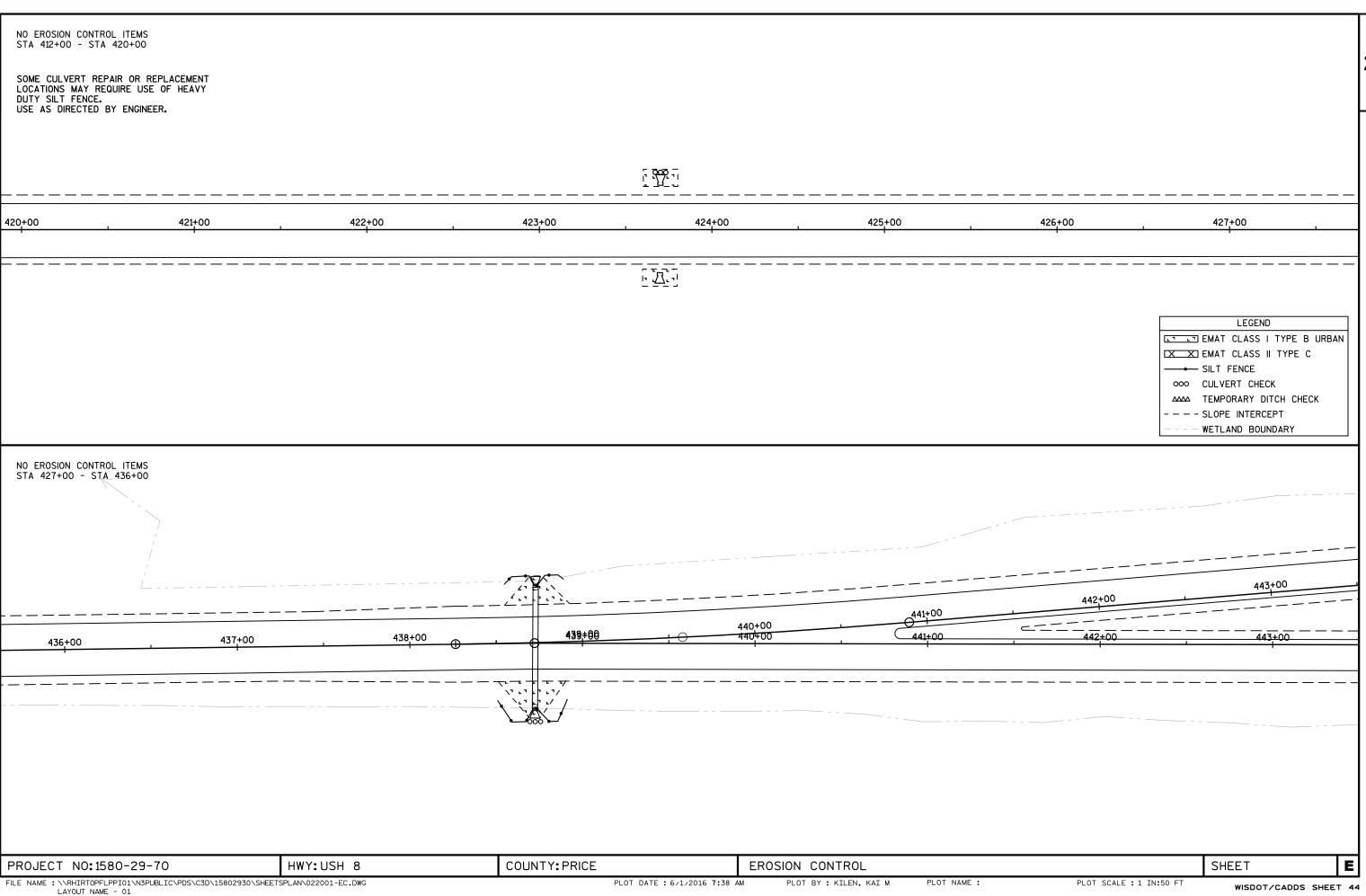


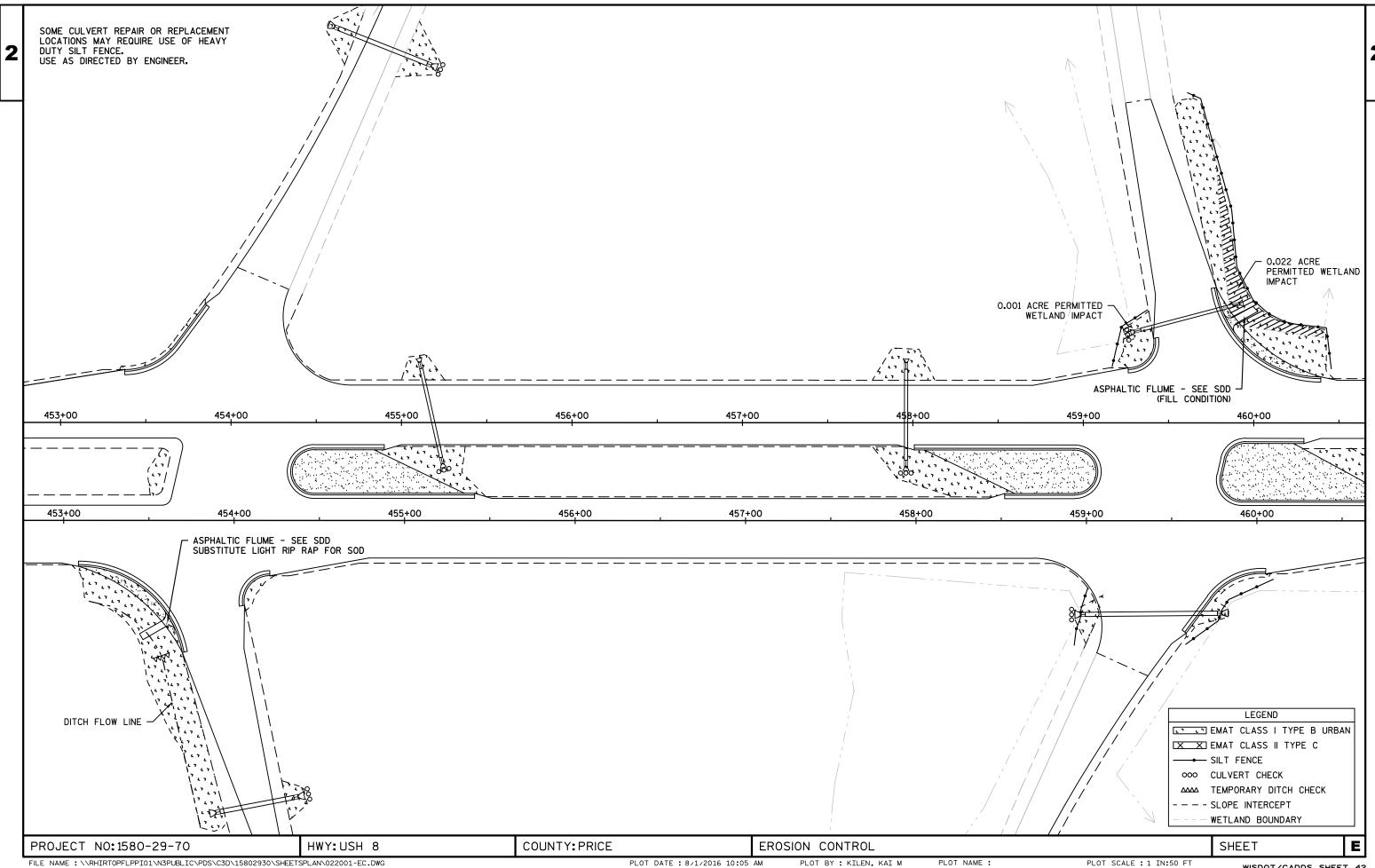


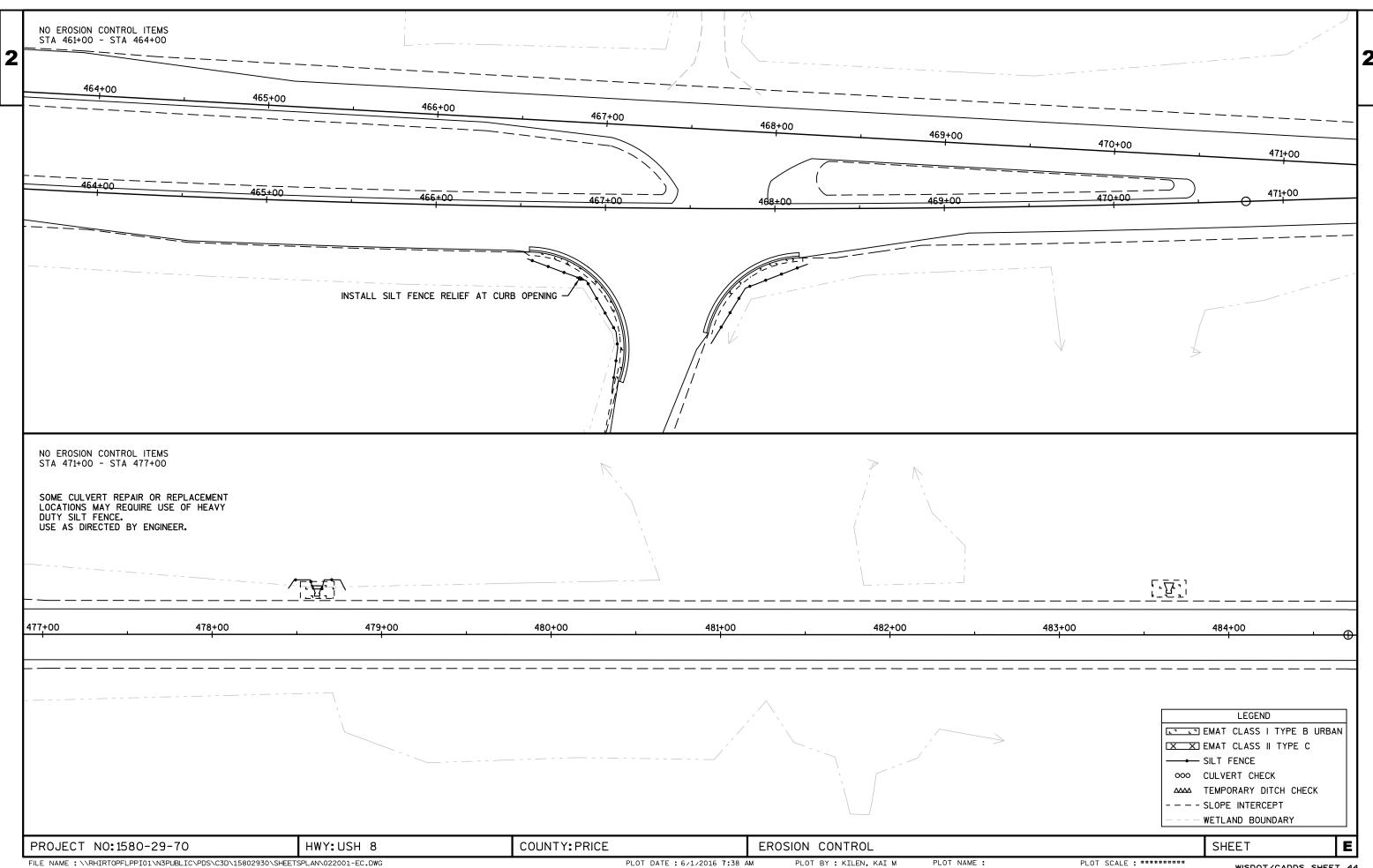


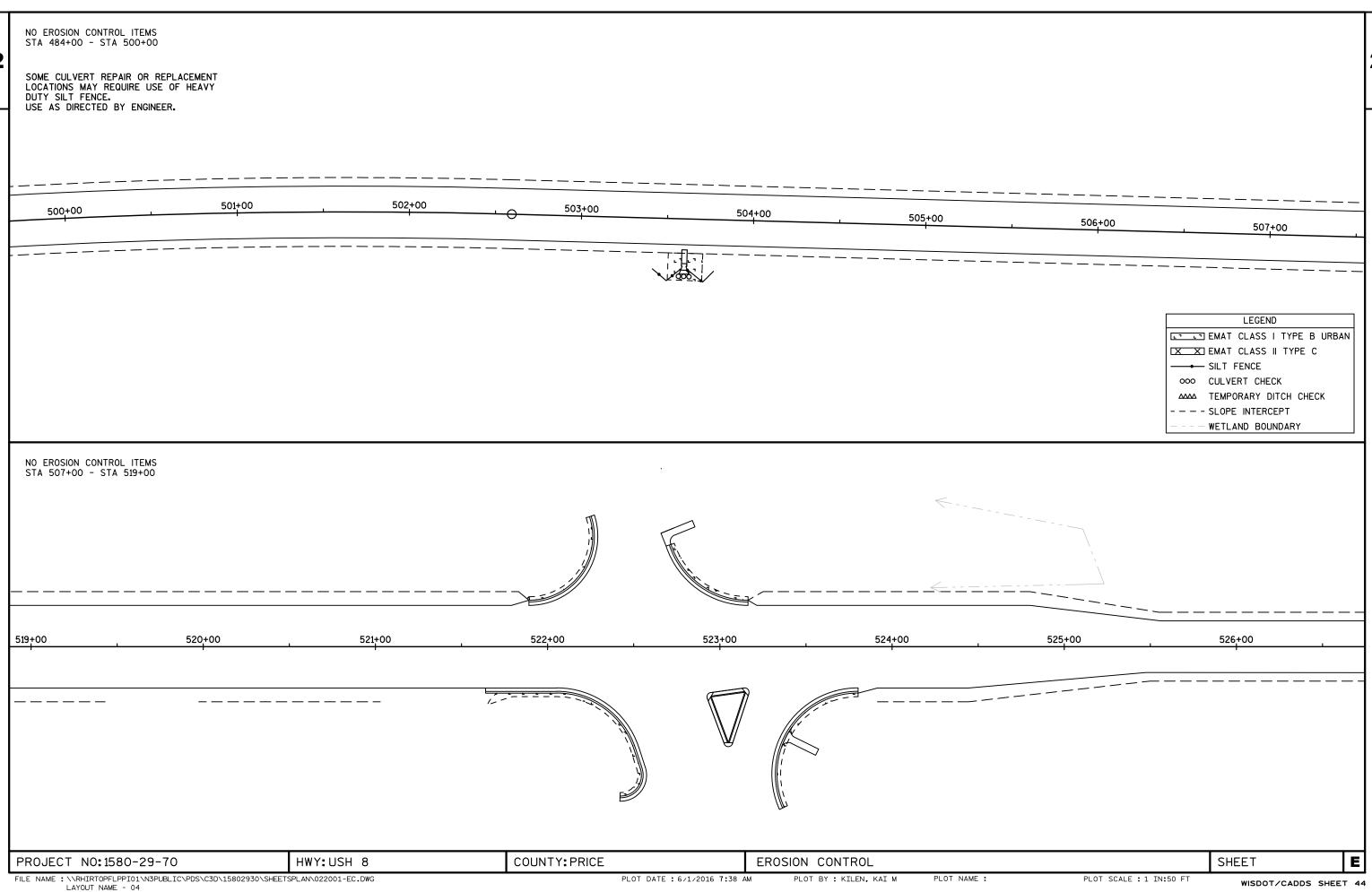


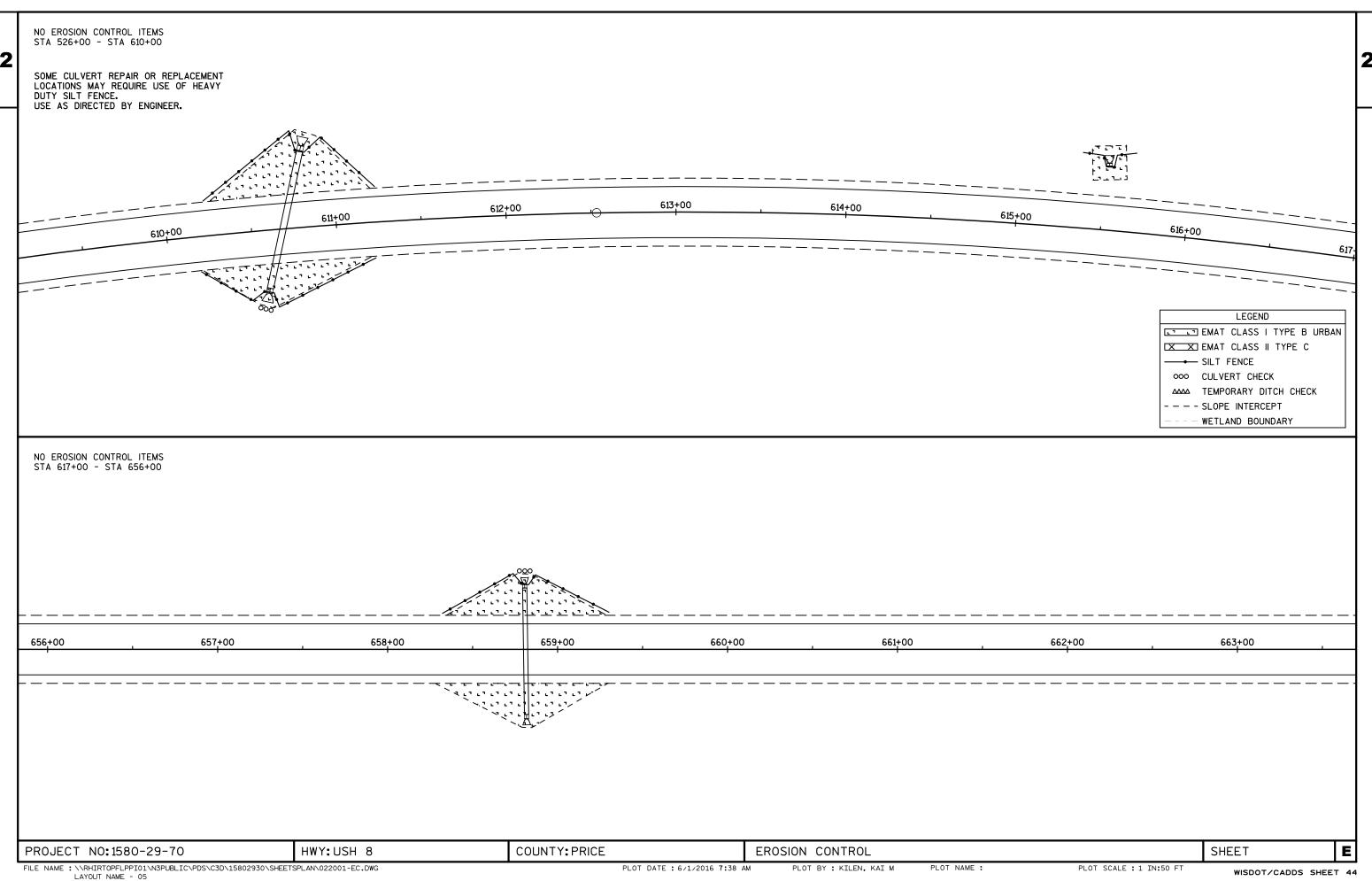


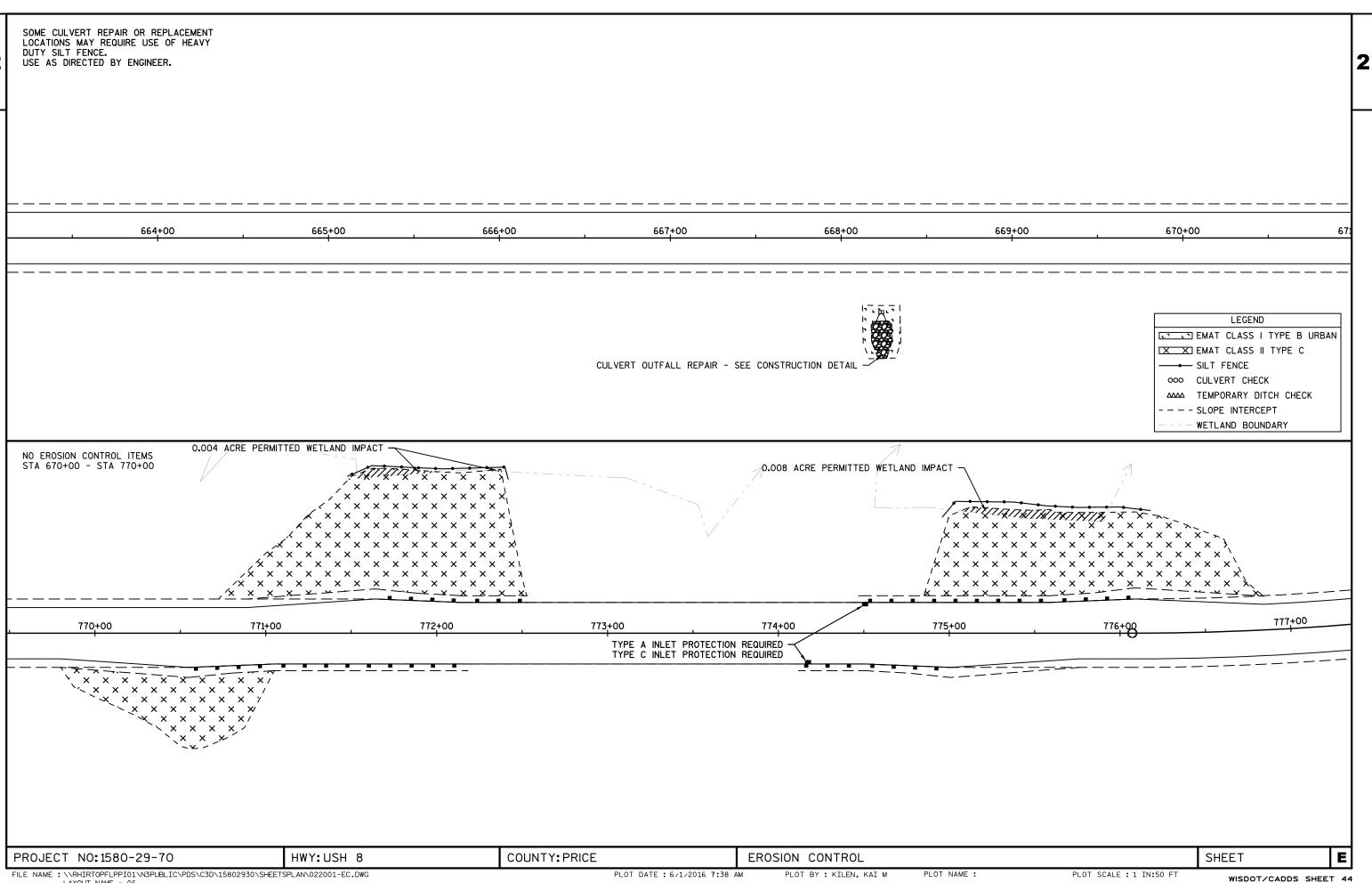


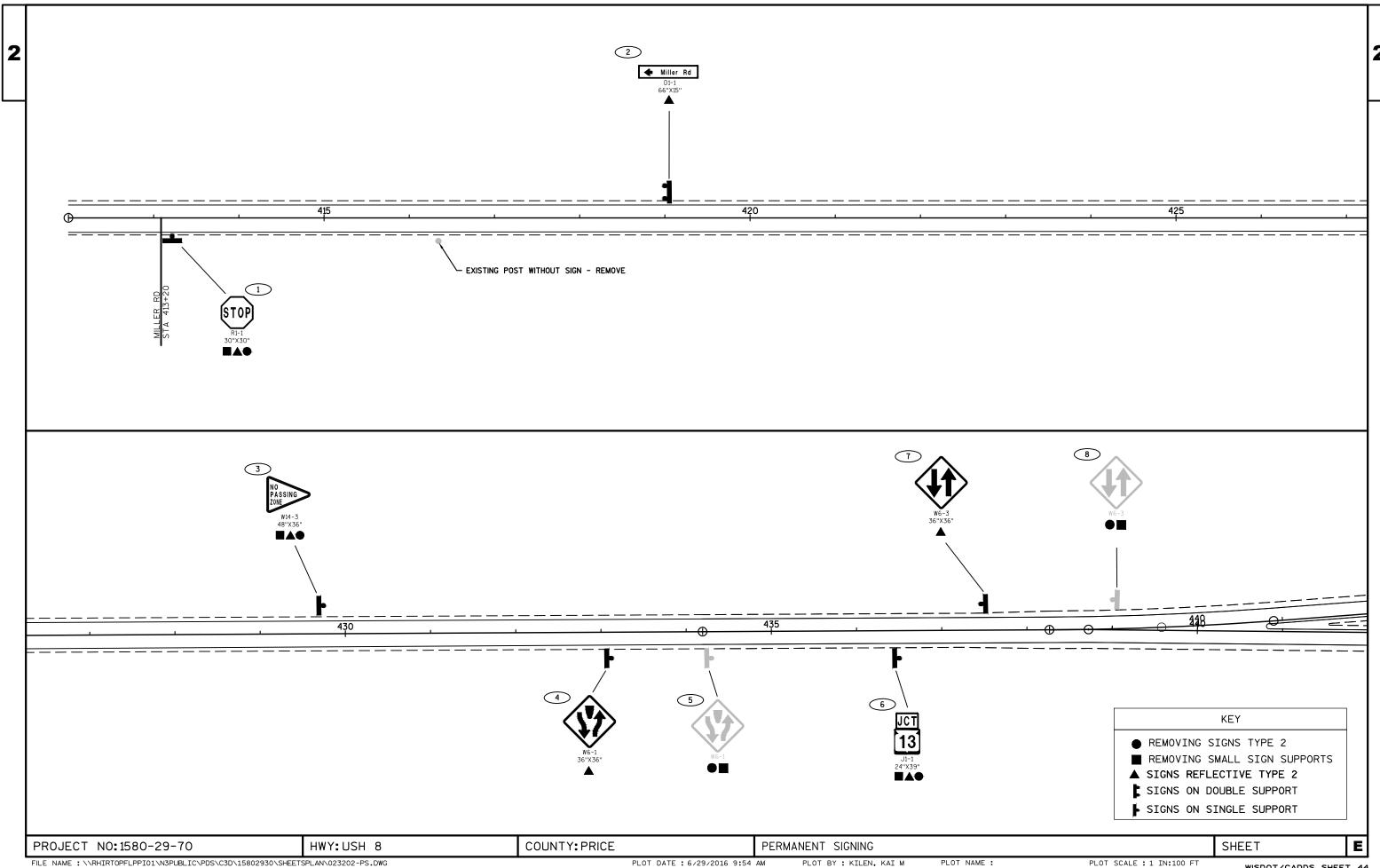


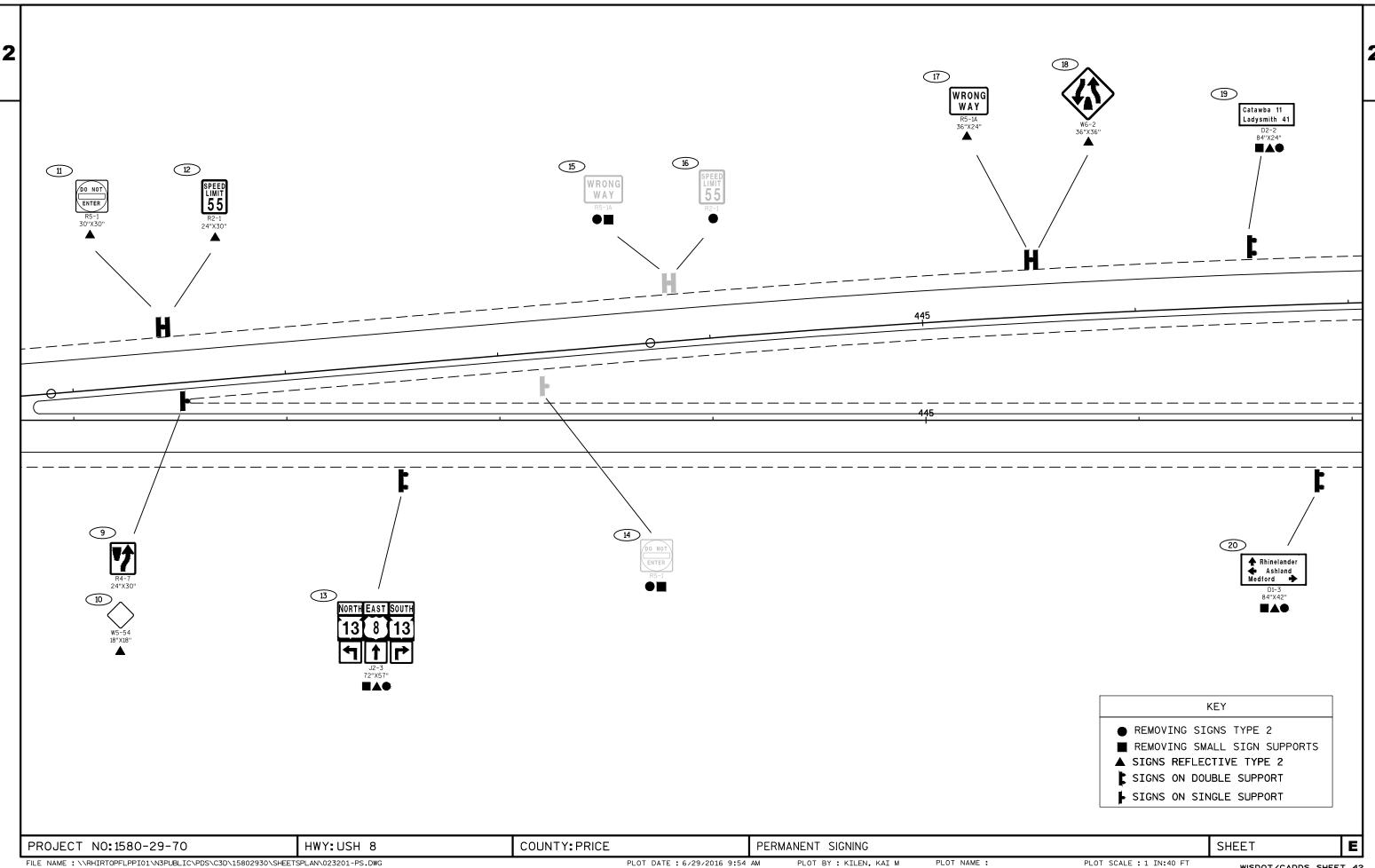


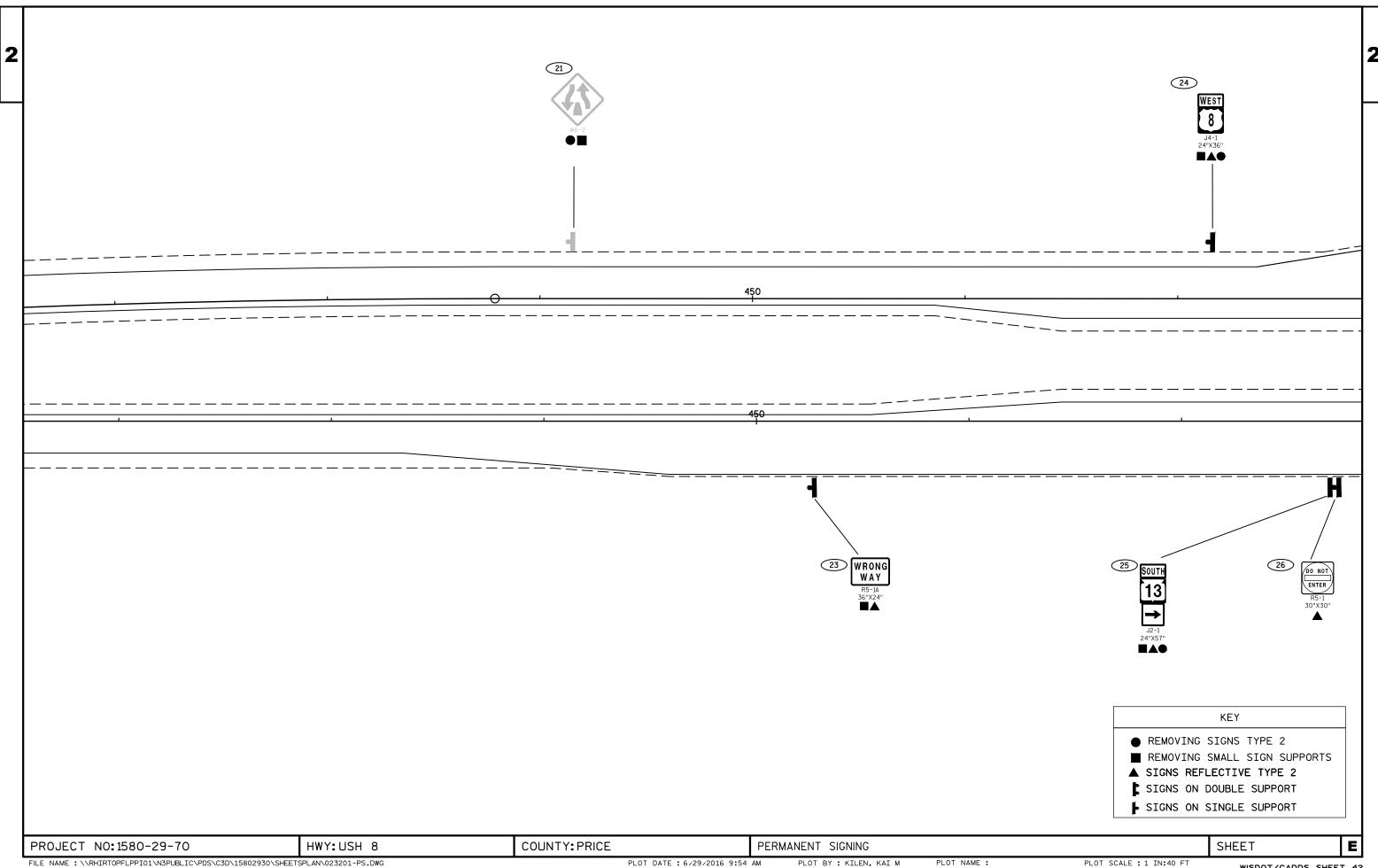


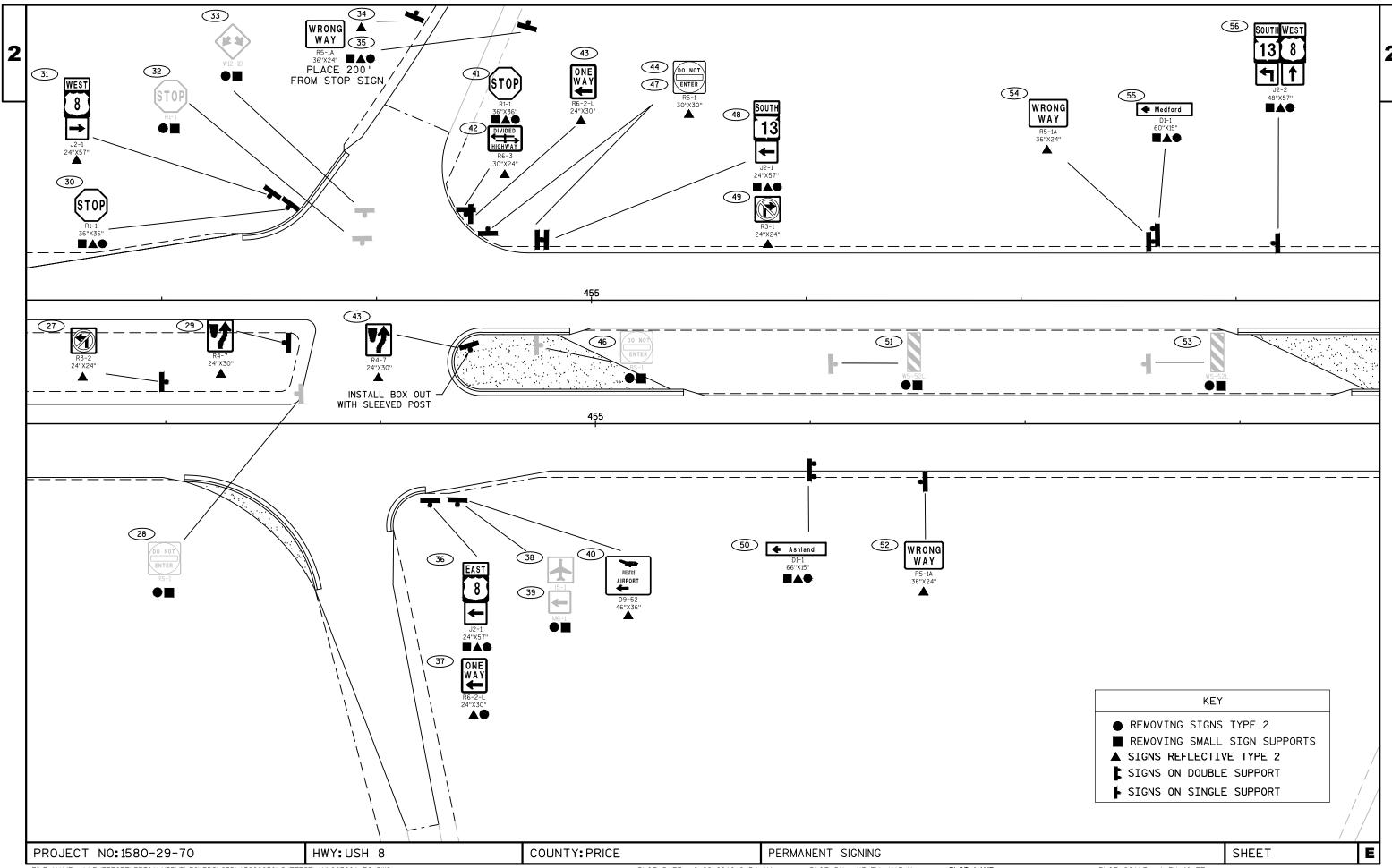


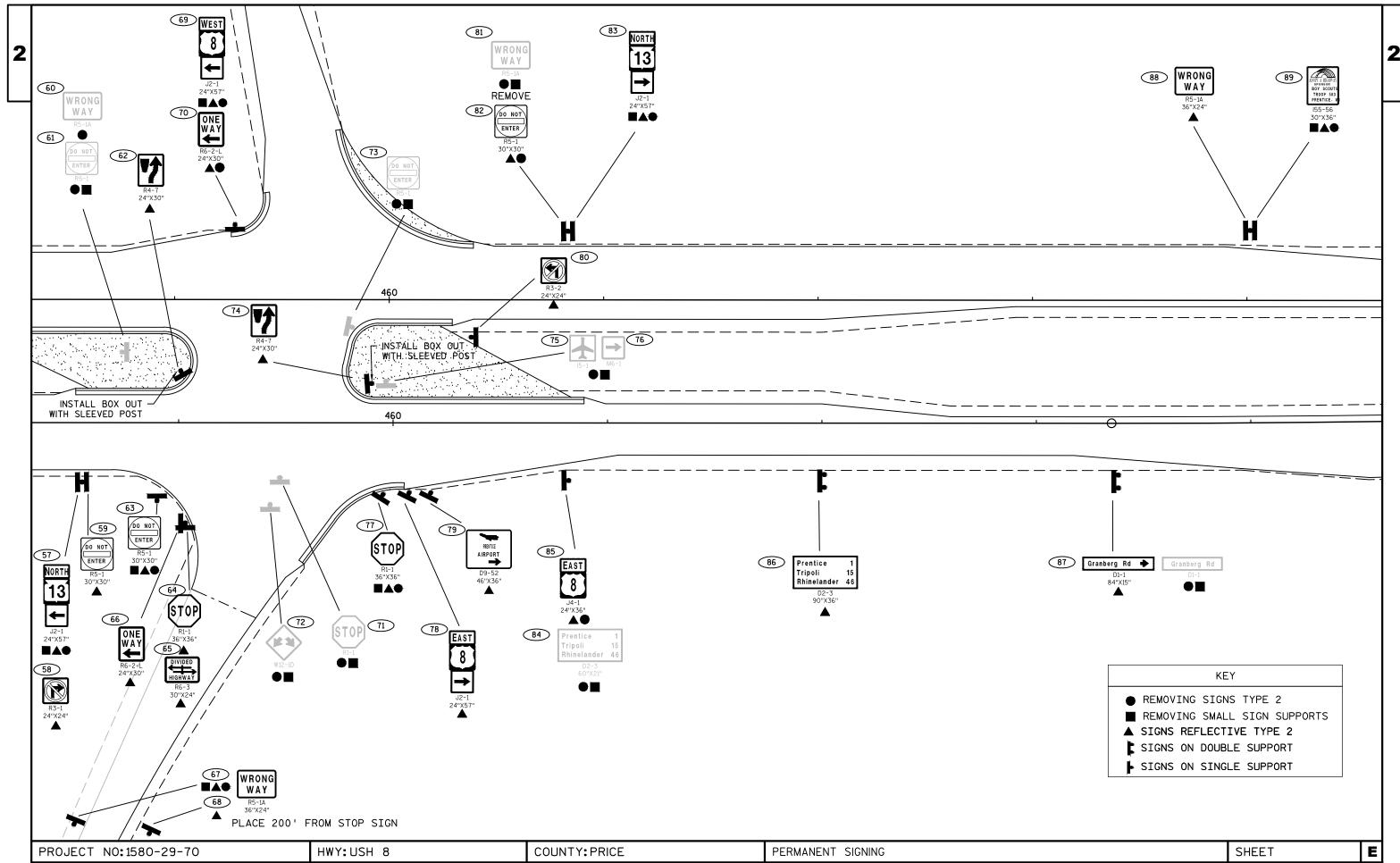


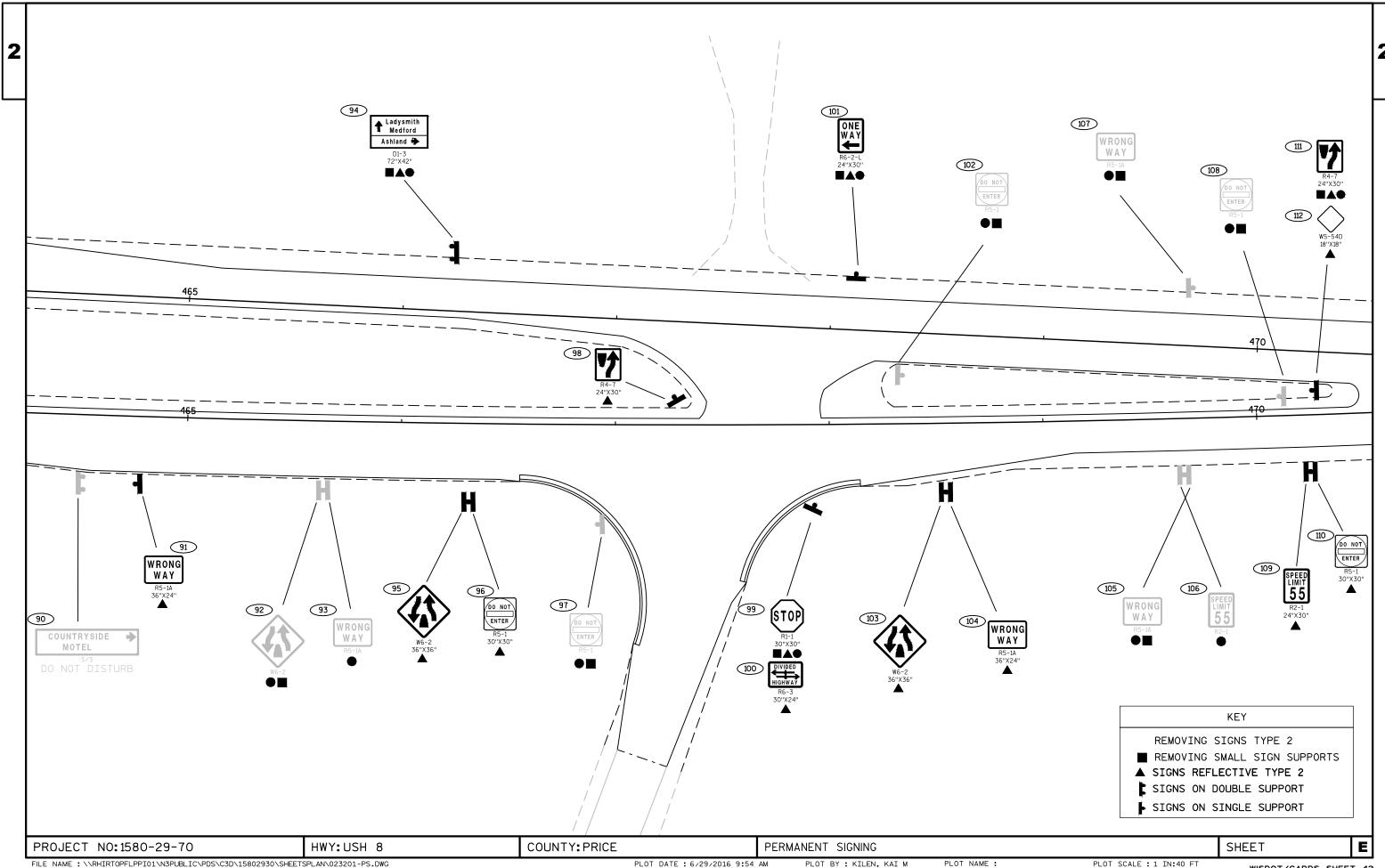


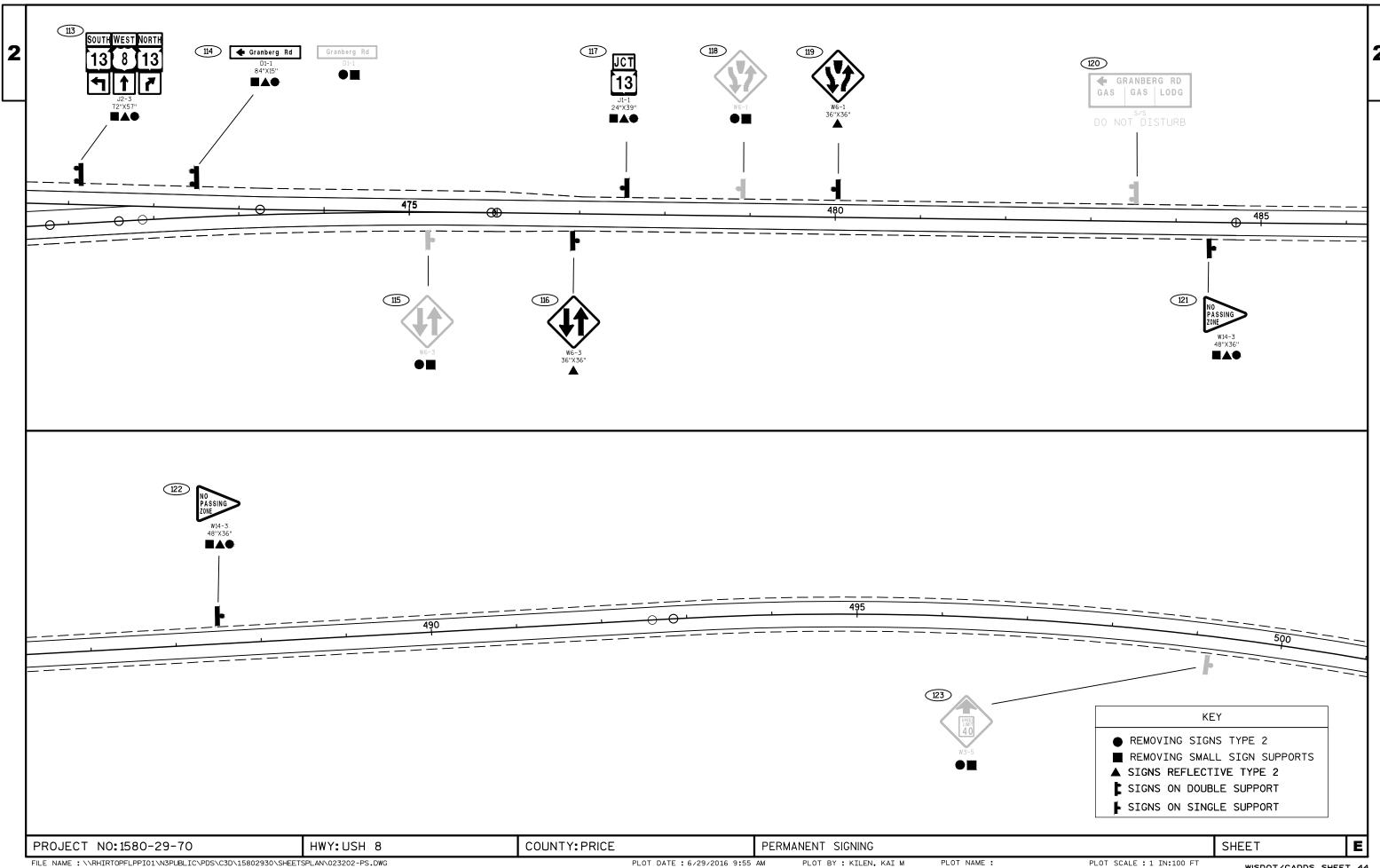


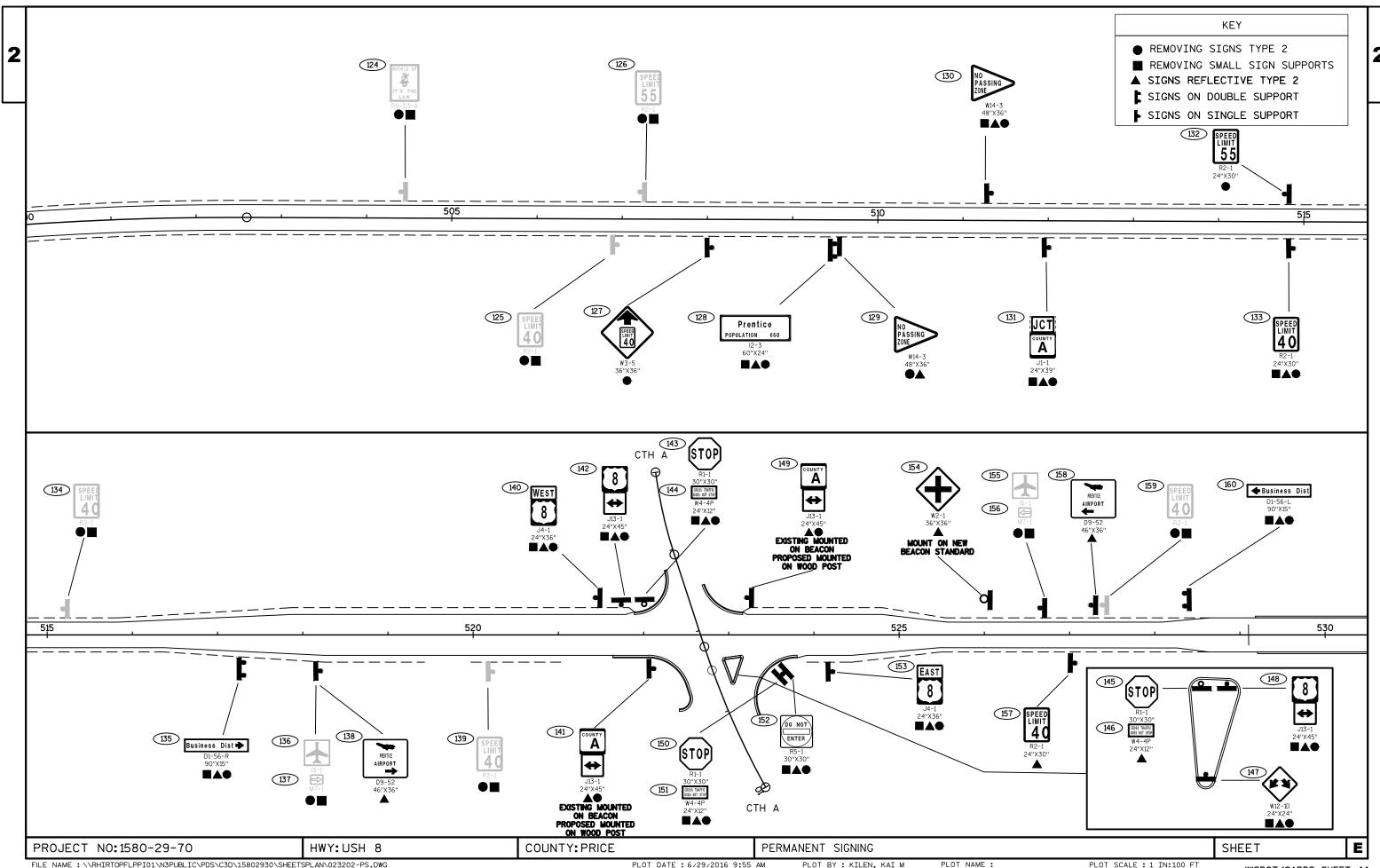


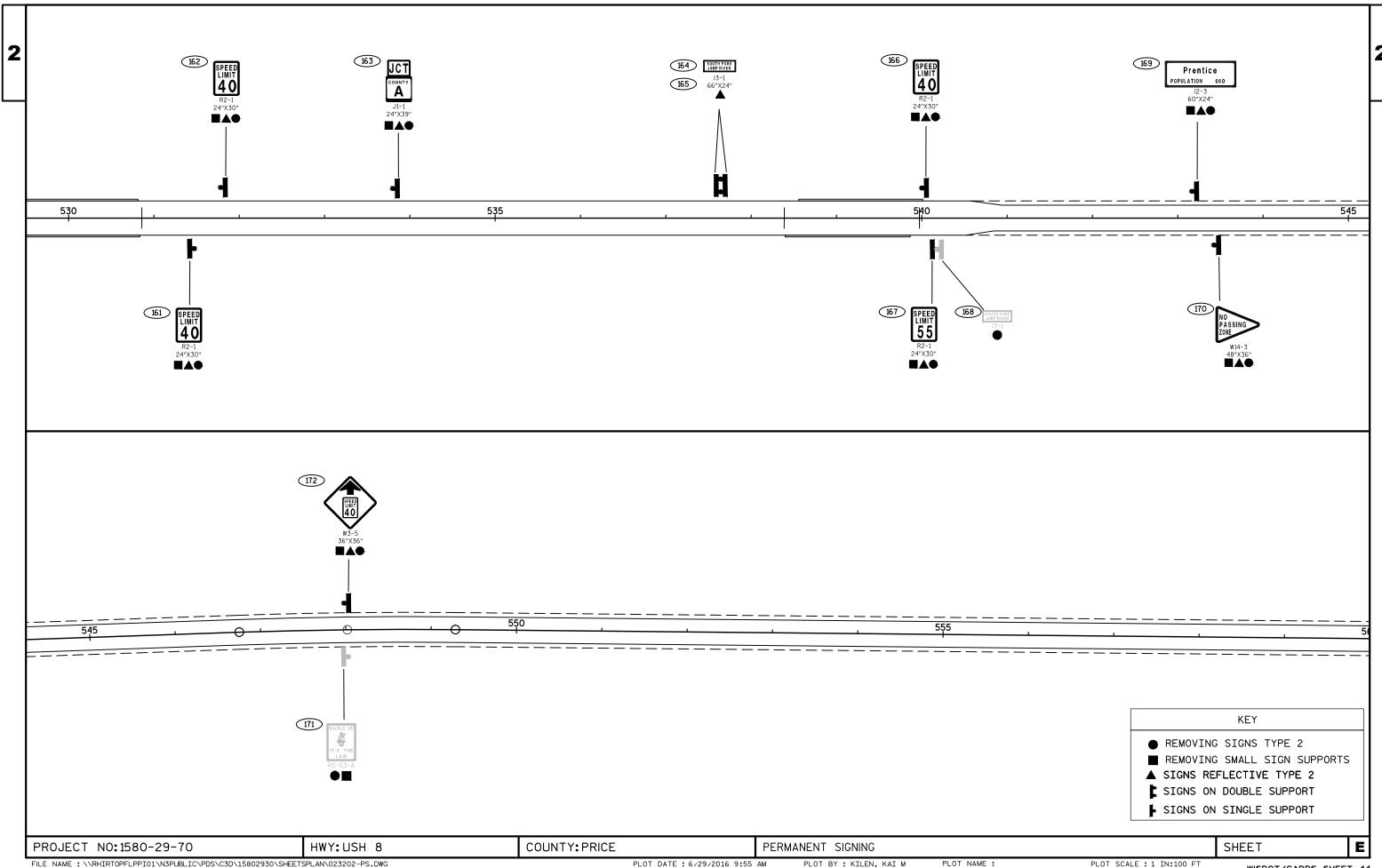


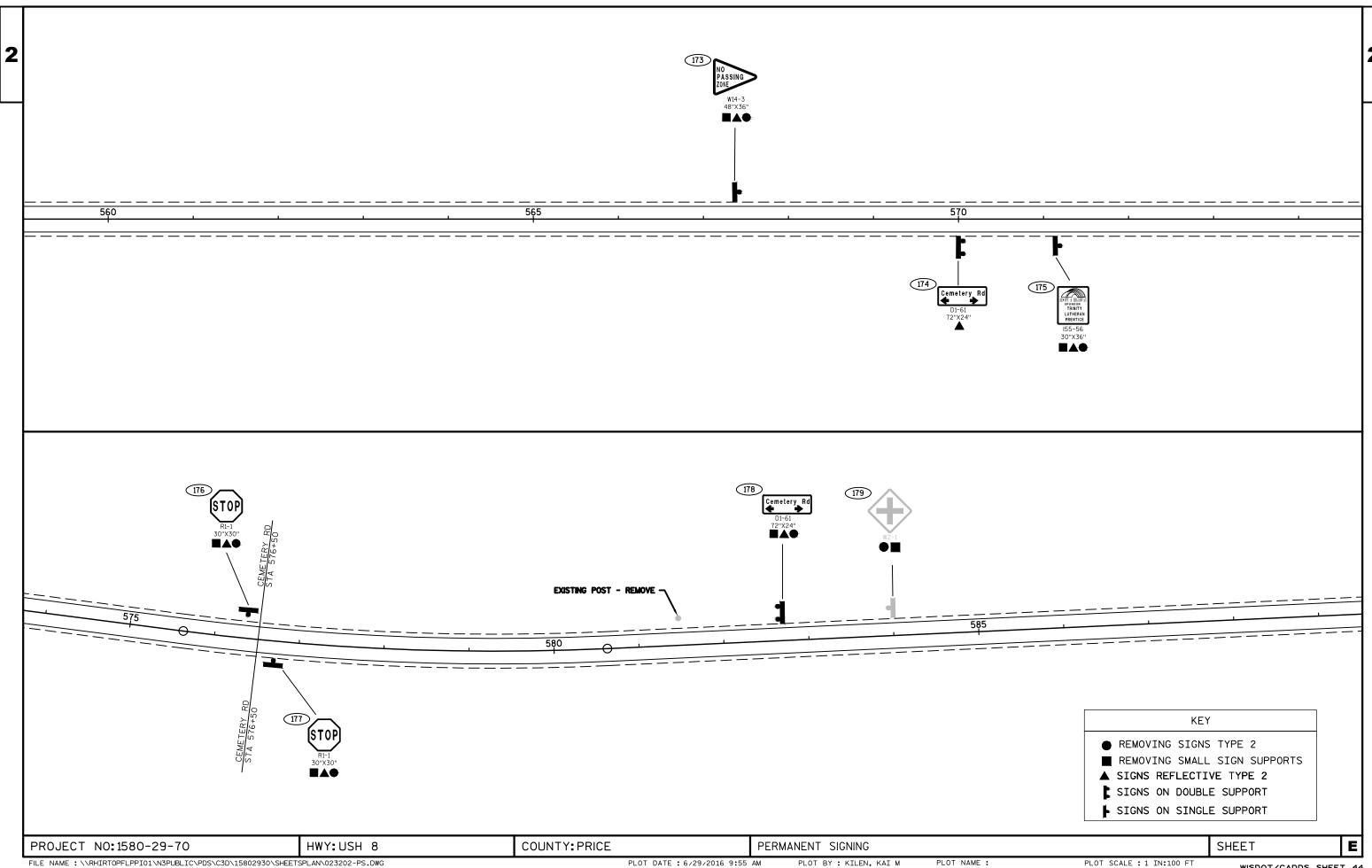


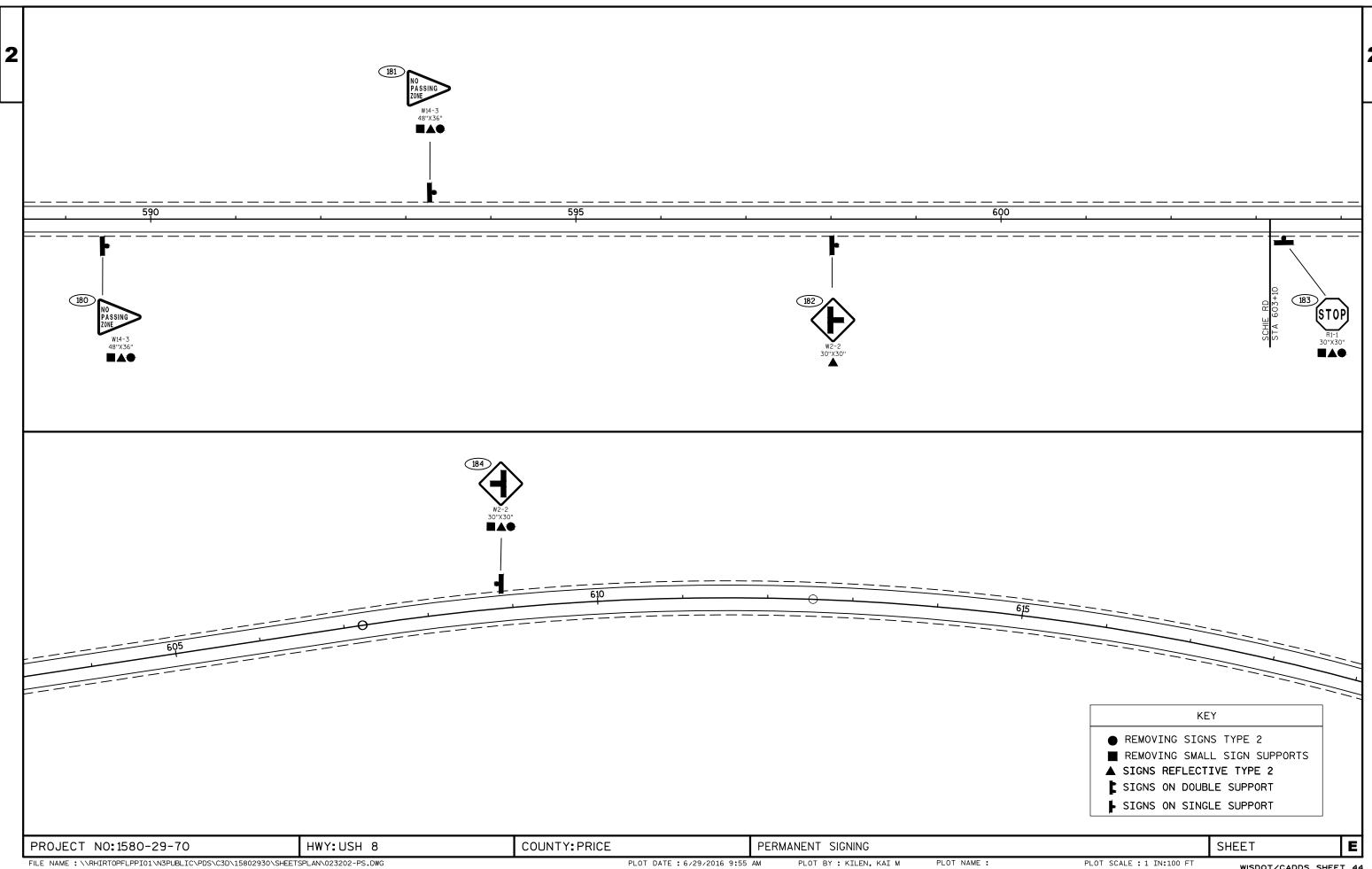


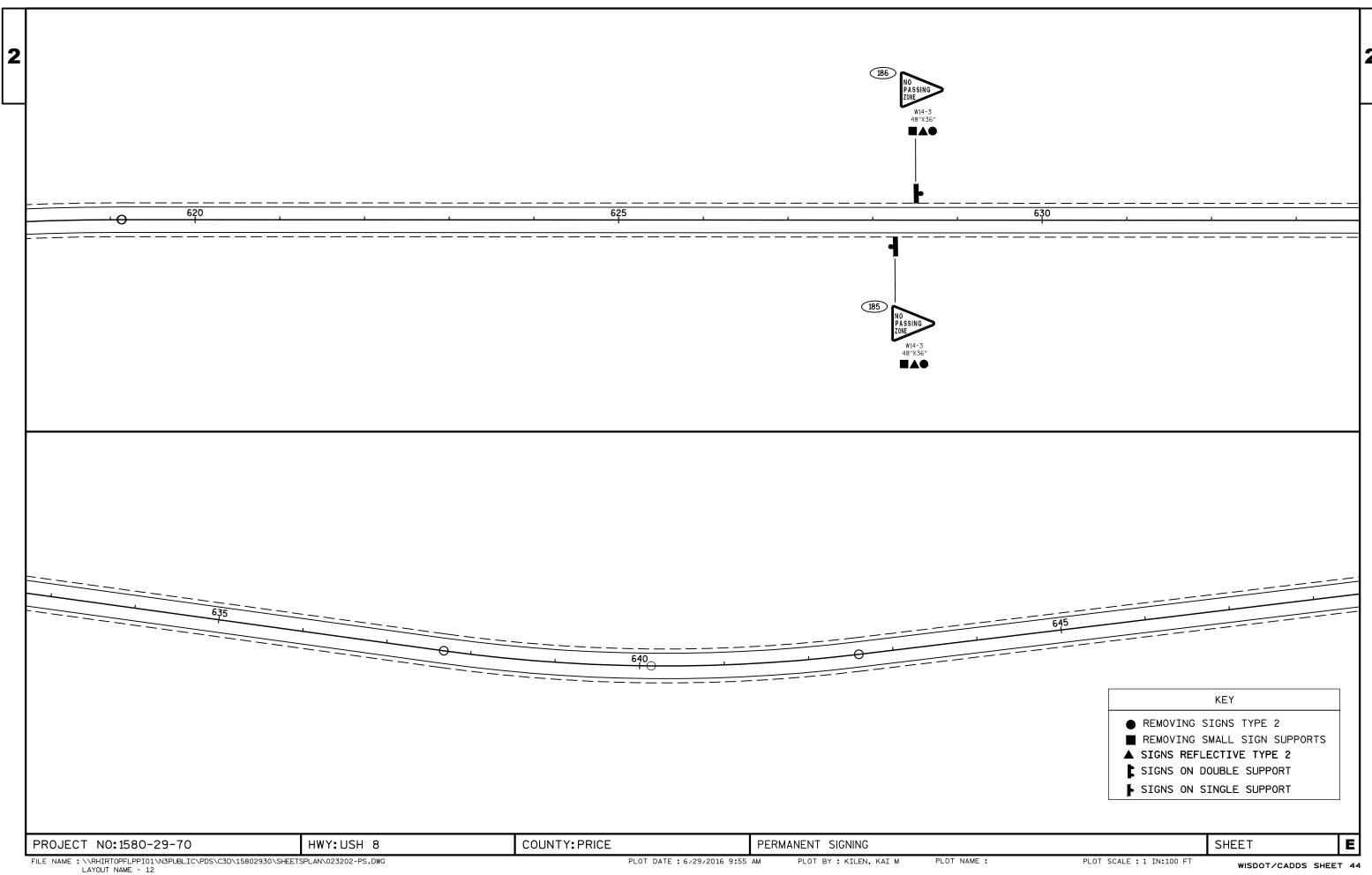


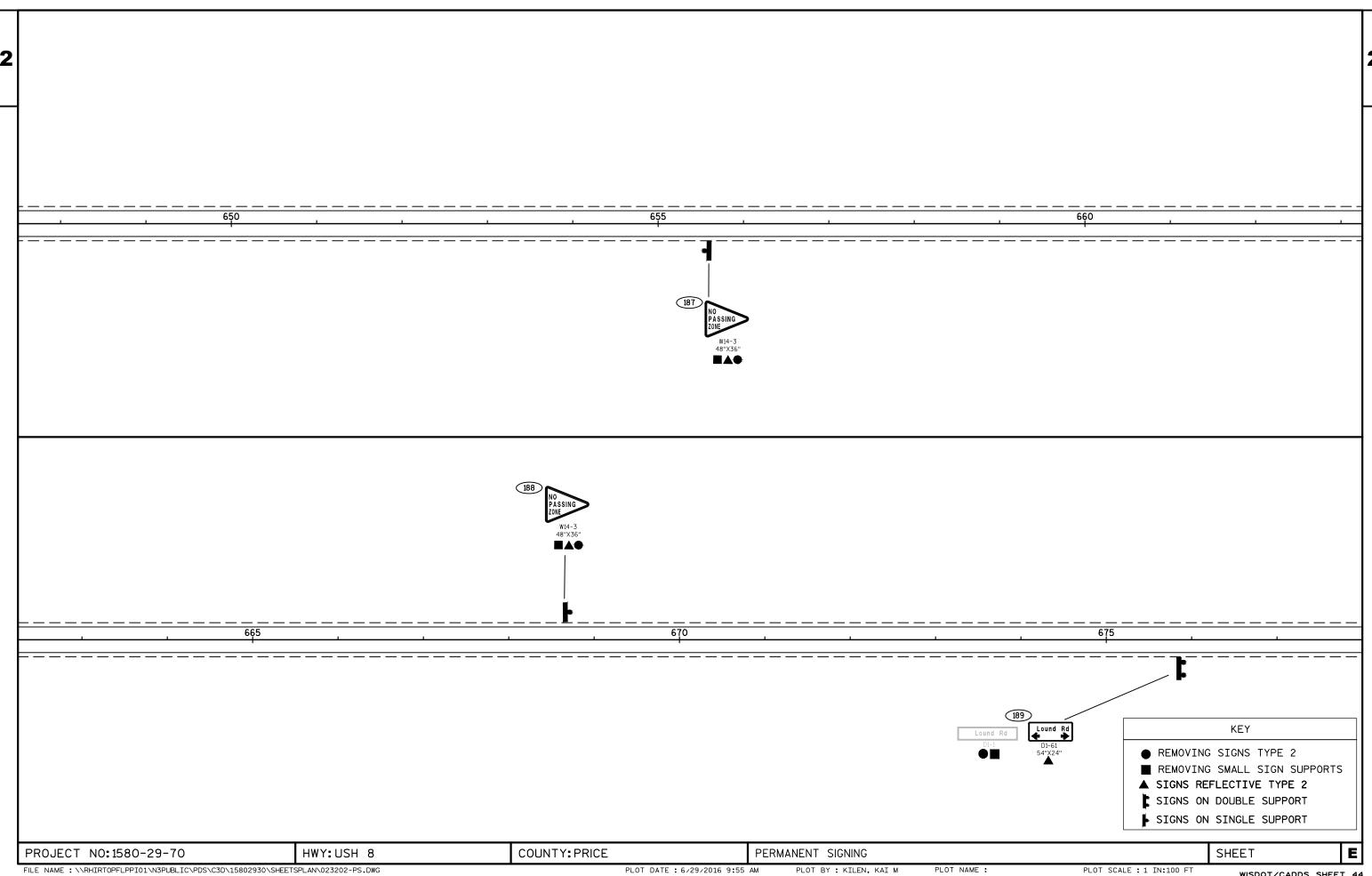


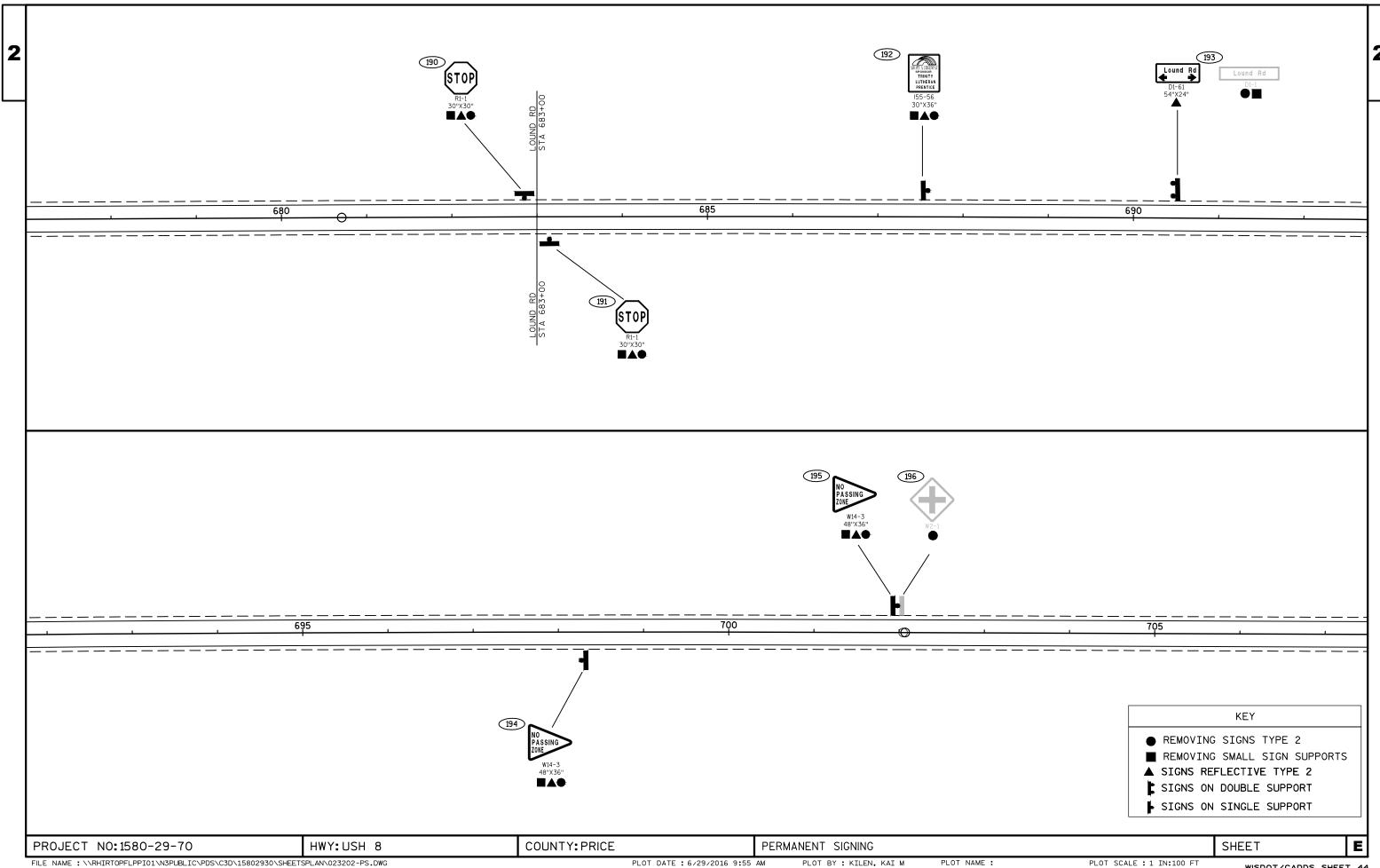


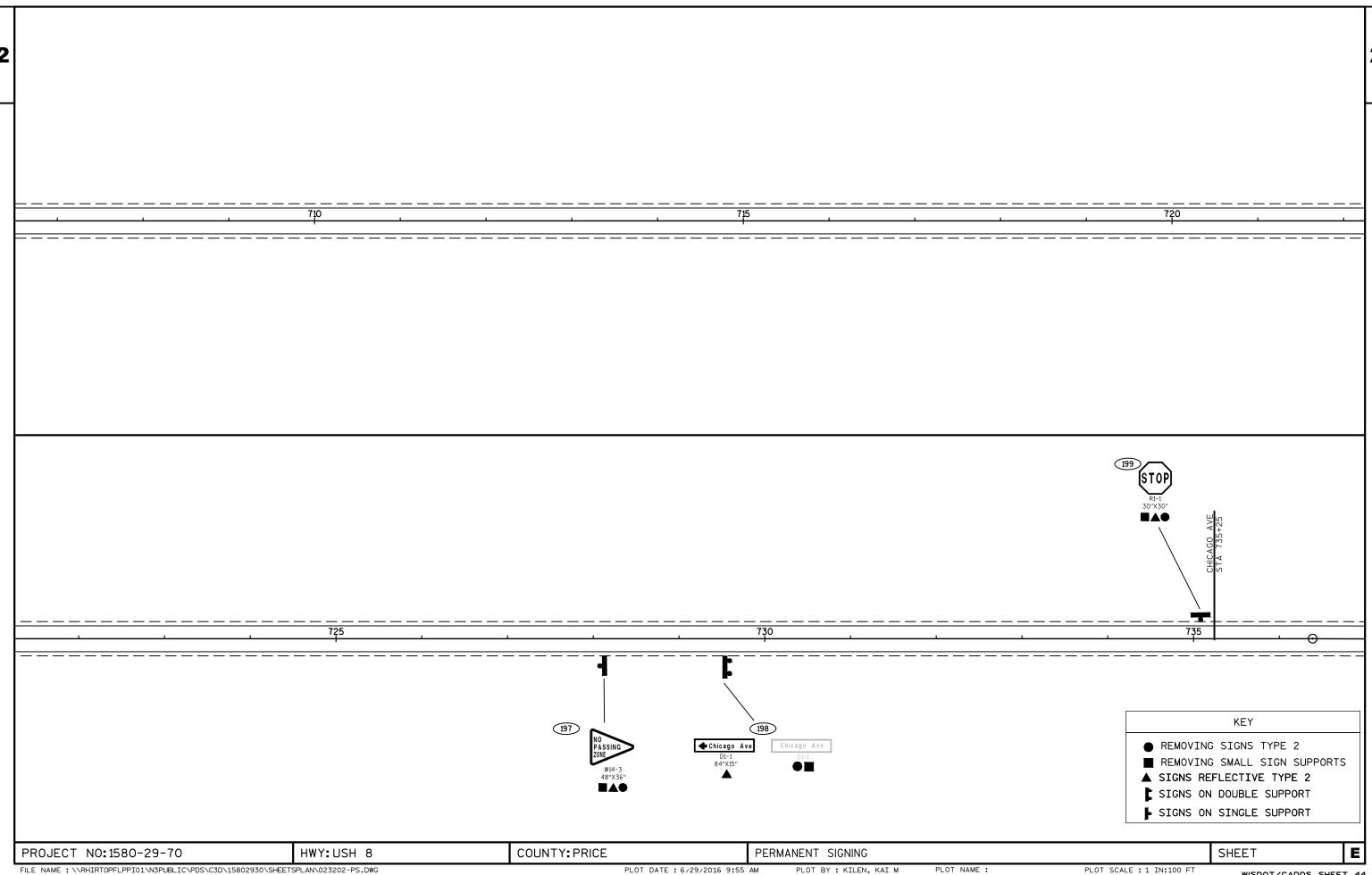


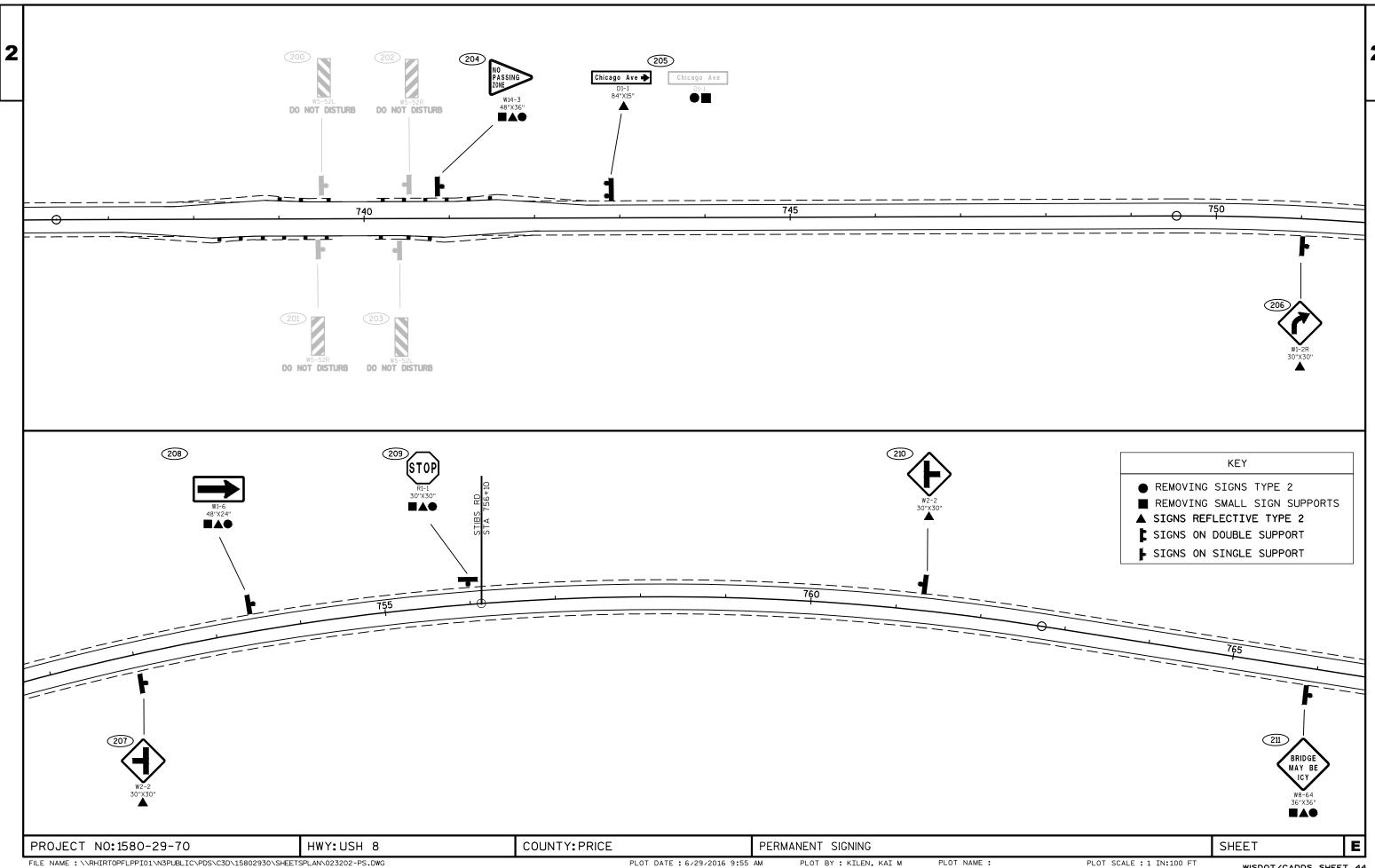


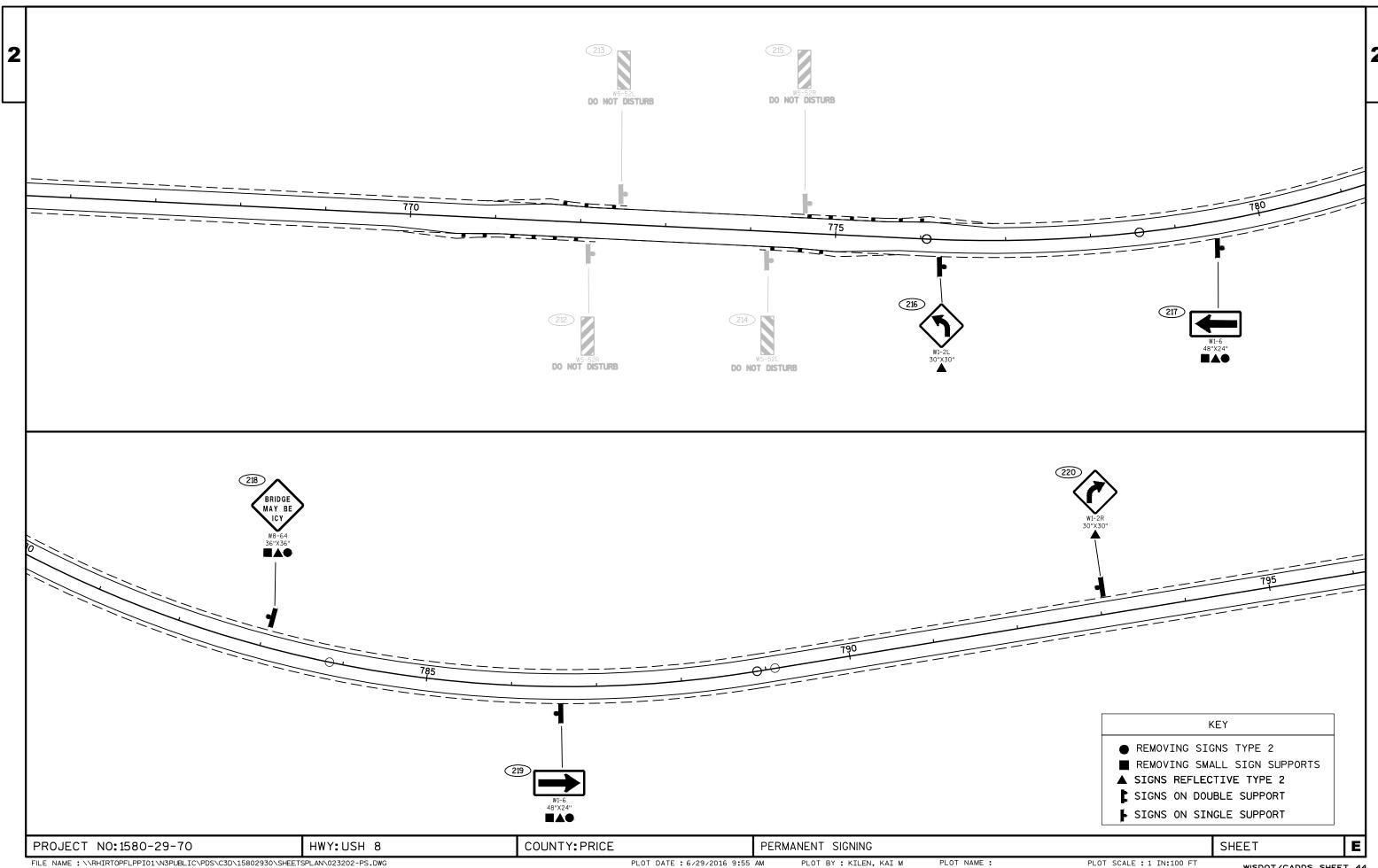


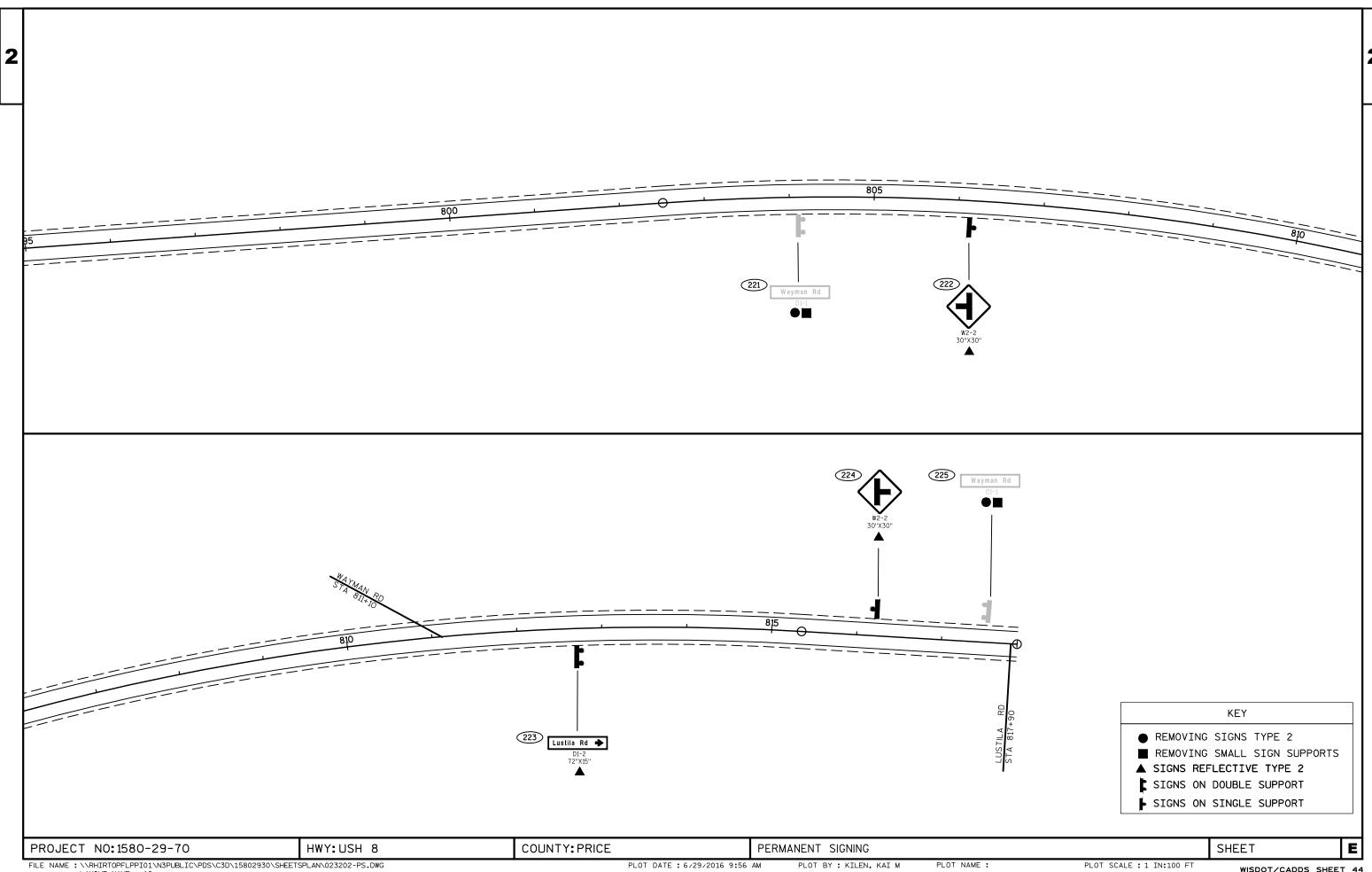


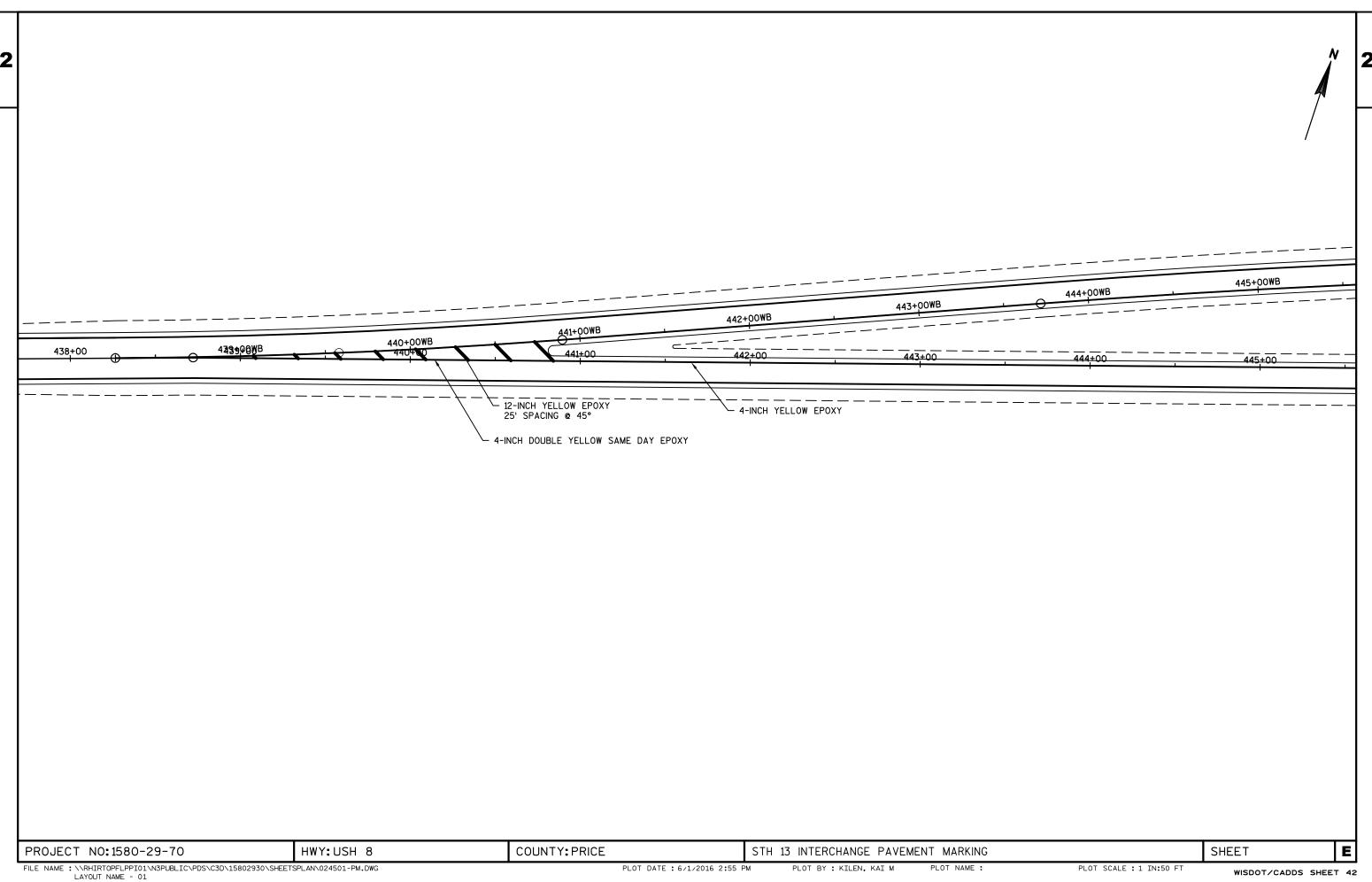


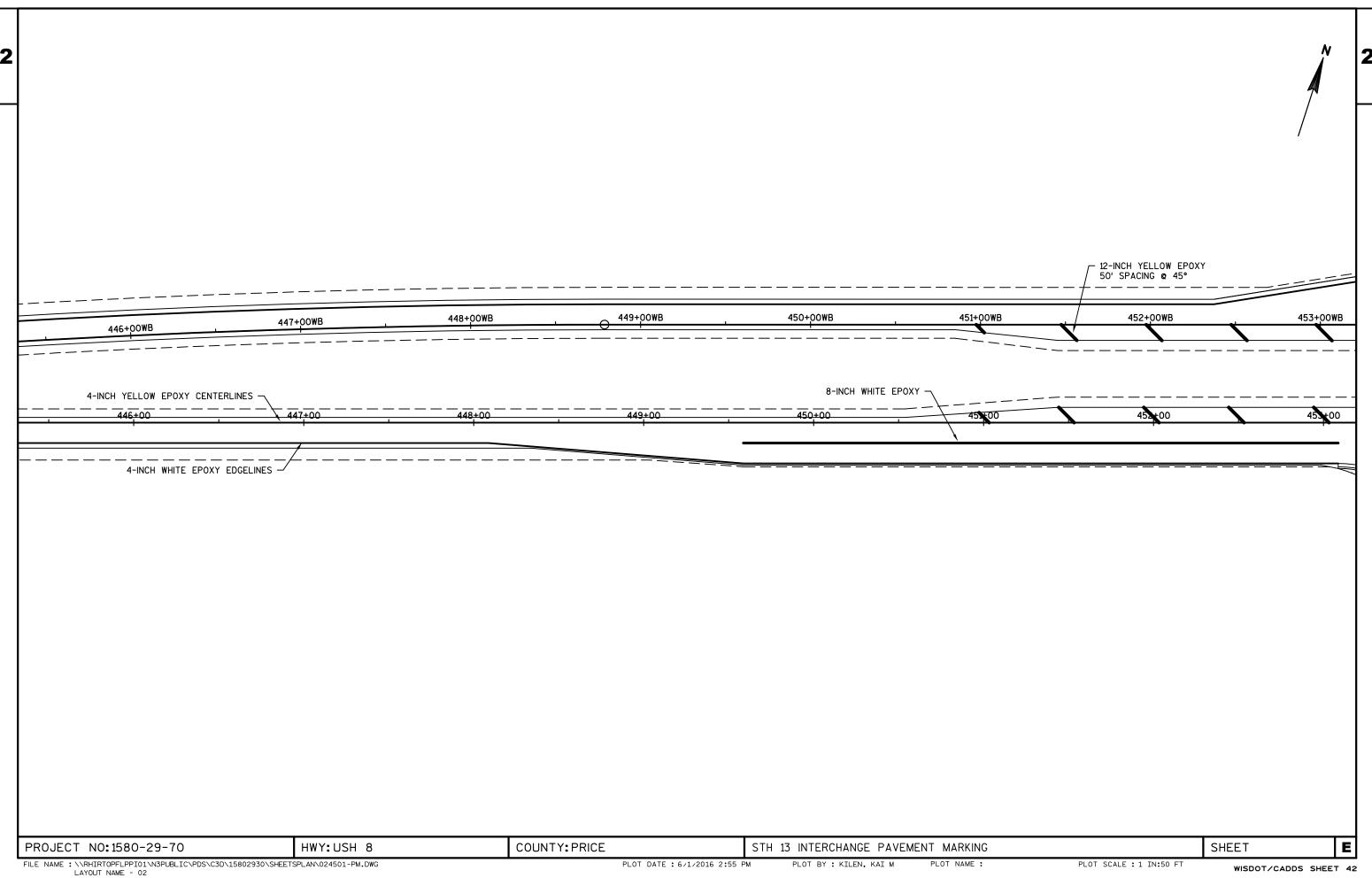


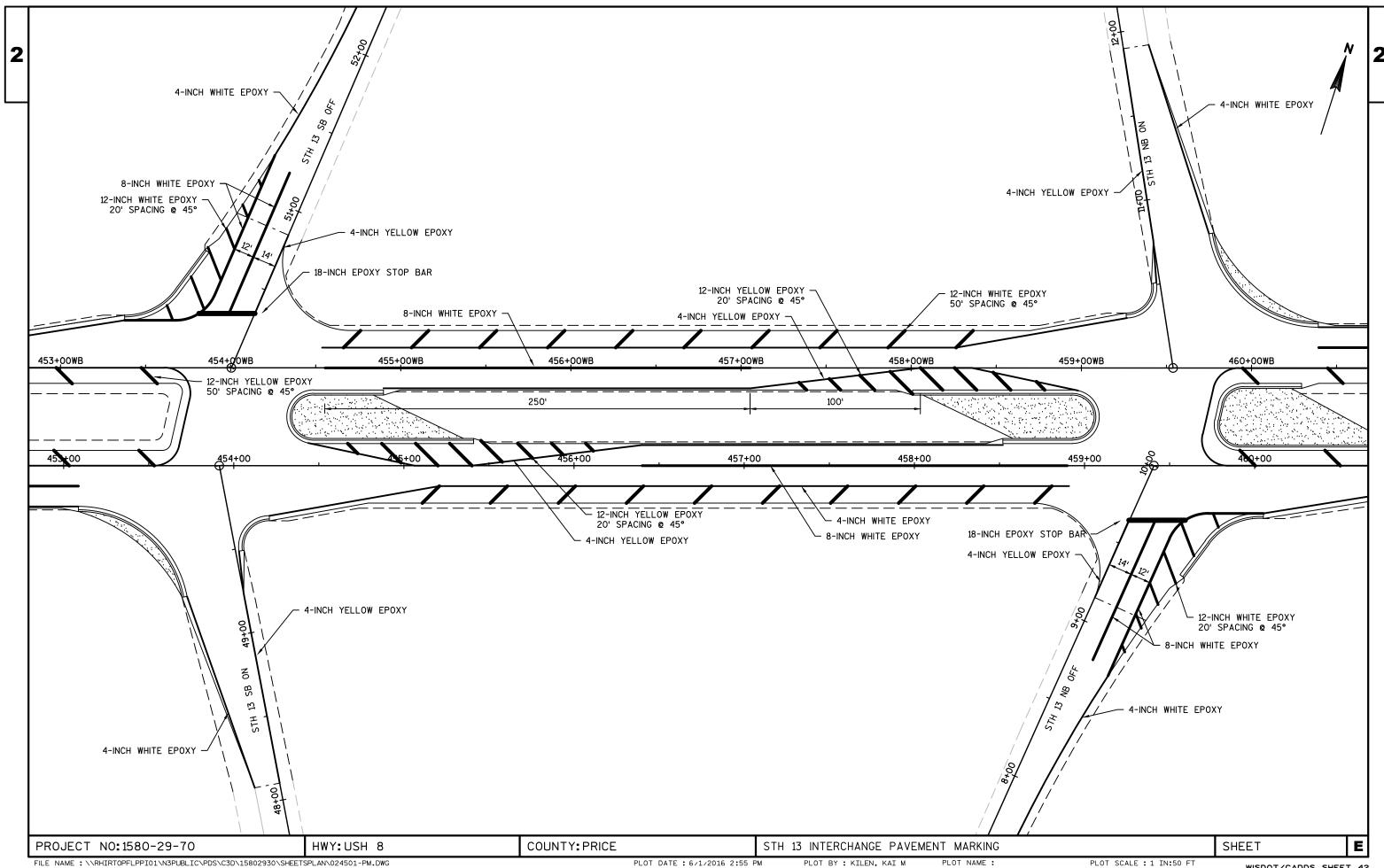


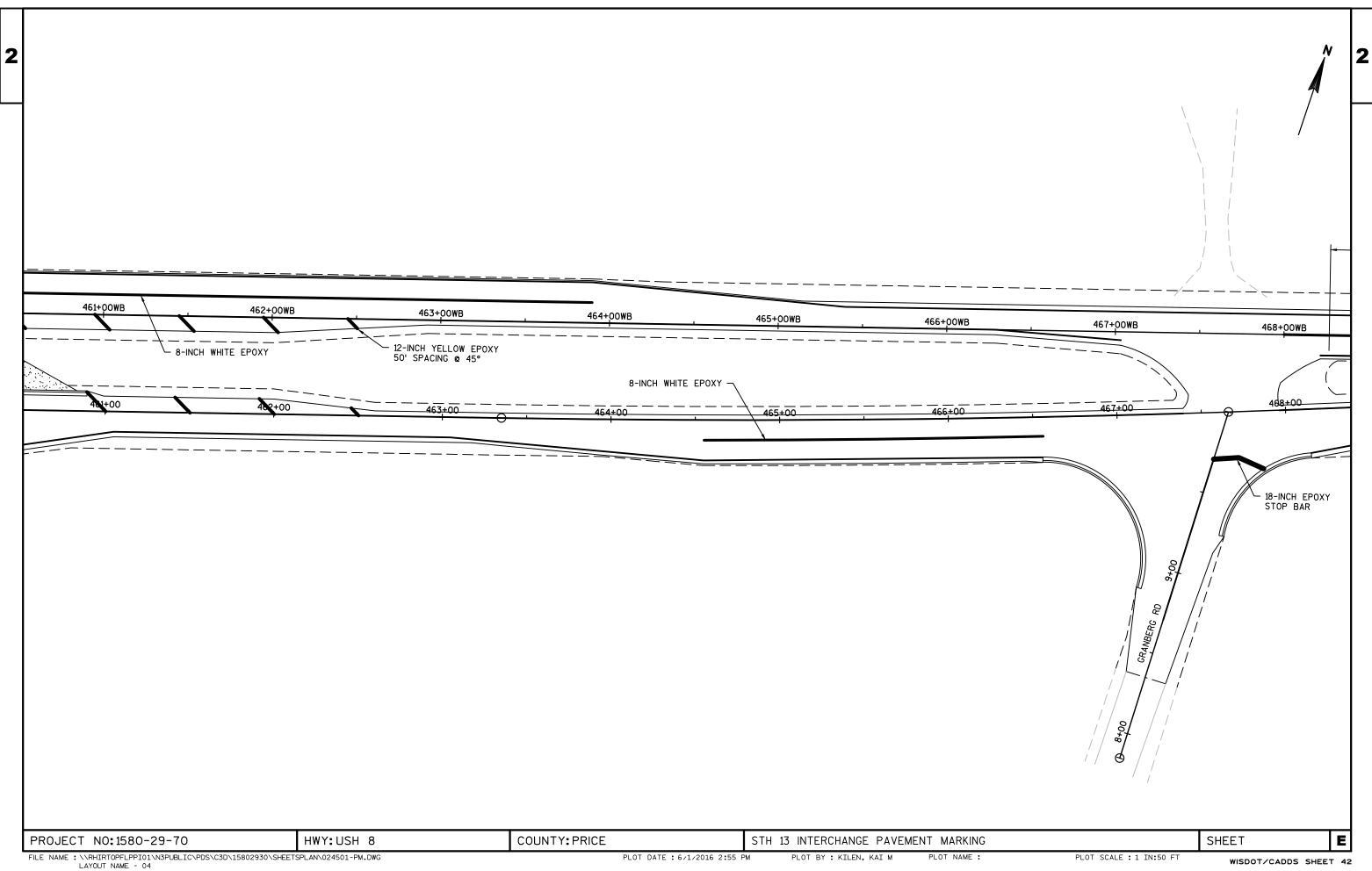


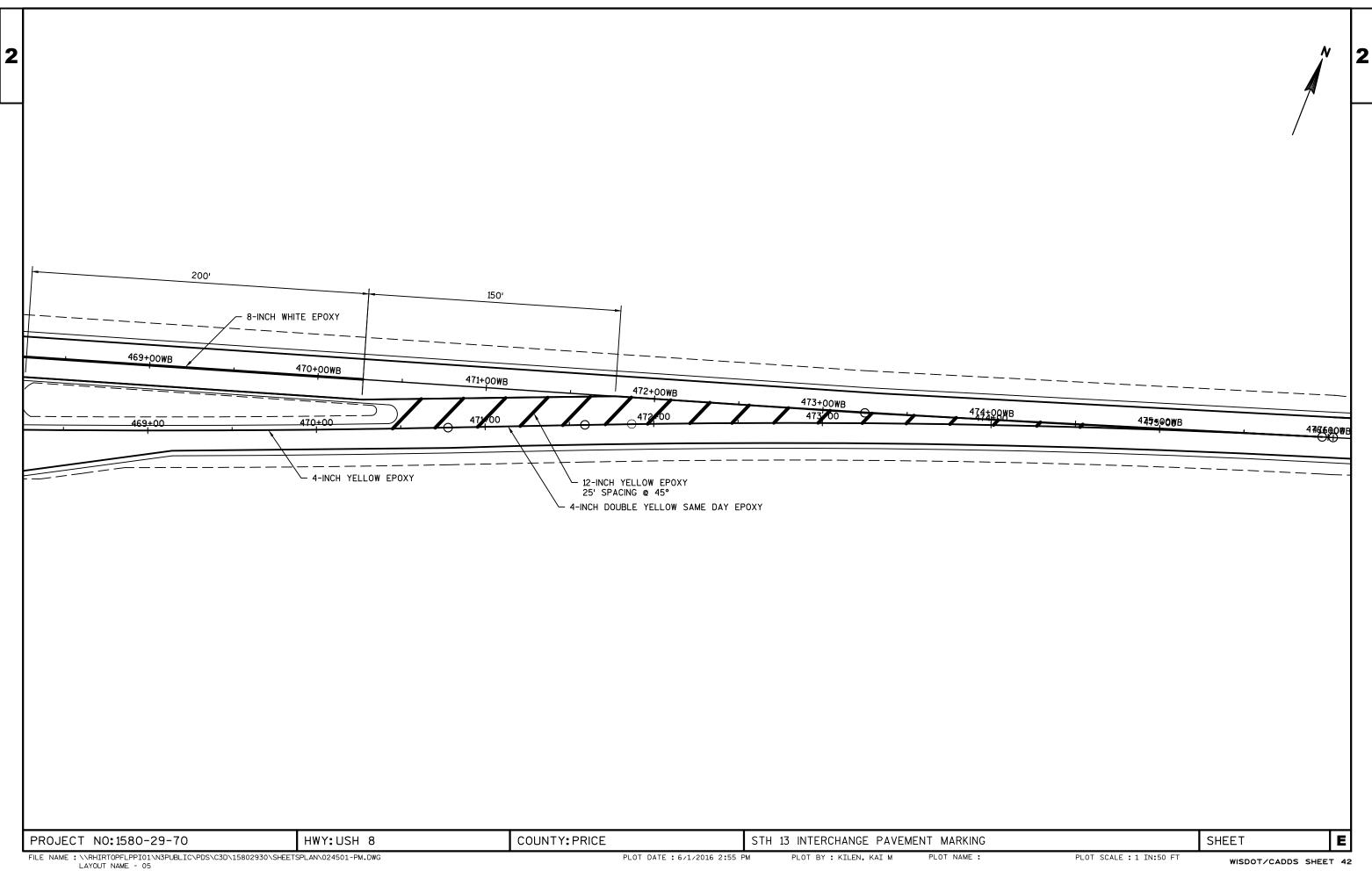


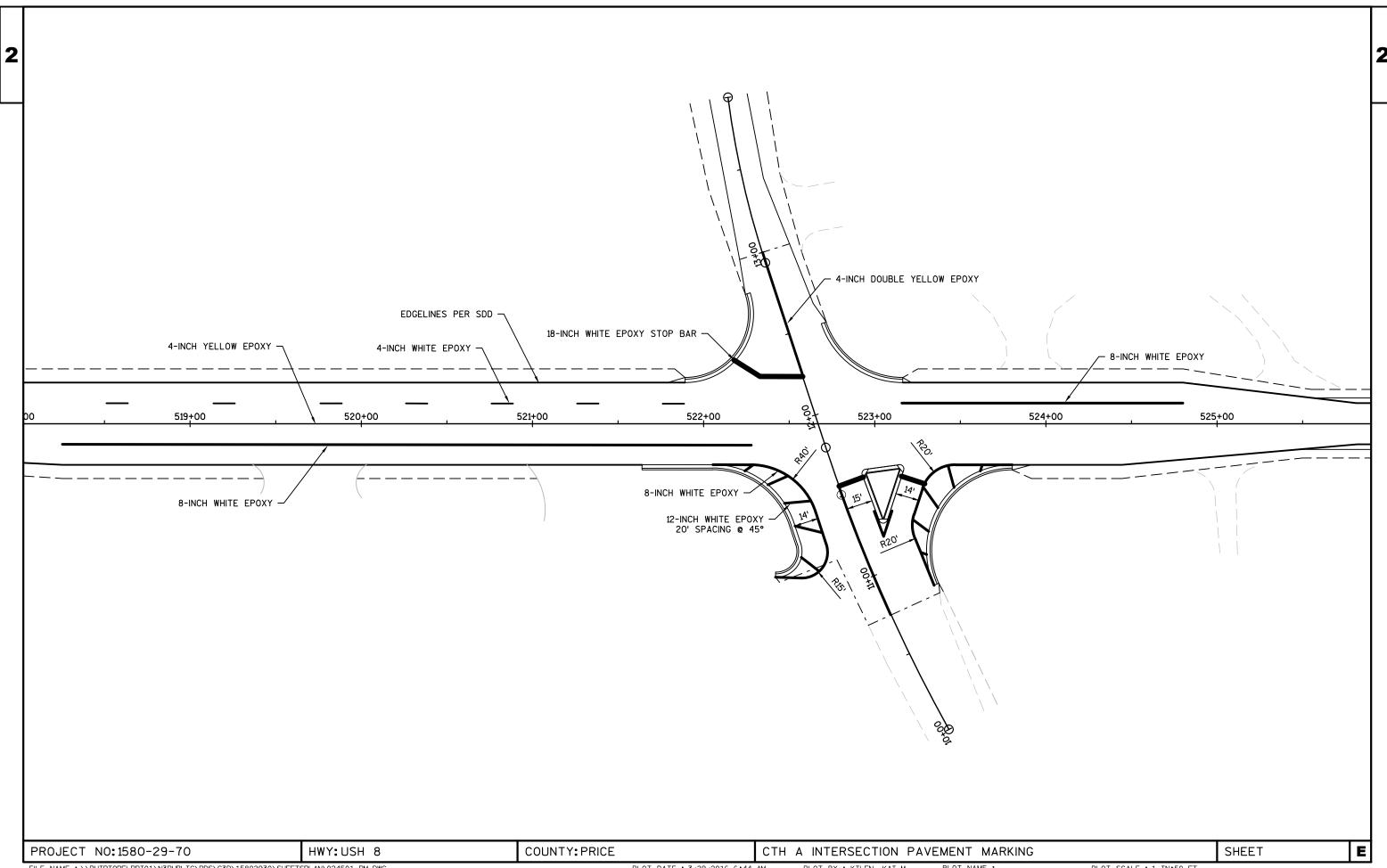


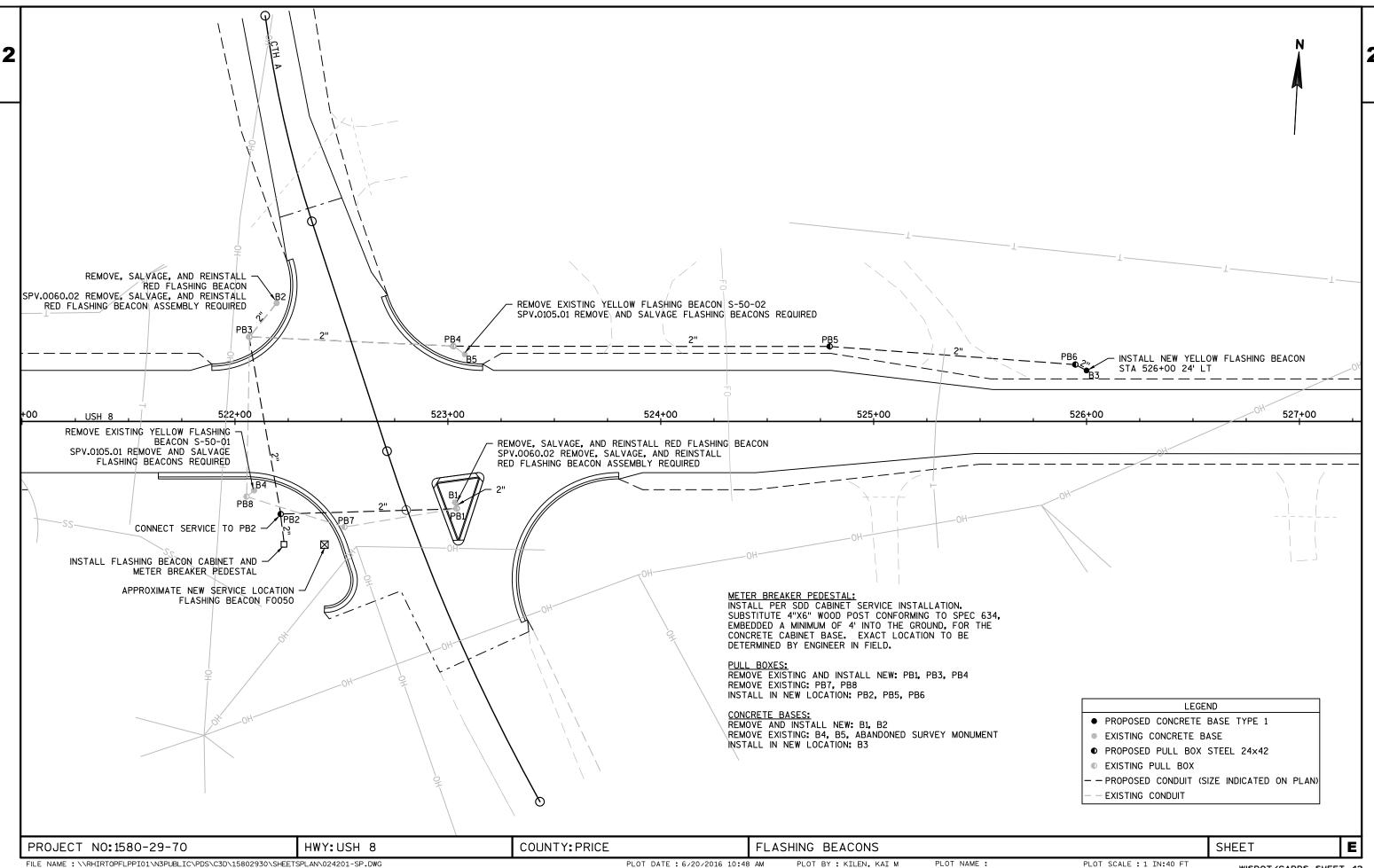


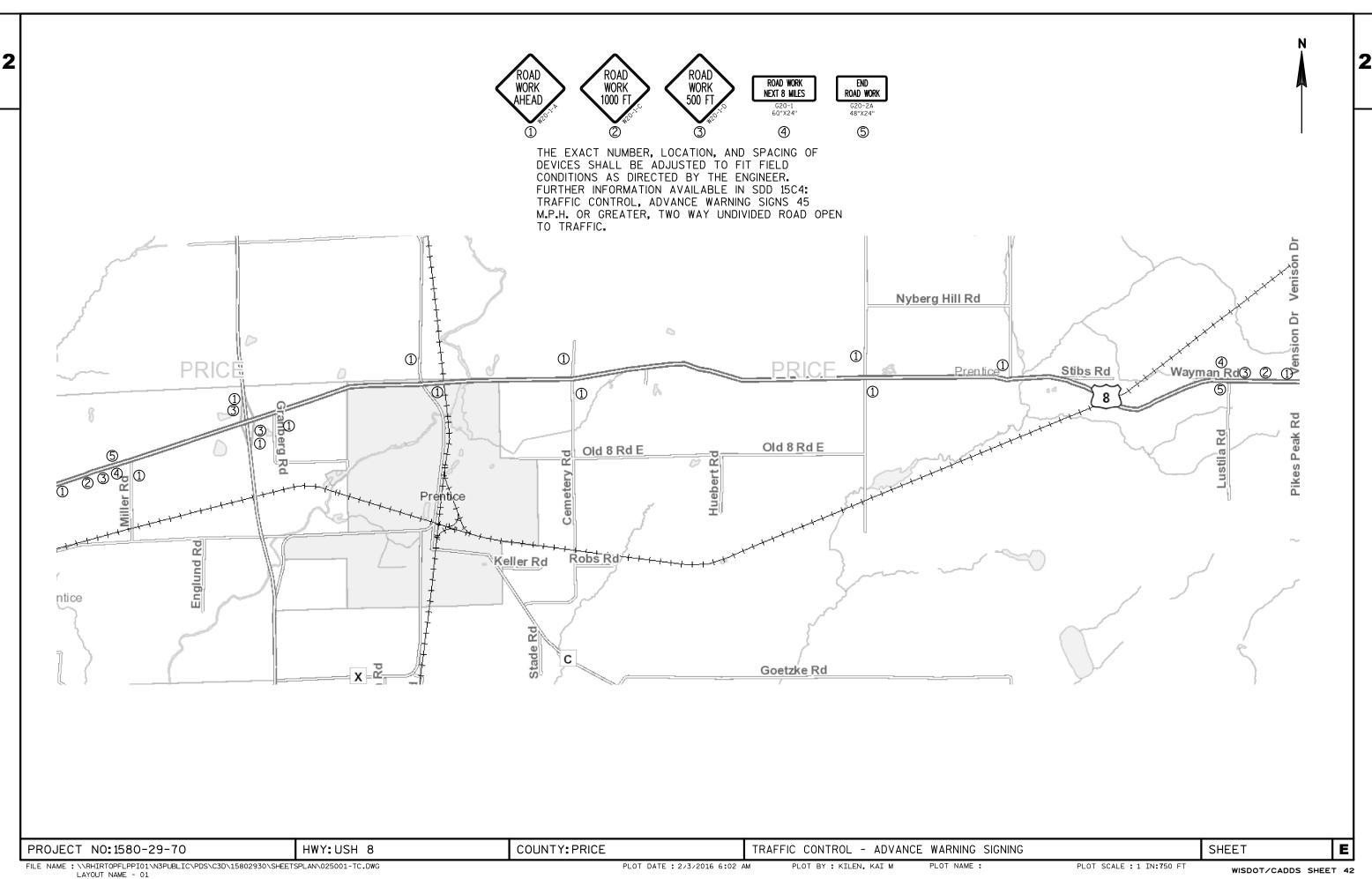


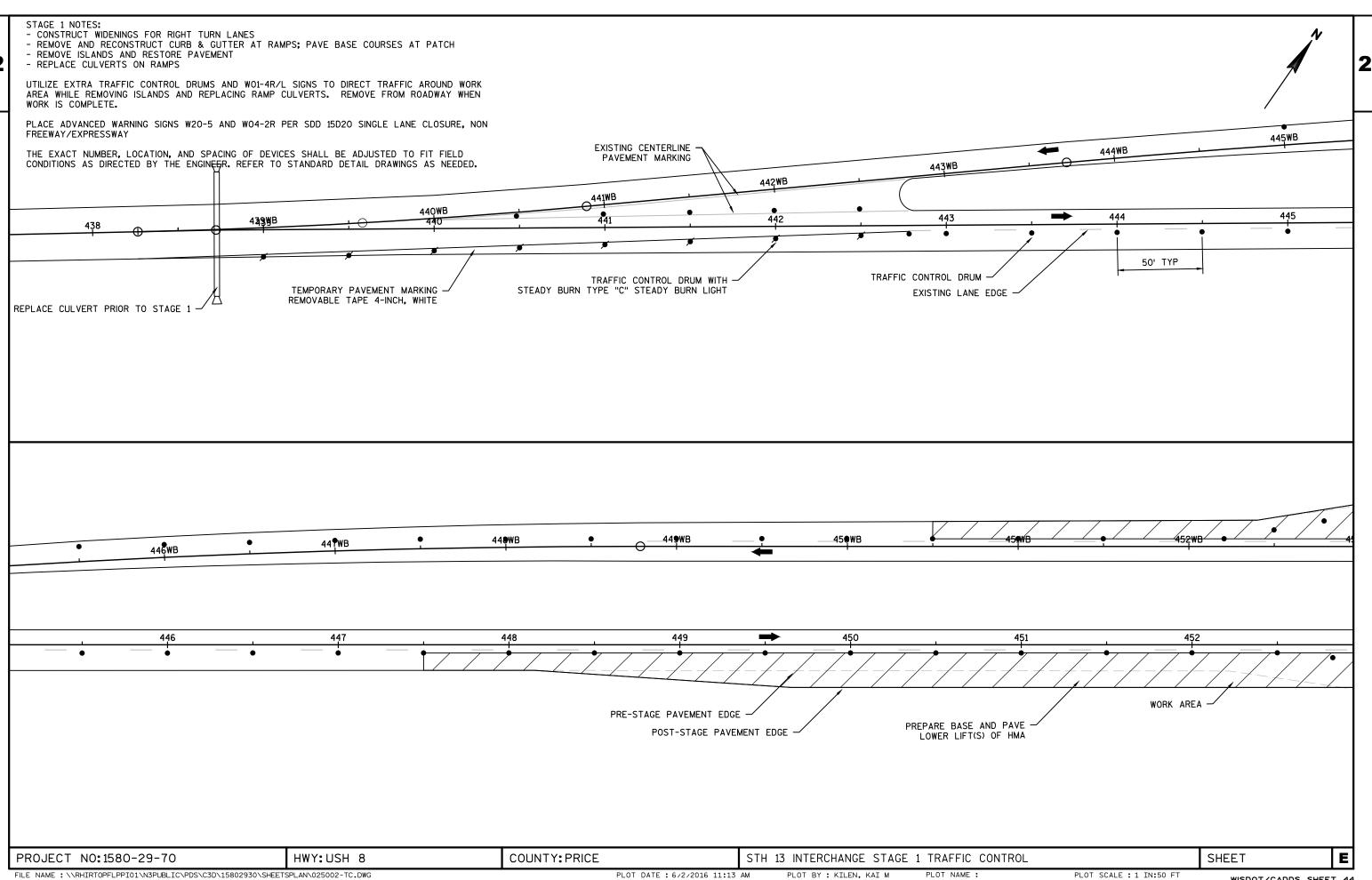


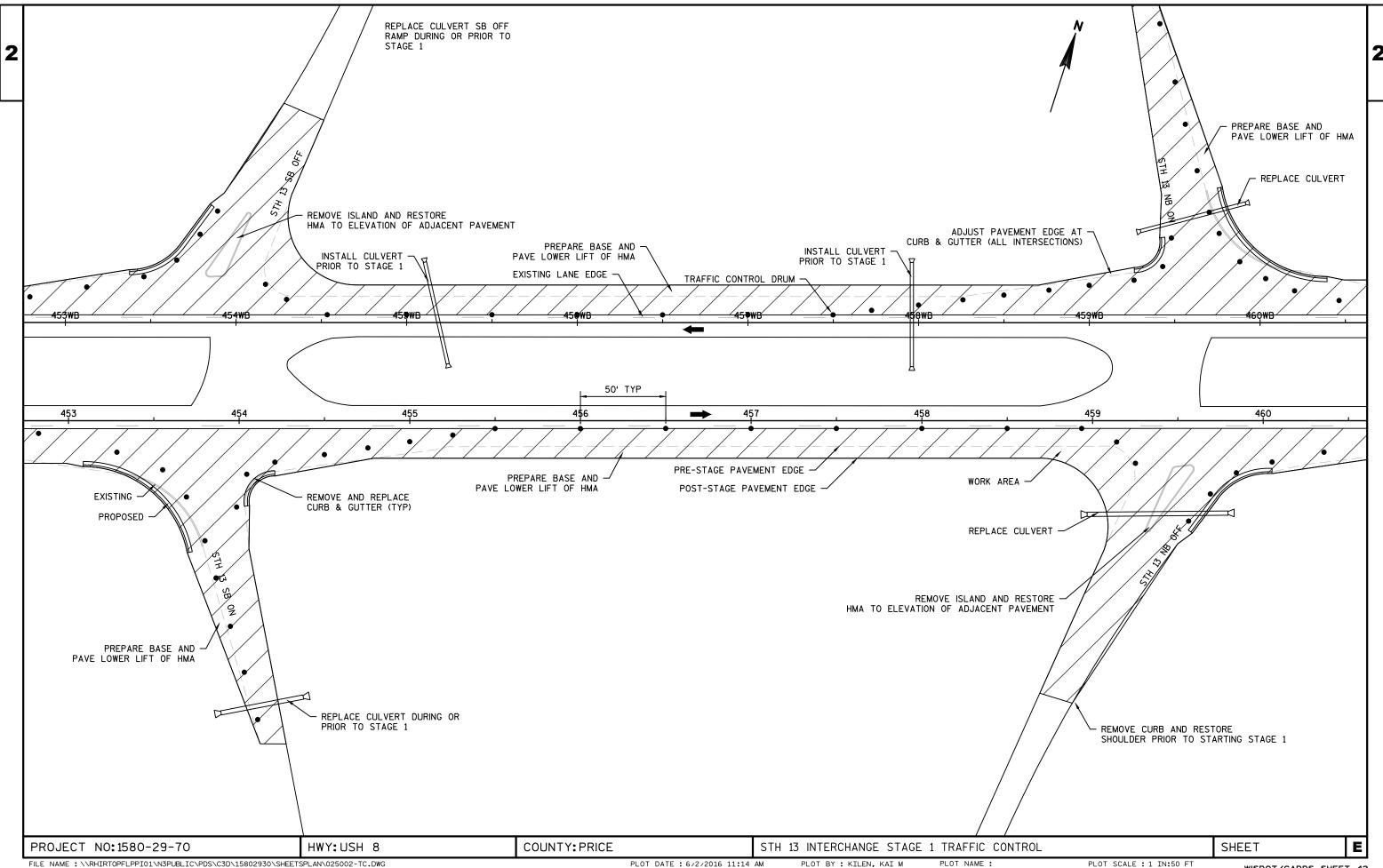


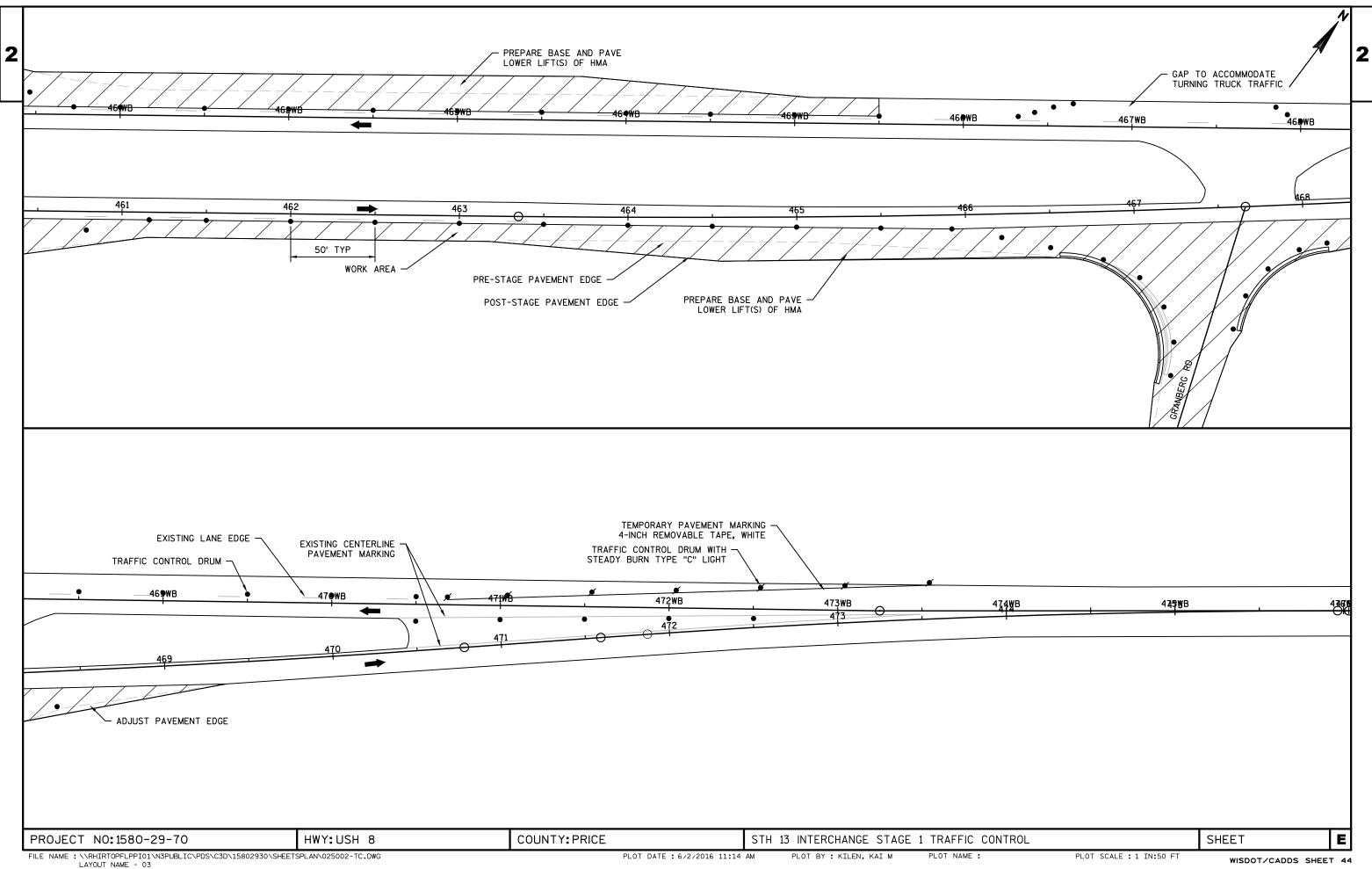


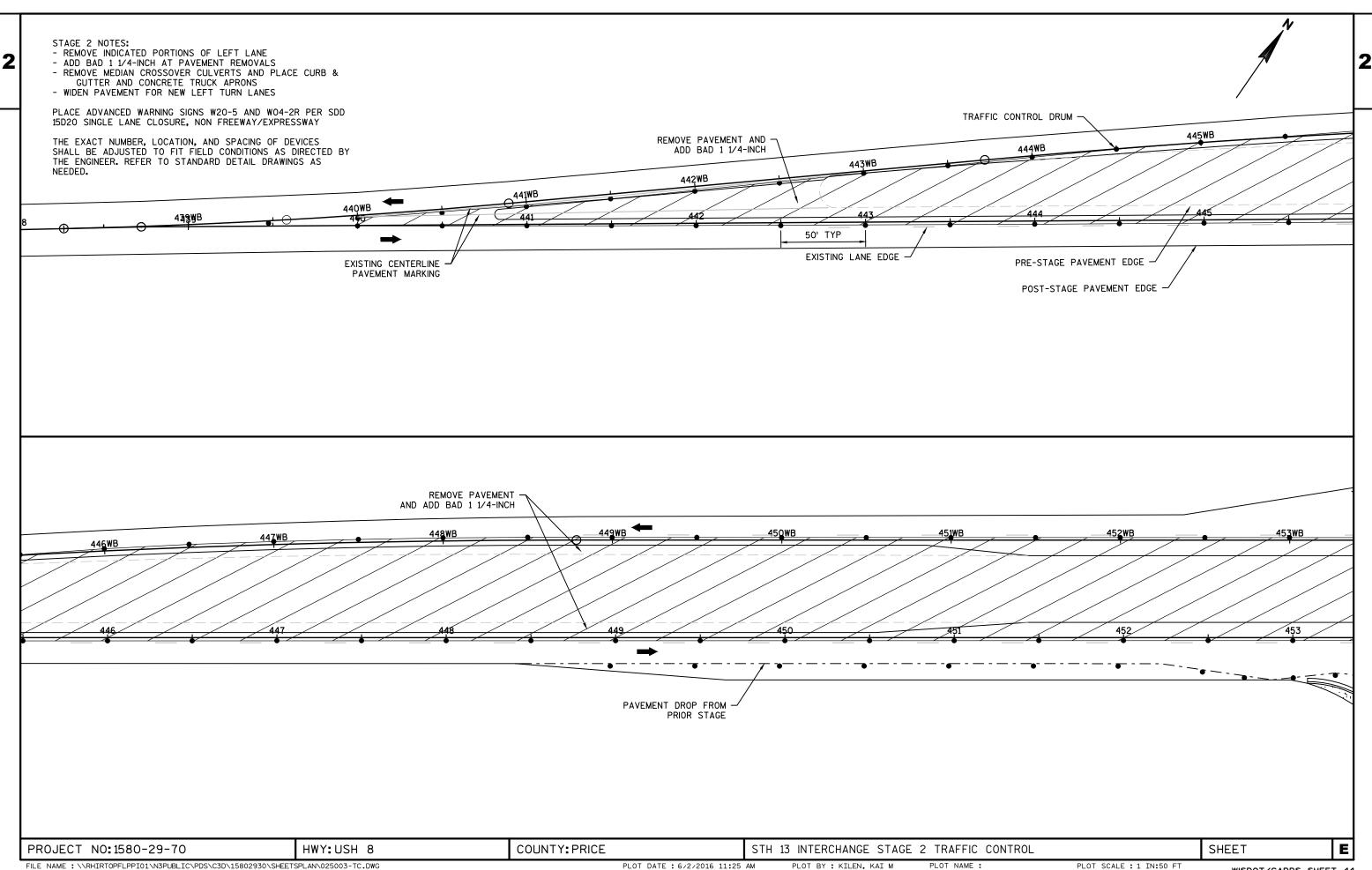


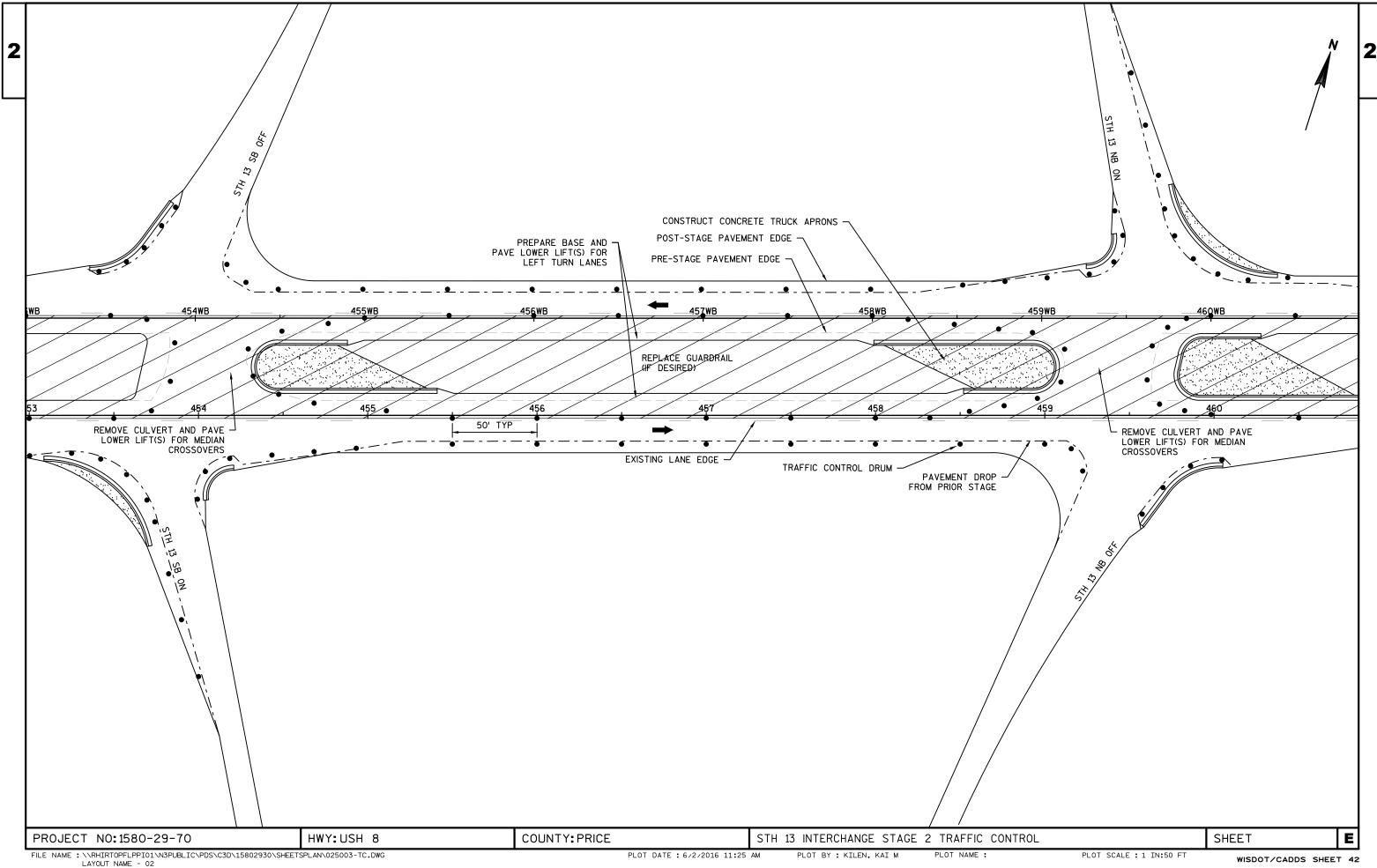


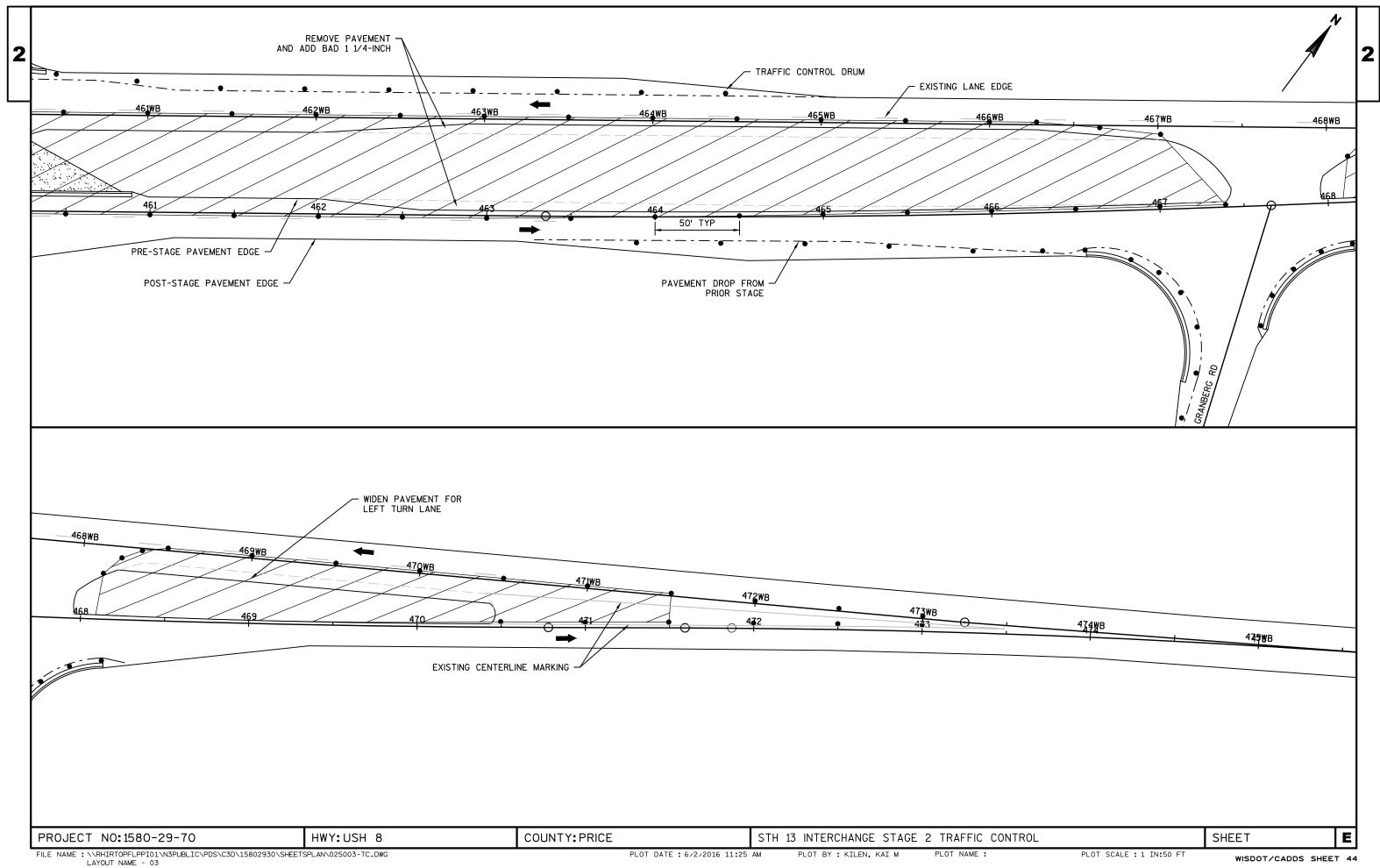


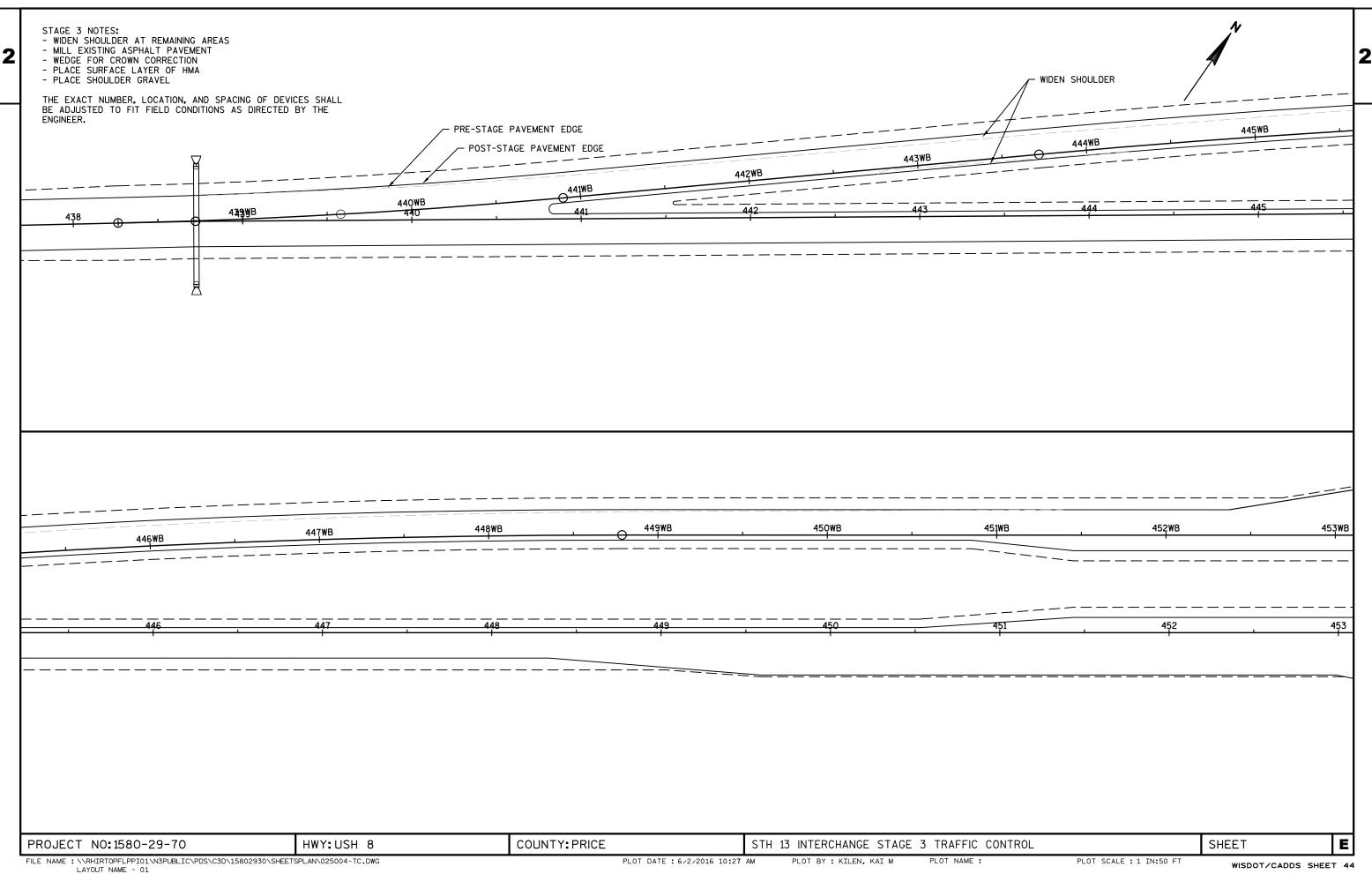


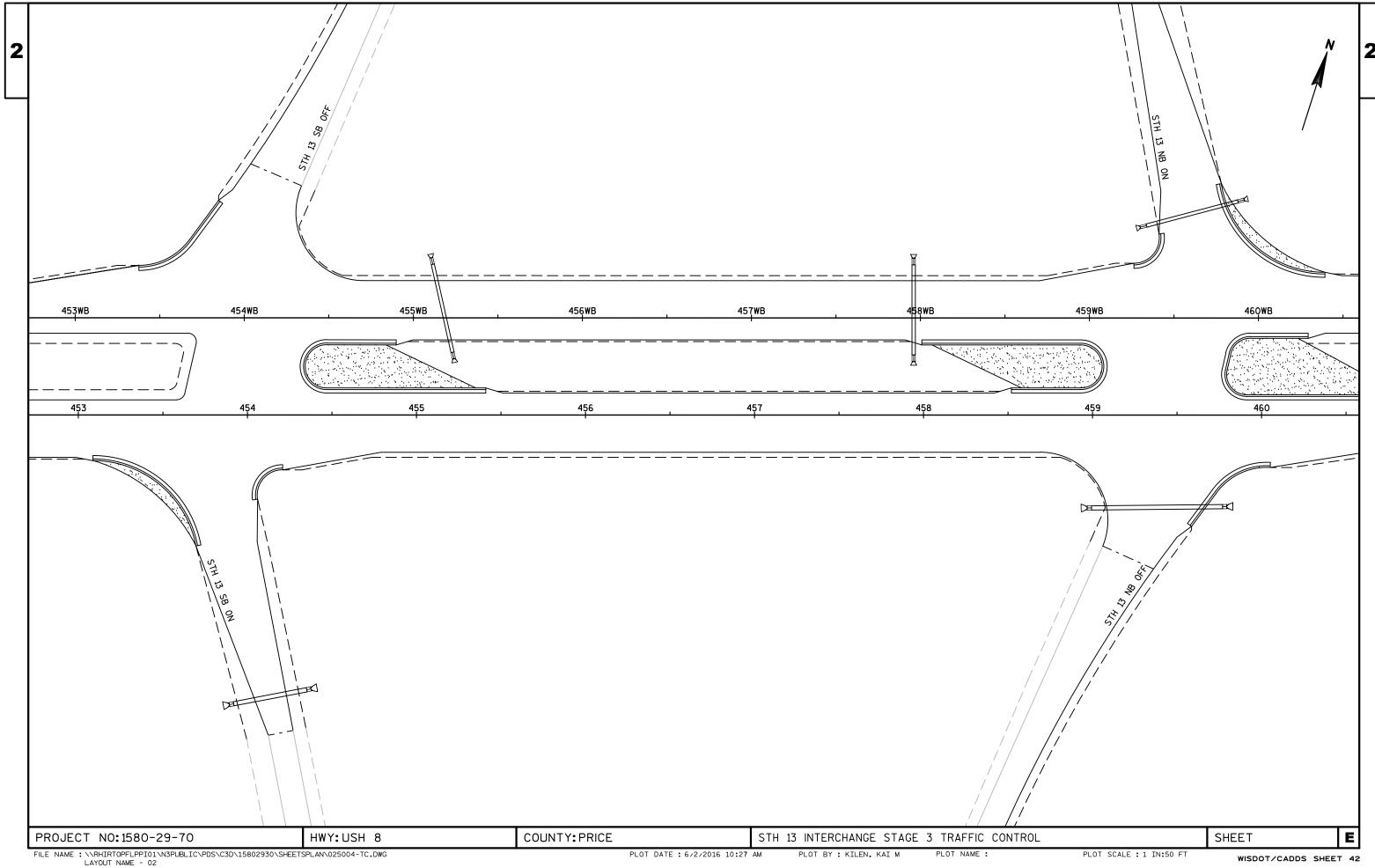


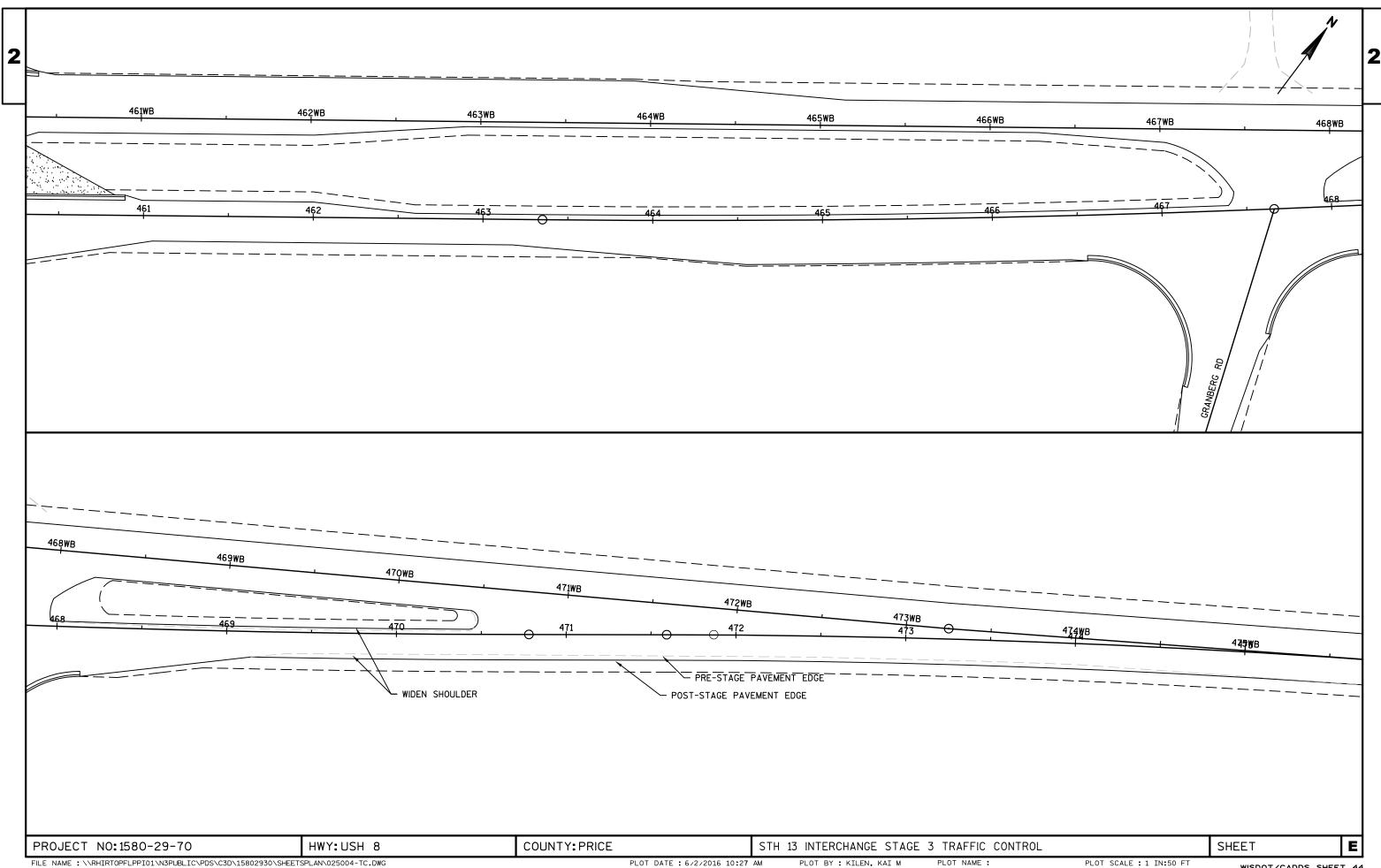








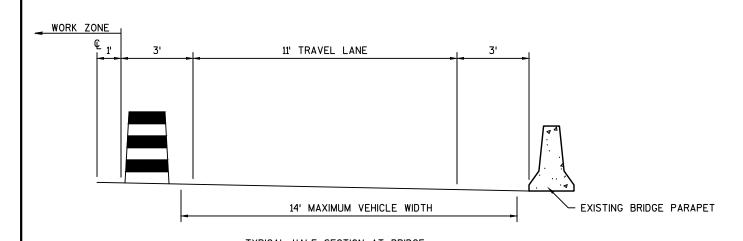




GENERAL NOTES:
THE EXACT NUMBER, LOCATION, AND SPACING OF DEVICES SHALL
BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

REFER TO SDD 15D33 ONE LANE ROAD WITH TEMPORARY SIGNALS FOR ADDITIONAL DETAILS, INCLUDING ADVANCE WARNING SIGNAGE

MIRROR LAYOUT AS NEEDED FOR WESTBOUND LANE CLOSURE







STA 764+75 RT & LT STA 781+90 RT & LT STA 786+90 RT & LT



STA 759+75 RT STA 791+90 LT



STA 754+75 RT STA 796+90 LT



STA 749+75 RT STA 801+90 LT

## TEMPORARY TRAFFIC SIGNAL TIMING

ALL TIMES LISTED IN SECONDS

SEQUENCE 1: 6:00 AM TO 8:00 PM

TOTAL CYCLE TIME = 124.0

EASTBOUND	WESTBOUND	YELLOW	ALL RED	GREEN
RED	RED		23.0	
GREEN	RED			34.0
YELLOW	RED	5.0		
RED	RED		23.0	
RED	GREEN			34.0
RED	YELLOW	5.0		
	TOTAL:	10.0	46.0	68.0

**SEQUENCE 2: 8:00 PM TO 6:00 AM** 

TOTAL CYCLE TIME = 88.0

EASTBOUND	WESTBOUND	YELLOW	ALL RED	GREEN
RED	RED		23.0	
GREEN	RED			16.0
YELLOW	RED	5.0		
RED	RED		23.0	
RED	GREEN			16.0
RED	YELLOW	5.0		
	TOTAL:	10.0	46.0	32.0



WIDTH RESTRICTION ADVANCE WARNING:
STH 13 (6 MILES AHEAD)
PRICE CTH A (5 MILES AHEAD)
PRICE CTH D (4 MILES AHEAD)
USH 51 (30 MILES AHEAD)

PROJECT NO:1580-29-70

HWY: USH 8

COUNTY: PRICE

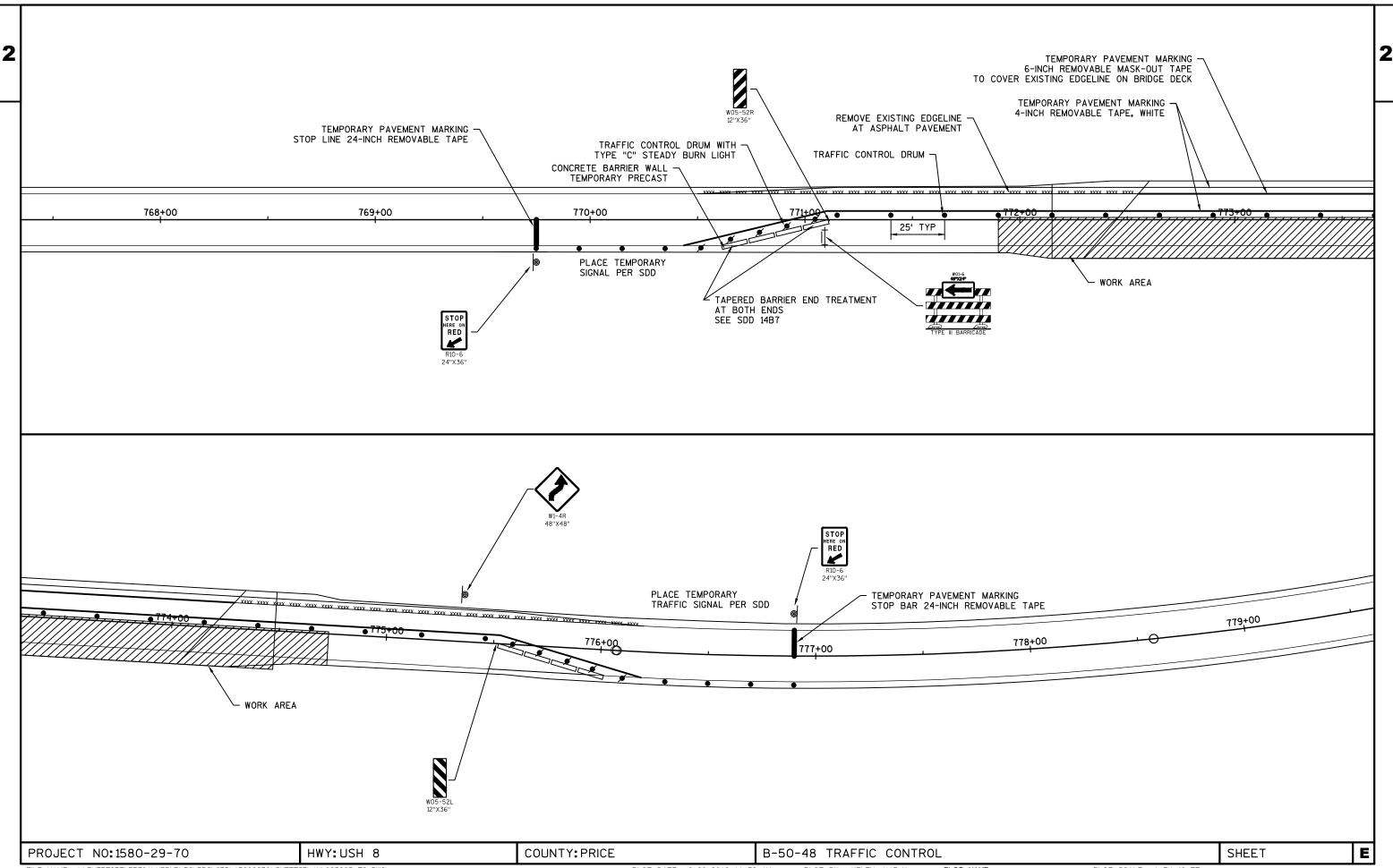
B-50-48 TRAFFIC CONTROL

PLOT BY : KILEN, KAI M

PLOT SCALE : 1 IN:40 FT

SHEET

E



DATE 13 LINE	30CT16	Ε	STIMATE	OF QUAN	T I T I E S 1580-29-70
NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0105	CI eari ng	STA	3.000	3. 000
0020 0030	201. 0205 203. 0100	Grubbing Removing Small Pipe Culverts	STA EACH	3. 000 9. 000	3. 000 9. 000
0040	204. 0100	Removing Pavement	SY	1, 145. 000	1, 145. 000
0050	204. 0110	Removing Asphaltic Surface	SY	2, 075. 000	2, 075. 000
0060	204. 0115	Removing Asphaltic Surface Butt Joints		830.000	830.000
0070 0080	204. 0120 204. 0150	Removing Asphaltic Surface Milling Removing Curb & Gutter	SY LF	142, 010. 000 1, 600. 000	142, 010. 000 1, 600. 000
0090	204. 0165	Removing Guardrail	LF	1, 080. 000	1, 080. 000
0100	204. 0180	Removing Delineators and Markers	EACH	32.000	32. 000
0110	204. 0195	Removing Concrete Bases	EACH	5. 000	5. 000
0120	204. 9060. \$	S Removing (item description) 01. Apron Endwalls	EACH	2. 000	2. 000
0130	205. 0100	Excavation Common	CY	1, 248. 000	1, 248. 000
0140	208. 0100	Borrow  Propago Foundation for Asphaltic Pavin	CY ng LS	1, 079. 000 1. 000	1, 079. 000 1. 000
0150	211. 0100	Prepare Foundation for Asphaltic Pavin (project) 01. 1580-29-70	ig L3	1.000	1.000
0160	211. 0400	Prepare Foundation for Asphaltic Shoulders	STA	80. 000	80. 000
0170	211. 0500	Prepare Foundation for Base Aggregate	STA	4.000	4. 000
0180	213. 0100	Finishing Roadway (project) 01. 1580-29-70	EACH	1. 000	1. 000
0190	305. 0110	Base Aggregate Dense 3/4-Inch	TON	6, 200. 000	6, 200. 000
0200	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	3, 210. 000	3, 210. 000
0210	305. 0500	Shapi ng Shoul ders	STA	866.000	866. 000
0220	405. 0100	Coloring Concrete WisDOT Red	CY	247.000	247. 000
0230	415. 0410	Concrete Pavement Approach SI ab	SY	237. 000	237. 000
0240 0250	416. 0512 440. 4410	Concrete Truck Apron 12-Inch Incentive IRI Ride	SY DOL	743. 000 29, 520. 000	743. 000 29, 520. 000
0260	450. 4000	HMA Cold Weather Paving	TON	3, 030. 000	3, 030. 000
0270	455. 0605	Tack Coat	GAL	9, 209. 000	9, 209. 000
0280	460. 2000	Incentive Density HMA Pavement	DOL	19, 410. 000	19, 410. 000
0290	460. 4110. 3	S Reheating HMA Pavement Longitudinal Joints	LF	35, 900. 000	35, 900. 000
0300	460. 5223	HMA Pavement 3 LT 58-28 S	TON	13, 705. 000	13, 705. 000
0310	460. 5224	HMA Pavement 4 LT 58-28 S	TON	16, 612. 000	16, 612. 000
0320	465. 0110	Asphaltic Surface Patching	TON	200.000	200.000
0330	465. 0120	Asphaltic Surface Driveways and Field Entrances	TON	50. 000	50. 000
0340	465. 0305	Asphaltic Surface Safety Islands	TON	5.000	5. 000
0350	465. 0315	Asphaltic Flumes	SY	40. 000	40. 000
0360	465. 0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	33, 663. 000	33, 663. 000
0370	522. 0124	Culvert Pipe Reinforced Concrete Class	s LF	74. 000	74. 000
0380	522. 0136	Culvert Pipe Reinforced Concrete Class	s LF	83.000	83. 000
0390	522. 0318	Culvert Pipe Reinforced Concrete Class IV 18-Inch	s LF	164. 000	164. 000
0400	522. 0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	s LF	178. 000	178. 000
0410	522. 0330	Culvert Pipe Reinforced Concrete Class	s LF	70.000	70. 000
0420	522. 1018	Apron Endwalls for Culvert Pipe	EACH	6. 000	6. 000
		IV 30-Inch			

DATE 130CT16

628. 2008

628. 2027

628. 7005

628. 7015

628. 7504

628. 7555

628. 7570

629. 0210

630. 0120

631.0300

633. 0100

633.0500

633. 5200

634.0616

634. 0618

0720

0730 0740

0750

0770

0780

0790

0800

0810

0820

0830

0840

0850

0860

Erosion Mat Urban Class I Type B

Erosion Mat Class II Type C

Inlet Protection Type A

Inlet Protection Type C

Temporary Ditch Checks

Seeding Mixture No. 20

Delineator Posts Steel

Delineator Reflectors

Posts Wood 4x6-Inch X 16-FT

Posts Wood 4x6-Inch X 18-FT

634.0812 Posts Tubular Steel 2x2-Inch X 12-FT

Markers Culvert End

Culvert Pipe Checks

Fertilizer Type B

Rock Bags

Sod Water

ESTIMATE OF QUANTITIES

3, 420. 000

2, 560. 000

2.000

2.000

70.000

76.000

50.000

4.370

103.600

130.000

42.000

42.000

52.000

129.000

17.000

3.000

SY

LF

EACH

**EACH** 

**EACH** 

**EACH** 

MGAL

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EACH

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ΙR

3, 420. 000

2,560.000

2.000

2.000

70.000

76. 000 50. 000

4.370

103.600

130.000

42.000

42.000

52.000

129.000

17.000

3.000

MBERE   ITEM   TITEM   DESCRIPTION   UNIT   TOTAL   OUNTITY	DATE 130 LINE	0CT16	EST	IMAT	E O F Q U A N	T I T I E S 1580-29-70
370		ITEM	ITEM DESCRIPTION	UNI T	TOTAL	
380   637, 2230   Signs Type II   Reflective F   SF   290, 750						
100   642, 5201   Field Office Type C   EACH   1.000				SF	290. 750	290. 750
Field Office Type C						
220   643.0100   Traffic Control (project) 01. 1580-29-70   EACH   1.000   1	0900	638. 3000	Removing Small Sign Supports	EACH	134. 000	134. 000
Add	0910					
Add   Add   Add   Traffic Control Barricades Type III   DAY   21.000   21.000   21.000   21.000   25.66   43.000   27.	0920					
Traffic Control Warning Light's Type A   DAY   465, 000   465, 000						
Traffic Control Signs	0940					
270						
27.000   27.000   27.000   28.000   27.000   29.000   2	0960					
1990   646.0106   Pavement Marking Epoxy 4-Inch   LF   128,750.000   1						
000   046.0126   Pavement Marking Epoxy 8-Inch   LF   2,480.000   2,480.000	0960					
1010   646.0406   Pavement Marking Same Day Epoxy 4-Inch   LF   42,895.000   42,895.000   42,895.000   466.0600   Renoving Pavement Marking Stop Line Epoxy 18-Inch   LF   790.000   790	1000					
100					· 	
175.000	1010					
Add	1020		Removing Pavement Markings			
Pavement Marking Aerial Enforcement   LF   60.000   60.000	1030					
Bars Epoxy 24-Inch  60 648. 0100	1040					
Temporary Pavement Marking Removable   LF   3,050.000   3,050.000   Tape 4-Inch   Tape 4-Inch   Temporary Pavement Marking Paint 4-Inch   LF   350.000   350.000   350.000   Mask-Out Tape 6-Inch   LF   350.000   Mask-Out Tape 6-Inch   Mask-Out Tape 6-Inc	1000	047. 0003		LI	50.000	00.000
100   100	1060	648. 0100	Locating No-Passing Zones		7. 660	7. 660
100   649.0402   Temporary Pavement Marking Paint 4-Inch   LF   39,870.000   39,870.000   350.	1070	649. 0400	Temporary Pavement Marking Removable	LF	3, 050. 000	3, 050. 000
100   649.0506   Temporary Pavement Marking Removable   LF   350.000   350.000   Mask-Out Tape 6-Inch   Cemporary Pavement Marking Stop Line   LF   24.000   24.000   24.000   24.000   24.1nch   Cemporary Pavement Marking Stop Line   LF   24.000	1000	6.40, 0.400		1.5	20 070 000	20 070 000
Mask-Out Tape 6-Inch   Temporary Pavement Marking Stop Line   LF   24.000   24.000   24.000   24.10ch	1080					
100   649.1300   Temporary Pavement Marking Stop Line   LF   24.000   24.000   24-10ch     110   650.5500   Construction Staking Curb Gutter and   LF   1,539.000   1,539.00	1090	U47. U3U0		ᄕ	33U. UUU	30U. UUU
Curb & Gutter Curb & Gutter Construction Staking Pipe Culverts EACH 9.000 9.000 Construction Staking Resurfacing LF 40,450.000 40,450.000 Reference Construction Staking Supplemental LS 1.000 1.000 Control (project) 01. 1580-29-70 Construction Staking Slope Stakes LF 870.000 870.000  Construction Staking Supplemental LS 870.000 870.000  Construction Staking Stakes LF 870.000 970.000  Construction Staking Supplemental LS 870.000 970.000  Construction Staking Stakes LF 870.000  Construction Staking Stakes LF 870.0	1100	649. 1300	Temporary Pavement Marking Stop Line	LF	24. 000	24. 000
Curb & Gutter Curb & Gutter Construction Staking Pipe Culverts EACH 9.000 9.000 Construction Staking Resurfacing LF 40,450.000 40,450.000 Reference Construction Staking Supplemental LS 1.000 1.000 Control (project) 01. 1580-29-70 Construction Staking Slope Stakes LF 870.000 870.000  Construction Staking Supplemental LS 870.000 870.000  Construction Staking Stakes LF 870.000 970.000  Construction Staking Supplemental LS 870.000 970.000  Construction Staking Stakes LF 870.000  Construction Staking Stakes LF 870.0	1110	650, 5500	Construction Staking Curb Gutter and	LF	1, 539, 000	1, 539, 000
120					.,	.,
Reference	1120					
140   650. 9910   Construction Staking Supplemental   LS   1.000   1.000     150   650. 9920   Construction Staking Slope Stakes   LF   870.000   870.000     160   652. 0225   Conduit Rigid Nonmetallic Schedule 40   LF   350.000   350.000     170   652. 0605   Conduit Special 2-Inch   LF   260.000   260.000     180   653. 0140   Pull Boxes Steel 24x42-Inch   EACH   6.000   6.000     190   653. 0905   Removing Pull Boxes   EACH   5.000   5.000     190   654. 0101   Concrete Bases Type 1   EACH   3.000   3.000     190   655. 0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   656. 0200   Electrical Service Meter Breaker   LS   1.000   1.000     100   Pedestal Bases   EACH   1.000   1.000     100   EACH   1.000     100   EACH   1.000     100   EACH   1.000     100   EACH   1	1130	650. 8000		LF	40, 450. 000	40, 450. 000
Control (project) 01. 1580-29-70  150 650.9920 Construction Staking Slope Stakes LF 870.000 870.000  160 652.0225 Conduit Rigid Nonmetallic Schedule 40 LF 350.000 350.000  2-Inch  170 652.0605 Conduit Special 2-Inch LF 260.000 260.000  180 653.0140 Pull Boxes Steel 24x42-Inch EACH 6.000 6.000  190 653.0905 Removing Pull Boxes EACH 5.000 5.000  200 654.0101 Concrete Bases Type 1 EACH 3.000 3.000  210 655.0305 Cable Type UF 2-12 AWG Grounded LF 785.000 785.000  220 656.0200 Electrical Service Meter Breaker LS 1.000 1.000  230 657.0100 Pedestal Bases EACH 1.000 1.000  240 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000  250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000	1116	(50.0010		1.0	4 000	4 000
150   650.9920   Construction   Staking   Slope   Stakes   LF   870.000   870.000     160   652.0225   Conduit   Rigid   Nonmetallic   Schedule   40   LF   350.000   350.000     170   652.0605   Conduit   Special   2-Inch   LF   260.000   260.000     180   653.0140   Pull   Boxes   Steel   24x42-Inch   EACH   6.000   6.000     190   653.0905   Removing   Pull   Boxes   EACH   5.000   5.000     190   654.0101   Concrete   Bases   Type   1   EACH   3.000   3.000     190   655.0305   Cable   Type   UF   2-12   AWG   Grounded   LF   785.000   785.000     190   655.0305   Cable   Type   UF   2-12   AWG   Grounded   LF   T85.000   785.000     190   656.0200   Electrical   Service   Meter   Breaker   LS   1.000   1.000     190   657.0100   Pedestal   Bases   EACH   1.000   1.000     190   657.0420   Traffic   Signal   Standards   Aluminum   13-FT   EACH   1.000   1.000     190   658.0103   Traffic   Signal   Face   1-12   Inch   Vertical   EACH   1.000   1.000     190   EACH   1.000   1.000   1.000     190   EAC	1140	650. 9910		LS	1. 000	1. 000
160   652.0225   Conduit Rigid Nonmetallic Schedule 40   LF   350.000   350.000     170   652.0605   Conduit Special 2-Inch   LF   260.000   260.000     180   653.0140   Pull Boxes Steel 24x42-Inch   EACH   6.000   6.000     190   653.0905   Removing Pull Boxes   EACH   5.000   5.000     190   654.0101   Concrete Bases Type 1   EACH   3.000   3.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded   LF   785.000   785.000     190   655.0305   Cable Type UF 2-12 AWG Grounded	1150	650 0020		l F	870 OOO	870 OOO
2-Inch  170 652.0605 Conduit Special 2-Inch  180 653.0140 Pull Boxes Steel 24x42-Inch  190 653.0905 Removing Pull Boxes  190 654.0101 Concrete Bases Type 1  190 655.0305 Cable Type UF 2-12 AWG Grounded  190 656.0200 Electrical Service Meter Breaker  190 657.0100 Pedestal Bases  190 657.0100 Pedestal Bases  190 657.0420 Traffic Signal Standards Aluminum 13-FT EACH  190 658.0210 Backplates Signal Face 1 Section 12-Inch EACH  190 650.000 260.000  260.000 6.000  260.000						
170       652.0605       Conduit Special 2-Inch       LF       260.000       260.000         180       653.0140       Pull Boxes Steel 24x42-Inch       EACH       6.000       6.000         190       653.0905       Removing Pull Boxes       EACH       5.000       5.000         200       654.0101       Concrete Bases Type 1       EACH       3.000       3.000         210       655.0305       Cable Type UF 2-12 AWG Grounded       LF       785.000       785.000         220       656.0200       Electrical Service Meter Breaker       LS       1.000       1.000         220       657.0100       Pedestal (location) 01. USH 8 & CTH A       EACH       1.000       1.000         240       657.0420       Traffic Signal Standards Aluminum 13-FT       EACH       1.000       1.000         250       658.0103       Traffic Signal Face 1-12 Inch Vertical       EACH       1.000       1.000         260       658.0210       Backplates Signal Face 1 Section 12-Inch       EACH       1.000       1.000	1160	652. 0225	•	LF	350. 000	350. 000
180       653.0140       Pull Boxes Steel 24x42-Inch       EACH       6.000       6.000         190       653.0905       Removing Pull Boxes       EACH       5.000       5.000         200       654.0101       Concrete Bases Type 1       EACH       3.000       3.000         210       655.0305       Cable Type UF 2-12 AWG Grounded       LF       785.000       785.000         220       656.0200       Electrical Service Meter Breaker       LS       1.000       1.000         220       657.0100       Pedestal (location) 01. USH 8 & CTH A       EACH       1.000       1.000         240       657.0420       Traffic Signal Standards Aluminum 13-FT       EACH       1.000       1.000         250       658.0103       Traffic Signal Face 1-12 Inch Vertical       EACH       1.000       1.000         260       658.0210       Backplates Signal Face 1 Section 12-Inch       EACH       1.000       1.000	1170	(50.0/05			2/2 222	2/2 222
190   653.0905   Removing Pull Boxes   EACH   5.000   5.000	1170		Conduit Special 2-Inch			
200 654.0101 Concrete Bases Type 1 EACH 3.000 3.000  210 655.0305 Cable Type UF 2-12 AWG Grounded LF 785.000 785.000 220 656.0200 Electrical Service Meter Breaker LS 1.000 1.000  Pedestal (location) 01. USH 8 & CTH A  230 657.0100 Pedestal Bases EACH 1.000 1.000  240 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000  250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000  260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1180 1190		Pemoving Pull Royes			
210 655.0305 Cable Type UF 2-12 AWG Grounded LF 785.000 785.000 220 656.0200 Electrical Service Meter Breaker LS 1.000 1.000 Pedestal (location) 01. USH 8 & CTH A 230 657.0100 Pedestal Bases EACH 1.000 1.000 240 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000 250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000 260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1200					
220 656.0200 Electrical Service Meter Breaker LS 1.000 1.000 Pedestal (location) 01. USH 8 & CTH A 230 657.0100 Pedestal Bases EACH 1.000 1.000 240 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000 250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000 260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1200	034. 0101	Concrete bases Type T	LACIT	3.000	3.000
Pedestal (Iocation) 01. USH 8 & CTH A 230	1210			LF	785. 000	
230 657.0100 Pedestal Bases EACH 1.000 1.000 240 657.0420 Traffic Signal Standards Aluminum 13-FT EACH 1.000 1.000 250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000 260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1220			LS	1.000	
240       657.0420       Traffic Signal Standards Aluminum 13-FT       EACH       1.000       1.000         250       658.0103       Traffic Signal Face 1-12 Inch Vertical       EACH       1.000       1.000         260       658.0210       Backplates Signal Face 1 Section 12-Inch EACH       1.000       1.000						
250 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 1.000 1.000  260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1230					
260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1240					
260 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 1.000 1.000	1250	o58. U1U3	mainic Signal Face 1-12 Inch vertical	EACH	1.000	1.000
	1260			EACH		
270 658.0605 Led Modules 12-Inch Yellow Ball EACH 1.000 1.000	1270		Led Modules 12-Inch Yellow Ball	EACH		
	1280	658. 5069		LS	1. 000	1. 000
STA 526+00 LT 290 661.0100 Temporary Traffic Signals for Bridges LS 1.000 1.000	1290	661 0100		1 9	1 000	1 000
(structure) 01. B-50-48	1270	301.0100		LJ	1.000	1.000
·	1300	690. 0150		LF	3, 885. 000	3, 885. 000

DATE 13 LINE	0CT16	EST	IMAT	E OF QUANT	T I T I E S 1580-29-70
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
1310	690. 0250	Sawing Concrete	LF	1, 135. 000	1, 135. 000
1320	715. 0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
1330	ASP. 1TOA	On-the-Job Training Apprentice at \$5. OO/HR	HRS	1, 200. 000	1, 200. 000
1340	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
1350	SPV. 0060	Special 01. Lane Shift	EACH	2. 000	2. 000
1360	SPV. 0060	Special 02. Remove, Salvage, and Reinstall Red Flashing Beacon Assembly	EACH	2. 000	2. 000
1370	SPV. 0060	Special 03. Reestablish Section Corner Monuments	EACH	5. 000	5. 000
1380	SPV. 0090	Special O1. Heavy Duty Silt Fence	LF	250. 000	250.000
1390	SPV. 0090	Special 02. Railing Steel Type "W" Modified	LF	91.000	91. 000
1400	SPV. 0105	Special 01. Remove and Salvage Flashing Beacons	LS	1. 000	1. 000
1410	SPV. 0180	Special O1. Protective Thermoplastic Coating at Snowmobile Crossings	SY	67. 000	67. 000

### **EARTHWORK SUMMARY**

					UNUSABLE			EXPANDED	MASS ORDINATE		
			205	5.0100	PAVEMENT	AVAILABLE	UNEXPANDED	FILL	+/-		208.0100
DIVISION	STATION	LOCATION	EXCAVATION	N COMMON (1)	MATERIAL	MATERIAL (3)	FILL	FACTOR (4)	(5)	WASTE	BORROW
		_	CUT (2)	EBS	-			1.25			
1	438+78	CULVERT TRANSITION	48	0	0	0	0	0	0	0	0
1		STH 13 SB ON RAMP C&G	19	0	0	11	119	149	-138	0	138
1		STH 13 SB OFF RAMP C&G	84	0	0	47	0	0	47	47	0
1		STH 13 RAMP MEDIAN X-OVERS	0	0	0	0	40	50	-50	0	50
1		STH 13 NB ON RAMP C&G	20	0	0	11	55	69	-57	0	57
1		STH 13 NB OFF RAMP C&G	83	0	0	46	0	0	46	46	0
1		GRANBERG ROAD C&G	132	0	0	73	0	0	73	73	0
1		CTH A C&G	271	0	0	151	0	0	151	151	0
1	610+68	CULVERT TRANSTION	142	0	0	0	0	0	0	0	0
1	658+80	CULVERT TRANSTION	370	0	0	0	0	0	0	0	0
1	770+25 - 776+50	B-50-48 BEAMGUARD	0	0	0	0	667	833	-833	0	833
1	772+15 - 774+48	B-50-48 APPROACH SLAB	79	0	0	79	0	0	79	79	0
		TOTAL:	1	248	0	417	881	1101	-683	396	1079

### NOTES:

- 1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS
- 2) UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
- 3) AVAILABLE MATERIAL = CUT UNUSABLE PAVEMENT MATERIAL (\* 5/9 AT CURB & GUTTER REPLACEMENTS)
- 4) EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- 5) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PROJECT NO: 1580-29-70 HWY: USH 8 COUNTY: PRICE MISCELLANEOUS QUANTITIES SHEET: **E** 

CLEARING & GRUBBING           201.0105         201.0205           CLEARING         GRUBBING           STATION TO STATION LOCATION         STATIONS           771+50         -         772+50         LT         1         1           774+75         -         776+75         LT         2         2           TOTAL:         3         3	CULVERT REPLACEMENT STA 438+75   240     STH 13 SB OFF RAMP CURB REMOVAL   15     STH 13 NB ON RAMP CURB REMOVAL   15     STH 13 NB ON RAMP CURB REMOVAL   15     CULVERT REPLACEMENT STA 610+68   340     CULVERT REPLACEMENT STA 658+80   340     B-50-48 APPROACH SLAB REPLACEMENT   165     TOTAL: 1145	REMOVING ASPHALTIC SURFACE  LOCATION SY  STH 13 INTERCHANGE RECONFIGURATION ISLAND REMOVALS GRANBERG RD CURB & GUTTER REMOVAL CTH A CURB & GUTTER REMOVAL B-50-48 APPROACH SLAB REPLACEMENT DRIVEWAYS TOTAL:  204.0110 SY  204.0110 SY  1590 1590 1590 1590 1590 1590 1590 159
REMOVING ASPHALTIC SURFACE BUTT JOINT   204.0115   LOCATION   SY	REMOVING ASPHALTIC SURFACE MILLING   204.0120	REMOVING CURB & GUTTER         204.015         LOCATION       LF         STH 13 SB OFF RAMP       355         STH 13 SB ON RAMP       100         STH 13 NB ON RAMP       105         STH 13 NB OFF RAMP       355         GRANBERG ROAD       160         CTH A       495
STATION TO STATION   LOCATION   LF	PREPARE FOUNDATION FOR BASE AGGREGATE  211.0500  LOCATION STA  STH 13 SB OFF RAMP CURB REMOVAL 2 STH 13 NB OFF RAMP CURB REMOVAL 2 TOTAL: 4  PREPARE FOUNDATION FOR ASPHALTIC PAVING  211.0100 LS NOTES  PROJECT 1580-29-70 1 PREPARE SURFACE AFTER MILLING TOTAL: 1	SHAPING SHOULDERS  305.0500  STATION TO STATION STA  412+00 - 442+00 60  442+00 - 470+50 114  470+50 - 816+50 692  TOTAL: 866

LOCATION

B-50-48

415.0410

SY 120

### PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

					211.0400
STATION	TO	STATION		REMARKS	STA
48+10	-	49+30	SB ON	RAMP WIDENING	2
10+75	-	11+90	NB ON	RAMP WIDENING	2
439+45	-	449+60	WB - LT	3' PAVED SHOULDER	11
442+75	-	444+70	WB - RT	3' PAVED SHOULDER	2
448+35	-	453+00	EB - RT	RIGHT TURN LANE WIDENING	5
454+20	-	458+70	WB - LT	10' PAVED SHOULDER	5
454+80	-	459+25	EB - RT	10' PAVED SHOULDER	5
454+85	-	458+40	WB - RT	LEFT TURN LANE WIDENING	4
455+00	-	458+60	EB - LT	LEFT TURN LANE WIDENING	4
460+50	-	465+15	WB - LT	RIGHT TURN LANE WIDENING	5
463+20	-	466+55	EB - RT	RIGHT TURN LANE WIDENING	4
468+20	-	470+50	WB - RT	LEFT TURN LANE WIDENING	3
468+00	-	470+45	EB - LT	3' PAVED SHOULDER	3
469+15	-	475+35	EB - RT	3' PAVED SHOULDER	7
508+18	-	508+43	LT	SNOWMOBILE CROSSING	1
508+18	-	508+43	RT	SNOWMOBILE CROSSING	1
737+76	-	739+38	LT	BEAMGUARD	2
737+14	-	739+38	RT	BEAMGUARD	3
740+41	-	742+64	LT	BEAMGUARD	3
740+41	-	742+02	RT	BEAMGUARD	2
770+84	-	772+15	LT	BEAMGUARD	2
769+74	-	772+11	RT	BEAMGUARD	3
774+59	-	776+89	LT	BEAMGUARD	3
774+39	-	775+81	RT	BEAMGUARD	2
				TOTAL:	80

	FLUMES		
	465.0315	606.0100	645.0130
	ASPHALTIC	LIGHT	GEOTEXTILE
	FLUME	RIP-RAP	FABRIC TYPE R
LOCATION	SY	CY	SY
STH 13 SB ON RAMP	10	3	9
STH 13 NB ON RAMP	9	-	-
CTH A - NE QUAD	11	3	9
CTH A - SE QUAD	10	3	9
TOTAL:	40	9	27

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

	BASE AGGREGATE DENSE							
	305.0110 305.0120							
				3/4-INCH	1 1/4-INCH			
STATION T	O	STATION	LOCATION	TON	TON			
412+00	-	441+50	SHOULDERS	400	-			
441+50	-	470+50	SHOULDERS	1060	-			
470+50	-	816+50	SHOULDERS	4420	-			
			CONCRETE TRUCK APRONS	-	250			
			CURB & GUTTER REMOVALS & REPLACEMENTS	-	585			
			CULVERT REPLACEMENTS (MAINLINE)	150	735			
			CULVERT REPLACEMENTS (STH 13 RAMPS)	120	300			
			STH 13 INTERCHANGE RECONFIGURATION	-	1250			
			STH 13 RAMP SHOULDERS	50	-			
			B-50-48 APPROACH SLAB REPLACEMENT	-	90			
			TOTAL:	6200	3210			

465.0305
TON
5
5

**CONCRETE PAVEMENT APPROACH SLAB** 

STATION TO STATION

772+15 - 772+45

			HMA PAVEME	NT		
460.5223 460.5224						
				3 LT 58-28 S	4 LT 58-28 S	
				HMA	HMA	455.0605
				PAVEMENT	PAVEMENT	TACK COAT
STATION	TO	STATION	LOCATION	TON	TON	GALLON
412+00	-	438+26	MAINLINE	1240	990	530
438+26	-	476+03	STH 13 INTERCHANGE	650	2580	1460
476+03	-	515+80	MAINLINE	1870	1500	800
515+80	-	525+80	MAINLINE	0	550	300
542+00	-	739+50	MAINLINE	9340	7500	4030
739+50	-	772+15	MAINLINE	0	1230	660
774+48	-	816+50	MAINLINE	0	1580	840
			CULVERT REPLACEMENTS	400	0	140
			C&G REPLACEMENT	140	0	60
			STH 13 RAMPS	0	270	150
			GRANBERG ROAD INT	0	90	50
			CTH A INT	0	130	70
			OTHER SIDE ROAD INT	0	170	90
739+00	-	741+00	WEDGING @ B-50-61	65	0	25
			TOTAL:	13705	16590	9205

CONCRETE	TRUCK APRONS	<u>s</u>
	405.0100	416.0512
	COLORING	CONCRETE
	CONCRETE	TRUCK APRON
	WISDOT RED	12-INCH
LOCATION	CY	SY
STH 13 SB ON RAMP	13	38
WEST MEDIAN X-OVER	67	203
EAST MEDIAN X-OVER	154	464
STH 13 NB ON RAMP	13	38
TOTAL:	247	743

RUMBLE STRIPS					
			465.0475		
			ASPHALTIC CENTER-LINE		
			RUMBLE STRIPS		
			2-LANE RURAL		
STATION	TO	STATION	LF		
412+00	-	440+00	2400		
474+50	-	515+00	4050		
542+00	-	816+50	27213		
	7	TOTALS:	33663		

SHEET:

	MISCELLANE	EOUS PAVEMI	ENT ITEMS		
	460.4110.S	450.4000	465.0110	465.0120	
	REHEATING	HMA COLD	ASPHALTIC	ASPHALTIC SURFACE	
	PAVEMENT	WEATHER	SURFACE	DRIVEWAYS &	
	LONGITUDINAL JOINT	PAVING	PATCHING	FIELD ENTRANCES	
LOCATION	LF	TON	TON	TON	REMARKS
STA 412+00 - 816+50	35900	-	-	-	UPPER LAYER ONLY
UNDISTRIBUTED		3030	200	50	_
TOTAL:	35900	3030	200	50	•

PROJECT NO: 1580-29-70 HWY: USH 8

COUNTY: PRICE

PLOT BY : dotkxk

MISCELLANEOUS QUANTITIES

PLOT NAME : mq

PLOT SCALE: 1:1

### **CULVERT ITEMS**

		203.0100	204.9060.S	522.0124		522.0318	522.0324	522.0330	522.1018		522.1030		524.0124	524.0624		633.5200	650.6000
		REMOVING	REMOVING	RC			RCCP				NDWALLS		CULVERT PIPE			MARKERS	STAKING
		SMALL PIPE	APRON	CLAS			CLASS IV			FOR I		00 11 101 1	SALVAGED	APRON ENDWALLS	JOINT	CULVERT	PIPE
071701		CULVERTS	ENDWALLS	24-INCH	36-INCH	18-INCH	24-INCH	30-INCH	18-INCH	24-INCH	30-INCH	36-INCH	24-INCH	24-INCH	TIES	END	CULVERTS
STATION		EACH	EACH	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	LF	EACH	EACH*	EACH	EACH
423+70	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	2	4**	2	
438+75	USH 8	11	-	-	-	-	-	70	-	-	2	-	-	-	20***	2	1
448+60	USH 8 WB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
455+17	USH 8 WB	1	-	-	-	54	-	-	2	-	-	-	-	-	18***	2	1
52+38	STH 13 SB OFF	1	-	-	-	-	56	-	-	2	-	-	-	-	16***	2	1
48+32	STH 13 SB ON	1	-	-	-	-	44	-	-	2	-	-	-	-	14***	2	1
10+60	STH 13 NB ON	1	-	-	-	56	-	-	2	-	-	-	-	-	16***	2	1
9+49	STH 13 NB OFF	1	-	-	-	-	78	-	-	2	-	-	-	-	22***	2	1
457+95	USH 8 WB	1	-	-	-	54	-	-	2	-	-	-	-	-	18***	2	1
468+57	USH 8 WB	-	-	-	-	-	=	-	-	-	-	-	-	-	-	2	-
478+60	USH 8	-	-	-	-	-	=	-	-	-	=	-	-	1	2**	2	-
483+65	USH 8	-	-	-	-	-	=	-	-	-	-	-	-	1	2**	2	-
503+60	USH 8	-	-	-	-	-	=	-	-	-	=	-	8	1	4**	2	-
553+23	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
569+22	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
587+09	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
595+03	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
610+68	USH 8	1	-	-	83	-	-	-	-	-	-	2	-	-	8	2	1
615+55	USH 8	-	1	-	-	-	-	-	-	-	1	-	-	-	2**	2	-
632+08	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
658+80	USH 8	1	-	74	-	-	-	-	-	2	-	-	-	-	8	2	1
668+20	USH 8	-	1	-	-	-	-	-	-	-	-	1	-	-	2**	2	-
674+75	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
693+95	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
707+53	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
734+45	USH 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	TOTAL:	9	2	74	83	164	178	70	6	8	3	3	8	5	206	52	9

<sup>\*</sup> NOT A BID ITEM, FOR INFORMATIONAL PURPOSES ONLY. TOTALS ARE APPROXIMATE.

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PROJECT NO: 1580-29-70 HWY: USH 8 COUNTY: PRICE	MISCELLANEOUS QUANTITIES	SHEET:	E
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<sup>\*\*</sup> MAY NEED TO DRILL HOLES FOR TIES IN EXISITNG PIPE SECTIONS AND ENDWALLS, DRILLING IS INCIDENTAL TO CULVERT & ENDWALL ITEMS

<sup>\*\*\*</sup> TIES REQUIRED AT EVERY JOINT

**CONCRETE CURB & GUTTER** 

601.0415 601.0557 601.0580 601.0586 6-INCH SLOPED 6-INCH SLOPED 4-INCH SLOPED 4-INCH SLOPED 650.5500 30-INCH TYPE J 36-INCH TYPE D 36-INCH TYPE R 30-INCH TYPE TBTT STAKING

	30 111011 111 L 3	30 II VOIT TTT L D	JO INOTHITE IX		1 OTAKINO
LOCATION	LF	LF		LF	LF
STH 13 SB OFF RAMP	-	65	-	-	65
STH 13 SB ON RAMP	-	28	90	-	118
WEST MEDIAN X-OVER	-	-	180	-	180
EAST MEDIAN X-OVER	-	-	360	-	360
STH 13 NB OFF RAMP	-	65	-	-	65
STH 13 NB ON RAMP	-	28	90	-	118
GRANBERG RD	-	186	-	-	186
CTH A NW QUAD	-	72	-	-	72
CTH A NE QUAD	-	61	-	-	61
CTH A SW QUAD	-	139	-	-	139
CTH A SE QUAD	-	96	-	-	96
CTH A ISLAND	79	-	-	-	79
B-50-61 APPROACH SLAB	-	-	-	47	-
TOTAL:	79	740	720	47	1539

### TEMPORARY PRECAST CONCRETE BARRIER

	603.8000	603.8125
	DELIVERED	INSTALLED
LOCATION	LF	LF
B-50-48	100	200
TOTAL:	100	200

### **HEAVY RIP-RAP**

IIEA I KII -K	<u> </u>	
		645.01200
	606.0300	GEOTEXTILE
	RIP-RAP	FABRIC
	HEAVY	TYPE HR
LOCATION	CY	SY
STA 668+20 RT CULVERT REPAIR	20	26
TOTAL:	20	26

611.0651 628.7005 628.7015 COVER PROTECTION PROTECTION TYPE S TYPE A TYPE C EACH EACH EACH

LOCATION B-50-61 APPROACH SLAB 2 2 2 TOTAL: 2

**INLETS** 

**BEAM GUARD** 

					614.0220	614.0230		614.2500	614.2610
					STEEL THRIE	STEEL	614.2300	MGS	MGS GUARDRAIL
					BEAM BULLNOSE	THRIE	MGS	THRIE BEAM	TERMINAL
					TERMINAL	BEAM	<b>GUARDRAIL 3</b>	TRANSITION	EAT
STATION	TO	STATION		LOCATION	EACH	LF	LF	LF	EACH
456+00	-	457+36	MD	MEDIAN	2	100	-	-	-
738+19		739+74	RT	B-50-61	-	-	62.5	39.4	1
738+81		739+74	LT	B-50-61	-	-	-	39.4	1
740+04		740+97	RT	B-50-61	-	-	-	39.4	1
740+04		741+59	LT	B-50-61	-	-	62.5	39.4	1
770+49		772+20	RT	B-50-48	-	-	75	39.4	1
771+59		772+54	LT	B-50-48	-	-	-	39.4	1
774+11		775+06	RT	B-50-48	-	-	-	39.4	1
774+44		776+14	LT	B-50-48		-	75	39.4	1
				TOTALS:	2	100	275	315.2	8

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PROJECT NO: 1580-29-70

HWY: USH 8

COUNTY: PRICE

MISCELLANEOUS QUANTITIES

PLOT BY : dotkxk

SHEET:

FILE NAME : \\RHIRTOPFLPPI01\\N3Public\\pds\\project\_id\\1590-12-32\_USH\_8\_Intersections\\Design related information\\Estimate\\MQ.pptx

PLOT DATE: 6/29/2016

PLOT NAME : mq

PLOT SCALE: 1:1

RI DE	LINIATORS 204.0180 633.0100 EMOVING DELINIATOR 633.0500 LINIATORS POSTS DELINIATOR 0 MARKERS STEEL REFLECTOR EACH EACH EACH 32 7 7 7 - 8 8 8 - 14 14 - 13 13 32 42 42		B	LOCATIC SEEDING @ E ASE AGGREGA	3-50-48	624.0100 WATER MGAL - 150 150				LOCA PROJ <b>TOT</b>	MOE MOE E TION ECT	ONS EROSI 628.1905 BILIZATIONS ROSION CONTROL EA 6 6	ON CONTROL 628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EA 2 2	
				LANDSCAPING	& FROSION	CONTROL								
		625.0100	628.1504 SILT		628.2008 EMAT URBAN CLASS I	628.2027	TEMPORAR'	628.7555 Y CULVERT PIPE		629.0210 FERTILIZEF				
		TOPSOIL		MAINTENANCE	TYPE B	TYPE C		CHECKS	BAGS	TYPE B	#20			
	LOCATION	SY	LF	LF	SY	SY	LF	EACH	EACH	CWT	LB	•		
	CULVERT 42 CULVERT 43	50 100	- 110	- 110	50 100	-	-	5 5	-	0.04 0.07	0.9 1.8			
	STH 13 RAMP TERMINI	970	110 250	110 250	100 970	-	20	5	-	0.62	1.6 17.5			
	STH 13 RAMP CULVERTS	300	300	300	300	-	-	20	-	0.02	5.4			
	STH 13 MEDIAN	425	-	-	425	-	_	6	_	0.13	7.7			
	GRANBERG ROAD INTERSECTION	50	190	190	50	-	-	5	_	0.04	0.9			
	CULVERT 46	25	50	50	25	-	-	-	-	0.02	0.5			
	CULVERT 47	25	-	-	25	-	-	-	-	0.02	0.5			
	CULVERT 48	35	50	50	35	-	-	5	-	0.03	0.7			
	CTH A INTERSECTION	90	-	-	90	-	-	-	-	0.06	1.7			
	CULVERT 53	425	260	260	425	-	-	5	-	0.27	7.7			
	CULVERT 54 CULVERT 56	50 300	50 125	50 125	50 300	-	-	- 5	-	0.04 0.19	0.9 5.4			
	CULVERT 57	75	-	-	75	-	-	-	-	0.19	1.4			
	B-50-48	2310	230	230	-	2310	_	-	-	1.46	41.6			
	UNDISTRIBUTED	500	500	500	500	250	50	20	50	1.00	9.0			
	TOTALS:	5730	2115	2115	3420	2560	70	76	50	4.37	103.6			
					PAVEMENT M	ARKING								
			6.0106 Y 4-INCH	646.0126	616.04 SAME [	DAY S	647.0566 STOP LINE	647.0 DIAGONAL 12-IN	_ EPOXY	AE	7.0803 FRIAL			
		WHITE	YELLOV	EPOXY 8-ING  WHITE	CH EPOXY 4- YELLC		EPOXY 18-INCH		YELLOW		MENT BARS ′ 24-INCH	ס		
	LOCATION	LF	LF	LF	LF	· • •	LF	LF	LF		LF			
	MAIN CL/EL	73900	40590	-	4169	5	-	-	-	<u>'</u>	-			
	STH 13 INTERCHANGE	7000	6800	1655	1200	1	100	155	735		-			
	CTH A INTERSECTION	140	320	825	-		75	115	-		-			
	STA 691+95 - 718+35	-	-	-	-		-	-	-		60			
ALL ITEMS AND QUANTITIES ON	PROJECT	91040	47710		-			- 270	725	_	-			
THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE	SUBTOTAL:	81040	47710	2480	4289	<u> </u>	175	270 <b>100</b>	735		60	_		
	TOTALS:	12	28750		4289	<del>- 1</del>					60			
PROJECT NO: 1580-29-70	HWY: USH 8		COUNT	/: PRICE	ATE : 10/5/2016	MISC	PLOT BY : dotkxk	QUANTITIE	S PLOT NAME:			LE : 1:1	SHEET:	E

										ENT SIGNING				
						638.3000 REMOVING SMALL SIGN	637.2210 SIGNS TYPE II	637.2230 SIGNS TYPE II	634.0616 POSTS WOOD 4X6-INCH		634.0812 POSTS TUBULAR STEEL	MOUNT ON SAME		
			SIGN	SIZE	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12'	POST AS		
STATION	LOC	SIGN#	CODE	$W \times H$	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
413+25	RT	1	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON MILLER ROAD
416+25	RT	-	-		-	1	-	-	-	-	-			POST ONLY - REMOVE
419+00	LT	2	D1-1	66 x 15	-	-	6.875	-	2	-	-		DESTINATION	MILLER RD (LA)
429+83	LT	3	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
433+00	RT	4	W6-1	36 x 36	-	-	-	9.000	1	-	-		DIVIDED HIGHWAY AHEAD	NEW LOCATION
434+32	RT	5	W6-1		1	1	-	-	-	-	-			REMOVE
436+43	RT	6	J1-1	24 x 39	1	1	6.500	-	1	-	-		JUNCTION ASSEMBLY	
			M2-1	21 x 15									JCT	
			M1-6	24 x 24									STH 13	
437+50	LT	7	W6-3	36 x 36	-	-	-	9.000	1	-	-		TWO-WAY TRAFFIC	NEW LOCATION
									BEGIN DIV	IDED SECTION				
439+00 WB	LT	8	W6-3		1	1	-	-	-	-	-		TWO-WAY TRAFFIC	REMOVE
441+50 EB	LT	9	R4-7	24 x 30	-	-	5.000	-	1	-	-		KEEP RIGHT	NEW
441+50 EB	LT	10	W5-54	18 x 18	-	-	-	2.250	-	-	-	9	OBJECT IN ROAD MARKER	MOUNT UNDER KEEP RIGHT
441+50 WB	LT	11	R5-1	36 x 36	-	-	9.000	-	1	-	-		DO NOT ENTER	NEW
441+50 WB	LT	12	R2-1	24 x 30	-	-	5.000	-	-	-	-	11	SPEED LIMIT	55 - NEW LOCATION
441+84 EB	RT	13		72 x 57	1	2	28.500	-	-	2	-		DIRECTIONAL J-ASSEMBLY	
			M3-1	24 12									NORTH	
			M1-6	24 24									STH 13	
			M5-1L	21 21									LA	
			M3-2	24 12									EAST	
			M1-4	24 24									USH 8	
			M6-1	21 21									UA	
				24 12									SOUTH	
				24 24									STH 13	
			M5-1R	21 21									RA	
443+30 EB	LT	14	R5-1		1	1	-	-	-	-	-		DO NOT ENTER	REMOVE
443+82 WB	LT	15	R5-1A		1	1	-	-	-	-	-		WRONG WAY	REMOVE
443+82 WB		16	R2-1		1	-	-	-	-	-	-		SPEED LIMIT	REMOVE
445+50 WB		17		36 x 24	-	-	6.000	-	1	-	-		WRONG WAY	NEW
		18		36 x 36	-	-	-	9.000	-	-	-	17	UNDIVIDED HIGHWAY AHEAD	NEW
446+45 WB	LT	19	D2-2	84 x 24	1	2	14.000	-	2	-	-		DISTANCE	CATAWBA 11 / LADYSMITH 41
447+00 EB	RT	20	D1-3	84 x 42	1	2	24.500	-	-	2	-		DESTINATION	RHINELANDER (UA) / ASHLAND (LA) MEDFORD (RA)
449+24 WB	LT	21	W6-2		1	1	-	-	-	-	-		UNDIVIDED HIGHWAY AHEAD	REMOVE
450+29 EB	RT	23	R5-1A	36 x 24	-	1	6.000	-	-	-	-		WRONG WAY	NEW
			SHEET	TOTAL:	12	16	116.555	35.250	12	4	0			
L ITEMS AN IIS SHEET A NLESS NOTE	RE CA	ATEGO	RY 010											
		29-70		<u> </u>	HWY: U	0110		COUNTY: PR	IOF	L	SCELLANEOUS C	NIANTITIE C		SHEET:

									PERMANENT SIGNING (CONTINUED)						
						638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
						REMOVING		SIGNS	SIGNS	POSTS WOOD			MOUNT		
- [						SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH	TUBULAR STEE			
1				SIGN	SIZE	TYPE II			REFLECTIVE F		X 18-FT	STEEL 2"x2"X12			
┪	STATION	LOC	SIGN #		W x H	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
ı	452+27 W		24	J4-1	24 x 36	1	1	6.000	-	1	-	-	SIGN#	REASSURANCE J-ASSEMBLY	COMMENTS
ار	432+21 VV	D LI	24		24 x 30 24 x 12	ı	1	0.000	-	ı	-	-		WEST	
3														USH 8	
ı	450.00 5	D DT	05		24 x 24	4	4	0.500			4				
4	452+80 E	B RT	25	J2-1	24 x 57	1	1	9.500	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
- 1					24 x 12									SOUTH	
					24 x 24									STH 13	
	450.00.5			M6-1	21 x 21			0.050						RA	
	452+80 E		26	R5-1	30 x 30	-	-	6.250	-	-	-	-	25	DO NOT ENTER	NEW
	453+00 E		27	R3-2	24 x 24	-	-	4.000	-	1	-	-		NO LEFT TURN	5-1-0/-
	453+60 E		28	R5-1	04 55	1	1	-	-	-	-	-		DO NOT ENTER	REMOVE
	453+75 W		29	R4-7	24 x 30	-	-	5.000	-	1	-	-		KEEP RIGHT	
	453+86 W		30	R1-1	36 x 36	1	1	7.460	-	-	-	-		STOP	
	453+89 W	B LT	31	J2-1	24 x 57	-	-	9.500	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
				M3-4	24 x 12									WEST	
					24 x 24									USH 8	
				M6-1	21 x 21									RA	
	454+12 W		32	R1-1		1	1	-	-	-	-	-		STOP	REMOVE
	454+12 W		33	W12-1D		1	1	<u>-</u>	-	-	-	-		DOUBLE DOWN ARROW	REMOVE
	454+25 W		34		36 x 24	-	-	6.000	-	-	-	-		WRONG WAY	PLACE ON RAMP 200' FROM STOP
	454+25 W		35		36 x 24	-	-	6.000	-	-	-	-		WRONG WAY	PLACE ON RAMP 200' FROM STOP
	454+38 E	B RT	36	J2-1	24 x 57	1	1	9.500	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
				M3-2	24 x 12									EAST	
				M1-4	24 x 24									USH 8	
				M6-1	21 x 21									LA	
	454+38 E		37	R6-2L	24 x 30	-	-	5.000	-	-	-	-	36	ONE WAY (LEFT)	MOUNT ON SIDE OF STOP POST
	454+43 E	B RT	38	I5-1	24 x 24	1	1	-	-	-	-	-		AIRPORT TRAILBLAZER	
	454+43 E	B RT	39	M6-1	21 x 21	-	-	-	-	-	-	-	38	RIGHT ARROW	WHITE TEXT & GREEN BACKGROUND
	454+43 E	B RT	40	D9-52	46 x 36	-	-	11.500	-	1	-	-		AIRPORT	PRENTICE
	454+50 W	B LT	41	R1-1	36 x 36	1	1	7.460	-	1	-	-		STOP	
	454+50 W	B LT	42	R6-3	30 x 24	1	-	5.000	-	-	-	-	41	DIVIDED HIGHWAY	MOUNT UNDER STOP
	454+50 W	B LT	43	R2-6L	24 x 30	-	-	5.000	-	-	-	-	41	ONE WAY (LEFT)	MOUNT ON SIDE OF STOP POST
	454+52 W	B LT	44	R5-1	30 x 30	-	-	6.250	-	1	-	-		DO NOT ENTER	
	454+55 W	B RT	45	R4-7	24 x 30	-	-	5.000	-	-	-	1		KEEP RIGHT	BOX OUT W/ SLEEVED POST
	454+68 E	B LT	46	R5-1		1	1	-	-	-	-	-		DO NOT ENTER	REMOVE
1	454+91 W	B LT	47	R5-1	30 x 30	-	-	6.250	-	-	-	-		DO NOT ENTER	
				SHEET	TOTAL:	11	10	120.670	0.000	6	3	1			
- [	ALL ITEMS . THIS SHEE UNLESS NO	ΓARE C	ATEGO	RY 010											
ſ	PROJECT N	O: 1580-	29-70			HWY: U	JSH 8		COUNTY: PR	ICE	M	ISCELLANEOUS	QUANTITIES		SHEET: E
_	U.E.NAME . WDUUDT	ODEL DDIOANN	مرامل مرامانا	roinat id\1E00	12 22 1101 0 16	toroostions\Dosign	related information\Estima	ato/MO anty	-	PLOT DATE : 6/2	0/2046	PLOT BY : dotkxk		PLOT NAME : ma PLOT SCALE : 1	

								PERMANENT SIG	ENING (CONTINI	IED)			
				638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
					REMOVING	SIGNS	SIGNS	POSTS WOOD		POSTS	MOUNT		
				SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH		TUBULAR STEEL			
		SIGN	SIZE	TYPE II			H REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12			
STATION	LOC SIGN :			EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
454+91 WB		J2-1	24 x 57	1	1	9.500	_	_	1	_	47	DIRECTIONAL J-ASSEMBLY	
			24 x 12									SOUTH	
			24 x 24									STH 13	
		M6-1	21 x 21									LA	
454+91 WB	LT 49	R3-1	24 x 24	-	-	4.000	-	-	-	-		NO RIGHT TURN	
456+00 EB	RT 50	D1-1	66 x 15	1	2	6.875	-	2	-	-		DESTINATION	ASHLAND (LA)
456+36 EB	LT 51	W5-52L	. 12 x 36	1	1	-	-	-	-	-		BRIDGE HASHMARK	REMOVE
456+61 EB	RT 52	R5-1A	36 x 24	-	-	6.000	-	1	-	-		WRONG WAY	
457+55 EB	LT 53	W5-52L	. 12 x 36	1	1	-	-	-	-	-		BRIDGE HASHMARK	REMOVE
457+55 WB	LT 54	R5-1A	36 x 24	-	-	6.000	-	-	-	-	55	WRONG WAY	
457+55 WB	LT 55	D1-1	60 x 15	1	1	6.250	-	2	-	-		DESTINATION	MEDFORD (LA)
458+25 WB	LT 56	J2-2	48 x 57	1	1	19.000	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
		M3-3	24 x 12									SOUTH	
		M1-6	24 x 24									STH 13	
		M5-1L	21 x 21									ALA	
		M3-4	24 x 12									WEST	
		M1-4	24 x 24									USH 8	
		M6-1	21 x 21									UA	
458+61 EB	RT 57	J2-1	24 x 57	1	1	9.500	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
		M3-1	24 x 12									NORTH	
		M1-6										STH 13	
		M6-1	21 x 21									LA	
458+61 EB			24 x 24		-	4.000	-	-	-	-	57	NO RIGHT TURN	MOUNT UNDER J-ASSY
458+61 EB	RT 59	R5-1	30 x 30	-	-	6.250	-	-	-	-	57	DO NOT ENTER	551101/5
458+65 EB	LT 60	R5-1A		1	1	-	-	-	-	-		WRONG WAY	REMOVE
458+65 EB	LT 61	R5-1	04 + 20	1	-	- 5 000	-	-	-	-		DO NOT ENTER	REMOVE
458+75 EB 458+95 EB	LT 62 RT 63	R4-7 R5-1	24 x 30 30 x 30		<u>-</u> 1	5.000		<u>-</u> 1		1 		KEEP RIGHT DO NOT ENTER	BOX OUT W/ SLEEVED POST
450+95 EB 459+05 EB	RT 64	R1-1	36 x 36		-	7.460	_	1	_	_		STOP	
459+05 EB	RT 65	R6-3	30 x 36	-	-	5.000	- -	-	-	- -	64	DIVIDED HIGHWAY	MOUNT UNDER STOP
459+05 EB 459+05 EB	RT 66		24 x 30	<u>-</u>	- -	5.000	<u>-</u>	_	-	<u>-</u>	64	ONE WAY (LEFT)	MOUNT ON SIDE OF STOP POST
459+03 EB 459+10 EB	RT 67		36 x 24	- -	-	6.000	<u>-</u>	1	-	-	U <del>T</del>	WRONG WAY	PLACE ON RAMP 200' FROM STOF
459+10 EB			36 x 24	_	_	6.000	<u>-</u>	1	-	-		WRONG WAY	PLACE ON RAMP 200' FROM STOP
.50	55		T TOTAL:	10	10	111.835	0.000	9	3	1			: 2.02 02 200 10 0101
ALL ITEMS AN		IES ON	7										

FILE NAME : \\RHIRTOPFLPPI01\\N3Public\pds\\project\_id\1590-12-32\_USH\_8\_Intersections\Design related information\Estimate\MQ.pptx

HWY: USH 8

UNLESS NOTED OTHERWISE

PROJECT NO: 1580-29-70

PLOT DATE : 6/29/2016

COUNTY: PRICE

PLOT BY : dotkxk

MISCELLANEOUS QUANTITIES

PLOT NAME : mq

PLOT SCALE : 1:1

SHEET:

					638.2602	638.3000	637.2210	637.2230	PERMANENT SIG	634.0618	634.0812			
					REMOVING SIGNS	REMOVING SMALL SIGN	SIGNS TYPE II	SIGNS TYPE II	POSTS WOOD 4X6-INCH		POSTS TUBULAR STEEL	MOUNT ON SAME		
			SIGN	SIZE	TYPE II		REFLECTIVE H I	REFLECTIVE F		X 18-FT	STEEL 2"x2"X12'			
STATION	LOC	SIGN#		WxH	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
459+40 WB	LT	69	J2-1	24 x 57	1	1	9.500	-	-	1	-		DIRECTIONAL J-ASSEMBLY	
				24 x 12									WEST	
				24 x 24									USH 8	
				21 x 21									LA	
459+40 WB	LT	70		24 x 30	1	-	5.000	_	-	_	-	69	ONE WAY (LEFT)	
	RT	71	R1-1		1	1	-	-	-	-	-		STOP	REMOVE
	RT	72	W12-1D		1	1	-	-	-	_	-		DOUBLE DOWN ARROW	REMOVE
	RT	73	R5-1		1	1	-	-	-	_	-		DO NOT ENTER	REMOVE
459+70 EB	LT	74		24 x 30	-	-	5.000	-	-	-	1		KEEP RIGHT	BOX OUT W/ SLEEVED POST
459+79 EB	LT	75	<b>I</b> 5-1	24 x 24	1	1	-	-	-	-	-		AIRPORT TRAILBLAZER	REMOVE
459+79 EB	LT	76		21 x 21	1	-	-	-	-	-	-	75	RIGHT ARROW	REMOVE
	RT	77		36 x 36	1	1	7.460	-	1	_	-		STOP	
	RT	78	J2-1	24 x 57	-	_	9.500	_	_	1	-		DIRECTIONAL J-ASSEMBLY	
				24 x 12									EAST	
				24 x 24									USH 8	
				21 x 21									RA	
459+99 EB	RT	79		46 x 36	_		11.500	_	1	-	-		AIRPORT	PRENTICE
	RT	80		24 x 24	_	_	4.000	_	1	-	-		NO LEFT TURN	
	LT	81	R5-1A		1	1	-	_	-	_	-		WRONG WAY	REMOVE
		82	R5-1	30 x 30	· -	-	6.250	_	-	1	-		DO NOT ENTER	
460+99 WB		83	J2-1	24 x 57	1	-	9.500		-	<u> </u>	-	82	DIRECTIONAL J-ASSEMBLY	
100100 112		00		24 x 12	,		0.000					02	NORTH	
				24 x 24									STH 13	
				21 x 21									RA	
461+00 EB	RT	84	D2-3	21 7 21	1	2							DIRECTIONAL	REMOVE
461+00 EB		85		24 x 36	1	-	6.000		1	_	-		REASSURANCE J-ASSEMBLY	INDIVIDUO VE
401+00 LB	IXI	00		24 x 12	1	_	0.000	_	ı	_	-		EAST	
				24 x 24									USH 8	
462+30 EB	RT	86		90 x 36		_	22.500			2			DIRECTIONAL	PRENTICE 1 / TRIPOLI 15 / RHINELA NDER 46
	RT	87		84 x 15	1	2	8.750	_	2	_	_		DESTINATION	GRANBERG RD (RA)
464+00 WB		88		36 x 24	-	-	6.000	_	∠ 1	-	-		WRONG WAY	CHANDENG ND (NA)
464+00 WB		89		30 x 36	- 1	- 1	7.500	-	-	-	-	88	ADOPT A HIGHWAY	BOY SCOUTS TROOP 583 PRENTICE, W
	RT	90	100-00	30 X 30	- I	I	7.500	-	-	-	-	00	SIS SIGN	DO NOT DISTURB
	RT	90	<b>Ρ</b> 5-1Λ	36 x 24	-	-	6.000	- -	- 1	_	-		WRONG WAY	DO NOT DISTORD
465+60 EB		91	W6-2	JU X 24	- 1	- 1	-	- -	-	-	-		UNDIVIDED HIGHWAY AHEAD	REMOVE
403+00 LB	IXI	92	SHEET	TOTAL:	15	13	124.460	0.000	8	5	1		ONDIVIDED HIGHWAT AHEAD	KLWOVL
ALL ITEMS AN														
JNLESS NOTE							_							
PROJECT NO:	1580	-29-70			HWY: U	SH 8		COUNTY: PR	ICE	MIS	SCELLANEOUS C	UANTITIES		SHEET:

FILE NAME : \\RHIRTOPFLPPI01\\N3Public\pds\project\_id\1590-12-32\_USH\_8\_Intersections\Design related information\Estimate\MQ.pptx

PLOT DATE : 6/29/2016

PLOT BY : dotkxk

PLOT NAME : mq

PLOT SCALE : 1:1

			CIONI		SIGNS	638.3000 REMOVING SMALL SIGN	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II	634.0616 POSTS WOOD 4X6-INCH	4X6-INCH	TUBULAR STEEL			
STATION	100	SIGN#	SIGN CODE	SIZE W x H	TYPE II EACH	EACH	SF	SF	X 16-FT EACH	X 18-FT EACH	STEEL 2"x2"X12' EACH	SIGN #	DESCRIPTION	COMMENTS
465+60 E				VV X II	EACH 1		- -					SIGN#	WRONG WAY	REMOVE
		93	R5-1A		I	-		-	-	-	-			LADYSMITH/MEDFORD (UA) / ASHLA
466+25 W	B LT	94	D1-3	60 x 45	1	2	18.750	-	2	-	-		DESTINATION	(RA)
466+30 E	3 RT	95	W6-2	36 x 36	_	-	-	9.000	1	_	_		UNDIVIDED HIGHWAY AHEAD	NEW
466+30 E		96		30 x 30	_	-	6.250	-		_	_	95	DO NOT ENTER	NEW
466+70 E		97	R5-1		1	1	-	-	-	_	_		DO NOT ENTER	REMOVE
467+20 E		98		24 x 30		-	5.000	-	1	_	-		KEEP RIGHT	SKEW TO GRANBERG RD
467+98 E		99		30 x 30	1	1	5.180	1.000	- -	_	_		STOP	ON GRANBERG ROAD
467+98 E		100		30 x 24	<u>-</u>	· -	5.000	-	_	_	_	99	DIVIDED HIGHWAY	MOUNT UNDER STOP
468+11 W		101		24 x 30	1	1	5.000	-	1	-	_		ONE WAY (LEFT)	FACE GRANBERG ROAD
468+25 E		102	R5-1	2 · x · 00	1	1	-	_	-	-	_		DO NOT ENTER	REMOVE
468+60 E		103		36 x 36	<u> </u>	<u> </u>		9.000	1	-	_		UNDIVIDED HIGHWAY AHEAD	1,2,11,5,12
468+60 E		104		36 x 24	_	_	6.000	-	-	_	_	103	WRONG WAY	
469+69 E		105	R2-1	00 X 21	1	1	-	_	_	_	_	100	SPEED LIMIT	REMOVE
469+69 E		106	R5-1A		1	· -	_	_	_	_	_		WRONG WAY	REMOVE
469+69 W		107	R5-1A		1	1	_	_	_	_	_		WRONG WAY	REMOVE
470+10 W		108	R5-1		1	1							DO NOT ENTER	REMOVE
470+15 E		109		24 x 30	<u>'</u>	<u>'</u>	5.000	_	1	_	_		SPEED LIMIT	55
470+15 E		110		36 x 36	_	_	9.000	_	<u>.</u>	_	_	109	DO NOT ENTER	35
470+13 Li		111		24 x 30	1	1	5.000	-	1	_	_	103	KEEP RIGHT	
470+30 W					' -	- -	-	2.250	-	_	_	111	OBJECT IN ROAD MARKER	MOUNT BELOW KEEP RIGHT
471+15 W		113		72 x 57	1	2	28.500	-	<u>-</u>	2	<u>-</u>	111	DIRECTIONAL J-ASSEMBLY	WOON BELOW REEL RIGHT
4/ IT IS VV	D LI	113		24 x 12	ı	2	20.500	-	-	2	<u>-</u>		SOUTH	
				24 x 12									STH 13	
				24 x 24 21 x 21										
				24 x 12									LA WEST	
				24 x 12 24 x 24									USH 8	
				24 x 24 21 x 21									UA UA	
				24 x 12									NORTH STL 43	
				24 x 24									STH 13	
470 45 **	D : =			21 x 21			0.750						RA CRANDERO DR (LA)	
472+15 W				84 x 15	1	1	8.750	-	2	-	-		GRANBERG RD (LA)	554075
475+37 E	s RI	115	W6-3		1	1	-	-	-	-	-		TWO-WAY TRAFFIC	REMOVE
477 : 00	DT	440	14/0.0	20 22				0.000	END DIVII	DED SECTION			TAKO MANA TRA SELO	NEWLOOFTON
477+00	RT			36 x 36 TOTAL:	- 14	- 14	- 407 400	9.000	1	-	-		TWO-WAY TRAFFIC	NEW LOCATION
ALL ITEMS		IANTITIE	S ON		14	14	107.430	30.250	11	2	0			
HIS SHEE' NLESS NO														

FILE NAME : \\RHIRTOPFLPPI01\\N3Public\pds\project\_id\1590-12-32\_USH\_8\_Intersections\Design related information\Estimate\MQ.pptx

PLOT DATE : 6/29/2016

PLOT BY : dotkxk

PLOT NAME : mq

PLOT SCALE : 1:1

									PERMANENT SIG	NING (CONTIN	IUED)			
					638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
						REMOVING	SIGNS	SIGNS	POSTS WOOD F	POSTS WOOD		MOUNT		
					SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH	TUBULAR STEEL			
			SIGN	SIZE	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12'	POST AS		
STATION	LOC	SIGN#	CODE	WxH	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
477+48	LT	117	J1-1	24 x 39	1	1	6.500	-	1	-	-		JUNCTION J-ASSEMBLY	
			M2-1	21 x 15									JCT	
			M1-6	24 x 24									STH 13	
478+98	LT	118	W6-1		1	1	-	-	-	-	-		DIVIDED HIGHWAY AHEAD	REMOVE
479+98	LT	119	W6-1	36 x 36	-	-	-	9.000	1	-	-		DIVIDED HIGHWAY AHEAD	NEW LOCATION
483+55	LT				-	-	-	-	-	-	-		SIS SIGN	DO NOT DISTURB
484+08	RT	121		48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
487+52	LT	122		48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
499+00	RT	123	W3-5	36 x 36	1	1	-	-	-	-	-		SPEED REDUCTION AHEAD	REMOVE
504+45	LT	124	R5-53A	18 x 24	1	1	-	-	-	-	-		BUCKLE UP	REMOVE
506+92	RT	125	R2-1	24 x 30	1	1	-	-	-	-	-		SPEED LIMIT	REMOVE
507+15	LT	126	R2-1	24 x 30	1	1	-	-	-	-	-		SPEED LIMIT	REMOVE
508+00	RT	127	W3-5	36 x 36	-	-	9.000	-	1	-	-		SPEED REDUCTION AHEAD	40
509+42	RT	128	I2-3	60 x 24	1	1	10.000	-	2	-	-		CITY & POPULATION	PRENTICE 660
509+42	RT	129	W14-3	48 x 36	1	-	-	6.000	-	-	-	128	NO PASSING	
511+28	LT	130	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
511+94	RT	131	J1-1	24 x 39	1	1	6.500	-	1	-	-		JUNCTION ASSEMBLY	
			M2-1	24 x 12									JCT	
			M1-5A	24 x 24									CTH A	
515+00	LT	132	R2-1	24 x 30	-	-	5.000	-	1	-	-		SPEED LIMIT	55
515+00	RT	133	R2-1	24 x 30	1	1	5.000	-	1	-	-		SPEED LIMIT	40
515+25	LT	134	R2-1	24 x 30	1	1	-	-	-	-	-		SPEED LIMIT	40
517+21	RT	135	D1-56R	90 x 15	1	2	9.375	-	2	-	-		BUSINESS DISTRICT (RA)	
518+27	RT	136	I5-1	24 x 24	-	-	-	-	-	-	-		AIRPORT TRAILBLAZER	REMOVE
518+27	RT	137	M7-1	12 x 9	-	-	-	-	-	-	-		RIGHT ARROW	REMOVE
518+27	RT	138	D9-52	46 x 36	-	-	11.500	-	1	-	-		AIRPORT	PRENTICE
520+38	RT	139	R2-1	24 x 30	1	1	-	-	-	-	-		SPEED LIMIT	REMOVE
521+44	LT	140	J4-1	24 x 36	1	1	6.000	-	1	-	-		REASSURANCE J ASSEMBLY	
			M3-4	24 x 12									WEST	
			M1-4	24 x 24									USH 8	
522+00	RT	141	J13-1	24 x 45	1	-	7.500	-	1	-	-		DIRECTIONAL J-ASSEMBLY	MOUNT ON WOOD POST
			M1-5A	24 x 24									CTH A	
			M6-4	21 x 21									ВА	
522+50	LT	142	J13-1	24 x 45	1	1	7.500	-	1	-	-		DIRECTIONAL J-ASSEMBLY	
			M1-4	24 x 24									USH 8	
			M6-4	21 x 21									ВА	
			SHEET	TOTAL:	18	17	77.375	33.000	16	0	0			
ALL ITEMS A				7										
THIS SHEET UNLESS NO														
PROJECT N	O: 1580	0-29-70			HWY: U	ISH 8		COUNTY: PR	ICE	М	ISCELLANEOUS C	QUANTITIES		SHEET:

									PERMANENT SIG	NING (CONTIN	UED)			
					638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
					REMOVING	REMOVING	SIGNS	SIGNS	POSTS WOOD	POSTS WOOD	POSTS	MOUNT		
					SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH	TUBULAR STEEL	ON SAME		
			SIGN	SIZE	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12'	POST AS		
STATION	LOC	SIGN#	CODE	WxH	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
522+55	LT	143	R1-1	30 x 30	-	-	5.180	-	-	-	-		STOP	ON FLASHING BEACON POST
522+55	LT	144	W4-4P	24 x 12	-	-	2.000	-	-	-	-	143	CROSS TRAFFIC DOES NOT STOP	MOUNTED BELOW STOP
523+00	RT	145	R1-1	30 x 30	1	_	5.180	-	-	_	_		STOP	ON FLASHING BEACON POST
523+00	RT	146	W4-4P	24 x 12	1	_	2.000	-	-	_	_	145	CROSS TRAFFIC DOES NOT STOP	MOUNTED BELOW STOP
523+00	RT	147	W12-1D	24 x 24	1	1	-	4.000	1	-	-			
523+05	RT	148	J13-1	24 x 45	1	1	7.500	-	1	-	-		DIRECTIONAL J-ASSEMBLY	
			M1-4	24 x 24									USH 8	
			M6-4	21 x 21									ВА	
523+25	LT	149	J13-1	24 x 45	1	-	7.500	-	1	-	-		DIRECTIONAL J-ASSEMBLY	MOUNT ON WOOD POST
	LT		M1-5A	24 x 24									CTH A	
	LT			21 x 21									ВА	
523+30	RT	150	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON CTH A
523+30	RT	151		24 x 12			2.000	-	-	_	-	150	CROSS TRAFFIC DOES NOT STOP	MOUNTED BELOW STOP
523+30	RT	152		30 x 30			6.250	-	-	_	-	150	DO NOT ENTER	MOUNTED ON BACK OF STOP
523+82	RT	153		24 x 36	1	1	6.000	_	1	-	_		REASSURANCE J-ASSEMBLY	
				24 x 12	•	-			-				EAST	
				24 x 24									USH 8	
526+00	LT	154		36 x 36	_	-	-	9.000	_	-	_		CROSSROAD WARNING	MOUNT ON BEACON
526+55	LT	155		24 x 24	_	_	-	-	-	_	_		AIRPORT TRAILBLAZER	REMOVE
526+55	LT	156	M7-1	12 x 9	_	_	-	-	-	-	_		LEFT ARROW	REMOVE
527+00	RT	157		24 x 30	_	_	5.000	-	1	-	_		SPEED LIMIT	40
527+25	LT	158		24 x 30	1	1	-	-	-	-	_		SPEED LIMIT	REMOVE
527+40	LT	159		46 x 36	-	_	11.500	_	1	-	_		AIRPORT	PRENTICE
528+35	LT	160		90 x 15	1	1	9.375	_	2	_	_		BUSINESS DISTRICT (LA)	_
531+48	RT	161		24 x 30	1	1	5.000	_	_ 1	_	_		SPEED LIMIT	40
531+95	LT	162		24 x 30	1	1	5.000	_	1	_	_		SPEED LIMIT	40
533+85	LT	163		24 x 39	1	1	6.500	_	1	_	_		JUNCTION ASSEMBLY	
				21 x 15	•	•			·				JCT	
				24 x 24									CTH A	
537+75	LT	164		60 x 24	_	_	10.000	-	2	_	_		SOUTH FORK JUMP RIVER	NEW
537+75	LT	165		60 x 24	_	-	10.000	_	-	_	<u>-</u>	164	SOUTH FORK JUMP RIVER	NEW
540+00	LT	166		24 x 30	1	1	5.000	_	1	_	_		SPEED LIMIT	40
540+05	RT	167		24 x 30	1	1	5.000	_	1	_	_		SPEED LIMIT	55
540+05	RT	168	I3-1	2+ X 00	1	· -	-	_	· -	_	_		SOUTH FORK JUMP RIVER	REMOVE
543+15	LT	169		60 x 24	1	1	10.000	_	1	_	_		CITY & POPULATION	PRENTICE 660
7-101 10		100	SHEET		16	12	131.165	13.000	17	0	0		SIT AT OF SERVICE	T KENTIOE 000
L ITEMS /														
NLESS NO			SE					I		1			_	Γ
ROJECT N	D: 1580-	29-70			HWY: U	SH 8		COUNTY: PR	PLOT DATE : 6/29		SCELLANEOUS (	QUANTITIE:	PLOT NAME : mg PLOT SCALE : 1:1	SHEET:

3

										PERMANENT SIG	GNING (CONTIN	UED)			
						638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
						REMOVING	REMOVING	SIGNS	SIGNS	POSTS WOOD	POSTS WOOD	POSTS	MOUNT		
						SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH	TUBULAR STEEL	ON SAME		
				SIGN	SIZE	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12'	POST AS		
STATI	ON LO	oc s	SIGN#	CODE	$W \times H$	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
543+	22 F	RT	170	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
547+	95 F	RT	171	R5-53A	18 x 24	1	1	-	-	-	-	-		BUCKLE UP	REMOVE
548+	00 L	_T	172	W3-5	36 x 36	1	1	-	9.000	1	-	-		SPEED ZONE AHEAD	40
567+	50 L	_T	173	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
570+	00 F	RT	174	D1-61	72 x 24	-	-	12.000	-	2	-	-		CEMETERY RD (LA)	NEW
571+	10 F	RT	175	155-56	30 x 36	1	1	7.500	-	1	-	-		ADOPT A HIGHWAY	TRINITY LUTHERAN PRENTICE
576+	25 L	_T	176	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON CEMETERY RD
576+	35 F	RT	177	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON CEMETERY RD
581+	60					-	1	-	-	-	-	-			POST ONLY - REMOVE
582+	75 L	Т	178	D1-61	72 x 24	1	2	12.000	-	2	-	-		CEMETERY RD (LA)	
584+	00 L	Т	179	W2-1	30 x 30	1	1	-	-	-	-	-		CROSSROAD	REMOVE
589+	30 F	RT	180	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
593+	25 L	_T	181	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
598+	00 F	RT	182	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (RIGHT)	NEW
603+	25 F	RT	183	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON SCHIE RD
609+	75 L	T	184	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (LEFT)	NEW
628+	20 F	RT	185	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
628+	60 L	Т	186	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
655+	60 F	RT	187	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
668+	80 L	T	188	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
675+	70 F	RT	189	D1-61	54 x 24	1	2	9.000	-	2	-	-		LOUND RD (BA)	
682+	75 L	T	190	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON LOUND RD
683+	06 F	RT	191	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON LOUND RD
687+	40 L	_Т	192	155-56	30 x 36	1	1	7.500	-	1	-	-		ADOPT A HIGHWAY	TRINITY LUTHERAN PRENTICE
690+	40 L	T	193	D1-61	54 x 24	1	2	9.000	-	2	-	-		LOUND RD (BA)	
698+	31 F	RT	194	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
701+	90 L	_T	195	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
701+		_T	196	W2-1		1	-	-	-	-	-	-		CROSSROAD	REMOVE
728+		RT	197		48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
729+		RT	198	D1-1	84 x 15	1	2	8.750	-	2	-	-		CHICAGO AVE (LA)	
735+		T	199		30 x 30		1	-	-	1	-	-		STOP	ON CHICAGO AVE
739+		Т			12 x 36		_	_	_	_	_	_		BRIDGE HASHMARK	DO NOT DISTURB
739+		RT			12 x 36		_	_	_	_	_	_		BRIDGE HASHMARK	DO NOT DISTURB
740+		Т			12 x 36		_	_	_	_	_	_		BRIDGE HASHMARK	DO NOT DISTURB
740+		RT			12 x 36		_	_	_	_	_	_		BRIDGE HASHMARK	DO NOT DISTURB
					TOTAL:	27	31	91.650	87.500	32	0	0			

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

PROJECT NO: 1580-29-70 HWY: USH 8 COUNTY: PRICE MISCELLANEOUS QUANTITIES SHEET: E

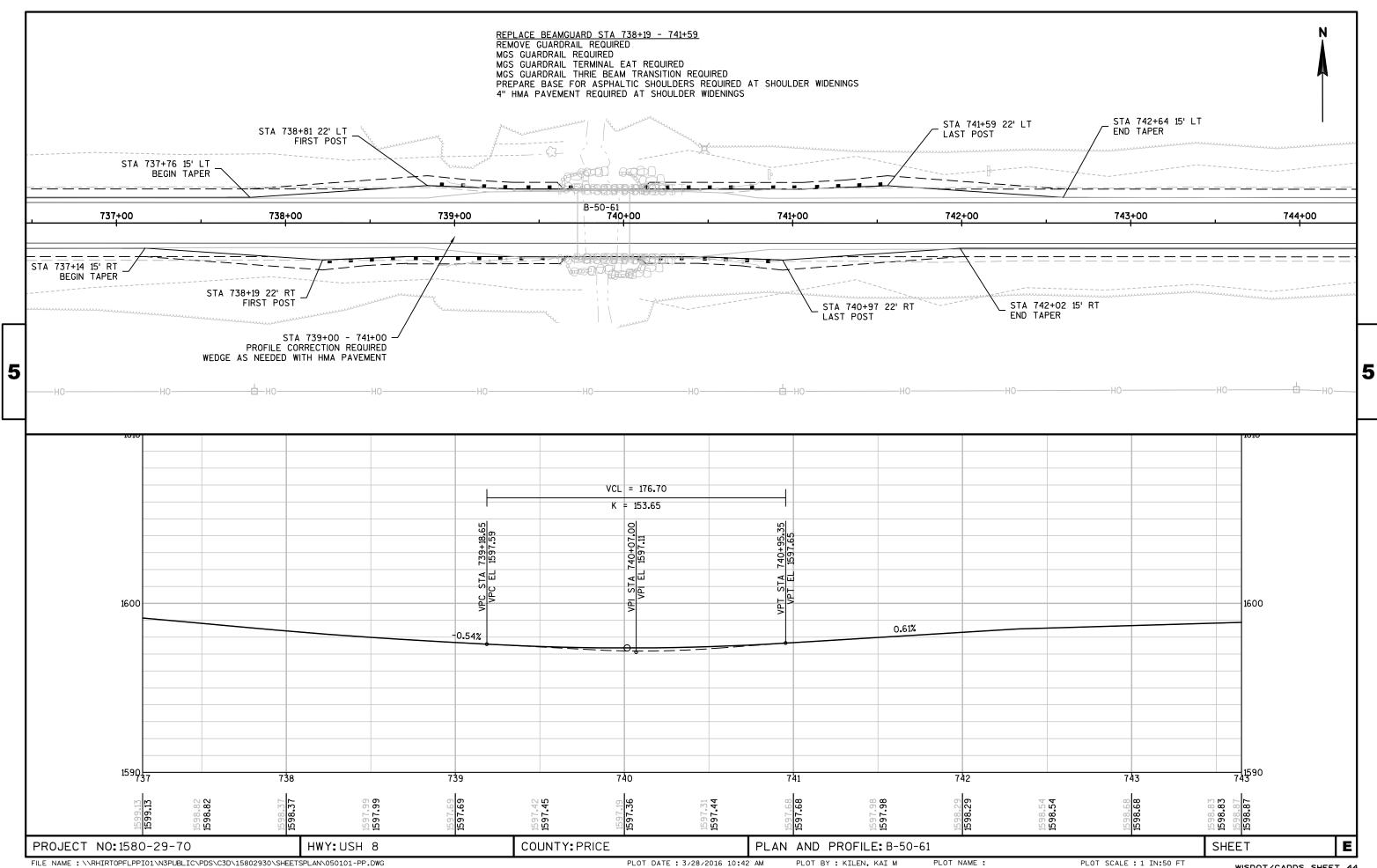
					638.2602	638.3000	637.2210	637.2230	634.0616	634.0618	634.0812			
					REMOVING	REMOVING	SIGNS	SIGNS	POSTS WOOD	POSTS WOOD	POSTS	MOUNT		
					SIGNS	SMALL SIGN	TYPE II	TYPE II	4X6-INCH	4X6-INCH	TUBULAR STEEL	ON SAME		
			SIGN	SIZE	TYPE II	SUPPORTS	REFLECTIVE H	REFLECTIVE F	X 16-FT	X 18-FT	STEEL 2"x2"X12'	POST AS		
STATION	LOC	SIGN#	CODE	$W \times H$	EACH	EACH	SF	SF	EACH	EACH	EACH	SIGN#	DESCRIPTION	COMMENTS
740+85	LT	204	W14-3	48 x 36	1	1	-	6.000	1	-	-		NO PASSING	
742+70	LT	205	D1-1	84 x 15	1	2	8.750	-	2	-	-		CHICAGO AVE (RA)	
750+25	RT	206	W1-2L	30 x 30	-	-	-	6.250	1	-	-		CURVE WARNING	
751+75	RT	207	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (LEFT)	NEW
754+25	LT	208	W1-6	48 x 24	1	1	-	8.000	1	-	-		NIGHT ARROW (RIGHT)	
755+75	LT	209	R1-1	30 x 30	1	1	5.180	-	1	-	-		STOP	ON STIBS RD
761+10	LT	210	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (RIGHT)	NEW
765+75	RT	211	W8-64	36 x 36	1	1	-	9.000	1	-	-		BRIDGE MAY BE ICY	
772+10	RT	212	W5-52R	12 x 36	-	-	-	-	-	-	-		BRIDGE HASHMARK	DO NOT DISTURB
772+35	LT	213	W5-52L	12 x 36	-	-	-	-	-	-	-		BRIDGE HASHMARK	DO NOT DISTURB
774+75	RT	214	W5-52L	12 x 36	-	-	-	-	-	-	-		BRIDGE HASHMARK	DO NOT DISTURB
774+85	LT	215	W5-52R	12 x 36	-	-	-	-	-	-	-		BRIDGE HASHMARK	DO NOT DISTURB
776+25	RT	216	W1-2R	30 x 30	-	-	-	6.250	1	-	-		CURVE WARNING	
779+50	RT	217	W1-6	48 x 24	1	1	-	8.000	1	-	-		NIGHT ARROW (LEFT)	
783+00	RT	218	W8-64	36 x 36	1	1	-	9.000	1	-	-		BRIDGE MAY BE ICY	
786+60	LT	219	W1-6	48 x 24	1	1	-	8.000	1	-	-		NIGHT ARROW (RIGHT)	
790+00	LT	220	W1-2R	30 x 30	-	-	-	6.250	1	-	-		CURVE WARNING	
804+05	RT	221	D1-1		1	1	-	-	-	-	-		WAYMAN RD	REMOVE
806+10	RT	222	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (LEFT)	
812+90	RT	223	D1-1	72 x 15	-	-	7.500	-	2	-	-		LUSTILA RD (RA)	NEW
816+10	LT	224	W2-2	30 x 30	-	-	-	6.250	1	-	-		CROSSROAD (RIGHT)	NEW
817+60	LT	225	D1-1		1	1	-	-	-	-	-		WYMAN RD	REMOVE
			SHEET	TOTAL:	10	11	21.430	91.750	18	0	0			
				TOTAL:	133	134	902.570	290.750	129	17	3			

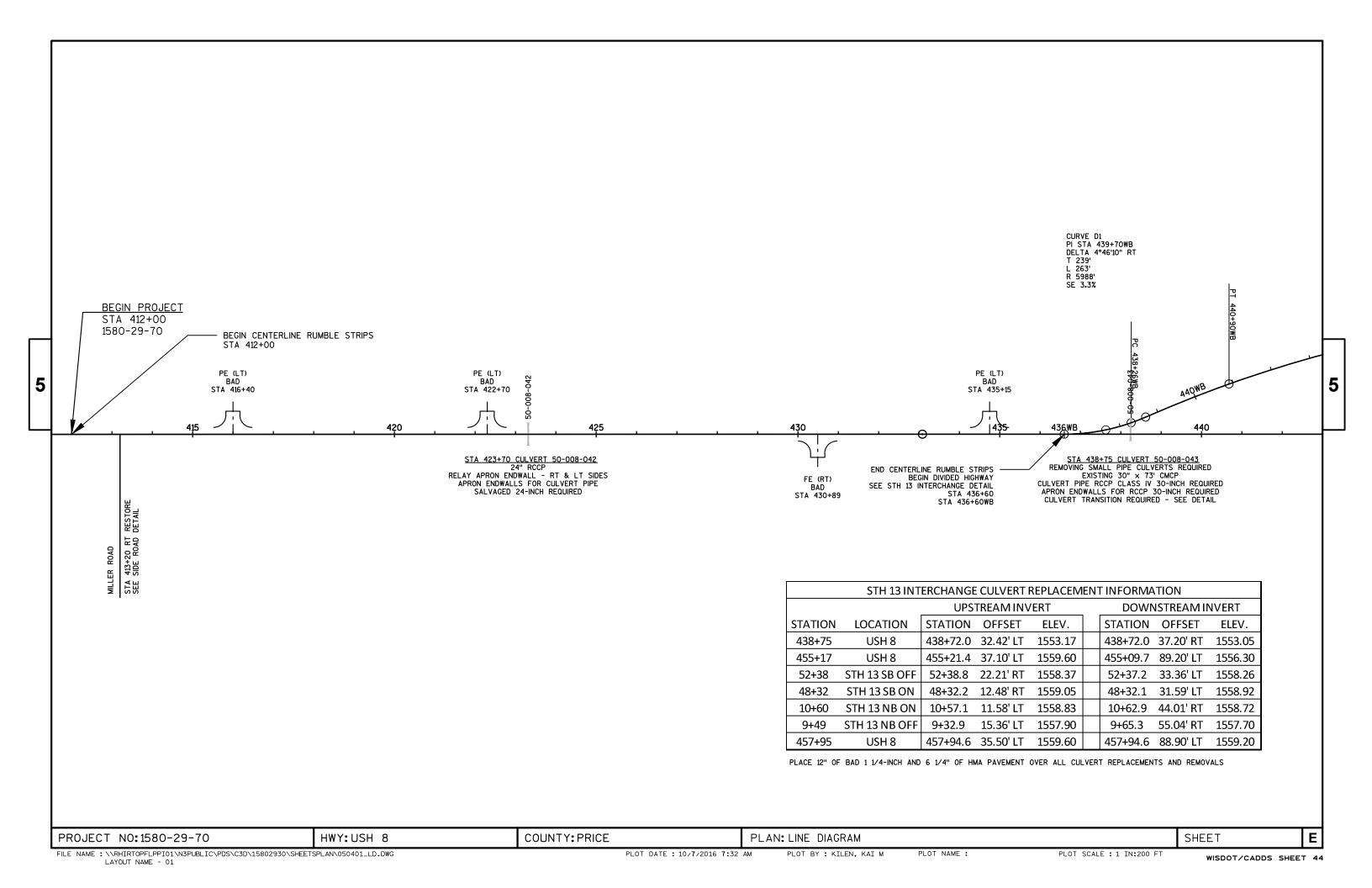
ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 010 UNLESS NOTED OTHERWISE

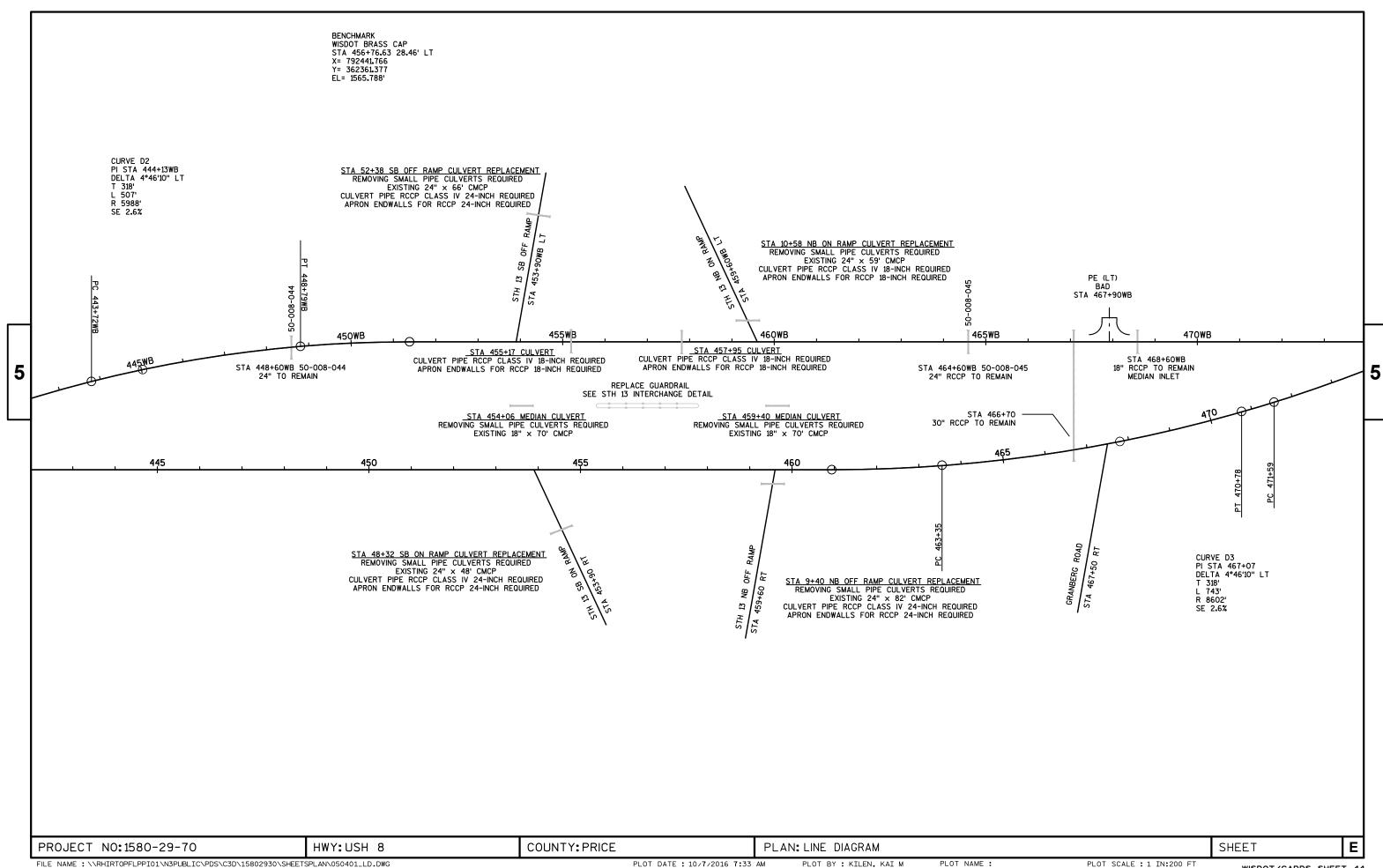
PROJECT NO: 1580-29-70 HWY: USH 8 COUNTY: PRICE MISCELLANEOUS QUANTITIES SHEET: **E** 

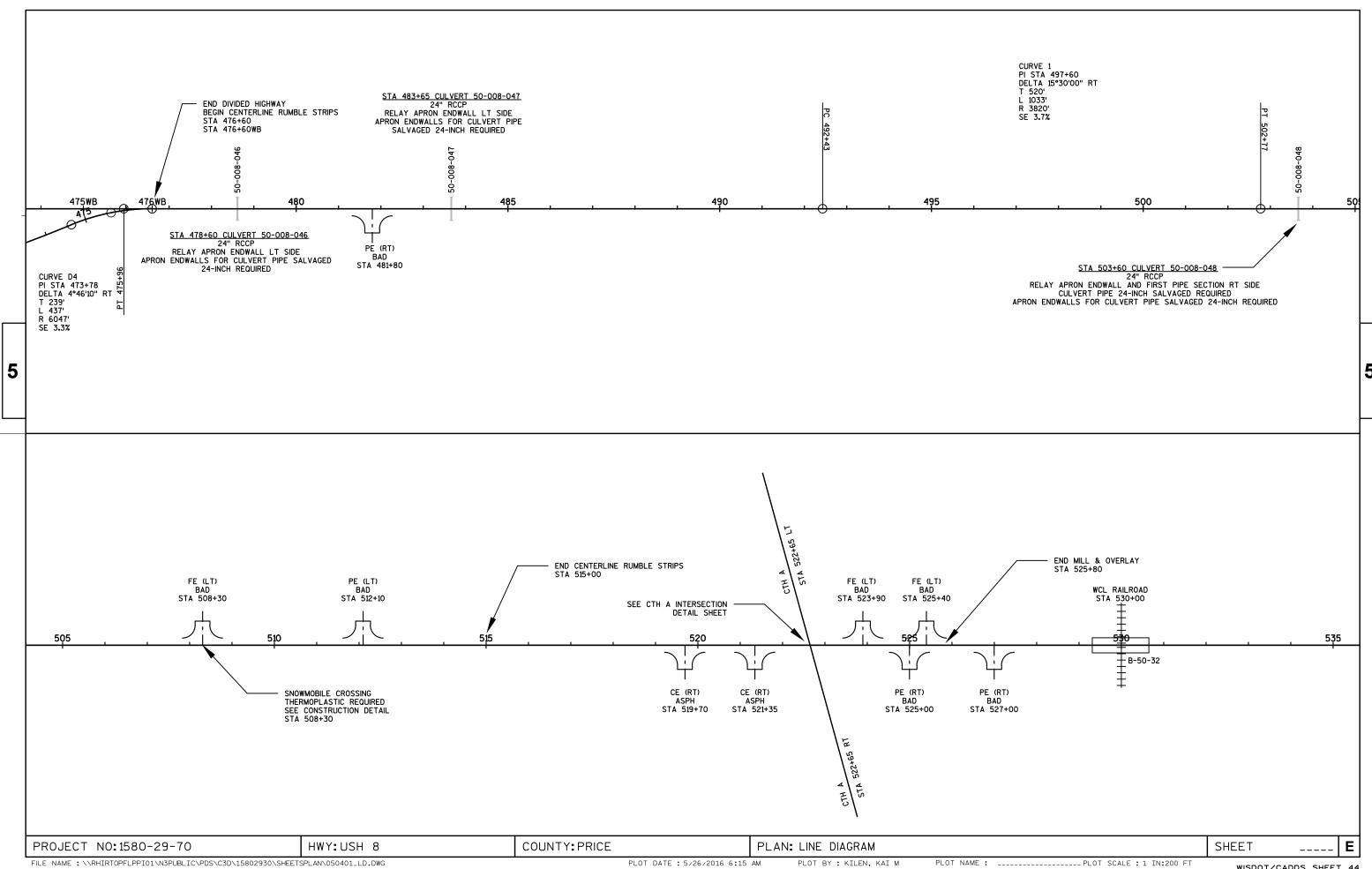
		TRA	AFFIC CONTROL										
LOCATION	643.0100 TRAFFIC CONTROL 1580-29-70 EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS	646.0600 REMOVING PAVEMENT MARKINGS LF	649.0402 TEMPORARY PAINT 4-INCH LF		LOCATION		649.0400 4-INCH WHITE LF	649.0506 6-INCH MASKOUT LF	<u>APE</u> 649.1400 24-INCH STOP BAR LF
PROJECT	1	-	-	-	-	-	39870	STH 13	3 INTERCHANGE	E STAGE 1	750	-	-
ADVANCE WARNING	-	-	-	-	2116	-	-		B-50-48 <b>TOTAL</b> :	_	2300 <b>3050</b>	350 <b>350</b>	24 <b>24</b>
STH 13 INTERCHANGE STAGE 1 STH 13 INTERCHANGE STAGE 2	-	2475 2520	-	255 -	120 -	-	-		TOTAL.		3030	330	24
STH 13 INTERCHANGE STAGE 3	-	250	-	-	-	-	-						
CTH A INTERSECTION	-	630	-	-	-	-	-		TEMP	ORARY TRAF	FIC SIGNAL	FOR BRIDGES	
B-50-48	-	945	21	210	504	790	-			<u> </u>		661.0100	
CULVERT REPLACEMENTS	-	750	-	-	250	-	-					LS	_
TOTAL:	1	7570	21	465	2990	790	39870			B-50-48		1	<del>-</del>
											TOTAL:	1	
			FL	ASHING BEA	CON CABLE &	CONDUIT							
CONCRETE BASES	}				52.0225	655.03					PULL BOX	KES	
	554.0101				DUIT RIGID 65 IMETALLIC CO							653.0140	
	ONCRETE					PECIAL 2-12 AV					653.0905		3
	BASES TYPE I					-INCH GROUND					REMOVING		
LOCATION EACH	EACH		FROM	TO		LF LF				LOCATION		S 24x42-INCH EACH	
B1 1	1			PB1	5	- 20				PB1	1	1	_
B2 1	1			PB2	-	80 95				PB2	-	1	
В3 -	1			PB2 PB3	25	- 80 85 100				PB3	1	1	
B4 1	-			PB4	-	95 110				PB4	1	1	
B5 1 MONUMENT 1	-		PB4	B2	20	- 35				PB5	-	1	
TOTAL: 5	3		PB4	PB5	175	- 190				PB6 PB7	- 1	1 -	
TOTAL. 3	3		PB5	PB6	115	- 130				PB8	1	_	
			PB6	B3	10	- 25				TOTAL:	5	6	=
			T	OTAL:	350	260 785				TOTAL.	ŭ	Ü	
					YELLO	OW FLASHING B	BEACON						
					· · · · · · · · · · · · · · · · · · ·	657.0420	658.0103	658.0210	658.0605				
				656.020				BACKPLATES		658.5069			
				METER				SIGNAL FACE	12-INCH	SIGNAL			
				BREAKE PEDESTA		ALUMINUM 13-FT	12-INCH VERTICAL	1 SECTION 12-INCH	YELLOW BALL	MOUNTING HARDWARE			
		LOC	CATION	LS	EACH	EACH	EACH	EACH	EACH	LS			
			ELLOW BEACON		1	1	1	1	1	1	<u> </u>		
			TOTAL	L: 1	1	1	1	1	1	1			
L ITEMS AND QUANTITIES ON HIS SHEET ARE CATEGORY 010 NLESS NOTED OTHERWISE													

LOCATION PROJECT 1580-29-70 STH 13 SB ON RAMP STH 13 NB ON RAMP B-50-48 TOTALS:	RESUFRACING SUF REFERENCE LF 40450	650.9910 650.9920 PPLEMENTAL SLOPE CONTROL STAKES  LS LF  1 175 - 175 - 520  1 870	NE CORNER O NE CORN NE CORNER O		APPROXIMATE STATION  576+50 656+50 683+00 709+15 735+25	EACH 4 4 4 4	SPV.0060.03 REESTABLISH SECTION CORNER MONUMENTS EACH 1 1 1 1
SAWING ASPHALT  LOCATION  INTERCHANGE REMOVAL  INBERG RD CURB & GUTTER REMOVAL  CTH A CURB & GUTTER REMOVAL  DRIVEWAYS		LOCATION  CULVERT REPLACEMENT STA 4 STH 13 SB OFF RAMP CURB REM STH 13 NB OFF RAMP CURB REM STH 13 NB OFF RAMP CURB REM STH 13 NB ON RAMP CURB REM CULVERT REPLACEMENT STA 6 CULVERT REPLACEMENT STA 6	690.0250 LF 38+75 60 MOVAL 365 IOVAL 110 MOVAL 365 IOVAL 115 10+68 60	SPV.009 LOCATION LF UNDISTRIBUTED 250 TOTAL: 250	USE AS NEEDED	REMARKS	REPLACEMENTS
 LANE SHIFT  SF  CULVERT STA 610+68 CULVERT STA 658+80 TOTAL:	PV.0060.01 EA 1 1	REMOVE, SALVAGE, AND REINSTALL FLASHING RED BEACON ASSEMBLY SPV.0060.02 EA CTH A NB 1 CTH A SB 1 TOTAL: 2		OVE AND SALVAGE SHING BEACONS SPV.0105.01 LS CTH A 1 TOTAL: 1			

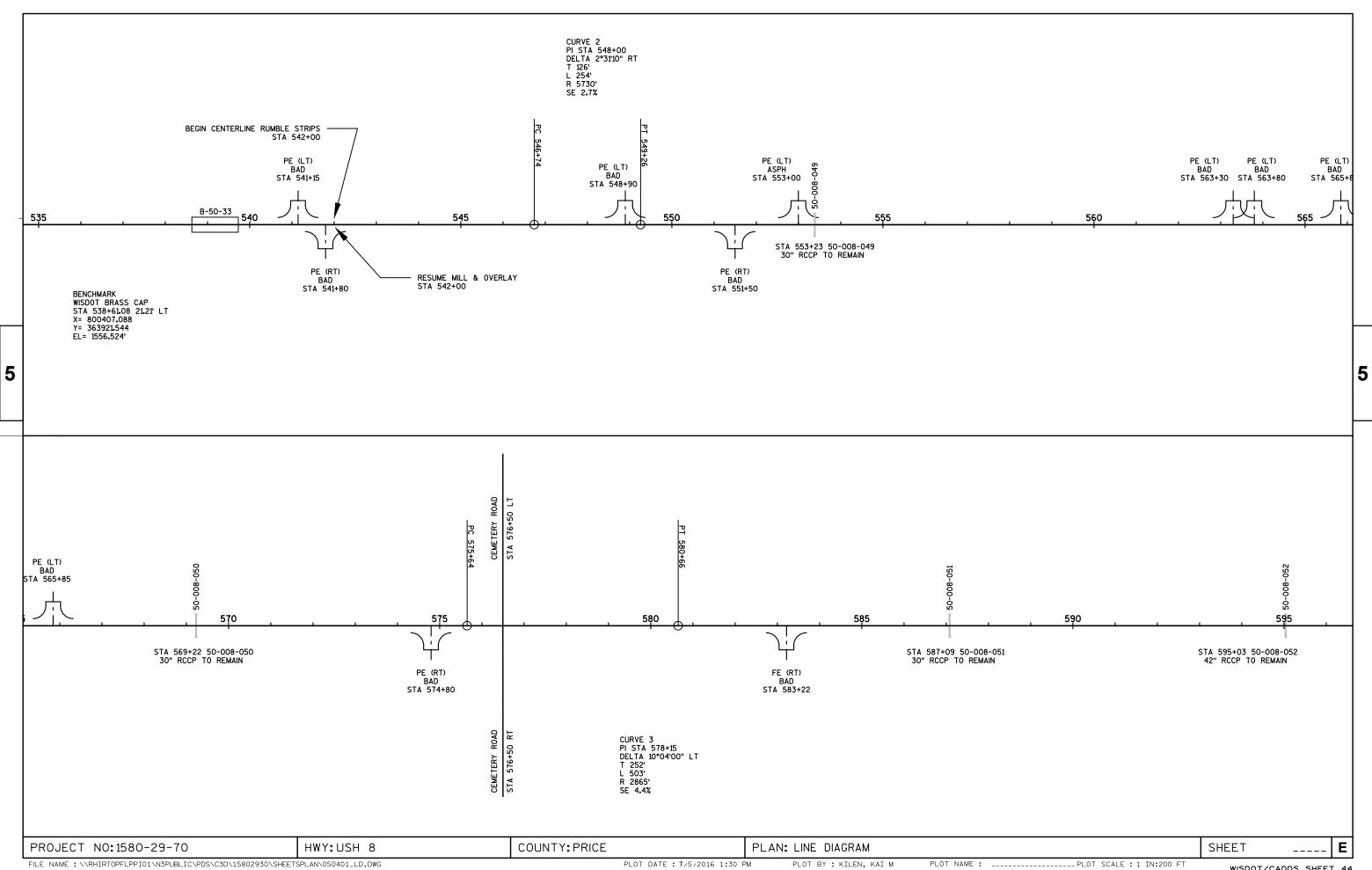


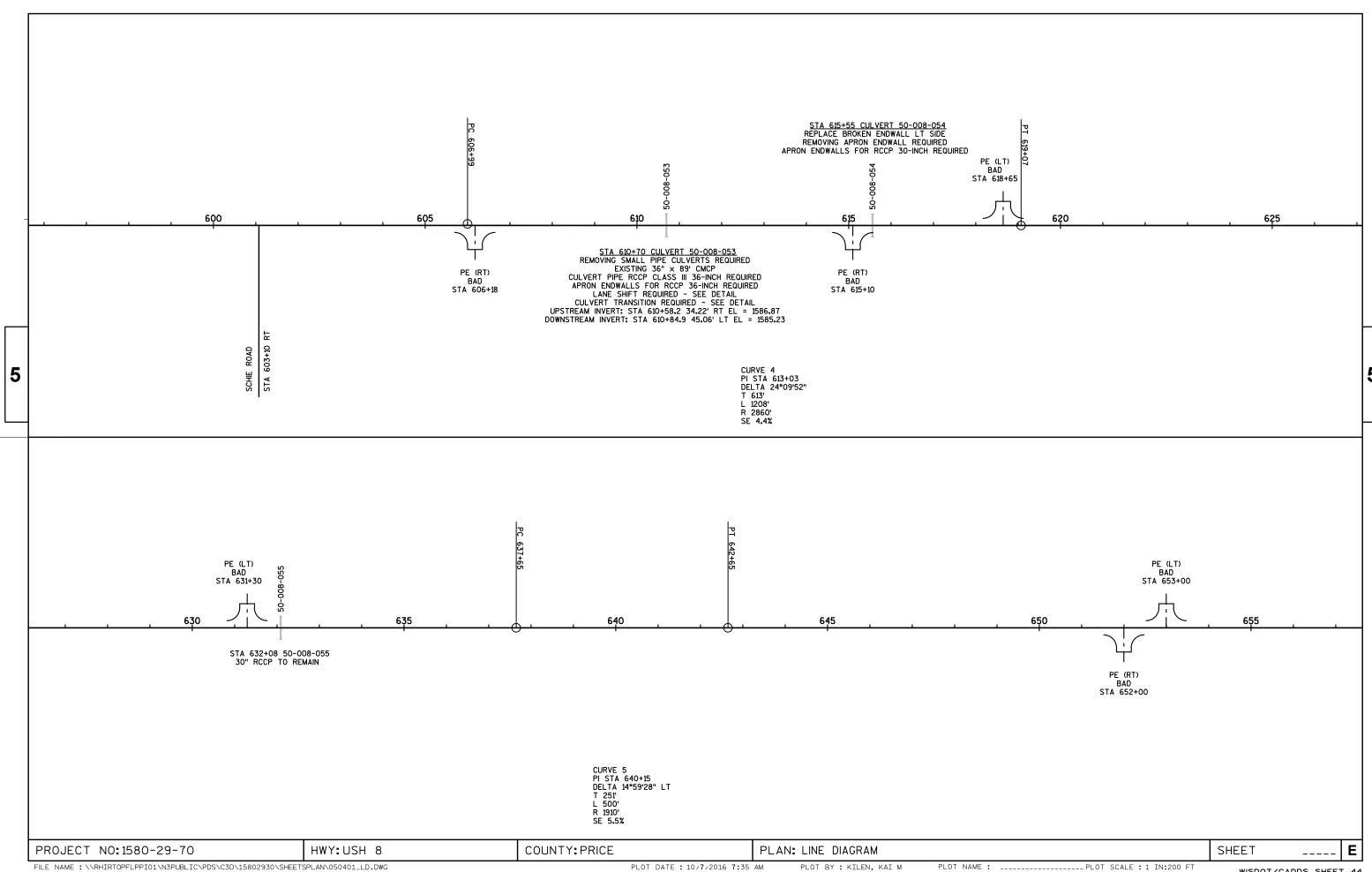


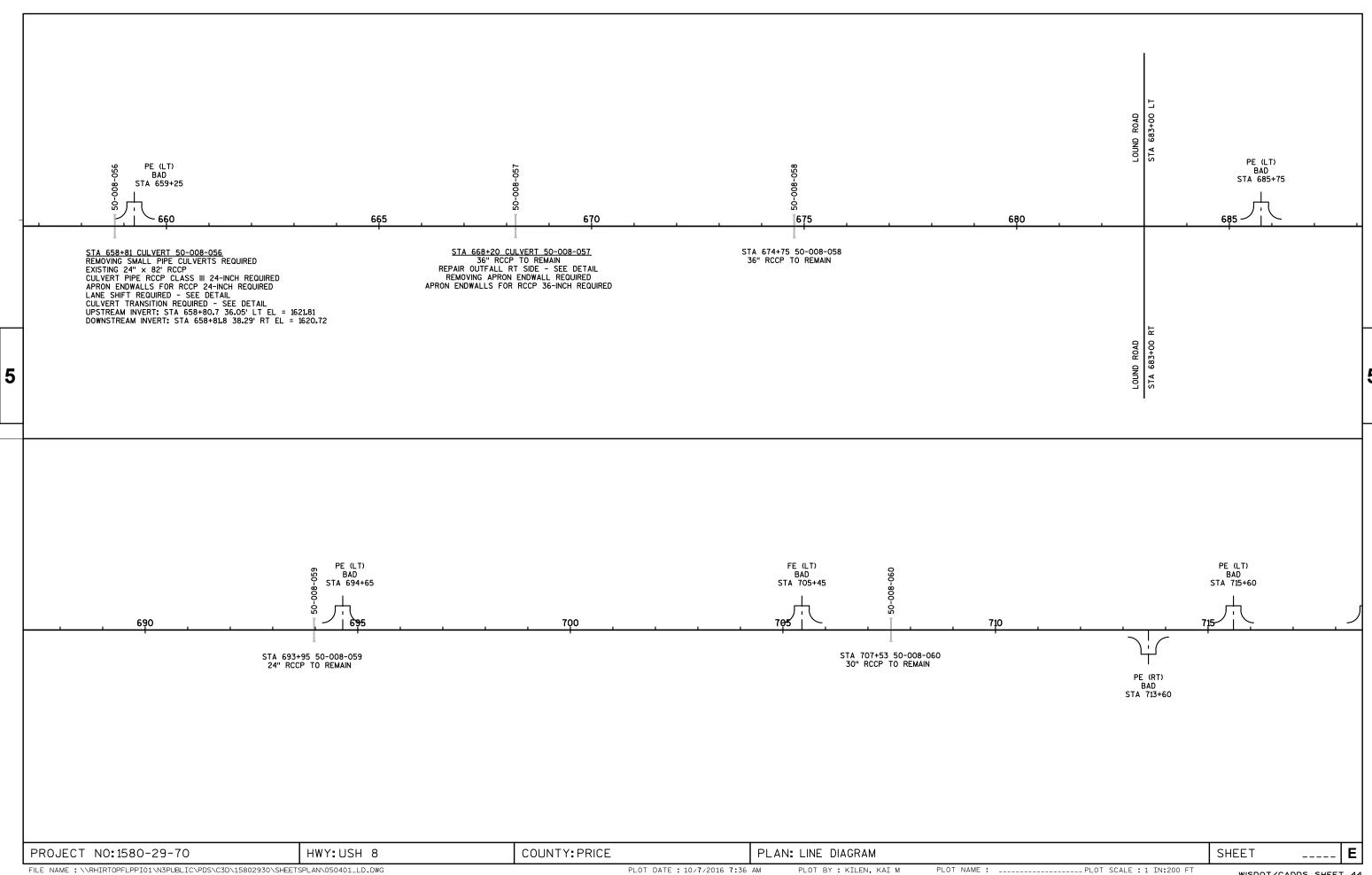




WISDOT/CADDS SHEET 44

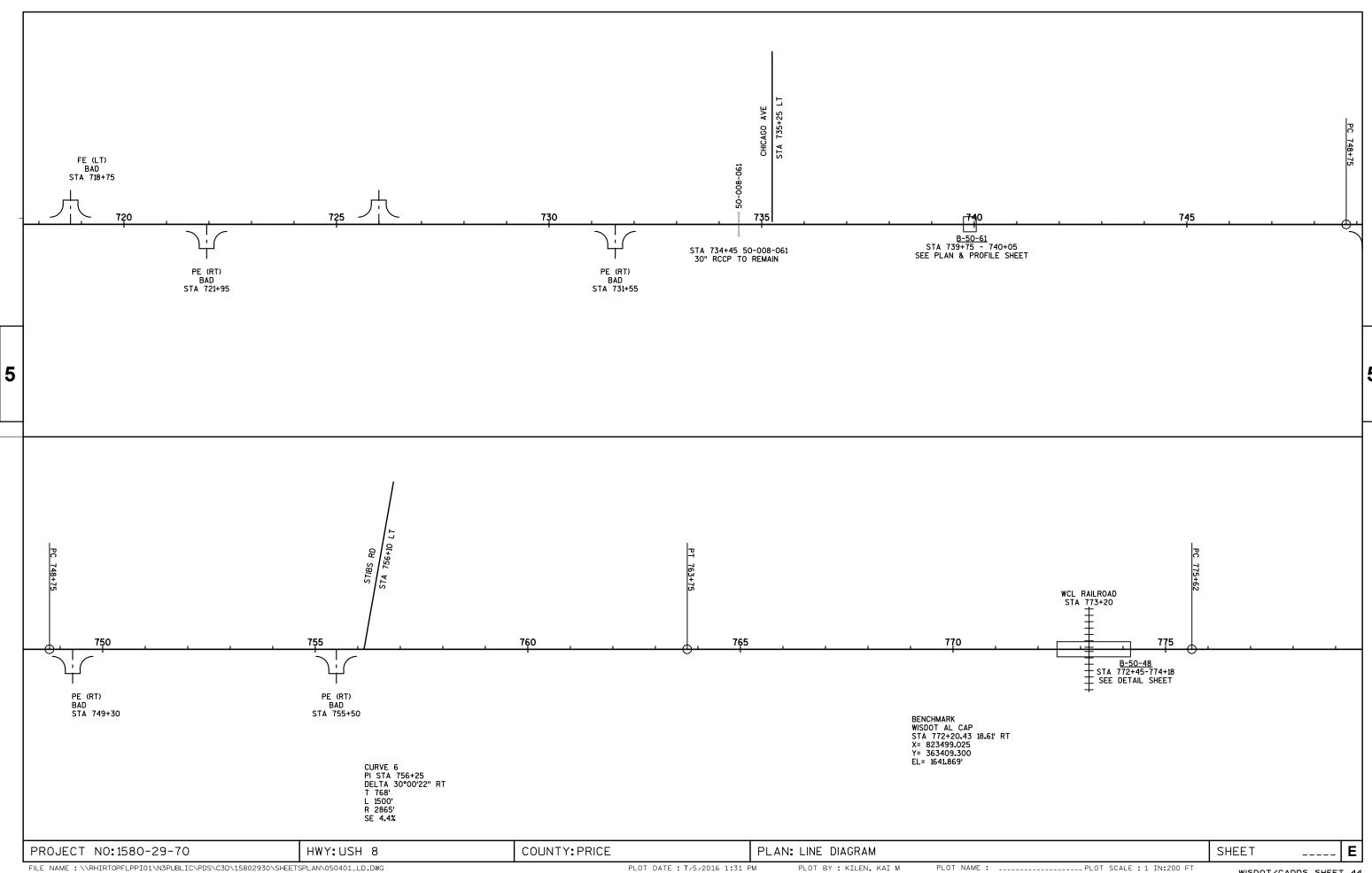


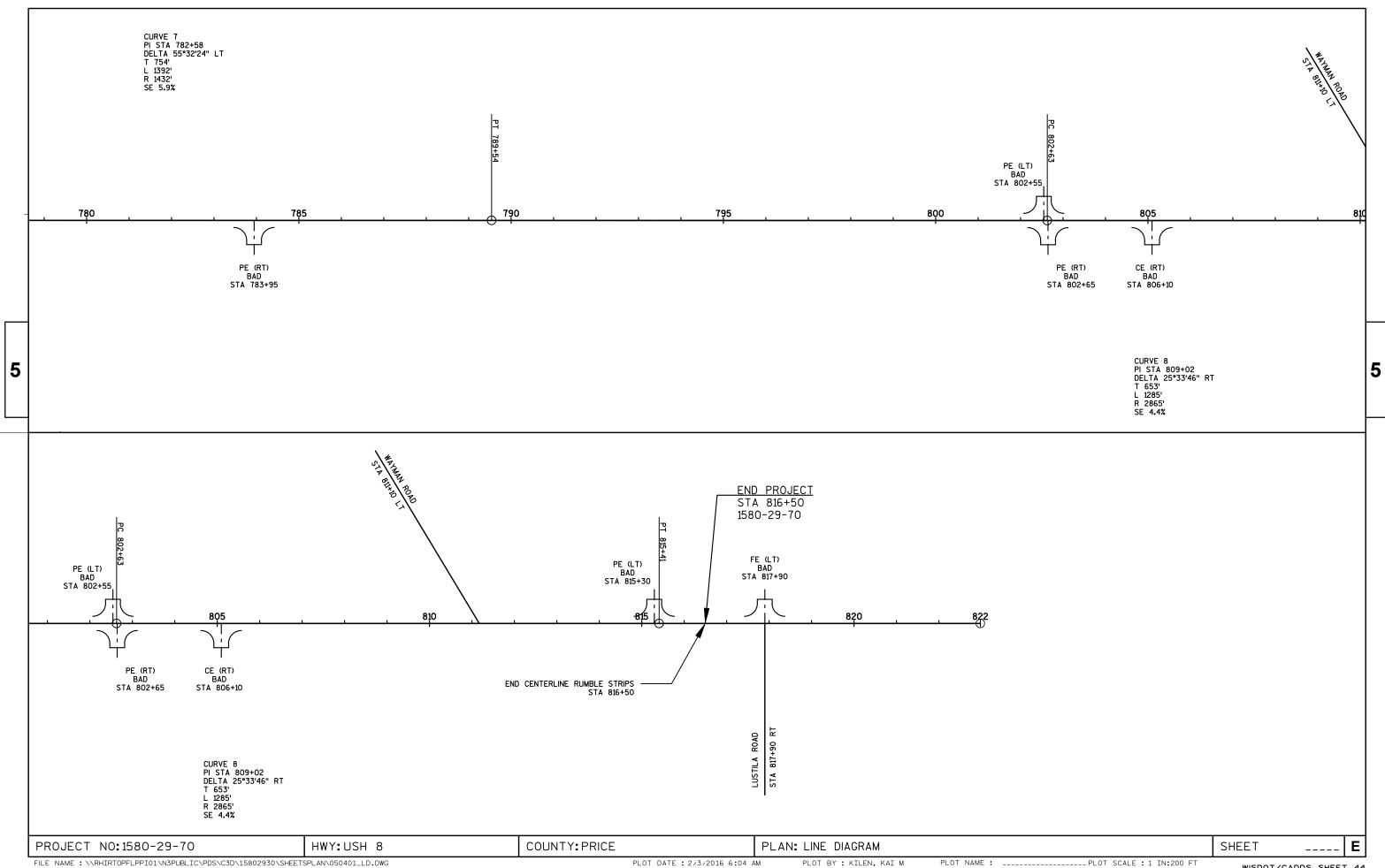




PLOT DATE: 10/7/2016 7:36 AM

WISDOT/CADDS SHEET 44





FILE NAME: \\RHIRTOPFLPPI01\N3PUBLIC\PDS\C3D\15802930\SHEETSPLAN\050401\_LD.DWG

PLOT DATE: 2/3/2016 6:04 AM

PLOT NAME : \_\_\_\_\_PLOT SCALE : 1 IN:200 FT

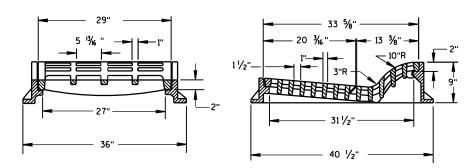
WISDOT/CADDS SHEET 44

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# Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08D01-18 08E08-03	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-09	CONDUI T
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09003-04	TRANSFORMER/PEDESTAL BASES
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E07-05 09G02-03A	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F 14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B26-03A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C 14B44-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL 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)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A 15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-02	FLEXIBLE MARKER POST FOR CULVERT END TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-02 15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-03	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-03 15D33-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
13033-03	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

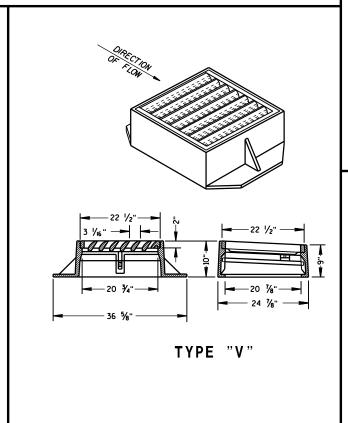
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TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

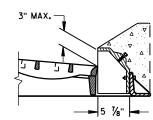
# 25 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 23 ½" 25 ½" 23 ½" 25 ½" 25 ½" 26 ½" 27 ½" 28 ½" 28 ½" 29 ½" 20 ½"



### 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.

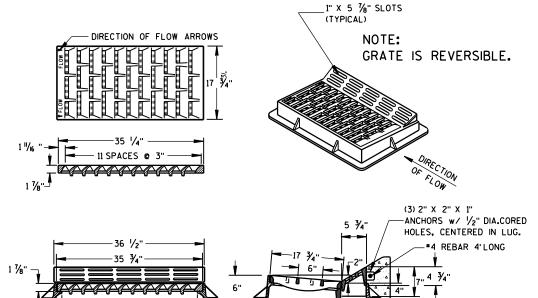
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



# 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

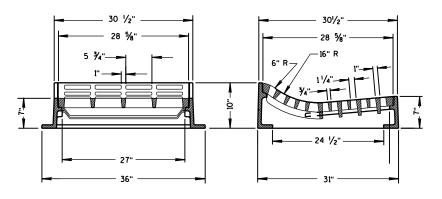
NOIE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



### 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 "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



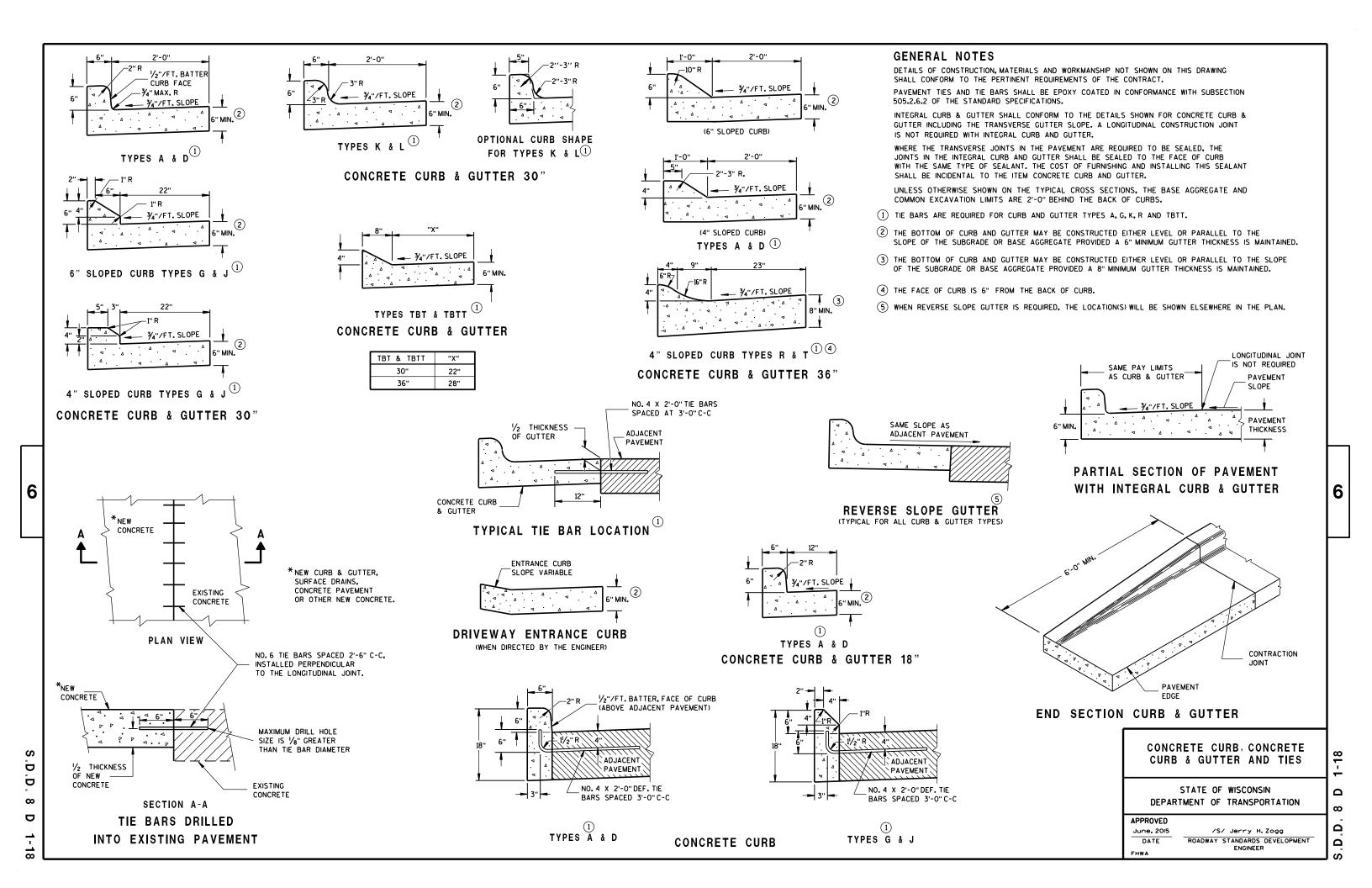
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

II/27/2013
DATE / /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

A 5-19

D.D. 8



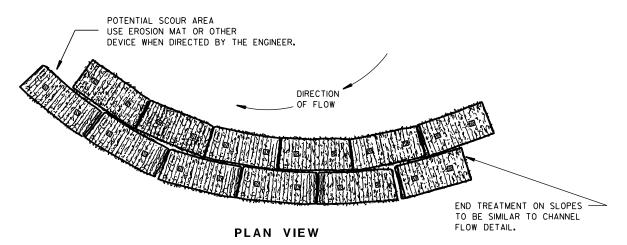
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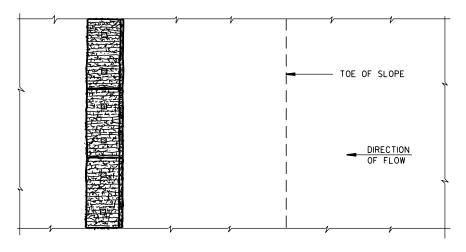
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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

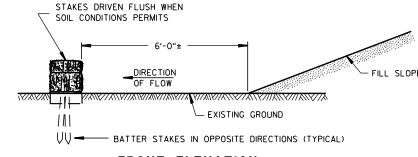
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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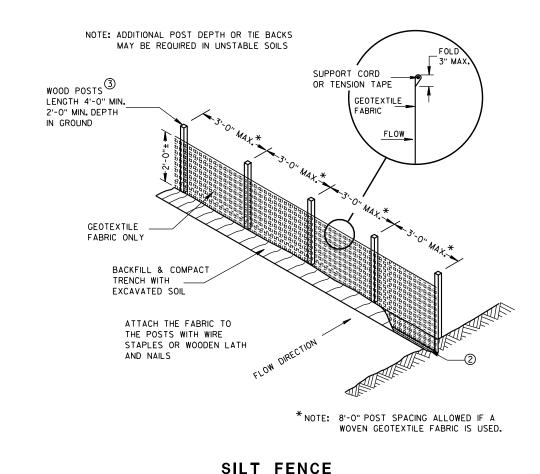
## TYPICAL APPLICATION OF SILT FENCE

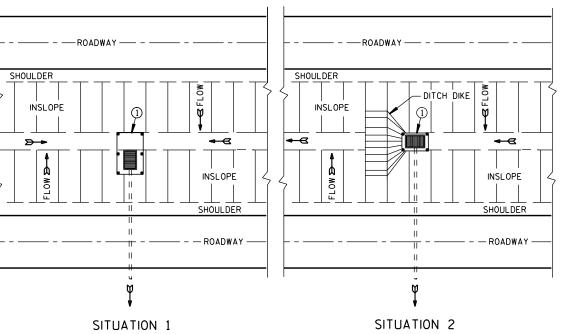
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b

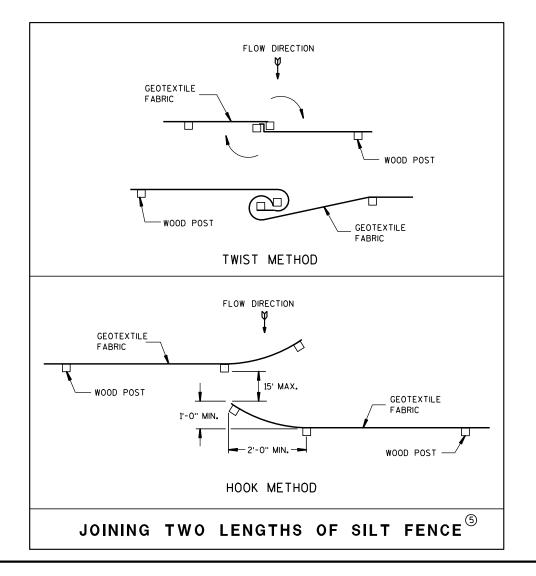
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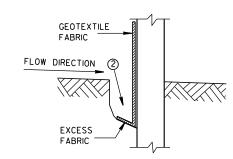
# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



### GENERAL NOTES

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

- $\bigcirc$  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 11/8" X 11/8" 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 TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

6

D.D. 8 E 9-6





INLET PROTECTION, TYPE A

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

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.



## INLET PROTECTION, TYPE C (WITH CURB BOX)

## **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

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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METAL APRON ENDWALLS											
PIPE	MIN. THICK.				ADDDOV						
DIA.	(Incl		A	В	Н	L	Li	L2	W	SLOPE BOD	
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1Pc.
18	.064	.060	8	10	6	31	15	28 <sup>1</sup> / <sub>4</sub>	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	<b>.</b> 075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	<b>.</b> 075	12	16	8	51	18	521/4	60	21/2 to 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	<b>.</b> 105	16	22	11	69	24	75 1/8	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	<b>.</b> 105	18	30	12	84	30	851/2	102	21/4+0 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	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87		_	150	1½+o 1	3 Pc.

\* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE		APPROX.						
DIA.	T	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1/2}$	24	731/2	54	31/4	3 to 1
30	31/2	12	54	193⁄4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	* ** 33 <sup>1</sup> / <sub>4</sub> -35	* 98 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

\*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

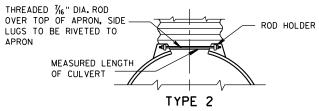
END SECTION CONNECTOR STRAP LUG

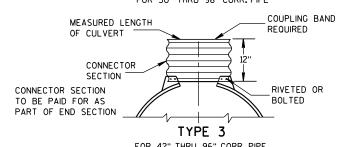
1" WIDE, 12 GA. (0.109"

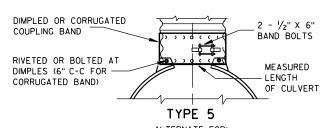
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





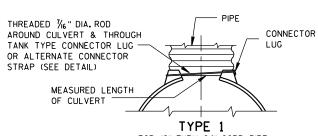


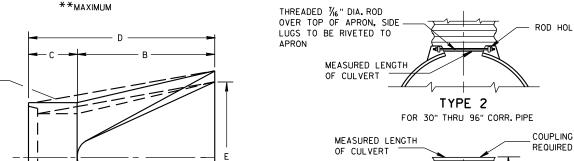
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

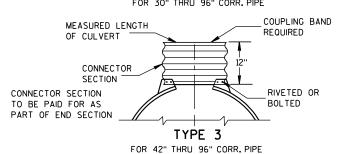
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

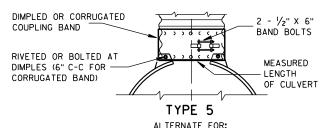
CONNECTION DETAILS 1, 2 OR 5.

# ALTERNATE FOR TYPE 1 CONNECTION







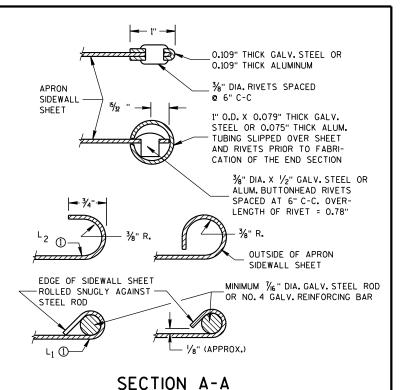


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

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

CONNECTION DETAILS



# GENERAL NOTES

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

CONCRETE 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

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

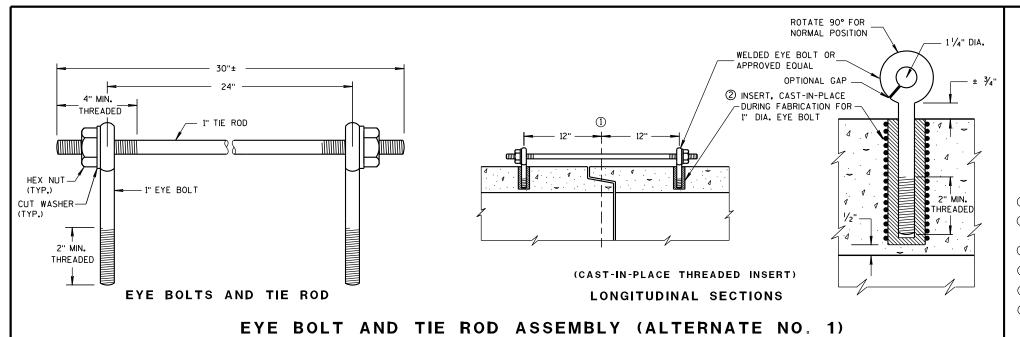
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



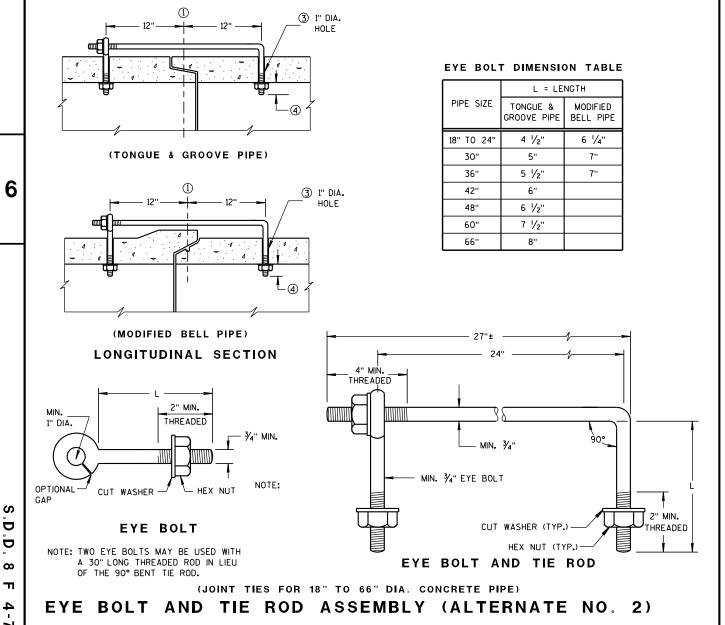
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

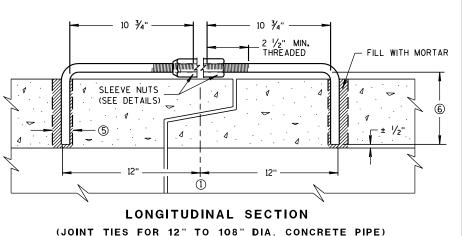
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  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  $rac{1}{2}$  INCH OF THE INNER SURFACE OF THE PIPE.

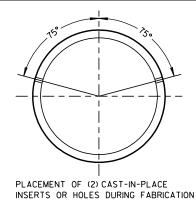


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# ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

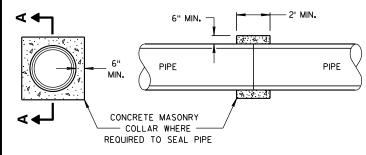


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

#### TRANSVERSE SECTION



SECTION A-A

## CONCRETE COLLAR DETAIL

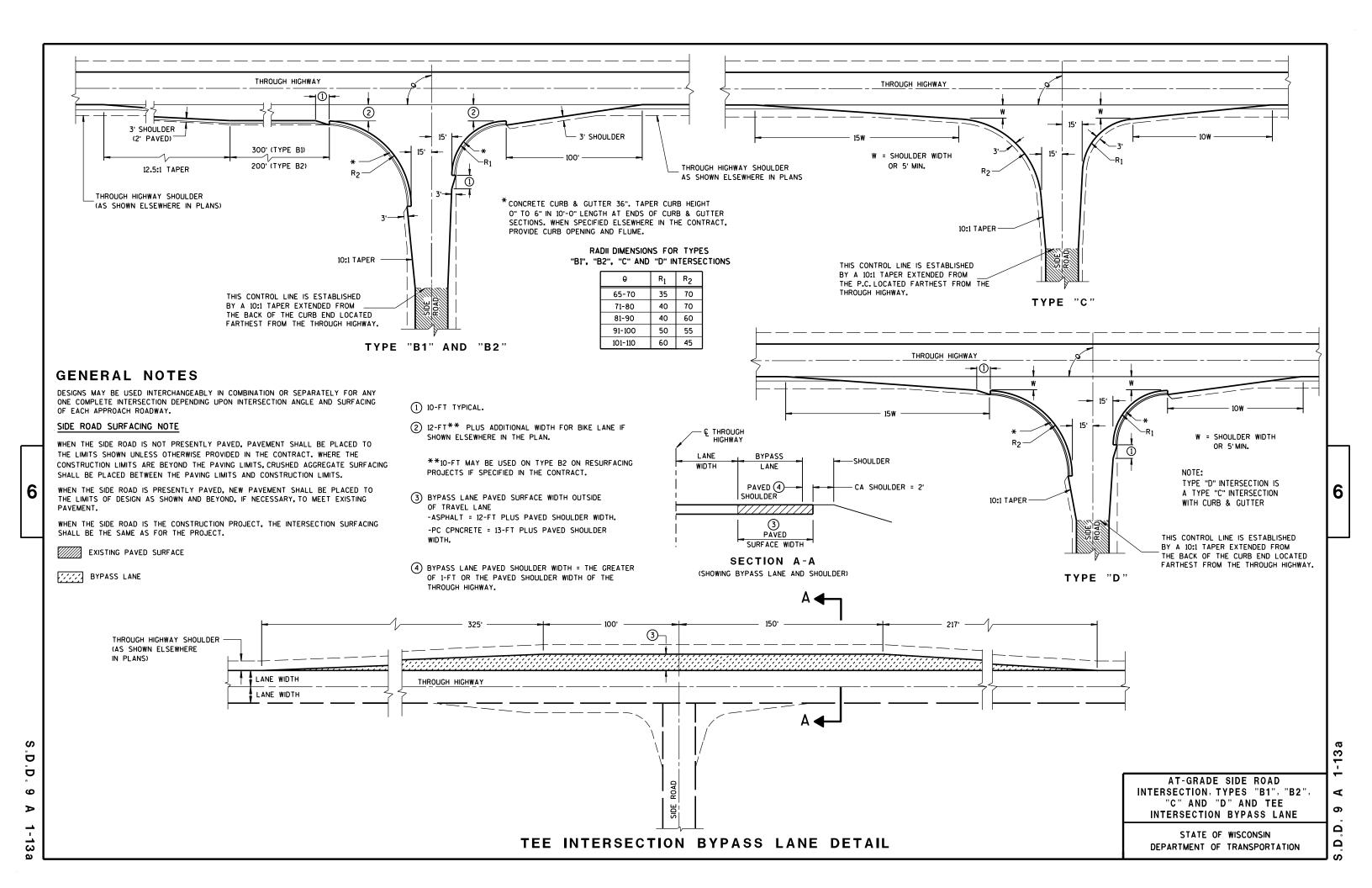
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

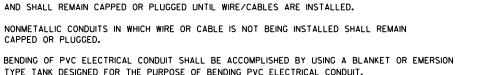
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

**GENERAL NOTES** 

AND 36 INCHES MAXIMUM.

OF THE ENGINEER.

CAPPED OR PLUGGED.

MINIMUM AND 36 INCHES MAXIMUM.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

BOTTOM OF ¼" HOLE PVC CONDUIT-CONDUIT TRENCH FOR DRAINAGE NO. 2 COARSE AGGREGATE FILL —1'-0" DIA. OR SQUARE —>

NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

BOTTOM OF

CONDUIT TRENCH

NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT

1'-0" DIA. OR SQUARE ──➤

METALLIC CONDUIT-

1" DIA. X 6"

NIPPLE

NO. 2 COARSE

AGGREGATE FILL

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4" TO 3/8"

DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER

**PLAN VIEW** 

ARROW MARK

CONDUIT

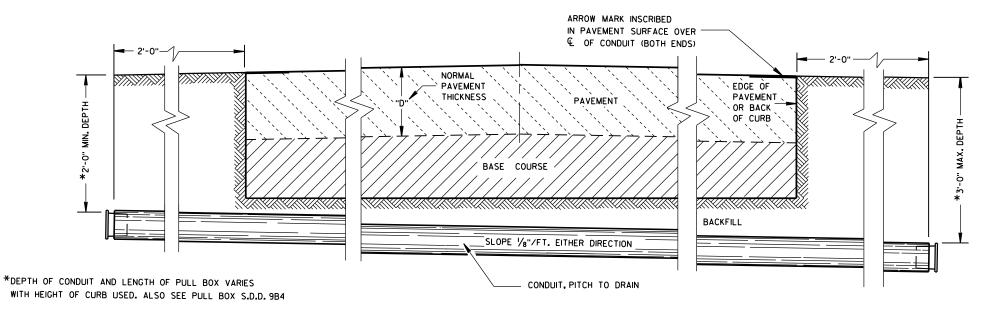
THE PAVEMENT

EDGE OF

PAVEMENT OR BACK

OF CURB

DRAIN SUMP FOR PVC CONDUIT



SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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**APPROVED** /S/ Ahmet Demirbilek June. 2015 DATE STATE ELECTRICAL ENGINEER

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FHWA

DIMENSION IN INCHES			CORRUGATED STEEL PIPE							
PIPE DIAMETER (INSIDE)	Α	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	В	24	30	36	24	30	36	36	42	48
WALL THICKNESS	С	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	Ε	14 1/2	14 1/2	14 1/2	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 ½	14 1/2	20 ½	20 ½	20 ½
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 ½	23 ½	23 ½
WEIGHT IN POUNDS *										
FRAME AND COVER	FRAME AND COVER		60	60	110	110	110	155	155	155

- \* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.
- NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

# 6" MAX. **EXTENSION** TOP OF ORIGINAL CORRUGATED PIPE (3) BOLTS, NUTS & LOCKWASHERS REQUIRED

ELECTRIC

FINAL GRADE

ALL METALLIC CONDUIT

AND THREADED

CUT OPENINGS

THE FIELD

2" PVC PIPE CAP ON BOTH ENDS

WITH 7, 8 1/4" HOLES DRILLED

IN EACH END.

PULL BOX

AS REQUIRED IN

ENDS SHALL BE REAMED

ALL CONDUIT PITCHED

4 TO 8 BRICKS

EQUALLY SPACED

TO DRAIN TO PULL BOXES

2" DRAIN DUCT TO

DITCH OR SEWER

WHEN SPECIFIED

CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

6" MIN.

(TYP.)

AND COVER

WHEN A PULL BOX IS INSTALLED IN CRUSHED

AGGREGATE SHOULDERS, PLACE IT 2-3

2-3 INCHES OF CRUSHED AGGREGATE

NO. 2 COARSE

(SEE SECTION 501

OF THE STANDARD

WIRE AND/OR CABLE.

INSTALL END BELLS (U.L. LISTED FOR

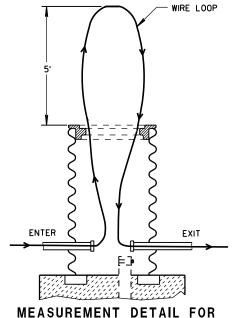
CONDUIT BEFORE INSTALLATION OF

ELECTRICAL USE) ON ALL NONMETALLIC

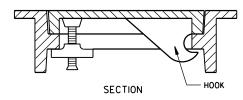
SPECIFICATIONS)

AGGREGATE

INCHES BELOW GRADE AND COVER IT WITH

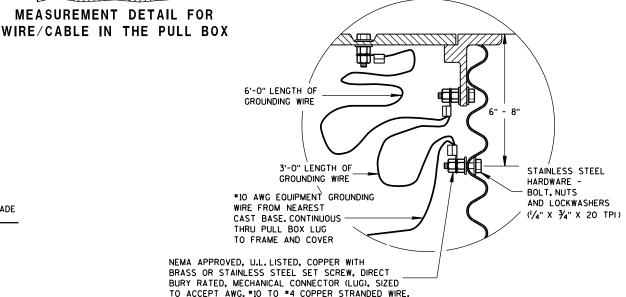


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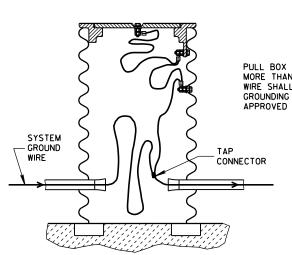


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



**EQUIPMENT GROUNDING LUG AND** LOCATION IN STEEL PULL BOXES



**EQUIPMENT GROUNDING LUG AND** LOCATION IN STEEL PULL BOXES

## PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

## PULL BOX

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 

Sept. 2014 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER FHWA

## **GENERAL NOTES**

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED. SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TRAFFIC LOADS.

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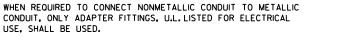
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IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL. THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE.
BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1FOOT OR LESS. A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL

BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE

(GROUND ROD) FOR TYPE 1. TYPE 2. TYPE 5. AND TYPE 6 BASES.

**GENERAL NOTES (CONTINUED)** 

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE

OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A LINCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED. THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- 1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- (2) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5'-0" ANCHOR RODS.
- (4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- (5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- (6) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

**GENERAL NOTES** 

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

# FORMING DETAIL

1'-8"

a)

- FORM

FORMING SHALL BE

CONCRETE HAS SET

REMOVED AFTER

FORM DEPTH SHALL BE

GRADE ON THE LOWER

SIDE OF BASE

4" MAX.

CONDUIT WITHIN

6" DIA.

ANCHOR RODS SHALL BE

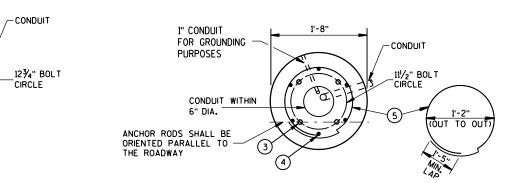
ORIENTED PARALLEL TO

1" CHAMFER ALL AROUND

FORM ALL EXPOSED

CONCRETE, PROVIDE

NO MORE THAN 6" BELOW



QUANTITY

REQUIREMENTS

ARDS OF CONCRETE

APPROX. CUBIC

LBS. OF HOOP

LBS. OF VERTICAL

BAR STEEL

BAR STEEL

CONCRETE BASE TYPE

0.57

23

60

0.40

NONE

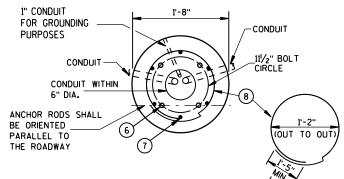
NONE

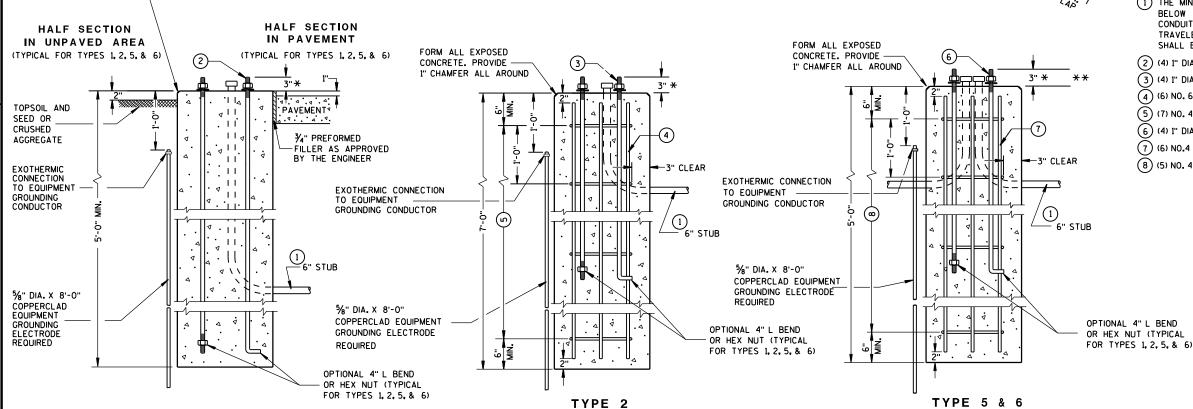
5 & 6

0.40

16

18





**CONCRETE BASES** 

\* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

\*\* FOR NONBREAKAWAY INSTALLATIONS, 41/2" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

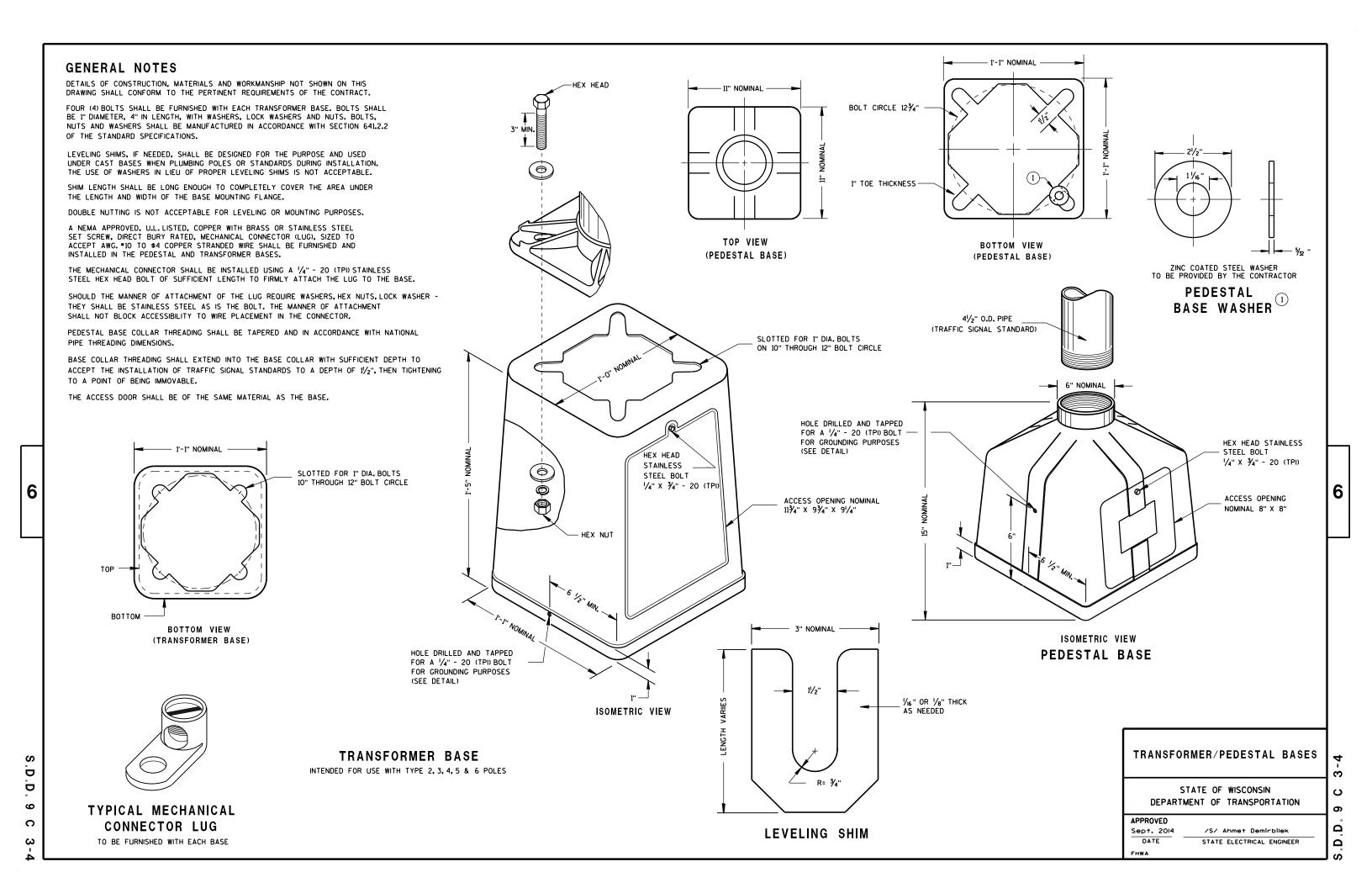
**APPROVED** Sept. 2014 /S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

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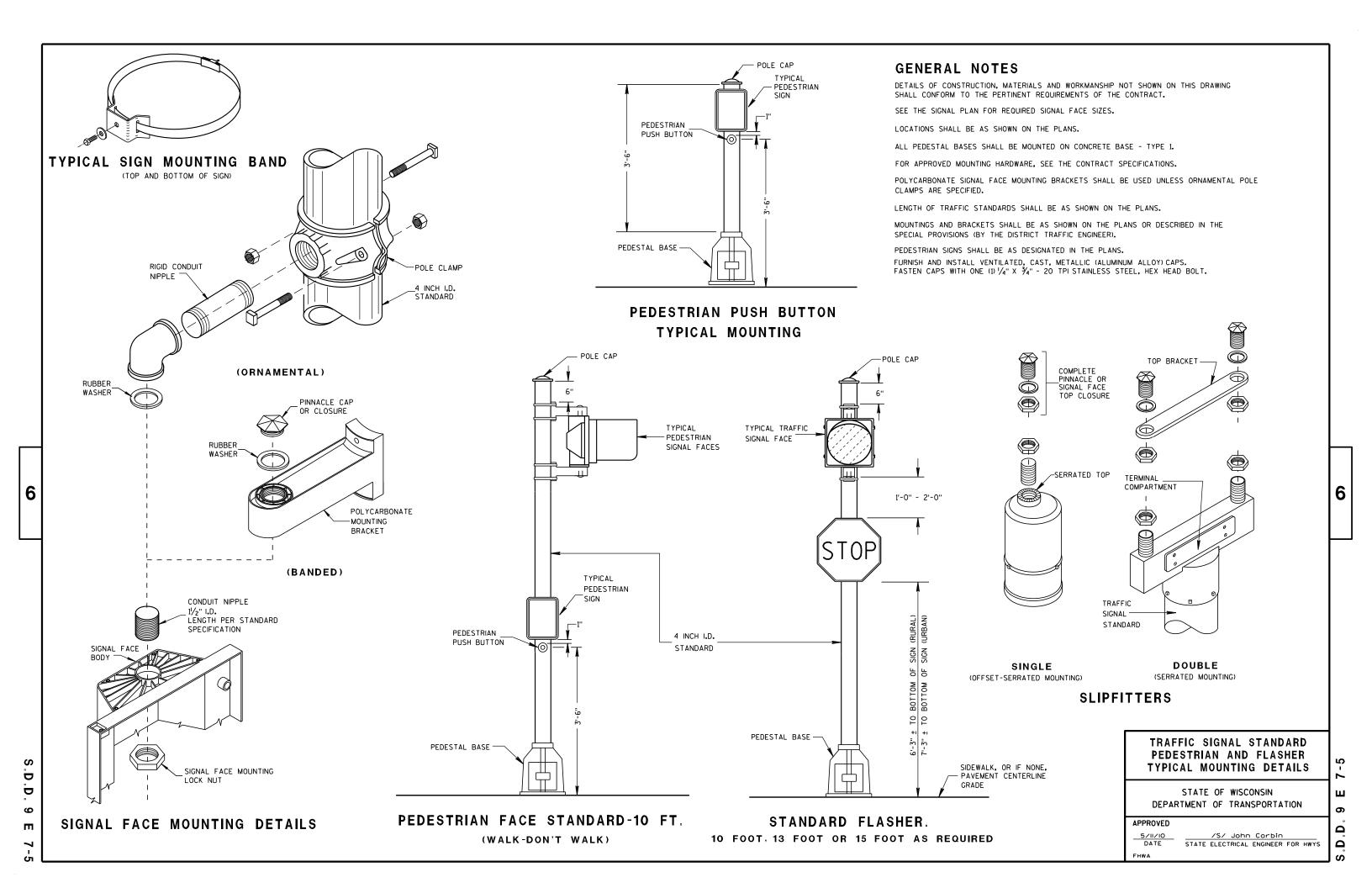
/S/ Ahmet Demirbilek

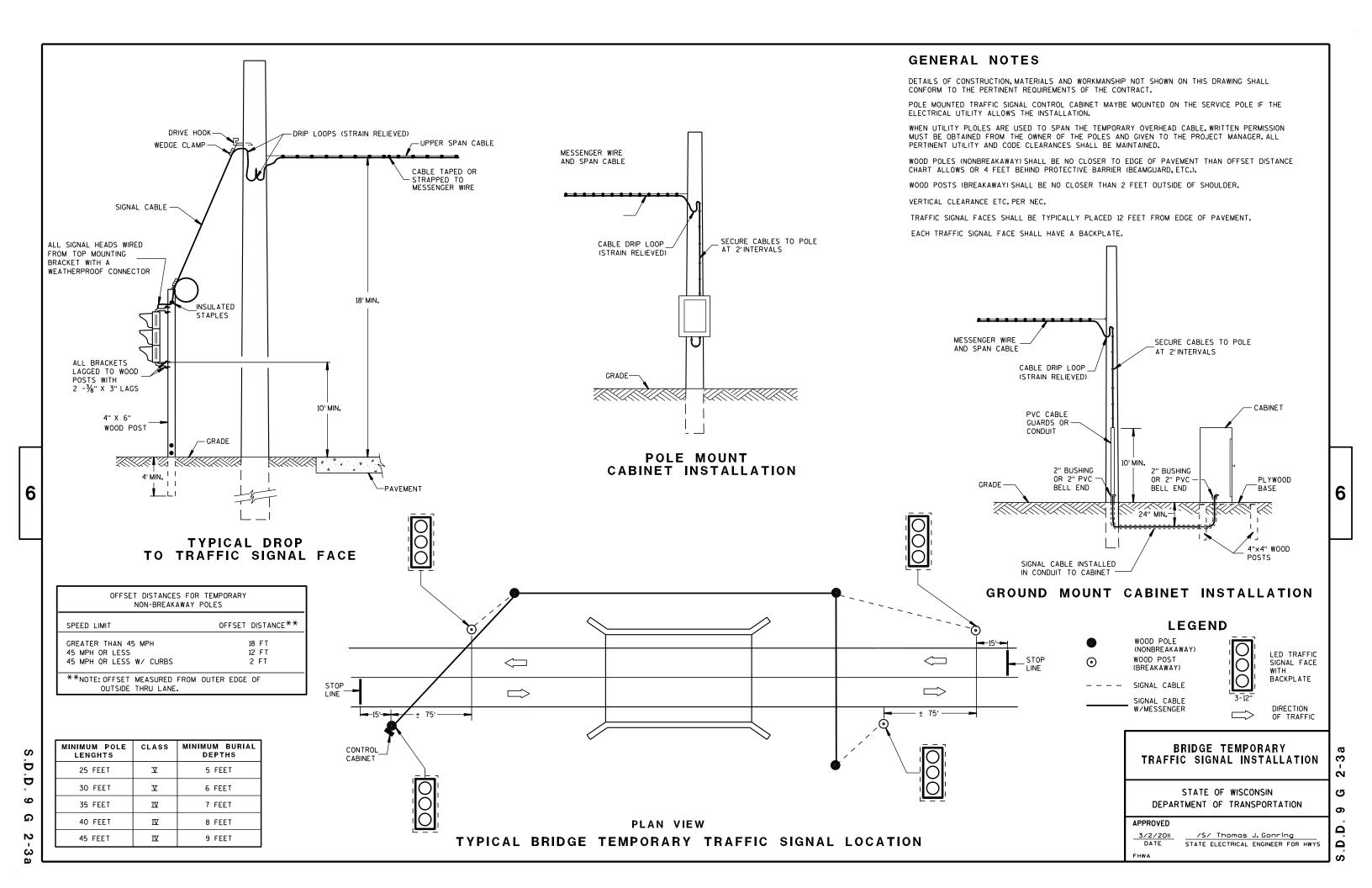
STATE ELECTRICAL ENGINEER

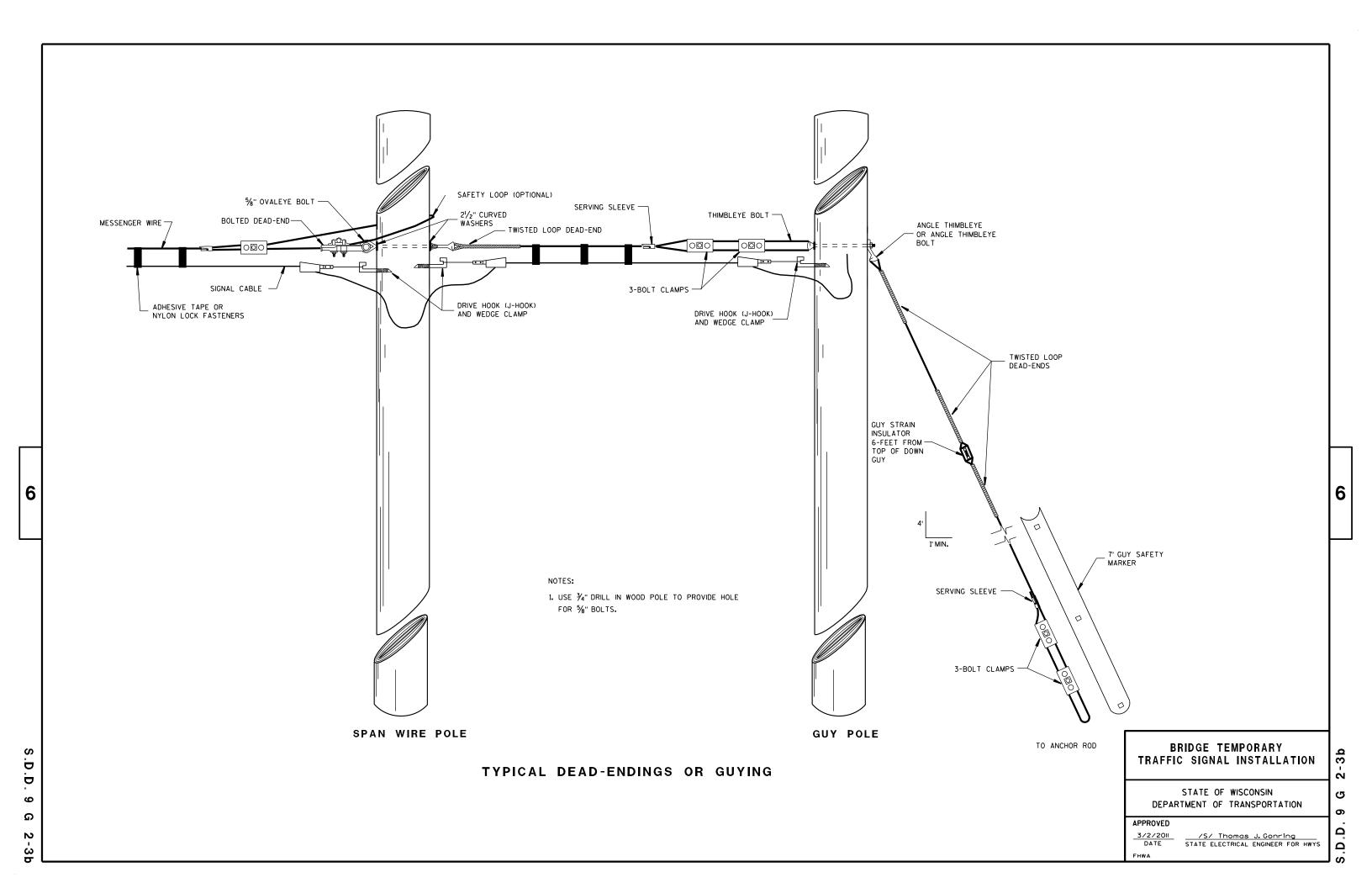
Sept. 2014

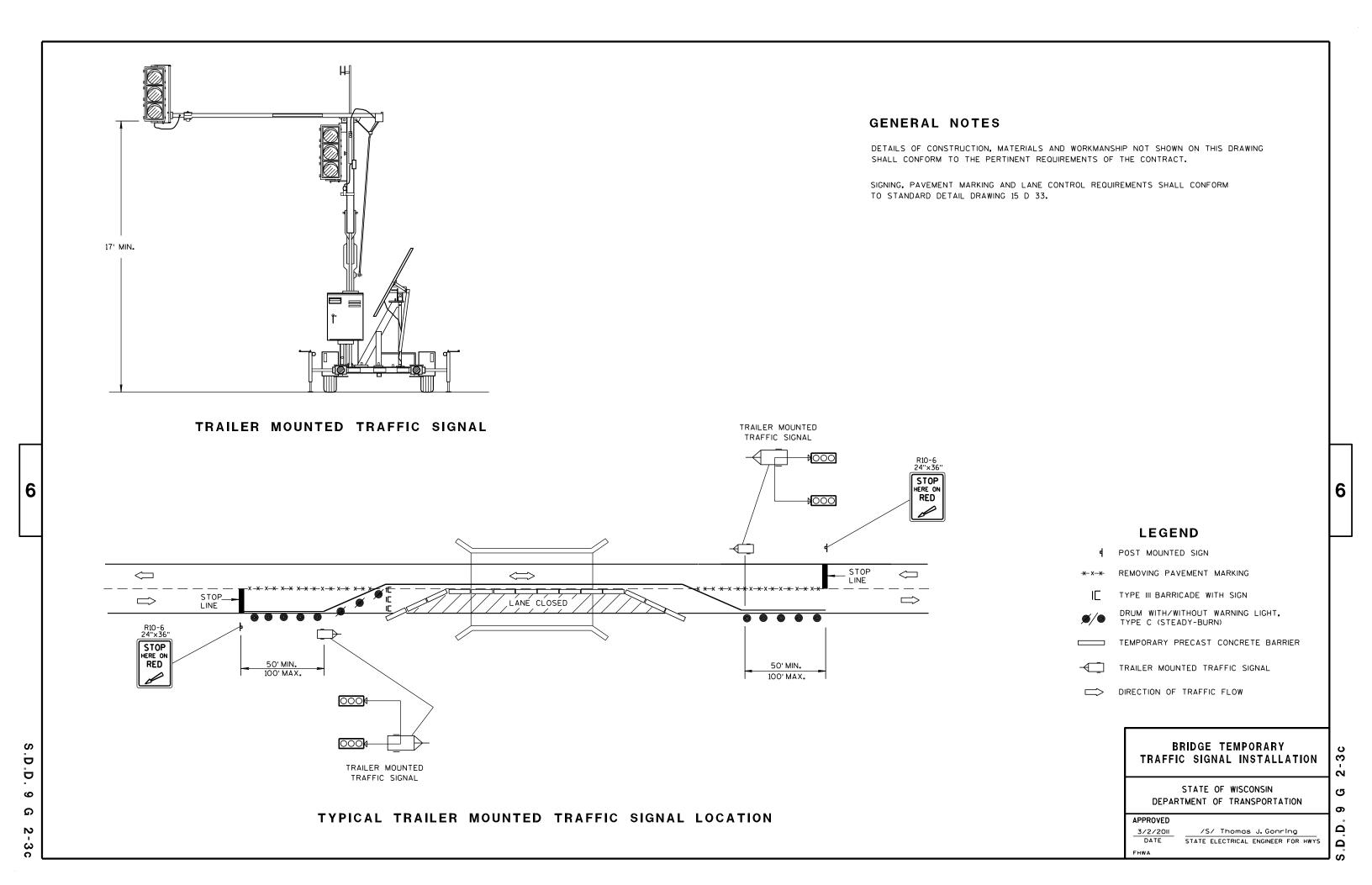
DATE

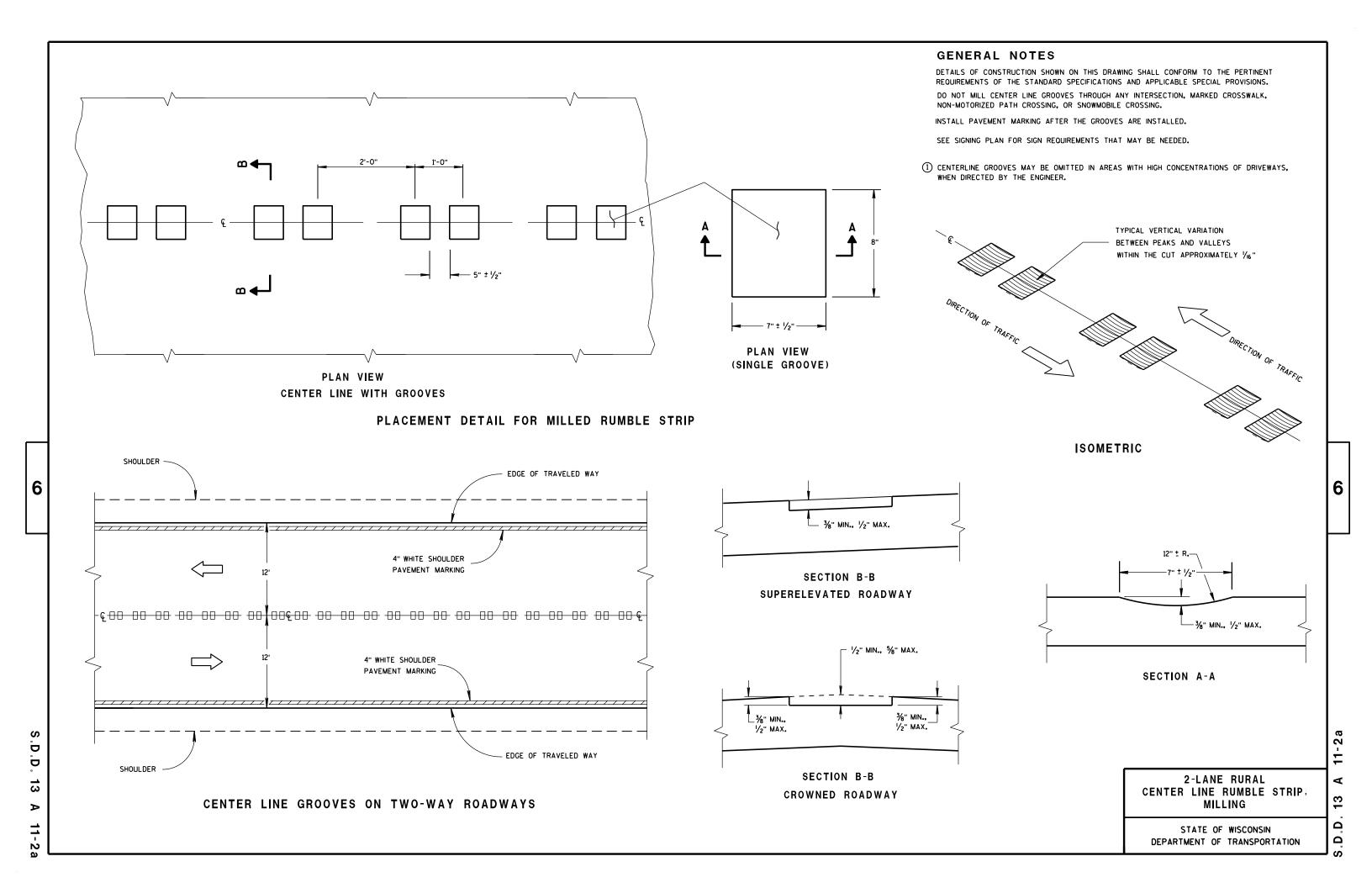
FHWA

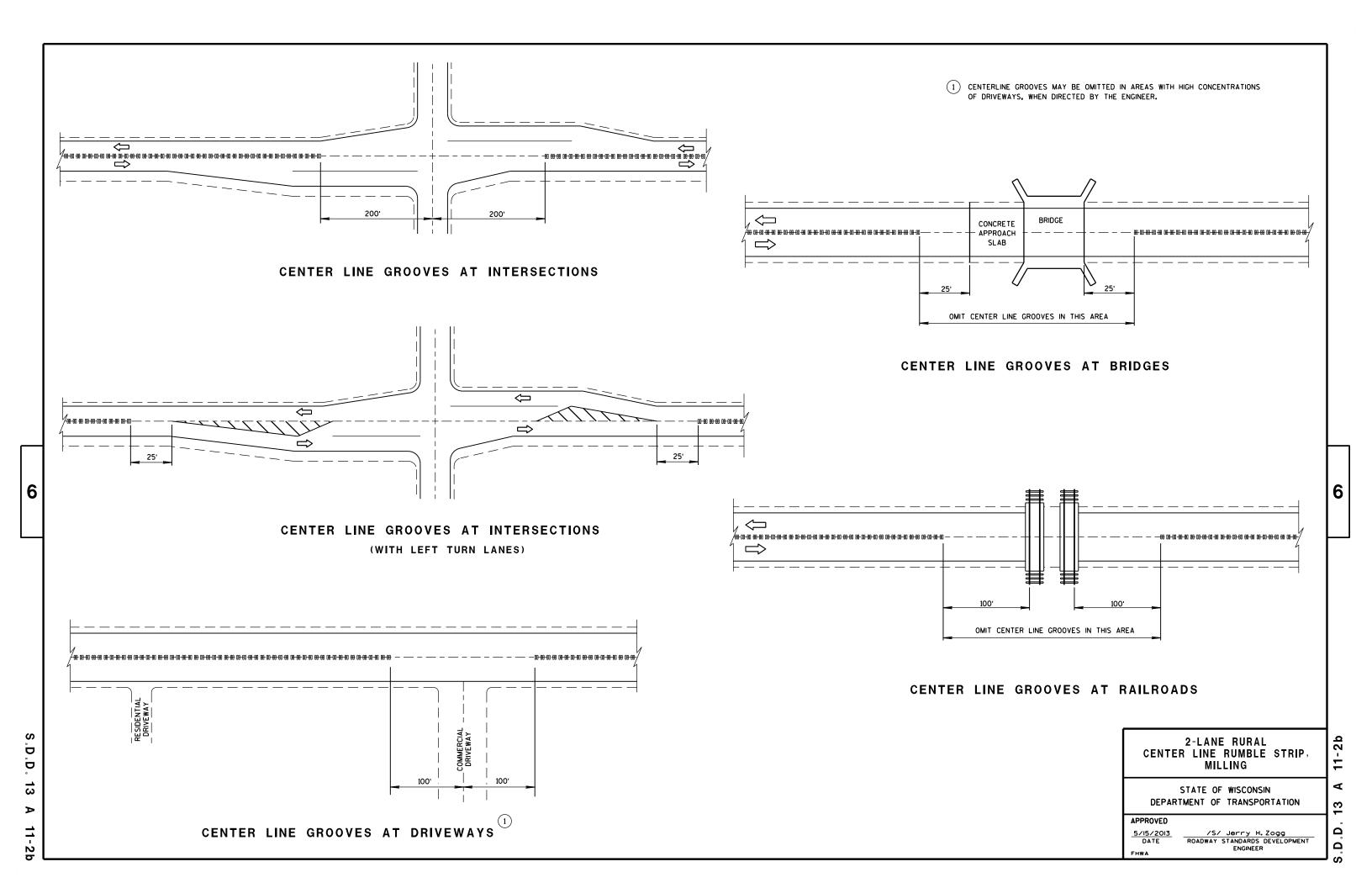


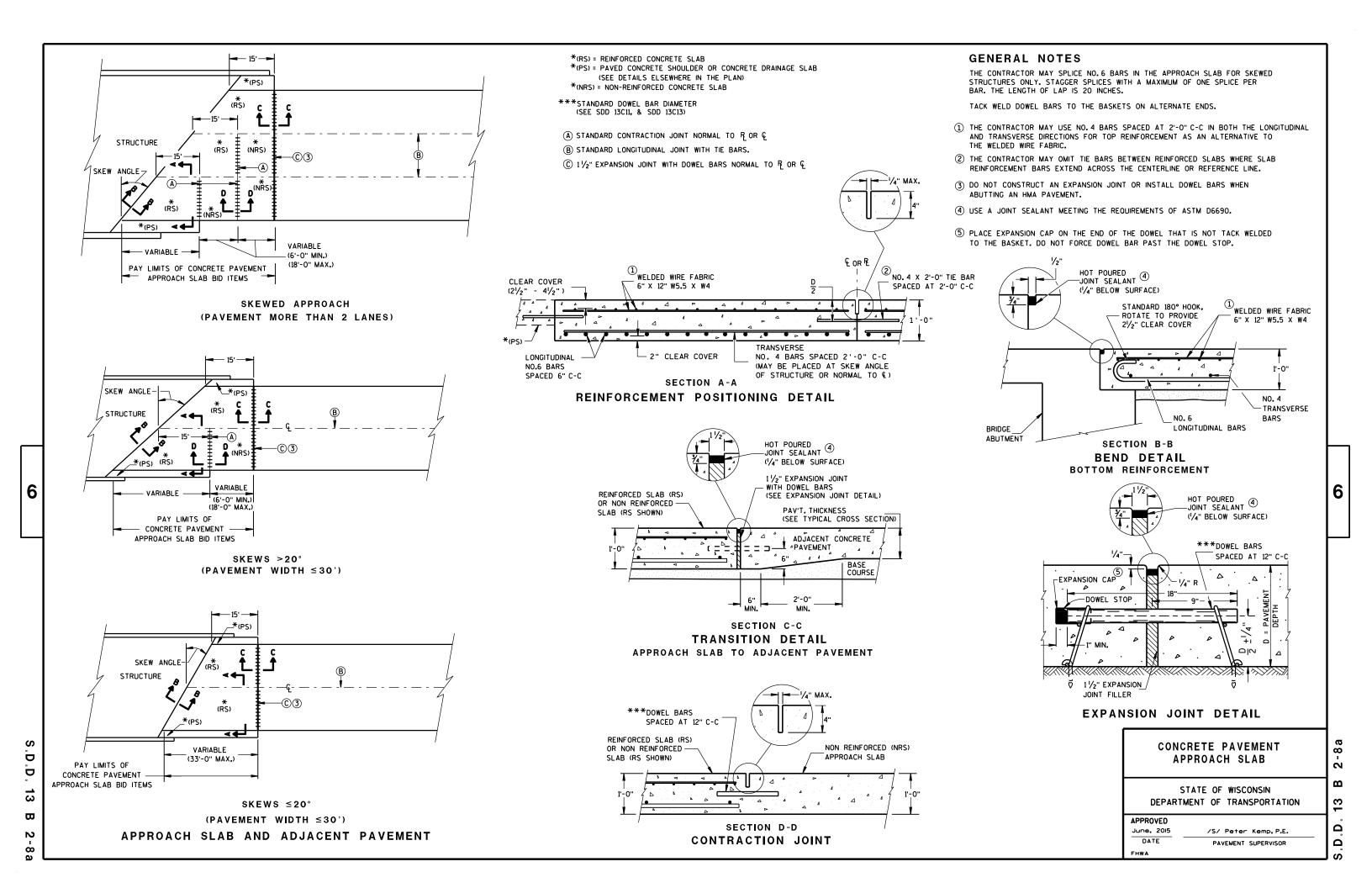


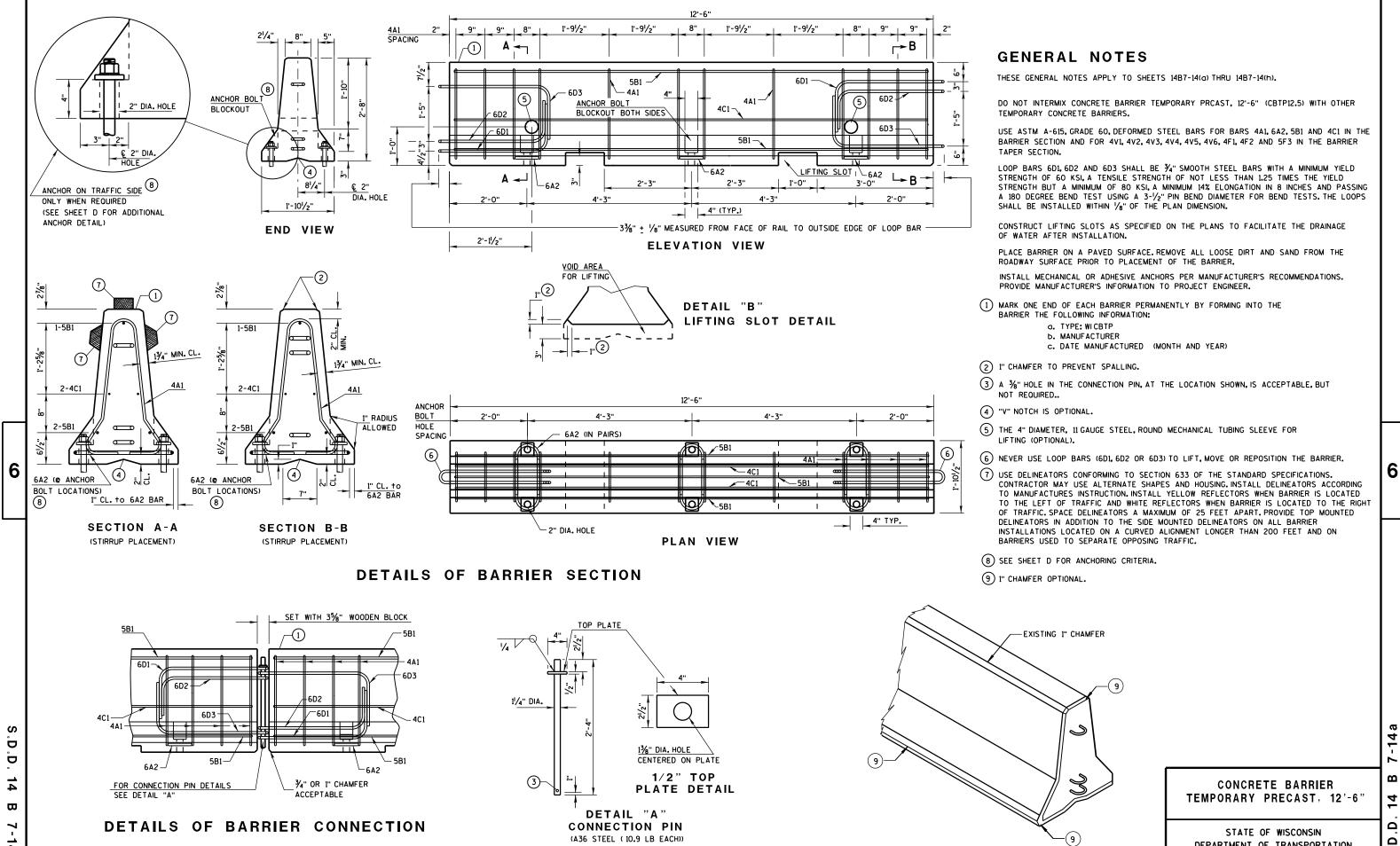




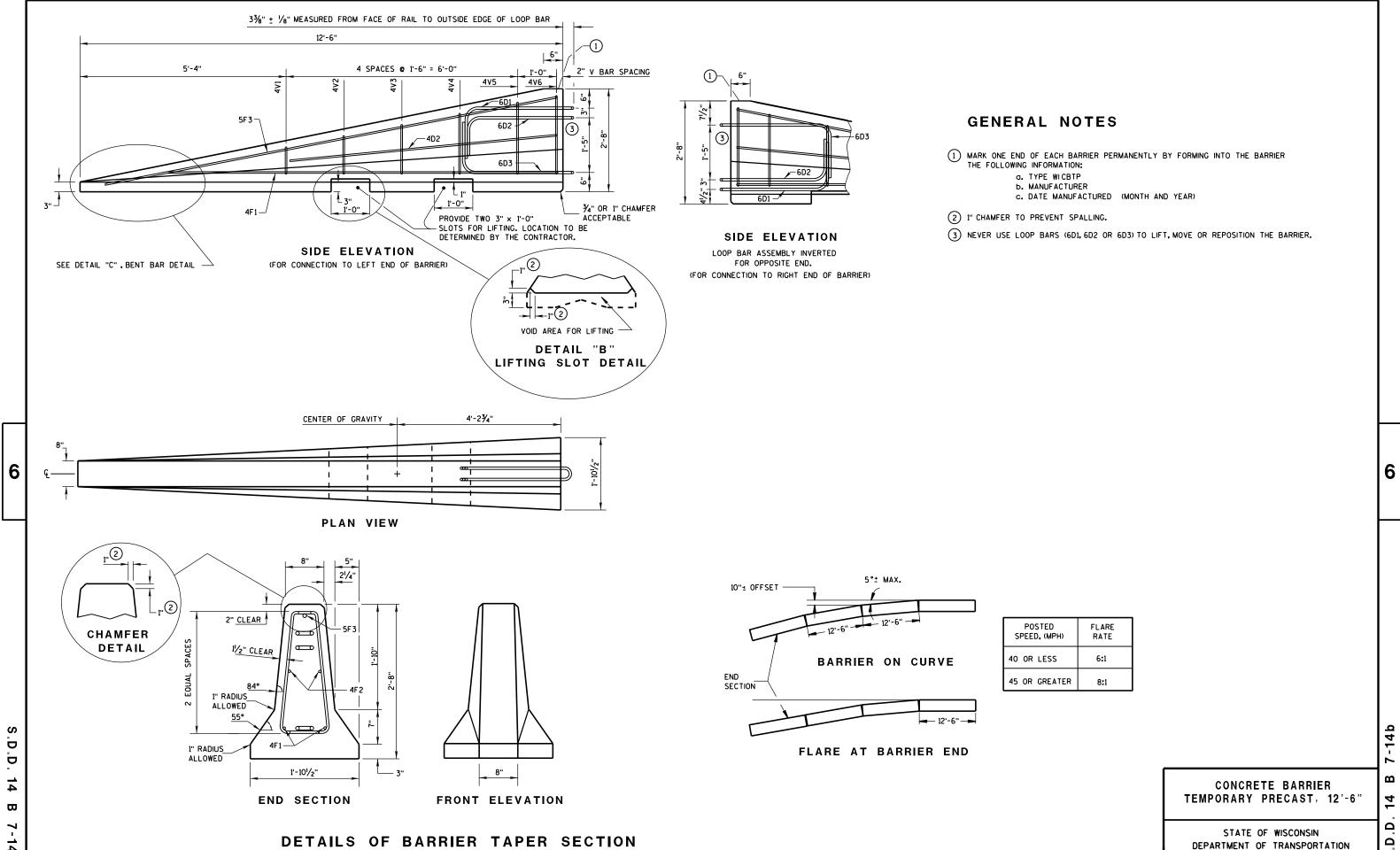








DEPARTMENT OF TRANSPORTATION



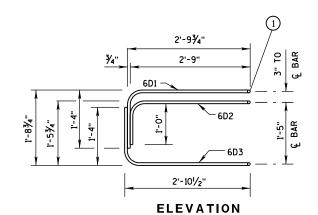
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1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

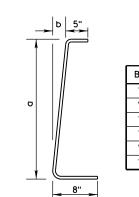
# BARRIER TAPER SECTION BILL OF MATERIALS

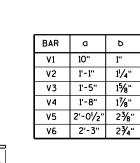
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TAKEN SECTION						
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4٧3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9"			
LOOP ASSEMBLY						
6D1	6	1	8'-5"			
6D2	6	1	7'-7"			
6D3	6	1	8'-6"			
		•	•			



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

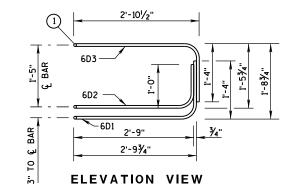
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

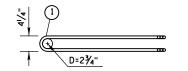
TAPER BARRIER SECTION

# BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

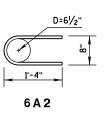
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

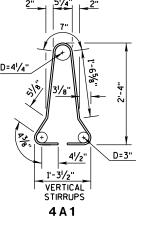




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



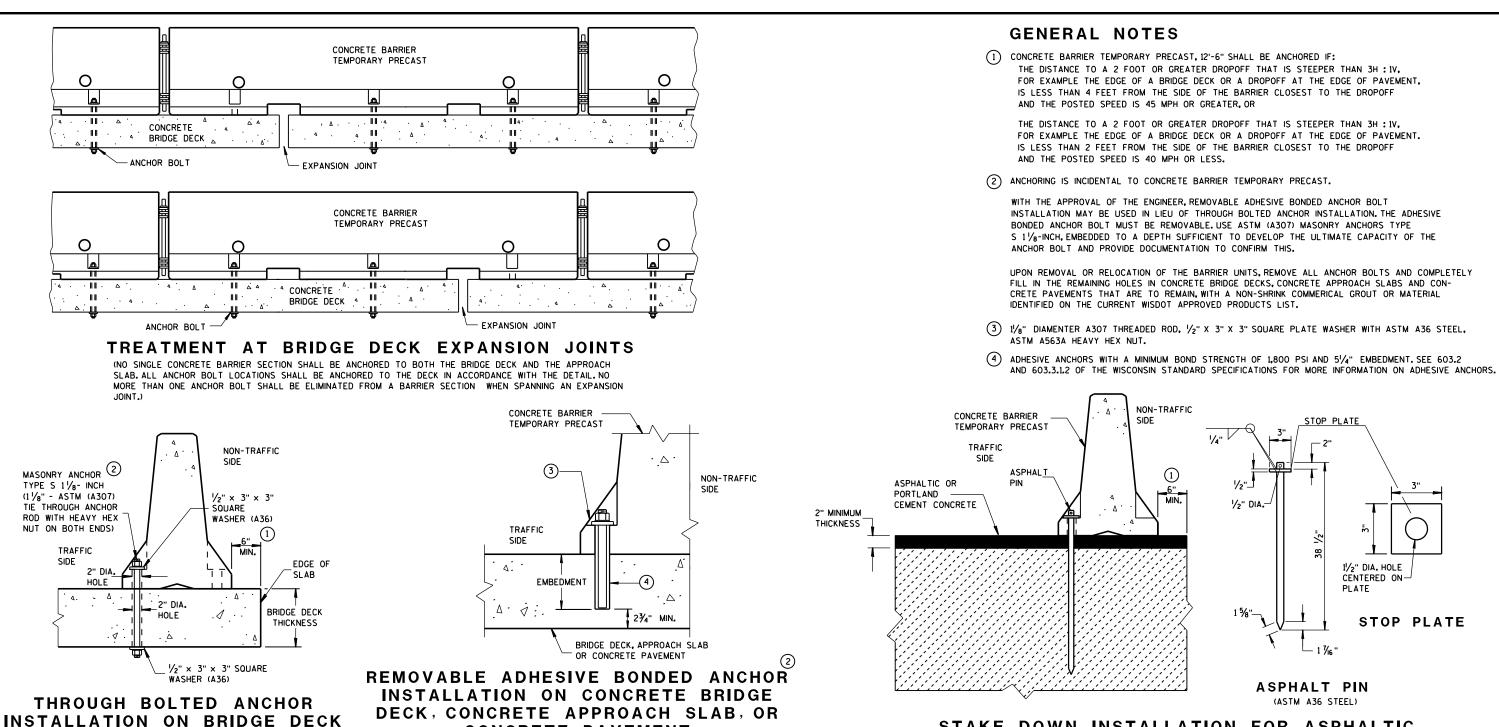


## BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

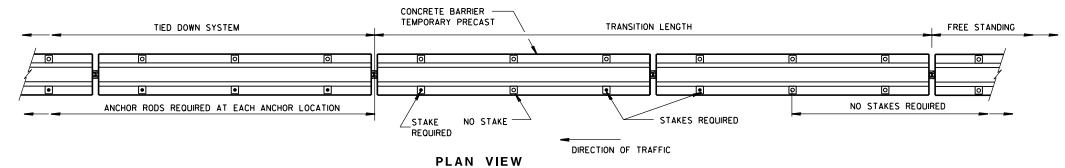
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



## STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



**CONCRETE PAVEMENT** 

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

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(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

**CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

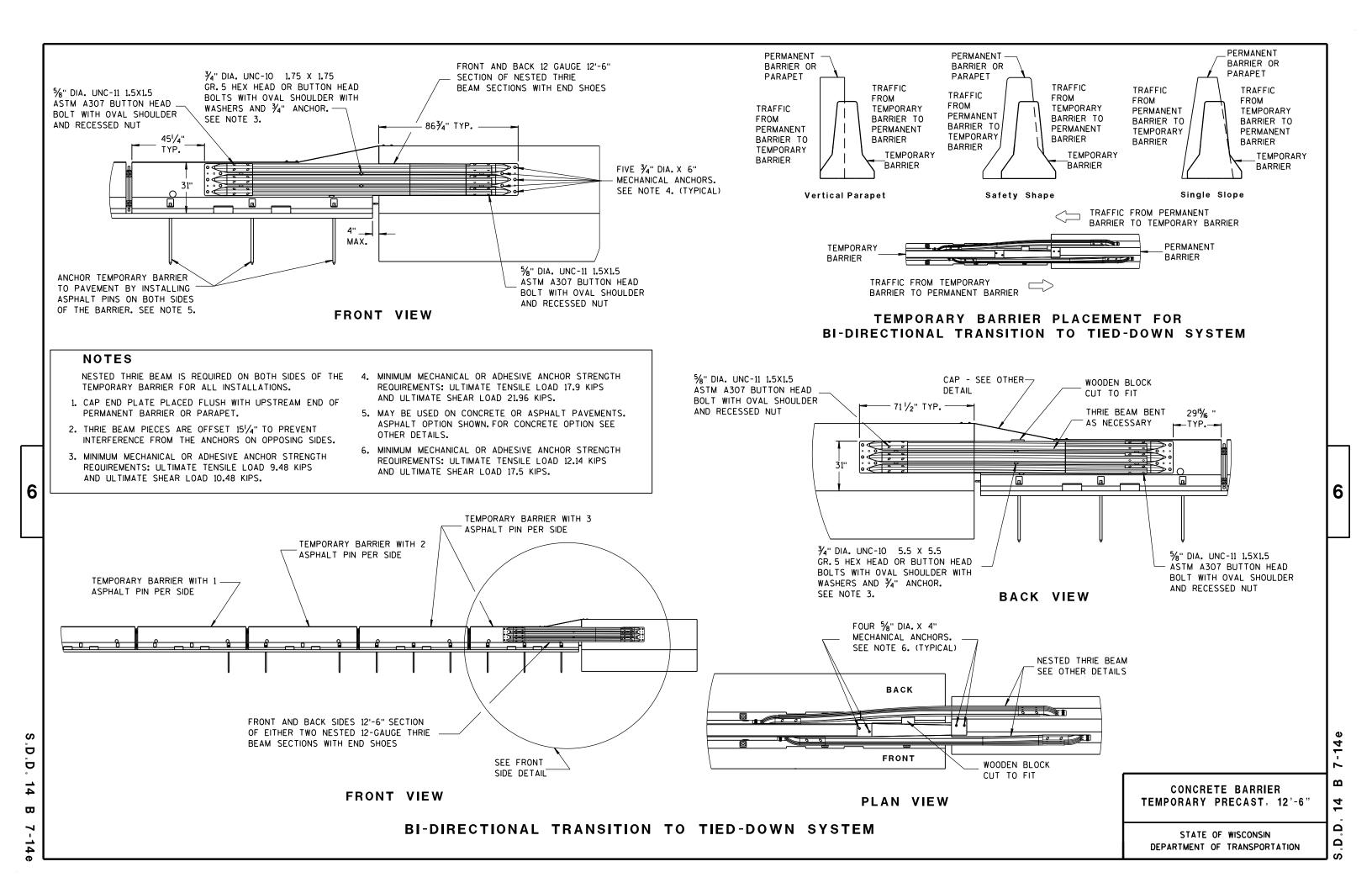
STOP PLATE

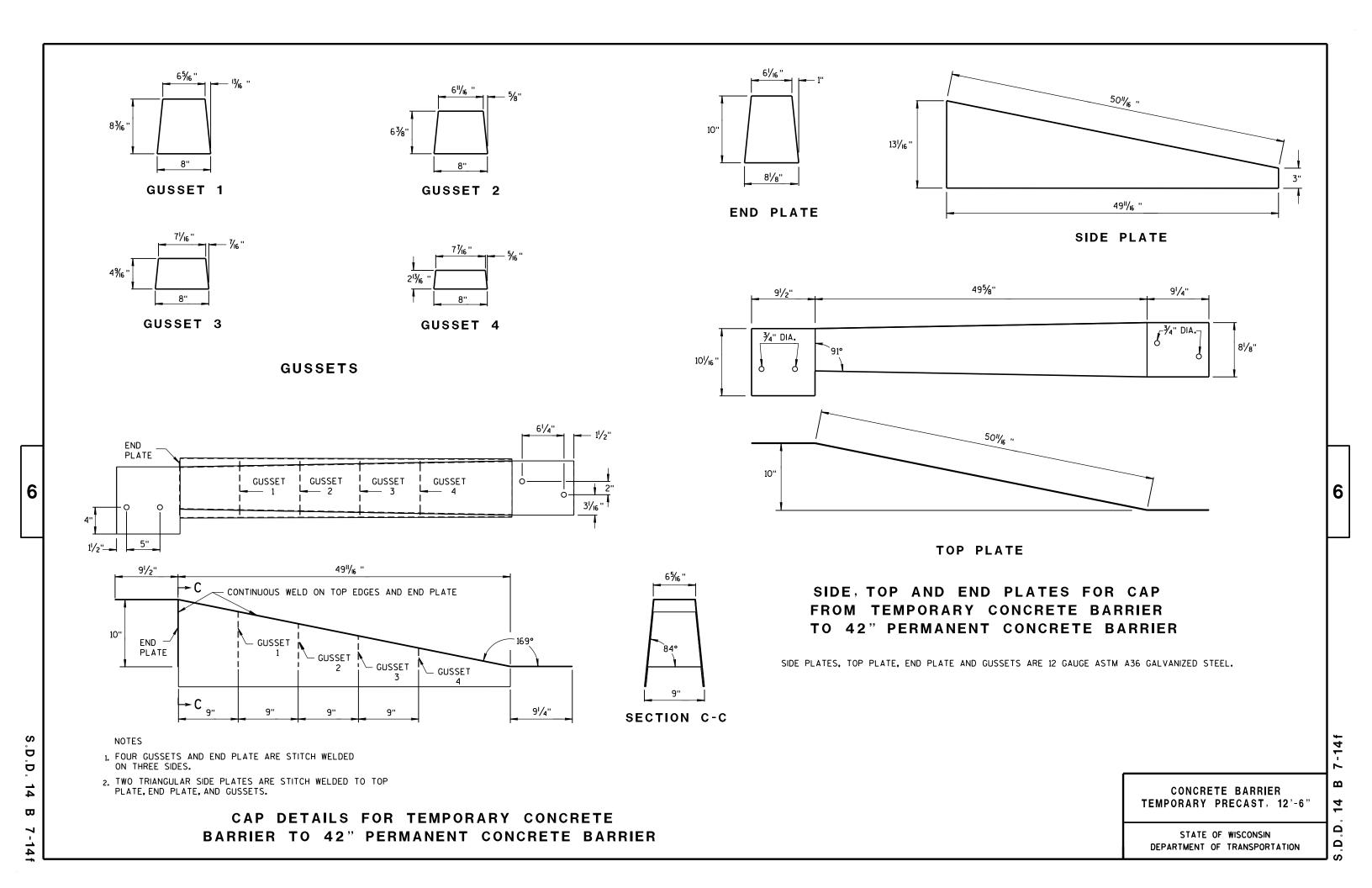
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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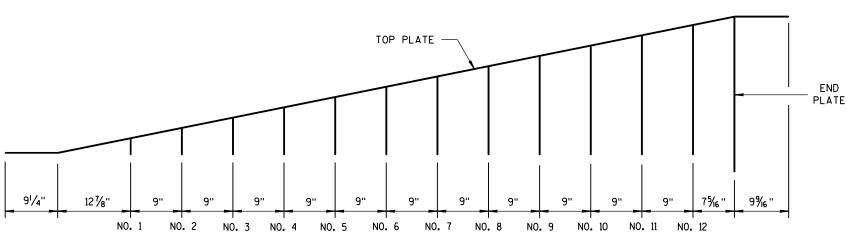
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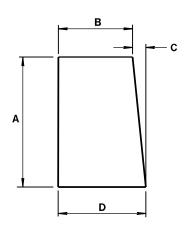
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**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS					
GUSSET No.	A	В	С	D	
1	21/8"	73/4"	1/4"	8	
2	4"/16 "	7% "	1/2"	8	
3	61/2"	73/8"	11/16 "	8½6"	
4	85%"	73/16"	<b>⅓</b> "	81/16"	
5	101/8"	7"	1 1/16 "	81/16"	
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> // <sub>6</sub> "	1 1/4"	81/16"	
7	13¾"	65/8"	1 1/6"	81/16 "	
8	15% "	6 ½ "	1 % "	81/16"	
9	173/8"	61/4"	1 13/16 "	81/16"	
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16 "	
11	21"	5 1/8"	23/6"	8½ <sub>6</sub> "	
12	22 <sup>13</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	25/6"	8½ <sub>6</sub> "	

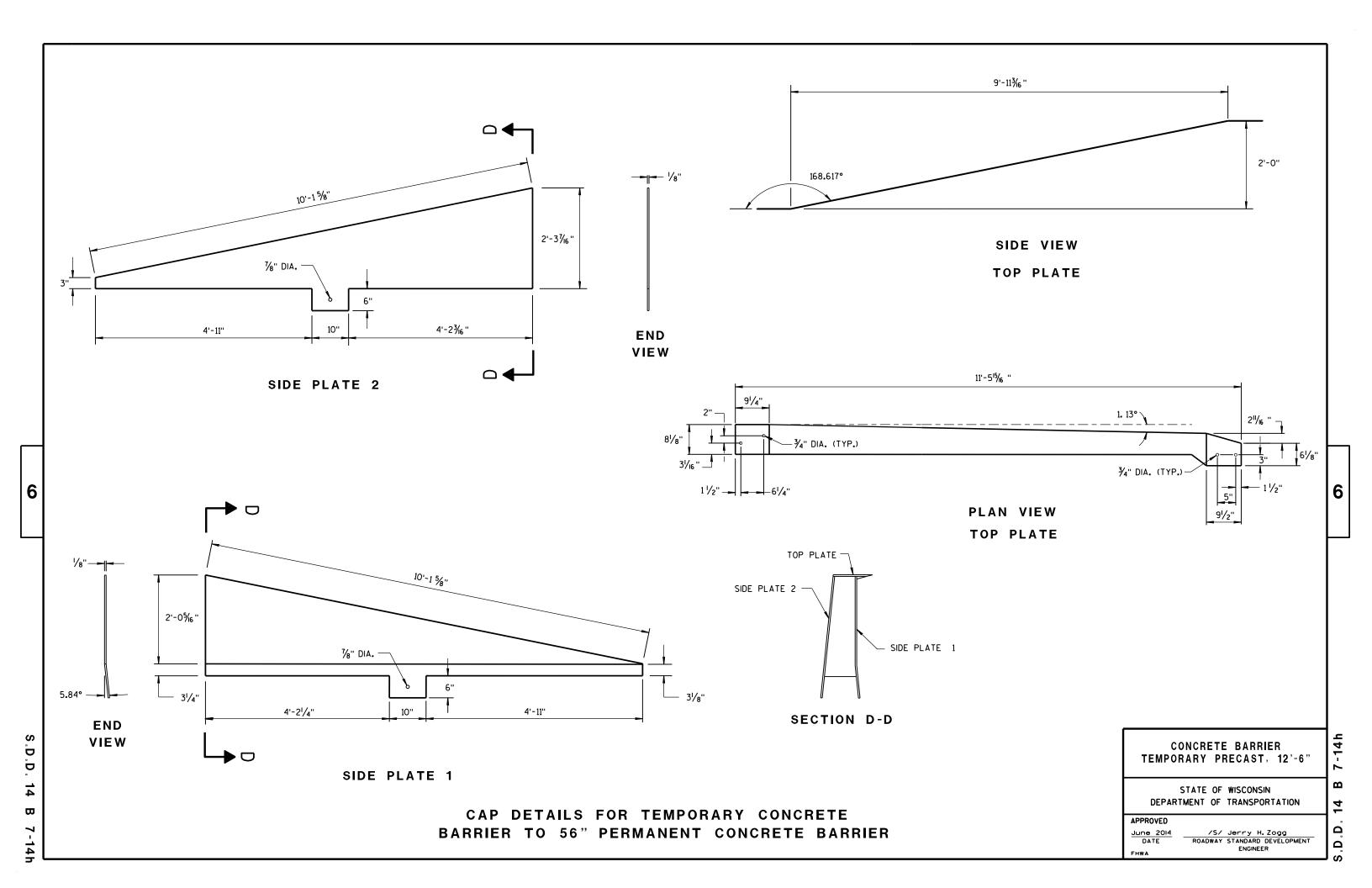
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

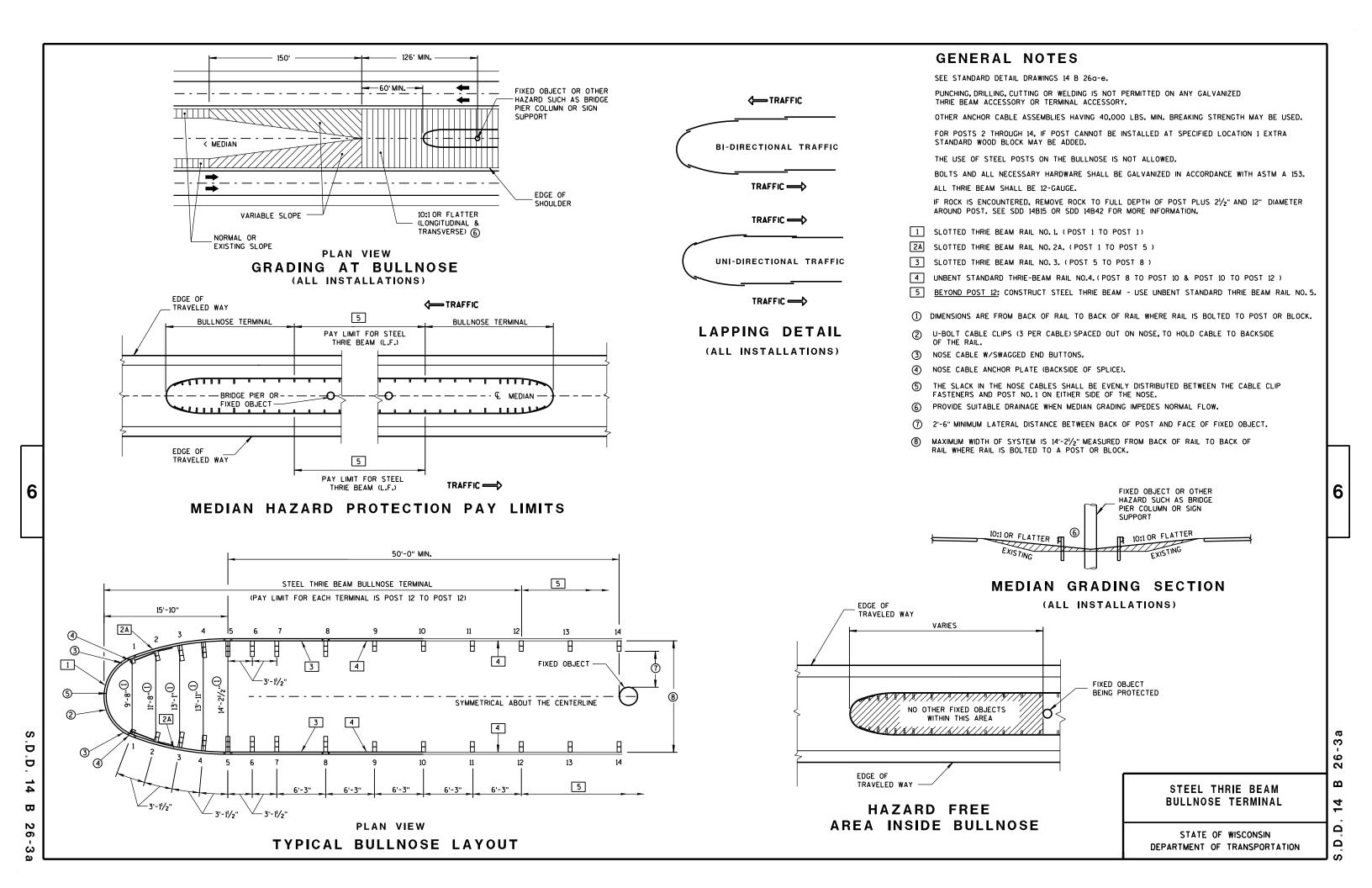
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

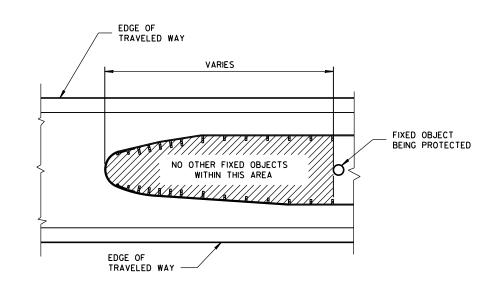
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

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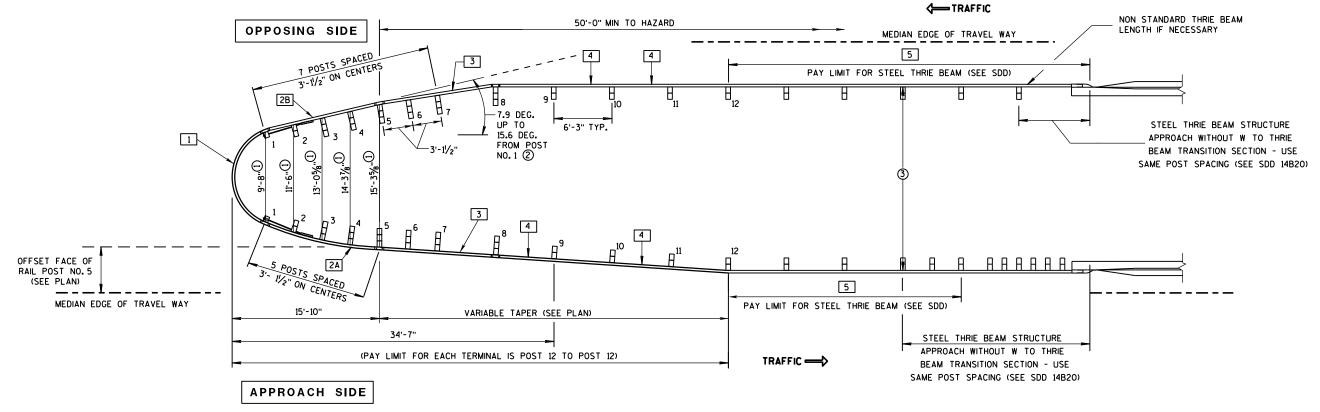


HAZARD FREE AREA INSIDE BULLNOSE

SEE STANDARD DETAIL DRAWINGS 14 B 26d-e.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

- 1 SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)
- 2A SLOTTED THRIE BEAM RAIL NO. 2A, (POST 1 TO POST 5)
- 2B SLOTTED THRIE BEAM RAIL NO. 2B. ( POST 1 TO POST 5 )
- 3 SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)
- 4 UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)
- BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- ① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST.
- TAPER BEGINNING AT POST NO.1 MUST CONTINUE TO POST NO.5. PAST POST NO.5 TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS. (SEE PLAN)
- FOR MEDIANS WIDER THAN 14'-21/2" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



PLAN VIEW

## WIDENED BULLNOSE DESIGN

(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN )

STEEL THRIE BEAM BULLNOSE TERMINAL

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S.D.D. 14 B 26-3

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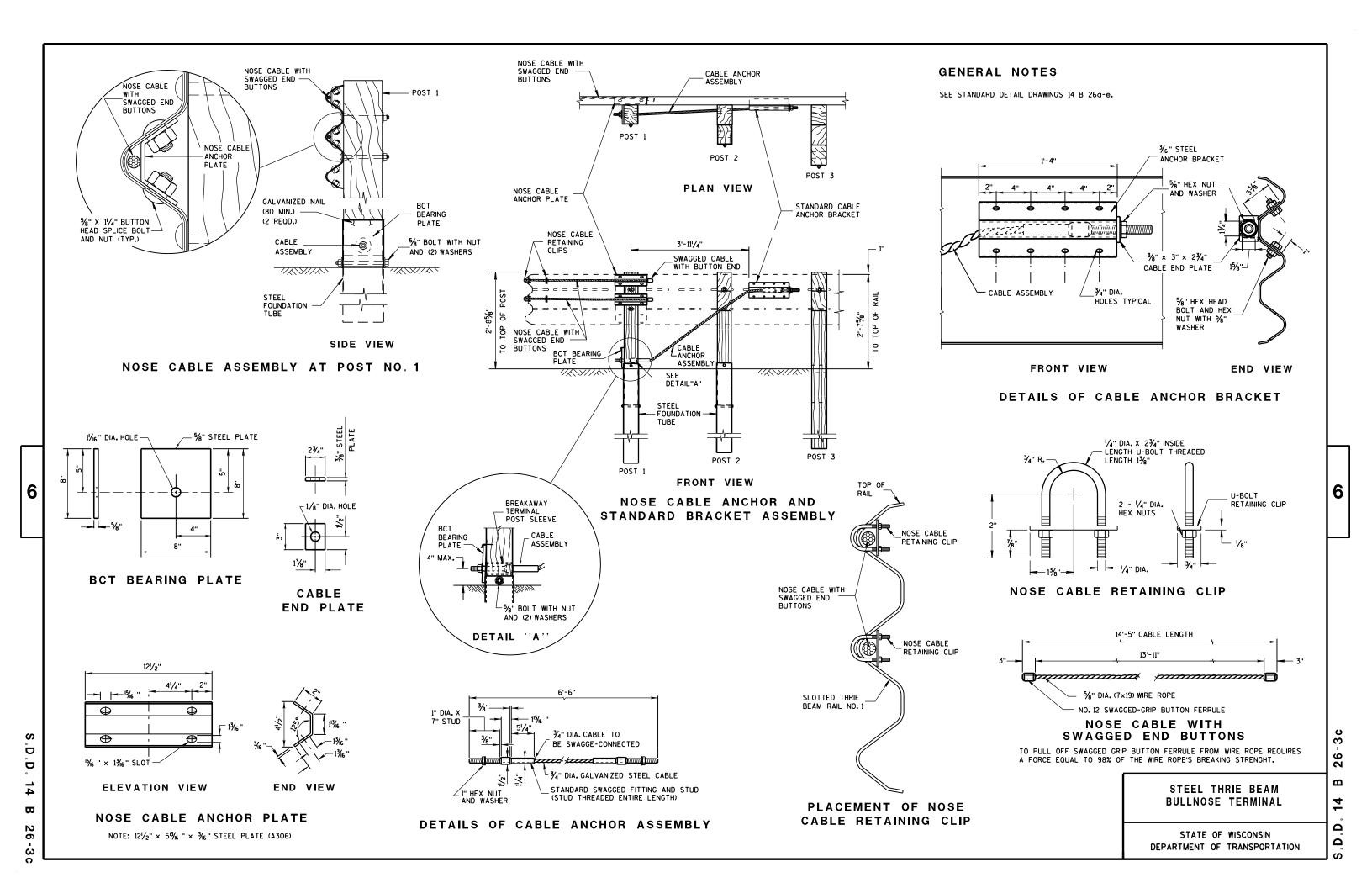
3.D.D. 14

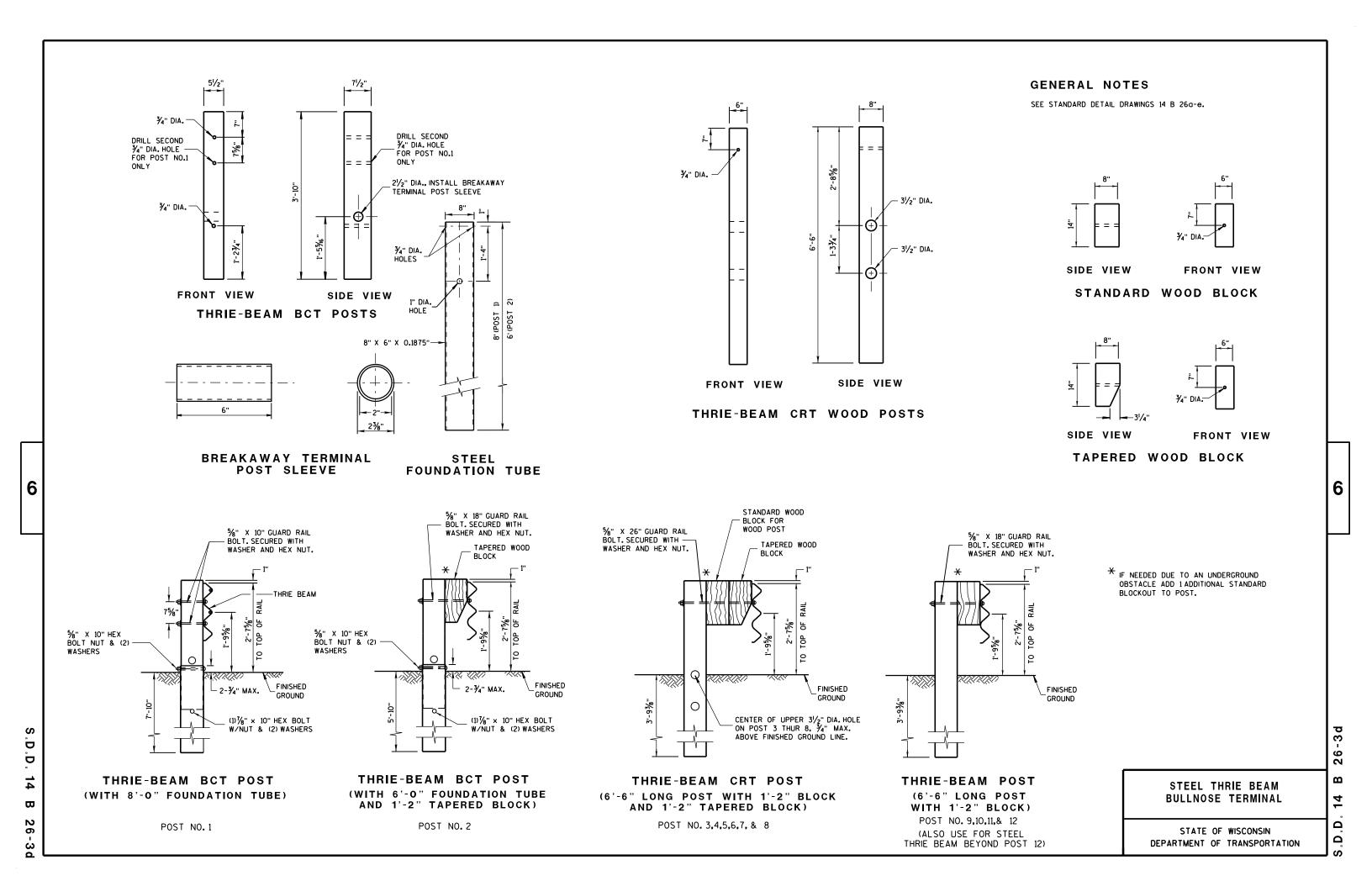
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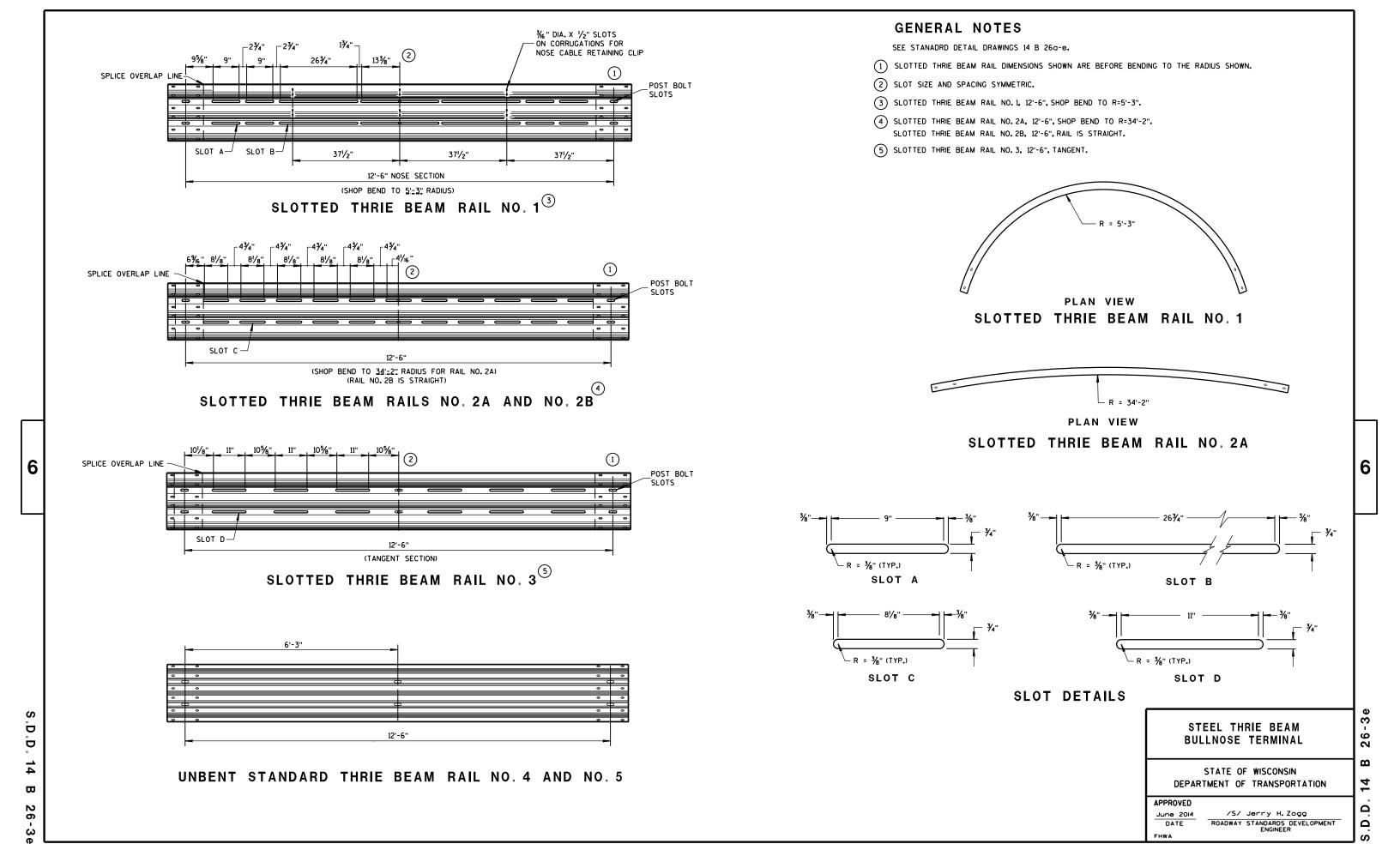
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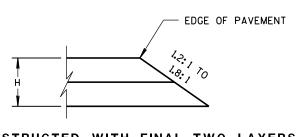
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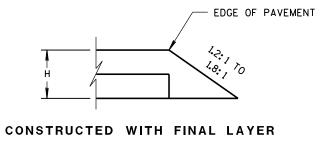
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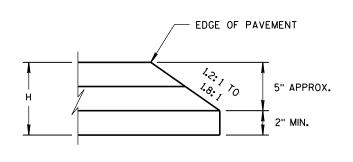


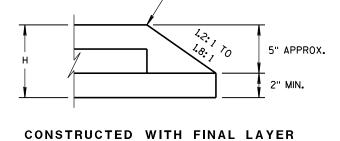


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





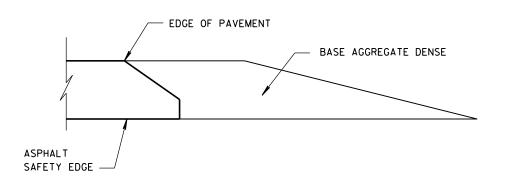
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

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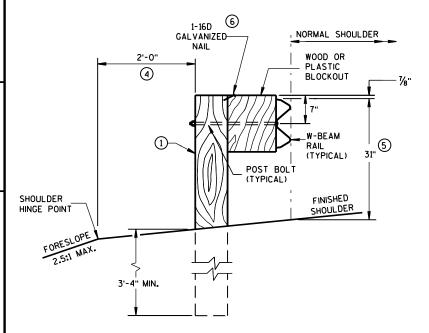
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APPROVED

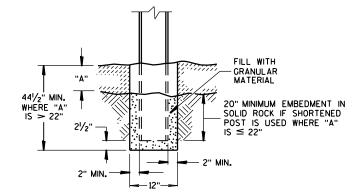
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

- (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 21/2 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 273/4" 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.

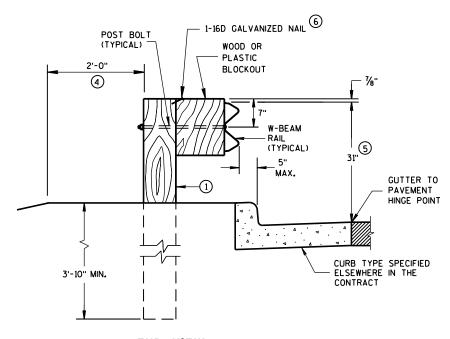


**END VIEW** 

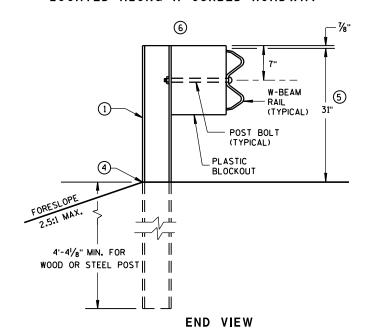
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



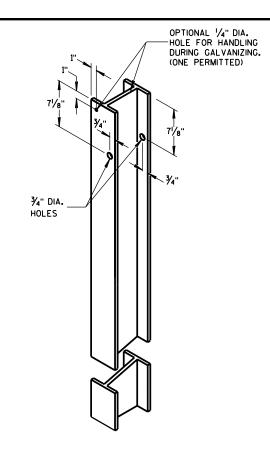
SETTING STEEL OR WOOD POST IN ROCK  $^{\scriptsize{\textcircled{3}}}$ 



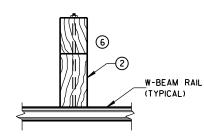
END VIEW
LOCATED ALONG A CURBED ROADWAY



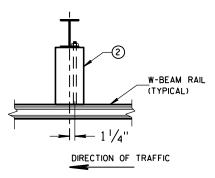
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



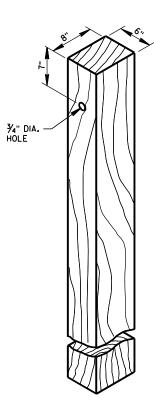
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL  $^{\scriptsize \textcircled{1}}$ 



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

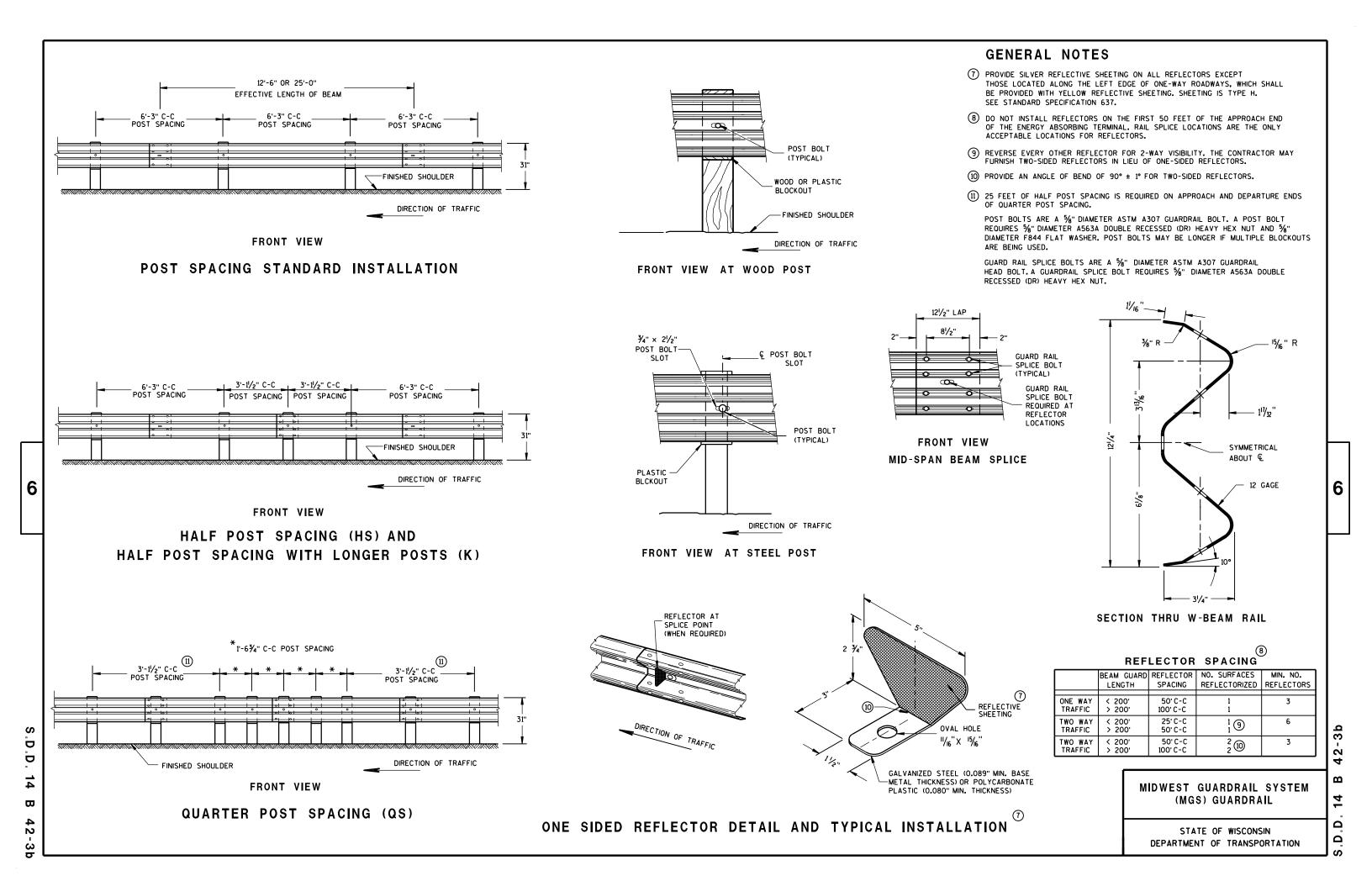
S.D.D. 14 B 4

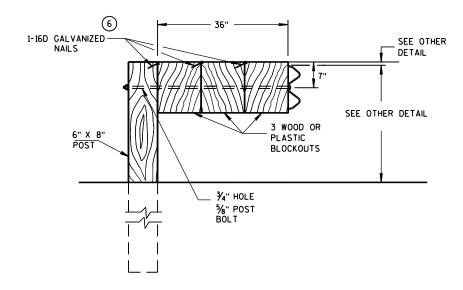
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.D.D. 14 B

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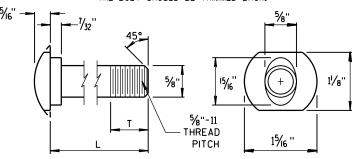


## DETAIL FOR 36" BLOCKOUT DEPTH

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.

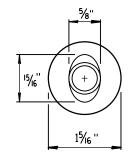
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

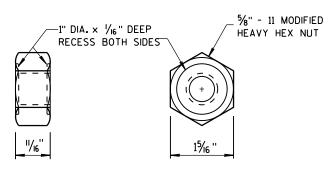


## POST BOLT TABLE

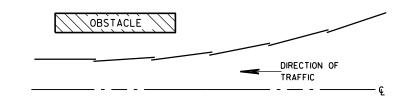
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

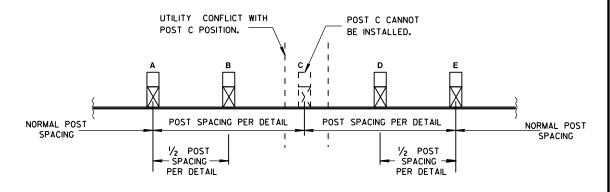


POST BOLT AND RECESS NUT

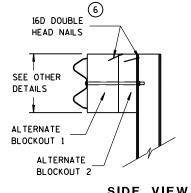


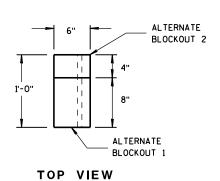
## **PLAN VIEW**

## **BEAM LAPPING DETAIL**



## POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

## ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

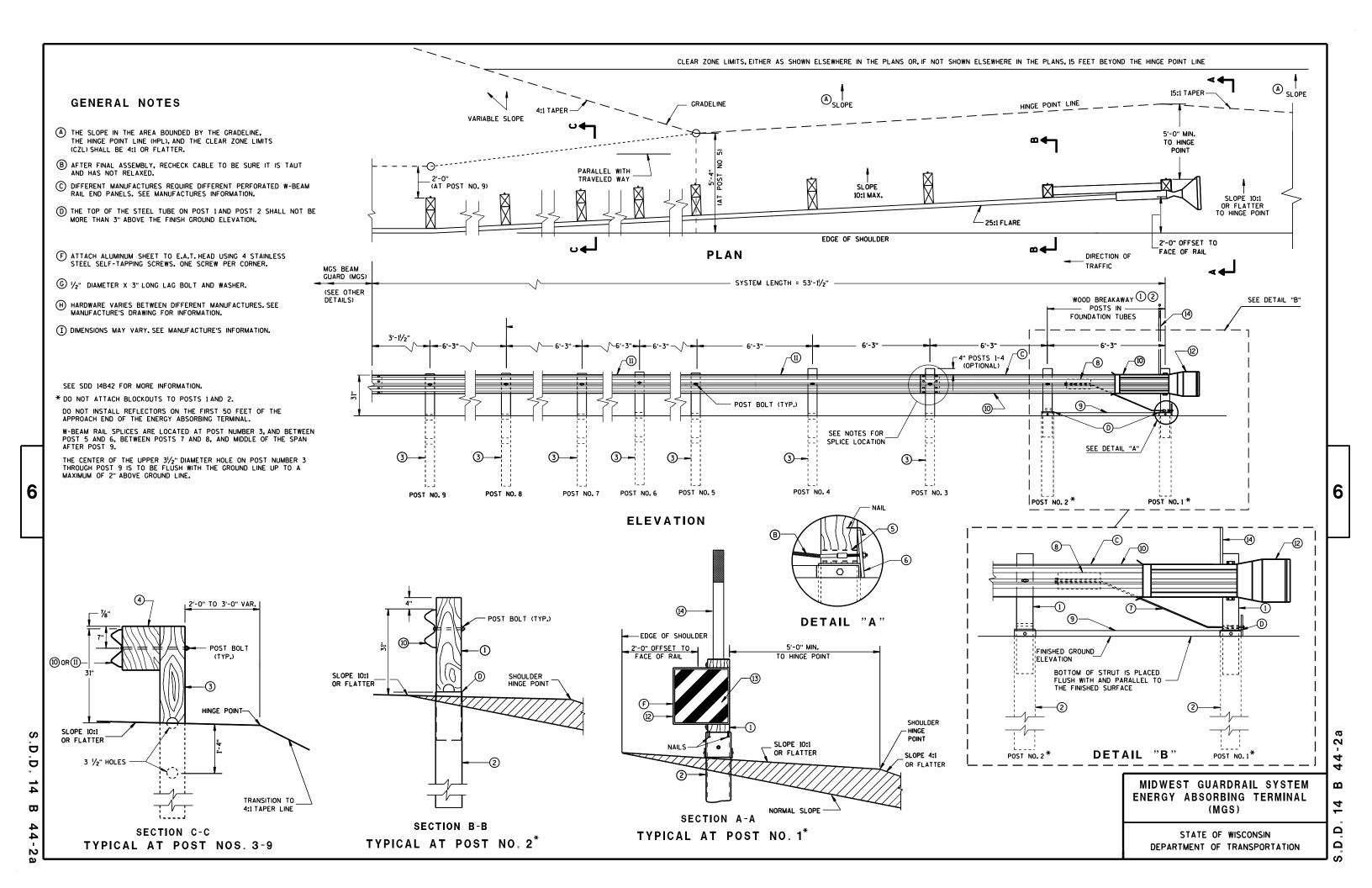
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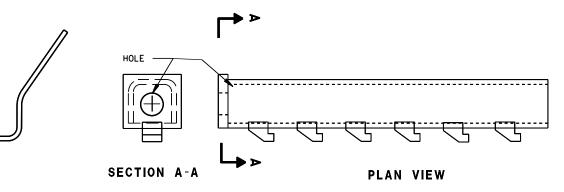
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S.D.D.

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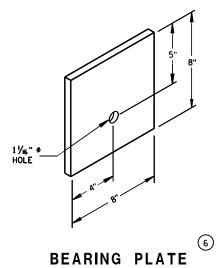


9 H

GENERIC ANCHOR CABLE BOX

## BILL OF MATERIALS

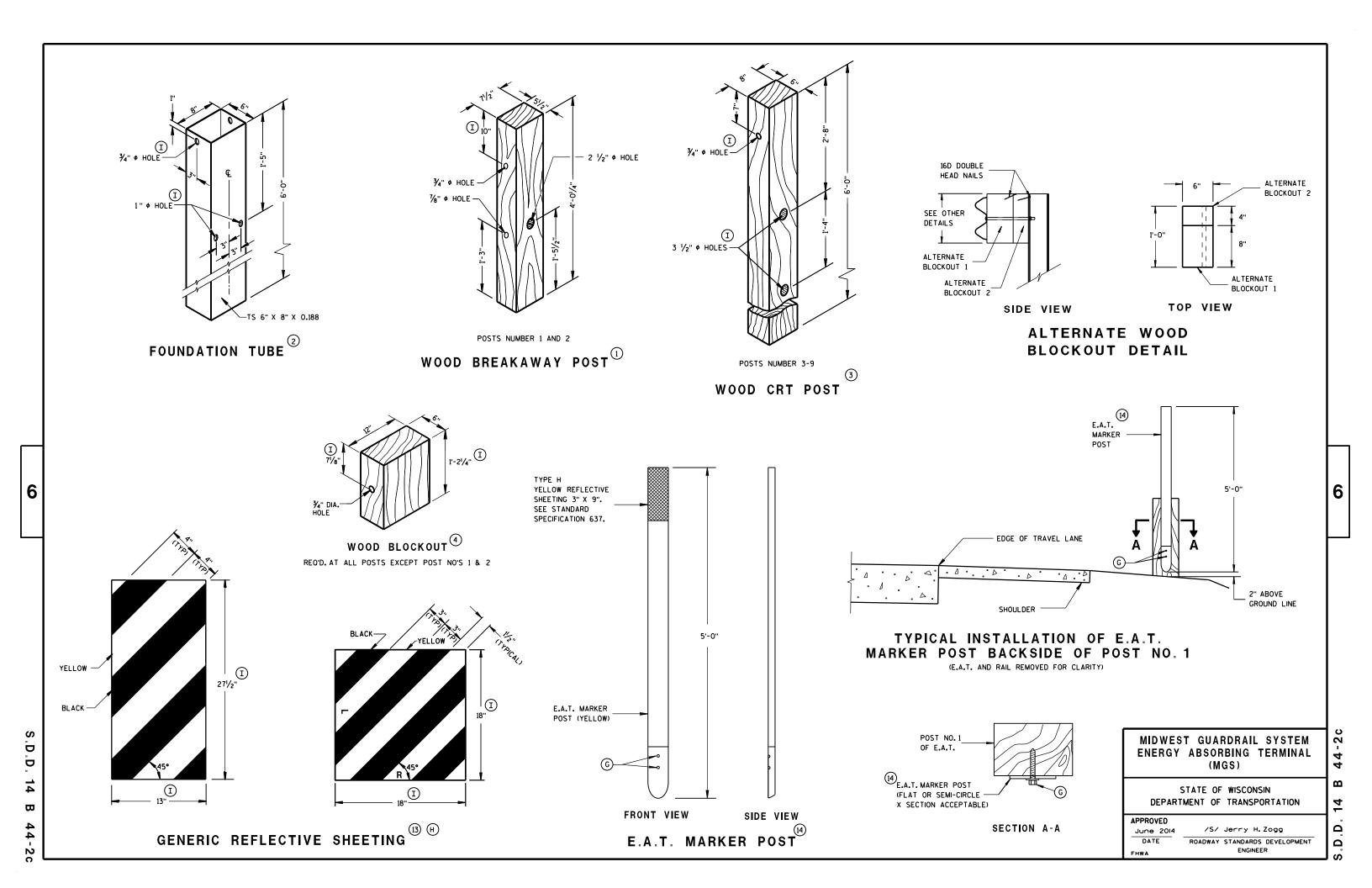
PART NO.	DESCRIPTION  MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.					
1	WOOD BREAKAWAY POST					
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2					
3	WOOD CRT					
4	WOOD BLOCKOUT					
(5)	PIPE SLEEVE					
6	BEARING PLATE					
7	BCT 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)					

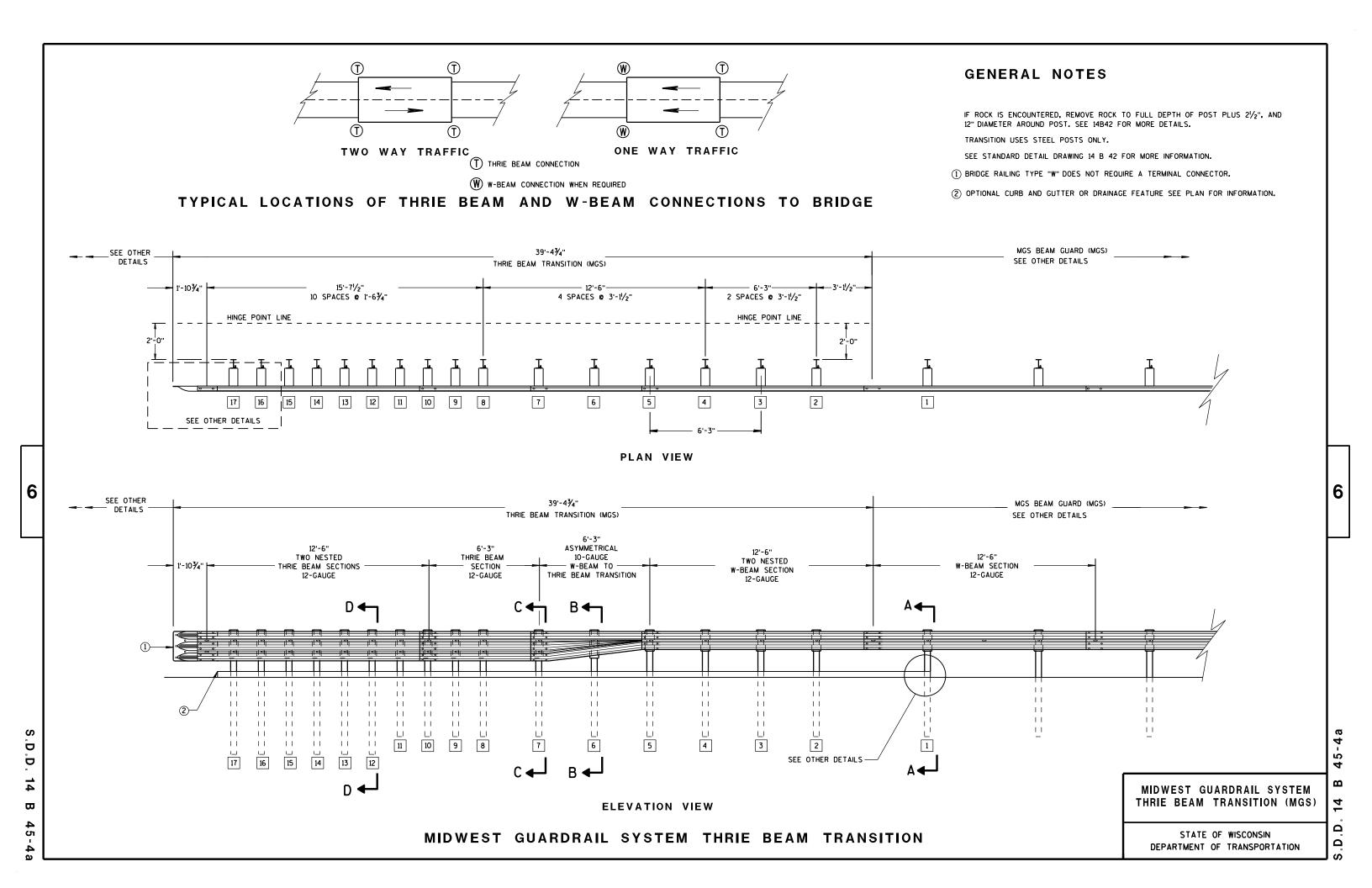


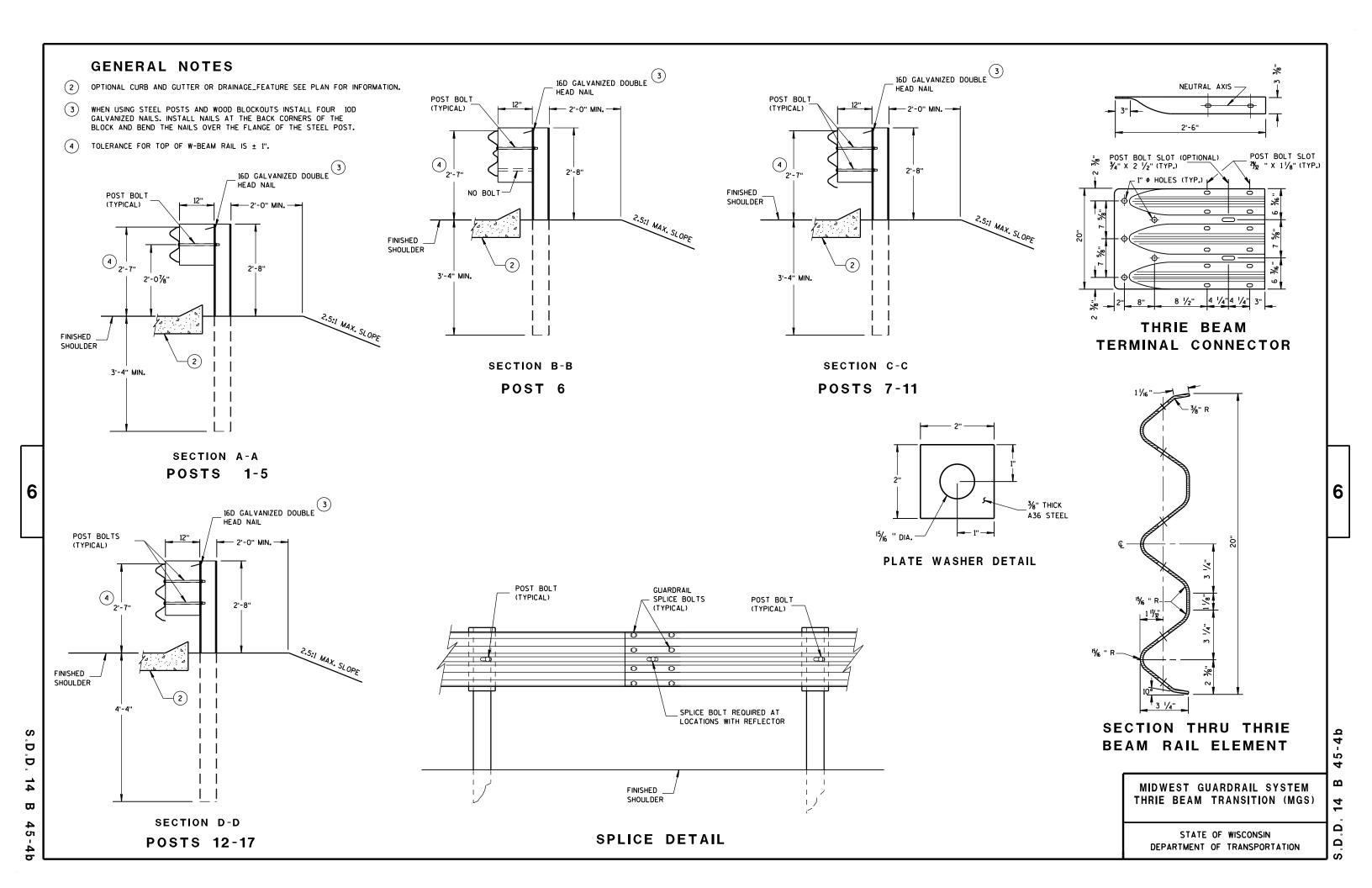
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

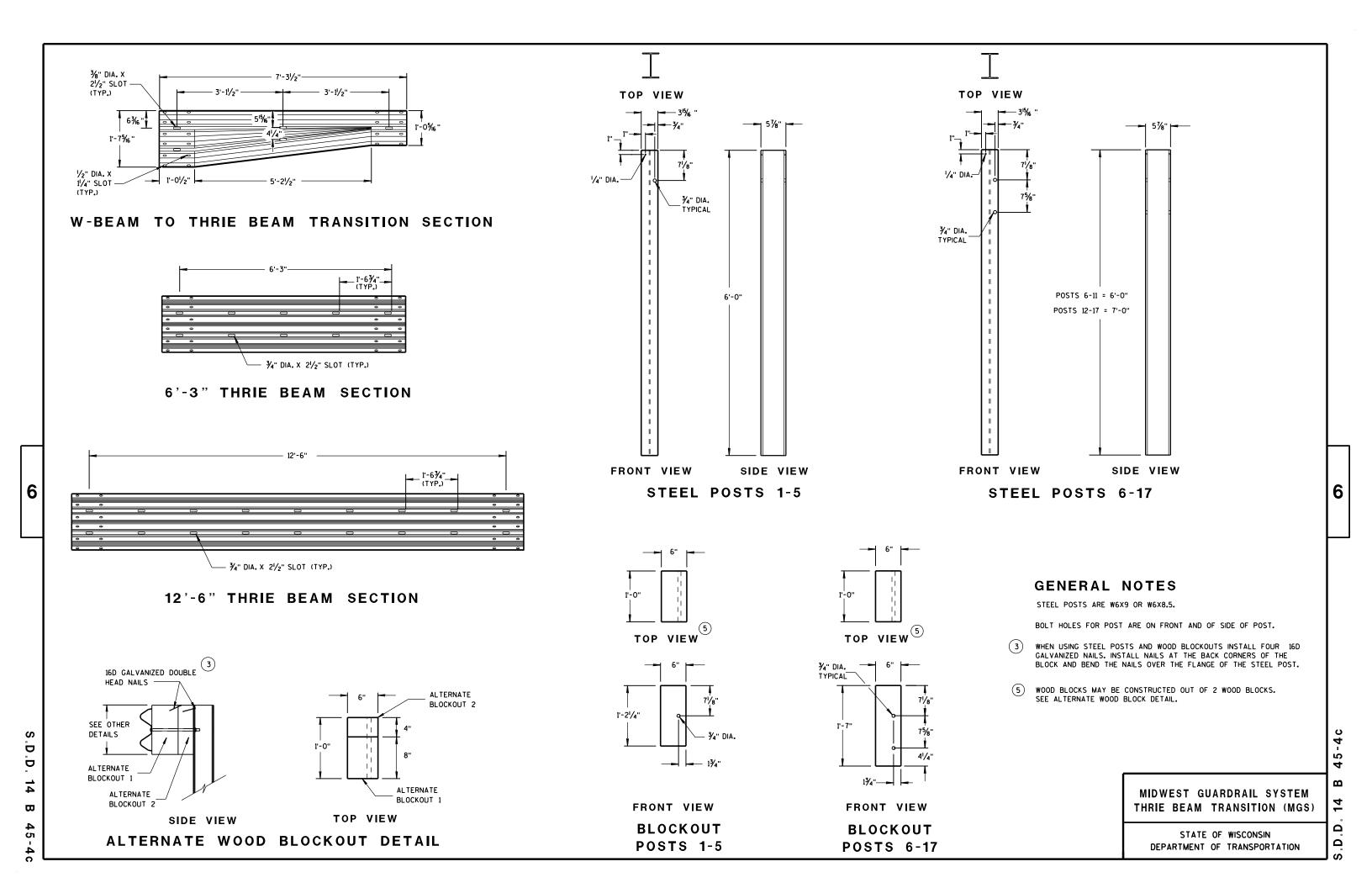
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

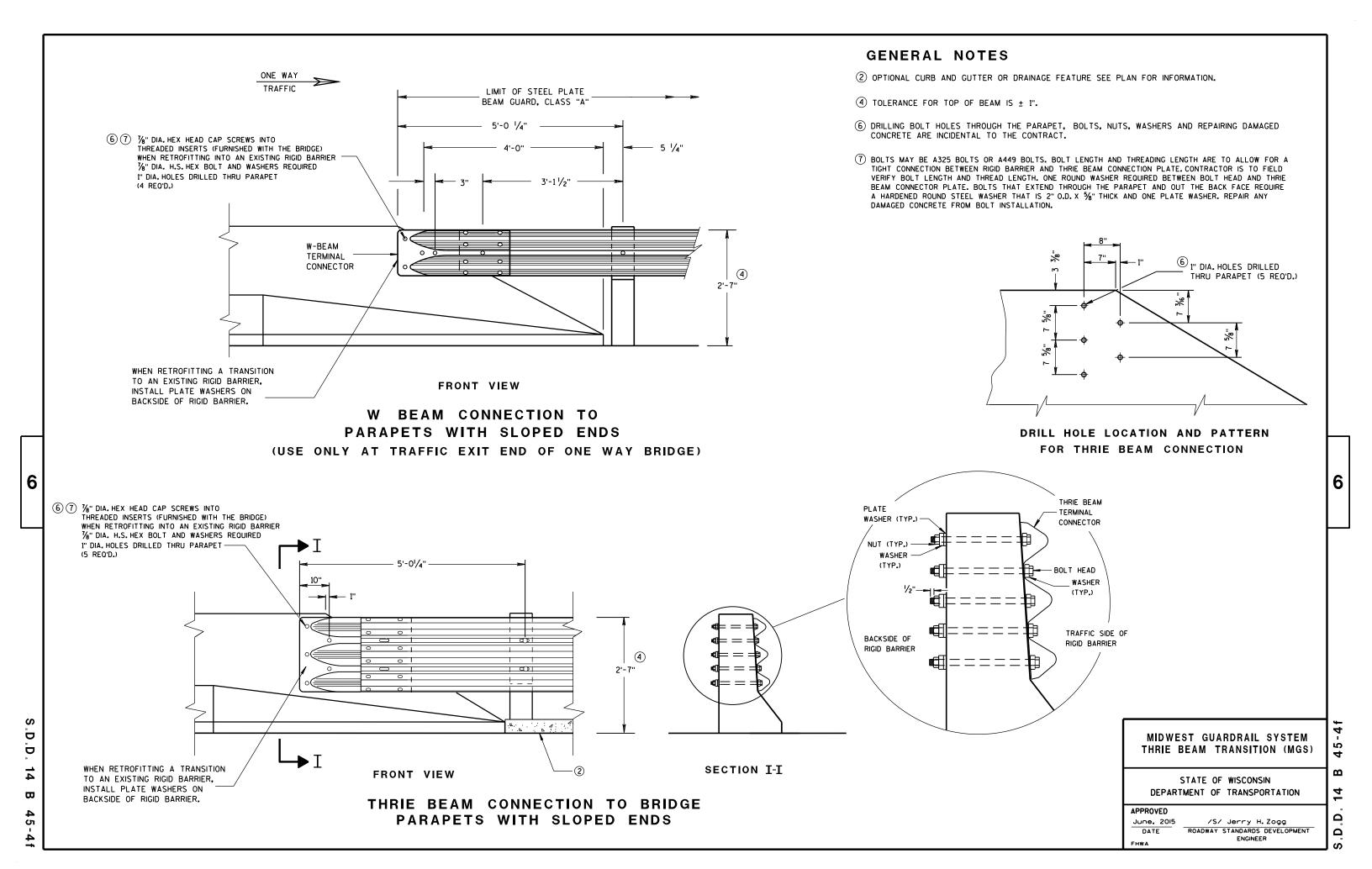
44-2b  $\mathbf{\omega}$ 14 ٠٠ ت

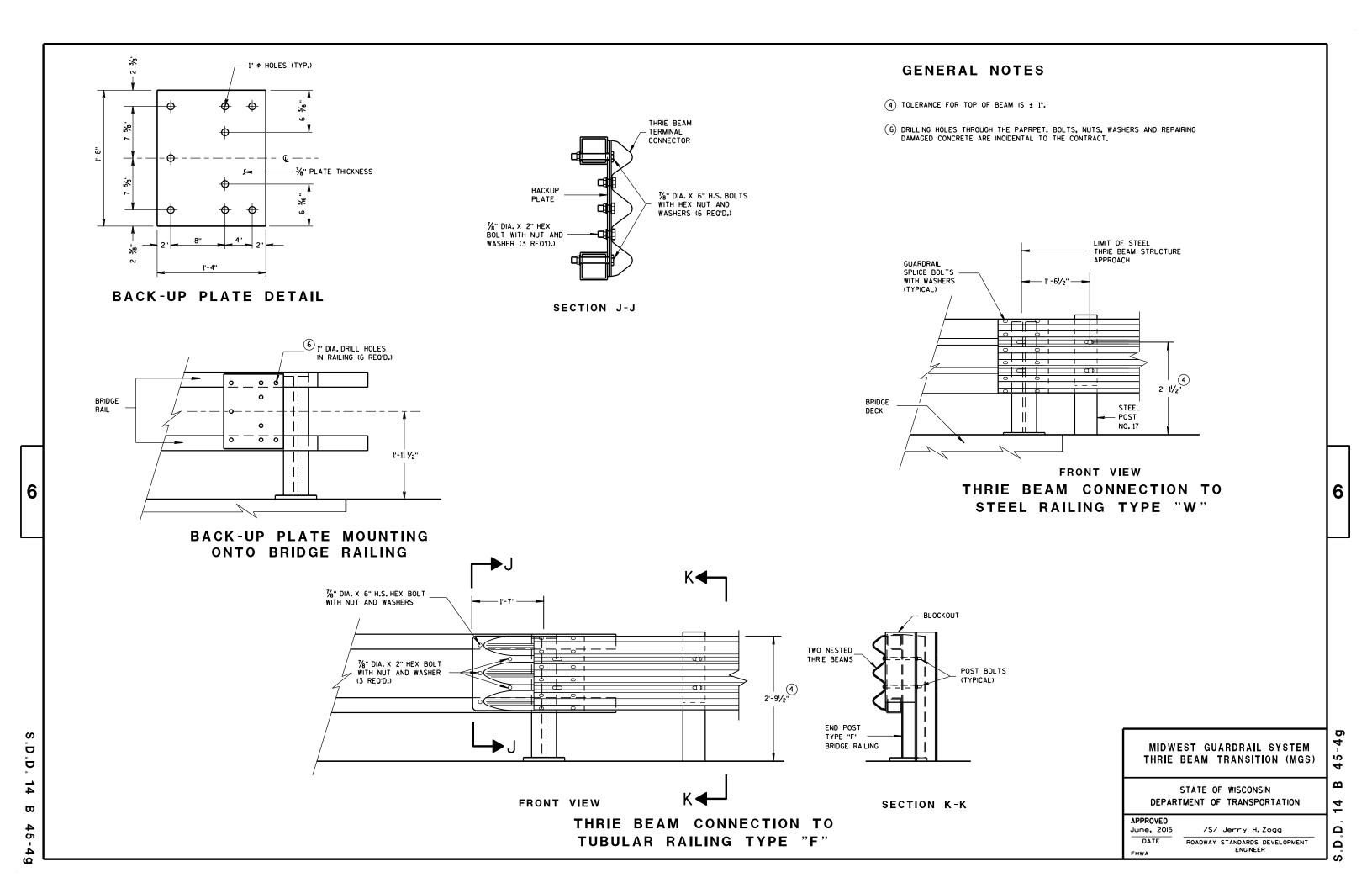


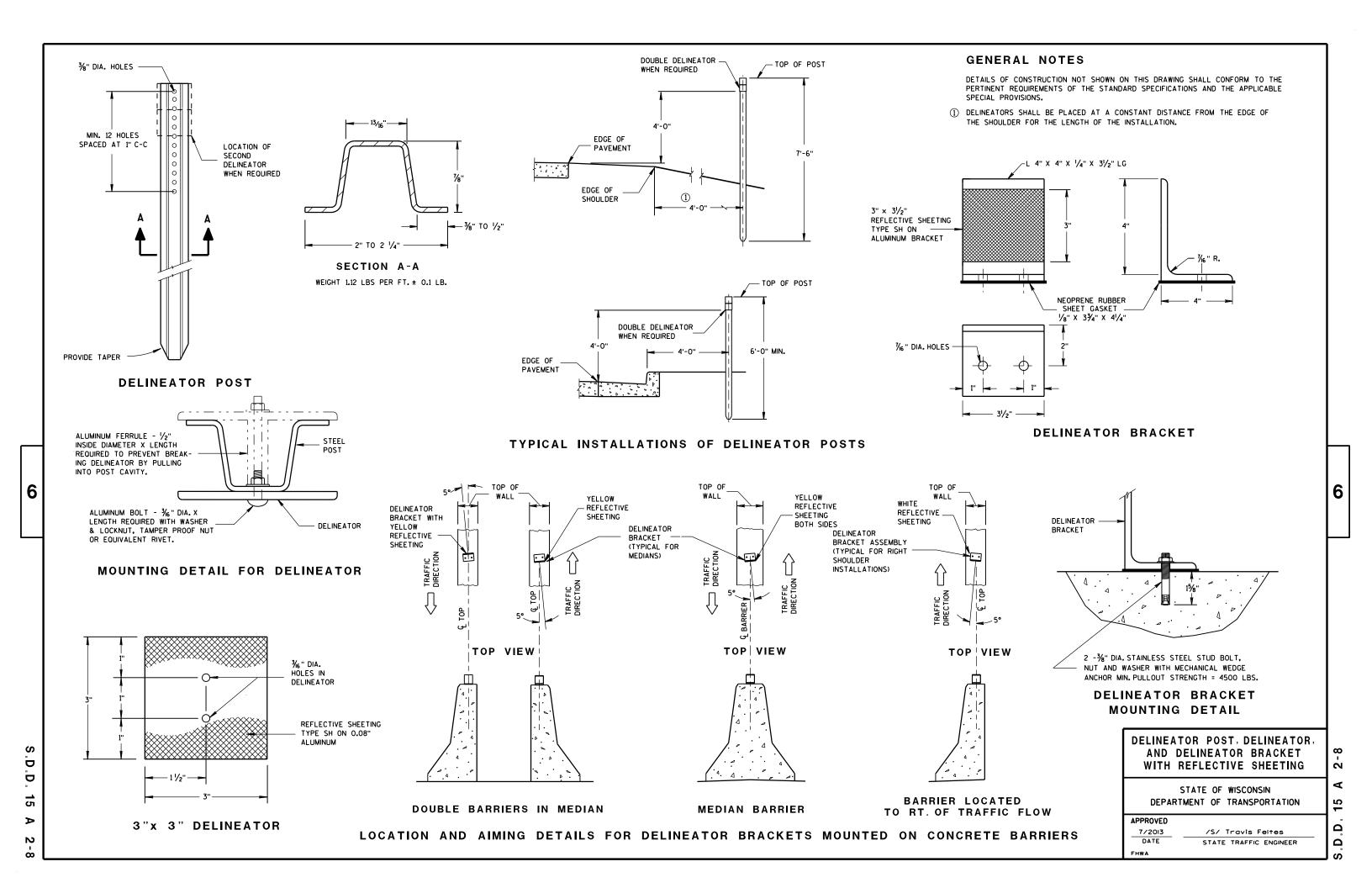
















### TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

### **GENERAL NOTES**

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

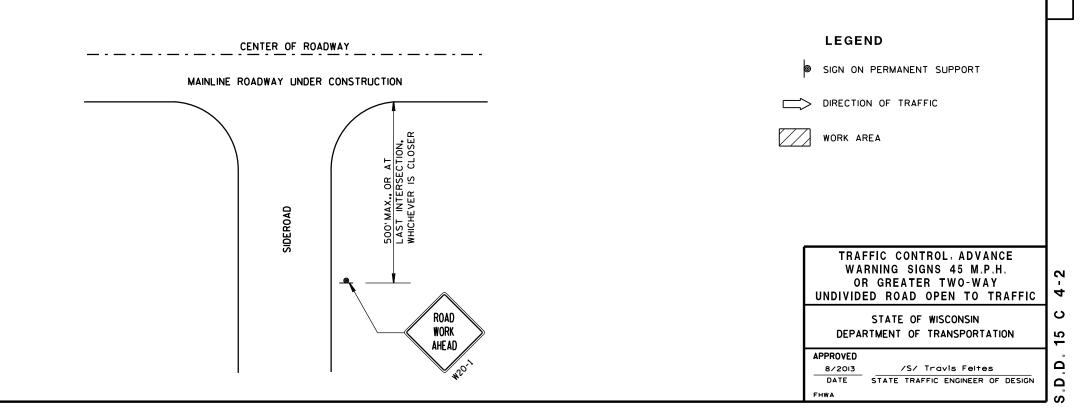
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

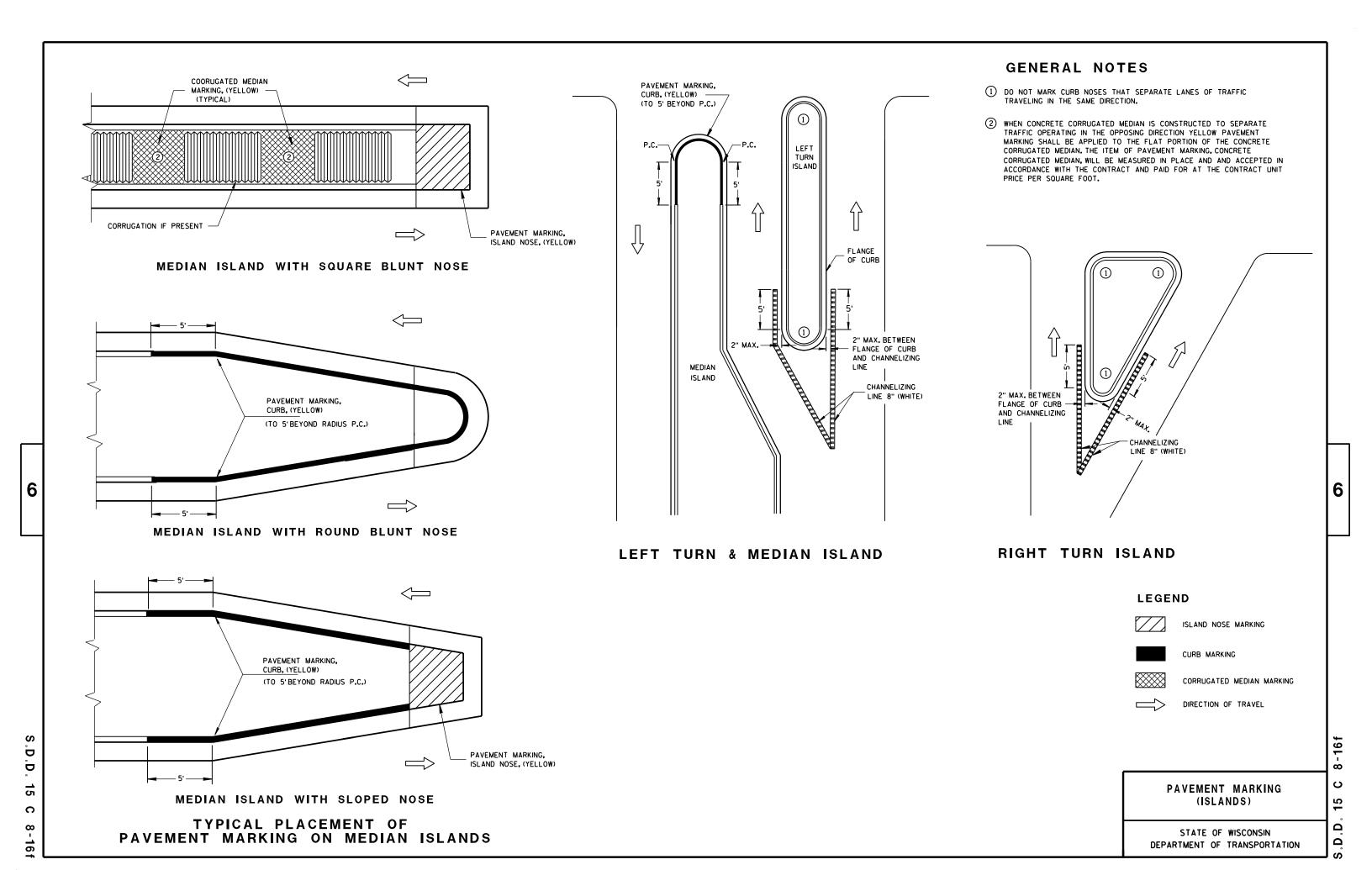
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.





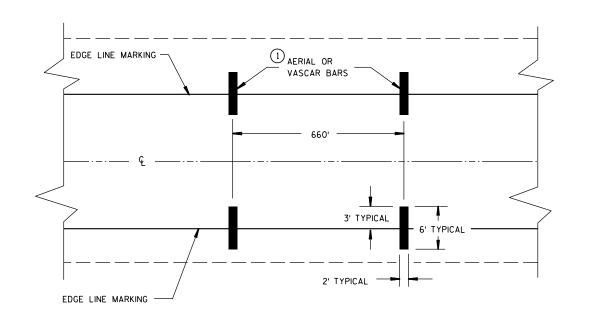


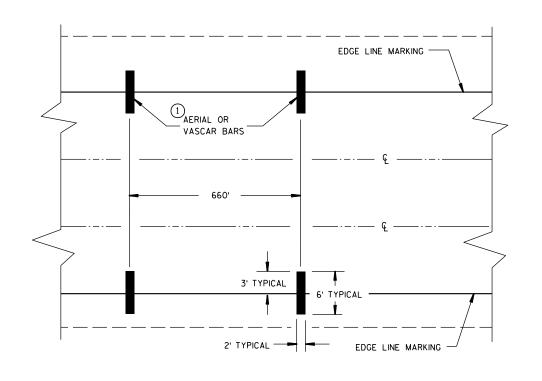




1) NUMBER OF VASCAR OR AERIAL BARS SHALL BE A MINIMUM OF 2 OR A MAXIMUM OF 5 AT 660' SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.





TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC

TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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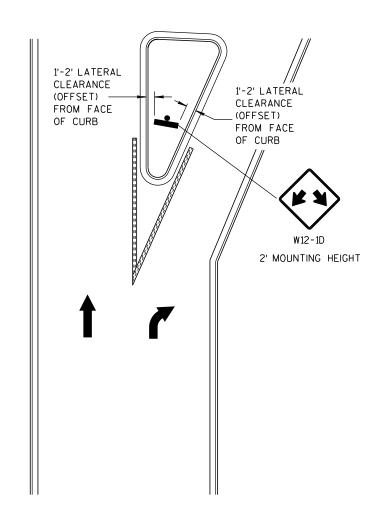
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APPROVED

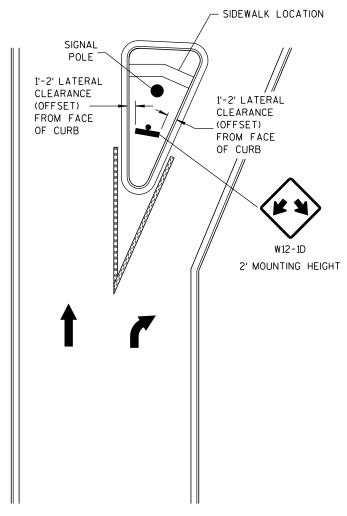
4/23/01 /S/ Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

Δ

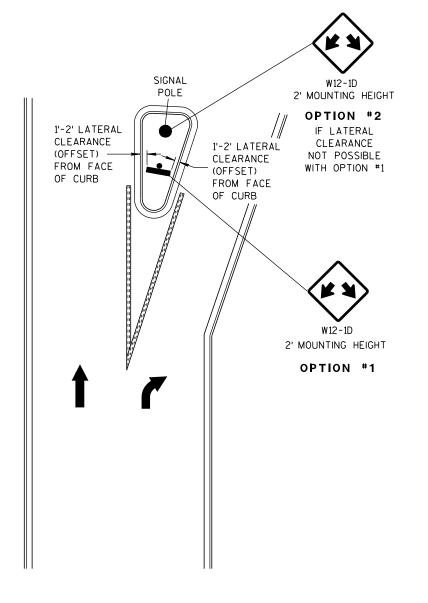
S.D.D. 15 C 14-1



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT

27

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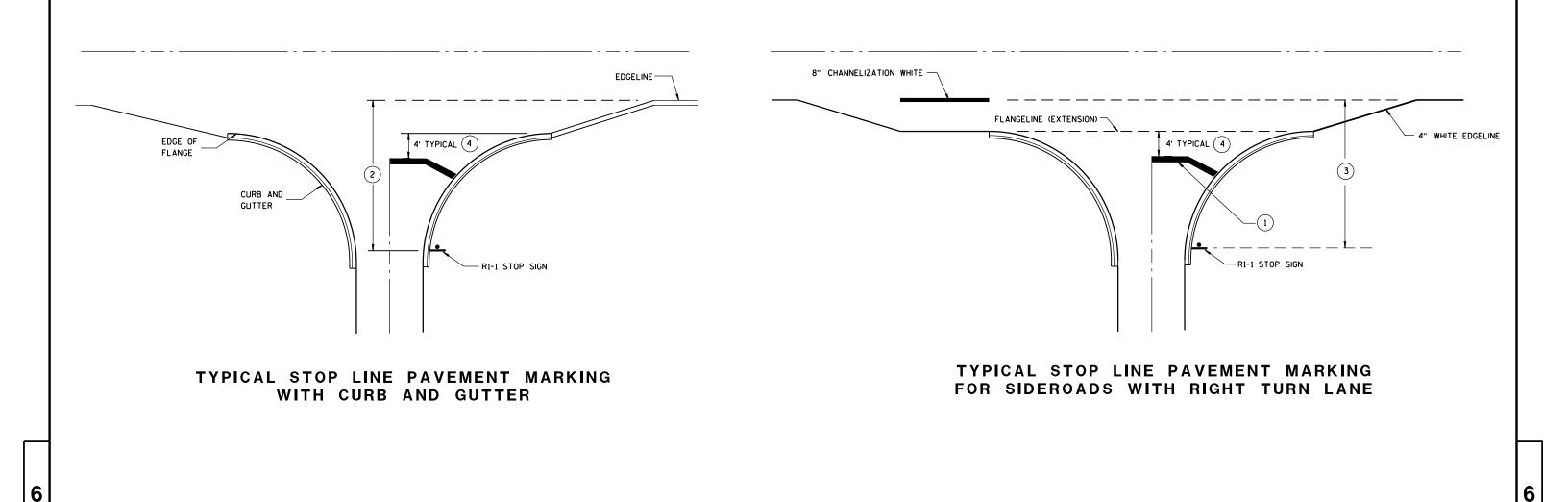
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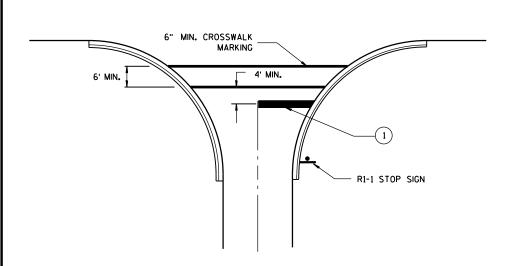
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

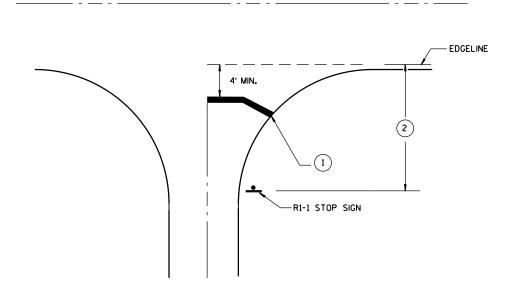
/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN 10-22-08

Ū b C





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.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

### STOP LINE AND CROSSWALK PAVEMENT MARKING

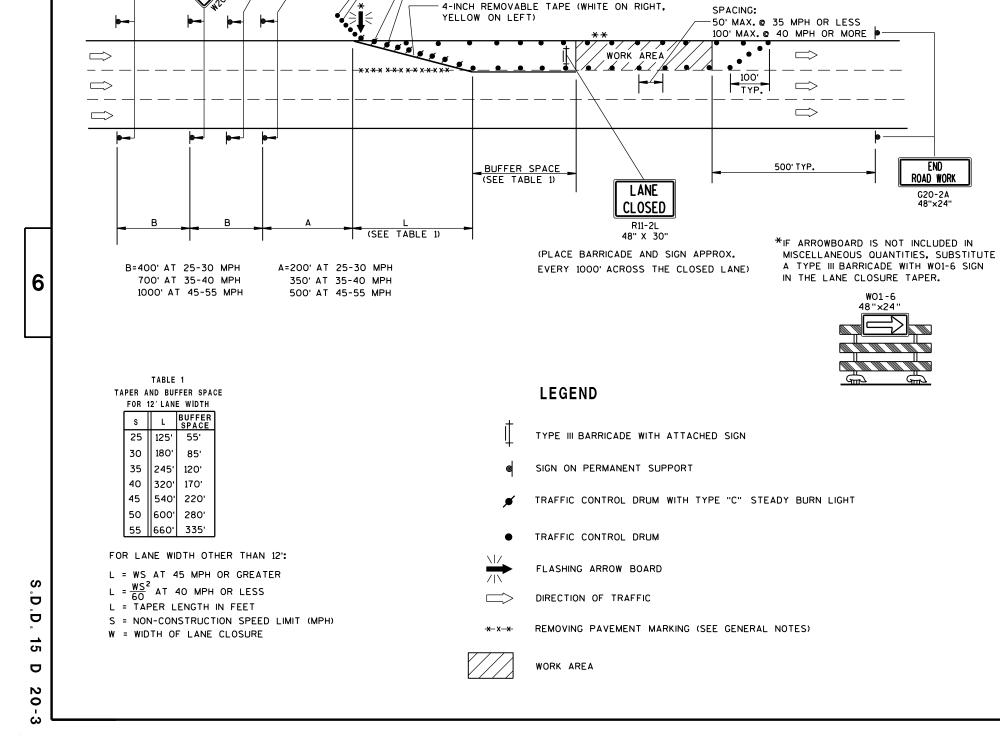
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25'@ 35 MPH OR LESS

50'@ 40 MPH OR MORE

TEMPORARY PAVEMENT MARKING.

SPACING:

ROAD WORK

NEXT\_\_\_MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

### **GENERAL NOTES**

\*\*THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC, IN ADVANCE OF THE WORK AREA.

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"×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, 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.

W2O-1, G2O-1 AND G2O-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.

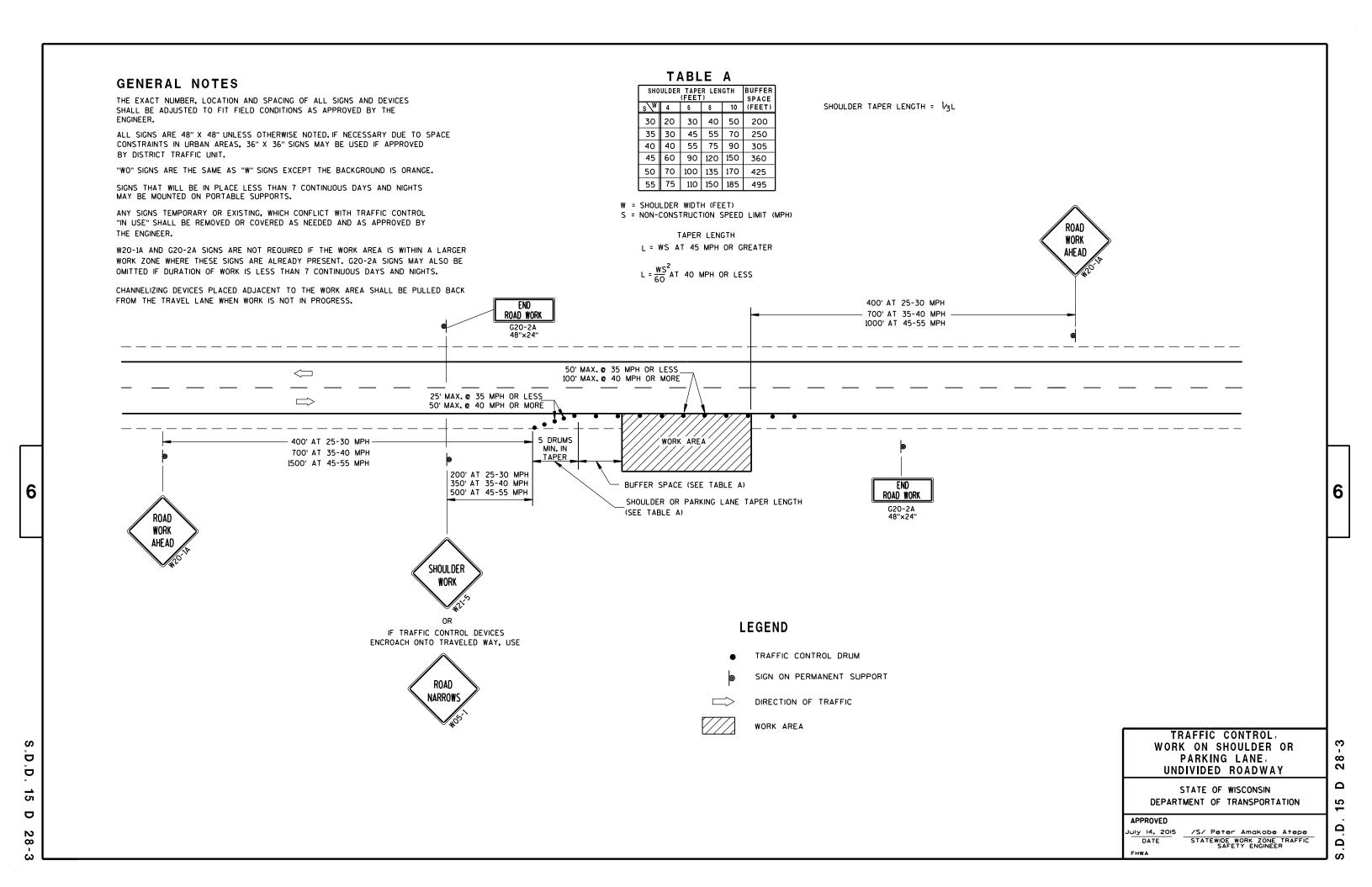
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

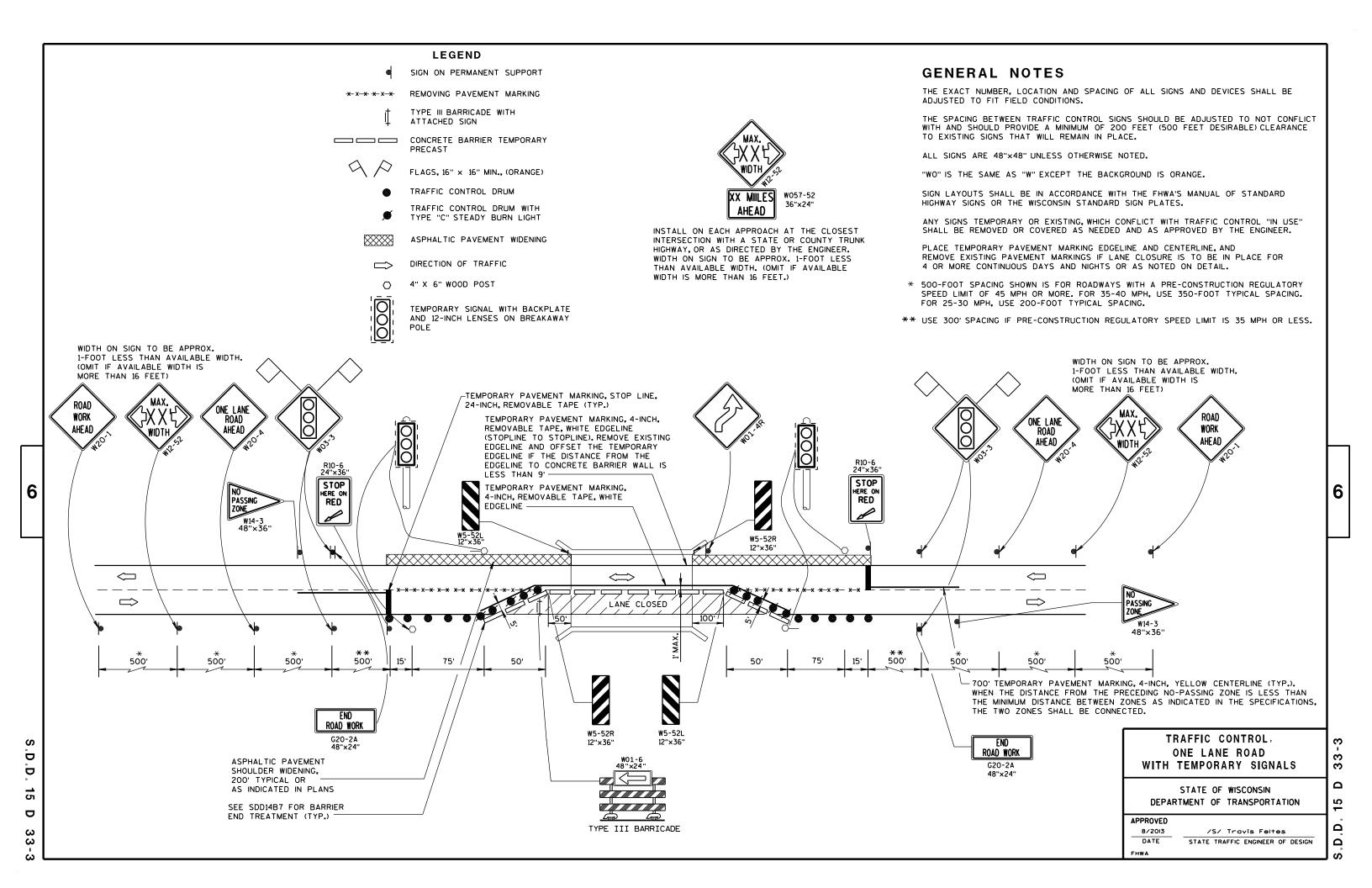
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

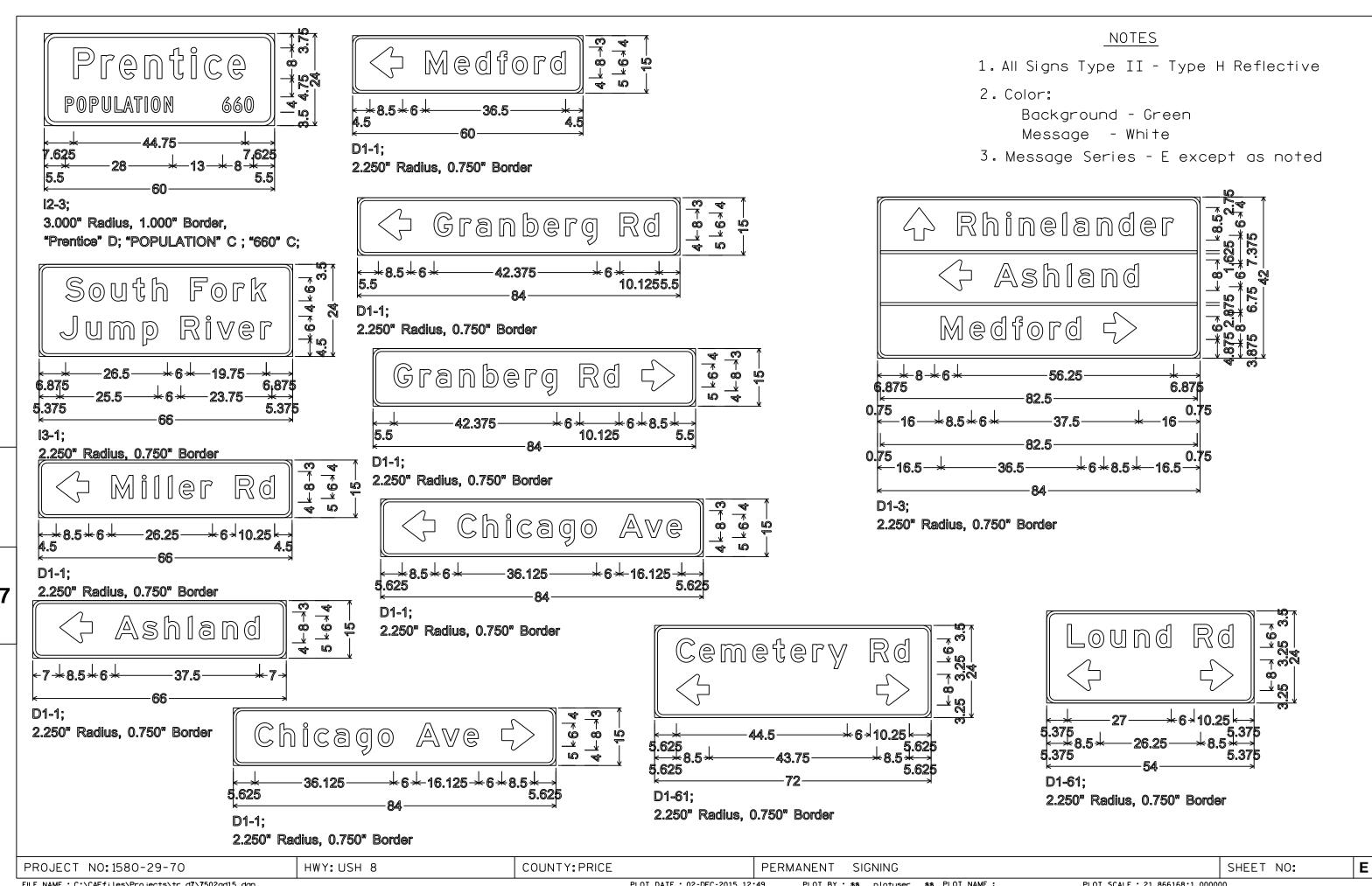
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

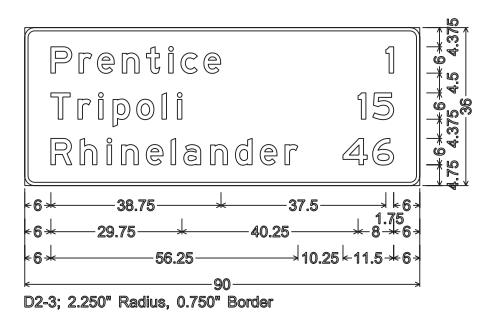
APPROVED
Feb. 2015
DATE
STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 2





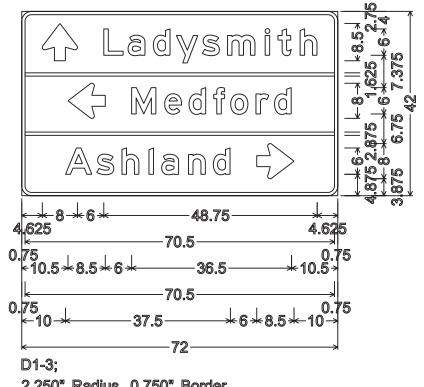


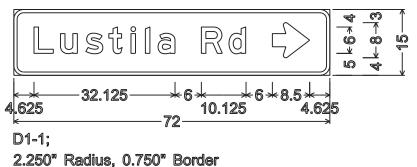


- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - Green Message - White

3. Message Series - E except as noted





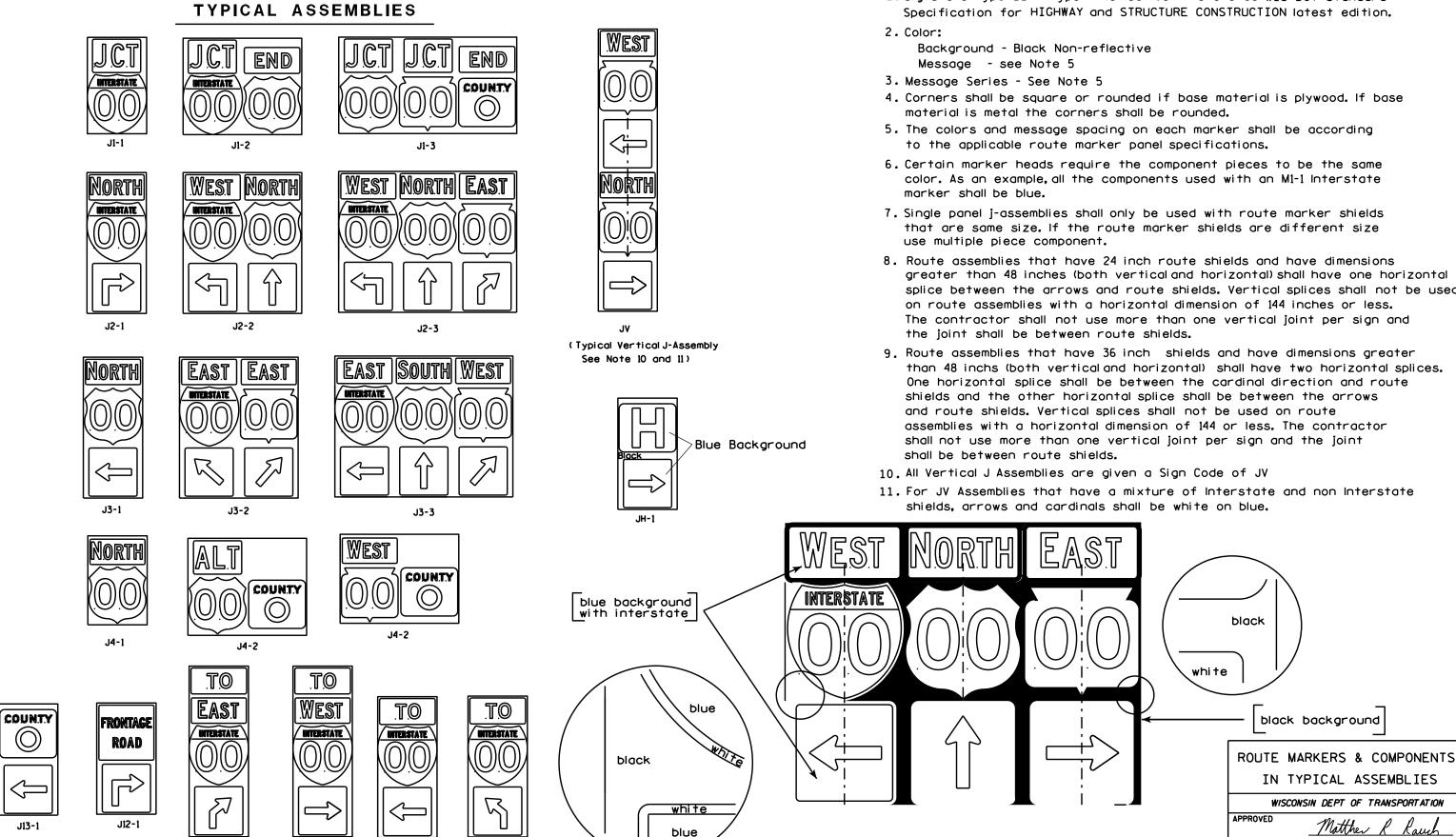
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2.250" Radius, 0.750" Border

PLOT SCALE . 21 866168.1 000000

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

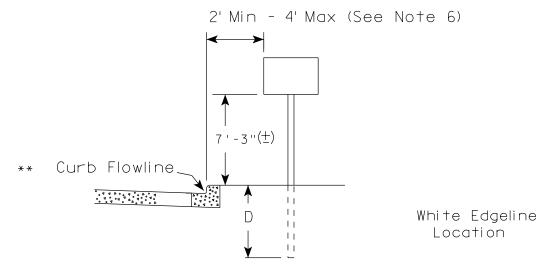
PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

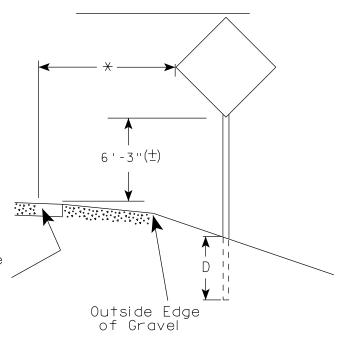
DATE 2/06/14

SHEET NO:

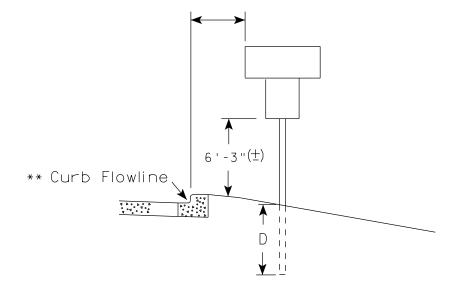
### URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生)  $D^{-1}$ Outside Edae of Gravel

White Edgeline Location

\*\* 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.

HWY:

\* 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.

PLOT BY : mscj9h

### 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  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5' - 3'' (\pm)$ .
- 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'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . 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'' ( $\pm$ ).

### POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000



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



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

HWY:



### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

### 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.

#### URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) \*\* Curb **\*\*\*\***\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

# 2' Min - 4' Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

## \_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED		
	L	E	
<del>* * *</del>	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

### POST EMBEDMENT DEPTH

of Gravel

Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY \* \$\$ nintuser \$\$

SHEET NO:

| | |



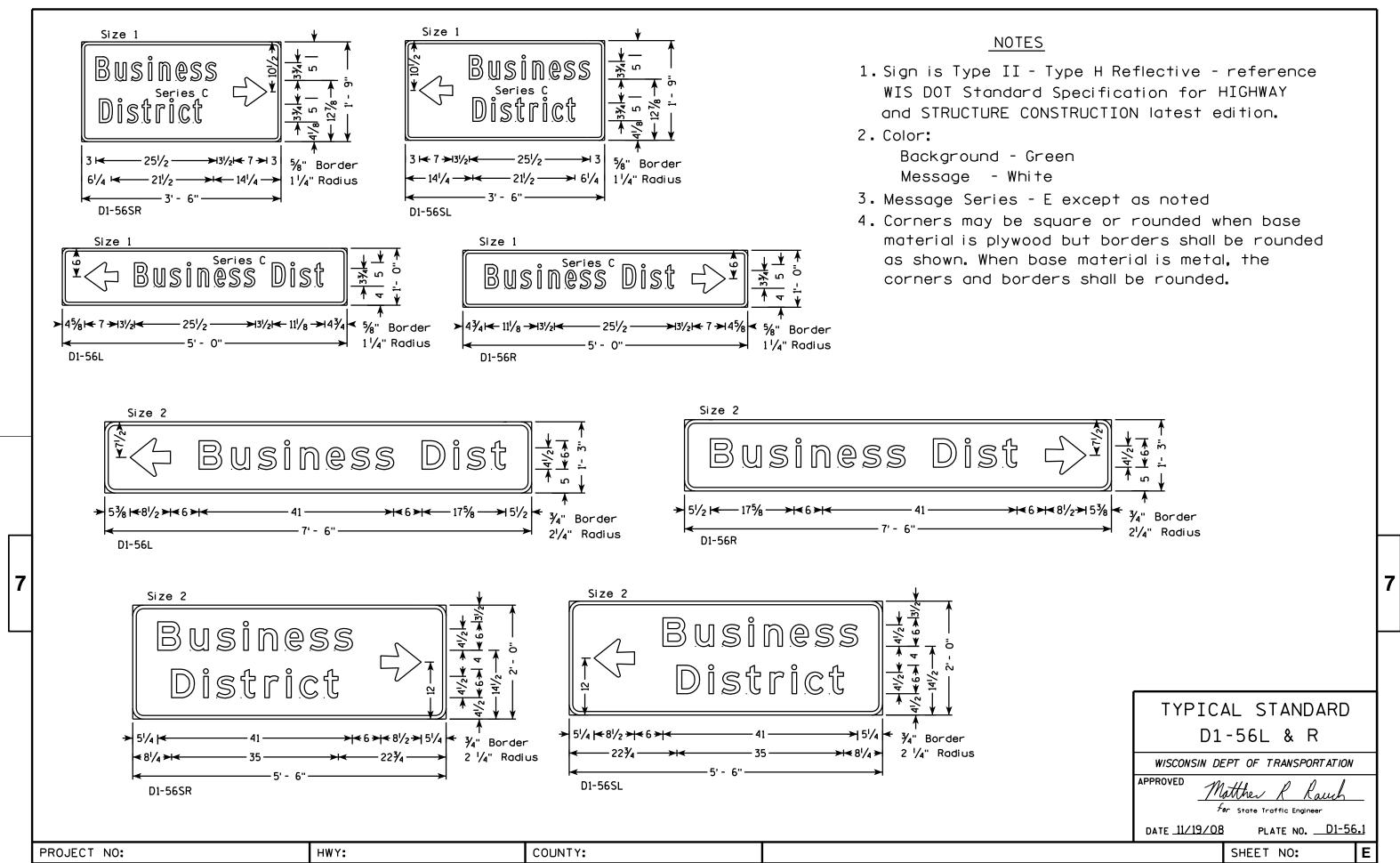
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer





FILE NAME : C:\Users\Projects\tr\_stdplate\D156.DGN

PLOT DATE: 10-DEC-2008 13:32

PLOT BY : ditjph

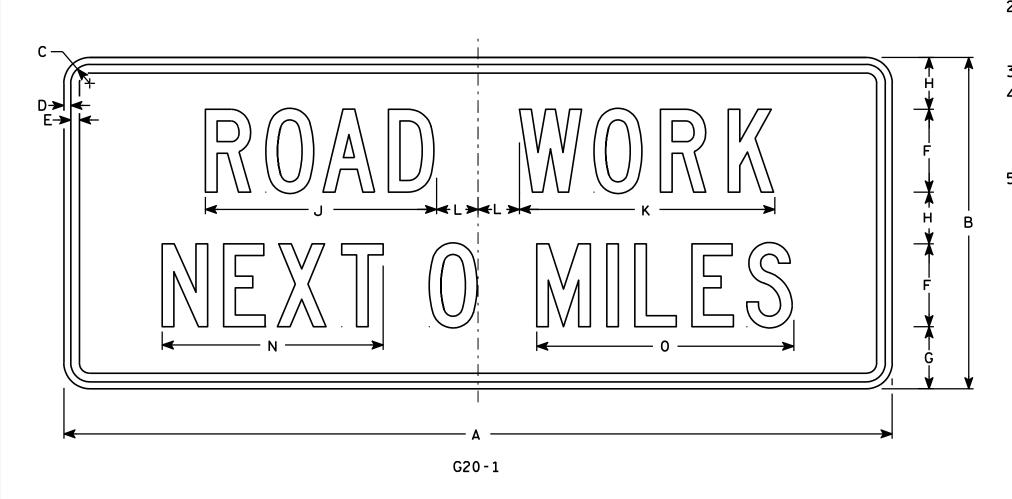
PLOT NAME :

PLOT SCALE: 17.988750:1.000000

- 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:

PROJECT NO:

SIZE				
1				
2	1500	mm X	600	mm
3				
4	1500	mm X	600	mn
5				

SIZE	Α	В	С	D	E	F	C	Н	I	J	K	L	M	N	0	Ρ	0	R	S	Т	C	٧	₩	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 ¾	18 1/2	3		16	18 %												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 1/2	3		16	18 %												10	.90
5																												

COUNTY:

STANDARD SIGN G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chests J Spane for State Traffic Enginee PLATE NO. G20-1.7 DATE 4/8/97

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\G201.DGN

HWY:

PLOT DATE: 12-0CT-2005 17:02

PLOT BY : DITJPH

PLOT NAME :

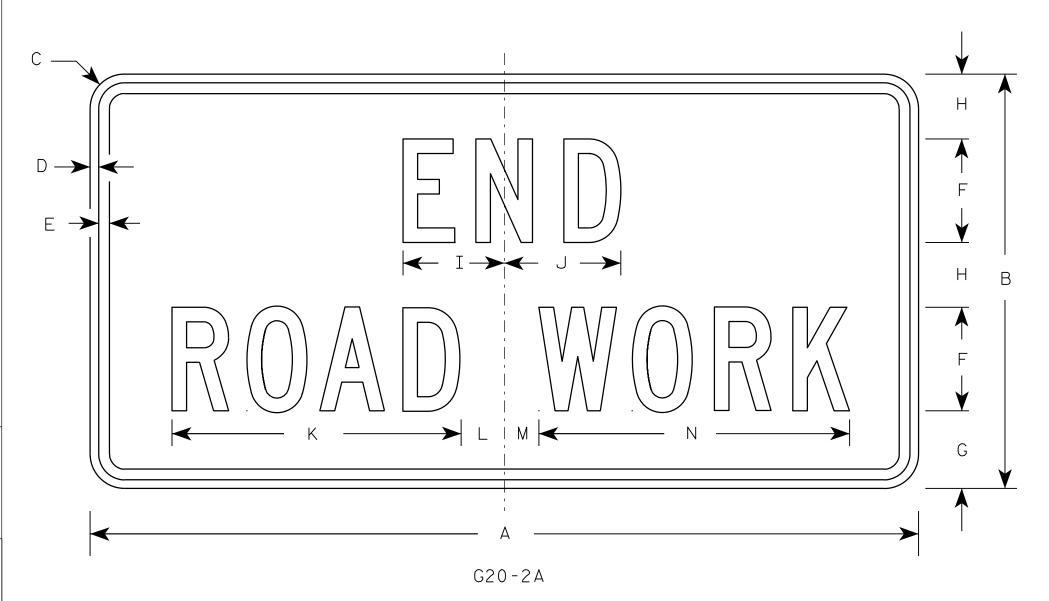
PLOT SCALE: 6.954307:1.000000

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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

Matther R Lauch

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

E → SPONSOR A F Y G Z F Z A F X A

HWY:

Background Colors of Symbol\*

**₽** 4

\* VARIES

White Black Green Orange

 $^*$  $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

#### I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

COUNTY:

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.

> STANDARD SIGN I55-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\I5556.DGN

PROJECT NO:

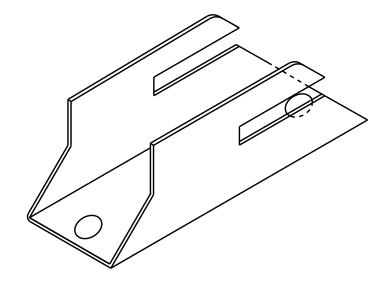
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

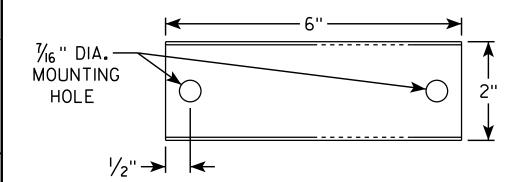
PLOT NAME :

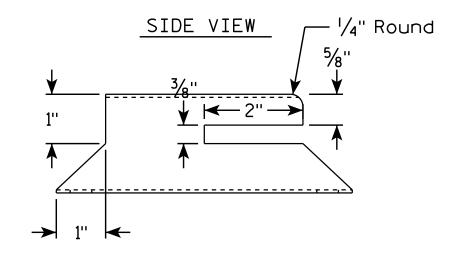
PLOT SCALE: 7.945391:1.000000

### ISOMETRIC VIEW



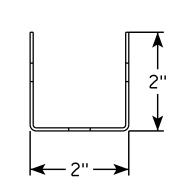
### TOP VIEW





HWY:

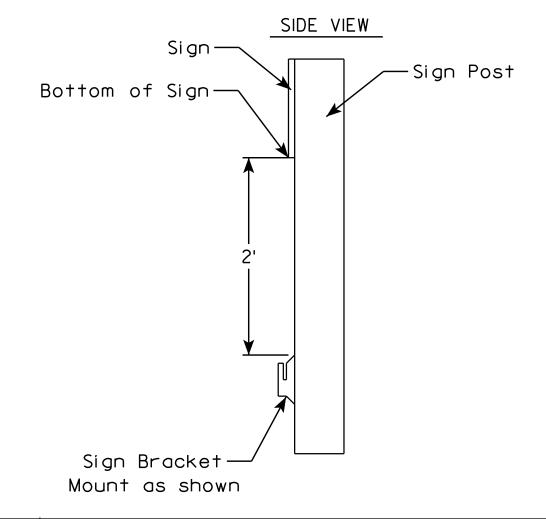
### END VIEW



COUNTY:

### NOTES

- 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  $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

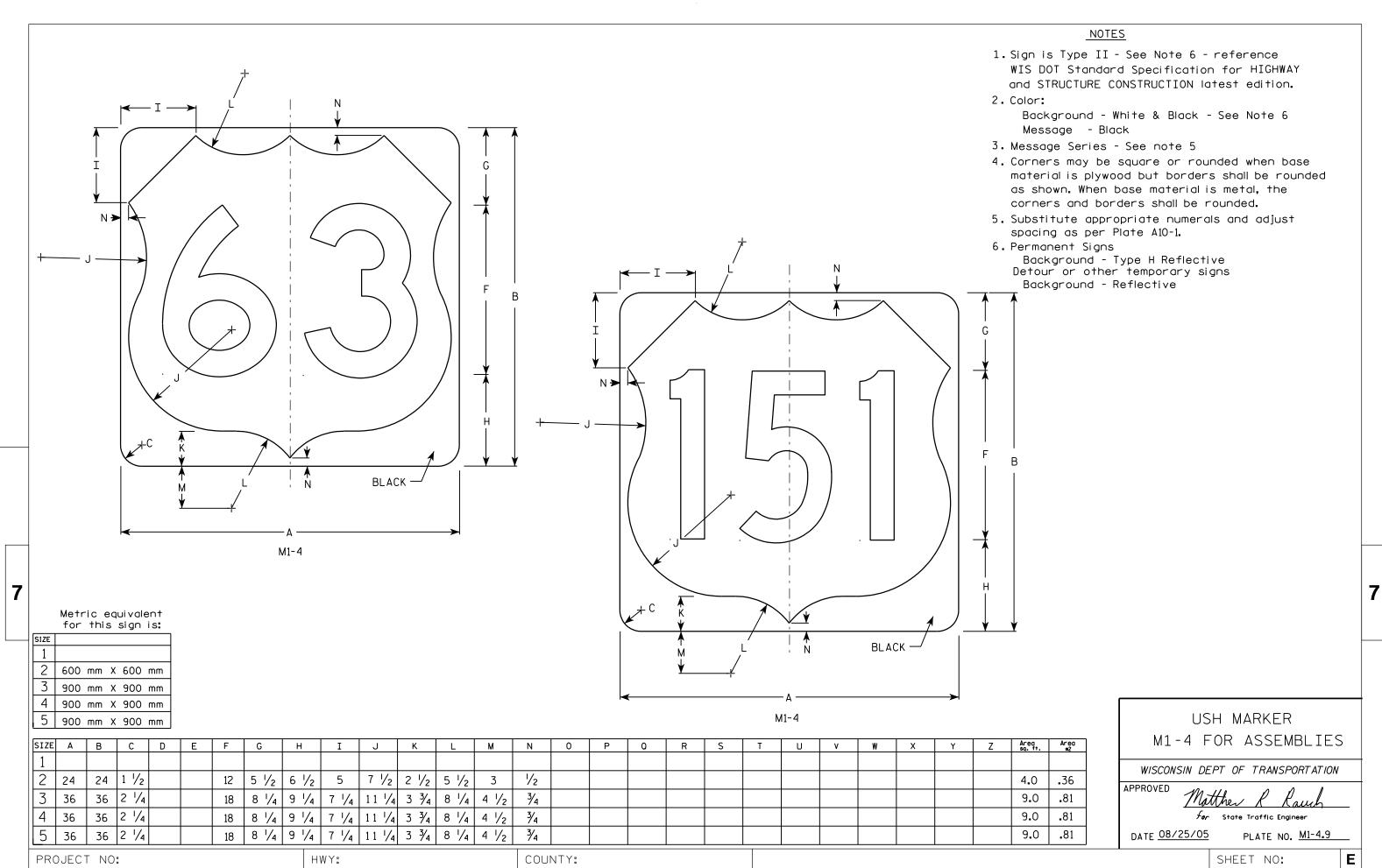
DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION



FILE NAME : C:\Users\Projects\tr\_stdplate\M14.DGN

PLOT DATE: 13-OCT-2005 14:52

PLOT NAME :

PLOT BY : DITJPH

PLOT SCALE: 5.960833:1.000000

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

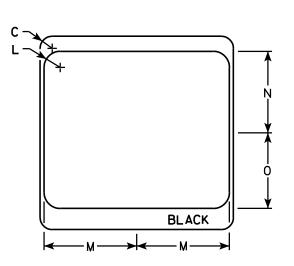
Background - White & Black - See Note 7 Message - Black

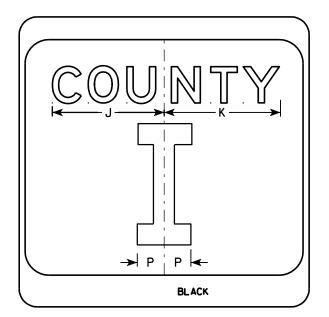
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

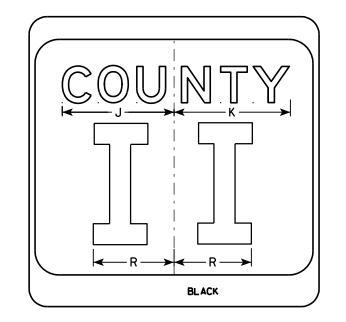
  Message Series D for 2 letters unless
  message is too big then Series C.

  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







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	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 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
DDO	IECT	NO.					111						COUN	TV.													
FRU	JECT	NO.					HV	V I .						I I .					I								

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

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

DATE 9/27/11

SHEET NO:

**BLACK** 

M1-5A

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White & Black - See Note 6 Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs Background - Type H Reflective Detour or temporary Signs Background - Reflective

		BLACK	
Metric equivalent for this sign is:	M1 -		

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm

900 mm X 900 mm 5 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	٥	R	S	Т	U	v	w	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	<b>.</b> 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	<b>.</b> 81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 ½	2 1/8	16 1/8	33											9.0	<b>.</b> 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. M1-6.9

DATE 3/20/02

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\M16.DGN

PLOT DATE: 13-OCT-2005 14:55

PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 6.715871:1.000000

- 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

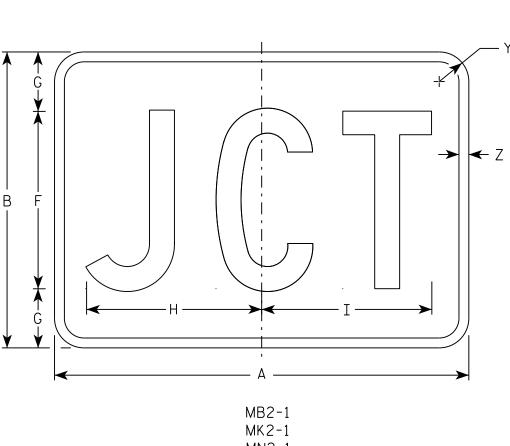
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	Х	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch  $f_{or}$  State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

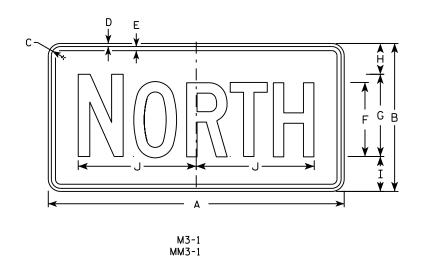
MM2-1

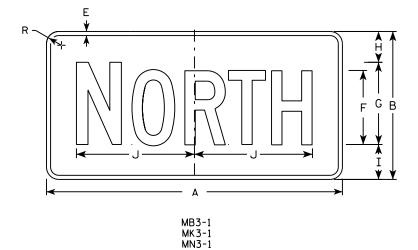
MP2-1

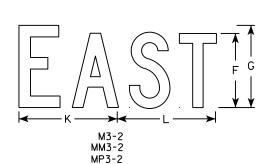
PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

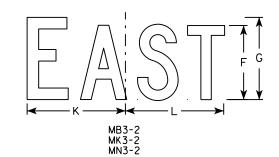
PLOT SCALE • 4 864603•1 000000

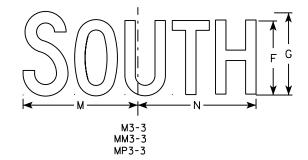


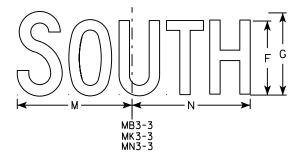


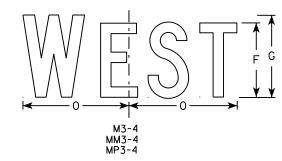


MP3-1

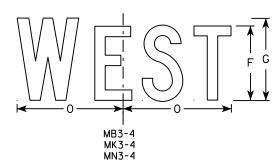








HWY:



#### 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	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 1/8	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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

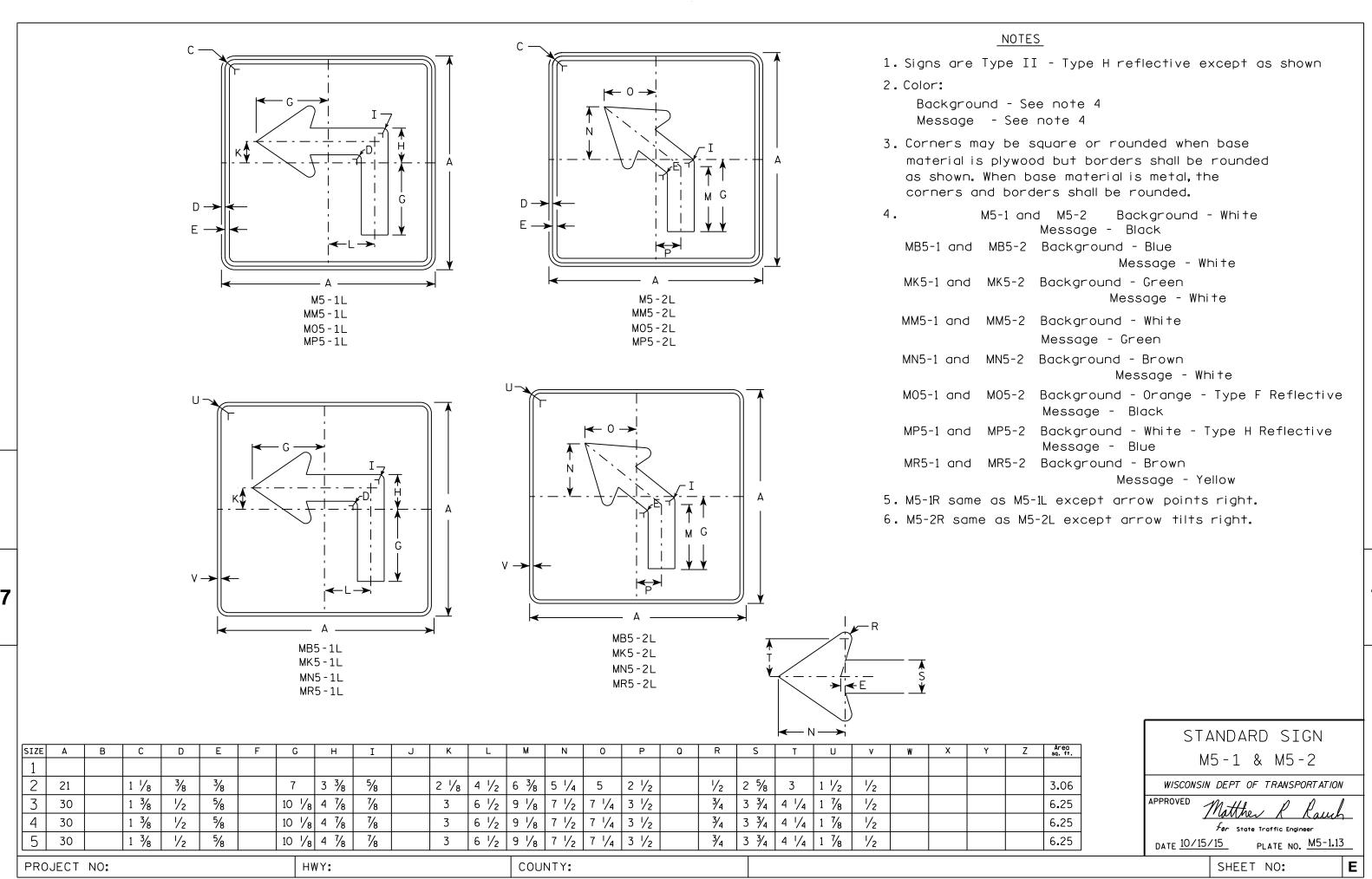
FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

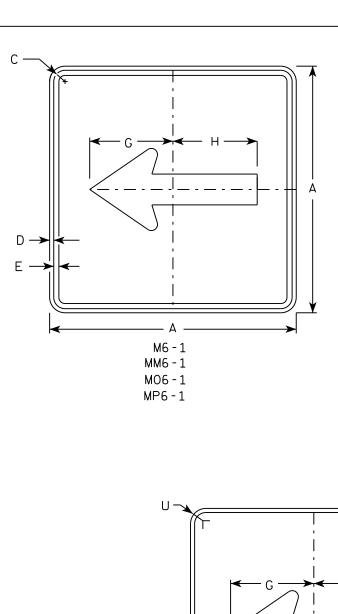


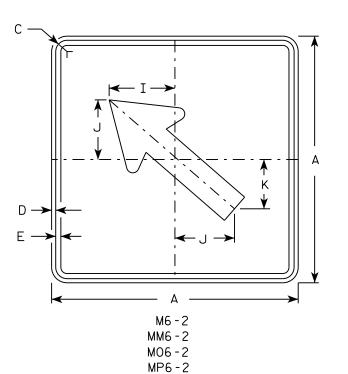
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

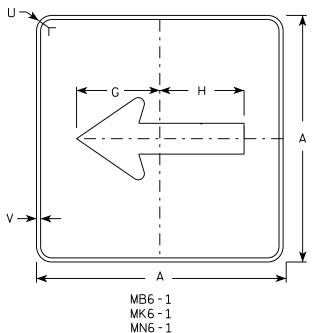
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

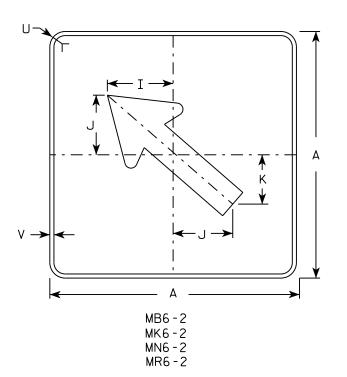






MR6-1

HWY:



#### 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

M06-1 and M06-2 Background - Orange - Type F Reflective

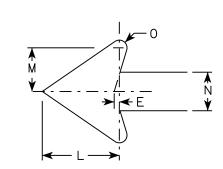
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	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 1/8	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 1/8	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 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

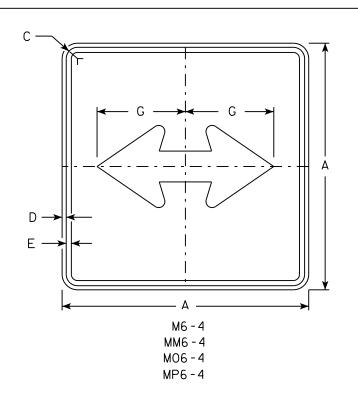
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

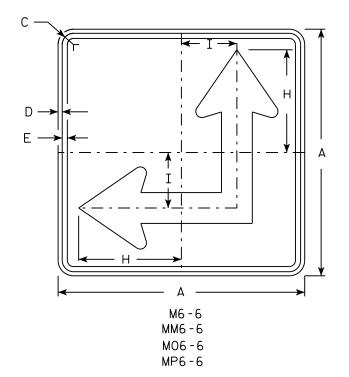
PROJECT NO:

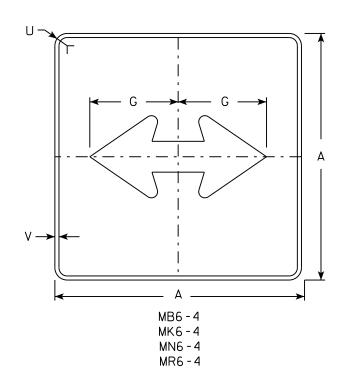
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

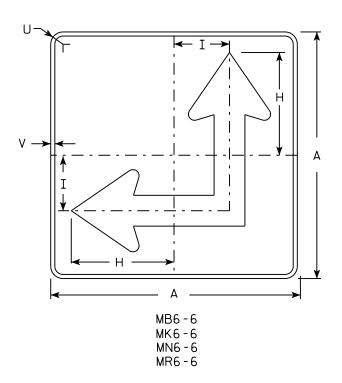
PLOT SCALE . 11 675051.1 000000







HWY:



#### 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

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

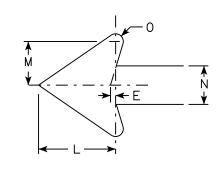
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	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 1/8	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 1/8	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 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

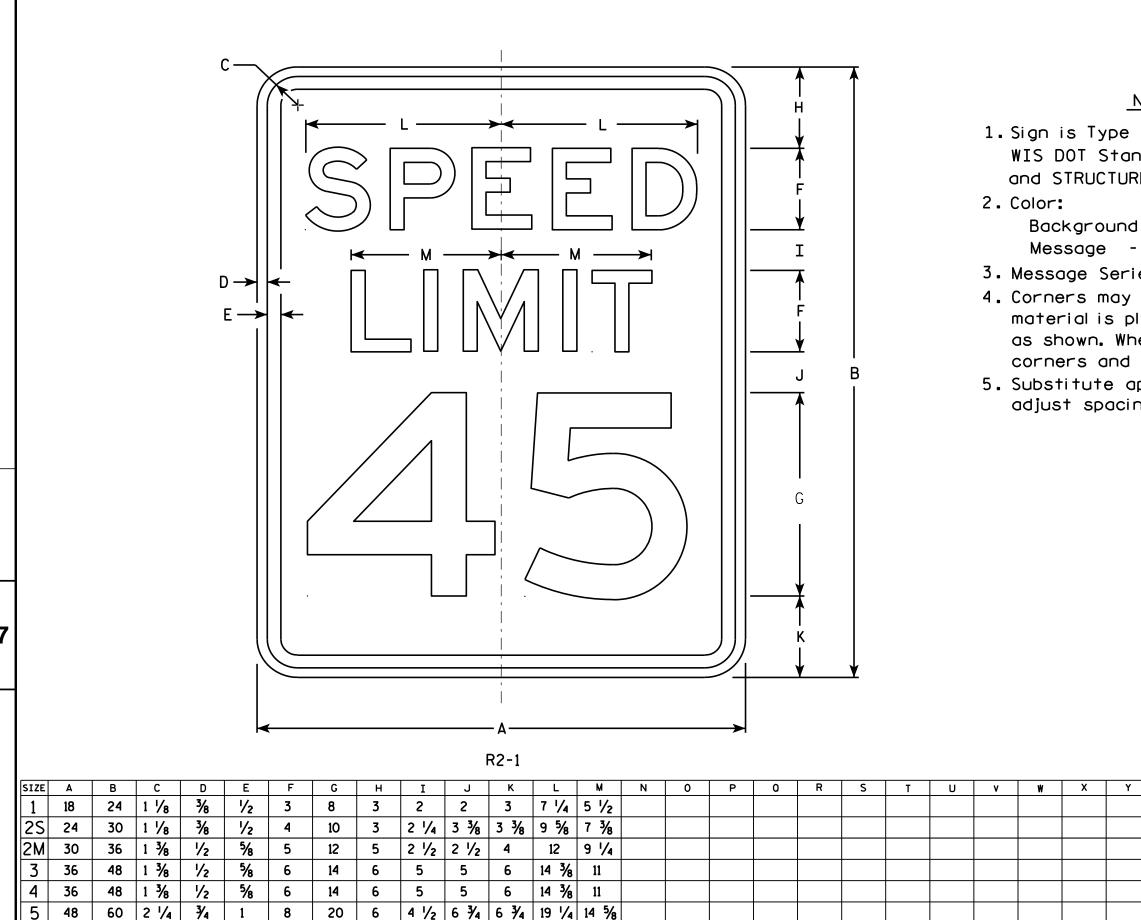
PROJECT NO:

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 R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. \_\_\_\_\_R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ plotuser \$\$ PINT NAMF :



COUNTY:

#### NOTES

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

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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raus

For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R21.DGN

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

- 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.

	G + H B
	F G W
R2-6P	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 %	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

COUNTY:

STANDARD SIGN R2-6P

WISCONSIN DEPT OF TRANSPORTATION

PPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R26P.DGN

PROJECT NO:

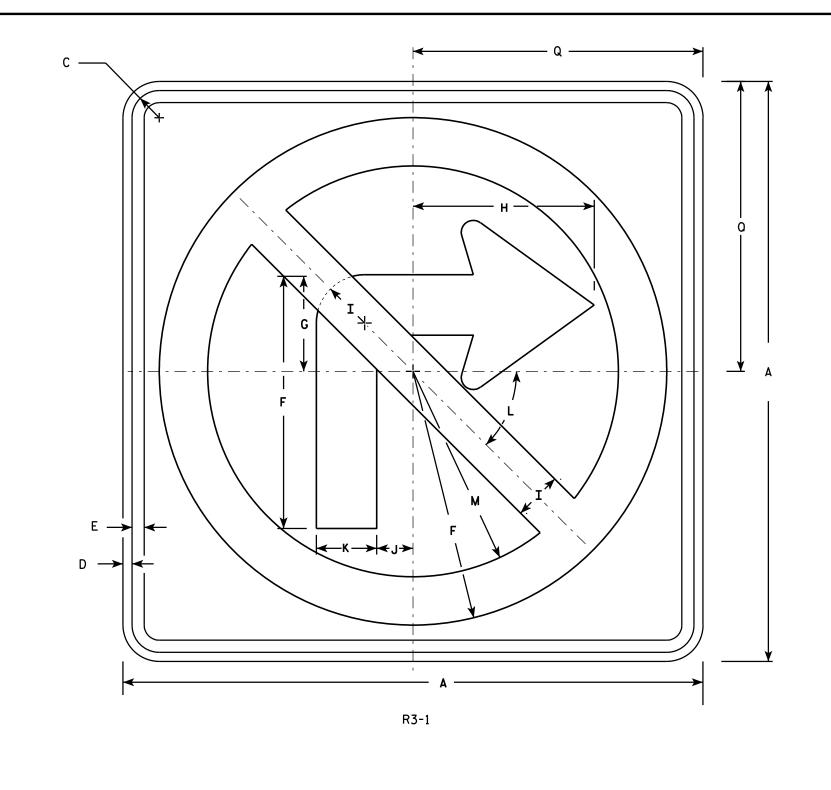
HWY:

PLOT DATE: 20-DEC-2010 14:18

PLOT BY: dotsja

PLOT NAME :

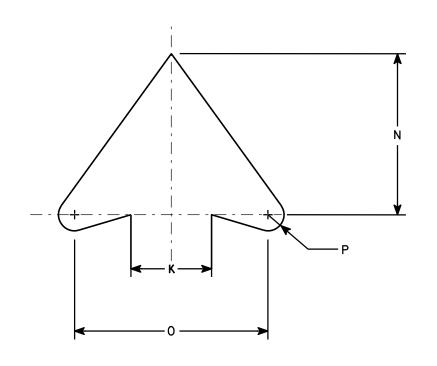
PLOT SCALE: 5.338308:1.000000



- 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 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



#### ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3∕4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

COUNTY:

STANDARD SIGN R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

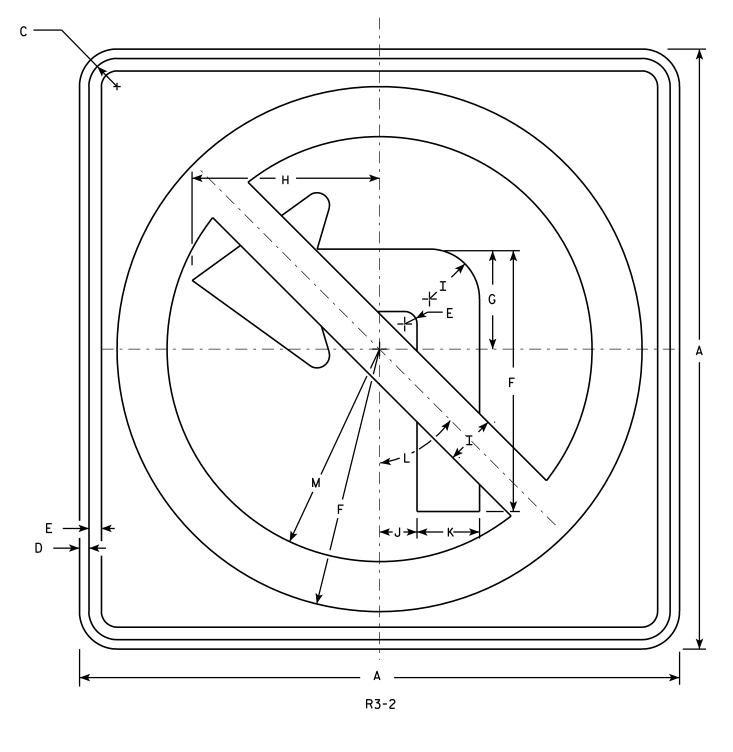
DATE 12/08/10

PLATE NO. \_\_R3-1.5

SHEET NO:

HWY:

PROJECT NO:

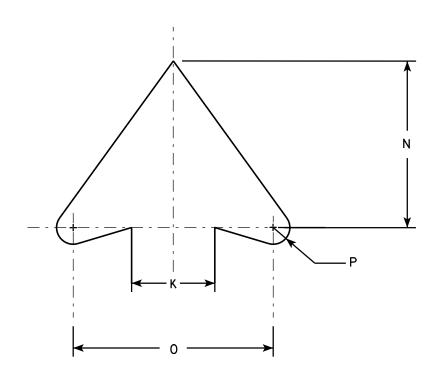


#### <u>NOTES</u>

- 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 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	C	D	E	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Mat

For State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

SHEET NO:

HWY:

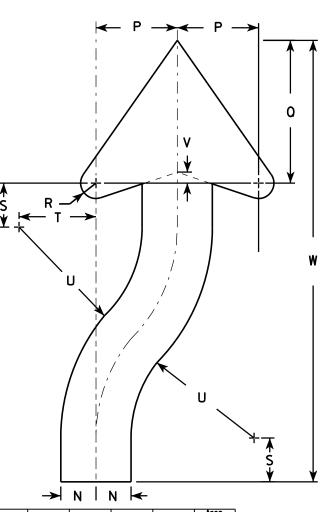
PROJECT NO:

PLOT NAME :

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

																							$\rightarrow$	ŊΙ	N <del> </del>		
SIZE	Α .	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	₩	X	Y	Z	Areg sq. ft.
1	18	24	1 1/8	3∕8	1/2	3 %	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2 22	1/2	3 1/2	6 1/8	5/8	1 1/8	3 1/4	6 3/4	1/2	20 ¾				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	<b>7</b> ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
21	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2 3	30	4 %	8 1/8	<b>7</b> ⁄8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 3/4	3 4	15	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 ¾				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 1/8	4 1/2	12	6	18 ¾	3 4	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 %	5	8 ¾	18	1 1/4	50 1/4				20.0

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

For State Traffic Engineer DATE 3/25/2011

PLATE NO. R4-7.8

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R47.DGN

PROJECT NO:

D→

HWY:

PLOT DATE: 25-MAR-2011 14:10

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.462457:1.000000

# <u>NOTES</u>

- 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.

Whi te Red White R5-1

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2S	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	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 %	10 ¾											9.0
3	36		2 1/4		6	5	7 1/2	2 ½	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	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 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 %	14 1/2	23 ½	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

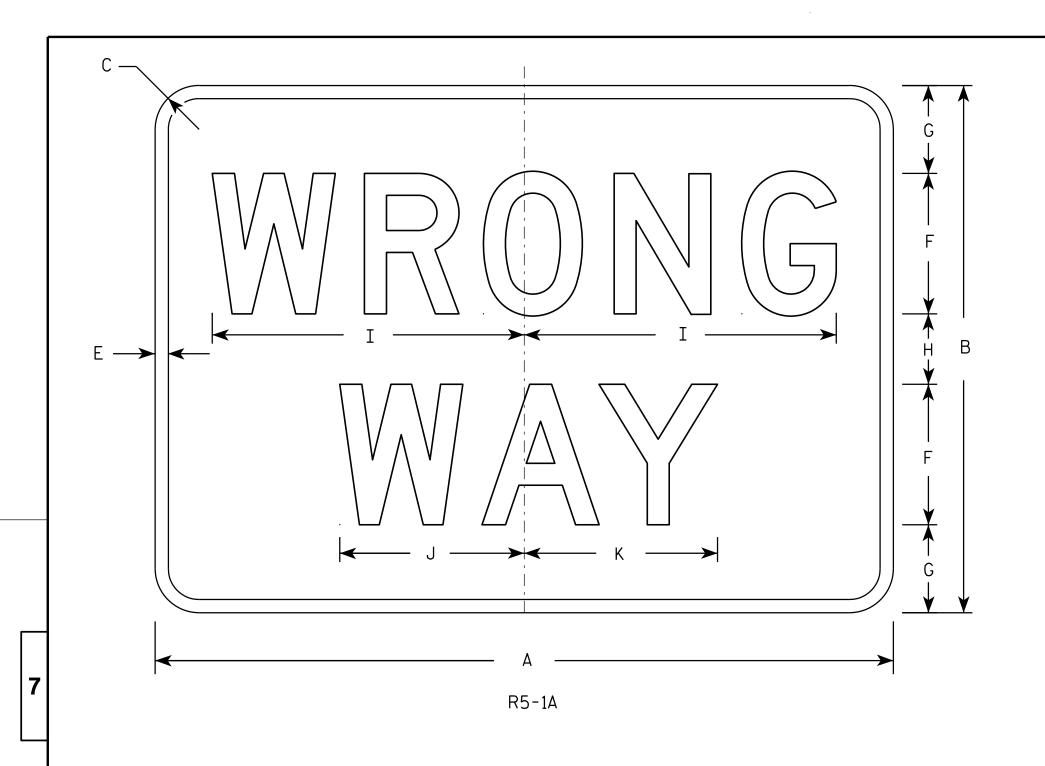
DATE 12/17/10 PLATE NO. R5-1.15

SHEET NO:

PROJECT NO:

HWY:

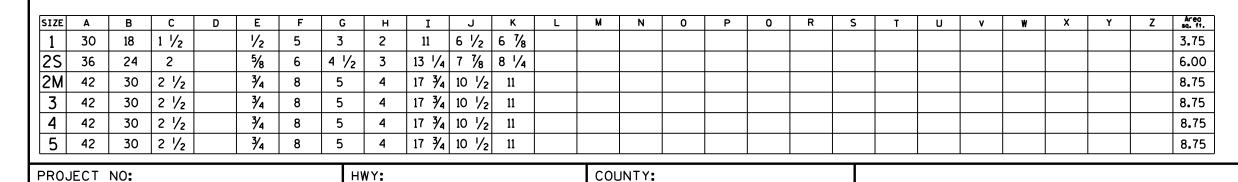
PLOT NAME :



- 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 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.



STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud

For State Traffic Engineer PLATE NO. R5-1A.2

DATE 12/17/10

SHEET NO:

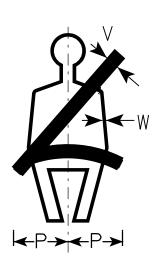
PROJECT NO:

PLOT NAME :

- 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.



	<b>\</b>
C BUCKE PP	G       F       H       A       B       B       G       F       J       K
	G V
<b>←</b> A →	<b>A</b>
R5-53A	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	l v	w	Х	Y	Z	Area sq. ft.
1																											
25	18	24	1 1/8	3/8	3/8	2	1 3/4	1 1/2	9	1 1/4	3	6 3/4	2 1/4	1 1/2	2 1/8	2 1/2	3 1/8	1 1/4	3%	4 %	3 1/8	5/8	1/8				3.00
2M	18	24	1 1/8	3/8	3/8	2	1 3/4	1 1/2	9	1 1/4	3	6 ¾	2 1/4	1 1/2	2 1/8	2 1/2	3 %	1 1/4	3/8	4 %	3 1/8	5/8	1/8				3.00
3																											
4																											
5	42	54	2 1/4	3/4	1	5	4	3 1/2	20	2 1/2	6	17 %	6	4	7 %	5 ¾	10	3 ½	1	12 1/4	8	11/2	3/8				15.75
PRO.	JECT	NO:					HWY	<b>/:</b>					COUNT	Y:													

STANDARD SIGN R5-53A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

PLATE NO. R5-53A.5 DATE 3/29/2011

SHEET NO:

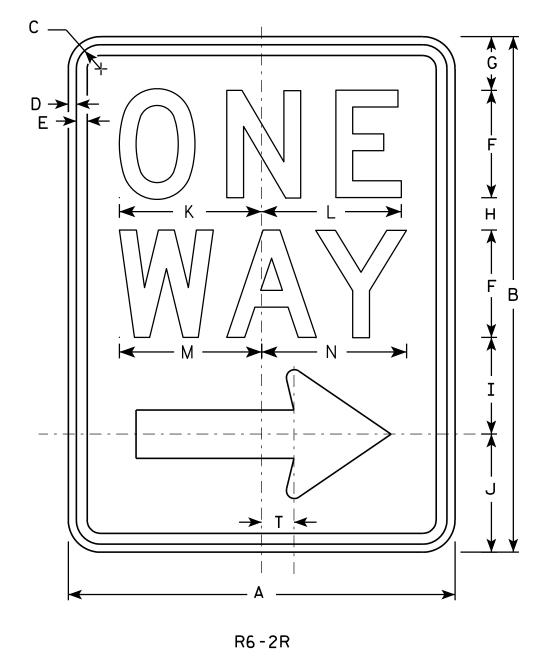
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R553A.DGN

PLOT DATE: 29-MAR-2011 13:56

PLOT BY: mscsja

PLOT NAME :

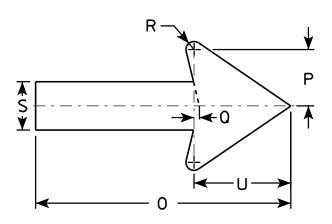
PLOT SCALE: 10.130374:1.000000



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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



SIZE	Α	В	С	D	E	F	G	Η	I	J	K	L	М	N	0	Р	0	R	S	Т	J	٧	W	Х	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 ¾	11 %	2 %	1/4	3∕8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 ½	7	8 1/8	8 1/8	8 1/2	8 %	16	3 ½	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 %	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 ½	24	5 %	1/2	3/4	4 3/4	3	9					
5	·										·									·				·		
1																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R62.DGN

HWY:

PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT NAME :

PLOT BY: ditjph

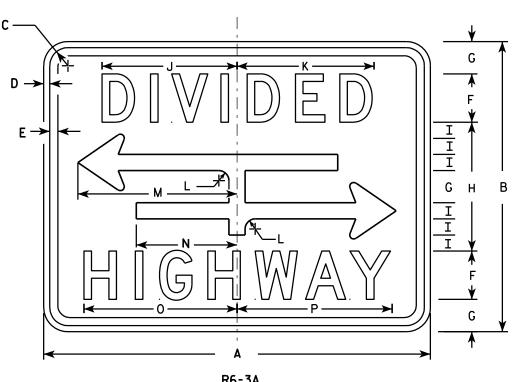
PLOT SCALE: 4.469282:1.000000

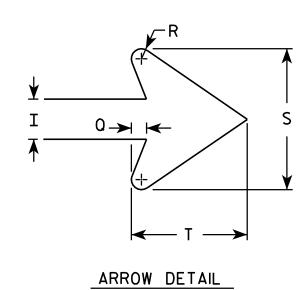
# <u>NOTES</u>

- 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	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	P	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	24	18	11/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 %	6 1/4	9 1/2	9 %	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	<b>7</b> /8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
2M	30	24	11/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2	10 %	<b>7</b> ⁄8	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
3																											
4																											
5																											
					•										•												

STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE 3/31/2011

PLATE NO. R6-3.5 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R63.DGN

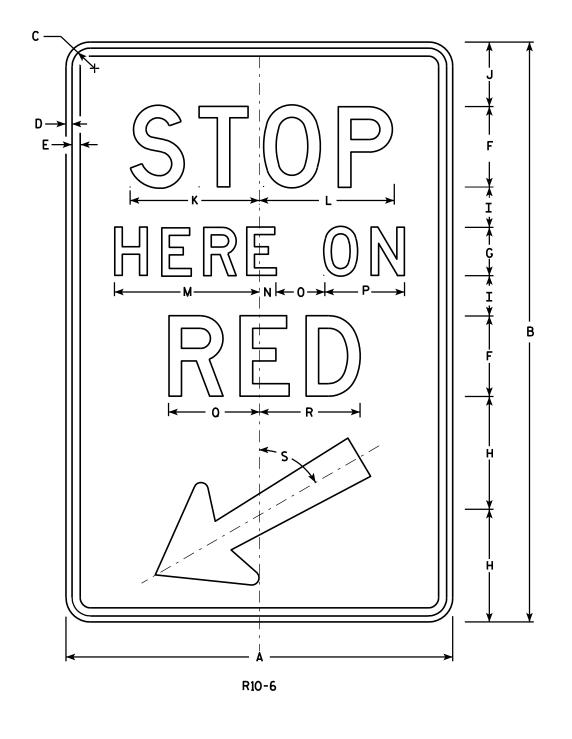
PROJECT NO:

R6-3

PLOT DATE: 31-MAR-2011 09:08

PLOT BY: mscsja

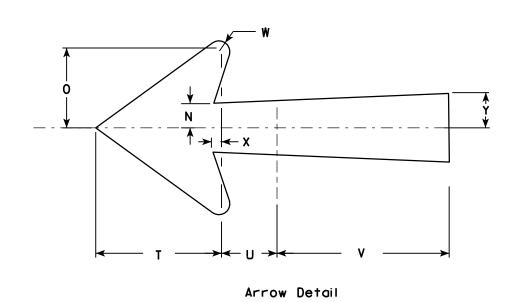
5.959043:1.000000



- 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	Α	В	С	D	Ε	F	G	Н	I	٦	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											
							•		•			•												•			

COUNTY:

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 4/5/11

HWY:

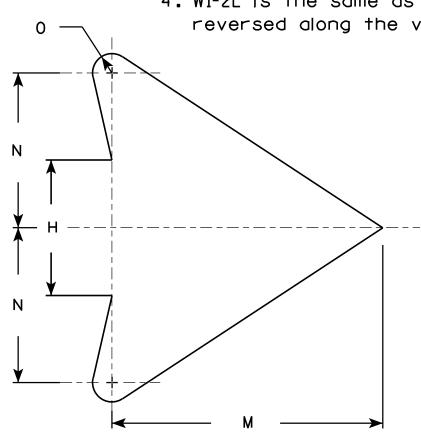
PROJECT NO:

PLOT NAME :

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW	DETAIL

								W:	1-2R															<u> </u>	<u>-</u>		
SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	v	W	х	Y	Z	Areo sq. ft.
1	24		1 1/8	3⁄8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 1/8	5/8	₹4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

DATE <u>5/15/12</u>

PLATE NO. <u>W1-2.10</u>

SHEET NO:

PROJECT NO:

**←** H →

HWY:

- 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.

	<b>A A</b>
	G
	<u>↓</u> B
N + H - H	
A	
W1-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areo sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Ma

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W16.DGN

HWY:

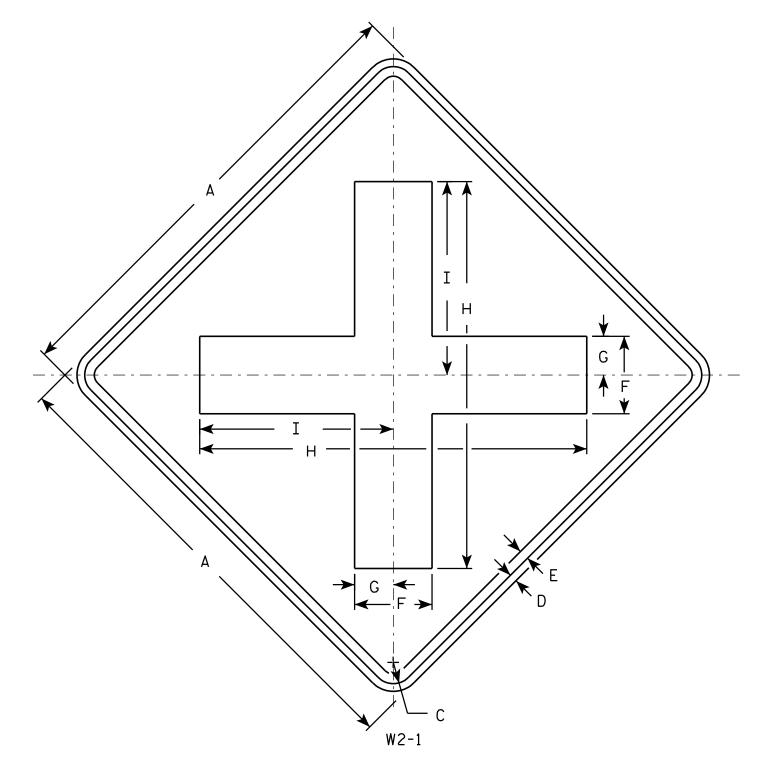
PROJECT NO:

PLOT DATE: 07-JUN-2010 10:37

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.959043:1.000000



- 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.

I																					,						1 4
SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	P	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 1/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	₹4	1	8	4	40	20																		16.0
5																											

COUNTY:

STANDARD SIGN W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

D

Matthew R Rawh
For State Traffic Engineer

DATE 5/29/12

PLATE NO. W2-1.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W21.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:10

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 6.202372:1.000000

- 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.

A G H H D E D D W2-2

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. fi.
1	24		1 1/8	3∕8	1/2	20	2	4	10	8																	4.0
25	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	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																											

COUNTY:

STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch For State Traffic Engineer

DATE 5/29/12

PLATE NO. <u>W2-2.6</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W22.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:18

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 6.202372:1.000000



- 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 B
- 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.

W4-4P

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areo sq. 11.
1																											
25	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/8	3⁄8	1/2	4	2 5/8	1 3/4	10 ¾	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 1/8	10 1/2	3 %	3 %	10 3/8											5.25
5																											

STANDARD SIGN W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /

For State Traffic Engineer

DATE 03/12/13

PLATE NO. <u>W4-4P.2</u>

HWY:

COUNTY:

PLOT BY: mscsja

PLOT SCALE: 5.458200:1.000000

SHEET NO:

PROJECT NO:

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

Background - Yellow

3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

W5-54	

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	Ν	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 1/2																		2.25
2M	18								1 1/2																		2.25
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W5-54

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch *for* State Traffic Engineer DATE 11/3/10 PLATE NO. W5-54.8

APPROVED

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W554.DGN

PROJECT NO:

HWY:

PLOT DATE: 03-NOV-2010 09:54

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 4.965871:1.000000

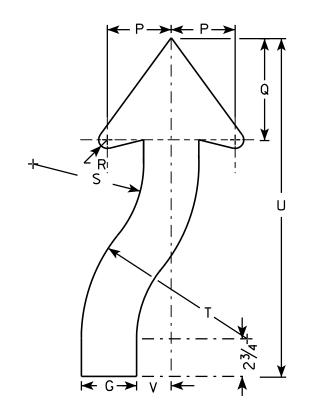
WISDOT/CADDS SHEET 42

Ε

- 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. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Ρ	0	R	S	Т	U	٧	W	Х	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 1/8	25	1 3/4	11 %	4 1/8	3 %	6 3/4	5/8	6 %	9 %	21 %	2					6.25
2S	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	<b>7</b> /8	8	12	24 1/2	2 1/2					9.0
2M	36		1 1/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 %	7 3/8	<b>7/8</b>	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 %	13 %	6 3/8	12 5/8	40	2 5/8	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 %	18 %	6 %	6 1/4	9 %	1 1/4	10 %	16	32 %	3 3/8					16.0

COUNTY:

W6-1

**←** G → ← G →

STANDARD SIGN W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
for State Traffic Engineer

DATE <u>03/12/13</u>

PLATE NO. <u>W6-1.14</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W61.DGN

PROJECT NO:

HWY:

PLOT DATE: 12-MAR-2013 14:02

PLOT BY: mscsja

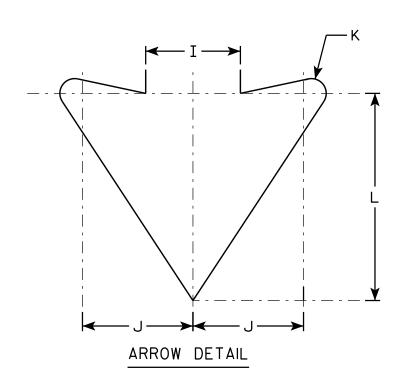
PLOT SCALE: 6.946657:1.000000

# <u>NOTES</u>

- 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.



									W6	-3																	
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 %															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 %															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

COUNTY:

STANDARD SIGN W6 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/10/16 PLATE NO. W6-3.11

SHEET NO:

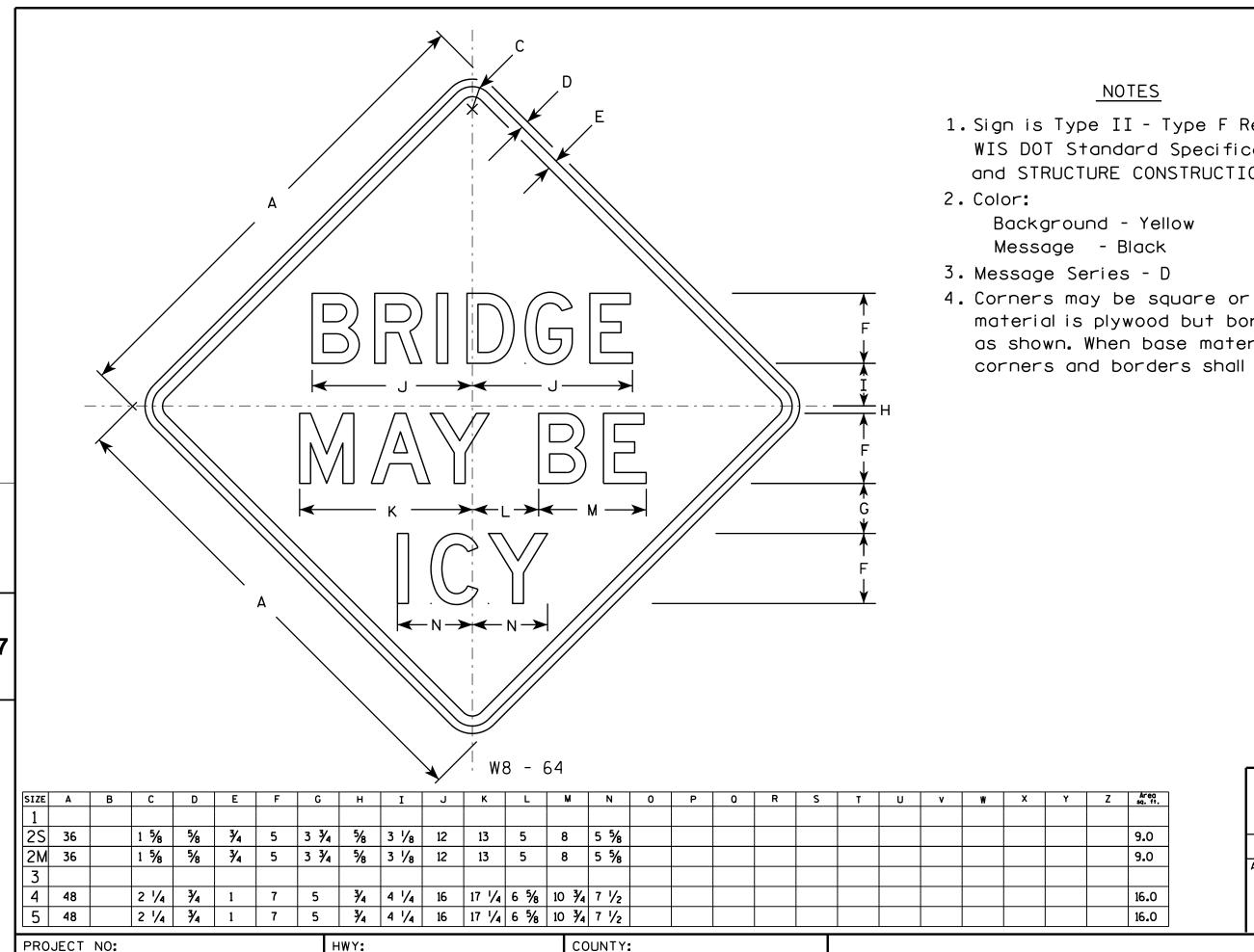
PLOT DATE: 10-MAR-2016 14:01 PLOT SCALE: 6.080757:1.000000 PLOT BY: mscsja

PROJECT NO:

**←** [ →**⊢** 

HWY:

**≺**H**>**<del>|</del>**←** I →



1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

> STANDARD SIGN W8 - 64

WISCONSIN DEPT OF TRANSPORTATION

DATE <u>03/14/13</u>

PLATE NO. W8-64.6 SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W864.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2013 09:40

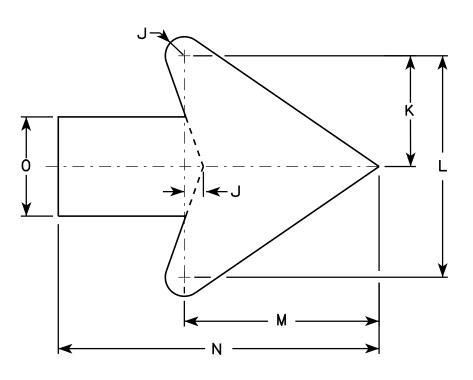
PLOT NAME :

PLOT SCALE: 9.242750:1.000000

- 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	Α	В	С	D	E	F	G	H	I	J	K	L	М	N	0	Р	o	R	S	T	U	٧	W	X	Y	Z	Areo
1																											
25	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 1/8	3/4	4 1/2	9	7 1/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 ¾	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

COUNTY:

W12-1D

STANDARD SIGN W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Fer State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W121D.DGN

HWY:

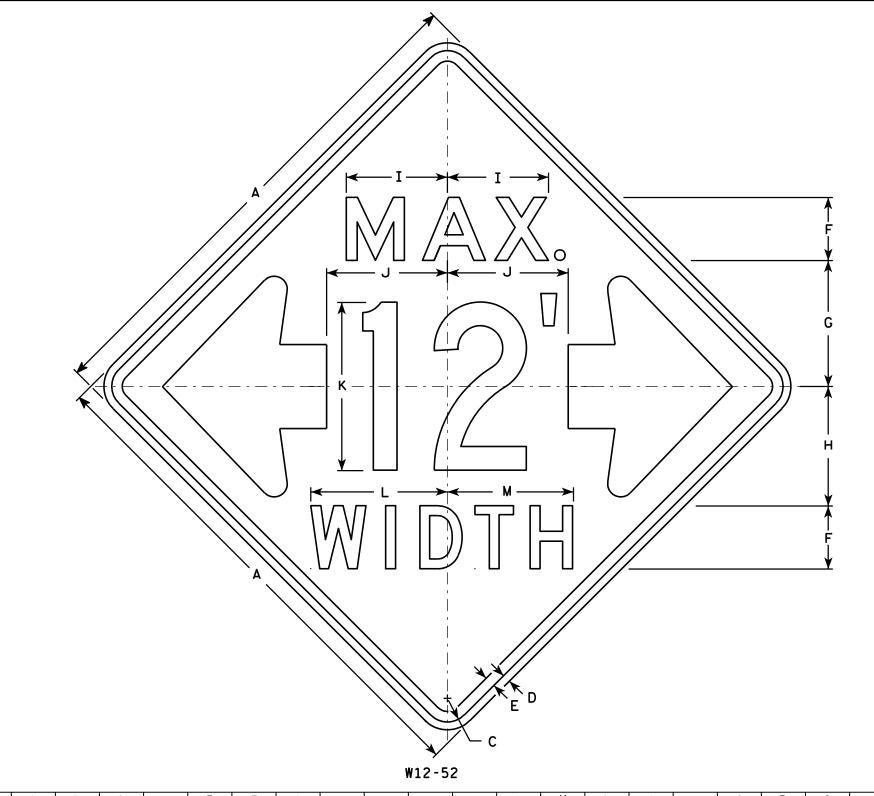
PROJECT NO:

PLOT DATE: 13-MAR-2013 13:26

PLOT NAME :

PLOT BY: mscj9h

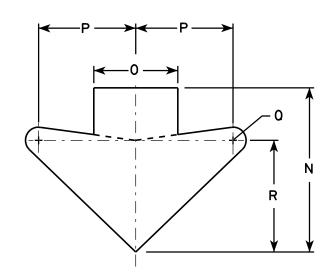
PLOT SCALE: 4.713802:1.000000



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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W1252.DGN

PROJECT NO:

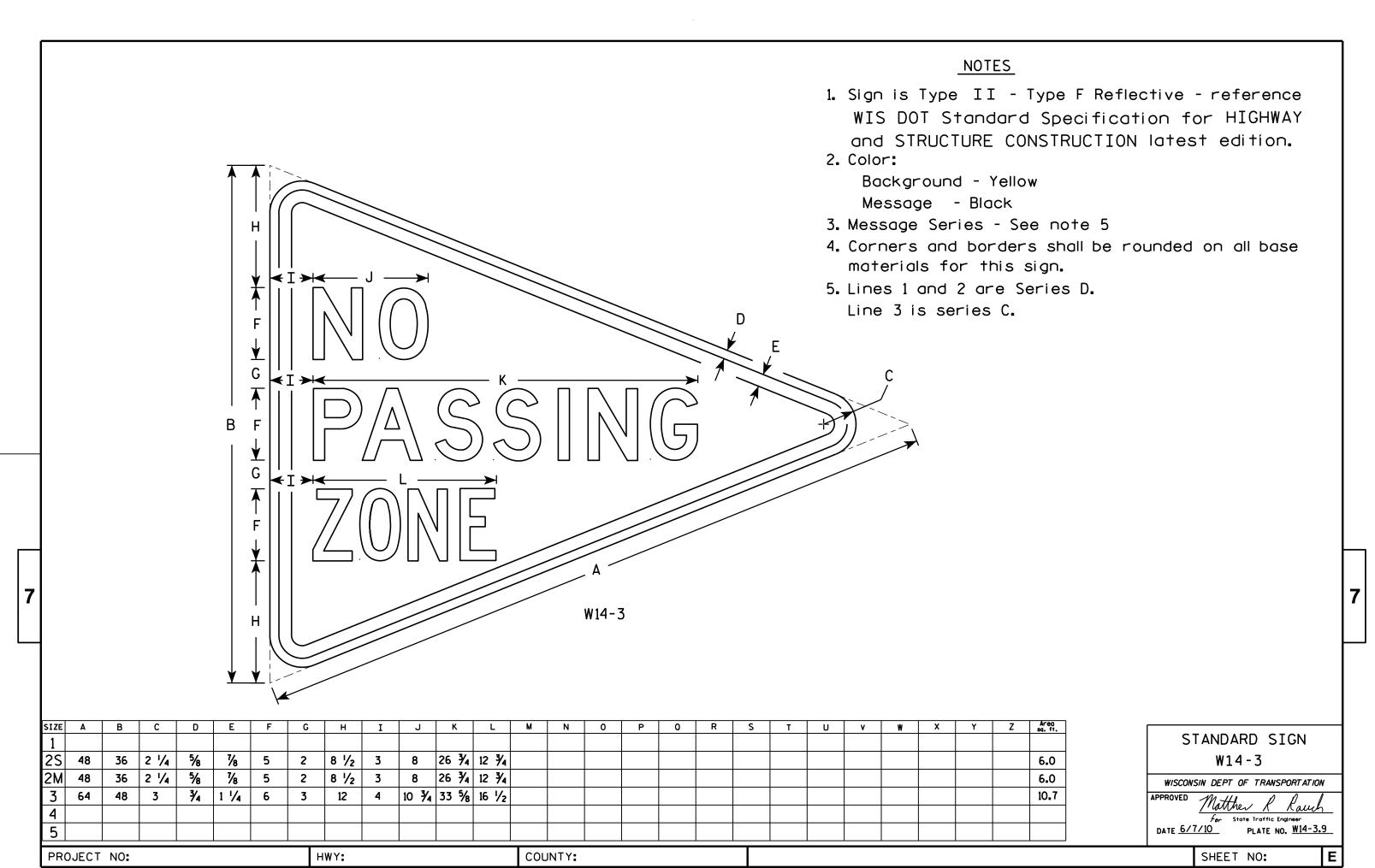
HWY:

PLOT DATE: 16-MAR-2011 14:45

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.137199:1.000000



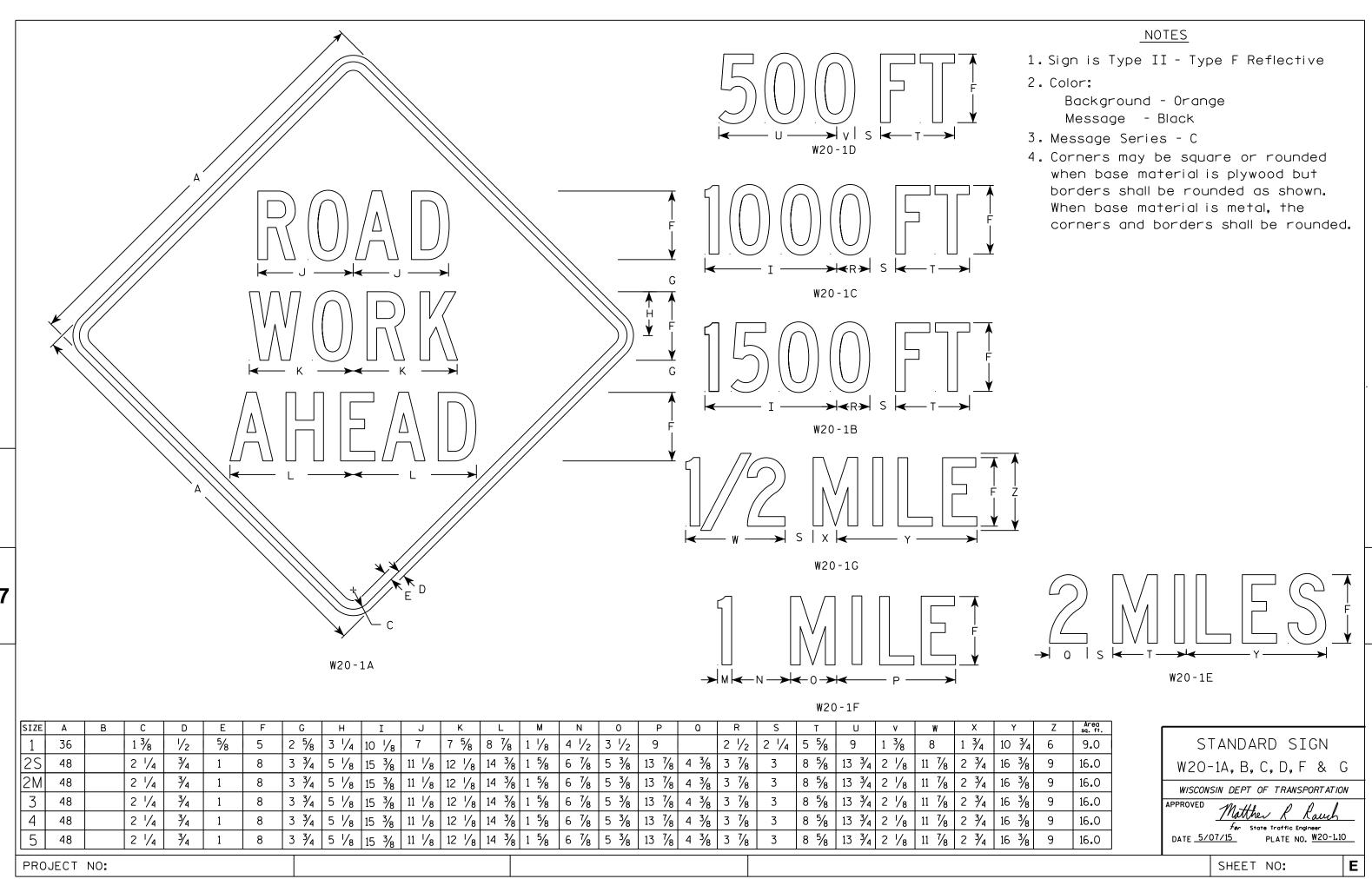
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.710749:1.000000



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

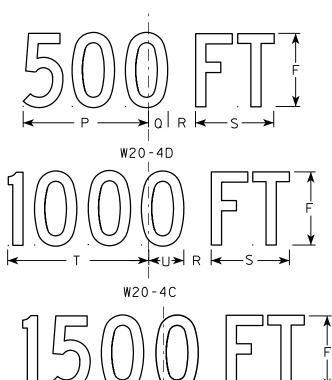
PIOT RY \* \$\$ plotuser \$\$

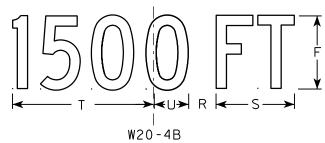


- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

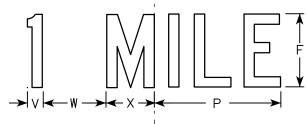
Background - Orange Message - Black

- 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.









PLOT BY: mscj9h

								W2	0-4A													W20-4	4F				
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 ½	7	8 %	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 ½	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 ½	3 3/8	1 1/2	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	14 3/8	2 3/8	16.0

W20-4A

STANDARD SIGN W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED State Traffic Engineer

DATE 3/18/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W204.DGN

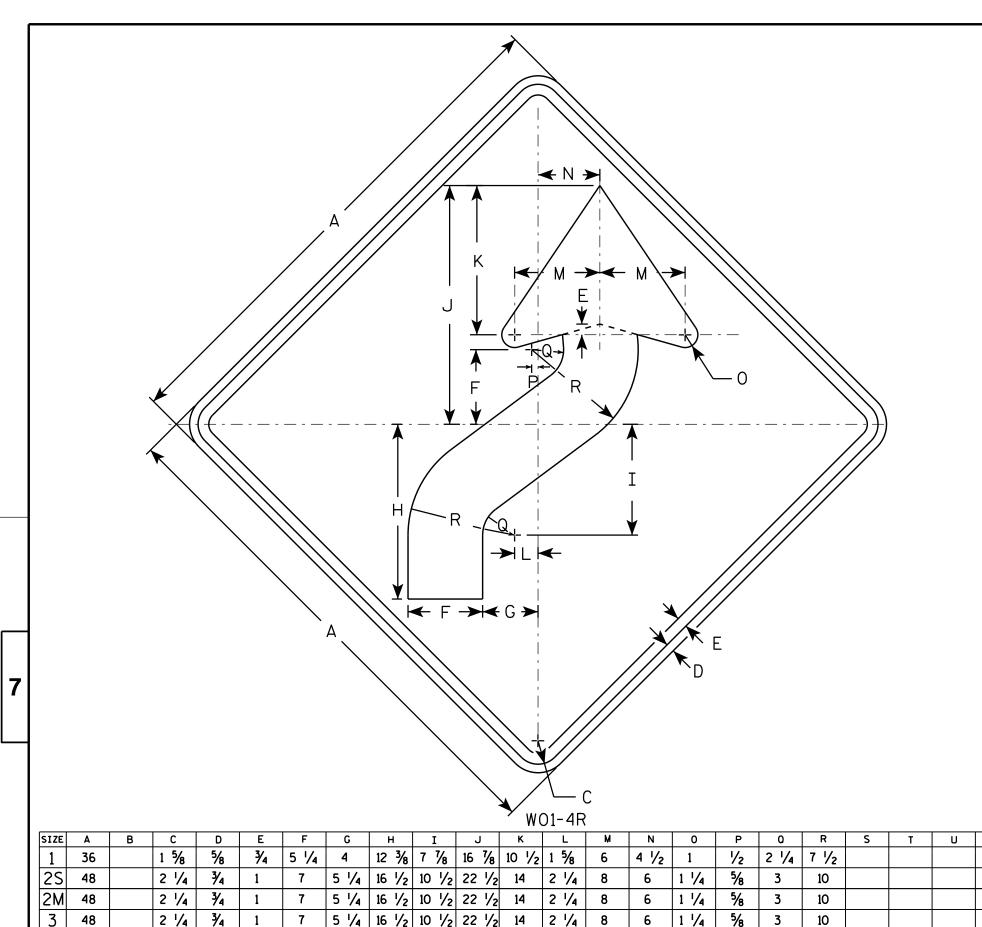
PROJECT NO:

PLOT DATE: 18-MAR-2011 12:11

WISDOT/CADDS SHEET 42

PLATE NO. W20-4.9

Ε



5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

### **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. 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. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

- 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. 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.

	G
	_ <b>¥</b> B
W01-6	₩

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

HWY:

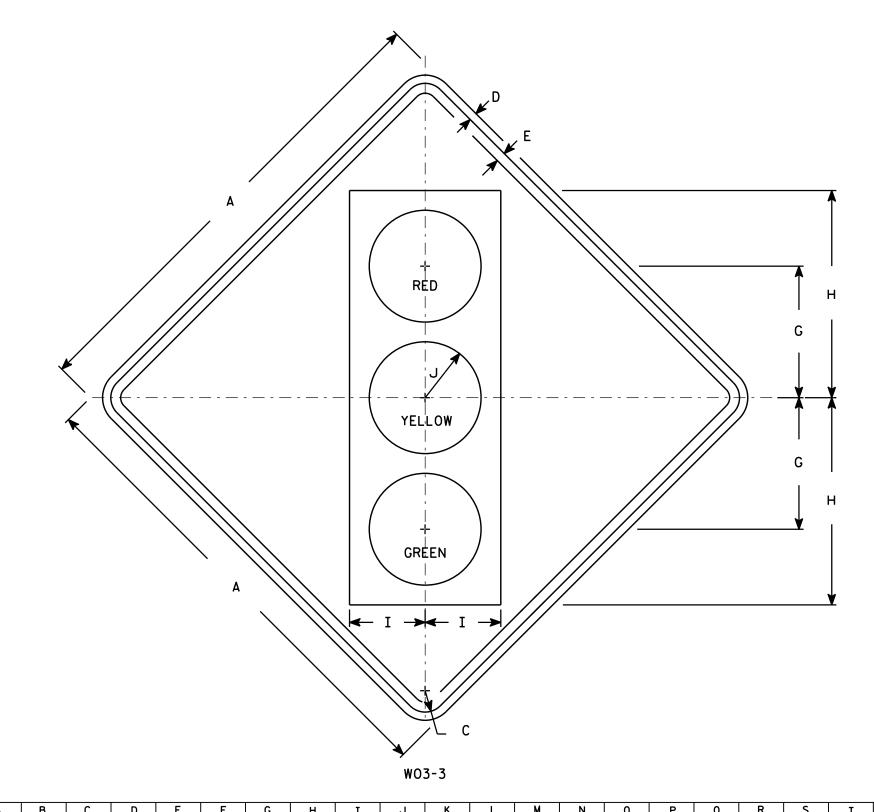
PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000



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

Background - Orange Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Symbol and border are non-reflective black. Top circle - Type H Reflectorized Red Center circle - Same as background Bottom circle - Type H Reflectorized Green

1																											
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 ¾	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0

COUNTY:

STANDARD SIGN WO3 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/20/13 PLATE NO. WO3-3.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W033.DGN

HWY:

PROJECT NO:

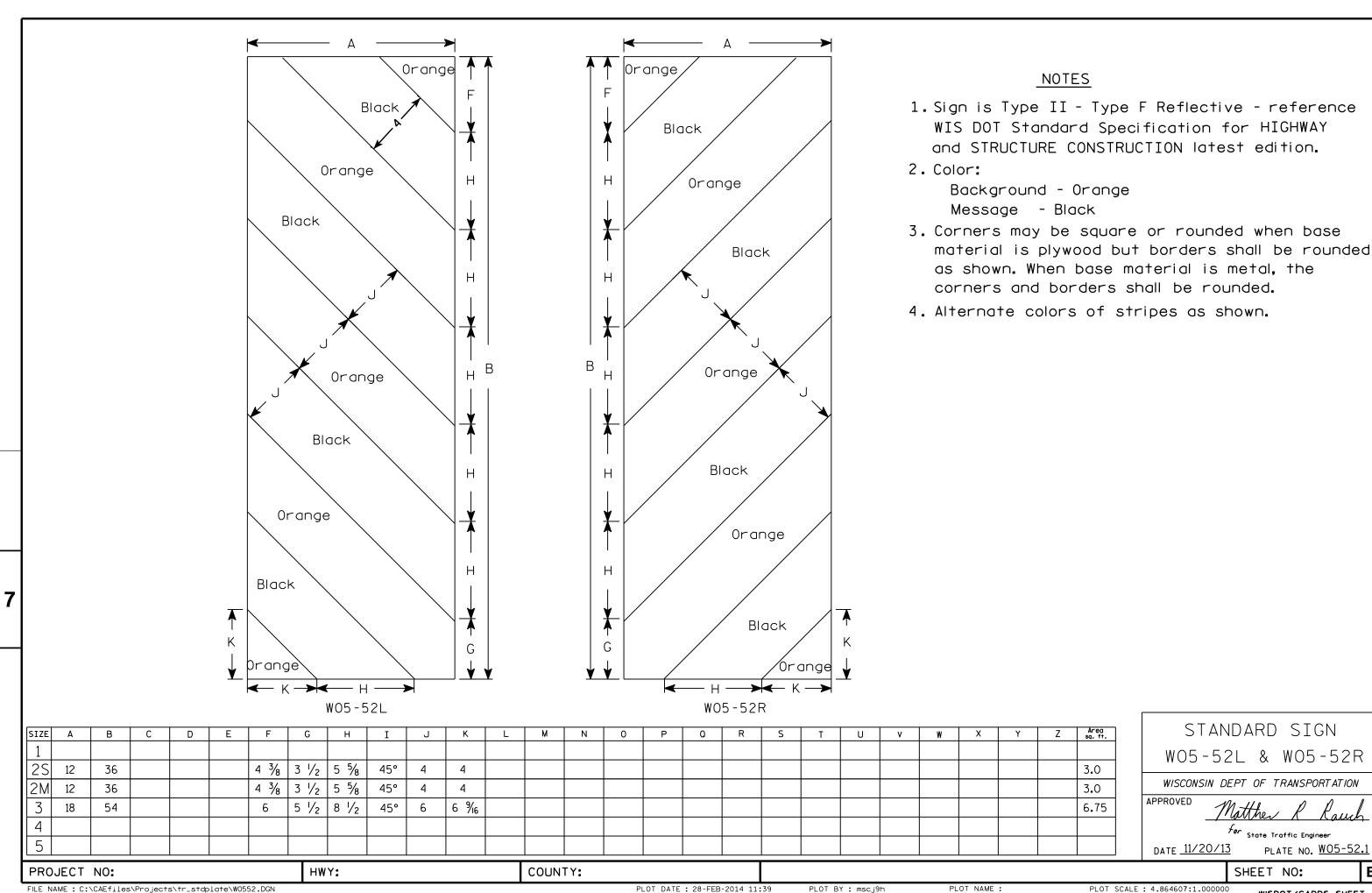
PLOT DATE: 20-NOV-2013 11:26

PLOT NAME :

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

PLOT SCALE: 7.296908:1.000000



PLOT NAME : PLOT SCALE: 4.864607:1.000000

- 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.

W057-52

\* See note 5

SIZE	Α	В		С	D	E	F	G	Н	I	J	К	L	M	N	0	Ρ	0	R	S	T	U	v	W	Х	Y	Z	Area sq. ft.
1	36	24	4 1	1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	13													6.0
2S	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	30	5 1	3/8	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	30	5 1	3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/20/13

SHEET NO:

HWY:

PROJECT NO:

PLOT BY: mscj9h

PLATE NO. W057-52.1

1580-29-70

# DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS-25
OPERATIONAL RATING: HS-42
MAXIMUM STANDARD OPERATING VEHICLE LOAD: 190KIPS

# GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

STAGE 1 AND STAGE 2 DESIGNATIONS FOR CONSTRUCTION ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT INDICATIVE OF THE ORDER IN WHICH WORK MUST BE PERFORMED. FIELD ENGINEER WILL DETERMINE ORDER IN WHICH WORK SHALL BE PERFORMED.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA PAVEMENT 4 MT 58-34 S".

THE PLAN QUANTITY FOR THE BID ITEM "HMA PAVEMENT 4 MT 58-34 S" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 3" PLACED ABOVE THE MILLED SURFACE. IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN  $\frac{1}{2}$ " CONTACT THE STRUCTURES DESIGN SECTION.

# TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
455.0605	TACK COAT	GAL	4
460.5224	HMA PAVEMENT 4 LT 58-28 S	TON	22
SPV.0090	RAILING STEEL TYPE "W" MODIFIED, B-50-61	LF	91

#### 40'-0" - OVERLAY (ASPHALTIC) LIMITS 111/4" CLEAR WIDTH 22'-0" 18'-0" STAGE 1 CONSTRUCTION STAGE 1 TRAFFIC 18'-0" 22'-0" STAGE 2 TRAFFIC STAGE 2 CONSTRUCTION 2'-0" | 2'-0" € U.S.H. 8 - EXIST. 4"± OVERLAY REMOVE 1" - 3" AVG. ASPHALTIC OVERLAY \_\_RAILING STEEL TYPE "W" MODIFIED, TYP. Ö 1'-5<sup>1</sup>/<sub>2</sub>" ORIGINAL SLAB -ASPHALTIC OVERLAY

2.00%

<del>(1000000000)</del>

49UJDU00U07

- REPLACE EXISTING W-RAIL WITH THRIE BEAM AND RAISE 4"±, SEE SHEET 2 FOR INFORMATION

END OF SLAB STA. 740+02.95

⊂⊈ E.ABUT. STA 740+02.62

\_B.F. E. ABUT.

BACK TO BACK OF ABUTMENTS 29'-6" OVERLAY (ASPHALTIC) LIMITS

- € U.S.H. 8

45'-61/2" - RAILING LIMITS

<u>PLAN</u>

41'-101/2"
OUT TO OUT OF SUPERSTRUCTURE

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

END OF SLAB STA. 739+73.28

€ W. ABUT. STA. 739+73.62

B.F. W. ABUT. -

111/4".

8'-0" (TYP.)

<del>(1600000000)</del>

LIST OF DRAWINGS

1. ASPHALTIC OVERLAY 2. RAILING TYPE W DETAILS

# STRUCTURES DESIGN CONTACTS: CARLA PRINCIPE (608) 261-6110

CARLA PRINCIPE (608) 261-6110 AARON BONK (608) 261-0261

REVISION

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER

T/25/16

DATE

TOWN/GHTY/VILLAGE
PRENTICE

DESIGN SPEC.

REHABILITATION N/A

DESIGNED CSP CK'D. ABS BY CSP CK'D. ABS

ASPHALTIC SHEET 1 OF 2

ASPHALTIC OVERLAY

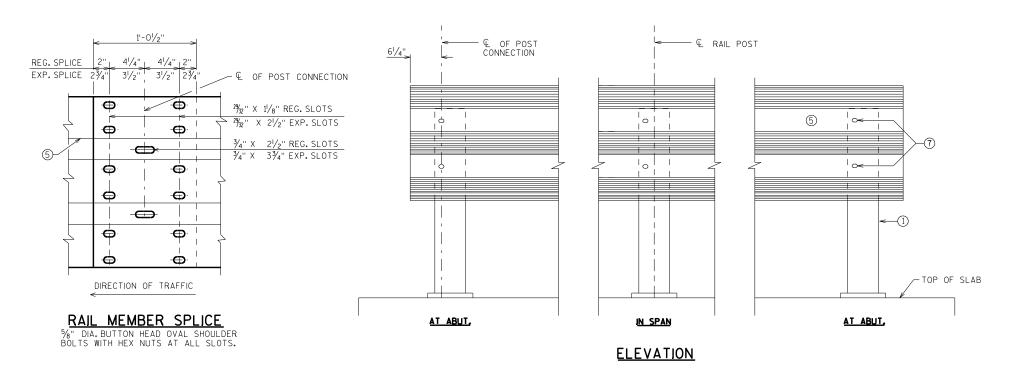
DATE: JUL 2016

NO. DATE

BY



1580-29-70



## LEGEND

- ① EXISTING W6 X 25. DRILL (2)  $\frac{3}{4}$ " DIA. HOLES FOR BOLT NO. 7
- ② EXISTING C8 X 11.5. WITH  $^{13}\!\%$  DIA. HOLES, ATTACH TO NO.4 WITH BOLTS NO. 8
- 3 EXISTING PLATE  $\frac{1}{2}$ " X 5 $\frac{3}{4}$ " X 6" WITH  $\frac{1}{4}$ " DIA. HOLE FOR BOLTS NO. 8
- 4 STRUCTURAL TUBE 6" X 4" X  $^3\!/\!\!\!6$ " WITH  $^{13}\!/\!\!\!6$ " DIA. HOLES, 6" LONG, ATTACH TO NO. 3 WITH BOLTS NO. 8
- 5 NEW THRIE BEAM. ATTACH TO NO. 1 WITH BOLTS NO. 7
- 6 1 $\frac{3}{4}$ "X 3" MOUNTING BOLT WASHER, EIGHT GAGE GALVANIZED.
- $\ensuremath{\mathfrak{T}}$  %" dia. Button head rail mounting bolt with round washer and nut, 2 per post.
- \$ DIA. X 2" LG. HEX. BOLTS WITH NUT AND TWO WASHERS EACH, 4 REQUIRED PER POST CONNECTION, 8 REQUIRED PER SPLICE CONNECTION.
- 9 EXISTING PLATE  $\frac{1}{2}$ " X 5 $\frac{3}{4}$ " X 11 $\frac{1}{2}$ " WITH 1 $\frac{1}{4}$ " DIA. HOLES FOR BOLTS NO. 8.

### NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE "W" MODIFIED, B-50-61" WHICH SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO RAISE ITEMS NO.2 & NO.5 BETWEEN THE LONGIT.LIMITS OF RAILING AS SHOWN IN ELEVATION.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

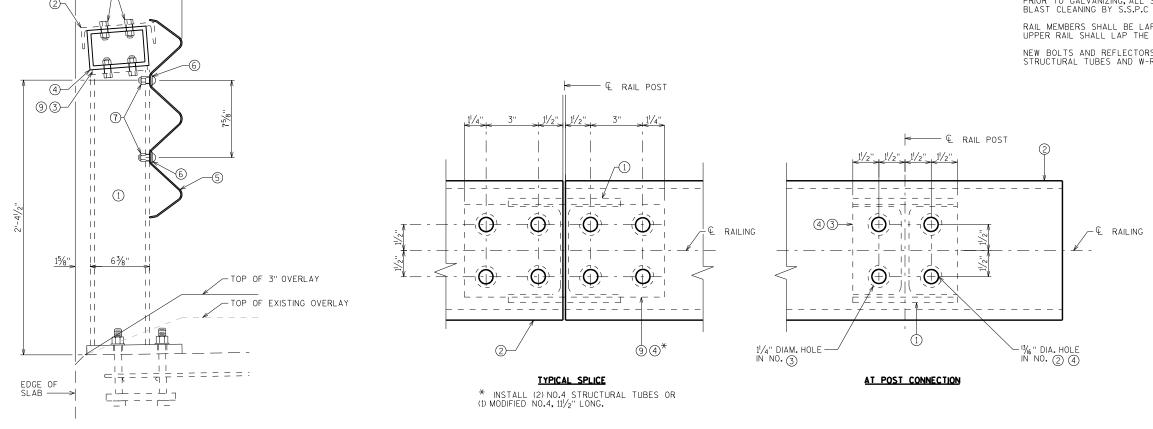
SHIM PLATES 6" X  $/\!\!/_6$ " X 6" MAY BE USED BETWEEN TOP OF POST AND CHANNEL MEMBER TO ACHIEVE VERTICAL ALIGNMENT.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING, ALL STEEL STRUCTURAL TUBE SHALL BE GIVEN A NO.6 BLAST CLEANING BY S.S.P.C SPECIFICATIONS.

RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND THE UPPER RAIL SHALL LAP THE LOWER RAIL.

NEW BOLTS AND REFLECTORS SHALL BE FURNISHED AND USED TO RESET THE STRUCTURAL TUBES AND W-RAIL.



SECTION THRU RAILING

CHANNEL MEMBER DETAILS

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-50-61

DRAWN
BY
CSP
PLANS
CKD.

RAILING TYPE W SHEET 2

DETAILS

SCALE = 0.333

			AREA	(SF)		INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOLUME (CY)		
	l [		UNUSABLE			UNUSABLE				EXPANDED	MASS	
		CUT	<b>PAVEMENT</b>	FILL	EBS	CUT	<b>PAVEMENT</b>	FILL	EBS	CUT	FILL	ORDINATE
STATION	DISTANCE		MATERIAL				MATERIAL			1.00	1.25	
		(1)	(2)								(3)	(4)
770+25	-	0	0	14	0	0	0	0	0	0	0	0
770+50	25	0	0	35	0	0	0	23	0	0	29	- 29
770+54	4	0	0	42	0	0	0	6	0	0	7	-36
770+75	21	0	0	27	0	0	0	27	0	0	33	- 69
771+00	25	0	0	7	0	0	0	15	0	0	19	-88
771+25	25	0	0	27	0	0	0	15	0	0	19	-108
771+50	25	0	0	82	0	0	0	50	0	0	63	-170
771+64	14	0	0	124	0	0	0	53	0	0	67	-237
771+75	11	0	0	109	0	0	0	47	0	0	59	-296
772+00	25	0	0	76	0	0	0	86	0	0	107	-403
772+14	14	0	0	71	0	0	0	38	0	0	47	-451
772+25	11	0	0	84	0	0	0	32	0	0	39	-490
772+50	25	0	0	0	0	0	0	39	0	0	49	-539
775+25	275	0	0	0	0	0	0	0	0	0	0	-539
775+50	25	0	0	59	0	0	0	27	0	0	34	-573
775+59	9	0	0	65	0	0	0	21	0	0	26	-599
775+75	16	0	0	55	0	0	0	36	0	0	45	-644
776+00	25	0	0	69	0	0	0	57	0	0	72	-716
776+09	9	0	0	74	0	0	0	24	0	0	30	-746
776+25	16	0	0	50	0	0	0	37	0	0	46	-792
776+50	25	0	0	22	0	0	0	33	0	0	42	-833
					TOTALS:	0	0	667	0			

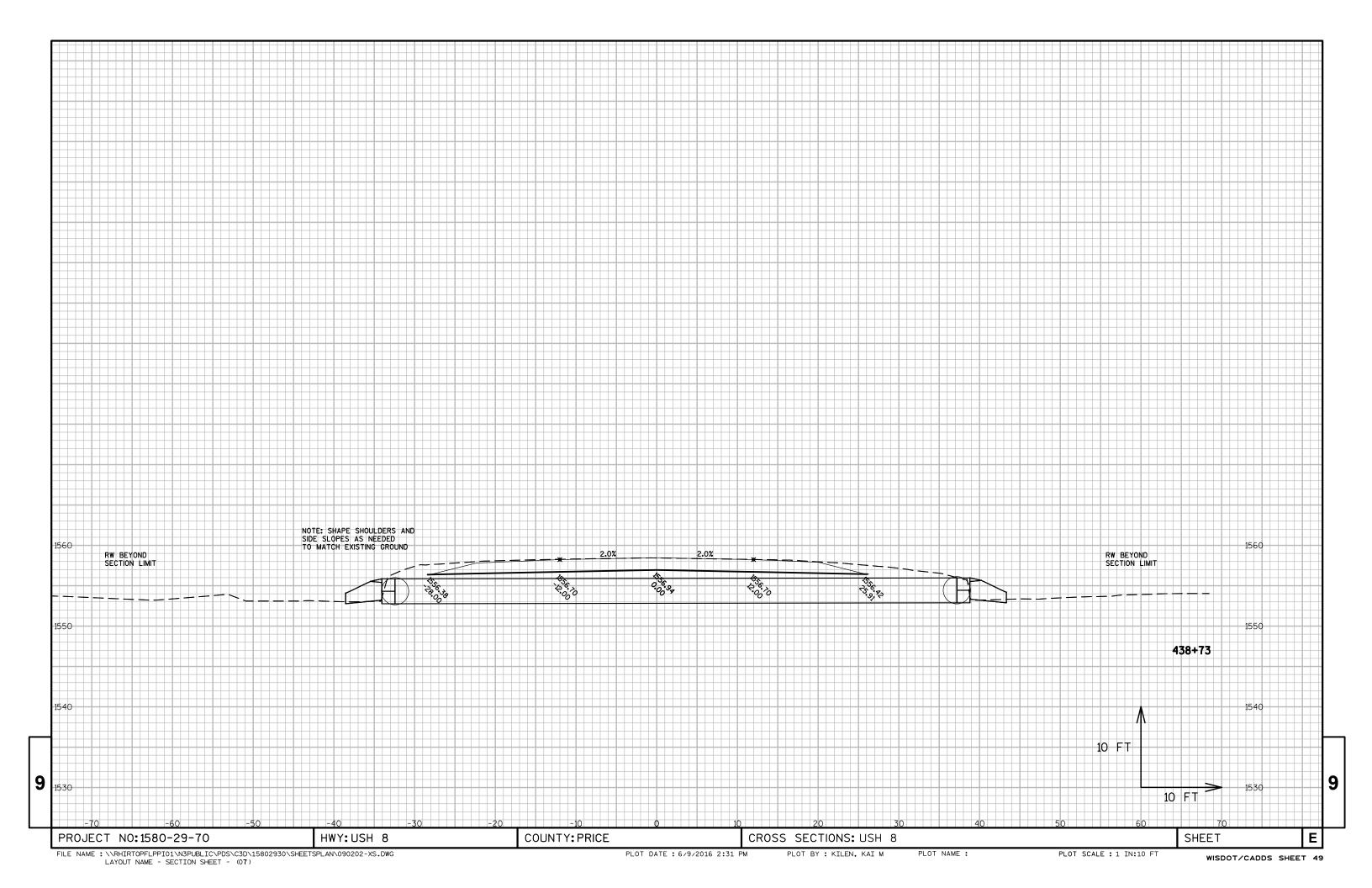
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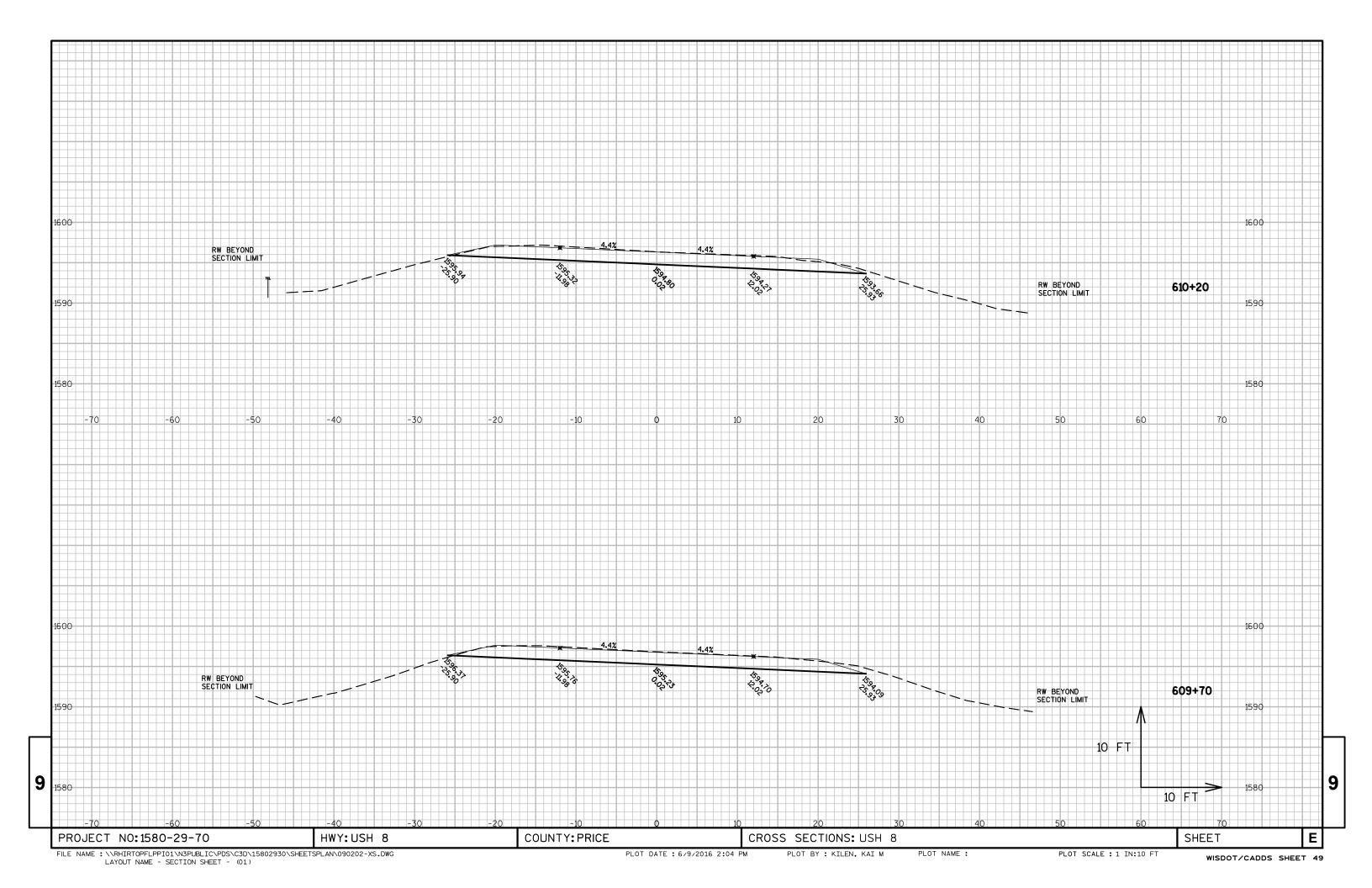
- 1) COMMON EXCAVATION INCLUDES UNUSABLE PAVEMENT MATERIAL
- 2) UNUSABLE PAVEMENT MATERIAL DOES NOT APPEAR IN THE CROSS SECTIONS
- 3) EXPANDED FILL = UNEXPANDED FILL \* FILL FACTOR
- 4) MASS ORDINATE = CUT (FILL \* FILL FACTOR)

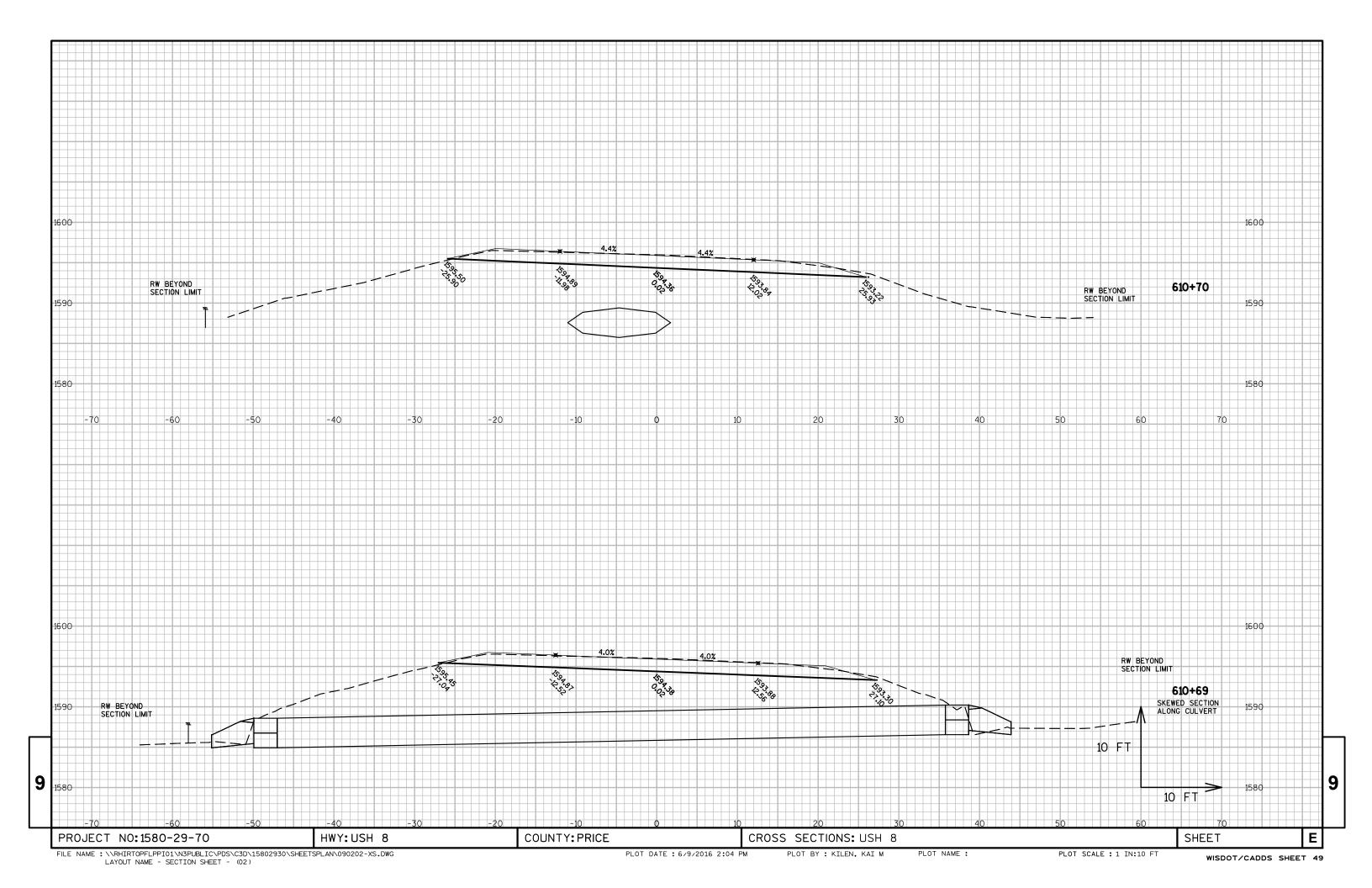
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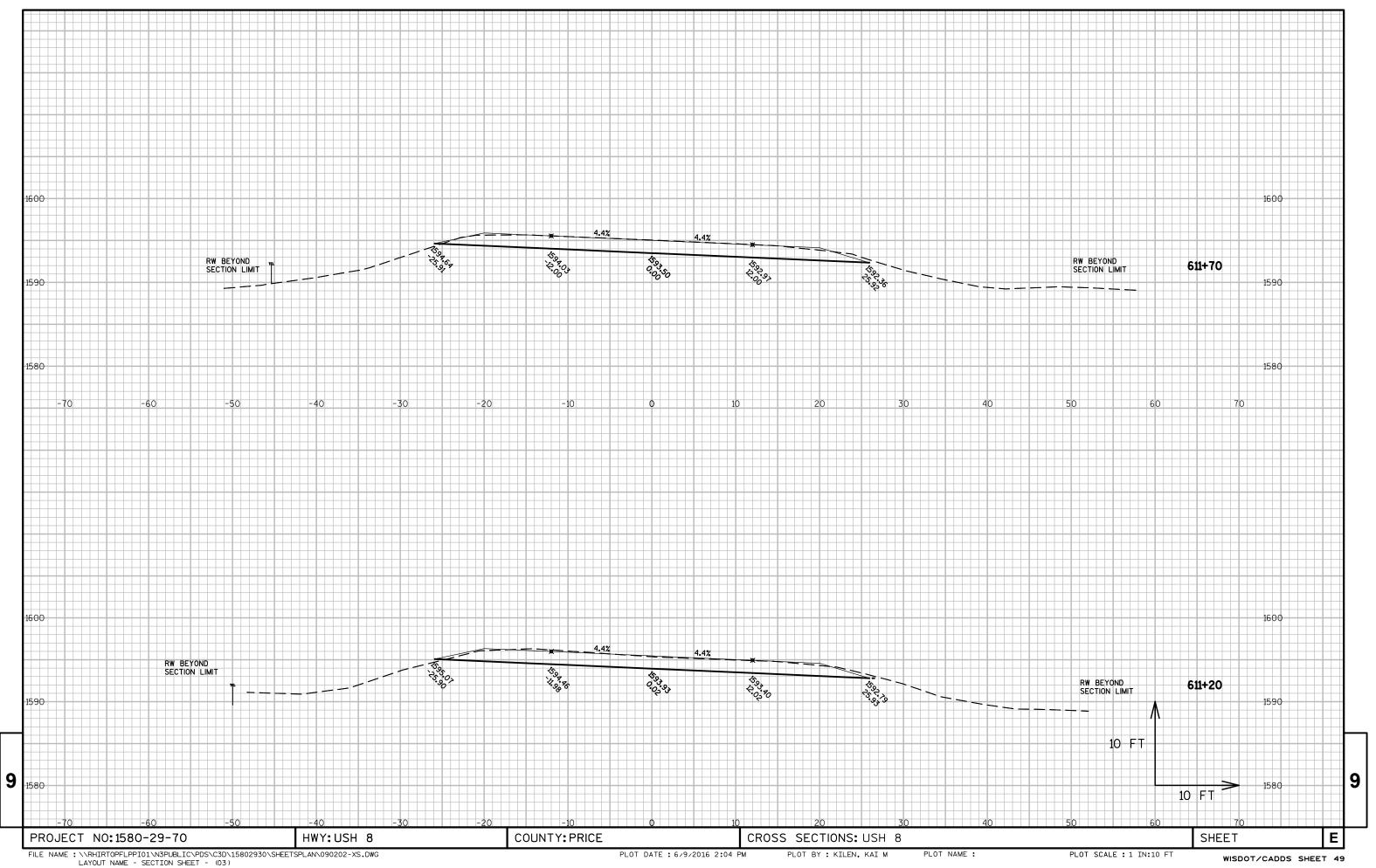
9

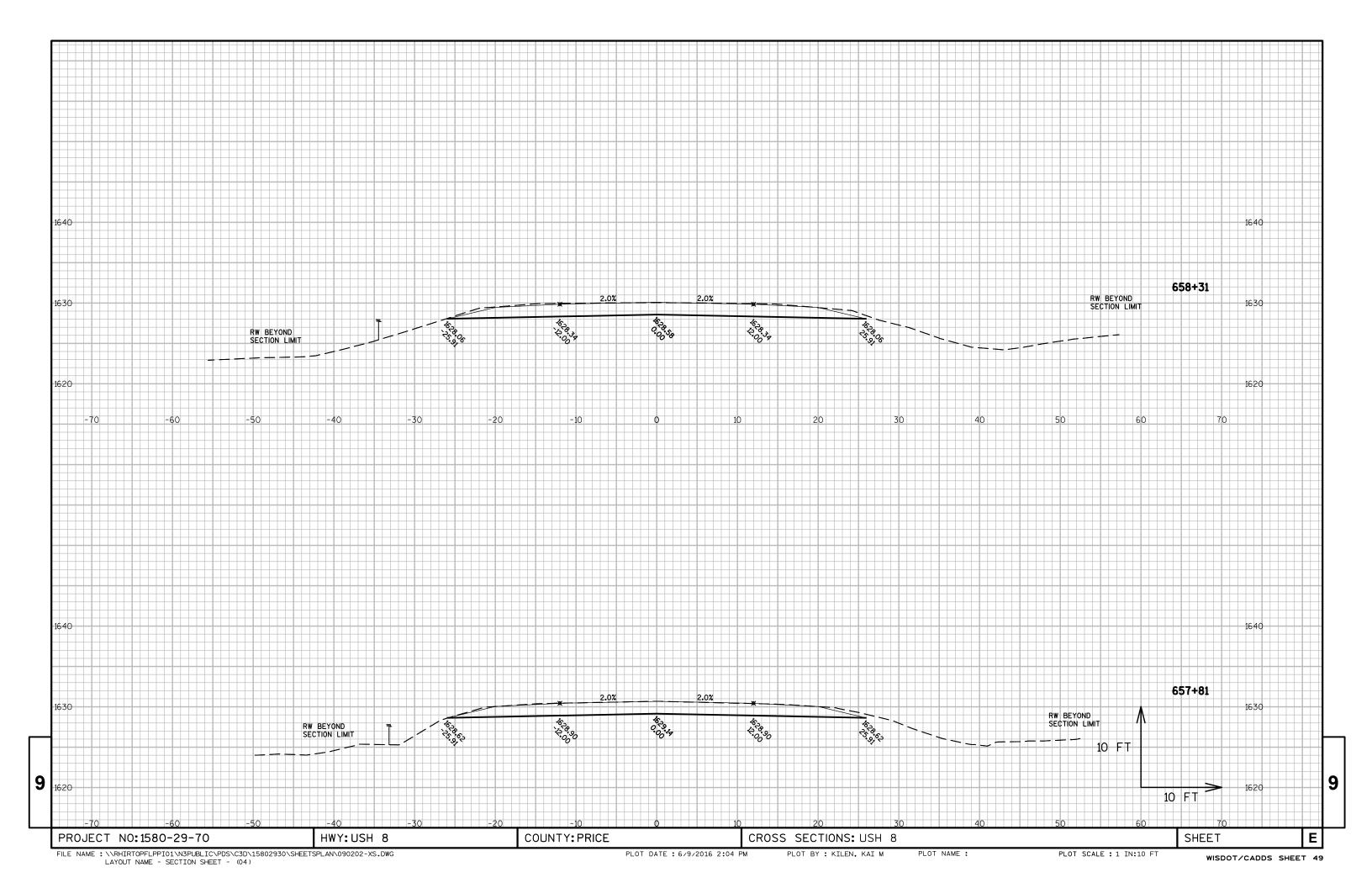
PROJECT NO:1580-29-70 HWY:USH 8 COUNTY:PRICE EARTHWORK QUANTITIES SHEET **E** 

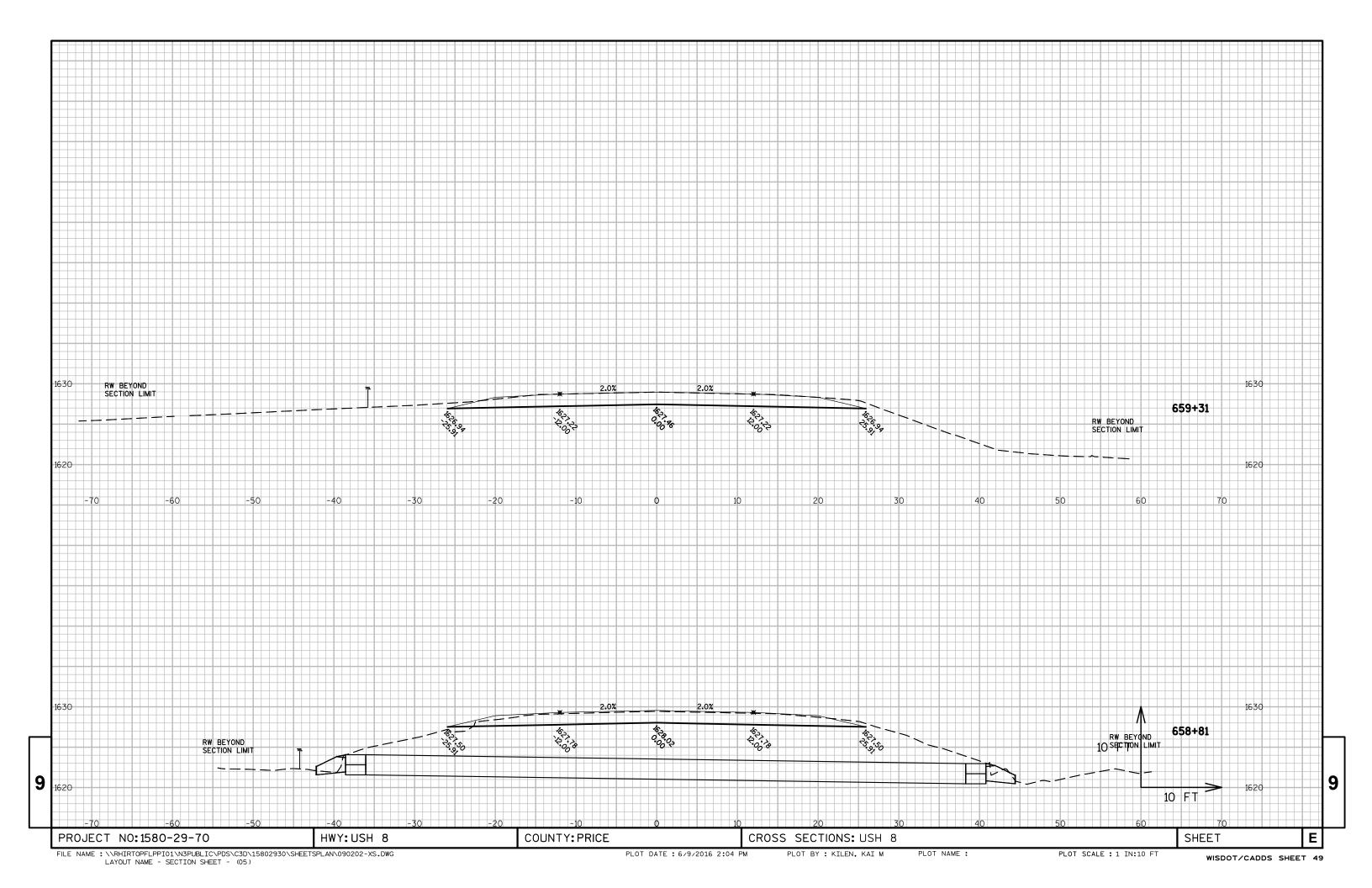


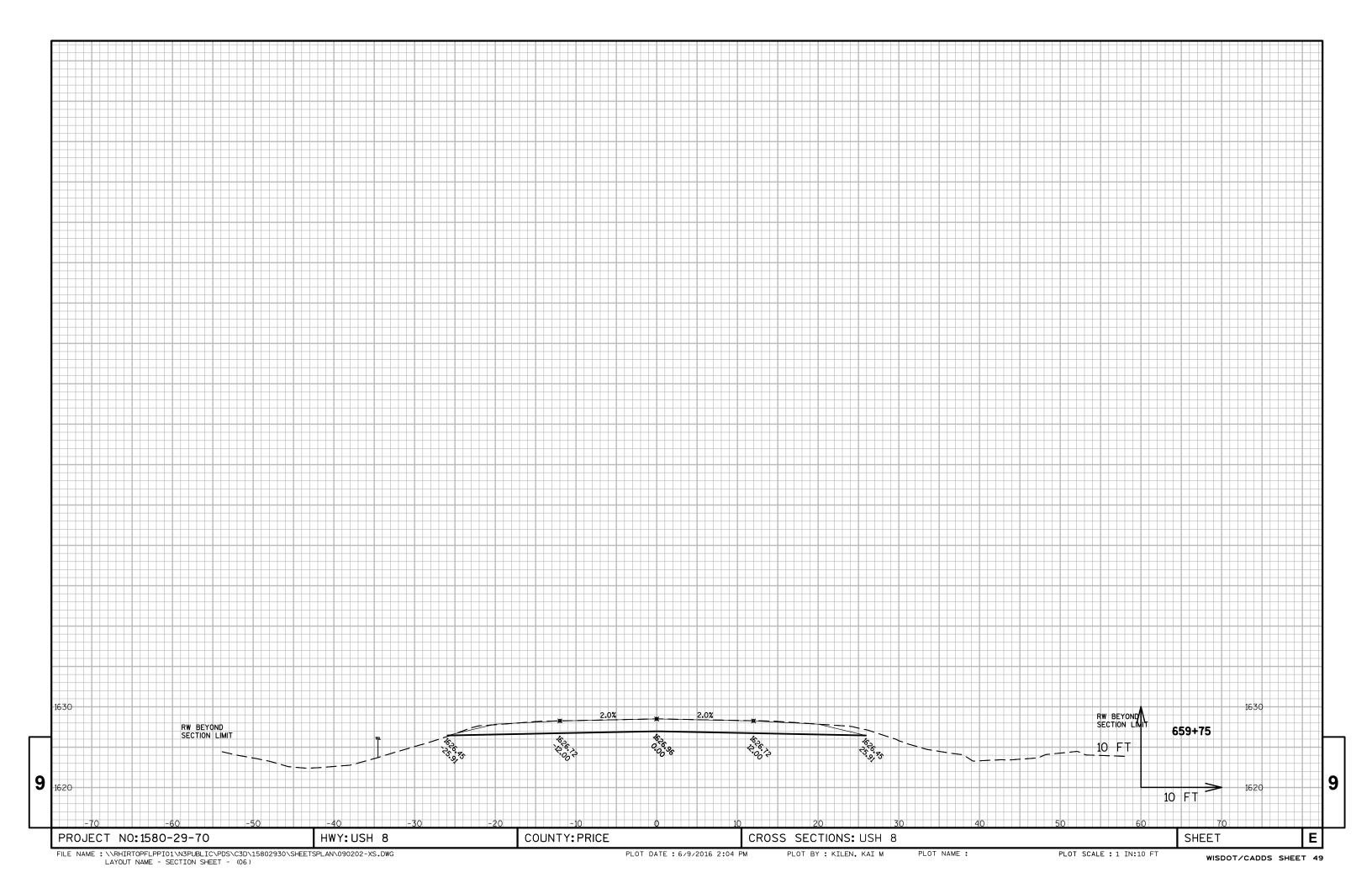


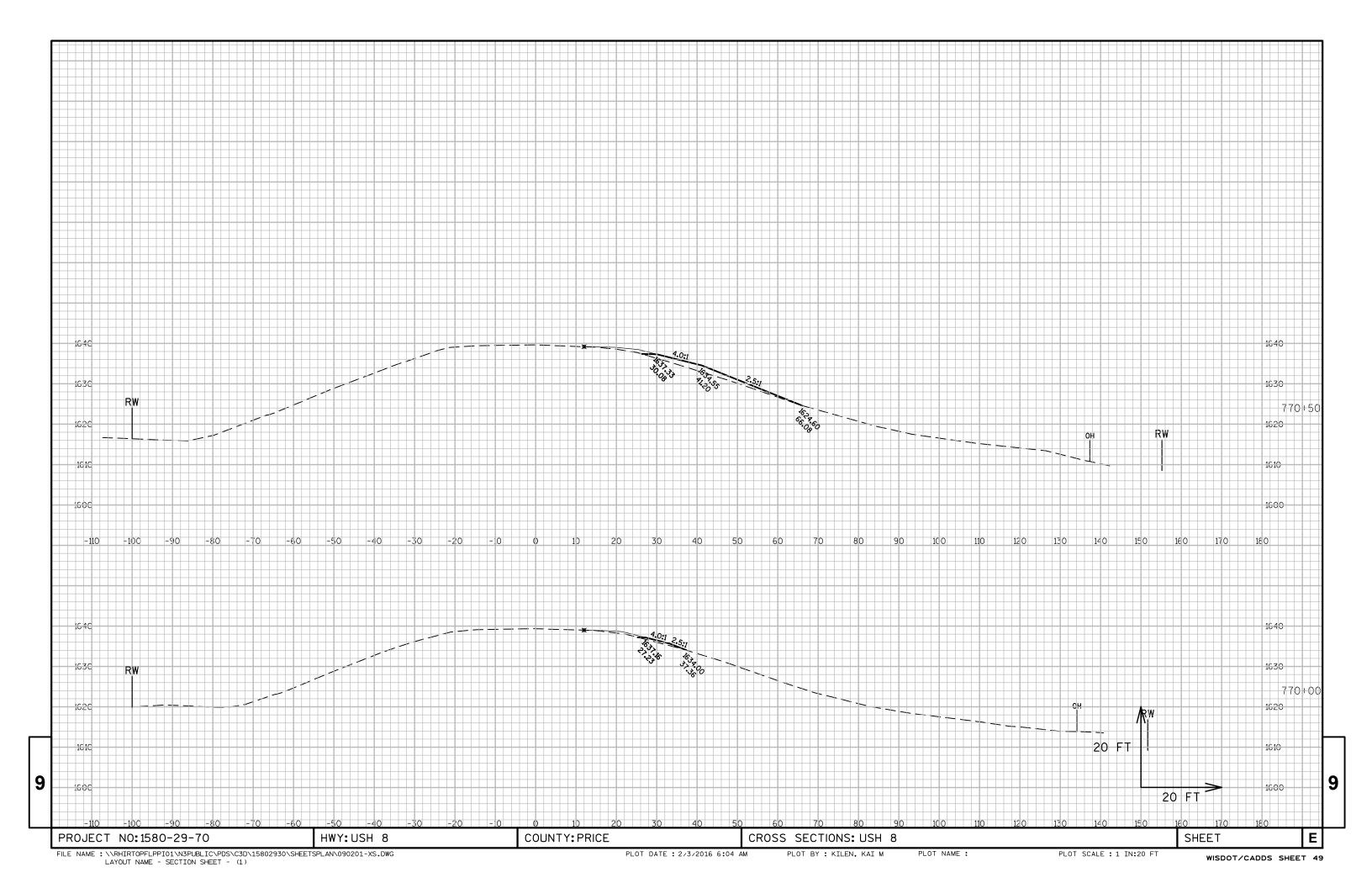


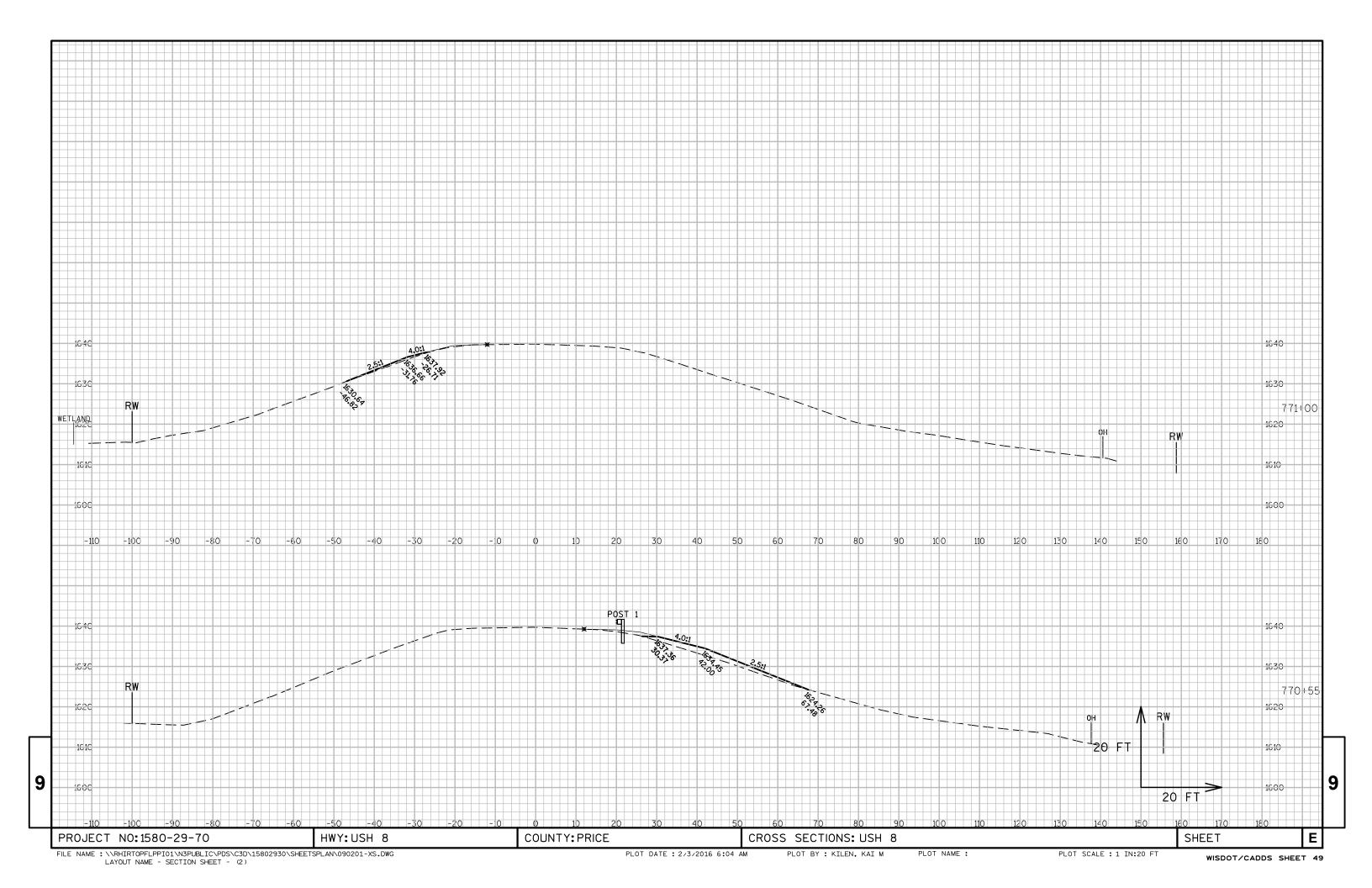


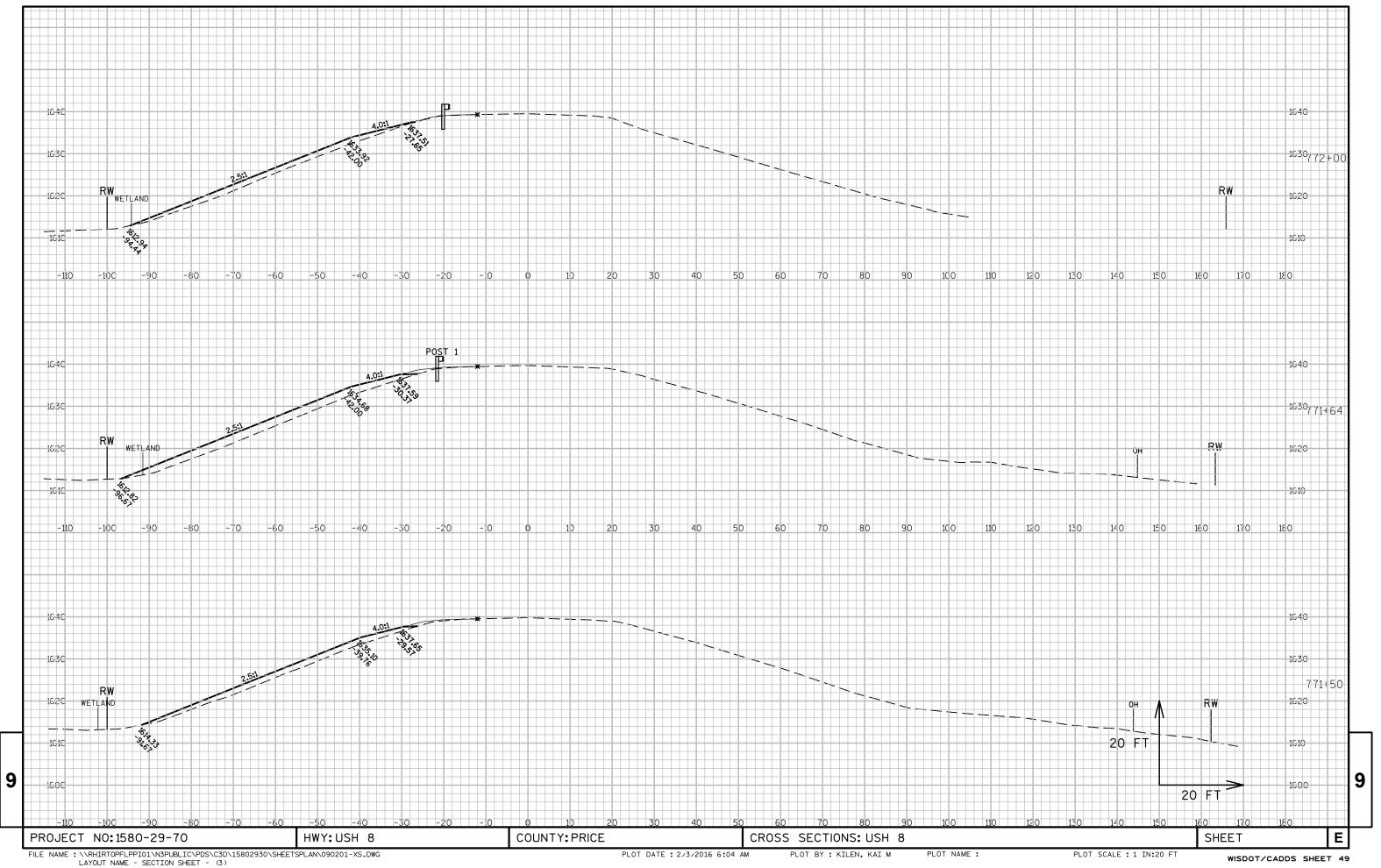


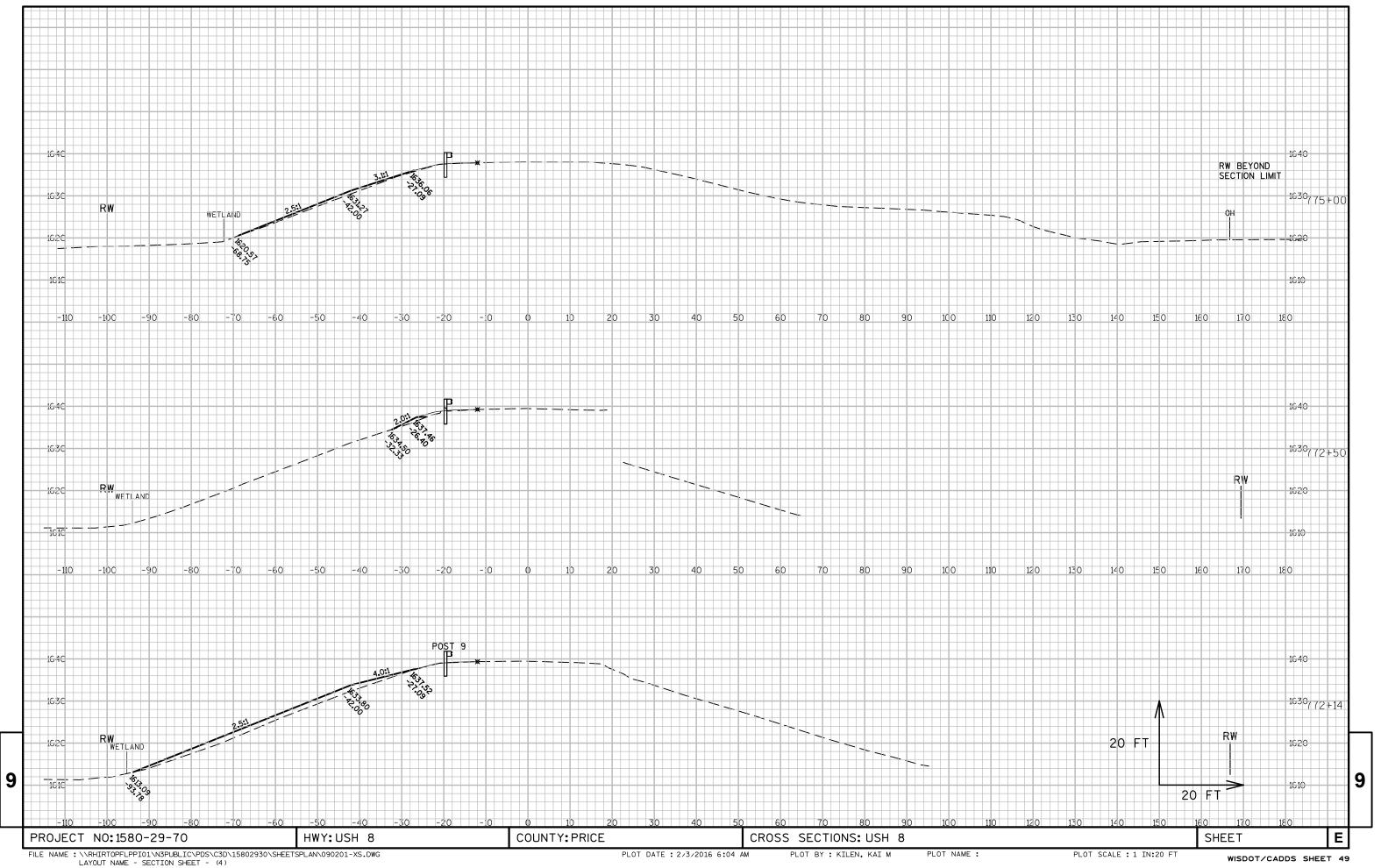


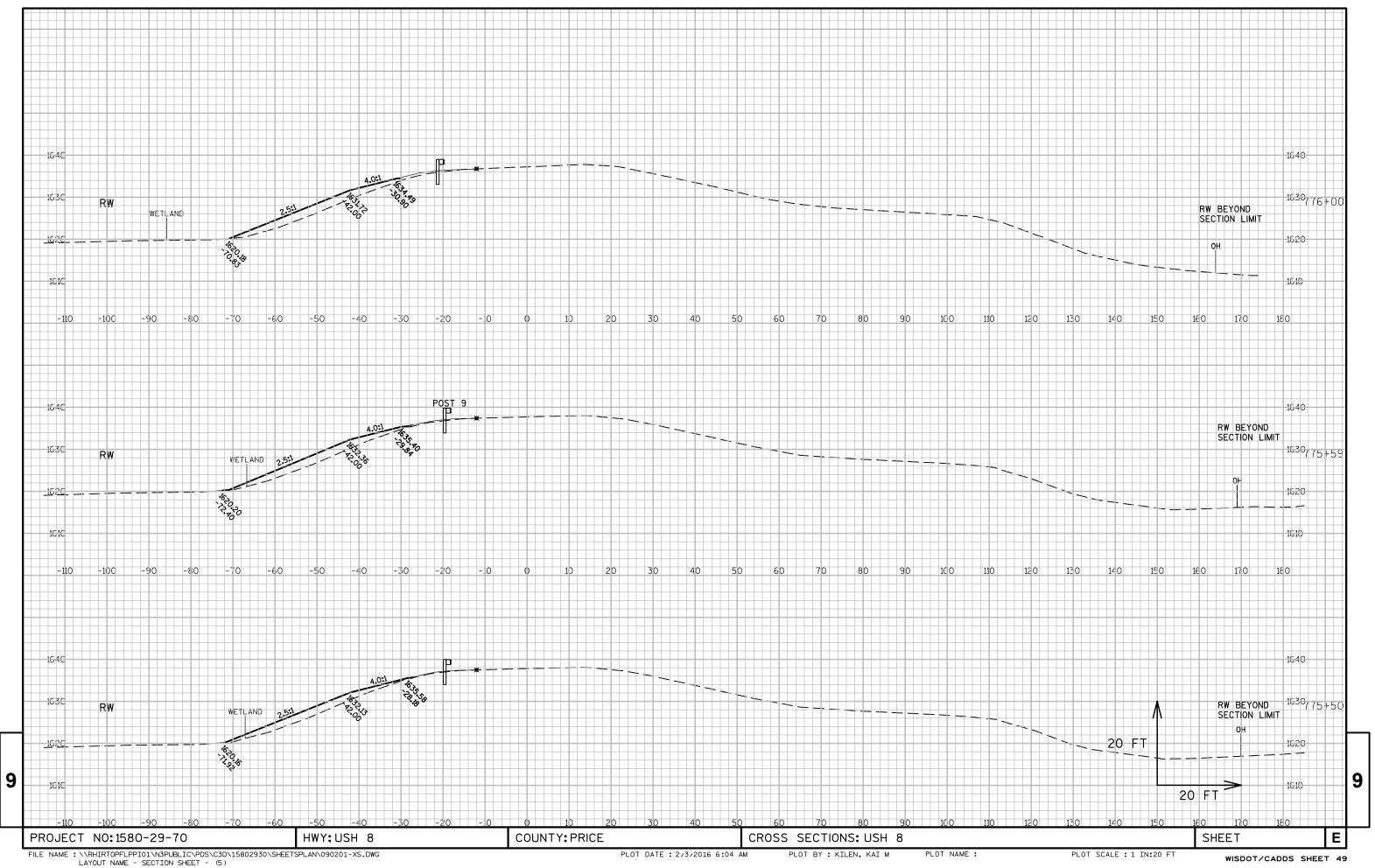


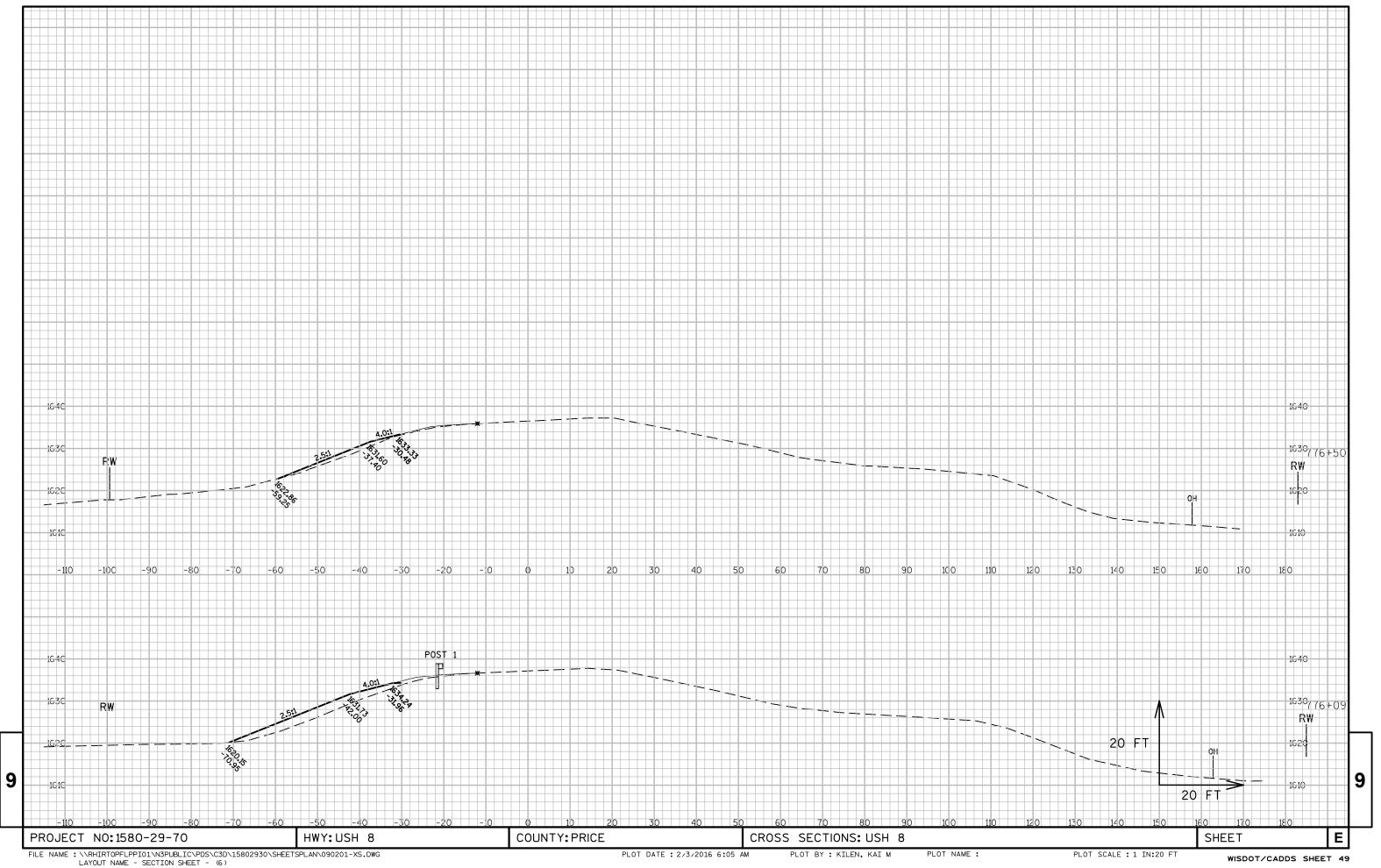


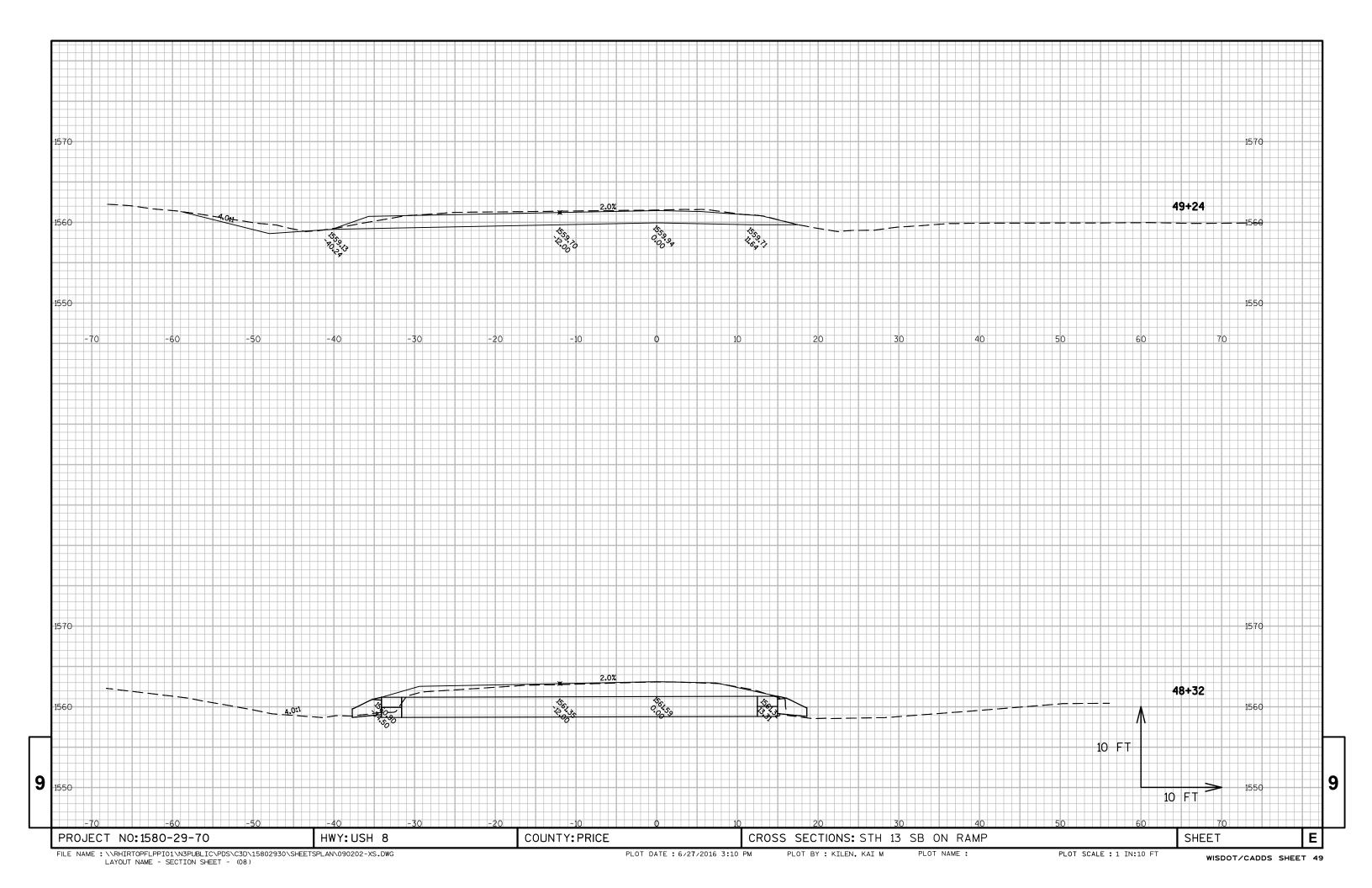


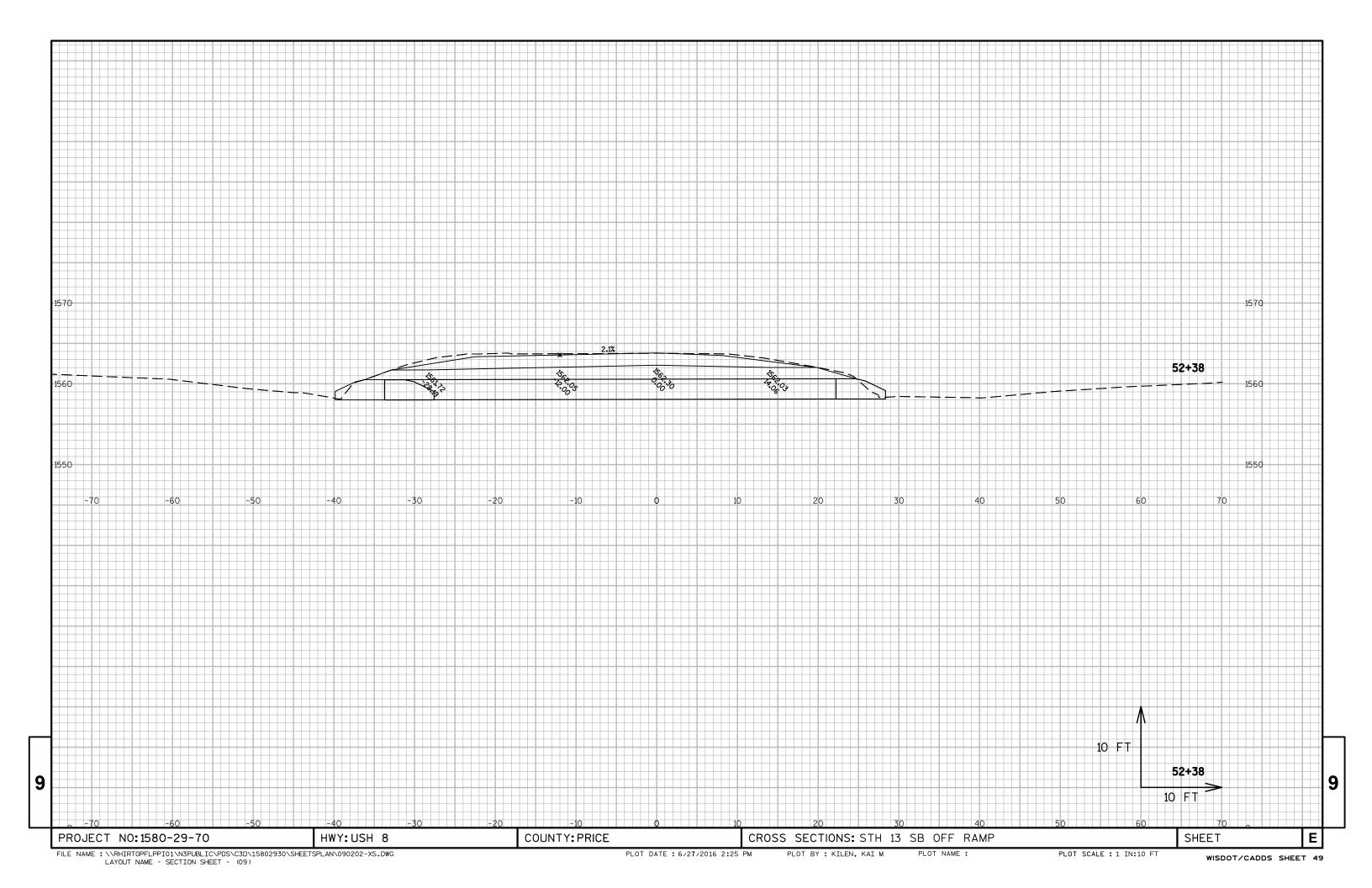


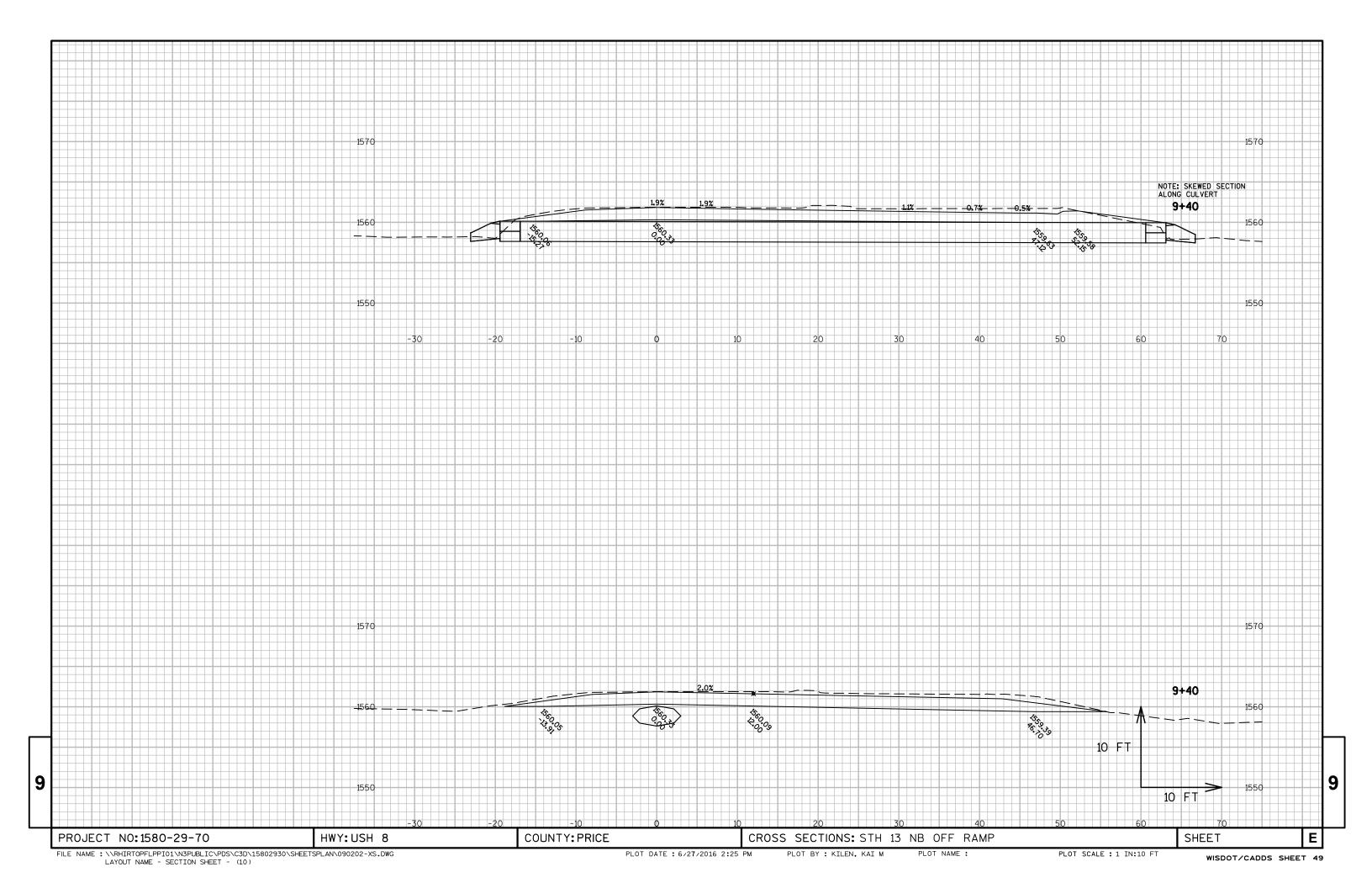


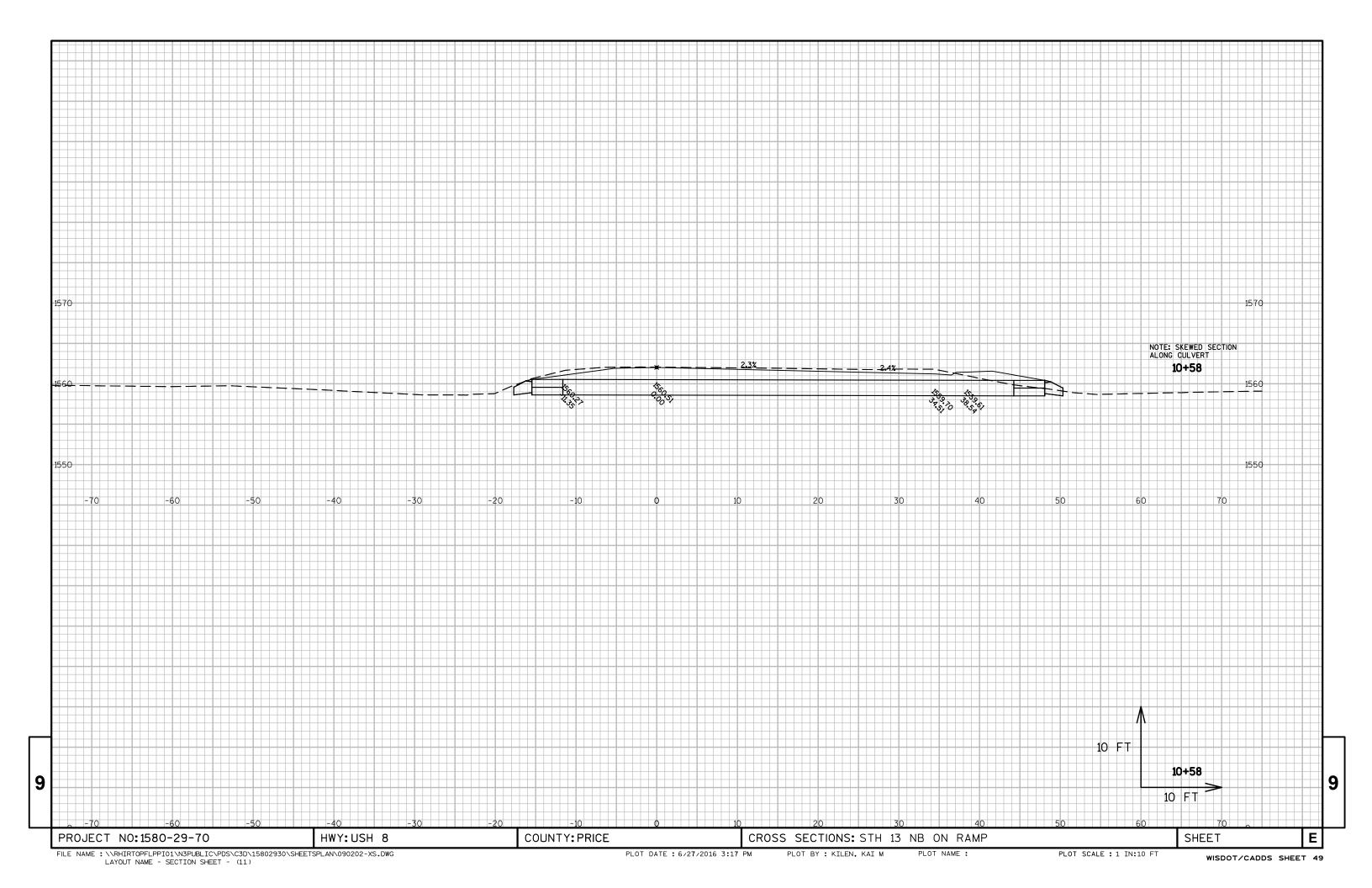












Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov