MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

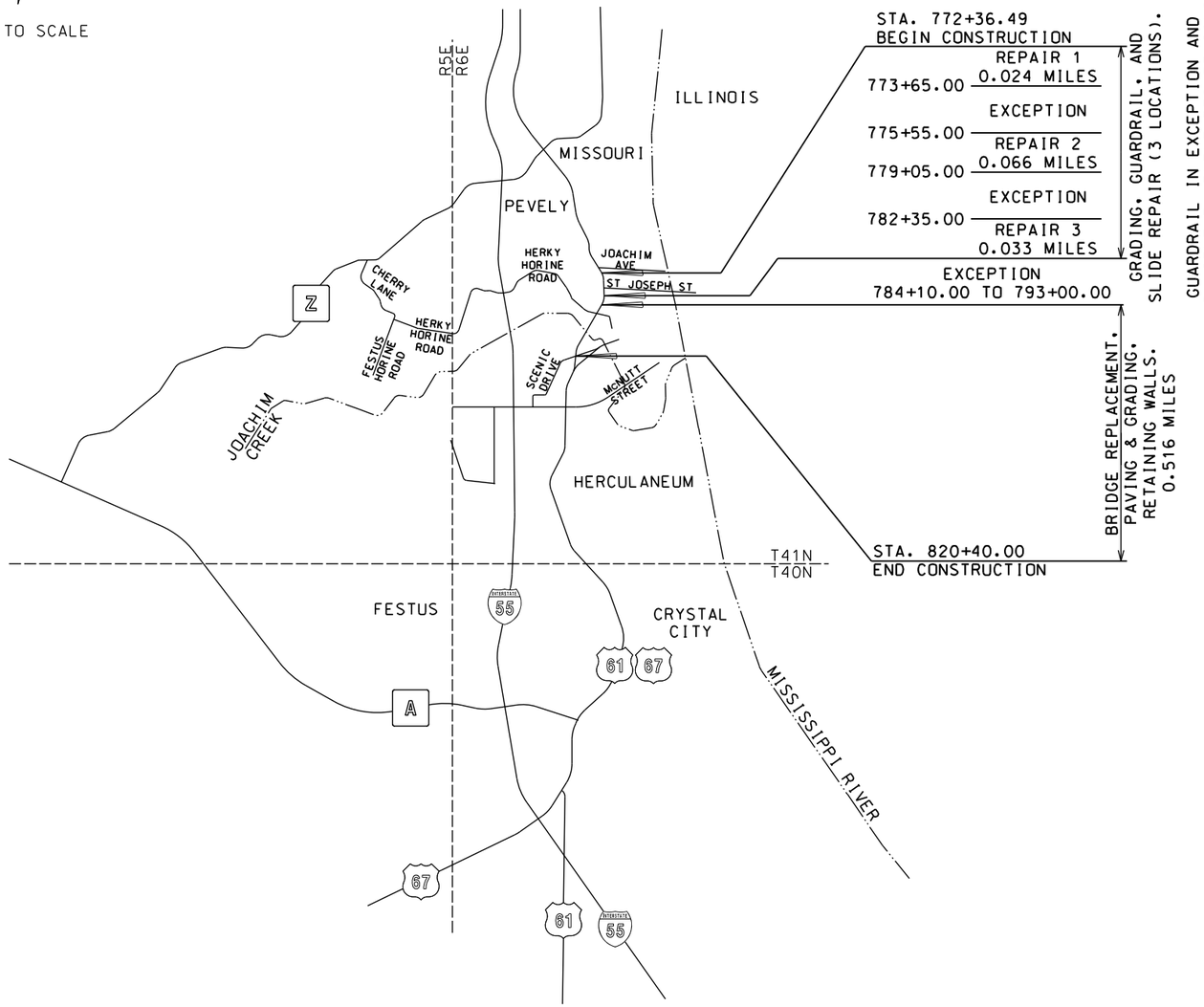
PLANS FOR PROPOSED STATE HIGHWAY

JEFFERSON COUNTY



SECTION 19, T. 41 N., R. 6 E.

NOT TO SCALE



DESIGN DESIGNATION

US61/67
A.A.D.T. - 2016 = 7,731
A.A.D.T. - 2036 = 13,142
T = 3%
V = 45 M.P.H.
D = 51.2%
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

HERKY-HORINE ROAD
A.A.D.T. = 428
T = 13%
V = 35 M.P.H.
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

WALL STREET
V = 20 M.P.H.
FUNCTIONAL CLASSIFICATION - LOCAL

NORMAL RIGHT OF WAY WILL BE ACQUIRED FOR THIS PROJECT

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CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	~~FO~~
OVERHEAD CABLE TV	-OTV-	~~OTV~~
UNDERGROUND CABLE TV	-UTV-	~~UTV~~
OVERHEAD TELEPHONE	-OT-	~~OT~~
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
SANITARY SEWER	-S-	~~S~~
STORM SEWER	-SS-	~~SS~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

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LENGTH OF PROJECT

SLIDE REPAIR AREA 1			
BEGINNING OF PROJECT	STA.	772+36.49	
END OF PROJECT	STA.	773+65.00	
APPARENT LENGTH		128.51	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
SLIDE REPAIR AREA 2			
BEGINNING OF PROJECT	STA.	775+55.00	
END OF PROJECT	STA.	779+05.00	
APPARENT LENGTH		350.00	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
SLIDE REPAIR AREA 3			
BEGINNING OF PROJECT	STA.	782+35.00	
END OF PROJECT	STA.	784+10.00	
APPARENT LENGTH		175.00	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
U.S. 61/67			
BEGINNING OF PROJECT	STA.	793+00.00	
END OF PROJECT	STA.	820+40.00	
APPARENT LENGTH		2,740.00	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
WALL STREET			
BEGINNING OF PROJECT	STA.	10+00.00	
END OF PROJECT	STA.	11+50.00	
APPARENT LENGTH		150.00	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
HERKY-HORINE ROAD			
BEGINNING OF PROJECT	STA.	20+30.00	
END OF PROJECT	STA.	25+00.00	
APPARENT LENGTH		470.00	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
TOTAL CORRECTIONS		0.0	FEET
NET LENGTH OF PROJECT		4,008.51	FEET
STATE LENGTH		0.759	MILES

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004008786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/28/2025
ROUTE: 61/67
STATE: MO
DISTRICT: SL
SHEET NO.: 1
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

DESCRIPTION	DATE

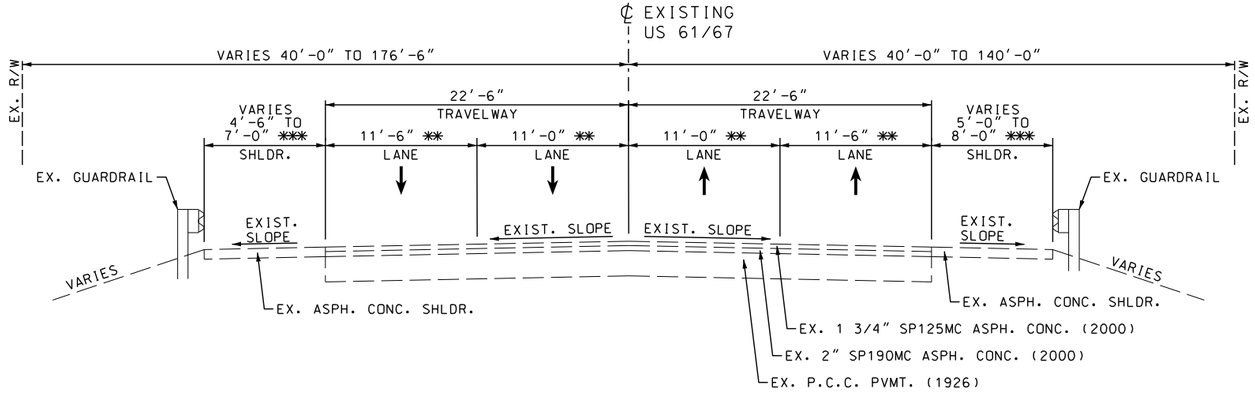
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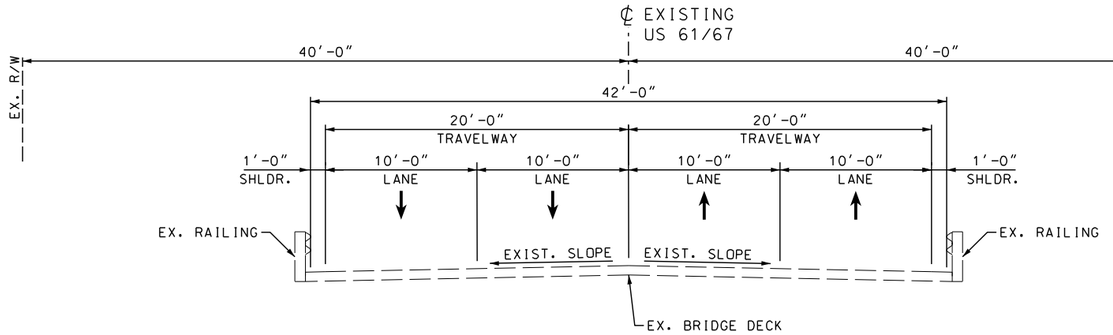
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EXISTING TYPICAL SECTION ON TANGENT
US 61/67
STA. 793+00 TO STA. 808+04
STA. 810+85 TO STA. 820+40
** LANE WIDTHS NARROW TO 10'-0" AT EXISTING BRIDGE
*** SHOULDER WIDTHS NARROW TO 1'-0" AT EXISTING BRIDGE



EXISTING BRIDGE TYPICAL SECTION ON TANGENT
US 61/67
STA. 808+04 TO STA. 810+85

THE DESIGN GUIDE FOR THE WIDTH OF RIGHT OF WAY FOR THIS PROJECT WILL BE 120 FEET. MORE OR LESS RIGHT OF WAY AS WELL AS OTHER PROPERTY INTERESTS MAY BE SECURED TO SATISFY THE REQUIREMENTS OF THE DESIGN FEATURES OF THE PROJECT.

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MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

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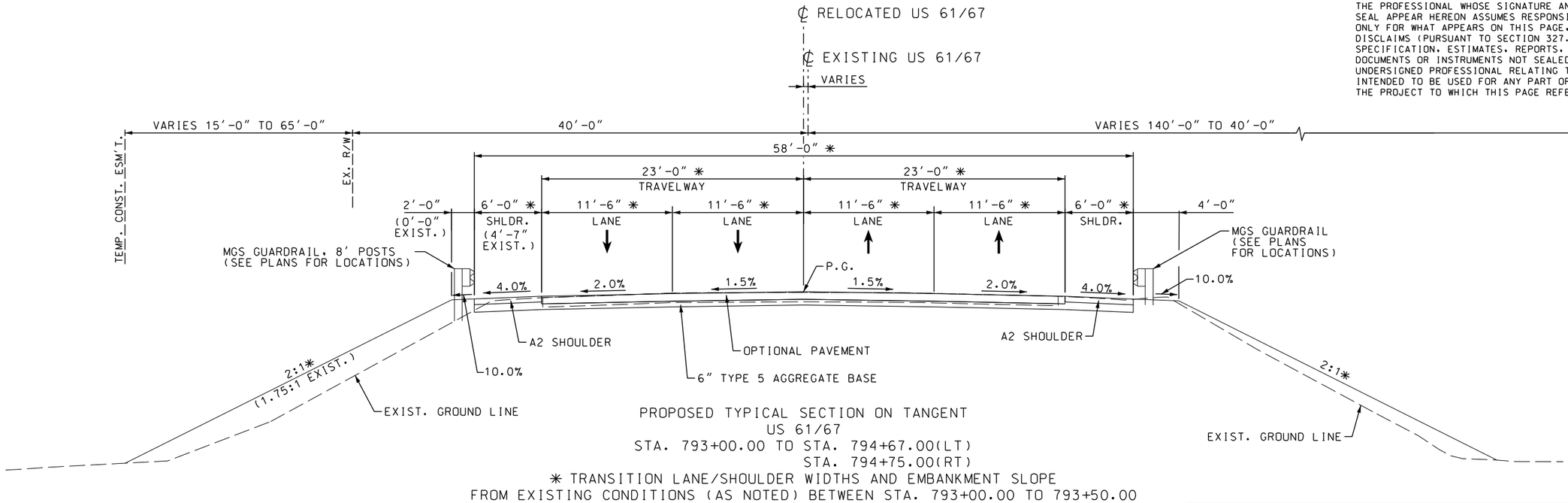
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DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

TYPICAL SECTION
SHEET 1 OF 9

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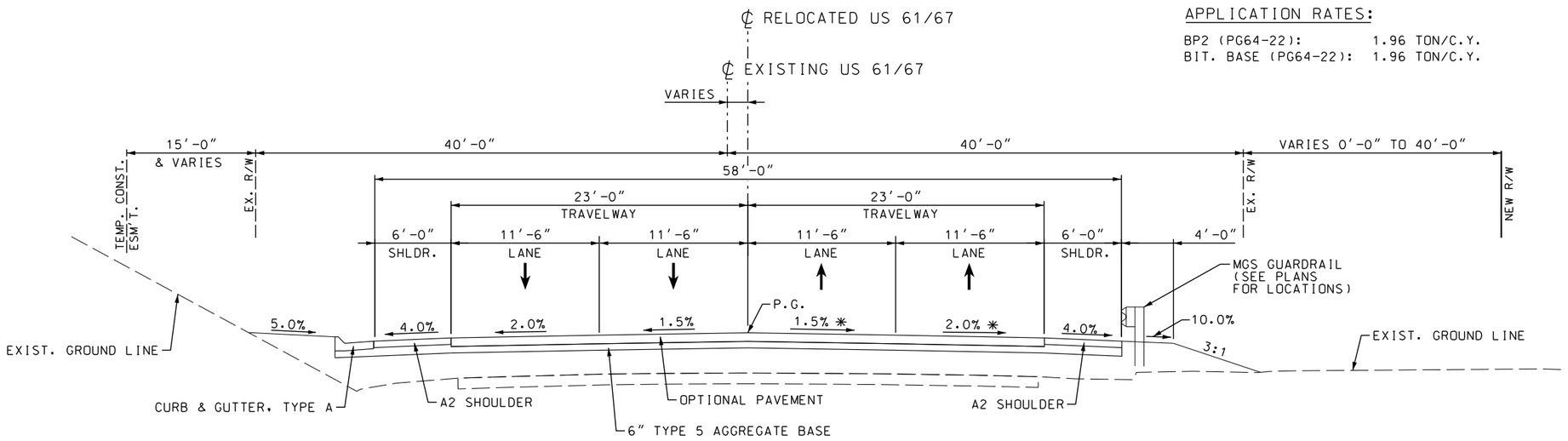


PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 793+00.00 TO STA. 794+67.00(LT)
STA. 794+75.00(RT)
* TRANSITION LANE/SHOULDER WIDTHS AND EMBANKMENT SLOPE
FROM EXISTING CONDITIONS (AS NOTED) BETWEEN STA. 793+00.00 TO 793+50.00

OPTIONAL PAVEMENT	
HMA DESIGN	P.C.C.P. DESIGN
1 3/4″ BP2 (PG64-22) 8 1/4″ BIT. BASE (PG64-22)	8″ P.C.C.P. WITH 15′ JOINTS & 1 1/4″ DOWELS

APPLICATION RATES:

BP2 (PG64-22): 1.96 TON/C.Y.
BIT. BASE (PG64-22): 1.96 TON/C.Y.



PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 794+67.00(LT) TO STA. 796+89.02(LT)
STA. 794+75.00(RT) STA. 797+19.55(RT)

TYPICAL SECTION
SHEET 2 OF 9

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MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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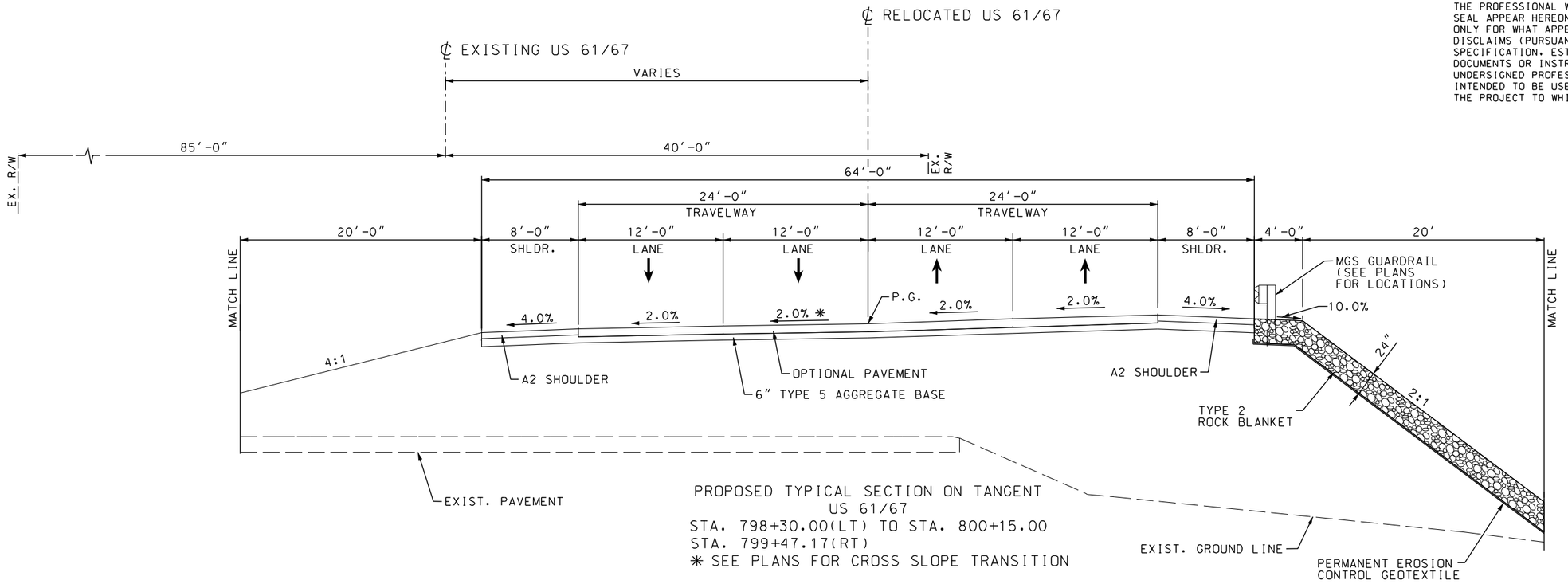
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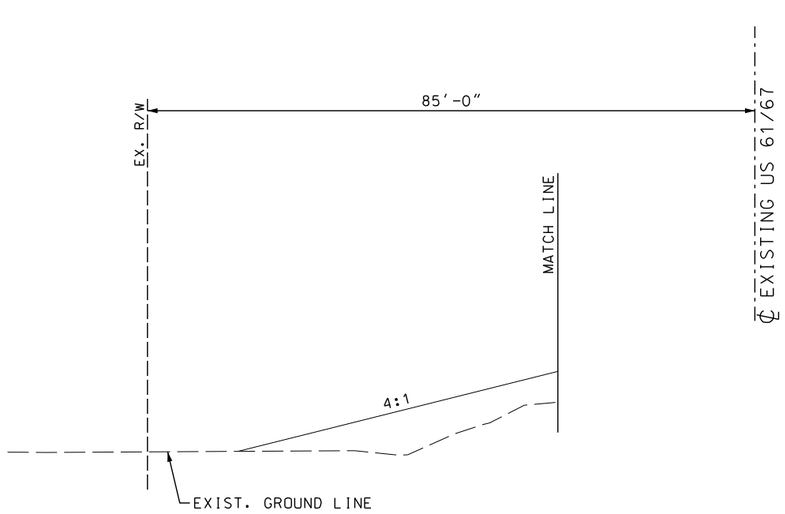
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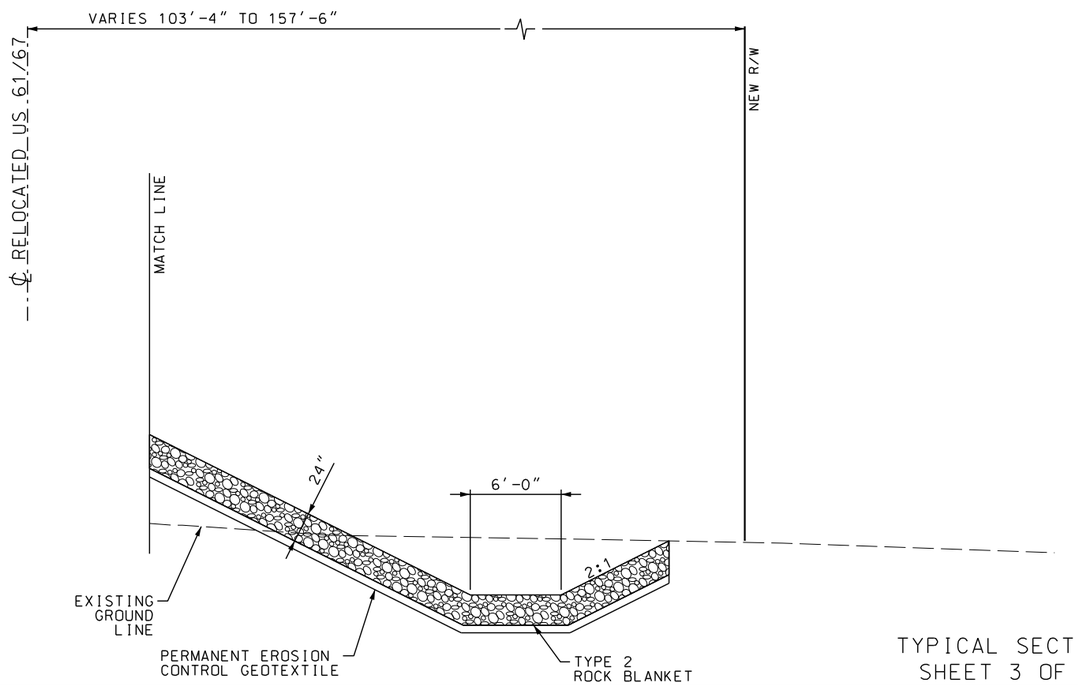
LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 798+30.00(LT) TO STA. 800+15.00
STA. 799+47.17(RT)
* SEE PLANS FOR CROSS SLOPE TRANSITION





TYPICAL SECTION
SHEET 3 OF 9

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MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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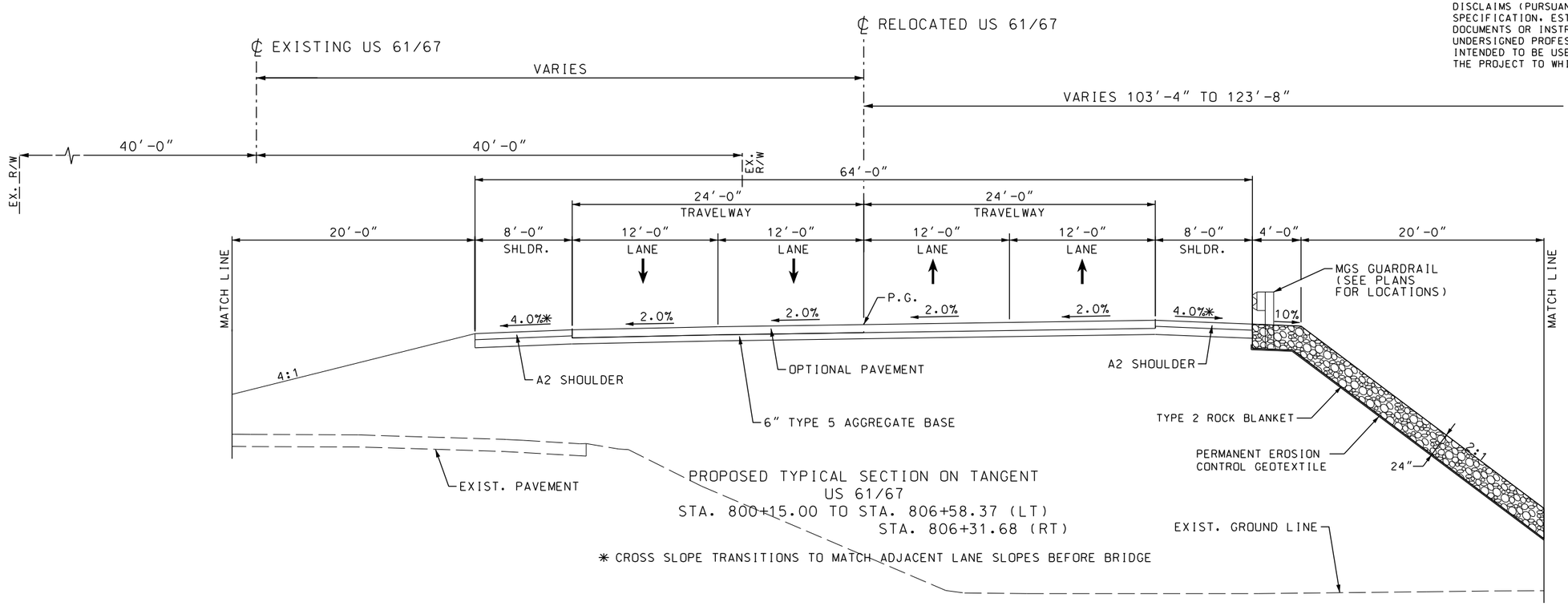
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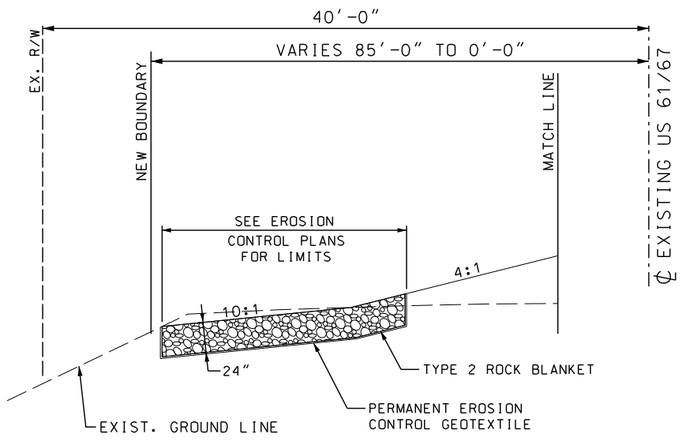
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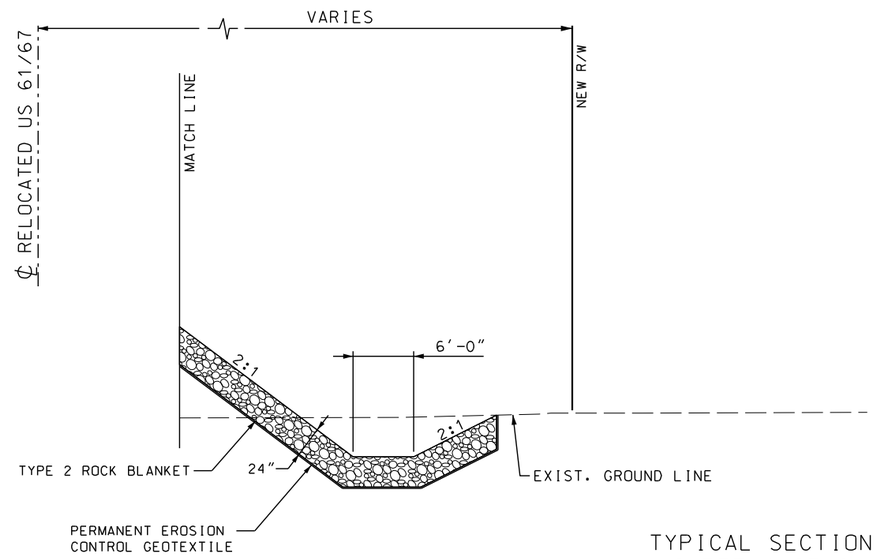
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PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 800+15.00 TO STA. 806+58.37 (LT)
STA. 806+31.68 (RT)

* CROSS SLOPE TRANSITIONS TO MATCH ADJACENT LANE SLOPES BEFORE BRIDGE





TYPICAL SECTION
SHEET 4 OF 9

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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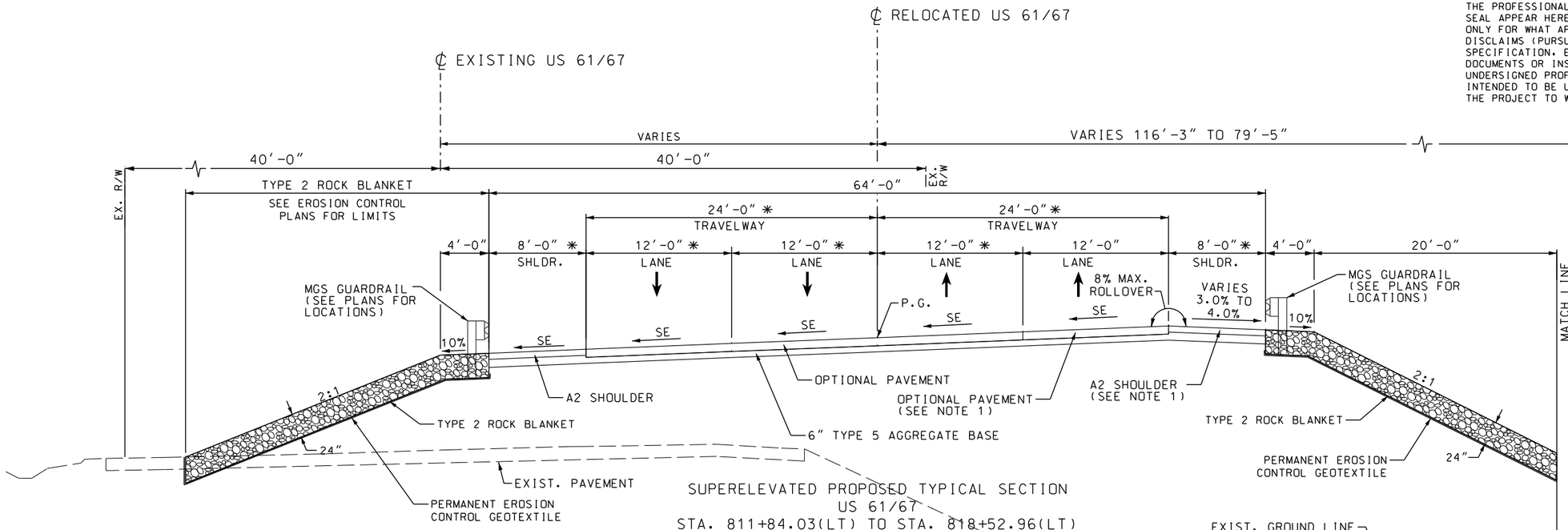
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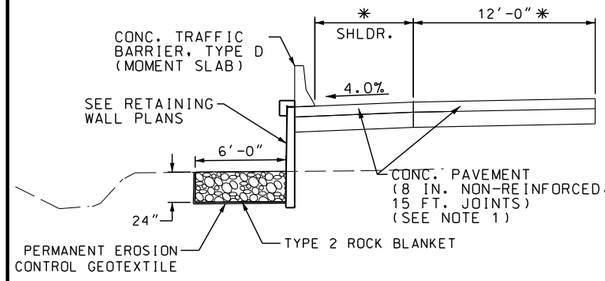


SUPERELEVATED PROPOSED TYPICAL SECTION
US 61/67
STA. 811+84.03(LT) TO STA. 818+52.96(LT)
STA. 811+51.71(RT) TO STA. 818+52.96(RT)

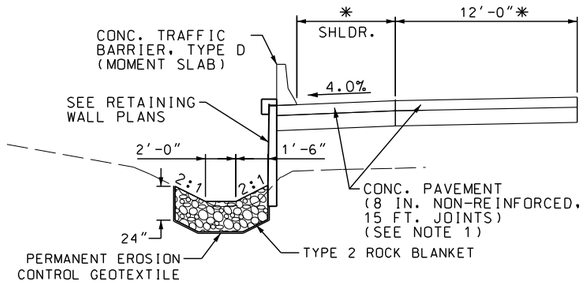
* FROM STA. 817+00.00 TO STA. 817+67.50
TRANSITION TRAVELWAY FROM 24'-0" TO 22'-6"
TRANSITION LEFT LANES FROM 12'-0" TO 11'-3"
TRANSITION RIGHT INSIDE LANE FROM 12'-0" TO 10'-6"
TRANSITION SHOULDERS FROM 8'-0" TO 6'-6"
SEE ROADWAY PLANS FOR ADDITIONAL DETAILS

NOTES:

1. 815+00.00 TO 819+50.00 CONCRETE PAVEMENT (8 IN. NON-REINFORCED 15 FT. JOINTS) TYPE 5 AGGREGATE BASE TO MATCH ADJACENT PAVEMENT STRUCTURE DEPTH. IF HMA OPTIONAL PAVEMENT USED CHANGE IN TYPE 5 AGGREGATE BASE DEPTH IS INCIDENTAL, NO DIRECT PAY.



BARRIER & WALL SECTION(LT)
STA. 815+00.00 TO STA. 816+50.00

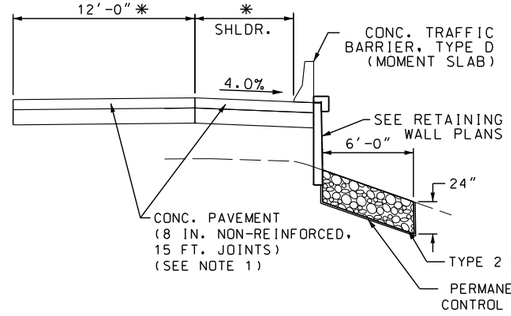


BARRIER & WALL SECTION(LT)
STA. 816+50.00 TO STA. 818+52.96

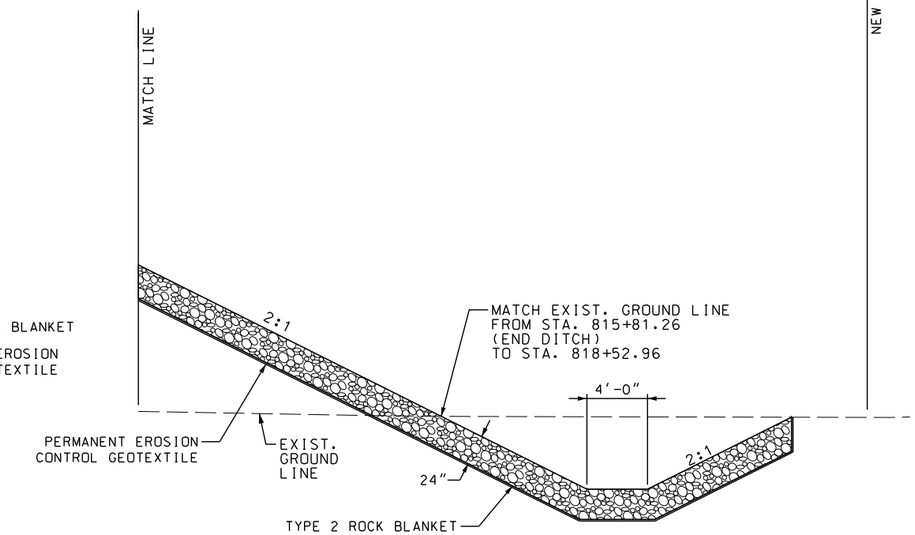
℄ RELOCATED US 61/67

VARIES

NEW R/W



BARRIER & WALL SECTION(RT)
STA. 817+50.00 TO STA. 818+52.96



TYPICAL SECTION
SHEET 5 OF 9

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

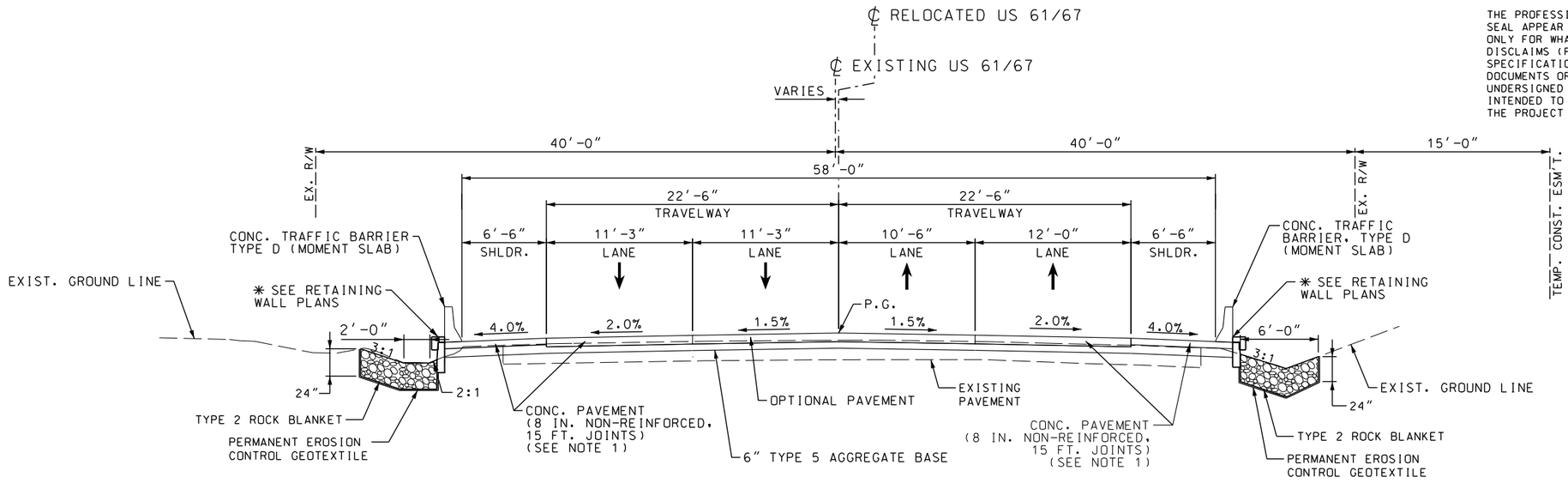
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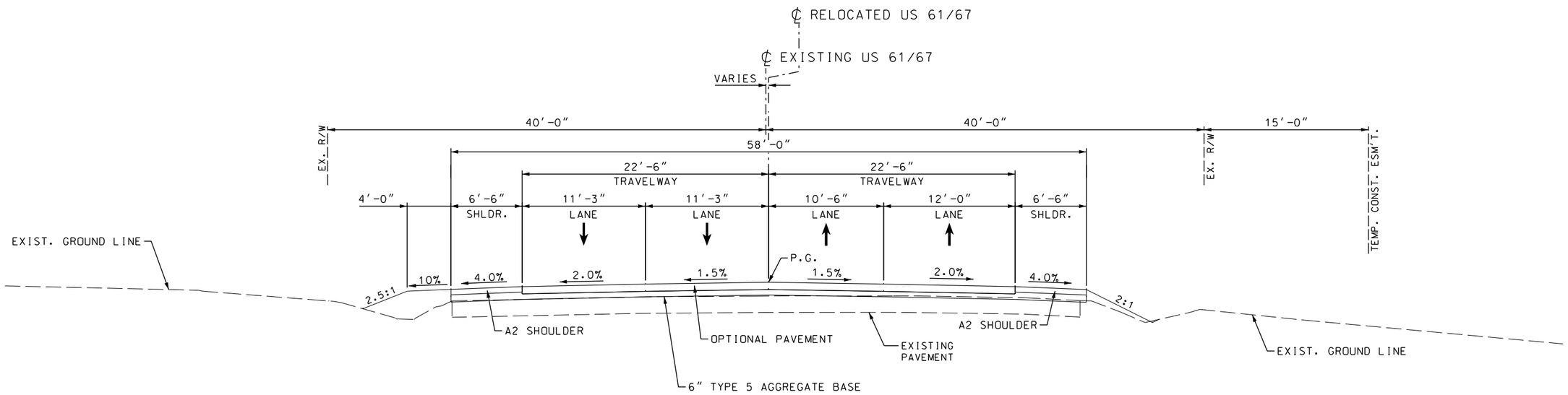
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PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 818+52.96 TO STA. 819+50.00

NOTES:

1. 815+00.00 TO 819+50.00 CONCRETE PAVEMENT (8 IN. NON-REINFORCED 15 FT. JOINTS) TYPE 5 AGGREGATE BASE TO MATCH ADJACENT PAVEMENT STRUCTURE DEPTH. IF HMA OPTIONAL PAVEMENT USED CHANGE IN TYPE 5 AGGREGATE BASE DEPTH IS INCIDENTAL, NO DIRECT PAY.



PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
STA. 819+50.00 TO STA. 819+85.00 (LT)
STA. 820+18.10 (RT)

TYPICAL SECTION
SHEET 6 OF 9

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

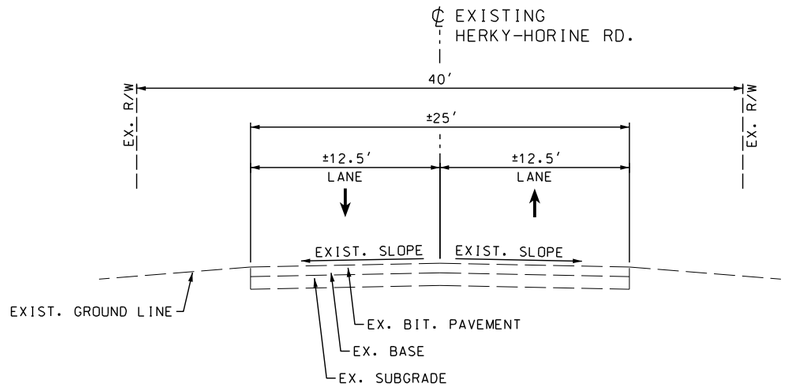
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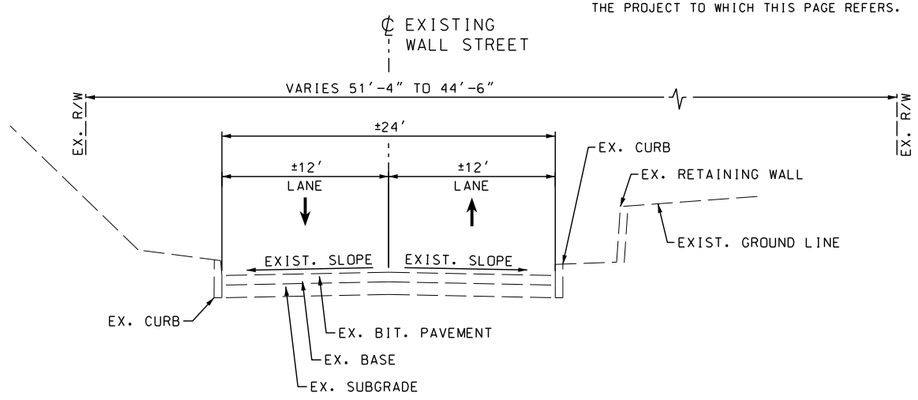
LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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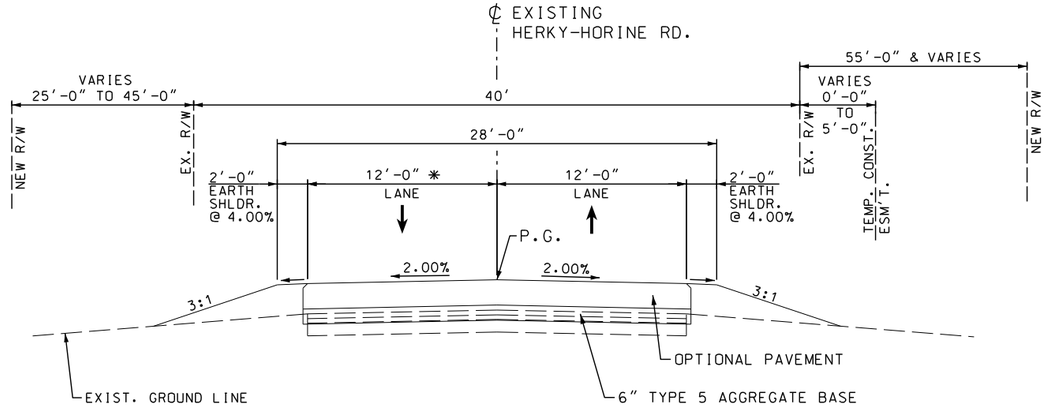
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EXISTING TYPICAL SECTION ON TANGENT
HERKY-HORINE RD.
STA. 20+30.00 TO STA. 24+36.65(LT)
STA. 24+08.97(RT)

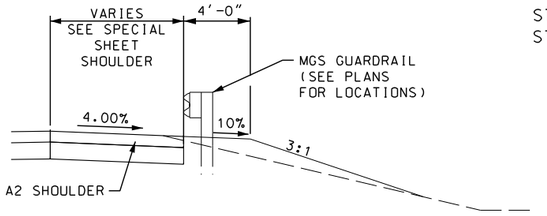


EXISTING TYPICAL SECTION ON TANGENT
WALL STREET
STA. 10+54.45(LT) TO STA. 11+50.00
STA. 10+49.95(RT)

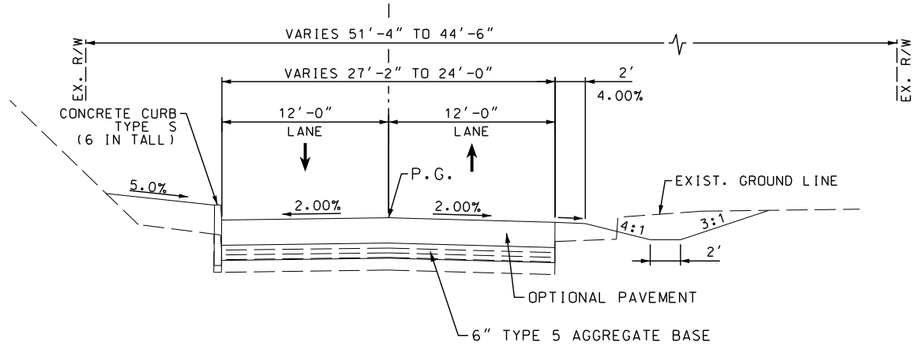


PROPOSED TYPICAL SECTION ON TANGENT
HERKY-HORINE RD.
STA. 20+30.00 TO STA. 23+55.96(LT)
STA. 24+03.05(RT)

* LANE WIDTH VARIES EXISTING TO 12'-0" FROM STA. 20+30.00 TO STA. 20+50.00



HERKY-HORINE RD.
GUARDRAIL SECTION (RT)
STA. 23+53.72 TO STA. 24+03.05



PROPOSED TYPICAL SECTION ON TANGENT
WALL STREET
STA. 10+83.05(LT) TO STA. 11+50.00
STA. 10+84.54(RT)

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/28/2025
ROUTE	61/67
STATE	MO
DISTRICT	SL
SHEET NO.	2
COUNTY	JEFFERSON
JOB NO.	J6S3289
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8737

DESCRIPTION	DATE

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105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

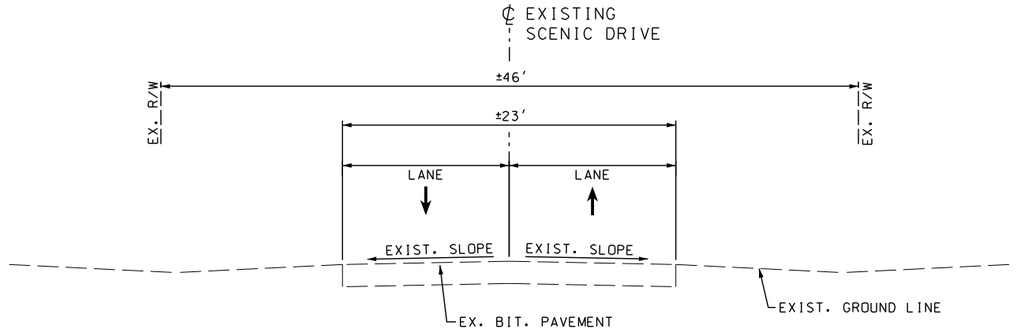
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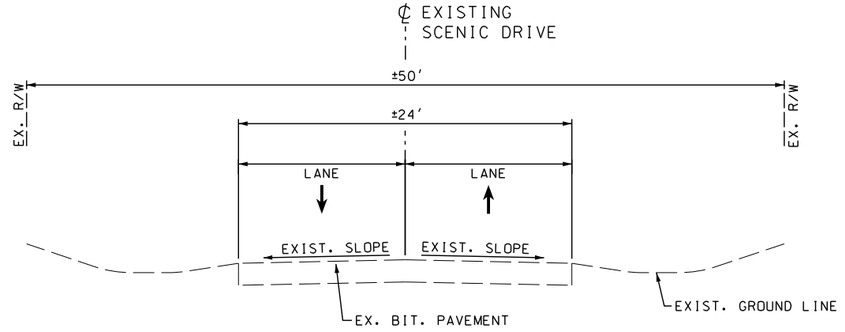
TYPICAL SECTION
SHEET 7 OF 9

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EXISTING TYPICAL SECTION
SCENIC DRIVE - EAST OF US 61/67



EXISTING TYPICAL SECTION
SCENIC DRIVE - WEST OF US 61/67

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

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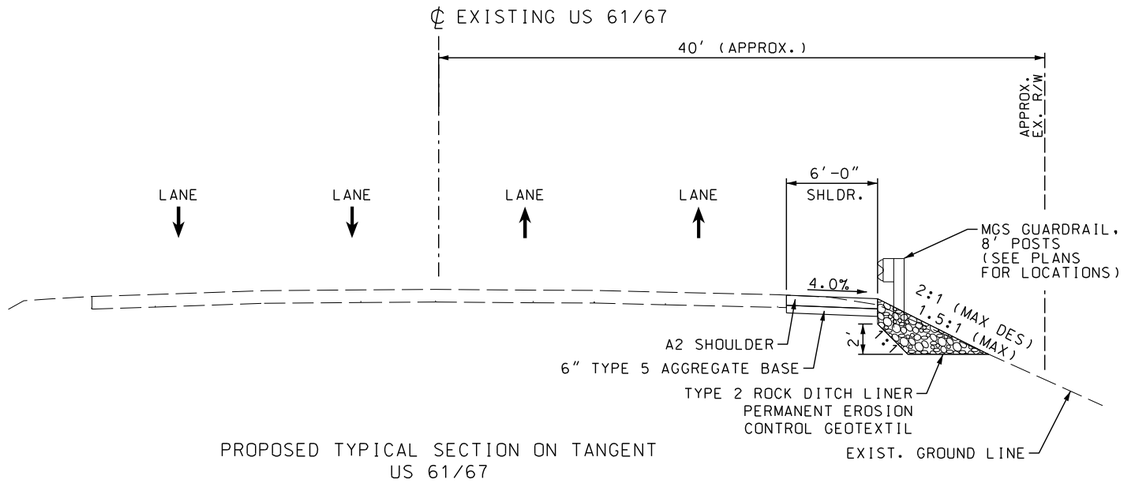
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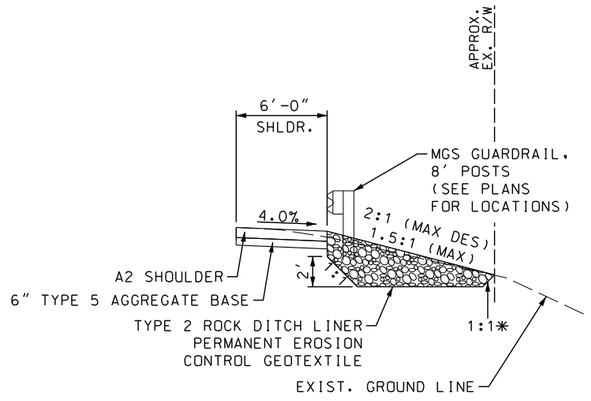
TYPICAL SECTION
SHEET 8 OF 9

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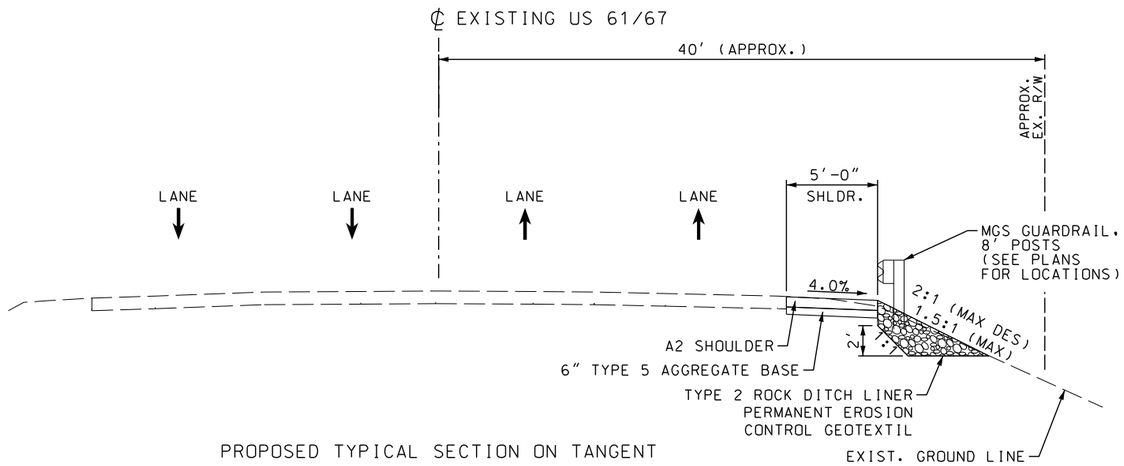


PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
SLIDE REPAIR LOCATIONS
STA. 772+36.49 TO STA. 773+65.00
STA. 775+55.00 TO STA. 779+05.00



REDUCED ROCK DITCH LINER
FOR TIGHT R/W LOCATIONS

* TO AVOID EXCEEDING EXISTING R/W SLOPE UP FROM BOTTOM OF ROCK DITCH LINER AREA AT 1:1 TO EXISTING R/W LINE. SLOPE BOTTOM OF ROCK DITCH LINER AREAS TO DRAIN TO WHERE THESE AREAS DAYLIGHT.



PROPOSED TYPICAL SECTION ON TANGENT
US 61/67
SLIDE REPAIR LOCATIONS
STA. 782+35.00 TO STA. 784+10.00

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

TYPICAL SECTION
SHEET 9 OF 9

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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105 WEST CAPITOL
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REMOVAL OF IMPROVEMENTS								
SHEET	ROADWAY	STATION FROM	STATION (TO)	LOCATION	LENGTH (FEET)	EACH	AREA (SY)	DESCRIPTION OF REMOVAL
4	US 61/67	793+00.00	-	ON CENTER	-	1		FULL DEPTH SAW CUT
4	US 61/68	793+00.00	802+00.00	ON CENTER	-		4834	PAVEMENT
4	US 61/69	793+00.00	7942+26.36	LT	-			12" TREE
4	US 61/70	793+00.00	794+62.09	RT	129			12" TREE
4	US 61/67	795+07.00	-	RIGHT		1		SIGN
4	US 61/67	797+27.47	-	RIGHT		1		SIGN
4	US 61/67	797+94.36	798+35.26	LEFT	41	-		TIMBER WALL
5	US 61/67	802+00.00	813+00.00	ON CENTER	-		3959	PAVEMENT
5	US 61/67	804+29.00	-	LEFT	-	1		SIGN
5	US 61/67	812+17.79	812+17.42	RIGHT	618	-		GUARDRAIL
5	US 61/67	805+75.00	-	LEFT	-	1		SIGN
5	US 61/67	806+83.22	812+86.14	LEFT	593	-		GUARDRAIL
5	US 61/67	808+03.00	-	LEFT	-	1		SIGN
5	US 61/67	808+08.11	-	LEFT	-	1		SIGN
5	US 61/67	807+09.00	-	LEFT	-	1		SIGN
5	US 61/67	810+99.80	-	LEFT	-	1		SIGN
5	US 61/67	811+94.52	-	LEFT	-	1		SIGN
6	US 61/67	813+00.00	820+40.00	ON CENTER	-		4242	PAVEMENT
6	US 61/67	813+98.53	-	LEFT	-	1		SIGN
6	US 61/67	814+85.13	-	LEFT	-	1		SIGN
6	US 61/67	820+40.00	-	ON CENTER	-	1		FULL DEPTH SAW CUT
7	HERKY-HORINE RD	20+30.00	-	ON CENTER	-	1		FULL DEPTH SAW CUT
7	HERKY-HORINE RD	20+30.00	24+50.00	ON CENTER	-		1277	PAVEMENT
7	HERKY-HORINE RD	22+82.85		LEFT		1		LIGHT POLE AND FOUNDATION
7	HERKY-HORINE RD	23+00.81	-	LEFT	-	1		48" METAL FES
7	HERKY-HORINE RD	23+02.62	-	ON CENTER	-	1		48" CMP
7	HERKY-HORINE RD	23+02.82	-	RIGHT	-	1		48" METAL FES
7	HERKY-HORINE RD	23+07.90	-	LEFT	-	1		SIGN
7	HERKY-HORINE RD	23+44.28	-	LEFT	-	1		SIGN
7	HERKY-HORINE RD	24+51.89	-	RIGHT	-	1		SIGN
7	HERKY-HORINE RD	24+54.73	-	RIGHT	-	1		SIGN
7	HERKY-HORINE RD	24+74.98		LEFT		1		LIGHT POLE AND FOUNDATION
7	HERKY-HORINE RD	24+78.52	-	LEFT	-	1		SIGN
7	WALL ST	10+24.47	11+50.00	ON CENTER	-		302	PAVEMENT
7	WALL ST	10+24.47	11+50.00	LEFT	102			CURB
7	WALL ST	10+24.47	11+50.00	RIGHT	67			CURB
7	WALL ST	10+53.06	10+67.96	RIGHT	15	-		TIMBER WALL
7	WALL ST	10+53.25	11+09.70	RIGHT	57	-		TIMBER WALL
7	WALL ST	10+62.28	-	RIGHT	-	1		SIGN
7	WALL ST	10+67.40	-	LEFT	-	1		SIGN
7	WALL ST	10+94.09	-	RIGHT	-	1		SIGN
7	WALL ST	10+99.36	-	RIGHT	-	1		2" SHRUB
7	WALL ST	11+04.01	-	RIGHT	-	1		MAILBOX
7	WALL ST	11+50.00	-	ON CENTER	-	1		FULL DEPTH SAW CUT
8	US 61/67-SLIDE	772+39.00	773+64.00	RIGHT	126			GUARDRAIL
8	US 61/67-SLIDE	775+54.00	779+08.00	RIGHT	350			GUARDRAIL
8	US 61/67-SLIDE	782+35.00	784+10.00	RIGHT	175			GUARDRAIL
TOTAL = 1 LUMP SUM								

CULVERT CLEANOUT AND INSPECTION						
PLAN SHEET NO.	ROADWAY	STATION	SIDE	CULVERT CLEANOUT (EA)	VIDEO CAMERA INSPECTION (EA)	REMARKS
SLIDE REPAIR						
8	US 61/67	773+03.83	LT	1		
8	US 61/67	776+63.94	LT	1	1	
8	US 61/67	783+06.68	LT	1		
			TOTAL	3	1	

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

TEMPORARY SHORING
1 L SUM

MISC. WICK DRAIN SYSTEM
1 L SUM

CLEARING AND GRUBBING	
PRE-LOAD	3.60000
FINAL CONDITION	5.00000
SLIDE REPAIR	0.10000
TOTAL 8.7 ACRE	
PAY TOTAL = 9 ACRE	

4 IN TEMPORARY PAVEMENT MARKING PAINT
18748 LF
ASSUMES 2 APPLICATIONS

SETTLEMENT GUAGES				
PLAN SHEET NO.	ROADWAY	STATION	SETTLEMENT GAUGE (EA)	REMARKS
PRE-LOAD 3	US 61/67	799+50.00	1	
PRE-LOAD 3	US 61/67	802+50.00	1	
PRE-LOAD 3	US 61/67	804+75.00	1	
PRE-LOAD 3	US 61/67	806+50.00	1	
PRE-LOAD 4	US 61/67	811+50.00	1	
PRE-LOAD 4	US 61/67	813+75.00	1	
		TOTAL	6	

MSE RETAINING WALL									
PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	AESTHETIC CONCRETE STAIN (LS)	MECHANICALLY STABILIZED EARTH WALL SYSTEMS (SF)	STRUCTURAL UNDERDRAIN (LF)	OUTLET PIPES AND SPLASH PADS (EA)	REMARKS
4	US 61/67	817+50.00	819+50.00	RT	1	1007	202	1	20-6S3289-001
4	US 61/67	793+00.00	797+00.75	LT	1	3600	450	1	20-6S3289-002
				TOTAL			652	2	

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STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2010008786
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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LAYOUT	CM. & MC	06/2020
DRAWN	CM. & RA	03/2025
REVIEWED	MGD	03/2025

QUANTITY SHEET
SHEET 1 OF 5

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EARTHWORK

PLAN SHEET NO.	ROADWAY	STATION	STATION	UNCLASSIFIED EXCAVATION (CY)	EMBANKMENT (CY)	COMPACTING EMBANKMENT (CY)	EMBANKMENT IN PLACE (CY)	FOR INFORMATION ONLY** EXCESS UNCLASSIFIED EXC. (CY)	LINEAR GRADING CLASS 2 (STA)	REMARKS
PRE-LOAD										
PL 3	EX US 61/67	799+00.00	807+00.00	6524	62473	6524	55949	0		
PL 4	EX US 61/67	811+00.00	814+50.00	2835	27577	2835	24742	0		
			PRE-LOAD TOTAL	9359	90050	9359	80691	0	0.0	**ESTIMATED VOLUME OF EMBANKMENT TO IMPORT FOR PRE-LOAD WOR
FINAL CONDITION										
4/5	RELOCATED US 61/67	793+00.00	806+50.00	11940	8977	8977	0	-2963	13.8	
5/29	NORTH BRIDGE CONE	806+50.00	809+00.00	3955	975	975	0	-2980		
5/29	SOUTH BRIDGE CONE	809+00.00	811+60.00	3645	1263	1263	0	-2382		
5/6	RELOCATED US 61/67	811+60.00	820+40.00	9355	6002	6002	0	-3353	9.1	
7	HERKY-HORINE RD	20+30.00	24+74.57	17	3923	3923	0	3906	4.5	
7	WALL ST	10+24.47	11+50.00	19	1161	1161	0	1142	1.3	
			FINAL CONDITION TOTAL	28931	22301	22301	0	-6630	28.7	**ESTIMATED EXCESS MATERIAL AT END OF CONSTRUCTION.
			TOTAL	38290		31660	80691	-6630	28.7	
SLIDE REPAIR										
8	EX US 61/67	772+36.00	773+65.00	102	0	0	0	-102	1.3	
8	EX US 61/67	775+55.00	779+05.00	292	0	0	0	-292	3.5	
8	EX US 61/67	782+35.00	784+10.00	190	0	0	0	-190	1.8	
			SLIDE REPAIR TOTAL	584	0	0	0	-584	6.6	**ESTIMATED EXCESS MATERIAL AT END OF CONSTRUCTION.
										DISPOSE OF EXCESS UNCLASSIFIED EXC. OFF OF PROJECT SITE
NOTE: VOLUMES ARE NOT ADJUSTED.										

PAVEMENT, SHOULDER, CURBS AND BARRIER

PLAN SHEET NO.	ROADWAY	STATION	STATION	TYPE 5 AGGREGATE FOR BASE (6 IN. THICK) (SY)	TYPE A2 SHOULDER (SY)	MISC. OPTIONAL PAVEMENT (SY)	CONCRETE PAVEMENT (8 IN. NON-REINFORCED, 15 FT. JOINTS) (SY)	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	CURB AND GUTTER TYPE A (LF)	CONCRETE TRAFFIC BARRIER, TYPE D (MOMENT SLAB) (LF)	REMARKS
FINAL CONDITION											
4	US 61/67	793+00.00	802+00.00	6910	1334.3	5484.2		33	276		
5	US 61/67	802+00.00	813+00.00	4314	1078.3	3235.4					
6	US 61/67	813+00.00	820+40.00	5242	671.9	2644.6	1925.3			649	
7	HERKY-HORINE	20+30.00	25+00.00	1243	239.0	1004.1					
7	WALL	10+00.00	11+50.00	192	0.0	176.6		63			
			FINAL CONDITION TOTAL	17901	3323.5	12544.9	1925.3	96	276	649	
SLIDE REPAIRS											
8	US 61/67	772+36.49	773+65.00	82	81.8						
8	US 61/67	775+55.00	779+05.00	230	229.6						
8	US 61/67	782+35.00	784+10.00	97	97.3						
			SLIDE REPAIR TOTAL	409.0	408.7	0.0	0.0	0.0	0.0	0.0	

GUARDRAIL

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	MGS GUARDRAIL (LF)	MGS GUARDRAIL, 8 FT. POSTS, 6 FT. - 3 IN. SPACING (LF)	MGS VERTICAL CONCRETE BARRIER TRANSITION (EA)	MGS HEIGHT AND BLOCK TRANSITION (EA)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	TYPE C CRASHWORTHY END TERMINAL (EA)	REMARKS
FINAL CONDITION											
4	US 61/67	793+00.00	794+25.75	LT	0.0	50.0	0	1	1	0	
4	US 61/67	793+00.00	797+00.75	RT	325.0	0.0	0	1	1	0	
4/5	US 61/67	798+03.76	806+51.60	RT	812.5	0.0	1	0	1	0	
5/6	US 61/67	811+02.45	816+88.75	RT	581.0	0.0	2	0	0	0	
5/6	US 61/67	811+58.54	814+94.84	LT	258.5	0.0	2	0	0	0	
6	US 61/67	819+50.00	819+75.00	LT						1	
			FINAL CONDITION TOTAL		1977.0	50.0	5	2	3	1	
SLIDE REPAIR											
8	US 61/67	772+40.00	773+65.00	RT		76.0		1	1		
8	US 61/67	775+55.00	779+05.00	RT		300.0		2			
8	US 61/67	782+35.00	784+10.00	RT		125.0		2			
			SLIDE REPAIR TOTAL		0.0	501.0	0	5	1	0	

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STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004008786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LAYOUT	CM & MC	06/2020
DRAWN	CM & PA	03/2025
REVIEWED	MGD	03/2025

QUANTITY SHEET
SHEET 2 OF 5

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DRAINAGE STRUCTURES

SHEET NO.	CULVERT SECTION SHEET NO.	ROADWAY	STATION	OFFSET	CURB INLET (EA)	MANHOLE FRAME AND COVER, TYPE 3 (EA)	PRECAST CONCRETE DROP INLET 4 FT X 2 FT (LF)	CURVED VANE GRATE AND FRAME (4 FT. X 2 FT. OR 1200MM X 600MM) (EA)	CLASS 3 EXC. (DROP INLETS) (CY)	REMARKS
17	37	US 61/67	815+10.00	30.0' LT			9	1	4	
17	37	US 61/67	818+00.00	27.0' LT			5	1	4	
17	37	WALL	10+57.55	29.81 LT	1	1			0	TYPE T
17	37	WALL	10+81.91	14.19 LT	1	1			7	TYPE T
				TOTAL	2	2	14	2	15	
				SEE PIPE & END SECTIONS					140	
				PAY TOTAL	2	2	14	2	155	

PIPES & END SECTIONS

SHEET NO.	CULVERT SECTION SHEET NO.	ROADWAY	STATION	STATION	PIPE GROUP A 12 IN. (LF)	PIPE GROUP A 60 IN. (LF)	PIPE GROUP B 12 IN. (LF)	PIPE GROUP B 15 IN (LF)	FLARED END SECTION GROUP A 12 IN. (EA)	FLARED END SECTION GROUP A 60 IN. (EA)	FLARED END SECTION GROUP B 15 IN. (EA)	CLASS 3 EXC. PIPES (CY)	REMARKS
17	37	US 61/67	815+10.00		21				1			1	
17	37	US 61/67	818+10.00		6				1			1	
17	37	HERKY	22+54.45	23+05.95		87				2		134	
17	37	WALL	10+81.91	10+57.58			26					2	
17	37	WALL	10+57.58	10+53.45				66			1	2	
				TOTAL	27	87	26	66	2	2	1	140	
				PAY TOTAL	27	87	26	66	2	2	1		

PAVEMENT MARKING

PLAN SHEET NO.	ROADWAY	STATION	STATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN. WHITE (LF)	4 IN. YELLOW STANDARD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (LF)	6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (LF)	REMARKS
FINAL CONDITION							
32	US 61/67	793+05.00	802+00.00	0	1800	2291	
32	US 61/67	802+00.00	813+00.00	0	2200	2750	
32	US 61/67	813+00.00	820+30.00	0	1480	1795	
32	HERKY	20+25.00	24+00.00	23	809	0	
32	WALL	10+00.00	11+28.30	17	173	744	
			FINAL CONDITION TOTAL	40	6462	7580	
SLIDE REPAIR							
33	US 61/67	772+40.00	773+65.00	0	0	123	
33	US 61/67	775+55.00	779+05.00	0	0	345	
33	US 61/67	782+35.00	784+10.00	0	0	175	
			SLIDE REPAIR TOTAL	0	0	643	

RUMBLE STRIPS

PLAN SHEET NO.	ROADWAY	STATION	STATION	LOCATION	BITUMINOUS SHOULDER RUMBLE STRIP (STA)	PORTLAND CEMENT CONCRETE SHOULDER RUMBLE STRIP (STA)	REMARKS
FINAL CONDITION							
4	US 61/67	793+00.00	796+89.43	LT	4.0		
4	US 61/67	793+00.00	797+20.05	RT	4.2		
4/5	US 61/67	798+30.00	806+99.00	LT	8.7		
4/5	US 61/67	799+47.19	806+57.78	RT	8.0		
5/6	US 61/67	811+09.13	815+00.00	RT	4.0		
5/6	US 61/67	811+54.99	815+00.00	LT	3.5		
6	US 61/67	815+00.00	819+50.00	LT		4.5	
6	US 61/67	815+00.00	819+50.00	RT		4.6	
6	US 61/67	819+50.00	819+85.00	LT	0.4		
6	US 61/67	819+50.00	820+40.00	RT	0.9		
			FINAL CONDITION TOTAL		33.7	9.1	
SLIDE REPAIRS							
8	US 61/67	772+36.49	773+65.00	RT	1.3		
8	US 61/67	775+55.00	779+05.00	RT	3.5		
8	US 61/67	782+35.00	784+10.00	RT	1.8		
			SLIDE REPAIR TOTAL		6.6	0	

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004008786
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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QUANTITY SHEET
SHEET 3 OF 5

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EROSION CONTROL

PLAN SHEET NO.	ROADWAY	STATION	STATION	SEEDING - COOL SEASON GRASSES (ACRE)	ROCK DITCH CHECK (LF)	CURB INLET CHECK (EA)	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)	TEMPORARY SEEDING (ACRE)	ADDITIONAL MOBILIZATION FOR SEEDING (EA)	TYPE C BERM (LF)	TYPE 4 EROSION CONTROL BLANKET (SY)	REMARKS
PRE-LOAD										1			
PL 1	EX US 61/67	799+00.00	807+00.00				1556	51	2.7			7236	
PL 2	EX US 61/67	811+00.00	814+50.00				1805	58	1.2			2838	
		PRE-LOAD TOTAL		0.0	0	0	3361	109	3.9	1	0	10075	
FINAL CONDITION										1			
28/29	NORTH OF CREEK	793+00.00	806+00.00	1.9	140		3013	60	3.6		391	9032	
29	SOUTH OF CREEK	806+00.00	820+40.00	0.2	154	2	2146	43	1.5		338	648	
28	HERKY-HORINE RD	20+30.00	24+74.57										
28	WALL ST	10+24.47	11+50.00			2							
		FINAL CONDITION TOTAL		2.1	294	4	5159	103	5.1	1	729	9680	
			TOTAL	2.1	294	4	8520	212	9.0	2	729	19755	
SLIDE REPAIR													
30	EX US 61/67	772+36.00	773+65.00				152	3					
30	EX US 61/67	775+55.00	779+05.00				372	7					
30	EX US 61/67	782+35.00	784+10.00				205	4					
		SLIDE REPAIR TOTAL		0.0	0	0	729	14	0.0	0	0	0	

ROCK DITCH LINER AND BLANKET

PLAN SHEET NO.	ROADWAY	STATION	STATION	FURNISHING TYPE 2 ROCK DITCH LINER (CY)	FURNISHING TYPE 3 ROCK DITCH LINER (CY)	PLACING TYPE 2 ROCK DITCH LINER (CY)	PLACING TYPE 3 ROCK DITCH LINER (CY)	BEDDING MATERIAL FOR ROCK DITCH LINER (CY)	FURNISHING TYPE 2 ROCK BLANKET (CY)	PLACING TYPE 2 ROCK BLANKET (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	REMARKS
FINAL CONDITION												
4	US 61/67	793+05.00	802+00.00									
5	US 61/67	802+00.00	813+00.00									
6	US 61/67	813+00.00	820+30.00									
4/5	US 61/67	799+00.00	809+00.00						5,808	5,808	9391	
5/6	US 61/67	809+00.00	820+00.00						4,592	4,592	7377	
7	HERKY	20+25.00	24+00.00		87		87	29			170	
7	WALL	10+00.00	11+28.30									
	US 61/67	772+36.00	784+10.00									
		FINAL CONDITION TOTAL		0	87	0	87	29	10400	10400	16938	
SLIDE REPAIRS												
8	US 61/67	772+36.49	773+65.00	88		88					59	
8	US 61/67	775+55.00	779+05.00	240		240					160	
8	US 61/67	782+35.00	784+10.00	150		150					84	
		SLIDE REPAIR TOTAL		478	0	478	0	0	0	0	303	

LIGHTING

PLAN SHEET NO.		FROM	TO	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 6 AWG (LF)	TRENCHING TYPE II (LF)	LIGHTING POLE 30 FT TYPE AT (EA)	LUMINAIRE LED-C (TOP MOUNTED) (EA)	POLE FOUNDATION 30FT MOUNTING HEIGHT (EA)	CABLE, 10 AWG 1 CONDUCTOR, POLE & BRACKET (LF)	REMARKS
31	HERKY-HORINE RD	LP1	LP2	240	220					
31	HERKY-HORINE RD	LP2	LP3	200	180					
31	HERKY-HORINE RD	LP2				1	1	1	60	
31	HERKY-HORINE RD	LP3				1	1	1	60	
			TOTAL	440	400	2	2	2	120	

LAYOUT	CM. & MC	06/2020
DRAWN	CM. & RA.	03/2025
REVIEWED	MGD.	03/2025

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY JEFFERSON

JOB NO. J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A8737

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DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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QUANTITY SHEET
SHEET 4 OF 5

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00	1	16				REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	1	16				REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00	3	48				SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00	2	32				TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25	2	12.5				ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00	2	10				XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	7	112				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	6	96				DETOUR AHEAD
WO20-3	48X48	16.00	8	128				ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00	1	16				2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	3	48				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00	2	20				ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00	2	16				END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00	3	18				WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	3	9				END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25	1	13.25				STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	5	60				SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	2	20				ROAD CLOSED
R11-3a	60X30	12.50	2	25				ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64				POINT OF PRESENCE
CONST-8	48X36	12.00	2	24				WORK ZONE NO PHONE ZONE
DET-1	36X78	19.50	24	468				DETOUR ASSEMBLY-US61
DET-2	36X72	18.00	20	360				DETOUR ASSEMBLY-HERKY
OM4-1	18X18	2.25						TYPE 4 OBJECT MARKER

616-10.05 CONSTRUCTION SIGNS	TOTAL 1600
616-10.10 RELOCATED SIGNS	TOTAL *

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ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009	3**	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020	3**	REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	9	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	44	CHANNELIZER (TRIM LINE)
6161030	24	TYPE III MOVEABLE BARRICADE
6161033	31	DIRECTION INDICATOR BARRICADE
6161040	4	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070	7	TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4**	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D	3212.5 **	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

NOTE: ALL TRAFFIC CONTROL ITEMS ARE INCLUDED IN PAY ITEM 616-99.01, TEMPORARY TRAFFIC CONTROL, LUMP SUM, UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.

NOTES:
1. * NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.
2. ** NOT INCLUDED IN MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL.
3. SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
4. CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

QUANTITY SHEET
SHEET 5 OF 5

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

EFFECTIVE: 07-01-2024

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE | DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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LEGEND

R	= REMOVE
LIP	= LEAVE IN PLACE
UIP	= USE IN PLACE
DND	= DO NOT DISTURB
REL	= REMOVE AND RELOCATE

CURVE ℄ RELOCATED US 61/67
PI 795+98.14
PC 793+00.00
PT 798+95.89
Δ 5° 03' 29" (RT)
D 0° 50' 55"
L 595.89'
T 298.14'
R 6,750.00'

125.75' TOTAL LENGTH
50' MGS GUARDRAIL, 8' POSTS
1 - MASH CWET
1 - MGS BLOCK & HEIGHT TRANSITION

BEGIN R/W ACQUISITION
℄ RELOCATED US 61/67
STA. 793+00.00 =
EXISTING ℄ STA.
792+98.69, 0.95' LT.

℄ EX. US 61/67
STA 790+69.32 BK =
STA 790+33.07 AH
S29°20'58"W

START STA 790+09.80

2454.94'
N14°48'49"E

LAND CORNER TIE:
SEE DETAIL BELOW

SEE SHEET 7 FOR CONTINUATION ON WALL ST. AND HERKY-HORINE RD.

US SURVEY NO. 2977
T. 41 N., R. 6 E.

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GENERAL NOTES:
1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

(1) PAUL GIUDICY QUARRY LLC

400.75' TOTAL LENGTH
325' MGS GUARDRAIL
1 - MASH CWET
1 - MGS BLOCK AND HEIGHT TRANSITION

(2A) BOYER RAY E JR TRUST

(3) MCHAWES DENNIS T & MCHAWES DONALD H

MoDOT OWNED

℄ WALL ST.
S80°28'10"E

FULL DEPTH SAW CUT (R)

CURB & GUTTER, TYPE A
TEMP. ESM'T. CONST.
STA. 794+48.53
AGGREGATE DRIVEWAY
19.34' WIDE
@ 7.70%

BARNHART EARL
NO ACQUISITION

EX. R/W 40

EX. R/W 140

NEW R/W

CONST. LIMITS

GUARDRAIL (R)

TEMP. ESM'T. CONST.

RIGHT OF WAY

℄ RELOCATED US 61/67

℄ EX. US 61/67
S29°18'50"W

MATCH LINE
STA. 802+00.00

STA. 797+78.43
(RELOCATED US 61/67)=
STA. 10+00.00 (WALL ST.)

STA. 797+82.41
(RELOCATED US61/67)=
STA. 25+00.00
(HERKY-HORINE RD.)

℄ HERKY-HORINE RD.

900.75' TOTAL LENGTH
812.5' MGS GUARDRAIL
1 - MASH CWET
1 - MGS VERT. BAR. TRANS

SCALE
0 50 100 150

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

RIGHT OF WAY LIMITS FOR THE PROJECT EXTEND FROM STA. 793+00.00 TO STA. 820+27.27, A DISTANCE OF 0.516 MILES.

K = 89
530.00' V.C.

PROP. PROFILE
EXIST. PROFILE

VPC 793+25.00
428.70

VPI 795+90.00
EL 411.48
-5.92%
+0.00%

VPT 798+55.00
390.00

799+00.00 (RT)
390.00

	793	794	795	796	797	798	799	800	801	802
PROP.	428.70	425.68	422.92	420.04	417.16	414.25	411.33	408.84	406.75	405.13
EXIST.	428.70	425.17	423.08	420.67	418.54	416.69	415.12	413.83	412.83	412.10
	403.94	403.17	402.67	401.86	339.70	398.18	336.40	393.79	392.50	
	411.65	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48	

+10.0%
0.0%
-10.0%

797+03.00 END NORMAL CROWN
797+23.00 BEGIN TRANSITION
798+43.00 BEGIN REVERSE CROWN

-1.5%
-2.0%
-4.0%
+2.0%

TRANSITION OUTSIDE SB LANE TO -1.5%

SE TRANSITION LENGTH = 120'

SUPERELEVATION DIAGRAM

RIGHT (SB) EDGE OF PAVEMENT
RIGHT (SB) EDGE OF INSIDE LANE
RIGHT (SB) EDGE OF SHOULDER
GRADE AT CENTERLINE ROUTE 61/67
LEFT (NB) EDGE OF SHOULDER
LEFT (NB) EDGE OF INSIDE LANE
LEFT (NB) EDGE OF PAVEMENT

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 4
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DATE | DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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LEGEND

R	= REMOVE
LIP	= LEAVE IN PLACE
UIP	= USE IN PLACE
DND	= DO NOT DISTURB
REL	= REMOVE AND RELOCATE
▨	= EXISTING ROADWAY EMBANKMENT TO BE REMOVED

DND* = TREE IDENTIFIED AS SUITABLE BAT HABITAT DO NOT DISTURB.

③ MCHAWES DENNIS T & MCHAWES DONALD H

CURVE ℄ RELOCATED US 61/67
PI 803+69.03
PC 800+70.89
PT 806+66.78
Δ 5° 03′ 29″ (LT)
D 0° 50′ 56″
L 595.89′
T 298.14′
R 6,750.00′

US SURVEY NO. 2977
T. 41 N.,
R. 6 E.

CURVE ℄ RELOCATED US 61/67
PI 813+52.90
PC 810+11.22
PT 816+89.63
Δ 16° 54′ 00″ (LT)
D 2° 29′ 28″
L 678.41′
T 341.69′
R 2,300.00′

⑤ CITY OF HERCULANEUM

CITY OF HERCULANEUM NO ACQUISITION

JOACHIM CREEK

MATCH LINE STA. 802+00.00

MATCH LINE STA. 813+00.00

℄ EX. US 61/67

℄ RELOCATED US 61/67

S29°18′50″W

S29°20′58″W

CP3

CP4

CP5

CONST. LIMITS

EX. R/W 40′

TEMP. ESM'T. (CONST.)

GUARDRAIL (R)

EXIST. BRIDGE K0294

NEW BRIDGE A8737

NEW R/W

+00.00 103.66′

+00.00 32.53′

+00.00 107.53′

+00.00 105.63′

+60.57 12.05′

+33.35 132.06′

+75.01 108.09′

+88.80 133.10′

+46.89 116.00′

STA 806+66

STA 810+11.22

STA 811+32.39

25.0′

8.0′

12.0′

BRIDGE A8737
STA. 806+77.72, 40°
OVER JOASHIM CREEK
90′-90′-90′-90′-90′
NU-GIRDERS
5 SPANS
64′ INSIDE DECK WIDTH

900.75′ TOTAL LENGTH
812.5′ MGS GUARDRAIL
1 - MASH CWET
1 - MGS VERT. BAR. TRANS

① ④ LL FOUNDATION D/B/A LAND LEARNING FOUNDATION

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

SCALE 0 50 100 150

RIGHT (SB) EDGE OF SHOULDER
RIGHT (SB) EDGE OF PAVEMENT
RIGHT (SB) EDGE OF INSIDE LANE
LEFT (NB) EDGE OF INSIDE LANE
LEFT (NB) EDGE OF PAVEMENT
LEFT (NB) EDGE OF SHOULDER

+10.0% 0.0% -10.0%
+2.0% +2.0% -4.0% -2.0% -2.0% -4.0%

BRIDGE APPROACH TRANSITION
LT SHOULDER = 30′
RT SHOULDER = 90′

+60 +20 +50

GRADE AT CENTERLINE ROUTE 61/67 -2.0%

809+87.89 END REVERSE CROWN

SE TRANSITION LENGTH = 70′

810+57.89 BEGIN FULL SUPERELEVATION

RT SHOULDER TRANSITION = 120′

+4.0% +4.0% -4.0% -4.0% -4.0% -4.0%

SUPERELEVATION DIAGRAM

PROP. PROFILE

FILL EXCEPTION

50 YEAR BACK WATER = 408.3

50 YEAR DHW = 404.8

FILL FACE 806+77.72

FILL FACE 811+32.39

VPC 811+32.50

VPT 812+67.50

K = 347
135.00 V.C.

+0.00% +0.39%

VPI 812+00.00
EL 411.48

-1.00%

+1.31%

EXIST. GROUND

806+50.00 (RT)
382.50

811+60.00 (RT)
385.54

382.50 385.54

	802	803	804	805	806	807	808	809	810	811	812	813
	392.50	391.14	389.22	388.60	388.44	386.87	386.85	385.90	385.88	386.01	384.58	378.93
	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.48
	375.83	373.98	372.15	383.03	388.51	389.14	389.60	389.65	389.20	390.29		
	411.48	411.48	411.48	411.48	411.48	411.48	411.48	411.55	411.68	411.87		

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	5

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION
DATE

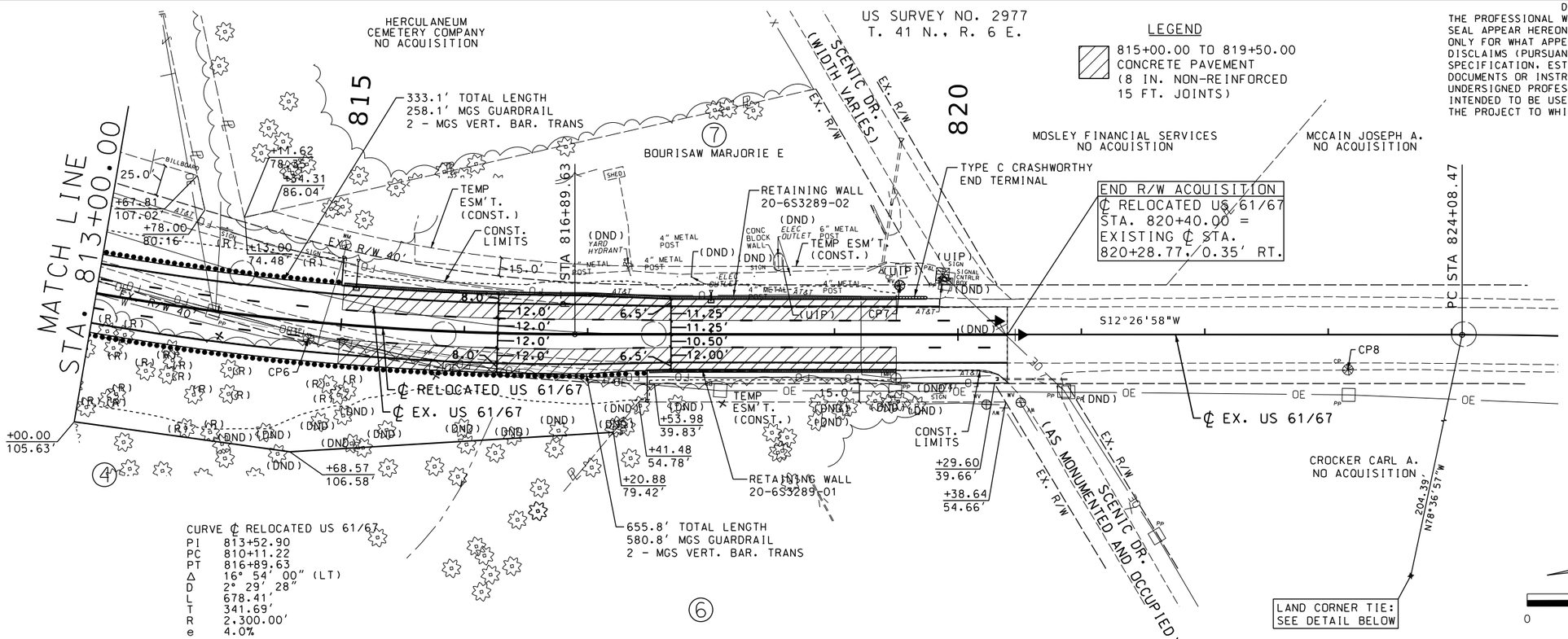
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MATTHEW G. DAWSON
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PROFESSIONAL ENGINEER

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DATE PREPARED	
3/28/2025	
ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	6
COUNTY	
JEFFERSON	
JOB NO.	
J6S3289	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A8737	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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LEGEND

R = REMOVE
LIP = LEAVE IN PLACE
UIP = USE IN PLACE
DND = DO NOT DISTURB
REL = REMOVE AND RELOCATE

US SURVEY NO. 2977
T. 41 N., R. 6 E.

STA. 797+82.41 RELOCATED (US61/67)=
STA. 25+00.00 (HERKY-HORINE RD.)

℄ EX. HERKY-HORINE ROAD

START STA 20+00.00

PT STA 22+11.49

BEGIN CONSTRUCTION STA. 20+30.00

FULL DEPTH SAW CUT (R)

TEMP. ESM'T. CONST.

NEW R/W

EX. R/W

CONST. LIMITS

℄ EX. US 61/67

℄ RELOCATED US 61/67

TEMP. ESM'T. CONST.

BARNHART EARL NO ACQUISITION

END CONSTRUCTION STA. 11+50.00

℄ WALL ST.

END STA 13+17.38

STA 11+45.68

STA 11+05.95

TIMBER WALL (R)

FULL DEPTH SAW CUT (R)

STA. 797+78.43 (RELOCATED US61/67)=
STA. 10+00.00 (WALL ST.)

STA 798+95.89

MoDOT OWNED

EX. R/W

NEW BOUNDARY

CONST. LIMITS

CURVE ℄ EX. HH
(CHORD DEFINITION)
PI 21+05.89
PC 20+00.00
PT 22+11.49
Δ 6° 55′ 30″ (LT)
D 3° 16′ 28″
L 211.49′
T 105.89′
R 1,750.00′

INTERSECTION DETAIL

✱ CONC. CURB (6 IN HEIGHT & UNDER) TYPE S

SCALE
0 50 100 150

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

HERKY-HORINE ROAD PROFILE

K = 40
275.00′ V.C.
VPC 20+30.00
403.73
PROP. PROFILE
VPI 23+05.00
EL 405.20
VPI 24+71.01
EL 411.84
+4.00%
-0.49%
-2.93%
+4.00%
VPI 21+67.50
EL 399.70
EXIST. GROUND

WALL STREET PROFILE

K = 10
100.00′ V.C.
411.46
VPC 10+50.00
410.66
-3.15%
+6.84%
VPT 11+50.00
412.47
VPI 11+00.00
EL 409.08
PROP. PROFILE
EXIST. GROUND

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 7
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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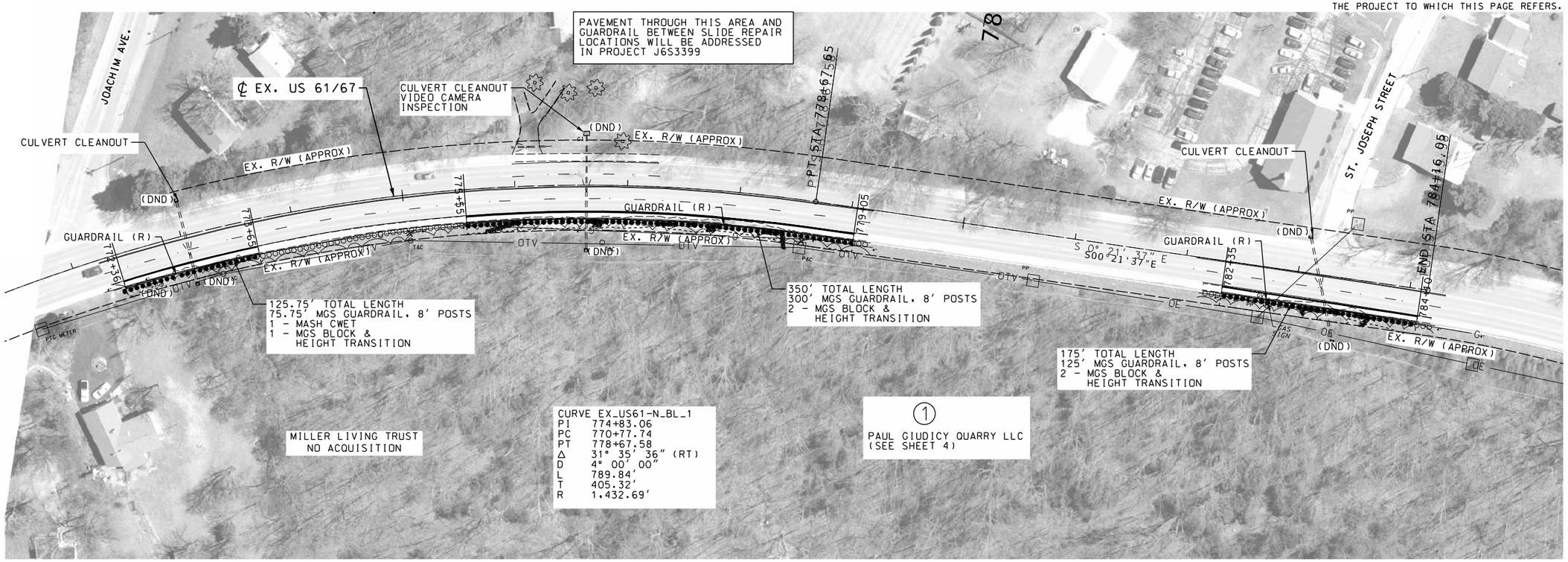
LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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LEGEND	
R	= REMOVE
LIP	= LEAVE IN PLACE
UIP	= USE IN PLACE
DND	= DO NOT DISTURB
REL	= REMOVE AND RELOCATE

US SURVEY NO. 2977
T. 41 N., R. 6 E.

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SCALE
0 50 100 150

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

SLIDE REPAIR PLAN
SHEET 1 OF 1

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 8
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

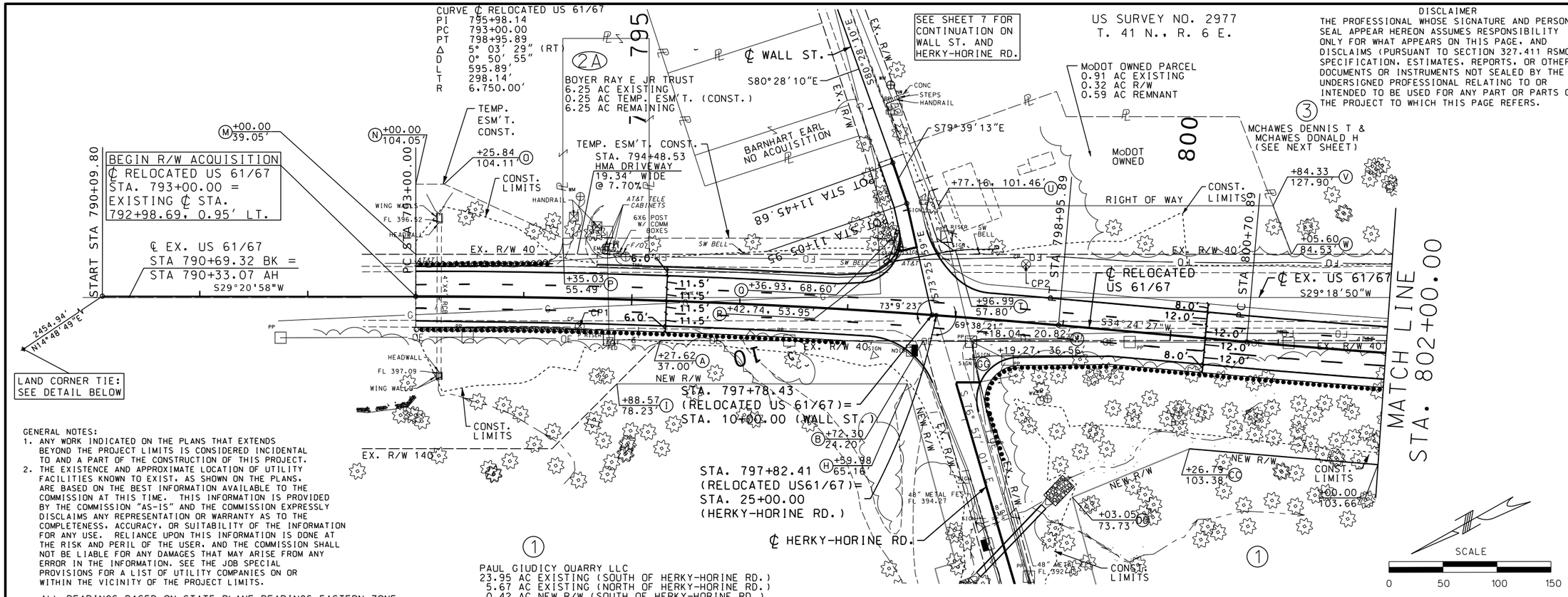
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GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

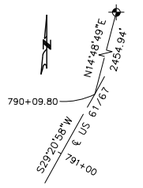
ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

RIGHT OF WAY LIMITS FOR THE PROJECT EXTEND FROM STA. 793+00.00 TO STA. 820+27.27, A DISTANCE OF 0.516 MILES.

(1)

PAUL GIUDICY QUARRY LLC
23.95 AC EXISTING (SOUTH OF HERKY-HORINE RD.)
5.67 AC EXISTING (NORTH OF HERKY-HORINE RD.)
0.42 AC NEW R/W (SOUTH OF HERKY-HORINE RD.)
3.22 AC NEW R/W (NORTH OF HERKY-HORINE RD.)
0.01 AC TCE (SOUTH OF HERKY-HORINE RD.)
23.53 AC REMAINING (SOUTH OF HERKY-HORINE RD.)
2.45 AC REMAINING (NORTH OF HERKY-HORINE RD.)

LAND CORNER TIE:
VERTICAL RAILROAD RAIL FOUND
AT THE NORTH CORNER OF U.S. SURVEY 2977
PER CERTIFIED LAND CORNER 600-83074
CORNER INDEX NO. I-20, RECORDED JAN. 18, 2008
2454.94 FEET NORTHEASTERLY OF CENTERLINE
STATION 790+09.80 ON US 61/67.
PROJECT COORDINATES:
N: 889,278.3796 E: 853,519.2964



LAND CORNER TIE DETAIL

PARCEL 1 - NEW R/W		
(A) (B)	795+27.62 37.00' RT TO 797+72.30 24.20' RT	243.88' S 29°18'50" W
(B) (C)	797+72.30 24.20' RT TO 22+11.49 23.05' LT	269.38' N 75°51'10" W
(C) (D)	22+11.49 23.05' LT TO 22+00.00 23.22 LT	11.34'N 75°51'10" W
(D) (E)	22+00.00 23.22 LT TO 22+00.00 68.23' LT	45.00' N 13°25'34" E
(E) (F)	22+00.00 68.23' LT TO 22+75.00 66.84' LT	74.57' S 75°51'10" E
(F) (G)	22+75.00 66.84' LT TO 22+75.00 46.83' LT	20.00' S 13°02'59" W
(G) (H)	22+75.00 46.83' LT TO 797+59.98 65.16' RT	171.67' S 75°51'10" E
(H) (I)	797+59.98 65.16' RT TO 794+88.57 78.23' RT	268.82' N 29°18'50" E
(I) (A)	794+88.57 78.23' RT TO 795+27.62 37.00' RT	56.57' S 15°41'10" E

PARCEL 2A - TEMPORARY EASEMENT CONSTRUCTION		
(M) (N)	793+00.00 39.05' LT TO 793+00.00 104.05' LT	65.00' S 60°39'02" E
(N) (O)	793+00.00 104.05' LT TO 793+25.84 104.11' LT	26.24' S 29°18'50" W
(O) (P)	793+25.84 104.11' LT TO 794+35.03 55.49' LT	120.70' S 53°47'07" W
(P) (Q)	794+35.03 55.49' LT TO 797+36.93 63.60' LT	304.92' S 29°18'50" W
(Q) (R)	797+36.93 63.60' LT TO 797+42.74 53.95' LT	15.78' N 78°45'10" W
(R) (M)	797+42.74 53.95' LT TO 793+00.00 39.05' LT	445.96' N 29°18'50" E

MODOT OWNED PARCEL - NEW BOUNDARY		
(T) (U)	797+96.99 57.80' LT TO 797+77.16 101.46' LT	48.05' S 81°11'47" E
(U) (V)	797+77.16 101.46' LT TO 800+84.33 127.90' LT	309.92' S 29°18'50" W
(V) (W)	800+84.33 127.90' LT TO 801+05.60 84.53' LT	48.16' N 81°33'34" W
(W) (T)	801+05.60 84.53' LTTO 797+96.99 57.80' LT	310.25' N 29°18'50" E

RIGHT OF WAY
SHEET 1 OF 4

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 9
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

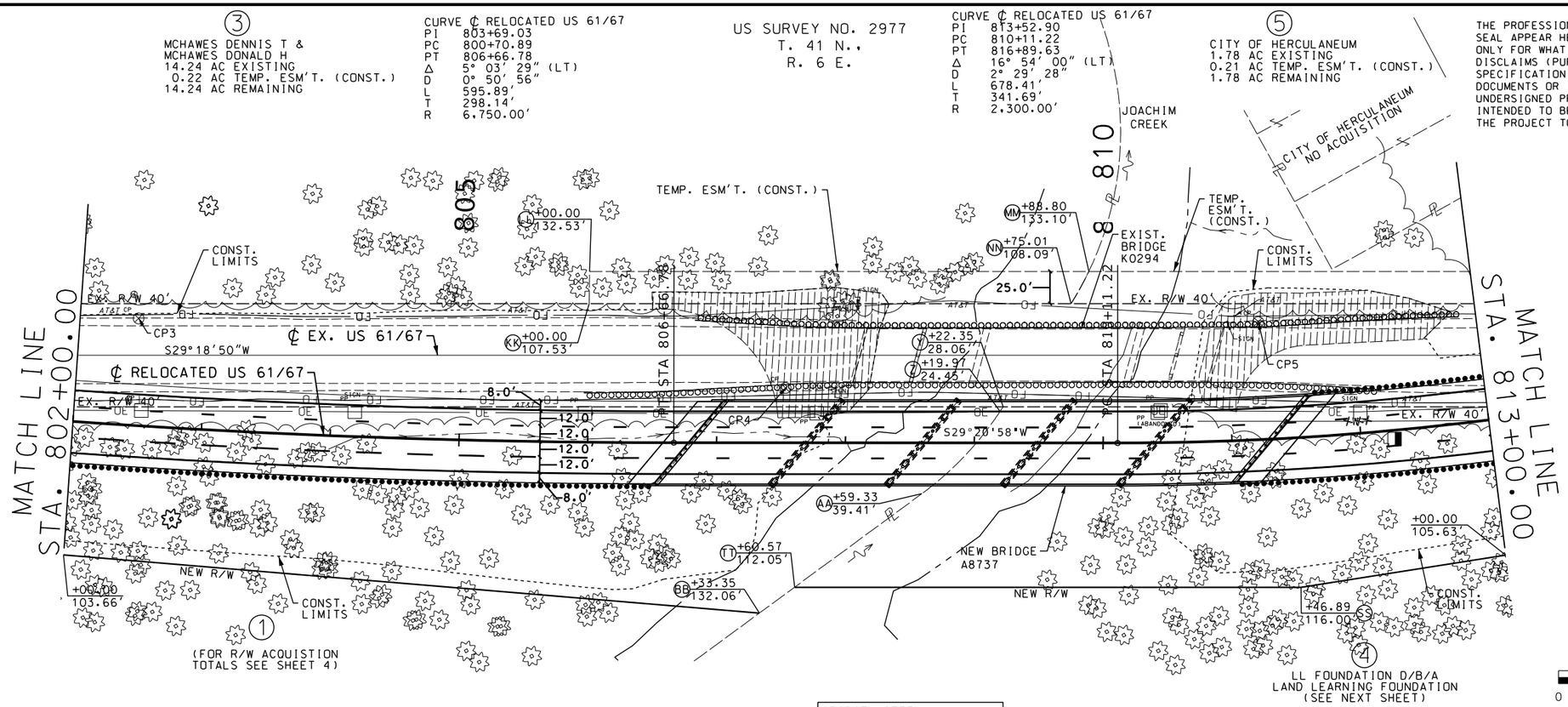
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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

BRIDGE A8737
STA. 806+77.72, 40°
OVER JOACHIM CREEK
90'-90'-90'-90'
NU-GIRDERS
5 SPANS
64' INSIDE DECK WIDTH

PARCEL 1 - NEW R/W		
(X) (Y)	798+18.04 20.82' RT TO 809+22.35 28.06' LT	1,104.18' S29°18'50"W
(Y) (Z)	809+22.35 28.06' LT TO 809+19.97 24.45' LT	4.32' N 27°16'22" W
(Z) (AA)	809+19.97 24.45' LT TO 808+59.33 39.41' RT	R= 250.00', T= 44.73' L= 88.53', D= 22°55'05.9"
(AA) (BB)	808+59.33 39.41' RT TO 807+33.35 132.06' RT	156.38' N 6°59'03" W
(BB) (CC)	807+33.35 132.06' RT TO 800+26.79 103.38' RT	717.18' N 34°05'20" E
(CC) (DD)	800+26.79 103.38' RT TO 23+03.05 73.73' RT	117.24' N 6°54'03" E
(DD) (EE)	23+03.05 73.73' RT TO 22+00.00 71.78' RT	103.54' N 75°51'10" W
(EE) (FF)	22+00.00 71.78' RT TO 22+00.00 16.78' RT	55.00' N 13°25'34" E
(FF) (GG)	22+00.00 16.78' RT TO 798+19.27 36.56' RT	253.02' S 75°51'10" E
(GG) (X)	798+19.27 36.56' RT TO 798+18.04 20.82' RT	15.78' S 60°41'10" E

PARCEL 1 - TEMPORARY EASEMENT CONSTRUCTION		
(FF) (HH)	22+00.00 16.78' RT TO 22+00.00 21.78' RT	5.00' S 13°25'34" W
(HH) (II)	22+00.00 21.78' RT TO 21+00.00 23.40' RT	101.30' N 75°51'10" W
(II) (JJ)	21+00.00 23.40' RT TO 21+00.00 18.39' RT	5.00' N 16°42'02" E
(JJ) (FF)	21+00.00 18.39' RT TO 22+00.00 16.78' RT	101.02' S 75°51'10" E

PARCEL 3 - TEMPORARY EASEMENT CONSTRUCTION		
(KK) (LL)	806+00.00 107.53' LT TO 806+00.00 132.53' LT	25.00' S 60° 05' 01" E
(LL) (MM)	806+00.00 132.53' LT TO 809+88.80 133.10' LT	387.49' S 29° 18' 50" W
(MM) (NN)	809+88.80 133.10' LT TO 809+75.01 108.09' LT	R= 250.00', T= 14.30' L= 28.57', D= 22°55'05.9"
(NN) (KK)	809+75.01 108.09' LT TO 806+00.00 107.53' LT	373.94' N 29° 18' 50" E

PARCEL 5 - TEMPORARY EASEMENT CONSTRUCTION		
(NN) (MM)	809+75.01 108.09' LT TO 809+88.80 133.10' LT	R= 250.00', T= 14.30' L= 28.57', D= 22°55'05.9"
(MM) (JJ)	809+88.80 133.10' LT TO 813+67.81 107.02'LT	361.06' S 29°18'50"W
(JJ) (VV)	813+67.81 107.02'LT TO 813+78.00 80.16'LT	28.58' N 89°40'07"W
(VV) (NN)	813+78.00 80.16'LT TO 809+75.01 108.09' LT	388.71' N 29°18'50"E

RIGHT OF WAY
SHEET 2 OF 4

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/28/2025
ROUTE	61/67
STATE	MO
DISTRICT	SL
SHEET NO.	10
COUNTY	JEFFERSON
JOB NO.	J6S3289
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A8737

DESCRIPTION
DATE

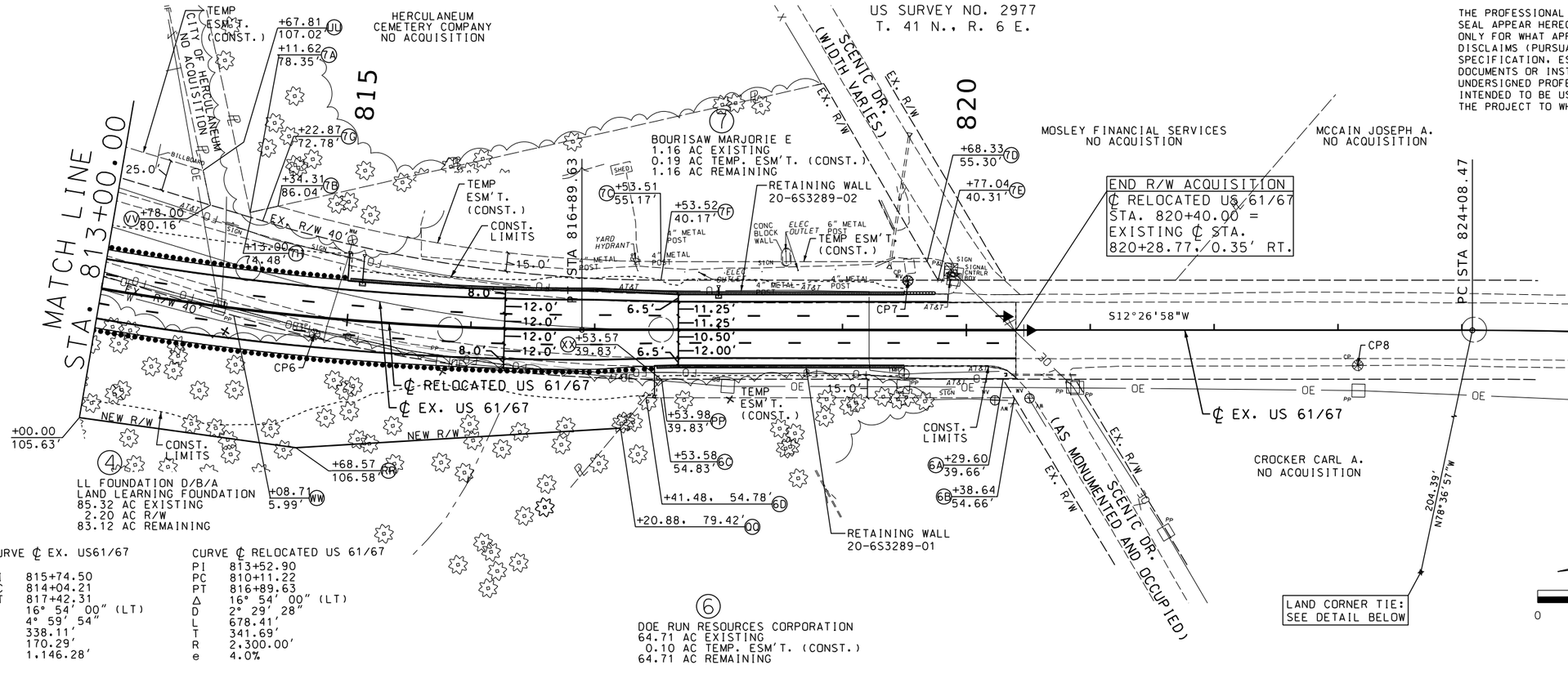
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CURVE ℄ EX. US61/67

PI	815+74.50
PC	814+04.21
PT	817+42.31
Δ	16° 54' 00" (LT)
D	4° 59' 54"
L	338.11'
T	170.29'
R	1,146.28'

CURVE ℄ RELOCATED US 61/67

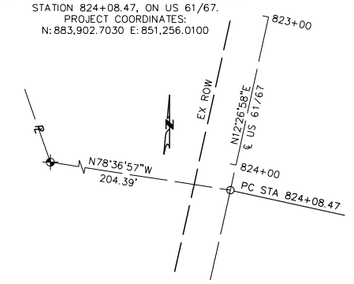
PI	813+52.90
PC	810+11.22
PT	816+89.63
Δ	16° 54' 00" (LT)
D	2° 29' 28"
L	678.41'
T	341.69'
R	2,300.00'
e	4.0%

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

PARCEL 4 - NEW R/W		
Y WW	809+22.35 28.06' RT TO 814+08.71 5.99' RT	485.42' S 29° 18' 50" W
WW XX	814+08.71 5.99' RT TO 817+53.57 39.83' RT	R= 1,186.28', T= 176.23' L= 349.91', D= 4°49'47.5"
XX PP	817+53.57 39.83' RT TO 817+53.98 39.83' RT	0.41' S 12° 24' 50" W
PP QQ	817+53.98 39.83' RT TO 817+20.88 79.42' RT	51.60' N 37° 39' 05" W
QQ RR	817+20.88 79.42' RT TO 814+68.57 106.58' RT	262.69' N 8° 56' 41" E
RR SS	814+68.57 106.58' RT TO 811+46.89 116.00' RT	337.11' N 20° 21' 56" E
SS TT	811+46.89 116.00' RT TO 807+60.57 112.05' RT	393.08' N 29° 18' 50" E
TT AA	807+60.57 112.05' RT TO 808+59.33 39.41' RT	122.59' S 6° 59' 03" E
AA Z	808+59.33 39.41' RT TO 809+19.97 24.45' RT	R= 250.00', T= 44.73' L= 88.53', D= 22°55'05.9"
Z Y	809+19.97 24.45' RT TO 809+22.35 28.06' RT	4.32' S 27° 16' 22" E

PARCEL 6 - TEMPORARY EASEMENT CONSTRUCTION		
PP 6A	817+53.57 39.83' RT TO 820+29.60 39.66' RT	275.63' S 12° 24' 50" W
6A 6B	820+29.60 39.66' RT TO 820+38.64 54.66' RT	17.51' S 71° 22' 55" W
6B 6C	820+38.64 54.66' RT TO 817+53.58 54.83' RT	285.06' N 12° 24' 50" E
6C 6D	817+53.58 54.83' RT TO 817+41.48 54.78' RT	R= 1,201.28', T= 6.05' L= 12.10', D= 4°46'10.4"
6D PP	817+41.48 54.78' RT TO 817+53.57 39.83' RT	19.48' S 37° 39' 05" E

PARCEL 7 - TEMPORARY EASEMENT CONSTRUCTION		
7H 7A	814+13.00 74.48' LT TO 814+11.62 78.35' LT	4.10' S 89° 40' 07" E
7A 7B	814+11.62 78.35' LT TO 814+34.31 86.04' LT	23.19' S 0° 16' 20" E
7B 7C	814+34.31 86.04' LT TO 817+53.51 55.17' LT	R= 1,091.28', T= 157.79' L= 313.41', D= 5°15'01.2"
7C 7D	817+53.51 55.17' LT TO 819+68.33 55.30' LT	214.82' S 12° 24' 50" W
7D 7E	819+68.33 55.30' LT TO 819+77.04 40.31' LT	17.34' S 72° 17' 40" W
7E 7F	819+77.04 40.31' LT TO 817+53.52 40.17' LT	223.52' N 12° 24' 50" E
7F 7G	817+53.52 40.17' LT TO 814+22.87 72.78' LT	R= 1,106.28', T= 164.35' L= 326.31', D= 5°10'44.9"
7G 7H	814+22.87 72.78' LT TO 814+13.00 74.48' LT	9.70' N 29° 18' 50" E



LAND CORNER TIE DETAIL

RIGHT OF WAY
SHEET 3 OF 4

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	11

COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

DATE	DESCRIPTION
06/2020	CM & MC
03/2025	CM & RA
03/2025	MGD

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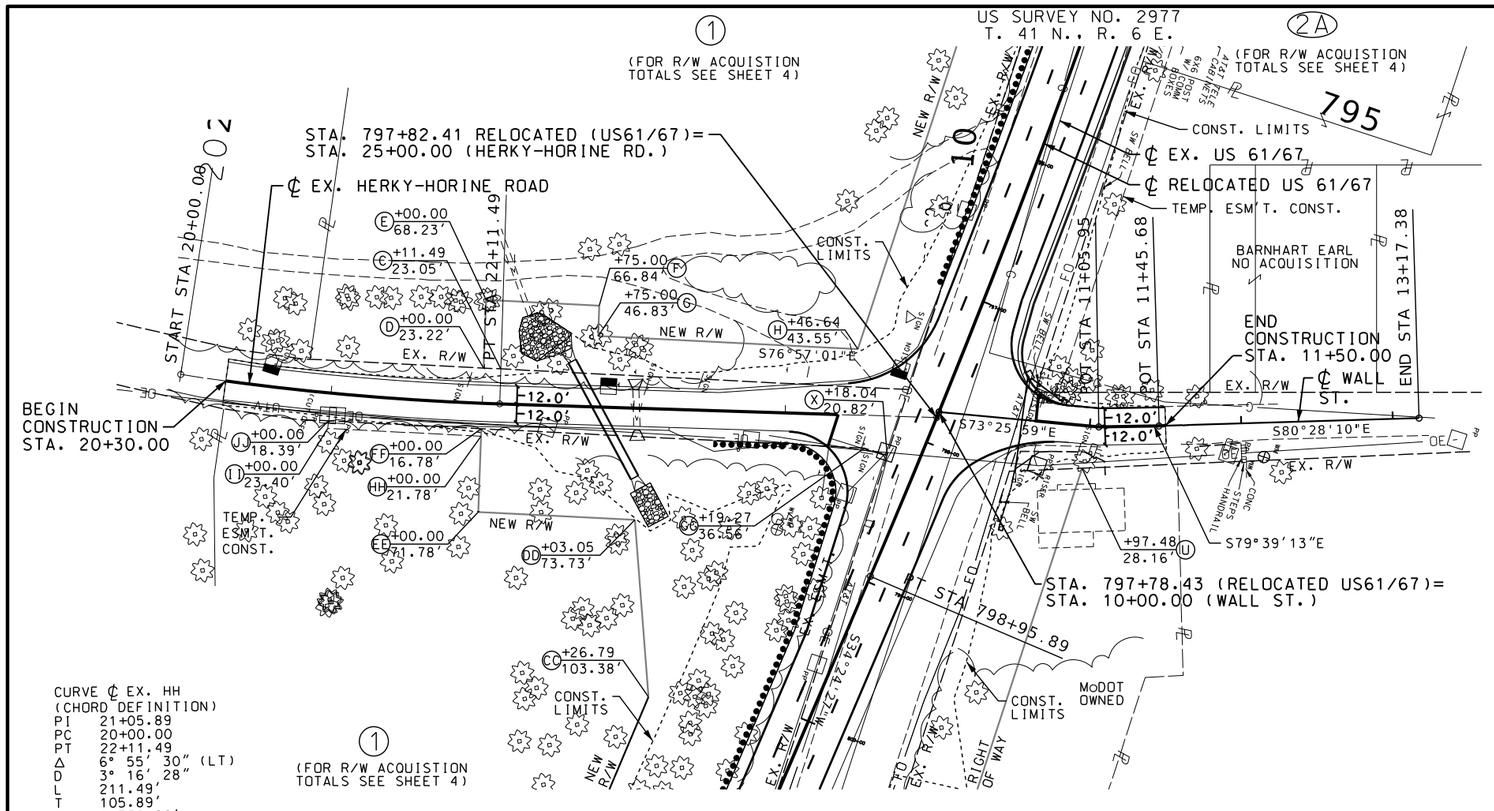
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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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CURVE ℄ EX. HH
(CHORD DEFINITION)
PI 21+05.89
PC 20+00.00
PT 22+11.49
Δ 6° 55' 30" (LT)
D 3° 16' 28"
L 211.49'
T 105.89'
R 1,750.00'

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

PARCEL 1 - TEMPORARY EASEMENT CONSTRUCTION		
FF HH	22+00.00 16.78' RT TO 22+00.00 21.78' RT	5.00' S 13°25'34" W
HH II	22+00.00 21.78' RT TO 21+00.00 23.40' RT	101.30' N 75°51'10" W
II JJ	21+00.00 23.40' RT TO 21+00.00 18.39' RT	5.00' N 16°42'02" E
JJ FF	21+00.00 18.39' RT TO 22+00.00 16.78' RT	101.02' S 75°51'10" E

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SCALE
0 50 100 150

RIGHT OF WAY
SHEET 4 OF 4

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67
STATE MO
DISTRICT SL
SHEET NO. 12
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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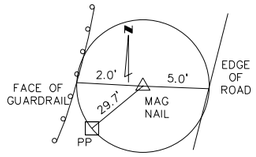
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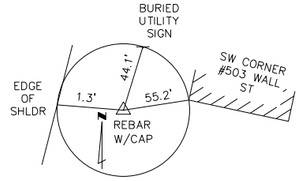
LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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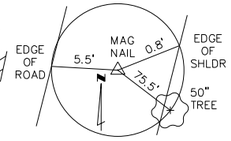
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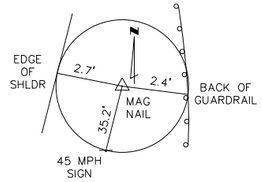
REFERENCE TIE
CONTROL POINT #1
MAGNAIL NORTH OF HERKY-HORINE RD
ON WEST SIDE OF ROUTE 61
N 886533.220
E 852650.922
ELEV 419.10



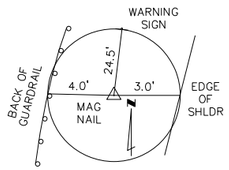
REFERENCE TIE
CONTROL POINT #2
REBAR W/CAP SOUTH OF WALL ST ON
EAST SIDE OF ROUTE 61
N 886144.860
E 852498.810
ELEV 403.18



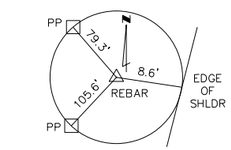
REFERENCE TIE
CONTROL POINT #3
MAGNAIL SOUTH OF WALL ST ON
EAST SIDE OF ROUTE 61
N 885811.032
E 852308.752
ELEV 401.75



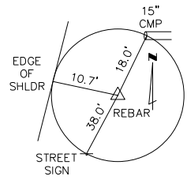
REFERENCE TIE
CONTROL POINT #4
MAGNAIL NORTH OF BRIDGE ON
WEST SIDE OF ROUTE 61
N 885399.517
E 852015.837
ELEV 401.73



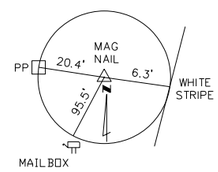
REFERENCE TIE
CONTROL POINT #5
MAGNAIL SOUTH OF BRIDGE ON
EAST SIDE OF ROUTE 61
N 885054.647
E 851880.881
ELEV 401.26



REFERENCE TIE
CONTROL POINT #6
REBAR SOUTH OF BRIDGE ON WEST
SIDE OF ROUTE 61
N 884775.747
E 851654.150
ELEV 404.96



REFERENCE TIE
CONTROL POINT #7
REBAR NORTH OF SCENIC DR ON
EAST SIDE OF ROUTE 61
N 884298.730
E 851593.512
ELEV 415.74



REFERENCE TIE
CONTROL POINT #8
MAGNAIL SOUTH OF SCENIC DR ON
WEST SIDE OF ROUTE 61
N 883958.754
E 851448.660
ELEV 425.34

REFERENCE POINTS
SHEET 1 OF 1

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	GEOID 12B
ELEVATIONS DETERMINED BY	MODOT VRS
PROJECT PROJECTION FACTOR	1.0000878

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	STATE PLANE MO EAST FIPS 2401
CONTROL STATION	MOFE
DESIGNATION	MODOT FESTUS CORS ARP
CORS_ID	MOFE
PID	DL6016
LATITUDE	N35°48'05.42072"
LONGITUDE	W93°15'56.38674"
NORTHING (M)	262060.539
EASTING (M)	259703.988
ZONE	2401 (MO-EAST)
PROJECT AVERAGE GRID FACTOR	0.99991221

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #1
N 886533.220 X 0.99991221 = N 886455.389
E 852650.922 X 0.99991221 = E 852576.066

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
4	794+52.47		25.86' RT	886,533.220	852,650.922	419.095	CP 1 MAGNAIL, ℄ RELOCATED US 61/67 ALIGNMENT	
4	798+61.13		53.68' LT	886,144.860	852,498.810	403.175	CP 2 REBAR, ℄ RELOCATED US 61/67 ALIGNMENT	
5	802+45.84		83.19' LT	885,811.032	852,308.752	401.745	CP 3 MAGNAIL, ℄ RELOCATED US 61/67 ALIGNMENT	
5	807+53.56		42.53' LT	885,399.517	852,015.837	401.725	CP 4 MAGNAIL, ℄ RELOCATED US 61/67 ALIGNMENT	
5	811+24.87		91.23' LT	885,054.647	851,880.881	401.255	CP 5 MAGNAIL, ℄ RELOCATED US 61/67 ALIGNMENT	
6	814+74.90		13.87' RT	884,775.747	851,654.150	404.955	CP 6 REBAR, ℄ RELOCATED US 61/67 ALIGNMENT	
6	819+52.80		39.83' LT	884,298.730	851,593.512	415.735	CP 7 REBAR, ℄ RELOCATED US 61/67 ALIGNMENT	
6	823+16.01		28.32' RT	883,958.754	851,448.660	425.335	CP 8 MAGNAIL, ℄ RELOCATED US 61/67 ALIGNMENT	

SHEET NO	STATION	LOCATION	NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
ALIGNMENTS							
N/A	790+00.00	℄ EX. US 61/67	886,944.601	852,912.546		POT	1890
4	790+69.32 BK	℄ EX. US 61/67	886,884.158	852,878.608		POT STATION EQUATION	STAEQU2
4	790+33.07 AH	℄ EX. US 61/67	886,884.158	852,878.608		POT STATION EQUATION	STAEQU2
6	814+04.21	℄ EX. US 61/67	884,816.643	851,717.715		PC	X
6	815+74.50	℄ EX. US 61/67	884,668.158	851,634.342		PI	X
6	817+42.31	℄ EX. US 61/67	884,501.850	851,597.734		PT	X
6	823+98.63	℄ EX. US 61/67	883,860.874	851,456.644		PT	1891
N/A	825+65.13	℄ EX. US 61/67	883,699.088	851,417.316		PT	1892
N/A	770+77.74	℄ EX. NORTH US 61/67	888,802.075	852,833.995		PC	X
8	774+83.06	℄ EX. NORTH US 61/67	888,458.168	853,048.505		PI	X
8	778+67.58	℄ EX. NORTH US 61/67	888,052.854	853,051.053		PT	X
8	784+15.98	℄ EX. NORTH US 61/67	887,504.465	853,054.501		POT	1411
4	790+09.80	℄ RELOCATED US 61/67	886,905.033	852,891.630		POT	X
4	793+00.00	℄ RELOCATED US 61/67	886,652.082	852,749.393		PC, BEGIN IMPROVEMENTS	X
4	795+98.14	℄ RELOCATED US 61/67	886,392.210	852,603.264		PI	X
4 & 7	798+95.89	℄ RELOCATED US 61/67	886,146.234	852,434.793		PT	X
4	800+70.89	℄ RELOCATED US 61/67	886,001.853	852,335.904		PC	X
5	803+69.03	℄ RELOCATED US 61/67	885,755.877	852,167.433		PI	X
5	806+66.78	℄ RELOCATED US 61/67	885,496.005	852,021.304		PT	X
5	810+11.22	℄ RELOCATED US 61/67	885,195.777	851,852.482		PC	X
6	813+52.90	℄ RELOCATED US 61/67	884,897.948	851,685.010		PI	X
6	816+89.63	℄ RELOCATED US 61/67	884,564.297	851,611.349		PT	X
6	820+40.00	℄ RELOCATED US 61/67	884,222.164	851,535.816		POT, END IMPROVEMENTS	X
6	824+08.47	℄ RELOCATED US 61/67	883,862.358	851,456.382		PC	X
N/A	826+10.33	℄ RELOCATED US 61/67	883,665.246	851,412.865		PI	X
N/A	828+11.81	℄ RELOCATED US 61/67	883,473.819	851,348.816		PT	X
7	20+00.00	℄ PR. HERKY-HORINE ROAD	886,365.619	852,014.398		PC	X
7	20+30.00	℄ PR. HERKY-HORINE ROAD	886,355.604	852,042.704		BEGIN IMPROVEMENTS	X
7	21+05.89	℄ PR. HERKY-HORINE ROAD	886,329.446	852,113.916		PI	X
7	22+11.49	℄ PR. HERKY-HORINE ROAD	886,305.537	852,217.071		PT	X
4 & 7	25+00.00	℄ PR. HERKY-HORINE ROAD	886,240.392	852,498.126		POT END IMPROVEMENTS	X
4 & 7	10+00.00	℄ PROP. WALL STREET	886,243.713	852,500.318		POT	X
4 & 7	11+05.95	℄ PROP. WALL STREET	886,213.502	852,601.874		PI	X
4 & 7	11+45.68	℄ PROP. WALL STREET	886,206.367	852,640.953		PI	X
4 & 7	11+50.00	℄ PROP. WALL STREET	886,205.652	852,645.214		POT & END IMPROVEMENTS	X
7	13+17.38	℄ PROP. WALL STREET	886,177.938	852,810.283		POT	X

COORDINATE POINTS
SHEET 1 OF 1

LAYOUT	CM. & MC	06/2020
DRAWN	CM. & RA.	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004008786
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 14
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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SCALE
0 10 20 30

STA. 24+99.83
66.37' LT
ELEV. 412.15

STA. 24+86.30
46.70' LT
ELEV. 411.82

STA. 24+40.76
22.49' LT
ELEV. 410.27

68' R

70' R

10

STA. 23+55.86
14.00' LT
ELEV. 406.92

STA. 23+55.96
12.00' LT
ELEV. 407.00

STA. 24+40.96
20.50' LT
ELEV. 410.35

℄ WALL STREET

S 76° 57' 01" E ℄ EX. HERKY-HORINE ROAD

STA. 24+03.06
12.00' LT
ELEV. 408.88

EARTH SHOULDER | A 2 SHOULDER

STA. 23+23.72
14.00' RT
ELEV. 405.63

4%

4%

40' R

STA. 23+53.72
27.00' RT
ELEV. 406.61

STA. 24+03.06
20.00' RT
ELEV. 408.56

32' R

STA. 24+33.87
60.63' RT
ELEV. 411.33

4%

STA. 24+41.57
62.79' RT
ELEV. 411.65

℄ RELOCATED US 61/67

SPECIAL SHEET
SHEET 1 OF 3

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO

DISTRICT	SHEET NO.
SL	15

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

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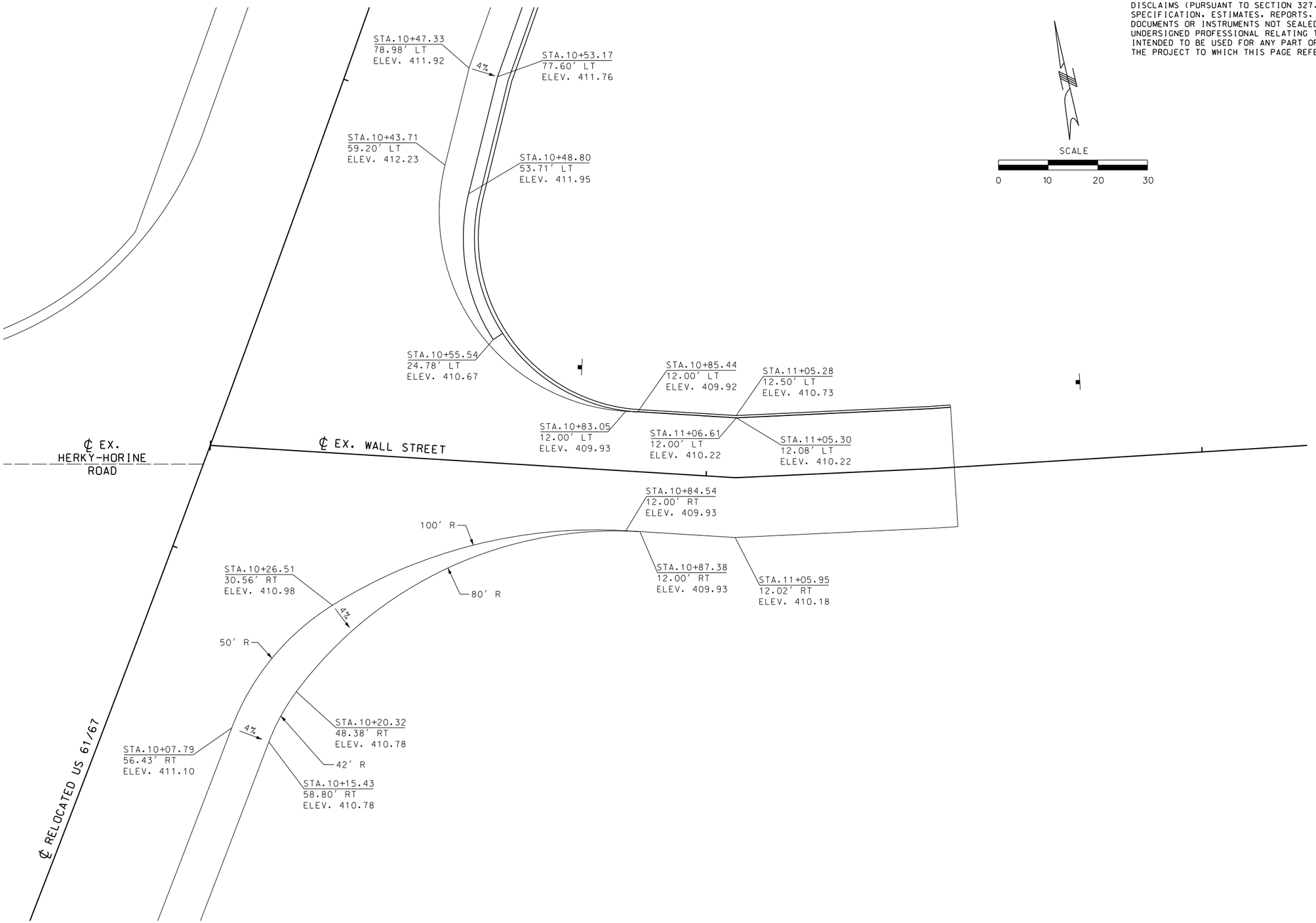
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JEFFERSON CITY, MO 65102
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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

SPECIAL SHEET
SHEET 2 OF 3

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

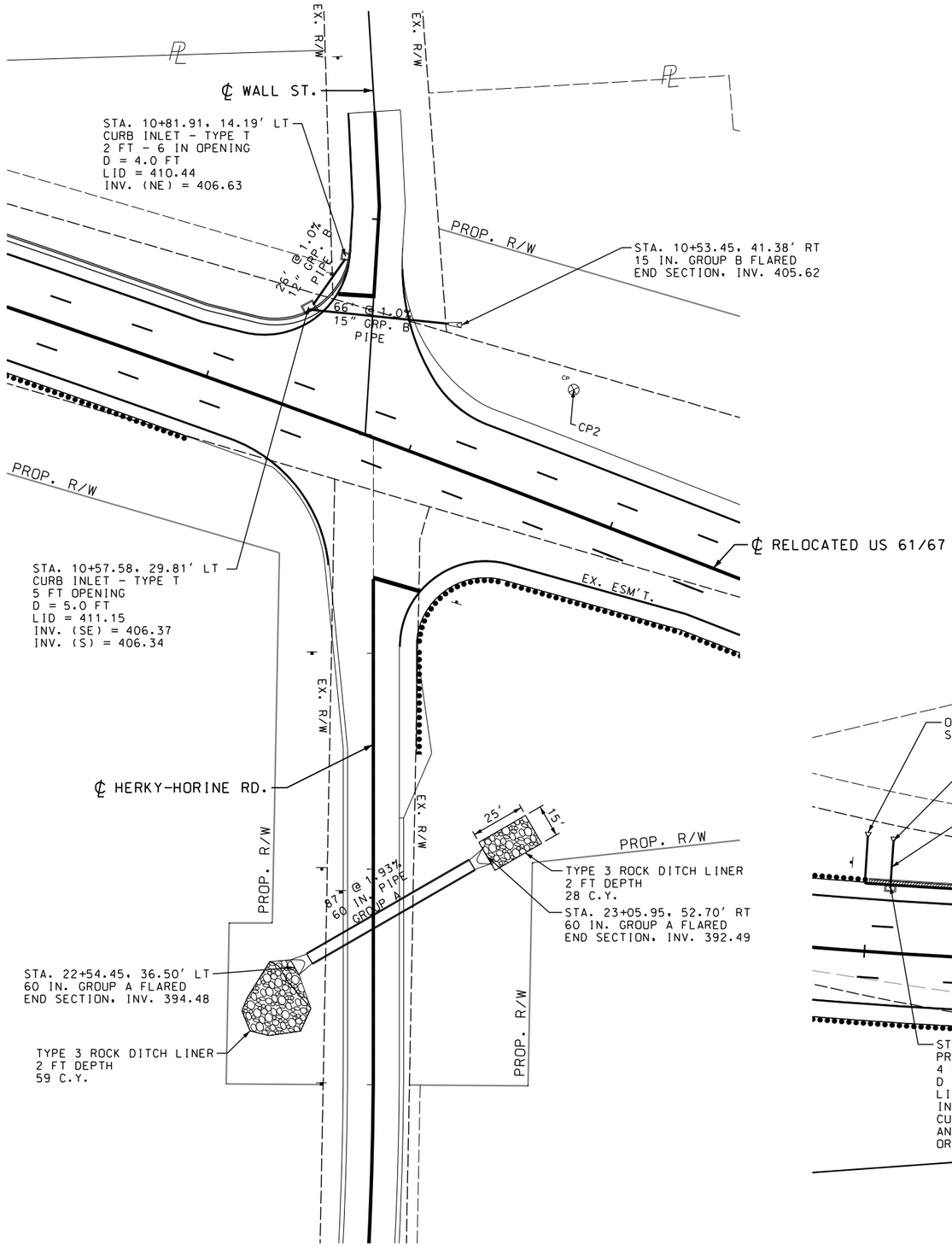
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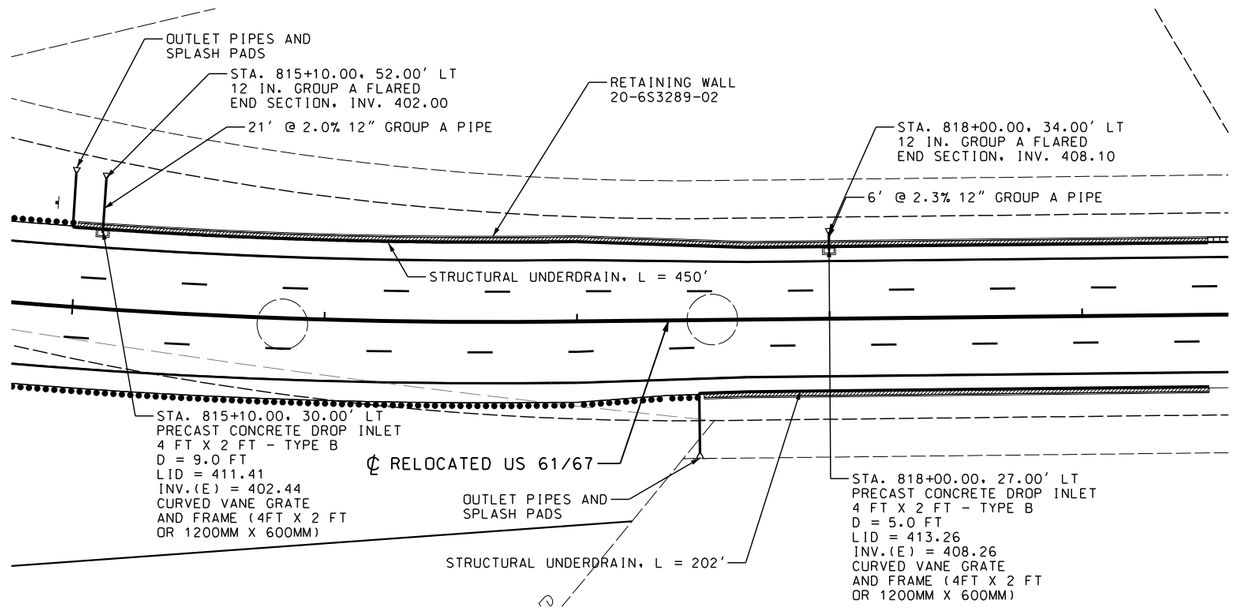
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SPECIAL SHEET
SHEET 3 OF 3

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SCALE
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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED	
3/28/2025	
ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	17
COUNTY	
JEFFERSON	
JOB NO.	
J6S3289	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A8737	

DESCRIPTION	DATE
	4

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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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CLOSURE DETAIL (NTS)







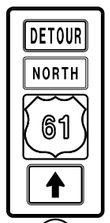


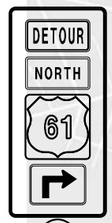


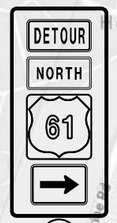






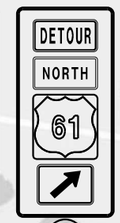




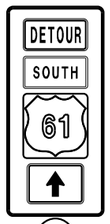


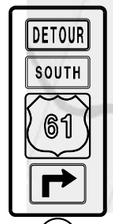


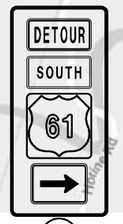


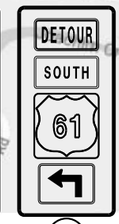


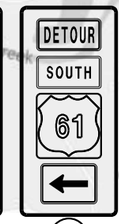


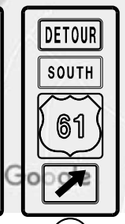


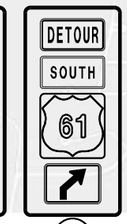


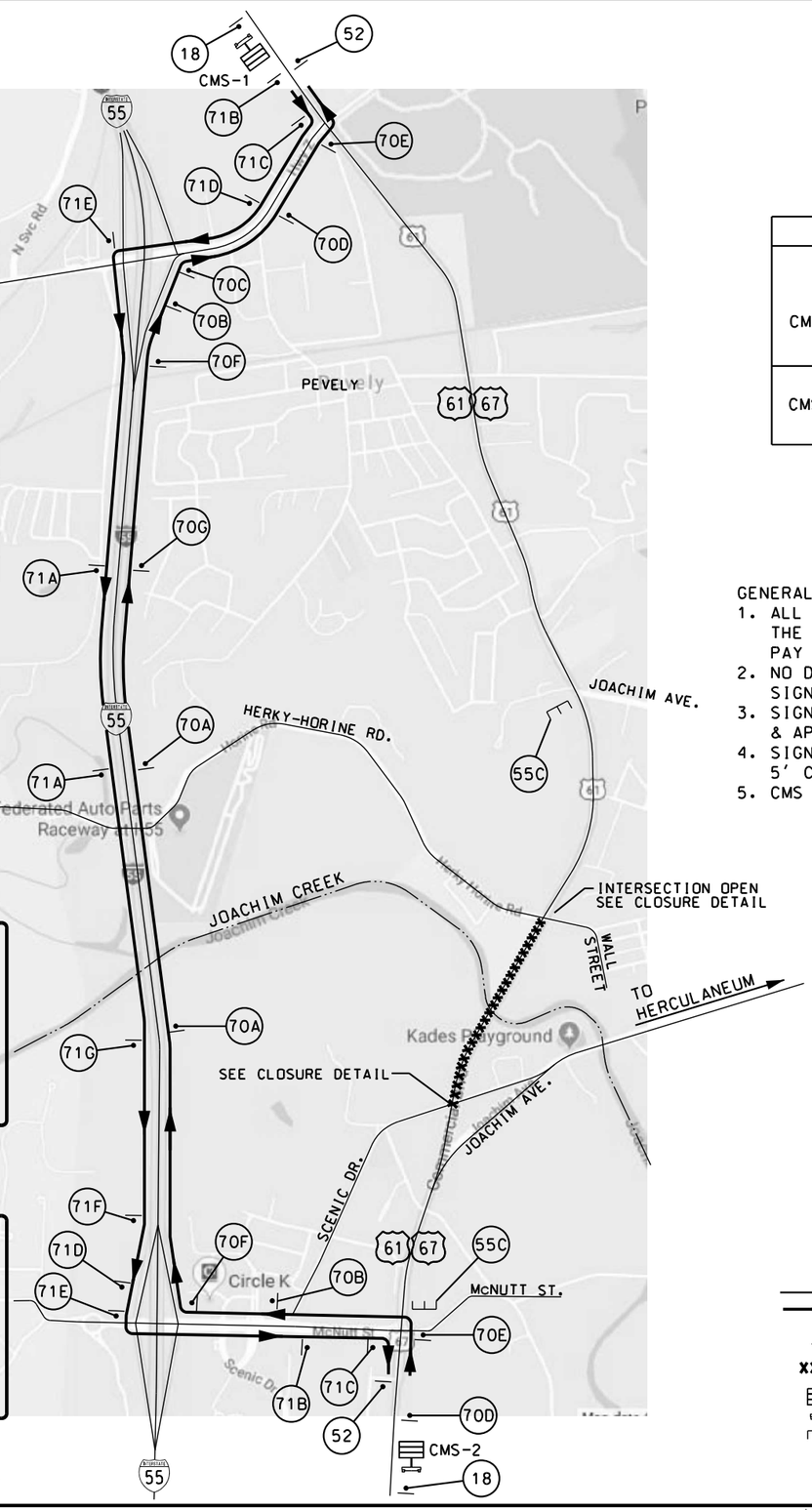












GENERAL TRAFFIC CONTROL PLAN NOTES:

1. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
2. NO DIRECT PAY FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.
3. SIGN & DEVICE LOCATIONS WILL BE VERIFIED & APPROVED BY THE ENGINEER.
4. SIGNS PLACED AS TO NOT BLOCK SIDEWALKS. MAINTAIN 5' CLEARANCE FOR PEDESTRIANS.
5. CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

CHANGEABLE MESSAGE BOARD		
	DISPLAY 1	DISPLAY 2
CMS-1	61/67 CLOSED @ HERKY RD	USE POSTED DETOUR
CMS-2	61/67 CLOSED @ SCENIC DR	USE POSTED DETOUR

LEGEND

- DETOUR ROUTE
- DETOUR SIGN
- XXXX CLOSED ROAD/BRIDGE
- CHANGEABLE MESSAGE BOARD
- TYPE III MOVABLE BARRICADE

N.T.S.

US-61/67
DETOUR SIGNING PLAN

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	18

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

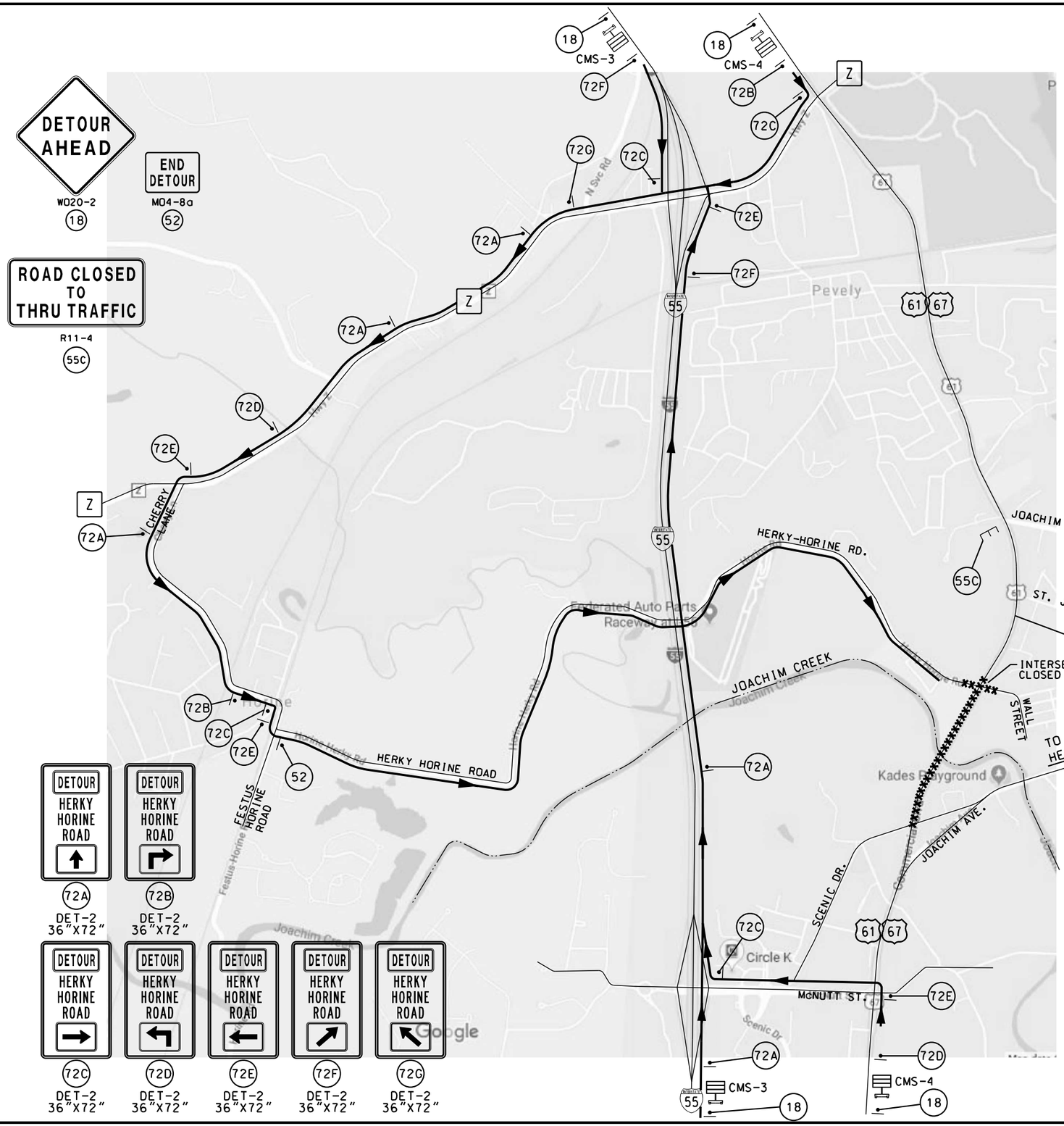
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CHANGEABLE MESSAGE BOARD		
	DISPLAY 1	DISPLAY 2
CMS-3	RACEWY/ HERKY-HORINERD	USE POSTED DETOUR
CMS-4	HERKY-HORINERD CLOSED	USE POSTED DETOUR

GENERAL TRAFFIC CONTROL PLAN NOTES:
1. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE PROPOSED TCP SHALL BE COVERED. NO DIRECT PAY TO COVER/UNCOVER EXISTING SIGNS.
2. NO DIRECT PAY FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.
3. SIGN & DEVICE LOCATIONS WILL BE VERIFIED & APPROVED BY THE ENGINEER.
4. SIGNS PLACED AS TO NOT BLOCK SIDEWALKS. MAINTAIN 5' CLEARANCE FOR PEDESTRIANS.
5. CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND
- DETOUR ROUTE
- DETOUR SIGN
- XXXX CLOSED ROAD/BRIDGE
- CHANGEABLE MESSAGE BOARD
- TYPE III MOVABLE BARRICADE

N.T.S.

HERKY HORINE INTERSECTION DETOUR SIGNING PLAN

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER
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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	19

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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ROAD WORK
NEXT 1 MILES

GO20-1

(1)

ROAD
WORK
AHEAD

WO20-1

(2)

SPEED
LIMIT
35

WO3-5

(3)

WORKZONE
NO PHONE
ZONE

CONST-8

(59)

2
RIGHT LANES
CLOSED
AHEAD

WO20-5a

(5A)

RIGHT
LANE
CLOSED

W20-6a

(6A)

(54) GO20-5aP

WORK
ZONE

(4) R2-1

SPEED
LIMIT
35

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKERS
- FLASHING ARROW PANEL

NOTES:

SEE EPG 616.12 "WORK ZONE SPEED LIMITS" FOR SPEED LIMIT GUIDELINES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A LANE IS CLOSED.

SIGN & DEVICE (DEV.) LOCATION WILL BE VERIFIED & APPROVED BY THE ENGINEER.

TRAFFIC CONTROL
SHEET 1 OF 8

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

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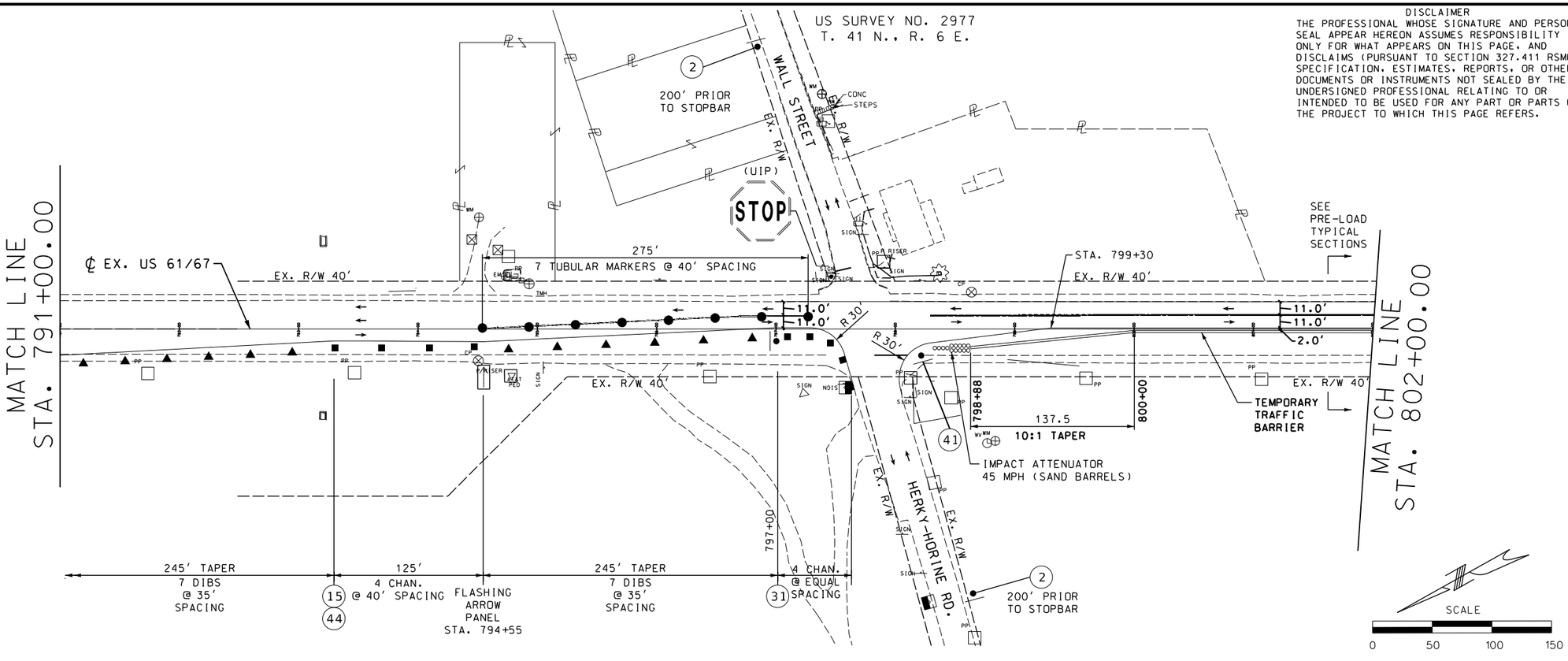
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NOTES:

STATIONING BASED ON EXISTING US61/67 ALIGNMENT

SEE EPG 616.12 "WORK ZONE SPEED LIMITS" FOR SPEED LIMIT GUIDELINES.

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

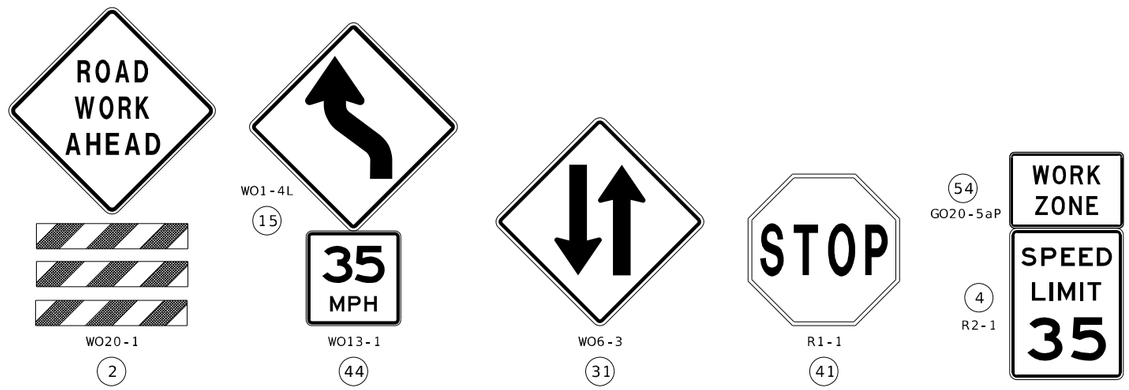
TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM. REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

A FLASHING ARROW BOARD SHALL BE USED WHEN A LANE IS CLOSED.

SIGN & DEVICE (DEV.) LOCATION WILL BE VERIFIED & APPROVED BY THE ENGINEER.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKERS
- FLASHING ARROW PANEL

TRAFFIC CONTROL
SHEET 2 OF 8

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	21

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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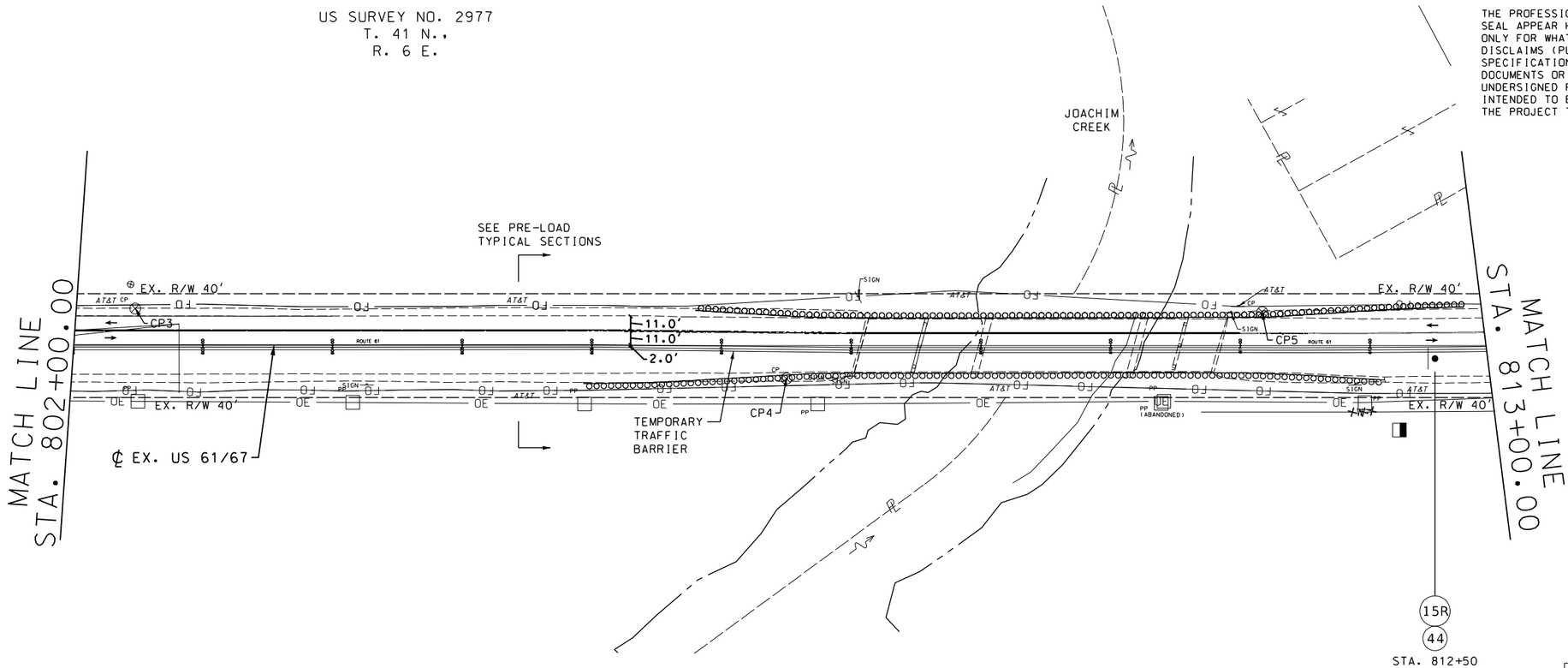
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US SURVEY NO. 2977
T. 41 N.,
R. 6 E.





TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKERS
- FLASHING ARROW PANEL

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED: 3/28/2025
ROUTE: 61/67 | STATE: MO
DISTRICT: SL | SHEET NO.: 22
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

DESCRIPTION	DATE

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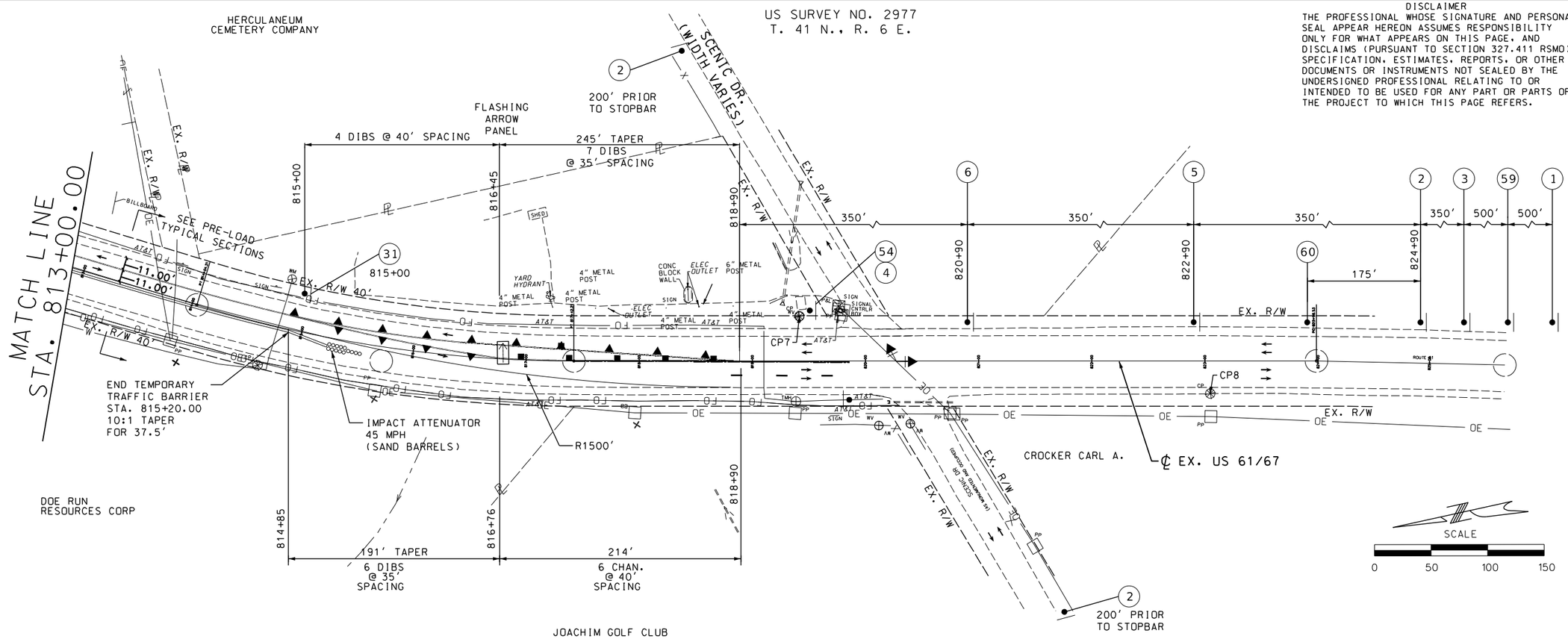
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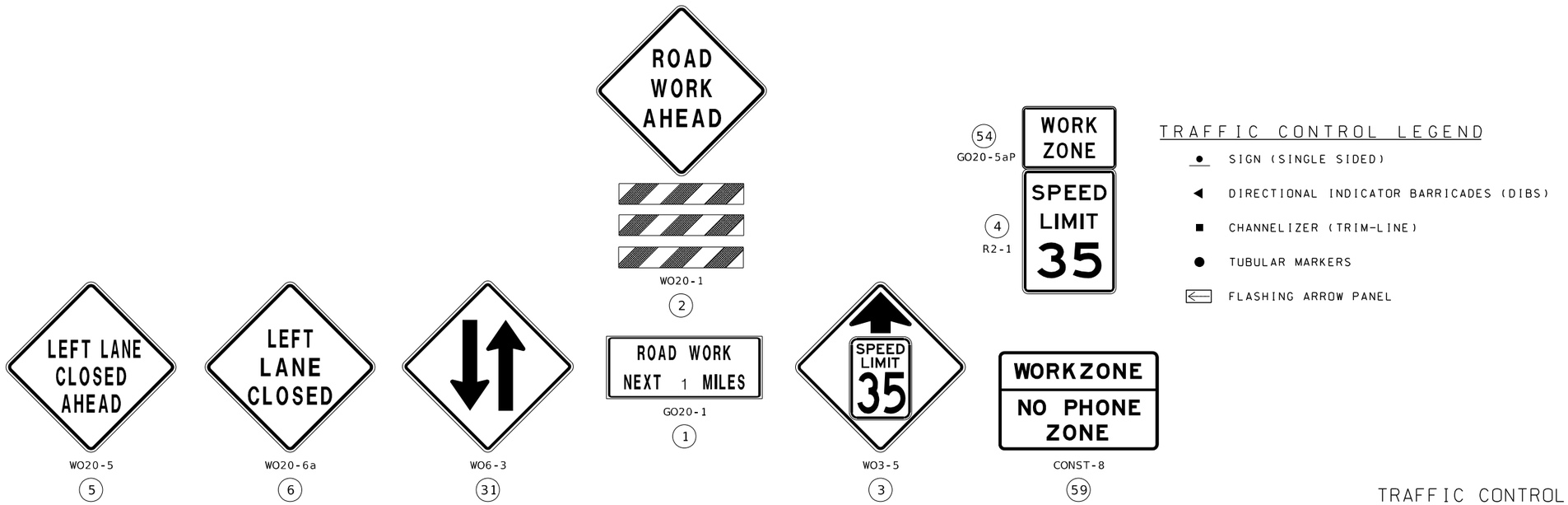
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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

TRAFFIC CONTROL
SHEET 3 OF 8

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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADES (DIBS)
- CHANNELIZER (TRIM-LINE)
- TUBULAR MARKERS
- FLASHING ARROW PANEL

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	23

COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

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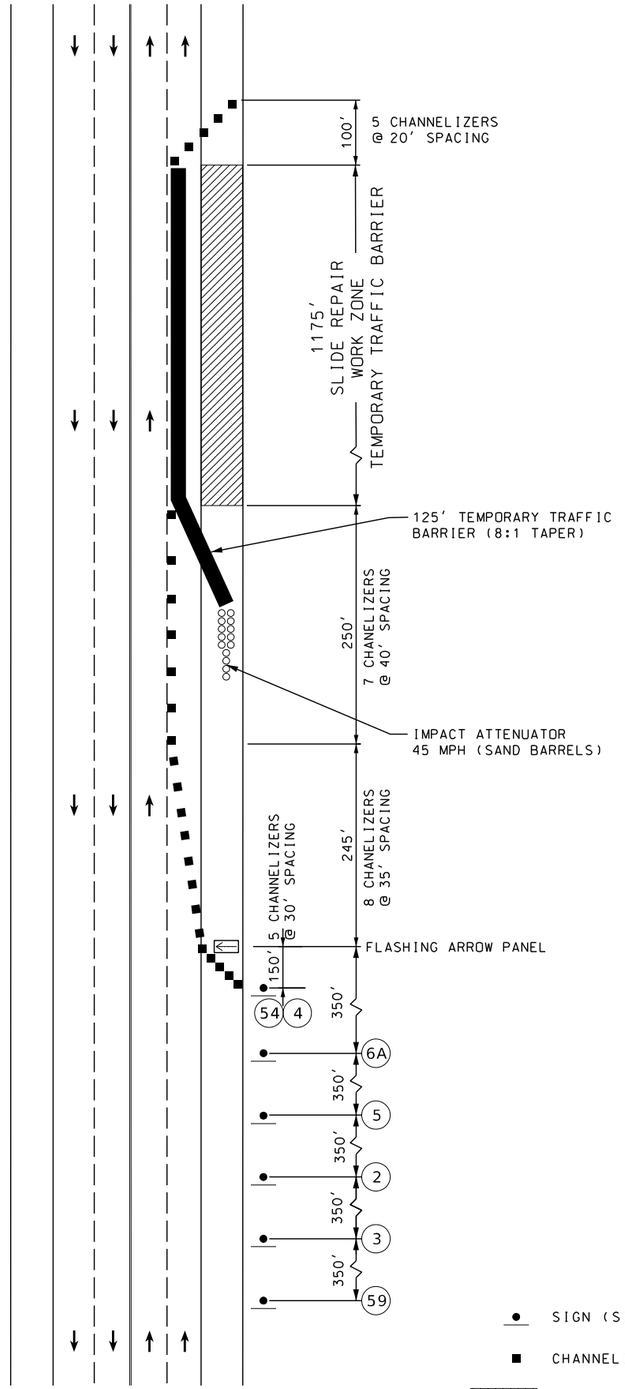
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DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

TRAFFIC CONTROL
SHEET 4 OF 8

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LANE CLOSURE WITH
TEMPORARY TRAFFIC BARRIER



WO20-1
(2)



WO3-5
(3)

(54) GO20-5aP

(4) R2-1





WO20-5
(5)



WO20-6a
(6)



CONST-8
(59)

NOTES:

PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAY.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SEE EPG 616.12 "WORK ZONE SPEED LIMITS" FOR SPEED LIMIT GUIDELINES.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

SIGN & DEVICE (DEV.) LOCATION WILL BE VERIFIED & APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM-LINE)
- WORK AREA
- FLASHING ARROW PANEL
- IMPACT ATTENUATOR (SAND BARRELS)

NOT TO SCALE

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TRAFFIC CONTROL
SLIDE REPAIR DETAIL
SHEET 5 OF 8

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	24

COUNTY JEFFERSON

JOB NO. J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A8737

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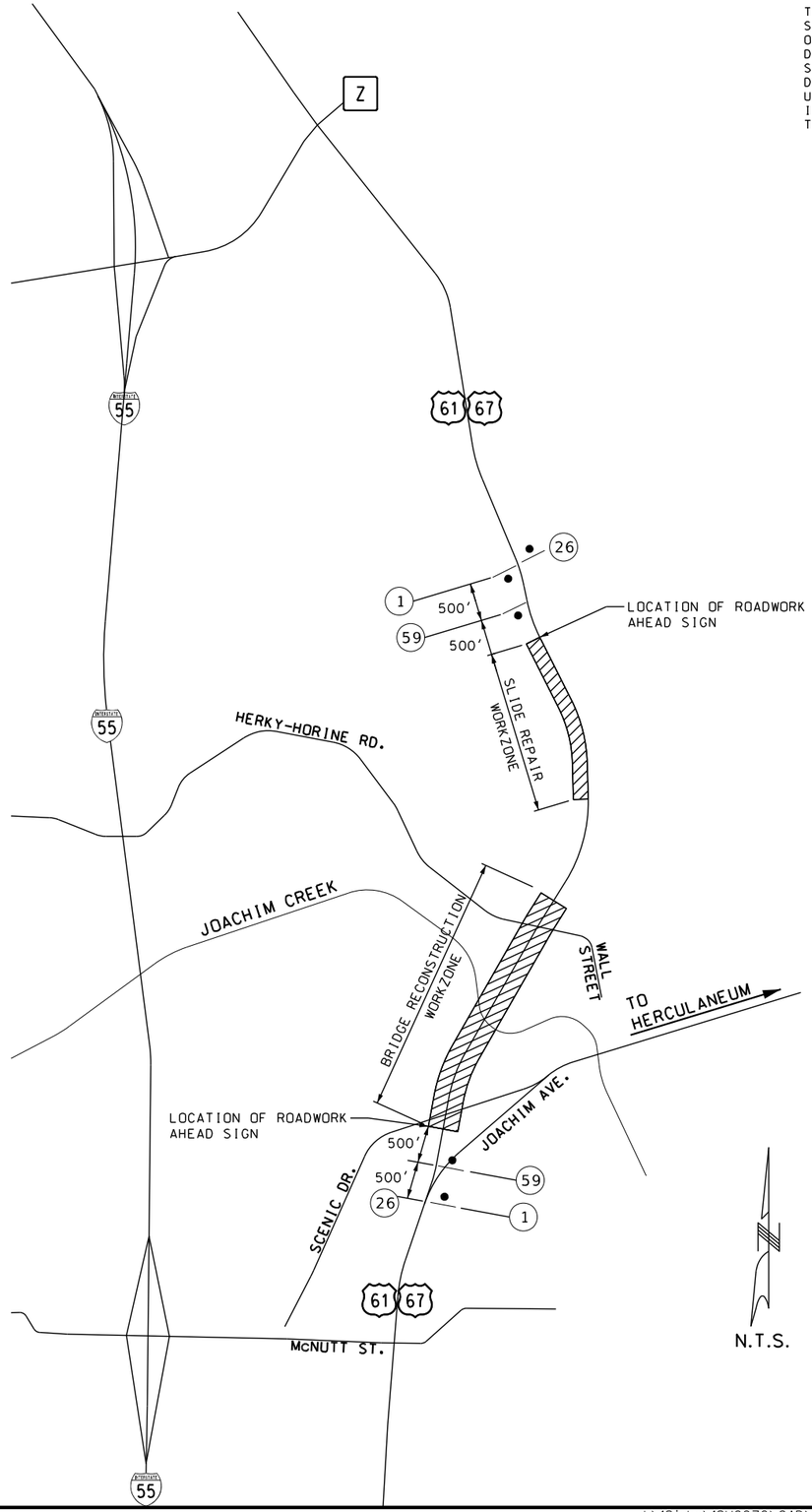
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ROAD WORK
NEXT 1 MILES
GO20-1
1

WORKZONE
NO PHONE ZONE
CONST-8
59

END
ROAD WORK
GO20-2
26

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

TRAFFIC CONTROL
SHEET 6 OF 8

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	25

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

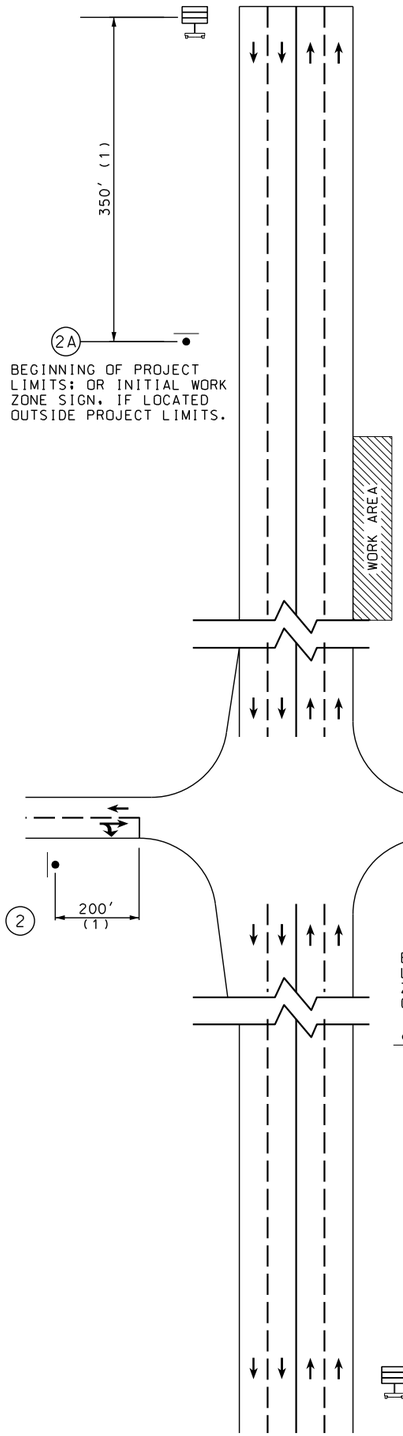
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BEGIN/END OF PROJECT SIGNING
MULTI-LANE
NOT TO SCALE



SIGN WITH ADVANCE WARNING RAIL SYSTEM (AWRS) MUST BE GROUND OR SKID MOUNTED.



SIGN SPACING FOR ADVANCE SIGN SERIES		
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (S)	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA-1000' SB-1500' SC-2640'

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADES
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK AREA
- PROTECTIVE VEHICLE WITH TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
3. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL ENCOUNTERED WITHIN THE NEXT ½ MILE.
4. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
5. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
6. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
7. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
10. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED, EXCEPT WHEN REQUIRED TO COMPLETE TIE IN WORK AT SCENIC DRIVE AND HERKY HORINE ROAD / WALL STREET.
11. SPACING AND DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	26

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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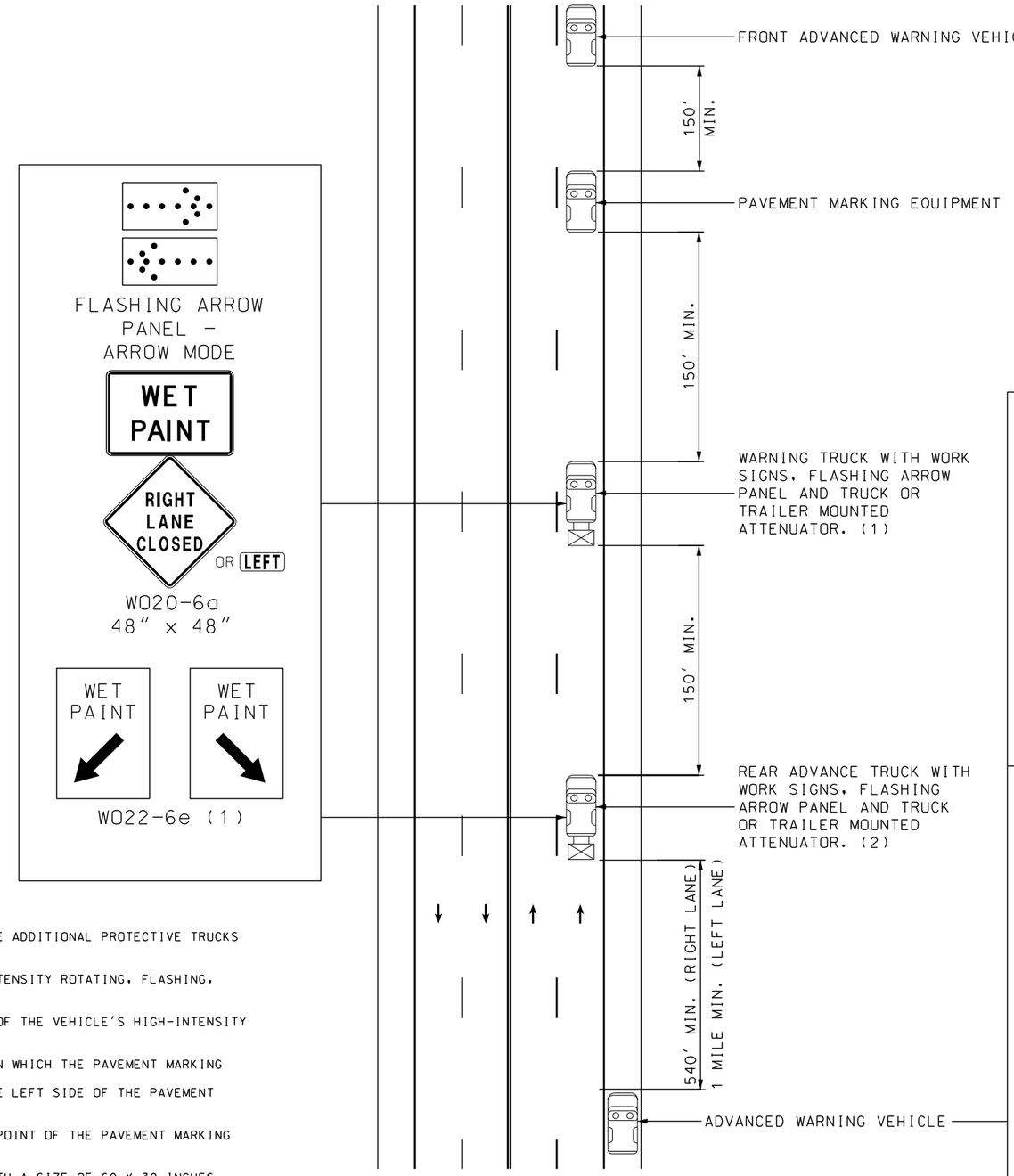
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TRAFFIC CONTROL
SHEET 7 OF 8

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TA-35M

RIGHT OR LEFT LANE CLOSED WITH RIGID SHOULDER - MULTI-LANE HIGHWAY



MULTI-LANE DIVIDED HIGHWAY

NOTES:

UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.

VEHICLE HAZARD WARNING LIGHTS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION,
A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROCESS.

A FLASHING ARROW BOARD SHALL BE USED WHEN A HIGHWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE IS CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH LANE.

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED: 3/28/2025
ROUTE: 61/67 | STATE: MO
DISTRICT: SL | SHEET NO.: 27
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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NOT TO SCALE

TRAFFIC CONTROL DETAIL
SHEET 8 OF 8

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RECEIVING WATERS
JOACHIM CREEK
MISSISSIPPI RIVER

SCALE
0 50 100 150

795
580°28
579+3
℄ WALL ST.
S80°28'10"E
EX. R/W
CONC STEPS HANDRAIL
793+00.00
104.05' RT
TEMP. ESM'T. CONST.
793+25.84
104.11' RT
794+35.03
55.49' RT
CONST. LIMITS
CURB INLET CHECK (2)
POT STA 11+45.68
POT STA 11+05.95
WING WALLS
FL 396.72
HEADWALL
AT&T TELE CABINETS
6X6 POST W/ COMM BOXES
SW BELL
TEMP. ESM'T. CONST.
EX. R/W 40'
PC STA 793+00.00
CP1
ROUTE 61
HEADWALL
FL 397.09
WING WALLS
NEW R/W
CONST. LIMITS
794+88.57
78.23' RT
794+62.64
105.21' RT
797+59.98
65.16' RT
EX. R/W 140'
792+99.19
103.46' RT
10
800
10+81.54
30.33' RT
800+00.00
113.46' LT
801+05.60
84.53' LT
NEW BOUNDARY
CONST. LIMITS
798+95.89
800+70.89
℄ RELOCATED US 61/67
℄ EX. US 61/67
S29°18'50"W
S34°24'27"W
EX. R/W 40'
799+38.75
32.94' RT
799+48.00
88.52' RT
NEW R/W
CONST. LIMITS
800+26.79
103.38' RT
23+02.95
73.73' RT
TYPE 2 ROCK BLANKET
805
806+00.00
107.53' LT
MATCH LINE
STA. 806+00.00
℄ HERKY-HORINE RD.
S 16° 57' 01" E
EX. R/W
NEW R/W
48" METAL FES FL 394.42
48" RCP
36" RCP FL 395.42
22+74.90
46.83' LT
22+74.90
66.84' LT
TYPE 3 ROCK DITCH LINE
CONST. LIMITS
21+99.92
71.78' RT
TYPE 3 ROCK DITCH LINE
PT STA 21+13.44
36" RCP FL 395.50
21+99.92
68.23' LT
21+99.92
23.23' LT
21+99.92
16.78' RT
(CULVERT OUTLET)
20
START STA 20+00.00
20+32.42
21.57' LT
20+30.46
18.42' RT

TEMPORARY EROSION CONTROL LEGEND

- CURB INLET CHECK
- TEMPORARY BERM TYPE C
- SILT FENCE
- ROCK BLANKET / ROCK DITCH LINER
- TYPE 4 EROSION CONTROL BLANKET

LAYOUT	CM & MC	06/2020
DRAWN	CM & PA	03/2025
REVIEWED	MCD	03/2025

EROSION CONTROL
SHEET 1 OF 3

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 28
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

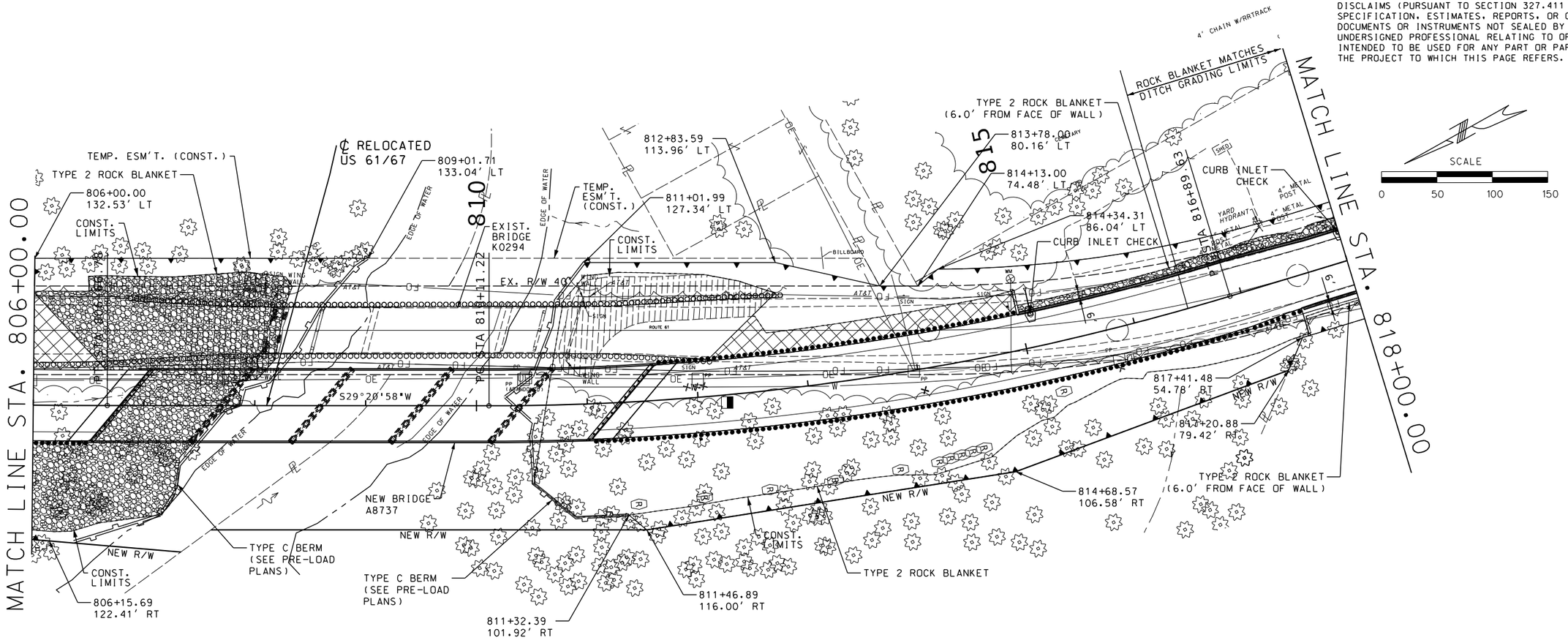
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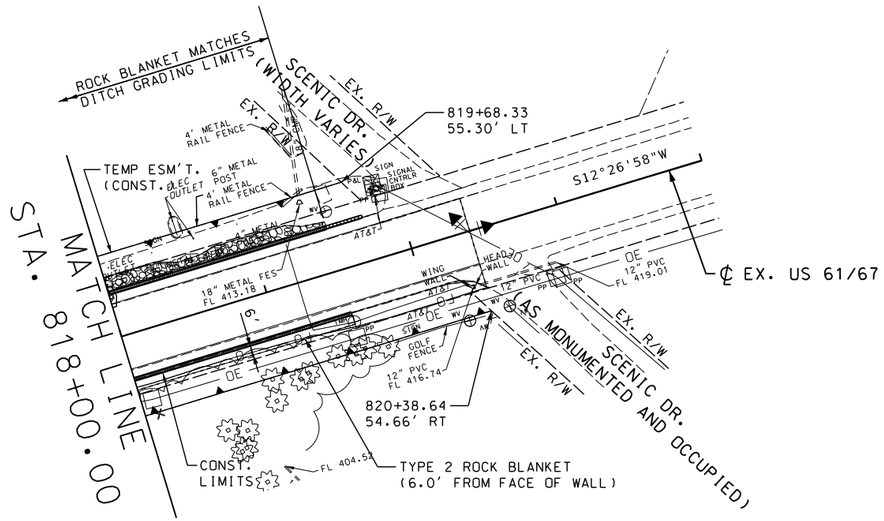
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TEMPORARY EROSION CONTROL LEGEND

- CURB INLET CHECK
- TEMPORARY BERM TYPE C
- SILT FENCE
- ROCK BLANKET / ROCK DITCH LINER
- TYPE 4 EROSION CONTROL BLANKET

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	02/2025
REVIEWED	MCD	02/2025

SCALE
0 50 100 150

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	29

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JOB NO. J6S3289
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PROJECT NO.
BRIDGE NO. A8737

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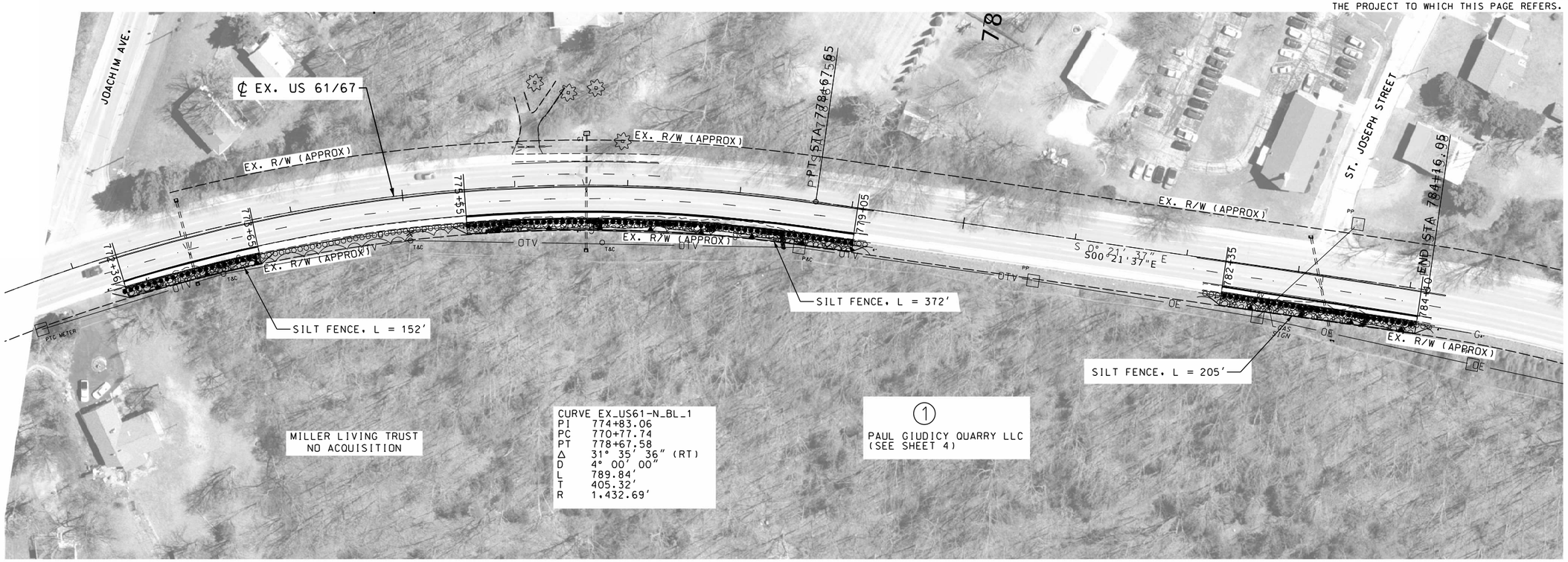
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EROSION CONTROL
SHEET 2 OF 3

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US SURVEY NO. 2977
T. 41 N., R. 6 E.

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SCALE
0 50 100 150

TEMPORARY EROSION CONTROL LEGEND

- CURB INLET CHECK
- TEMPORARY BERM TYPE C
- SILT FENCE

EROSION CONTROL
SHEET 3 OF 3

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	30

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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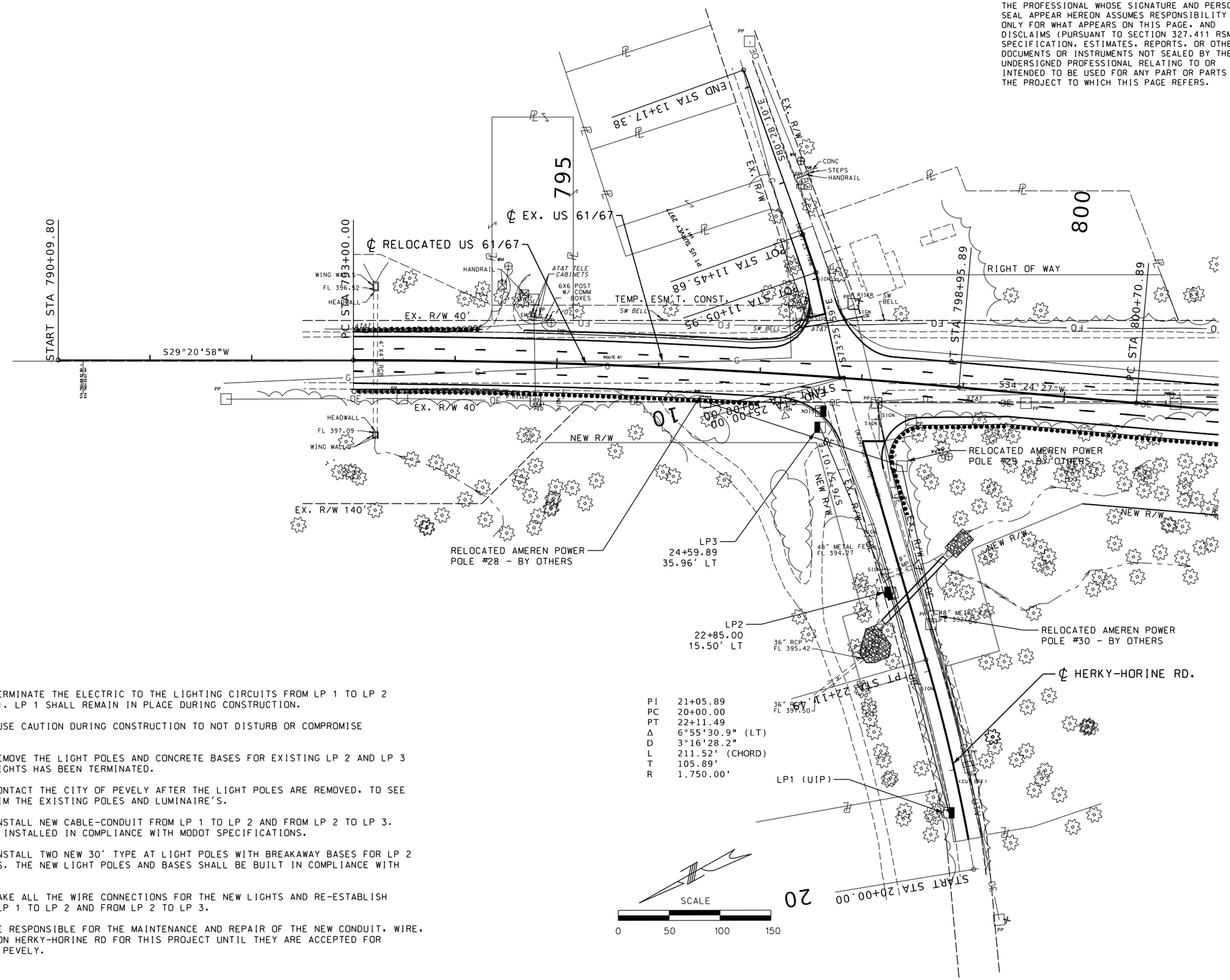
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SCOPE OF WORK:

1. MODOT'S CONTRACTOR SHALL TERMINATE THE ELECTRIC TO THE LIGHTING CIRCUITS FROM LP 1 TO LP 2 AND FROM LP2 TO LP3 AT LP 1. LP 1 SHALL REMAIN IN PLACE DURING CONSTRUCTION.
2. MODOT'S CONTRACTOR SHOULD USE CAUTION DURING CONSTRUCTION TO NOT DISTURB OR COMPROMISE THE INTEGRITY OF LP 1.
3. MODOT'S CONTRACTOR SHALL REMOVE THE LIGHT POLES AND CONCRETE BASES FOR EXISTING LP 2 AND LP 3 ONCE THE ELECTRIC TO THE LIGHTS HAS BEEN TERMINATED.
4. MODOT'S CONTRACTOR SHALL CONTACT THE CITY OF PEVELY AFTER THE LIGHT POLES ARE REMOVED, TO SEE WHETHER THEY WANT TO RECLAIM THE EXISTING POLES AND LUMINAIRE'S.
5. MODOT'S CONTRACTOR SHALL INSTALL NEW CABLE-CONDUIT FROM LP 1 TO LP 2 AND FROM LP 2 TO LP 3. THE CABLE-CONDUIT SHALL BE INSTALLED IN COMPLIANCE WITH MODOT SPECIFICATIONS.
6. MODOT'S CONTRACTOR SHALL INSTALL TWO NEW 30' TYPE AT LIGHT POLES WITH BREAKAWAY BASES FOR LP 2 LP 3 AT THEIR NEW LOCATIONS. THE NEW LIGHT POLES AND BASES SHALL BE BUILT IN COMPLIANCE WITH MODOT STANDARD 901.00AB.
7. MODOT'S CONTRACTOR SHALL MAKE ALL THE WIRE CONNECTIONS FOR THE NEW LIGHTS AND RE-ESTABLISH THE ELECTRIC SERVICE FROM LP 1 TO LP 2 AND FROM LP 2 TO LP 3.
8. MODOT'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE NEW CONDUIT, WIRE, AND LIGHT POLES INSTALLED ON HERKY-HORINE RD FOR THIS PROJECT UNTIL THEY ARE ACCEPTED FOR MAINTENANCE BY THE CITY OF PEVELY.

LIGHTING PLAN

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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3/28/2025	
ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	31
COUNTY	
JEFFERSON	
JOB NO.	
J6S3289	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A8737	

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WELCOME TO HERCULANEUM
USE IN PLACE
STA. 10+76 LT

WALL ST / COMMERCIAL BLVD
D3 SIGNS
REMOVE & REERECT

STOP
R1-1
30X30
REMOVE & REPLACE
STA. 10+67 LT(REMOVE)
STA. 10+80 LT
(REMOVE/REPLACE)

Federated Auto Parts Raceway
I-55 Pevely, MO
+/-12'x6'
REMOVE
STA. 10+68 LT

795 800 805 810 815 820

WALL STREET

4"DSY
PREFORMED THERMOPLASTIC PAVEMENT MARKING, 24 IN WHITE
6"SW
6"IW

ADOPT A HIGHWAY
REMOVE (2X)
STA. 805+75 LT

OM3
12X36
REMOVE
STA. 808+09 LT

OM3
12X36
REMOVE
STA. 811+00 LT

WEIGHT LIMIT 40 TONS
R12-1
24X30
REMOVE
STA. 813+98 LT

SPEED LIMIT 45
R2-1
30X36
REMOVE & REPLACE
STA. 814+90 LT

SCALE
0 100 200 300 400 500

SCENIC DRIVE

℄ US 61/67

OM3
12X36
REMOVE
STA. 797+61 RT

E & J AUTO SALVAGE
+/-8.5'x6'
REMOVE
STA. 798+22 RT

OM3-L
12X36
REMOVE & REPLACE
STA. 22+89 LT

ROAD MAY FLOOD
W8-18
36X36
STA. 23+00 LT

HERCULANEUM HIGH SCHOOL ROAD

W11-1
30X30
REMOVE & REPLACE

IN ROAD
W16-1P
18X12

SHARE THE ROAD
W16-1
18X24
STA. 24+00 LT

SPEED LIMIT 45
R2-1
30X36
REMOVE & REPLACE
STA. 795+07 RT

SPEED LIMIT 35
R2-1
24X30
REMOVE & REPLACE
STA. 22+00 LT

OM3
12X36
USE IN PLACE
STA. 20+62 LT

STOP
R1-1
30X30
REMOVE & REPLACE
STA. 24+25 RT

WEIGHT LIMIT 40 TONS
R12-1
24X30
REMOVE
STA. 804+29 LT

SPEED LIMIT 45
R2-1
30X36
REMOVE & REPLACE

CITY LIMIT HERCULANEUM POP. 3,468
±60X24
REMOVE & REERECT

FURNEY HEART CITY
±12X18

STA. 807+89 LT (REMOVE)
STA. 806+00 RT (REPLACE/REERECT)

OM3
12X36
REMOVE
STA. 808+03 LT

NOISE ORDINANCE ENFORCED
±30X30
REMOVE & REERECT

11 Years
Thank You Hercules Fire Protection Dist.
±24X30
REMOVE & REERECT

STA. 811+94 LT (REMOVE)
STA. 812+00 RT (REERECT)

PAVEMENT MARKING LEGEND

4" DSY = 4" DOUBLE YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

6" SW = 6" SOLID WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

6" IW = 6" INTERMITTENT WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

SIGNING & PAVEMENT MARKING
SHEET 1 OF 5

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
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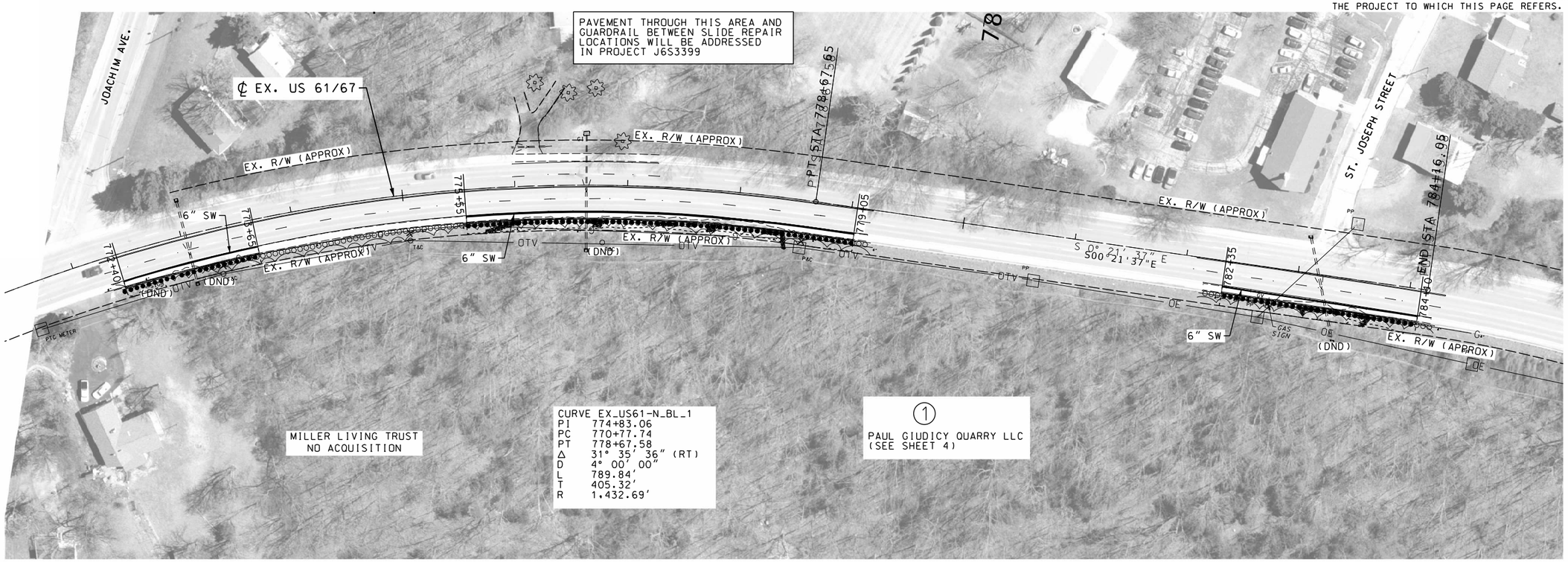
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T. 41 N., R. 6 E.

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PAVEMENT MARKING LEGEND

4" DSY = 4" DOUBLE YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

6" SW = 6" SOLID WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

6" IW = 6" INTERMITTENT WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

SCALE
0 50 100 150

ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

SIGNING & PAVEMENT MARKING
SHEET 2 OF 5

STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/28/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	33

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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MATTHEW G. DAWSON
NUMBER PE-2010014279
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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 34
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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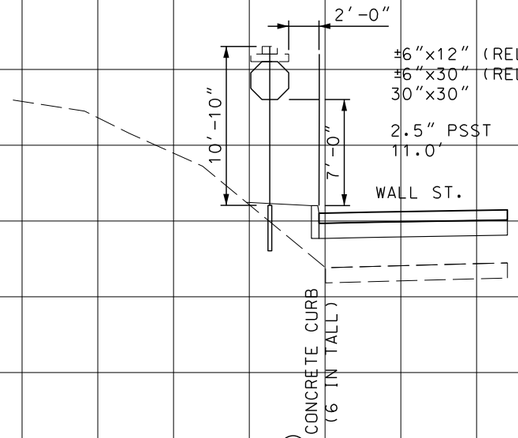
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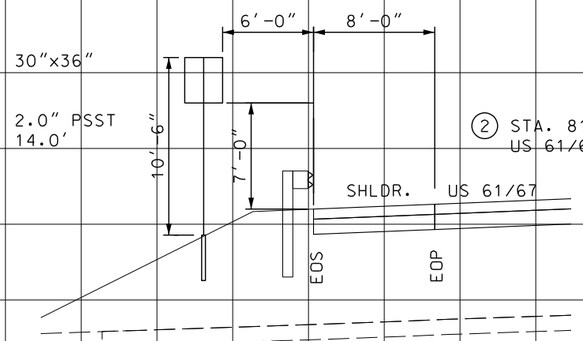
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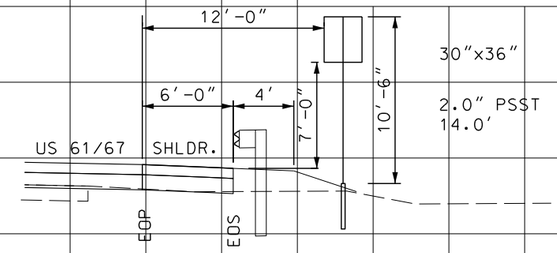
① STA. 10+80 RT
WALL ST.



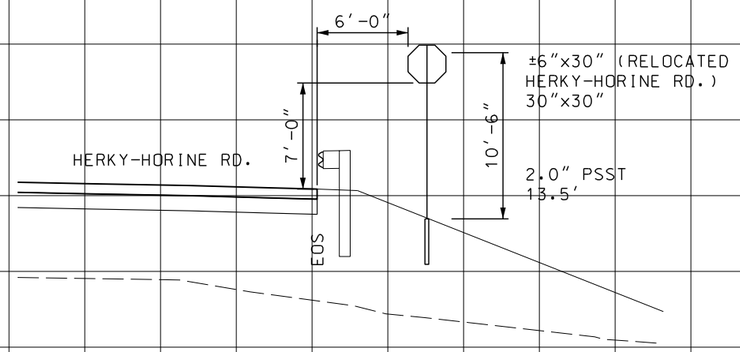
② STA. 814+90 LT
US 61/67



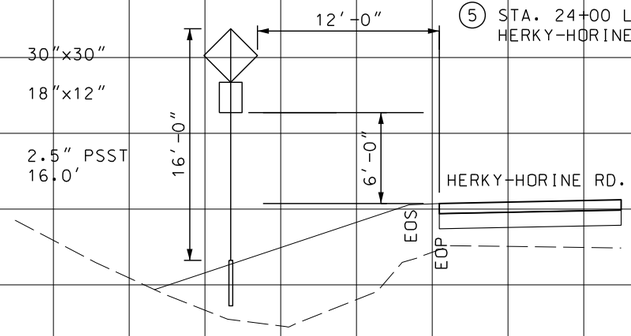
③ STA. 795+07 RT
US 61/67



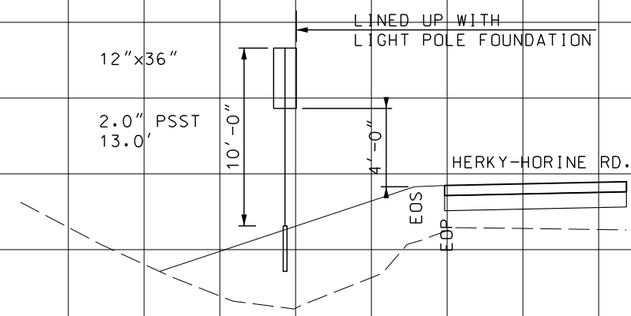
④ STA. 24+25 RT
HERKY-HORINE RD.



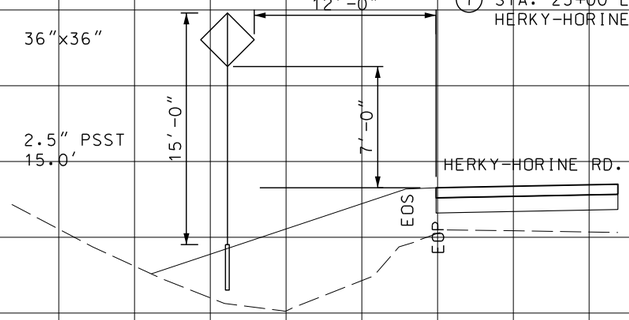
⑤ STA. 24+00 LT
HERKY-HORINE RD.



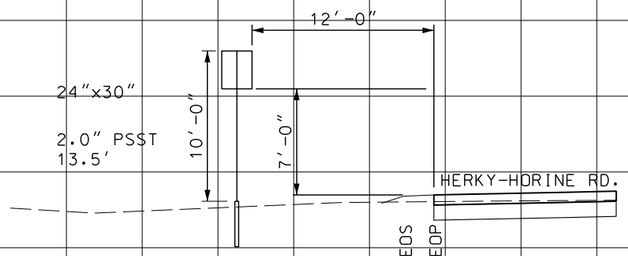
⑥ STA. 22+89 LT
HERKY-HORINE RD.



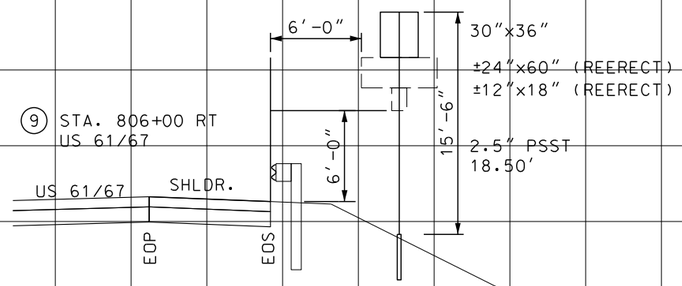
⑦ STA. 23+00 LT
HERKY-HORINE RD.



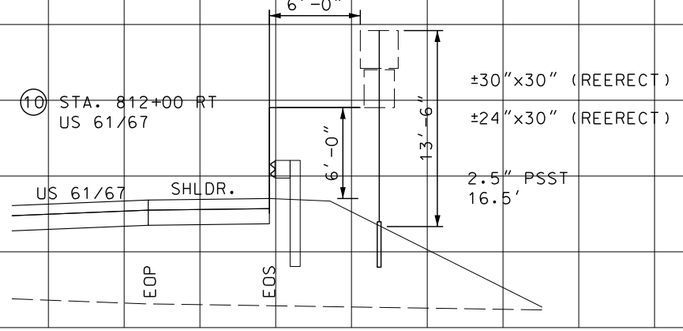
⑧ STA. 22+00 LT
HERKY-HORINE RD.



⑨ STA. 806+00 RT
US 61/67



⑩ STA. 812+00 RT
US 61/67



5'

SIGNING SECTIONS
SHEET 3 OF 5

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	CONCRETE FOOTINGS EMBEDDED ITEM NO. 9031010 CY	STRUCTURAL STEEL POSTS* POST DES NO.	POST NO. 1 LF	POST NO. 2 LF	POST NO. 3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE POSTS* PIPE SIZE IN	POST NO. 1 LF	POST NO. 2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	BACKING BARS** 2" X 3/8" BARS AT 2.55 LBS/FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	U-CHANNEL POST ITEM NO. 9031250A LF
1	30x30	10+80	-	WALL-LT.																		
	±6x12																					
	±6x30																					
2	30x36	814+90	-	61/67-LT.																		
3	30x36	795+07	-	61/67-RT.																		
4	30x30	24+25	-	HH-RT.																		
5	±30x30	24+00	-	HH-LT.																		
	±18x12																					
6	12x36	22+89	-	HH-LT.																		
7	30x30	23+00	-	HH-LT.																		
8	24x30	22+00	-	HH-LT.																		
9	30x36	806+00	-	61/67-RT.																		
	±24x60																					
	±12x18																					
10	±30x30	812+00	-	61/67-RT.																		
	±24x30																					
SUBTOTAL																						
TOTAL																		**				

PERFORMED SQUARE STEEL TUBE

SIGN NO.	2-INCH POST POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031270A LF	ANCHORS DRIVEN 12 GA. ITEM NO. 9031271A EACH	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9031274 EACH	2.5-INCH POST POST NO. 1 LF	POST NO. 2 LF	TOTAL ITEM NO. 9031280 LF	2.25" INSERT (6 FT) ITEM NO. 9031272A EACH	ANCHORS DRIVEN 7 GA. ITEM NO. 9031281A EACH	CONCRETE 7 GA. ITEM NO. 9031285 EACH	BREAK-AWAY ASSEMBLY ITEM NO. 9031241 EACH	REMARKS AND OTHER REQUIRED ITEMS
1							11.0		11.0	1	1		1	STOP SIGN
														"WALL ST" RELOCATED
														"COMMERCIAL BLVD" RELOCATED
2	14.0		14.0	1										45 MPH
3	14.0		14.0	1										45 MPH
4	13.5		13.5	1										STOP SIGN
5							16.0		16.0	1	1		1	BICYCLE
														IN ROAD
6	13.0		13.0	1									1	OBJECT MARKER
7							15.0		15.0	1	1		1	ROAD MAY FLOOD
8	13.5		13.5	1									1	35 MPH
9							18.5		18.5	1	1			45MPH
														CITY LIMIT SIGN RELOCATED
														PURPLE HEART SIGN RELOCATED
10							16.5		16.5	1	1			NOISE ORDINANCE SIGN RELOCATED
														TREE CITY USA SIGN RELOCATED
SUBTOTAL			68	5					77	5	5		5	
TOTAL			68	5					77	5	5		5	

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

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LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4-6"	0.13
4	10.79	0.90	5'- 3½"	18"	5-6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

EFFECTIVE: 07-01-2024

MATTHEW G. DAWSON NUMBER PE-2016014279 PROFESSIONAL ENGINEER
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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 35
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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SIGNS
SHEET 4 OF 5

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EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SH 30X30	SH 24x30	SH 30x36	SHF 36x36	SHF 30x30	SHF 18x12	SHF 12x36
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH						
			R1-1	R2-1	R2-1	W8-18	W11-1	W16-1P	OM3-L
1	10+80	WALL ST. - LT.	1						
2	814+95	US 61/67 - LT.			1				
3	795+07	US 61/67 - RT.			1				
4	24+25	HERKY RD - RT.	1						
5	24+00	HERKY RD - RT.					1	1	
6	20+62	HERKY RD - RT.							1
7	23+00	HERKY RD - LT.				1			
8	22+00	HERKY RD - LT.		1					
9	806+00	US 61/67 - RT.			1				

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
R1-1		2	30x30	12.5			
R2-1(45 MPH)		3	30x36	22.5			
W18-18		1	36x36	9			
R2-1(35 MPH)		1	24x30	5			
W11-1		1	30x30	6.25			
W16-1P		1	18x12	1.5			
OM3-L		1	12x36	3.0			
			SUBTOTAL	59.75			
			TOTAL	60			

* ORANGE, YELLOW & YELLOW/GREEN

SIGNS
SHEET 5 OF 5

D-30

LAYOUT	CM & MC	06/2020
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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2016014279
PROFESSIONAL ENGINEER

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DATE PREPARED 3/28/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 36
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

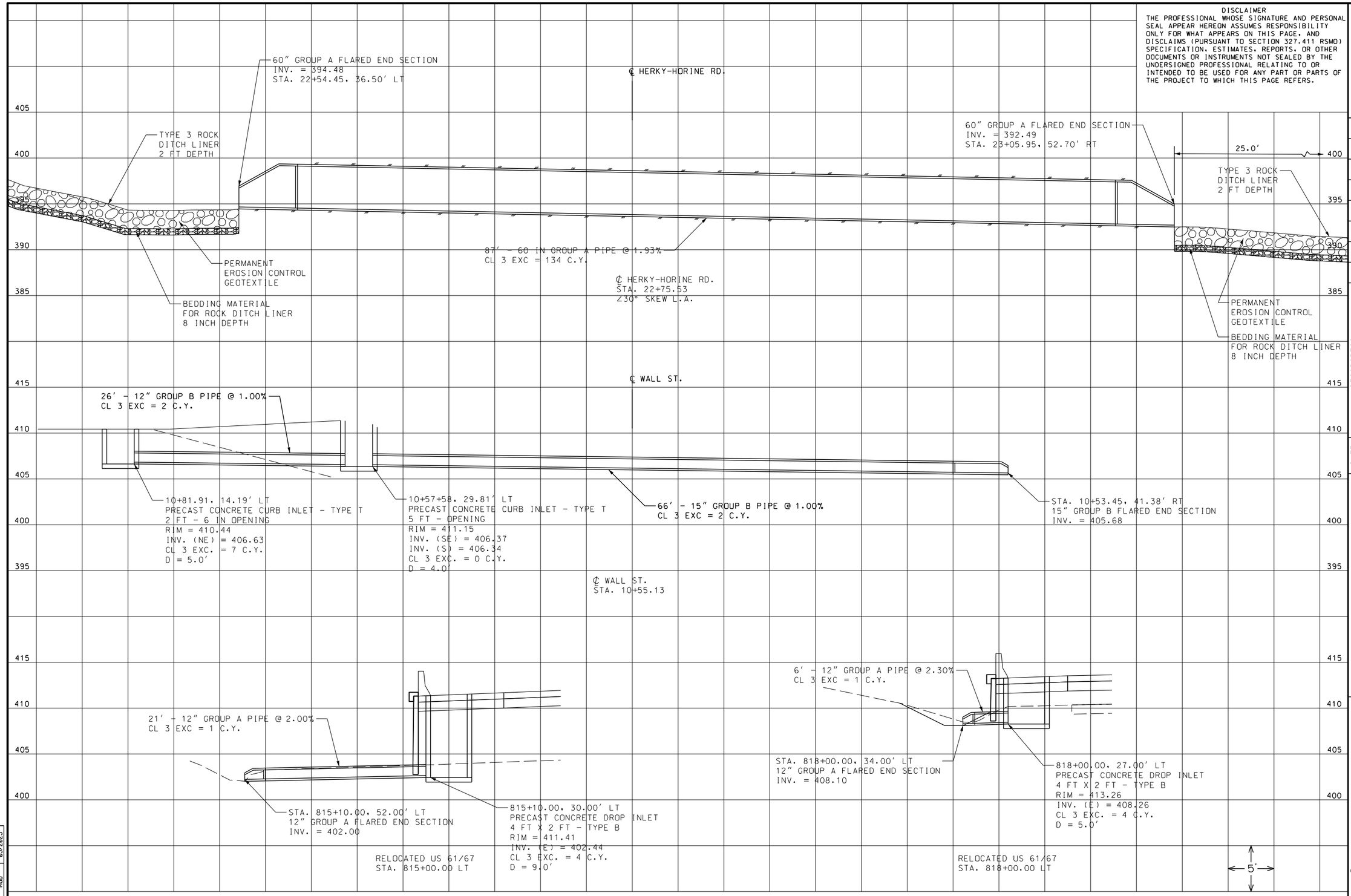
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MATTHEW G. DAWSON
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3/28/2025

ROUTE	STATE
61/67	MO

DISTRICT	SHEET NO.
SL	37

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

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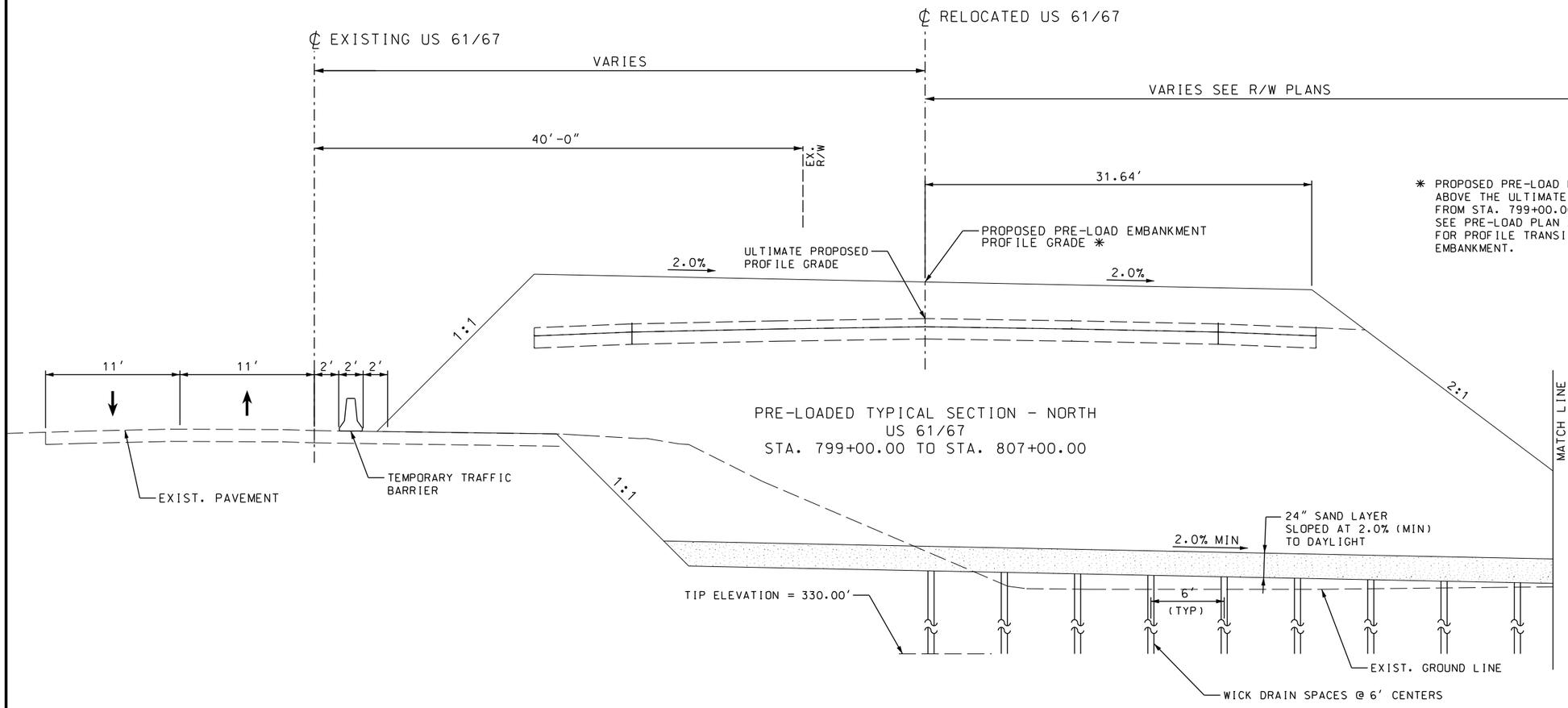
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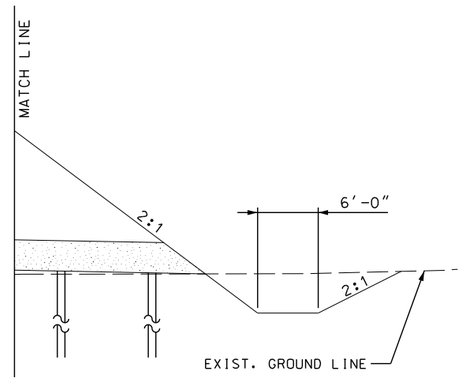
CULVERT SECTIONS
SHEET 1 OF 1

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US 61/67
STA. 799+00.00 TO STA. 807+00.00



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TYPICAL SECTION
SHEET 1 OF 2

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
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61/67	MO
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SL	1

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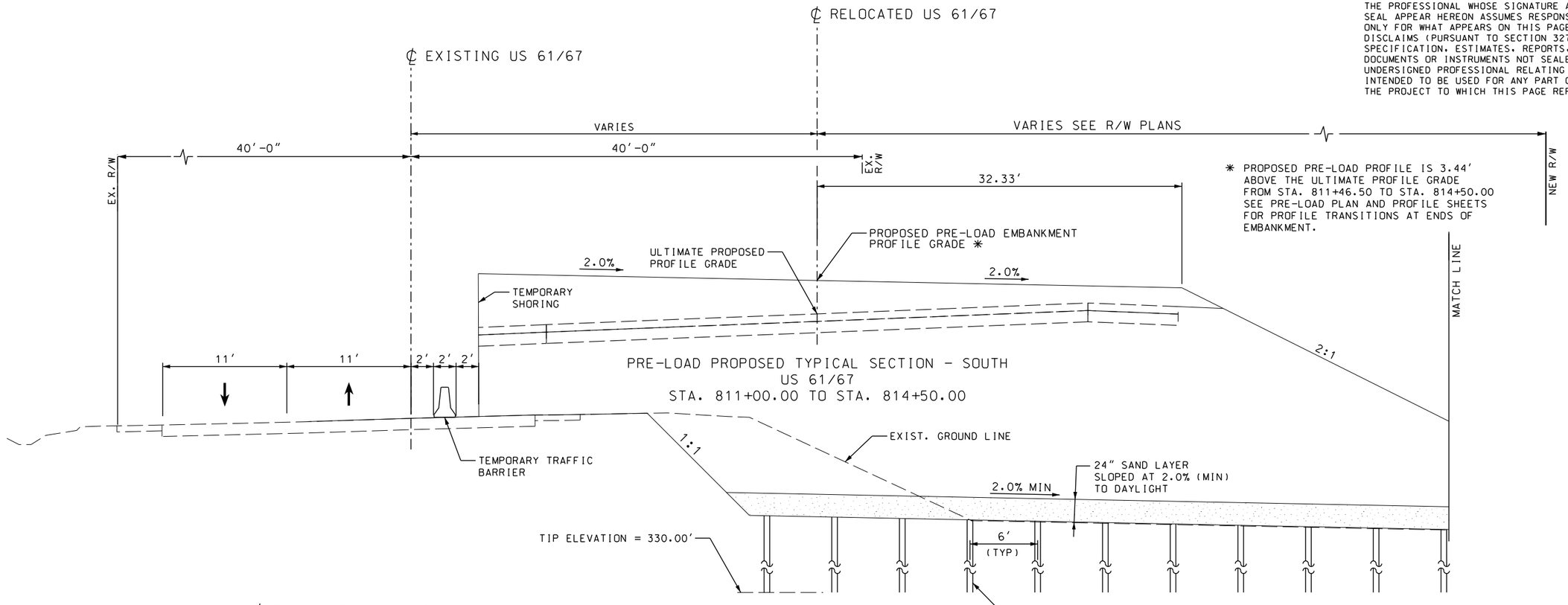
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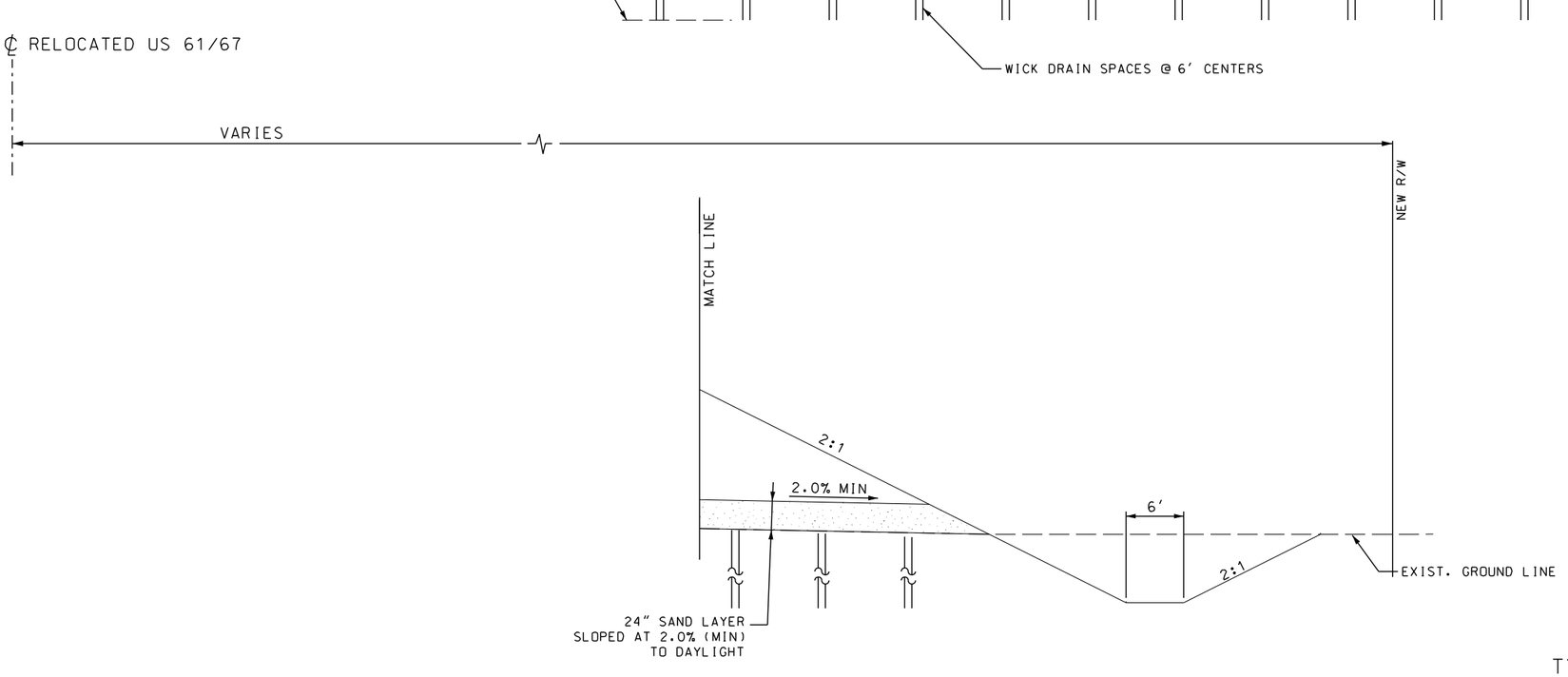
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PRE-LOAD
TYPICAL SECTION
SHEET 2 OF 2

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MGD	03/2025

STATE OF MISSOURI
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NUMBER PE-2010014279
PROFESSIONAL ENGINEER

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ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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105 WEST CAPITOL
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STATE OF MISSOURI
MATTHEW G. DAWSON
NUMBER PE-2010014279
PROFESSIONAL ENGINEER

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3/28/2025

ROUTE	STATE
61/67	MO
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SL	3

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JEFFERSON

JOB NO.
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PROJECT NO.

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1 OF 2

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0 50 100 150

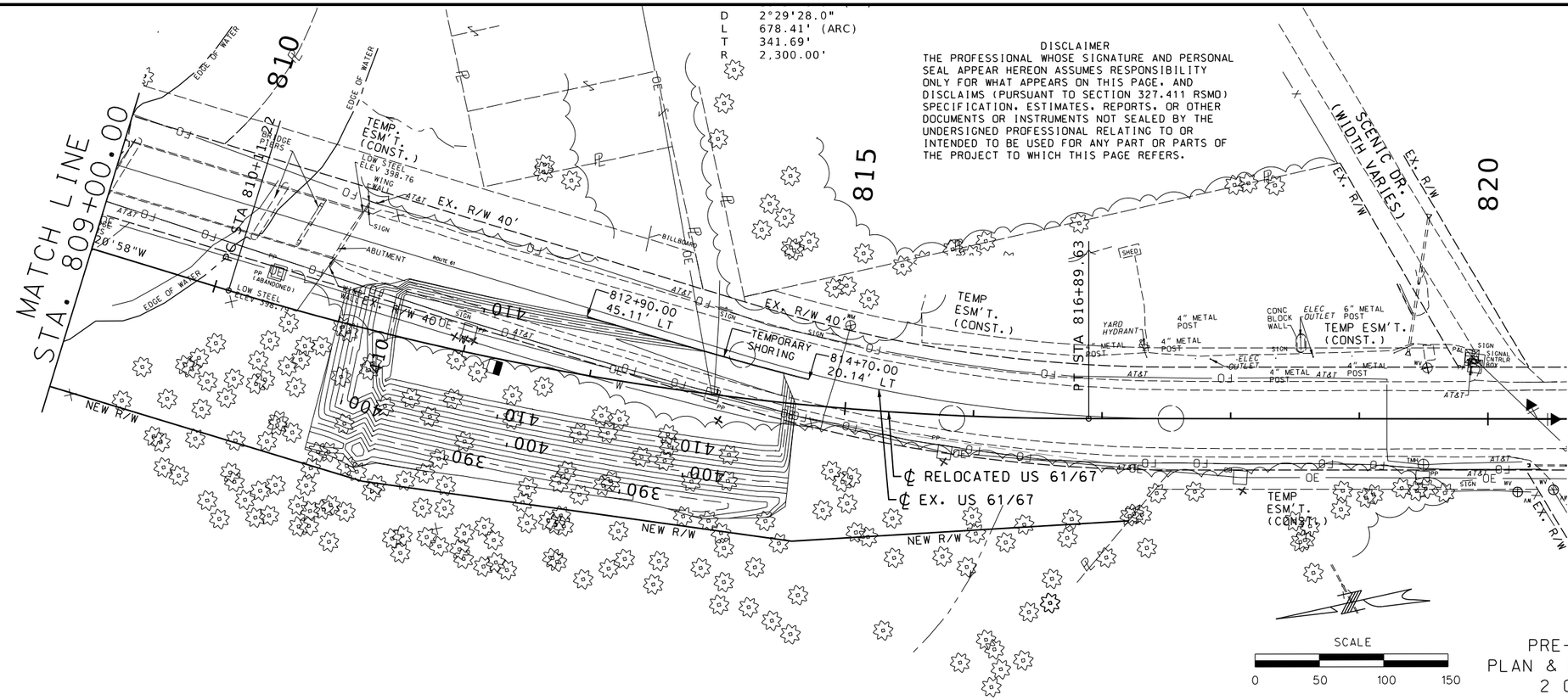
ALL BEARINGS BASED ON STATE PLANE BEARINGS EASTERN ZONE.

LAYOUT	CM & MC	06/2020
DRAWN	CM & RA	03/2025
REVIEWED	MCD	03/2025

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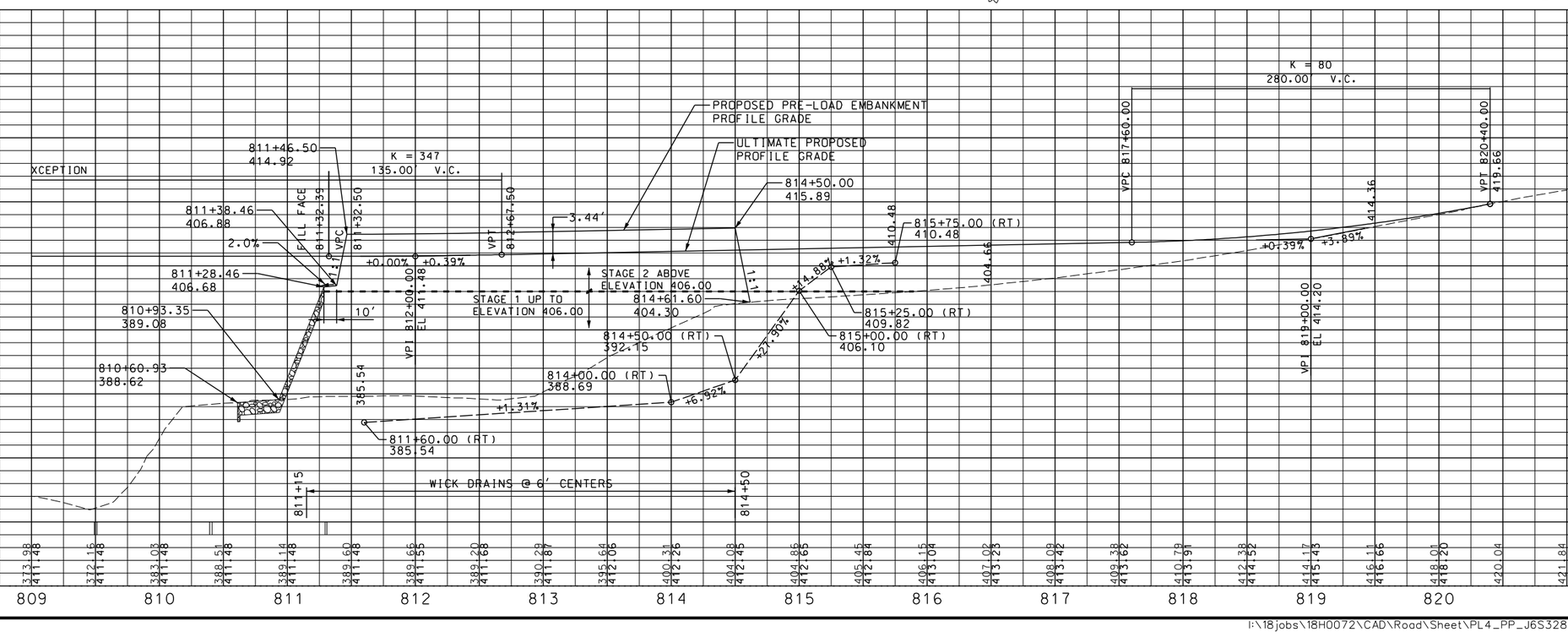
D 2°29'28.0"
L 678.41' (ARC)
T 341.69'
R 2,300.00'

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JOB NO.
J6S3289

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PROJECT NO.

BRIDGE NO.
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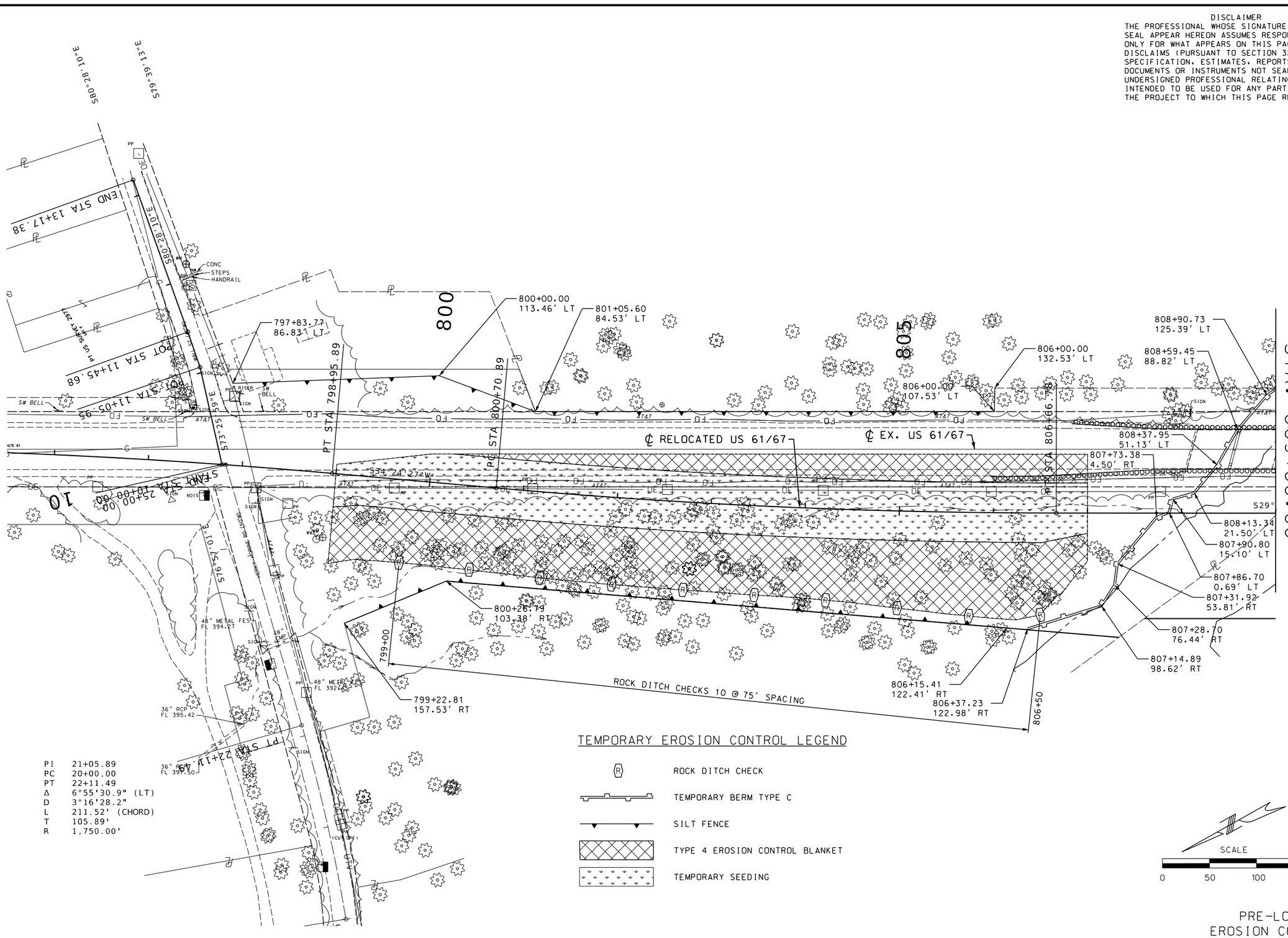
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PI 21+05.89
PC 20+00.00
PT 22+11.49
Δ 6°55'30.9" (LT)
D 3°16'28.2"
L 211.52' (CHORD)
T 105.89'
R 1,750.00'

TEMPORARY EROSION CONTROL LEGEND

- (R) ROCK DITCH CHECK
- TEMPORARY BERM TYPE C
- SILT FENCE
- TYPE 4 EROSION CONTROL BLANKET
- TEMPORARY SEEDING

SCALE
0 50 100 150

PRE-LOAD
EROSION CONTROL
1 OF 2

LAYOUT	CM & MC	06/2020
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SL	5

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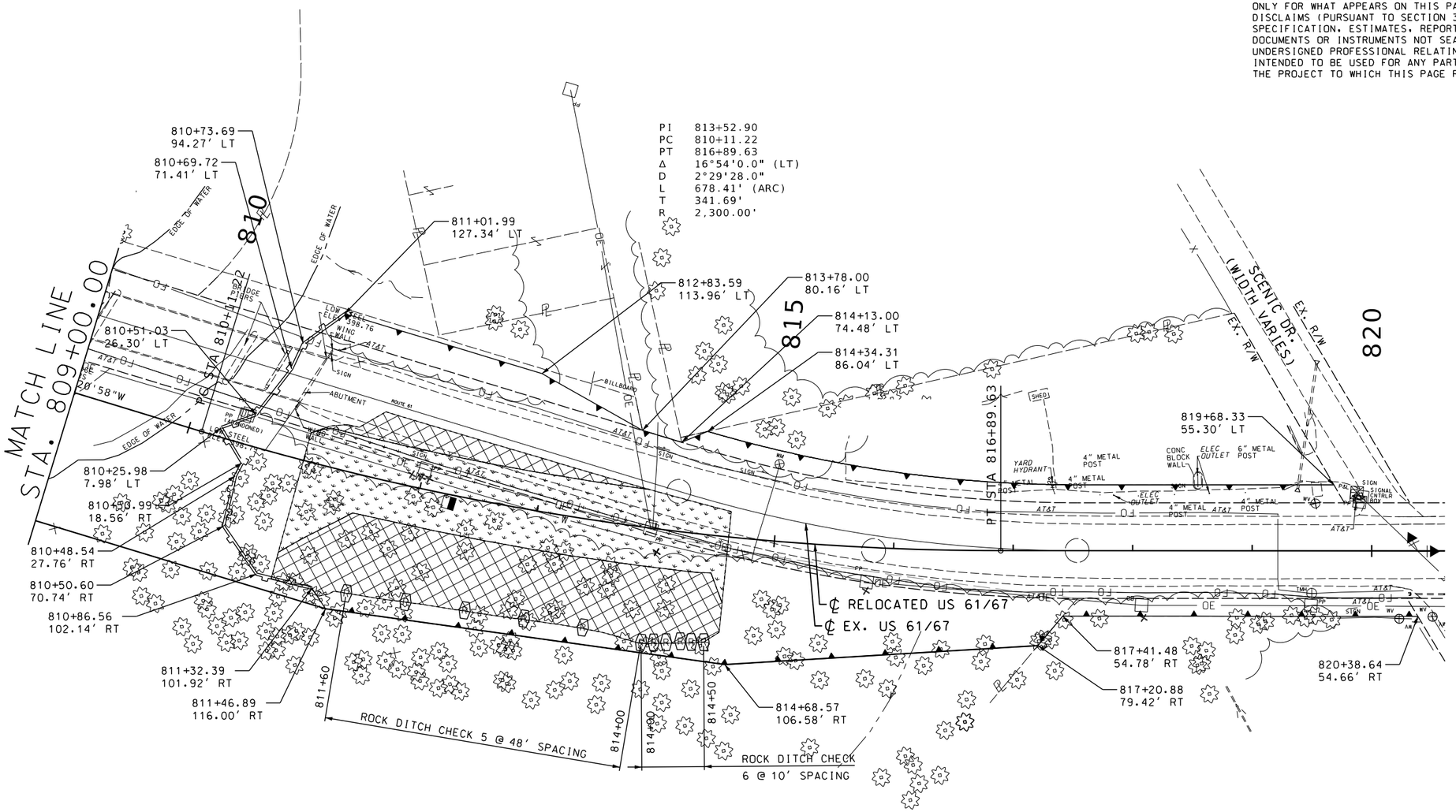
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TEMPORARY EROSION CONTROL LEGEND

- ROCK DITCH CHECK
- TEMPORARY BERM TYPE C
- SILT FENCE
- TYPE 4 EROSION CONTROL BLANKET
- TEMPORARY SEEDING

SCALE
0 50 100 150

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EROSION CONTROL
2 OF 2

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NUMBER PE-2010014279
PROFESSIONAL ENGINEER

DATE PREPARED
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ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
JEFFERSON

JOB NO.
J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A8737

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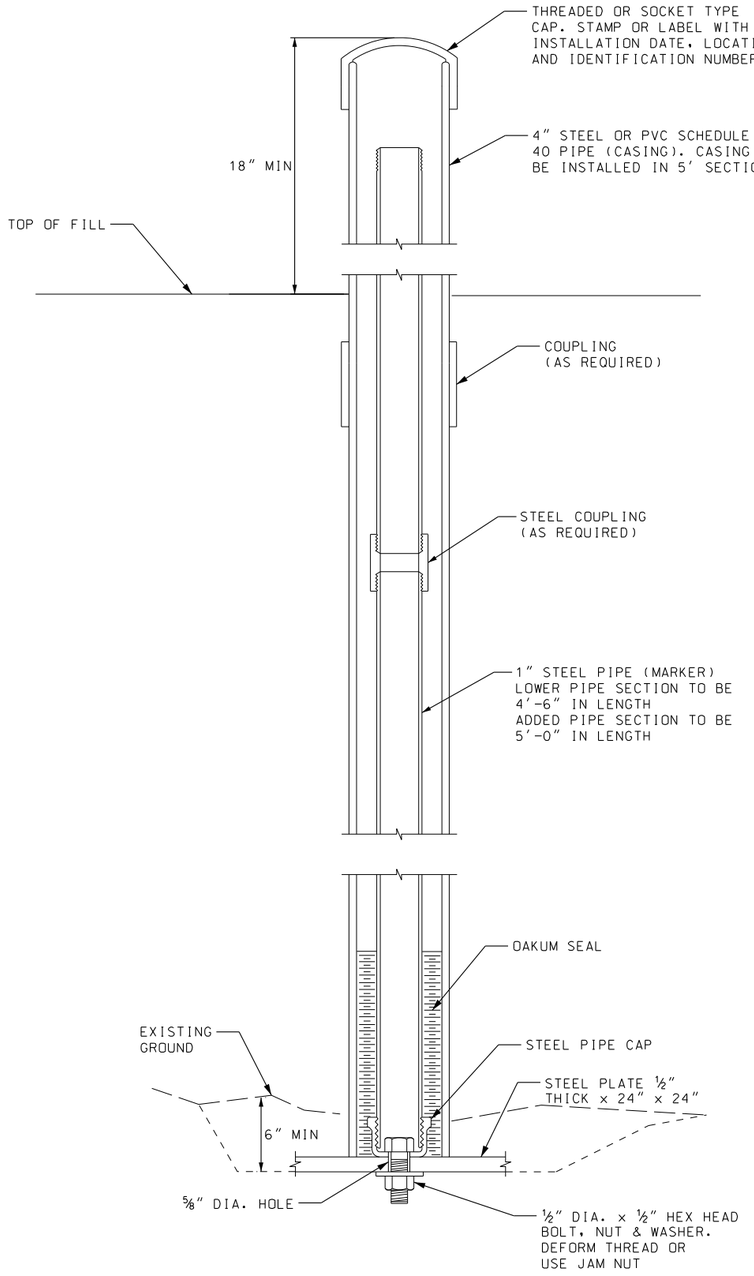
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SETTLEMENT PLATE DETAIL

N.T.S.

SETTLEMENT PLATE LOCATIONS	
PLATE NO.	STATION
1	799+50
2	802+50
3	804+75
4	806+50
5	811+50
6	813+75

SETTLEMENT PLATE NOTES:

1. BENCHMARKS SHALL BE ESTABLISHED IN THE ADJACENT AREA BEFORE SETTLEMENT PLATES ARE INSTALLED. BENCHMARKS FOR SETTLEMENT READINGS SHALL BE AT LEAST 100 FT FROM PLACEMENT OF FILL.
2. THE BASE PLATE SHALL BE INSTALLED AT LEAST 6 INCHES BELOW NATURAL GROUND, FIRMLY SEATED ON A LEVEL SURFACE COMPACTED TO 95% OF THE MAXIMUM DENSITY.
3. RISER PIPE EXTENSION AND COUPLERS SHALL BE ADDED AS NECESSARY AS CONSTRUCTION OF THE EMBANKMENT PROGRESSES.
4. MONITORING SHALL CONSIST OF INSPECTING THE RISER PIPE, ACCURATELY MEASURING THE ELEVATION OF TOP OF THE RISER PIPE, AND RECORDING THE ELEVATION READINGS TO THE NEAREST 0.01 FOOT.
5. THE CONTRACTOR SHALL RECORD ELEVATION READINGS WEEKLY DURING NORMAL CONSTRUCTION OF STAGE 1, WAITING PERIOD BETWEEN STAGE 1 AND STAGE 2, AND NORMAL CONSTRUCTION OF STAGE 2. RECORDING ELEVATION READINGS MONTHLY AFTER COMPLETEION OF STAGE 2 EMBANKMENT CONSTRUCTION.
6. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO KEEP THE ALIGNMENT OF THE RISER PIPE AND PVC CASING IN A PLUMB POSITION. THE CONTRACTOR SHALL OPERATE EQUIPMENT SO THAT THE RISER PIPE AND PVC CASING ARE NOT DAMAGED, DISPLACED, OR TILTED OUT OF PLUMB. ALL PIPES THAT ARE DAMAGED, DISPLACED, OR TILTED OUT OF PLUMB SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CITY. THE CONTRACTOR SHALL INSTALL PROTECTIVE BARRICADES AROUND EACH ASSEMBLY.

PRE-LOAD
SPECIAL SHEET
1 OF 1

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DISTRICT: SL | SHEET NO.: 7
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

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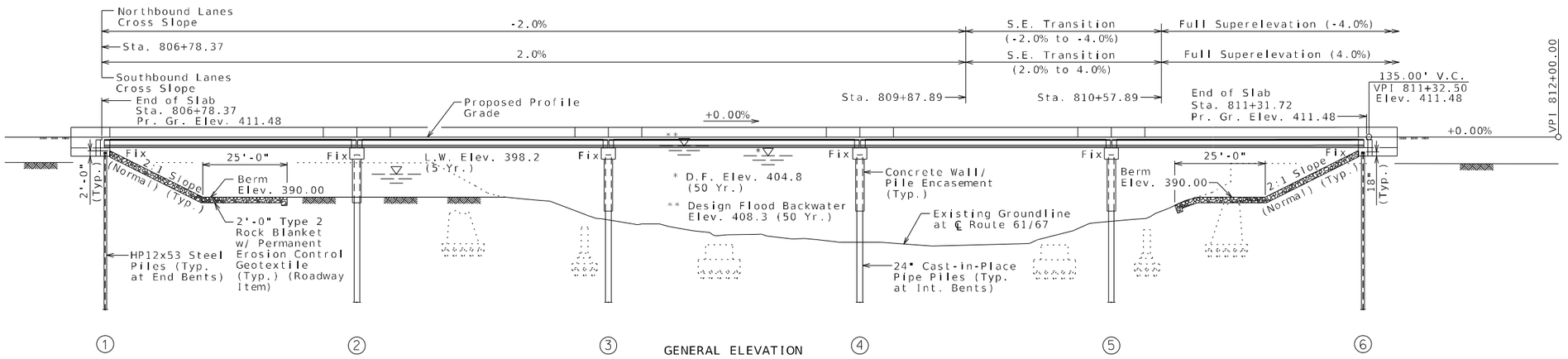
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REVIEWED	MCD	03/2025

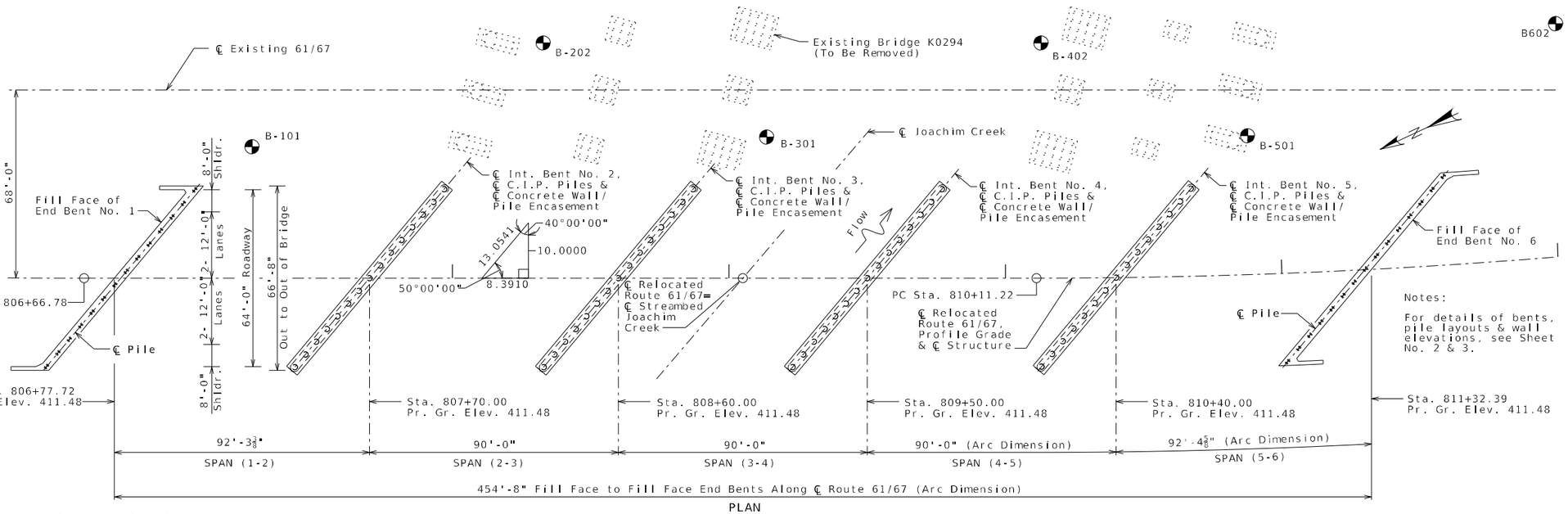
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SEC/SUR 2977S TWP 41N RGE 6E

(90.00'- 90.00'- 90.00'-90.00'-90.00') PRESTRESSED CONCRETE NU-GIRDER SPANS



GENERAL ELEVATION



PLAN

"◓" Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the bridge plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheet Nos. 42-53 or will be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

All Transverse Dimensions are Radial to the ℄ Relocated 61/67

Notes:

Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

For General Notes, Location Sketch, Foundation Data, Estimated Quantities for Slab on NU-Girder and Estimated Quantities, see Sheet No. 4.

All longitudinal dimensions are horizontal.

All bents are parallel.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 53

Bench Marks (NAVD 88 Datum)

Control Point #4
Magnail North of Bridge on West Side of Route 61/67
N 885399.517, E 852015.837
Elev 401.73

Control Point #5
Magnail South of Bridge on East Side of Route 61/67
N 885054.647, E 851880.881
Elev 401.26

Control Point #6
Rebar South of Bridge on West Side of Route 61/67
N 884775.747, E 851654.150
Elev 404.96

Horizontal Curve Information

CURVE PRUS61_6		CURVE PRUS61_9	
PI	803+69.03	PI	813+52.90
PC	800+70.89	PC	810+11.22
PT	806+66.78	PT	816+89.63
Δ	5° 03' 29.1"(LT)	Δ	16° 54' 00.0"(LT)
D	0° 50' 55.8"	D	2° 29' 28.0"
L	595.89'	L	678.41'
T	298.14'	T	341.69'
R	6,750.00'	R	2,300.00'

BRIDGE OVER JOACHIM CREEK

ROUTE 61/67 FROM ROUTE Z TO ROUTE A
ABOUT 2.0 MILES SOUTH OF ROUTE Z
BEGINNING STATION 806+77.72

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DISTRICT BR
SHEET NO. 1
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

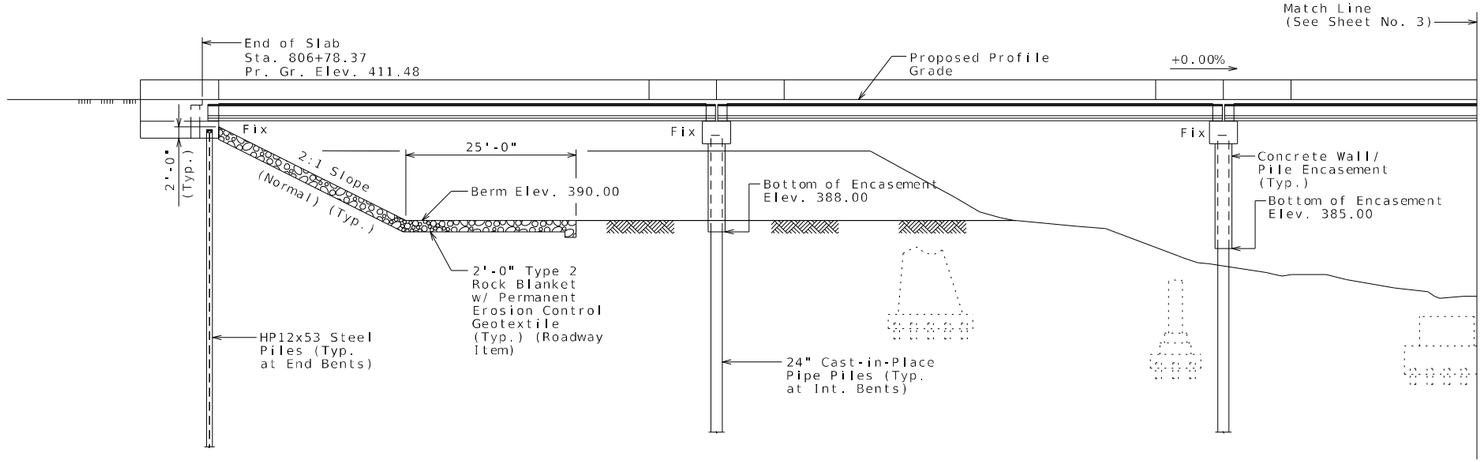
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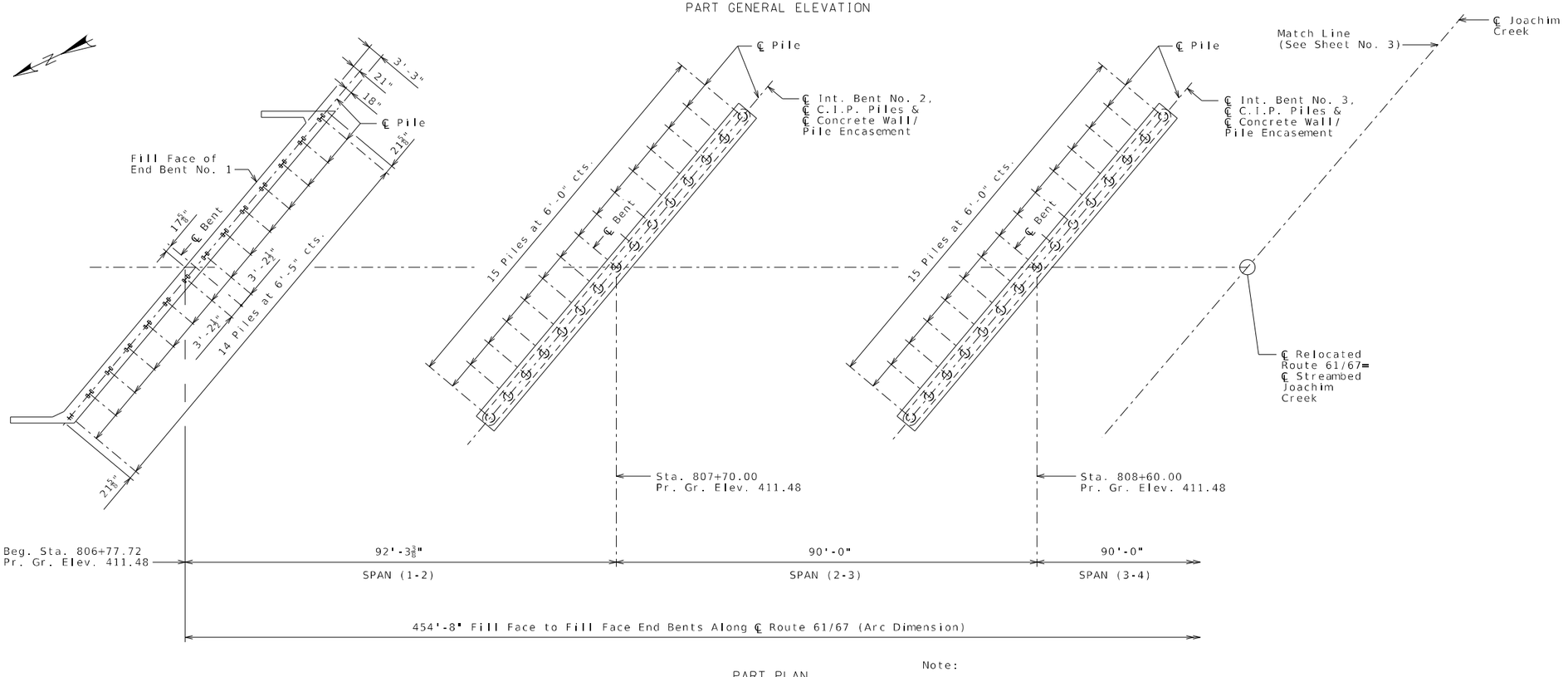
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PART GENERAL ELEVATION



PART PLAN

Note:
Work this sheet with Sheets No. 1 & 3.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 53

PART PLAN & ELEVATION

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HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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STATE MO
DISTRICT BR
SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

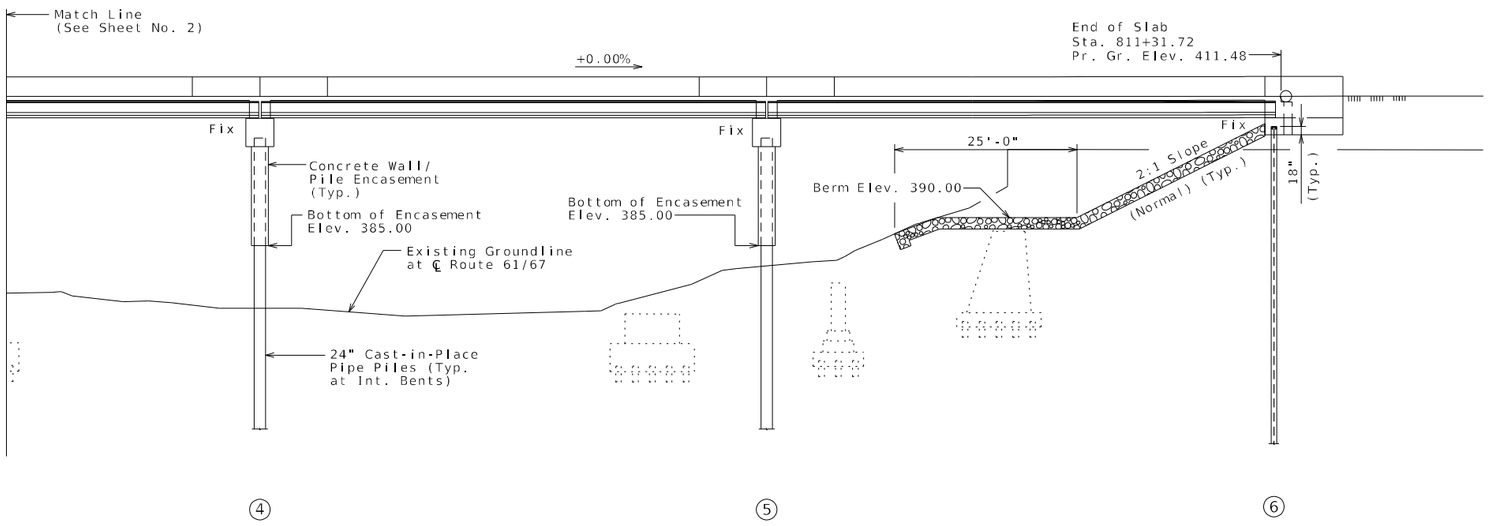
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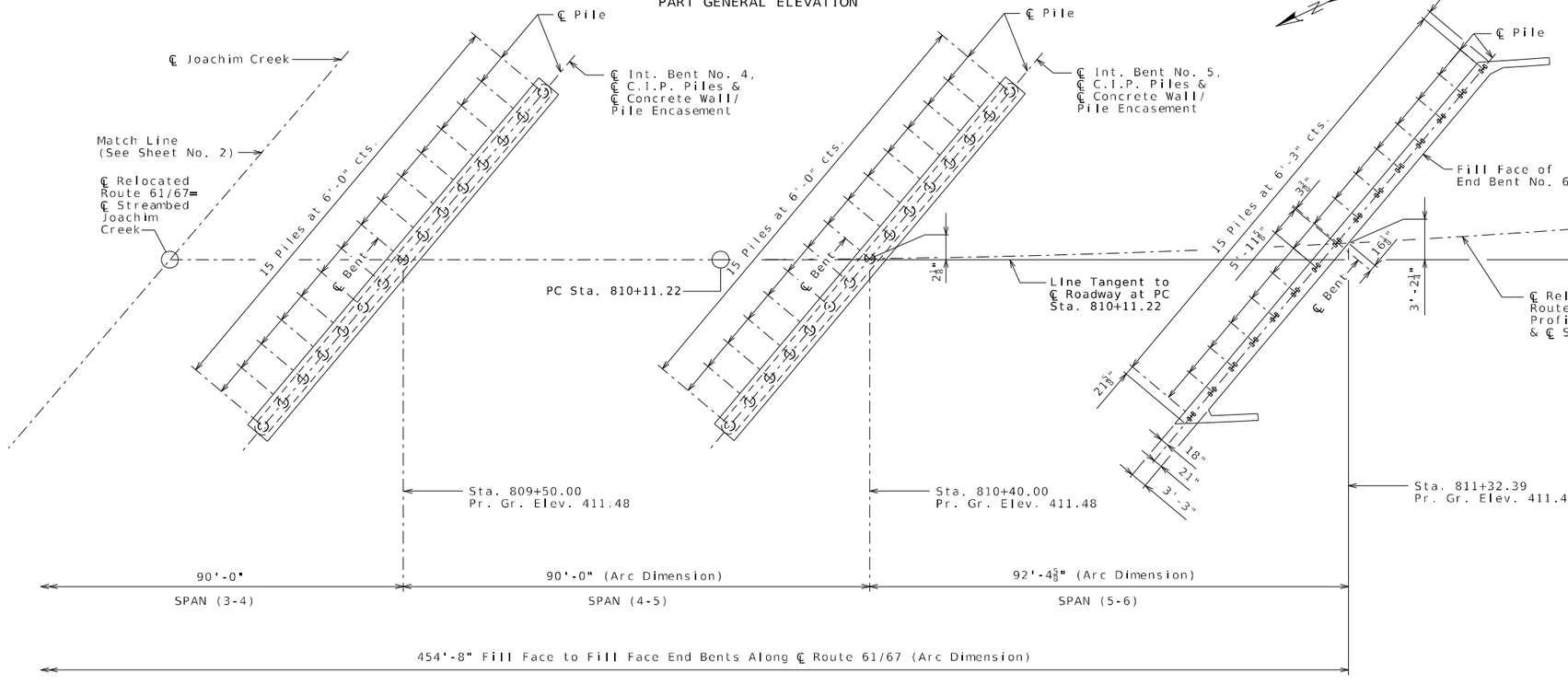
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PART GENERAL ELEVATION



PART PLAN

Note:
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Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 53

PART PLAN & ELEVATION

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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STATE MO
DISTRICT BR
SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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Estimated Quantities for Slab on Concrete NU-Girder

Item		Total
Class B-2 Concrete	cu. yard	1050
Reinforcing Steel (Epoxy Coated)	pound	346,650

The table of Estimated Quantities for Slab on Concrete NU-Girder represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forms. Precast prestressed panels will not be permitted.

ESTIMATED QUANTITIES

ITEM		SUBSTR.	SUPERSTR.	TOTAL
Class 1 Excavation	cu. yard	350	——	350
Class 2 Excavation	cu. yard	80	——	80
Removal of Bridges (K0294)	lump sum	——	——	1
Bridge Approach Slab (Major Road)	sq. yard	——	290	290
Galvanized Structural Steel Piles (12 in.)	linear foot	2755	——	2755
Galvanized Cast-in-Place Concrete Piles (24 in.)	linear foot	5535	——	5535
Pre-Bore for Piling	linear foot	452	——	452
Pile Point Reinforcement	each	89	——	89
Class B Concrete (Substructure)	cu. yard	919.0	——	919.0
Type D Barrier	linear foot	——	950	950
Slab on Concrete NU-Girder	sq. yard	——	3359	3359
NU 35, Prestressed Concrete NU-Girder	linear foot	——	3588	3588
Reinforcing Steel (Bridges)	pound	62,660	——	62,660
Slab Drains	each	——	45	45
Vertical Drain at End Bents	each	——	——	2
Plain Neoprene Bearing Pad	each	——	16	16
Laminated Neoprene Bearing Pad	each	——	64	64

Foundation Data

Type	Design Data		Bent Number 1	2	3	4	5	6
Load Bearing Pile	Pile Type and Size		HP 12X53	OECIP 24"	OECIP 24"	OECIP 24"	OECIP 24"	HP 12X53
	Number	ea	14	15	15	15	15	15
	Approximate Length Per Each	ft	95	92	93	92	92	95
	Pile Point Reinforcement	ea	All	All	All	All	All	All
	Min. Galvanized Penetration (Elev.)	ft	370.00	359.00	350.00	343.00	350.00	367.00
	Est. Max. Scour Depth 500 (Elev.)	ft	375.00	364.00	355.00	348.00	355.00	372.00
	Minimum Tip Penetration (Elev.)	ft	311.00	311.50	310.50	311.50	311.50	310.00
	Criteria for Min. Tip Penetration		Min. Embed.	Min. Embed.	Min. Embed.	Min. Embed.	Min. Embed.	Min. Embed.
	Pile Driving Verification Method		DF	DF	DF	DF	DF	DF
	Minimum Nominal Axial Compressive Resistance	kip	260	495	495	495	495	240
	Resistance Factor		0.4	0.4	0.4	0.4	0.4	0.4

OECIP = Open Ended Cast-In-Place concrete pile DF = FHWA-modified Gates Dynamic Formula

Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor.

All piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

Prebore for piles at Bents No. 1 and 6 to elevation 388.00.

All piles shall be galvanized down to the minimum galvanized penetration (elevation). Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

The contractor shall make every effort to achieve the minimum galvanized penetration (elevation) shown on the plans for all piles. Deviations in penetration less than 5 feet of the minimum will be considered acceptable provided the contractor makes the necessary corrections to ensure the minimum penetration is achieved on subsequent piles.

Cost of L4x4 ASTM A709 Grade 36 HP pile anchors and 3/4-inch diameter ASTM F3125 Grade A325 Type 1 bolts, complete in place, will be considered completely covered by the contract unit price for Galvanized Structural Steel Piles (12 in.).

HYDROLOGIC DATA

	Joachim Creek	Joachim Creek + Mississippi Backwater
Drainage Area	167 mi²	167 mi²
Design Flood Frequency	50	50
Design Flood Discharge	23,351 cfs	——
Design Flood (D.F.) Elevation	404.8	408.3
BASE FLOOD (100-YEAR)		
Base Flood Elevation	405.3	409.9
Base Flood Discharge	31,823 cfs	——
Estimated Backwater	0.3 ft.	0.0 ft.
Average Velocity thru Opening	3.72	——
FREEBOARD (50-YEAR)		
Freeboard (To Low Chord)	2.9 ft.	-0.6 ft.
ROADWAY OVERTOPPING		
Overtopping Flood Discharge	47,639 cfs	——
Overtopping Flood Frequency	>500	500
Flood Elevation	411.4	411.4

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 53

General Notes:

Design Specifications:
2020 AASHTO LRFD Bridge Design Specifications (9th Ed)
Seismic Design Category C (Seismic Details)
Design earthquake response spectral acceleration coefficient at 1.0 second period, SD1 = 0.369g.
Acceleration Coefficient (effective peak ground acceleration coefficient), As = 0.338g

Design Loading:
HL-93
35#/Sq. Ft. Future Wearing Surface
Earth 120 #/Cu. Ft., Equivalent Fluid Pressure 45#/Cu. Ft.

Superstructure: Simply supported, non-composite for dead load. Continuous composite for live load.

Design Unit Stresses:

Class B Concrete (Substructure, except for C.I.P. Concrete Pile)	f'c = 3,000 psi
Class B-1 Concrete (Barrier & C.I.P. Concrete Pile)	f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Prestressed Girders & Barrier)	f'c = 4,000 psi
Reinforcing Steel (ASTM A706 Grade 60)	fy = 60,000 psi
Structural Steel HP Pile (ASTM A709 Grade 50)	fy = 50,000 psi
Welded or Seamless steel shell (pipe) for CIP pile (ASTM A252 Modified Grade 3)	fy = 50,000 psi

Standard Plans:
606.22, 609.00, 617.10 and 706.35

For precast prestressed girder stresses, see Sheet Nos. 23-26.

Neoprene Pads:
Plain & Laminated Neoprene Bearing Pads shall be 60 durometer and shall be in accordance with Sec 716.

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Traffic Handling:
Traffic to be maintained on existing structure during construction. See roadway plans for traffic control.

Structural Removal:
The removal of the bridge shall be per the standard specifications.

Notes:

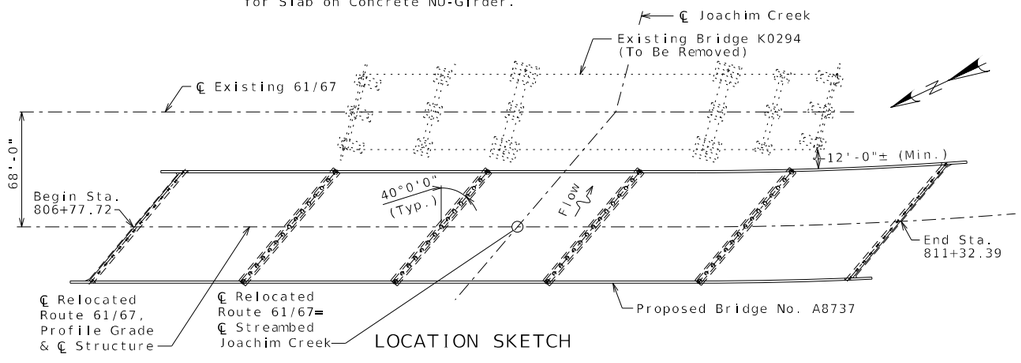
All concrete above the construction joint in the End Bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in the End Bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in the intermediate bent concrete diaphragms except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Concrete NU-Girder.

All reinforcement in cast-in-place pile at intermediate bents is included in the substructure quantities.

All concrete above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete NU-Girder.



LOCATION SKETCH

GENERAL NOTES AND ESTIMATED QUANTITIES

STATE OF MISSOURI
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PROFESSIONAL ENGINEER

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STATE MO
DISTRICT BR
SHEET NO. 4
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JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

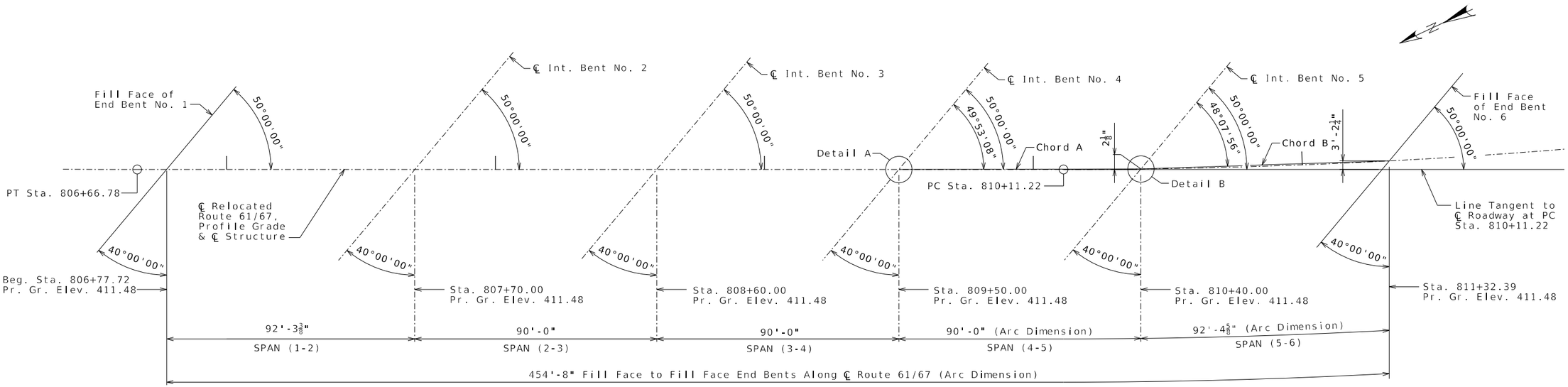
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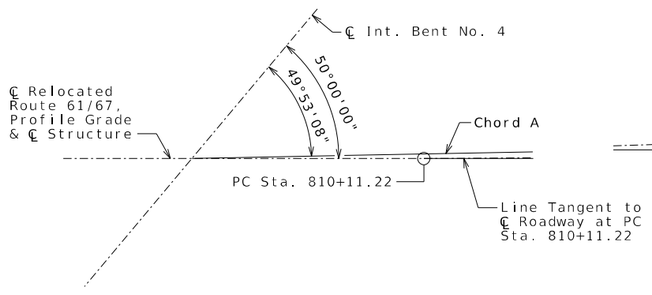
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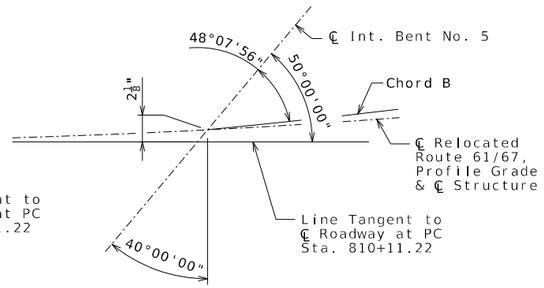


SUBSTRUCTURE LAYOUT

Notes:
All Bents are parallel.
All Dimensions are horizontal.



DETAIL A



DETAIL B

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

SUBSTRUCTURE LAYOUT

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DISTRICT BR
SHEET NO. 5
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

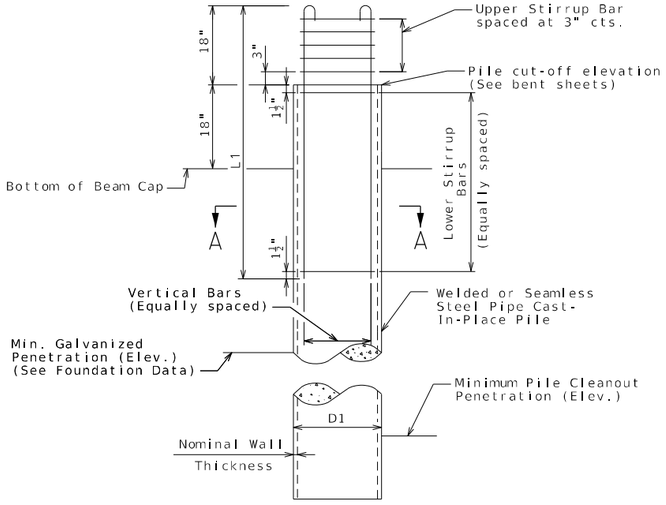
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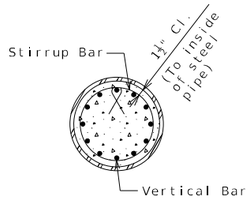
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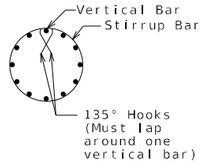
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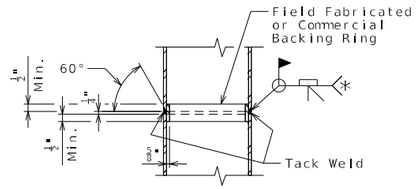
GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE WITHOUT PILE POINT REINFORCEMENT



SECTION A-A



DETAIL OF SEISMIC STIRRUP BAR



STEEL PIPE PILE SPLICE

* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE DATA				
Bent Number	2	3	4	5
D1, OECIP Pile (O.D.)	24"	24"	24"	24"
Min. Nominal Wall Thickness	0.75"	0.75"	0.75"	0.75"
Pile Point Reinforcement	**	**	**	**
Min. Pile Cleanout Penetration (Elev.)	360.00	345.00	340.00	345.00
Vertical Bars	12-#6-V201	12-#6-V301	12-#6-V401	12-#6-V501
L1, Length of Vertical Bars	7'-3"	7'-3"	7'-3"	7'-3"
Upper Stirrup Bars	5-#4-P201	5-#4-P301	5-#4-P401	5-#4-P501
Lower Stirrup Bars	7-#4-P201	7-#4-P301	7-#4-P401	7-#4-P501

** Open ended cutting shoe

Notes:

Welded or seamless steel shell (pipe) shall be ASTM A252 Modified Grade 3 (fy = 50,000 psi) with physical and chemical requirements that meet ASTM A572 Grade 50. Pipe certification and source material certification shall be required.

Open ended pile shall be augered out to the minimum pile cleanout penetration elevation and filled with Class B-1 concrete.

Concrete for cast-in-place pile shall be Class B-1.

Steel casting for open ended cutting shoe pile point reinforcement shall be ASTM A148 Grade 90-60.

The minimum wall thickness of any spot or local area of any type shall not be more than 12.5% under the specified nominal wall thickness.

The contractor shall determine the pile wall thickness required to avoid damage from all driving activities, but wall thickness shall not be less than the minimum specified. No additional payment will be made for furnishing a thicker pile wall then specified on the plans.

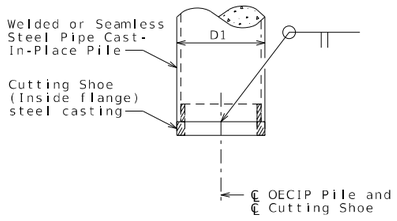
Splices of pipe for cast-in-place pipe pile shall be made watertight and to the full strength of the pipe above and below the splice to permit hard driving without damage. Pipe damaged during driving shall be replaced without cost to the state. Pipe sections used for splicing shall be at least 5 feet in length.

The hooks of vertical bars embedded in the beam cap shall not be turned outward, away from the column core.

Reinforcing steel for cast-in-place pile is included in the Bill of Reinforcing Steel.

All reinforcement for cast-in-place pile is included in the estimated quantities for bents.

For Foundation Data table, See Sheet No. 4.



MANUFACTURED OPEN ENDED CUTTING SHOE (INSIDE FLANGE)

GALVANIZED OPEN ENDED CAST-IN-PLACE (OECIP) CONCRETE PILE

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

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HOWARD NELSON GOTSCHALL II
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ROUTE 61/67
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DISTRICT BR
SHEET NO. 6
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

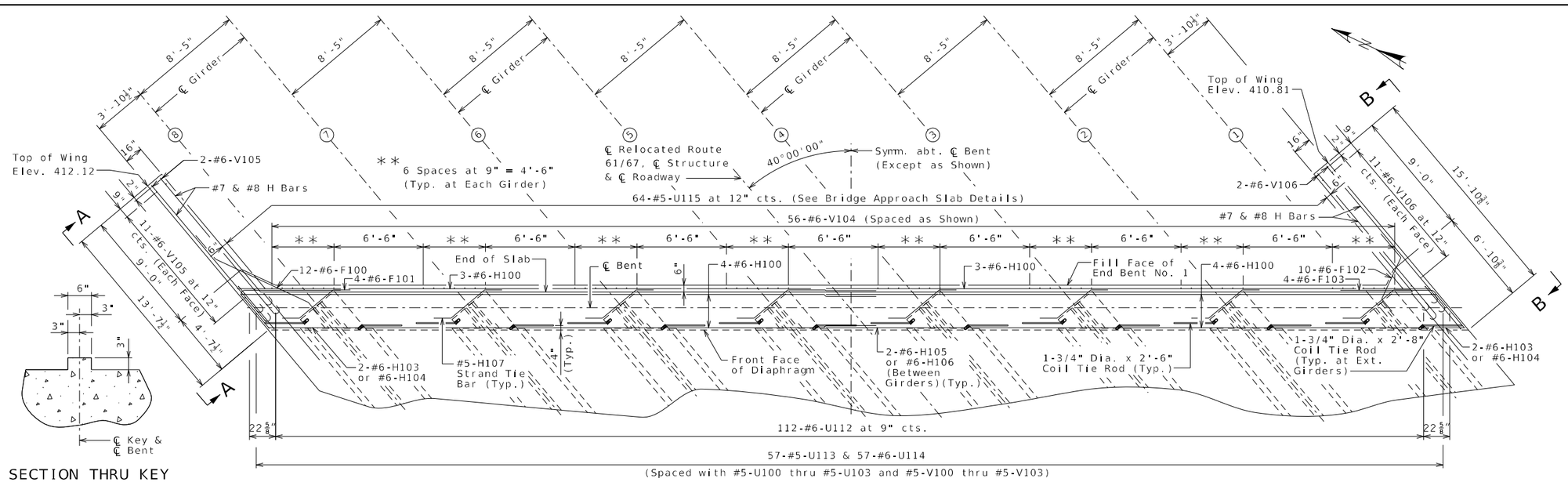
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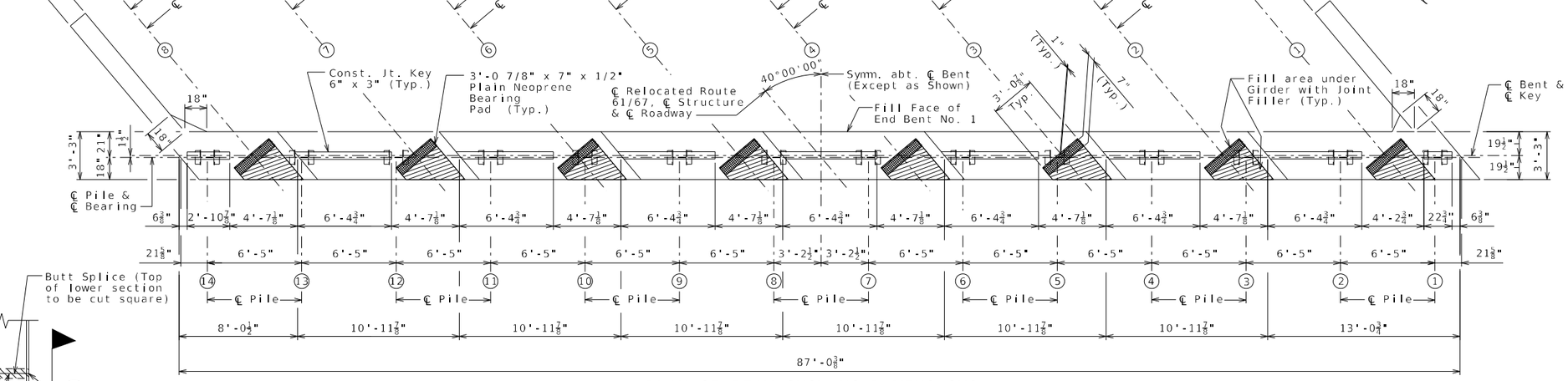
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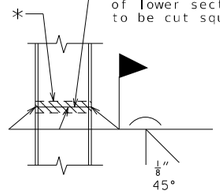


SECTION THRU KEY

PLAN



PLAN OF BEAM SHOWING DIMENSIONS



STEEL PILE SPLICE

(If required)

*Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

Notes:

For details of End Bent No. 1 not shown, see Sheets No. 8 & 9.

Strands at end of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2-inch minimum clearance to fill face of end bent.

Bend #6-F100 bars shall be bent in the field to clear girders.

For locations and details of Coil Tie Rods and #5-H107 (Stand Tie Bar), see Sheets No. 23 or 24.

For details of Vertical Drain at End Bents, see Sheet No. 10.

All concrete in the end bent above the const. jt. and below top of slab shall be Class B-2.

For Elevation A-A & B-B, see Sheet No. 9.

Notes:

For Substructure Quantity Table, see Sheet No. 8.

All vertical reinforcing in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

All U bars & V bars In the End Bent are to be parallel to the ℄ Relocated Route 61/67.

For reinforcement of the Type D Barrier, see Sheets No. 34 & 35.

For details of Bridge Approach Slab, see Sheet No. 36.

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF END BENT NO. 1

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
BR	7

COUNTY: JEFFERSON

JOB NO.: J6S3289

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A8737

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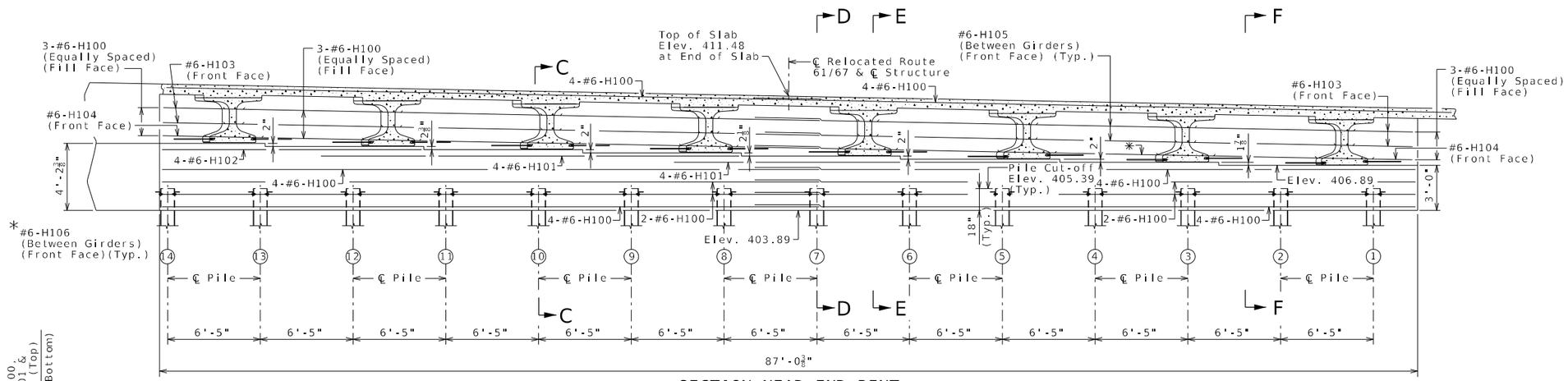
DESCRIPTION	DATE

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PLAN OF BEAM SHOWING REINFORCEMENT

SUBSTRUCTURE QUANTITY TABLE FOR END BENT NO. 1		
ITEM		QUANTITY
Class 1 Excavation	cu. yard	170
Galvanized Structural Steel Piles (12 in.)	linear foot	1330
Pre-bore for Piling	linear foot	230
Pile Point Reinforcement	each	14
Class B Concrete (Substructure)	cu. yard	41.1
Plain Neoprene Bearing Pad	each	8

Note: These quantities are included in the Estimated Quantities table on Sheet No. 2.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Notes:

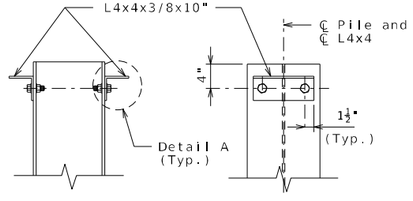
For details of End Bent No. 1 not shown, see Sheets No. 7 & 9.

For details of Vertical Drain at End Bents, see Sheet No. 10.

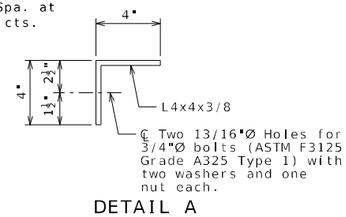
For Sections C-C, D-D, E-E, F-F & section thru wing, see Sheet No. 9.

All vertical reinforcing in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

All U bars & V bars in the End Bent are to be parallel to ℄ Relocated Route 61/67.



DETAILS OF HP PILE ANCHORS



DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 53

DETAILS OF END BENT NO. 1

STATE OF MISSOURI
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NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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COUNTY JEFFERSON
JOB NO. J6S3289
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PROJECT NO.
BRIDGE NO. A8737

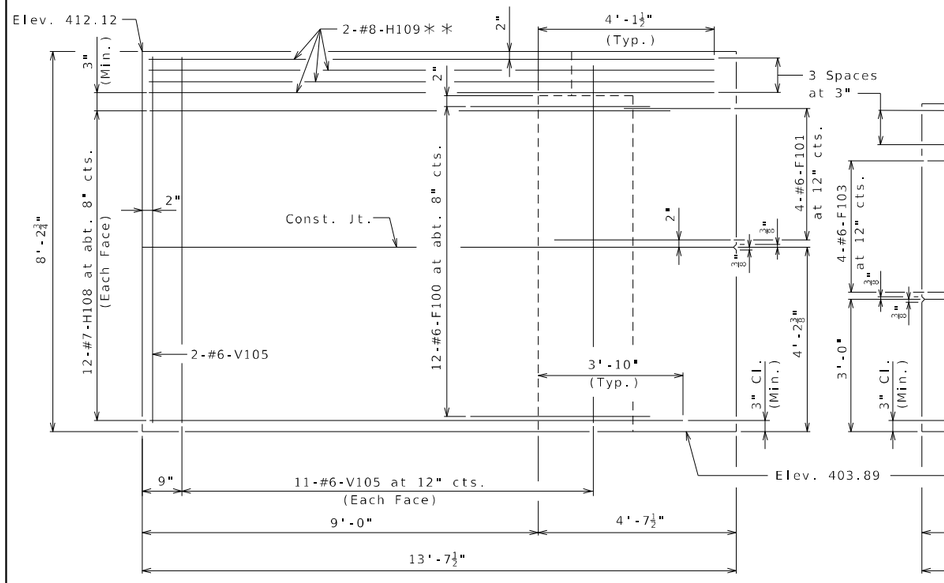
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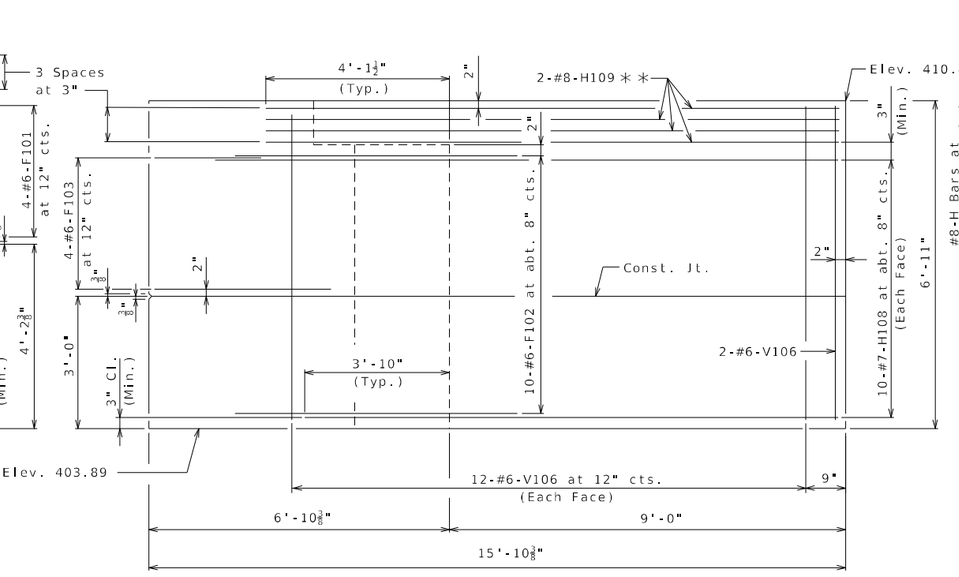
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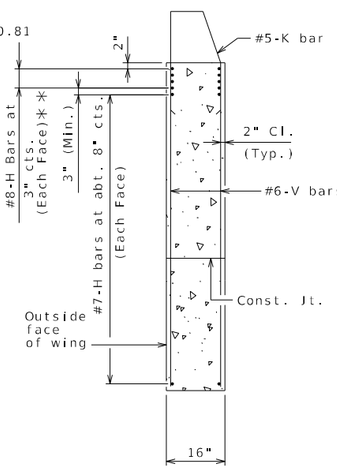


ELEVATION A-A

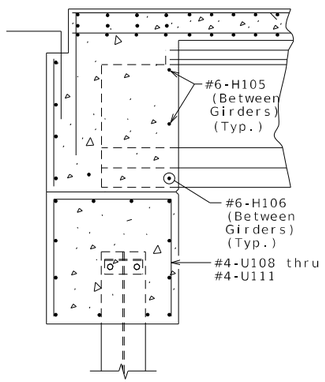
* * Note: Place H109 bars parallel to grade.



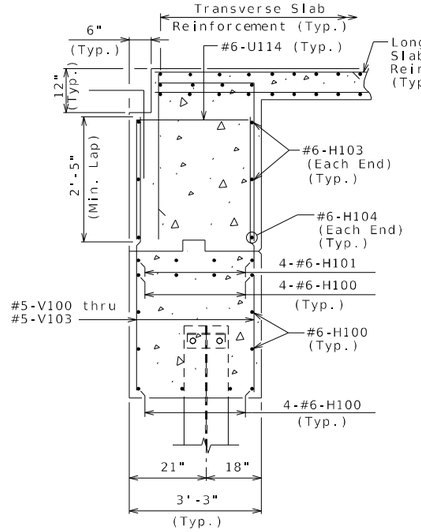
ELEVATION B-B



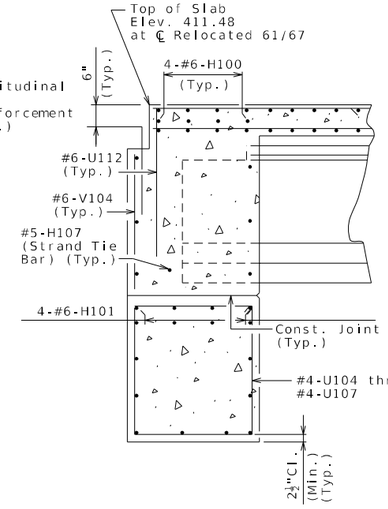
TYPICAL SECTION THRU WING



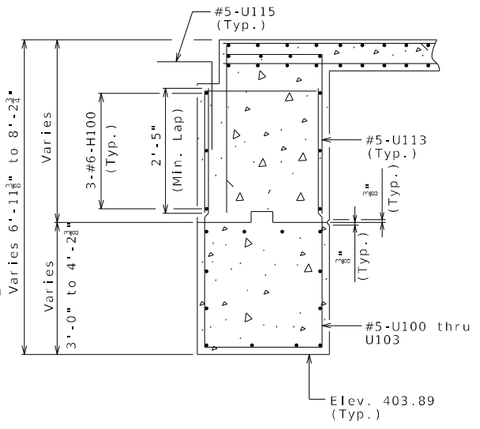
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

Notes:

For details of End Bent No. 1 not shown, see Sheets No. 7 & 8.

All concrete in the end bent above the const. jt. and below top of slab shall be Class B-2.

Bend #6-F100 bars in field to clear beams.

For reinforcement of the Type D Barrier not shown, see Sheets No. 34 & 35.

For details of Vertical Drain at End Bents, see Sheet No. 10.

For location of Elevations A-A & B-B, see Sheet No. 7.

For location of Sections C-C thru F-F, see Sheet No. 8.

For details of Bridge Approach Slab, see Sheet No. 36.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

DETAILS OF END BENT NO. 1

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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ROUTE 61/67
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SHEET NO. 9
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

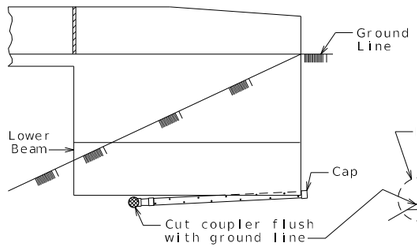
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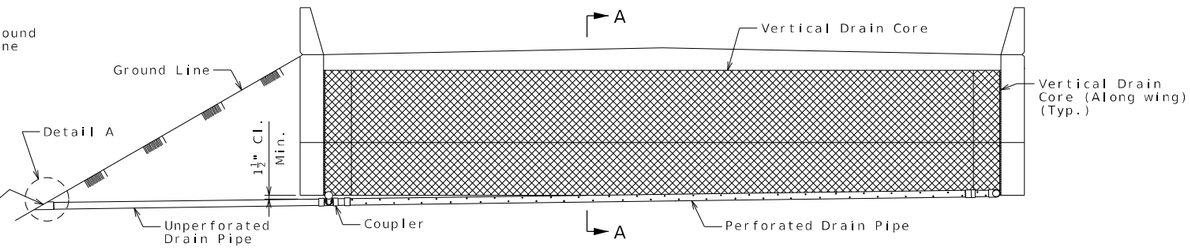
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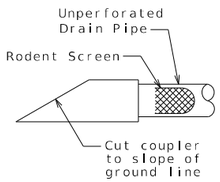
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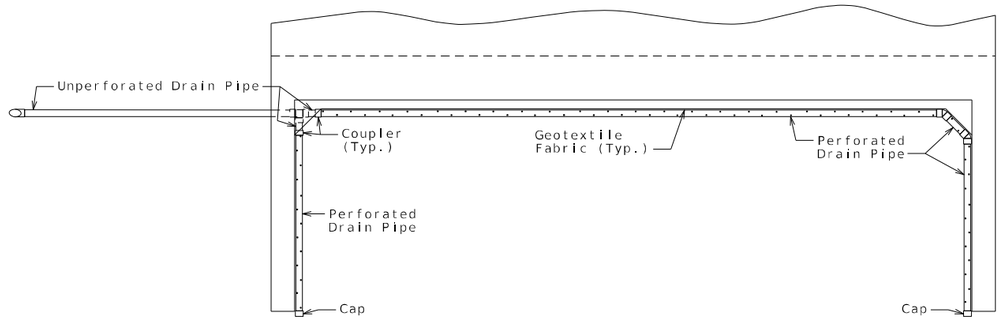
ELEVATION OF WING



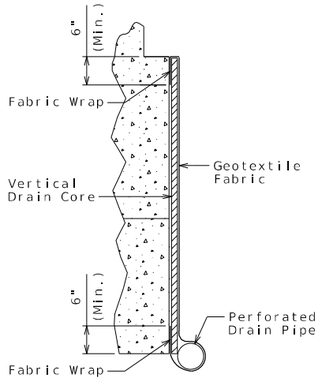
ELEVATION OF END BENT



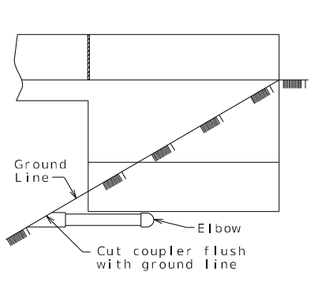
DETAIL A



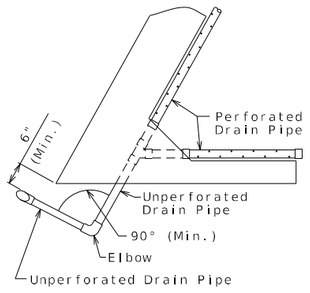
PLAN OF END BENT



PART SECTION A-A
(Section thru wing similar)



ELEVATION OF WING



PART PLAN

OPTIONAL TURNED DRAIN
(Only only when straight drain is not practical)

General Notes:

All drain pipe shall be sloped 1 to 2 percent.

Drain pipe may be either 6-inch diameter corrugated metallic-coated steel pipe underdrain, 4-inch diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4-inch diameter corrugated polyethylene (PE) drain pipe.

Drain pipe shall be placed at fill face of end bent and inside face of wings. The pipe shall slope to lowest grade of ground line, also missing the lower beam of end bent by a minimum of 1 1/2 inches.

Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
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Note: This drawing is not to scale. Follow dimensions.

VERTICAL DRAIN AT END BENTS
(Squared end bent shown, skewed end bent similar)

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SHEET NO. 10
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

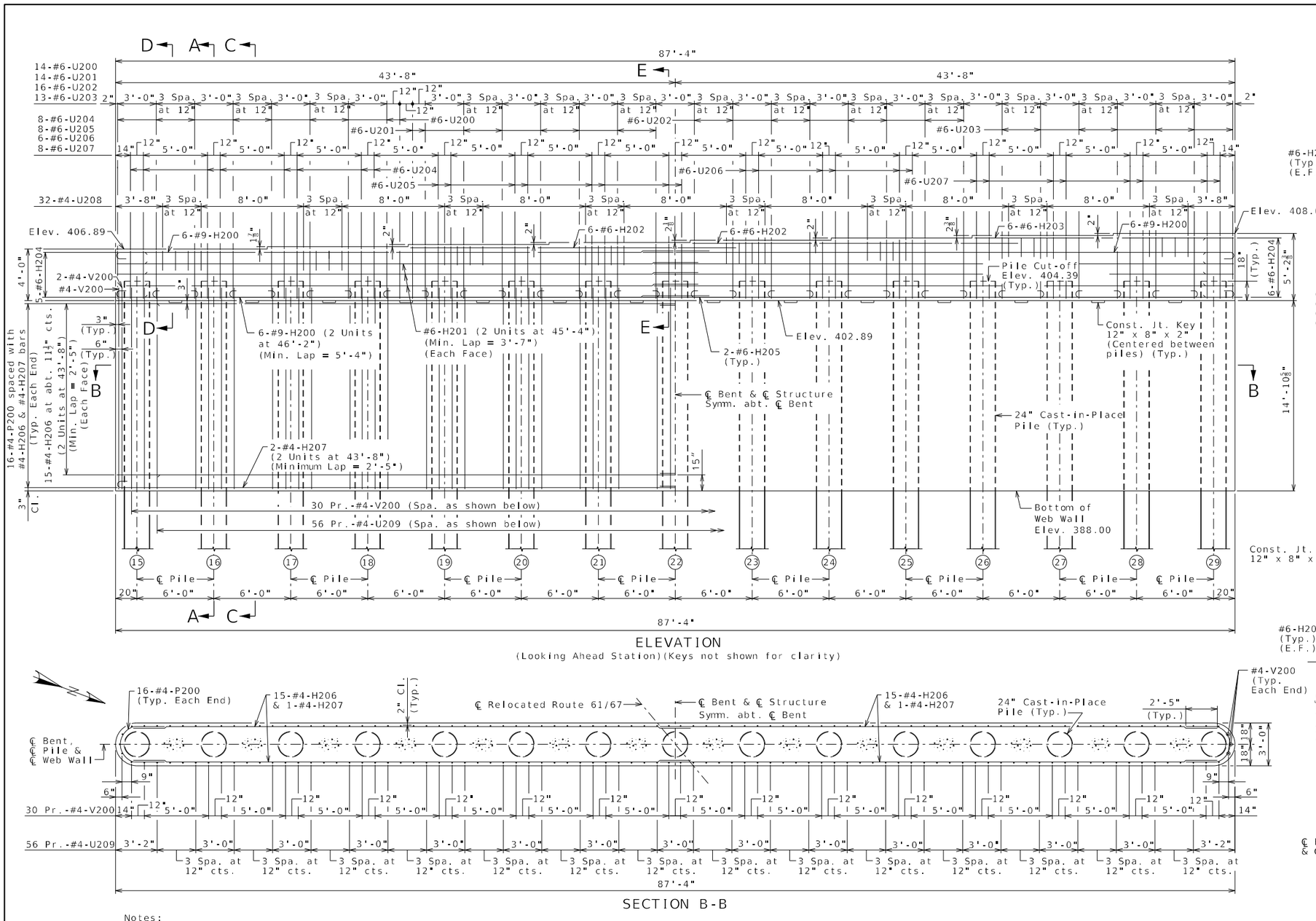
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PE-2004040784



Notes:

For details of Bent No. 2 not shown, see Sheet No. 12.

For Substructure Quantity Table for Bent No. 2, see Sheet No. 12.

For Sections D-D and E-E, see Sheet No. 12.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

Notes:

For cast-in-place concrete pile specifications, see Sheet No. 6.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 11 of 53

DETAILS OF INTERMEDIATE BENT NO. 2

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
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PROFESSIONAL ENGINEER

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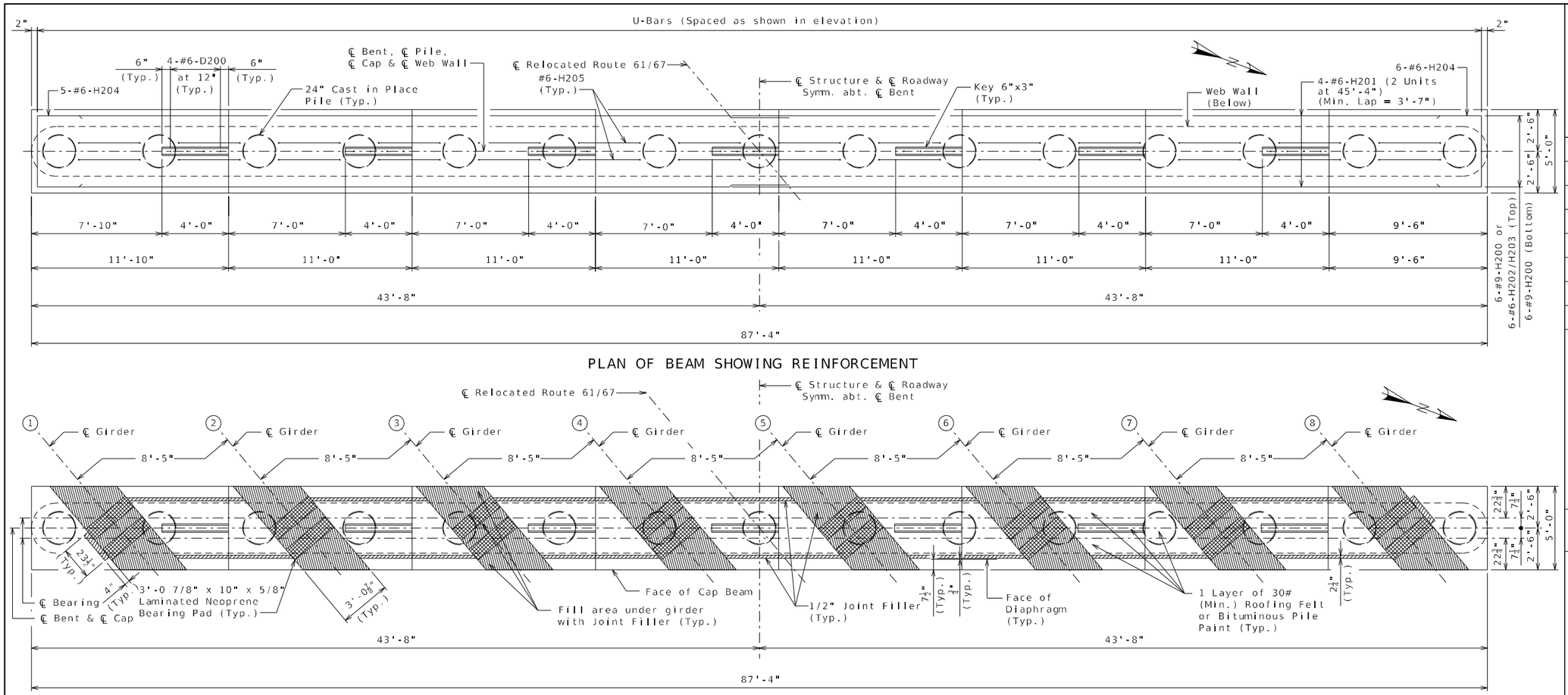
DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 11
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION
DATE

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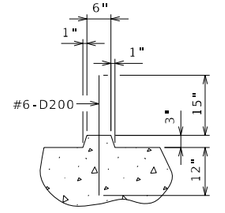
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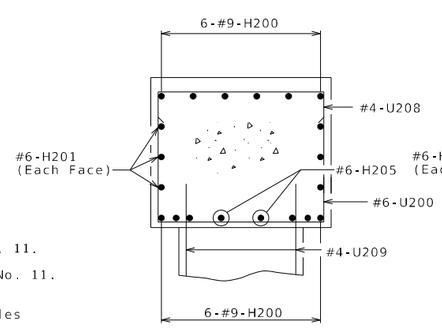


PLAN OF BEAM SHOWING REINFORCEMENT

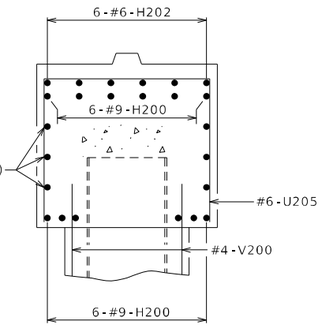
PLAN OF BEAM



SECTION THRU KEY



SECTION D-D



SECTION E-E

Notes:

For details of Bent No. 2 not shown, see Sheet No. 11.

For locations of Sections D-D and E-E, see Sheet No. 11.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

For steps 2 inches or more, use 2 1/4 x 1/2-inch joint filler up vertical face.

Substructure Quantity Table for Bent No. 2		
Item		Quantity
Class 2 Excavation	cu. yard	80
Galvanized Cast-in-Place Concrete Piles (24 in.)	linear foot	1380
Class B Concrete (Substructure)	cu. yard	188.7
Reinforcing Steel (Bridges)	pounds	15,080

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 4.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 53

DETAILS OF INTERMEDIATE BENT NO. 2

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HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DISTRICT BR
SHEET NO. 12
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

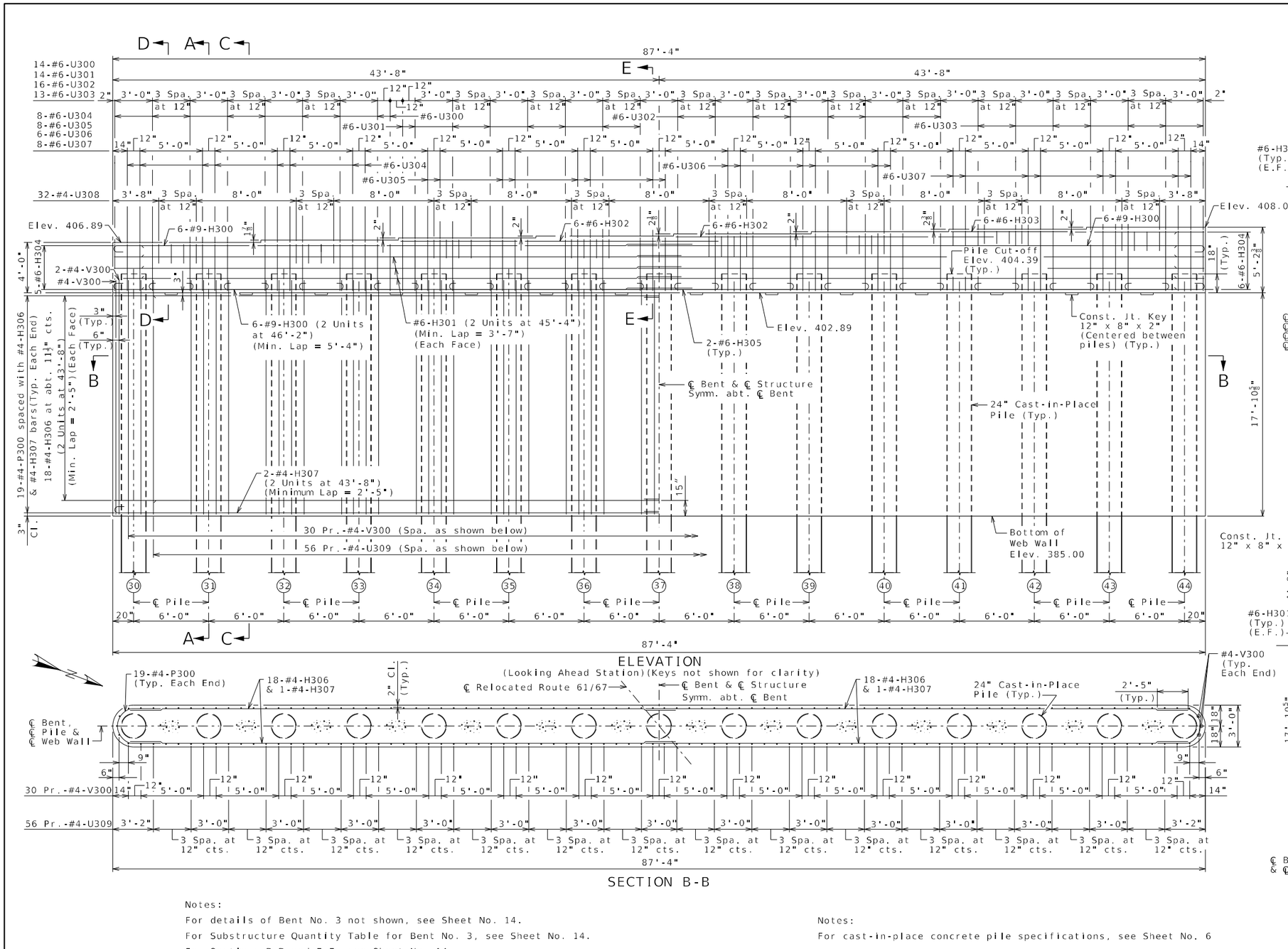
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Notes:

For details of Bent No. 3 not shown, see Sheet No. 14.

For Substructure Quantity Table for Bent No. 3, see Sheet No. 14.

For Sections D-D and E-E, see Sheet No. 14.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

Notes:

For cast-in-place concrete pile specifications, see Sheet No. 6

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 53

DETAILS OF INTERMEDIATE BENT NO. 3

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
BR	13

COUNTY JEFFERSON

JOB NO. J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A8737

DESCRIPTION

DATE

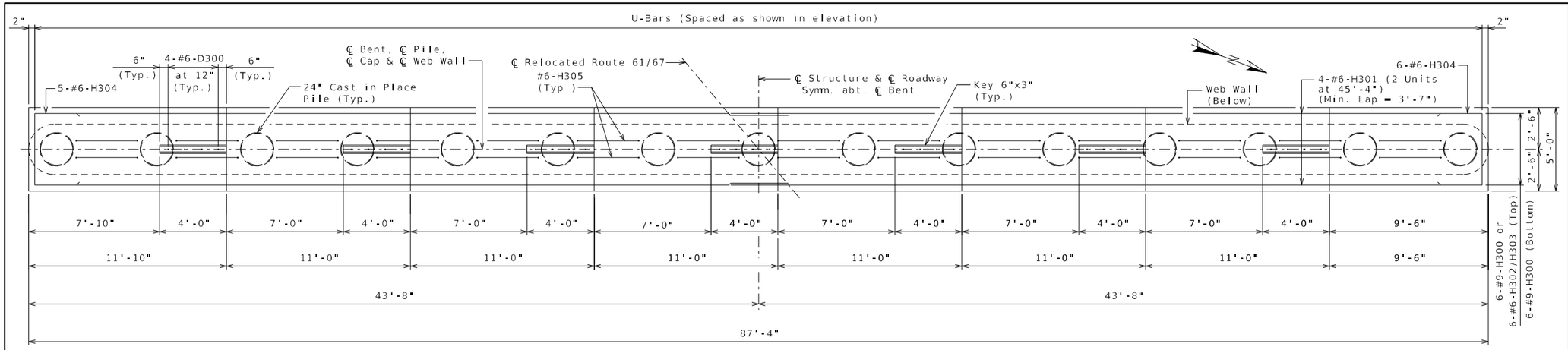
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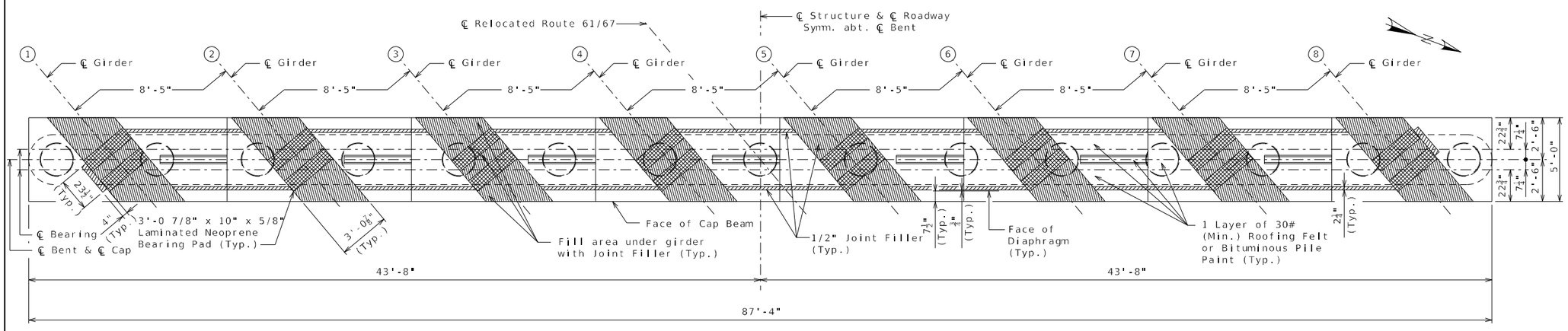
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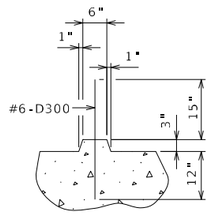
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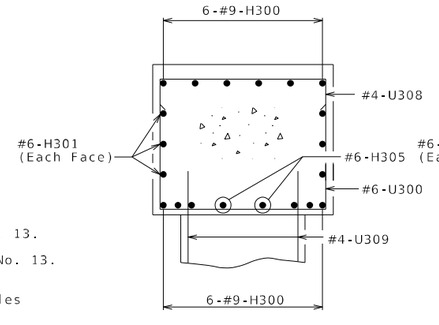
PLAN OF BEAM SHOWING REINFORCEMENT



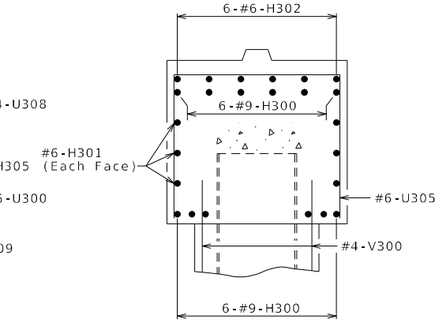
PLAN OF BEAM



SECTION THRU KEY



SECTION D-D



SECTION E-E

Notes:

For details of Bent No. 3 not shown, see Sheet No. 13.

For locations of Sections D-D and E-E, see Sheet No. 13.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

For steps 2" or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

Substructure Quantity Table for Bent No. 3		
Item		Quantity
Galvanized Cast-in-Place Concrete Piles (24 in.)	linear foot	1395
Class B Concrete (Substructure)	cu. yard	212.4
Reinforcing Steel (Bridges)	pounds	15,820

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 4.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 53

DETAILS OF INTERMEDIATE BENT NO. 3

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HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DISTRICT BR
SHEET NO. 14
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
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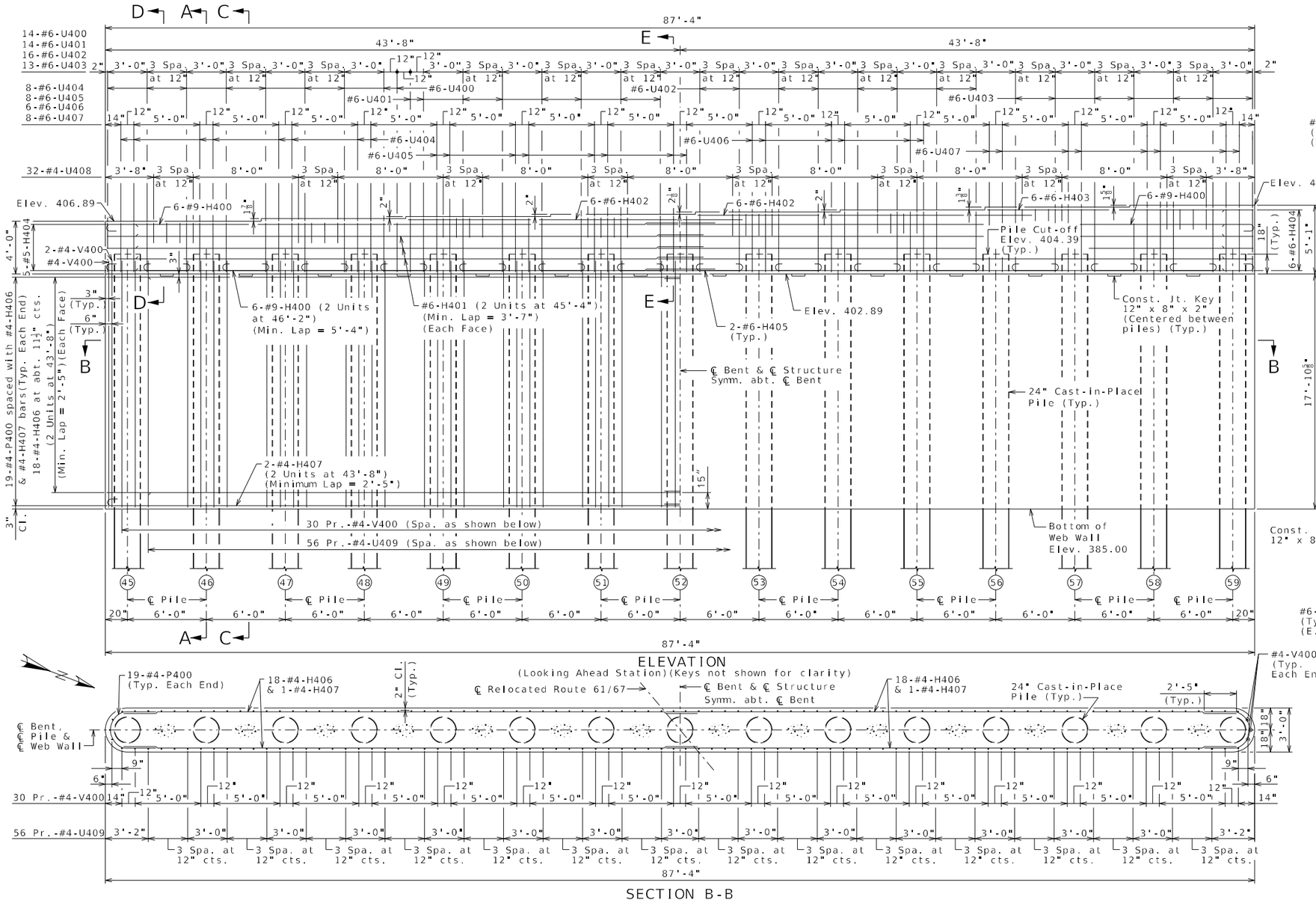
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Notes:

For details of Bent No. 4 not shown, see Sheet No. 16.

For Substructure Quantity Table for Bent No. 4, see Sheet No. 16.

For Sections D-D and E-E, see Sheet No. 16.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

Notes:

For cast-in-place concrete pile specifications, see Sheet No. 6

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 53

DETAILS OF INTERMEDIATE BENT NO. 4

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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CONTRACT ID.

PROJECT NO.

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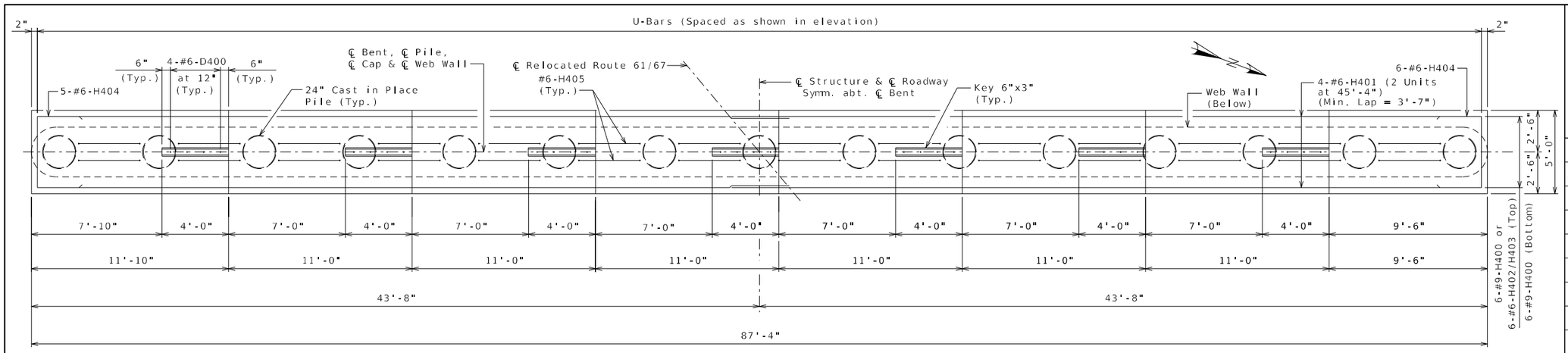
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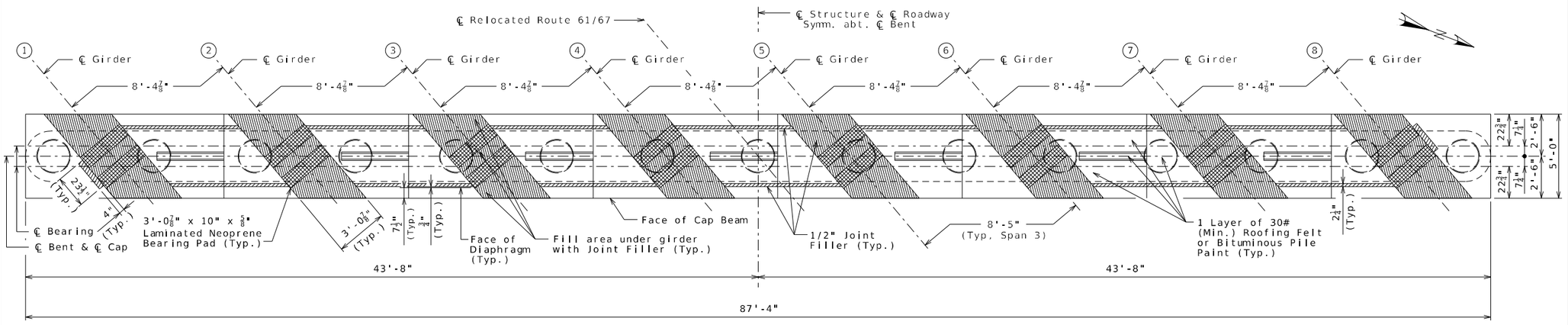
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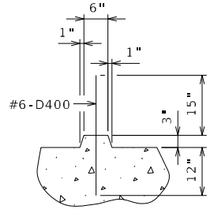
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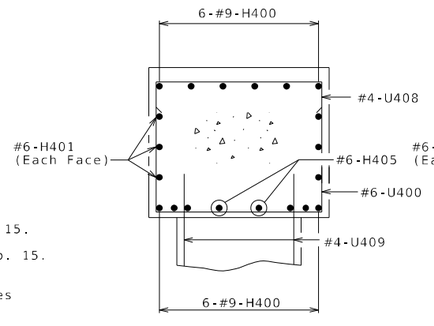
PLAN OF BEAM SHOWING REINFORCEMENT



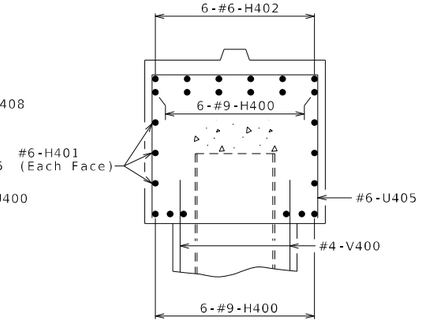
PLAN OF BEAM



SECTION THRU KEY



SECTION D-D



SECTION E-E

Notes:

For details of Bent No. 4 not shown, see Sheet No. 15.

For locations of Sections D-D and E-E, see Sheet No. 15.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches".

For steps 2" or more, use 2 1/4" x 1/2" joint filler up vertical face.

Substructure Quantity Table for Bent No. 4

Item	Quantity
Galvanized Cast-in-Place Concrete Piles (24 in.) linear foot	1380
Class B Concrete (Substructure) cu. yard	212.0
Reinforcing Steel (Bridges) pounds	15,810

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 4.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 53

DETAILS OF INTERMEDIATE BENT NO. 4

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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SHEET NO. 16
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

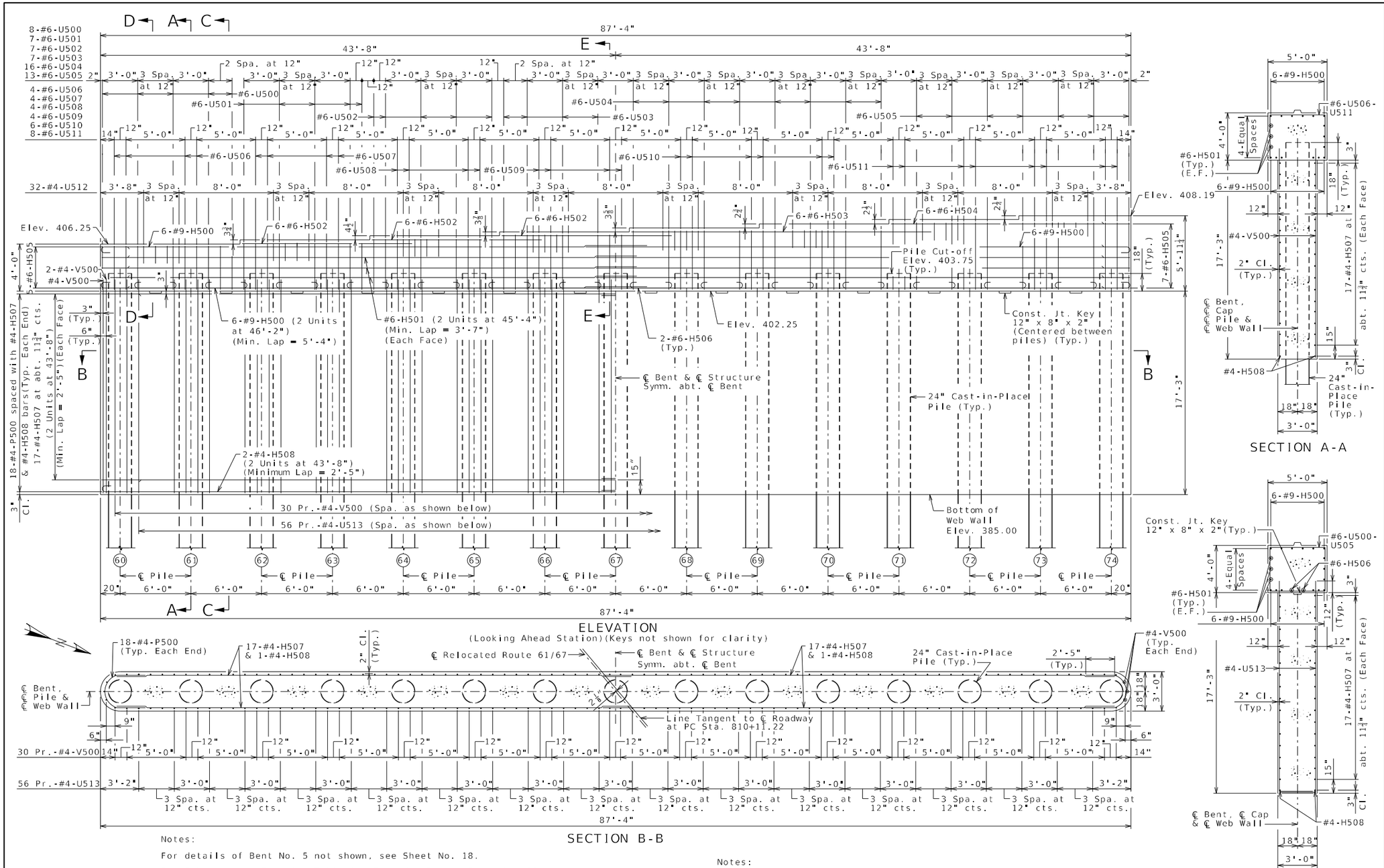
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Notes:

For details of Bent No. 5 not shown, see Sheet No. 18.

For Substructure Quantity Table for Bent No. 5, see Sheet No. 18.

For Sections D-D and E-E, see Sheet No. 18.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

Notes:

For cast-in-place concrete pile specifications, see Sheet No. 6

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 17 of 53

DETAILS OF INTERMEDIATE BENT NO. 5

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 17
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

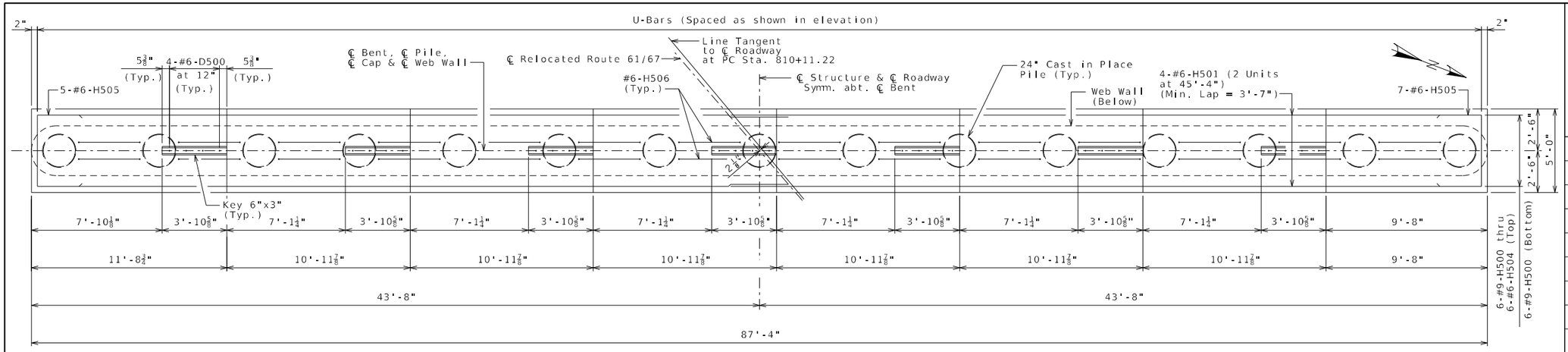
DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

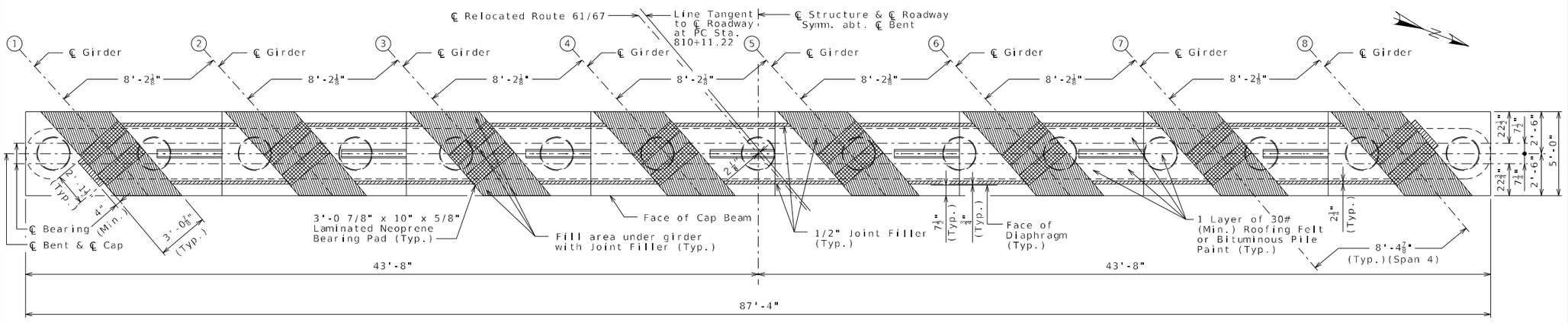
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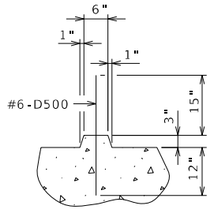
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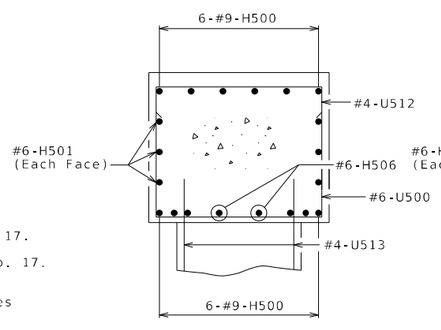
PLAN OF BEAM SHOWING REINFORCEMENT



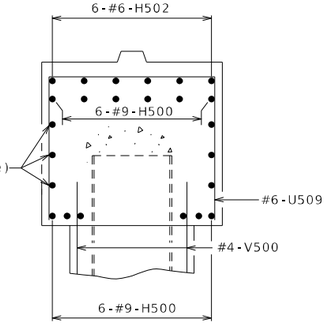
PLAN OF BEAM



SECTION THRU KEY



SECTION D-D



SECTION E-E

Notes:

For details of Bent No. 5 not shown, see Sheet No. 17.

For locations of Sections D-D and E-E, see Sheet No. 17.

All vertical reinforcing bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

For steps 2" or more, use 2 1/4 x 1/2 inch joint filler up vertical face.

Substructure Quantity Table for Bent No. 5		
Item		Quantity
Galvanized Cast-in-Place Concrete Piles (24 in.)	linear foot	1380
Class B Concrete (Substructure)	cu. yard	215.1
Reinforcing Steel (Bridges)	pounds	15,950

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 4.

DETAILS OF INTERMEDIATE BENT NO. 5

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

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HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 18
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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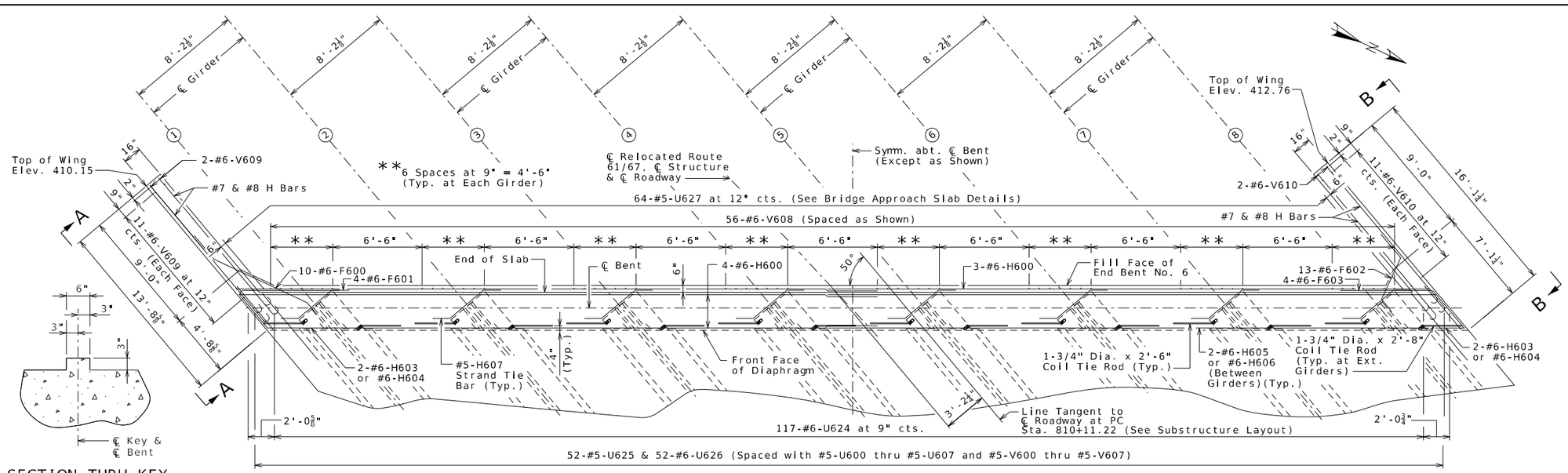
DESCRIPTION	DATE

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

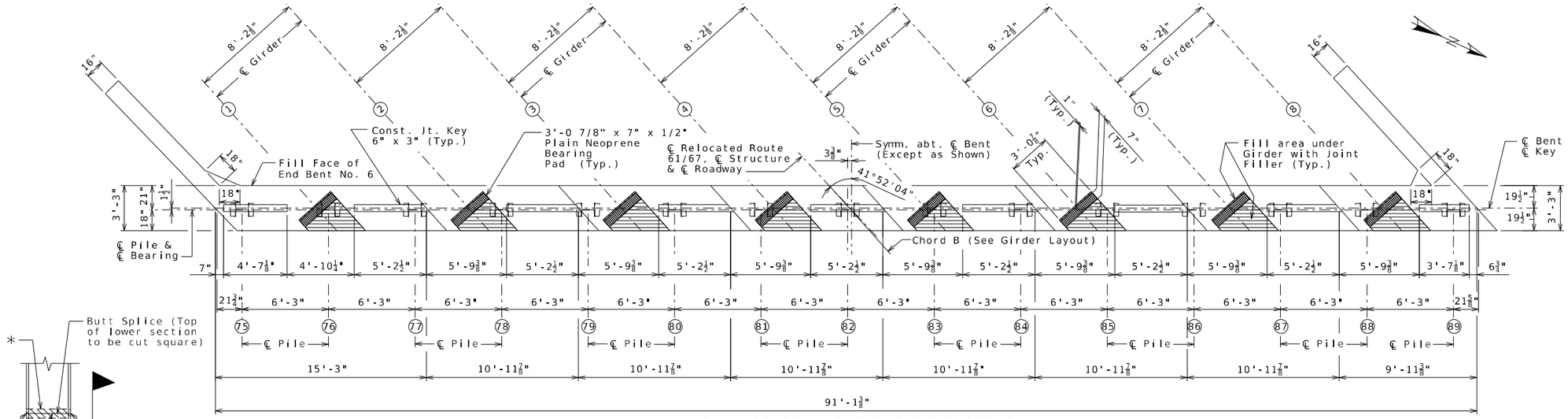
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SECTION THRU KEY

PLAN



PLAN OF BEAM SHOWING DIMENSIONS



STEEL PILE SPLICE

(If required)

* Galvanizing material shall be omitted or removed one inch clear of weld locations in accordance with Sec 702.

Notes:

For details of End Bent No. 6 not shown, see Sheets No. 20 & 21.

Strands at end of girders shall be field bent or, if necessary, cut in field to maintain 1 1/2" minimum clearance to fill face of end bent.

Bend #6-F600 bars shall be bent in the field to clear girders.

For locations and details of Coil Tie Rods and #5-H607 (Stand Tie Bar), see Sheets No. 23 or 24.

For details of Vertical Drain at End Bents, see Sheet No. 10.

All concrete in the end bent above the const. jt. and below top of slab shall be Class B-2.

For Elevation A-A & B-B, see Sheet No. 21.

Notes:

For Substructure Quantity Table, see Sheet No. 20.

All vertical reinforcing in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

All U bars & V bars in the End Bent are to be parallel to the ℄ Relocated Route 61/67.

For reinforcement of the Type D Barrier, see Sheets No. 34 & 35.

For details of Bridge Approach Slab, see Sheet No. 36.

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 19 of 53

DETAILS OF END BENT NO. 6

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 19
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

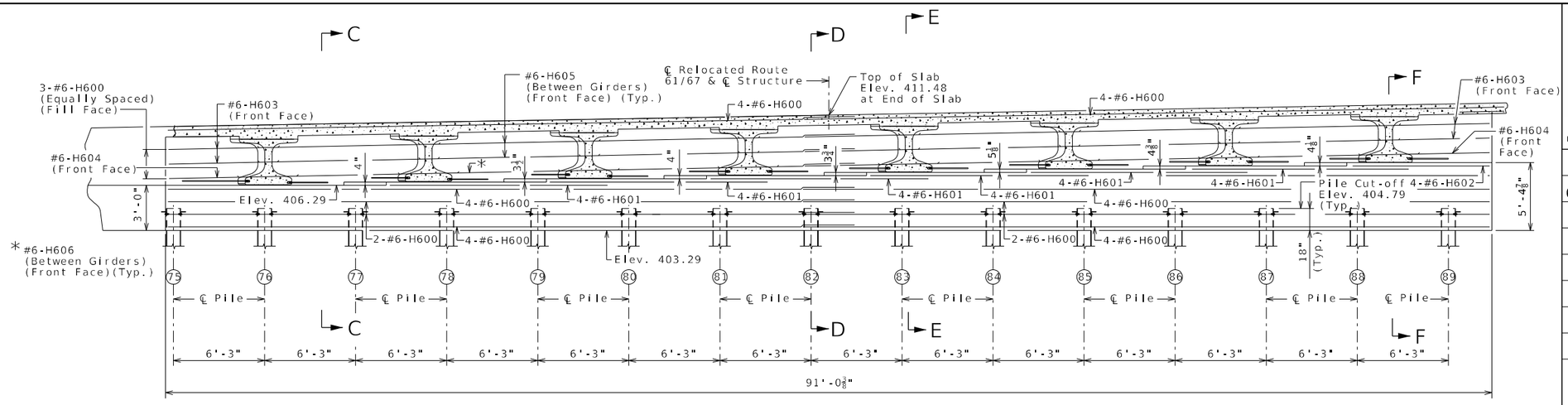
DESCRIPTION | DATE

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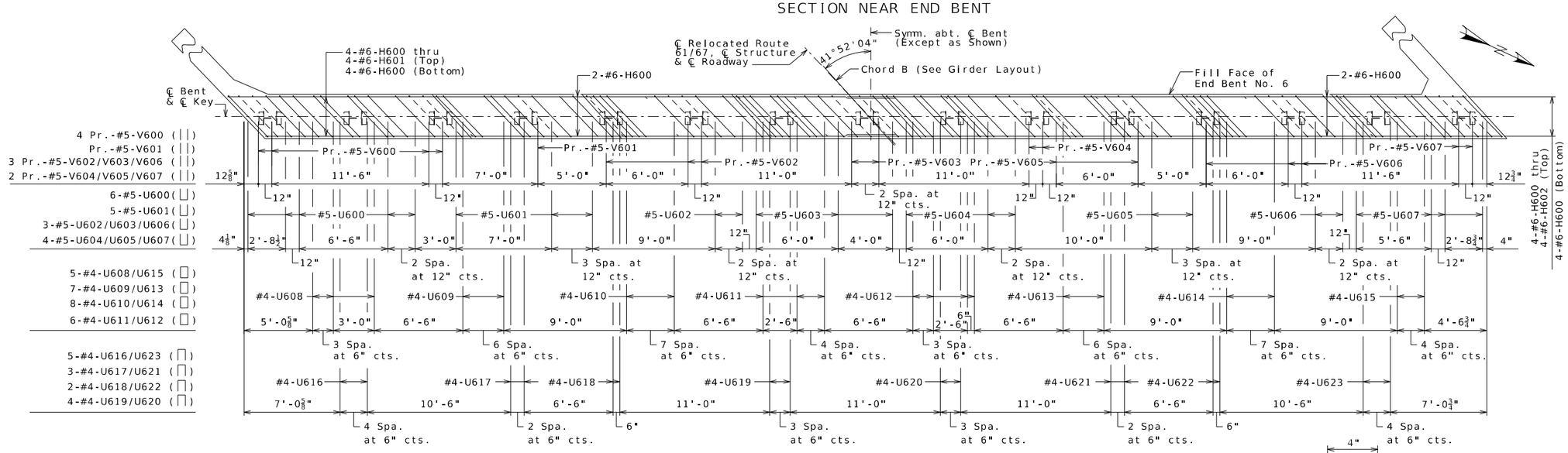
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SECTION NEAR END BENT



PLAN OF BEAM SHOWING REINFORCEMENT

SUBSTRUCTURE QUANTITY TABLE FOR END BENT NO. 6		
ITEM		QUANTITY
Class 1 Excavation	cu. yard	180
Galvanized Structural Steel Piles (12 in.)	linear foot	1425
Prebore for Piling	linear foot	230
Pile Point Reinforcement	each	14
Class B Concrete (Substructure)	cu. yard	49.6
Plain Neoprene Bearing Pad	each	8

Note: These quantities are included in the Estimated Quantities table on Sheet No. 2.

Notes:

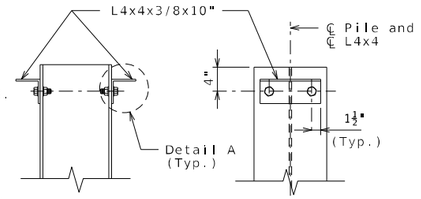
For details of End Bent No. 6 not shown, see Sheets No. 20 & 22.

For details of Vertical Drain at End Bents, see Sheet No. 10.

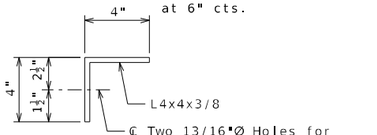
For Sections C-C, D-D, E-E, F-F & section thru wing, see Sheet No. 22.

All vertical reinforcing in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2 inches.

All U bars & V bars in the End Bent are to be parallel to ℄ Relocated Route 61/67.



DETAILS OF HP PILE ANCHORS



DETAIL A

Angles shall be coated with a minimum of two coats of non-aluminum epoxy mastic primer to provide a dry film thickness of 4 mils minimum, 8 mils maximum, or galvanized in accordance with Sec 1081. Bolts, washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 53

DETAILS OF END BENT NO. 6

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 20
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

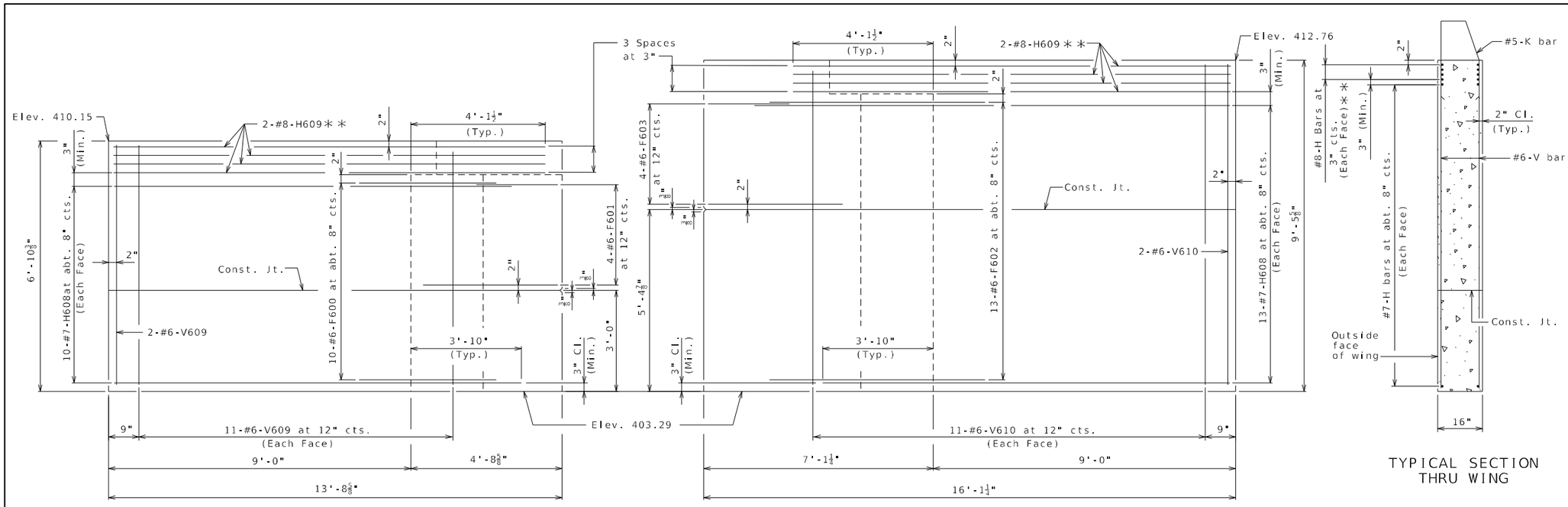
DESCRIPTION | DATE

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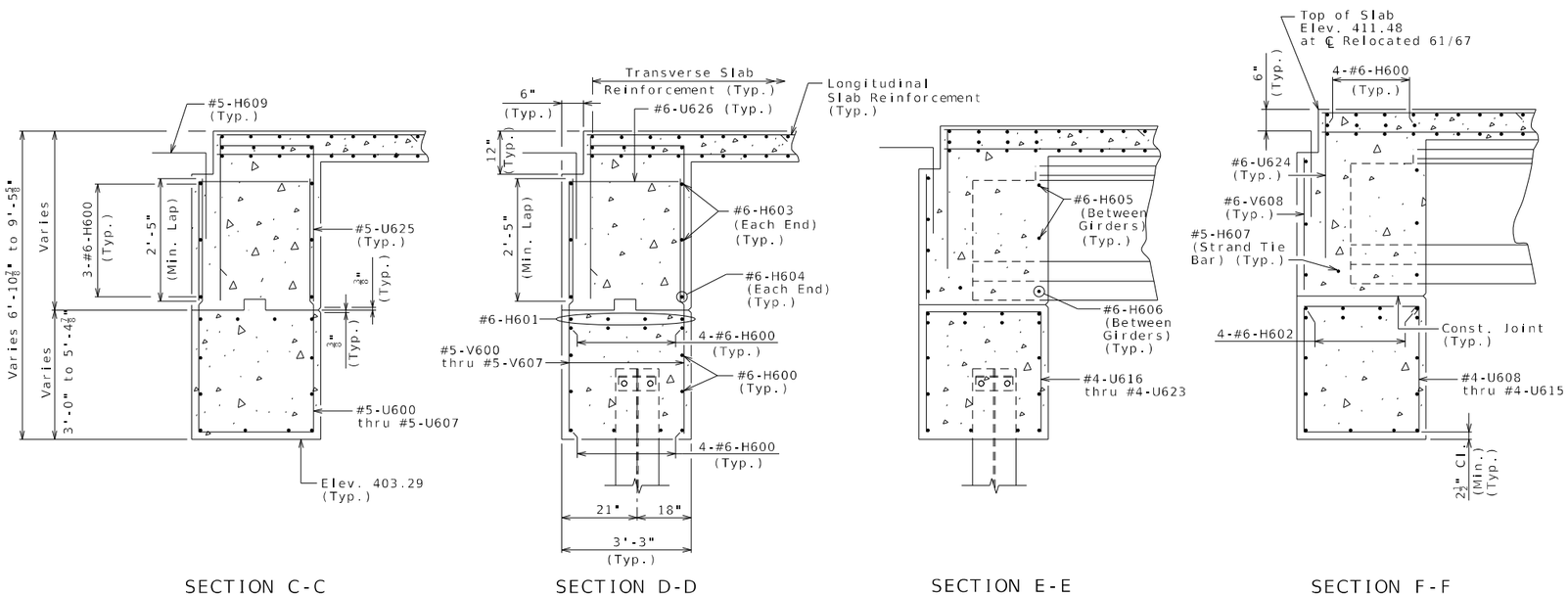
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* * Note: Place H609 bars parallel to grade.



Notes:

For details of End Bent No. 6 not shown, see Sheets No. 19 & 20.

All concrete in the end bent above the const. jt. and below top of slab shall be Class B-2.

Bend #6-F600 bars in field to clear beams.

For reinforcement of the Type D Barrier not shown, see Sheets No. 34 & 35.

For details of Vertical Drain at End Bents, see Sheet No. 10.

For location of Elevations A-A & B-B, see Sheet No. 19.

For location of Sections C-C thru F-F, see Sheet No. 20.

For details of Bridge Approach Slab, see Sheet No. 36.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 21 of 53

DETAILS OF END BENT NO. 6

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 21
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

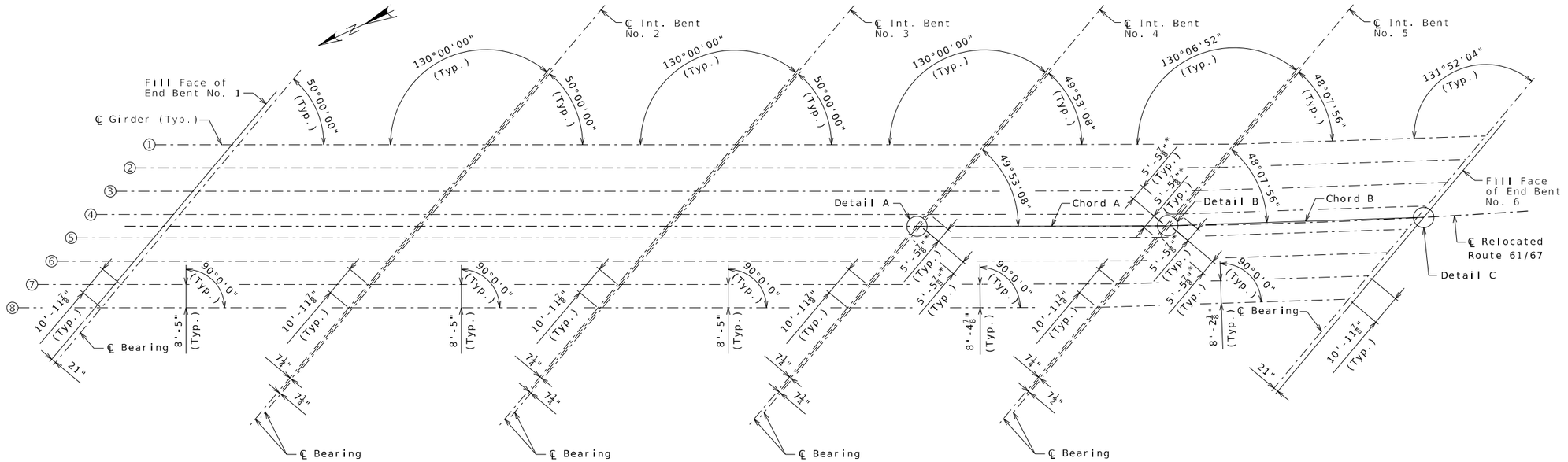
DESCRIPTION | DATE

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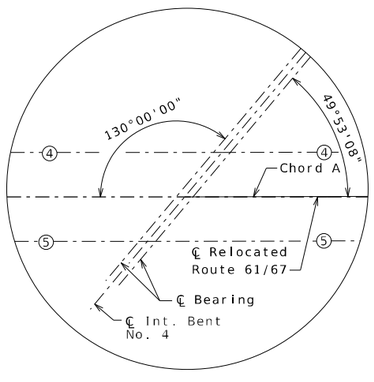
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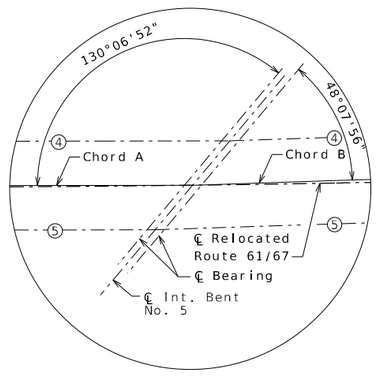
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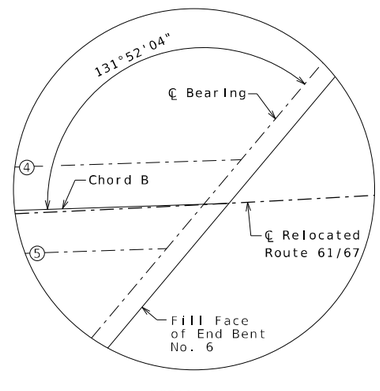
PLAN



DETAIL A



DETAIL B



DETAIL C

Notes:
All Bents are parallel.
All Dimensions are horizontal.
*Dimensions along centerline of bearing are to Chords A & B.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 22 of 53

GIRDER LAYOUT

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 22
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

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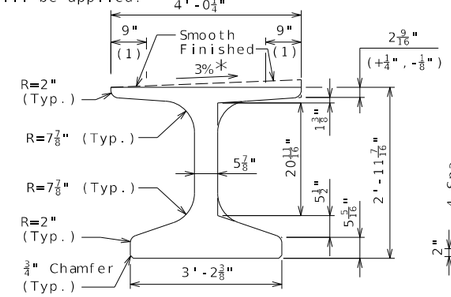
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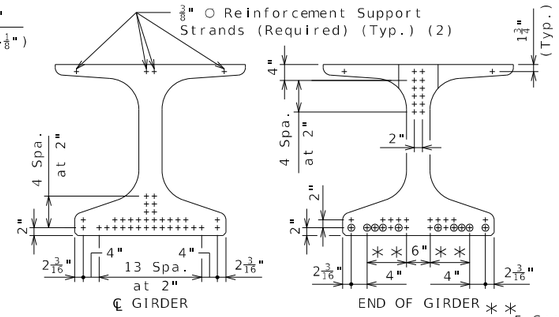
(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about ℄ Girder. May be moved laterally in pairs.



DIMENSIONS

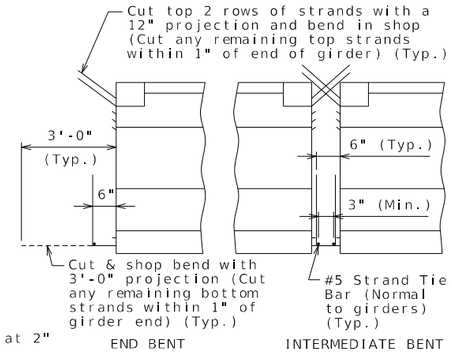
*Slope top flange of NU-Girders in Span (6-5) to account for superelevation.



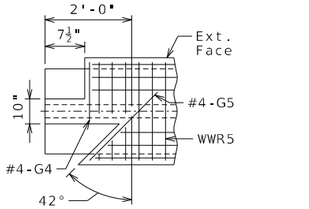
STRAND ARRANGEMENT

+ Indicates prestressing strand.

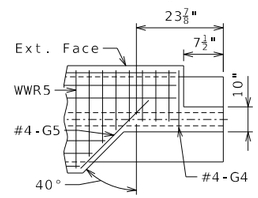
○ Indicates cut & shop bend with 3'-0" projection.



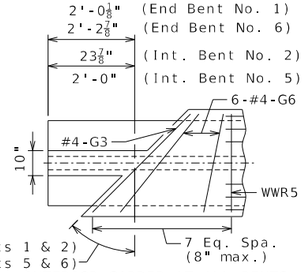
STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT NO. 5
Rotate 180° for right ext.



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT NO. 2
Rotate 180° for right ext.



INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT

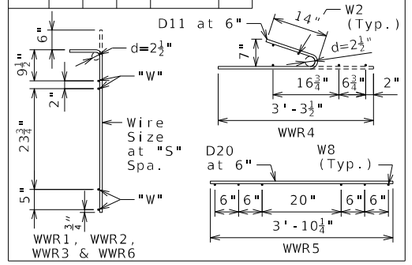
TOP FLANGE BLOCKOUT

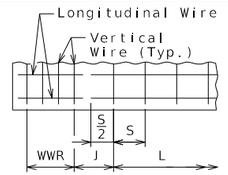
BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAMS
112	3 G1	2'-10"	8	16" 16" = S; SHAPE 8
2	4 G3	5'-0"	20	
2	4 G4	2'-3"	20	
2	4 G5	3'-2"	20	
12	4 G6	Varies	20	SHAPE 20

G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans. Half no. of G3, G4, G5, and G6 not required for ext. girders of end spans.

WELDED WIRE REINFORCEMENT - EACH GIRDER					
MARK	WIRE SIZE	S	W	L	J
WWR1	D31	4"	W12	7'-8"	6¾"
WWR2	D31	12"	W12	17'-0"	12"
WWR3	D31	24"	W12	16'-0"	12"
WWR6	D31	2"	W12	16"	4"

BENDING DIAGRAMS



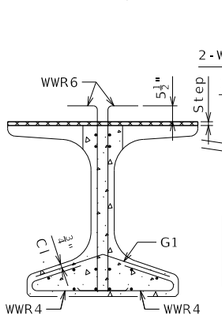


S = Vertical wire spacing

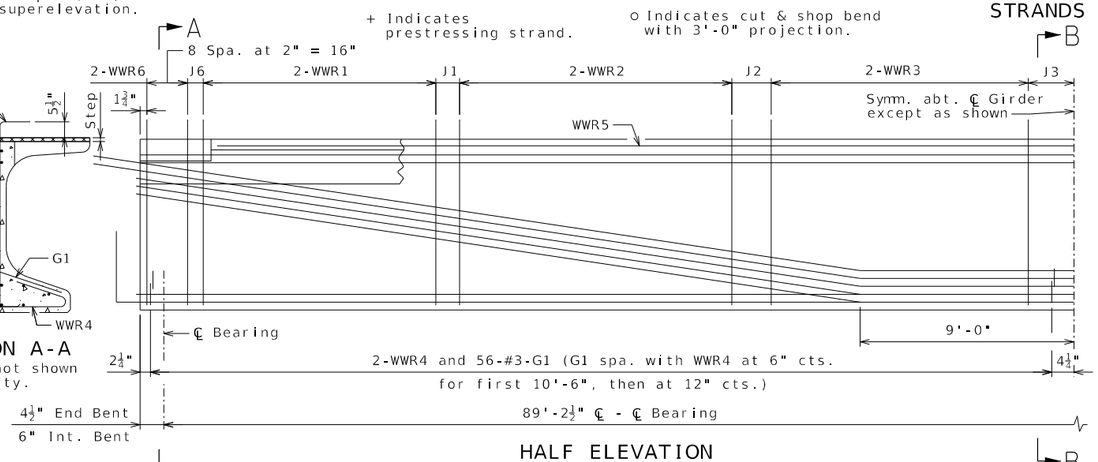
L = Length of WWR mats

J = Distance between WWR mats

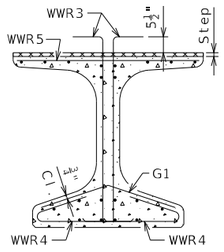
WELDED WIRE PLACEMENT



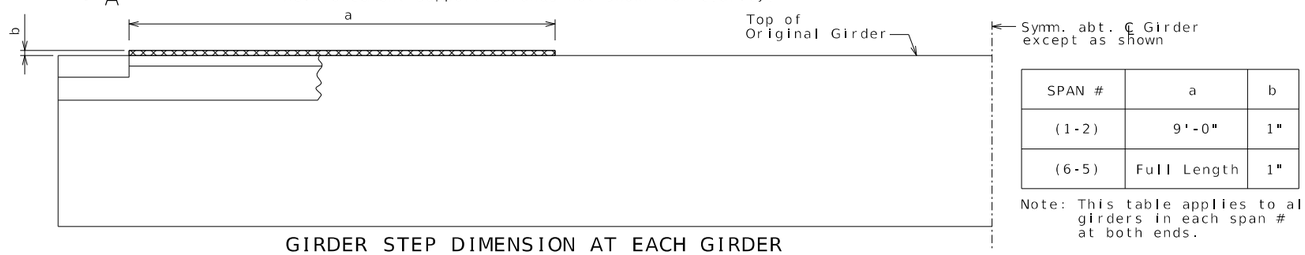
SECTION A-A
Strands not shown for clarity.



HALF ELEVATION
Reinforcement support strands not shown for clarity.



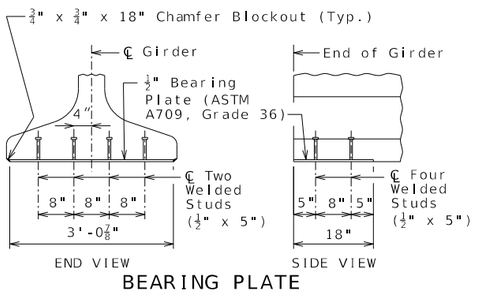
SECTION B-B
Strands not shown for clarity.



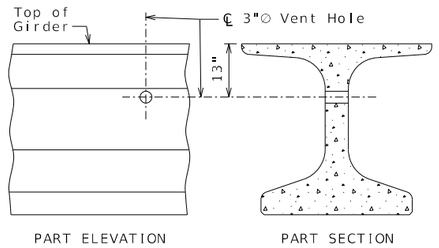
SPAN #	a	b
(1-2)	9'-0"	1"
(6-5)	Full Length	1"

Note: This table applies to all girders in each span # at both ends.

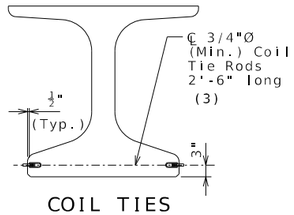
GIRDER STEP DIMENSION AT EACH GIRDER



BEARING PLATE



VENT HOLE
Place vent holes at or near upgrade ⅓ point of girders and clear reinforcing steel or strands by 1½" minimum and steel interm.



COIL TIES
Exclude coil tie at exterior face of exterior girders except at integral end bents.

(3) 2'-11" at exterior face of exterior girders at end bents

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.

WWR shall not be epoxy coated.

General Notes:

Concrete for prestressed beams shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 34 0.6" ∅ Grade 270 strands with an initial prestress force of 1494 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same, except for coil ties, top flange blockout and coil inserts for slab drains.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 29.

For location of coil inserts at slab drains, see Sheet No. 28.

For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 8, 20 & 27.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

NU-GIRDERS - SPANS (1-2) & (6-5)

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 23
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

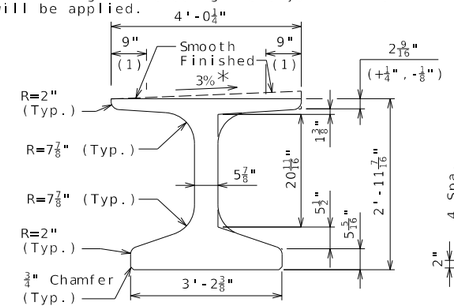
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PE-2004000786
314.770.0467

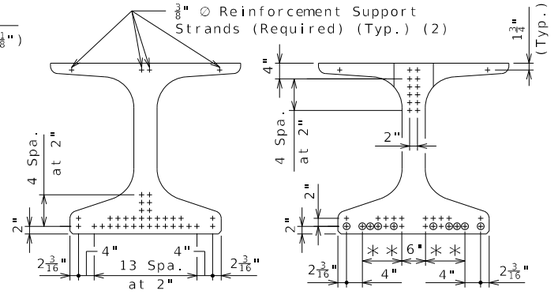
(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about ℄ Girder. May be moved laterally in pairs.



DIMENSIONS

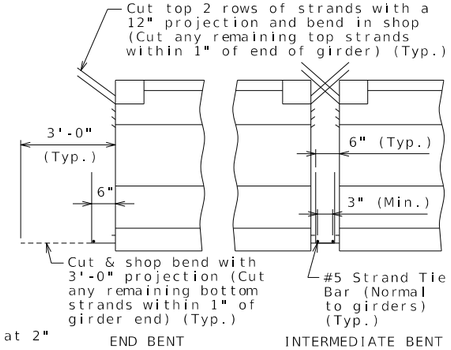
*Slope top flange of NU-Girders in Span 6-5 to account for superelevation.



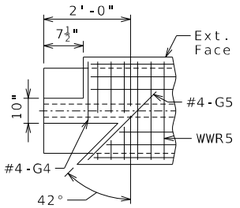
STRAND ARRANGEMENT

+ Indicates prestressing strand.

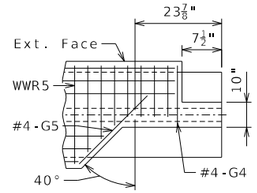
○ Indicates cut & shop bend with 3'-0" projection.



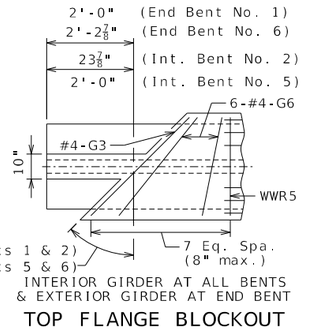
STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT NO. 5
Rotate 180° for right ext.



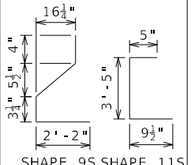
LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT NO. 2
Rotate 180° for right ext.



INTERIOR GIRDER AT ALL BENTS & EXTERIOR GIRDER AT END BENT

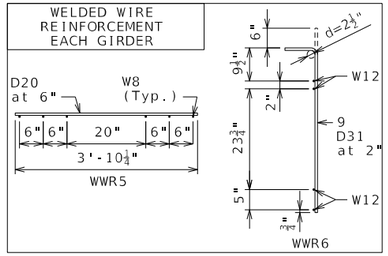
TOP FLANGE BLOCKOUT

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAMS
176	5 B1	4'-5"	11S	
196	4 D1	4'-0"	9S	
2	4 G3	5'-0"	20	
2	4 G4	2'-3"	20	
2	4 G5	3'-2"	20	
12	4 G6	Varies	20	



G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans. Half no. of G3, G4, G5, and G6 not required for ext. girders of end spans.

WELDED WIRE REINFORCEMENT EACH GIRDER



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

General Notes:

Concrete for prestressed girders shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 34 0.6"∅ Grade 270 strands with an initial prestress force of 1494 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same, except for coil ties, and top flange blockout and coil inserts for slab drains.

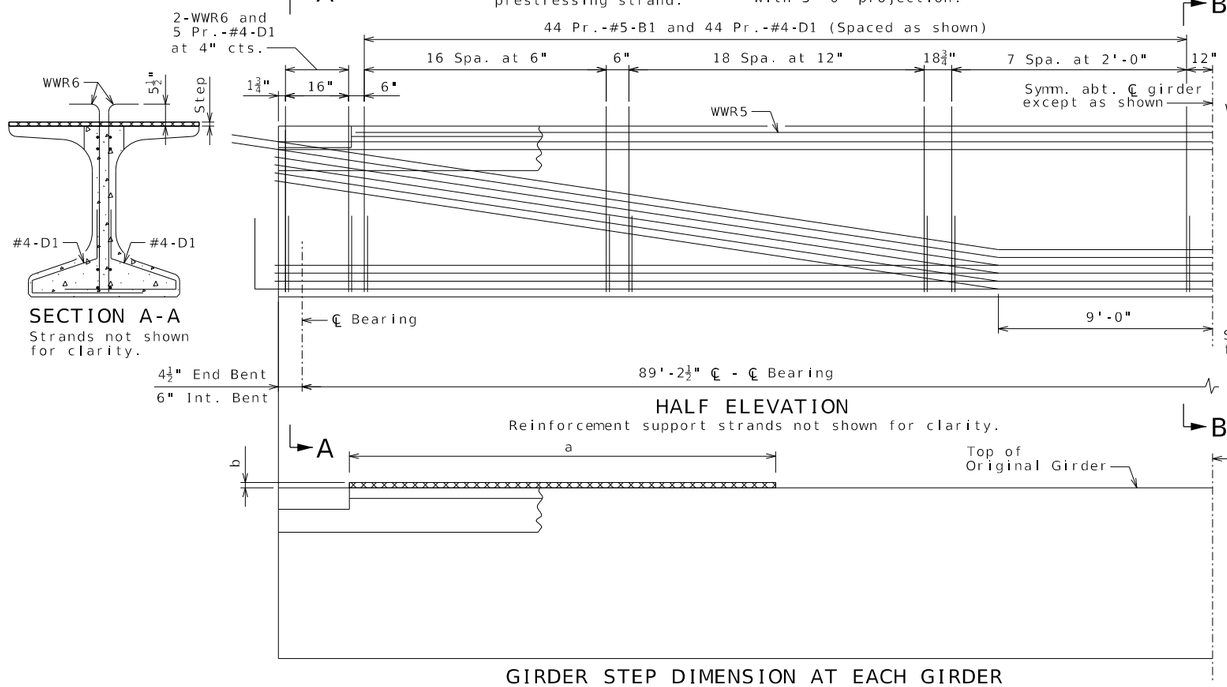
The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 29.

For location of coil inserts at slab drains, see Sheet No. 28.

For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 8, 20 & 27.

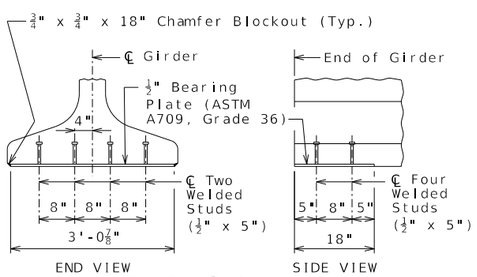
Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.



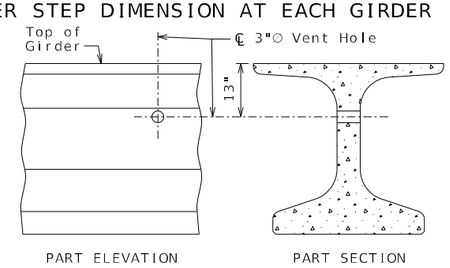
GIRDER STEP DIMENSION AT EACH GIRDER

SPAN #	a	b
(1-2)	9'-0"	1"
(6-5)	Full Length	1"

Note: This table applies to all girders in each span # at both ends.

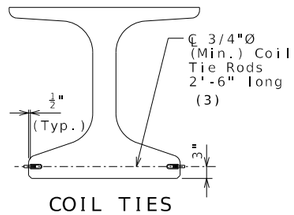


BEARING PLATE



VENT HOLE

Place vent holes at or near upgrade ⅓ point of girders and clear reinforcing steel or strands by 1½" minimum and steel interm.



COIL TIES

Exclude coil tie at exterior face of exterior girders except at integral end bents.

(3) 2'-11" at exterior face of exterior girders at end bents

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

NU-GIRDERS (ALTERNATIVE REINFORCEMENT) - SPANS (1-2) & (6-5)

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 24
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION
DATE

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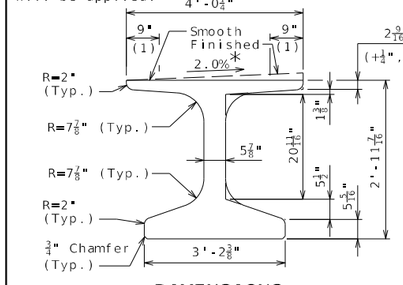
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PE-2004000786

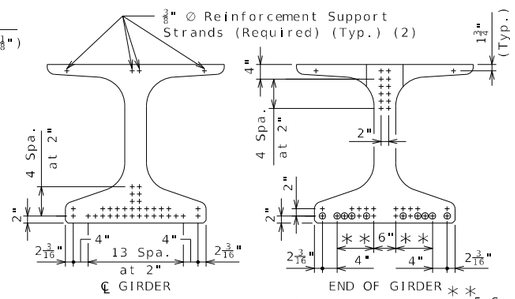
(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.

(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about ℄ Girder. May be moved laterally in pairs.



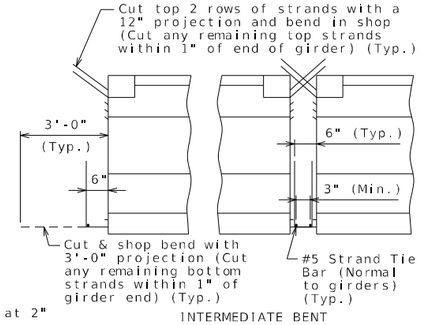
DIMENSIONS

*Slope top flange of NU-Girders in Span 4-5 to account for superelevation.



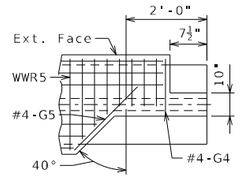
STRAND ARRANGEMENT

○ Indicates cut & shop bend with 3'-0" projection.



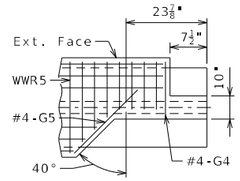
INTERMEDIATE BENT

STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT 5

Rotate 180° for right ext.



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENTS 2-3-4

Rotate 180° for right ext.

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAMS
110	3 G1	2'-10"	8	16" 16" 6" SHAPE 8
2	4 G3	5'-0"	20	
2	4 G4	2'-3"	20	
2	4 G5	3'-2"	20	
12	4 G6	Varies	20	SHAPE 20

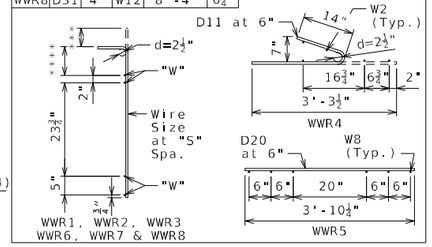
G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans.

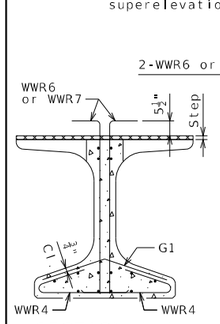
WELDED WIRE REINFORCEMENT - EACH GIRDER					
MARK	WIRE SIZE	S	W	L	J
WWR1	D31	4"	W12	8'-4"	6¾"
WWR2	D31	12"	W12	17'-0"	12"
WWR3	D31	24"	W12	16'-0"	12"
WWR6	D31	2"	W12	16"	4"
WWR7	D31	2"	W12	16"	4"
WWR8	D31	4"	W12	8'-4"	6¾"

*** = 6" (WWR1-WWR6) 7" (WWR7-WWR8)

**** = 8½" (WWR1-WWR6) 10½" (WWR7-WWR8)

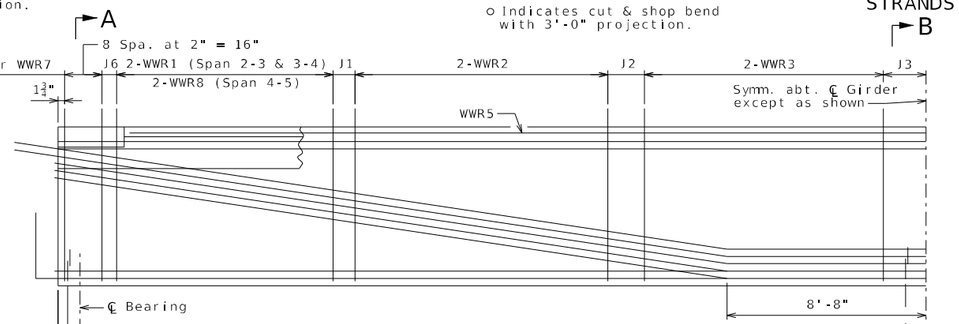
BENDING DIAGRAMS





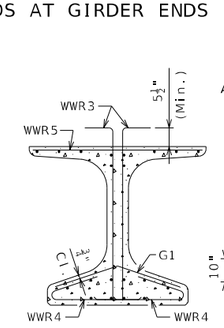
SECTION A-A

Strands not shown for clarity.



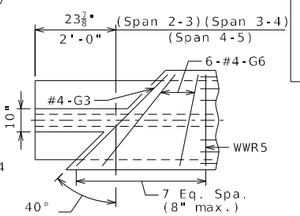
HALF ELEVATION

Reinforcement support strands not shown for clarity.



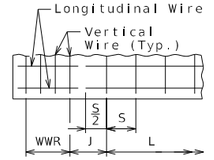
SECTION B-B

Strands not shown for clarity.



INTERIOR GIRDER AT ALL BENTS

TOP FLANGE BLOCKOUT

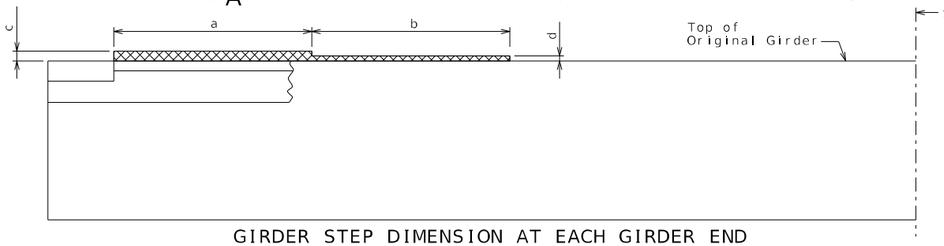


WELDED WIRE PLACEMENT

S = Vertical wire spacing

L = Length of WWR mats

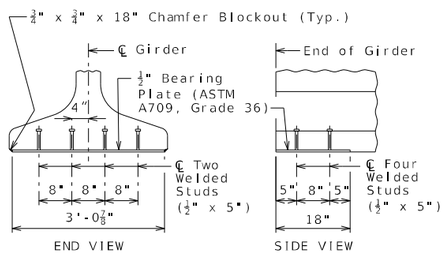
J = Distance between WWR mats



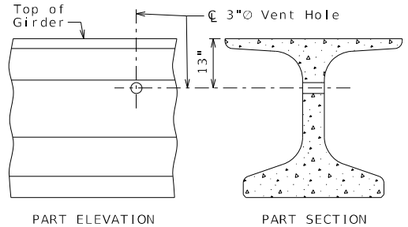
GIRDER STEP DIMENSION AT EACH GIRDER END

SPAN #	a	b	c	d
(2-3)	9'-0"	—	1"	—
(3-4)	9'-0"	—	1"	—
(4-5)	9'-0"	4'-6"	2"	1"

Note: This table applies to all girders in each span # at both ends.

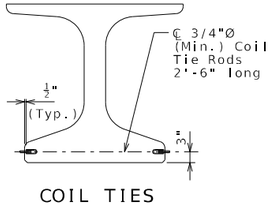


BEARING PLATE



VENT HOLE

Place vent holes at or near upgrade ⅓ point of girders and clear reinforcing steel or strands by 1½" minimum and steel interm.



COIL TIES

Exclude coil tie at exterior face of exterior girders.

TOP FLANGE BLOCKOUT

All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1", unless otherwise shown.

All bar reinforcement shall be Grade 60.

WWR shall not be epoxy coated.

General Notes:

Concrete for prestressed beams shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 34 0.6" ○ Grade 270 strands with an initial prestress force of 1494 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same, except for coil ties, top flange blockout and coil inserts for slab drains.

The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 29.

For location of coil inserts at slab drains, see Sheet No. 28.

For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 8, 20 & 27.

Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

NU-GIRDERS - SPANS (2-3), (3-4) & (4-5)

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25

ROUTE 61/67 | STATE MO

DISTRICT BR | SHEET NO. 25

COUNTY JEFFERSON

JOB NO. J6S3289

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A8737

DESCRIPTION | DATE

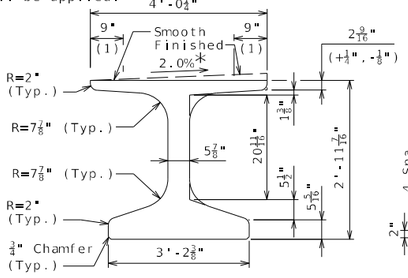
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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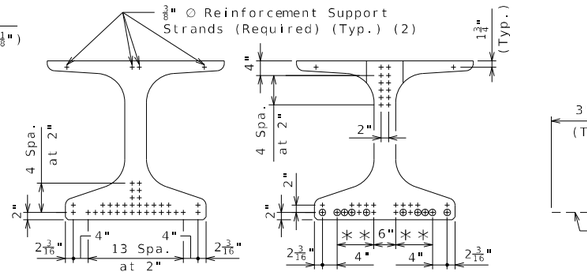
(1) Fabricator shall apply a bond breaker to this region excluding where joint filler will be applied.



DIMENSIONS

*Slope top flange of NU-Girders in Span 4-5 to account for superelevation.

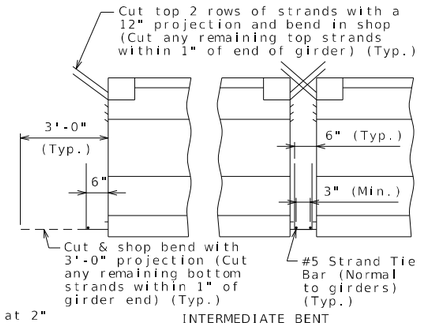
(2) Outer strands tensioned to 2.02 kips/strand and inner strands to 8 kips/strand. Placed symmetrical about ℄ Girder. May be moved laterally in pairs.



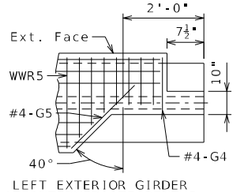
STRAND ARRANGEMENT

+ Indicates prestressing strand.

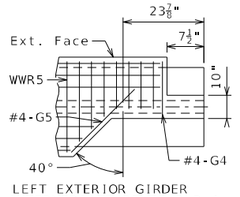
○ Indicates cut & shop bend with 3'-0" projection.



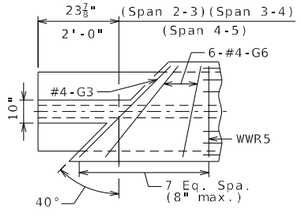
STRANDS AT GIRDER ENDS



LEFT EXTERIOR GIRDER AT INTERMEDIATE BENT 5
Rotate 180° for right ext.

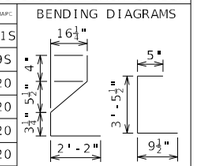


LEFT EXTERIOR GIRDER AT INTERMEDIATE BENTS 2-3-4
Rotate 180° for right ext.



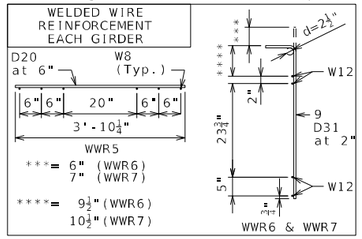
INTERIOR GIRDER AT ALL BENTS

BILL OF REINFORCING STEEL - EACH GIRDER				
NO.	SIZE & MARK	ACTUAL LENGTH	SHAPE	BENDING DIAGRAMS
176	5 B1	4'-6"	11S	
196	4 D1	4'-0"	9S	
2	4 G3	5'-0"	20	
2	4 G4	2'-3"	20	
2	4 G5	3'-2"	20	
12	4 G6	Varies	20	



G4 and G5 not required for interior girders. G3 and G6 not required for exterior girders of intermediate spans.

WELDED WIRE REINFORCEMENT EACH GIRDER



All dimensions are out to out.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual bar lengths are measured along centerline of bar to the nearest inch.

Minimum clearance to reinforcing shall be 1".

All bar reinforcement shall be Grade 60.

The two D1 bars may be furnished as one bar at the fabricator's option.

All B1 bars shall be epoxy coated.

General Notes:

Concrete for prestressed girders shall be Class A-1 with f'c = 8000 psi and f'ci = 6500 psi.

Use 34 0.6"○ Grade 270 strands with an initial prestress force of 1494 kips.

Pretensioned members shall be in accordance with Sec 1029.

Fabricator shall be responsible for location and design of lifting devices.

Exterior and interior girders are the same, except for coil ties, and top flange blockout and coil inserts for slab drains.

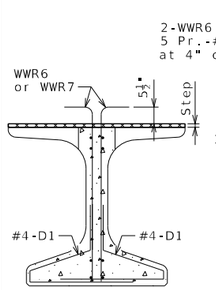
The contractor shall provide bracing necessary for lateral and torsional stability of the girders during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not drill holes in the girders.

For Girder Camber Diagram, see Sheet No. 29.

For location of coil inserts at slab drains, see Sheet No. 28.

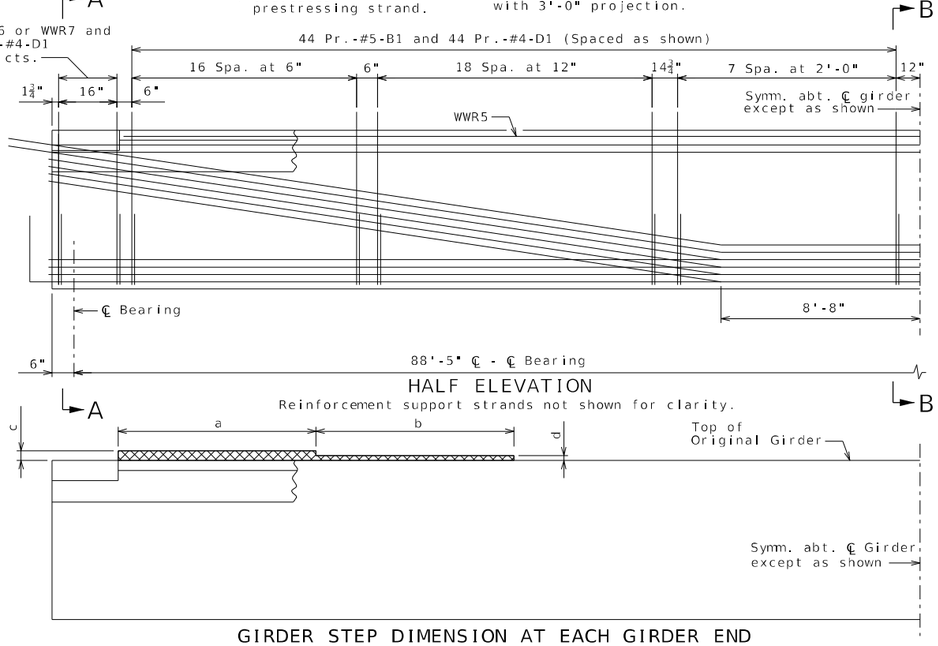
For location of coil ties and #6 bars at concrete bent diaphragms, see Sheets No. 8, 20 & 27.

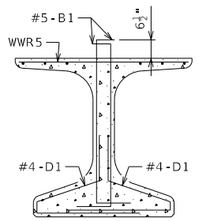
Alternate bar reinforcing steel details are provided and may be used. The same type of reinforcing steel shall be used for all girders in all spans.



SECTION A-A

Strands not shown for clarity.





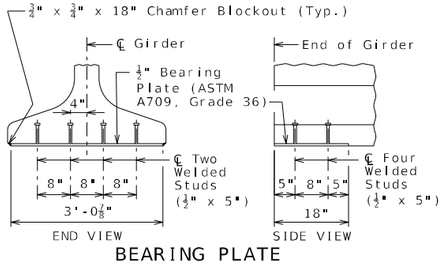
SECTION B-B

Strands not shown for clarity.

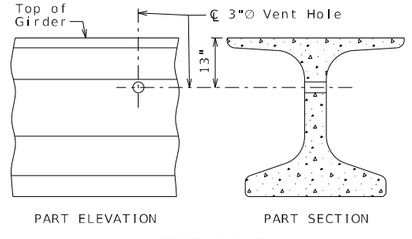
SPAN #	a	b	c	d
(2-3)	9'-0"	—	1"	—
(3-4)	9'-0"	—	1"	—
(4-5)	9'-0"	4'-6"	2"	1"

Note: This table applies to all girders in each span # at both ends.

GIRDER STEP DIMENSION AT EACH GIRDER END

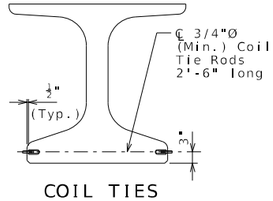


BEARING PLATE



VENT HOLE

Place vent holes at or near upgrade ⅓ point of girders and clear reinforcing steel or strands by 1½" minimum and steel interm.



COIL TIES

Exclude coil tie at exterior face of exterior girders.

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Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

NU-GIRDERS (ALTERNATIVE REINFORCEMENT - SPANS (2-3), (3-4) & (4-5)

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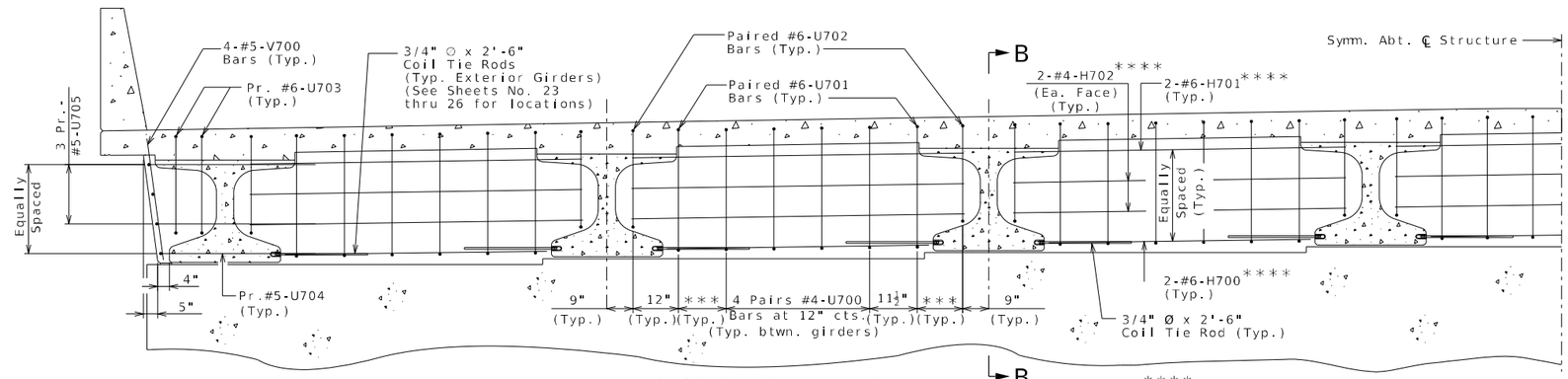
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SHEET NO. 26
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

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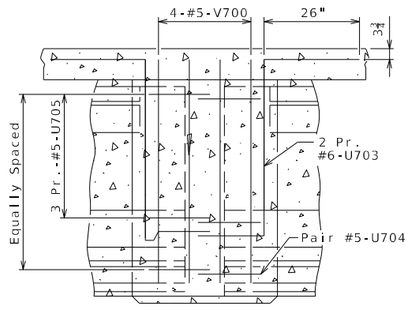
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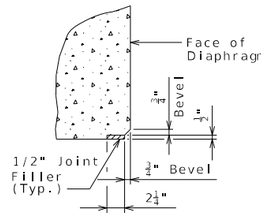
SECTION AT INTERIOR BENT

Note: For vertical locations of coil inserts on girders, see Sheets No. 23 thru 26.

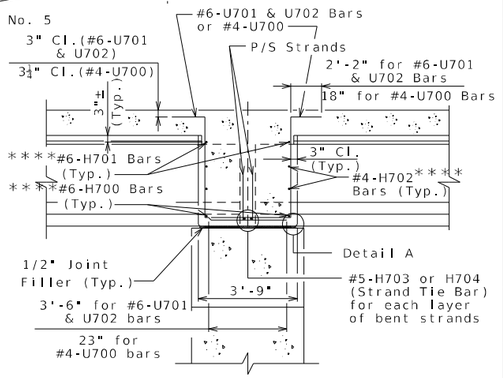
**** Cut to fit at Int. Bent No. 5



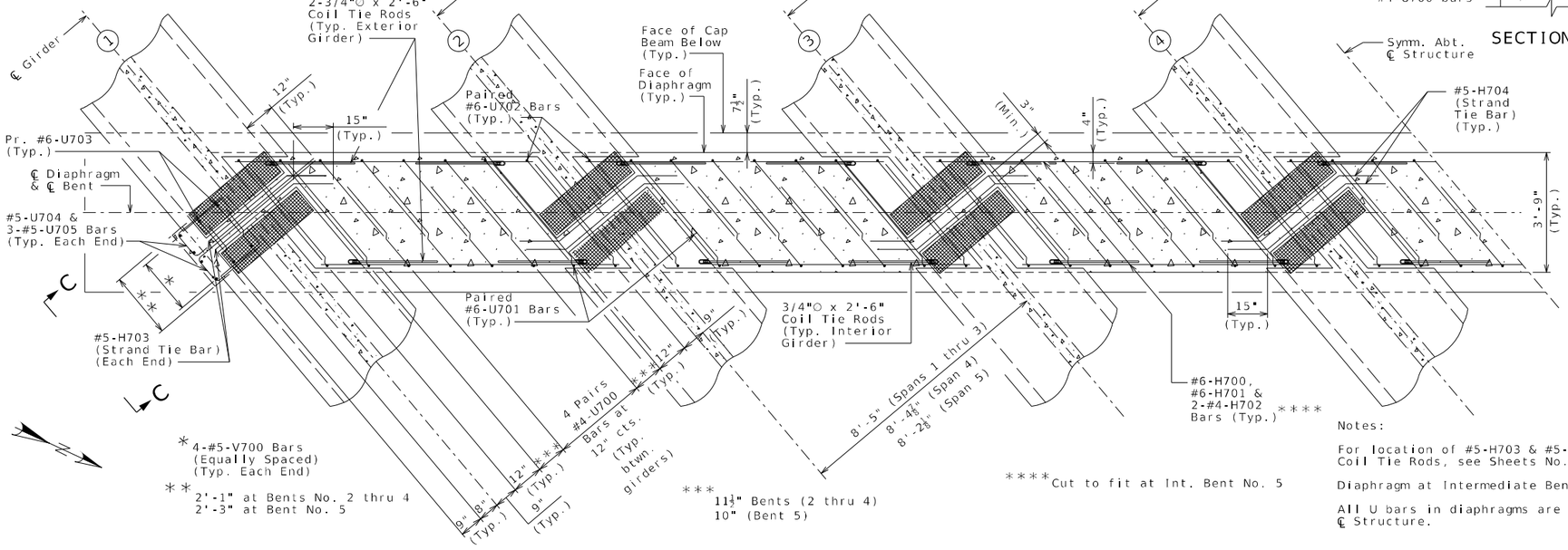
SECTION C-C



DETAIL A



SECTION B-B



* 4-#5-V700 Bars (Equally Spaced) (Typ. Each End)

** 2'-1" at Bents No. 2 thru 4
2'-3" at Bent No. 5

*** 11½" Bents (2 thru 4)
10" (Bent 5)

**** Cut to fit at Int. Bent No. 5

SECTION THRU DIAPHRAGM AT INTERIOR BENT

Notes:

For location of #5-H703 & #5-H704 (Strand Tie Bars) and Coil Tie Rods, see Sheets No. 23 thru 26.

Diaphragm at Intermediate Bent shall be built vertical.

All U bars in diaphragms are to be placed parallel to ℄ Structure.

DETAILS OF CONCRETE DIAPHRAGM AT INTERMEDIATE BENTS

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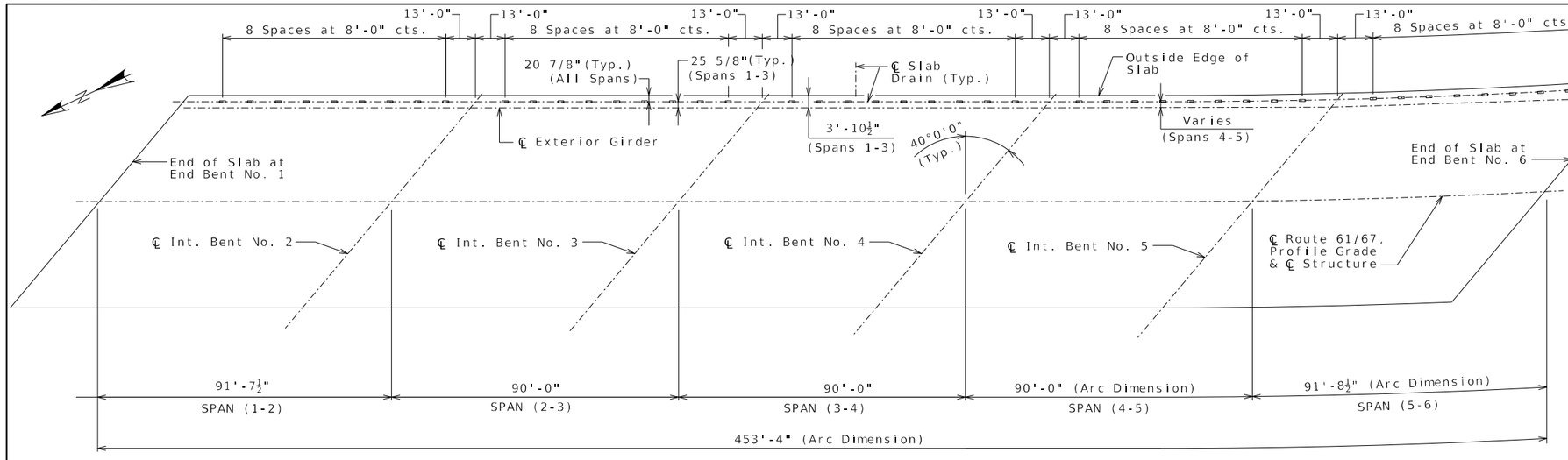
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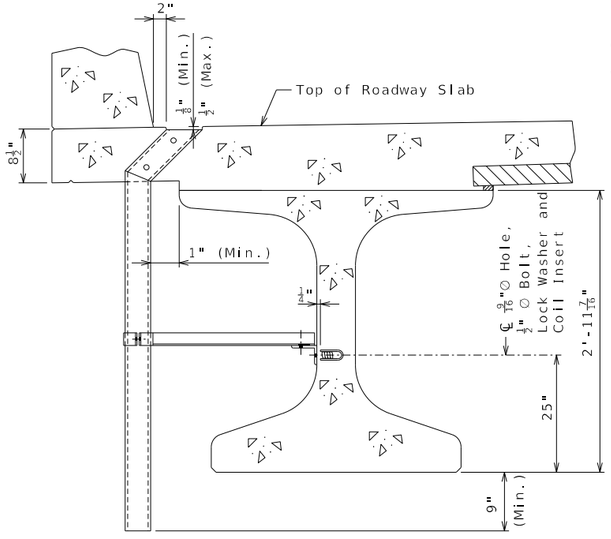
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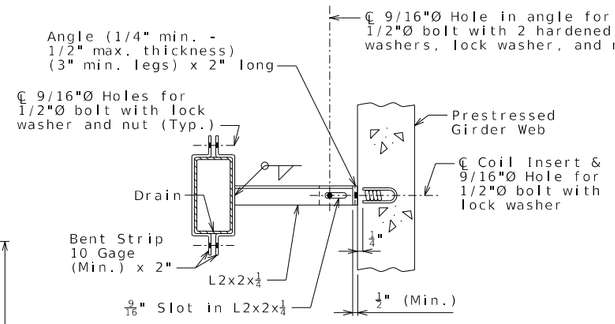


PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS

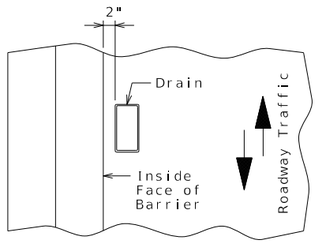
Note: Longitudinal dimensions are horizontal.



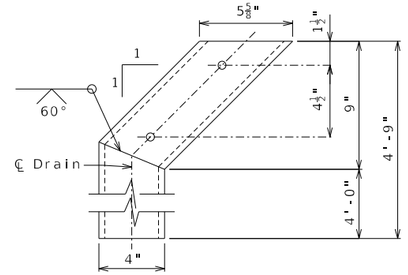
PART SECTION NEAR DRAIN



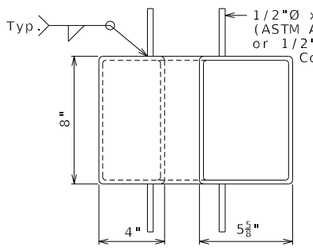
PART SECTION SHOWING BRACKET ASSEMBLY



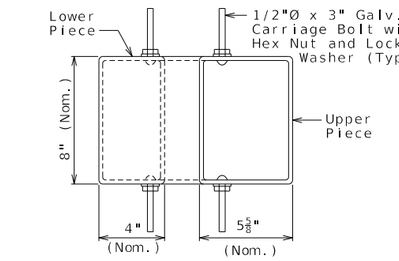
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The coil inserts and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307.

Shop drawings will not be required for the slab drains and the bracket assembly.

The coil insert required for the bracket assembly attachment shall be located on the prestressed girder shop drawings.

Coil inserts shall have a concrete pull-out strength (ultimate load) of at least 2,500 pounds in 5,000 psi concrete.

The bolt required to attach the slab drain bracket assembly to the prestressed girder web shall be supplied by the prestressed girder fabricator.

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be as recommended by the manufacturer to ensure a smooth, chip free cut.

Both upper and lower drain pieces shall be rigidly connected to each other. Drain flow shall not be obstructed. Approval of the engineer is required.

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SLAB DRAINS

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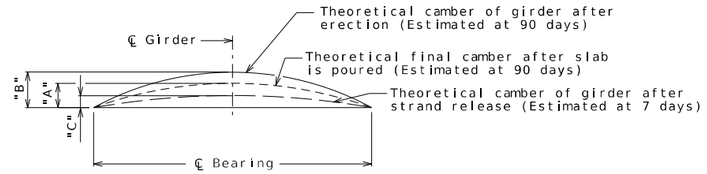
Note: This drawing is not to scale. Follow dimensions.

	Span (1-2)			Span (2-3)			Span (3-4)			Span (4-5)			Span (5-6)		
	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"	"A"	"B"	"C"
Ext. Girders	1 5/8"	3 7/8"	2 1/8"	1 5/8"	3 7/8"	2 1/8"	1 5/8"	3 7/8"	2 1/8"	1 5/8"	3 7/8"	2 1/8"	1 5/8"	3 7/8"	2 1/8"
Int. Girders	1 1/2"			1 1/2"			1 1/2"			1 1/2"			1 1/2"		

GIRDER CAMBER DIAGRAM

Conversion factor for girder camber (estimated at 90 days)

0.1 pt. = 0.314 x 0.5 pt.
0.2 pt. = 0.593 x 0.5 pt.
0.3 pt. = 0.813 x 0.5 pt.
0.4 pt. = 0.952 x 0.5 pt.

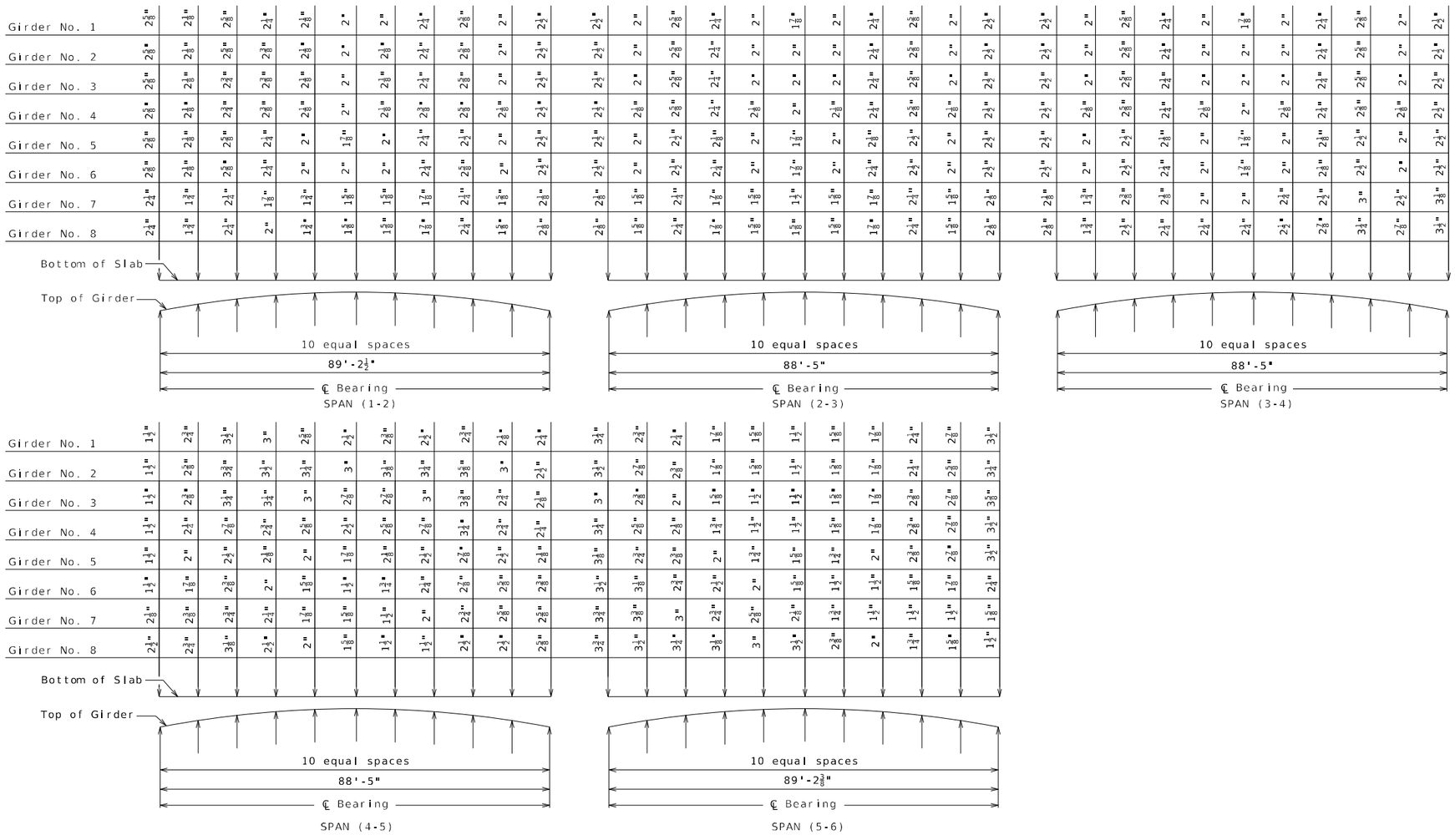


Notes:

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Concrete NU-Girder.

If girder camber is different from that shown in the camber diagram, adjustment of the slabchaunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required forcvariation in haunching, slab thickness or grade adjustment.

Longitudinal dimensions are horizontal.



THEORETICAL SLAB HAUNCHING DIAGRAM

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Note: This drawing is not to scale. Follow dimensions.

SLAB HAUNCH, DEFLECTION & CAMBER

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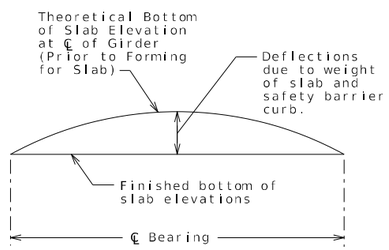
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Theoretical Bottom of Slab Elevations at ℄ of Girder (Prior to Forming for Slab) **

	℄ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ brg.
	Span (1-2) (89'-2½" ℄ brg. - ℄ brg.)										
Girder No. 1	410.18	410.24	410.30	410.34	410.37	410.38	410.37	410.34	410.30	410.24	410.18
Girder No. 2	410.35	410.41	410.47	410.51	410.54	410.55	410.54	410.51	410.47	410.41	410.35
Girder No. 3	410.52	410.58	410.64	410.68	410.71	410.72	410.71	410.68	410.63	410.58	410.52
Girder No. 4	410.69	410.75	410.80	410.85	410.87	410.88	410.87	410.85	410.80	410.75	410.69
Girder No. 5	410.86	410.92	410.97	411.02	411.04	411.05	411.04	411.01	410.97	410.92	410.86
Girder No. 6	411.02	411.09	411.14	411.18	411.21	411.22	411.21	411.18	411.14	411.08	411.02
Girder No. 7	411.19	411.25	411.31	411.35	411.38	411.39	411.38	411.35	411.31	411.25	411.19
Girder No. 8	411.36	411.42	411.48	411.52	411.55	411.56	411.55	411.52	411.48	411.42	411.36
	Span (2-3) (88'-5" ℄ brg. - ℄ brg.)										
	℄ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ brg.
Girder No. 1	410.18	410.24	410.30	410.34	410.37	410.38	410.37	410.34	410.30	410.24	410.18
Girder No. 2	410.35	410.41	410.46	410.51	410.53	410.54	410.54	410.51	410.47	410.41	410.35
Girder No. 3	410.52	410.58	410.63	410.68	410.70	410.71	410.70	410.68	410.63	410.58	410.52
Girder No. 4	410.69	410.75	410.80	410.84	410.87	410.88	410.87	410.84	410.80	410.75	410.69
Girder No. 5	410.86	410.92	410.97	411.01	411.04	411.05	411.04	411.01	410.97	410.92	410.86
Girder No. 6	411.02	411.08	411.14	411.18	411.21	411.22	411.21	411.18	411.14	411.08	411.02
Girder No. 7	411.19	411.25	411.31	411.35	411.38	411.39	411.38	411.35	411.31	411.25	411.19
Girder No. 8	411.36	411.42	411.47	411.52	411.54	411.55	411.55	411.52	411.48	411.42	411.36
	Span (3-4) (88'-5" ℄ brg. - ℄ brg.)										
	℄ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ brg.
Girder No. 1	410.18	410.24	410.30	410.34	410.37	410.38	410.37	410.34	410.30	410.24	410.18
Girder No. 2	410.35	410.41	410.47	410.51	410.54	410.55	410.54	410.51	410.47	410.41	410.35
Girder No. 3	410.52	410.58	410.63	410.68	410.70	410.71	410.70	410.68	410.63	410.58	410.52
Girder No. 4	410.69	410.75	410.80	410.85	410.87	410.88	410.87	410.85	410.80	410.75	410.69
Girder No. 5	410.86	410.92	410.97	411.01	411.04	411.05	411.04	411.01	410.97	410.92	410.86
Girder No. 6	411.02	411.09	411.14	411.18	411.21	411.22	411.21	411.18	411.14	411.09	411.02
Girder No. 7	411.19	411.25	411.31	411.35	411.38	411.39	411.38	411.35	411.31	411.25	411.19
Girder No. 8	411.36	411.42	411.48	411.52	411.55	411.56	411.55	411.52	411.48	411.42	411.36
	Span (4-5) (88'-5" ℄ brg. - ℄ brg.)										
	℄ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ brg.
Girder No. 1	410.18	410.24	410.25	410.22	410.17	410.10	410.02	409.92	409.81	409.68	409.61
Girder No. 2	410.35	410.41	410.46	410.46	410.44	410.39	410.33	410.25	410.16	410.05	409.94
Girder No. 3	410.52	410.58	410.63	410.67	410.67	410.65	410.60	410.54	410.47	410.38	410.29
Girder No. 4	410.69	410.75	410.80	410.84	410.87	410.87	410.84	410.81	410.75	410.69	410.62
Girder No. 5	410.86	410.92	410.97	411.01	411.04	411.05	411.05	411.03	411.00	410.96	410.91
Girder No. 6	411.02	411.08	411.14	411.18	411.21	411.22	411.22	411.23	411.22	411.19	411.17
Girder No. 7	411.19	411.25	411.31	411.35	411.38	411.38	411.37	411.39	411.40	411.40	411.39
Girder No. 8	411.36	411.42	411.47	411.52	411.54	411.55	411.54	411.52	411.55	411.57	411.58
	Span (5-6) (89'-2⅜" ℄ brg. - ℄ brg.)										
	℄ brg.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ brg.
Girder No. 1	409.61	409.67	409.72	409.77	409.80	409.81	409.80	409.78	409.75	409.70	409.66
Girder No. 2	409.94	410.00	410.05	410.09	410.12	410.13	410.13	410.11	410.07	410.02	409.97
Girder No. 3	410.28	410.33	410.38	410.42	410.45	410.46	410.45	410.43	410.39	410.34	410.29
Girder No. 4	410.62	410.66	410.71	410.75	410.78	410.79	410.78	410.75	410.71	410.66	410.61
Girder No. 5	410.91	410.98	411.04	411.08	411.10	411.11	411.10	411.08	411.04	410.99	410.93
Girder No. 6	411.17	411.26	411.34	411.41	411.43	411.44	411.43	411.40	411.36	411.31	411.25
Girder No. 7	411.40	411.50	411.60	411.69	411.76	411.77	411.76	411.73	411.69	411.64	411.58
Girder No. 8	411.59	411.72	411.84	411.95	412.04	412.14	412.09	412.06	412.02	411.96	411.90

** Elevations are based on a constant slab thickness of 8½" and include allowance for theoretical dead load deflections due to weight of slab (including precast panel) and barrier curb.



TYPICAL SLAB ELEVATIONS DIAGRAM

	Sequence of Pours									Min. Rate of Pour Cu. Yds./Hr.
	Direction									With Retarder
Basic Sequence	1	2	3	4	5	6	7	8	9	25
	Either Direction									
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.										
Alternate A Pours	1		9 + 2		8 + 3		7 + 4		6 + 5	27
	End to 9		1 to 8		2 to 7		3 to 6		4 to End	
Alternate B Pours	1 + 9 + 2			8 + 3			7 + 4 + 6 + 5			48
	End to 8			2 to 7			3 to End			
Alternate C Pours	1 + 9 + 2 + 8 + 3					7 + 4 + 6 + 5				56
	End to 7					3 to End				
Alternate D Pours	1 + 9 + 2 + 8 + 3 + 7 + 4 + 6 + 5									105
	End to End									

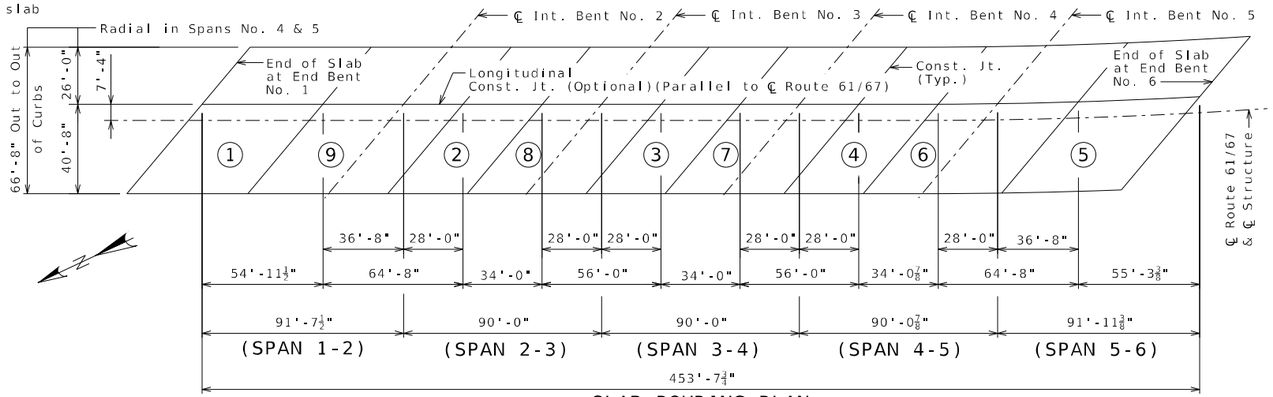
Notes:

The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours and shall pour and satisfactorily finish the slab pours at the rate given.

The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

The longitudinal construction joint may be omitted with the approval of the engineer. When the longitudinal construction joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.64.

SLAB POURING SEQUENCE



SLAB POURING PLAN

Note: Longitudinal dimensions are along the construction joint. Dimensions at Spans No. 4 & 5 are arc dimensions.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 30 of 53

SLAB POUR SEQUENCE & BOTTOM OF SLAB ELEVATIONS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 30
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

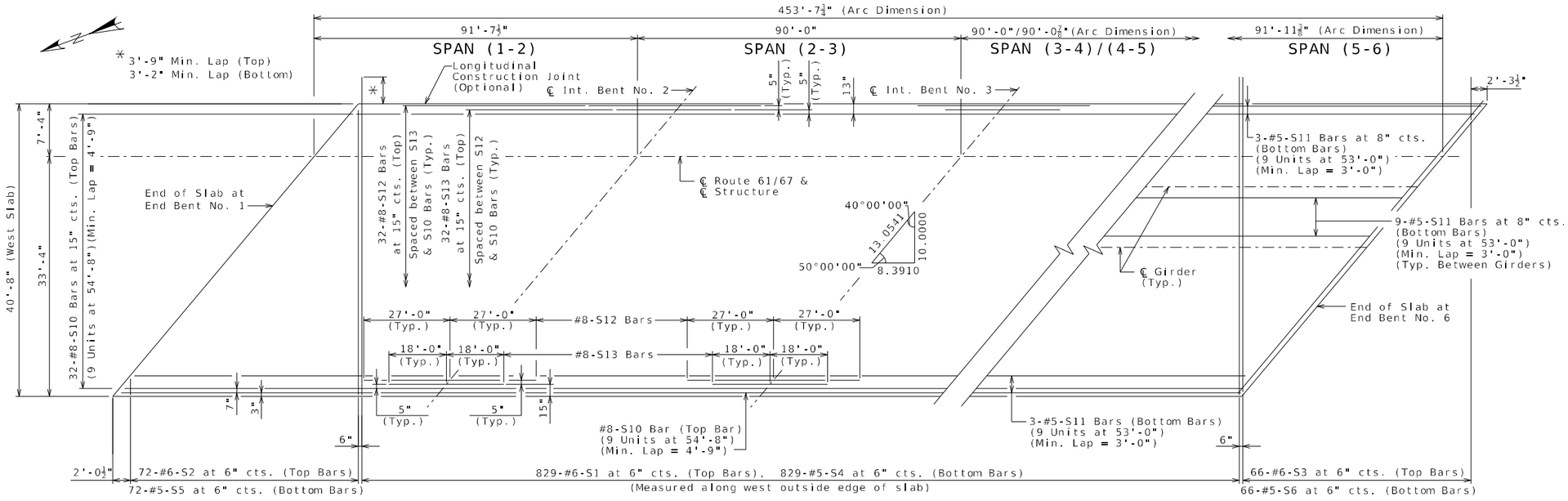
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Professional Engineer
PE-2004040784



PART PLAN OF SLAB SHOWING REINFORCEMENT (WEST SLAB)

Notes:

Longitudinal slab dimensions are measured horizontally along ℄ Route 61/67.

For details of Slab Plan (East Slab), see Sheet No. 32.

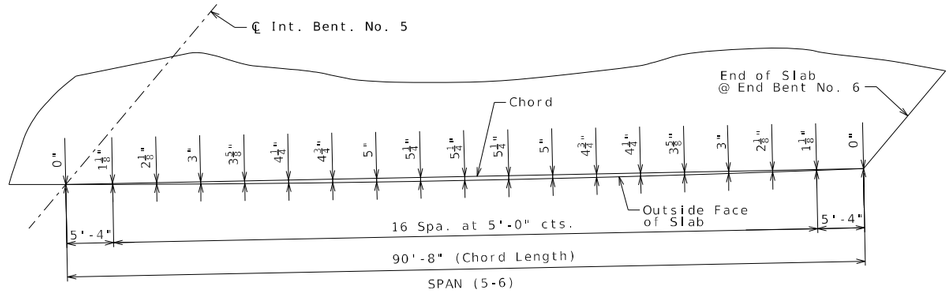
For details and locations of Slab Drains, see Sheet No. 28.

For Theoretical Slab Haunching Diagram, Dead Load Deflection and Camber, see Sheet No. 29.

For Slab Pouring Sequence and Theoretical Bottom of Slab Elevations, see Sheet No. 30.

For Section thru Slab, see Sheet No. 33.

For details of reinforcement of the Safety Barrier Curb, see Sheets No. 34 & 35.



PART PLAN OF SLAB SHOWING SLAB CURVE ORDINATES

Notes: All dimensions are horizontal.
All bents are parallel.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

SLAB PLAN - WEST SLAB

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DISTRICT BR
SHEET NO. 31
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

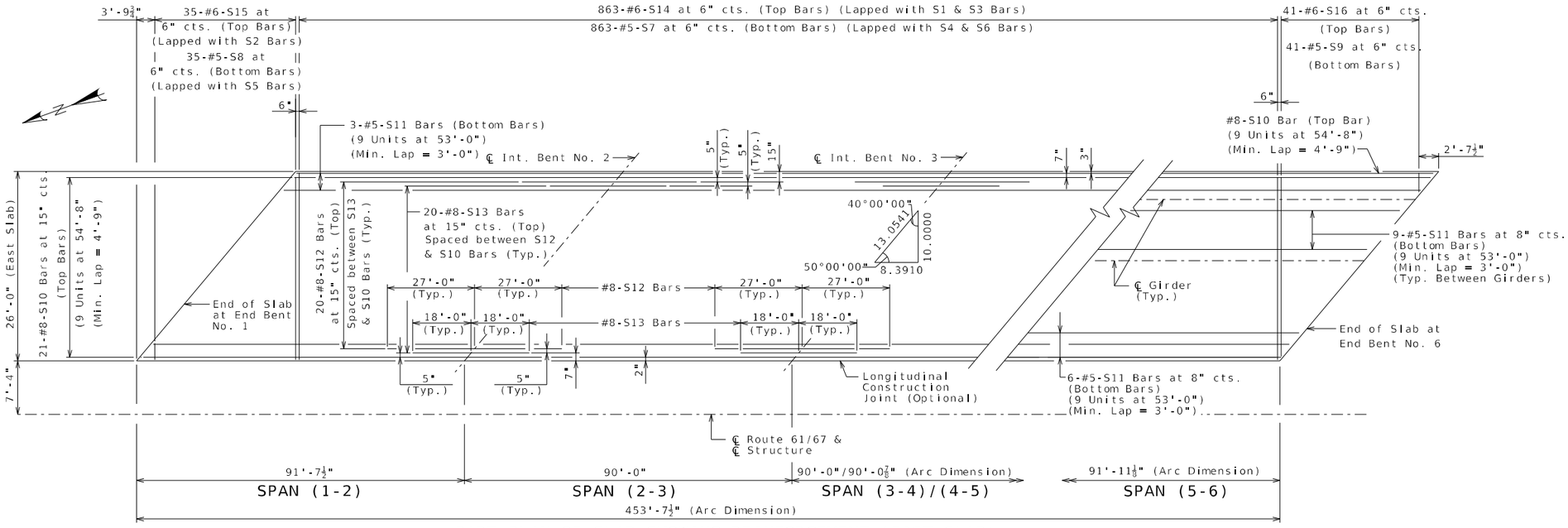
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Professional Engineer
PE-2004040784



PART PLAN OF SLAB SHOWING REINFORCEMENT (EAST SLAB)

Notes:

Longitudinal slab dimensions are measured horizontally along construction joint.

For details of Slab Plan (West Slab), see Sheet No. 31.

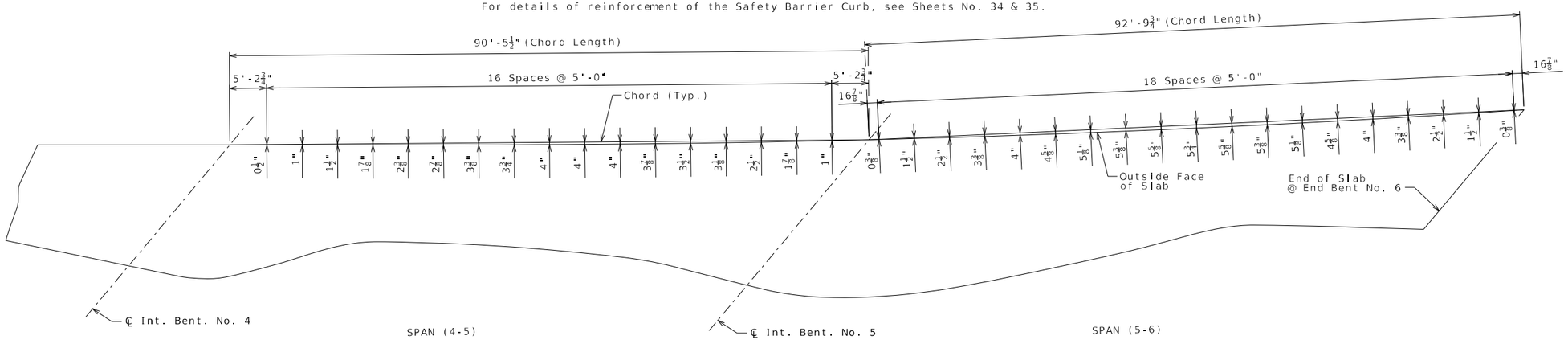
For details and locations of Slab Drains, see Sheet No. 28.

For Theoretical Slab Haunching Diagram, Dead Load Deflection and Camber, see Sheet No. 29.

For Slab Pouring Sequence and Theoretical Bottom of Slab Elevations, see Sheet No. 30.

For Section thru Slab, see Sheet No. 33.

For details of reinforcement of the Safety Barrier Curb, see Sheets No. 34 & 35.



PART PLAN OF SLAB SHOWING SLAB CURVE ORDINATES

Note: All dimensions are horizontal.
All bents are parallel.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 32 of 53

SLAB PLAN - STAGE II

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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SHEET NO. 32
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

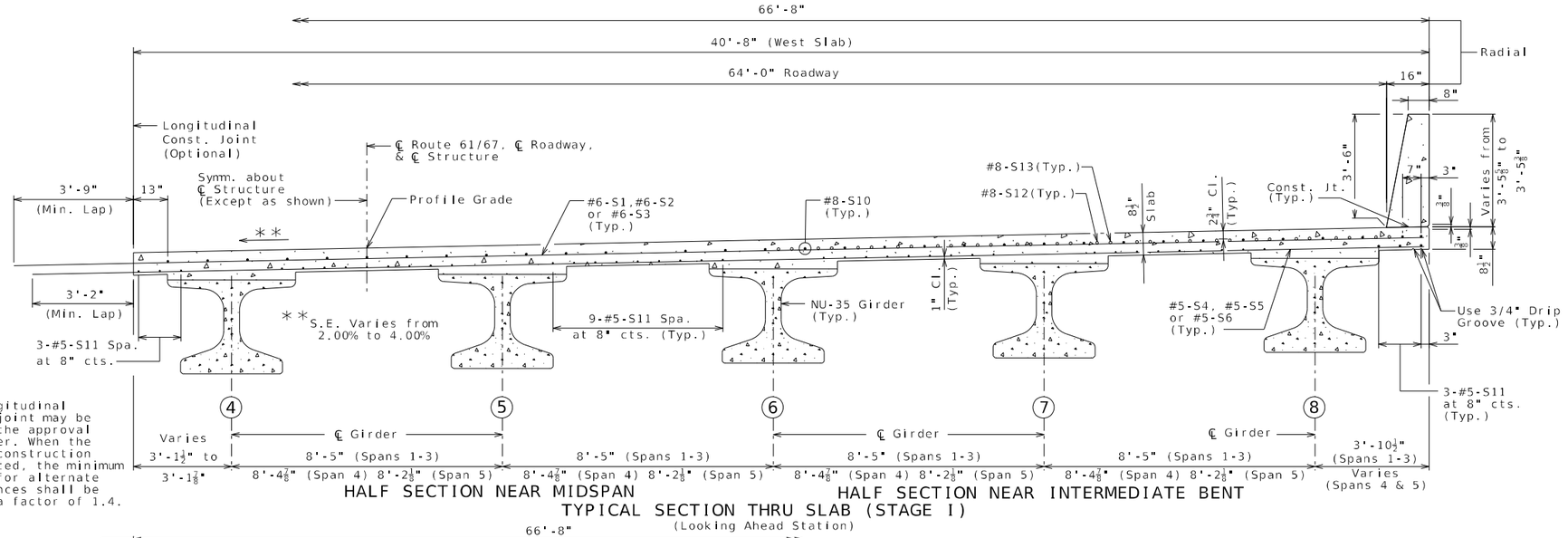
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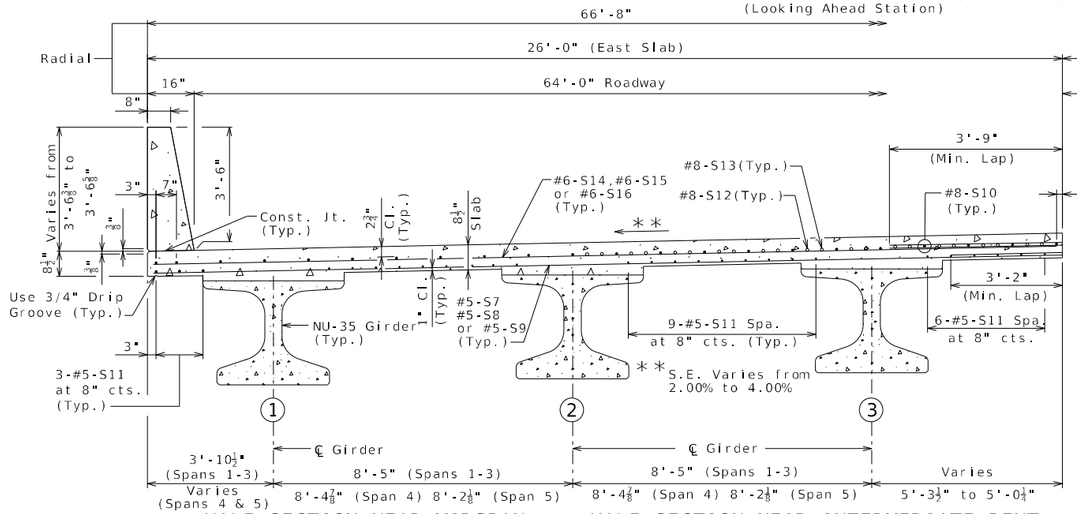
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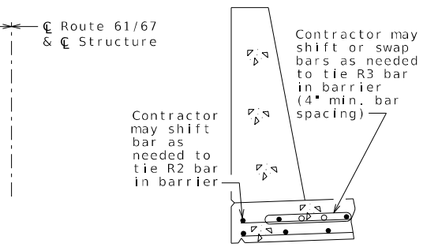
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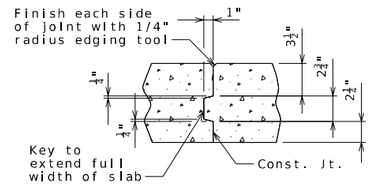
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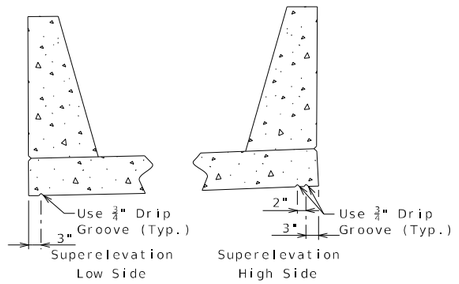
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Notes:

For the Plan of Slab Showing Reinforcement, see Sheets No. 31 & 32.

For Theoretical Bottom of Slab Elevations, see Sheet No. 30.

For details of reinforcement of the Safety Barrier Curb, see Sheets No. 34 & 35.

For Girder Camber, Theoretical Slab Haunch Details, Slab Pouring Sequence, & Dead Load Deflection, see Sheet No. 29.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

SLAB CROSS SECTION

STATE OF MISSOURI
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SHEET NO. 33
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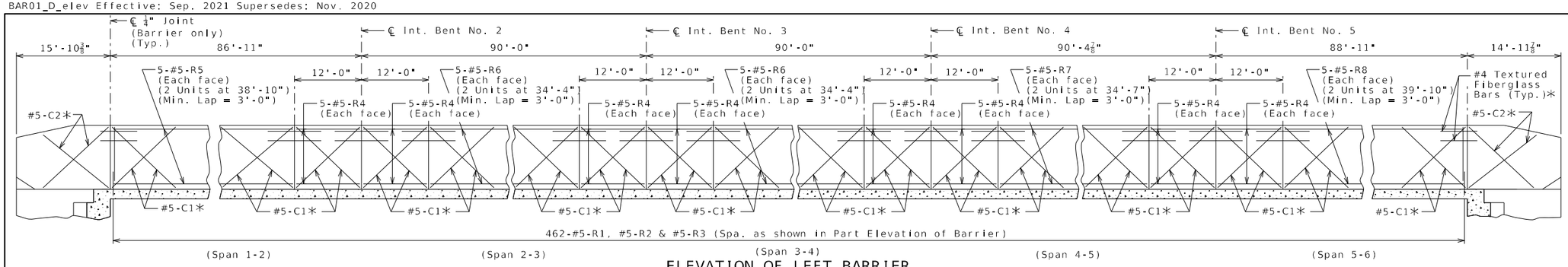
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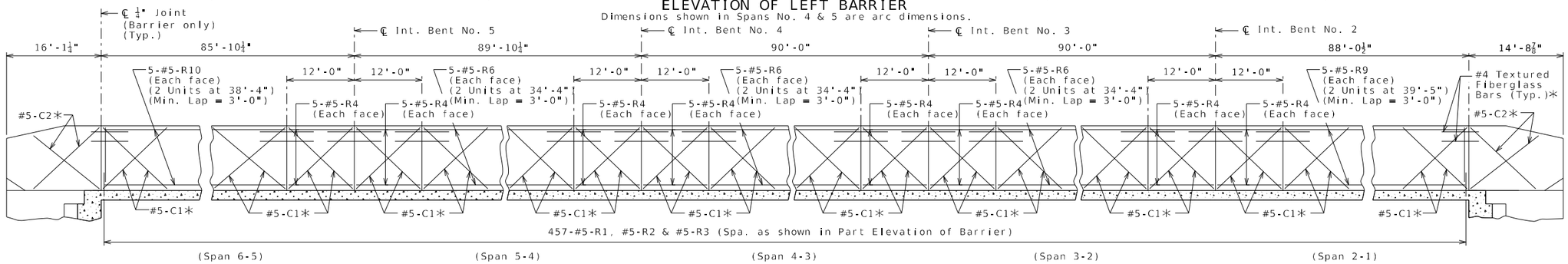
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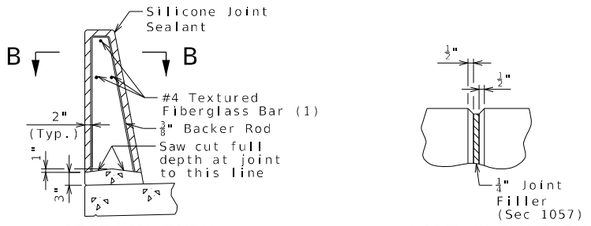
ELEVATION OF LEFT BARRIER

Dimensions shown in Spans No. 4 & 5 are arc dimensions.



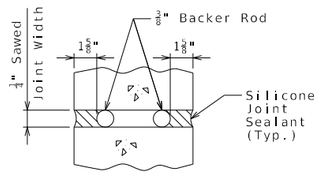
ELEVATION OF RIGHT BARRIER

Dimensions shown in Spans No. 4 & 5 are arc dimensions.

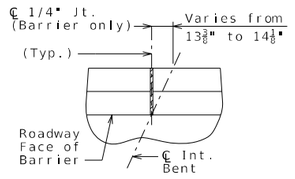


SECTION THRU SAW CUT JOINT

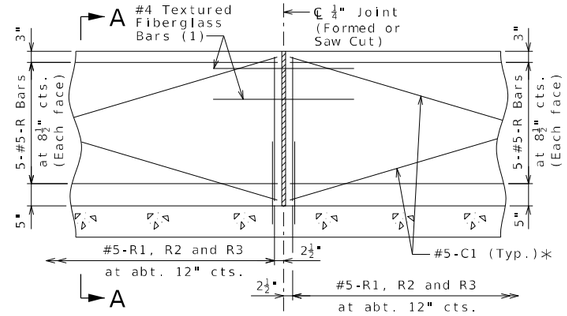
PART ELEVATION AT FORMED JOINT



SECTION B-B

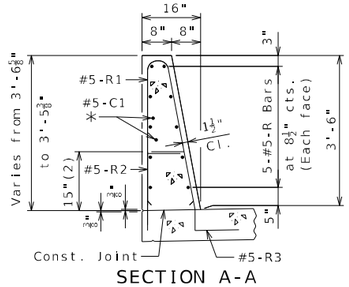


PART PLAN SHOWING JOINT LOCATION



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

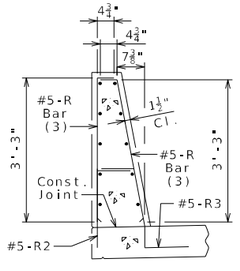


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab varies from 3.46 sq. ft. to 3.52 sq. ft.

(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

General Notes:

Longitudinal dimensions are horizontal, measured along outside top of slab.

∗ Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a ½-inch radius or a ¾-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

TYPE D BARRIER

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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DISTRICT BR
SHEET NO. 34
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

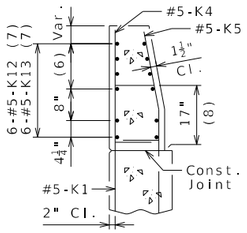
DESCRIPTION	DATE

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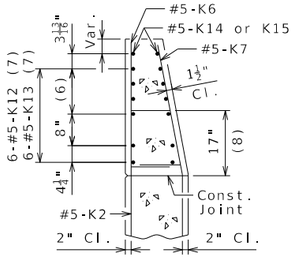
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JEFFERSON CITY, MO 65102
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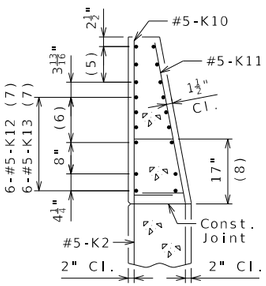
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PE-2004040784



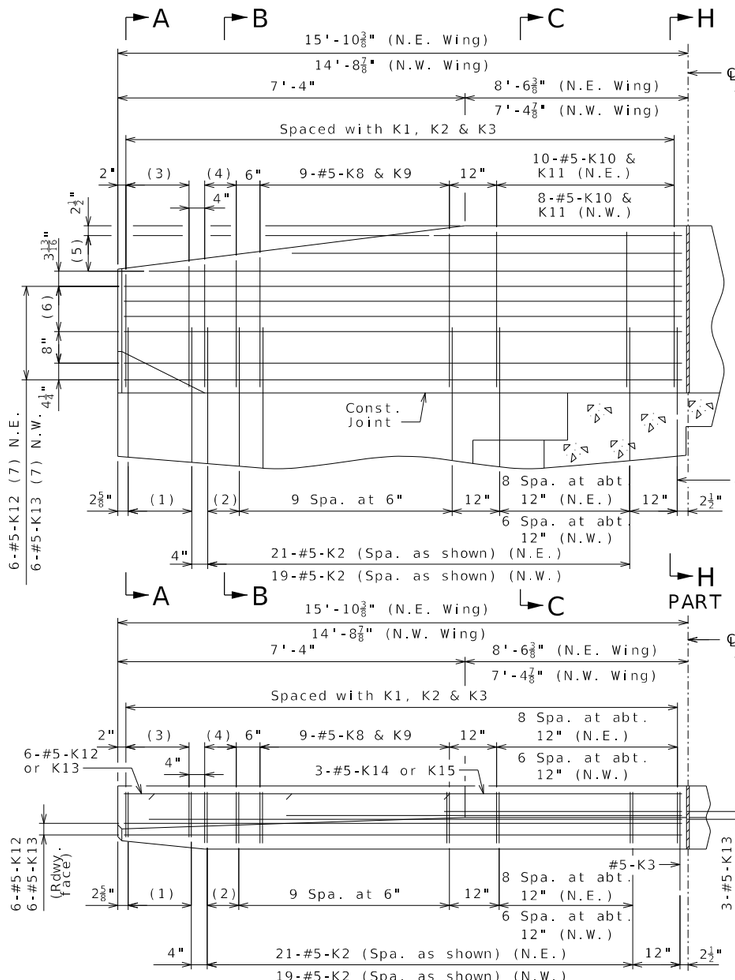
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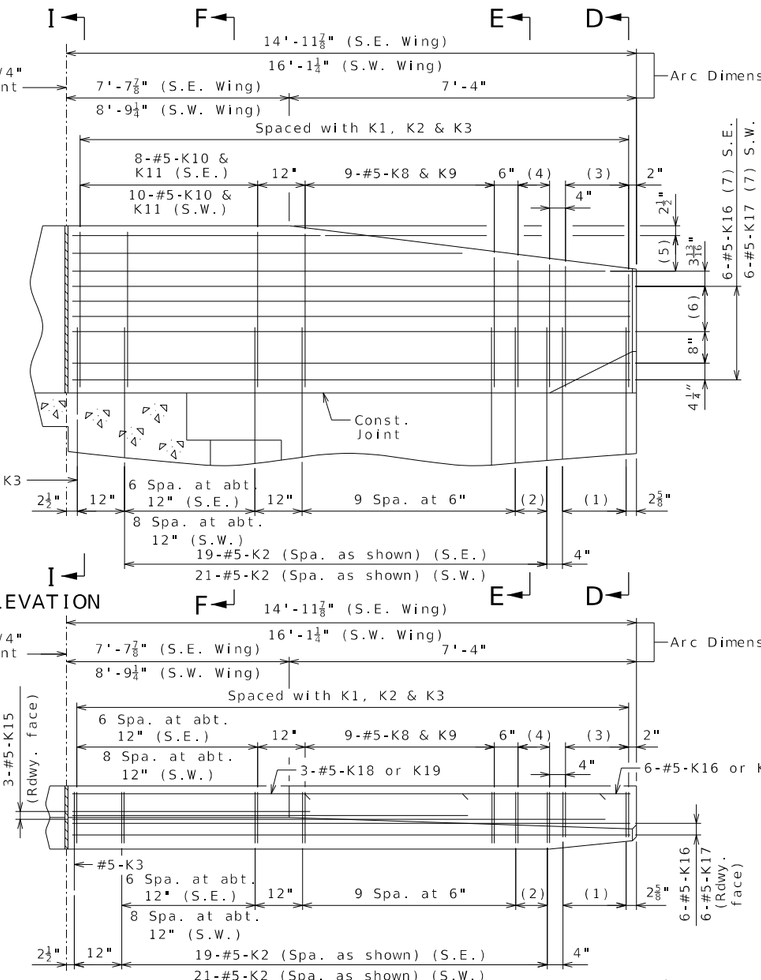


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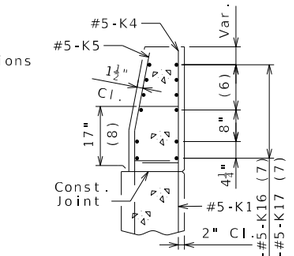


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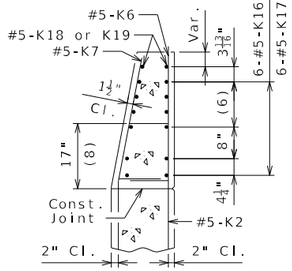




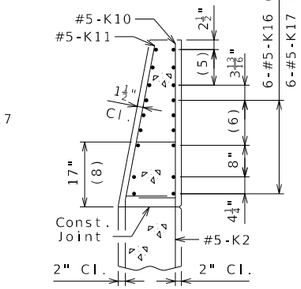
PART ELEVATION



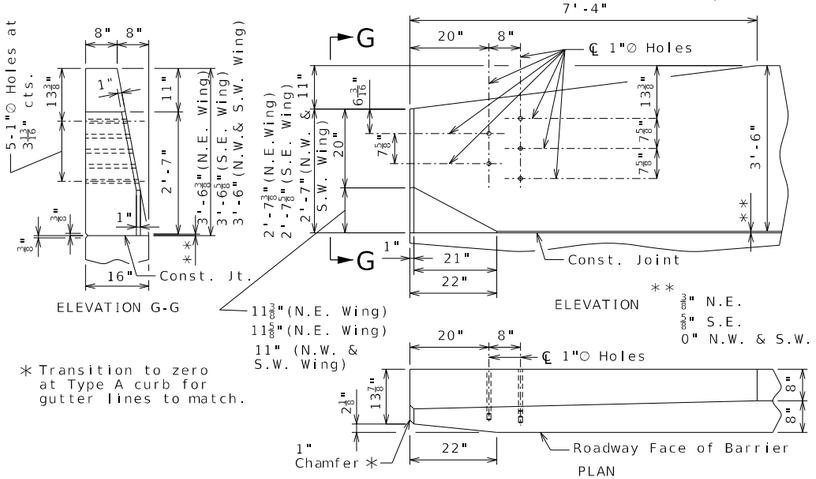
SECTION D-D



SECTION E-E

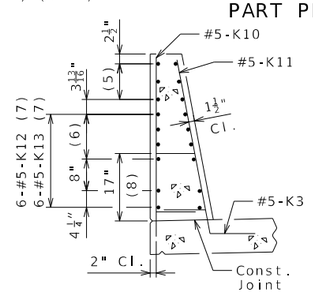


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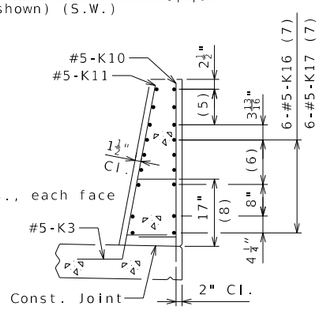
∗ Transition to zero at Type A curb for gutter lines to match.

DETAILS OF GUARD RAIL ATTACHMENT

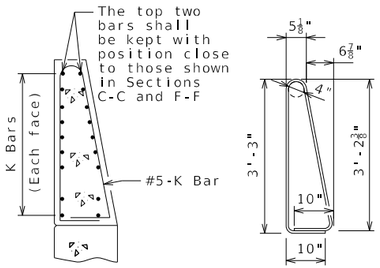


SECTION H-H

(1) 5-#5-K1 at 4" cts.
(2) 2 spaces at 4"
(3) 5-#5-K4 & K5
(4) 3-#5-K6 & K7
(5) 3-#5-K14/K15/K18/K19 at 4½" cts., each face
(6) 3 spaces at 3 13/16"
(7) Spaced as shown, each face
(8) To top of bar



SECTION I-I



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1½" except as shown for bars embedded into end bent.

Designed:	BWC	11/08/24
Detailed:	BWC	11/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

TYPE D BARRIER AT END BENTS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

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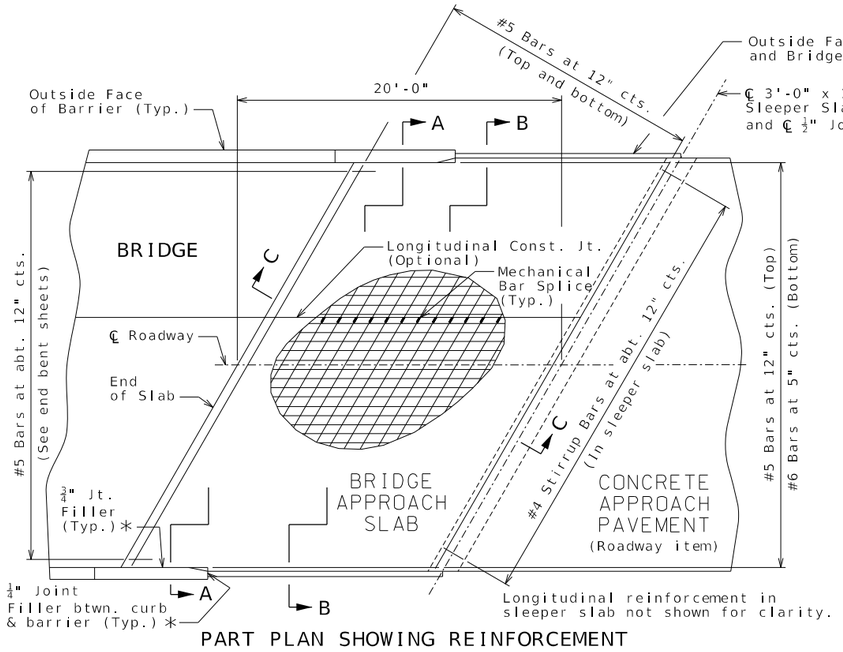
DATE PREPARED: 03/31/25
ROUTE: 61/67
STATE: MO
DISTRICT: BR
SHEET NO.: 35
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

DESCRIPTION | DATE

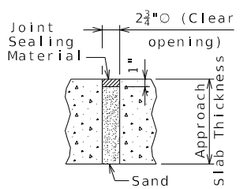
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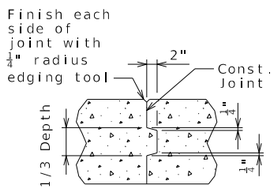
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Hanson Professional Services Inc.
600 Washington Ave., Suite 950
St. Louis, Missouri 63101
Professional Engineering 001632
www.hansoninc.com Howard N. Gotschall II Professional Engineer PE-2004000786
314.770.0467



PART PLAN SHOWING REINFORCEMENT



UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1½", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 42 splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

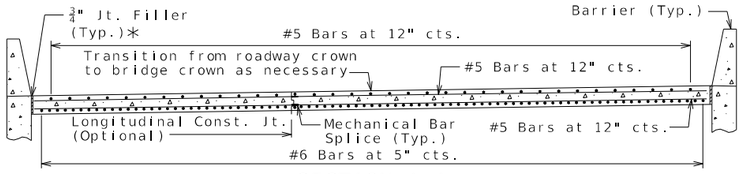
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

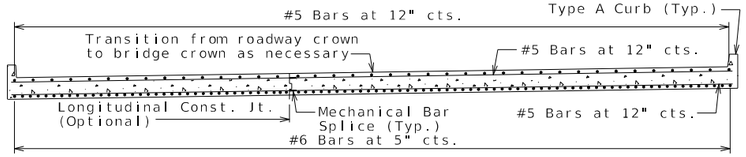
See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

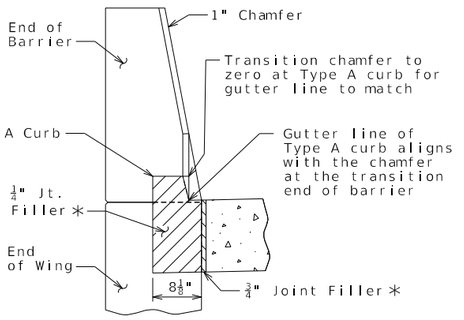
*Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



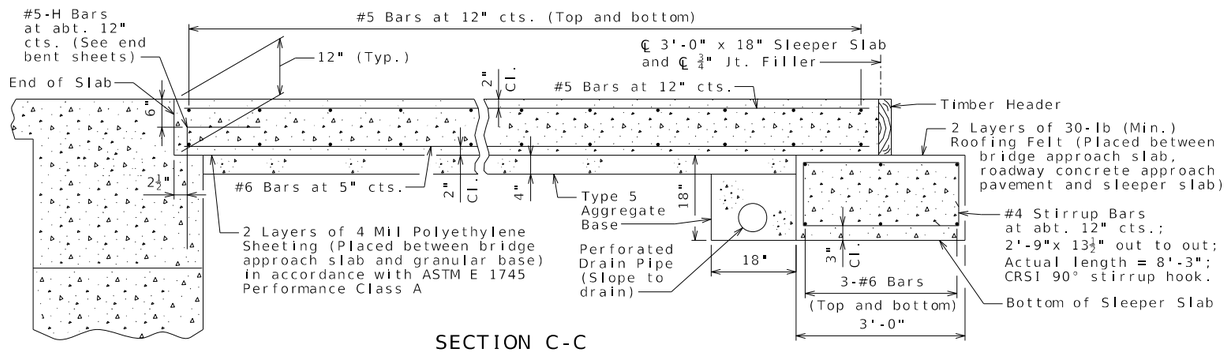
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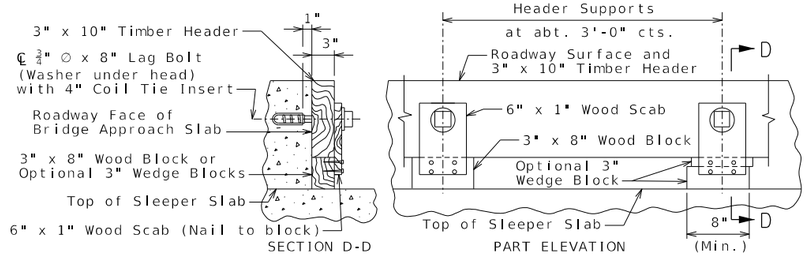
SECTION B-B



SECTION BETWEEN CURB AND BARRIER



SECTION C-C



DETAILS OF TIMBER HEADER
Remove timber header when concrete pavement is placed.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 36 of 53

BRIDGE APPROACH SLAB (MAJOR)

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
BR	36

COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A8737

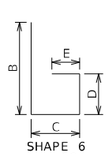
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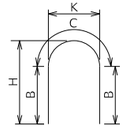
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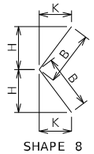
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PE-2004000786
314.770.0467



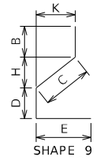
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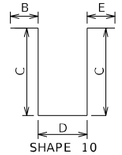
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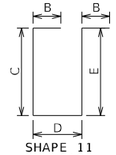
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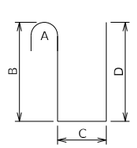
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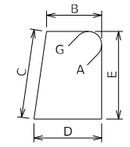
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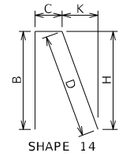
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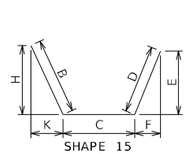
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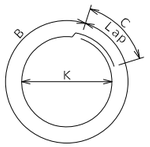
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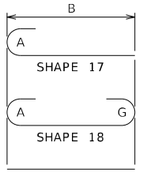
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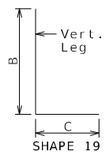
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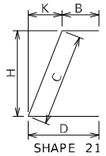
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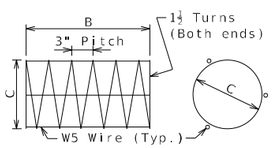
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SHAPE 18
SHAPE 20



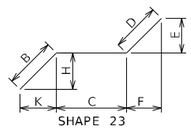
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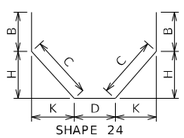
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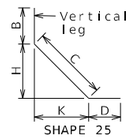
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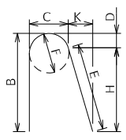
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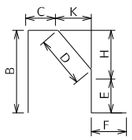
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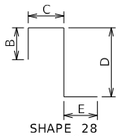
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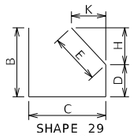
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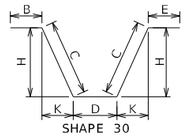
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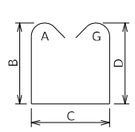
SHAPE 28
or 28S



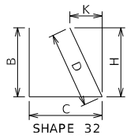
SHAPE 29
or 29S



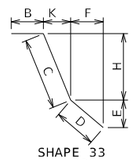
SHAPE 30
or 30S



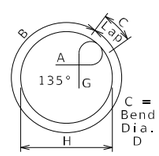
SHAPE 31S



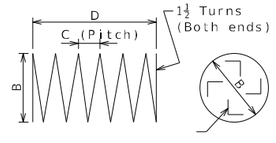
SHAPE 32
or 32S



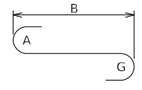
SHAPE 33
or 33S



SHAPE 34S



SHAPE 35 (1)

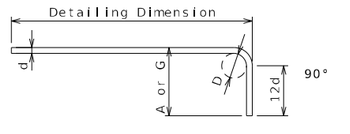


SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3⅜"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15⅓"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18⅓"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¼"	28½"

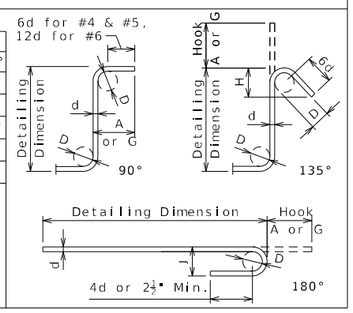


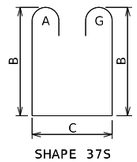
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅞"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5⅜"	5⅜"	5⅜"	3⅝"	3¾"
	3	3¾"	6¼"	6¼"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

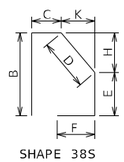
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.





SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

Unless otherwise noted, finished bending diameter D is the same for all bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

Reinforcing Steel Totals (Pounds)

	Size	Substructure		Superstructure				Entire Bridge	
				Slab			Slip		
		Plain	Epoxy	Plain	Epoxy	Barrier	Form	Plain	Epoxy
By Size	W5	0	0	0	0	0	0	0	0
	4	21870	0	0	3235	0	0	21870	3235
	5	0	0	0	104041	24205	832	0	129078
	6	25279	0	0	113468	0	0	25279	113468
	7	0	0	0	2483	0	0	0	2483
	8	0	0	0	123422	0	0	0	123422
	9	15504	0	0	0	0	0	15504	0
	10	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0
	14	0	0	0	0	0	0	0	0
	18	0	0	0	0	0	0	0	0
By Type		62653	0	0	346649	24205	832	62653	371686

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 37
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Substructure													
		Int Bent 2													
28	6 D200	BEAM		20		2 6.000							2 6	2 6	105
24	9 H200	BEAM		17		46 2.000							47 6	47 6	3876
12	6 H201	BEAM		20		45 4.000							45 4	45 4	817
12	6 H202	BEAM		20		25 7.000							25 7	25 7	461
6	6 H203	BEAM		20		20 2.000							20 2	20 2	182
11	6 H204	BEAM		10S		———	22.000	4 7.500	———				8 4	8 0	132
28	6 H205	BEAM		18		3 6.000							4 11	4 11	207
60	4 H206	WEB WALL		20		43 8.000							43 8	43 8	1750
4	4 H207	WEB WALL		17		43 8.000							44 2	44 2	118
32	4 P200	WEB WALL		7S		2 5.000	4 1.500				3 8.750	2 7.500	9 0	9 0	192
180	4 P201	BEAM		34S		4 11.750	2.000				19.000		5 11	5 10	701
14	6 U200	BEAM		13S		4 9.000	3 9.000	4 9.000	3 9.000				18 4	17 10	375
14	6 U201	BEAM		13S		4 9.000	4 0.875	4 9.000	4 0.875				18 11	18 5	387
16	6 U202	BEAM		13S		4 9.000	4 5.000	4 9.000	4 5.000				19 8	19 2	461
13	6 U203	BEAM		13S		4 9.000	4 9.375	4 9.000	4 9.375				20 4	19 10	387
8	6 U204	BEAM		10S		———	3 9.000	4 9.000	———				12 3	11 11	143
8	6 U205	BEAM		10S		———	4 0.875	4 9.000	———				12 11	12 7	151
6	6 U206	BEAM		10S		———	4 5.000	4 9.000	———				13 7	13 3	119
8	6 U207	BEAM		10S		———	4 9.375	4 9.000	———				14 4	14 0	168
32	4 U208	BEAM		10S		———	12.000	4 9.000	———				6 9	6 7	141
112	4 U209	WEB WALL		19S		15 8.625	2 7.000						18 4	18 3	1365
66	4 V200	WEB WALL		20		15 8.625							15 9	15 9	694
180	6 V201	BEAM		17		7 3.000							7 11	7 11	2140
		Int Bent 3													
28	6 D300	BEAM		20		2 6.000							2 6	2 6	105
24	9 H300	BEAM		17		46 2.000							47 6	47 6	3876
12	6 H301	BEAM		20		45 4.000							45 4	45 4	817
12	6 H302	BEAM		20		25 7.000							25 7	25 7	461
6	6 H303	BEAM		20		20 2.000							20 2	20 2	182
11	6 H304	BEAM		10S		———	22.000	4 7.500	———				8 4	8 0	132
28	6 H305	BEAM		18		3 6.000							4 11	4 11	207
72	4 H306	WEB WALL		20		43 8.000							43 8	43 8	2100
4	4 H307	WEB WALL		17		43 8.000							44 2	44 2	118
38	4 P300	WEB WALL		7S		2 5.000	4 1.500				3 8.750	2 7.500	9 0	9 0	228
180	4 P301	BEAM		34S		4 11.750	2.000				19.000		5 11	5 10	701
14	6 U300	BEAM		13S		4 9.000	3 9.000	4 9.000	3 9.000				18 4	17 10	375
14	6 U301	BEAM		13S		4 9.000	4 0.875	4 9.000	4 0.875				18 11	18 5	387
16	6 U302	BEAM		13S		4 9.000	4 5.000	4 9.000	4 5.000				19 8	19 2	461
13	6 U303	BEAM		13S		4 9.000	4 9.375	4 9.000	4 9.375				20 4	19 10	387
8	6 U304	BEAM		10S		———	3 9.000	4 9.000	———				12 3	11 11	143
8	6 U305	BEAM		10S		———	4 0.875	4 9.000	———				12 11	12 7	151
6	6 U306	BEAM		10S		———	4 5.000	4 9.000	———				13 7	13 3	119
8	6 U307	BEAM		10S		———	4 9.375	4 9.000	———				14 4	14 0	168
32	4 U308	BEAM		10S		———	12.000	4 9.000	———				6 9	6 7	141
112	4 U309	WEB WALL		19S		18 8.625	2 7.000						21 4	21 3	1590
66	4 V300	WEB WALL		20		18 8.625							18 9	18 9	827
180	6 V301	BEAM		17		7 3.000							7 11	7 11	2140

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Int Bent 4													
28	6 D400	BEAM		20		2 6.000							2 6	2 6	105
24	9 H400	BEAM		17		46 2.000							47 6	47 6	3876
12	6 H401	BEAM		20		45 4.000							45 4	45 4	817
12	6 H402	BEAM		20		25 7.000							25 7	25 7	461
6	6 H403	BEAM		20		20 2.000							20 2	20 2	182
11	6 H404	BEAM		10S		———	22.000	4 7.500	———				8 4	8 0	132
28	6 H405	BEAM		18		3 6.000							4 11	4 11	207
72	4 H406	WEB WALL		20		43 8.000							43 8	43 8	2100
4	4 H407	WEB WALL		17		43 8.000							44 2	44 2	118
38	4 P400	WEB WALL		7S		2 5.000	4 1.500				3 8.750	2 7.500	9 0	9 0	228
180	4 P401	BEAM		34S		4 11.750	2.000				19.000		5 11	5 10	701
14	6 U400	BEAM		13S		4 9.000	3 9.000	4 9.000	3 9.000				18 4	17 10	375
14	6 U401	BEAM		13S		4 9.000	4 0.875	4 9.000	4 0.875				18 11	18 5	387
16	6 U402	BEAM		13S		4 9.000	4 5.000	4 9.000	4 5.000				19 8	19 2	461
13	6 U403	BEAM		13S		4 9.000	4 8.375	4 9.000	4 8.375				20 2	19 8	384
8	6 U404	BEAM		10S		———	3 9.000	4 9.000	———				12 3	11 11	143
8	6 U405	BEAM		10S		———	4 0.875	4 9.000	———				12 11	12 7	151
6	6 U406	BEAM		10S		———	4 5.000	4 9.000	———				13 7	13 3	119
8	6 U407	BEAM		10S		———	4 8.375	4 9.000	———				14 2	13 10	166
32	4 U408	BEAM		10S		———	12.000	4 9.000	———				6 9	6 7	141
112	4 U409	WEB WALL		19S		18 8.625	2 7.000						21 4	21 3	1590
66	4 V400	WEB WALL		20		18 8.625							18 9	18 9	827
180	6 V401	BEAM		17		7 3.000							7 11	7 11	2140
		Int Bent 5													
28	6 D500	BEAM		20		2 6.000							2 6	2 6	105
24	9 H500	BEAM		17		46 2.000							47 6	47 6	3876
12	6 H501	BEAM		20		45 4.000							45 4	45 4	817
18	6 H502	BEAM		20		14 6.875							14 7	14 7	394
6	6 H503	BEAM		20		25 6.750							25 7	25 7	231
6	6 H504	BEAM		20		20 3.875							20 4	20 4	183
12	6 H505	BEAM		10S		———	22.000	4 7.500	———				8 4	8 0	144
28	6 H506	BEAM		18		3 6.000							4 11	4 11	207
68	4 H507	WEB WALL		20		43 8.000							43 8	43 8	1984
4	4 H508	WEB WALL		17		43 8.000							44 2	44 2	118
36	4 P500	WEB WALL		7S		2 5.000	4 1.500				3 8.750	2 7.500	9 0	9 0	216
180	4 P501	BEAM		34S		4 11.750	2.000				19.000		5 11	5 10	701
8	6 U500	BEAM		13S		4 9.000	3 9.000	4 9.000	3 9.000				18 4	17 10	214
7	6 U501	BEAM		13S		4 9.000	4 0.750	4 9.000	4 0.750				18 11	18 5	194
7	6 U502	BEAM		13S		4 9.000	4 5.250	4 9.000	4 5.250				19 8	19 2	202
7	6 U503	BEAM		13S		4 9.000	4 9.125	4 9.000	4 9.125				20 4	19 10	209
16	6 U504	BEAM		13S		4 9.000	5 0.750	4 9.000	5 0.750				20 11	20 5	491
13	6 U505	BEAM		13S		4 9.000	5 6.000	4 9.000	5 6.000				21 10	21 4	417
4	6 U506	BEAM		10S		———	3 9.000	4 9.000	———				12 3	11 11	72
4	6 U507	BEAM		10S		———	4 0.750	4 9.000	———				12 11	12 7	76
4	6 U508	BEAM		10S		———	4 5.250	4 9.000	———				13 8	13 4	80
4	6 U509	BEAM		10S		———	4 9.125	4 9.000	———				14 3	13 11	84
6	6 U510	BEAM		10S		———	5 0.750	4 9.000	———				14 11	14 7	131
8	6 U511	BEAM		10S		———	5 6.000	4 9.000	———				15 9	15 5	185
32	4 U512	BEAM		10S		———	12.000	4 9.000	———				6 9	6 7	141
112	4 U513	WEB WALL		19S		18 1.000	2 7.000						20 8	20 7	1540
66	4 V500	WEB WALL		20		18 1.000							18 1	18 1	797
180	6 V501	BEAM		17		7 3.000							7 11	7 11	2140

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

For bending diagrams and steel reinforcing totals, see Sheet No. 38.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 38
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Superstructure													
		End Bent 1													
12	6 F100	WING BRACE	E	23S		2 3.000	7 10.000	14.000	5.875	12.750	10.750	2 0.750	11 3	11 2	201
4	6 F101	DIAPHRAGM	E	21S		———	3 7.000	7 7.500			2 9.000	2 4.000	11 3	11 2	67
10	6 F102	WING BRACE	E	23S		2 3.000	3 7.000	14.000	12.875	5.625	2 0.750	10.875	7 0	6 11	104
4	6 F103	DIAPHRAGM	E	21S		5 6.000	3 7.000	———			2 9.000	2 4.000	9 1	8 11	54
38	6 H100	BEAM	E	20		45 8.000							45 8	45 8	2606
8	6 H101	BEAM	E	20		25 7.000							25 7	25 7	307
4	6 H102	BEAM	E	20		18 8.375							18 8	18 8	112
4	6 H103	DIAPHRAGM	E	20		4 5.000							4 5	4 5	27
2	6 H104	DIAPHRAGM	E	20		2 8.000							2 8	2 8	8
14	6 H105	DIAPHRAGM	E	20		9 4.000							9 4	9 4	196
7	6 H106	DIAPHRAGM	E	20		5 10.000							5 10	5 10	61
8	5 H107	STRAND TIE	E	23		15.000	3 2.375	15.000	9.625	11.500	9.625	11.500	5 8	5 7	47
44	7 H108	WING	E	17		12 8.000							13 6	13 6	1214
16	8 H109	WING	E	17		12 11.500							13 11	13 11	595
9	5 U100	BEAM	E	10S		———	5 6.875	3 11.000	———				15 1	14 10	139
10	5 U101	BEAM	E	10S		———	5 10.875	3 11.000	———				15 9	15 6	162
9	5 U102	BEAM	E	10S		———	6 3.000	3 11.000	———				16 5	16 2	152
6	5 U103	BEAM	E	10S		———	6 7.375	3 11.000	———				17 2	16 11	106
13	4 U104	BEAM	E	13S		3 11.000	2 8.000	3 11.000	2 8.000				13 11	13 8	119
9	4 U105	BEAM	E	13S		3 11.000	2 11.875	3 11.000	2 11.875				14 7	14 3	86
9	4 U106	BEAM	E	13S		3 11.000	3 4.000	3 11.000	3 4.000				15 3	15 0	90
13	4 U107	BEAM	E	13S		3 11.000	3 8.375	3 11.000	3 8.375				16 0	15 8	136
3	4 U108	BEAM	E	10S		———	2 8.000	3 11.000	———				9 3	9 1	18
6	4 U109	BEAM	E	10S		———	2 11.875	3 11.000	———				9 11	9 9	39
6	4 U110	BEAM	E	10S		———	3 4.000	3 11.000	———				10 7	10 5	42
3	4 U111	BEAM	E	10S		———	3 8.375	3 11.000	———				11 4	11 2	22
112	6 U112	DIAPHRAGM	E	19S		3 4.000	6 3.000						9 7	9 5	1584
57	5 U113	DIAPHRAGM	E	10S		———	3 5.000	3 3.000	———				10 1	9 9	580
57	6 U114	DIAPHRAGM	E	19S		2 6.000	3 11.000						6 5	6 3	535
64	5 U115	DIAPHRAGM	E	19S		2 0.000	15.000						3 3	3 2	211
16	5 V100	BEAM	E	20		5 6.875							5 7	5 7	93
8	5 V101	BEAM	E	20		5 10.750							5 11	5 11	49
10	5 V102	BEAM	E	20		6 3.000							6 3	6 3	65
12	5 V103	BEAM	E	20		6 7.375							6 7	6 7	82
56	6 V104	DIAPHRAGM	E	20		2 6.000							2 6	2 6	210
24	6 V105	WING	E	20		7 11.125							7 11	7 11	285
26	6 V106	WING	E	20		6 7.000							6 7	6 7	257

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		End Bent 6													
10	6 F600	WING BRACE	E	23S		2 3.000	8 8.000	14.000	5.875	12.750	10.750	2 0.750	12 1	12 0	180
4	6 F601	DIAPHRAGM	E	21S		———	3 7.000	10 1.000			2 7.000	2 5.750	13 8	13 7	82
13	6 F602	WING BRACE	E	23S		2 3.000	4 11.000	14.000	12.875	5.625	2 0.750	10.875	8 4	8 3	161
4	6 F603	DIAPHRAGM	E	21S		7 2.000	3 7.000	———			2 8.125	2 4.000	10 9	10 8	64
38	6 H600	BEAM	E	20		47 9.000							47 9	47 9	2725
24	6 H601	BEAM	E	20		14 7.000							14 7	14 7	526
4	6 H602	BEAM	E	20		9 7.375							9 7	9 7	58
4	6 H603	DIAPHRAGM	E	20		6 4.000							6 4	6 4	38
2	6 H604	DIAPHRAGM	E	20		4 4.000							4 4	4 4	13
14	6 H605	DIAPHRAGM	E	20		9 4.000							9 4	9 4	196
7	6 H606	DIAPHRAGM	E	20		5 8.000							5 8	5 8	60
8	5 H607	STRAND TIE	E	23		15.000	3 2.375	15.000	9.625	11.500	9.625	11.500	5 8	5 7	47
46	7 H608	WING	E	17		12 8.000							13 6	13 6	1269
16	8 H609	WING	E	17		12 11.500							13 11	13 11	595
6	5 U600	BEAM	E	10S		———	5 5.000	4 0.000	———				14 10	14 7	91
5	5 U601	BEAM	E	10S		———	5 9.000	4 0.000	———				15 6	15 3	80
3	5 U602	BEAM	E	10S		———	6 0.500	4 0.000	———				16 1	15 10	50
3	5 U603	BEAM	E	10S		———	6 4.500	4 0.000	———				16 9	16 6	52
4	5 U604	BEAM	E	10S		———	6 8.250	4 0.000	———				17 5	17 2	72
4	5 U605	BEAM	E	10S		———	7 1.375	4 0.000	———				18 3	18 0	75
3	5 U606	BEAM	E	10S		———	7 5.750	4 0.000	———				19 0	18 9	59
4	5 U607	BEAM	E	10S		———	7 9.875	4 0.000	———				19 8	19 5	81
5	4 U608	BEAM	E	13S		4 0.000	2 8.000	4 0.000	2 8.000				14 1	13 9	46
7	4 U609	BEAM	E	13S		4 0.000	3 0.000	4 0.000	3 0.000				14 9	14 5	67
8	4 U610	BEAM	E	13S		4 0.000	3 3.500	4 0.000	3 3.500				15 4	15 0	80
6	4 U611	BEAM	E	13S		4 0.000	3 7.500	4 0.000	3 7.500				16 0	15 8	63
6	4 U612	BEAM	E	13S		4 0.000	3 11.250	4 0.000	3 11.250				16 8	16 4	65
7	4 U613	BEAM	E	13S		4 0.000	4 4.375	4 0.000	4 4.375				17 6	17 2	80
8	4 U614	BEAM	E	13S		4 0.000	4 8.750	4 0.000	4 8.750				18 3	17 11	96
5	4 U615	BEAM	E	13S		4 0.000	5 0.875	4 0.000	5 0.875				18 11	18 7	62
5	4 U616	BEAM	E	10S		———	2 8.000	4 0.000	———				9 4	9 2	31
3	4 U617	BEAM	E	10S		———	3 0.000	4 0.000	———				10 0	9 10	20
2	4 U618	BEAM	E	10S		———	3 3.500	4 0.000	———				10 7	10 5	14
4	4 U619	BEAM	E	10S		———	3 7.500	4 0.000	———				11 3	11 1	30
4	4 U620	BEAM	E	10S		———	3 11.250	4 0.000	———				11 11	11 9	31
3	4 U621	BEAM	E	10S		———	4 4.375	4 0.000	———				12 9	12 7	25
2	4 U622	BEAM	E	10S		———	4 8.750	4 0.000	———				13 6	13 4	18
5	4 U623	BEAM	E	10S		———	5 0.875	4 0.000	———				14 2	14 0	47
117	6 U624	DIAPHRAGM	E	19S		3 4.000	6 3.000						9 7	9 5	1655
52	5 U625	DIAPHRAGM	E	10S		———	3 5.000	3 3.000	———				10 1	9 9	529
52	6 U626	DIAPHRAGM	E	19S		2 6.000	3 11.000						6 5	6 3	488
64	5 U627	DIAPHRAGM	E	19S		2 0.000	15.000						3 3	3 2	211
8	5 V600	BEAM	E	20		5 5.000							5 5	5 5	45
2	5 V601	BEAM	E	20		5 9.000							5 9	5 9	12
6	5 V602	BEAM	E	20		6 0.500							6 1	6 1	38
6	5 V603	BEAM	E	20		6 4.500							6 5	6 5	40
4	5 V604	BEAM	E	20		6 8.250							6 8	6 8	28
4	5 V605	BEAM	E	20		7 1.375							7 1	7 1	30
6	5 V606	BEAM	E	20		7 5.750							7 6	7 6	47
4	5 V607	BEAM	E	20		7 9.875							7 10	7 10	33
56	6 V608	DIAPHRAGM	E	20		2 6.000							2 6	2 6	210
24	6 V609	WING	E	20		6 6.375							6 6	6 6	234
26	6 V610	WING	E	20		9 1.625							9 2	9 2	358

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 38.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 39
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Int Diaphragms													
56	6 H700	DIAPHRAGM	E	20		6 3.000							6 3	6 3	526
56	6 H701	DIAPHRAGM	E	20		9 6.000							9 6	9 6	799
112	4 H702	DIAPHRAGM	E	20		9 6.000							9 6	9 6	711
16	5 H703	DIAPHRAGM	E	23		———	3 6.000	15.000	10.000	11.125	———	———	4 9	4 8	78
48	5 H704	DIAPHRAGM	E	23		15.000	3 3.000	15.000	10.000	11.125	10.000	11.125	5 9	5 7	280
224	4 U700	DIAPHRAGM	E	28S		———	18.000	3 7.000	3 1.000				8 2	8 0	1197
112	6 U701	DIAPHRAGM	E	28S		———	2 2.000	3 7.000	4 2.000				9 11	9 8	1626
112	6 U702	DIAPHRAGM	E	28S		———	2 2.000	2 7.000	4 2.000				8 11	8 8	1458
32	6 U703	DIAPHRAGM	E	28S		———	2 2.000	2 7.000	21.000				6 6	6 4	304
16	5 U704	DIAPHRAGM	E	6		4 4.000	13.000	18.000	———				6 11	6 9	113
48	5 U705	DIAPHRAGM	E	6		4 7.000	13.000	18.000	———				7 2	7 0	350
32	5 V700	DIAPHRAGM	E	20		3 7.000							3 7	3 7	120
		Slab													
		(West Slab)													
829	6 S1	SLAB	E	20		44 5.000							44 5	44 5	55306
72	6 S2	SLAB	E	20	V	44 4.000							44 4	44 4	2505
		INCR.=7.000			1	2 0.000							2 0	2 0	
66	6 S3	SLAB	E	20	V	43 10.000							43 10	43 10	2503
		INCR.=6.750			1	6 7.000							6 7	6 7	
829	5 S4	SLAB	E	20		43 10.000							43 10	43 10	37900
72	5 S5	SLAB	E	20	V	43 9.000							43 9	43 9	1721
		INCR.=7.000			1	2 0.000							2 0	2 0	
66	5 S6	SLAB	E	20	V	43 3.000							43 3	43 3	1698
		INCR.=6.750			1	6 0.000							6 0	6 0	
297	8 S10	SLAB	E	20		54 8.000							54 8	54 8	43350
378	5 S11	SLAB	E	20		53 0.000							53 0	53 0	20895
128	8 S12	SLAB	E	20		54 0.000							54 0	54 0	18455
128	8 S13	SLAB	E	20		36 0.000							36 0	36 0	12303
		(East Slab)													
863	5 S7	SLAB	E	20		25 8.000							25 8	25 8	23103
35	5 S8	SLAB	E	20	V	25 0.000							25 0	25 0	526
		INCR.=7.250			1	3 9.000							3 9	3 9	
41	5 S9	SLAB	E	20	V	21 9.000							21 9	21 9	520
		INCR.=5.625			1	2 6.000							2 6	2 6	
198	8 S10	SLAB	E	20		54 8.000							54 8	54 8	28900
243	5 S11	SLAB	E	20		53 0.000							53 0	53 0	13433
80	8 S12	SLAB	E	20		54 0.000							54 0	54 0	11534
80	8 S13	SLAB	E	20		36 0.000							36 0	36 0	7690
863	6 S14	SLAB	E	20		25 8.000							25 8	25 8	33270
35	6 S15	SLAB	E	20	V	25 0.000							25 0	25 0	758
		INCR.=7.250			1	3 9.000							3 9	3 9	
41	6 S16	SLAB	E	20	V	21 9.000							21 9	21 9	749
		INCR.=5.625			1	2 6.000							2 6	2 6	

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Barrier Curb													
		Type D													
919	5 R1	BARRIER CURB	E	26S		3 3.000	5.500	2.250			3 0.750	6.750	6 11	6 10	6550
919	5 R2	BARRIER CURB	E	19S		21.500	9.500						2 7	2 6	2396
919	5 R3	BARRIER CURB	E	27S		———	9.500	15.750	5.000	12.000	15.000	3.000	3 6	3 4	3195
160	5 R4	BARRIER CURB	E	20		11 8.000							11 8	11 8	1947
20	5 R5	BARRIER CURB	E	20		38 10.000							38 10	38 10	810
100	5 R6	BARRIER CURB	E	20		34 4.000							34 4	34 4	3581
20	5 R7	BARRIER CURB	E	20		34 7.000							34 7	34 7	721
20	5 R8	BARRIER CURB	E	20		39 10.000							39 10	39 10	831
20	5 R9	BARRIER CURB	E	20		39 5.000							39 5	39 5	822
20	5 R10	BARRIER CURB	E	20		38 4.000							38 4	38 4	800
		End Barrier													
20	5 K1	END BARRIER	E	27S		3 8.500	9.250	5.375	3 3.250	———	5.250	1.000	8 3	8 0	167
80	5 K2	END BARRIER	E	27S		3 8.500	9.250	14.500	2 6.250	———	14.250	2.750	8 3	8 0	668
4	5 K3	END BARRIER	E	27S		23.000	9.250	14.500	7.750	12.000	14.250	2.750	5 7	5 4	22
20	5 K4	END BARRIER	E	19S	V	2 4.250	10.000						3 2	3 1	66
		INCR.= 0.500 (B LEG)			4	2 6.250	10.000						3 4	3 3	
20	5 K5	END BARRIER	E	38S	V	———	———	18.500	9.500	8.250	18.000	4.000	3 3	3 0	64
		INCR.= 0.500 (D LEG)			4	———	———	20.500	9.500	8.250	20.000	4.500	3 3	3 2	
12	5 K6	END BARRIER	E	19S		2 6.750	10.000						3 5	3 4	42
12	5 K7	END BARRIER	E	21S		———	2 6.625	10.000			2 6.000	6.250	3 5	3 4	42
36	5 K8	END BARRIER	E	19S	V	2 8.500	10.000						3 7	3 6	141
		INCR.= 0.625 (B LEG)			4	3 2.500	10.000						4 1	4 0	
36	5 K9	END BARRIER	E	21S	V	———	2 8.500	10.000			2 7.750	6.750	3 7	3 6	141
		INCR.= 0.625 (C LEG)			4	———	3 2.500	10.000			3 1.750	7.750	4 1	4 0	
36	5 K10	END BARRIER	E	19S		3 3.000	10.000						4 1	4 0	150
36	5 K11	END BARRIER	E	21S		———	3 3.000	10.000			3 2.250	7.750	4 1	4 0	150
12	5 K12	END BARRIER	E	20		15 6.375							15 6	15 6	194
12	5 K13	END BARRIER	E	20		14 6.875							14 7	14 7	183
3	5 K14	END BARRIER	E	20	V	14 9.375							14 9	14 9	37
		INCR.= 3'-0"			1	8 9.375							8 9	8 9	
3	5 K15	END BARRIER	E	20	V	13 9.875							13 10	13 10	34
		INCR.= 3'-0"			1	7 9.875							7 10	7 10	
12	5 K16	END BARRIER	E	20		14 7.875							14 8	14 8	184
12	5 K17	END BARRIER	E	20		15 9.250							15 9	15 9	197
3	5 K18	END BARRIER	E	20	V	13 10.875							13 11	13 11	34
		INCR.= 3'-0"			1	7 10.875							7 11	7 11	
3	5 K19	END BARRIER	E	20	V	15 0.250							15 0	15 0	38
		INCR.= 3'-0"			1	9 0.250							9 0	9 0	
		Slip Form													
72	5 C1	SLIP FORM	E	20		9 9.000							9 9	9 9	732
8	5 C2	SLIP FORM	E	20		12 0.000							12 0	12 0	100

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 38.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

All bars shall be Grade 60.

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.

BILL OF REINFORCING STEEL

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 40
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

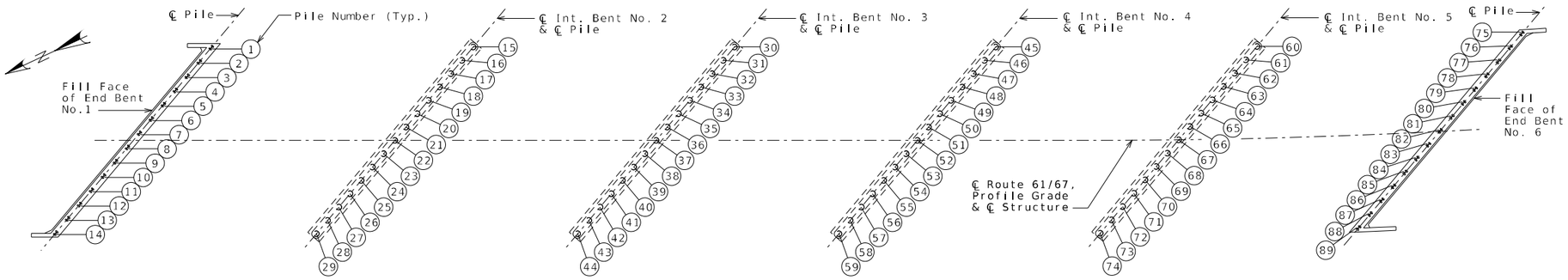
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784



PART PLAN SHOWING PILE NUMBERING FOR RECORDING AS-BUILT PILE DATA

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			End Bent No. 1
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
			End Bent No. 6
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			Int. Bent No. 2
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
			Int. Bent No. 3
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			

As-Built Pile Data			
Pile No.	Length in Place (ft)	Computed Nominal Axial Compressive Resistance (kips)	Remarks
			Int. Bent No. 4
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
			Int. Bent No. 5
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			

Note:
Indicate in remarks column:
A. Pile type and grade
B. Batter
C. Driven to practical refusal

This sheet to be completed by MoDOT construction personnel.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

"AS BUILT PILE" DATA

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 41
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Missouri Department of Transportation
Construction and Materials

BORING NO. O-19-94 (101)
Page 1 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 1 **Logged By:** Duncan Noack **Operator:** Raymond Murray
Station: 807+25.3 **Northing:** 885423.8 **Date of Work:** 09/11/19-09/11/19
Offset: 20.5 R **Easting:** 852029.6 **Depth to Water:** 19.3
Elevation: 403.0 **Requested Northing:** 885429.3 **Depth Hole Open:**
Requested Station: 807+25.3 **Requested Easting:** 852015.9 **Time Change:** 7 hours
Requested Offset: 40.0 R **Equipment:** Acker Soil XLS ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9462 **Hammer Efficiency:** 71% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.9' ASPHALT 0.9-1.6' CONCRETE							
5		1.6-9.6' Bluish gray, SILTY SAND to silt, very loose, moist, fine grained	400	X	67	1-1-1 (2)			MC = 28.2% γ_{sat} = 122 pcf(1)
10		9.6-25.1' Brownish gray mottled, LEAN CLAY, soft to medium stiff, moist to wet	395	X	80	1-2-3 (6)		PP = 1.00 tsf	MC = 25.2% γ_{sat} = 125 pcf(1) LL = 34 PL = 17
15			390	X	100	0-1-2 (4)		PP = 0.25 tsf	
20			385	X	100	1-2-4 (7)		PP = 1.00 tsf	
25		25.1-30.1' Dark brown, SANDY SILT to fine sand, very loose, wet	380	X	100	0-1-1 (2)			
30		30.1-40.3' Grayish brown, SAND, very loose to loose, wet, fine to medium grained, well graded	375	X	100	0-0-0 (0)			
35			370	X	100	2-2-3 (6)			
40			365						

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING B-101

Missouri Department of Transportation
Construction and Materials

BORING NO. O-19-94 (101)
Page 2 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 1 **Logged By:** Duncan Noack **Operator:** Raymond Murray
Station: 807+25.3 **Northing:** 885423.8 **Date of Work:** 09/11/19-09/11/19
Offset: 20.5 R **Easting:** 852029.6 **Depth to Water:** 19.3
Elevation: 403.0 **Requested Northing:** 885429.3 **Depth Hole Open:**
Requested Station: 807+25.3 **Requested Easting:** 852015.9 **Time Change:** 7 hours
Requested Offset: 40.0 R **Equipment:** Acker Soil XLS ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9462 **Hammer Efficiency:** 71% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		40.3-48.2' Purplish brown, FAT CLAY to fat clay, medium stiff, wet	360	X	100	1-3-4 (8)		PP = 1.00 tsf	MC = 35.7% γ_{sat} = 116 pcf(1) LL = 61 PL = 24
45			355	X	100	1-2-2 (5)		PP = 0.75 tsf	
50		48.2-60.3' Brownish gray, SILT, very loose, wet	350	X	100	4-2-0 (2)			
55			345	X	100	3-2-1 (4)			
60		60.3-69.8' Brownish gray, SILTY FAT CLAY, medium stiff to stiff, wet	340	X	100	3-3-6 (11)		PP = 1.00 tsf	MC = 33.1% γ_{sat} = 118 pcf(1) LL = 58 PL = 23
65			335	X	100	2-2-5 (8)		PP = 1.00 tsf	
70		69.8-89.2' Brown, CLAYEY GRAVEL, medium dense to dense, wet, fine grained, well graded	330	X	100	6-12-8 (24)			
75			325	X	53	7-10-6 (19)			
80									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-101

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 42 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 42
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Howard N. Gotschall II
Professional Engineer
PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. O-19-94 (101)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 1 **Logged By:** Duncan Noack **Operator:** Raymond Murray
Station: 807+25.3 **Northing:** 885423.8 **Date of Work:** 09/11/19-09/11/19
Offset: 20.5 R **Easting:** 852029.6 **Depth to Water:** 19.3
Elevation: 403.0 **Requested Northing:** 885429.3 **Depth Hole Open:**
Requested Station: 807+25.3 **Requested Easting:** 852015.9 **Time Change:** 7 hours
Requested Offset: 40.0 R **Equipment:** Acker Soil XLS ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9462 **Hammer Efficiency:** 71% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
80		69.8-89.2' Brown, CLAYEY GRAVEL, medium dense to dense, wet, fine grained, well graded *(continued)*	320		47	8-8-12 (21)			
85			315		40	16-9-21 (36)			
90		89.2-90.4' Sandstone, light gray, very thin bedded, soft, highly weathered, fine grained			50	43/0.4'			
		90.4-100.5' Sandstone, light gray, thin bedded, soft, moderately weathered, fine grained	310		100 (54)		Qu Test Results UCS = 238 ksf MC = 5% γ_{moist} = 150.2 pcf		
95			305		92 (50)		Qu Test Results UCS = 371 ksf MC = 7.6% γ_{moist} = 142.5 pcf		
100		Bottom of borehole at 100.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-101

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 43 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004008784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 43
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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Professional Engineer
PE-2004008784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-107 (202)
Page 1 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 2 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 808+30.6 **Northing:** 885309.6 **Date of Work:** 09/25/19-09/25/19
Offset: 17.0 L **Easting:** 852014 **Depth to Water:** 18.0
Elevation: 402.0 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.7' CONCRETE 0.7-12.3' Air	400						
5			395						
10			390						
15		12.3-29.7' Brown, LEAN CLAY scattered fine sand, very soft to medium stiff, moist to wet	385		100	1-2-2 (5)		PP = 0.50 tsf	MC = 26.2% γ_{wet} = 124 pcf[1] LL = 33 PL = 16
20			380		100	1-1-2 (4)		PP = 0.50 tsf	
25			375		100	0-0-1 (1)		PP = 0.00 tsf	
30		29.7-39.6' Brown, SAND, very loose, wet, fine grained, poorly graded	370		47	0-0-1 (1)			
35			365		100	2-1-1 (3)			
40									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-107 (202)
Page 2 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 2 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 808+30.6 **Northing:** 885309.6 **Date of Work:** 09/25/19-09/25/19
Offset: 17.0 L **Easting:** 852014 **Depth to Water:** 18.0
Elevation: 402.0 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		39.6-44.8' Gray, FAT CLAY trace fine sand, medium stiff, wet *(continued)*	360		100	1-2-3 (6)		PP = 0.75 tsf	LL = 62 PL = 24
45		44.8-74.7' Gray and brown, LEAN CLAY trace fine sand, very soft to stiff, wet	355		100	3-3-5 (10)		PP = 2.00 tsf	LL = 43 PL = 20
50			350		53	0-0-1 (1)		PP = 0.00 tsf	
55			345		40	2-3-4 (9)		PP = 1.75 tsf	
60			340		0	2-3-4 (9)			
65			335		100	0-3-3 (6)		PP = 1.25 tsf	
70			330		27	7-6-4 (13)		PP = 1.50 tsf	
75		74.7-89.8' Tan, SAND, medium dense to dense, wet, fine grained, well graded	325		40	10-12-16 (28)			
80									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-202 BORING DATA BORING B-202

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 44 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 44
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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PE-2004040784

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-107 (202)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 2 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 808+30.6 **Northing:** 385309.6 **Date of Work:** 09/25/19-09/25/19
Offset: 17.0 L **Easting:** 852014 **Depth to Water:** 18.0
Elevation: 402.0 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
80		74.7-89.8' Tan, SAND, medium dense to dense, wet, fine grained, well graded *(continued)*	320		20	9-8-8 (20)			
85			315						
90		89.8-101.5' Sandstone, tan, thin bedded, soft, moderately weathered, fine grained, Poorly cemented	310		0	40/0.4'			
95					80 (0)				
100			305		62 (12)		Qu Test Results UCS = 378 ksf MC = 5.8% γ_{moist} = 148.7 pcf		
		Bottom of borehole at 101.5 feet.							

$N_{60} = (Em/60)Nm$ N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-202

BORING DATA

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: For location of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 45 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 45
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-101 (301)
Page 1 of 3

Job No.: J6S3289-A8737 | **County:** Jefferson | **Route:** 61
Design: A8737 | **Skew:** 15 LA | **Location:** Over Joachim Creek
Bent: 3 | **Logged By:** Matthew Kraus | **Operator:** Kenny Mathews
Station: 809+11.4 | **Northing:** 885255.8 | **Date of Work:** 09/11/19-09/11/19
Offset: 17.0 R | **Easting:** 851944.7 | **Depth to Water:** 18.5
Elevation: 402.4 | **Requested Northing:** | **Depth Hole Open:**
Requested Station: 810+85.3 | **Requested Easting:** | **Time Change:** At Time of Drilling
Requested Offset: 40.0 R | **Equipment:** Acker Renegade ,Grab Sample, Split-Spoon Sampler, NQ
Requested Elevation: | **Location Note:**
Drill No.: G-9667 | **Hammer Efficiency:** 76% | **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.8' CONCRETE 0.8-18.5' Air	400						
5			395						
10			390						
15			385						
20		18.5-28.3' WATER	380						
25			375						
30		28.3-40.8' Gray, SAND, very loose to loose, wet, fine and coarse grained, poorly graded	370		13	0-0-2 (3)			
35			365		33	1-2-2 (5)			
40									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-101 (301)
Page 2 of 3

Job No.: J6S3289-A8737 | **County:** Jefferson | **Route:** 61
Design: A8737 | **Skew:** 15 LA | **Location:** Over Joachim Creek
Bent: 3 | **Logged By:** Matthew Kraus | **Operator:** Kenny Mathews
Station: 809+11.4 | **Northing:** 885255.8 | **Date of Work:** 09/11/19-09/11/19
Offset: 17.0 R | **Easting:** 851944.7 | **Depth to Water:** 18.5
Elevation: 402.4 | **Requested Northing:** | **Depth Hole Open:**
Requested Station: 810+85.3 | **Requested Easting:** | **Time Change:** At Time of Drilling
Requested Offset: 40.0 R | **Equipment:** Acker Renegade ,Grab Sample, Split-Spoon Sampler, NQ
Requested Elevation: | **Location Note:**
Drill No.: G-9667 | **Hammer Efficiency:** 76% | **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		40.8-70.9' Gray, LEAN CLAY, soft to stiff, wet	360		53	1-1-2 (4)		PP = 0.25 tsf	
45			355		100	2-2-3 (6)		PP = 0.25 tsf	
50			350		100	1-1-3 (5)		PP = 1.00 tsf	
55			345		100	5-5-9 (18)		PP = 1.50 tsf	
60			340		100	6-5-4 (11)		PP = 1.50 tsf	
65			335		100	3-3-7 (13)		PP = 1.50 tsf	
70		70.9-79.1' Brown and gray, SANDY GRAVEL, medium dense, wet, fine grained, poorly graded	330		100	8-6-4 (13)		PP = 0.50 tsf	Sieve Analysis Sieve # % Passing 1½" 100.0 1" 96.9 3/4" 89.6 3/8" 68.9 #4 51.1 #10 38.3 #16 33.4 #40 25.4 #50 19.1 #100 13.7
75			325		47	10-9-10 (24)			
80									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING B-301 | BORING DATA | BORING B-301

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: For location of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 46
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-101 (301)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 3 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 809+11.4 **Northing:** 835255.8 **Date of Work:** 09/11/19-09/11/19
Offset: 17.0 R **Easting:** 851944.7 **Depth to Water:** 18.5
Elevation: 402.4 **Requested Northing:** **Depth Hole Open:**
Requested Station: 810+85.3 **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: 40.0 R **Equipment:** Acker Renegade ,Grab Sample, Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
80									#200 11.8
		79.1-89.0' Brown, CLAYEY GRAVEL, medium dense to dense, wet, fine grained, poorly graded *(continued)*	320		60	9-4-9 (16)			
85					60	6-5-10 (19)			
			315						
					36	18-21-40/0.4'			
90		89.0-91.0' Sandstone, tannish white, soft, highly weathered, fine grained							
		91.0-106.5' Sandstone, tannish white, thin bedded, soft, moderately weathered, fine grained, Poorly cemented	310		24 (0)				
95									
			305		90 (16)		Qu Test Results UCS = 299 ksf MC = 7.2% γ_{moist} = 139.7 pcf		
100							Qu Test Results UCS = 236 ksf MC = 7.2% γ_{moist} = 142.9 pcf		
			300		88 (8)		Qu Test Results UCS = 287 ksf MC = 7.9% γ_{moist} = 143.6 pcf		
105		Bottom of borehole at 106.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000678
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-301

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 47 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 47
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-100 (402)
Page 1 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 4 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 810+10.6 **Northing:** 885152.7 **Date of Work:** 09/10/19-09/10/19
Offset: 17.0 L **Easting:** 851925.8 **Depth to Water:** 18.8
Elevation: 401.9 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.8' CONCRETE 0.8-18.8' Air	400						
5			395						
10			390						
15			385						
20		18.8-29.8' WATER	380						
25			375						
30		29.8-38.2' Gray, SANDY FAT CLAY, very soft to medium stiff, wet	370		0	0-0-0 (0)			
35			365		100	3-2-2 (5)		PP = 0.00 tsf	LL = 68 PL = 27
40		38.2-68.0' Gray, LEAN CLAY trace fine sand, very soft to stiff, wet							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-402

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-100 (402)
Page 2 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 4 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 810+10.6 **Northing:** 885152.7 **Date of Work:** 09/10/19-09/10/19
Offset: 17.0 L **Easting:** 851925.8 **Depth to Water:** 18.8
Elevation: 401.9 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		38.2-68.0' Gray, LEAN CLAY trace fine sand, very soft to stiff, wet *(continued)*	360		100	3-4-2 (8)		PP = 0.75 tsf	MC = 37.2% γ_{tot} = 115 pcf(1) LL = 46 PL = 20
45			355		100	0-2-3 (6)		PP = 0.75 tsf	
50			350		100	1-3-3 (8)		PP = 0.75 tsf	
55			345		27	0-0-0 (0)		PP = 0.25 tsf	
60			340		100	4-5-7 (15)		PP = 2.00 tsf	
65			335		100	4-4-4 (10)		PP = 0.50 tsf	MC = 42.0% γ_{tot} = 112 pcf(1) LL = 49 PL = 22
70		68.0-71.6' Gray, GRAVELLY LEAN CLAY, hard, wet							
75		71.6-89.7' Gray, SANDY GRAVEL, medium dense to very dense, wet	330		40	3-6-21 (34)			
80			325		0	2-6-21 (34)			

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-402

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 48 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004100784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 48
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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PE-2004100784

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-100 (402)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 4 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 810+10.6 **Northing:** 885152.7 **Date of Work:** 09/10/19-09/10/19
Offset: 17.0 L **Easting:** 851925.8 **Depth to Water:** 18.8
Elevation: 401.9 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:**
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Casing Advancer

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
80		71.6-89.7' Gray, SANDY GRAVEL, medium dense to very dense, wet *(continued)*	320		73	12-17-24 (52)			
85			315		20	6-3-7 (13)			
90		89.7-109.7' Sandstone, tannish white, thin bedded, soft, moderately weathered to highly weathered, fine grained. Poorly cemented	310		0	40/0.1'			
95			305		64 (0)				
100			300		72 (0)		Qu Test Results UCS = 193 ksf MC = 8.2% γ_{max} = 140.4 pcf		
105			295		96 (8)				
		Bottom of borehole at 109.7 feet.			58 (0)				

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-402

BORING DATA

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: For location of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 49 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 49
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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PE-2004000784

Missouri Department of Transportation Construction and Materials

BORING NO. V-19-106 (501)
Page 1 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 5 **Logged By:** Duncan Noack **Operator:** Kenny Mathews
Station: 810+85.3 **Northing:** 885102.9 **Date of Work:** 09/23/19-09/24/19
Offset: 16.5 R **Easting:** 851854.8 **Depth to Water:** 20.3
Elevation: 402.3 **Requested Northing:** 885115.6 **Depth Hole Open:**
Requested Station: **Requested Easting:** 851839.5 **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.7' ASPHALT 0.7-2.7' CRUSHED AGGREGATE BASE	400						
5		2.7-10.6' Brown, LEAN CLAY trace silt, very soft to soft, moist			67	0-1-2 (4)		PP = 0.00 tsf	MC = 29.0% γ_{tot} = 121 pcf[1] LL = 44 PL = 18
10		10.6-15.3' Brown, SANDY LEAN CLAY, soft, moist	395		87	1-1-2 (4)		PP = 0.25 tsf	
15		15.3-19.7' Brown and gray, SANDY LEAN CLAY, very soft to soft, moist	390			0-1-1 (3)		PP = 0.00 tsf	
20		19.7-71.6' Gray, FAT CLAY scattered fine sand, very soft to medium stiff, moist to wet	385			0-0-0 (0)		PP = 0.00 tsf	
25			380		100	0-0-0 (0)		PP = 0.00 tsf	
30			375			0-0-1 (1)		PP = 0.00 tsf	
35			370		60	0-0-2 (3)		PP = 0.00 tsf	
40			365						

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-501

Missouri Department of Transportation Construction and Materials

BORING NO. V-19-106 (501)
Page 2 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 5 **Logged By:** Duncan Noack **Operator:** Kenny Mathews
Station: 810+85.3 **Northing:** 885102.9 **Date of Work:** 09/23/19-09/24/19
Offset: 16.5 R **Easting:** 851854.8 **Depth to Water:** 20.3
Elevation: 402.3 **Requested Northing:** 885115.6 **Depth Hole Open:**
Requested Station: **Requested Easting:** 851839.5 **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		19.7-71.6' Gray, FAT CLAY scattered fine sand, very soft to medium stiff, moist to wet *(continued)*	360		100	0-0-0 (0)		PP = 0.00 tsf	
45			355		100	0-0-1 (1)		PP = 0.00 tsf	
50			350		100	0-0-2 (3)		PP = 0.00 tsf	
55			345		100	0-0-2 (3)		PP = 0.00 tsf	LL = 63 PL = 25
60			340		50	1-2-3 (6)		PP = 0.75 tsf	
65			335		100	2-4-10 (18)		PP = 1.00 tsf	
70			330		100	6-7-4 (14)		PP = 0.50 tsf	
75		71.6-89.0' Gray, SANDY GRAVEL, medium dense, wet, fine grained, well graded	325		73	7-5-5 (13)			
80									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-501

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 50 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004080784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 50
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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PE-2004080784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-106 (501)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 5 **Logged By:** Duncan Noack **Operator:** Kenny Mathews
Station: 810+85.3 **Northing:** 885102.9 **Date of Work:** 09/23/19-09/24/19
Offset: 16.5 R **Easting:** 851854.8 **Depth to Water:** 20.3
Elevation: 402.3 **Requested Northing:** 885115.6 **Depth Hole Open:**
Requested Station: **Requested Easting:** 851839.5 **Time Change:** At Time of Drilling
Requested Offset: **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
80		71.6-89.0' Gray, SANDY GRAVEL, medium dense, wet, fine grained, well graded *(continued)*	320		67	3-4-6 (13)			
85			315		53	6-5-11 (20)			
90		89.0-90.5' Sandstone, grayish tan, soft, highly weathered, fine grained			50	40/0.4'			
		90.5-105.5' Sandstone, grayish tan, soft, moderately weathered, fine grained, Poorly cemented	310		60 (0)				
95			305		82 (0)				
100			300		94 (54)		Qu Test Results UCS = 365 ksf MC = 8.6% γ_{moist} = 140.5 pcf Qu Test Results UCS = 247 ksf MC = 8.9% γ_{moist} = 141.6 pcf Qu Test Results UCS = 414 ksf MC = 8.6% γ_{moist} = 141.9 pcf		
105		Bottom of borehole at 105.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-501

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 51 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 51
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

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105 WEST CAPITOL
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Howard N. Gotschall II
Professional Engineer
PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-94 (602)
Page 1 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 6 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 811+96.7 **Northing:** 884990 **Date of Work:** 09/04/19-09/04/19
Offset: 24.0 L **Easting:** 851834.6 **Depth to Water:** 18.5
Elevation: 402.5 **Requested Northing:** 884979.2 **Depth Hole Open:**
Requested Station: 811+96.7 **Requested Easting:** 851854.6 **Time Change:** At Time of Drilling
Requested Offset: 40.0 L **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-8.1' Brown, LEAN CLAY, medium stiff, moist	400						
5				X	80	2-2-2 (5)		PP = 1.00 tsf	LL = 37 PL = 18
			395						
		8.1-48.2' Dark gray, LEAN CLAY, very soft to stiff, moist to wet							
10				X	40	3-2-2 (5)		PP = 0.50 tsf	MC = 30.4% γ_{sat} = 120 pcf(1) LL = 45 PL = 21
			390						
15				X	100	1-2-2 (5)		PP = 1.25 tsf	
			385						
20				X	100	1-1-1 (3)		PP = 1.00 tsf	
			380						
25				X	100	0-0-1 (1)		PP = 0.00 tsf	MC = 28.5% γ_{sat} = 122 pcf(1) LL = 31 PL = 16
			375						
30				X	100	1-2-3 (6)		PP = 1.00 tsf	
			370						
35				X	100	0-1-2 (4)		PP = 0.50 tsf	
			365						
40									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING B-602

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-94 (602)
Page 2 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 6 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 811+96.7 **Northing:** 884990 **Date of Work:** 09/04/19-09/04/19
Offset: 24.0 L **Easting:** 851834.6 **Depth to Water:** 18.5
Elevation: 402.5 **Requested Northing:** 884979.2 **Depth Hole Open:**
Requested Station: 811+96.7 **Requested Easting:** 851854.6 **Time Change:** At Time of Drilling
Requested Offset: 40.0 L **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
40		8.1-48.2' Dark gray, LEAN CLAY, very soft to stiff, moist to wet *(continued)*							
			360	X	100	1-2-4 (8)		PP = 1.25 tsf	
45				X	100	2-2-3 (6)		PP = 1.50 tsf	
			355						
50		48.2-67.2' Dark gray, FAT CLAY, soft to stiff, wet, With sand pockets		X	100	3-3-3 (8)		PP = 1.50 tsf	
			350						
55				X	100	1-2-4 (8)		PP = 1.50 tsf	MC = 33.1% γ_{sat} = 118 pcf(1) LL = 50 PL = 24
			345						
60				X	100	0-1-1 (3)		PP = 0.50 tsf	
			340						
65				X	100	1-3-7 (19)		PP = 0.50 tsf	
		67.2-90.4' Gray, SANDY GRAVEL, loose to very dense, wet, fine grained, poorly graded	335						
70				X	27	3-3-5 (10)			
			330						
75				X		9-15-29 (56)			
			325						
80									

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-602

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 52 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 52
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Howard N. Gotschall II
Professional Engineer
PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-94 (602)
Page 3 of 3

Job No.: J6S3289-A8737 **County:** Jefferson **Route:** 61
Design: A8737 **Skew:** 15 LA **Location:** Over Joachim Creek
Bent: 6 **Logged By:** Matthew Kraus **Operator:** Kenny Mathews
Station: 811+96.7 **Northing:** 884990 **Date of Work:** 09/04/19-09/04/19
Offset: 24.0 L **Easting:** 851834.6 **Depth to Water:** 18.5
Elevation: 402.5 **Requested Northing:** 884979.2 **Depth Hole Open:**
Requested Station: 811+96.7 **Requested Easting:** 851854.6 **Time Change:** At Time of Drilling
Requested Offset: 40.0 L **Equipment:** Acker Renegade ,Split-Spoon Sampler, NQ
Requested Elevation: **Location Note:** Inaccessible due to terrain.
Drill No.: G-9667 **Hammer Efficiency:** 76% **Drilling Method:** Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{MD})	Shear Data	Field Tests	Index Tests
80		67.2-90.4' Gray, SANDY GRAVEL, loose to very dense, wet, fine grained, poorly graded *(continued)*	320		100	6-9-11 (25)			
85			315		100	6-7-7 (18)			
90					100	40/0.4"			
95		90.4-96.2' Sandstone, gray, thin bedded, moderately weathered, fine grained, Poorly cemented	310		58 (8)		Qu Test: Results UCS = 245 ksf MC = 8% γ_{moist} = 141.1 pcf		
100		96.2-106.2' Sandstone, gray, thin bedded, soft, slightly weathered, fine grained, Well cemented	305		100 (48)		Qu Test: Results UCS = 329 ksf MC = 8% γ_{moist} = 144.9 pcf		
105			300		96 (26)		Qu Test: Results UCS = 262 ksf MC = 8.4% γ_{moist} = 136.6 pcf		
		Bottom of borehole at 106.2 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT effciency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: Modified U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:** 1.0000878
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING B-602

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 11/08/24
Detailed: BWC 11/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 53 of 53

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 STATE MO
DISTRICT BR SHEET NO. 53
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A8737

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

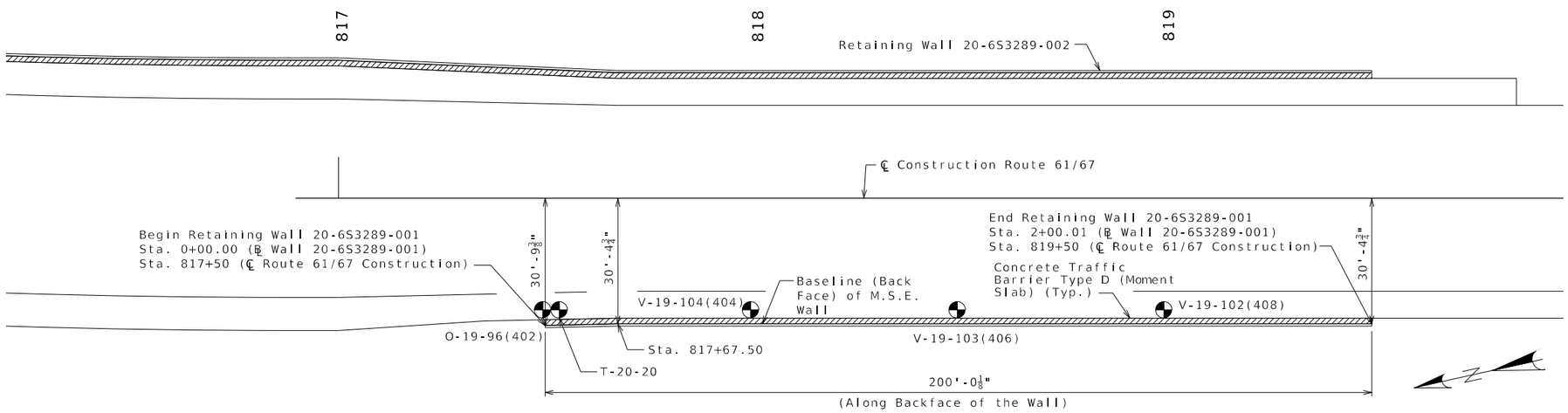
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Professional Engineer
PE-2004040784

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SEC/SUR 2977 TWP 41N RGE 6E

200'-0⅛" MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM



PLAN
PROPOSED MSE WALL NO. 20-6S3289-001

Notes: Horizontal dimensions are measured along baseline (back face) of wall.

Coping and Leveling Pad not shown for clarity.

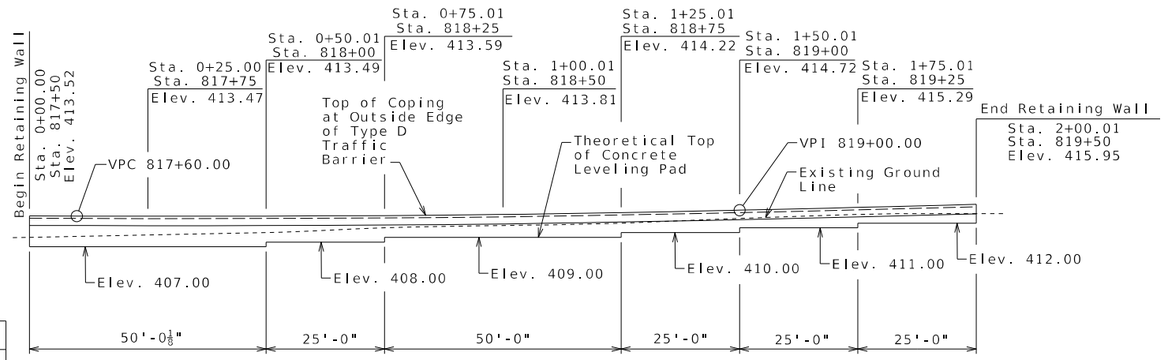
Wall contractor shall show the following items on the design drawings and/or on the fabricator shop drawings.

1. Leveling pad horizontal.
2. Leveling pad length and step elevations shall be based on wall manufacturer's recommendation. Top of leveling pad elevations shall not be higher than theoretical top of leveling pad elevations shown on these plans.

Estimated Quantities		
Item		Total
Mechanically Stabilized Earth Wall Systems	sq. foot	1007
Aesthetic Concrete Stain	lump sum	1

MSE Wall Systems Data Table					
Proprietary Wall Systems		Combination Wall Systems			
Manufacturer	System	Facing Unit Manufacturer	Facing Unit	Geogrid Manufacturer	Geogrid

MSE Wall Systems Data Table is to be completed by MoDOT construction personnel to record the manufacturer of the proprietary wall system or the manufacturers of the combination wall system that was used for constructing the MSE wall.

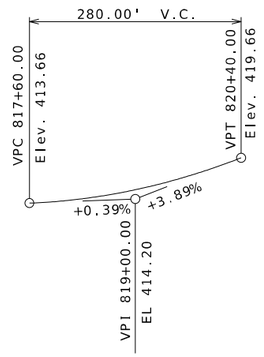


DEVELOPED ELEVATION

Notes: Horizontal dimensions are measured along baseline (back face) of wall.

Leveling Pad not shown for clarity.

Stationing along the wall is along baseline (back face) of wall.



VERTICAL CURVE DATA

Bench Marks (NAVD 88 Datum)

Control Point #7
Rebar North of Scenic Dr. on East Side of Route 61
N 884298.730
E 851593.512
Elev. 415.74

M.S.E. RETAINING WALL ALONG ROUTE 61/67

STATE ROAD (ROUTE 61/67) FROM ST. LOUIS CO. LINE TO FESTUS

ABOUT 1 MILE WEST OF HERCULANEUM

PROJECT NO. STA. 817+50 (ROUTE 61/67)

JOB NO. J6S3289

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheets No. 4-6 and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 1
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

DESCRIPTION
DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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PE-2004000786

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Ed.)
Seismic Design Category = C (Seismic Zone - 3) (No Seismic Analysis)
Design earthquake response spectral acceleration coefficient at 1.0 second period, S_{D1} = 0.369g
Acceleration Coefficient (effective peak ground acceleration coefficient), A_s = 0.338g

Design Loading:

For strength limit state and extreme event limit state, the wall designer to confirm that the minimum Capacity to Demand Ratio (CDR) for bearing, sliding, overturning, eccentricity, and internal stability is greater than or equal to 1.0. MSE wall designer shall include this note on shop drawings.

For Extreme Event I limit state, the wall designer shall design wall for γ_{EQ} = 0.5

Φ_b = 22° and Unit weight, γ_b = 120 pcf for retained backfill material to be retained by the mechanically stabilized earth wall system.

Φ_f = 22° for unimproved foundation ground where wall is to bear.

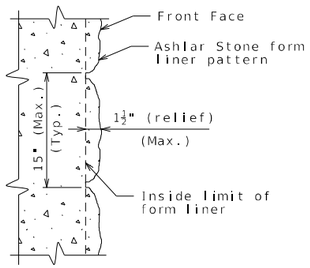
For unimproved foundation ground, factored bearing resistance is 2.2 ksf for strength limit state and factored bearing resistance is 3.0 ksf for extreme event limit state.

The maximum applied factored bearing stress for the strength and extreme event limit state(s) at the foundation level shall be shown on the shop drawings and shall be less than the factored bearing resistance.

Factored bearing resistance shall be used as shown on the plans. No adjustments are allowed.

Contractor shall include design Φ_r (actual $\Phi_r \geq 34°$) and the total unit weight, γ_r, for the select granular backfill (reinforced backfill and wedge area backfill) for structural systems on shop drawings. Contractor shall identify source of select granular backfill material, submit proctor in accordance with AASHTO T 99 (ASTM D698) and gradation with the shop drawings. When backfill material is too coarse to develop a proctor curve the contractor shall determine the maximum dry density (relative density) in accordance with ASTM D4253 and ASTM D4254 and assume percent passing the 200 sieve for optimum water content.

Total unit weight, γ_r = (95% compaction) x (maximum dry density) x (1 + optimum water content)



FORM LINER DETAIL
(PRECAST MODULAR PANEL WALL)

Notes for Form Liners:

The cost of form liners for MSE wall systems, complete in place, will be considered completely covered by the contract unit price for Mechanical Stabilized Earth Wall System.

Form liner shall be constructed in accordance with Special Provisions.

The following is a list of form liner manufacturers and types which may be used. Depth of relief for all form liner patterns shall vary up to 1 1/2". The height of any single 'stone' shall be 15" maximum.

- Scott System, Inc.: Form liner pattern #167 "Ashlar Stone"
- Fitzgerald Formliners: Form liner pattern #16986 "Ashlar Stone"
- Greenstreak: Form liner pattern #330 "Ashlar Stone"
- Spec Formliners: Form liner pattern #1515 "Ashlar Stone"
- Customrock: Form liner pattern #12020 "Tollway Ashlar"
- An approved equal

Design Φ_r = 34° for the select granular backfill (reinforced backfill) for structural systems.

No-Seismic-Analysis provisions may be considered for MSE wall design in accordance with LRFD 11.5.4.2.

Use default values for the pullout friction factor, F^*, in accordance with LRFD figure 11.10.6.3.2-2 and default value for scale effect correction factor, α, in accordance with LRFD table 11.10.6.3.2-1. For approved steel strips not shown in LRFD figure 11.10.6.3.2-2, use $F^* \leq 2.0$ at zero depth and $F^* \leq \text{Tan } \Phi_r$ at 20 feet depth and Φ_r design = 34°. F^* and α values shall be shown on the shop drawings.

Design Unit Stresses:

All concrete for leveling pad and coping shall be Class B or B-1 with f'c = 4000 psi.

The minimum compressive strength of concrete for precast modular panel shall be 4,000 psi in accordance with Sec 1052.

Excavation:

Excavation quantities and pay items are given on the roadway plans. Excavation quantities are based on a soil reinforcement length of 8 ft. The soil reinforcement length may vary based upon the wall design selected by the contractor. Plan excavation quantities will be paid regardless of any actual quantities removed based on the soil reinforcement length and design selected.

The MSE wall system shall be built vertical.

The MSE wall system shall be built in accordance with Sec 720.

The MSE wall system shall be a precast modular panel wall system.

Precast modular panel, drycast modular block, wetcast modular block and coping (or capstone) reinforcement shall be epoxy coated.

A filter cloth meeting the requirements for a Separation Geotextile material shall be placed between the select granular backfill for structural systems and the backfill being retained by the mechanically stabilized earth wall system.

Coping shall be required on this structure. When CIP coping sections extend beyond the limits of a single panel, bond breaker (roofing felt or other approved alternate) between wall panel and coping is required. Coping joints shall use 3/4-inch chamfers and shall be sealed with 3/4-inch joint filler. Coping reinforcement shall terminate 1 1/2-inch minimum from face of coping joint.

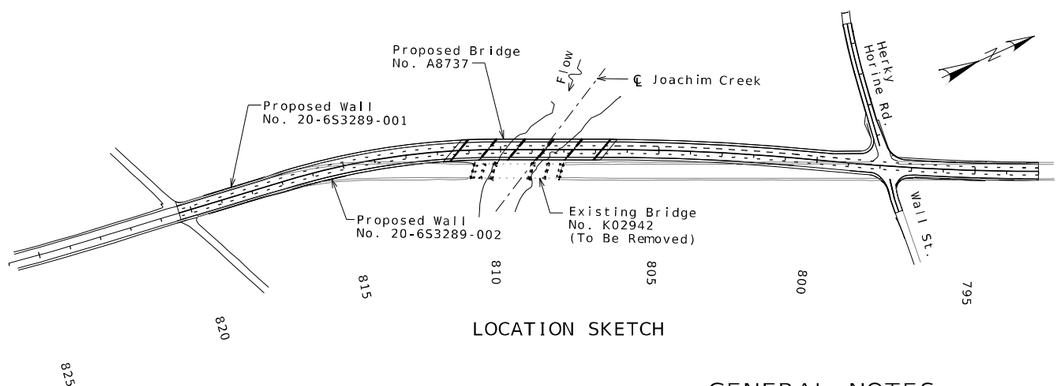
The contractor shall be solely responsible to coordinate construction of the wall with bridge and roadway construction and ensure that the bridge and roadway construction, resulting or existing obstructions, shall not impact the construction or performance of the wall. Soil reinforcement shall be designed and placed to avoid damage by pile driving, guardrail post installation, utility and sign foundations. (See Roadway and Bridge plans.)

Minimum 18" wide geotextile strips shall be centered at vertical and horizontal joints of panel. Geotextile material shall be adhered to back face of panel using an adhesive compound supplied by the manufacturer. All edges of each fabric strip shall provide a positive seal. A minimum 12" overlap shall be provided between spliced filter fabric.

Aluminized soil reinforcement shall have edges coated with coating material per manufacturer.

Soil reinforcement shall be spaced to avoid roadway drop inlet behind wall.

Upper two layers of soil reinforcement shall be extended 3 feet beyond the lower layers when wall height is greater than or equal to 10 feet.



LOCATION SKETCH

Designed:	BWC	12/08/24
Detailed:	BWC	12/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

GENERAL NOTES
FOR MSE WALL NO. 20-6S3289-001

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 2
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

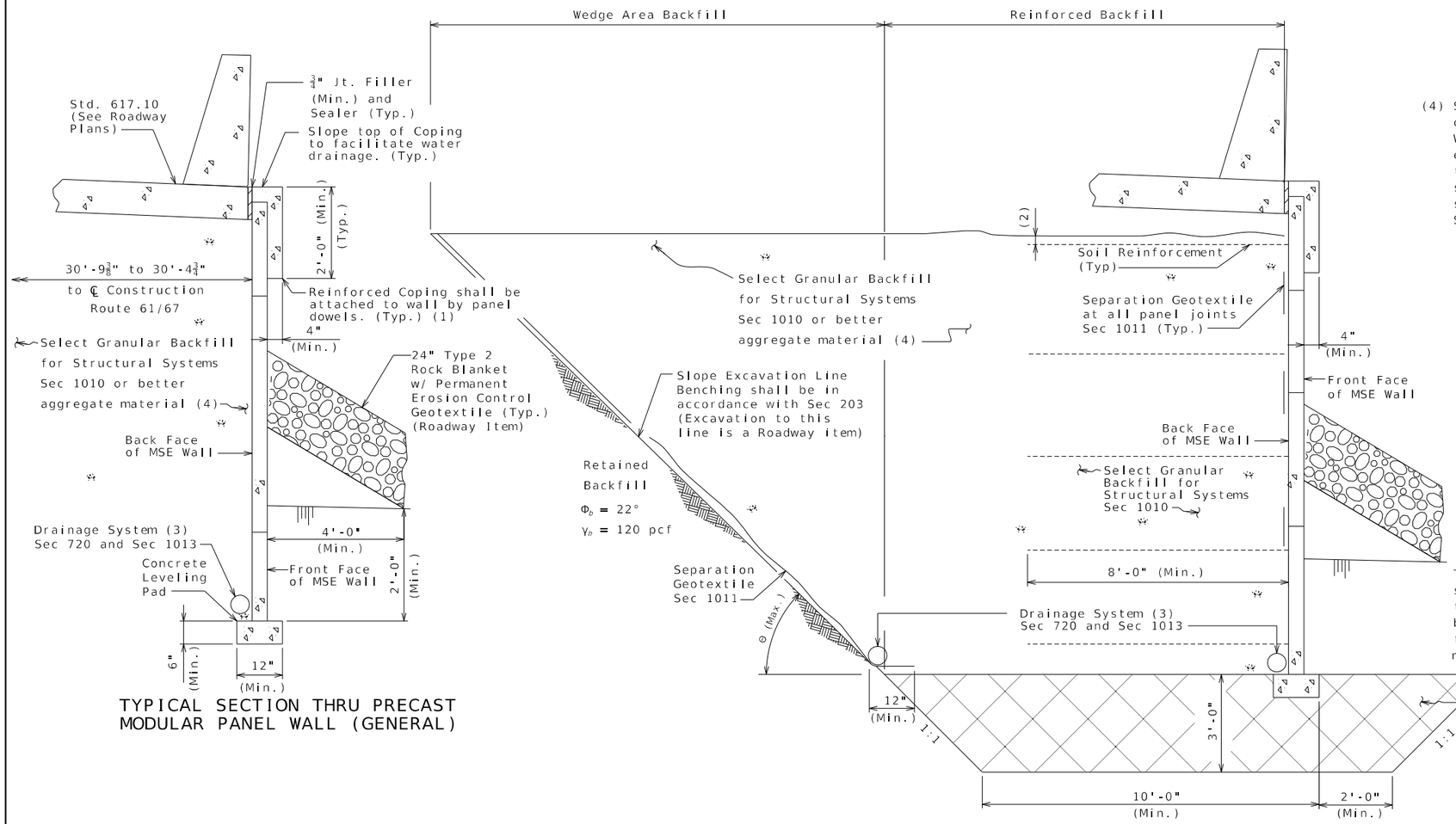
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TYPICAL SECTION THRU PRECAST MODULAR PANEL WALL (GENERAL)

TYPICAL SECTION THRU LARGE BLOCK WALL SHOWING FILTER CLOTH & OVER EXCAVATION

(4) Select granular backfill shall extend a minimum of 12" beyond the end of all soil reinforcement. Where the angle, Θ, between the retained backfill excavation/fill line and the horizontal is less than 90°, the wedge area backfill between Θ and 90° shall be filled with select granular backfill for structural systems meeting the requirements of Section 1010.

- For 45° < Θ ≤ 90°, properties for retained backfill shall be used for active force computations.

- For Θ ≤ 45°, contractor shall have the option to use select granular backfill, Φ_r, or better aggregate material for active force computation in the wedge area backfill. For active force computations, the angle of internal friction for wedge area backfill material, Φ_r, shall be limited to 34° unless determined otherwise in accordance with Section 1010. If Φ_r > 34° is desired for wedge area backfill then test report shall be submitted with manufacturer's design plans. Φ_r shall not be greater than 40°. Final configuration of this option shall be sent to Geotechnical Section or a new overall global stability analysis. Design Φ_r° shall be shown on manufacturer's plans if used.

The slope excavation line shall be benched and separation geotextile shall be placed between the retained backfill and either select granular backfill or better aggregate material, and between the select granular backfill and better aggregate material.

Material Properties Used in Design						
Reinf. Fill/Select Granular Backfill			Active Force Computations			Foundation
Φ_r°	γ_r (pcf)		Φ°	γ (pcf)		Φ_r°

MSE Wall designer shall include table on shop drawings and provide values used in the design computations. Effects of cohesion shall be ignored unless approved by the engineer.

Show range of acceptable theta (Θ) angle on shop drawings which must be consistent with design computations and proposed construction of wall. Show active force computation properties ($\Phi° = \Phi_r°$ and $\gamma = \gamma_r$ or $\Phi° = \Phi_b°$ and $\gamma = \gamma_b$) on shop drawings and in design computations. Coordination between wall designer (manufacturer) and contractor is required before shop drawing submittal.

(1) Inverted U-shape reinforced capstone may be used in lieu of coping. Panel dowels for level-up concrete shall be required, and provided by manufacturer. The dowels shall be field trimmed to clear the capstone by a minumum of 1 1/2 inches and a maximum of 2 1/2 inches.

(2) Topmost layer of reinforcement shall be fully covered with select granular backfill for structural systems, as approved by the wall manufacturer, before placement of the Separation Geotextile.

(3) Minimum 6" diameter perforated PVC or PE pipe.

Manufacturer shall show drain details on design plans to be submitted as shown on MoDOT MSE wall plans and/or roadway plans.

Contractor shall modify the drain details as shown if it will improve flow as may be the case for stepped leveling pad, and for an uneven ground line (approval of the engineer required).

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

DETAILS FOR MSE WALL NO. 20-6S3289-001

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Professional Engineer Certificate of Authority
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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004000786

Missouri Department of Transportation
Construction and Materials

BORING NO. O-19-96 (402)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 4/New Wall 1
Bent:
Station: 817+49.4
Offset: 27.0 R
Elevation: 411.0
Requested Station: 817+49.7
Requested Offset: 32.0 R
Requested Elevation: 409.7
Drill No.: G-9462

County: Jefferson
Skew:
Logged By: Duncan Noack
Northing: 884425.4
Easting: 851495.3
Requested Northing: 884423.7
Requested Easting: 851490.1
Equipment: Acker Soil XLS ,Split-Spoon Sampler, Shelby Tube
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 71%

Route: 61
Location:
Operator: Raymond Murray
Date of Work: 09/12/19-09/12/19
Depth to Water: 12.5
Depth Hole Open:
Time Change: 0 hours
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.5' ASPHALT							
		0.5-7.6' Brown, SILTY LEAN CLAY, soft to stiff, moist	410						
				X	0	3-2-2 (5)			
5			405		68			PP = 1.00 tsf Torvane = 0.80 tsf	MC = 21.7% γ_{sat} = 128 pcf[1] MC = 22.7% LL = 33 PL = 19
		7.6-14.0' Tannish gray, FAT CLAY, medium stiff to stiff, moist to wet		X	100	2-3-5 (9)		PP = 1.00 tsf	
10			400		64			PP = 1.25 tsf Torvane = 0.70 tsf	MC = 32.6% γ_{sat} = 118 pcf[1] MC = 27.8% LL = 72 PL = 27
				X	100	1-2-3 (6)		PP = 1.50 tsf	LL = 66 PL = 31
		Bottom of borehole at 14.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING 0-19-96(402)

Missouri Department of Transportation
Construction and Materials

BORING NO. T-20-20
Page 1 of 1

Job No.: J6S3289-Walls
Design: New Wall 1
Bent:
Station: 817+53.4
Offset: 27.0 R
Elevation: 411.0
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: G-9577

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884421.2
Easting: 851494.9
Requested Northing:
Requested Easting:
Equipment: CME 45 ,Split-Spoon Sampler, Shelby Tube
Location Note: Additional boring for new alignment
Hammer Efficiency: 70%

Route: 61
Location:
Operator: Gary Degraffenreid
Date of Work: 10/07/20-10/07/20
Depth to Water: 10.0
Depth Hole Open:
Time Change: 0 hours
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.7' ASPHALT							
		0.7-7.5' Brown and gray, LEAN CLAY scattered fine sand, medium stiff to stiff, moist	410						
5			405		60		Qu Test Results UCS = 2.21 ksf MC = 21.8% γ_{moist} = 127.9 pcf	PP = 1.00 tsf Torvane = 0.20 tsf	LL = 27 PL = 19 MC = 23.1% γ_{sat} = 127 pcf[1]
		7.5-15.0' Gray, LEAN CLAY scattered fine sand, scattered silt, medium stiff to stiff, moist to wet		X	93	2-4-6 (12)		PP = 1.50 tsf	MC = 25.5% γ_{sat} = 124 pcf[1]
10			400		68		Qu Test Results UCS = 2.10 ksf MC = 24.6% γ_{moist} = 123.4 pcf	PP = 1.50 tsf Torvane = 0.80 tsf	LL = 34 PL = 17 MC = 24.0% γ_{sat} = 126 pcf[1]
		12.5-12.9' sand pocket		X	80	2-2-5 (8)		PP = 1.50 tsf	MC = 35.2% γ_{sat} = 116 pcf[1]
15		15.0-19.0' Gray, FAT CLAY scattered fine sand, scattered silt, medium stiff to stiff, wet	395		100		Qu Test Results UCS = 1.92 ksf MC = 48.1% γ_{moist} = 108.9 pcf	PP = 2.00 tsf Torvane = 0.60 tsf	LL = 88 PL = 31 MC = 34.0% γ_{sat} = 117 pcf[1]
				X	100	1-3-4 (8)	Qu Test Results UCS = 2.25 ksf MC = 37.2% γ_{moist} = 113.5 pcf	PP = 1.50 tsf	MC = 34.6% γ_{sat} = 117 pcf[1]
		Bottom of borehole at 19.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING T-20-20

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 6

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 4
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Howard N. Gotschall II
Professional Engineer
PE-2004040784

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-104 (404)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 4/New Wall 1
Bent:
Station: 817+99.7
Offset: 27.0 R
Elevation: 411.8
Requested Station: 817+99.7
Requested Offset: 33.4 R
Requested Elevation: 410.9
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884376
Easting: 851482.1
Requested Northing: 884375.2
Requested Easting: 851478
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/12/19-09/12/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-7.1' Brown, LEAN CLAY with fine sand, medium stiff to stiff, moist	410						
					53	2-3-4 (9)		PP = 1.25 tsf	M/C = 20.8% γ_{sat} = 129 pcf(1) LL = 40 PL = 18
5					87	1-3-3 (8)		PP = 1.00 tsf	
		7.1-16.5' Gray, FAT CLAY, medium stiff to stiff, moist	405						
					100	1-1-2 (4)		PP = 1.00 tsf	M/C = 34.9% γ_{sat} = 116 pcf(1) LL = 53 PL = 21
10					100	1-2-2 (5)		PP = 1.50 tsf	
			400						
					100	1-2-4 (8)		PP = 1.50 tsf	
15					100	0-1-4 (6)		PP = 1.75 tsf	
		Bottom of borehole at 16.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-103 (406)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 4/New Wall 1
Bent:
Station: 818+49.7
Offset: 27.0 R
Elevation: 413.1
Requested Station: 818+49.7
Requested Offset: 33.6 R
Requested Elevation: 411.9
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884326.9
Easting: 851472
Requested Northing: 884326.4
Requested Easting: 851467
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/12/19-09/12/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-5.4' Brown, LEAN CLAY, soft to medium stiff, moist	410						
					33	2-2-2 (5)		PP = 0.50 tsf	LL = 39 PL = 18
5					80	1-1-2 (4)		PP = 0.50 tsf	
		5.4-16.5' Gray, FAT CLAY, soft to medium stiff, moist	405						
					100	1-2-3 (6)		PP = 1.00 tsf	
10					100	0-1-2 (4)		PP = 0.75 tsf	
			400						
					100	0-1-3 (5)		PP = 2.00 tsf	
15					100	1-1-3 (5)		PP = 0.75 tsf	
		Bottom of borehole at 16.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING V-19-104(404) BORING DATA BORING V-19-103(406)

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 6

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 5
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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105 WEST CAPITOL
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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-102 (408)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 4/New Wall 1
Bent:
Station: 818+99.7
Offset: 27.0 R
Elevation: 414.2
Requested Station: 818+99.7
Requested Offset: 33.6 R
Requested Elevation: 412.9
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884277.3
Easting: 851461.8
Requested Northing: 884277.7
Requested Easting: 851456.3
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/12/19-09/12/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-2.1' Brown, LEAN CLAY, moist							
		2.1-5.4' Brown, SAND, very loose to loose, moist, fine grained, poorly graded	410	X	33	1-1-2 (4)			
5		5.4-16.5' Gray, FAT CLAY, medium stiff to stiff, moist		X	73	1-1-5 (8)		PP = 0.75 tsf	M/C = 39.4% γ_{wet} = 113 pcf(1) LL = 55 PL = 21
			405	X	100	1-2-5 (9)		PP = 2.00 tsf	
10				X	100	2-3-5 (10)		PP = 1.75 tsf	
			400	X	100	1-2-3 (6)		PP = 1.50 tsf	
15				X	100	1-2-3 (6)		PP = 1.75 tsf	
		Bottom of borehole at 16.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING V-19-102(408)

BORING DATA

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 6

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

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DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 6
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-001

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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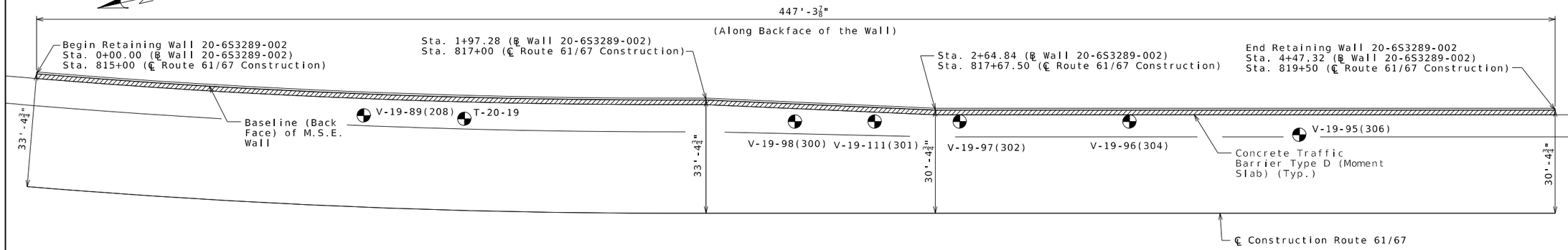
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SEC/SUR 2977 TWP 41N RGE 6E

447'-3⅞" MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM



PLAN
PROPOSED MSE WALL NO. 20-6S3289-002

Notes: Horizontal dimensions are measured along baseline (back face) of wall.

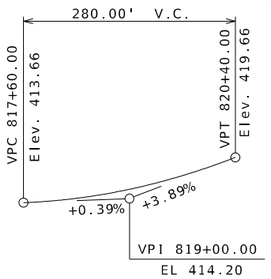
Coping and Leveling Pad not shown for clarity.

◓ Indicates location of borings.

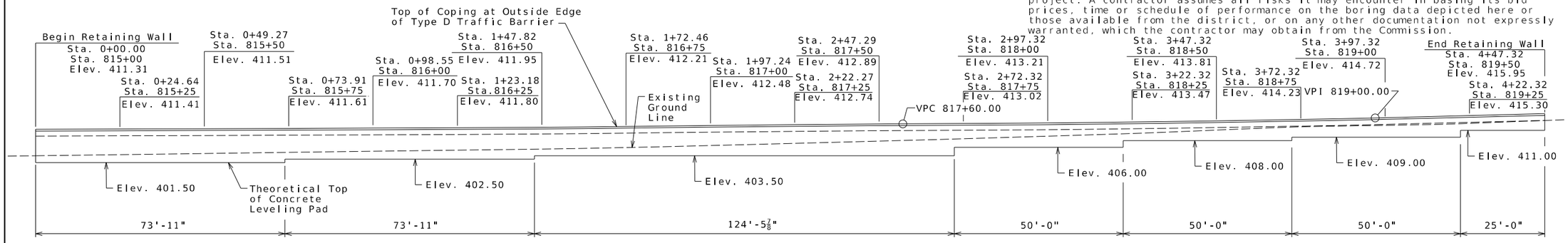
Notice and Disclaimer Regarding
Boring Log Data

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, are shown on Sheets No. 4-6 and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.



VERTICAL CURVE DATA



DEVELOPED ELEVATION

Notes: Horizontal dimensions are measured along baseline (back face) of wall.

Leveling Pad not shown for clarity.

Stationing along the wall is along baseline (back face) of wall.

Wall contractor shall show the following items on the design drawings and/or on the fabricator shop drawings.

1. Leveling pad horizontal.
2. Leveling pad length and step elevations shall be based on wall manufacturer's recommendation. Top of leveling pad elevations shall not be higher than theoretical top of leveling pad elevations shown on these plans.

Estimated Quantities		
Item		Total
Mechanically Stabilized Earth Wall Systems	sq. foot	3600
Aesthetic Concrete Stain	lump sum	1

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

MSE Wall Systems Data Table					
Proprietary Wall Systems		Combination Wall Systems			
Manufacturer	System	Facing Unit Manufacturer	Facing Unit	Geogrid Manufacturer	Geogrid

MSE Wall Systems Data Table is to be completed by MoDOT construction personnel to record the manufacturer of the proprietary wall system or the manufacturers of the combination wall system that was used for constructing the MSE wall.

Sheet No. 1 of 7

Horizontal Curve Information

CURVE PRUS61_9
PI 813+52.90
PC 810+11.22
PT 816+89.63
Δ 16° 54' 00.0" (LT)
D 2° 29' 28.0"
L 678.41'
T 341.69'
R 2,300.00'

Bench Marks (NAVD 88 Datum)

Control Point #7
Rebar North of Scenic Dr. on East Side of Route 61
N 884298.730
E 851593.512
Elev. 415.74

M.S.E. RETAINING WALL ALONG ROUTE 61/67

STATE ROAD (ROUTE 61/67) FROM ST. LOUIS CO. LINE TO FESTUS
ABOUT 1 MILE WEST OF HERCULANEUM
PROJECT NO. STA. 815+00 (ROUTE 61/67)
JOB NO. J6S3289

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 1
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION	DATE

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Howard N. Gotschall II
Professional Engineer
PE-2004000786

General Notes:

Design Specifications:

2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Ed.)
Seismic Design Category = C (Seismic Zone - 3) (No Seismic Analysis)
Design earthquake response spectral acceleration coefficient at 1.0 second period, S_{D1}<0.15 = 0.369g
Acceleration Coefficient (effective peak ground acceleration coefficient), A_s= 0.338g

Design Loading:

For strength limit state and extreme event limit state, the wall designer to confirm that the minimum Capacity to Demand Ratio (CDR) for bearing, sliding, overturning, eccentricity, and internal stability is greater than or equal to 1.0. MSE wall designer shall include this note on shop drawings.

For Extreme Event I limit state, the wall designer shall design wall for γEQ = 0.5

Φ_b = 22° and Unit weight, γ_b = 120 pcf for retained backfill material to be retained by the mechanically stabilized earth wall system.

Φ_f = 22° for unimproved foundation ground where wall is to bear.

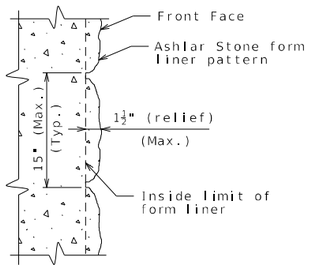
For unimproved foundation ground, factored bearing resistance is 3.0 ksf for strength limit state and factored bearing resistance is 4.0 ksf for extreme event limit state.

The maximum applied factored bearing stress for the strength and extreme event limit state(s) at the foundation level shall be shown on the shop drawings and shall be less than the factored bearing resistance.

Factored bearing resistance shall be used as shown on the plans. No adjustments are allowed.

Contractor shall include design Φ_r (actual $\Phi_r \geq 34°$) and the total unit weight, γ_r, for the select granular backfill (reinforced backfill and wedge area backfill) for structural systems on shop drawings. Contractor shall identify source of select granular backfill material, submit proctor in accordance with AASHTO T 99 (ASTM D698) and gradation with the shop drawings. When backfill material is too coarse to develop a proctor curve the contractor shall determine the maximum dry density (relative density) in accordance with ASTM D4253 and ASTM D4254 and assume percent passing the 200 sieve for optimum water content.

Total unit weight, γ_r = (95% compaction) x (maximum dry density) x (1 + optimum water content)



FORM LINER DETAIL
(PRECAST MODULAR PANEL WALL)

Notes for Form Liners:

The cost of form liners for MSE wall systems, complete in place, will be considered completely covered by the contract unit price for Mechanical Stabilized Earth Wall System.

Form liner shall be constructed in accordance with Special Provisions.

The following is a list of form liner manufacturers and types which may be used. Depth of relief for all form liner patterns shall vary up to 1 1/2". The height of any single 'stone' shall be 15" maximum.

- Scott System, Inc.: Form liner pattern #167 "Ashlar Stone"
- Fitzgerald Formliners: Form liner pattern #16986 "Ashlar Stone"
- Greenstreak: Form liner pattern #330 "Ashlar Stone"
- Spec Formliners: Form liner pattern #1515 "Ashlar Stone"
- Customrock: Form liner pattern #12020 "Tollway Ashlar"
- An approved equal

Design Φ_r = 34° for the select granular backfill (reinforced backfill) for structural systems.

No-Seismic-Analysis provisions may be considered for MSE wall design in accordance with LRFD 11.5.4.2.

Use default values for the pullout friction factor, F*, in accordance with LRFD figure 11.10.6.3.2-2 and default value for scale effect correction factor, α, in accordance with LRFD table 11.10.6.3.2-1. For approved steel strips not shown in LRFD figure 11.10.6.3.2-2, use F* ≤ 2.0 at zero depth and F* ≤ Tan Φ_r at 20 feet depth and Φ_r design = 34°. F* and α values shall be shown on the shop drawings.

Design Unit Stresses:

All concrete for leveling pad and coping shall be Class B or B-1 with f'c = 4000 psi.

The minimum compressive strength of concrete for precast modular panel shall be 4,000 psi in accordance with Sec 1052.

Excavation:

Excavation quantities and pay items are given on the roadway plans. Excavation quantities are based on a soil reinforcement length of 0.95H or a minimum of 8 ft. The soil reinforcement length may vary based upon the wall design selected by the contractor. Plan excavation quantities will be paid regardless of any actual quantities removed based on the soil reinforcement length and design selected.

The MSE wall system shall be built vertical.

The MSE wall system shall be built in accordance with Sec 720.

The MSE wall system shall be a precast modular panel wall system.

Precast modular panel, drycast modular block, wetcast modular block and coping (or capstone) reinforcement shall be epoxy coated.

A filter cloth meeting the requirements for a Separation Geotextile material shall be placed between the select granular backfill for structural systems and the backfill being retained by the mechanically stabilized earth wall system.

Coping shall be required on this structure. When CIP coping sections extend beyond the limits of a single panel, bond breaker (roofing felt or other approved alternate) between wall panel and coping is required. Coping joints shall use 3/4-inch chamfers and shall be sealed with 3/4-inch joint filler. Coping reinforcement shall terminate 1 1/2-inch minimum from face of coping joint.

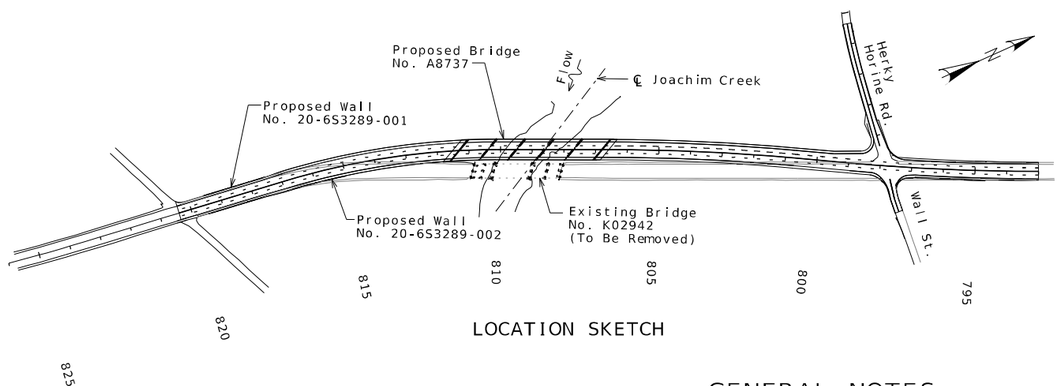
The contractor shall be solely responsible to coordinate construction of the wall with bridge and roadway construction and ensure that the bridge and roadway construction, resulting or existing obstructions, shall not impact the construction or performance of the wall. Soil reinforcement shall be designed and placed to avoid damage by pile driving, guardrail post installation, utility and sign foundations. (See Roadway and Bridge plans.)

Minimum 18" wide geotextile strips shall be centered at vertical and horizontal joints of panel. Geotextile material shall be adhered to back face of panel using an adhesive compound supplied by the manufacturer. All edges of each fabric strip shall provide a positive seal. A minimum 12" overlap shall be provided between spliced filter fabric.

Aluminized soil reinforcement shall have edges coated with coating material per manufacturer.

Soil reinforcement shall be spaced to avoid roadway drop inlet behind wall.

Upper two layers of soil reinforcement shall be extended 3 feet beyond the lower layers when wall height is greater than or equal to 10 feet.



LOCATION SKETCH

Designed:	BWC	12/08/24
Detailed:	BWC	12/08/24
Checked:	HNG	01/15/25

Note: This drawing is not to scale. Follow dimensions.

GENERAL NOTES
FOR MSE WALL NO. 20-6S3289-002

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 03/31/25
ROUTE: 61/67 | STATE: MO
DISTRICT: BR | SHEET NO.: 2
COUNTY: JEFFERSON
JOB NO.: J6S3289
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: 20-6S3289-002

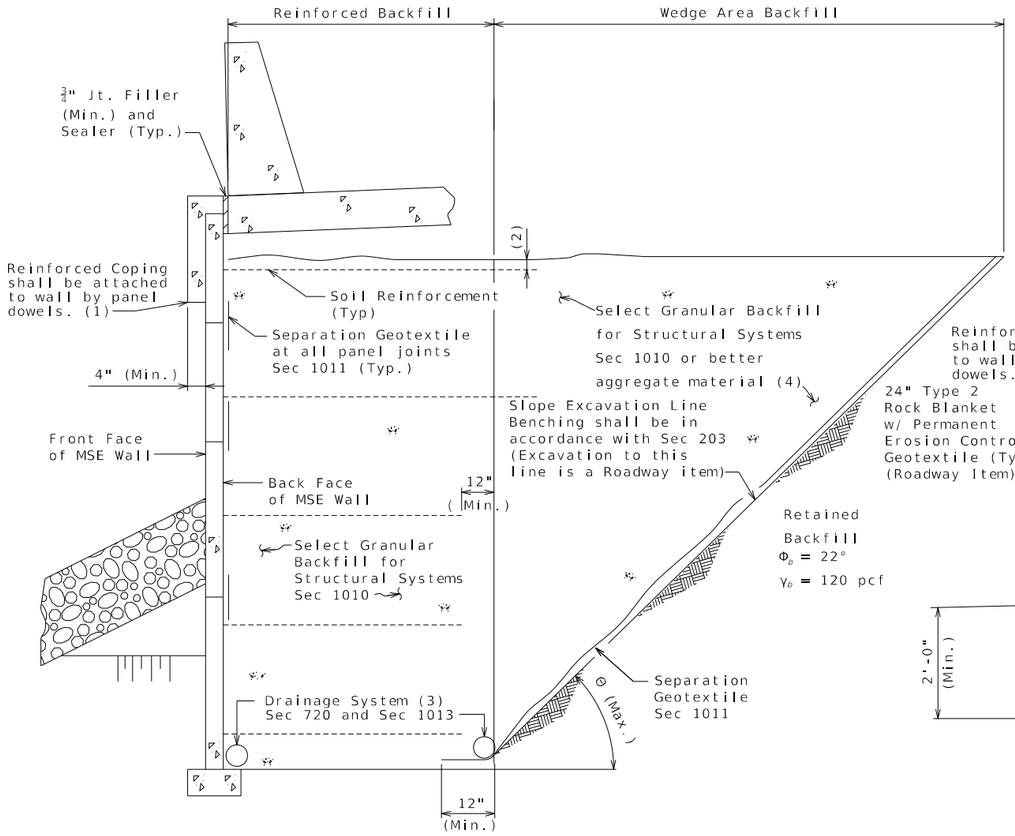
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DESCRIPTION | DATE

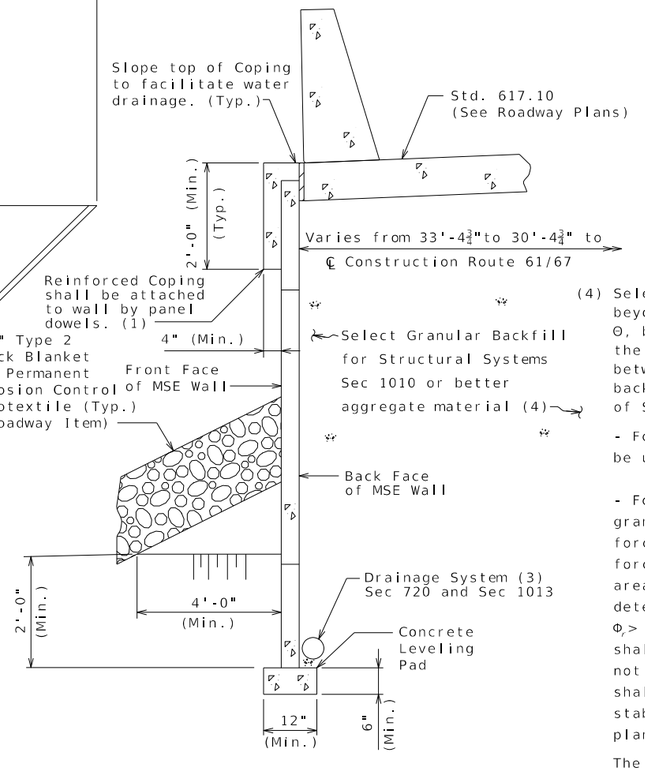
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Professional Engineer
PE-2004000786



TYPICAL SECTION THRU
LARGE BLOCK WALL SHOWING FILTER CLOTH



TYPICAL SECTION THRU PRECAST
MODULAR PANEL WALL (GENERAL)

(4) Select granular backfill shall extend a minimum of 12" beyond the end of all soil reinforcement. Where the angle, Θ, between the retained backfill excavation/fill line and the horizontal is less than 90°, the wedge area backfill between Θ and 90°shall be filled with select granular backfill for structural systems meeting the requirements of Section 1010.

- For 45° < Θ ≤ 90°, properties for retained backfill shall be used for active force computations.

- For Θ ≤ 45°, contractor shall have the option to use select granular backfill, Φ_r, or better aggregate material for active force computations in the wedge area backfill. For active force computations, the angle of internal friction for wedge area backfill material, Φ_r, shall be limited to 34° unless determined otherwise in accordance with Section 1010. If Φ_r > 34° is desired for wedge area backfill then test report shall be submitted with manufacturer's design plans. Φ_r shall not be greater than 40°. Final configuration of this option shall be sent to Geotechnical Section for a new overall global stability analysis. Design Φ_r° shall be shown on manufacturer's plans if used.

The slope excavation line shall be benched and separation geotextile shall be placed between the retained backfill and either select granular backfill or better aggregate material, and between the select granular backfill and better aggregate material.

(1) Inverted U-shape reinforced capstone may be used in lieu of coping. Panel dowels for level-up concrete shall be required, and provided by manufacturer. The dowels shall be field trimmed to clear the capstone by a minumum of 1 1/2 inches and a maximum of 2 1/2 inches.

(2) Topmost layer of reinforcement shall be fully covered with select granular backfill for structural systems, as approved by the wall manufacturer, before placement of the Separation Geotextile.

(3) Minimum 6" diameter perforated PVC or PE pipe.

Manufacturer shall show drain details on design plans to be submitted as shown on MoDOT MSE wall plans and/or roadway plans.

Contractor shall modify the drain details as shown if it will improve flow as may be the case for stepped leveling pad, and for an uneven ground line (approval of the engineer required).

Show range of acceptable theta (Θ) angle on shop drawings which must be consistent with design computations and proposed construction of wall. Show active force computation properties ($\Phi° = \Phi_r°$ and $\gamma = \gamma_r$ or $\Phi° = \Phi_b°$ and $\gamma = \gamma_b$) on shop drawings and in design computations. Coordination between wall designer (manufacturer) and contractor is required before shop drawing submittal.

Material Properties Used in Design						
Reinf. Fill/Select Granular Backfill			Active Force Computations			Foundation
Φ_r°	γ_r (pcf)		Φ°	γ (pcf)		Φ_f°

MSE Wall designer shall include table on shop drawings and provide values used in the design computations. Effects of cohesion shall be ignored unless approved by the engineer.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

DETAILS FOR MSE WALL NO. 20-6S3289-002

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004000786
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67 | STATE MO
DISTRICT BR | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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Professional Engineer
PE-2004000786

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-89 (208)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 2/New Wall 2
Bent:
Station: 815+98.2
Offset: 27.0 L
Elevation: 404.4
Requested Station: 815+98.2
Requested Offset: 38.3 L
Requested Elevation: 405.4
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884648
Easting: 851621.8
Requested Northing: 884639.3
Requested Easting: 851635.2
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/03/19-09/03/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-11.3' Gray, LEAN CLAY with fine sand, soft to stiff, moist	400		0	2-2-2 (5)			
5					100	1-1-2 (4)		PP = 0.25 tsf	MC = 32.3% γ_{sat} = 118 pcf[1] LL = 44 PL = 22
			395		80	1-3-2 (6)		PP = 1.25 tsf	
10					167	2-2-3 (6)		PP = 2.50 tsf	
		11.3-11.5' Shale, gray, soft Bottom of borehole at 11.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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Missouri Department of Transportation
Construction and Materials

BORING NO. T-20-19
Page 1 of 1

Job No.: J6S3289-Walls
Design: New Wall 2
Bent:
Station: 816+28.2
Offset: 27.0 L
Elevation: 406.2
Requested Station:
Requested Offset:
Requested Elevation:
Drill No.: G-9577

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884530
Easting: 851575.4
Requested Northing:
Requested Easting:
Equipment: CME 45 ,Split-Spoon Sampler, Shelby Tube
Location Note: Additional boring for new alignment
Hammer Efficiency: 70%

Route: 61
Location:
Operator: Gary Degraffenreid
Date of Work: 10/07/20-10/07/20
Depth to Water: 7.7
Depth Hole Open:
Time Change: 0 hours
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.7' ASPHALT							
		0.7-12.5' Brown and gray, FAT CLAY, medium stiff to stiff, moist to wet	405						
5			400		76		Qu Test Results UCS = 3.21 ksf MC = 39.7% γ_{moist} = 113.6 pcf	PP = 1.50 tsf Torvane = 0.73 tsf	LL = 88 PL = 34 MC = 40.9% γ_{sat} = 112 pcf[1]
					93	1-2-4 (7)	Qu Test Results UCS = 2.53 ksf MC = 39.7% γ_{moist} = 113.5 pcf	PP = 2.00 tsf	MC = 41.8% γ_{sat} = 112 pcf[1]
10		10.5-11.1' sand pockets	395		80		Qu Test Results UCS = 2.03 ksf MC = 46.4% γ_{moist} = 110.6 pcf	PP = 1.25 tsf Torvane = 0.60 tsf	LL = 88 PL = 37 MC = 40.1% γ_{sat} = 113 pcf[1]
		12.5-22.5' Dark gray, FAT CLAY scattered fine sand, scattered silt, medium stiff to stiff, wet			100	1-2-4 (7)		PP = 1.25 tsf	MC = 40.4% γ_{sat} = 113 pcf[1]
15			390		100		Qu Test Results UCS = 2.53 ksf MC = 33.5% γ_{moist} = 116.8 pcf	PP = 1.50 tsf Torvane = 0.70 tsf	LL = 55 PL = 24 MC = 33.6% γ_{sat} = 117 pcf[1]
					100	0-2-2 (5)		PP = 0.75 tsf	MC = 40.9% γ_{sat} = 112 pcf[1]
20			385		80		Qu Test Results UCS = 1.97 ksf MC = 41.9% γ_{moist} = 113 pcf	PP = 2.00 tsf Torvane = 0.55 tsf	LL = 71 PL = 27 MC = 36.2% γ_{sat} = 115 pcf[1]
		Bottom of borehole at 22.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING V-19-89(208) BORING DATA BORING T-20-19

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions. Sheet No. 4 of 7

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 4
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer
PE-2004040784

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-98 (300)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 3/New Wall 2
Bent:
Station: 817+26.2
Offset: 27.0 L
Elevation: 408.2
Requested Station: 817+26.2
Requested Offset: 35.9 L
Requested Elevation: 407.6
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884436.6
Easting: 851549.1
Requested Northing: 884431.5
Requested Easting: 851561.4
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/05/19-09/05/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-2.6' Brown, LEAN CLAY, stiff, moist							
		2.6-14.0' Gray, FAT CLAY, medium stiff to stiff, moist	405		73	3-3-5 (10)		PP = 1.75 tsf	
5					100	3-4-5 (11)		PP = 2.25 tsf	MC = 33.6% γ_{tot} = 117 pcf[1] LL = 73 PL = 29
			400		80	2-3-4 (9)		PP = 1.50 tsf	
10					100	2-2-4 (8)		PP = 2.00 tsf	
			395		100	2-2-4 (8)		PP = 0.75 tsf	
		Bottom of borehole at 14.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-111 (301)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 3/New Wall 2
Bent:
Station: 817+49.7
Offset: 27.0 L
Elevation: 409.1
Requested Station: 817+74.7
Requested Offset: 34.8 L
Requested Elevation: 406.9
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884414.4
Easting: 851542.8
Requested Northing: 884409.3
Requested Easting: 851555.3
Equipment: Acker Renegade ,Split-Spoon Sampler, Shelby Tube
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/26/19-09/26/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-7.5' Brown, FAT CLAY, stiff, moist							
			405						
5					56			PP = 1.50 tsf Torvane = 0.65 tsf	MC = 33.6% γ_{tot} = 117 pcf[1] MC = 36.8% LL = 73 PL = 27
		7.5-12.5' Brown and gray, FAT CLAY, stiff, moist	400		87	1-3-4 (9)		PP = 1.50 tsf	
10					60			PP = 1.50 tsf Torvane = 0.80 tsf	MC = 33.8% γ_{tot} = 117 pcf[1] MC = 35.8% LL = 58 PL = 21
		Bottom of borehole at 12.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING V-19-98(300) BORING DATA BORING V-19-111(301)

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 7

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 5
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Professional Engineer
PE-2004040784

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Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-97 (302)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 3/New Wall 2
Bent:
Station: 817+74.7
Offset: 27.0 L
Elevation: 410.3
Requested Station: 817+74.7
Requested Offset: 33.6 L
Requested Elevation: 408.3
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884389.5
Easting: 851538
Requested Northing: 884385.1
Requested Easting: 851549
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/05/19-09/05/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT	410						
		1.2-2.2' Brown, LEAN CLAY, medium stiff, moist							
		2.2-14.0' Gray, LEAN CLAY, medium stiff to stiff, moist			27	3-3-3 (8)		PP = 1.25 tsf	
5			405		87	2-2-3 (6)		PP = 1.25 tsf	
					100	2-3-3 (8)		PP = 1.75 tsf	
10			400		100	2-3-4 (9)		PP = 1.75 tsf	
					100	1-2-3 (6)		PP = 1.25 tsf	
		Bottom of borehole at 14.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

LETTER BOREHOLE - MODOT 20150728.GDT - 12/10/20 17:00 - Z:\SG\GINT\PROJECT FILES\J6S3289 WALLS_ON HOLD.GPJ

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-96 (304)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 3/New Wall 2
Bent:
Station: 818+24.7
Offset: 27.0 L
Elevation: 411.0
Requested Station: 818+24.7
Requested Offset: 33.1 L
Requested Elevation: 409.8
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884340.7
Easting: 851527
Requested Northing: 884336.5
Requested Easting: 851537.5
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/05/19-09/05/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT	410						
		1.2-2.1' Brown, LEAN CLAY, moist							
		2.1-14.0' Dark gray, LEAN CLAY, soft to stiff, moist			27	3-2-3 (6)		PP = 1.00 tsf	
5			405		100	1-1-3 (5)		PP = 0.25 tsf	MC = 29.7% γ_{tot} = 121 pcf (1) LL = 48 PL = 21
					100	2-2-3 (6)		PP = 1.25 tsf	
10			400		100	2-2-4 (8)		PP = 1.25 tsf	
					100	1-3-5 (10)		PP = 1.25 tsf	
		Bottom of borehole at 14.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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LETTER BOREHOLE - MODOT 20150728.GDT - 12/10/20 17:00 - Z:\SG\GINT\PROJECT FILES\J6S3289 WALLS_ON HOLD.GPJ

BORING V-19-97(302) BORING DATA BORING V-19-96(304)

Note: For location of borings, see Sheet No. 1.

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: This drawing is not to scale. Follow dimensions. Sheet No. 6 of 7

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 6
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Hanson Professional Services Inc.
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St. Louis, Missouri 63101
Professional Engineer 001632
www.hanson-inc.com
314.770.0467

Howard N. Gotschall II
Professional Engineer
PE-2004040784

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Missouri Department of Transportation
Construction and Materials

BORING NO. V-19-95 (306)
Page 1 of 1

Job No.: J6S3289-Walls
Design: Old Wall 3/New Wall 2
Bent:
Station: 818+77.7
Offset: 23.1 L
Elevation: 412.1
Requested Station: 818+74.7
Requested Offset: 33.1 L
Requested Elevation: 411.4
Drill No.: G-9667

County: Jefferson
Skew:
Logged By: Matthew Kraus
Northing: 884291.8
Easting: 851516.6
Requested Northing: 884287.7
Requested Easting: 851526.8
Equipment: Acker Renegade ,Split-Spoon Sampler
Location Note: Inaccessible due to terrain and utilities
Hammer Efficiency: 76%

Route: 61
Location:
Operator: Kenny Mathews
Date of Work: 09/05/19-09/05/19
Depth to Water:
Depth Hole Open:
Time Change:
Drilling Method: Hollow Stem Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.2' ASPHALT							
		1.2-4.1' Brown, LEAN CLAY, medium stiff, moist	410						
				X	0	2-2-4 (8)			
5		4.1-14.0' Gray, LEAN CLAY, medium stiff to stiff, moist							
				X	87	2-2-4 (8)		PP = 0.75 tsf	M/C = 30.2% γ_{DE} = 120 pcf(1) LL = 48 PL = 22
			405						
				X	100	1-2-3 (6)		PP = 1.50 tsf	
10									
				X	100	1-2-3 (6)		PP = 1.75 tsf	
			400						
				X	100	2-2-4 (8)		PP = 1.50 tsf	
		Bottom of borehole at 14.0 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri East **Coordinate Proj. Factor:**
Coordinate Datum: NAD 83 (CONUS) **Coordinate Units:** U.S. Survey Feet

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BORING V-19-95(306)

BORING DATA

Designed: BWC 12/08/24
Detailed: BWC 12/08/24
Checked: HNG 01/15/25

Note: For location of borings, see Sheet No. 1.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 7

BORINGS

STATE OF MISSOURI
HOWARD NELSON GOTSCHALL II
NUMBER PE-2004040784
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 03/31/25
ROUTE 61/67
STATE MO
DISTRICT BR
SHEET NO. 7
COUNTY JEFFERSON
JOB NO. J6S3289
CONTRACT ID.
PROJECT NO.
BRIDGE NO. 20-6S3289-002

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Professional Engineer 001632
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314.770.0467
Howard N. Gotschall II
Professional Engineer
PE-2004040784

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESIGN DESIGNATION

A.A.D.T. - 2018 = 11,085
A.A.D.T. - 2039 = 13,526
T = 2.8%
V = 35-45 M.P.H.
D = 49.4%
D.H.V. = 12%

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

NORMAL RIGHT-OF-WAY WILL BE ACQUIRED FOR THIS PROJECT.

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

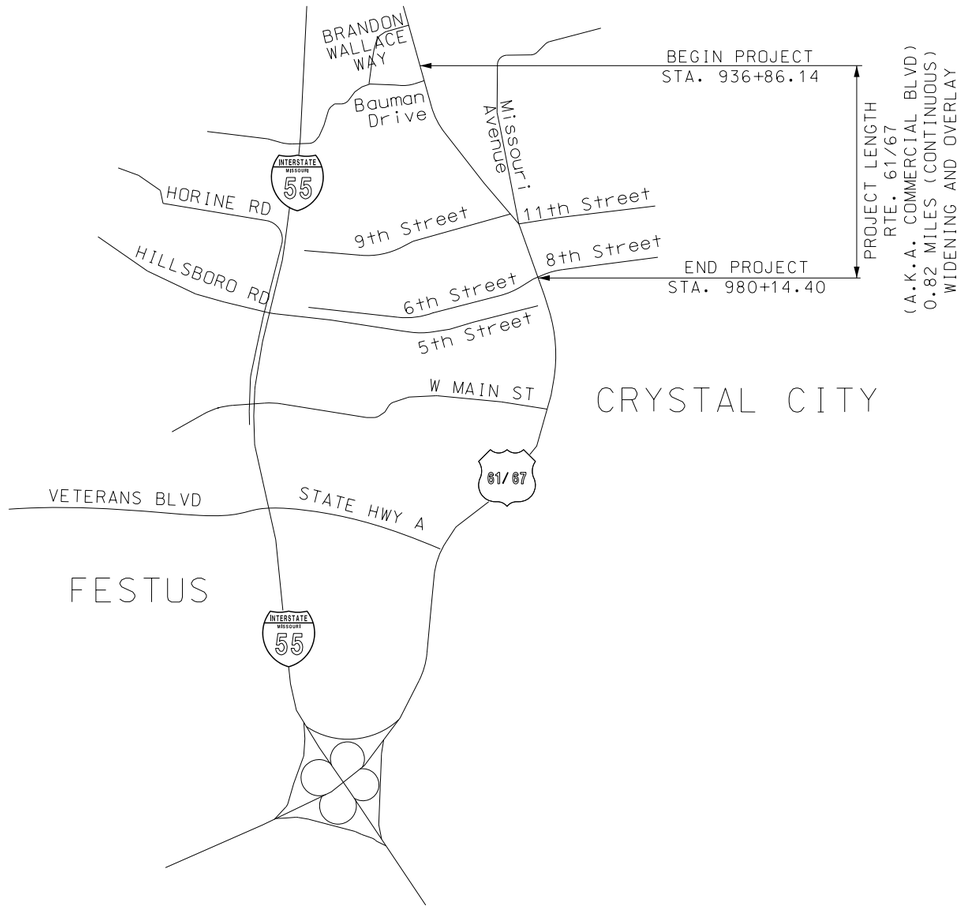
PLANS FOR PROPOSED

STATE HIGHWAY

JEFFERSON COUNTY

FINAL PLANS

T41N.R6E



NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

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INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (10 SHEETS)	3
PLAN (PL)	4-14
PROFILE (PR)	15-23
RIGHT-OF-WAY (RW)	24-34
REFERENCE POINTS (RP)	35
COORDINATE POINTS (CP)	36
SPECIAL SHEETS (SS)	37-39
TRAFFIC CONTROL SHEETS (TC)	40-49
EROSION CONTROL SHEETS (EC)	50-54
SIGNING & PAVEMENT MARKING (SN)(PM)	55-67
CULVERT SECTIONS (CS)	68-71
CROSS SECTIONS (XS)	XS 1-28

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 936+86.14	
END OF PROJECT	STA. 980+14.40	
APPARENT LENGTH	4,328.26	FEET

EQUATIONS AND EXCEPTIONS:
STA. 946+86.36 BK = STA. 946+85.52 AH
STA. 971+19.60 BK = STA. 971+23.66

TOTAL CORRECTIONS	-3.22	FEET
NET LENGTH OF PROJECT	4,325.04	FEET
STATE LENGTH	0.82	MILES

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

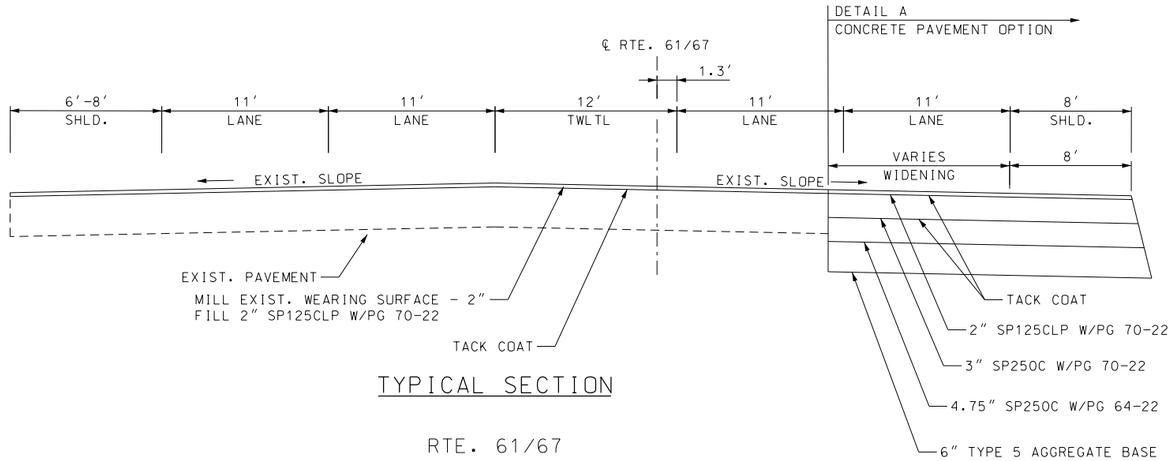
DATE PREPARED: 4/9/2025
ROUTE: 61/67 | STATE: MO
DISTRICT: SL | SHEET NO.: 1
COUNTY: JEFFERSON
JOB NO.: J6S3391
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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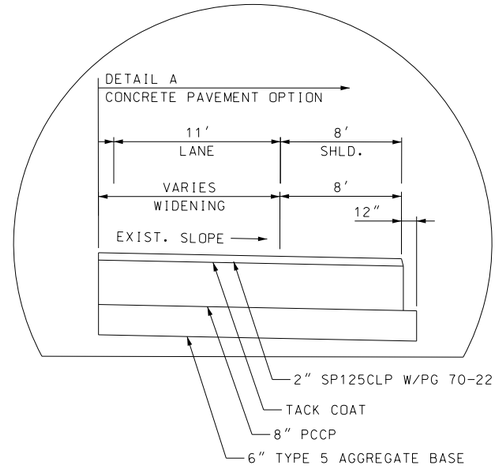
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JEFFERSON CITY, MO 65102
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SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



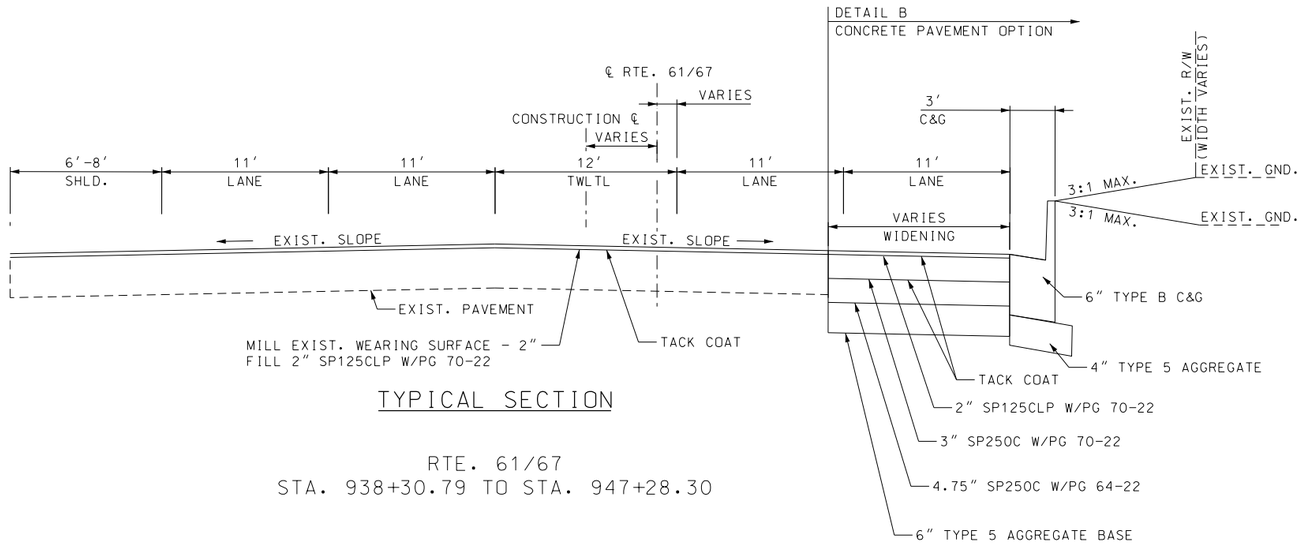
TYPICAL SECTION

RTE. 61/67
STA. 936+86.14 TO STA. 938+30.79



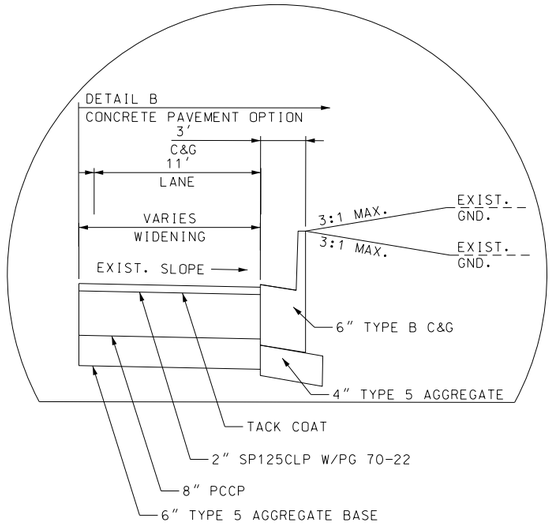
DETAIL A

CONCRETE PAVEMENT OPTION & SHOULDER



TYPICAL SECTION

RTE. 61/67
STA. 938+30.79 TO STA. 947+28.30



DETAIL B

CONCRETE PAVEMENT OPTION & C&G

OPTIONAL PAVEMENT

2″ SP125CLP W/PG 70-22	1.927 TON/C.Y.
8″ PCCP (15 FT. JOINTS AND 1 1/4″ DOWELS)	
SEE DETAILS A & B	

APPLICATION RATES

SP125C W/PG 70-22:	1.927 TON/C.Y.
SP250C W/PG 70-22:	1.946 TON/C.Y.
SP250C W/PG 64-22:	1.946 TON/C.Y.
TACK COAT (MILLED SURFACE):	0.10 GAL/S.Y.
TACK COAT (BETWEEN LIFTS):	0.05 GAL/S.Y.

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TYPICAL SECTION
SHEET
1 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

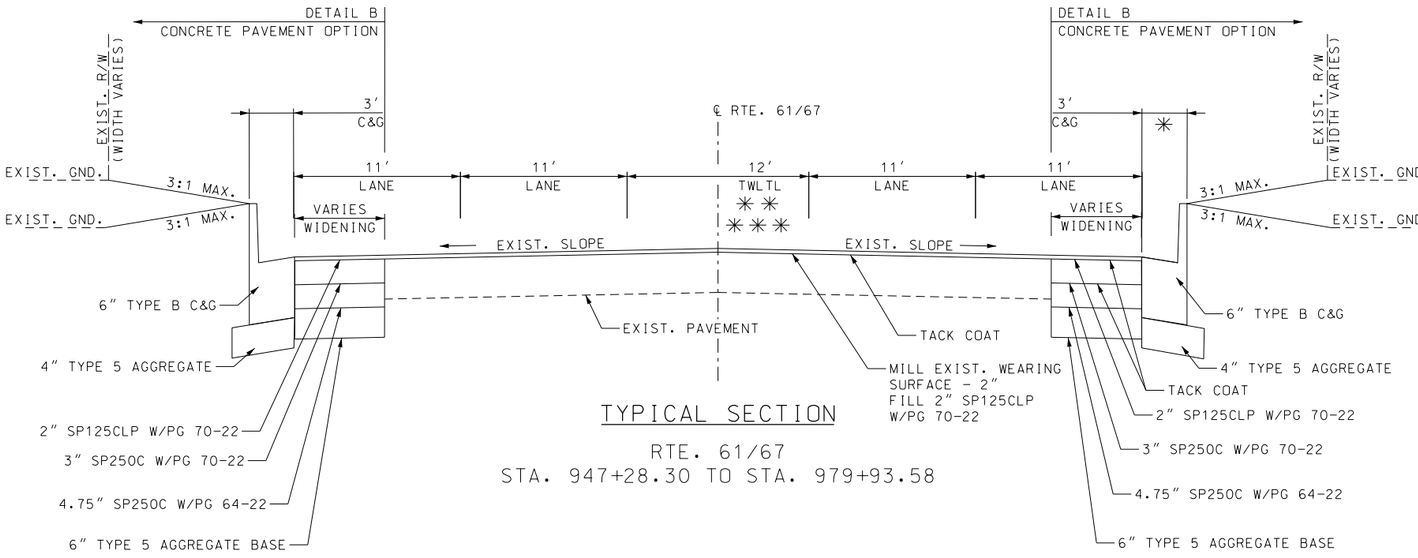
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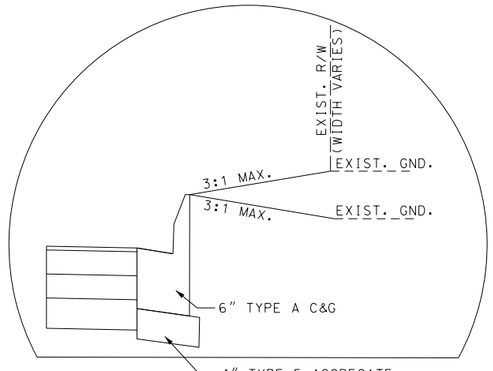
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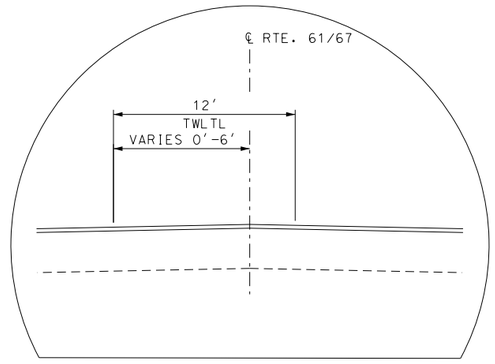
TYPICAL SECTION

RTE. 61/67

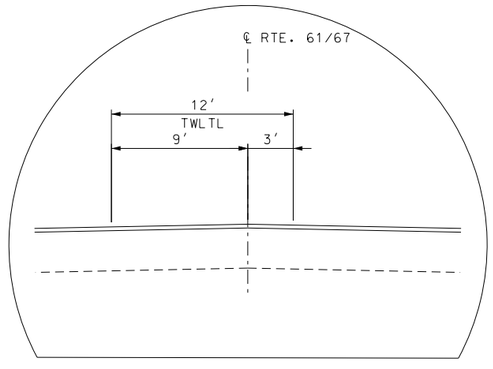
STA. 947+28.30 TO STA. 979+93.58



✳ STA. 966+10.03 TO STA. 968+15.74



✳✳ TAPER TRANSITION BETWEEN
STA. 947+42.30 TO STA. 949+98.11



✳✳✳ STA. 957+20.83 TO STA. 960+79.34
TAPER TRANSITION
STA. 956+00.87 TO STA. 957+20.97
STA. 960+79.30 TO STA. 961+99.30

TYPICAL SECTION
SHEET
2 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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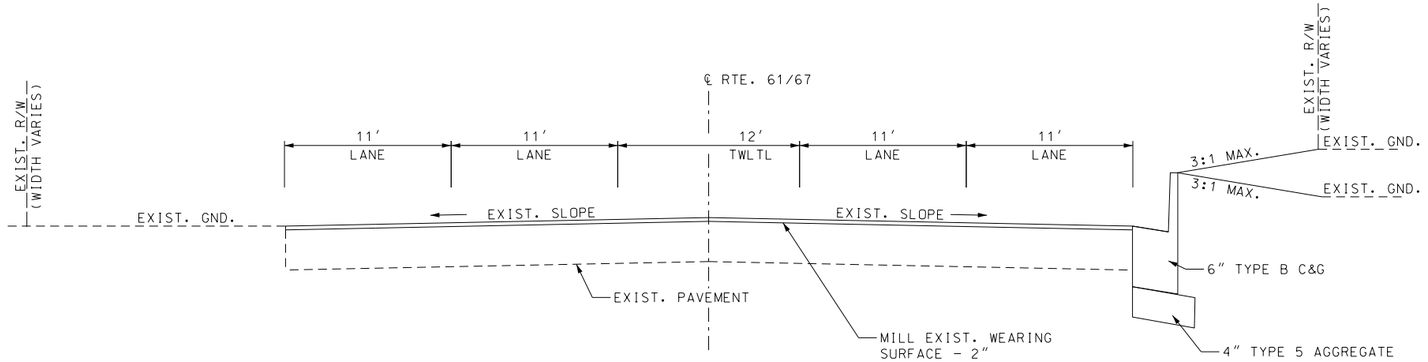
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
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TYPICAL SECTION

RTE. 61/67
STA. 979+93.58 TO STA. 980+14.40

TYPICAL SECTION
SHEET
3 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	2

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

REMOVAL OF IMPROVEMENTS = (1 LUMP SUM)

MOBILIZATION = (1 LUMP SUM)

CONTRACTOR FURNISHED SURVEYING & STAKING = (1 LUMP SUM)

POT HOLING UTILITY FACILITIES = (14 EACH)

REMOVAL OF IMPROVEMENTS (SIGNING ITEMS)

PLAN SHEET NO (_ OF 11)	STATION	ROADWAY	LOCATION OFFSET (FT)	ITEM TO BE REMOVED
3	942+93.15	US 61/67	21.54 RT	SIGN, POST
4	945+02.55	US 61/67	32.56 RT	SIGN, POST
4	946+30.47	US 61/67	36.20 RT	SIGN, POST
4	946+38.19	US 61/67	31.30 RT	SIGN, POST
4	946+74.70	US 61/67	32.57 LT	SIGN, POST
4	947+99.19	US 61/68	35.20 LT	SIGN, POST
4	948+61.53	US 61/67	31.49 RT	SIGN, POST
4	949+39.70	US 61/67	31.99 RT	SIGN, POST
4	949+93.45	US 61/67	32.28 RT	SIGN, POST
5	953+76.17	US 61/67	35.42 RT	SIGN, POST
8	971+41.25	US 61/67	34.95 LT	SIGN, POST
10	977+93.10	US 61/67	26.72 LT	SIGN, POST
10	977+21.02	US 61/67	33.33 RT	SIGN, POST
10	977+93.06	US 61/67	31.57 RT	SIGN, POST

REMOVAL OF IMPROVEMENTS (DRAINAGE ITEMS)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION OFFSET (FT)	ITEM TO BE REMOVED
3	943+48.45		US 61/67	28.66 RT	5 LF RCP 24 IN
4	948+05.34		US 61/67	34.12 LT	GRATE INLET
4	948+22.36		US 61/67	33.64 RT	MANHOLE INLET
4	949+97.23		US 61/67	34.13 LT	GRATE INLET
5	951+30.41	951+95.15	US 61/67	LT / RT	134 LF RCP 24 IN
6	957+92.80		US 61/67	33.50 LT	CURB INLET (D 2-80)
6	957+92.80	958+28.76	US 61/67	33.50 LT	34 LF RCP 24 IN
10	976+55.55		US 61/67	30.52 LT	GRATE INLET
10	975+52.29	976+54.50	US 61/67	LT	103 LF RCP 18 IN
10	976+56.56	977+75.90	US 61/67	LT	120 LF RCP 24 IN
10	977+78.85	977+85.86	US 61/67	LT	7 LF RCP 36 IN
10	977+77.54		US 61/67	LT	10 LF RCP 30 IN
10	977+77.29		US 61/67	26.15 LT	MANHOLE
10	977+77.63		US 61/67	38.57 LT	MANHOLE (PCA 3-55)
10	977+89.52		US 61/67	29.00 LT	CURB INLET (T10 3-50)
10	977+93.25	978+41.51	US 61/67	33.09 LT	49 LF RCP 30 IN
10	978+42.76		US 61/67	31.68 LT	MANHOLE (MH 3-51)
10	978+44.48	979+17.18	US 61/67	LT	73 LF RCP 30 IN
10	979+20.68		US 61/67	31.47 LT	CURB INLET (T10 3-52)
10	979+24.24	979+96.55	US 61/67	LT	73 LF RCP 30 IN
10	977+77.43		US 61/67	LT / RT	56 LF RCP 36 IN
10	977+77.43	97+89.42	US 61/67	RT	17 LF RCP 36 IN
10	977+89.30		US 61/67	46.30 RT	GRATE INLET (DI 3-30)
10	977+92.25	978+50.13	US 61/67	RT	101 LF RCP 36 IN
10	978+61.10	978+82.99	US 61/67	RT	75 LF RCP 36 IN
10	978+82.76	979+45.47	US 61/67	RT	116 LF CMP 72 IN
10	978+61.55		US 61/67	119.99 RT	MANHOLE
10	979+45.22		US 61/67	230.81 RT	END SECTION
10	978+36.24	979+45.23	US 61/67	RT	ABANDON AND GROUT FILL 96 LF CMP 66 IN

ADJUST TO GRADE

PLAN SHEET NO (_ OF 11)	STATION	ROADWAY	LOCATION OFFSET (FT)	WATER VALVE (EA)	GAS VALVE (EA)	PULLBOX (EA)	REMARKS
2	936+93.45	US 61/67	24.95 RT	1			WATER VALVE
3	940+55.30	US 61/67	25.18 RT	1			WATER VALVE
3	940+63.16	US 61/67	27.30 RT	1			WATER VALVE
3	940+63.49	US 61/67	29.00 RT				
3	944+23.91	US 61/67	31.74 RT			1	SPECTRUM
4	946+30.72	US 61/67	34.76 RT			1	SPECTRUM
4	947+34.37	US 61/67	40.91 LT	1			
4	948+36.39	US 61/67	36.21 LT	1			
4	948+46.99	US 61/67	34.61 RT			1	
6	956+38.49	US 61/67	39.14 LT				
6	957+13.03	US 61/67	29.62 RT	1			
6	957+21.07	US 61/67	25.97 RT		1		
6	957+37.92	US 61/67	31.50 RT	1			
6	957+40.84	US 61/67	33.72 RT	1			
6	957+41.87	US 61/67	35.29 RT	1			
6	957+51.98	US 61/67	36.41 LT			1	
6	958+10.98	US 61/67	37.40 LT	1			
6	958+13.00	US 61/67	28.01 RT		1		
6	959+31.26	US 61/67	29.85 RT	1			
6	959+32.13	US 61/67	32.40 RT				
6	959+41.30	US 61/67	35.78 LT	1			
7	963+03.36	US 61/67	35.94 LT		1		
7	964+23.81	US 61/67	29.76 RT	1			
7	964+39.75	US 61/67	33.46 LT	1			
8	967+04.95	US 61/67	34.33 LT	1			
8	968+03.27	US 61/67	29.98 RT	1			
8	968+26.29	US 61/67	30.35 RT	1			
8	968+59.61	US 61/67	33.28 RT	1			
9	971+91.75	US 61/67	38.48 LT	1			
10	978+98.94	US 61/67	40.57 RT	1			
11	980+12.01	US 61/67	40.65 RT	1			
11	980+13.35	US 61/67	41.65 RT	1			
			SUBTOTAL	22	3	4	
			PAY TOTAL	22	3	4	

EROSION CONTROL

EROSION CONTROL PLAN SHEET NO (_ OF 5)	STATION	STATION	ROADWAY	OFFSET (FT)	SILT FENCE (FT)	CURB INLET CHECK (EA)	ALTERNATE DITCH CHECK (EA)	SEDIMENT REMOVAL (CY)	REMARKS
1	927+00	940+00	I-61/67	LT/RT		4	5	9	
2	940+00	953+00	I-61/67	LT/RT		9	7	16	
3	953+00	966+00	I-61/67	LT/RT		8		8	
4	966+00	979+00	I-61/67	LT/RT		13		13	
5	979+00	9+90.00	I-61/67	LT/RT		4		4	
5	971+13	972+75	I-61/67	LT/RT	211				
				SUBTOTAL	211	38	12	50	
				PAY TOTAL	211	38	12	50	

SUMMARY OF QUANTITIES
SHEET 1 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/16/2025 5:18:36 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

REMOVAL OF IMPROVEMENTS (TABLE 1 OF 3)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION OFFSET (FT)	ITEM TO BE REMOVED
2	936+86.14	940+00.00	US 61/67	-	313 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
2	936+86.14	940+00.00	US 61/67	RT	69 SQYD CONCRETE PAVEMENT
2	936+86.14	940+00.00	US 61/67	RT	90 SQYD CONCRETE SHOULDER
3	940+00.00	945+00.00	US 61-67	-	663 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
3	940+00.00	940+61.28	US 61/67	RT	9 SQYD CONCRETE PAVEMENT
3	940+00.00	940+61.28	US 61/67	RT	18 SQYD CONCRETE SHOULDER
3	940+61.28	945+00.00	US 61/67	RT	150 SQYD ASPHALT SHOULDER
3	940+70.91	941+22.04	US 61/67	RT	22 SQYD ASPHALT PAVED APPROACH
3	941+22.04	941+74.82	US 61/67	RT	54 LF CONCRETE CURB
3	941+74.82	942+90.25	US 61/67	RT	40 SQYD ASPHALT PAVED APPROACH
3	942+90.25	943+76.59	US 61/67	RT	132 LF CONCRETE CURB
3	943+76.59	944+20.08	US 61/67	RT	17 SQYD ASPHALT PAVED APPROACH
3	944+20.08	944+28.18	US 61/67	RT	8 LF ASPHALT CURB
3	944+28.18	944+83.64	US 61/67	RT	15 SQYD ASPHALT PAVED APPROACH
3	944+83.64	945+00.00	US 61/67	RT	18 LF ASPHALT CURB
4	945+00.00	950+00.00	US 61-67	-	966 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
4	947+28.30	950+00.00	US 61/67	LT	76 SQYD ASPHALT SHOULDER
4	947+28.30	947+38.14	US 61/67	LT	1 SQYD ASPHALT PAVED APPROACH
4	947+28.30	948+04.00	US 61/67	LT	35 SQYD ROCK LINING
4	948+00.62	949+19.16	US 61/67	LT	35 SQYD ASPHALT PAVED APPROACH
4	949+19.43	950+00.00	US 61/67	LT	81 LT ASPHALT CURB
4	949+93.73	949+98.74	US 61/67	LT	1 SQYD ASPHALT PAVED APPROACH
4	945+00.00	950+00.00	US 61/67	RT	161 SQYD ASPHALT SHOULDER
4	945+00.00	945+49.72	US 61/67	RT	50 LF ASPHALT CURB
4	945+49.72	946+25.16	US 61/67	RT	14 SQYD ASPHALT PAVED APPROACH
4	946+25.16	947+98.86	US 61/67	RT	177 LF ASPHALT CURB
4	948+64.22	949+20.19	US 61/67	RT	10 SQYD ASPHALT PAVED APPROACH
4	948+73.74	948+92.16	US 61/67	RT	2 SQYD CONCRETE PAVED APPROACH
4	949+20.19	950+00.00	US 61/67	RT	80 LF ASPHALT CURB
5	950+00.00	955+00.00	US 61-67	-	1668 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
5	950+00.00	955+00.00	US 61/67	LT	134 SQYD ASPHALT SHOULDER
5	950+00.00	950+44.73	US 61/67	LT	45 LF ASPHALT CURB
5	950+44.73	951+45.48	US 61/67	LT	23 SQYD ASPHALT PAVED APPROACH
5	951+45.48	952+49.55	US 61/67	LT	27 SQYD ASPHALT PAVED APPROACH
5	952+49.55	953+45.10	US 61/67	LT	21 SQYD CONCRETE PAVED APPROACH
5	953+16.84	955+00.00	US 61/67	LT	44 SQYD ASPHALT PAVED APPROACH
5	950+00.00	955+00.00	US 61/67	RT	134 SQYD ASPHALT SHOULDER
5	950+00.00	951+38.61	US 61/67	RT	139 LF ASPHALT CURB
5	951+38.61	952+03.25	US 61/67	RT	6 SQYD ASPHALT PAVED APPROACH
5	952+03.25	952+11.18	US 61/67	RT	8 LF ASPHALT CURB
5	952+22.29	952+87.16	US 61/67	RT	11 SQYD ASPHALT PAVED APPROACH
5	952+87.16	953+21.58	US 61/67	RT	81 LF CONCRETE CURB
5	953+21.58	955+00.00	US 61/67	RT	42 SQYD ASPHALT PAVED APPROACH
6	955+00.00	960+00.00	US 61-67	-	1498 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
6	955+00.00	960+00.00	US 61/67	LT	140 SQYD ASPHALT SHOULDER
6	955+00.00	956+28.13	US 61/67	LT	24 SQYD ASPHALT PAVED APPROACH
6	956+53.08	957+05.49	US 61/67	LT	8 SQYD CONCRETE PAVED APPROACH
6	957+05.49	957+90.25	US 61/67	LT	85 LF CONCRETE CURB
6	957+95.42	958+26.47	US 61/67	LT	48 LF CONCRETE CURB
6	957+76.27	958+31.24	US 61/67	LT	4 SQYD CONCRETE GUTTER
6	958+31.24	958+79.68	US 61/67	LT	48 LF CONCRETE CURB
6	958+79.68	959+16.07	US 61/67	LT	7 SQYD CONCRETE PAVED APPROACH
6	959+20.18	960+00.00	US 61/67	LT	80 LF CONCRETE CURB
6	955+00.00	960+00.00	US 61/67	RT	142 SQYD ASPHALT SHOULDER
6	955+00.00	955+19.32	US 61/67	RT	5 SQYD ASPHALT PAVED APPROACH
6	956+35.21	957+09.30	US 61/67	RT	8 SQYD ASPHALT PAVED APPROACH
6	957+06.42	957+37.41	US 61/67	RT	31 LF CONCRETE CURB
6	957+23.79	957+91.28	US 61/67	RT	40 SQYD ASPHALT PAVED APPROACH

REMOVAL OF IMPROVEMENTS (TABLE 2 OF 3)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION OFFSET (FT)	ITEM TO BE REMOVED
6	957+91.28	957+97.40	US 61/67	RT	6 LF ASPHALT CURB
6	957+97.40	960+00.00	US 61/67	RT	24 SQYD ASPHALT PAVED APPROACH
7	960+00.00	965+00.00	US 61-67	-	1591 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
7	960+00.00	960+80.61	US 61/67	LT	23 SQYD ASPHALT SHOULDER
7	960+80.61	962+18.48	US 61/67	LT	40 SQYD CONCRETE SHOULDER
7	962+14.48	965+00.00	US 61/67	LT	76 SQYD ASPHALT SHOULDER
7	960+00.00	960+22.97	US 61/67	LT	23 LF CONCRETE CURB
7	960+22.97	960+62.22	US 61/67	LT	7 SQYD ASPHALT PAVED APPROACH
7	960+67.10	960+85.76	US 61/67	LT	19 LF CONCRETE CURB
7	960+85.76	961+39.57	US 61/67	LT	12 SQYD CONCRETE PAVED APPROACH
7	961+31.67	961+79.26	US 61/67	LT	3 SQYD ROCK LINING
7	961+39.57	961+70.80	US 61/67	LT	32 LF CONCRETE CURB
7	961+70.80	962+18.32	US 61/67	LT	10 SQYD CONCRETE PAVED APPROACH
7	962+32.40	963+37.87	US 61/67	LT	27 SQYD ASPHALT PAVED APPROACH
7	963+45.79	964+21.37	US 61/67	LT	26 SQYD ASPHALT PAVED APPROACH
7	964+25.77	964+48.76	US 61/67	LT	5 SQYD ASPHALT PAVED APPROACH
7	964+93.12	965+00.00	US 61/67	LT	2 SQYD ASPHALT PAVED APPROACH
7	960+00.00	965+00.00	US 61/67	RT	141 SQYD ASPHALT SHOULDER
7	960+00.00	961+27.15	US 61/67	RT	18 SQYD ASPHALT PAVED APPROACH
7	961+27.15	961+79.28	US 61/67	RT	52 LF CONCRETE CURB
7	961+79.28	962+62.07	US 61/67	RT	31 SQYD ASPHALT PAVED APPROACH
7	963+22.61	964+18.28	US 61/67	RT	20 SQYD ASPHALT PAVED APPROACH
7	964+17.32	964+25.94	US 61/67	RT	9 LF ASPHALT CURB
7	964+25.94	965+00.00	US 61/67	RT	12 SQYD ASPHALT PAVED APPROACH
8	965+00.00	970+00.00	US 61-67	-	1629 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
8	965+00.00	970+00.00	US 61/67	LT	167 SQYD ASPHALT SHOULDER
8	965+00.00	966+47.60	US 61/67	LT	26 SQYD ASPHALT PAVED APPROACH
8	966+47.60	966+62.74	US 61/67	LT	15 LF CONCRETE CURB
8	966+62.74	967+02.13	US 61/67	LT	4 SQYD ASPHALT PAVED APPROACH
8	967+02.13	967+50.41	US 61/67	LT	48 LF CONCRETE CURB
8	967+50.41	968+20.53	US 61/67	LT	8 SQYD ASPHALT PAVED APPROACH
8	968+20.53	968+42.03	US 61/67	LT	22 LF CONCRETE CURB
8	968+42.03	968+82.10	US 61/67	LT	7 SQYD ASPHALT PAVED APPROACH
8	969+56.60	970+00.00	US 61/67	LT	8 SQYD ASPHALT PAVED APPROACH
8	965+00.00	968+05.00	US 61/67	RT	68 SQYD ASPHALT SHOULDER
8	968+63.82	970+00.00	US 61/67	RT	37 SQYD ASPHALT SHOULDER
8	964+83.94	968+04.50	US 61/67	RT	12 SQYD CONCRETE GUTTER
8	965+00.00	965+30.28	US 61/67	RT	5 SQYD ASPHALT PAVED APPROACH
8	965+91.53	966+11.57	US 61/67	RT	3 SQYD ASPHALT PAVED APPROACH
8	967+37.65	969+10.33	US 61/67	RT	84 SQYD CONCRETE PAVED APPROACH
8	969+10.33	970+00.00	US 61/67	RT	22 SQYD ASPHALT PAVED APPROACH
9	970+00.00	975+00.00	US 61-67	-	1323 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
9	970+00.00	975+00.00	US 61/67	LT	146 SQYD ASPHALT SHOULDER
9	970+00.00	975+00.00	US 61/67	LT	201 SQYD ASPHALT PAVED APPROACH
9	971+93.53	972+22.94	US 61/67	LT	72 LF CONCRETE CURB
9	970+00.00	975+00.00	US 61/67	RT	61 SQYD ASPHALT SHOULDER
9	970+00.00	970+60.10	US 61/67	RT	17 SQYD ASPHALT PAVED APPROACH
9	970+60.10	973+46.94	US 61/67	RT	32 SQYD CONCRETE GUTTER
9	970+75.16	971+16.81	US 61/67	RT	8 SQYD ASPHALT PAVED APPROACH
9	971+71.20	973+45.88	US 61/67	RT	170 LF ASPHALT CURB
9	972+72.68	972+83.74	US 61/67	RT	1 SQYD CONCRETE PAVED APPROACH
9	973+45.90	974+19.53	US 61/67	RT	14 SQYD CONCRETE PAVED APPROACH
9	974+19.53	974+89.13	US 61/67	RT	68 LF ASPHALT CURB
9	974+19.53	974+98.87	US 61/67	RT	9 SQYD CONCRETE GUTTER
9	974+89.13	975+00.00	US 61/67	RT	1 SQYD ASPHALT PAVED APPROACH

SUMMARY OF QUANTITIES
SHEET 2 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

REMOVAL OF IMPROVEMENTS (TABLE 3 OF 3)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION OFFSET (FT)	ITEM TO BE REMOVED
10	975+00.00	980+00.00	US 61-67	-	1543 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
10	975+00.00	977+77.13	US 61/67	LT	63 SQYD ASPHALT SHOULDER
10	975+00.00	978+51.00	US 61/67	LT	142 SQYD ASPHALT PAVED APPROACH
10	977+77.13	978+44.16	US 61/67	LT	5 SQYD CONCRETE GUTTER
10	977+77.31	977+85.86	US 61/67	LT	9 LF CONCRETE CURB
10	977+93.22	978+44.72	US 61/67	LT	52 LF CONCRETE CURB
10	978+44.08	979+17.31	US 61/67	LT	25 SQYD CONCRETE PAVED APPROACH
10	979+17.31	979+55.97	US 61/67	LT	4 SQYD CONCRETE GUTTER
10	979+24.36	979+55.83	US 61/67	LT	32 LF CONCRETE CURB
10	979+55.97	979+93.58	US 61/67	LT	9 SQYD CONCRETE PAVED APPROACH
10	975+00.00	980+00.00	US 61/67	RT	112 SQYD ASPHALT SHOULDER
10	975+00.00	977+22.26	US 61/67	RT	32 SQYD ASPHALT PAVED APPROACH
10	976+51.20	976+63.58	US 61/67	RT	13 LF CONCRETE CURB
10	977+09.35	977+24.47	US 61/67	RT	15 LF CONCRETE CURB
10	977+22.77	979+36.94	US 61/67	RT	40 SQYD ASPHALT PAVED APPROACH
10	977+75.47	978+04.31	US 61/67	RT	29 LF CONCRETE CURB
10	978+54.36	978+57.75	US 61/67	RT	4 LF CONCRETE CURB
10	978+92.10	978+97.56	US 61/67	RT	6 LF ASPHALT CURB
10	979+36.94	979+39.79	US 61/67	RT	3 LF ASPHALT CURB
10	979+39.79	979+49.58	US 61/67	RT	3 SQYD ASPHALT PAVED APPROACH
10	979+46.70	980+00.00	US 61/67	RT	16 SQYD CONCRETE PAVED APPROACH
11	980+00.00	980+14.40	US 61-67	-	24 LF FULL DEPTH PAVEMENT REPAIR SAWCUT
11	980+00.00	980+14.40	US 61/67	RT	1 SQYD ASPHALT SHOULDER
11	980+00.00	980+14.40	US 61/67	RT	4 SQYD CONCRETE PAVED APPROACH
11	980+09.55	980+15.67	US 61/67	RT	2 SQYD ASPHALT PAVED APPROACH

FLOWABLE FILL

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION OFFSET (FT)	FLOWABLE FILL (CY)	DESCRIPTION
10	977+89.98	978+61.88	US 61/67	RT	88	BACKFILL 66" CMP

INLET AND MANHOLE ADJUSTMENT

PLAN SHEET NO (_ OF 11)	STATION	ROADWAY	LOCATION OFFSET (FT)	ADJUST BASIN OR INLET (EA)	ADJUST MANHOLE (EA)	REMARKS
4	948+22.36	US 61/67	33.64 RT	1		STORM INLET (D 1-11)
6	958+28.65	US 61/67	32.25 LT	1		STORM INLET (D 2-70)
6	959+17.48	US 61/67	32.25 LT	1		STORM INLET (D 2-60)
7	960+64.03	US 61/67	32.25 LT	1		STORM INLET (D 2-50)
7	964+27.95	US 61/67	26.83 LT		1	SANITARY MANHOLE
8	968+57.95	US 61/67	25.45 LT		1	SANITARY MANHOLE
8	969+57.34	US 61/67	26.36 LT		1	SANITARY MANHOLE
9	971+86.90	US 61/67	34.63 LT	1		STORM INLET (D 3-110)
9	971+90.39	US 61/67	42.04 LT		1	STORM MANHOLE
9	973+50.04	US 61/67	34.81 LT		1	STORM MANHOLE (EX MH 3-100)
9	974+46.54	US 61/67	29.69 LT	1		STORM INLET (D 3-90)
10	975+14.69	US 61/67	30.50 LT	1		STORM INLET (D 3-80)
10	975+51.19	US 61/67	32.25 LT	1		STORM INLET (D 3-70)
10	975+90.79	US 61/67	25.66 LT		1	SANITARY MANHOLE
10	976+55.59	US 61/67	29.01 LT	1		STORM INLET (D 3-60)
10	978+81.27	US 61/67	25.68 LT		1	SANITARY MANHOLE
			SUBTOTAL	9	7	
			PAY TOTAL	9	7	

COLD MILLING

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3IN. THICK OR LESS) (SQYD)	TACK COAT (GAL)
2	936+86.14	940+00.00	US 61-67	CTR	1,883.5	188.4
3	940+00.00	945+00.00	US 61-67	CTR	2,780.60	278.06
4	945+00.00	950+00.00	US 61-67	CTR	2,666.95	266.70
5	950+00.00	955+00.00	US 61-67	CTR	2,502.34	250.23
6	955+00.00	960+00.01	US 61-67	CTR	2,479.59	247.96
7	960+00.01	965+00.00	US 61-67	CTR	2,467.46	246.75
8	965+00.00	970+00.00	US 61-67	CTR	2,429.76	242.98
9	970+00.00	975+00.01	US 61-67	CTR	2,438.31	243.83
10	975+00.00	979+99.45	US 61-67	CTR	2,616.01	261.60
11	980+00.00	980+14.40	US 61-68	CTR	93.46	9.35
				SUBTOTAL	22,358	2,236
				PAY TOTAL	22,358	2,236

OVERLAY

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	2" ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125CLP) (TONS)
2	936+86.14	940+00.00	US 61-67	CTR	254.1
3	940+00.00	940+00.00	US 61-67	CTR	373.5
4	945+00.00	950+00.00	US 61-67	CTR	362.9
5	950+00.00	955+00.00	US 61-67	CTR	333.1
6	955+00.00	960+00.00	US 61-67	CTR	333.1
7	960+00.00	965+00.00	US 61-67	CTR	333.1
8	965+00.00	970+00.00	US 61-67	CTR	333.1
9	970+00.00	975+00.00	US 61-67	CTR	330.4
10	975+00.00	980+00.00	US 61-67	CTR	334.3
10	978+27.00	978+46.00	US 61-67	200 RT	0.3
11	980+00.00	980+14.40	US 61-67	CTR	10.0
				SUBTOTAL	2,997.9
				PAY TOTAL	3,033

SEE ASPHALT PATCH QUANITITY TABLE FOR ADDITIONAL QUANTITIES

ASPHALT PATCH

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	4" ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125CLP) (TONS)	FULL DEPTH PAVEMENT REPAIR SAWCUT (FOR PERIMETER & INTERNAL SAW CUTS) (LF)	DESCRIPTION
10	977+89.98	978+61.88	US 61-67	RT	34.5	463.0	PAVEMENT PATCHING FOR PIPE
				SUBTOTAL	35	463	
				PAY TOTAL	*	**	

* TOTAL IS INCLUDED WITH 2" ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125CLP) IN OVERLAY QUANTITY TABLE

** TOTAL IS INCLUDED WITH FULL DEPTH PAVEMENT REPAIR SAW CUT IN FULL DEPTH PAVEMENT REPAIR QUANTITY TABLE

SUMMARY OF QUANTITIES
SHEET 3 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

PAVEMENT EDGE TREATMENT

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	PAVEMENT EDGE TREATMENT (LF)	DESCRIPTION
2	936+86.14	940+00.00	US 61-67	LT/RT	627.7	
3	940+00.00	945+00.00	US 61-67	LT/RT	1,000.0	
3	940+65.90	941+22.51	US 61-67	RT	55.0	
3	941+80.82	942+23.24	US 61-67	RT	54.4	
3	942+45.77	942+87.44	US 61-67	RT	38.2	
3	943+75.59	944+21.29	US 61-67	RT	39.0	
3	944+39.38	944+81.86	US 61-67	RT	36.8	
4	945+00.00	950+00.00	US 61-67	LT/RT	1,000.0	
4	945+57.65	946+24.92	US 61-67	RT	73.0	BAUMAN DRIVE
4	947+95.03	948+49.37	US 61-67	LT	34.4	SUNRIDGE TRAIL
4	948+49.37	949+25.22	US 61-67	LT	29.6	
4	948+69.68	949+21.41	US 61-67	RT	27.6	
5	950+00.00	955+00.00	US 61-67	LT/RT	1,000.0	
5	950+48.12	951+36.91	US 61-67	LT	29.0	
5	951+41.67	952+07.42	US 61-67	RT	21.0	
5	952+23.60	952+92.55	US 61-67	RT	22.4	
5	953+19.67	953+79.70	US 61-67	RT	30.0	
5 to 6	953+79.69	955+28.05	US 61-67	LT	28.8	
5 to 6	951+48.27	956+31.26	US 61-67	RT	59.6	
6	955+00.00	960+00.00	US 61-67	LT/RT	1,000.0	
6	956+32.40	957+25.20	US 61-67	RT	22.4	
6	956+56.70	957+02.60	US 61-67	LT	25.8	
6	957+23.79	957+93.20	US 61-67	RT	55.0	
6	957+95.91	958+44.98	US 61-67	RT	20.0	
6	958+45.84	959+31.85	US 61-67	RT	21.0	
6	958+78.56	959+16.72	US 61-67	LT	26.0	
6 to 7	959+40.95	961+29.08	US 61-67	RT	66.6	
7	960+00.00	965+00.00	US 61-67	LT/RT	1,000.0	
7	960+24.69	960+66.03	US 61-67	LT	25.6	
7	960+93.60	961+39.37	US 61-67	LT	29.0	
7	961+70.43	962+19.06	US 61-67	LT	30.0	
7	961+77.24	962+70.34	US 61-67	RT	28.4	
7	962+29.38	962+93.92	US 61-67	LT	29.6	
7	962+97.75	963+38.52	US 61-67	LT	27.2	
7	963+25.00	964+21.37	US 61-67	RT	56.0	
7	963+42.98	963+87.82	US 61-67	LT	30.0	
7	964+23.88	965+36.84	US 61-67	RT	35.0	THIRTEETH STREET
7	964+84.78	966+51.78	US 61-67	LT	27.2	
8	965+00.00	970+00.00	US 61-67	LT/RT	1,000.0	
8	966+58.68	967+05.82	US 61-67	LT	26.2	
8	967+47.69	968+25.18	US 61-67	LT	25.4	
8	968+02.79	968+62.92	US 61-67	RT	34.6	TWELTH STREET
8 to 9	968+37.31	969+03.20	US 61-67	LT	27.2	
9	969+03.12	970+65.15	US 61-67	RT	28.4	
9	970+00.00	975+00.00	US 61-67	LT/RT	1,000.0	
9	970+65.15	971+27.22	US 61-67	RT	38.8	
9	971+33.89	972+06.98	US 61-67	LT	66.4	ELEVENTH STREET
9	972+06.98	973+40.92	US 61-67	LT	220.0	MISSOURI AVENUE
9	973+45.21	974+20.59	US 61-67	RT	18.4	
10	975+00.00	980+00.00	US 61-67	LT/RT	1,000.0	
10	975+09.62	975+54.28	US 61-67	LT	60.2	TENTH STREET
10	974+86.88	976+04.97	US 61-67	RT	42.0	KENNER STREET
10	975+54.28	977+71.78	US 61-67	LT	57.6	
10	976+04.97	977+09.35	US 61-67	RT	20.0	
10	976+63.58	977+09.35	US 61-67	RT	20.4	
10	977+24.28	977+75.46	US 61-67	RT	20.8	
10	978+04.30	978+54.36	US 61-67	RT	19.4	
10	978+45.90	979+15.57	US 61-67	RT	19.0	
10	978+57.75	978+92.09	US 61-67	LT	20.2	NINTH STREET
10	978+97.47	979+36.93	US 61-67	RT	18.2	
10	979+55.61	979+93.57	US 61-67	LT	12.8	
10	979+39.75	960+13.90	US 61-67	RT	20.7	
11	980+00.00	980+14.40	US 61-67	RT	28.8	
				SUBTOTAL	10,607	
				PAY TOTAL	10,607	

LINEAR GRADING & FINAL SODDING

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	LINEAR GRADING CLASS I (STA)	TURF TYPE TALL FESCUE SODDING (SY)
2	936+86.14	940+00.00	US 61/67	CTR	3	
2	936+88.44	940+74.44	US 61/67	RT		132.0
3	940+00.00	945+00.00	US 61/67	CTR	5	
3	941+07.07	941+88.69	US 61/67	RT		98.5
3	942+15.10	942+53.06	US 61/67	RT		60.0
3	942+83.40	943+79.66	US 61/67	RT		145.8
3	944+12.42	944+44.34	US 61/67	RT		33.9
3	944+73.66	945+60.40	US 61/67	RT		122.8
4	945+00.00	950+00.00	US 61/67	CTR	5	
4	946+20.81	948+74.26	US 61/67	RT		124.9
4	948+37.95	948+59.39	US 61/67	LT		9.2
4	949+17.48	951+52.97	US 61/67	LT		133.6
4	949+17.13	951+49.03	US 61/67	RT		233.4
5	950+00.00	955+00.00	US 61/67	CTR	5	
5	951+98.85	952+33.37	US 61/67	RT		11.2
5	952+80.52	953+27.51	US 61/67	RT		64.4
5	953+65.36	953+83.48	US 61/67	RT		18.5
6	955+00.00	960+00.00	US 61/67	CTR	5	
6	955+18.85	956+43.15	US 61/67	RT		120.3
6	956+26.76	956+63.26	US 61/67	LT		43.3
6	956+97.05	958+84.14	US 61/67	LT		121.3
6	959+14.69	960+28.95	US 61/67	LT		61.6
7	960+00.00	965+00.00	US 61/67	CTR	5	
7	960+60.46	960+89.16	US 61/67	LT		15.5
7	961+31.67	961+79.25	US 61/67	LT		26.4
7	962+10.15	962+37.55	US 61/67	LT		9.3
7	962+61.29	963+29.27	US 61/67	RT		33.1
7	963+32.83	963+47.65	US 61/67	LT		27.2
7	964+17.75	964+26.59	US 61/67	LT		6.0
7	964+15.97	964+27.76	US 61/67	RT		7.7
7	964+41.87	964+93.65	US 61/67	LT		58.9
8	965+00.00	970+00.00	US 61/67	CTR	5	
8	965+28.15	965+97.32	US 61/67	RT		44.8
8	966+10.60	967+40.34	US 61/67	RT		31.7
8	966+43.59	966+66.88	US 61/67	LT		21.7
8	966+98.63	967+54.66	US 61/67	LT		27.1
8	968+16.34	968+45.77	US 61/67	LT		18.2
8	968+95.32	969+57.32	US 61/67	LT		58.3
9	970+00.00	975+00.00	US 61/67	CTR	5	
9	970+51.73	970+74.66	US 61/67	RT		21.0
9	971+14.37	972+73.64	US 61/67	RT		23.2
9	972+78.86	973+55.65	US 61/67	RT		42.9
9	974+15.07	974+94.35	US 61/67	RT		33.4
9	974+99.18	975+14.26	US 61/67	LT		7.5
10	975+00.00	980+00.00	US 61/67	CTR	5	
10	975+95.49	976+07.98	US 61/67	CTR		7.8
11	980+00.00	980+14.40	US 61/67	RT	0.144	
				SUBTOTAL	43.1	2,056.4
				PAY TOTAL	44	2,057

SUMMARY OF QUANTITIES
SHEET 4 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

OPTIONAL PAVEMENT (WIDENING)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	ASPHALT PAVEMENT OPTION: 2 " ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125CLP MIX) (TON)	ASPHALT PAVEMENT OPTION: 3 " ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP250C MIX) (TON)	ASPHALT PAVEMENT OPTION: 4.75" ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP250C MIX) (TON)	ASPHALT PAVEMENT OPTION: TACK COAT (GAL)	CONCRETE PAVEMENT OPTION: 2 " ASPHALTIC CONCRETE MIXTURE PG 70-22 (SP125CLP MIX) (TON)	CONCRETE PAVEMENT OPTION: 8" CONCRETE PAVEMENT (NON-REINFORCED) (SQYD)	CONCRETE PAVEMENT OPTION: TACK COAT (GAL)	AGGREGATE FOR BASE (6 IN. THICK) (SQYD)
2	936+86.14	938+30.83	US 61-67	RT	50.7	76.7	121.2	15.8	50.7	157.5	12.6	157.5
2	936+86.14	940+00.00	US 61-67	RT	106.8	161.9	256.3	33.3	106.8	332.6	26.6	332.6
3	940+00.00	945+00.00	US 61-67	RT	227.6	344.6	545.7	70.8	227.6	708.4	56.7	708.4
4	945+00.00	950+00.00	US 61-67	RT	187.3	283.7	449.1	58.3	187.3	583.0	46.6	583.0
4	947+28.29	955+00.00	US 61-67	LT	45.1	68.3	108.0	14.0	45.1	140.2	11.2	140.2
5	950+00.00	955+00.00	US 61-67	RT	90.0	136.4	216.0	28.0	90.0	280.4	22.4	280.4
5	950+00.00	955+00.00	US 61-67	LT	105.4	159.8	253.0	32.8	105.4	328.3	26.3	328.3
6	955+00.00	960+00.00	US 61-67	RT	63.4	96.1	152.2	19.8	63.4	197.5	15.8	197.5
6	955+00.00	960+00.00	US 61-67	LT	139.5	211.3	334.5	43.4	139.5	434.3	34.7	434.3
7	960+00.00	965+00.00	US 61-67	RT	84.6	128.2	203.0	26.4	84.6	263.6	21.1	263.6
7	960+00.00	965+00.00	US 61-67	LT	122.2	185.1	292.9	38.0	122.2	380.2	30.4	380.2
8	965+00.00	970+00.00	US 61-67	RT	114.1	172.8	273.6	35.5	114.1	355.3	28.4	355.3
8	965+00.00	970+00.00	US 61-67	LT	104.8	158.6	251.2	32.6	104.8	326.1	26.1	326.1
9	970+00.00	975+00.00	US 61-67	RT	89.4	135.2	214.3	27.8	89.4	278.1	22.2	278.1
9	970+00.00	975+00.00	US 61-67	LT	118.7	179.8	284.5	36.9	118.7	369.4	29.6	369.4
10	975+00.00	979+93.54	US 61-67	RT	64.7	97.9	155.1	20.1	64.7	201.3	16.1	201.3
10	975+00.01	979+67.29	US 61-67	LT	98.1	148.5	235.1	30.5	98.1	305.3	24.4	305.3
				SUBTOTAL	1812	2745	4346	564	1812	5642	451	5642
				PAY TOTAL	5642 SQYD OPTIONAL PAVEMENT							5642

MODIFIED PAVED APPROACH AND 6" CONCRETE PAVEMENT (TABLE 1 OF 2)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	MODIFIED PAVED APPROACH 7 INCH (SY)	MODIFIED PAVED APPROACH 8 INCH (SY)	CONCRETE PAVEMENT 6 INCH (SY)	4 IN. TYPE 5 AGGREGATE FOR BASE (SY)	DESCRIPTION
3	940+65.90	941+22.51	US 61-67	RT		64.2		64.2	
3	941+80.82	942+23.24	US 61-67	RT		52.4		52.4	
3	942+45.77	942+87.44	US 61-67	RT		30.2		30.2	
3	943+75.59	944+21.29	US 61-67	RT		33.0		33.0	
3	944+39.38	944+81.86	US 61-67	RT		26.6		26.6	
4	945+57.65	946+24.92	US 61-67	RT		143.2		143.2	BAUMAN DRIVE
4	947+28.67	948+04.37	US 61-67	LT			103.4	103.4	
4	947+95.03	948+49.37	US 61-67	LT		72.6		72.6	SUNRIDGE TRAIL
4	948+49.37	949+25.22	US 61-67	LT		80.9		80.9	
4	948+69.68	949+21.41	US 61-67	RT		33.1		33.1	
4	949+93.73	949+98.80	US 61-67	LT		4.2		4.2	
5	950+48.12	951+36.91	US 61-67	LT		80.0		80.0	
5	951+41.67	952+07.42	US 61-67	RT		37.4		37.4	
5	952+23.60	952+92.55	US 61-67	RT		43.6		43.6	
5	953+19.67	953+79.70	US 61-67	RT		53.9		53.9	
5 to 6	953+79.69	955+28.05	US 61-67	LT		399.3		399.3	
5 to 6	951+48.27	956+31.26	US 61-67	RT		138.0		138.0	
6	956+32.40	957+25.20	US 61-67	RT		65.9		65.9	
6	956+56.70	957+02.60	US 61-67	LT		23.8		23.8	
6	957+23.79	957+93.20	US 61-67	RT		153.1		153.1	
6	957+90.71	95798.43	US 61-67	RT		3.3		3.3	
6	957+95.91	958+44.98	US 61-67	RT		37.4		37.4	
6	958+42.47	958+48.33	US 61-67	RT		2.7		2.7	

SUMMARY OF QUANTITIES
SHEET 5 OF 10

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

MODIFIED PAVED APPROACH AND 6" CONCRETE PAVEMENT (TABLE 2 OF 2)

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	MODIFIED PAVED APPROACH 7 INCH (SY)	MODIFIED PAVED APPROACH 8 INCH (SY)	CONCRETE PAVEMENT 6 INCH (SY)	4 IN. TYPE 5 AGGREGATE FOR BASE (SY)	DESCRIPTION
6	958+45.84	959+31.85	US 61-67	RT		71.1		71.1	
6	958+78.56	959+16.72	US 61-67	LT		15.1		15.1	
6	959+29.33	959+43.43	US 61-67	RT		7.7		7.7	
6 to 7	959+40.95	961+29.08	US 61-67	RT		173.1		173.1	
7	960+89.10	961+00.53	US 61-67	LT			2.9	2.9	
7	960+24.69	960+66.03	US 61-67	LT		18.0		18.0	
7	960+93.60	961+39.37	US 61-67	LT		28.8		28.8	
7	961+70.43	962+19.06	US 61-67	LT		37.9		37.9	
7	961+77.24	962+70.34	US 61-67	RT		84.6		84.6	
7	962+29.38	962+93.92	US 61-67	LT		52.9		52.9	
7	962+86.50	963+05.11	US 61-67	LT		15.6		15.6	
7	962+97.75	963+38.52	US 61-67	LT		29.0		29.0	
7	963+25.00	964+21.37	US 61-67	RT		81.2		81.2	
7	963+42.98	963+87.82	US 61-67	LT		47.1		47.1	
7	963+83.34	964+19.84	US 61-67	LT		30.4		30.4	
7	964+22.59	964+50.73	US 61-67	LT	19.2			19.2	
7	964+23.88	965+36.84	US 61-67	RT		83.1		83.1	THIRTEETH STREET
7	964+84.78	966+51.78	US 61-67	LT		136.0		136.0	
8	965+90.02	966+18.68	US 61-67	RT	16.2			16.2	
8	966+58.68	967+05.82	US 61-67	LT		29.9		29.9	
8	967+37.65	968+15.30	US 61-67	RT		57.9		57.9	
8	967+47.69	968+25.18	US 61-67	LT		56.4		56.4	
8	968+02.79	968+62.92	US 61-67	RT		50.3		50.3	TWELTH STREET
8 to 9	968+37.31	969+03.20	US 61-67	LT		50.5		50.5	
8 to 9	968+47.54	969+07.56	US 61-67	RT		33.2		33.2	
9	969+03.12	970+65.15	US 61-67	RT		134.3		134.3	
9	969+56.61	971+53.23	US 61-67	LT		110.0		110.0	
9	970+65.15	971+27.22	US 61-67	RT		65.9		65.9	
9	971+33.89	972+06.98	US 61-67	LT		134.1		134.1	ELEVENTH STREET
9	972+06.98	973+40.92	US 61-67	LT		285.4		285.4	MISSOURI AVENUE
9	973+12.75	975+00.63	US 61-67	LT		123.9		123.9	
9	973+45.21	974+20.59	US 61-67	RT		35.3		35.3	
10	975+09.62	975+54.28	US 61-67	LT		87.6		87.6	TENTH STREET
10	974+86.88	976+04.97	US 61-67	RT		78.3		78.3	KENNER STREET
10	975+54.28	977+71.78	US 61-67	LT		168.4		168.4	
10	976+04.97	977+09.35	US 61-67	RT		28.1		28.1	
10	976+48.70	976+66.08	US 61-67	RT			15.9	15.9	
10	976+63.58	977+09.35	US 61-67	RT		26.3		26.3	
10	977+06.85	977+22.25	US 61-67	RT			12.9	12.9	
10	977+24.28	977+75.46	US 61-67	RT		29.8		29.8	
10	977+67.61	978+50.06	US 61-67	LT			73.5	73.5	
10	978+04.30	978+54.36	US 61-67	RT		27.2		27.2	
10	978+45.90	979+15.57	US 61-67	RT		20.4		20.4	
10	978+57.75	978+92.09	US 61-67	LT		47.5		47.5	
10	978+97.47	979+36.93	US 61-67	RT		26.8		26.8	
10	979+11.23	979+59.82	US 61-67				39.8	39.8	
10	979+55.61	979+93.57	US 61-67	LT		24.2		24.2	
10	979+39.75	960+13.90	US 61-67	RT		78.0		78.0	
10	979+90.25	979+94.20	US 61-67	RT			1.9	1.9	
				SUBTOTAL	35	4,300	250	4,586	
				PAY TOTAL	35	4300	250	5557	

* SEE CURB/CURB AND GUTTER TABLE FOR ADDITIONAL 4 IN. TYPE 5 AGGREGATE FOR BASE QUANTITY

SUMMARY OF QUANTITIES
SHEET 6 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

CURB/CURB AND GUTTER

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	4 IN. TYPE 5 AGGREGATE FOR BASE (SY)	CURB AND GUTTER TYPE B (LF)	GUTTER TYPE A (LF)	CURB AND GUTTER TYPE A (LF)	CURB TYPE S (LF)	DESCRIPTION
2	938+30.83	938+86.41	US 61-67	RT					56.0	
2 to 3	938+86.41	940+65.89	US 61-67	RT	59.7	179.0				
3	941+21.68	941+80.84	US 61-67	RT	20.0	60.0				
3	942+23.22	942+45.73	US 61-67	RT	7.7	23.0				
3	942+87.42	943+75.56	US 61-67	RT	30.7	92.0				
3	943+38.68	94+350.24	US 61-68	RT	2.7		8.0			
3	944+21.27	944+30.31	US 61-67	RT	3.0	9.0				
3	944+30.31	944+39.30	US 61-67	RT	3.0	9.0				
3	944+81.85	945+51.30	US 61-67	RT	12.0	36.0				
4	946+24.88	947+21.18	US 61-67	RT	32.7	98.0				
4	947+21.17	948+69.75	US 61-67	RT	49.7	149.0				
4	947+38.14	947+95.03	US 61-67	LT	18.7	56.0				
4	949+21.48	949+98.40	US 61-67	RT	25.7	77.0				
4	949+25.15	949+97.68	US 61-67	LT	24.0	72.0				
4	949+97.68	950+48.13	US 61-67	LT	16.7	50.0				
4	949+98.40	951+41.79	US 61-67	RT	47.7	143.0				
5	951+36.91	951+48.27	US 61-67	LT	3.7	11.0				
5	952+07.42	952+23.60	US 61-67	RT	5.3	16.0				
5	952+92.55	953+19.67	US 61-67	RT	9.0	27.0				
6	955+28.05	956+32.40	US 61-67	RT	34.7	104.0				
6	956+31.31	956+55.64	US 61-67	LT	8.3	25.0				
6	957+02.28	958+78.50	US 61-67	LT	58.7	176.0				
6	957+25.20	957+30.61	US 61-67	RT	1.7	5.0				
6	957+93.19	957+95.91	US 61-67	RT	1.0	3.0				
6	958+44.98	958+45.84	US 61-67	RT	0.3	1.0				
6	959+16.68	960+24.69	US 61-67	LT	35.7	107.0				
6	959+31.85	959+40.94	US 61-67	RT	3.0	9.0				
7	960+66.04	960+93.69	US 61-67	LT	9.0	27.0				
7	961+29.00	961+77.16	US 61-67	RT	16.0	48.0				
7	961+99.44	961+70.50	US 61-67	LT	10.3	31.0				
7	962+19.07	962+29.38	US 61-67	LT	3.3	10.0				
7	962+70.34	963+25.00	US 61-67	RT	18.3	55.0				
7	962+70.35	963+25.01	US 61-68	RT	5.0		15.0			
7	962+93.93	962+97.59	US 61-67	LT	2.0		6.0			
7	963+38.52	963+42.98	US 61-67	LT	1.7	5.0				
7	963+84.33	964+22.59	US 61-67	LT	12.7	38.0				
7	964+21.37	964+23.88	US 61-67	RT	1.0	3.0				
7	964+50.72	964+84.76	US 61-67	LT	11.3	34.0				
8	965+36.83	965+90.02	US 61-67	RT	17.7	53.0				
8	966+18.68	968+02.79	US 61-67	RT	61.4			184.1		MOUNTABLE CURB
8	966+51.78	966+58.68	US 61-67	LT	2.3	7.0				
8	967+05.81	967+47.75	US 61-67	LT	14.0	42.0				
8	968+62.92	969+03.12	US 61-67	RT	13.3	40.0				
8	968+25.18	968+37.32	US 61-67	LT	4.0	12.0				
8	969+03.19	971+33.96	US 61-67	LT	75.7	227.0				
9	971+27.22	973+45.21	US 61-67	RT	70.7	212.0				
9	974+20.59	974+86.88	US 61-67	RT	21.7	65.0				
10	975+00.62	975+09.63	US 61-67	LT	3.0	9.0				
10	976+51.19	976+63.58	US 61-67	RT	4.0	12.0				
10	977+09.35	977+24.46	US 61-67	RT	5.0	15.0				
10	977+12.32	977+45.91	US 61-67	LT	44.7	134.0				
10	977+75.46	978+04.30	US 61-67	RT	9.7	29.0				
10	978+54.36	978+57.75	US 61-67	RT	1.0	3.0				
10	978+92.22	978+97.55	US 61-67	RT	2.0	6.0				
10	979+15.73	979+55.52	US 61-67	LT	13.3	40.0				
10	979+36.93	979+40.79	US 61-67	RT	1.0	3.0				
				SUBTOTAL	970.5	2697	29	184	56	
				PAY TOTAL	*	2697	29	184	56	

* TOTAL IS INCLUDED WITH MODIFIED PAVED APPROACH QUANTITY TABLE

SUMMARY OF QUANTITIES
SHEET 7 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FULL DEPTH PAVEMENT REPAIR

PLAN SHEET NO (_ OF 11)	STATION	STATION	ROADWAY	LOCATION	FURNISHING & PLACING CONCRETE MATERIAL FOR FULL DEPTH PAVEMENT REPAIR (SY)	SUBGRADE COMPATION (6 IN. DEPTH) (PAVEMENT REPAIR) (SY)	TYPE 1 OR TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (PAVEMENT REPAIR) (SY)	FULL DEPTH PAVEMENT REPAIR SAWCUT (FOR PERIMETER & INTERNAL SAW CUTS) (LF)	DOWEL BAR (DRILLING, FURNISHING & INSTALLATION) FOR FULL DEPTH PAVEMENT REPAIR (EA)	DOWEL BAR (FURNISHING & INSTALLATION WITH BASKETS) FOR FULL DEPTH PAVEMENT REPAIR (EA)	DESCRIPTION
2-11	936+86.14	980+14.40	US 61-67	CTR	183.3	183.3	183.3	850.0	500.0	250	25 FULL DEPTH CONCRETE PAVMENT REPAIR (6FTx11FT)
4	948+18.73	948+24.31	US 61-67	CTR	21.3	21.3	21.3	90.0	90.0	45	DI 1-31 TO DI 1-30 CROSSING
5	951+34.44	951+66.56	US 61-67	CTR	28.8	28.8	28.8	104.0	104.0	52	EX DI 1-00 TO DI 1-10 CROSSING
10	977+76.03	977+88.91	US 61-67	CTR	29.7	29.7	29.7	90.0	90.0	45	DI 3-40 TO DI 3-50 CROSSING
				SUBTOTAL	263.1	263.1	263.1	1,134.0	784.0	392	
				PAY TOTAL	264	264	264	1,597	784	392	

PERMANENT PAVEMENT MARKINGS

PLAN SHEET NO (_ OF 11	STATION	STATION	ROADWAY	PREFORMED THERMOPLASTIC PAVEMENT MARKING			HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS			
				STRAIGHT ARROW (EACH)	LEFT/RIGHT ARROW (EA)	24" WHITE (LF)	4" YELLOW SOLID (LF)	4" YELLOW INTERMITTENT (LF)	6" WHITE SOLID (LF)	6" WHITE INTERMITTENT (LF)
2	936+86.14	940+00.00	I-61/67		1		788	197	788	157
3	940+00.00	945+00.00	I-61/67		2		1,000	250	1,000	250
4	945+00.00	950+00.00	I-61/67		3	38	1,000	250	1,000	250
5	950+00.00	955+00.00	I-61/67		3	24	1,000	250	1,000	250
6	955+00.00	960+00.00	I-61/67		2	68	1,000	250	1,000	250
7	960+00.00	965+00.00	I-61/67		2	14	1,000	250	1,000	250
8	965+00.00	970+00.00	I-61/67	3	4	17	1,000	250	1,000	250
9	970+00.00	975+00.00	I-61/67		5	24	1,040	250	1,150	250
10	975+00.00	980+00.00	I-61/67		2	30	1,000	250	1,000	250
11	980+00.00	980+14.40	I-61/67				29	5	29	7
			SUBTOTAL	3	24	215	8,857	2,202	8,967	2,164
			PAY TOTAL	3	24	215	11,059		11,131	

TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKING REMOVAL

PLAN SHEET NO (_ OF 11	STATION	STATION	ROADWAY	PAVEMENT MARKING REMOVAL (LF)	4 IN TEMPORARY PAVEMENT MARKING PAINT	
					YELLOW (LF)	WHITE (LF)
2	936+86.14	940+00.00	I-61/67	945	785	628
3	940+00.00	945+00.00	I-61/67	1250	1,250	1,000
4	945+00.00	950+00.00	I-61/67	1250	1,250	1,000
5	950+00.00	955+00.00	I-61/67	1250	1,250	1,000
6	955+00.00	960+00.00	I-61/67	1250	1,250	1,000
7	960+00.00	965+00.00	I-61/67	1250	1,250	1,000
8	965+00.00	970+00.00	I-61/67	1250	1,250	1,000
9	970+00.00	975+00.00	I-61/67	1250	1,250	1,000
10	975+00.00	980+00.00	I-61/67	1250	1,250	1,000
11	980+00.00	980+14.40	I-61/67	36	36	29
			SUBTOTAL	10,981	10,821	8,657
			PAY TOTAL	10,981	19,478	

SUMMARY OF QUANTITIES
SHEET 8 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

PIPES AND END SECTIONS

PLAN SHEET NO (_ OF 11)	EXIT STRUCTURE ID	PIPE ID	ROADWAY	FROM STATION	FROM OFFSET (FT)	TO STATION	TO OFFSET (FT)	CLASS 3 EXCAV. (CY)	GROUP A 12 IN LF	GROUP A 15 IN LF	GROUP A 18 IN LF	GROUP A 24 IN LF	GROUP A 36 IN LF	GROUP B 72 IN LF	FLARED END SECTION 72 IN GROUP B EA	PIPE COLLAR TYPE A EA	PIPE COLLAR MOD. TYPE C EA	PRECAST BEND 45 DEG. EA	PRECAST WYE 36 IN / 72 IN EA	TEMP SHORING LS
5	DI 1-10	SS 1-10	US 61/67	951+33.80	30.50LT	951+95.47	81.55 RT	181				126								1
5	EX GI 1-11	SS 1-11	US 61/67	951+30.64	36.77 LT	951+33.80	30.50 LT	4				5								
5	DI 1-20	SS 1-20	US 61/67	949+97.04	30.50 LT	951+33.80	30.50 LT	95				135								
4	EX GI 1-21	SS 1-21	US 61/67	949+96.72	35.98 LT	949+97.04	30.50 LT	9	4											
4	DI 1-30	SS 1-30	US 61/67	948+20.69	29.35 LT	949+97.04	30.50 LT	108				174								
4	DI 1-31	SS 1-32	US 61/67	948+22.48	34.63 RT	948+20.69	29.35 LT	31		58										
4	DI 1-40	SS 1-40	US 61/67	948+04.51	49.89 LT	948+20.69	29.35 LT	17				25								
6	DI 2-80	SS 2-80	US 61/67	957+92.89	33.50 LT	958+28.76	33.50 LT	26				34								
7	PCA 2-35	SS 2-35	US 61/67	962+15.68	31.77 LT	962+23.22	33.50 LT	7				6								
7	MH 2-30	SS 2-30	US 61/67	962+23.22	33.50 LT	962+28.46	32.98 LT	2		3										
10	BEND 3-05	SS 3-05	US 61/67	978+82.77	237.01 RT	979+39.87	236.94 RT	171						57	1			1		1
10	WYE 3-10	SS 3-10	US 61/67	978+51.88	206.20 RT	978+82.77	237.01 RT	126						42					1	1
10	BEND 3-11	SS 3-11	US 61/67	978+38.50	192.85 RT	978+51.88	206.20 RT	57						19				1		1
10	PCC 3-12	SS 3-12	US 61/67	978+32.65	192.36 RT	978+38.50	192.85 RT	18						6			1			1
10	MH 3-20	SS 3-20	US 61/67	978+51.84	109.76 RT	978+51.88	206.20 RT	173					94							
10	DI 3-30	SS 3-30	US 61/67	977+89.30	46.30 RT	978+51.84	109.76 RT	121					86							
10	DI 3-40	SS 3-40	US 61/67	977+86.53	30.50 RT	977+89.30	46.30 RT	17					15							
10	DI 3-41	SS 3-41	US 61/67	976+60.72	29.41 RT	977+86.32	28.64 RT	87			126									
10	T10 3-50	SS 3-50	US 61/67	977+77.37	31.17 LT	977+86.53	30.50 RT	69					60							
10	MH 3-51	SS 3-51	US 61/67	978+42.76	31.68 LT	977+77.37	31.17 LT	56				58								
10	T10 3-52	SS 3-52	US 61/67	979+21.18	30.87 LT	978+42.76	31.68 LT	65				71								
10	EX DCI 3-53	SS 3-53	US 61/67	979+99.78	34.55 LT	979+21.18	30.87 LT	56				70								
10	PCA 3-55	SS 3-55	US 61/67	977+77.63	38.57 LT	977+77.37	31.17 LT	3	4							1				
10	PCA 3-56	SS 3-56	US 61/67	978+42.93	35.79 LT	978+42.76	31.68 LT	1	2							1				
10	DI 3-60	SS 3-60	US 61/67	976+55.59	29.01 LT	977+77.37	31.17 LT	104					116							
							SUBTOTAL	1604	10	61	126	704	371	124	1	2	1	2	1	1
							PAY TOTAL	1719	10	61	126	704	371	124	1	2	1	2	1	1

* NO DIRECT PAY FOR SAWCUT OVER PIPE

INLETS & MANHOLES

PLAN SHEET NO (_ OF 11)	STRUCTURE ID	ROADWAY	STATION	OFFSET (FT)	CLASS 3 EXCAV. (CY)	CURVED VANE GRATE AND FRAME 2 FT X 2 FT (EA)	CURVED VANE GRATE AND FRAME 4 FT X 2 FT (EA)	CURB INLET (EA)	MANHOLE FRAME AND COVER TYPE 1-A (EA)	MANHOLE FRAME AND COVER TYPE 3 (EA)	PRECAST DROP INLET 3 FT X 3 FT (LF)	PRECAST CONCRETE MANHOLE 48 IN (LF)	PRECAST CONCRETE MANHOLE 60 IN (LF)
5	DI 1-10	US 61/67	951+33.80	30.50 LT	6	1					3		
5	DI 1-11	US 61/67	951+30.64	36.77 LT		1							
5	DI 1-20	US 61/67	949+99.71	29.00 LT	4	1					2		
4	DI 1-30	US 61/67	948+20.69	29+.35 LT	5	1					3		
4	DI 1-31	US 61/67	948+22.62	32.51 RT	4	1					3		
4	DI 1-40	US 61/67	948+04.51	49.89 LT	5	1					3		
7	MH 2-30	US 61/67	962+23.22	33.50 LT	7				1			3	
7	D 2-50	US 61/67	960+64.03	32.25 LT		1							
6	D 2-60	US 61/67	959+17.48	32.25 LT		1							
6	D 2-70	US 61/67	958+28.65	32.25 LT		1							
6	D 2-80	US 61/67	957+92.76	32.25 LT	6	1					1		
10	MH 3-20	US 61/67	978+51.84	109.76 RT	14				1				7
10	DI 3-30	US 61/67	977+89.30	46.30 RT	7	1					4		
10	DI 3-40	US 61/67	977+86.53	30.50 RT	7	1					4		
10	DI 3-41	US 61/67	976+57.71	29.00 RT	5	1					3		
10	T10 3-50	US 61/67	977+89.41	29.19 LT	16			4		4	4		
10	MH 3-51	US 61/67	978+42.76	31.68 LT	10				1			4	
10	T10 3-52	US 61/67	979+21.18	30.87 LT	14			4		4			
10	DI 3-60	US 61/67	976+55.59	29.01 LT	5		1						
10	DI 3-70	US 61/67	975+51.19	32.25 LT			1						
10	DI 3-80	US 61/67	975+14.69	30.50 LT		1							
10	DI 3-90	US 61/67	974+46.43	28.65 LT		1							
10	DI 3-110	US 61/67	971+86.90	34.63 LT		1							
10	T5 3-120	US 61/67	970+82.09	30.50 LT				2		2			
10	T5 3-130	US 61/67	969+98.97	30.50 LT				2		2			
				SUBTOTAL	115	16	2	12	3	12	30	7	7
				PAY TOTAL	*	16	2	12	3	12	30	7	7

* - SEE PIPE TABLE FOR TOTAL

SUMMARY OF QUANTITIES
SHEET 9 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED 4/9/2025

ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00	14	224			36	UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00	2	32			23	SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00	2	10			23	SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	14	224			2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00						ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32			6	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00	1	12			27	DETOUR (LEFT)
MO4-9R	48X36	12.00	1	12			27	DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	6	72			4	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	1	6.25				RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	5	50			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25				ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	731

616-10.10 RELOCATED SIGNS	TOTAL
	0

ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2024 DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	460	CHANNELIZER (TRIM LINE)
6161030	20	TYPE III MOVEABLE BARRICADE
6161033	131	DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6161099	4**	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

DISCLAIMER

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NOTE: ALL TRAFFIC CONTROL ARE INCLUDED IN PAY ITEM 616-99.01, LUMP SUM TEMPORARY TRAFFIC CONTROL UNLESS NOTED OTHERWISE IN THE PLANS. THESE QUANTITIES ARE ONLY AN ESTIMATE & ARE SUBJECT TO CHANGE BASED UPON FIELD CONDITIONS.

*SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
**NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL LUMP SUM BID. CMS LOCATION TO BE DETERMINED BY THE ENGINEER.
***FOR INFORMATION PURPOSES ONLY

NO DIRECT PAVEMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

MISC. LUMP SUM TEMPORARY TRAFFIC CONTROL = 1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 10 OF 10

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/16/2025 5:19:32 PM
William G. Krussel
MO PE-27561

DATE PREPARED 4/16/2025
ROUTE 61/67 | STATE MO
DISTRICT SL | SHEET NO. 3
COUNTY JEFFERSON
JOB NO. J6S3391
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

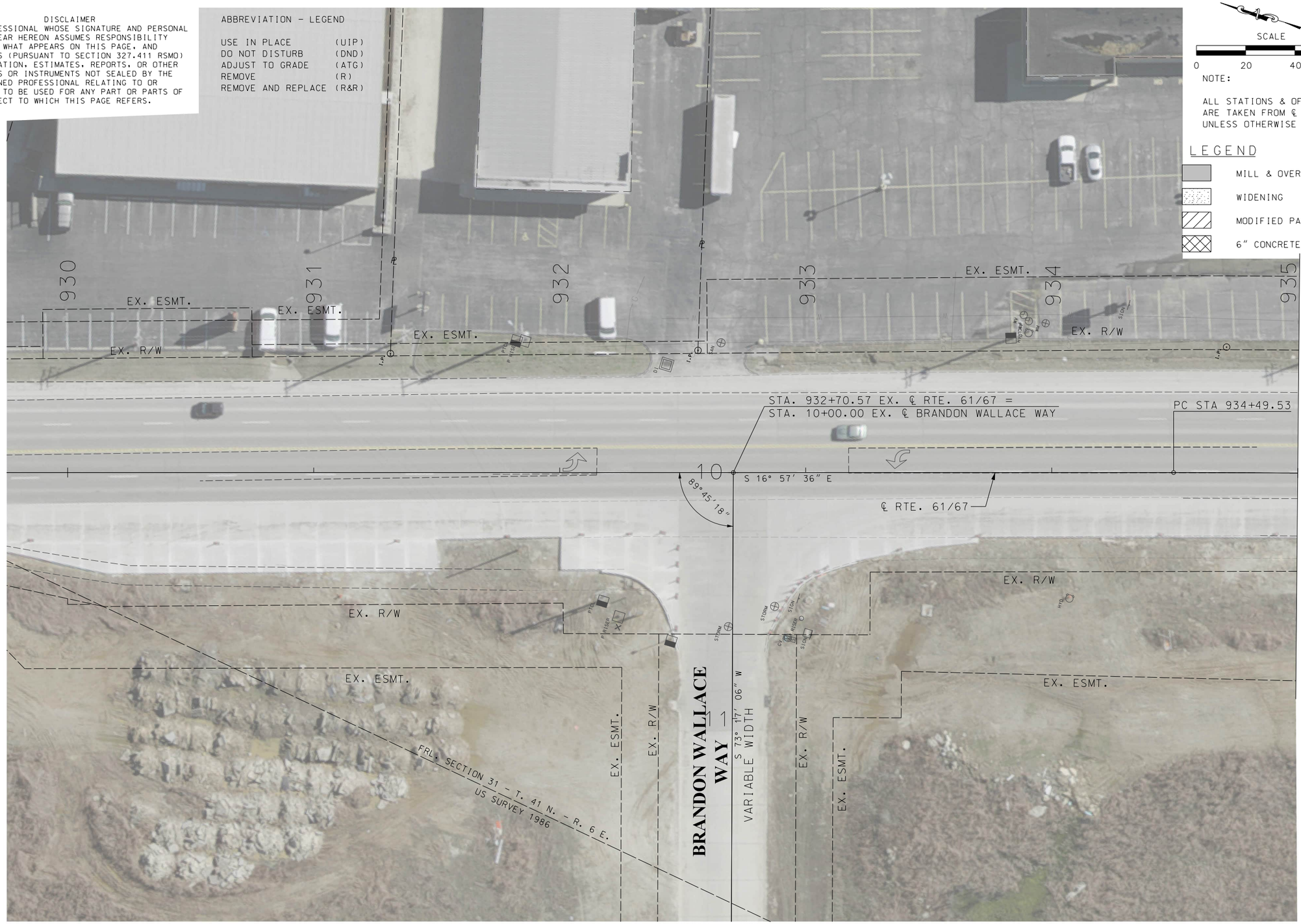
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
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ABBREVIATION - LEGEND

USE IN PLACE	(UIP)
DO NOT DISTURB	(DND)
ADJUST TO GRADE	(ATG)
REMOVE	(R)
REMOVE AND REPLACE	(R&R)



SCALE

0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

PLAN SHEET
SHEET
1 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	4

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

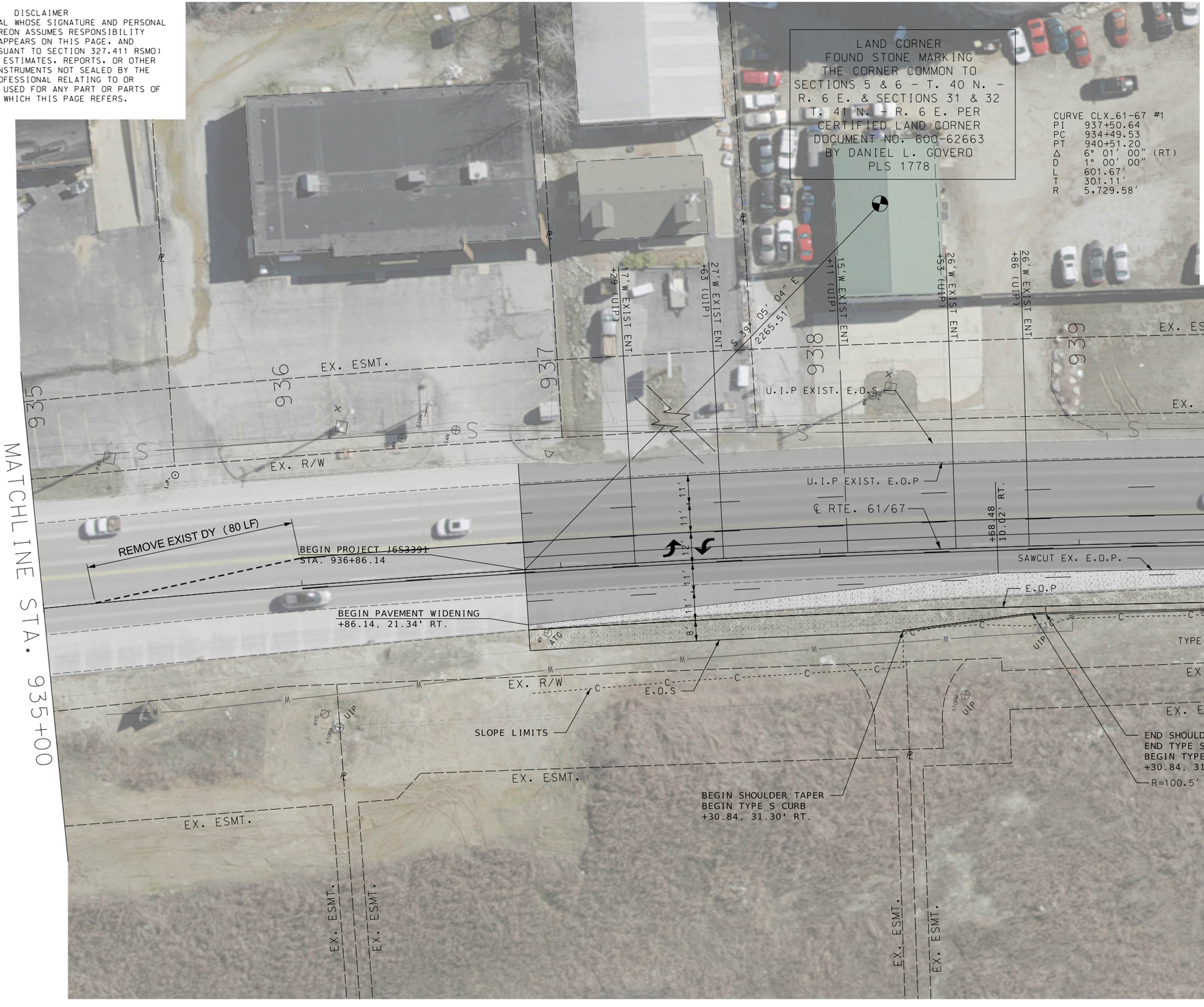
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
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SCALE
0 20 40 60

NOTE:

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH

PLAN SHEET
SHEET
2 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED	
4/9/2025	
ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	5
COUNTY	
JEFFERSON	
JOB NO.	
J6S3391	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SCALE

0 20 40 60

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

PLAN SHEET
SHEET
3 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	6

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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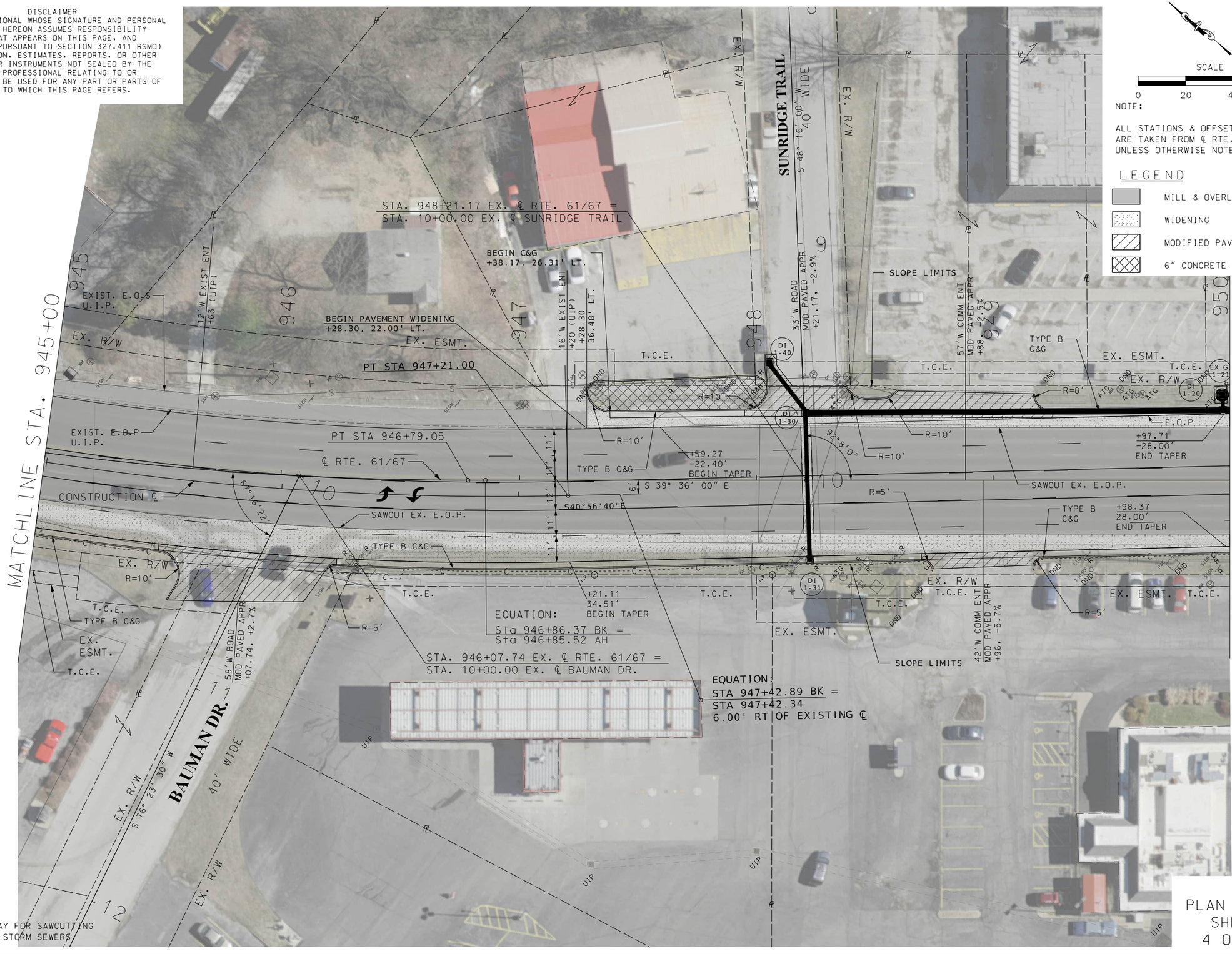
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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

NOTE:

NO DIRECT PAY FOR SAWCUTTING TRENCH OVER STORM SEWERS.

PLAN SHEET
SHEET
4 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	7

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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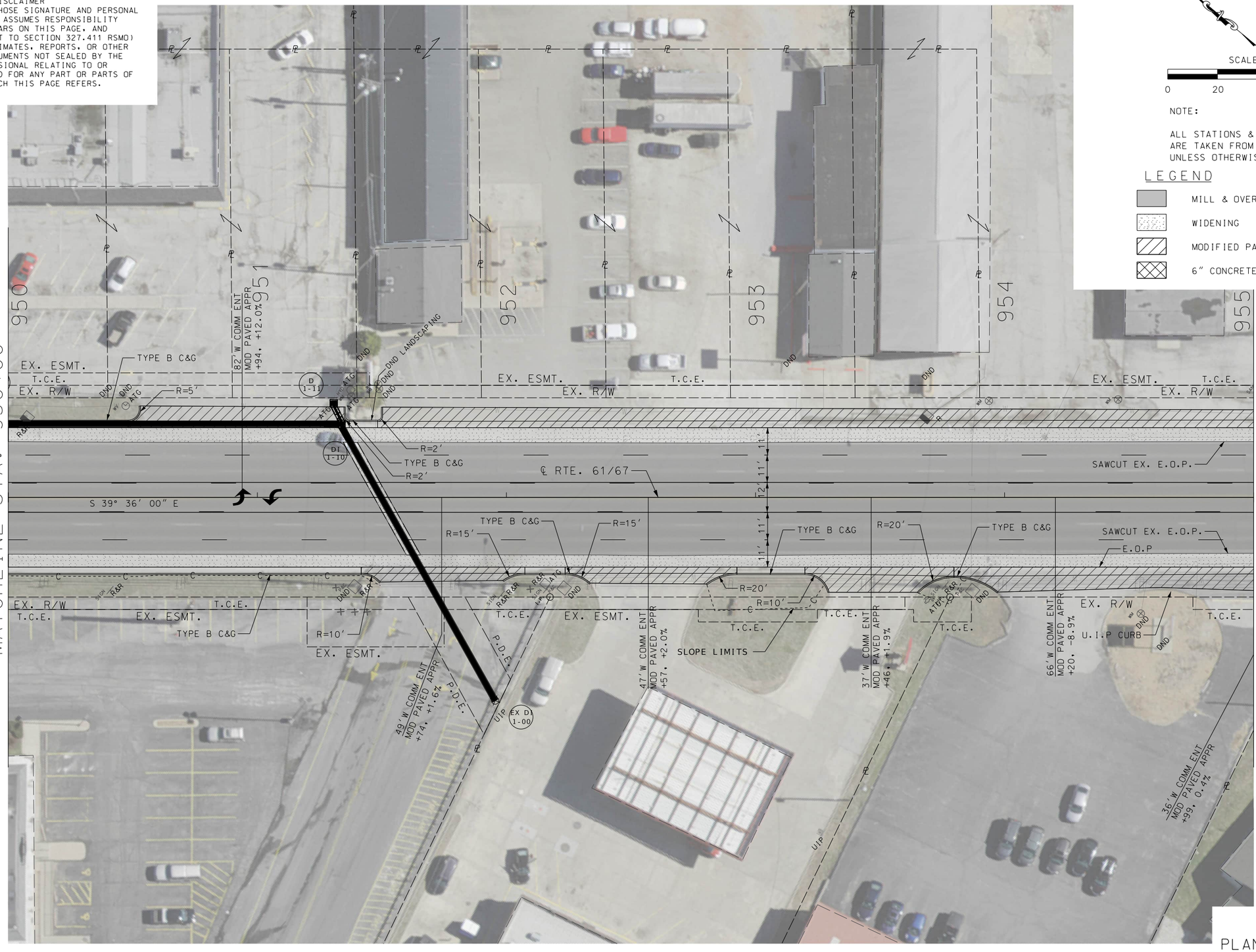
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SCALE

0 20 40 60

NOTE:

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

NOTE:

NO DIRECT PAY FOR SAWCUTTING TRENCH OVER STORM SEWERS.

PLAN SHEET
SHEET
5 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	8

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

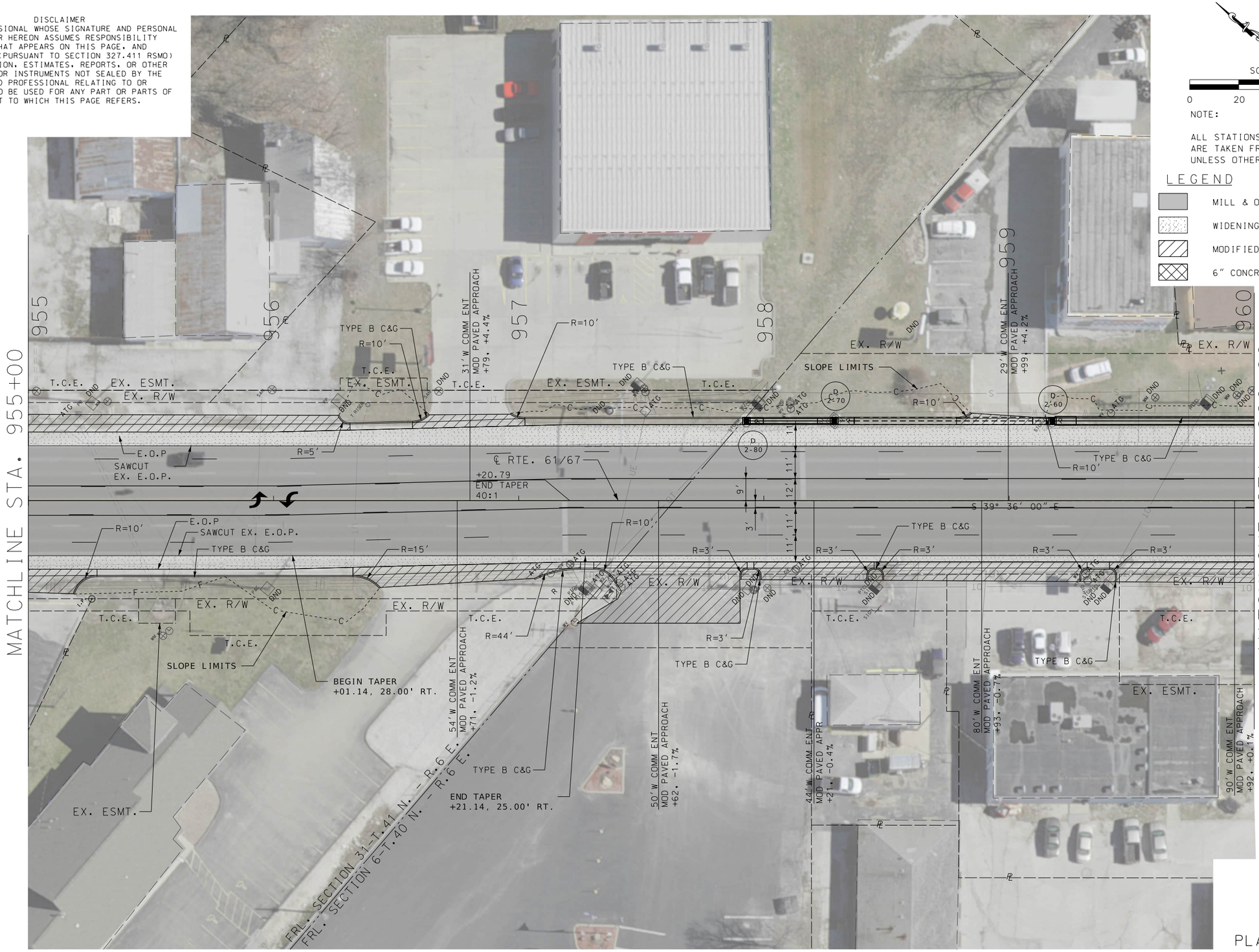
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



PLAN SHEET
SHEET
6 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	9

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

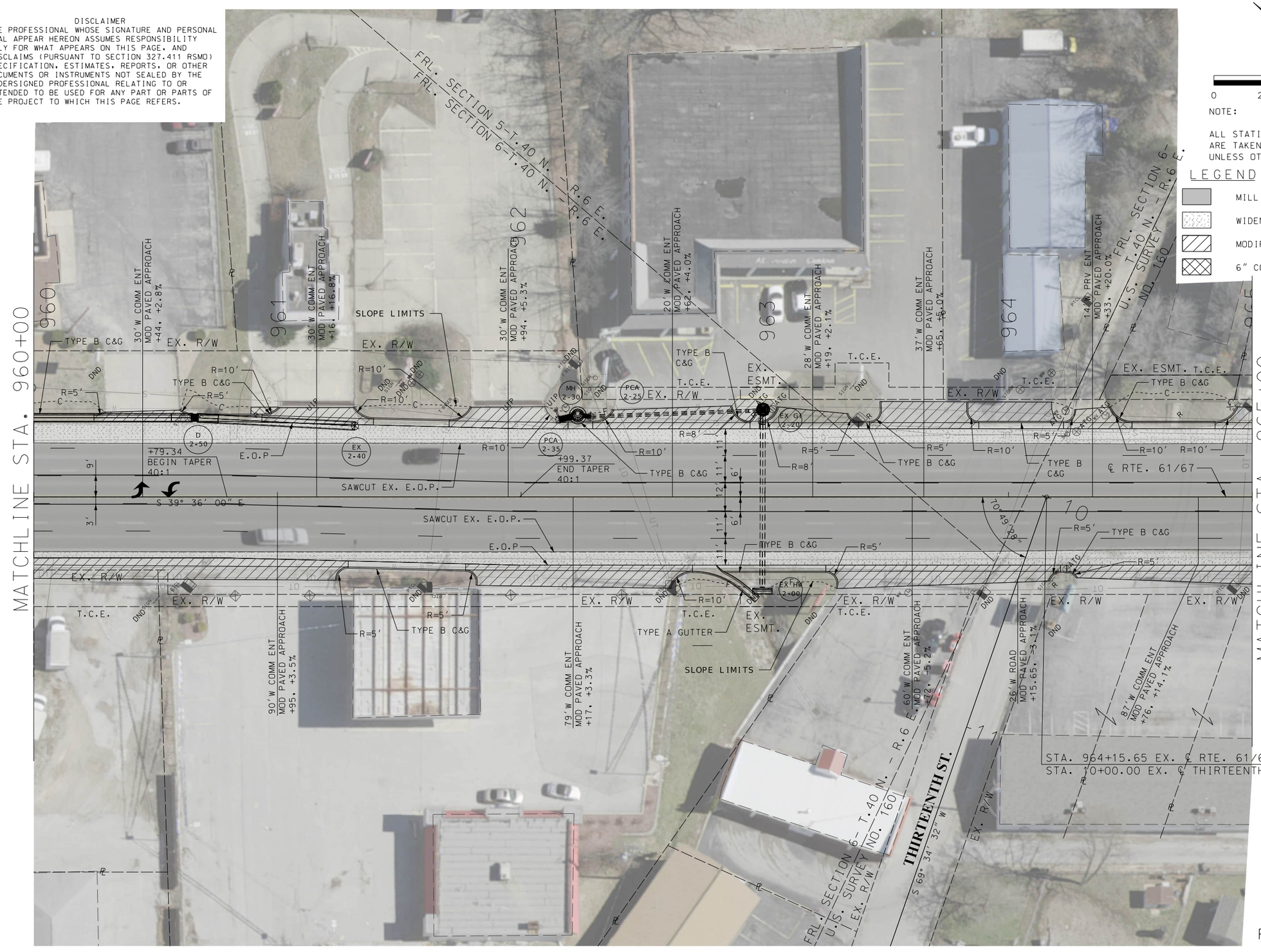
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

WSP
211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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SCALE
0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

PLAN SHEET
SHEET
7 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	10

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

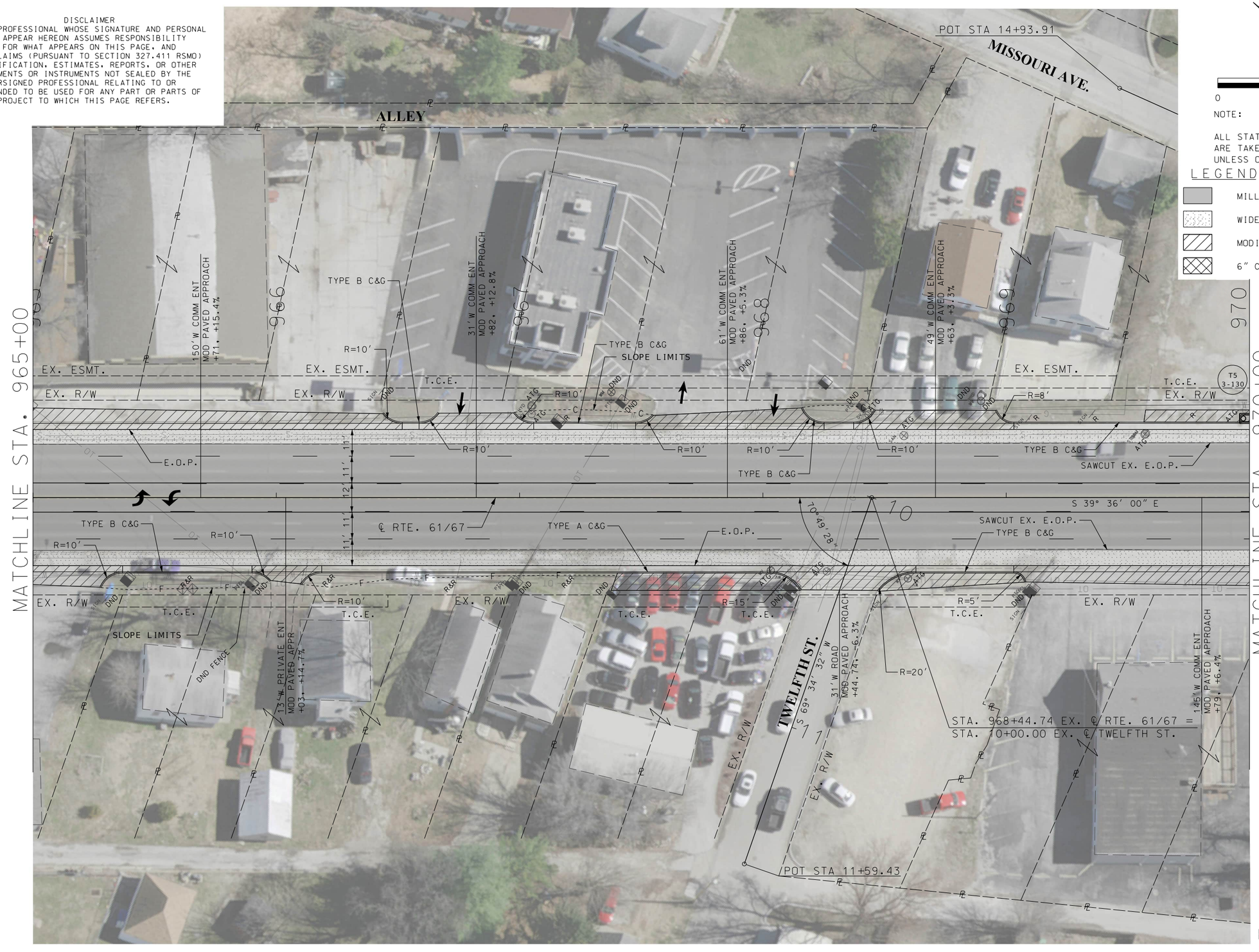
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SCALE
0 20 40 60

NOTE:

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

PLAN SHEET
SHEET
8 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	11

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

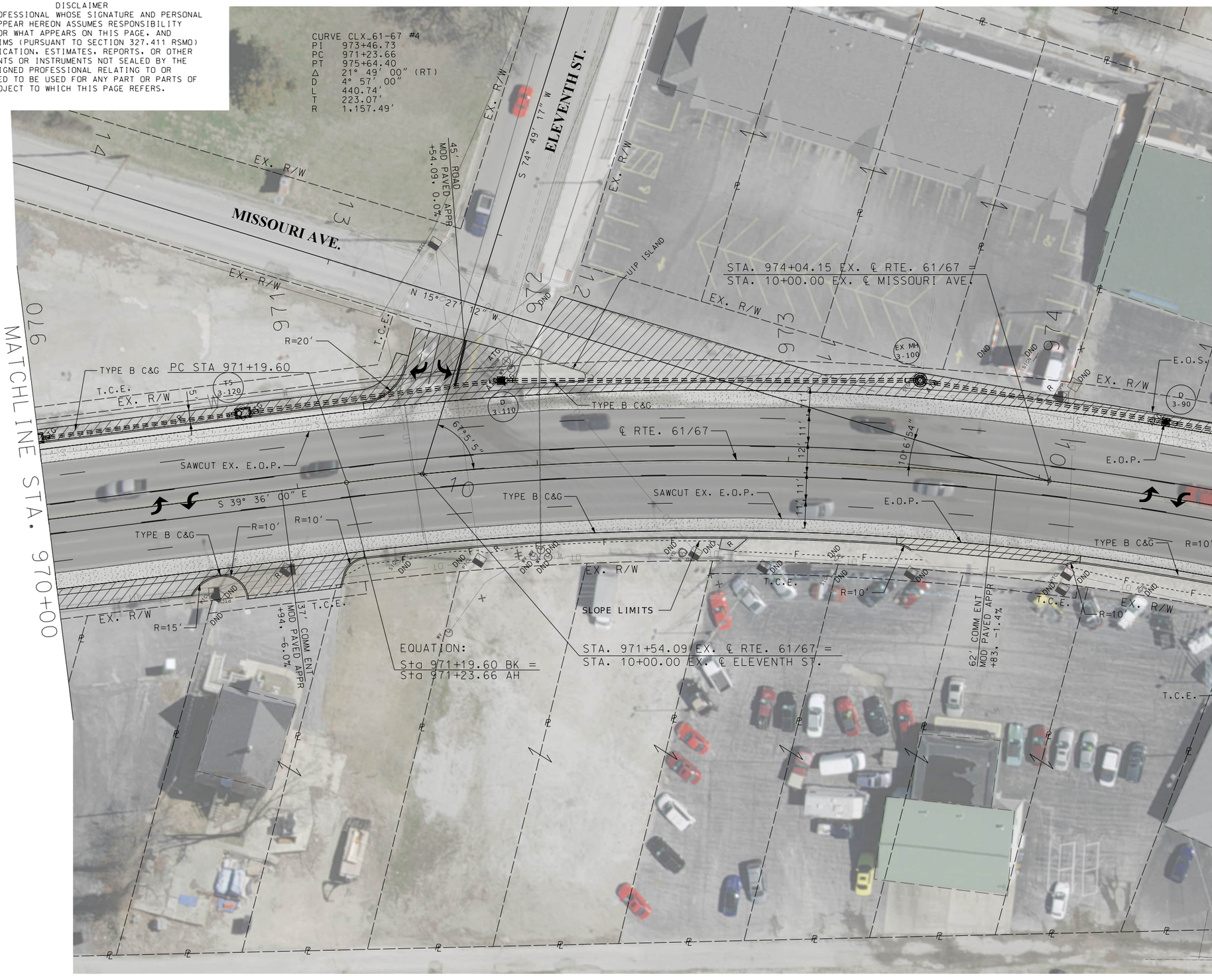
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SCALE
0 20 40 60

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

PLAN SHEET
SHEET
9 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	12

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

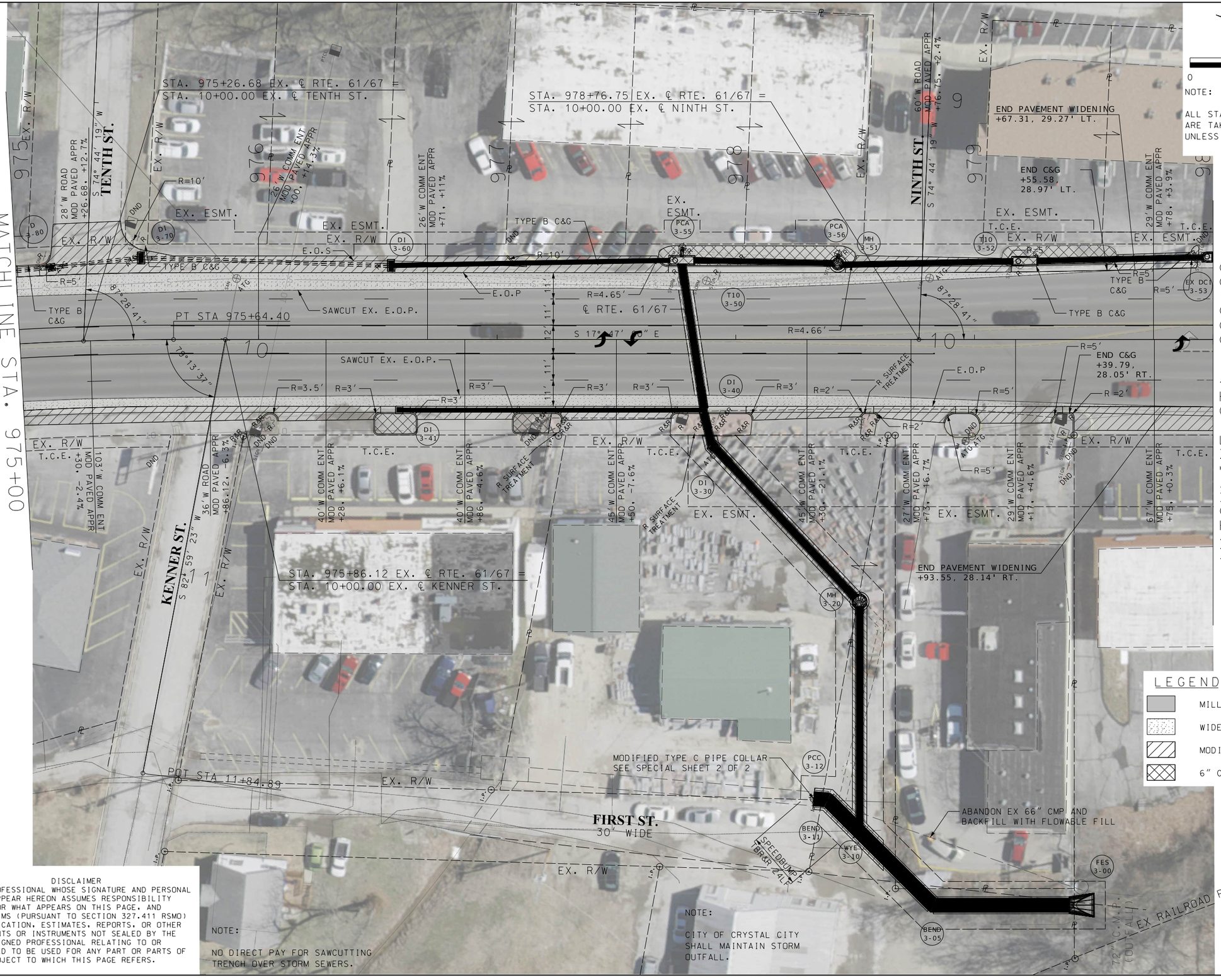
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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SCALE

0 20 40 60

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LEGEND

- MILL & OVERLAY
- WIDENING
- MODIFIED PAVED APPROACH
- 6" CONCRETE PAVEMENT

NOTE:

NO DIRECT PAY FOR SAWCUTTING TRENCH OVER STORM SEWERS.

NOTE:

CITY OF CRYSTAL CITY SHALL MAINTAIN STORM OUTFALL.

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PLAN SHEET
SHEET
10 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	13

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
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MATCHLINE STA. 980+00

980
981
982
983
984

EIGHTH ST.
S 74° 44' 19" W

EXIST. R/W
EXIST. ESMT.
EXIST. R/W

T.C.E.
EX DCI
EX. E.O.P.
END PROJECT STA. 980+14.40
FULL DEPTH MILLING 2" & OVERLAY
SAWCUT EX. E.O.P.
TYPE B C&G
EX. E.O.P.
R=5'
T.C.E.

12'
12'
12'
12'

87° 28' 41"
66° 48' 17"

℄ RTE. 61/67
S 17° 47' 00" E

STA. 982+26.07 EX. ℄ RTE. 61/67 =
STA. 5+00.00 EX. ℄ EIGHTH ST.

STA. 982+21.40 EX. ℄ RTE. 61/67 =
STA. 10+00.00 EX. ℄ SIXTH ST.

SIXTH ST.
S 49° 01' 16" W

EXIST. R/W
EXIST. R/W
EXIST. ESMT.
EXIST. R/W

POT STA 11+78.87

SCALE
0 20 40 60

NOTE:

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ARE TAKEN FROM ℄ RTE. 61/67
UNLESS OTHERWISE NOTED.

LEGEND

MILL & OVERLAY
WIDENING
8" CONCRETE APRON

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PLAN SHEET
SHEET
11 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	14

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

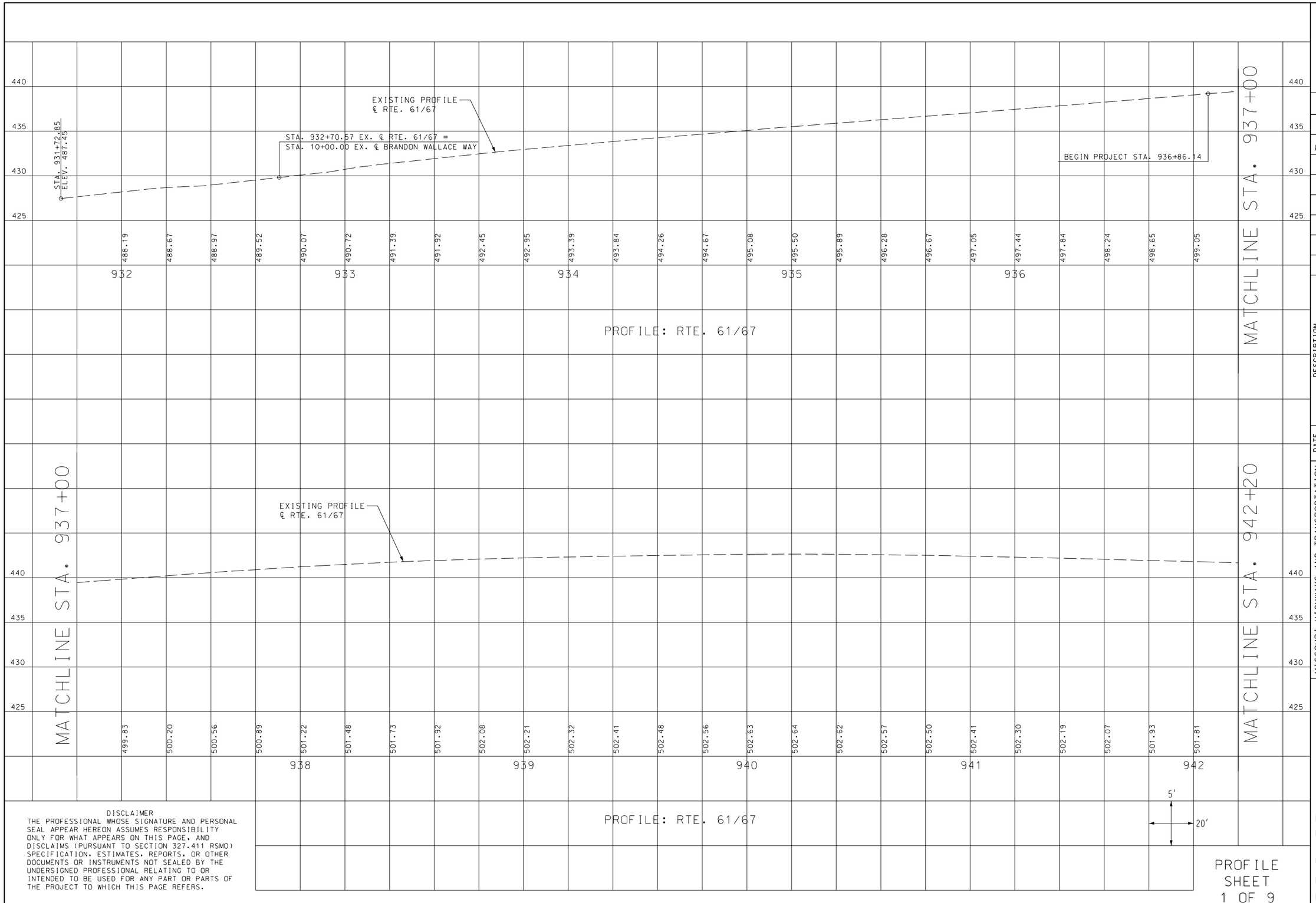
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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PROFILE
SHEET
1 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	15

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

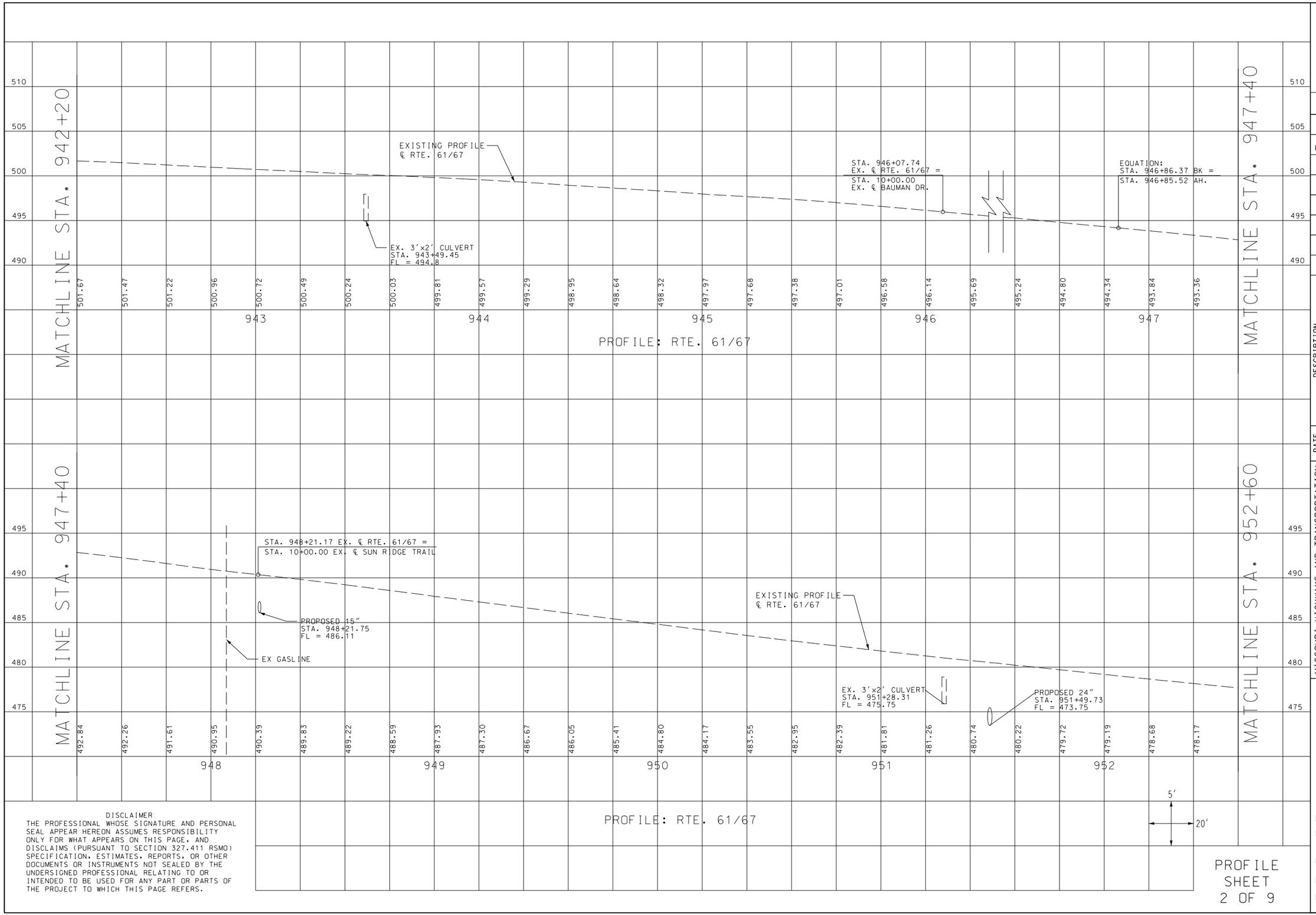
DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
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PROFILE
SHEET
2 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	16

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

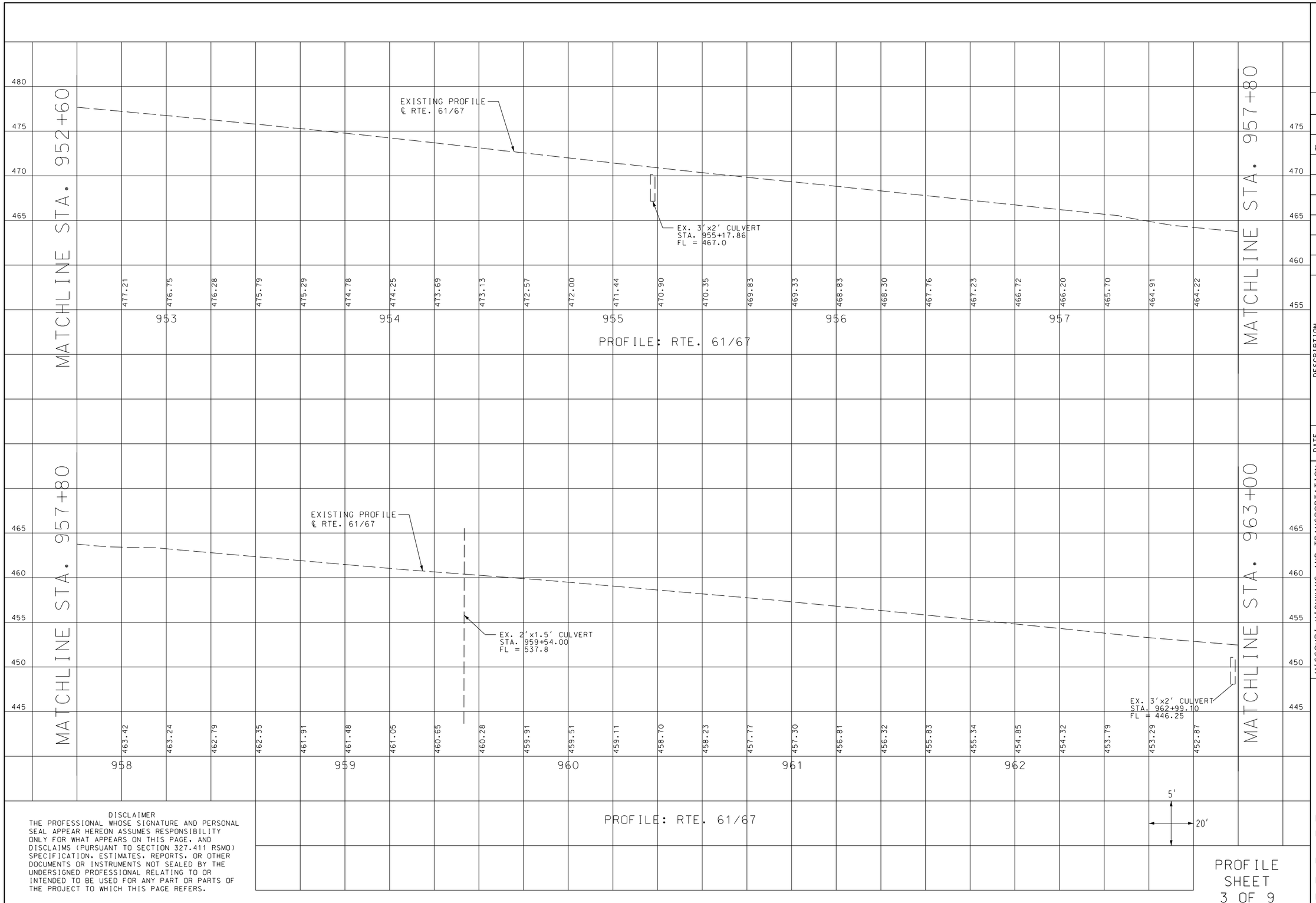
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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PROFILE
SHEET
3 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
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04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	17

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

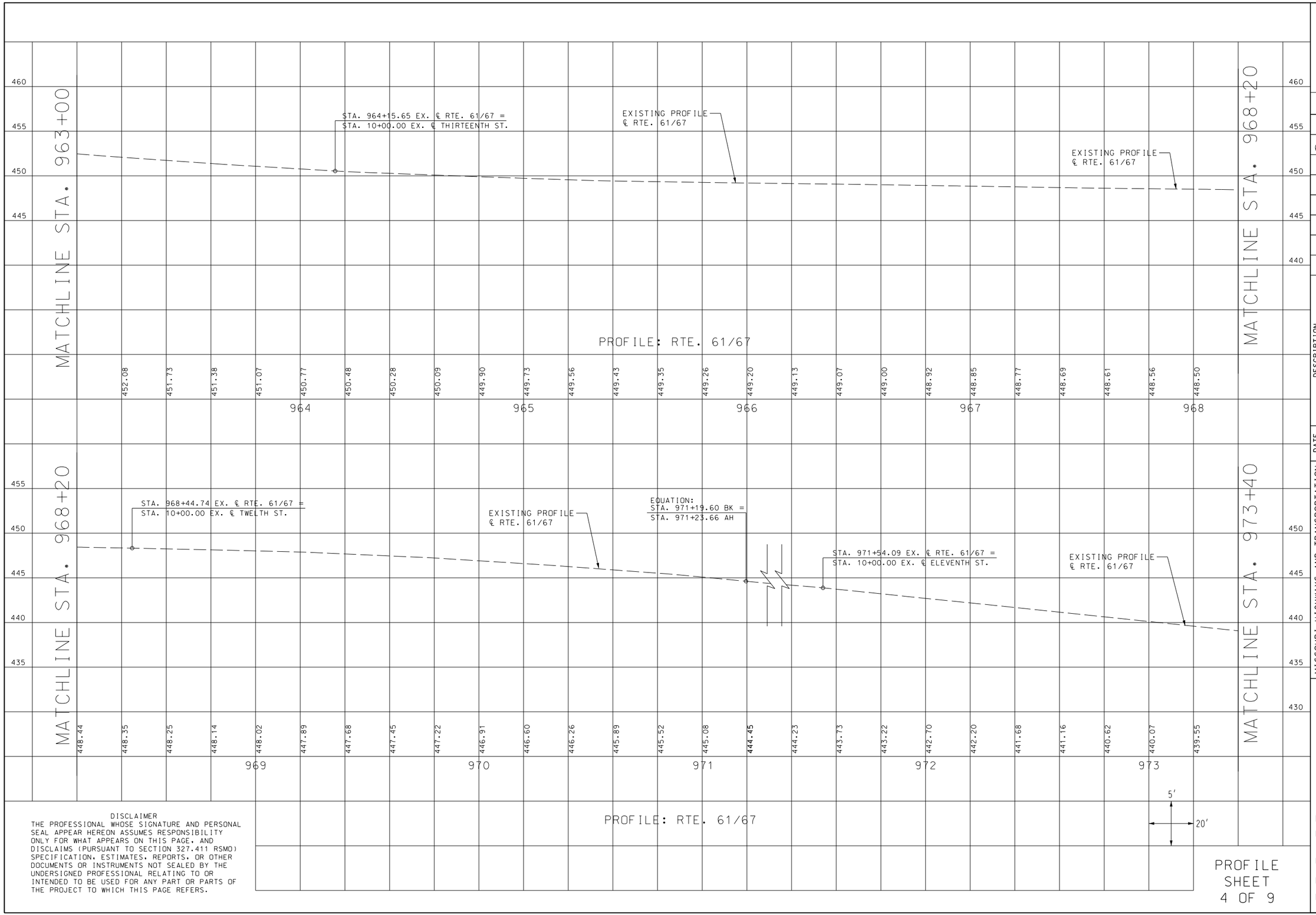
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PROFILE
SHEET
4 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
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04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	18

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

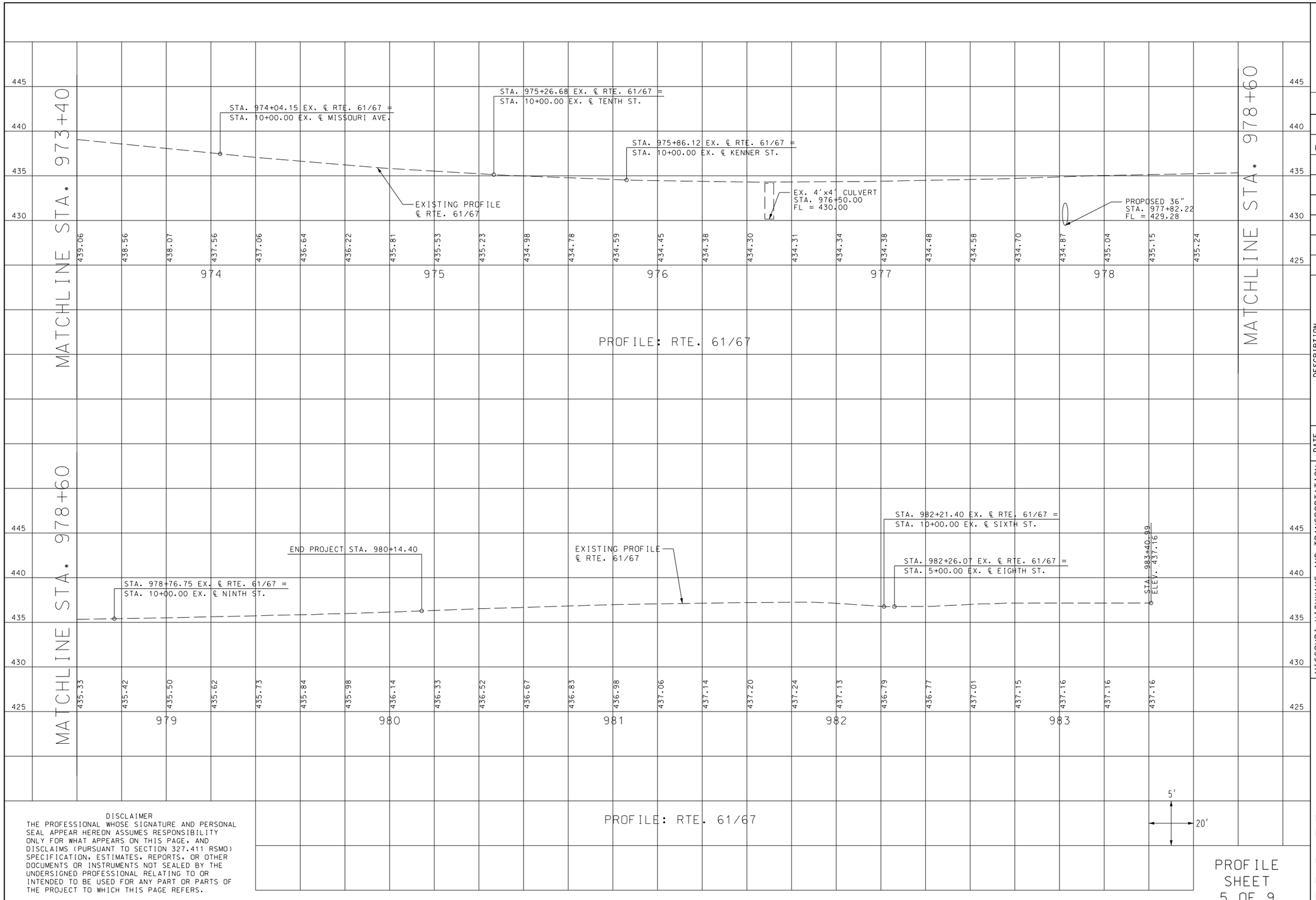
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PROFILE
SHEET
5 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
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04/09/2025 12:49:56 PM
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MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	19

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

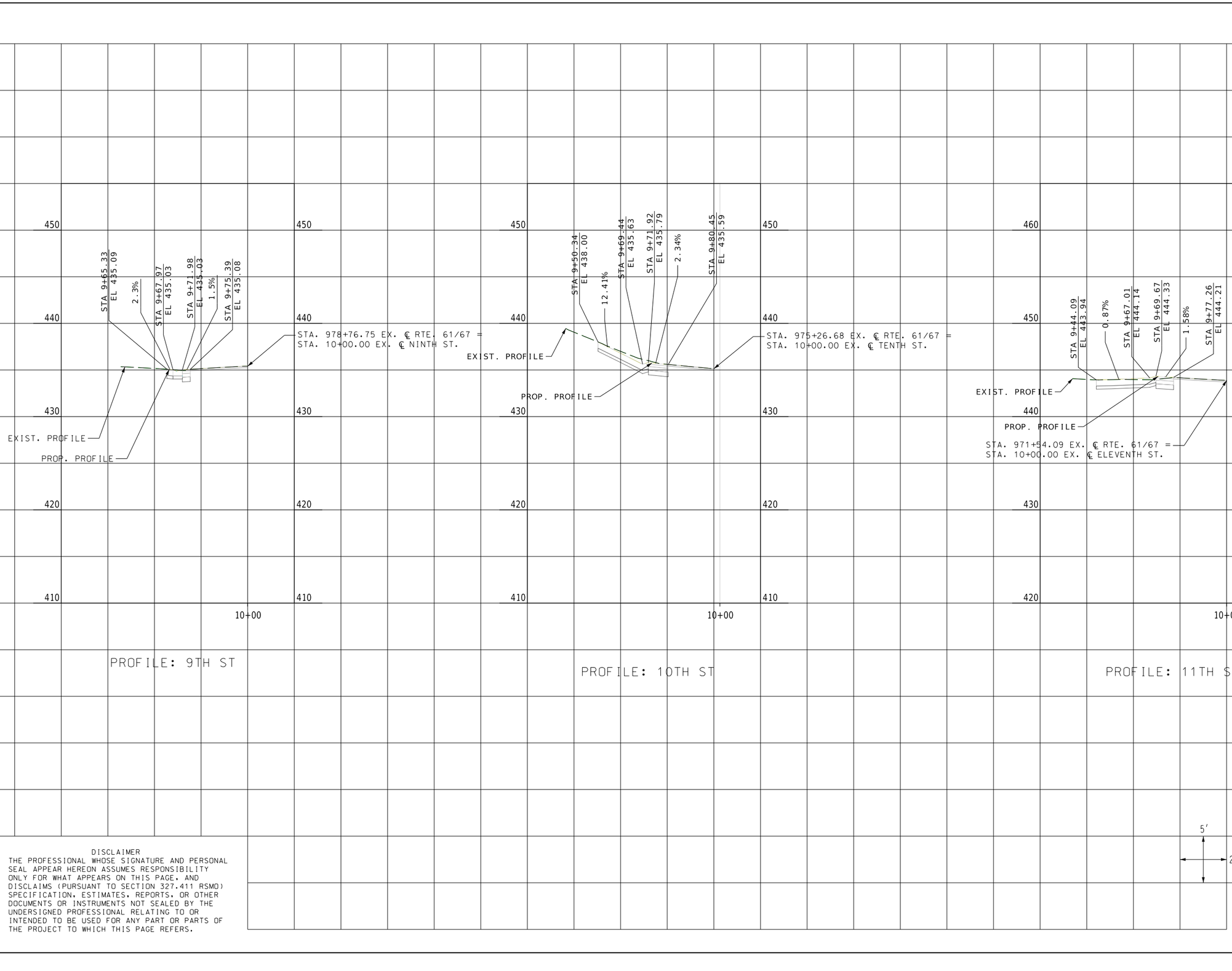
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PROFILE
SHEET
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04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

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61/67	MO
DISTRICT	SHEET NO.
SL	20

COUNTY
JEFFERSON

JOB NO.
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CONTRACT ID.

PROJECT NO.

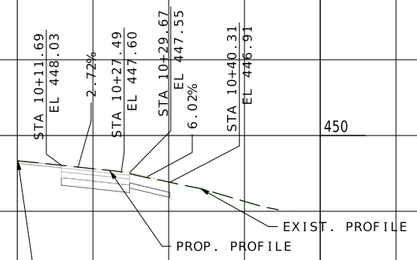
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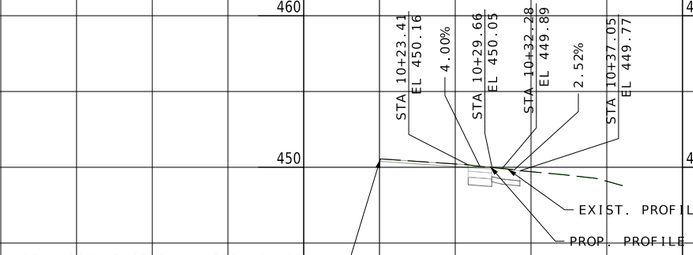
DATE	DESCRIPTION

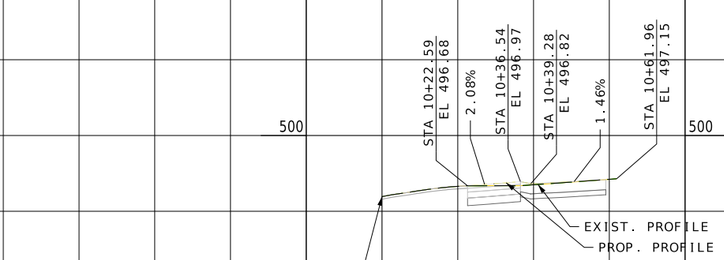
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ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
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PROFILE: 12TH ST

PROFILE: 13TH ST

PROFILE: BAUMAN DR

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5′
20′

PROFILE
SHEET
7 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	21

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

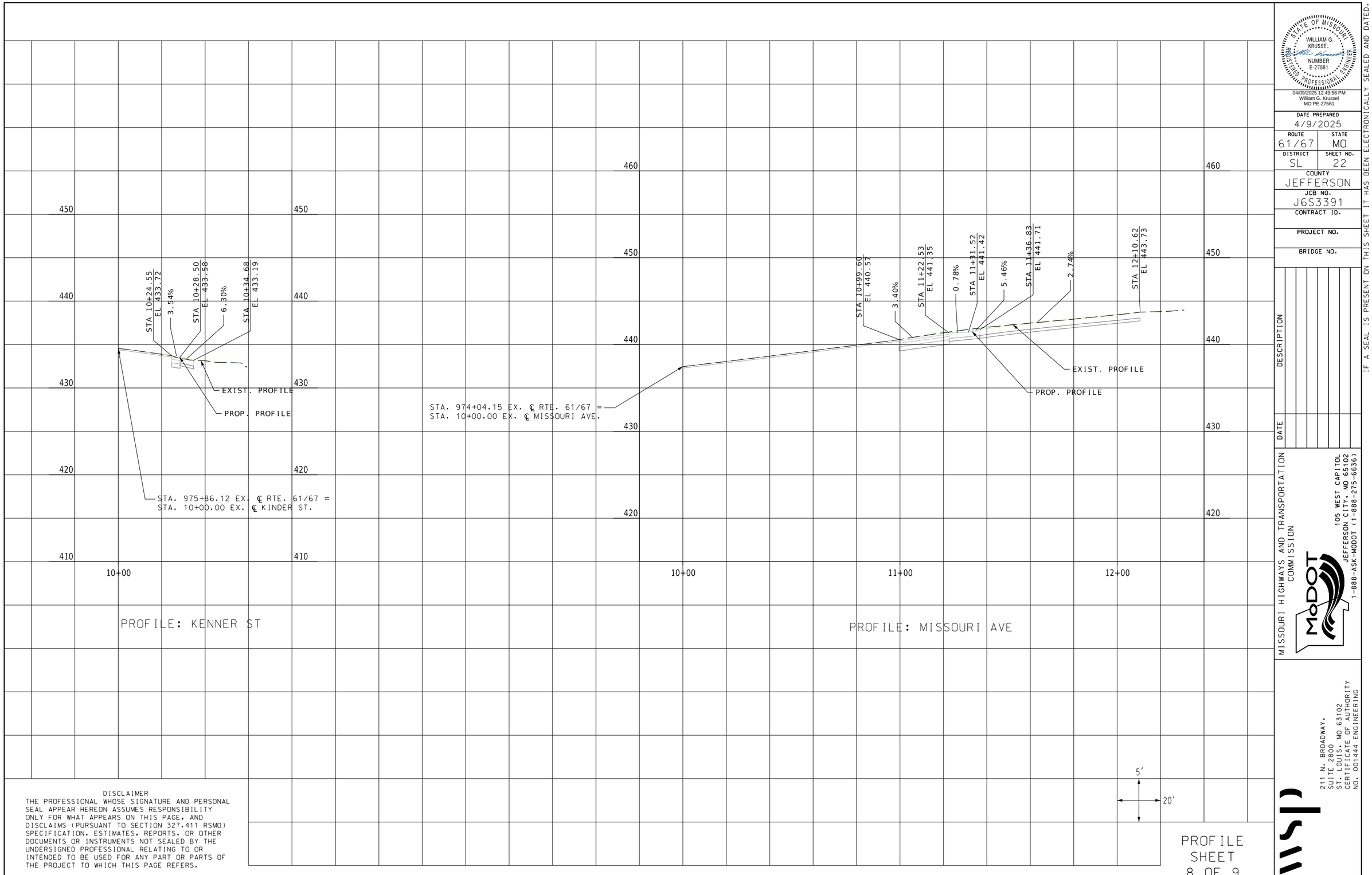
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



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PROFILE
SHEET
8 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	22

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

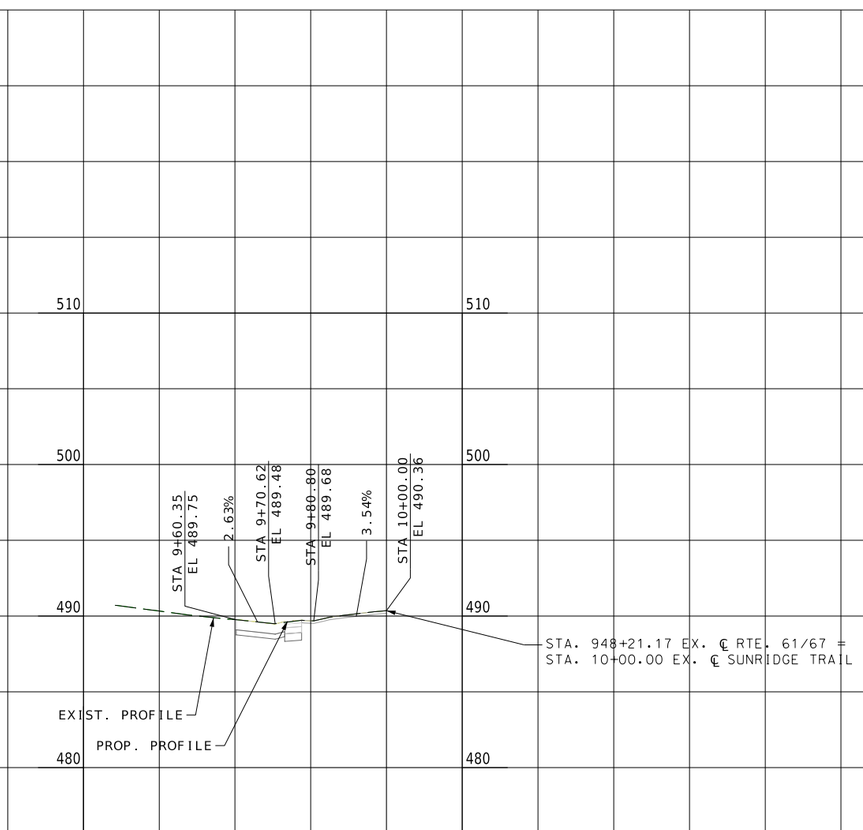
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



PROFILE: SUNRIDGE TRAIL

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5′
20′

PROFILE
SHEET
9 OF 9

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	23

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

WSP
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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RIGHT OF WAY LIMITS FOR THE PROJECT EXTEND FROM STA. 936+86.54 TO STA. 980+14.40.

SCALE
0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND
- MILL & OVERLAY
- WIDENING

930 931 932 933 934 935

+90.00 +75.00 +00.00 -46.40 EX. R/W EX. ESMT. 20' 5'

+26.71 -62.42 +31.17 -47.45 +56.14 -48.45 EX. ESMT. EX. ESMT. 30'

N/F
D & T COLE PROPERTIES, LLC
DOC. # 2016R-022015
(NO TAKINGS)

+90.00 -53.48' & -78.48'

N/F
RL JONES PROPERTIES, LLC
DOC. # 2016R-029981
(NO TAKINGS)

+49.53 -80.00 EX. ESMT. EX. R/W +49.53 -50.00

STA. 932+70.57 EX. ℄ RTE. 61/67 =
STA. 10+00.00 EX. ℄ BRANDON WALLACE WAY

PC STA 934+49.53

10 S 16° 57' 36" E 89°45'18"

℄ RTE. 61/67

MATCHLINE STA. 935+00

EX. R/W +14.68 54.46 EX. ESMT. +82.49 79.72

LOT E
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

FRL. SECTION 31 - T. 41 N. - R. 6 E.
US SURVEY 1986

+01.40 53.09 +01.49 65.45 +25.23 79.21 +40.29 65.62 EX. ESMT. EX. R/W

11 S 73° 17' 06" W

EX. R/W +26.22 40.48 +26.11 65.99 +96.29 65.86 EX. ESMT. +38.89 80.80 +38.81 99.73 +11.14 99.61 EX. ESMT. EX. R/W

LOT C
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
1 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	24

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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N/F
GREGORY ALAN HOLDINGHAUSEN &
JACQUELINE LYNNE HOLDINGHAUSEN,
CO-TRUSTEES OF THE HOLDINGHAUSEN
FAMILY REVOCABLE TRUST OF 2017
DOC. # 2017R-028345
(NO TAKINGS)

LAND CORNER
FOUND STONE MARKING
THE CORNER COMMON TO
SECTIONS 5 & 6 - T. 40 N. -
R. 6 E. & SECTIONS 31 & 32
T. 41 N. - R. 6 E. PER
CERTIFIED LAND CORNER
DOCUMENT NO. 600-62663
BY DANIEL L. GOVERO
PLS 1778

CURVE CLX_61-67 #1
PI 937+50.64
PC 934+49.53
PT 940+51.20
Δ 6° 01' 00" (RT)
D 1° 00' 00"
L 601.67'
T 301.11'
R 5,729.58'

SCALE
0 20 40 60

NOTE:
ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND
MILL & OVERLAY
WIDENING

N/F
E.S. CHAP, INC.
DOC. # 040038208
(NO TAKINGS)

N/F
KURT D. BREEZE & WILLIAM M. SEEK
CO-TRUSTEES UNDER THE JOHN J.
SCHNEIDER, JR. TRUST AGREEMENT
DOC. # 030040005
(NO TAKINGS)

N/F
R L JONES PROPERTIES, LLC
DOC. # 2016R-029981
(NO TAKINGS)

BEGIN PROJECT STA. 936+86.14
FULL DEPTH MILLING 2" & OVERLAY

S 39° 05' 04" E
2265.51'

935 936 937 938 939 940

EX. ESMT.
EX. R/W
30'
50'
+55.01 / -50.00'
+03.54 / -50.00'
+77.90 / -50.00'

MATCHLINE STA. 935+00

℄ RTE. 61/67
11' 11' 12' 11' 11'

MATCHLINE STA. 940+00

E.O.P
E.O.S
C

+26.43 / 39.51'
+10.39 / 38.96'
+90.42 / 38.27'
+40.35 / 75.63'
+05.11 / 85.06'
+30.30 / 84.92'
+15.26 / 85.02'
+31.74 / 42.91'
+26.52 / 79.56'
+36.64 / 83.40'
+68.69 / 42.75'
+68.73 / 47.75'
+71.31 / 62.73'
+71.27 / 83.41'

LOT C
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

LOT B
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

LOT A
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
2 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	25

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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CURVE CLP_61-67 #1
PI 942+59.21
PC 941+17.52
PT 943+98.95
Δ 16°29'14.1" (LT)
D 5°51'30.5"
L 281.43' (ARC)
T 141.69'
R 978.00'

CURVE CLX_61-67 #2
PI 942+59.71
PC 941+39.10
PT 943+78.15
Δ 18° 45' 58" (LT)
D 7° 51' 00"
L 239.06'
T 120.61'
R 729.88'

CURVE CLP_61-67 #2
PI 945+72.16
PC 944+21.93
PT 947+21.00
Δ 13°30'49.7" (LT)
D 4°31'6.9"
L 299.07' (ARC)
T 150.23'
R 1,268.00'

CURVE CLX_61-67 #3
PI 945+60.18
PC 944+40.72
PT 946+79.05
Δ 9° 53' 27" (LT)
D 4° 09' 00"
L 238.33'
T 119.46'
R 1,380.62'

SCALE
0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND
MILL & OVERLAY
WIDENING

N/F
KURT D. BREEZE & WILLIAM M. SEEK
CO-TRUSTEES UNDER THE JOHN J. SCHNEIDER, JR. TRUST AGREEMENT
DOC. # 030040005
(NO TAKINGS)

N/F
KALLISTE MANAGEMENT, LLC
DOC. # 2017R-038834
(NO TAKINGS)

N/F
BLAKELY PROPERTIES & RENTALS LLC
DOC. # 2013R-007761
(NO TAKINGS)

N/F
CP REALTY CORP.
(NO TAKINGS)

MATCHLINE STA. 940+00

MATCHLINE STA. 945+00

EX. ESMT.
EX. R/W
℄ RTE. 61/67
PT STA 940+51.20
PC STA 941+39.10
S 10° 56' 36" E
PC STA 941+17.52
4.70' LT OF EXISTING ℄
PT STA 943+78.15
PC STA 944+40.72
PT STA 943+98.95
PC STA 944+21.93
S 29° 42' 34" E
S27°25'50"E
T.C.E.
EX. ESMT.
EX. R/W

LOT A
TRUMAN VILLAGE
P.B. 251/P. 1-5
N/F
JAMAICAN FOLLY, LLC
DOC. # 2007R-002105
(NO TAKINGS)

① PROPERTY N/F OF
INTERVENTIONAL PAIN INSTITUTE, LLC
DOC. #2019R-010375
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (271 SF) TEMP. ESM'T.
0.59 ACRES REMAINING

② PROPERTY N/F OF
JOHN T. SCHWENT AND MICHELE KAIDO SCHWENT
DOC. #2019R-010374
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (559 SF) TEMP. ESM'T.
0.32 ACRES REMAINING

③ PROPERTY N/F OF
MRV BANK
DOC. #2018R-004966
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.04 AC. (1851 SF) TEMP. ESM'T.
0.91 ACRES REMAINING

④ PROPERTY N/F OF
COMMUNITY CAR WASH PROPERTIES, LLC
DOC. #2018R-019610
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.06 AC. (2403 SF) TEMP. ESM'T.
0.60 ACRES REMAINING

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
3 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	26

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

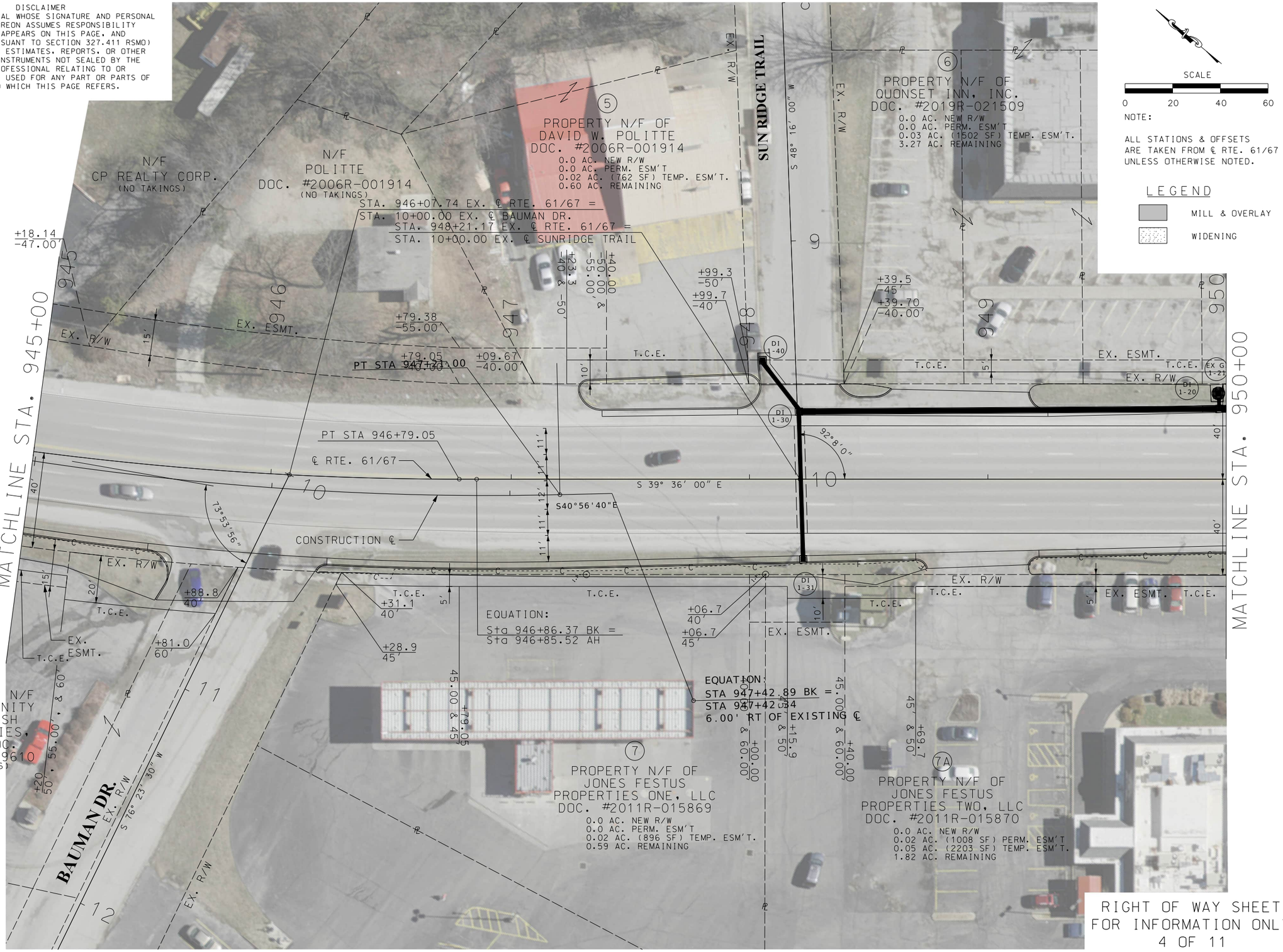
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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SCALE
0 20 40 60

NOTE:
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LEGEND
MILL & OVERLAY
WIDENING

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
4 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED: 4/9/2025
ROUTE: 61/67
STATE: MO
DISTRICT: SL
SHEET NO.: 27
COUNTY: JEFFERSON
JOB NO.: J6S3391
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

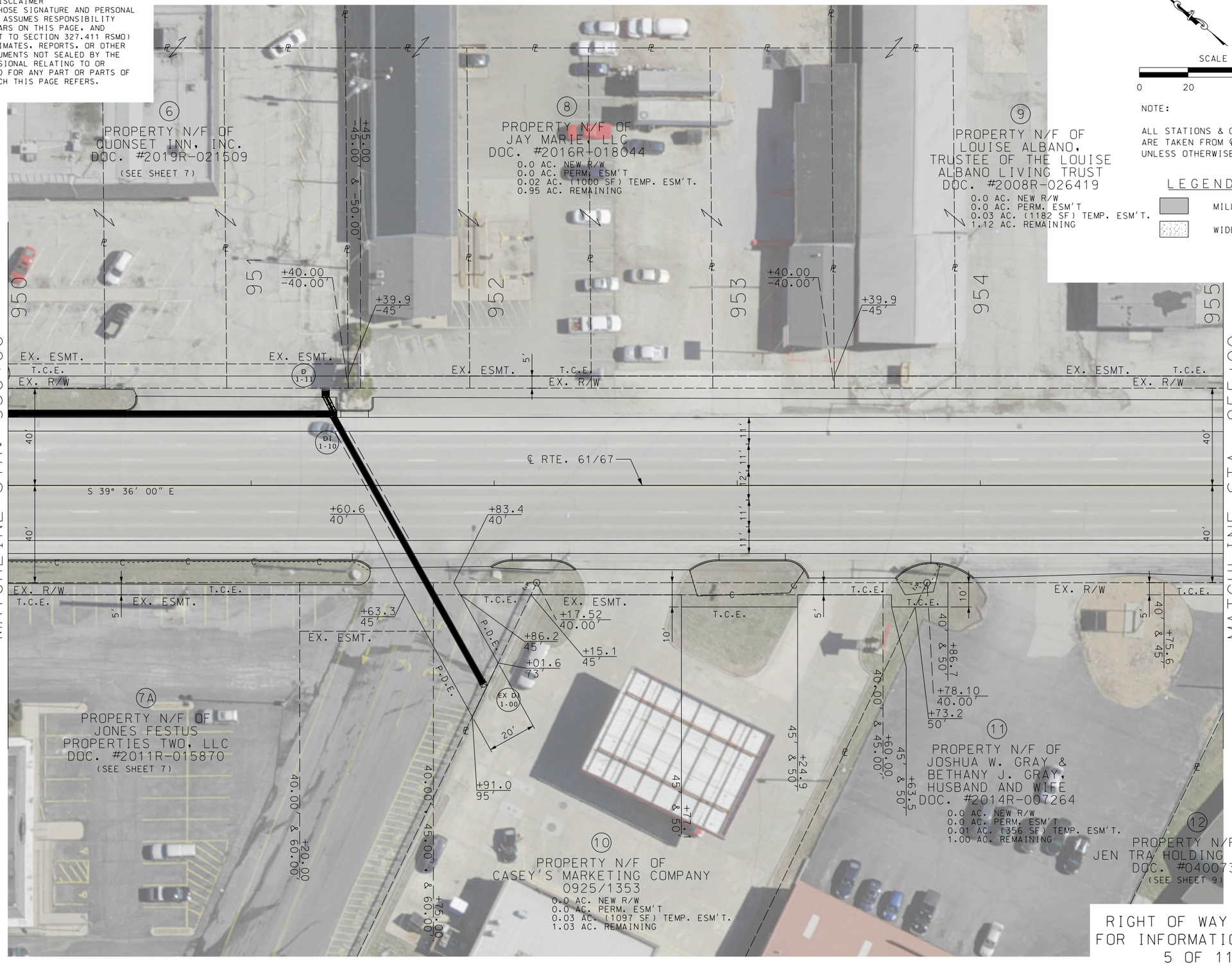
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RIGHT OF WAY SHEET
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5 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
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04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	28

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

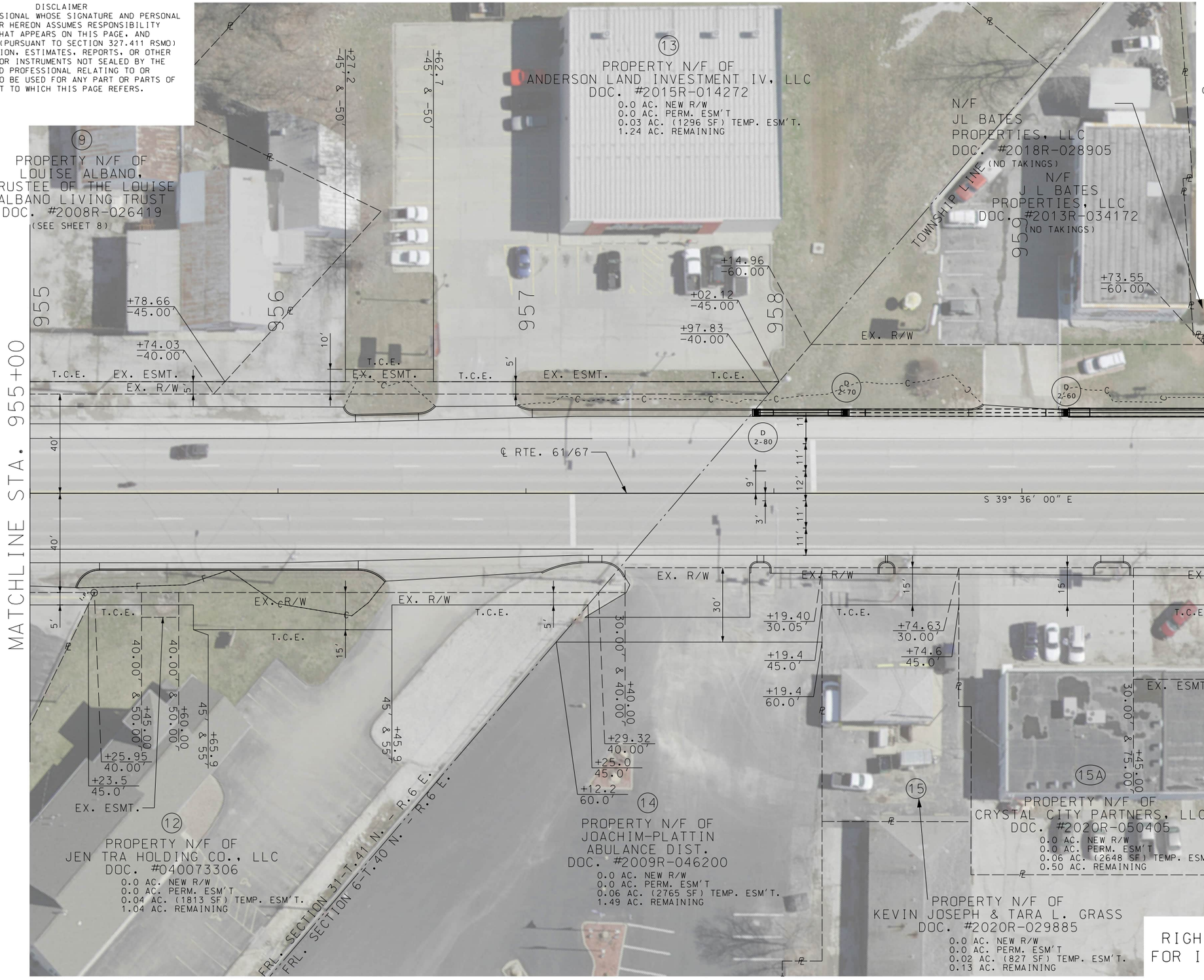
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

WSP
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SUITE 2800
ST. LOUIS, MO 63102
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SCALE
0 20 40 60

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LEGEND

MILL & OVERLAY

WIDENING

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
6 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	29

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

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N/F
JL BATES
PROPERTIES, LLC
DOC. # 2018R-028905
(NO TAKINGS)

N/F
RALLY STORAGE LLC
DOC. # 2019R-005211
(NO TAKINGS)

FRL. SECTION 5-T.40 N. - R.6 E.
FRL. SECTION 6-T.40 N. - R.6 E.

16
PROPERTY N/F OF
H & H CENTRE, LLC
DOC. #2015R-009749
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.02 AC. (962 SF) TEMP. ESM'T.
0.63 AC. REMAINING

17
PROPERTY N/F OF
DORLAC PROPERTIES, LLC
DOC. #2013R-023204
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (271 SF) TEMP. ESM'T.
0.39 AC. REMAINING

PROPERTY N/F OF
MVD PROPERTIES, LLC
DOC. #2006R-002569
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (542 SF) TEMP. ESM'T.
0.11 AC. REMAINING

FRL. SECTION 6-T.40 N. - R.6 E.
U.S. SURVEY NO. 160

SCALE
0 20 40 60

NOTE:
ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND
MILL & OVERLAY
WIDENING

MATCHLINE STA. 960+00

MATCHLINE STA. 965+00

EX. R/W
EX. ESMT.
T.C.E.
℄ RTE. 61/67
EX ℄ R/W
MH 2-30
PCA 2-25
PCA 2-35
EX 2-40
D 2-50
EX G 2-20
EX HW 2-00
S 39° 36' 00" E
70° 49' 28"
S 69° 34' 32" W
FRL. SECTION 6-T.40 N. - R.6 E.
U.S. SURVEY NO. 160
THIRTEENTH ST.

15A
PROPERTY N/F OF
CRYSTAL CITY PARTNERS, LLC
DOC. #2020R-050405
(SEE SHEET 9)

19
PROPERTY N/F OF
BETTY THURMAN PROPERTIES, LLC
2017R-019399
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.03 AC. (1433 SF) TEMP. ESM'T.
1.44 AC. REMAINING

20
PROPERTY N/F OF
BRACE PROPERTIES, LLC
DOC. #2021R-003650
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (274 SF) TEMP. ESM'T.
0.21 AC. REMAINING

21
PROPERTY N/F OF
CYNTHIA D. ROUSSIN &
RICHARD R. ROUSSIN
DOC. #2013R-047296
VOID

STA. 964+15.65 EX. ℄ RTE. 61/67 =
STA. 10+00.00 EX. ℄ THIRTEENTH ST.

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
7 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	30

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

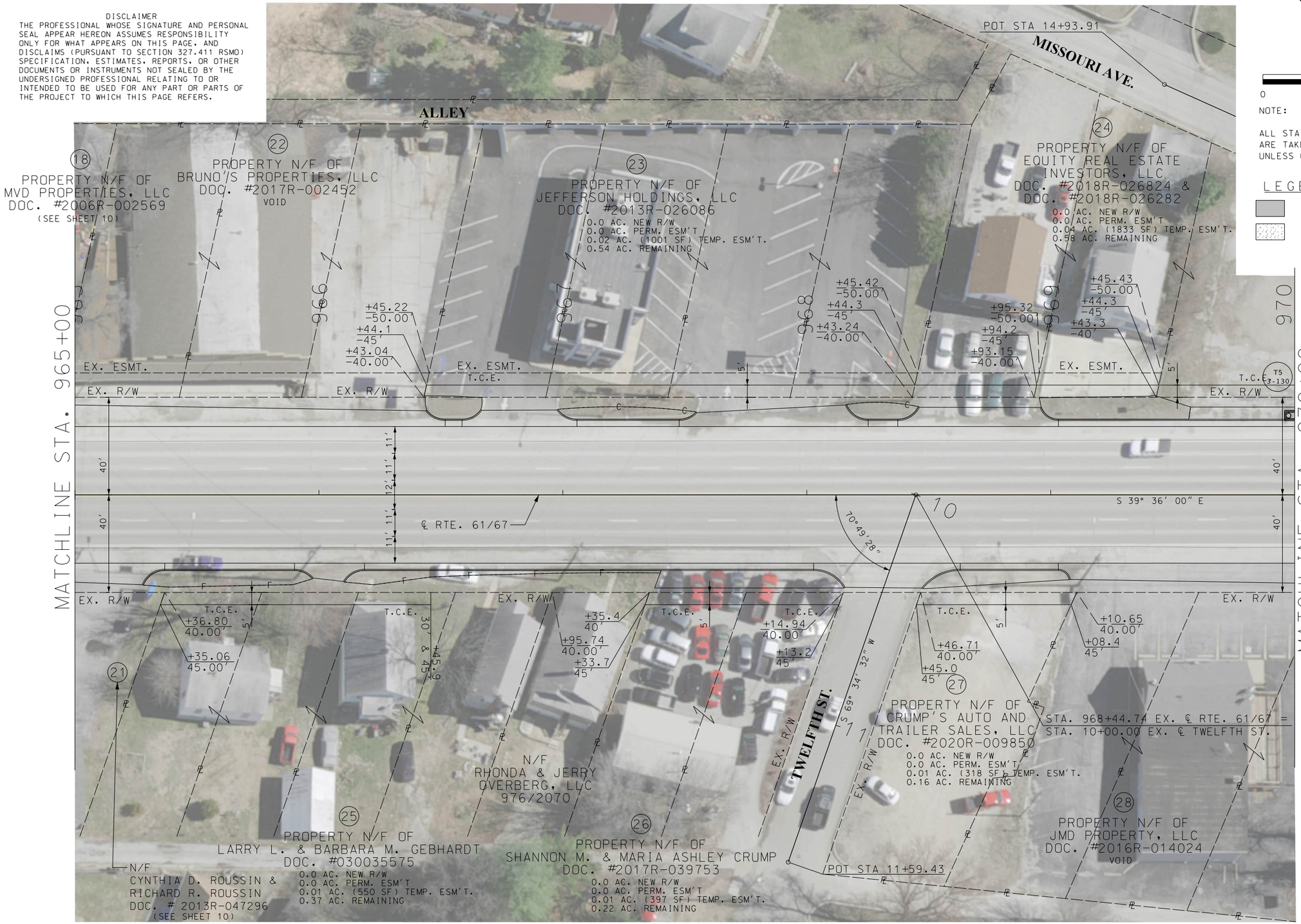
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



SCALE
0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.

LEGEND

MILL & OVERLAY

WIDENING

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
8 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	31

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

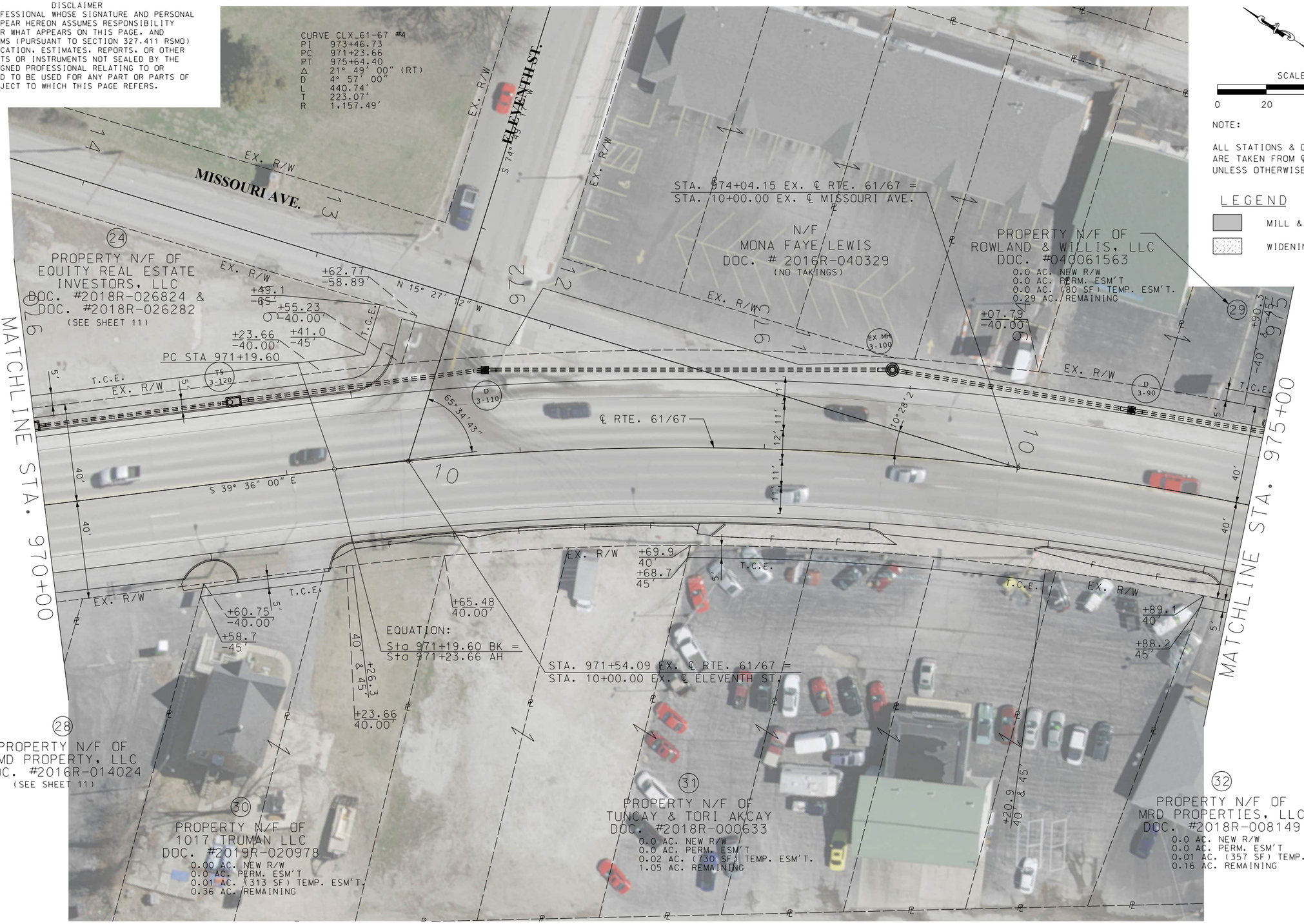
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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CURVE CLX_61-67 #4
PI 973+46.73
PC 971+23.66
PT 975+64.40
Δ 21° 49' 00" (RT)
D 4° 57' 00"
L 440.74'
T 223.07'
R 1,157.49'



24
PROPERTY N/F OF
EQUITY REAL ESTATE
INVESTORS, LLC
DOC. #2018R-026824 &
DOC. #2018R-026282
(SEE SHEET 11)

N/F
MONA FAYE LEWIS
DOC. # 2016R-040329
(NO TAKINGS)

29
PROPERTY N/F OF
ROWLAND & WILLIS, LLC
DOC. #040061563
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.0 AC. (80 SF) TEMP. ESM'T.
0.29 AC. REMAINING

28
PROPERTY N/F OF
JMD PROPERTY, LLC
DOC. #2016R-014024
(SEE SHEET 11)

30
PROPERTY N/F OF
1017 TRUMAN LLC
DOC. #2019R-020978
0.00 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (313 SF) TEMP. ESM'T.
0.36 AC. REMAINING

31
PROPERTY N/F OF
TUNCAY & TORI AKCAY
DOC. #2018R-000633
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.02 AC. (730 SF) TEMP. ESM'T.
1.05 AC. REMAINING

32
PROPERTY N/F OF
MRD PROPERTIES, LLC
DOC. #2018R-008149
0.0 AC. NEW R/W
0.0 AC. PERM. ESM'T
0.01 AC. (357 SF) TEMP. ESM'T.
0.16 AC. REMAINING

SCALE
0 20 40 60

NOTE:
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LEGEND
MILL & OVERLAY
WIDENING

RIGHT OF WAY SHEET
FOR INFORMATION ONLY
9 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	32

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

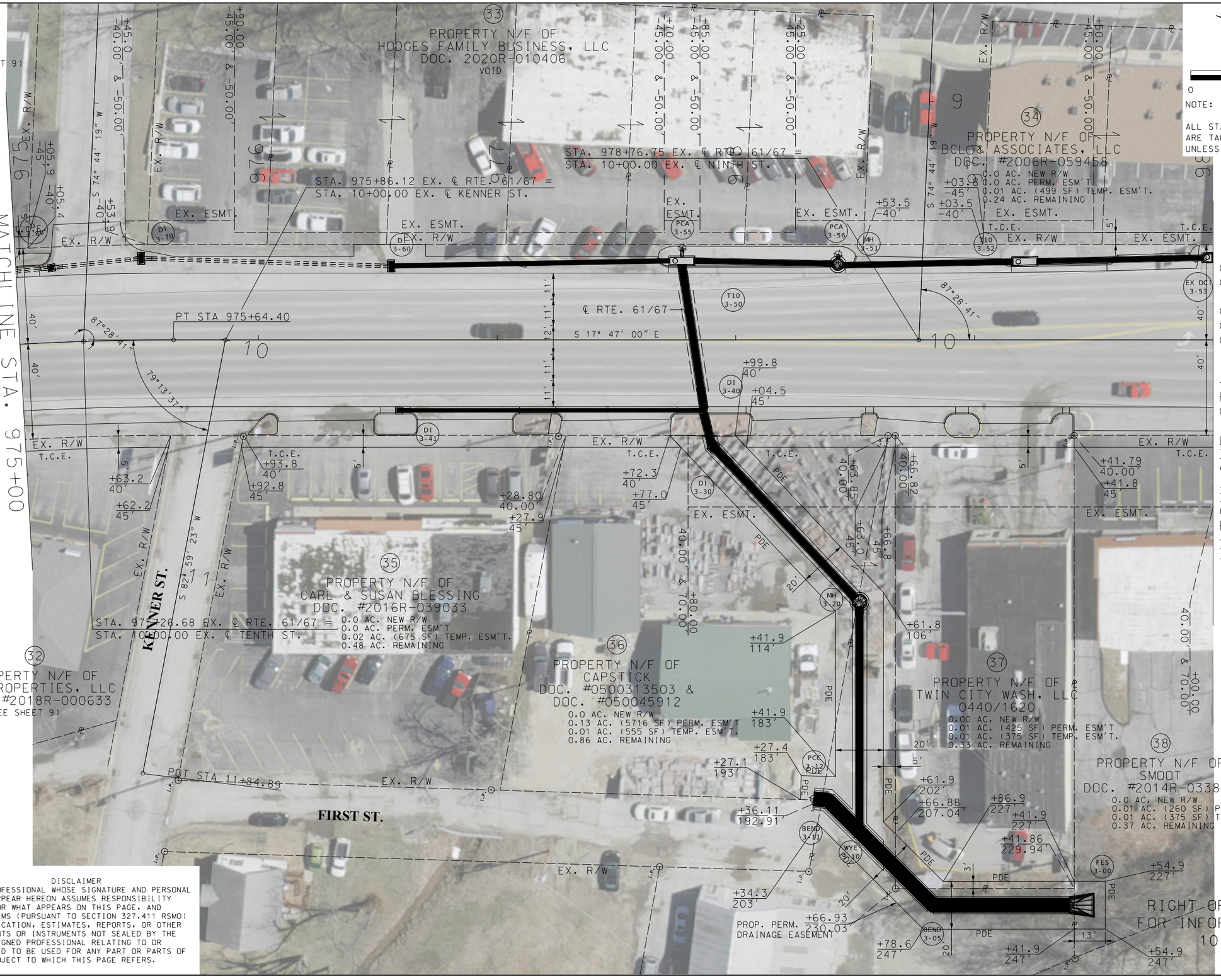
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	33

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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SCALE

0 20 40 60

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LEGEND

MILL & OVERLAY

WIDENING

DISCLAIMER

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RIGHT OF WAY SHEET
FOR INFORMATION ONLY
11 OF 11

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	34

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

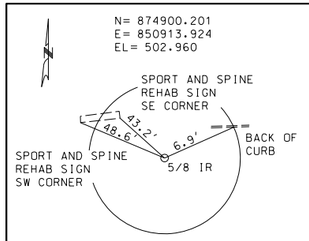
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

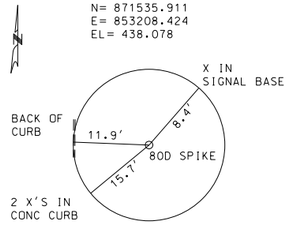
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



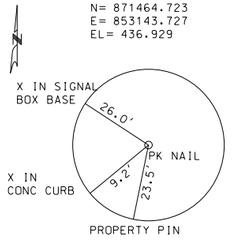
1401 N. TRUMAN BLVD.

W.P. #1



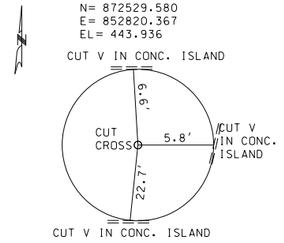
SE QUAD OF 61/67 & 8TH ST

W.P. #1



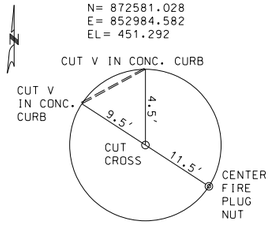
SW QUAD OF 61/67 & 6TH ST

W.P. #2



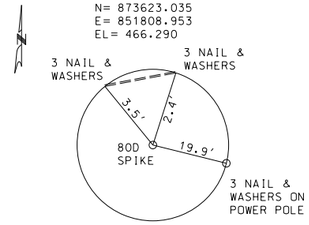
CONC. ISLAND AT RTE 61/67 & 11TH ST

W.P. #5



SW SIDE OF 11TH ST & ALLEY

W.P. #6



BETWEEN 1237 AND 1235 N. TRUMAN BLVD.

W.P. #8

BENCHMARKS

WP#5
NAVD88 EL 443.936 CUT "CROSS" IN CONCRETE ISLAND AT THE INTERSECTION OF RTE 61/67 AND 11TH STREET IN CRYSTAL CITY, MISSOURI

WP#6
NAVD88 EL 451.292 CUT "CROSS" IN SIDEWALK ON TEH SOUTH SIDE OF 11TH STREET IN CRYSTAL CITY, MISSOURI. JUST WEST OF ALLEY BETWEEN RTE 61/67 AND LINDSAY AVE.

WP#8
NAVD88 EL 466.290 "80D SPIKE" ON THE WEST SIDE OF RTE. 61/67 IN CRYSTAL CITY, MISSOURI BETWEEN ADRESSES 1237 N. TRUMAN BLVD. (JONES ANIMAL HEALTH CLINIC) & 1235 N. TRUMAN BLVD.(JOACHIM-PLATTIN AMBULANCE DISTRICT)

Reciprocal Average Grid Factor : 1.0000878

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REFERENCE POINT SHEET
SHEET 1 OF 1

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/22/2025 3:29:24 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/22/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	35

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.0000878

SHEET NO.	STATION[1]	LOCATION	OFFSET[1]	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
EX. US 61/67 ℄							
5	936+86.14	℄	0	875366.22	850840.37	BEGIN PROJECT	
5	937+50.64	LT.	0	875303.98	850856.21	P.I.	
6	940+51.20	℄	0	875010.25	850921.04	P.T.	
6	941+39.10	℄	0	874923.95	850937.73	P.C.	
6	942+59.71	RT.	0	874808.97	850969.91	P.I.	
6	943+78.15	℄	0	874700.78	851020.40	P.T.	
6	944+40.72	℄	0	874646.44	851051.41	P.C.	
7	945+60.18	RT.	0	874545.61	851114.86	P.I.	
7	946+79.05	℄	0	874450.63	851186.76	P.T.	
7	946+85.52	℄	0	874445.00	851191.42	P.T. (STA. 946+86.36 BK)	
12	971+23.66	℄	0	975595.46	880324.70	P.C. (STA. 971+19.60 BK)	
12	973+46.73	LT.	0	872387.41	852866.47	P.I.	
13	975+64.40	℄	0	872185.22	852953.28	P.T.	
14	980+14.40	℄	0	871756.72	853090.72	END PROJECT	
CONSTRUCTION ℄							
6	941+17.52	℄	0	874946.03	850938.25	BEGIN - P.C.	
6	942+59.21	LT.	0	874806.91	850965.15	P.I.	
6	943+98.95	℄	0	874681.15	851030.42	P.T.	
6	944+21.93	℄	0	874660.75	851041.01	P.C.	
7	945+72.16	LT.	0	874527.41	851110.22	P.I.	
7	947+21.00	℄	0	874413.93	851208.67	P.T.	
7	947+42.34	℄	0	874397.40	851223.01	END	

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

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COORDINATE POINT SHEET
SHEET 1 OF 1

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/22/2025 2:29:53 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/22/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	36

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

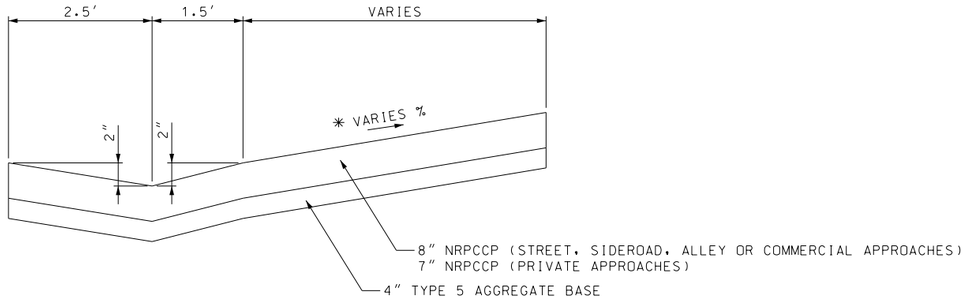
BRIDGE NO.

DATE	DESCRIPTION

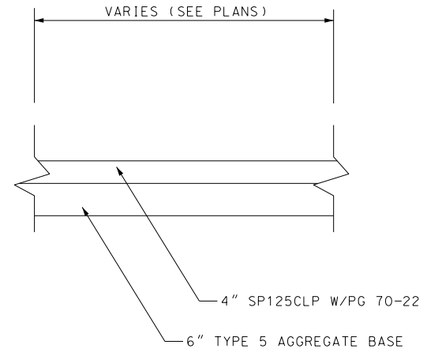
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

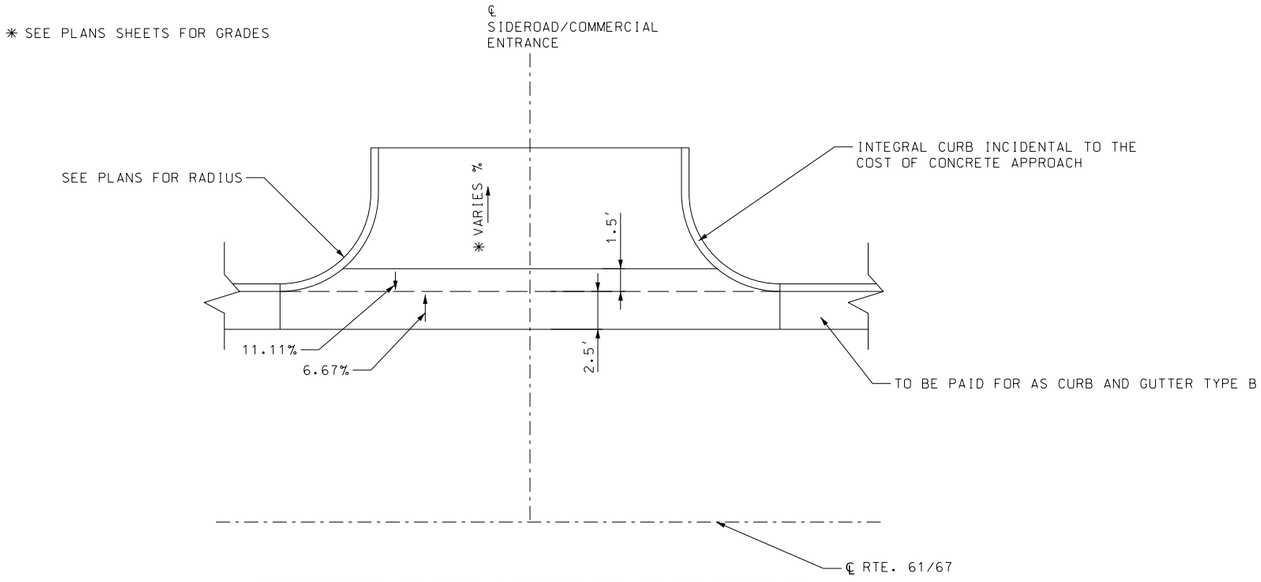


MODIFIED PAVED APPROACH SECTION DETAIL



ASPHALT PARKING LOT PAVEMENT DETAIL

PARKING LOT PATCH OVER DRAINAGE NETWORK
STA. 977+89.98 TO STA. 978+61.88



MODIFIED PAVED APPROACH PLAN DETAIL

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N.T.S.

SPECIAL SHEET
1 OF 2

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	37

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

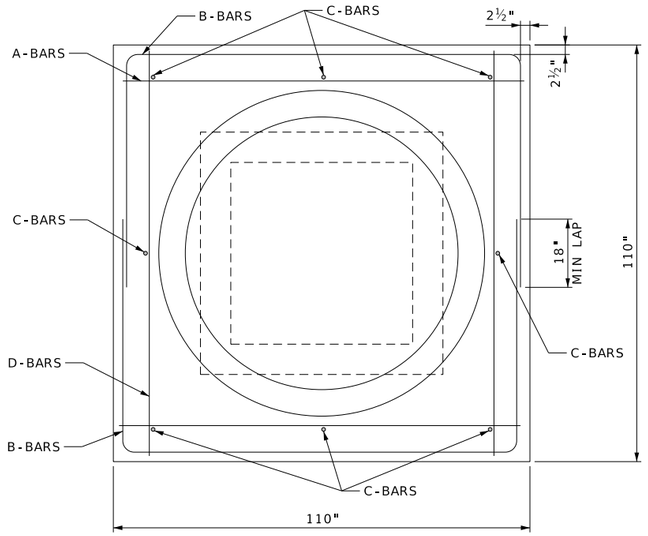
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JEFFERSON CITY, MO 65102
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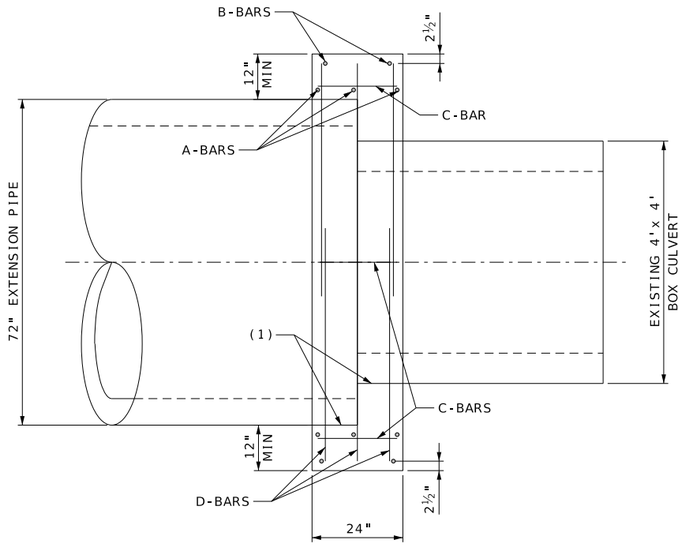
211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TABLE OF DIMENSIONS					
LENGTH OF BARS				QUANTITIES	
A(#5) 6 REQUIRED (FT-IN)	B(#5) 4 REQUIRED (FT-IN)	C(#4) 8 REQUIRED (FT-IN)	D(#5) 6 REQUIRED (FT-IN)	CONCRETE (CU YD)	STEEL (LBS)
8-9	21-8	1-8	8-9	3.68	462

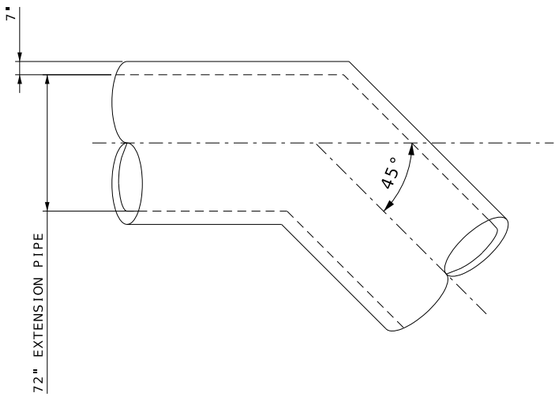
(1) ONE LAYER COMMERCIALLY AVAILABLE
55-POUND ROLL ROOFING



SECTION B-B

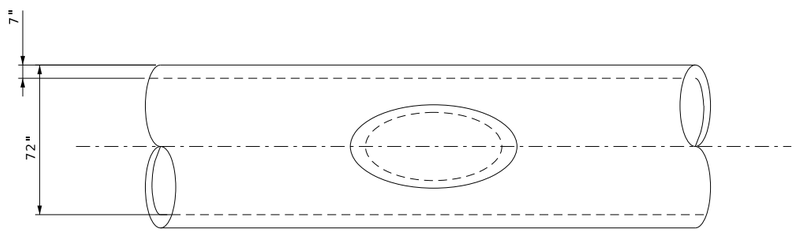


ELEVATION
(FOR BOX CULVERT TO PIPE)

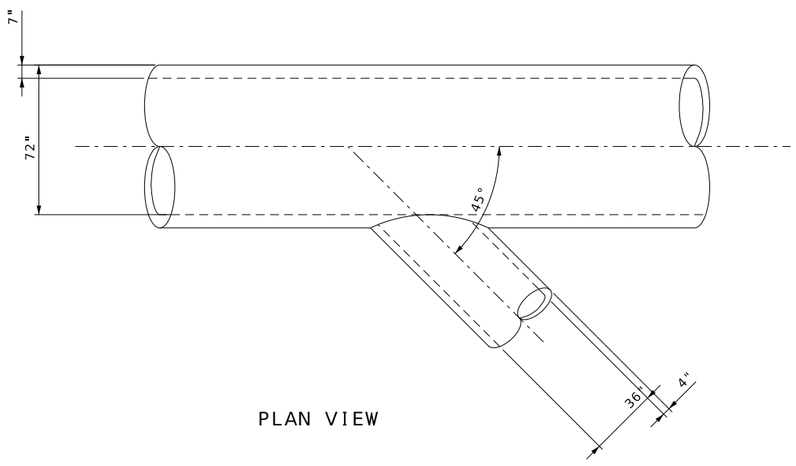


PRECAST 45 DEG. BEND, 72" PIPE

MODIFIED TYPE C PIPE COLLAR



SECTION VIEW



PLAN VIEW

PRECAST 36"/72" WYE JOINT

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STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	38

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

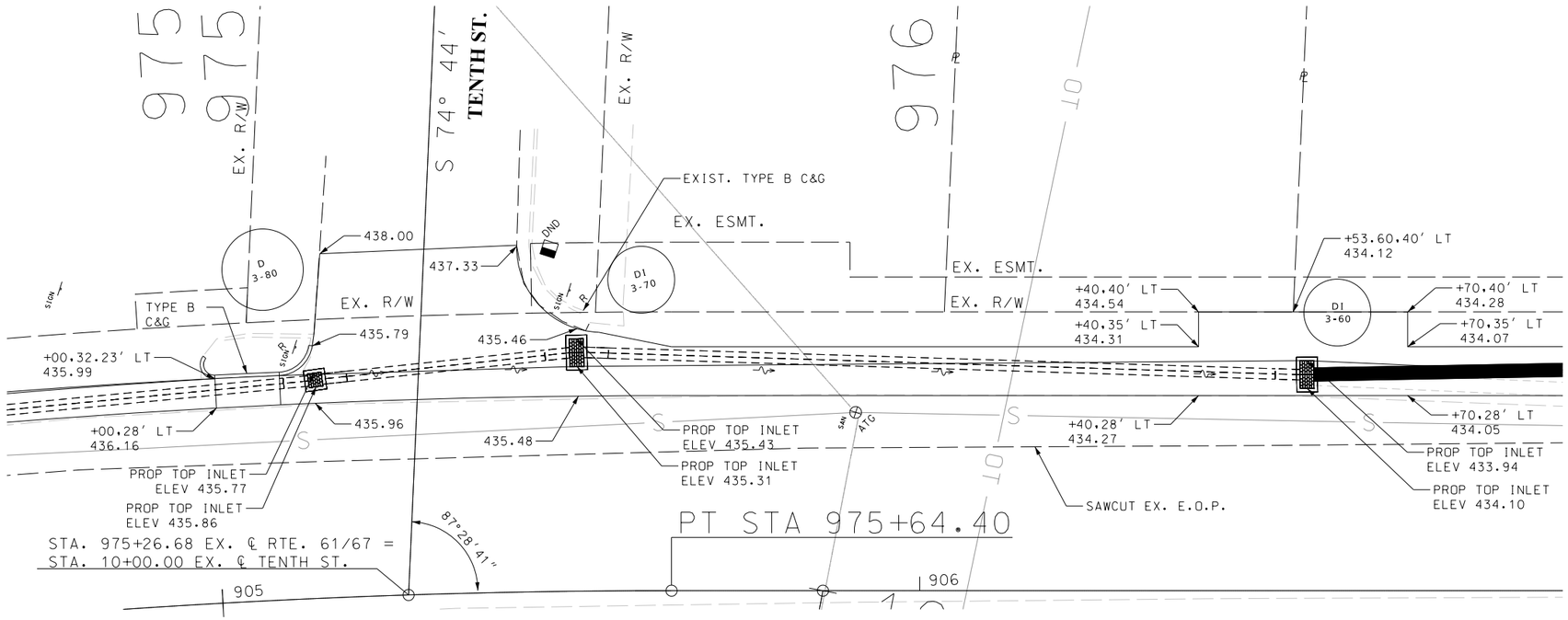
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



TENTH STREET WARPING DETAIL

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SPECIAL SHEET
3 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/16/2025 5:20:51 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	39

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

LEGEND

- SIGN
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- ARROW PANEL
- DIRECTIONAL TRAFFIC ARROW
- ADVANCED WARNING RAIL SYSTEM
- CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL NARRATIVE

STAGE 1:

- ALL EXISTING SIGNS THAT CONFLICT WITH TCP SHALL BE COVERED.
- CLOSE OUTSIDE LANES.
- REMOVE EXISTING PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT MARKING.
- REMOVE EXISTING SHOULDERS AND CURBS.
- CONSTRUCT DRAINAGE IMPROVEMENTS.
- WIDEN PAVEMENT & CONSTRUCT CURB & GUTTER.

PHASE 1:

- CONSTRUCT FIRST HALF OF SIDE ROADS & ENTRANCES.

PHASE 2:

- CONSTRUCT REMAINING HALF OF SIDE ROADS & ENTRANCES.

MOVING OPERATION:

- COLDMILL AND OVERLAY EXISTING PAVEMENT.

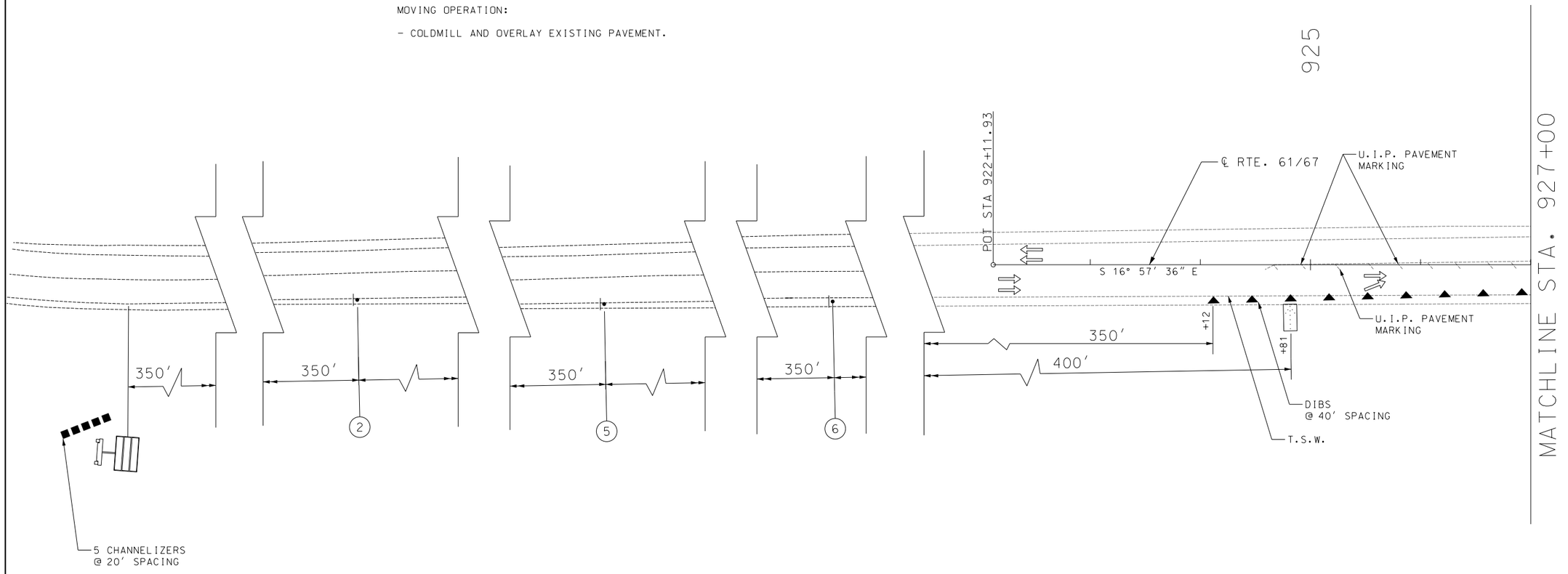
PAVEMENT MARKING LEGEND

T.S.W.	4" TEMPORARY SOLID WHITE (PAINT)
T.S.Y.	4" TEMPORARY SOLID YELLOW (PAINT)
T.D.Y.	4" TEMPORARY DASHED YELLOW (PAINT)
T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
	TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150

TRAFFIC CONTROL NOTES

1. NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS OR DEVICES.
2. SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
3. CMS LOCATIONS TO BE DETERMINED BY ENGINEER.





W020-1
(2)



W020-5
(5)



W020-6a
(6)

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TRAFFIC CONTROL
PLAN SHEET
SHEET 1 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/16/2025 5:21:28 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	40

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

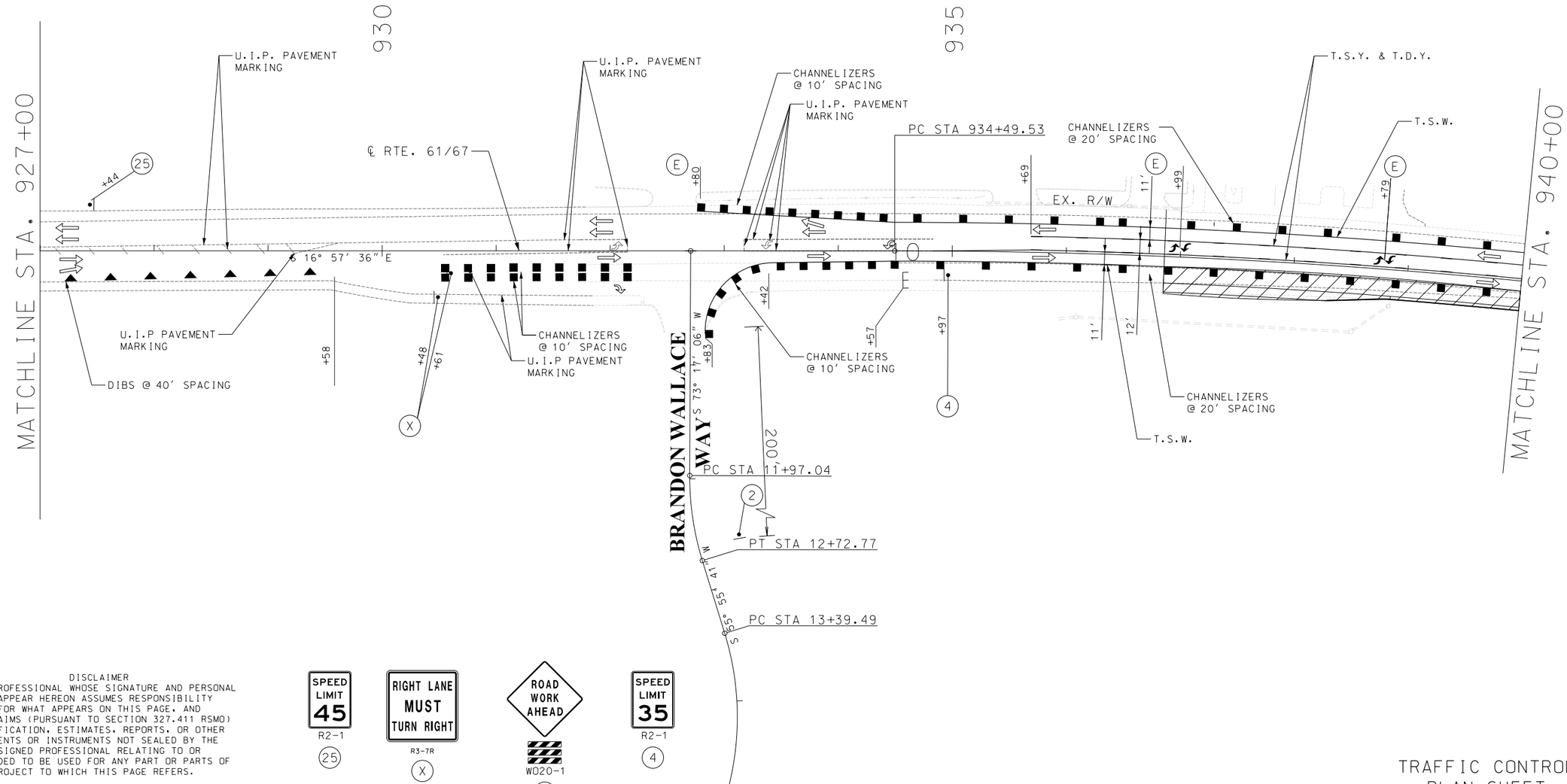
LEGEND

- WORK AREA
- SIGN
- TYPE 3 BARRICADES
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- CHANNELIZER (TRIMLINE)
- (E) ENTRANCE
- DIRECTIONAL TRAFFIC ARROW
- ADVANCED WARNING RAIL SYSTEM

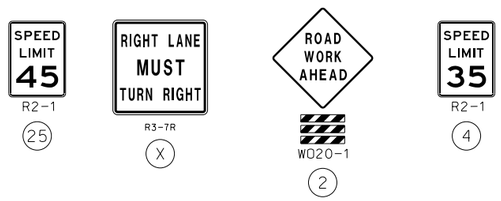
PAVEMENT MARKING LEGEND

T.S.W.	4"	TEMPORARY SOLID WHITE (PAINT)
T.S.Y.	4"	TEMPORARY SOLID YELLOW (PAINT)
T.D.Y.	4"	TEMPORARY DASHED YELLOW (PAINT)
T.S.W.S.B.	12"	TEMPORARY STOP BAR (PAINT)
		TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150



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TRAFFIC CONTROL
PLAN SHEET
SHEET 2 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/16/2025 5:22:11 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	41

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

PAVEMENT MARKING LEGEND

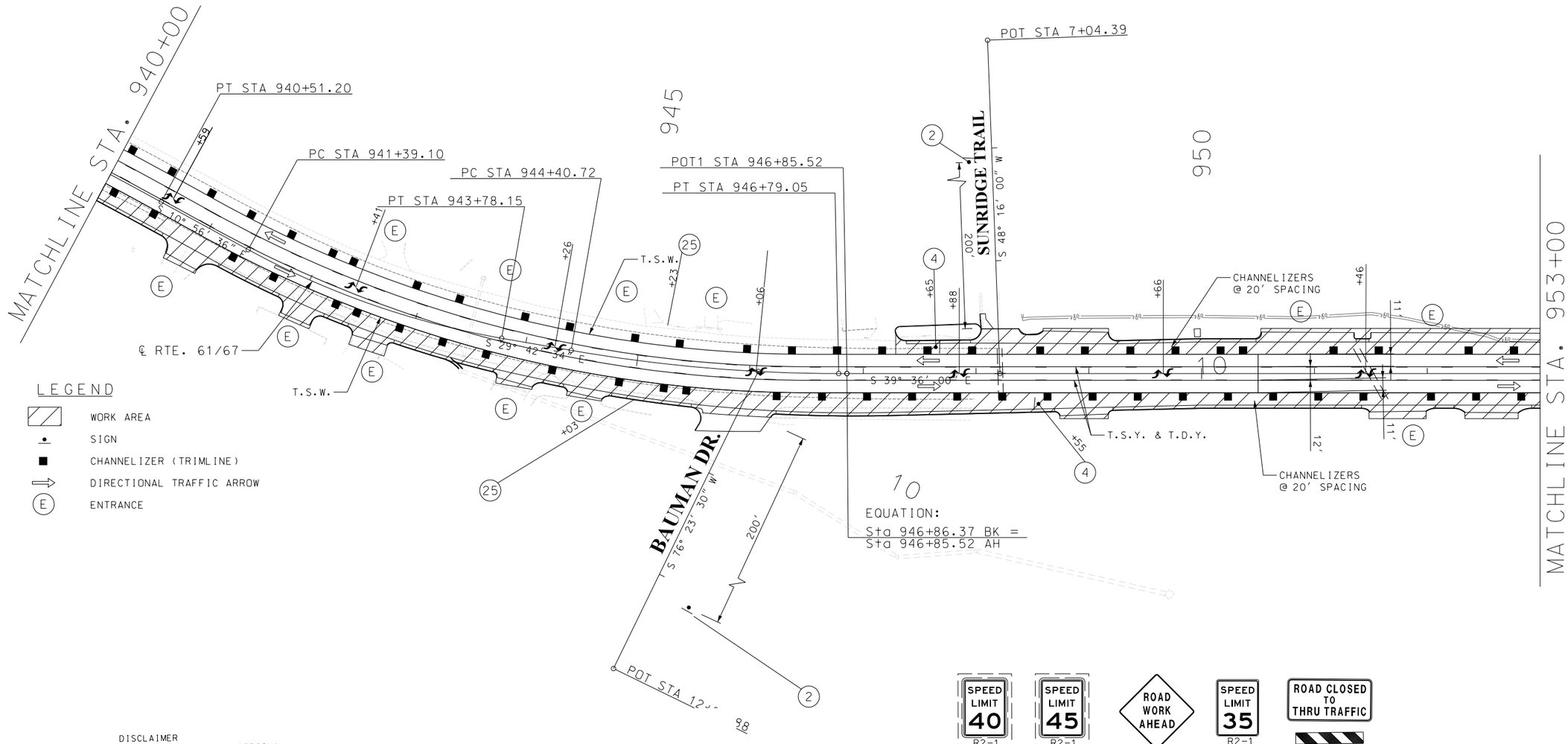
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▬▬	T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
➶➶		TEMPORARY TWLTL ARROWS (PAINT)

PLACE SIGN ON BARRICADE AT INTERSECTION OF SUNRIDGE AND MISSOURI DURING CONSTRUCTION OF DRAINAGE PIPE SS 1-40

(20)

SCALE

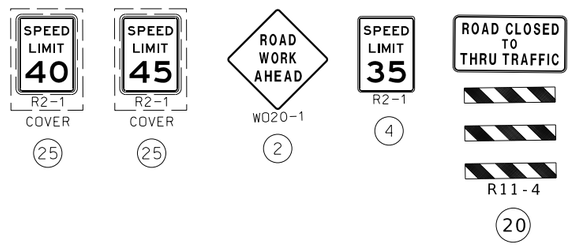
0 50 100 150



LEGEND

- WORK AREA
- SIGN
- CHANNELIZER (TRIMLINE)
- DIRECTIONAL TRAFFIC ARROW
- (E) ENTRANCE

EQUATION:
Sta 946+86.37 BK =
Sta 946+85.52 AH



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TRAFFIC CONTROL
PLAN SHEET
SHEET 3 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	42

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

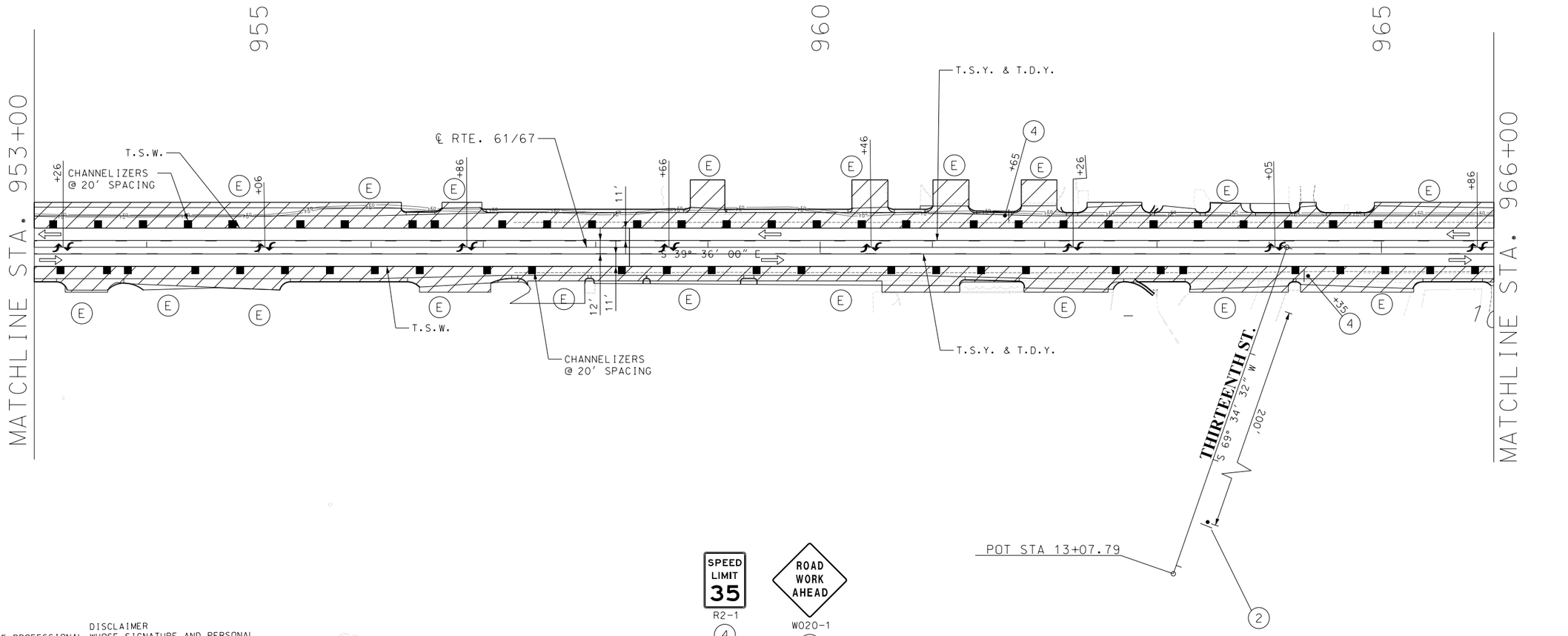
LEGEND

- WORK AREA
- SIGN
- CHANNELIZER (TRIMLINE)
- (E) ENTRANCE
- DIRECTIONAL TRAFFIC ARROW

PAVEMENT MARKING LEGEND

T.S.W.	4" TEMPORARY SOLID WHITE (PAINT)
T.S.Y.	4" TEMPORARY SOLID YELLOW (PAINT)
T.D.Y.	4" TEMPORARY DASHED YELLOW (PAINT)
T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
	TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150



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TRAFFIC CONTROL
PLAN SHEET
SHEET 4 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	43

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

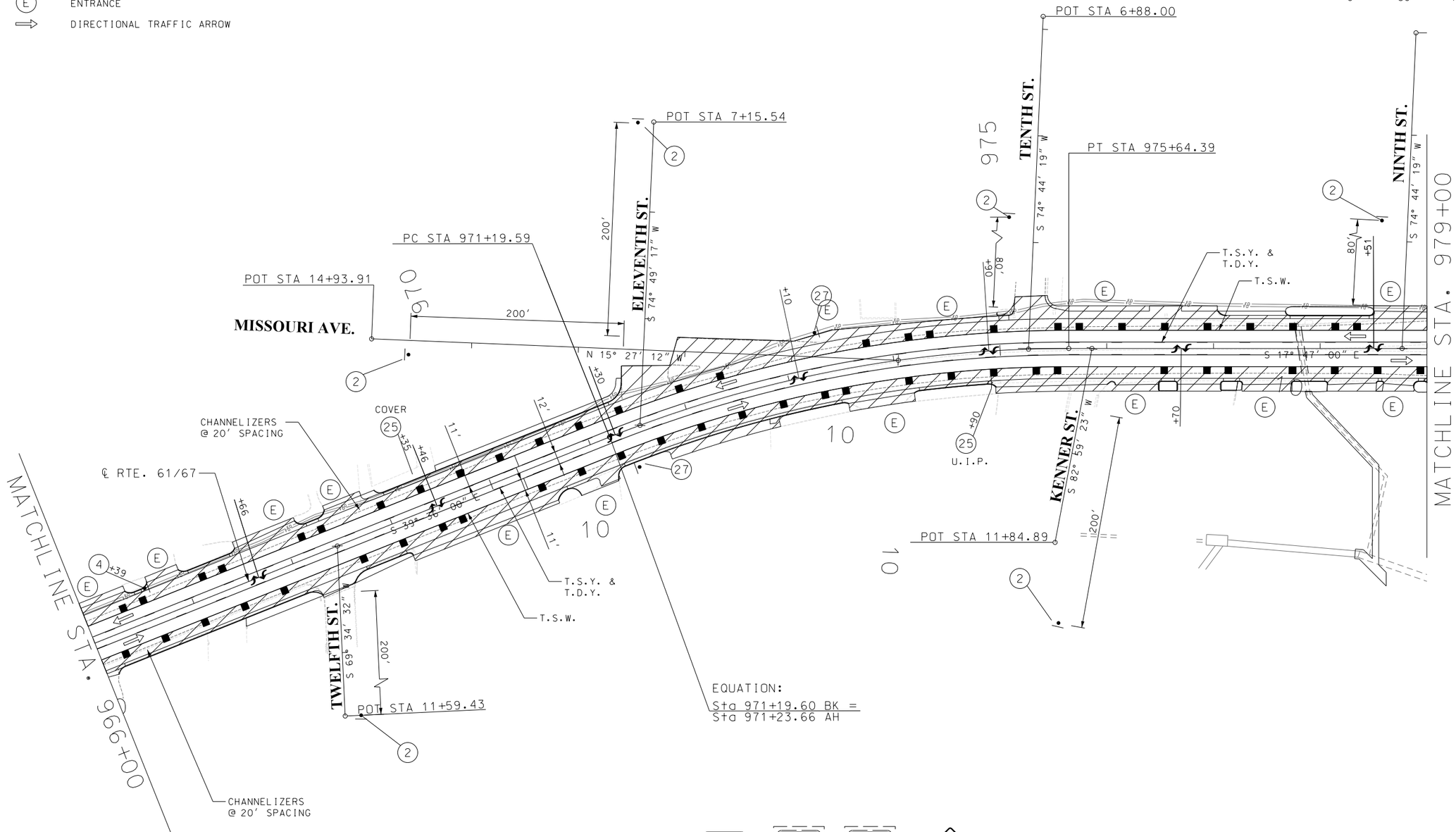
LEGEND

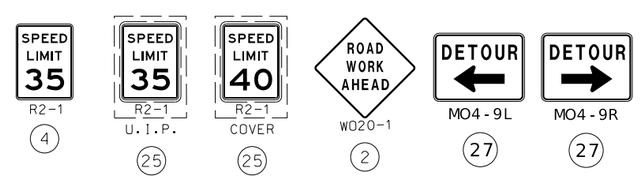
- WORK AREA
- SIGN
- CHANNELIZER (TRIMLINE)
- (E) ENTRANCE
- DIRECTIONAL TRAFFIC ARROW

PAVEMENT MARKING LEGEND

T.S.W.	4" TEMPORARY SOLID WHITE (PAINT)
T.S.Y.	4" TEMPORARY SOLID YELLOW (PAINT)
T.D.Y.	4" TEMPORARY DASHED YELLOW (PAINT)
T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
	TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150





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TRAFFIC CONTROL
PLAN SHEET
SHEET 5 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	44

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

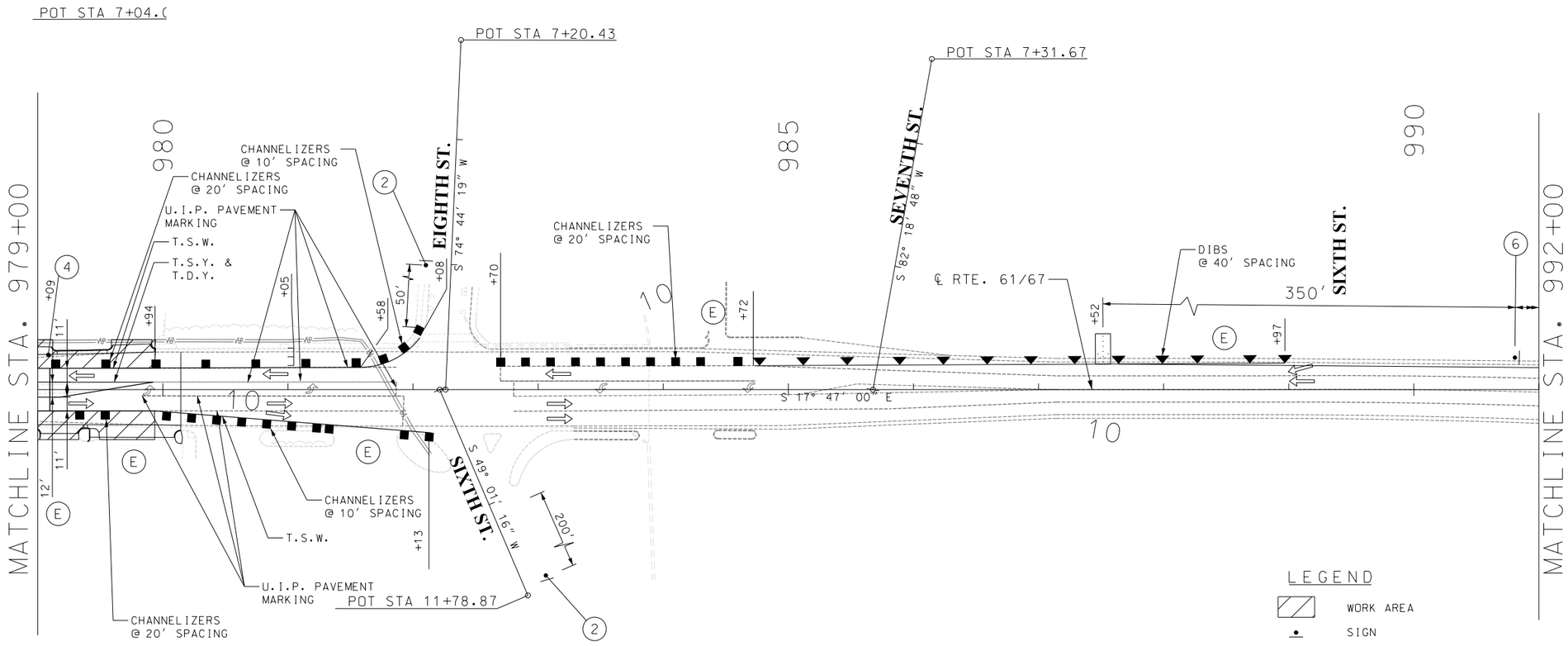
211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

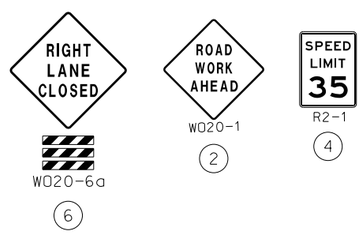
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PAVEMENT MARKING LEGEND

T.S.W.	4" TEMPORARY SOLID WHITE (PAINT)
T.S.Y.	4" TEMPORARY SOLID YELLOW (PAINT)
T.D.Y.	4" TEMPORARY DASHED YELLOW (PAINT)
T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
	TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150





LEGEND
- WORK AREA
- SIGN
- TYPE 3 BARRICADES
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- CHANNELIZER (TRIMLINE)
- (E) ENTRANCE
- ARROW PANEL
- DIRECTIONAL TRAFFIC ARROW
- ADVANCED WARNING RAIL SYSTEM

TRAFFIC CONTROL
PLAN SHEET
SHEET 6 OF 7

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	45

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

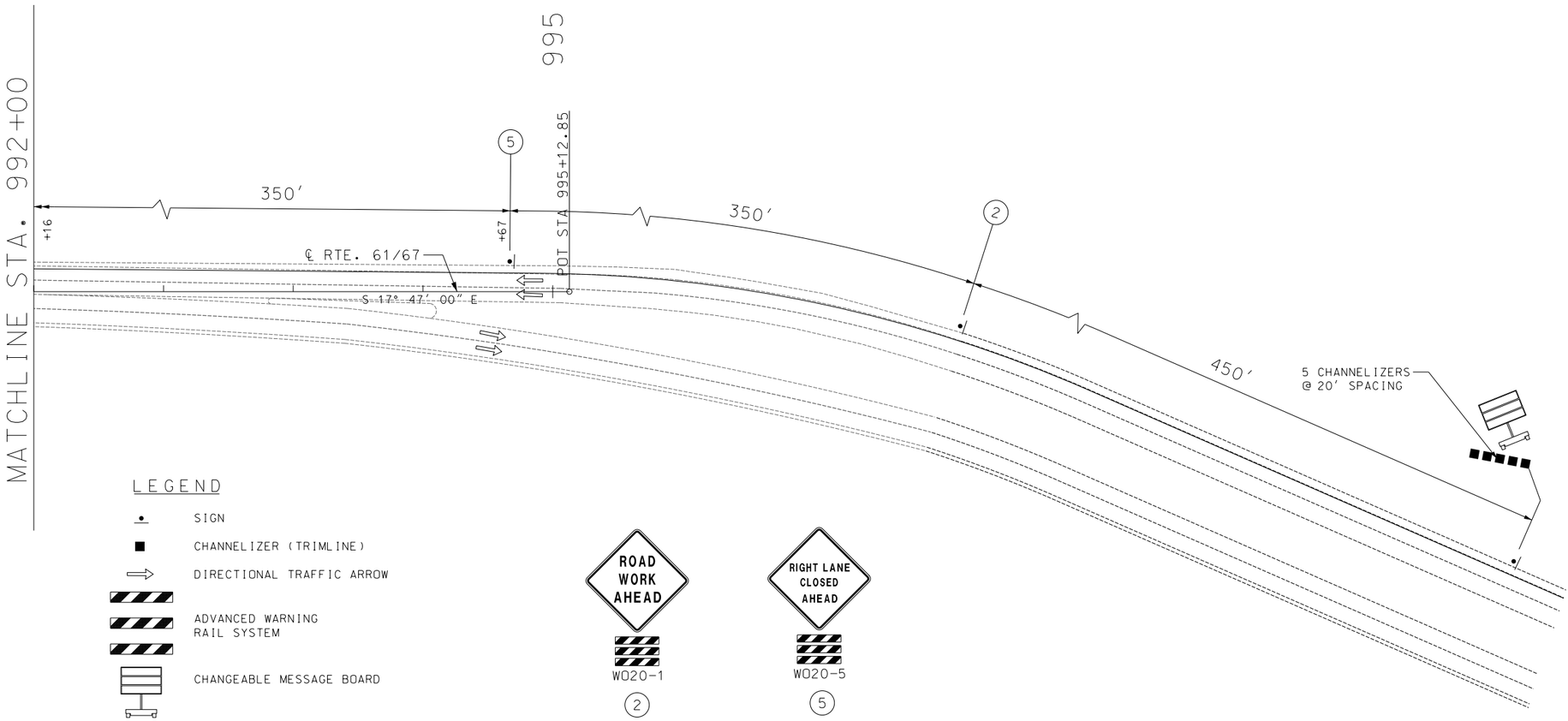
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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PAVEMENT MARKING LEGEND

———	T.S.W.	4" TEMPORARY SOLID WHITE (PAINT)
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- - - - -	T.D.Y.	4" TEMPORARY DASHED YELLOW (PAINT)
▬▬▬	T.S.W.S.B.	12" TEMPORARY STOP BAR (PAINT)
↷↷		TEMPORARY TWLTL ARROWS (PAINT)

SCALE
0 50 100 150



LEGEND
- SIGN
- CHANNELIZER (TRIMLINE)
- DIRECTIONAL TRAFFIC ARROW
- ADVANCED WARNING RAIL SYSTEM
- CHANGEABLE MESSAGE BOARD

W020-1
(2)

W020-5
(5)

TRAFFIC CONTROL
PLAN SHEET
SHEET 7 OF 7

WILLIAM G. KRUSSEL
NUMBER E-27561
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
04/16/2025 5:22:54 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

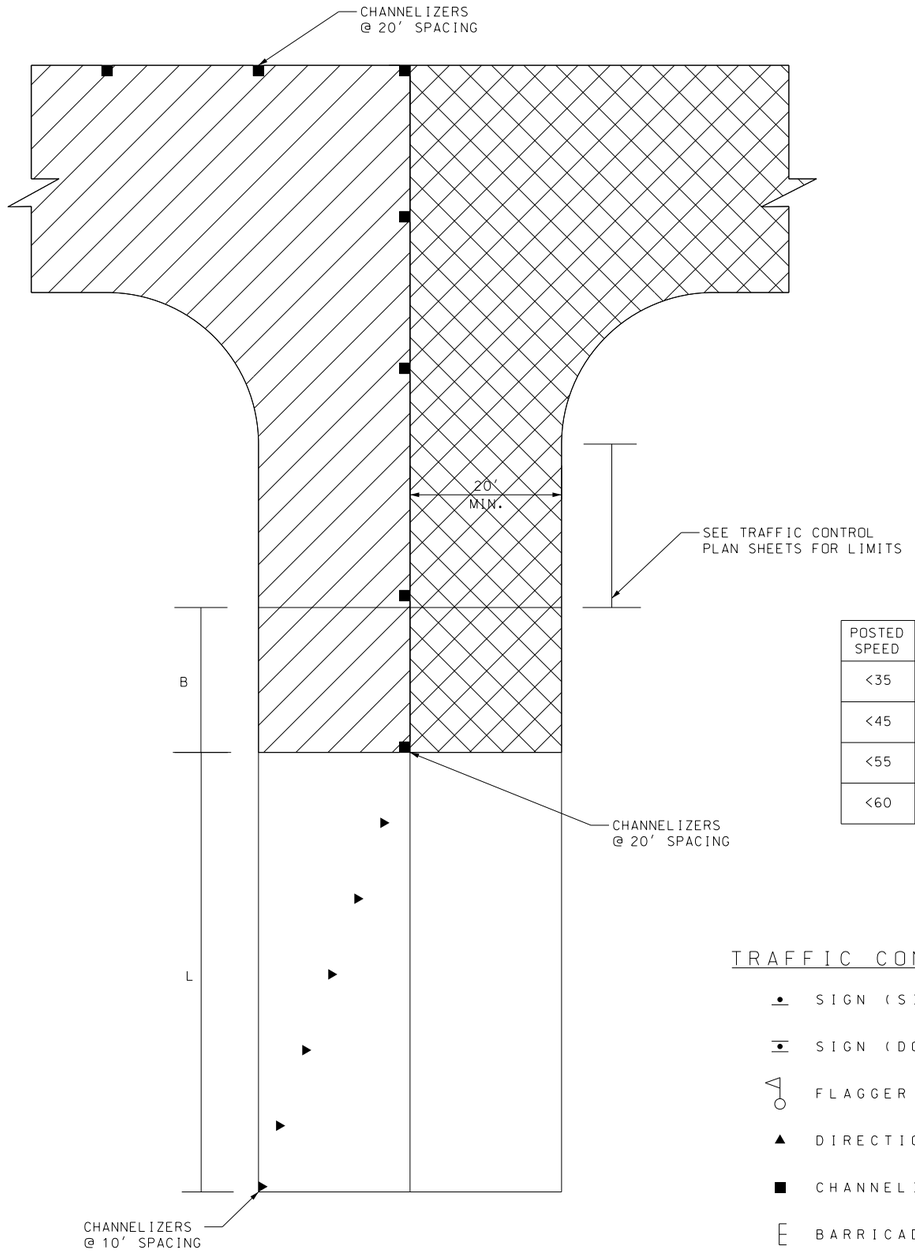
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

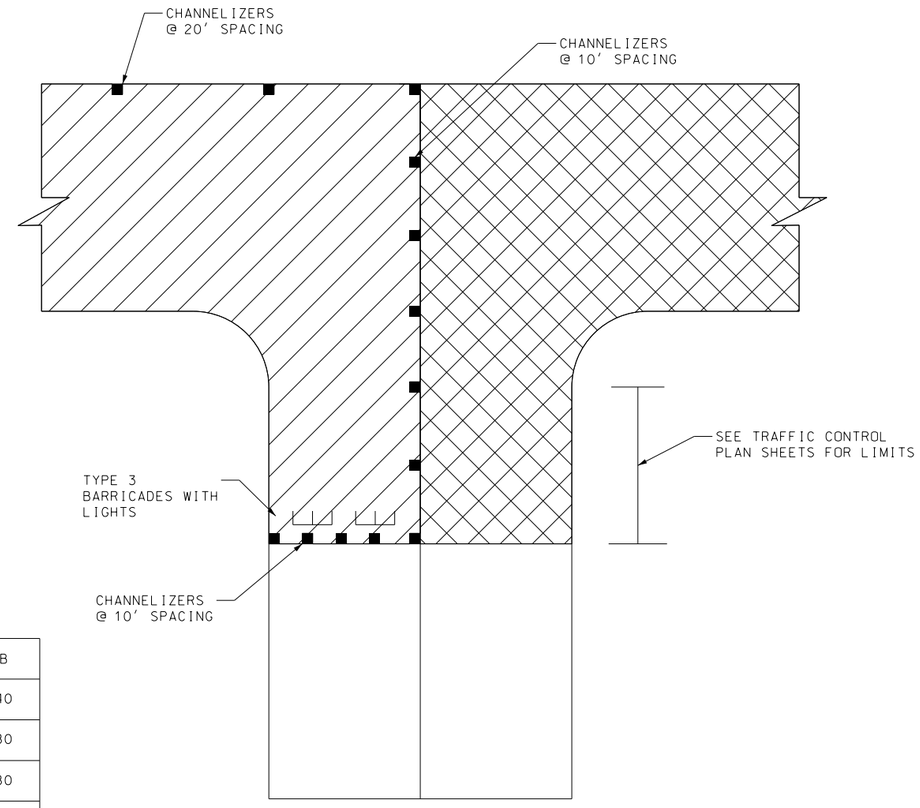
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING



SIDE ROAD TRAFFIC CONTROL DETAIL

N.T.S.

POSTED SPEED	L	B
<35	245	40
<45	540	80
<55	660	80
<60	840	120



ENTRANCE TRAFFIC CONTROL DETAIL

N.T.S.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- CHANNELIZER (TRIMLINE)
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- WORK ZONE PHASE 1
- WORK ZONE PHASE 2

NOTE:

MIRROR CHANNELIZER/BARRICADE PLACEMENT FOR PHASE 2.

TRAFFIC CONTROL
DETAIL SHEET
SHEET 1 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	47

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

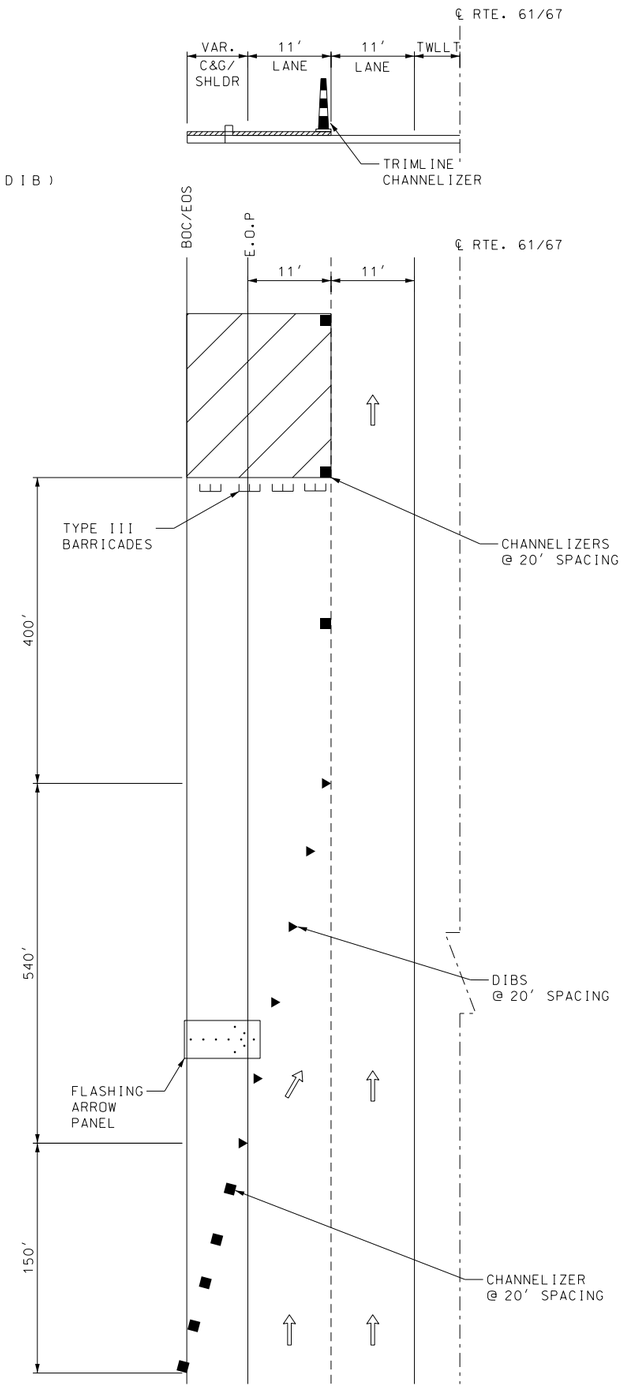
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

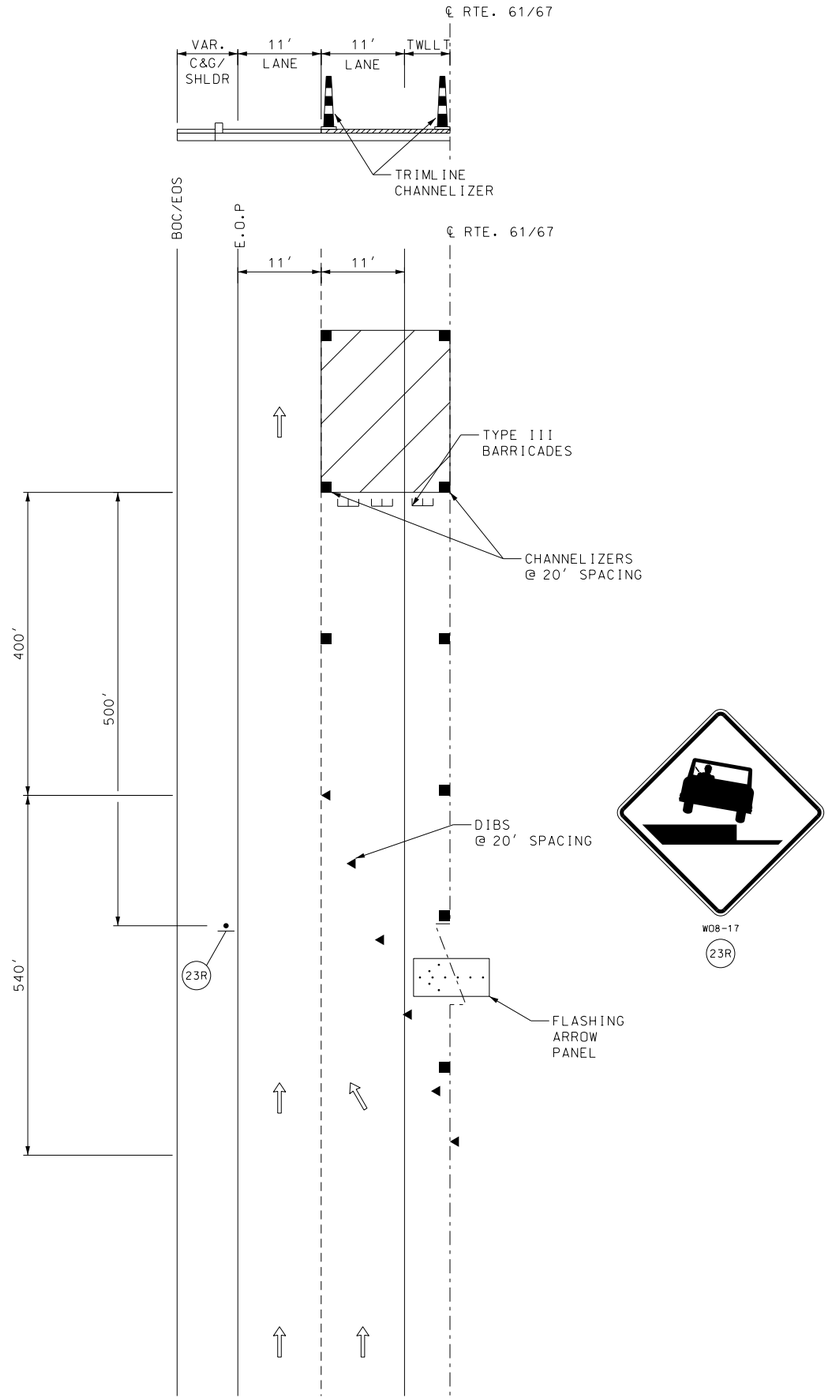
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE (DIB)
- CHANNELIZER (TRIMLINE)
- BARRICADE
- DIRECTIONAL TRAFFIC ARROW
- WORK ZONE



MOVING OPERATION FOR OVERLAY
OUTSIDE LANE DETAIL

N.T.S.



MOVING OPERATION FOR OVERLAY
INSIDE LANE DETAIL

N.T.S.

TRAFFIC CONTROL
DETAIL SHEET
SHEET 2 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	
4/9/2025	
ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	48
COUNTY	
JEFFERSON	
JOB NO.	
J6S3391	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

⇨ DIRECTIONAL TRAFFIC ARROW

NOTE:

LOCATION OF 'ROAD WORK AHEAD' DETAILED IN TRAFFIC CONTROL PLAN SHEETS.



WO20-1

(2)



WO20-5

(5)



WO20-6a

(6)

BEGIN PROJECT SIGN DETAIL

N.T.S.

TRAFFIC CONTROL
DETAIL SHEET
SHEET 3 OF 3

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/16/2025 5:23:40 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/16/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	49

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

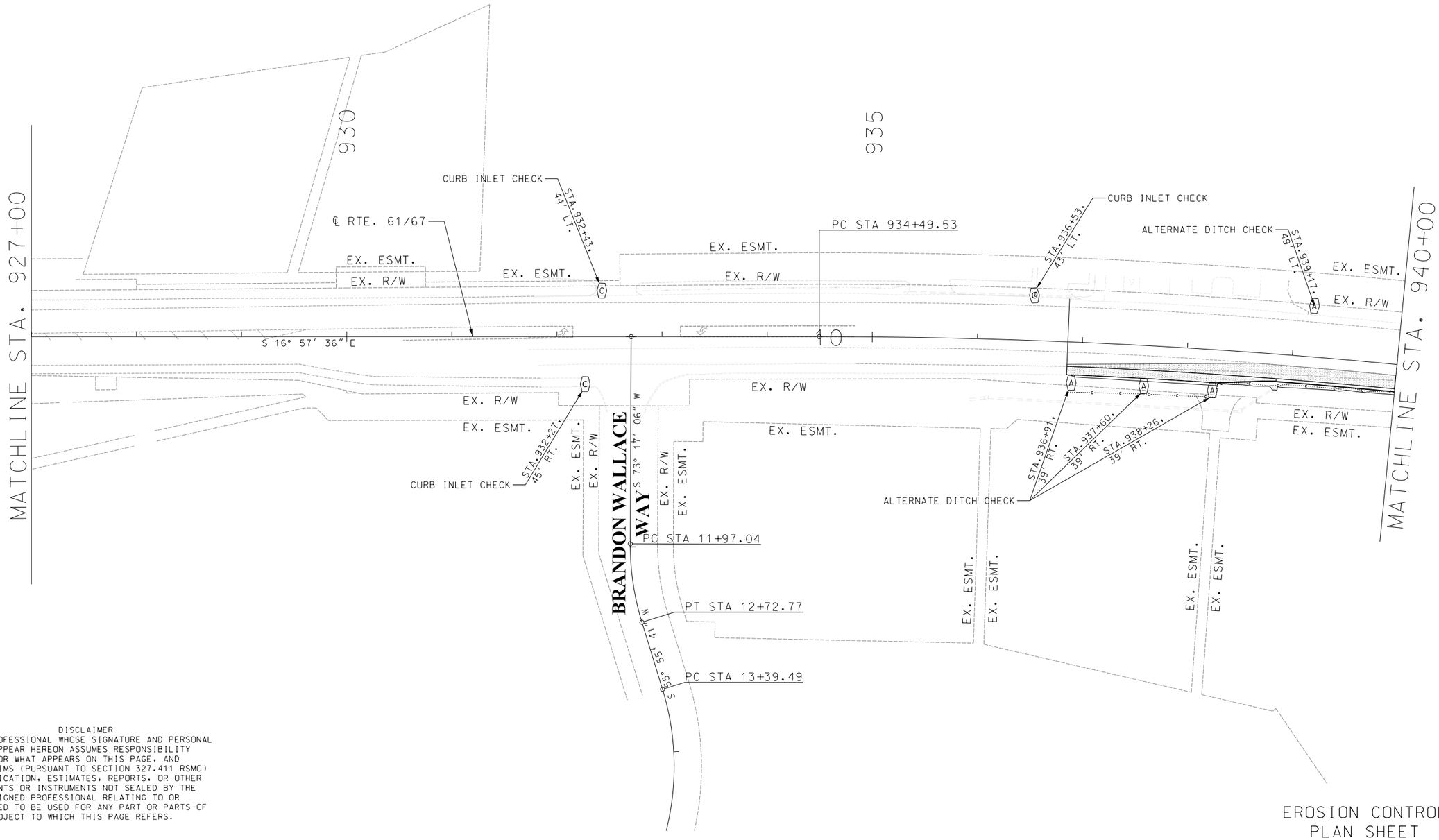
PRIMARY RECEIVING WATERS: PLATTIN CREEK

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE DITCH CHECK
- SILT FENCE

SCALE

0 50 100 150



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EROSION CONTROL
PLAN SHEET
SHEET 1 OF 5

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	50

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

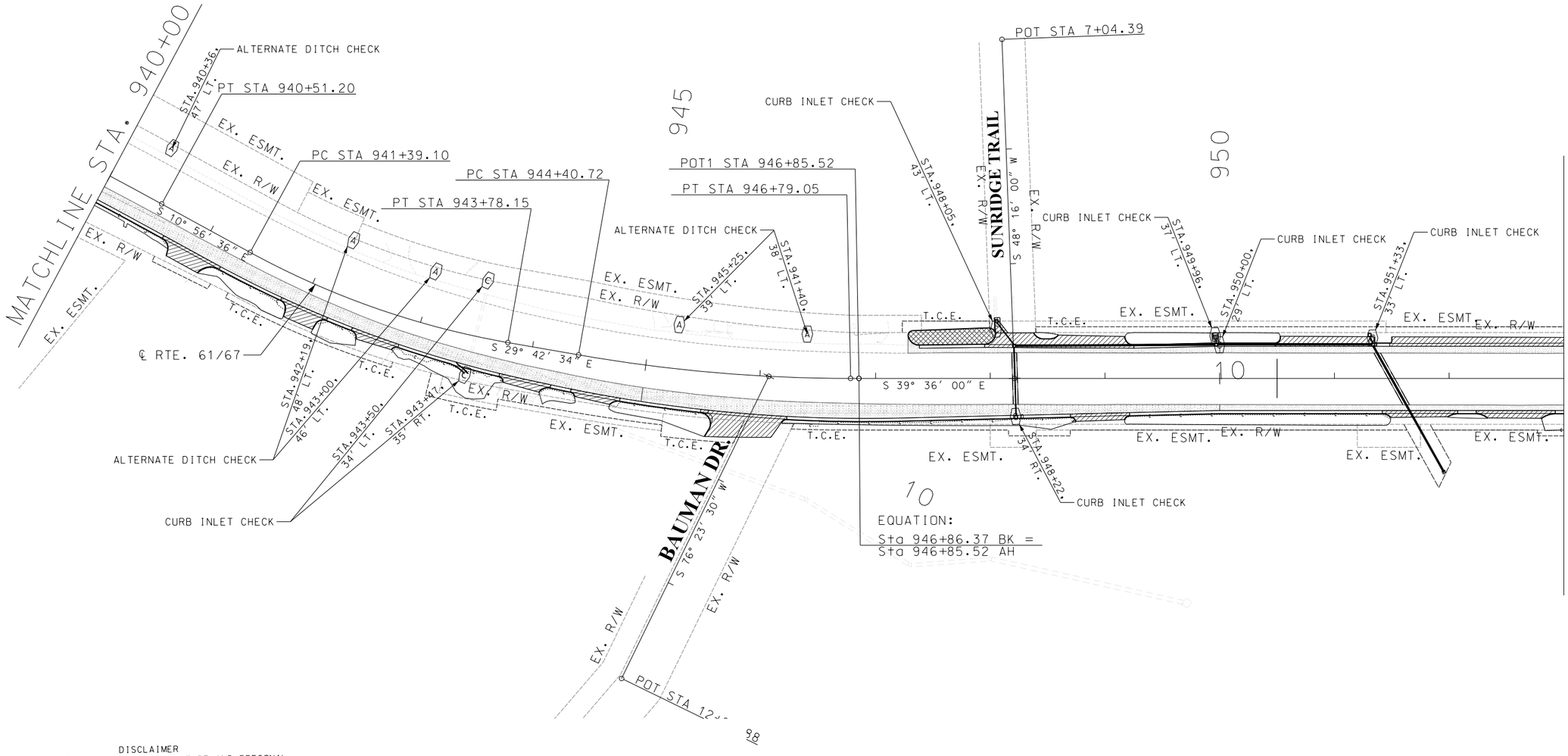
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
- (A) ALTERNATE DITCH CHECK
- SILT FENCE

SCALE
0 50 100 150



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EROSION CONTROL
PLAN SHEET
SHEET 2 OF 5

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	51

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

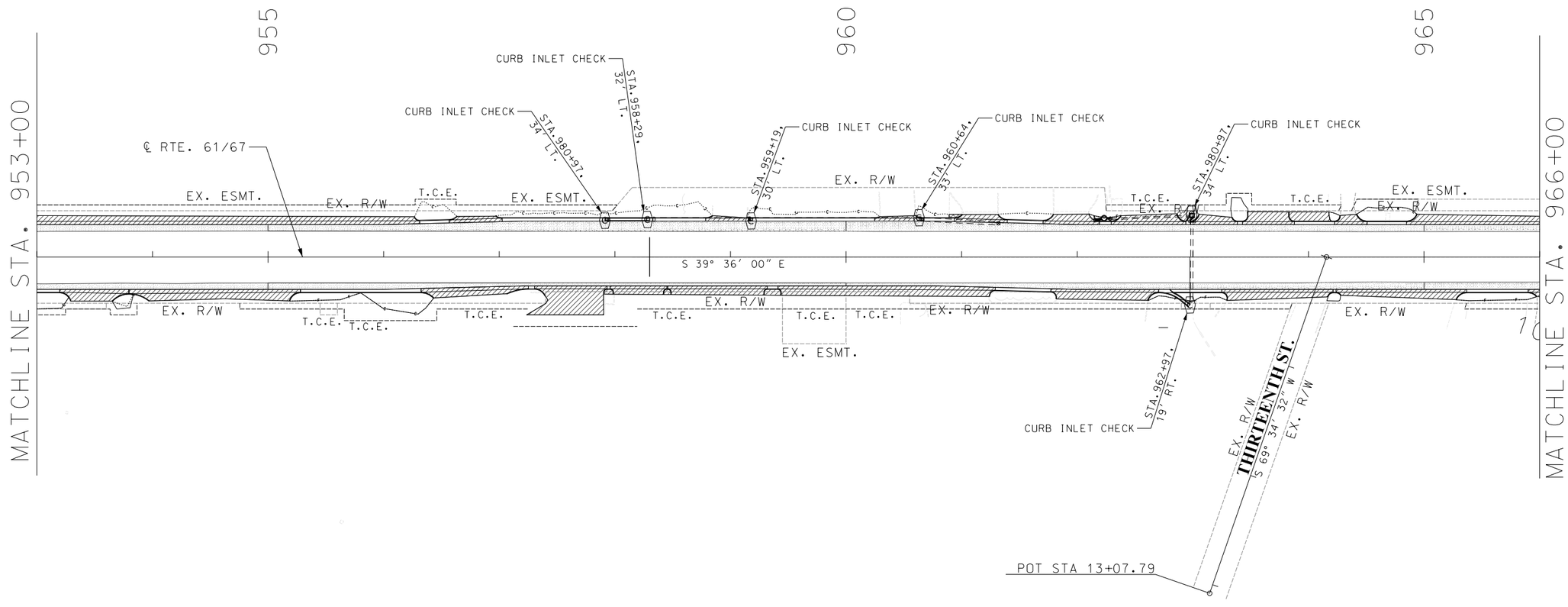
211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TEMPORARY EROSION CONTROL LEGEND

- (C) CURB INLET CHECK
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- SILT FENCE

SCALE

0 50 100 150



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EROSION CONTROL
PLAN SHEET
SHEET 3 OF 5

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	52

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TEMPORARY EROSION CONTROL LEGEND

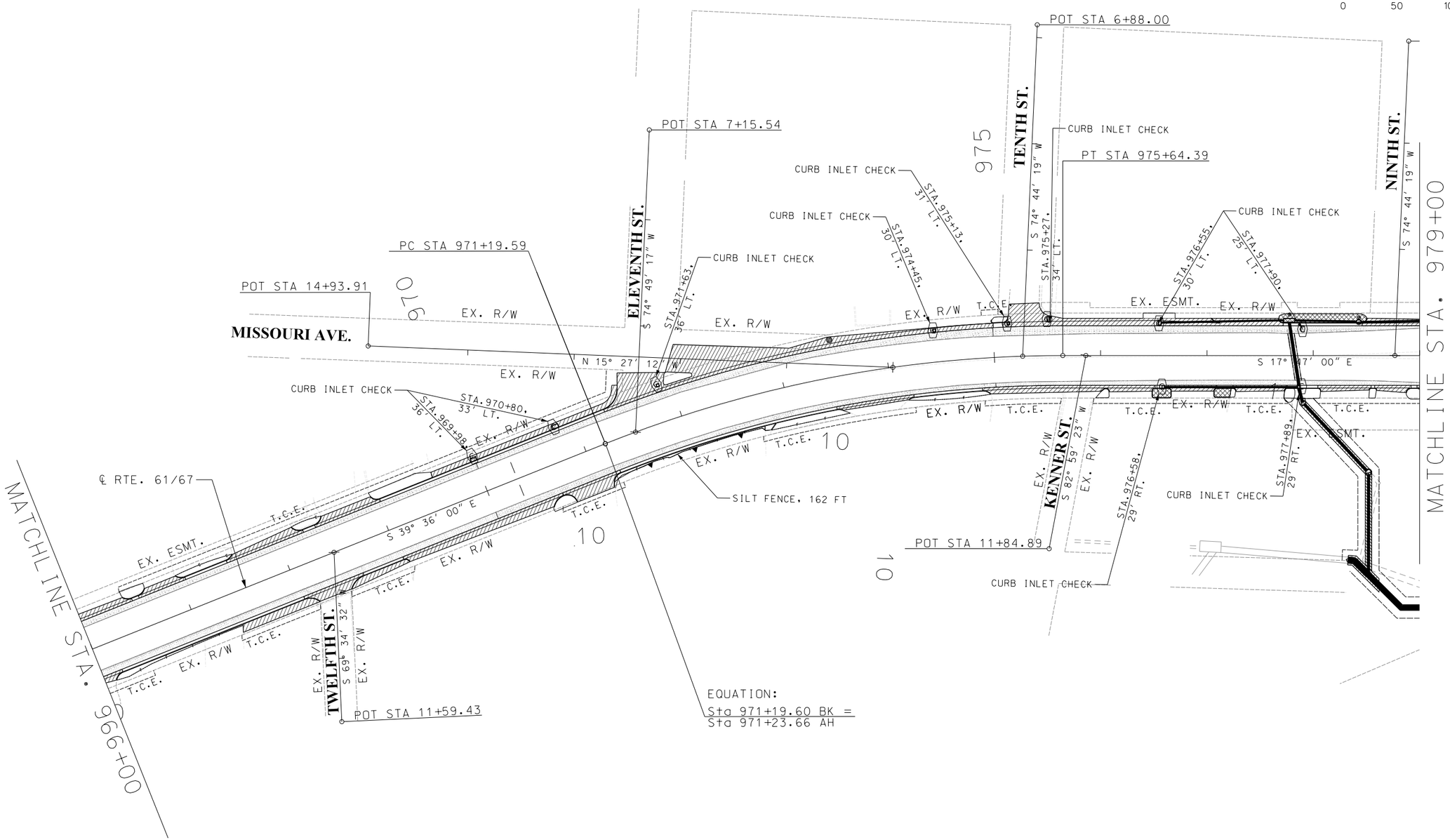
(C) CURB INLET CHECK

(A) ALTERNATE DITCH CHECK

SILT FENCE

SCALE

0 50 100 150



EQUATION:
Sta 971+19.60 BK =
Sta 971+23.66 AH

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EROSION CONTROL
PLAN SHEET
SHEET 4 OF 5

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	53

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

TEMPORARY EROSION CONTROL LEGEND

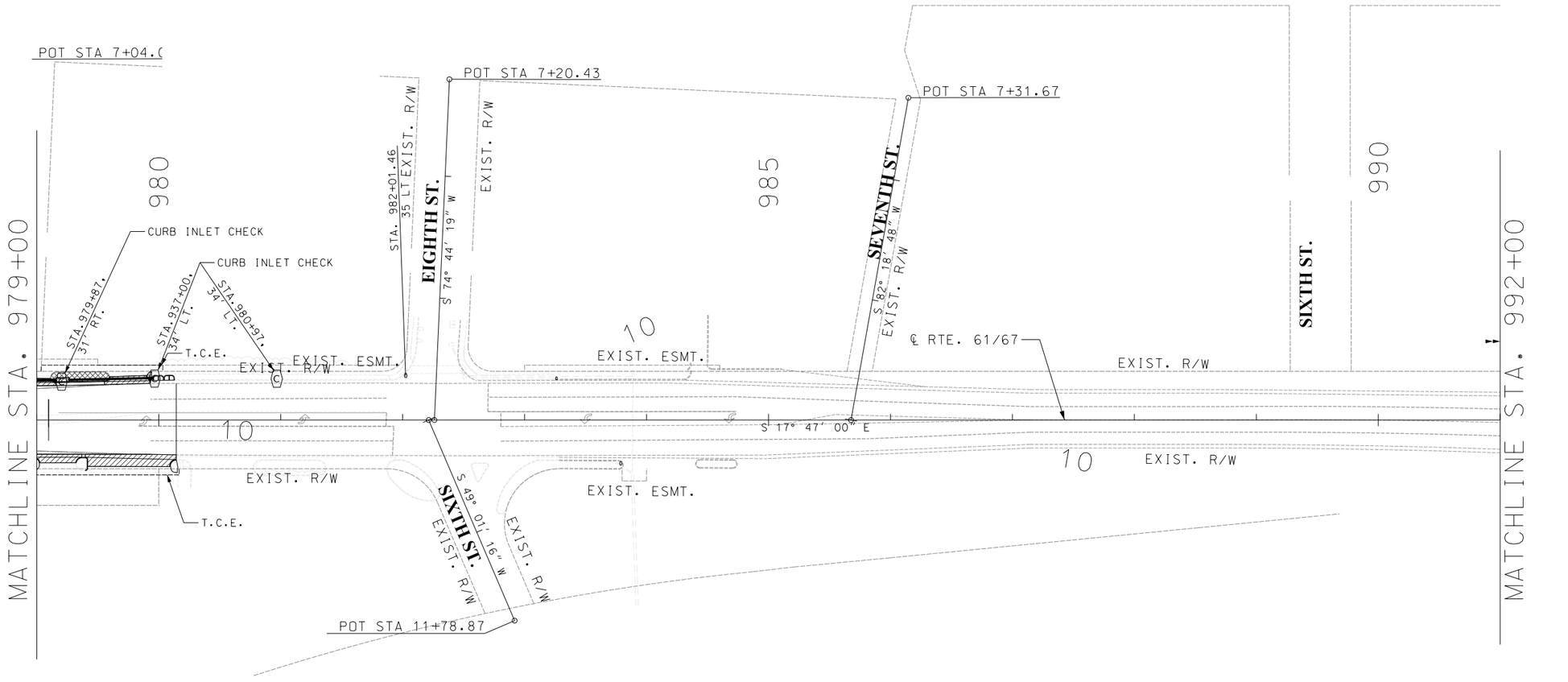
(C) CURB INLET CHECK

(A) ALTERNATE DITCH CHECK

SILT FENCE

SCALE

0 50 100 150



EROSION CONTROL
PLAN SHEET
SHEET 5 OF 5

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	54

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

NOTES:

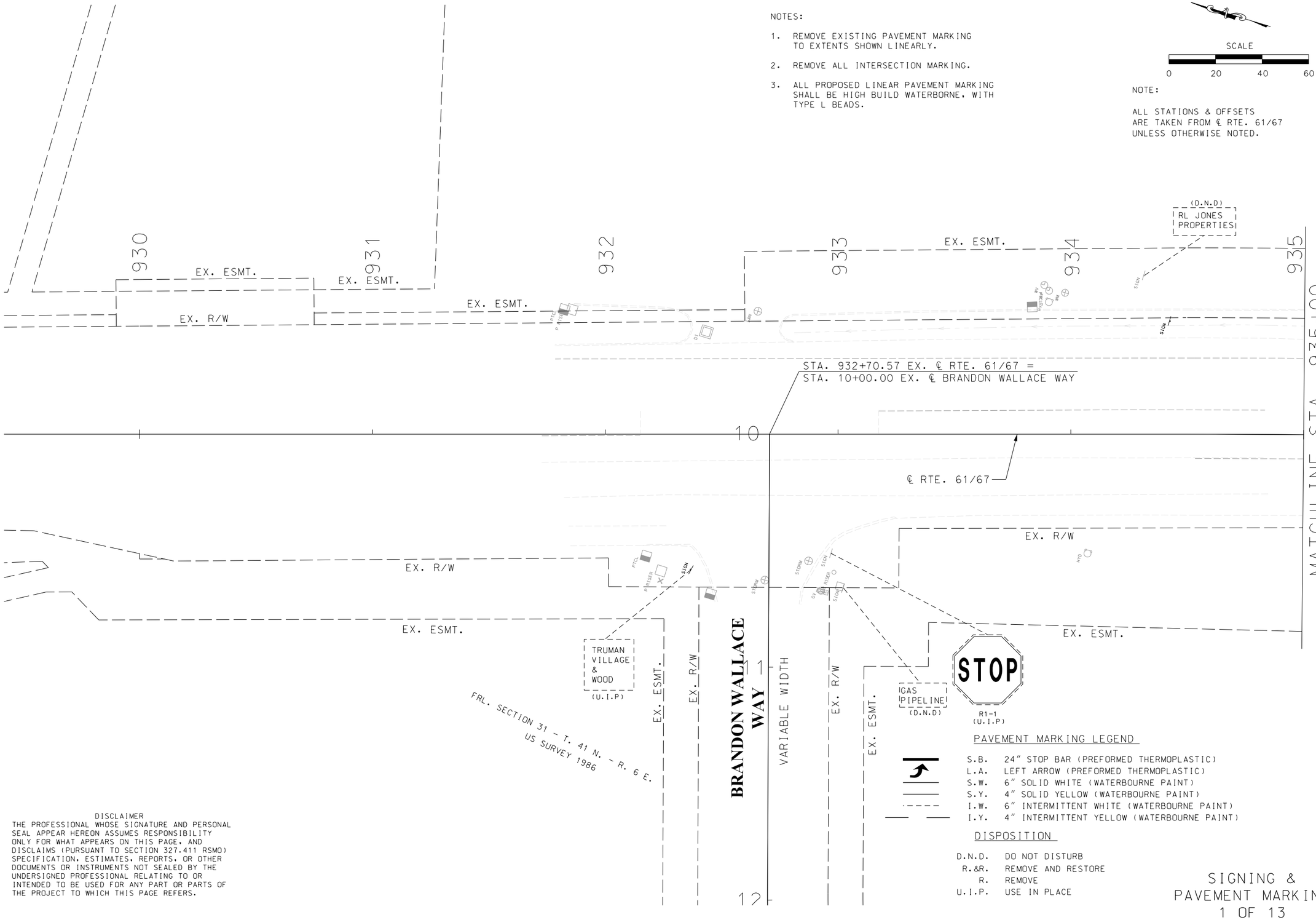
1. REMOVE EXISTING PAVEMENT MARKING TO EXTENTS SHOWN LINEARLY.
2. REMOVE ALL INTERSECTION MARKING.
3. ALL PROPOSED LINEAR PAVEMENT MARKING SHALL BE HIGH BUILD WATERBORNE, WITH TYPE L BEADS.

SCALE

0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.



PAVEMENT MARKING LEGEND

	S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
	L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
	S.W.	6" SOLID WHITE (WATERBOURNE PAINT)
	S.Y.	4" SOLID YELLOW (WATERBOURNE PAINT)
- - - -	I.W.	6" INTERMITTENT WHITE (WATERBOURNE PAINT)
— —	I.Y.	4" INTERMITTENT YELLOW (WATERBOURNE PAINT)

DISPOSITION

D.N.D.	DO NOT DISTURB
R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

DISCLAIMER
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SIGNING & PAVEMENT MARKING
1 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	55

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

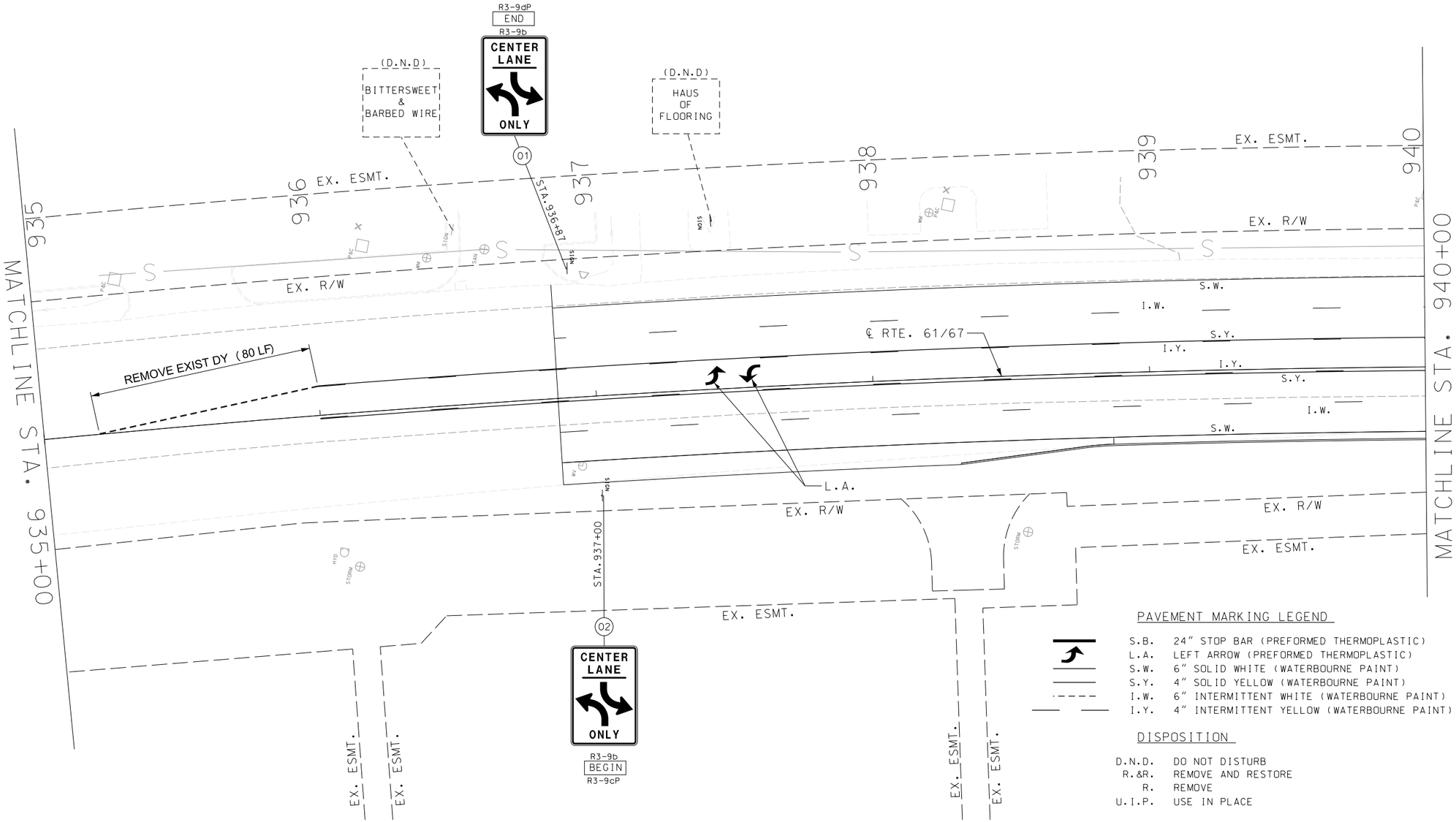
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NOTES:

1. REMOVE EXISTING PAVEMENT MARKING TO EXTENTS SHOWN LINEARLY.
2. REMOVE ALL INTERSECTION MARKING.
3. ALL PROPOSED LINEAR PAVEMENT MARKING SHALL BE HIGH BUILD WATERBORNE, WITH TYPE L BEADS.

SCALE
0 20 40 60

NOTE:
ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.



PAVEMENT MARKING LEGEND

S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
S.W.	6" SOLID WHITE (WATERBOURNE PAINT)
S.Y.	4" SOLID YELLOW (WATERBOURNE PAINT)
I.W.	6" INTERMITTENT WHITE (WATERBOURNE PAINT)
I.Y.	4" INTERMITTENT YELLOW (WATERBOURNE PAINT)

DISPOSITION

D.N.D.	DO NOT DISTURB
R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

SIGNING & PAVEMENT MARKING
2 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	56

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
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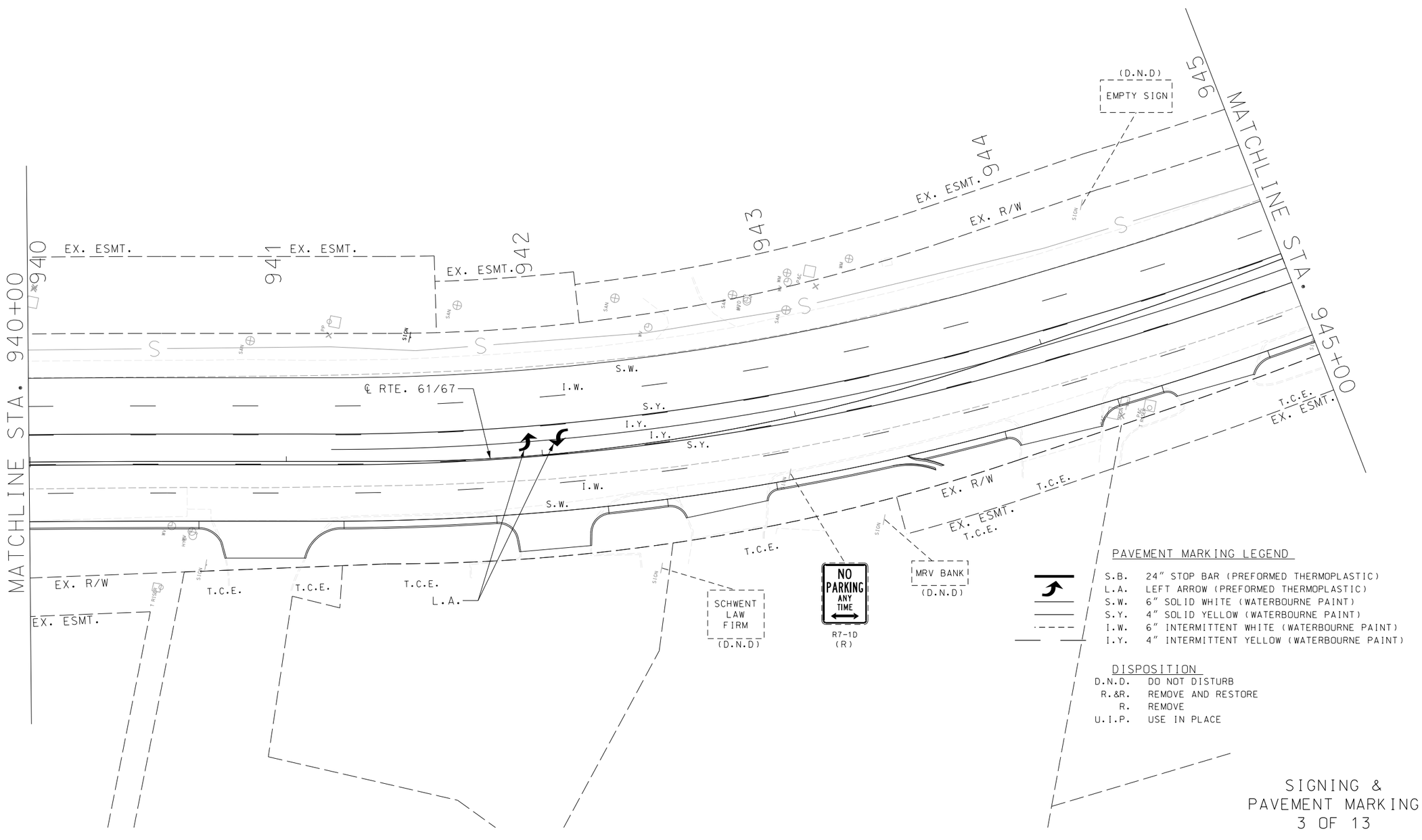
NOTES:

1. REMOVE EXISTING PAVEMENT MARKING TO EXTENTS SHOWN LINEARLY.
2. REMOVE ALL INTERSECTION MARKING.
3. ALL PROPOSED LINEAR PAVEMENT MARKING SHALL BE HIGH BUILD WATERBORNE, WITH TYPE L BEADS.

SCALE
0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.



PAVEMENT MARKING LEGEND

S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
S.W.	6" SOLID WHITE (WATERBOURNE PAINT)
S.Y.	4" SOLID YELLOW (WATERBOURNE PAINT)
I.W.	6" INTERMITTENT WHITE (WATERBOURNE PAINT)
I.Y.	4" INTERMITTENT YELLOW (WATERBOURNE PAINT)

DISPOSITION

D.N.D.	DO NOT DISTURB
R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

SIGNING & PAVEMENT MARKING
3 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	57

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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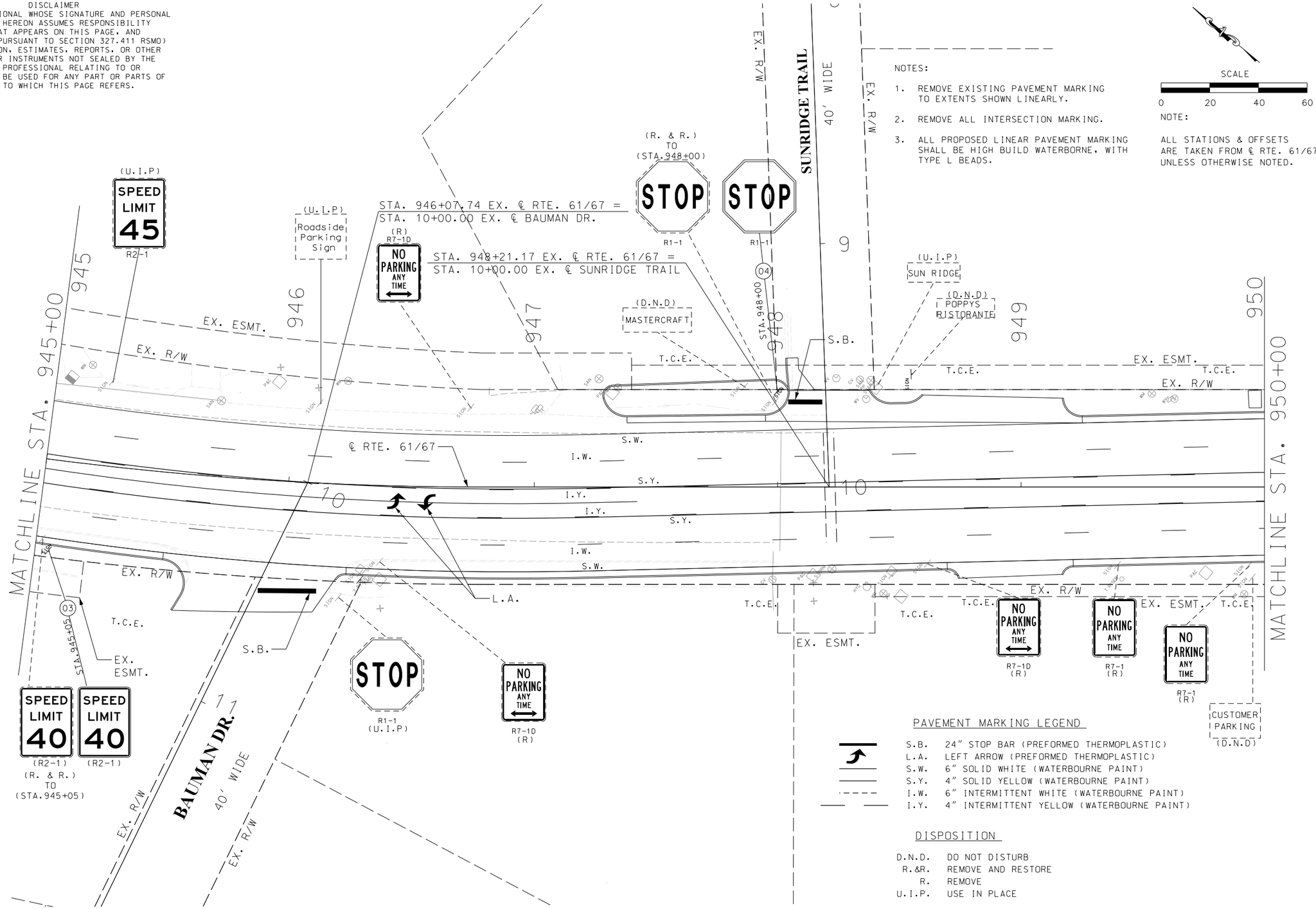
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3. ALL PROPOSED LINEAR PAVEMENT MARKING SHALL BE HIGH BUILD WATERBORNE, WITH TYPE L BEADS.

SCALE
0 20 40 60

NOTE:
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PAVEMENT MARKING LEGEND

S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
S.W.	6" SOLID WHITE (WATERBOURNE PAINT)
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I.Y.	4" INTERMITTENT YELLOW (WATERBOURNE PAINT)

DISPOSITION

D.N.D.	DO NOT DISTURB
R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

SIGNING & PAVEMENT MARKING
4 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	58

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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PAVEMENT MARKING LEGEND

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DISPOSITION

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R.&R.	REMOVE AND RESTORE
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U.I.P.	USE IN PLACE

NOTES:

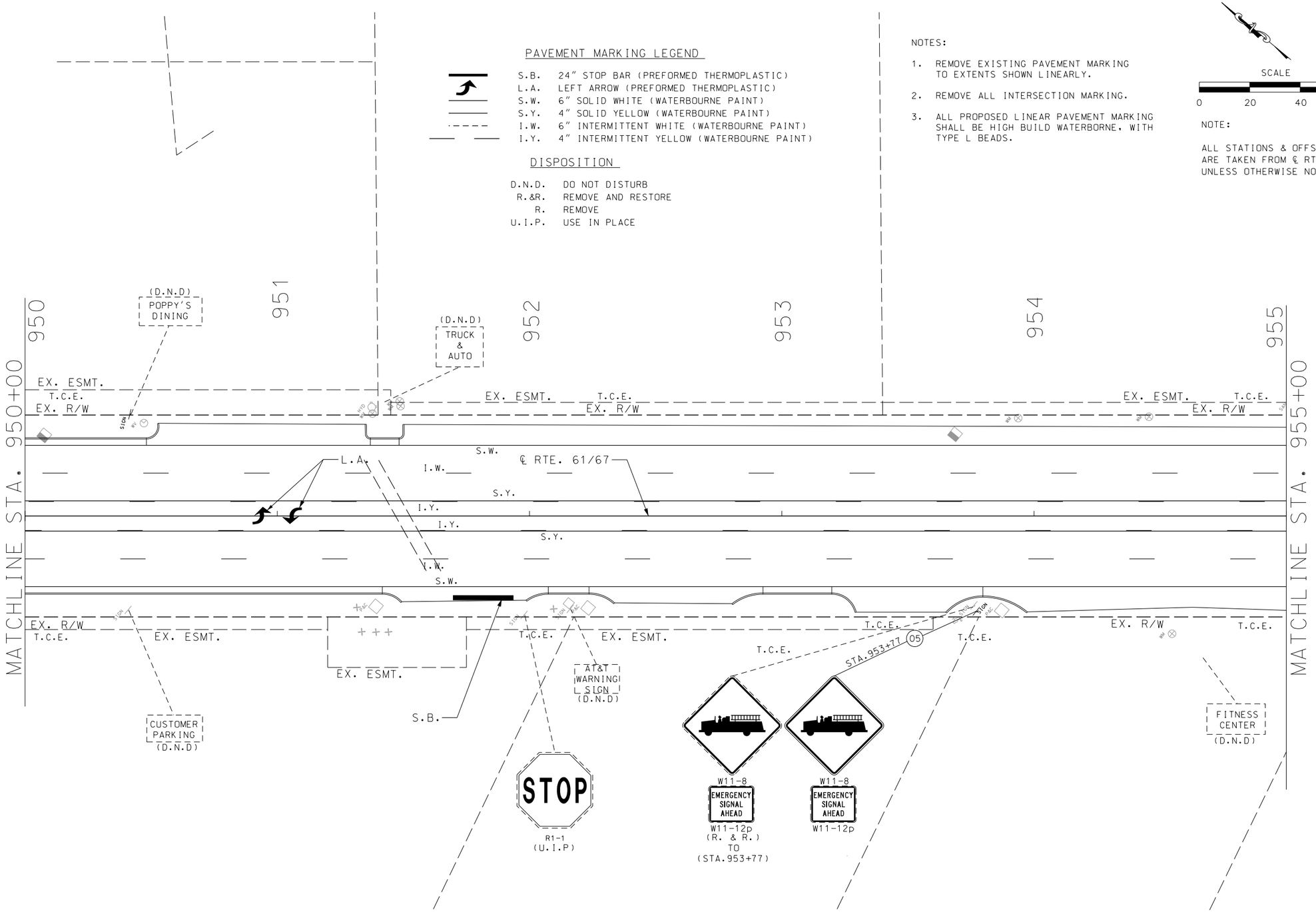
1. REMOVE EXISTING PAVEMENT MARKING TO EXTENTS SHOWN LINEARLY.
2. REMOVE ALL INTERSECTION MARKING.
3. ALL PROPOSED LINEAR PAVEMENT MARKING SHALL BE HIGH BUILD WATERBORNE, WITH TYPE L BEADS.

SCALE

0 20 40 60

NOTE:

ALL STATIONS & OFFSETS ARE TAKEN FROM ℄ RTE. 61/67 UNLESS OTHERWISE NOTED.



DISCLAIMER
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SIGNING & PAVEMENT MARKING
5 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	59

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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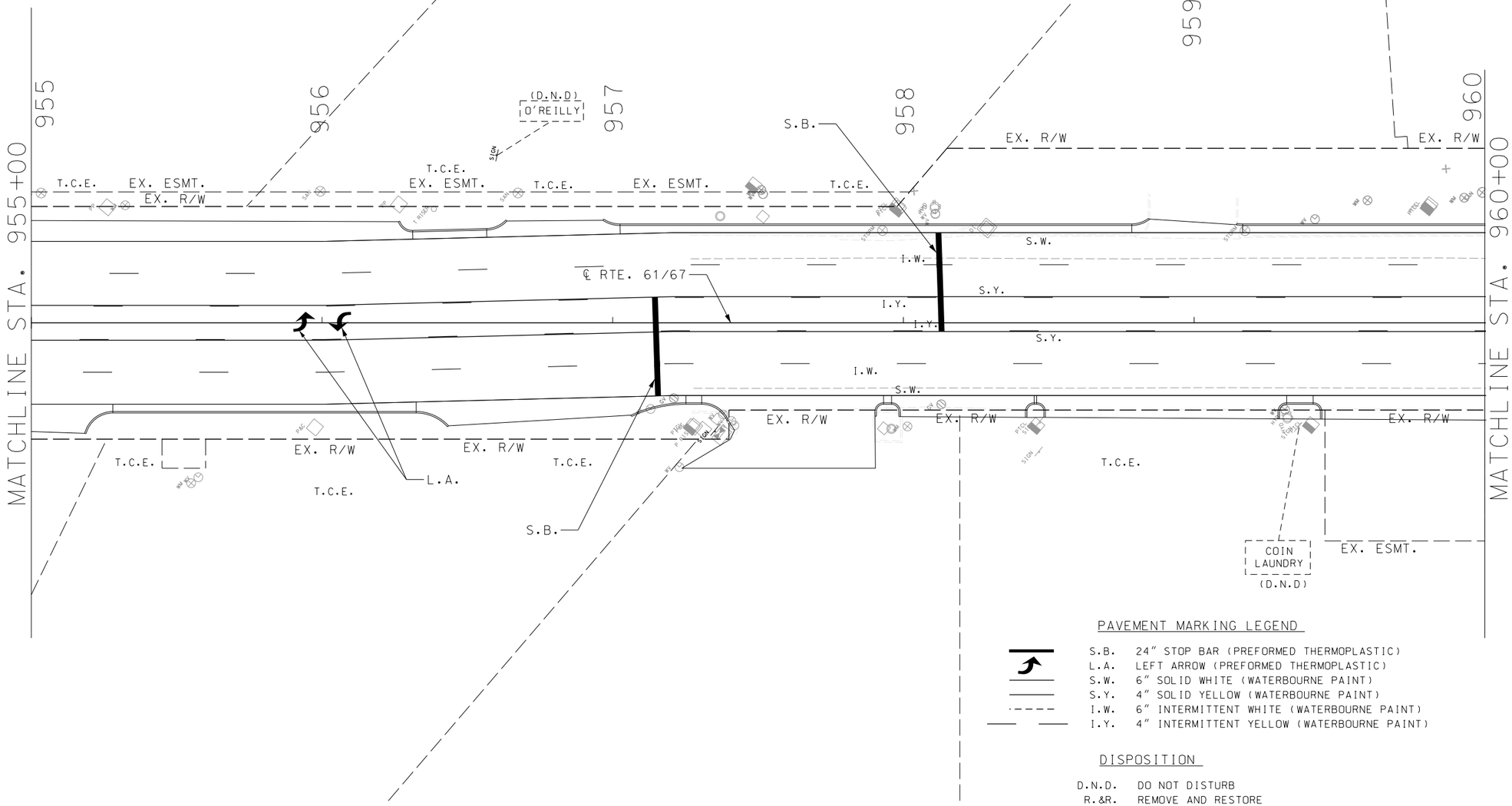
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SCALE
0 20 40 60

NOTE:

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PAVEMENT MARKING LEGEND

S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
S.W.	6" SOLID WHITE (WATERBOURNE PAINT)
S.Y.	4" SOLID YELLOW (WATERBOURNE PAINT)
I.W.	6" INTERMITTENT WHITE (WATERBOURNE PAINT)
I.Y.	4" INTERMITTENT YELLOW (WATERBOURNE PAINT)

DISPOSITION

D.N.D.	DO NOT DISTURB
R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

SIGNING & PAVEMENT MARKING
6 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
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William G. Krussel
MO PE-27561

DATE PREPARED
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ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	60

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

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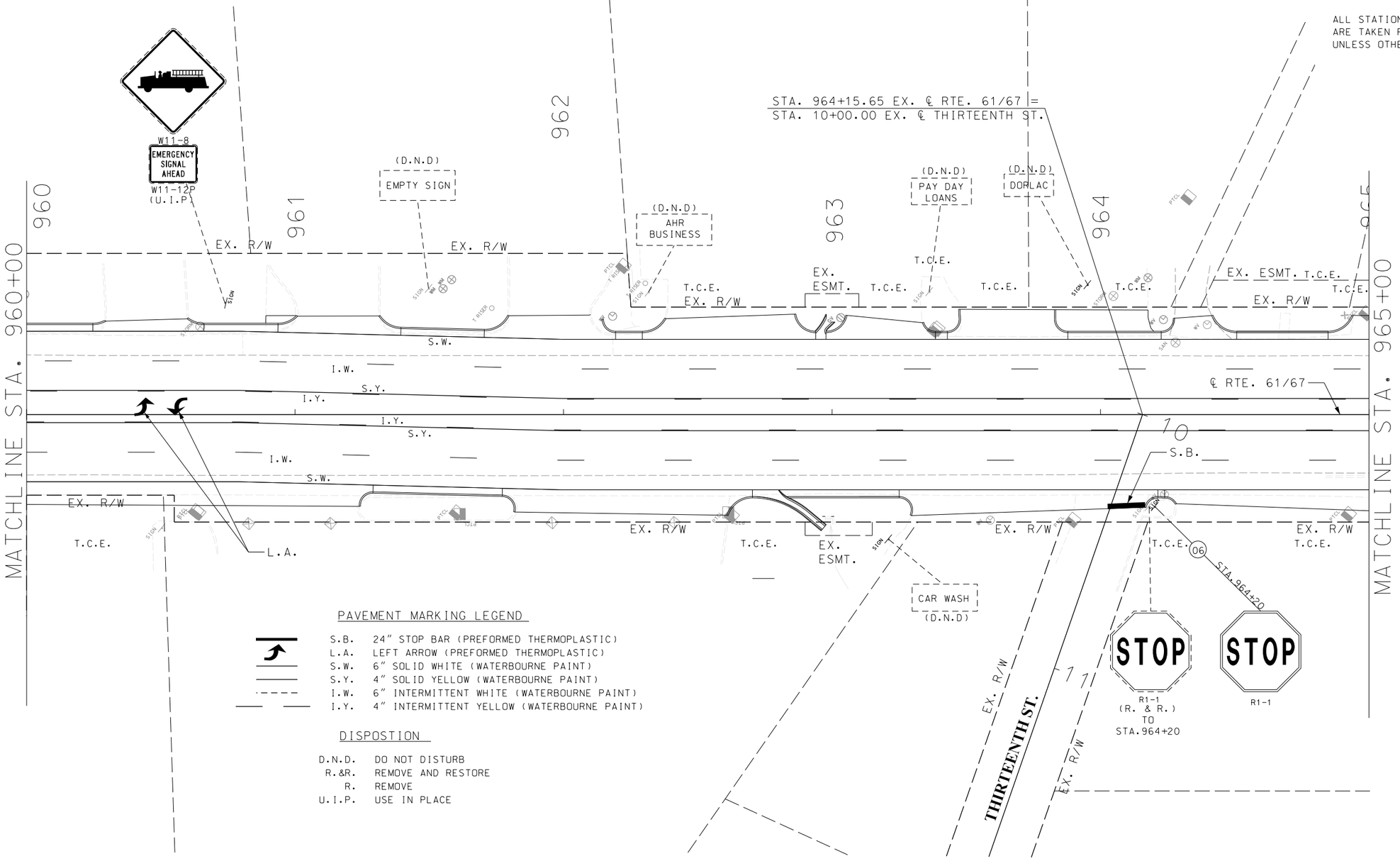
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SCALE
0 20 40 60

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DISPOSTION

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SIGNING & PAVEMENT MARKING
7 OF 13

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SL	61

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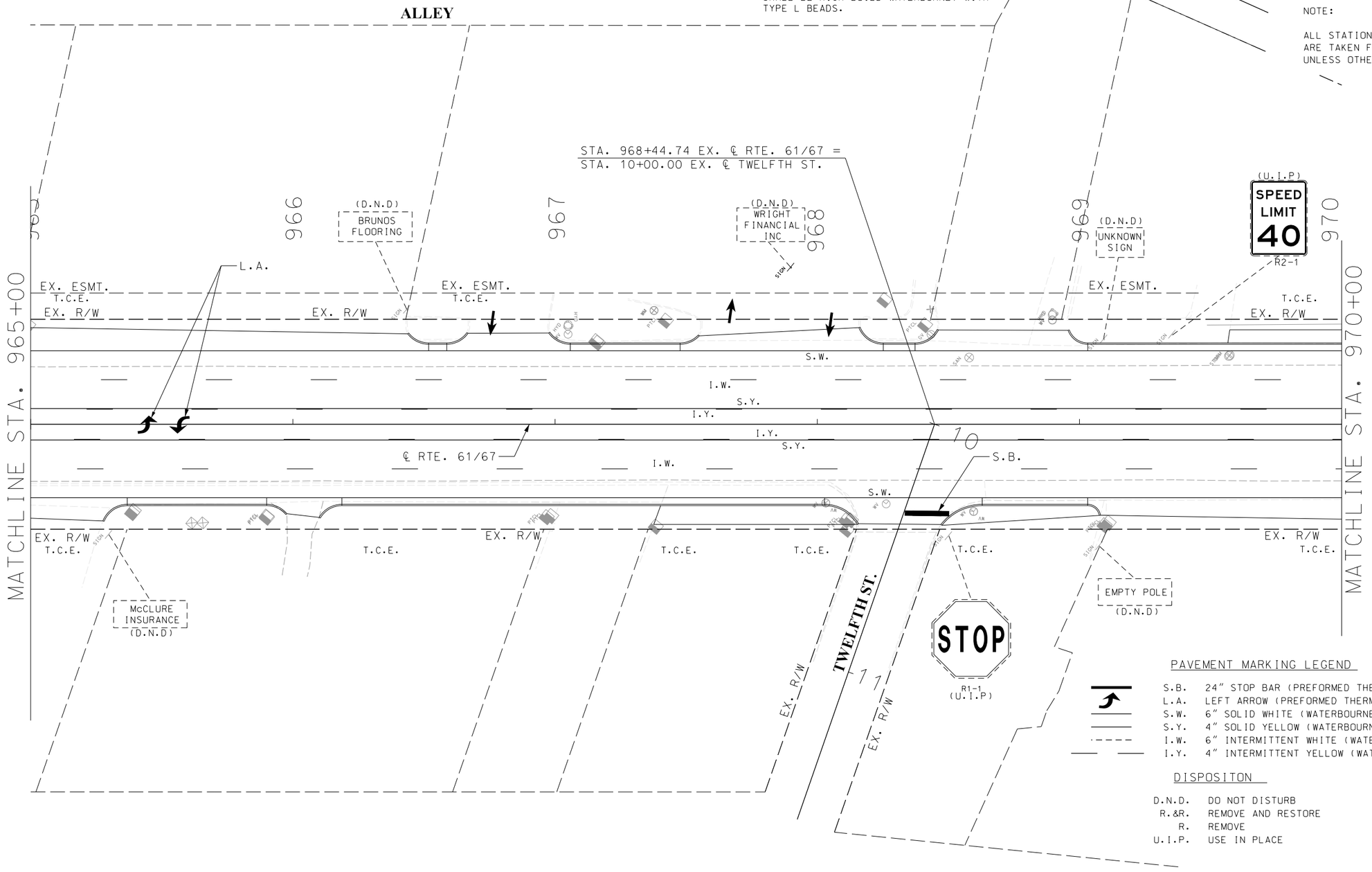
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SIGNING & PAVEMENT MARKING
8 OF 13

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ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	62

COUNTY
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JOB NO.
J6S3391

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PROJECT NO.

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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
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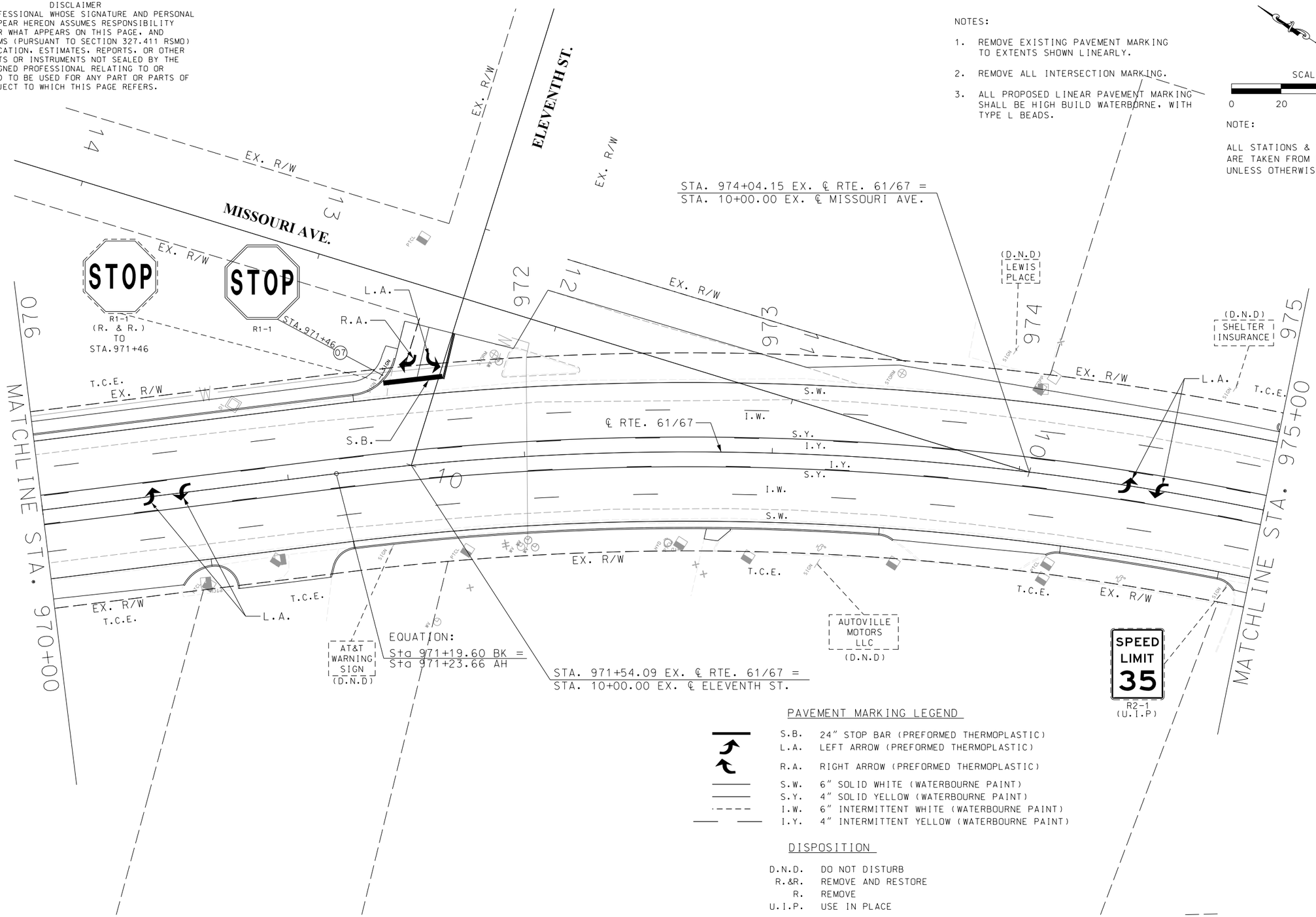
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SCALE
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PAVEMENT MARKING LEGEND

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DISPOSITION

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R.&R.	REMOVE AND RESTORE
R.	REMOVE
U.I.P.	USE IN PLACE

SIGNING & PAVEMENT MARKING
9 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	63

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SCALE 0 20 40 60

MATCHLINE STA. 975+00

MATCHLINE STA. 980+00

STA. 975+86.12 EX. ℄ RTE. 61/67 = STA. 10+00.00 EX. ℄ KENNER ST.

STA. 978+76.75 EX. ℄ RTE. 61/67 = STA. 10+00.00 EX. ℄ NINTH ST.

STA. 975+26.68 EX. ℄ RTE. 61/67 = STA. 10+00.00 EX. ℄ TENTH ST.

TENTH ST.

NINTH ST.

KENNER ST.

FIRST ST. 30' WIDE

(U.I.P) R1-1 STOP

(U.I.P) 10TH AVENUE STREET

(D.N.D) MAIN STREET CAFE

(R) R7-1D NO PARKING ANY TIME

(D.N.D) JULIA'S SALON

(D.N.D) AMERICAN FAMILY INSURANCE

(D.N.D) FUMEE BUSINESS

(U.I.P) 10TH AVENUE STREET

(D.N.D) I CAR WASH

R7-1 (R) NO PARKING ANY TIME

R1-1 U.I.P STOP

EX. R/W

EX. ESMT.

T.C.E.

S.B. L.A.

S.W. I.W. S.Y. I.Y.

℄ RTE. 61/67

SINK HOLE (FILLED IN)

PAVEMENT MARKING LEGEND

S.B.	24" STOP BAR (PREFORMED THERMOPLASTIC)
L.A.	LEFT ARROW (PREFORMED THERMOPLASTIC)
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SIGNING & PAVEMENT MARKING
10 OF 13

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED 4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	64

COUNTY JEFFERSON

JOB NO. J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE | DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

WSP
211 N. BROADWAY.
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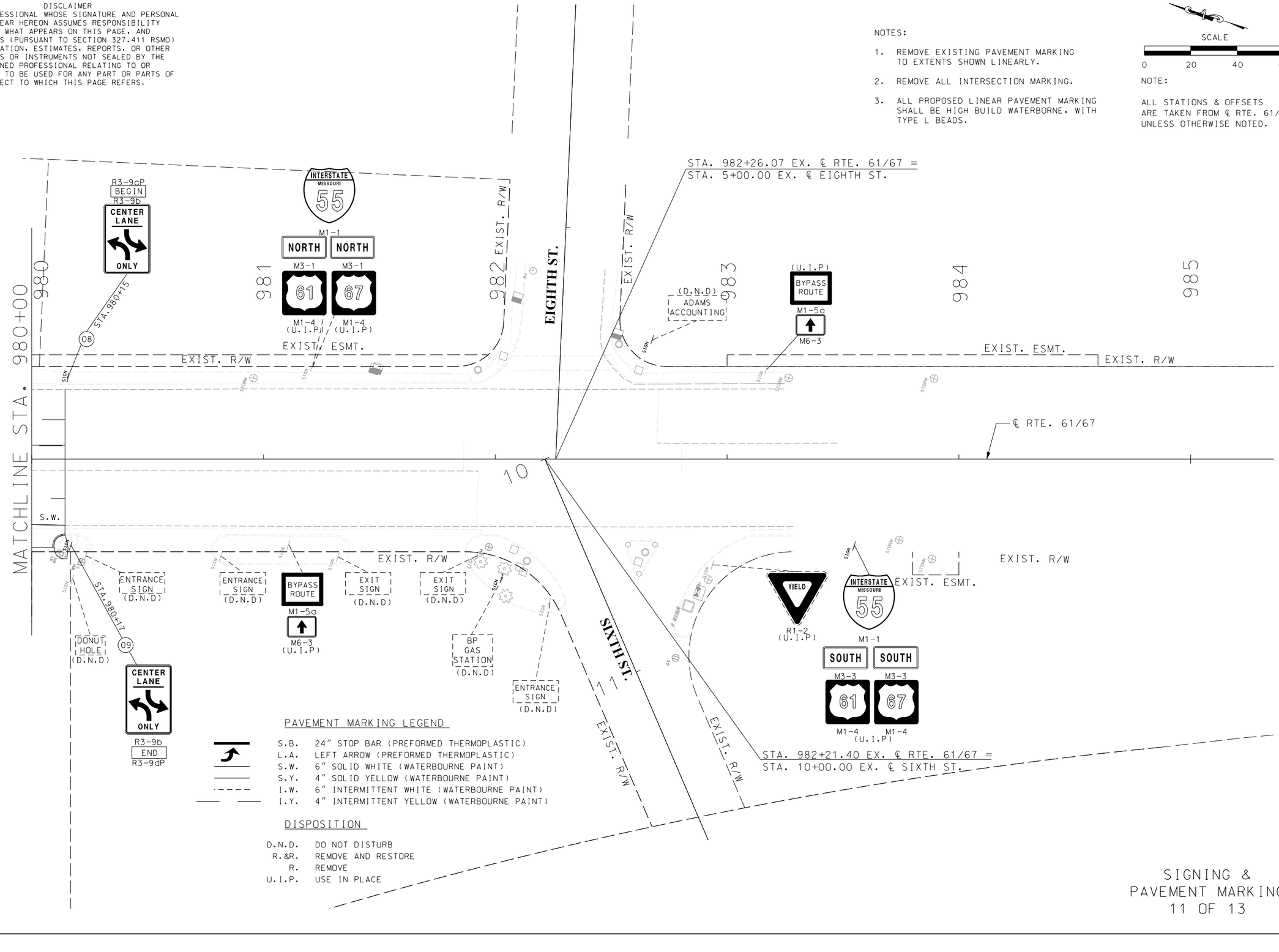
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SCALE
0 20 40 60

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PAVEMENT MARKING LEGEND

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DISPOSITION

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R.&R.	REMOVE AND RESTORE
R.	REMOVE
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SIGNING & PAVEMENT MARKING
11 OF 13

WILLIAM G. KRUSSEL
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STATE OF MISSOURI
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William G. Krussel
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ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	65

COUNTY
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JOB NO.
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CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

EFFECTIVE: 07-01-2024

SIGNS						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE												BREAK-AWAY ASSEMBLY	REMARKS AND OTHER REQUIRED ITEMS
902 SIGNAL SIGNS TABULATED ON D-37A SHEET																						2-INCH POST						2.5-INCH POST							
																									ANCHORS						ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL ITEM NO. 9031210	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 9031220	2" X 3/8" BARS AT 2.55 LBS/FT NO.	LGTH	TOTAL	TOTAL	ITEM NO. 9031250A	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031270A	DRIVEN 12 GA. ITEM NO. 9031271A	DRIVEN 7 GA. ITEM NO. 9031273A	CONCRETE 7 GA. ITEM NO. 9031274	POST NO. 1	POST NO. 2	TOTAL ITEM NO. 9031280	2.25" INSERT (6 FT) ITEM NO. 9031272A	DRIVEN 7 GA. ITEM NO. 9031281A	CONCRETE 7 GA. ITEM NO. 9031285	ITEM NO. 9031241	
						CY		LF	LF	LF		LBS	IN	LF	LF		LBS	EACH	IN.	LF	LBS	LF	LF	LF		EACH	EACH	EACH				EACH	EACH	EACH	EACH	
1	ASSEMBLY	936+92 LT				0.13							2.5	15.5		5.97	92.5																			
2	ASSEMBLY	937+00 RT				0.13							2.5	15.5		5.97	92.5																			
3	30"x36"	945+05 RT				0.13							2.5	14.5		5.97	86.6																			
4	36"x36"	948+00 LT				0.13							2.5	14.5		5.97	86.6																			
5	ASSEMBLY	953+77 RT				0.39							4.0	18.0		5.97	107.5																			
6	36"x36"	964+20 RT				0.13							2.5	14.5		5.97	86.6																			
7	36"x36"	971+46 LT				0.13							2.5	14.5		5.97	86.6																			
8	ASSEMBLY	980+15 LT				0.13							2.5	15.5		5.97	92.5																			
9	ASSEMBLY	980+18 RT				0.13							2.5	15.5		5.97	92.5																			
SUBTOTAL						1.5											830																			
TOTAL						1.5											830				**															

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE	WEIGHT		STUB LENGTH	FOOTING		CONCRETE
(IN.)	LBS/FT	LBS/IN		DIA.	DEPTH	C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

SIGNING & PAVEMENT MARKING
12 OF 13

D-29

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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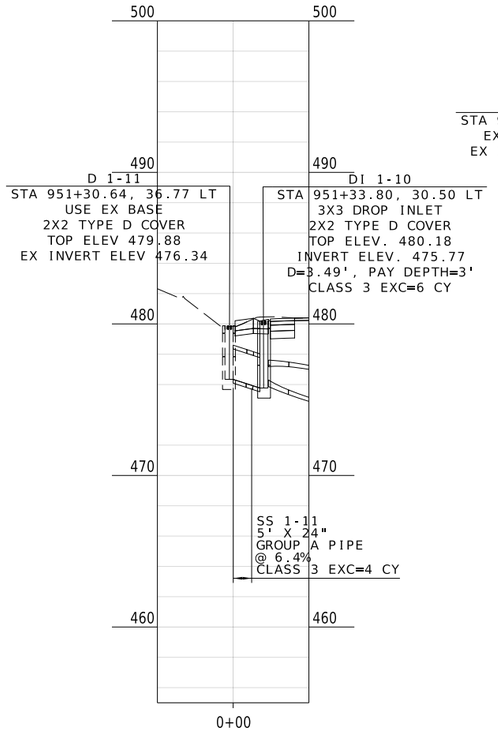
DESCRIPTION	DATE

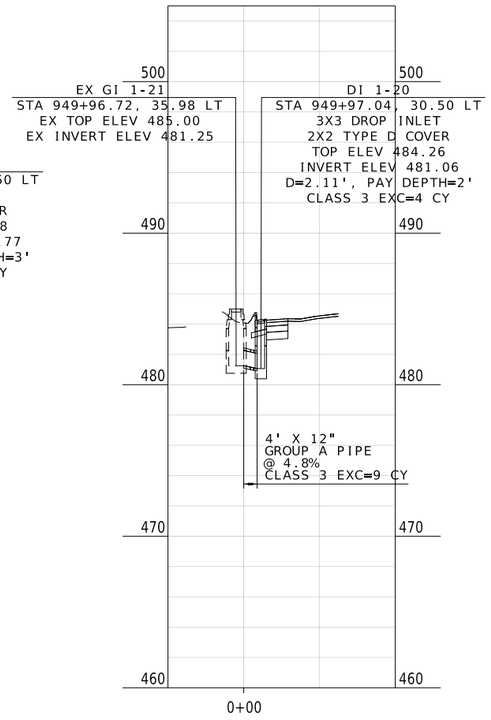
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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

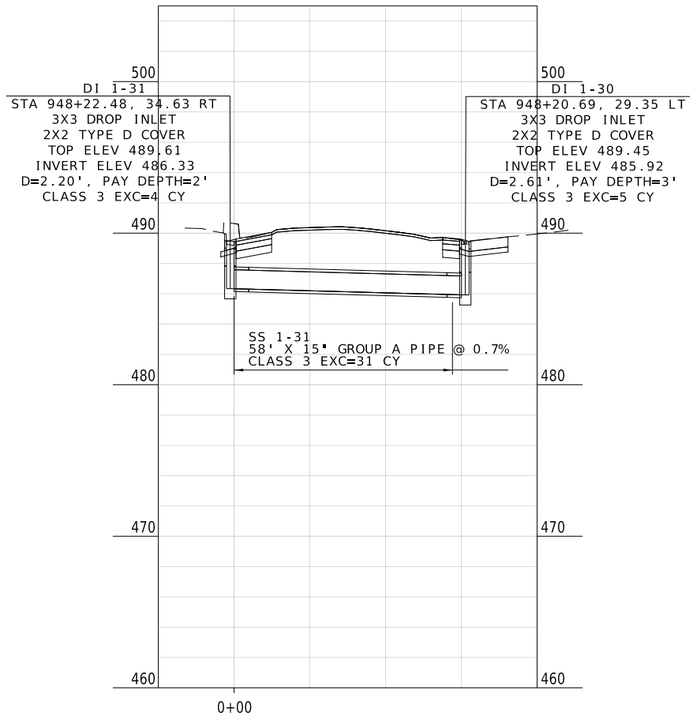
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SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

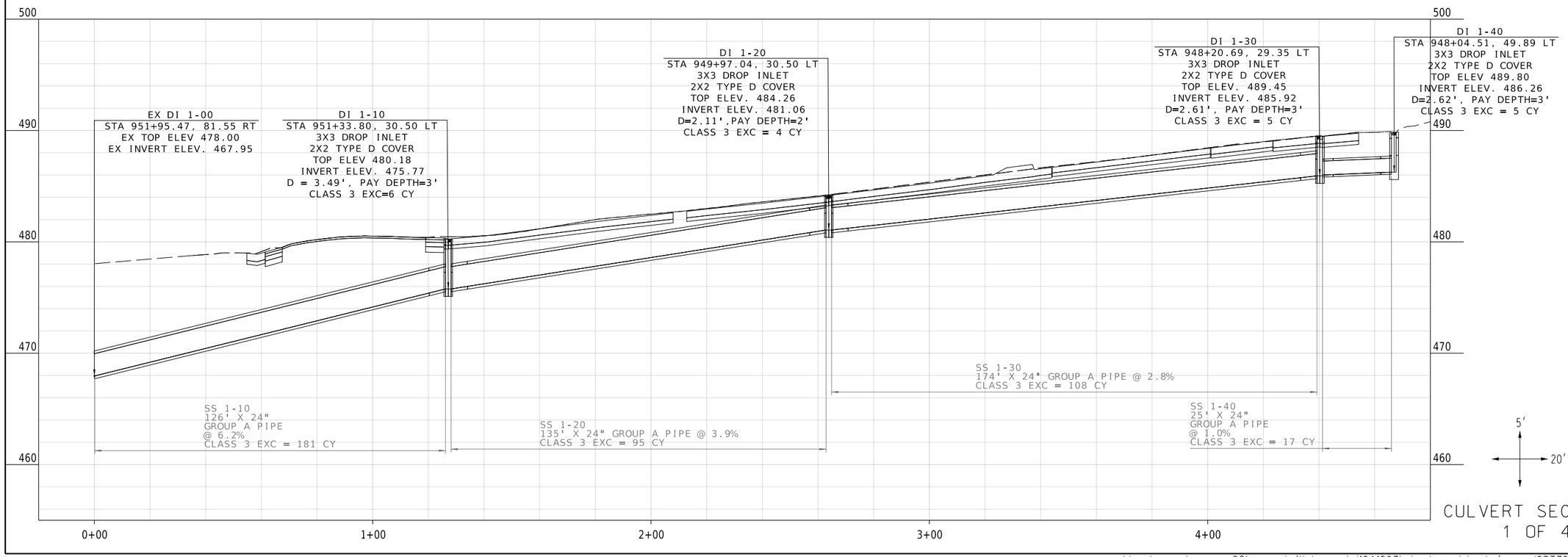
STANDARD SIGN ASSEMBLIES

| SIGN NO. | STATION OR LOG MILE | LOCATION | SIGN, TYPE, DESIGNATION, SIZE & NUMBER OF EACH | | |









CULVERT SECTIONS
1 OF 4

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	68

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

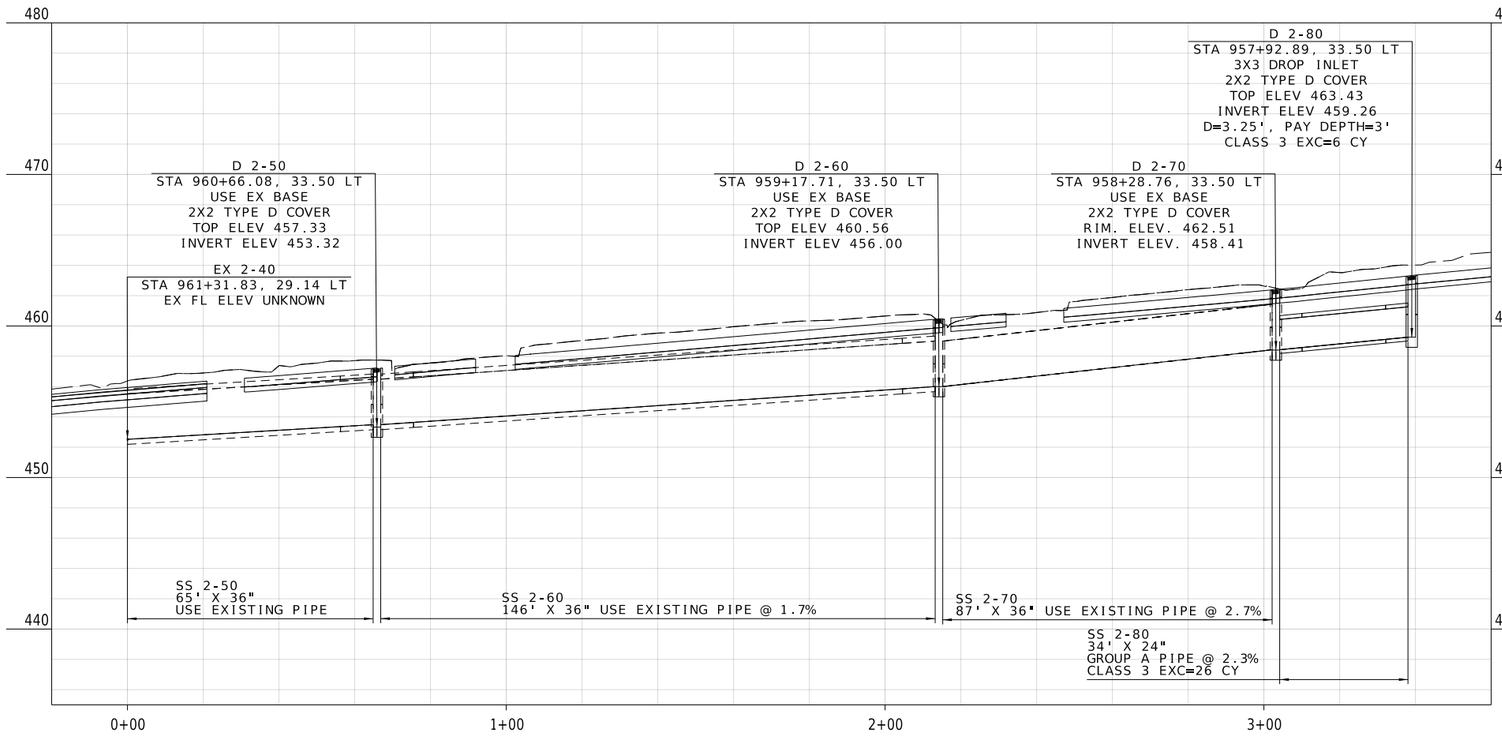
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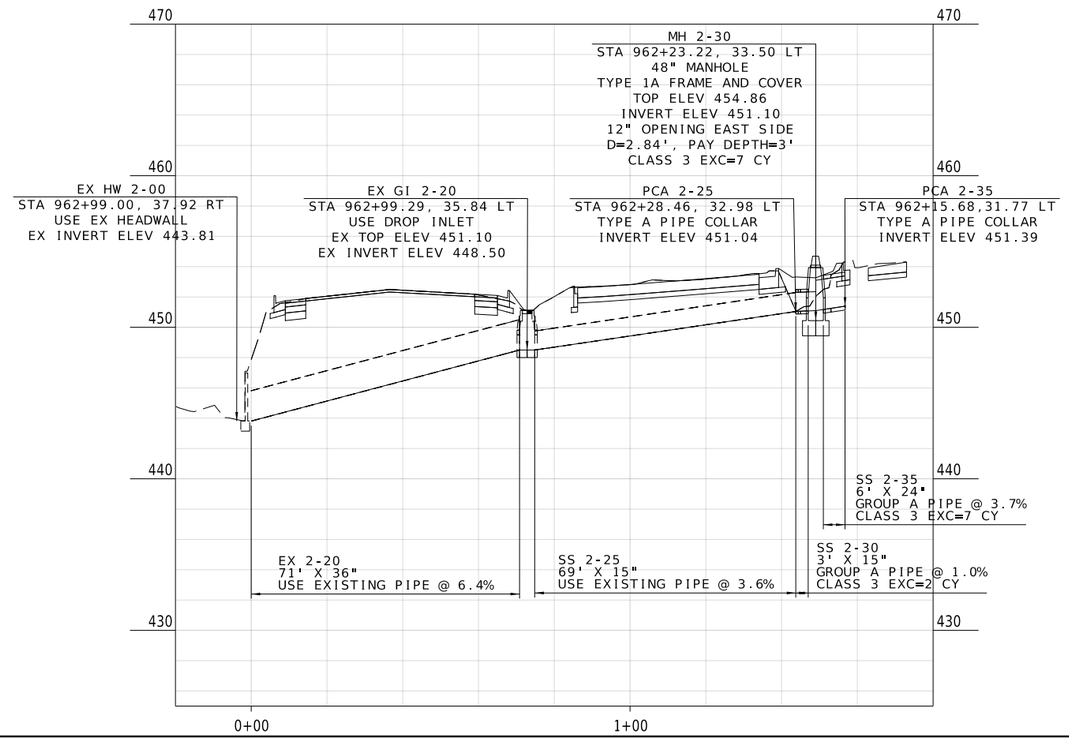
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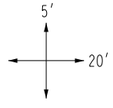
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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CULVERT SECTIONS
2 OF 4

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	69

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

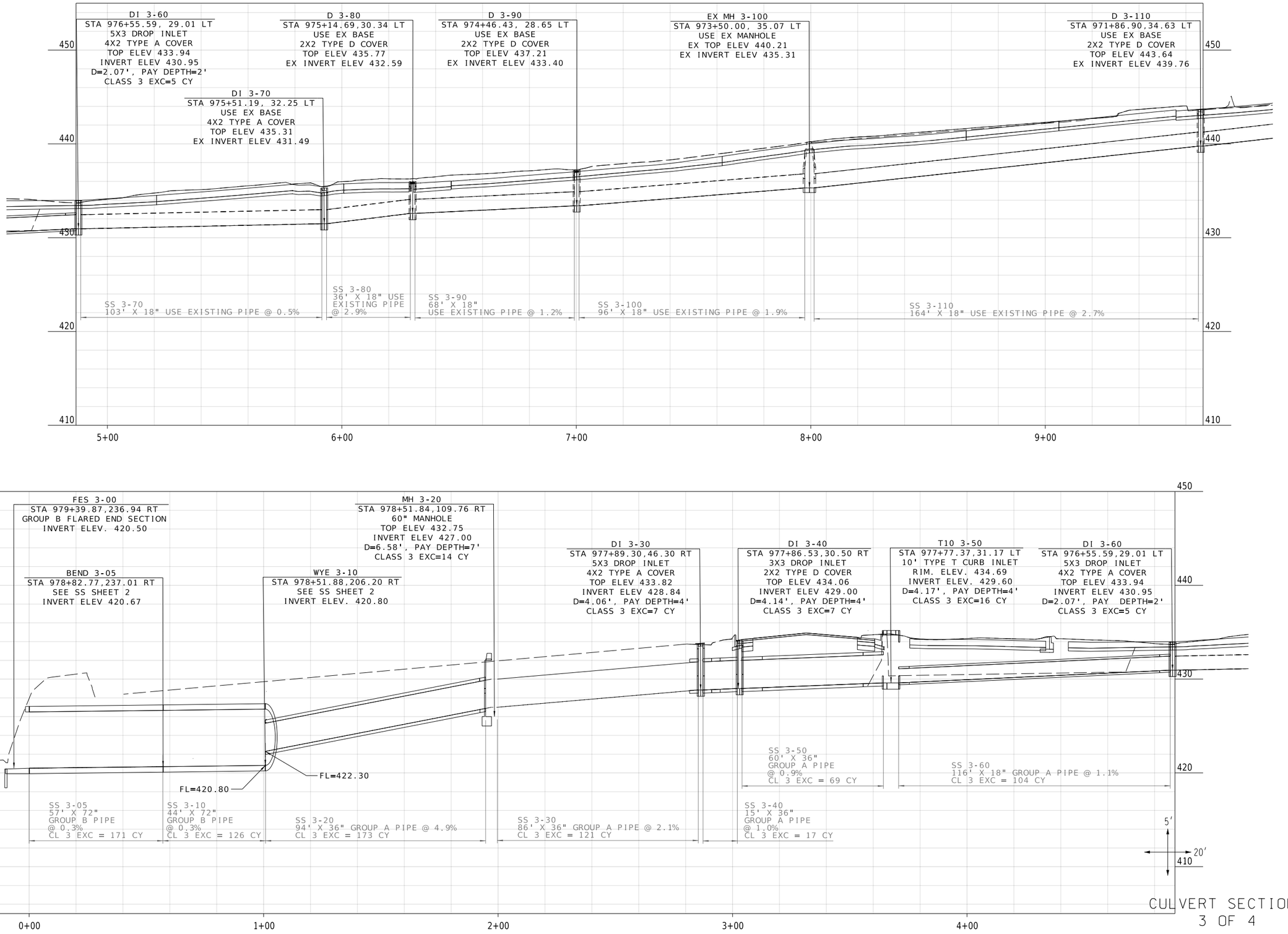
REV.	DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

WSP
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

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CULVERT SECTIONS 3 OF 4

WILLIAM G. KRUSSEL — STATE OF MISSOURI — NUMBER E-27561 — REGISTERED PROFESSIONAL ENGINEER

04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	70

COUNTY: JEFFERSON

JOB NO.: J6S3391

CONTRACT ID.:

PROJECT NO.:

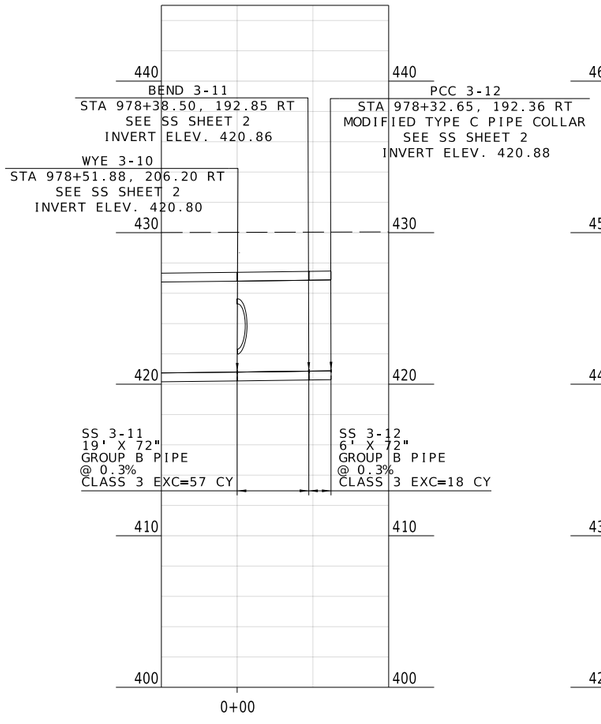
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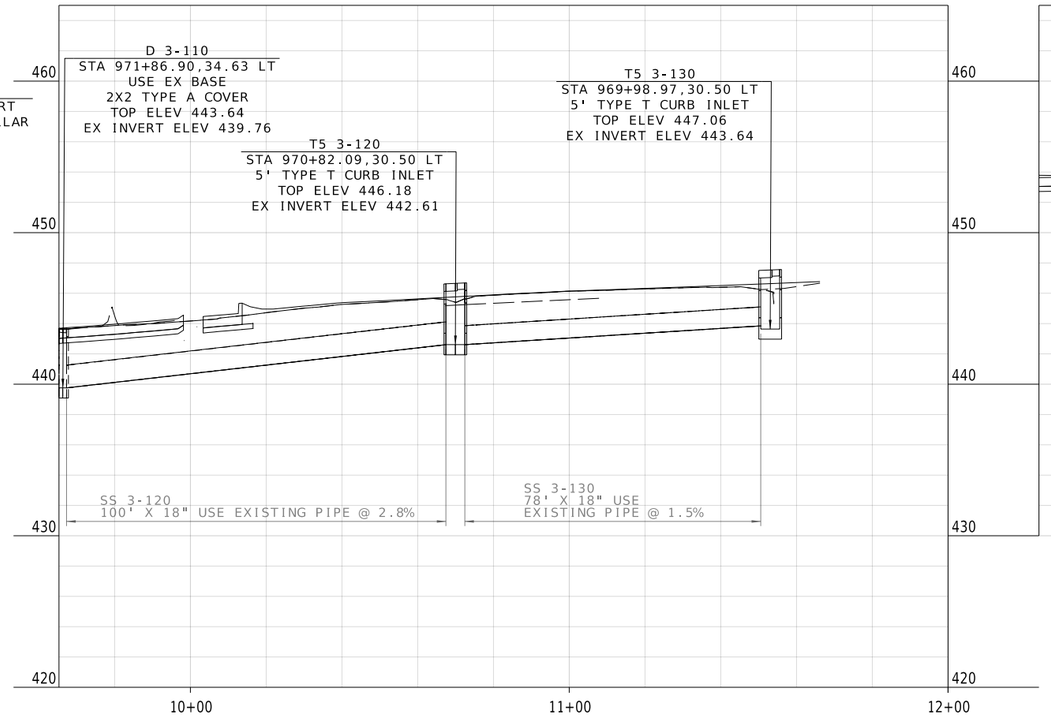
NO.	DESCRIPTION	DATE

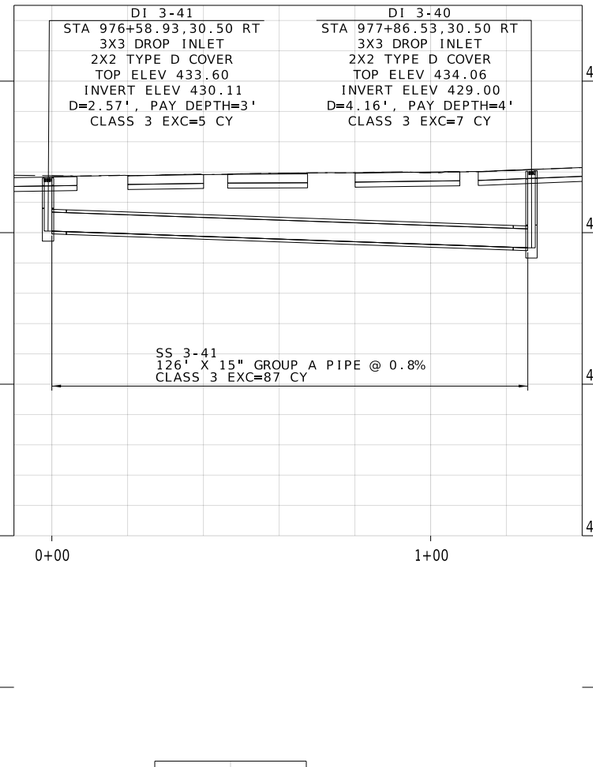
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

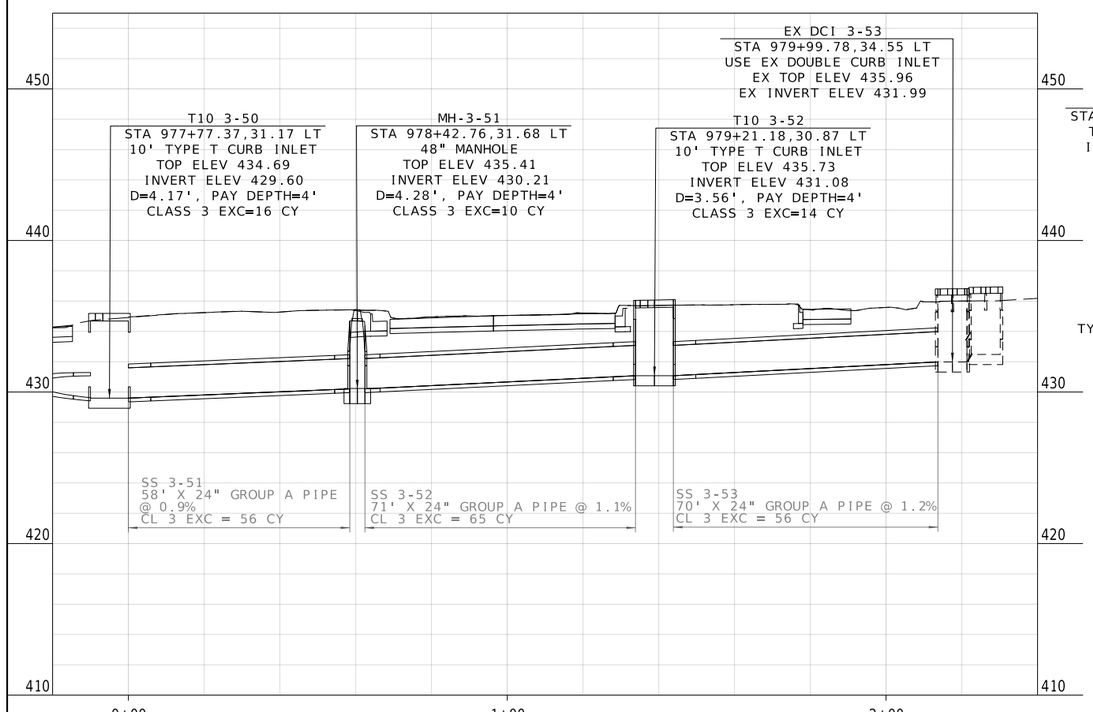
211 N. BROADWAY,
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING

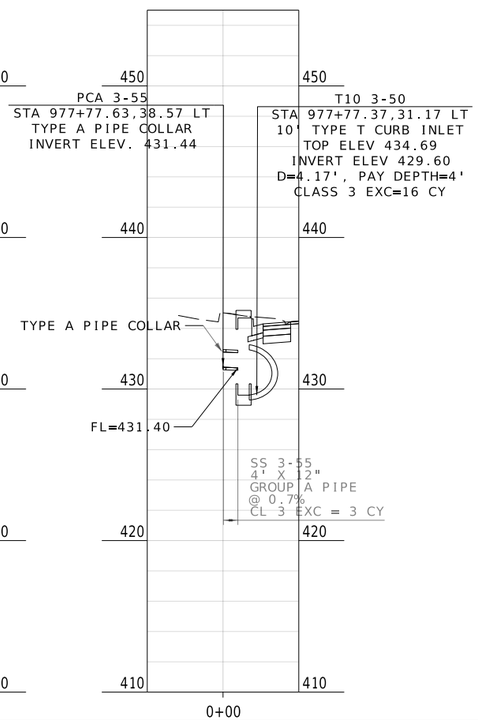
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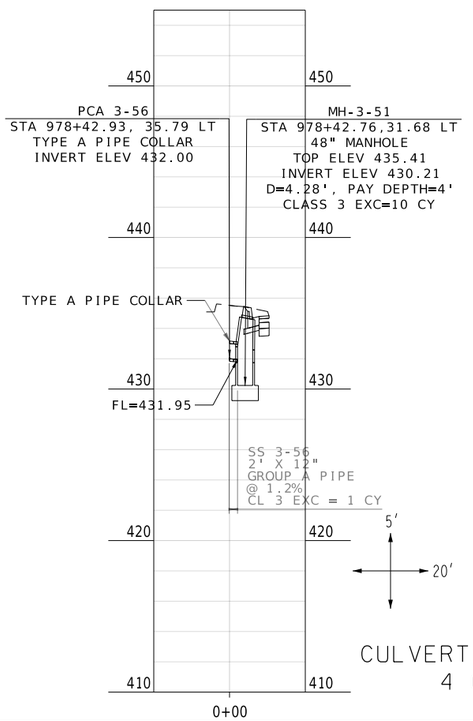












CULVERT SECTIONS
4 OF 4

STATE OF MISSOURI
WILLIAM G. KRUSSEL
NUMBER E-27561
REGISTERED PROFESSIONAL ENGINEER
04/09/2025 12:49:56 PM
William G. Krussel
MO PE-27561

DATE PREPARED
4/9/2025

ROUTE	STATE
61/67	MO
DISTRICT	SHEET NO.
SL	71

COUNTY
JEFFERSON

JOB NO.
J6S3391

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

211 N. BROADWAY.
SUITE 2800
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
NO. 001444 ENGINEERING