

A.A.D.T. - 2026 = 30,100
A.A.D.T. - 2046 = 33,110
D.H.V. = 8.6%
T = 7.8%
V = 40-45 M.P.H.
D = 52%/48%

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

**STORMWATER
MANAGEMENT NOTE**
(FOR INFORMATION ONLY)

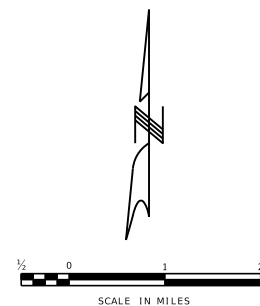
PROJECT DISTURBANCE = 0 ACRES
PROJECT RUNOFF DIFFERENTIAL = 0 CFS
PROJECT IMPERVIOUS DIFFERENTIAL = 0 ACRES

	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 -

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

DISCLAIMER

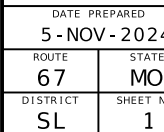
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (3 SHEET)----	2
QUANTITIES (QU) (7 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-9
REF. & COORD. POINTS (RP)(CP)-----	10-13
SPECIAL SHEETS (SS)-----	14
TRAFFIC CONTROL SHEETS (TC)-----	15-68
SIGNING & PAVEMENT MARKING (PM)----	69-83
CULVERT SECTIONS (CS)-----	84
BRIDGE DRAWINGS (B)	
A1072 (COLDWATER CREEK)-----	1-16
A1074 (COLDWATER CREEK)-----	1-16
A4514 (LYNN HAVEN)-----	1-6

A1072	
BEGINNING OF PROJECT	STA. 112 + 90.00
END OF PROJECT	STA. 127 + 85.00
A1074	
BEGINNING OF PROJECT	STA. 247 + 52.24
END OF PROJECT	STA. 264 + 06.93
A4514	
BEGINNING OF PROJECT	STA. 231 + 38.83
END OF PROJECT	STA. 240 + 85.11

APPARENT LENGTH	4095.97 FEET
EQUATIONS AND EXCEPTIONS:	0.00 FEET
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	4095.97 FEET
STATE LENGTH	0.776 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.0 ACRES



PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

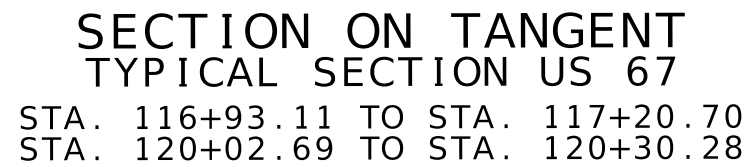
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO. 65102



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

1. THE TYPE A INTEGRAL CURB & TYPE 5 AGGREGATE BASE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONCRETE APPROACH PAVEMENT.
2. THE TYPE A INTEGRAL CURB SHALL NOT BE CONSTRUCTED WITHIN THE LIMITS OF THE CONCRETE PAD FOR THE TYPE D CRASHWORTHY END TERMINAL.



TYPICAL SECTIONS
(A1072)
SHEET 1 OF 3



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.



Riley J. Hoffman
09/27/2024 10:24:57 AM
Riley J. Hoffman
MO PE-2022042958

DATE PREPARED
9/27/2024
ROUTE **67** STATE **MO**
DISTRICT **SL** SHEET NO. **2**

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

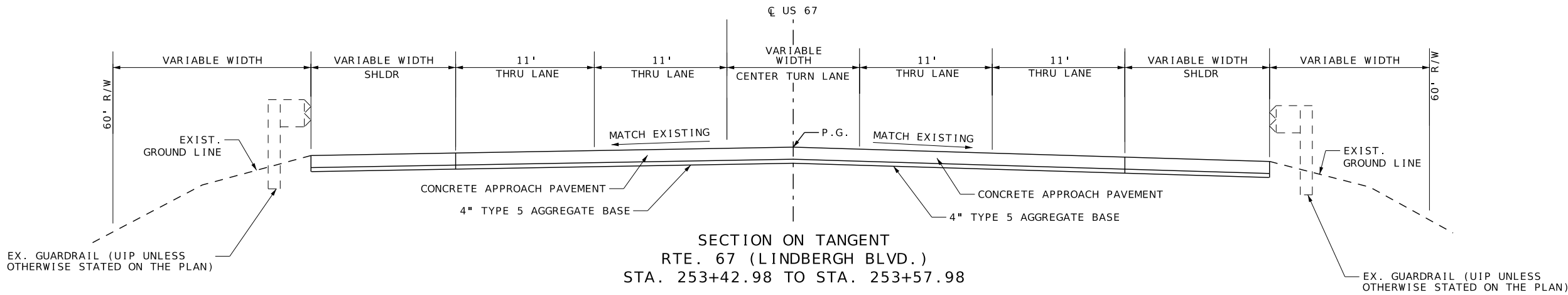
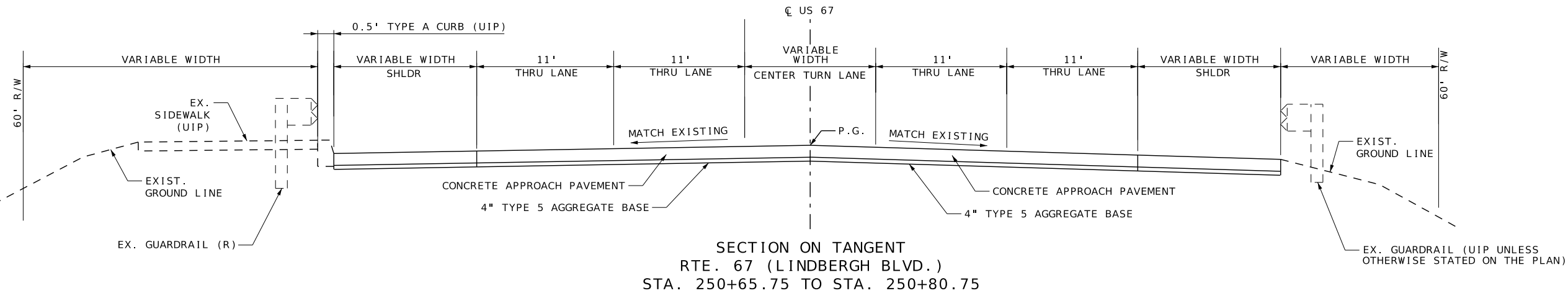
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



TYPICAL SECTIONS
(A1074)
SHEET 2 OF 3
NOT TO SCALE



MO PE-2009030035
DATE PREPARED

9/25/2024

ROUTE 67	STATE MO
-------------	-------------

DISTRICT	SHEET NO.
SL	2

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

**HORNER
SHIFRIN**

THE POWER HOUSE AT UNION STATION

401 S. 18th St., Ste. 400
ST. LOUIS, MO 63103-2296
314-531-4321 FAX: 314-531-6966
www.HornerShifrin.com

Certificate of Authority: 000159
Expiration Date: December 31, 2024

... \002 TS 03 J6S3669 105 A4514.dgn 1:37:53 PM 9/25/2024

REMOVAL OF IMPROVEMENTS								
PLAN SHEET NO.	STATION	STATION	LOC.	ROADWAY	LF	SY	EACH	DESCRIPTION
4-5	113+09	116+40	LT/RT CL	RTE 67		395		CONCRETE MEDIAN STRIP (A1072)
4	113+13		RT CL	RTE 67			1	KEEP RIGHT SIGN (A1072)
4	113+91		RT CL	RTE 67			1	ONE-WAY SIGN (A1072)
5	115+14		LT CL	RTE 67			1	ONE-WAY SIGN (A1072)
5	116+11	117+26	RT CL	RTE 67	114			CURB (A1072)
5	116+36		LT/RT CL	RTE 67			1	KEEP RIGHT SIGN (A1072)
5-6	116+62	120+28	RT CL	RTE 67	332			GUARDRAIL (A1072)
5	116+64		RT CL	RTE 67			1	WEIGHT LIMIT 65 TONS SIGN
5	116+66	117+26	RT CL	RTE 67		33		SIDEWALK (A1072)
5	116+77	117+54	LT CL	RTE 67	84			CURB (A1072)
5	116+78	117+56	LT CL	RTE 67		42		SIDEWALK (A1072)
5	116+93	117+40	LT/RT CL	RTE 67		304		PAVEMENT (A1072)
5-6	116+97	120+59	LT CL	RTE 67	330			GUARDRAIL (A1072)
5-6	119+38	120+37	RT CL	RTE 67	75			CURB & GUTTER (A1072)
6	119+46	120+34	RT CL	RTE 67		28		SIDEWALK (A1072)
5-6	119+51	121+30	LT/RT CL	RTE 67		420		PAVEMENT (A1072)
6	119+64	120+72	LT CL	RTE 67	81			CURB & GUTTER (A1072)
6	120+07	120+20	LT CL	RTE 67	15			12" CULVERT (A1072)
6	120+09	120+71	LT CL	RTE 67		30		SIDEWALK (A1072)
6	120+20		RT CL	RTE 67			1	INLET (A1072)
6	120+20		LT CL	RTE 67			1	INLET (A1072)
6	120+21		LT/RT CL	RTE 67	50			12" CULVERT (A1072)
6	120+80	120+97	RT CL	RTE 67	17			CURB & GUTTER (A1072)
6	121+21	121+39	LT CL	RTE 67		10		SIDEWALK (A1072)
6	121+30	121+37	LT CL	RTE 67	7			CURB & GUTTER (A1072)
7	249+02.78	249+62.91	LT/RT CL	RTE 67		29.8		EX. RAISED CONCRETE ISLAND (A1074)
7	249+04.11		3' RT	RTE 67			1	EX. KEEP RIGHT SIGN + POST (A1074)
7	249+37.10	250+65.90	26' RT	RTE 67		105.4		EX. SHOULDER PAVEMENT (A1074)
7	249+37.10	250+65.90	RT	RTE 67	138.4			SAW CUT (A1074)
7	249+37.10	251+00.90	34' RT	RTE 67		36.5		EX. SHOULDER PAVEMENT (A1074)
7	249+59.63		4' LT	RTE 67			1	EX. KEEP RIGHT SIGN + POST (A1074)
7	250+56.19	251+04.20	37' LT	RTE 67	48			EX. GUARDRAIL (A1074)
7	250+65.90		LT/RT CL	RTE 67	121			SAW CUT (A1074)
7	250+65.90	251+00.90	LT/RT CL	RTE 67		257.7		EX. PAVEMENT (A1074)
7	250+85.33	251+04.33	36' RT	RTE 67	19			EX. GUARDRAIL (A1074)
8	253+18.70	253+33.70	37' LT	RTE 67	15			EX. GUARDRAIL (A1074)
8	253+18.89	253+33.89	36' LT	RTE 67	15			EX. GUARDRAIL (A1074)
8	253+58.23		LT/RT CL	RTE 67	102			SAW CUT (A1074)
8	253+23.23	253+58.23	LT/RT CL	RTE 67		261.1		EX. PAVEMENT (A1074)
8	253+58.23	255+74.93	27.2' LT	RTE 67		206.2		EX. SHOULDER PAVEMENT (A1074)
8	253+58.23	255+74.93	LT	RTE 67	226.1			SAW CUT (A1074)
8	253+23.23	254+78.89	34.5' LT	RTE 67		13.6		EX. SHOULDER PAVEMENT (A1074)
8	253+58.23	255+98.14	26.3' RT	RTE 67		161.0		EX. SHOULDER PAVEMENT (A1074)
8	253+58.23	255+98.14	RT	RTE 67	248.8			SAW CUT (A1074)
8	253+23.23	255+98.14	32.5' RT	RTE 67		76.0		EX. SHOULDER PAVEMENT (A1074)
8	254+61.50	256+65.43	LT/RT CL	RTE 67		158.3		EX. RAISED CONCRETE ISLAND (A1074)
8	254+65.38		1' LT	RTE 67			1	EX. KEEP RIGHT SIGN + POST (A1074)
8	256+62.34		0.5' RT	RTE 67			1	EX. KEEP RIGHT SIGN + POST (A1074)
9	233+03.19	234+85.20	RT	RTE 67		81		TYPE A2 SHOULDER (A4514)
9	233+03.19	234+85.20	RT	RTE 67	182			SAWCUT (A4514)
9	233+03.19	234+87.55	RT	RTE 67		266.5		TEMPORARY OPTIONAL PAVEMENT (A4514)
9	232+93.23	233+61.29	LT	RTE 67	68			SAWCUT (A4514)
9	236+51.68	236+92.99	RT/LT CL	RTE 67		375		EX. PAVEMENT (A4514)
9	238+74.30	239+23.09	RT/LT CL	RTE 67		375		EX. PAVEMENT (A4514)
9	232+52.17	234+42.96	0' RT	RTE 67	191			TYPE A BARRIER (A4514)
9	234+87.53		LT/RT CL	RTE 67	75			SAWCUT (A4514)
9	234+87.53	235+32.57	0' RT	RTE 67	45			TYPE A BARRIER (A4514)
9	237+13.90	237+58.95	0' RT	RTE 67	45			TYPE A BARRIER (A4514)
9		237+58.95	LT/RT CL	RTE 67	75			SAWCUT (A4514)
9	237+84.08	238+86.20	0' RT	RTE 67	102			TYPE A BARRIER (A4514)
9	238+86.20	239+99.32	LT/RT CL	RTE 67	113			GUARDRAIL (A4514)
9	240+00.00	240+25.59	LT/RT CL	RTE 67			6	SURFACE-MOUNT DELINEATOR POSTS (A4514)
9	240+25.59	240+85.09	LT/RT CL	RTE 67		53		CONCRETE MEDIAN (A4514)
PAY TOTAL					1 LUMP SUM			

MOBILIZATION

1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING

1 LUMP SUM

TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING

1 LUMP SUM

MODIFY EXISTING OVERHEAD SIGN TRUSSES

EACH = 5

CONCRETE APPROACH PAVEMENT							
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	AREA	CONCRETE APPROACH PAVEMENT	REMARKS
					SF	SY	
5	116+93.11	117+20.70	CL	RTE 67	1478.8	164.3	ROADWAY APPROACH PAVEMENT (A1072)
6	119+02.69	120+30.28	CL	RTE 67	1454.1	161.6	ROADWAY APPROACH PAVEMENT (A1072)
7	250+65.90	250+80.90	CL	RTE 67	995.1	110.6	ROADWAY APPROACH PAVEMENT (A1074)
8	253+43.23	253+58.23	CL	RTE 67	1008.4	112.0	ROADWAY APPROACH PAVEMENT (A1074)
9	236+51.68	236+72.99	CL	RTE 67	1869.1	207.7	ROADWAY APPROACH PAVEMENT (A4514)
9	238+94.28	239+23.09	CL	RTE 67	1882.3	209.1	ROADWAY APPROACH PAVEMENT (A4514)
SUBTOTAL						965.3	
PAY TOTAL						965.3	

ADJUSTMENTS					
PLAN SHEET NO.	STATION	LOCATION	ROADWAY	PULL BOX	REMARKS
				EACH	
4	113+71	RT	RTE 67	1.0	BRIDGE - A1072
5	116+85	LT	RTE 67	1.0	BRIDGE - A1072
SUBTOTAL				2.0	
PAY TOTAL				2	

OPTIONAL PAVEMENT								
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	AREA	OPTIONAL PAVEMENT	TYPE 5 AGG. BASE (6 IN.)	REMARKS
					SF	SY	SY	
9	233+03.19	234+87.55	RT CL	RTE 67	3123	347.0	347.0	SOUTHBOUND (A4514)
9	238+86.20	240+00.00	RT/LT CL	RTE 67	426.7	47.4	47.4	EXISTING (A4514)
SUBTOTAL						394.4	394.4	
PAY TOTAL						394.4	394	

FULL DEPTH PAVEMENT							
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	AREA	CONCRETE PAVEMENT (9 IN. NON-REINF., 15 FT. JOINTS)	REMARKS
					SF	SY	
7	249+37.10	250+65.90	RT	RTE 67	948.3	105.4	FULL DEPTH PAVEMENT ON SHOULDER (A1074)
8	253+58.23	255+74.93	LT	RTE 67	1855.5	206.2	FULL DEPTH PAVEMENT ON SHOULDER (A1074)
8	253+58.23	255+98.14	RT	RTE 67	1448.7	161.0	FULL DEPTH PAVEMENT ON SHOULDER (A1074)
SUBTOTAL						472.6	
PAY TOTAL						472.6	



09/27/2024 3:49:03 PM
Jason S. Dohrmann
PE-2004017159

DATE PREPARED
9/27/2024

ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
ST. LOUIS


JOB NO.
J6S3669
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)

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS 3, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #200206608



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

TYPE 2 ROCK BLANKET								
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	AREA	PLACING	FURNISHING	REMARKS
						TYPE 2 ROCK BLANKET	TYPE 2 ROCK BLANKET	
					SF	CY	CY	
5	117+45		LT/RT	RTE 67	270	20.0	20.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A1072)
5	119+45		LT/RT	RTE 67	67.5	5.0	5.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A1072)
7	251+07.53	251+61.53	LT/RT	RTE 67	5400.0	400.0	400.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A1074)
8	252+89.60	253+16.60	LT/RT	RTE 67	2700.0	200.0	200.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A1074)
SUBTOTAL						625.0	625.0	
PAY TOTAL						625	625	

INTELLIGENT TRANSPORTATION SYSTEM (ITS)						
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	MODOT ITS ASSET RELOCATION	REMARKS
					LF	
5	117+30.00	119+60.00	LT	RTE 67	230.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A1072)
SUBTOTAL					230.0	
PAY TOTAL					230	

ASPHALT PAVING						
PLAN SHEET NO.	LOCATION	ROADWAY	AREA	ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX)		REMARKS
				TON	TACK COAT GAL	
21	A1072 - STAGE 0	RTE 67	2451	29.0	21.8	ASSUME 2" THICKNESS
32	A1074 - STAGE 0	RTE 67	256	3.0	2.3	ASSUME 2" THICKNESS
34	A1074 - STAGE 1	RTE 67	1390	16.5	12.4	ASSUME 2" THICKNESS
SUBTOTAL				48.5	36.5	
PAY TOTAL				48.5	37	

NOTES:
ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125CLP MIX) = 1.92 TON/CY COMPACTED MIXTURE
TACK COAT ON CONCRETE SURFACE = 0.08 GAL/SY (UNDILUTED)

OPTIONAL RUMBLE STRIPS						
PLAN SHEET NO.	STATION	STATION	LOCATION	ROADWAY	OPTIONAL RUMBLE STRIPS	REMARKS
					STA.	
80	234+82.00	235+75.80	RT	SB RTE 67	1.0	LOCATION TO BE DETERMINED BY THE ENGINEER (A4514)
SUBTOTAL					1.0	
PAY TOTAL					1	

DRAINAGE																	
PLAN SHEET NO.	STATION	LOCATION	ROADWAY	STRUCTURE NO.	STRUCTURE TYPE	GROUP A PIPE	STORM STRUCTURES - INLETS AND MANHOLES						EXCAVATION	REMARKS			
						12 IN. LF	PRECAST CONCRETE DROP INLET 2 FT X 2 FT FT	PRECAST CONCRETE DROP INLET 5 FT X 3 FT FT	PRECAST CONCRETE MANHOLE, 48 IN. FT	CURVED VANE GRATE & FRAME (2 FT X 2 FT) EACH	MANHOLE FRAME AND COVER, TYPE 1-B EACH	MANHOLE FRAME AND COVER, TYPE 3 EACH	CLASS 3 EXCAVATION CY				
6, 84	120+20.66	21.3' LT	RTE. 67	01-02	-	20				10		1		47	BRIDGE - A1072		
6, 84	120+55.00	27' LT	RTE. 67	01-03	T	31			11				1	62	BRIDGE - A1072		
6, 84	121+35.00	28.5' LT	RTE. 67	01-04	D	77	10				1			114	BRIDGE - A1072		
6, 84	120+20.53	27' RT	RTE. 67	02-01	T	47			5				1	44	BRIDGE - A1072		
6, 84	120+85.00	28.5' RT	RTE. 67	02-02	D	61	4				1			40	BRIDGE - A1072		
6, 84	120+96.00	28.5' RT	RTE. 67	02-03	D	9	3				1			10	BRIDGE - A1072		
SUBTOTAL						245.0	17.0		16.0		10.0		3.0	1.0	2.0	317.0	
PAY TOTAL						245	17		16		10		3	1	2	317	

NOTES:
1. CONNECTION TO EXISTING STRUCTURES SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION
2. CLASS 3 EXCAVATION INCLUDES STRUCTURE AND DOWNSTREAM PIPE EXCAVATION
3. TEMPORARY SHORING SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION



11/06/2024 7:57:38 AM
Jason S. Dohrmann
PE-2004017159

DATE PREPARED
11/6/2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 3

COUNTY
ST. LOUIS

JOB NO.
J6S3669

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)

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



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



09/27/2024 3:49:25 PM
Jason S. Dohrmann
PE-2004017159

DATE PREPARED
9/27/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 3
COUNTY ST. LOUIS	

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE						

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



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

TEMPORARY PAVEMENT MARKING																		
PLAN SHEET NO.	LOCATION	ROADWAY																
			TEMPORARY PAVEMENT MARKING PAINT						TEMPORARY REMOVABLE MARKING TAPE						TEMPORARY NON-REMOVABLE MARKING TAPE COMBO STR/LT/RT ARROW EACH	TEMPORARY NON-REMOVABLE MARKING TAPE STRAIGHT ARROW EACH	TEMPORARY NON-REMOVABLE MARKING TAPE LEFT/RIGHT ARROW EACH	REMARKS
			WHITE			YELLOW			WHITE			YELLOW						
			SOLID WHITE LF	SKIP-DASH WHITE (10' / 30') LF	DOTTED WHITE (3' / 9') LF	SOLID YELLOW LF	DOUBLE SOLID YELLOW LF		SOLID WHITE LF	SKIP-DASH WHITE (10' / 30') LF	DOTTED WHITE (3' / 9') LF	SOLID YELLOW LF	DOUBLE SOLID YELLOW LF					
20-21	A1072 - STAGE 0	RTE. 67			41								4					
23	A1072 - STAGE 1	RTE. 67	788			670	88	612				612						
26	A1072 - STAGE 2	RTE. 67	818			800	108	612				612						
34-35	A1074 - STAGE 1	RTE. 67	1094			595	1034	636				636						
37-38	A1074 - STAGE 2	RTE. 67	919	298		1285		636	80			640						
43-47	A4514 - STAGE 1	RTE. 67	296	566	110	2316			111		442					1		
48-52	A4514 - STAGE 2	RTE. 67	3480	347	169	3581		442	56		442		2			3		
53-57	A4514 - STAGE 3	RTE. 67	3200	254	178	3434		442	56		442		2			3		
58-62	A4514 - STAGE 4	RTE. 67	1269	563	110	2388		221	111		442		2			4		
SUBTOTAL			11864.0	2028.0	608.0	15069.0	1230.0	3601.0	414.0	0.0	1768.0	2500.0	6.0	4.0	11.0			
PAY TOTAL			30799					4015			4268		6	4	11			

PERMANENT PAVEMENT MARKINGS													
PLAN SHEET NO.	STATION	STATION	ROADWAY	PREFORMED THERMOPLASTIC PAVEMENT MARKING. 24 IN., WHITE LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING. 24 IN., YELLOW LF	PREFORMED THERMOPLASTIC PAVEMENT MARKING. STRAIGHT ARROW EACH	PREFORMED THERMOPLASTIC PAVEMENT MARKING. LEFT/RIGHT ARROW EACH	PREFORMED THERMOPLASTIC PAVEMENT MARKING. COMBO STR/LT/RT ARROW EACH	6 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT. TYPE L BEADS LF	6 IN. YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT. TYPE L BEADS LF	4 IN. WHITE HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT. TYPE P BEADS LF	4 IN. YELLOW HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT. TYPE L BEADS LF	REMARKS
69			PATTERSON RD					1					STRAIGH/LEFT/RIGHT TURN ARROW (A1072)
69	112+90	114+00	RTE 67	34			4		435			170	BRIDGE - A1072
70	114+00	119+60	RTE 67						1424			1304	BRIDGE - A1072
71	119+60	124+50	RTE 67						1371			1371	BRIDGE - A1072
72	124+50	127+85	RTE 67						1004			654	BRIDGE - A1072
76	247+49.76	252+01.08	RTE 67						451				SOLID WHITE LINE (A1074)
76	247+49.93	252+01.08	RTE 67						113				INTERMITTENT WHITE LINE (A1074)
76	247+52.24	247+54.24	RTE 67	22									SOLID WHITE LINE (A1074)
76	247+52.24	250+10.82	RTE 67									260	SOLID YELLOW LINE (A1074)
76	247+52.24	250+10.82	RTE 67									260	SOLID YELLOW LINE (A1074)
76	247+53.05	249+55.39	RTE 67						203				SOLID WHITE LINE (A1074)
76	247+54.24	248+83.73	RTE 67						130				SOLID WHITE LINE (A1074)
76	247+54.24	248+83.73	RTE 67						128				SOLID WHITE LINE (A1074)
76	247+74.41		RTE 67				1						LEFT TURN ARROW (A1074)
76	248+69.24		RTE 67				1						LEFT TURN ARROW (A1074)
76	248+83.73	252+01.08	RTE 67						80				INTERMITTENT WHITE LINE (A1074)
76	249+79.14	250+10.82	RTE 67						32				SOLID WHITE LINE (A1074)
76	249+93.89		RTE 67				1						LEFT TURN ARROW (A1074)
76	250+34.00	252+01.08	RTE 67									167	SOLID YELLOW LINE (A1074)
76	250+34.00	252+01.08	RTE 67									167	SOLID YELLOW LINE (A1074)
76	250+63.29	252+01.08	RTE 67						138				SOLID WHITE LINE (A1074)
77	252+01.08	256+99.99	RTE 67						501				SOLID WHITE LINE (A1074)
77	252+01.08	256+99.99	RTE 67						125				INTERMITTENT WHITE LINE (A1074)
77	252+01.08	256+99.99	RTE 67									500	SOLID YELLOW LINE (A1074)
77	252+01.08	256+99.99	RTE 67									500	SOLID YELLOW LINE (A1074)
77	252+01.08	256+99.99	RTE 67						125				INTERMITTENT WHITE LINE (A1074)
77	252+01.08	256+99.99	RTE 67						500				SOLID WHITE LINE (A1074)
77	256+67.94	256+99.99	RTE 67									8	INTERMITTENT YELLOW LINE (A1074)
77	256+67.94	256+99.99	RTE 67									8	INTERMITTENT YELLOW LINE (A1074)
78	256+99.99	261+99.99	RTE 67						505				SOLID WHITE LINE (A1074)
78	256+99.99	261+99.99	RTE 67						126				INTERMITTENT WHITE LINE (A1074)
78	256+99.99	261+99.99	RTE 67									501	SOLID YELLOW LINE (A1074)
78	256+99.99	261+99.99	RTE 67									125	INTERMITTENT YELLOW LINE (A1074)
78	256+99.99	261+99.99	RTE 67									125	INTERMITTENT YELLOW LINE (A1074)
78	256+99.99	261+99.99	RTE 67									499	SOLID YELLOW LINE (A1074)
78	256+99.99	261+99.99	RTE 67						124				INTERMITTENT WHITE LINE (A1074)
78	256+99.99	257+35.32	RTE 67						35				SOLID WHITE LINE (A1074)
78	258+03.32		RTE 67				1						LEFT TURN ARROW (A1074)
78	258+13.71	261+99.99	RTE 67						383				SOLID WHITE LINE (A1074)
78	258+25.80		RTE 67				1						LEFT TURN ARROW (A1074)
78	261+04.31		RTE 67				1						LEFT TURN ARROW (A1074)
78	261+25.76		RTE 67				1						LEFT TURN ARROW (A1074)
79	261+99.99	263+25.91	RTE 67						127				SOLID WHITE LINE (A1074)
79	261+99.99	264+06.93	RTE 67						52				INTERMITTENT WHITE LINE (A1074)
79	261+99.99	264+06.93	RTE 67									207	SOLID YELLOW LINE (A1074)
79	261+99.99	264+06.93	RTE 67									52	INTERMITTENT YELLOW LINE (A1074)
79	261+99.99	264+06.93	RTE 67									52	INTERMITTENT YELLOW LINE (A1074)
79	261+99.99	264+06.93	RTE 67									207	SOLID YELLOW LINE (A1074)
79	261+99.99	264+06.93	RTE 67						52				INTERMITTENT WHITE LINE (A1074)
79	261+99.99	264+06.93	RTE 67						205				SOLID WHITE LINE (A1074)
80-81	231+00	248+00	RTE 67		48				1569	1452			SOUTHBOUND RTE. 67 (A4514)
80-81	227+00	242+00	RTE 67			1			2421	1158			NORTHBOUND RTE. 67 (A4514)
80			TAYLOR RD					1			143		(A4514)
80			RTE. 67 RAMP 1						214				NORTHBOUND (A4514)
80			RTE. 67 EXIT 1						123	75			NORTHBOUND (A4514)
80			RTE. 67 EXIT 2				3		225				NORTHBOUND (A4514)
80			OLD DUNN RD				2						(A4514)
81			RTE. 67 RAMP						215				SOUTHBOUND (A4514)
SUBTOTAL				56.0	48.0	1.0	16.0	2.0	13136.0	2685.0	143.0	7137.0	
PAY TOTAL				56	48	1	16	2	13136	2685	143	7137	

STATE OF MISSOURI

JASON S. DOHRMANN

PE-2004017159

PROFESSIONAL ENGINEER

09/27/2024 3:50:27 PM

Jason S. Dohrmann

PE-2004017159

DATE PREPARED

9/27/2024

ROUTE

67

DISTRICT

SL

STATE

MO

SHEET NO.

3

COUNTY

ST. LOUIS

JOB NO.

J6S3669

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)

HR GREEN, INC.

520 MARYVILLE CENTRE DRIVE.

SUITE 100

ST. LOUIS, MISSOURI 63141

PHONE: (636) 519-0990

CORPORATE LICENSE #2002006608

HRGreen

HRGreen

SUMMARY OF QUANTITIES
SHEET 6 OF 7

SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	QTY RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NUM.	
WARNING SIGNS								DESCRIPTION
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	3	48	1	16	15A	REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00	3	48	2	32	15B	REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00	2	32			32B	DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00	2	32			32A	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	4	50	1	12.5	16	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	3	48			6A	MERGE (LEFT)
WO4-1aR	48X48	16.00	1	16			6B	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						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)
WO10-1	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	24	384	3	48	2	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	2	32			18	DETOUR AHEAD
WO20-3	48X48	16.00	2	32				ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	6	96	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.	
GUIDE SIGNS								DESCRIPTION
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	3	24			26	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	8	48	3	18	54	WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	6	18			52	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	1	6			17	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	1	12	4A	SPEED LIMIT 30
R2-1	36X48	12.00	2	24	2	24	4B	SPEED LIMIT 35
R2-1	36X48	12.00	5	60			25A	SPEED LIMIT 40
R2-1	36X48	12.00	2	24			25B	SPEED LIMIT 45
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	9	144	4	64	57	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
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
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	1	6.75			55	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	3	6	2	4	53	SIDEWALK CLOSED
R9-11L	24X18	3.00	1	3	1	3	56A	SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00	1	3	1	3	56B	SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	12	120	1	10	29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
MISCELLANEOUS SIGNS								
CONST-5	96X48	32.00	4	128			98	POINT OF PRESENCE
CONST-8	48X36	12.00	4	48			99	WORK ZONE NO PHONE ZONE
WO4-2L	48X48	16.00	2	32	1	16	19	LANE ENDS
MO4-9aL	30X24	5.00	6	30			52A	PED/BICYCLE DETOUR LEFT
MO4-9aR	30X24	5.00	5	25			52B	PED/BICYCLE DETOUR RIGHT
SPECIAL	30X24	5.00	7	35			52C	PED/BICYCLE DETOUR STRAIGHT
SPECIAL	24X18	3.00	2	6			52D	TRAIL CLOSED
SPECIAL	30X36	7.50	3	22.5			56	RIGHT TURN ONLY
SPECIAL	30X36	7.50	1	7.5			58	LEFT TURN ONLY
R3-33	78X36	19.50	2	39			59	RIGHT (LEFT) LANE MUST EXIT
SPECIAL	42X42	12.25	5	61.25			60A	TAYLOR RD DETOUR
SPECIAL	42X42	12.25	1	12.25			60B	TAYLOR RD DETOUR
SPECIAL	42X36	10.50	1	10.5			60C	TAYLOR RD DETOUR
SPECIAL	42X42	12.25	1	12.25			60D	TAYLOR RD DETOUR
SPECIAL	42X36	10.50	1	10.5			60E	TAYLOR RD DETOUR
SPECIAL	78X36	19.50	12	234			S1	61A-61E
SPECIAL	60X42	17.50	4	70			62A	LYNN HAVEN LN DETOUR
SPECIAL	60X42	17.50	1	17.5			62B	LYNN HAVEN LN DETOUR
SPECIAL	60X36	15.00	1	15			62C	LYNN HAVEN LN DETOUR
SPECIAL	60X42	17.50	1	17.5			62D	LYNN HAVEN LN DETOUR
SPECIAL	60X36	15.00	1	15			62E	LYNN HAVEN LN DETOUR
SPECIAL	60X42	17.50	1	17.5			62F	LYNN HAVEN LN DETOUR
SPECIAL	133X36	35.75	1	35.75			63	OVERHEAD U.S. NORTH 67
SPECIAL	60X42	28.50	1	28.5			64	OVERHEAD U.S. NORTH 67
616-10.05 CONSTRUCTION SIGNS				TOTAL 2340				* NO DIRECT PAY WILL BE MADE FOR SIGNING OR DEVICES. ** NOT INCLUDED IN LUMP SUM TRAFFIC
616-10.10 RELOCATED SIGNS					TOTAL *			

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008	5**	IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009	2**	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	7**	REPLACEMENT SAND BARREL
6122030	9**	IMPACT ATTENUATOR (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008	8	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	435	CHANNELIZER (TRIM LINE)
6161030	50	TYPE III MOVEABLE BARRICADE
6161033	72	DIRECTION INDICATOR BARRICADE
6161040	5	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070	53	TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	8**	CHANGEABLE MESSAGE SIGN W/O 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	5294**	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6173700B	1012**	TEMPORARY TRAFFIC BARRIER ANCHORED CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A	1681**	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
6122040	1	WORK ZONE CRASH CUSHION (NARROW)
6122041	1	WORK ZONE CRASH CUSHION (RELOCATION)

NOTES:

1. ALL SIGNS, VERTICAL PANELS, BARRICADES AND OTHER MATERIALS/DEVICES NECESSARY FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION ARE INCLUDED IN PAY ITEM 616-99.01, TEMPORARY TRAFFIC CONTROL, LUMP SUM. THE QUANTITIES SHOWN ARE AN ESTIMATE ONLY AND SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. OTHER ITEMS AS NOTED IN THE PLANS, INCLUDING CHANGEABLE MESSAGE BOARDS, TEMPORARY CONCRETE BARRIER, TEMPORARY PAVING AND TEMPORARY STRIPING, HAVE BEEN QUANTIFIED SEPERATELY AND WILL BE PAID FOR AS STANDARD PAY ITEMS.
2. TEMPORARY TRAFFIC CONTROL SHOULD FOLLOW MODOT/MUTCD STANDARDS.
3. NO DIRECT PAYMENT TO COVER/UNCOVER EXISTING SIGNS OR TRAFFIC SIGNS
4. SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
5. CMS LOCATIONS TO BE DETERMINED BY THE ENGINEER.

TEMPORARY TRAFFIC CONTROL
1 LUMP SUM

* NO DIRECT PAY WILL BE MADE FOR RELOCATION OF CONSTRUCTION
SIGNING OR DEVICES.
** NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL.

SUMMARY OF QUANTITIES
SHEET 7 OF 7



09/30/2024 9:34:26 A
Jason S. Dohrmann
PE-2004017159

DATE PREPARED
9/30/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 3

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

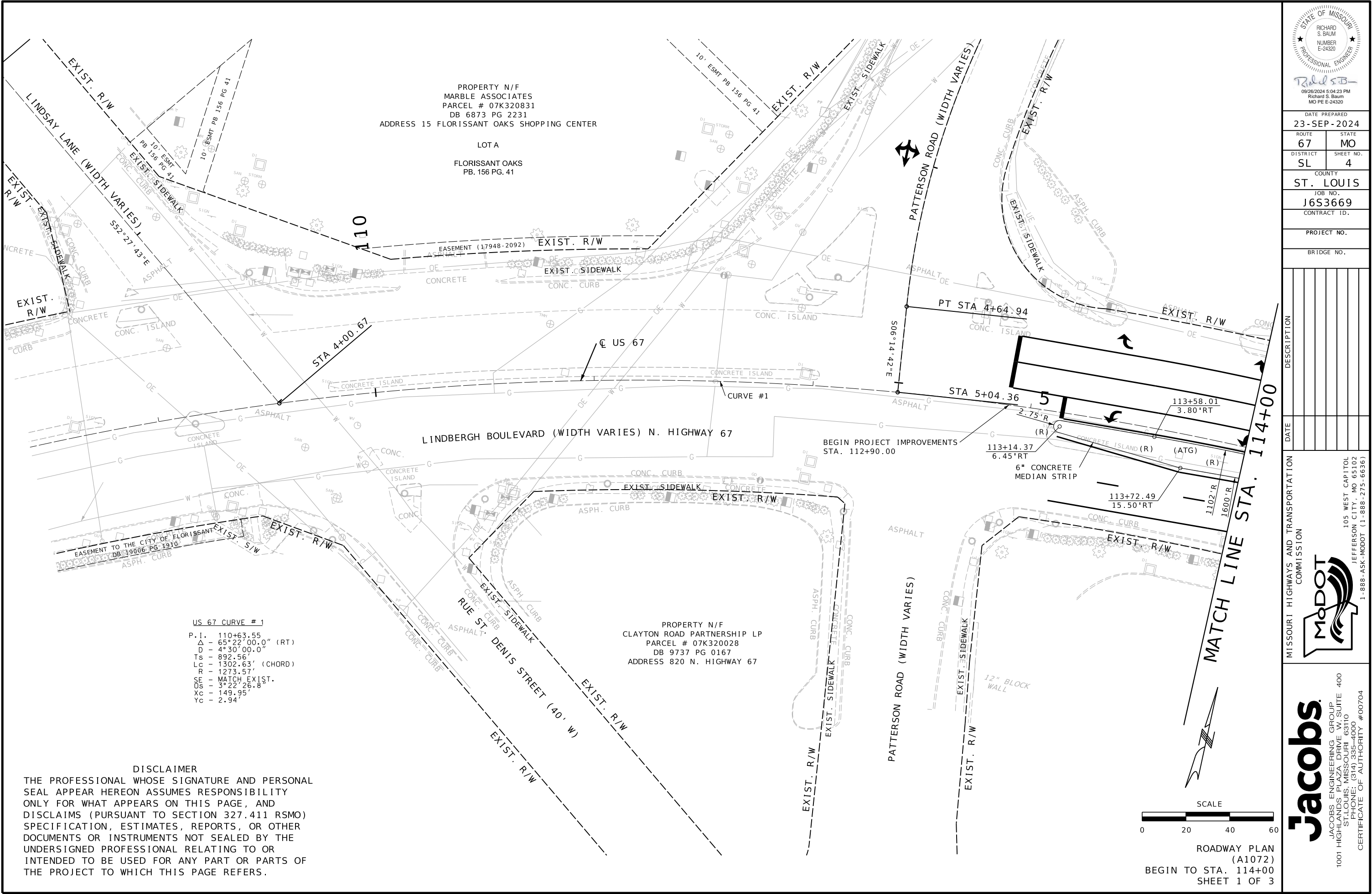
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519.0990
CORPORATE LICENSE #2002006608




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

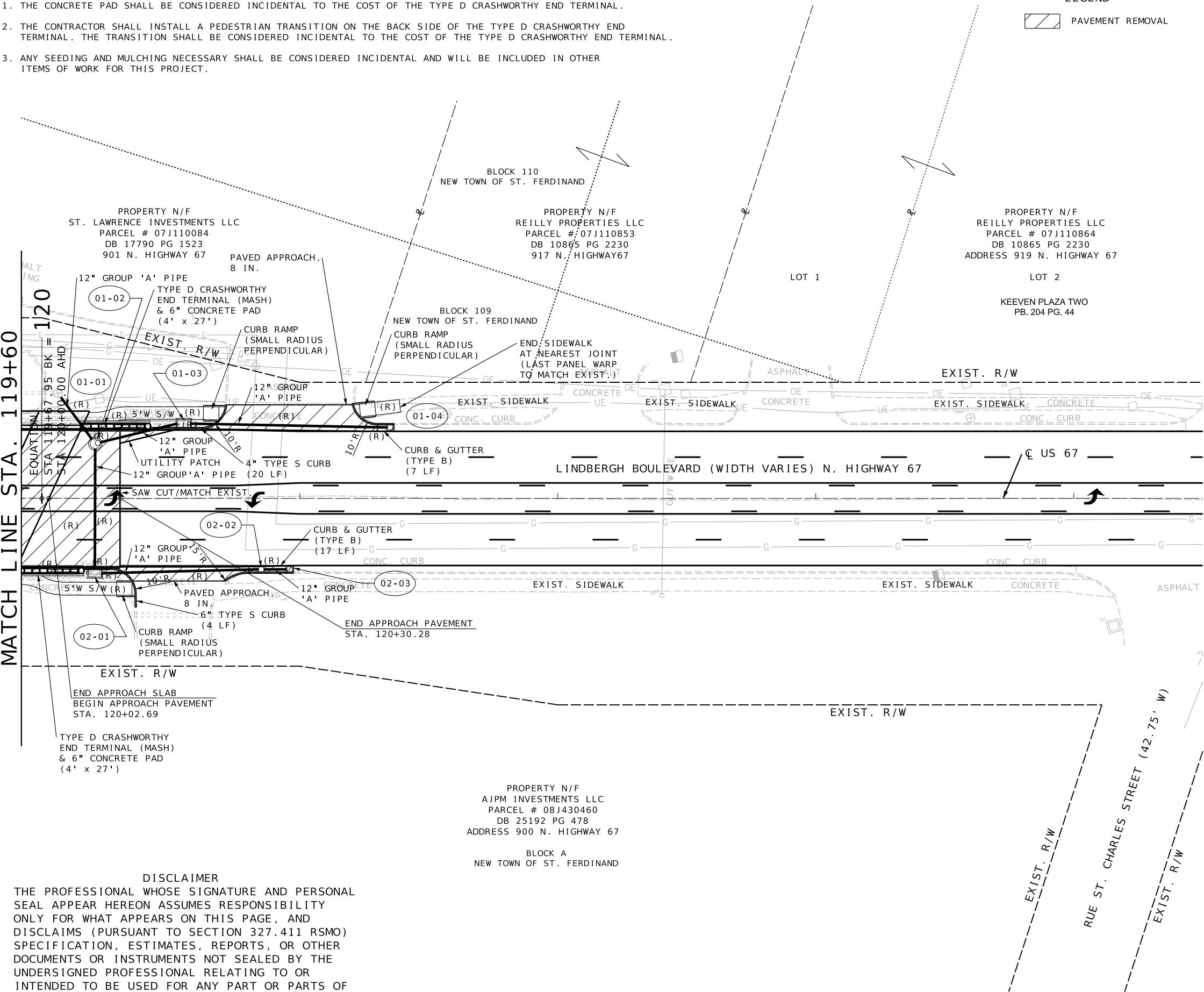


NOTES;

1. THE CONCRETE PAD SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE TYPE D CRASHWORTHY END TERMINAL.
2. THE CONTRACTOR SHALL INSTALL A PEDESTRIAN TRANSITION ON THE BACK SIDE OF THE TYPE D CRASHWORTHY END TERMINAL. THE TRANSITION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE TYPE D CRASHWORTHY END TERMINAL.
3. ANY SEEDING AND MULCHING NECESSARY SHALL BE CONSIDERED INCIDENTAL AND WILL BE INCLUDED IN OTHER ITEMS OF WORK FOR THIS PROJECT.

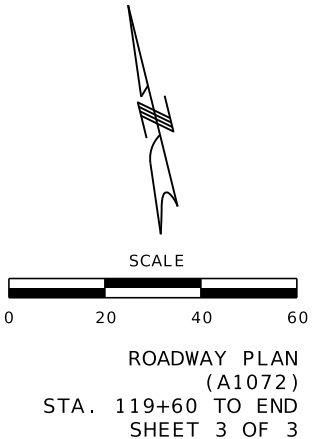
LEGEND

 PAVEMENT REMOVAL



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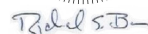


STATE OF MISSOURI

RICHARD S. BAUM

NUMBER E-24320

PROFESSIONAL ENGINEER



09/26/2024 5:04:23 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
23-SEP-2024

ROUTE 67

DISTRICT SL

STATE MO

SHEET NO. 6

COUNTY
ST. LOUIS

JOB NO.
J6S3669


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)



JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 350-0000
CERTIFICATE OF AUTHORITY #00704

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

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PROPERTY N/F
MERCY HEALTH EAST COMMUNITIES
PARCEL # 06H220222
DB 22220 PG 1730
ADDRESS 3555 N. HIGHWAY 67

1	STA. 253+23.23, OFF. 4.19' LT. - CONCRETE MEDIAN
2	STA. 253+23.23 - END BRIDGE WORK BEGIN BRIDGE APPROACH SLAB
3	STA. 253+23.23, OFF. 3.08' RT. - CONCRETE MEDIAN



Riley Hoffman
09/27/2024 10:28:00 AM
Riley J. Hoffman
MO PE-2022042958

DATE PREPARED	
9/27/2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO
SL	8

COUNTY	ST. LOUIS
JOB NO.	J6S3669
CONTRACT ID.	

PROJECT NO

BRIDGE NO. _____

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

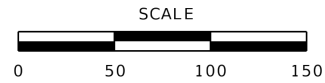
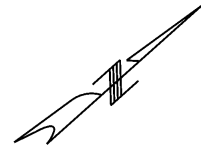
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002008608



ROADWAY PLAN
(A1074)
SHEET 2 OF 2

\\hrgreen.com\hrg\Data\2021\211826.05\CAD\Roadway\Bridge Special Sheet\008 PL 02OF02 J6S3669 I20.dgn 7:49:15 AM 9/27/2024



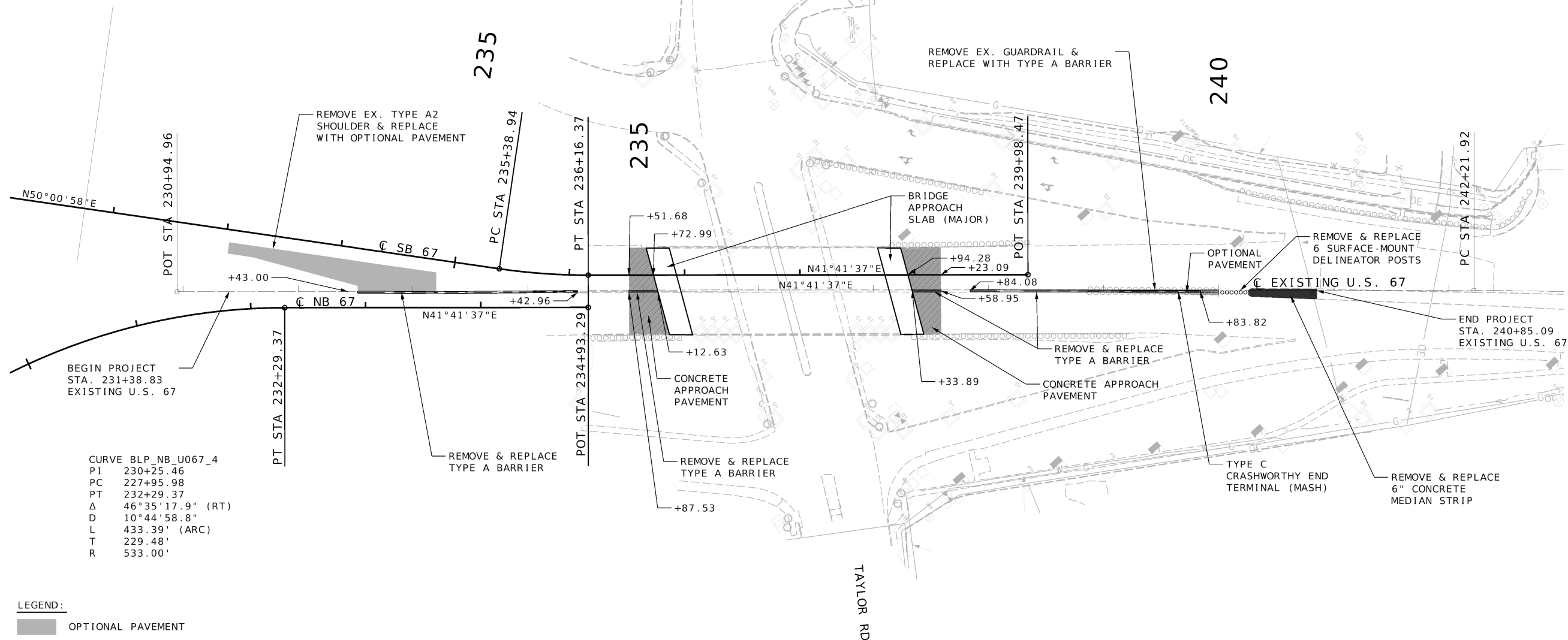
CURVE BLP_SB_U067_5
PI 235+77.72
PC 235+38.94
PT 236+16.37
 Δ 8°19'21.7" (LT)
D 10°44'58.8"
L 77.42' (ARC)
T 38.78'
R 533.00'

LYNN HAVEN LANE

240

235

235



CURVE BLP_NB_U067_4
PI 230+25.46
PC 227+95.98
PT 232+29.37
 Δ 46°35'17.9" (RT)
D 10°44'58.8"
L 433.39' (ARC)
T 229.48'
R 533.00'

LEGEND:

- OPTIONAL PAVEMENT
- 6" CONCRETE MEDIAN STRIP
- CONCRETE APPROACH PAVEMENT

NOTES:

- ALL BEARINGS BASED ON MODIFIED MISSOURI PLANE COORDINATES EASTERN ZONE.
- SEEDING AND MULCHING IS CONSIDERED INCIDENTAL; AND WILL BE INCLUDED IN OTHER ITEMS FOR THIS PROJECT.
- REMOVE AND REPLACE EXISTING GUIDE SIGN ON BRIDGE OVER EB LYNN HAVEN LANE WITH NEW SIGN. NEW SIGN SHALL BE PLACED ON EXISTING BRACKETS ON BRIDGE.

BRIDGE A4514
PLAN
SHEET 1 OF 1



DATE PREPARED
9/26/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 9

COUNTY ST. LOUIS

JOB NO. J6S3669

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)

MoDOT

THE POWER HOUSE AT UNION STATION

ST. LOUIS, MO 63103-2296

314-531-4321 FAX: 314-531-6866

www.HornerShifrin.com

Certificate of Authority: 000199

Expiration Date: December 31, 2024

Horner Shifrin

THE POWER HOUSE AT UNION STATION

ST. LOUIS, MO 63103-2296

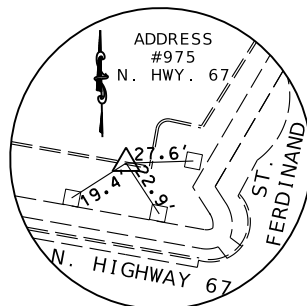
314-531-4321 FAX: 314-531-6866

www.HornerShifrin.com

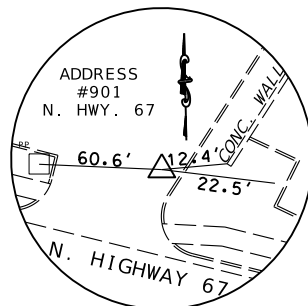
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Expiration Date: December 31, 2024

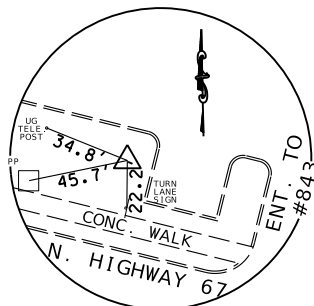
Horner Shifrin



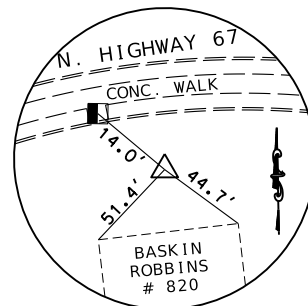
CONTROL POINT NO.466
CUT CROSS
N: 1080079.585
E: 869175.162
ELEV: 520.76
STA. 127+51.09
54.69' LT HWY. 67



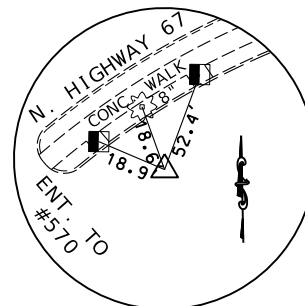
CONTROL POINT NO.467
SET MAG SPIKE
N: 1080256.412
E: 868483.858
ELEV: 521.50
STA. 121+28.21
61.31' LT HWY. 67



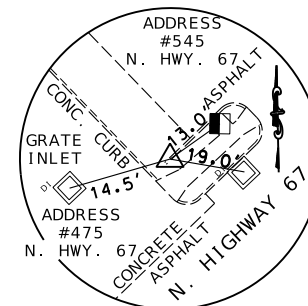
CONTROL POINT NO.468
SET IRON ROD W/CAP
N: 1080376.408
E: 867990.123
ELEV: 508.79
STA. 115+93.32
65.24' LT HWY. 67



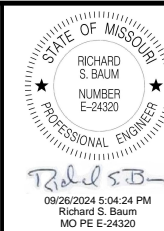
CONTROL POINT NO.469
SET MAG SPIKE
N: 1080249.181
E: 867549.414
ELEV: 510.00
STA. 111+50.00
56.92' RT HWY. 67



CONTROL POINT NO.470
SET MAG SPIKE
N: 1080093.306
E: 867156.189
ELEV: 511.02
STA. 107+04.11
62.44' RT HWY. 67



CONTROL POINT NO. 471
CUT CROSS
N: 1079621.205
E: 866539.576
ELEV: 512.96
STA. 99+19.28
48.74' LT HWY. 67



DATE PREPARED
23-SEP-2024

ROUTE	STATE
67	MO

DISTRICT	SHEET NO.
SL	10

COUNTY
ST. LOUIS

JOB NO.
1653669

7055005
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Jacobs.
JACOBS ENGINEERING GROUP
10001 HIGHLANDS PLAZA DRIVE W. SUITE 200
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #0070

REFERENCE POINTS
(A1072)

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

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING				
POINT	STATION	OFFSET	MODIFIED STATE PLANE (GROUND)	
		(FEET)	NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
CENTERLINE ROUTE 67				
TS	101+70.99	0	1079788.0251	866734.2624
SC	103+20.99	0	1079903.6280	866829.8084
PI	110+63.55	0	1080487.0412	867289.2724
CS	116+23.62	0	1080306.8464	868009.6945
ST	117+73.62	0	1080273.8972	868156.0072
POT BK.	119+67.95	0	1080227.4915	868344.7131
POT AHD.	120+00.00	0	1080227.4915	868344.7131
POT BK.	124+97.76	0	1080108.6257	868828.0721
POT AHD.	124+07.11	0	1080108.6257	868828.0721

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

COORDINATE POINT SHEET
(A1072)

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 MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

COORDINATE SYSTEM	MODIFIED STATE PLANE	
HORIZONTAL DATUM	NAD 83 (2011)	
VERTICAL DATUM	NAVD 88	
GEOID MODEL	GEOID18	
ELEVATIONS FROM	ST. LOUIS COUNTY BENCHMARK 5-301	
DETERMINED BY	DIFFERENTIAL LEVELING	
PROJECT PROJECTION FACTOR	1.00008780	

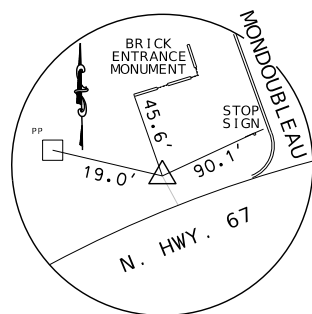
COORDINATE SYSTEM		MISSOURI COORDINATE SYSTEM OF 1983	
CONTROL STATION		MISSOURI CORS	
DESIGNATION	MODOT BELLEFONT CORS ARP		
CORS_ID	MOBL		
PID	DM3511		
LATITUDE	38°45'53.88149" (N)		
LONGITUDE	090°14'43.15784" (W)		
NORTHING (M)	325,371.567		
EASTING (M)	272,133.214		
ZONE	EAST		
PROJECT AVERAGE	GRID FACTOR	0.99991220	

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

EXAMPLE: CONTROL POINT #1
N 1086867.827 X 0.9999122 = N 1086772.4000
E 897252.572 X 0.9999122 = E 897173.7932
```

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING								
CONTROL POINT NO.	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)				GPK POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
DESCRIPTION								
PROJECT CONTROL POINTS								
443	262+72.79	LEFT	39.29	1085724.4040	880771.8170	516.05	BASED OFF RTE. 67 CENTERLINE.	
444	259+14.59	LEFT	40.90	1085578.5240	880440.1410	501.99	BASED OFF RTE. 67 CENTERLINE.	
445	250+36.06	LEFT	50.42	1085119.9150	879684.5860	497.48	BASED OFF RTE. 67 CENTERLINE.	
446	245+11.95	LEFT	50.71	1084836.4710	879243.7340	505.85	BASED OFF RTE. 67 CENTERLINE.	
447	240+10.42	LEFT	53.41	1084567.2700	878820.5630	541.17	BASED OFF RTE. 67 CENTERLINE.	

[illegible]

CONTROL POINT NO.447
SET IRON ROD W/CAP
N: 1084567.270
E: 878820.563
ELEV: 541.17
STA. 240+10.42
53.41' LT HWY. 67



DATE PREPARED
9/27/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO 12

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

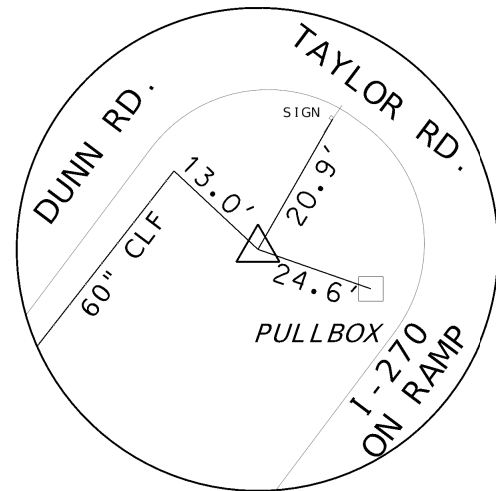
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



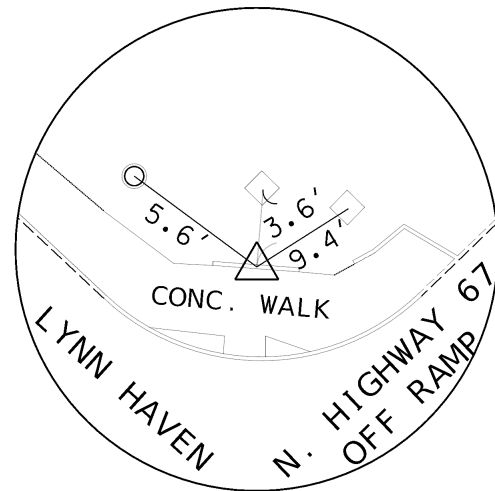
105 WEST CAPITAL
JEFFERSON CITY, MO 65102

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519.0390
CORPORATE LICENSE #2002006608

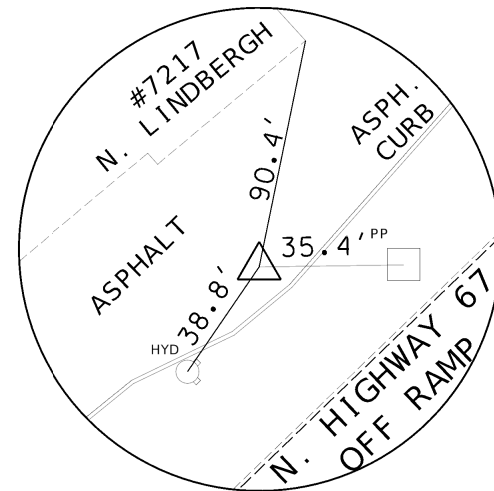




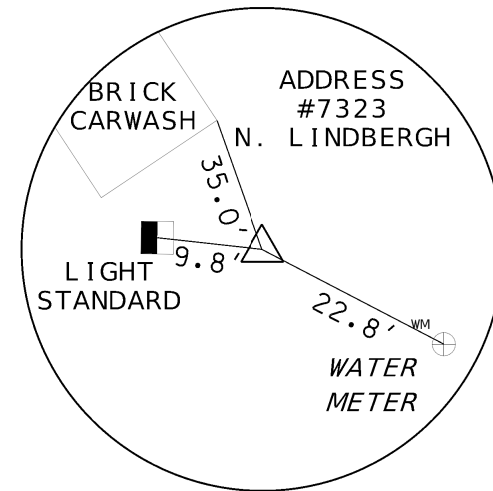
CONTROL POINT NO.29
SET IRON ROD W/CAP
N: 1073791.287
E: 860698.382
ELEV: 523.84
U.S. 67 STA. 234+83.97
218.96' LT



CONTROL POINT NO.485
CUT CROSS
N: 1073881.757
E: 860810.507
ELEV: 525.45
U.S. 67 STA. 236+26.10
195.41' LT



CONTROL POINT NO.484
SET MAG SPIKE
N: 1074124.845
E: 861125.390
ELEV: 520.44
U.S. 67 STA. 240+17.06
121.97' LT



CONTROL POINT NO.28
SET IRON ROD W/CAP
N: 1074454.379
E: 861482.287
ELEV: 522.20
U.S. 67 STA. 244+90.49
91.00' LT

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PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
PROJECT PROJECTION FACTOR	1.0000878
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
ZONE	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 #485	
N 1073881.757 X 0.99991221 = N 1073787.481	
E 860810.507 X 0.99991221 = E 860734.936	

COORDINATE POINT LISTING					
SHEET	STATION	LOCATION	MODIFIED STATE PLANE (GROUND)		DESCRIPTION
			NORTHING	EASTING	
			(FEET)	(FEET)	
	227+95.98	NB 67	1073015.56	860542.62	PC STA.NB67 CURVE 1
4	230+25.46	NB 67	1073244.20	860523.04	PI STA.NB67 CURVE 1
4	232+29.37	NB 67	1073415.56	860675.68	PT STA. NB67 CURVE 1
4	235+38.95	SB 67	1073577.38	860774.81	PC STA. SB67 CURVE 1
4	235+77.72	SB 67	1073602.30	860804.52	PI STA. SB67 CURVE 1
4	236+16.37	SB 67	1073631.25	860830.31	PT STA. SB67 CURVE 1
4	230+94.96	EXISTING U.S. 67	1073358.93	860606.49	POT STA. - EXISTING U.S 67
4	231+38.83	EXISTING U.S. 67	1073387.93	860632.32	BEGIN CONSTRUCTION -EXISTING U.S. 67
4	240+85.09	EXISTING U.S. 67	1074094.51	861261.72	END CONSTRUCTION -EXISTING U.S. 67
4	242+21.92	EXISTING U.S. 67	1074180.32	861338.15	POT STA. - EXISTING U.S. 67

BRIDGE A4514
COORDINATE POINTS AND
REFERENCE POINTS
SHEET 1 OF 1



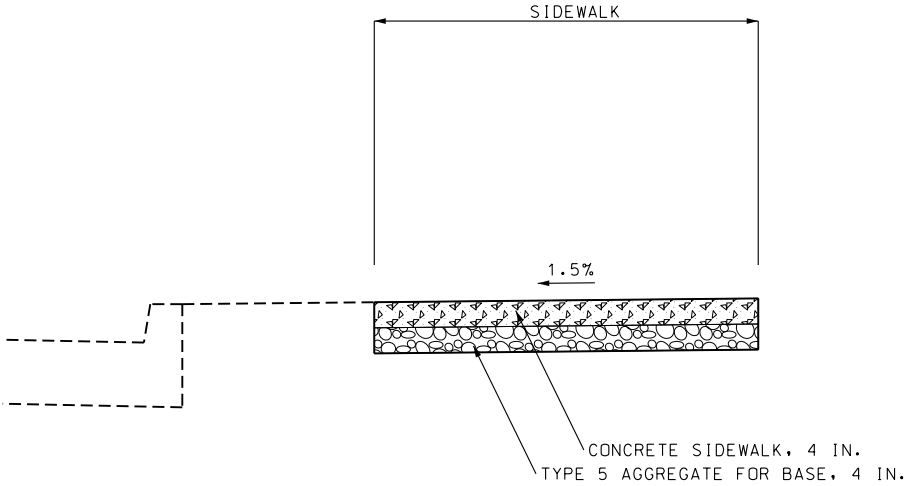
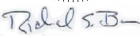


DATE PREPARED 9/25/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 13
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

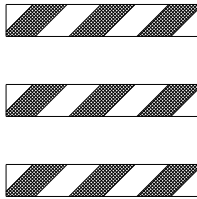
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornorShifrin.com
Certificate of Authority: 000199
Expiration Date: December 31, 2024

<div>DISCLAIMER</div> <div>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.</div>	<div>NOTES:</div> <div><div>1. SEE STANDARD DRAWING 608.10 "CONCRETE SIDEWALK" FOR ADDITIONAL INFORMATION.</div><div>2. ALL SIDEWALKS TO BE CONSTRUCTED SHALL HAVE 4 IN. OF TYPE 5 AGGREGATE FOR BASE.</div><div>3. ANY EARTHWORK REQUIRED TO PLACE THE CONCRETE SIDEWALK AND AGGREGATE BASE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE TYPE 5 AGGREGATE FOR BASE (4 IN. THICK).</div></div> <div><p>SIDEWALK</p><p>1.5%</p><p>CONCRETE SIDEWALK, 4 IN. TYPE 5 AGGREGATE FOR BASE, 4 IN.</p><p><u>SIDEWALK DETAIL</u></p></div>	<div><div><div><div>STATE OF MISSOURI</div><div><div>RICHARD S. BAUM</div><div>NUMBER E-24320</div></div><div>PROFESSIONAL ENGINEER</div></div><div><div>09/26/2024 5:04:24 PM Richard S. Baum MO PE E-24320</div></div></div><div>DATE PREPARED 23-SEP-2024</div><div><div>ROUTE 67</div><div>STATE MO</div></div><div><div>DISTRICT SL</div><div>SHEET NO. 14</div></div><div>COUNTY ST. LOUIS</div><div>JOB NO. J6S3669</div><div>CONTRACT ID.</div><div>PROJECT NO.</div><div>BRIDGE NO.</div><table><thead><tr><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table></div>	DATE	DESCRIPTION														
DATE	DESCRIPTION																	
	<div><div><div>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</div><div><div>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-273-6636)</div></div></div><div><div><div>JACOBS ENGINEERING GROUP 1001 HIGHLANDS PLAZA DRIVE W, SUITE 400 ST. LOUIS, MISSOURI 63110 PHONE: (314) 354-0000 FAX: (314) 354-0001 CERTIFICATE OF AUTHORITY #00704</div></div></div></div> <div><div>SPECIAL SHEET (A1072) SIDEWALK DETAIL SHEET 1 OF 1</div></div>																	

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



WO20-1
(2)



R2-1
(4A)



R2-1
(4B)



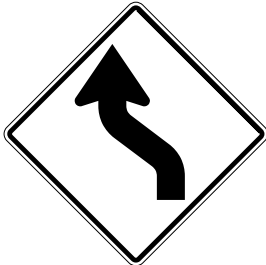
WO20-5
(5)



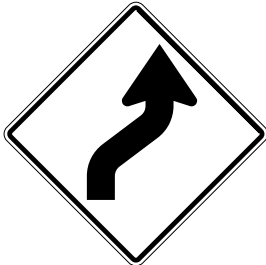
WO20-6a
(6)



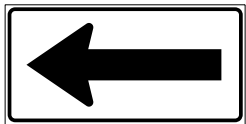
WO4-1aL
(6A)



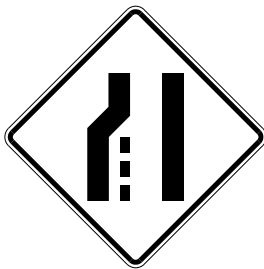
WO1-4L
(15A)



WO1-4R
(15B)



WO1-6
(16)



W4-2L
(19)



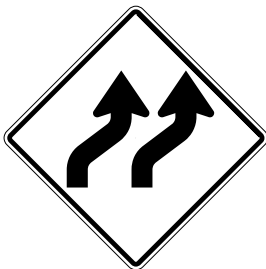
R2-1
(25A)



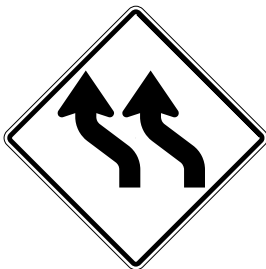
R2-1
(25B)



R11-2
(29)



WO1-4bR
(32A)



WO1-4bL
(32B)



R9-9
(53)



R3-2
(57)



GO20-5aP
(54)



R9-11L
(56A)



R9-11R
(56B)

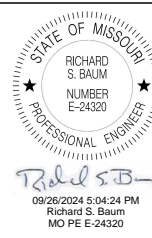
GENERAL NOTES:

- ALL SIGNING AND ANY REQUIRED TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SIGN LOCATIONS TO BE APPROVED BY THE ENGINEER.
- CMS LOCATIONS AND MESSAGES TO BE DETERMINED BY THE ENGINEER.
- DISTANCES MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WITH PERMISSION OF THE ENGINEER.
- ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
- ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
- MAINTAIN ACCESS TO DRIVEWAYS AND ENTRANCES AT ALL TIMES UNLESS NOTED ON THE PLANS. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES AT ALL TIMES.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS AND DEVICES.
- TCP ITEMS SHOWN ON PLANS ARE NOT TO SCALE. USE DIMENSIONS.
- ADVANCED WARNING RAIL SYSTEM (AWRS) TO BE INSTALLED WITH W02-1 ROAD WORK AHEAD SIGNS WHERE SIGNS ARE LOCATED ON MAINLINE US 67.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- TUBULAR MARKER
- TYPE 3 BARRICADE
- FLASHING ARROW PANEL
- WORK AREA

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DATE PREPARED
25-SEP-2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 15

COUNTY
ST. LOUIS
JOB NO.
J6S3669
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

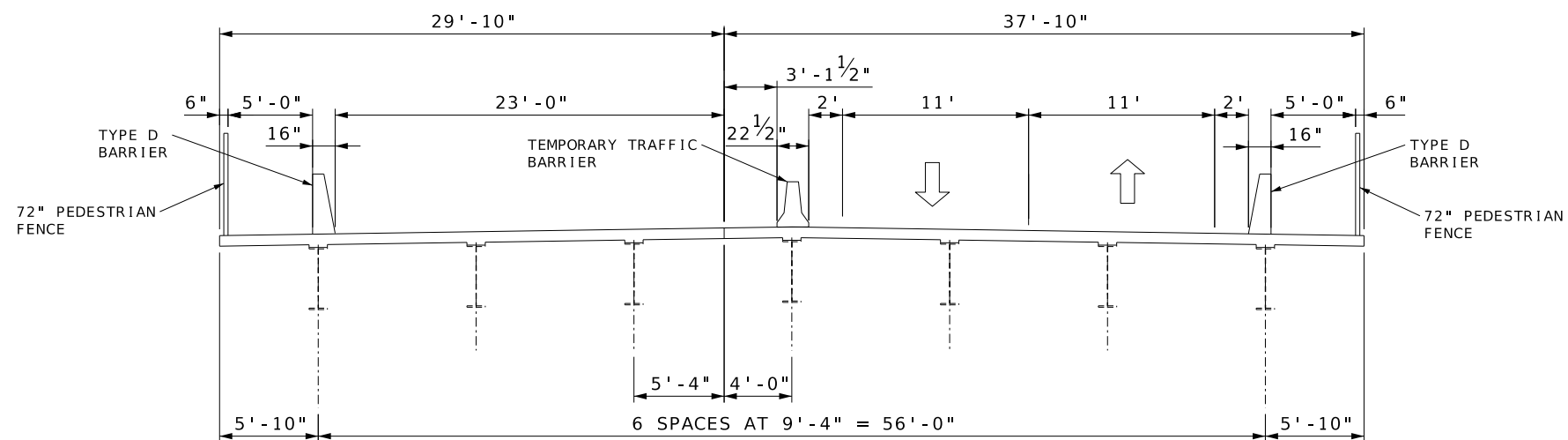
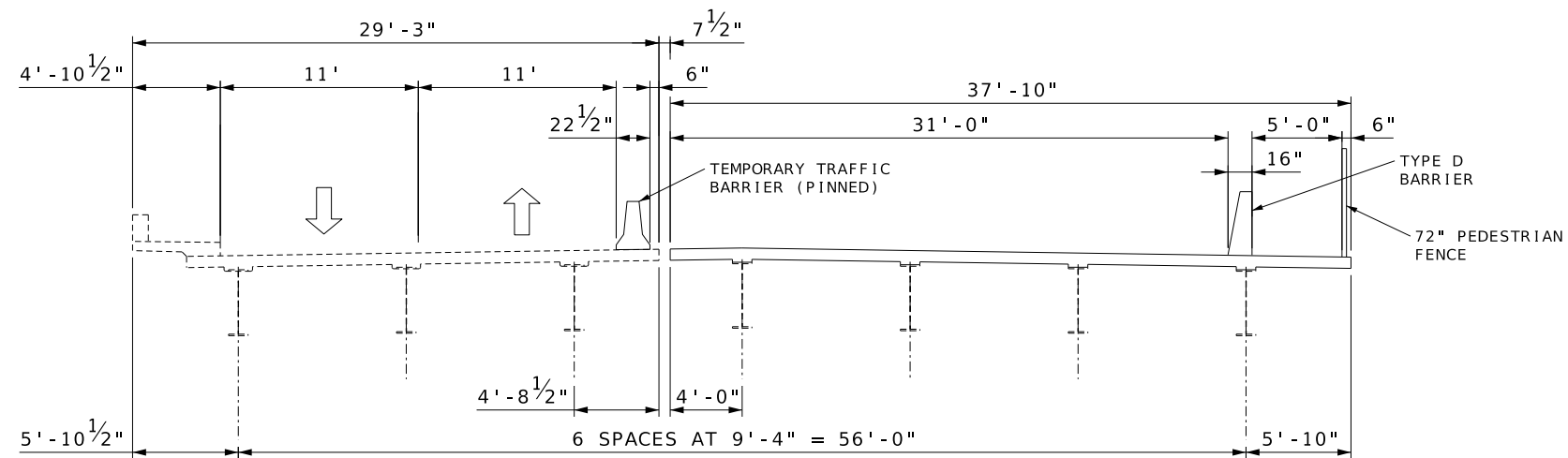
DESCRIPTION	DATE

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

Jacobs
JACOBS ENGINEERING GROUP
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ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-1000
CERTIFICATE OF AUTHORITY #00704

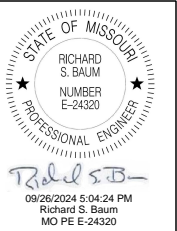
TRAFFIC CONTROL PLAN
(A1072 & A1074)
LEGEND
SHEET 1 OF 1

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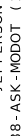


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TRAFFIC CONTROL PLAN
(A1072)
TYPICAL SECTION
SHEET 1 OF 2



DATE PREPARED	
5-AUG-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	16
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

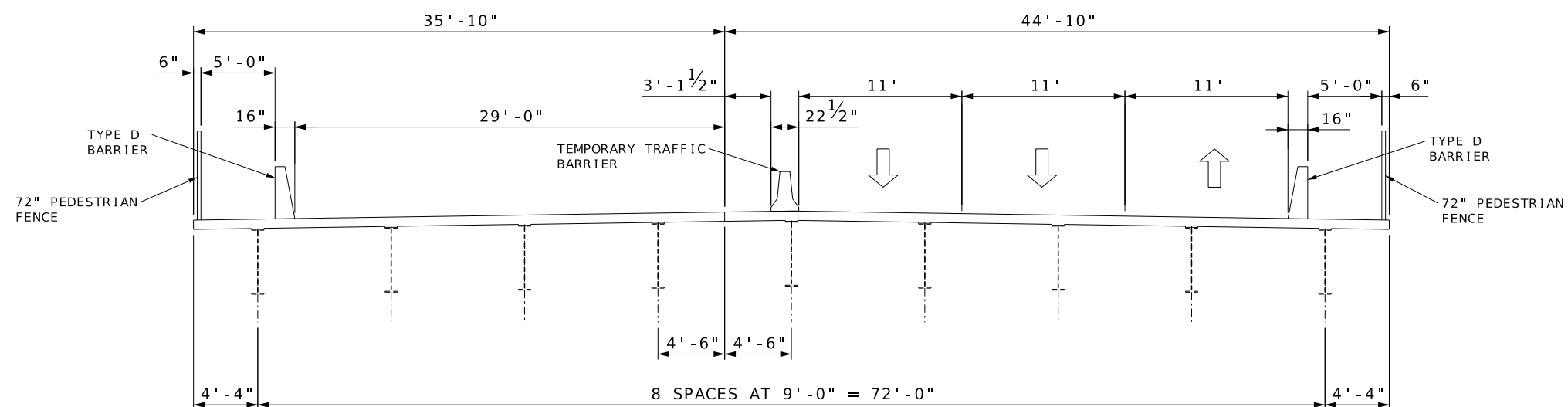
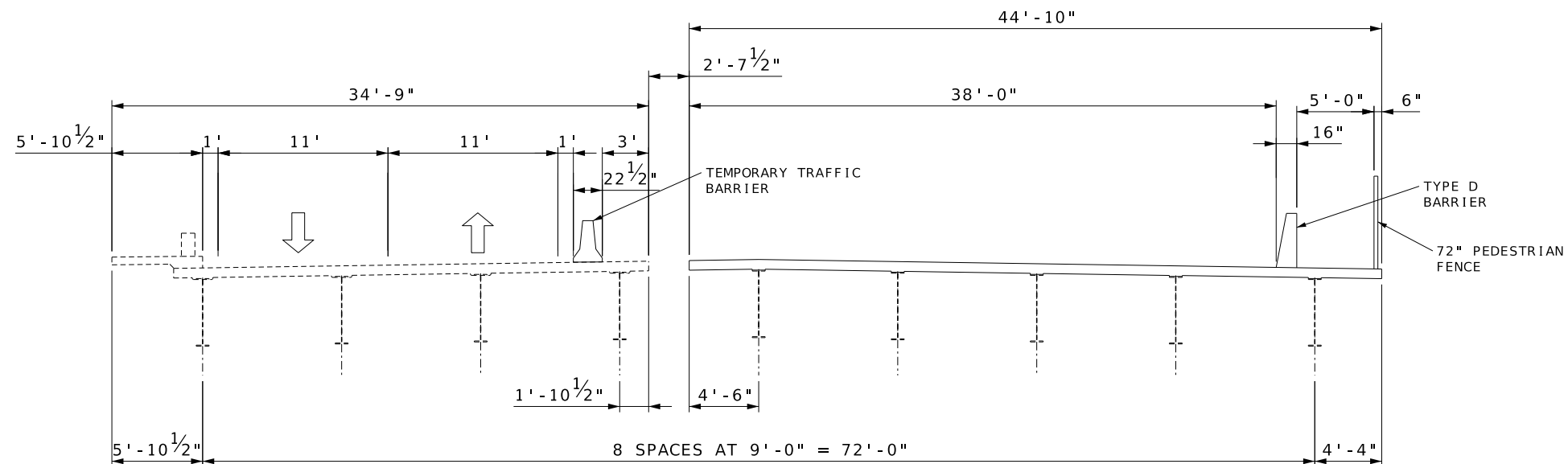
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

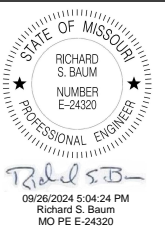
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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TRAFFIC CONTROL PLAN
(A1074)
TYPICAL SECTION
SHEET 2 OF 2



DATE PREPARED
5-AUG-2024

ROUTE	STATE
67	MO

DISTRICT	SHEET NO.
SL	17

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO. _____

BRIDGE NO. _____

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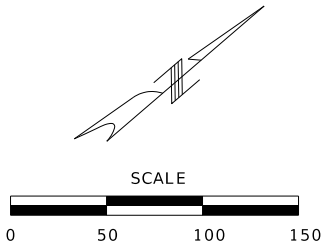


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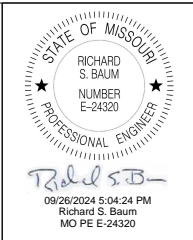
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BRIDGE A1072 STAGE 0 - CONSTRUCTION SEQUENCE

1. INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
2. REMOVE EXISTING RAISED MEDIAN AND PLACE TEMPORARY PAVEMENT AS NECESSARY TO FACILITATE STAGED CONSTRUCTION. FOR STAGED CONSTRUCTION, REMOVE RASIED MEDIAN TO EXISTING MEDIAN INLET. DO NOT DISTURB MEDIAN INLET DURING STAGED CONSTRUCTION. ENTIRE RAISED MEDIAN TO BE REMOVED AND REPLACED UPON COMPLETION OF BRIDGE CONSTRUCTION.



TRAFFIC CONTROL PLAN
A1072 STAGE 0
BEGIN TO STA. 89+00
SHEET 1 OF 5



DATE PREPARED 5-AUG-2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 18
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

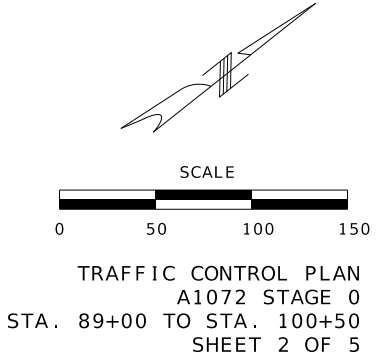
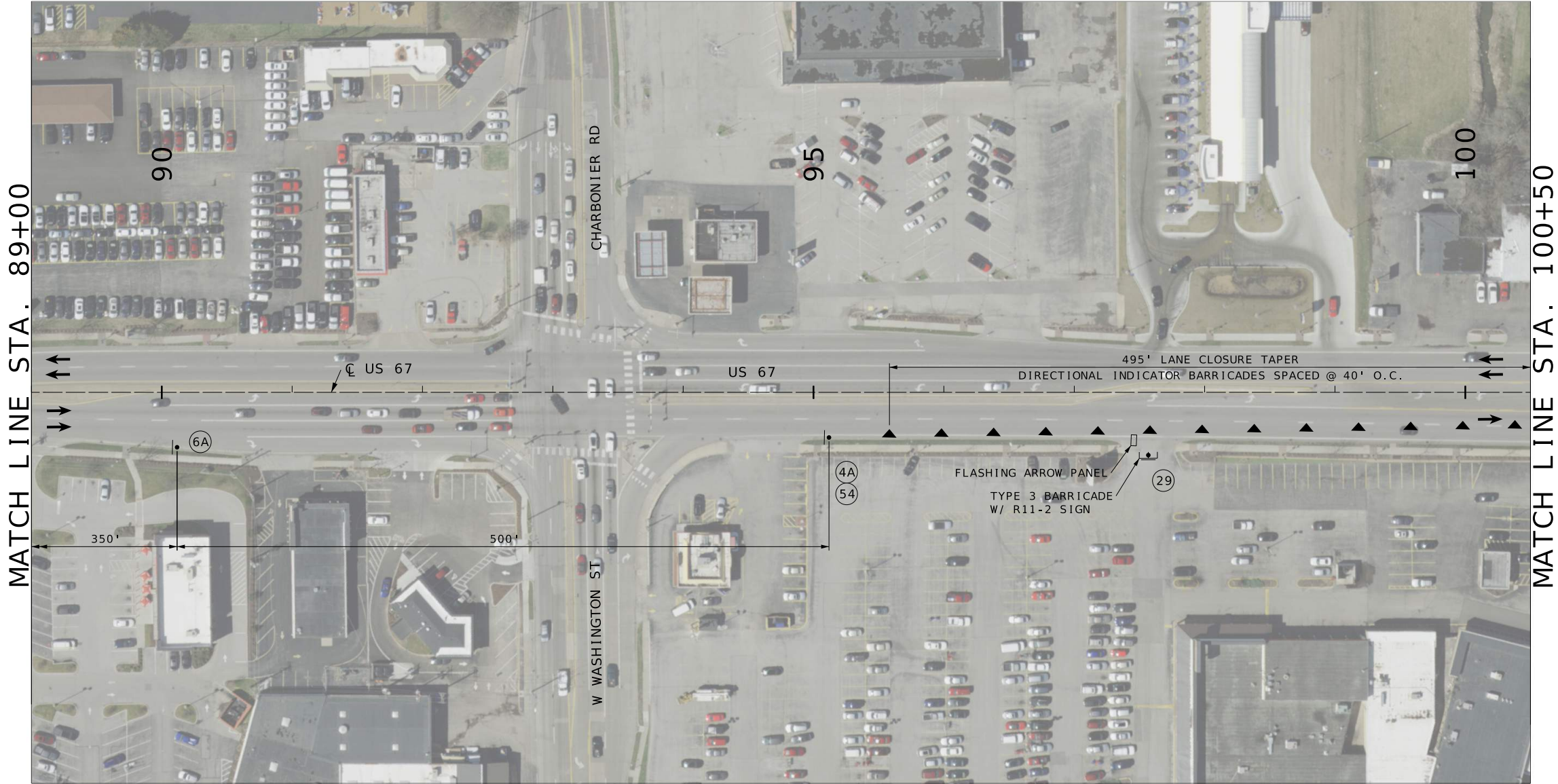
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

J6S3669

JOB NO.

ST. LOUIS

COUNTY

DISTRICT

SL

SHEET NO.

19

ROUTE

67

STATE

MO

DATE PREPARED

5-AUG-2024

STATE OF MISSOURI

RICHARD S. BAUM

NUMBER

E-24320

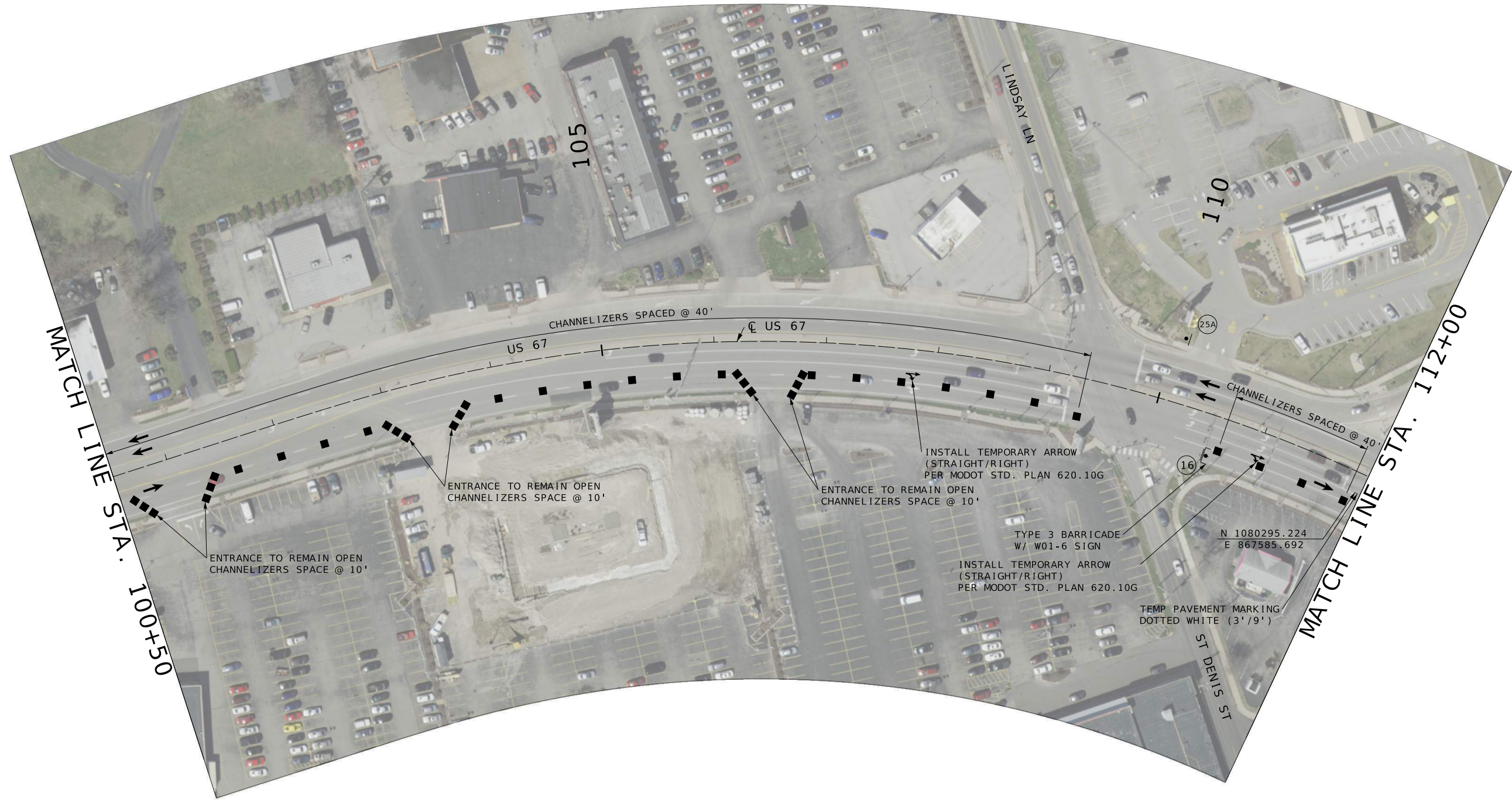
PROFESSIONAL ENGINEER

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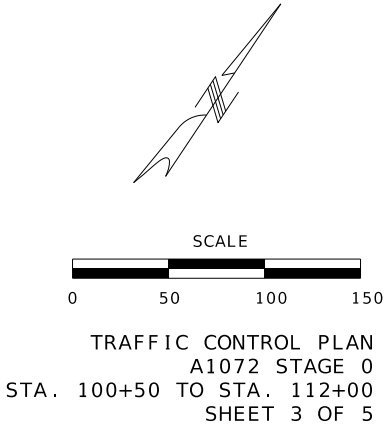
Richard S. Baum

MO PE E-24320

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STATE OF MISSOURI

RICHARD S. BAUM

NUMBER E-24320

PROFESSIONAL ENGINEER

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Richard S. Baum

MO PE E-24320

DATE PREPARED
5-AUG-2024

ROUTE 67

STATE MO

DISTRICT SL

SHEET NO. 20

COUNTY
ST. LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP

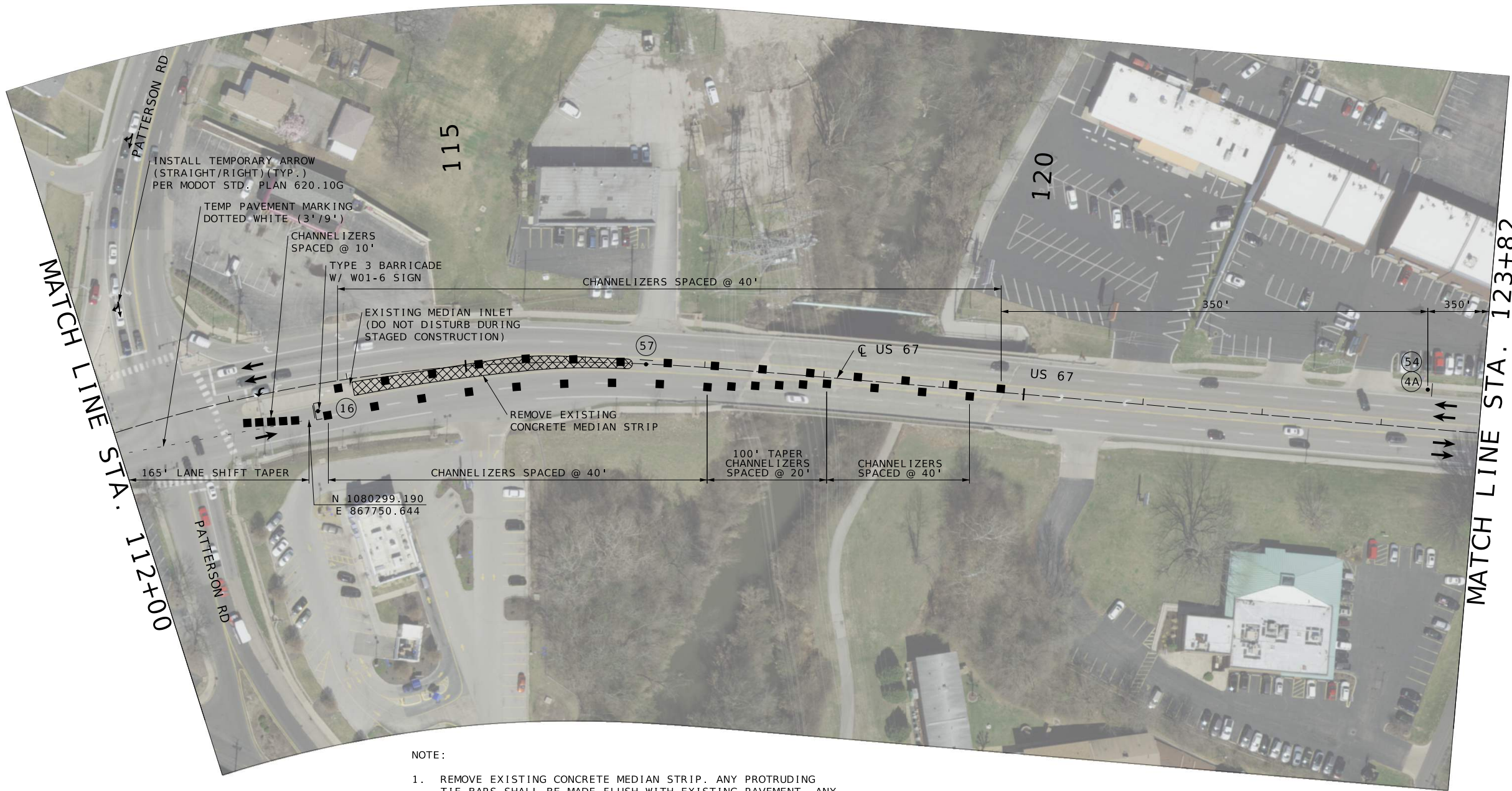
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ST. LOUIS, MISSOURI 63110

PHONE: (314) 355-4000

CERTIFICATE OF AUTHORITY #00704

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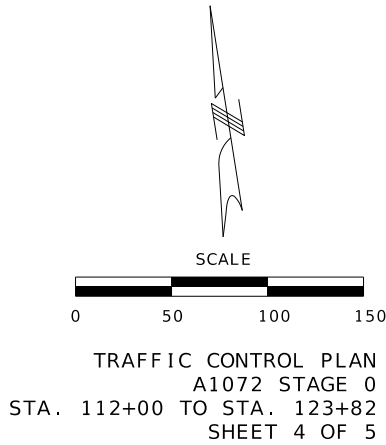


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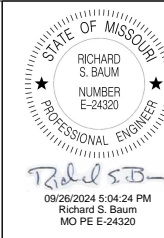
1. REMOVE EXISTING CONCRETE MEDIAN STRIP. ANY PROTRUDING TIE BARS SHALL BE MADE FLUSH WITH EXISTING PAVEMENT. ANY TIE BAR HOLES LEFT BEHIND AFTER REMOVAL SHALL BE FILLED WITH EPOXY. INCIDENTAL TO THE PROJECT. ASPHALTIC CONCRETE SP12SCLP SHALL BE USED TO FILL ANY PAVEMENT VOIDS AND MAKE PAVEMENT FLUSH.

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TRAFFIC CONTROL PLAN
A1072 STAGE 0
STA. 112+00 TO STA. 123+82
SHEET 4 OF 5



DATE PREPARED
25-SEP-2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 21

COUNTY ST. LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

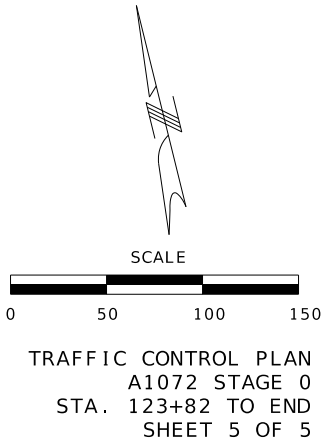
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

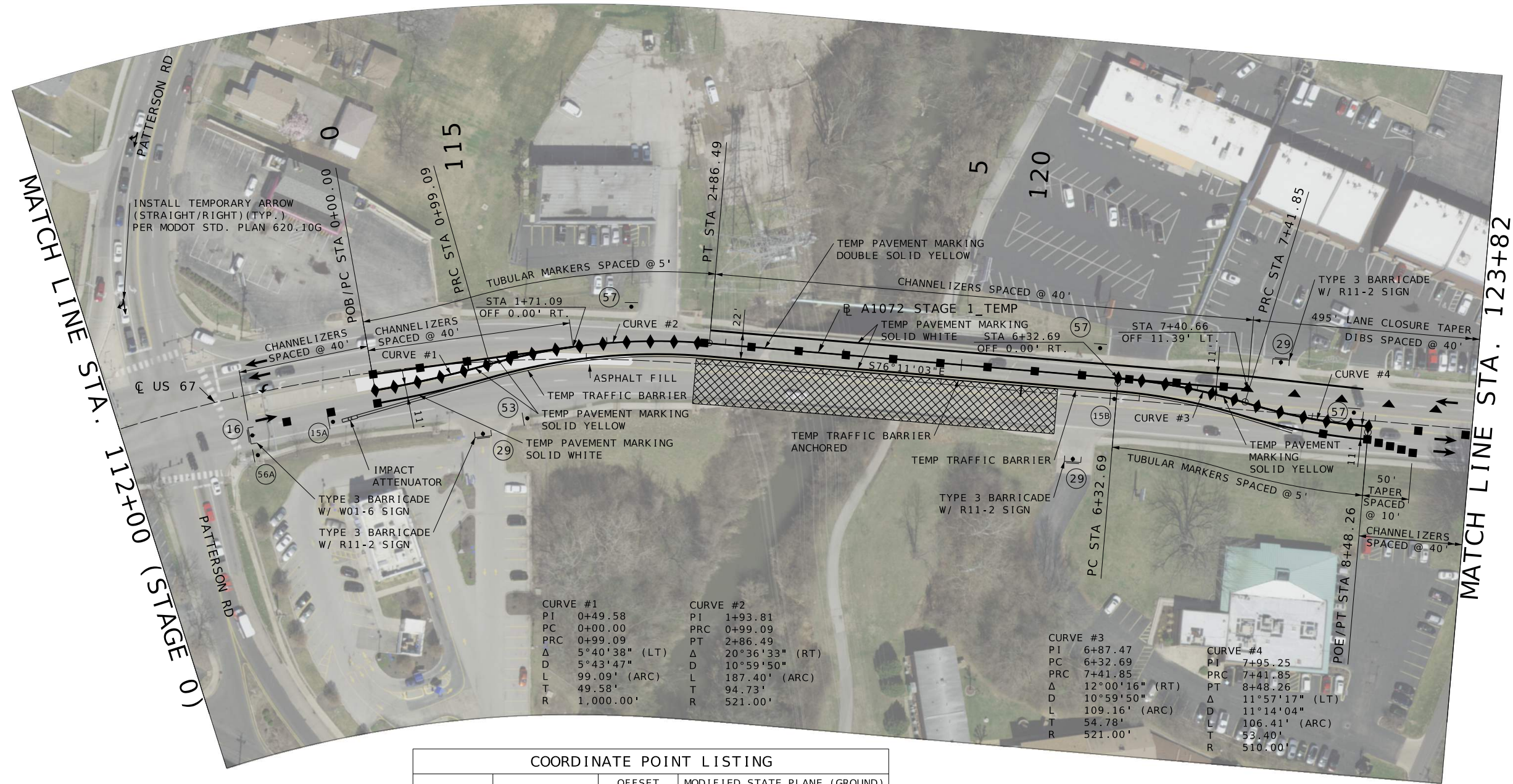
COUNTY
ST. LOUIS
JOB NO.
J6S3669
CONTRACT ID.

ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	22

DATE PREPARED
5-AUG-2024

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
09/26/2024 5:04:24 PM
Richard S. Baum
MO PE E-24320

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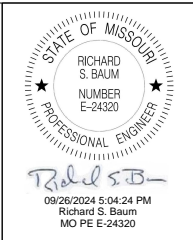
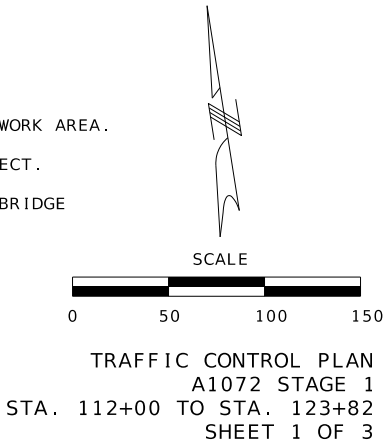
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COORDINATE POINT LISTING				
POINT	STATION	OFFSET	MODIFIED STATE PLANE (GROUND)	
		(FEET)	NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
BASELINE A1072 STAGE 1_TEMP				
POB/PC	0+00.00	0	1080312.4511	867806.2989
PI	0+49.58	0	1080313.4170	867855.8735
PRC	0+99.09	0	1080319.2824	867905.1095
PI	1+93.81	0	1080330.4875	867999.1697
PT	2+86.49	0	1080307.8670	868091.1545
PC	6+32.69	0	1080225.1947	868427.3353
PI	6+87.47	0	1080212.1131	868480.5306
PRC	7+41.85	0	1080188.2536	868529.8418
PI	7+95.25	0	1080164.9952	868577.9105
POE/PT	8+48.26	0	1080152.1982	868629.7544

- NOTES:
- TEMPORARY TRAFFIC BARRIER SHALL BE ANCHORED FOR THE ENTIRE LENGTH OF THE WORK AREA.
 - ANY REQUIRED TEMPORARY SHORING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 - ANY MILLING AND/OR ASPHALT PLACEMENT TO CREATE SMOOTH TRANSITIONS AT THE BRIDGE APPROACH TIE-INS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

BRIDGE A1072 STAGE 1 - CONSTRUCTION SEQUENCE

- INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
- REMOVE AND REPLACE BRIDGE DECK FOR BRIDGE A1072 FOR NB US 67 TRAFFIC LANES AS SHOWN.



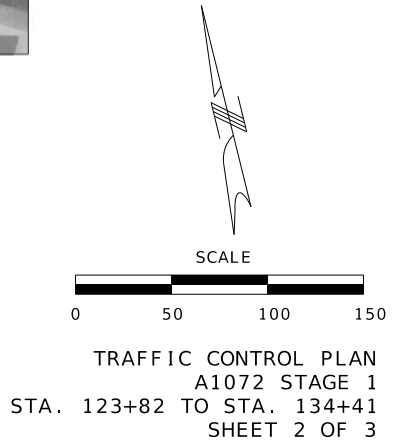
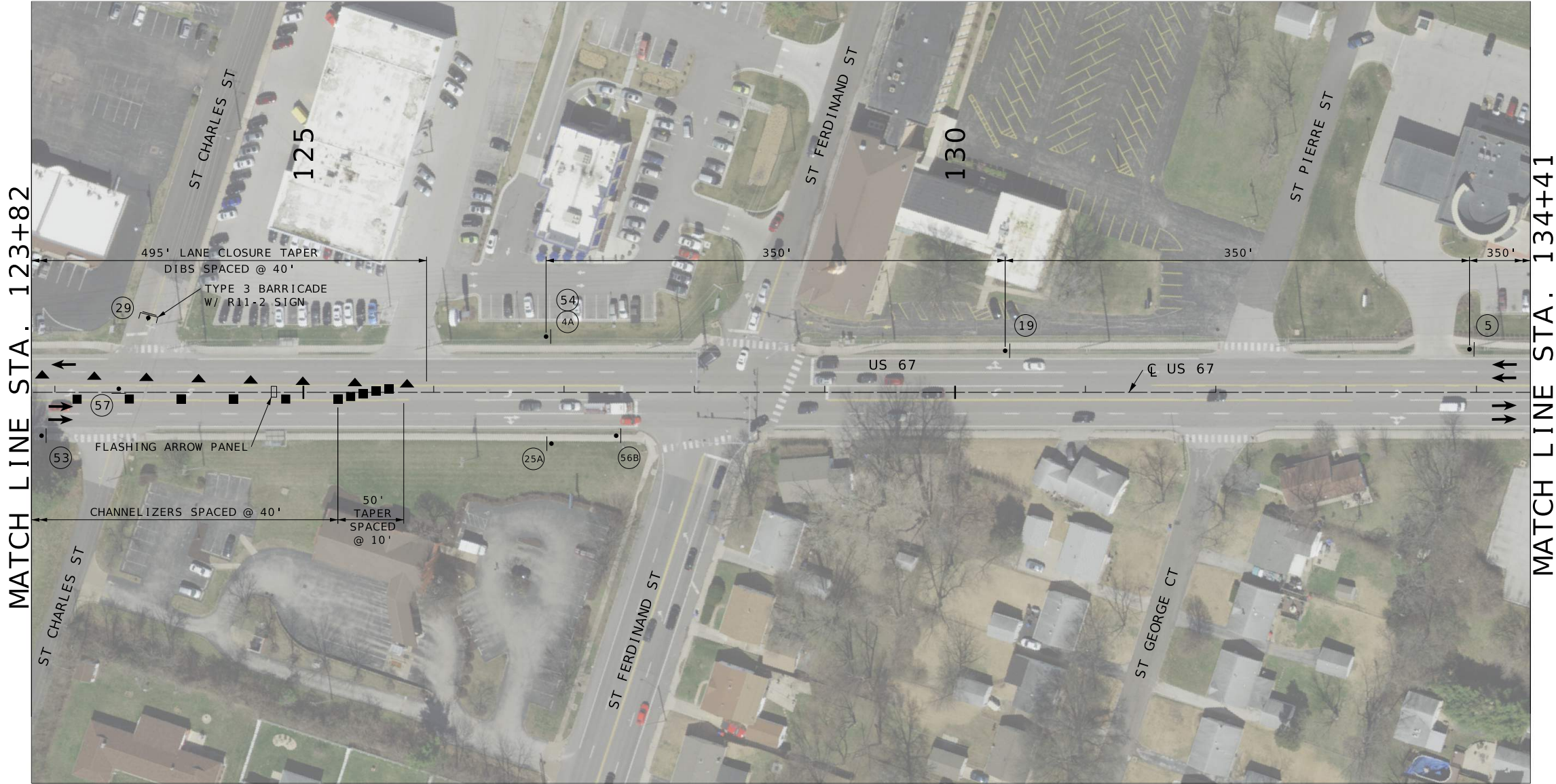
DATE PREPARED 25-SEP-2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 23
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE



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1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
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PHONE: (314) 355-4000
CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

ST. LOUIS
J6S3669
CONTRACT ID.

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
09/26/2024 5:04:24 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
25-SEP-2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 24

COUNTY
ST. LOUIS

JOB NO.
J6S3669

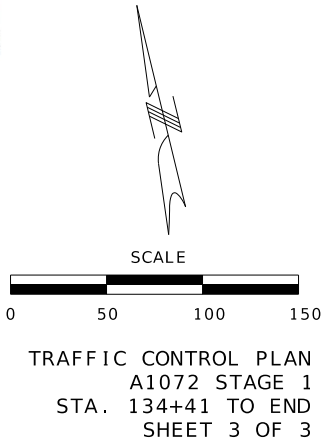
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PROJECT NO.

BRIDGE NO.

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PROJECT NO.
BRIDGE NO.

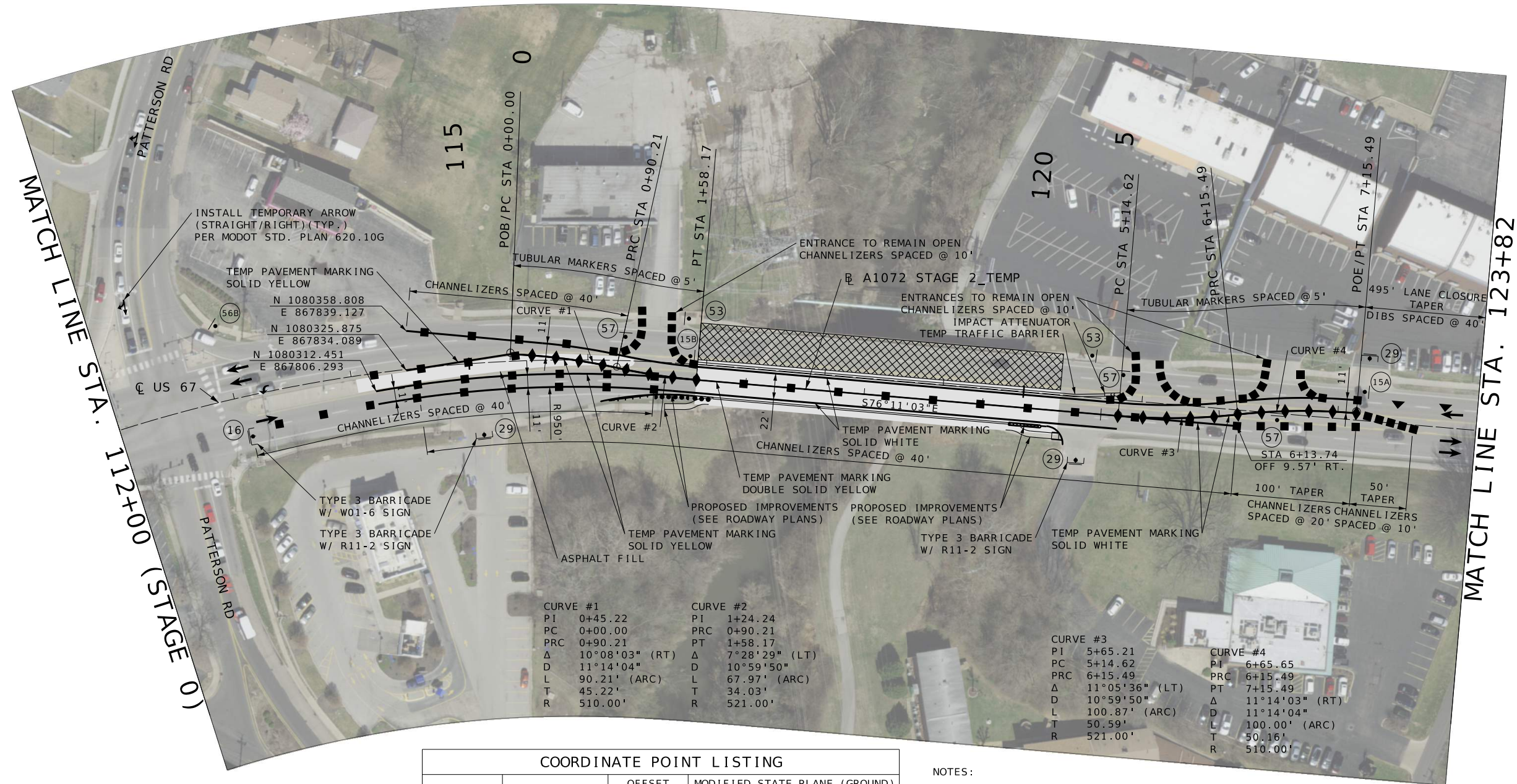
COUNTY
ST. LOUIS
JOB NO.
J6S3669
CONTRACT ID.

ROUTE
67
STATE
MO
DISTRICT
SL
SHEET NO.
25

DATE PREPARED
5-AUG-2024

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER
E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
09/26/2024 5:04:24 PM
Richard S. Baum
MO PE E-24320

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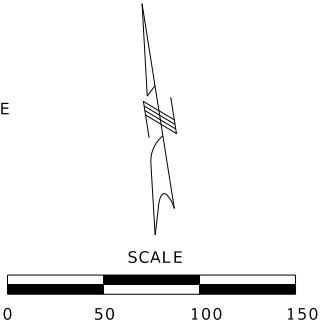
COORDINATE POINT LISTING				
POINT	STATION	OFFSET	MODIFIED STATE PLANE (GROUND)	
		(FEET)	NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
BASELINE A1072 STAGE 2_TEMP				
POB/PC	0+00.00	0	1080325.8176	867922.7318
PI	0+45.22	0	1080317.0679	867967.0981
PRC	0+90.21	0	1080300.6484	868009.2326
PI	1+24.24	0	1080288.2913	868040.9425
PT	1+58.17	0	1080280.1643	868073.9905
PC	5+14.62	0	1080195.0452	868420.1210
PI	5+65.21	0	1080182.9632	868469.2515
PRC	6+15.49	0	1080180.5600	868519.7887
PI	6+65.65	0	1080178.1774	868569.8917
POE/PT	7+15.49	0	1080166.0794	868618.5704

NOTES:

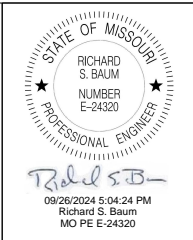
- ANY REQUIRED TEMPORARY SHORING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ANY MILLING AND/OR ASPHALT PLACEMENT TO CREATE SMOOTH TRANSITIONS AT THE BRIDGE APPROACH TIE-INS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

BRIDGE A1072 STAGE 2 - CONSTRUCTION SEQUENCE

- INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
- MOVE TRAFFIC TO THE NEWLY CONSTRUCTED DECK AND REMOVE AND REPLACE BRIDGE DECK FOR BRIDGE A1072 FOR SB US 67 TRAFFIC LANES AS SHOWN.
- UPON COMPLETION OF STAGE 2, SHIFT TRAFFIC TO FINAL CONFIGURATION ACROSS THE NEW BRIDGE DECK. THEN REMOVE REMAINING RAISED MEDIAN ISLAND AND REPLACE WITH NEW RAISED MEDIAN AS SHOWN ON THE ROADWAY PLANS.



TRAFFIC CONTROL PLAN
A1072 STAGE 2
STA. 112+00 TO STA. 123+82
SHEET 1 OF 3



DATE PREPARED	
25-SEP-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	26
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DRIVE W, SUITE 400

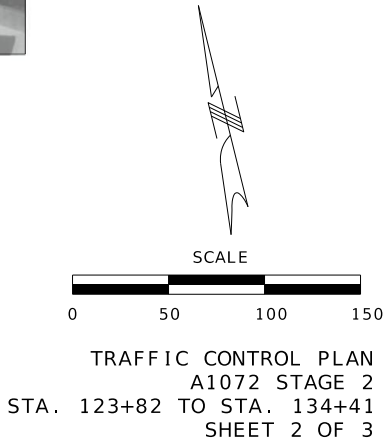
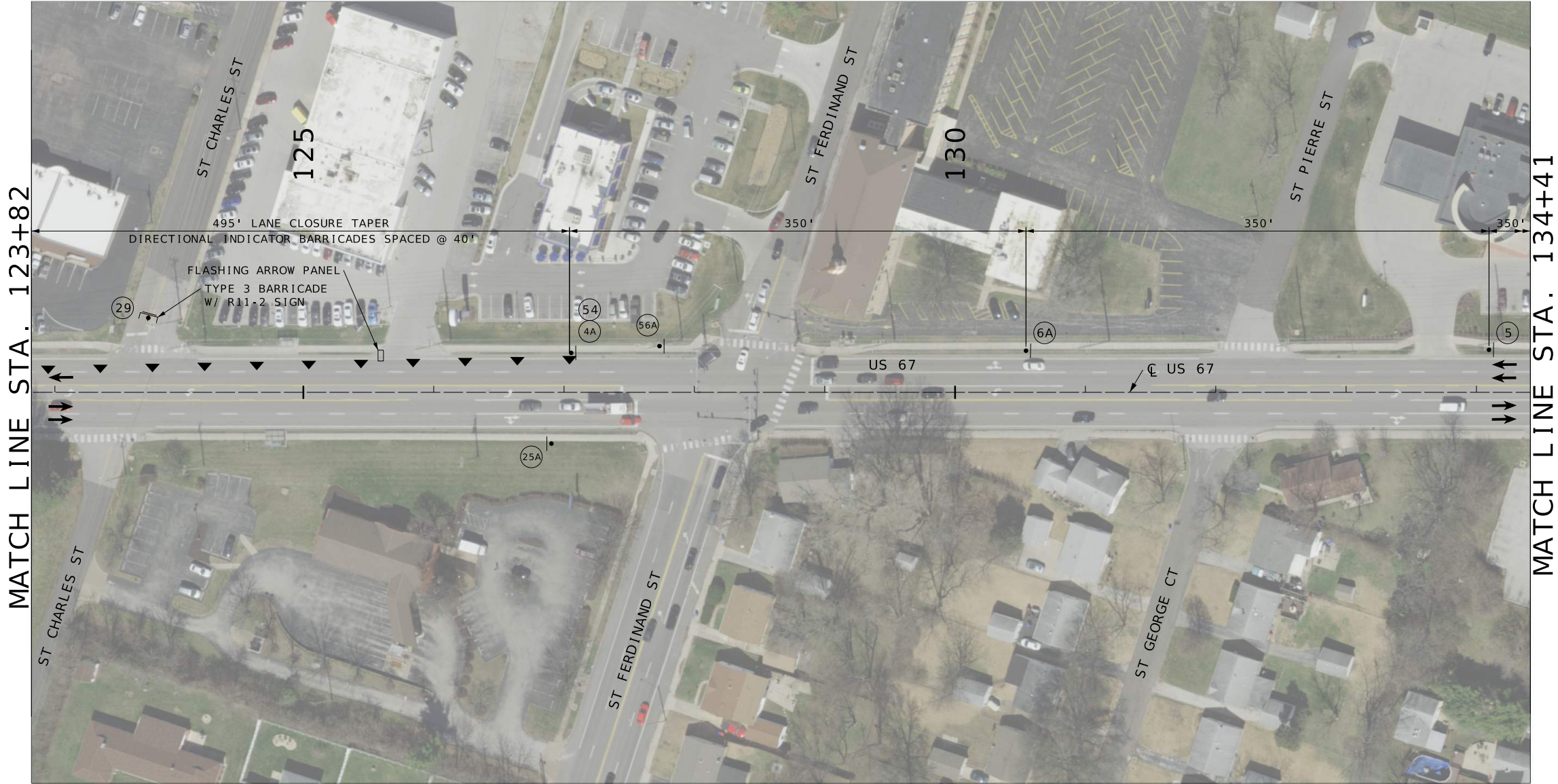
ST. LOUIS, MISSOURI 63110

PHONE: (314) 355-4000

CERTIFICATE OF AUTHORITY #00704

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JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
FAX: (314) 355-4001
CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.
J6S3669

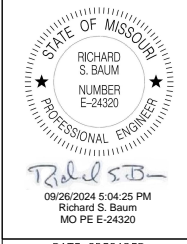
COUNTY
ST. LOUIS

DISTRICT
SL

ROUTE
67

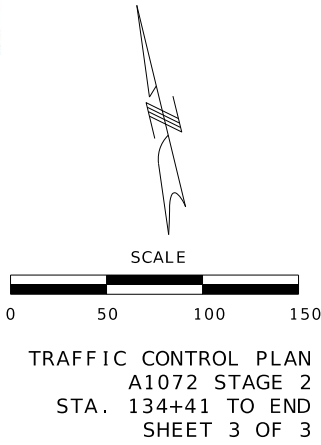
STATE
MO

DATE PREPARED
5-AUG-2024



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CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

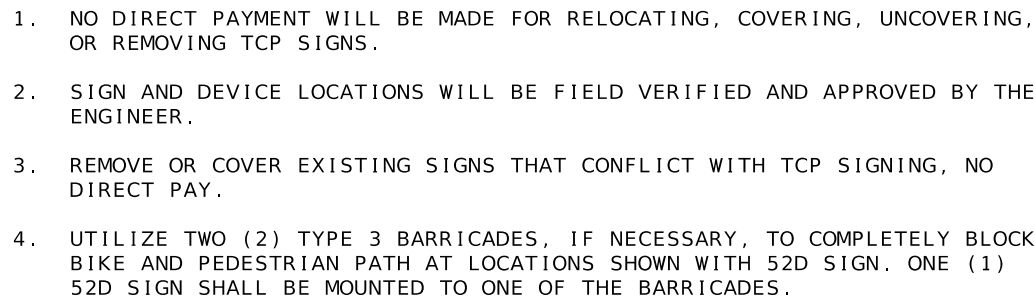
COUNTY
ST. LOUIS
JOB NO.
J6S3669
CONTRACT ID.

ROUTE
67
STATE
MO
DISTRICT
SL
SHEET NO.
28

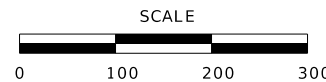
DATE PREPARED
5-AUG-2024

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
09/26/2024 5:04:25 PM
Richard S. Baum
MO PE E-24320

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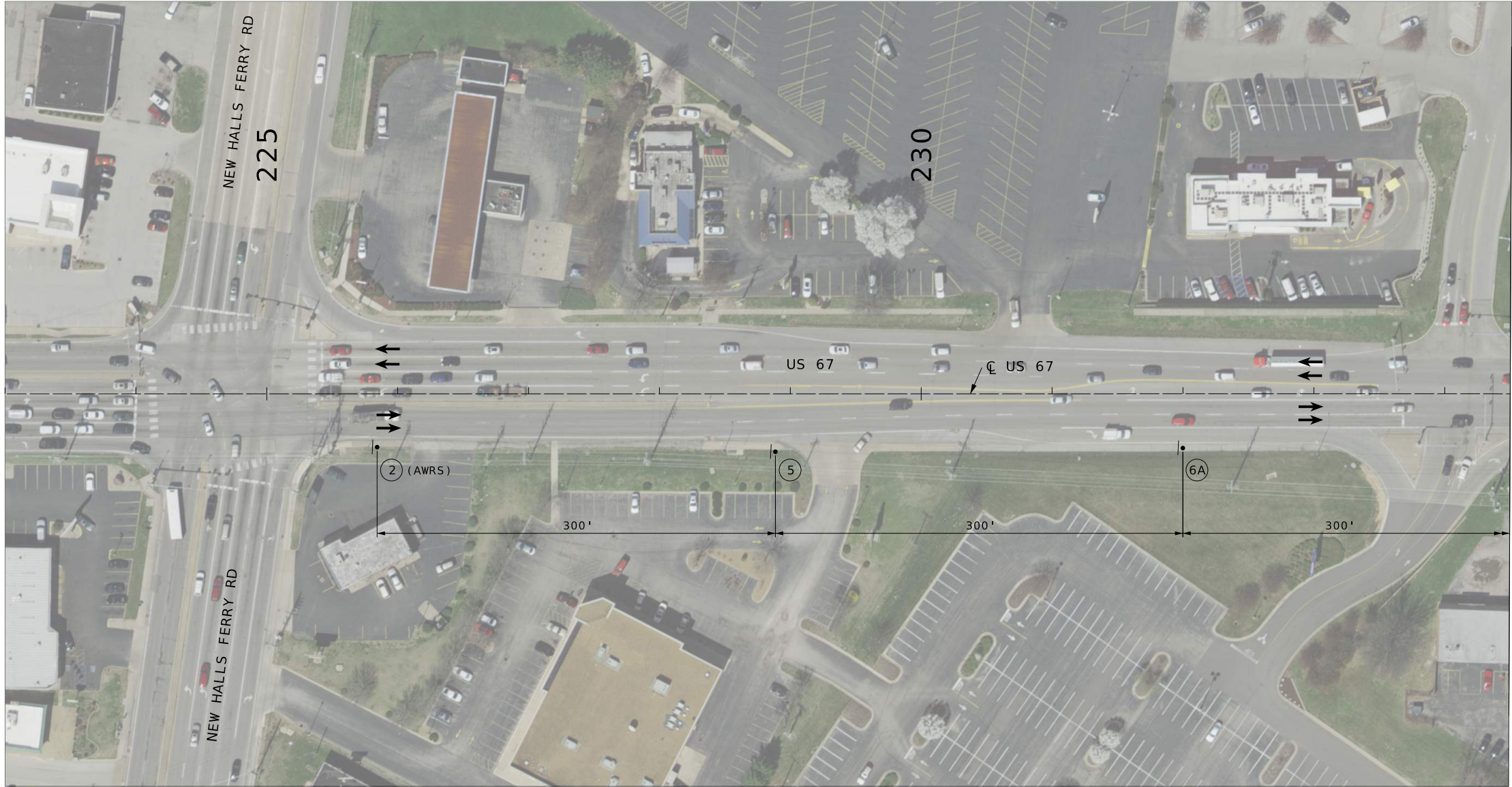
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TRAFFIC CONTROL PLAN
A1072
BIKE AND PEDESTRIAN DETOUR
SHEET 1 OF 1



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



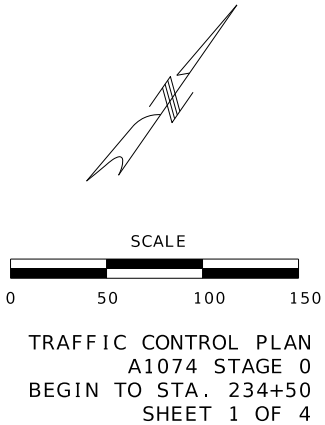
MATCH LINE STA. 234+50

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BRIDGE A1074 STAGE 0 - CONSTRUCTION SEQUENCE

1. INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
2. REMOVE EXISTING RAISED MEDIAN AND PLACE TEMPORARY PAVEMENT AS NECESSARY.



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JACOBS ENGINEERING GROUP
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CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.

BRIDGE NO.

CONTRACT ID.

J6S3669

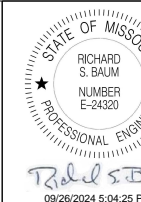
ST. LOUIS

SL 30

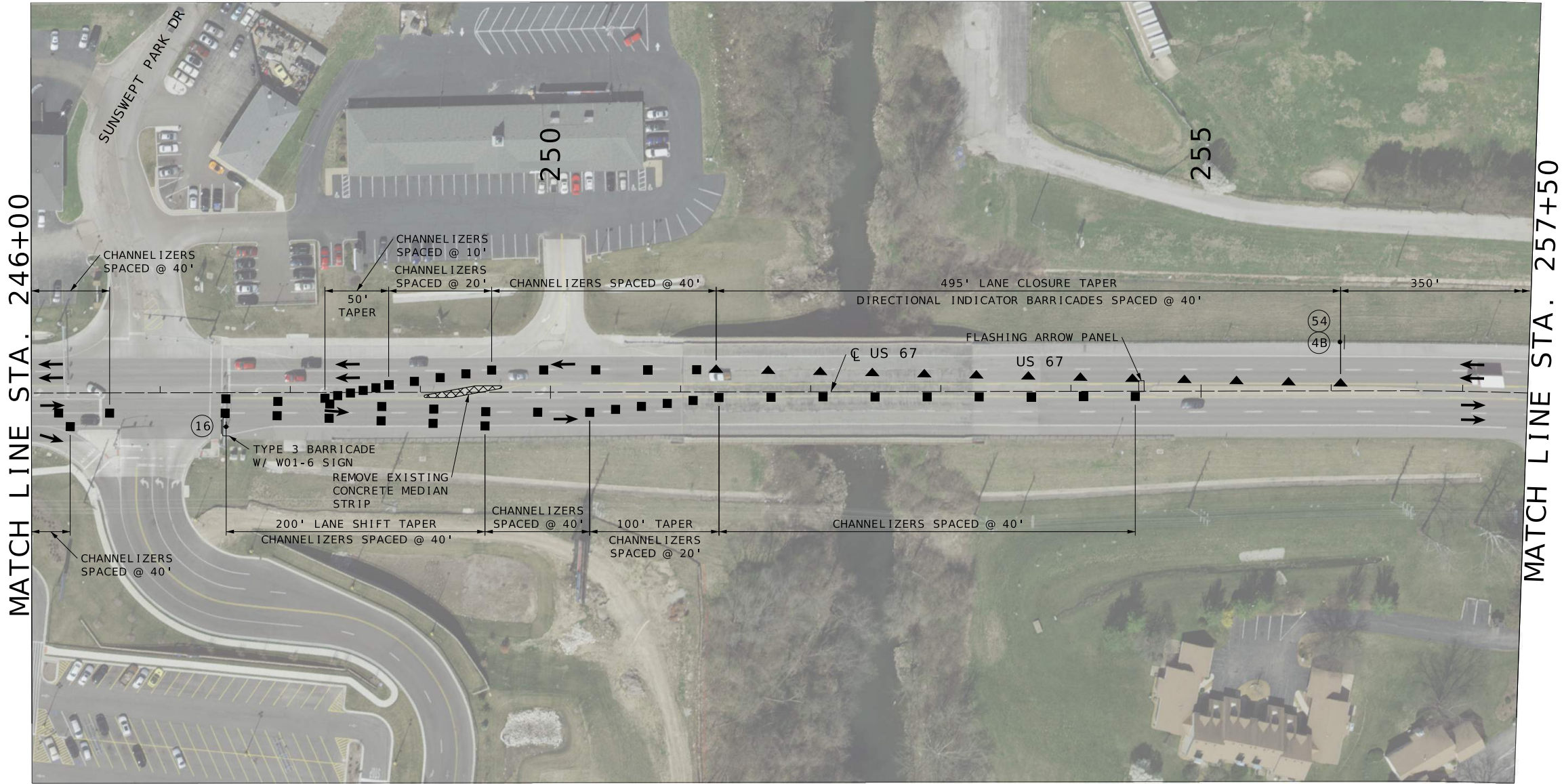
ROUTE 67

STATE MO

DATE PREPARED 5-AUG-2024



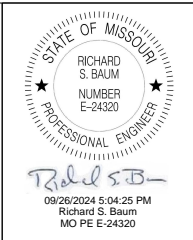
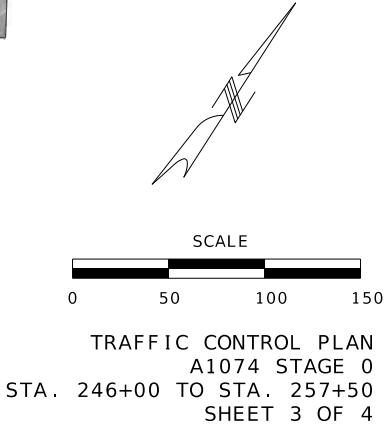
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



- NOTE:
1. REMOVE EXISTING CONCRETE MEDIAN STRIP. ANY PROTRUDING TIE BARS SHALL BE MADE FLUSH WITH EXISTING PAVEMENT. ANY TIE BAR HOLES LEFT BEHIND AFTER REMOVAL SHALL BE FILLED WITH EPOXY, INCIDENTAL TO THE PROJECT. ASPHALTIC CONCRETE SP125CLP SHALL BE USED TO FILL ANY PAVEMENT VOIDS AND MAKE PAVEMENT FLUSH.

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DATE PREPARED	
12-AUG-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	32
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

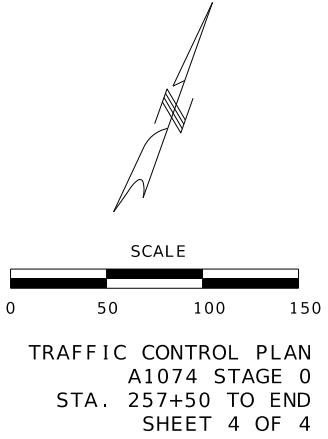
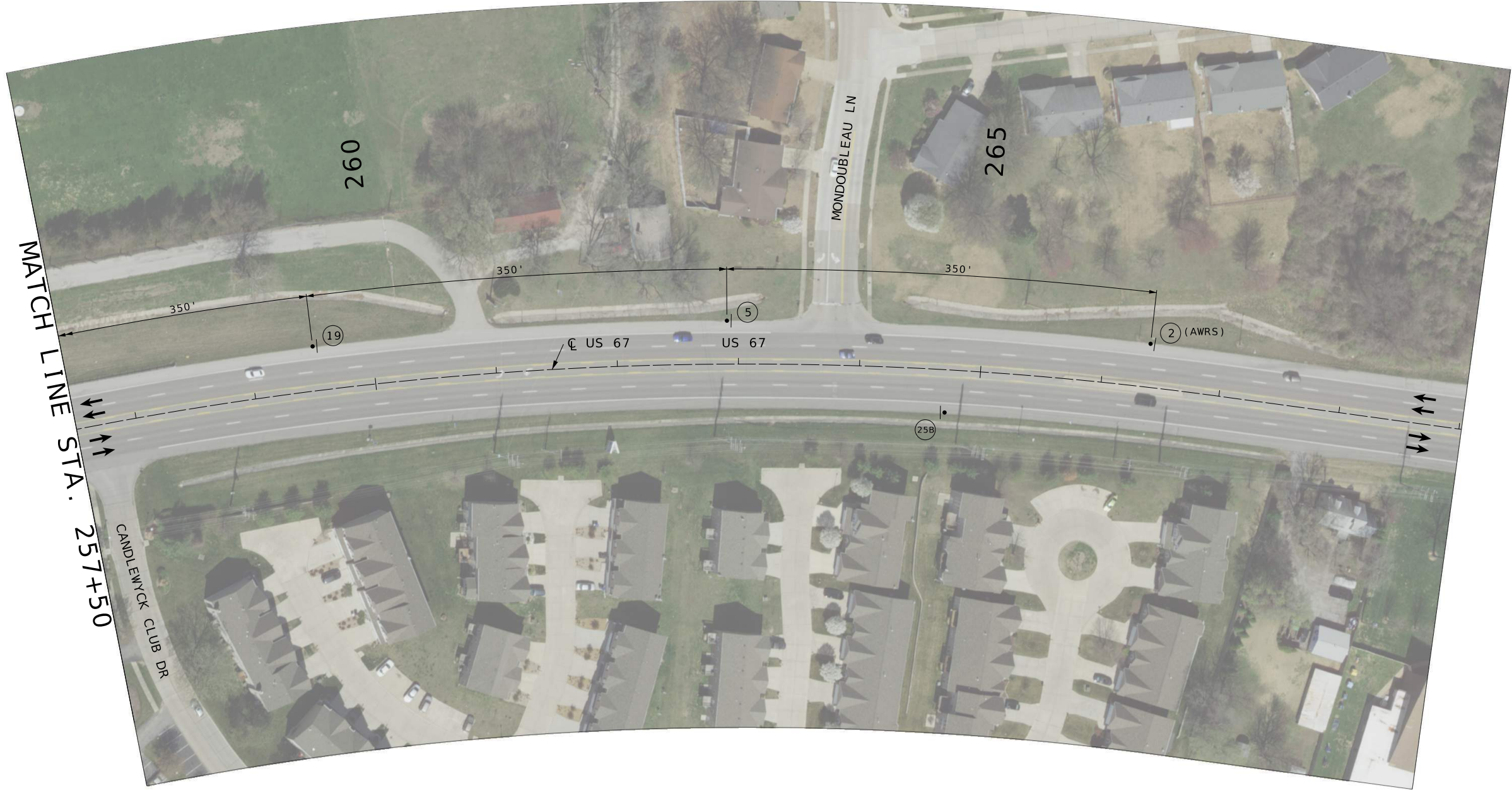
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
FAX: (314) 355-4001
CERTIFICATE OF AUTHORITY #00704

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JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
FAX: (314) 355-4001
CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.

CONTRACT ID.
J6S3669

JOB NO.
ST. LOUIS

COUNTY
SL

DISTRICT
33

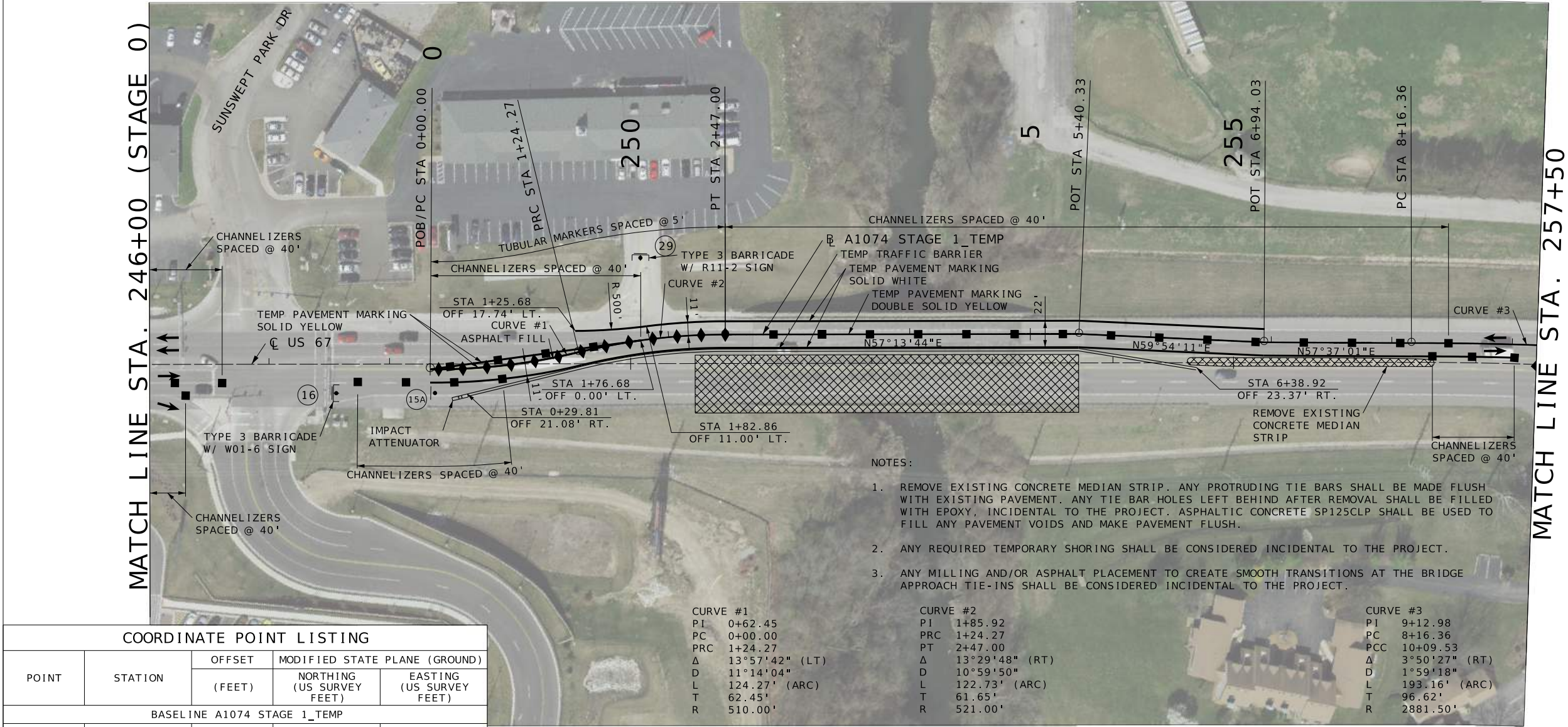
ROUTE
67

STATE
MO

DATE PREPARED
5-AUG-2024



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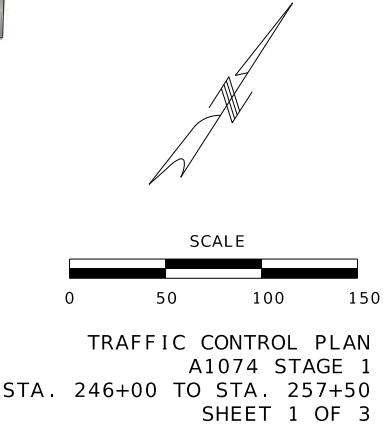


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BRIDGE A1074 STAGE 1 - CONSTRUCTION SEQUENCE

- INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
- REMOVE AND REPLACE BRIDGE DECK FOR BRIDGE A1074 FOR NB US 67 TRAFFIC LANES AS SHOWN.
- REMOVE EXISTING RAISED MEDIAN AND PLACE TEMPORARY PAVEMENT AS NECESSARY.



STATE OF MISSOURI

RICHARD S. BAUM

NUMBER E-24320

PROFESSIONAL ENGINEER

09/26/2024 5:04:25 PM

Richard S. Baum

MO PE E-24320

DATE PREPARED

19-SEP-2024

ROUTE

67

STATE

MO

DISTRICT

SL

SHEET NO.

34

COUNTY

ST. LOUIS

JOB NO.

J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

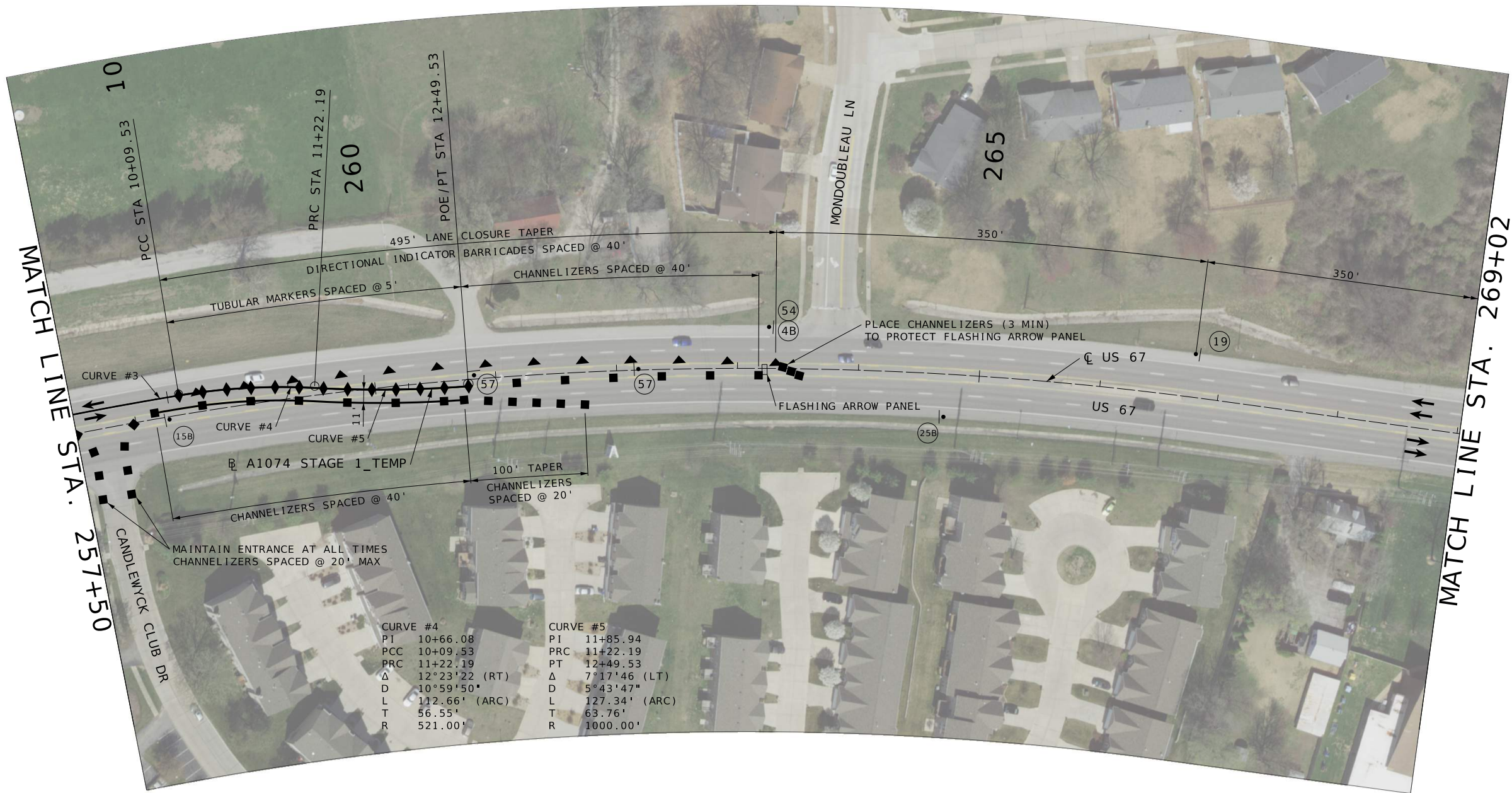
MoDOT

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

Jacobs

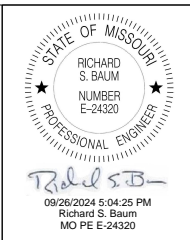
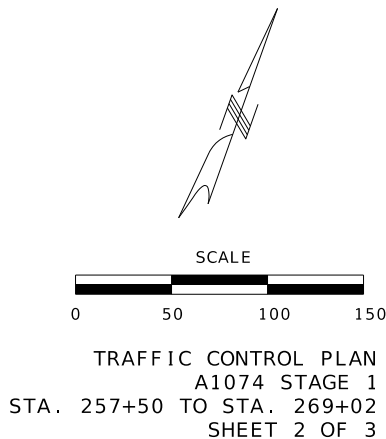
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
CERTIFICATE OF AUTHORITY #00704

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CURVE #4		CURVE #5	
PI	10+66.08	PI	11+85.94
PCC	10+09.53	PRC	11+22.19
PRC	11+22.19	PT	12+49.53
Δ	12°23'22" (RT)	Δ	7°17'46" (LT)
D	10°59'50"	D	5°43'47"
L	112.66' (ARC)	L	127.34' (ARC)
T	56.55'	T	63.76'
R	521.00'	R	1000.00'

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DATE PREPARED 25-SEP-2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 35
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

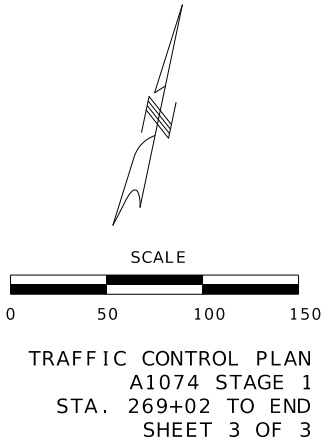
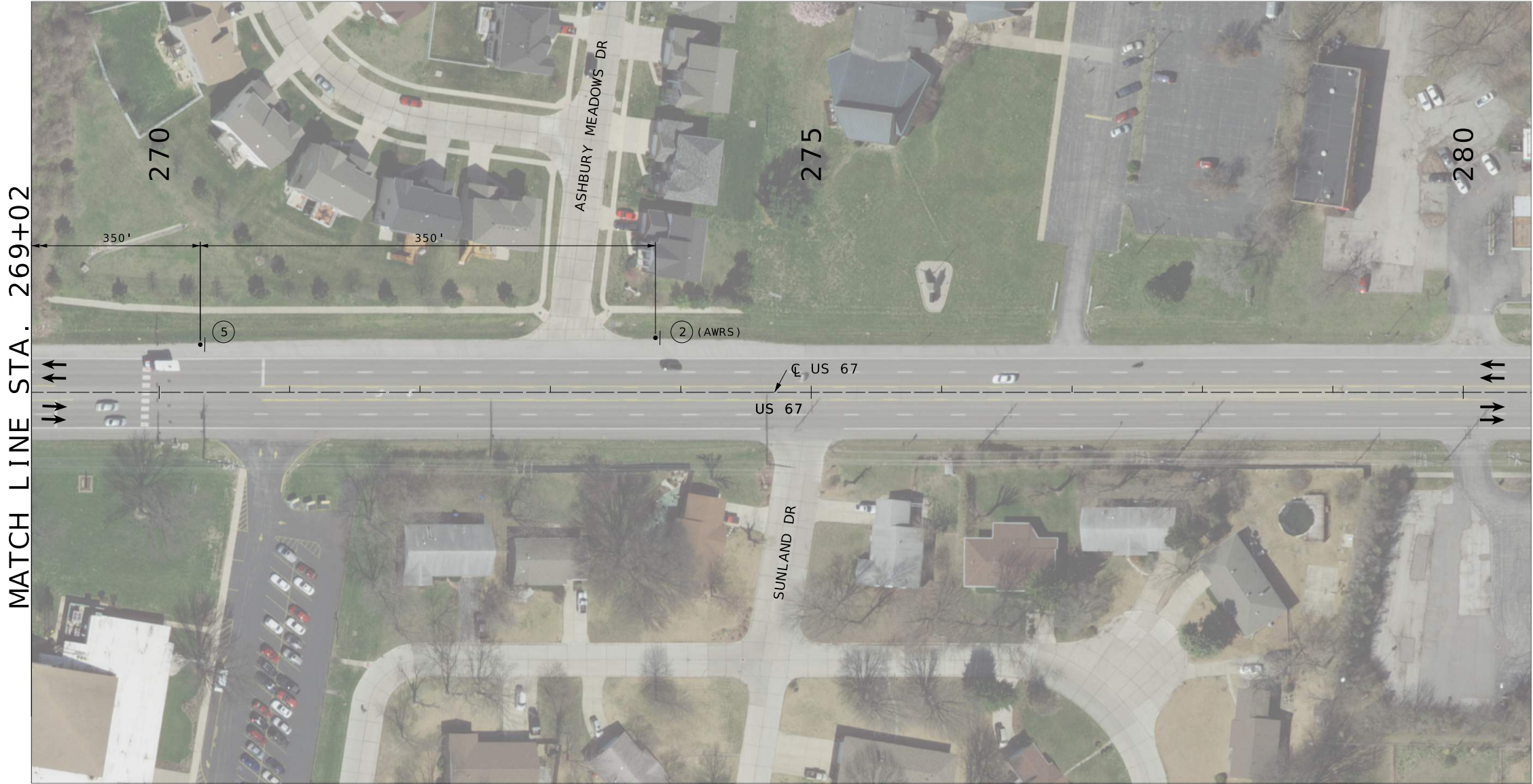
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-1000
FAX: (314) 355-1001
CERTIFICATE OF AUTHORITY #00704

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Jacobs
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1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
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PHONE: (314) 355-4000
FAX: (314) 355-4001
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

CONTRACT ID.
JOB NO.
J6S3669
COUNTY
ST. LOUIS
DISTRICT
SL
SHEET NO.
36
ROUTE
67
STATE
MO
DATE PREPARED
5-AUG-2024

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
09/26/2024 5:04:25 PM
Richard S. Baum
MO PE E-24320

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



CURVE #2	
PI	1+72.45
PRC	1+14.11
PT	2+30.32
Δ	12°46'47" (LT)
D	10°59'50"
L	116.21' (ARC)
T	58.35'
R	521.00'

CURVE #4
PI 7+22.68
PRC 6+63.63
PT 7+81.23
Δ 12°56'02" (RT)
D 10°59'50"
L 117.61' (ARC)
T 59.06'
R 521.00'

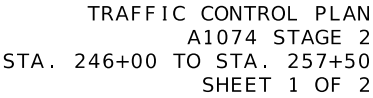
NOTES:

1. ANY REQUIRED TEMPORARY SHORING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
2. ANY MILLING AND/OR ASPHALT PLACEMENT TO CREATE SMOOTH TRANSITIONS AT THE BRIDGE APPROACH TIE-INS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

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1. INSTALL TRAFFIC CONTROL DEVICES, SIGNING, AND TEMPORARY DEVICES AS SHOWN ON PLANS.
2. MOVE TRAFFIC TO THE NEWLY CONSTRUCTED DECK AND REMOVE AND REPLACE BRIDGE DECK FOR BRIDGE A1074 FOR SB US 67 TRAFFIC LANES AS SHOWN.
3. UPON COMPLETION OF STAGE 2, TRAFFIC WILL BE MOVED TO ITS FINAL CONFIGURATION AND THE NEW RAISED MEDIAN ACROSS THE BRIDGE SHALL BE CONSTRUCTED. THE ENDS OF THE RAISED MEDIAN ACROSS THE BRIDGE SHALL BE PROTECTED BY TEMPORARY IMPACT ATTENUATORS UNTIL THE ROADWAY RAISED MEDIAN IS COMPLETED BY PROJECT J6P3623.



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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JEFFERSON CITY, MO 65102
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Jacobs.
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1001 HIGHLANDS PLAZA DRIVE W. SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



STATE OF MISSOURI
 RICHARD
 S. BAUM
 NUMBER
 E-24320
 PROFESSIONAL ENGINEER

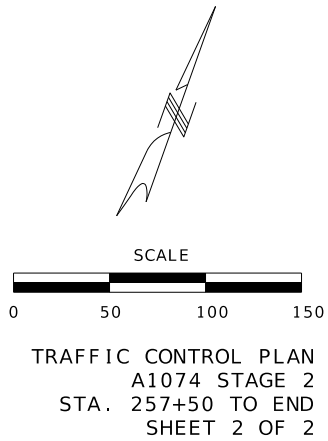
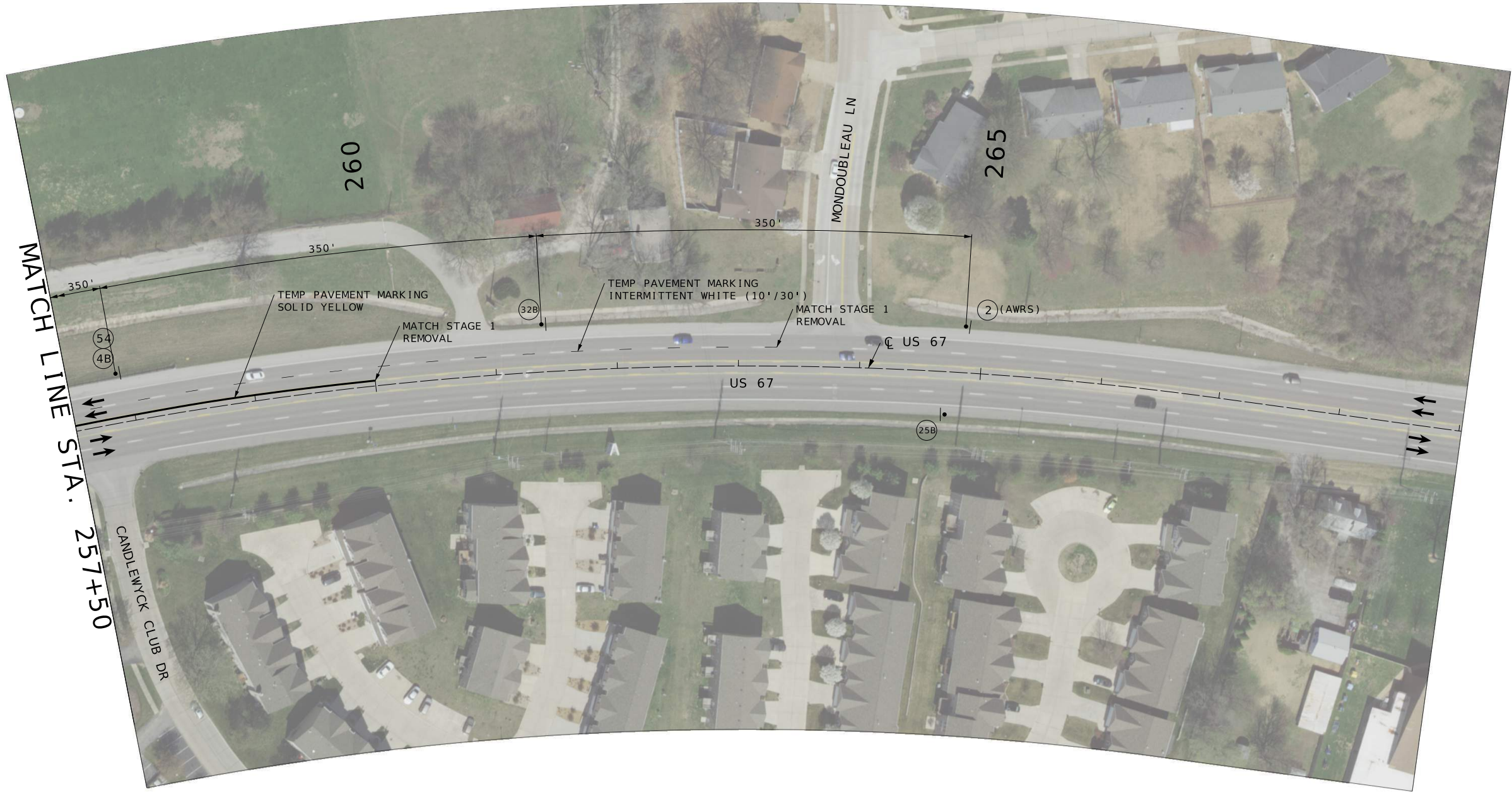
Richard S. Baum

09/26/2024 5:04:25 PM
 Richard S. Baum
 MO PE E-24320

DATE PREPARED	
25-SEP-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	37
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 355-4000
FAX: (314) 355-4001
CERTIFICATE OF AUTHORITY #00704

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

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

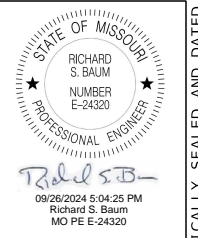
CONTRACT ID.
JOB NO.
J6S3669
COUNTY
ST. LOUIS
DISTRICT
SL
SHEET NO.
38
ROUTE
67
STATE
MO
DATE PREPARED
5-AUG-2024

STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
Richard S. Baum
09/26/2024 5:04:25 PM
Richard S. Baum
MO PE E-24320

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5 - AUG - 2024

ROUTE	STATE
67	MO

DISTRICT	SHEET NO.
SL	39

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO. _____

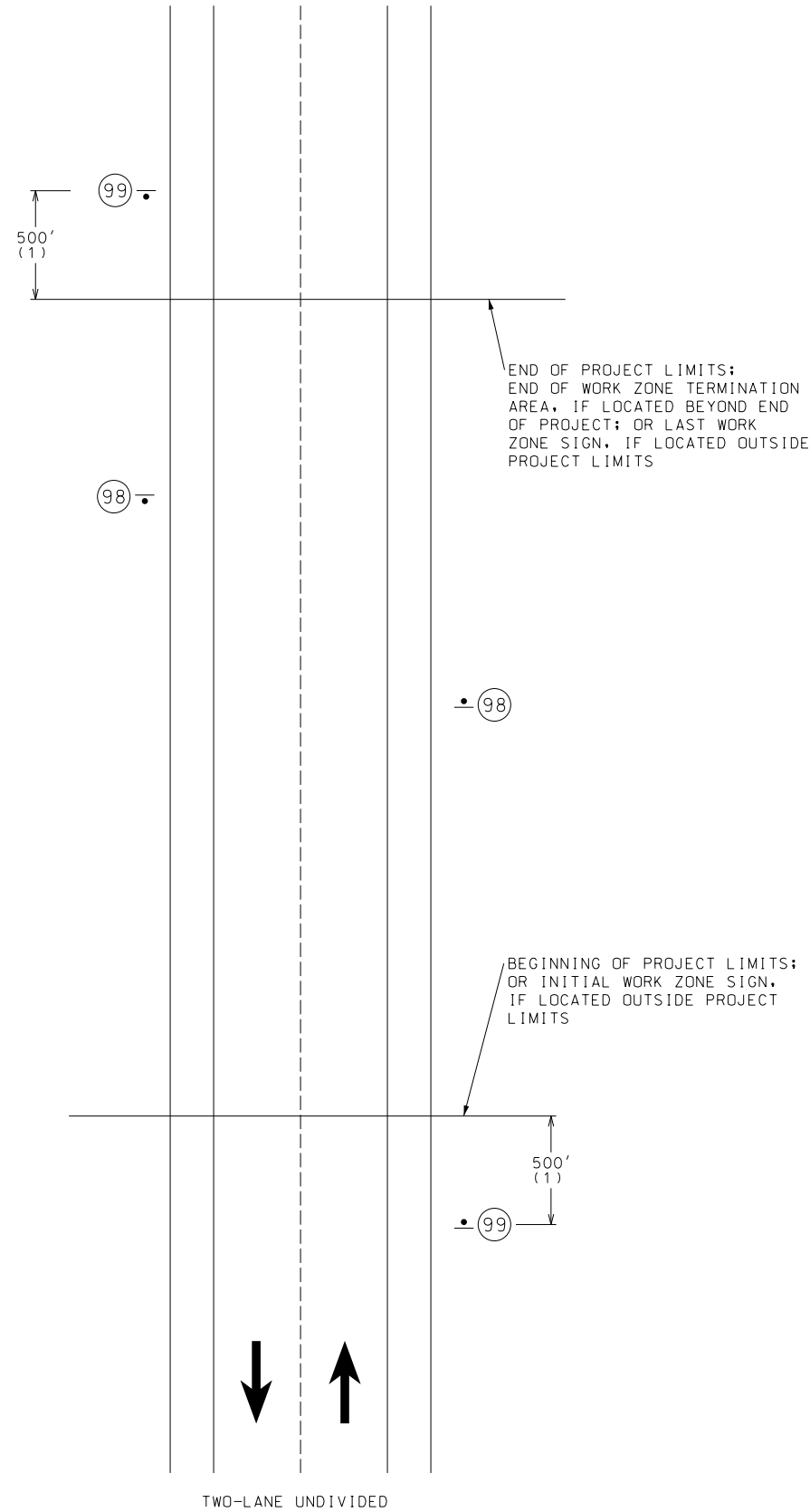
BRIDGE NO.	FILE NO.

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JACOBS ENGINEERING GROUP
HIGHLANDS PLAZA DRIVE W. SUITE 400
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PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

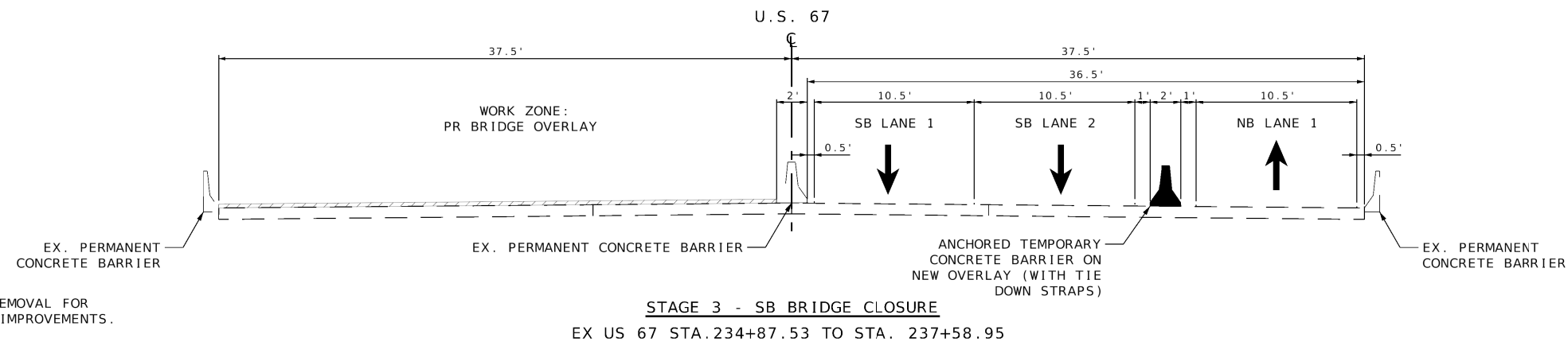
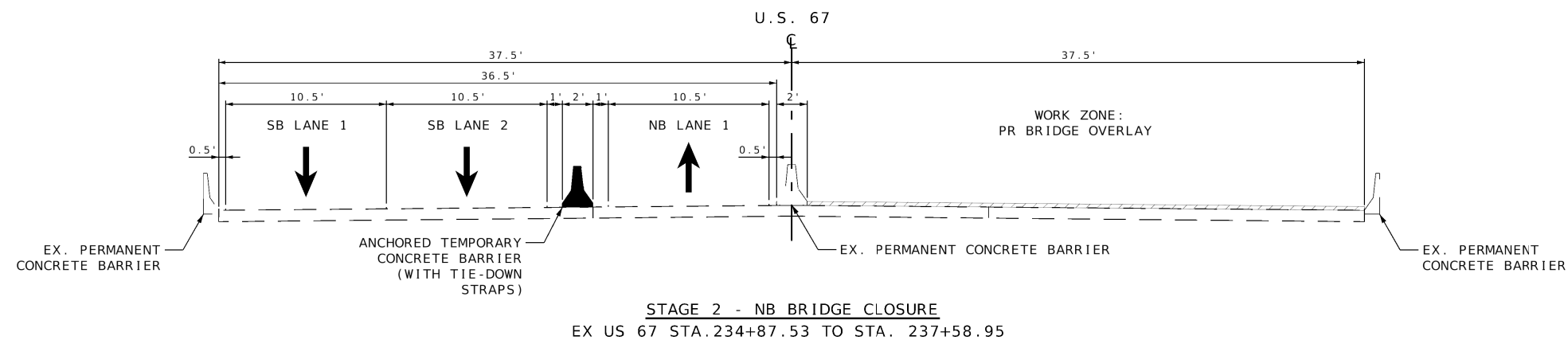
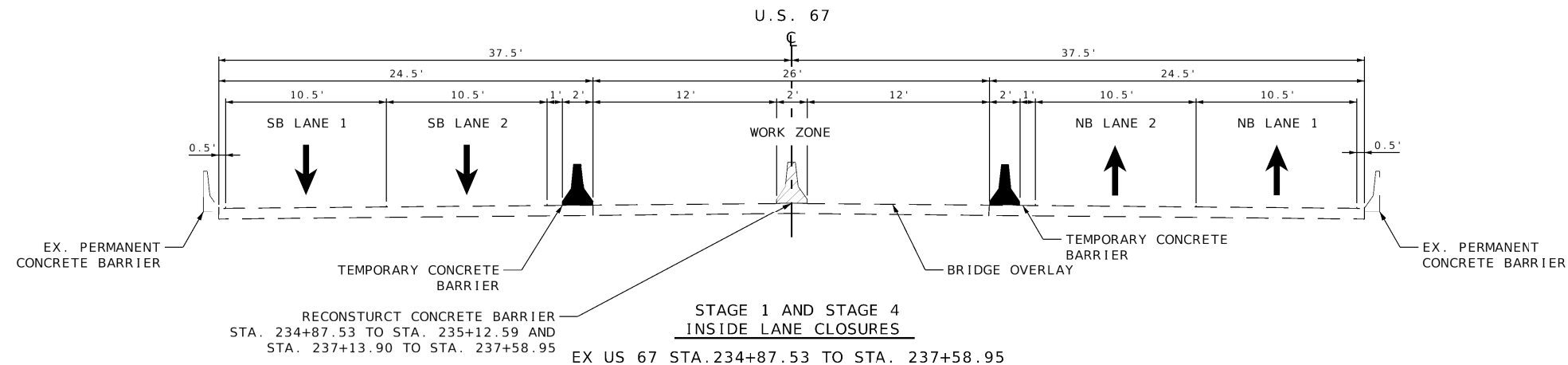
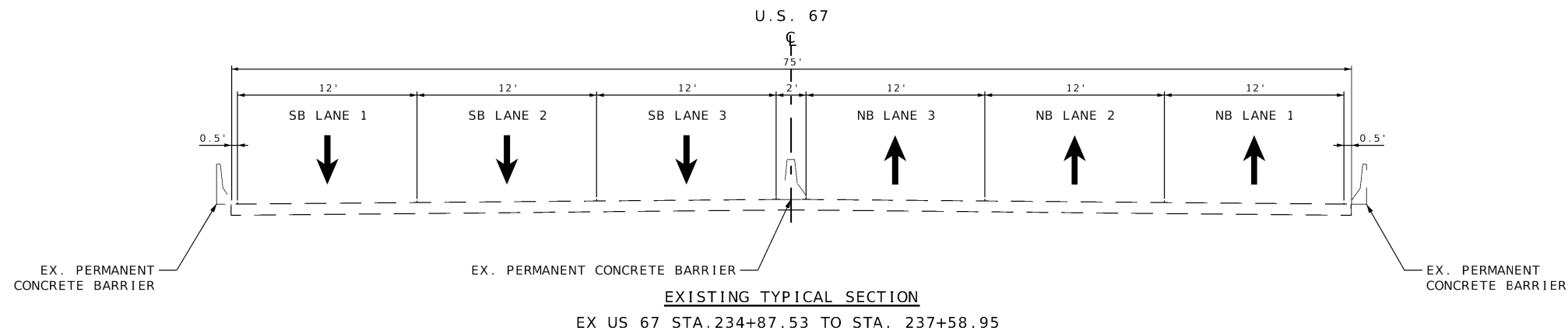
1001



(4) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

NOT TO SCALE

TRAFFIC CONTROL PLAN
(A1072 & A1074)
TYPICAL APPLICATION
SHEET 1 OF 1



NOTE
STAGE 1 WORK ZONE BARRIER WALL REMOVAL FOR CROSSOVER AND APPROACH PAVEMENT IMPROVEMENTS.

STAGE 4 WORK ZONE REPLACE THE PERMANENT TYPE B BARRIER, CRASHWORTHY END TERMINAL (MASH), 6" CONCRETE MEDIAN STRIP, AND TUBULAR MARKERS.

BRIDGE A4514
TRAFFIC CONTROL
SHEET 1 OF 29



DATE PREPARED
9/25/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 40

COUNTY ST. LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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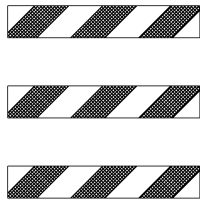
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WO20 - 1
(2)



R2 - 1
(4A)



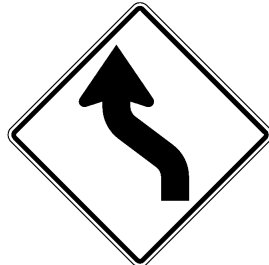
WO20 - 5
(5)



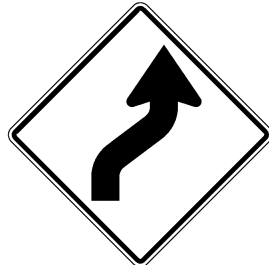
WO20 - 6a
(6)



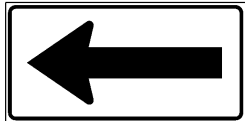
WO4 - 1aR
(6B)



WO1 - 4L
(15A)



WO1 - 4R
(15B)



WO1 - 6
(16)



MO4 - 10R
(17)



WO20 - 2
(18)



WO20 - 3
(20)



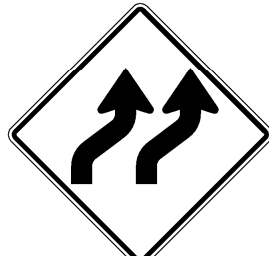
R2 - 1
(25A)



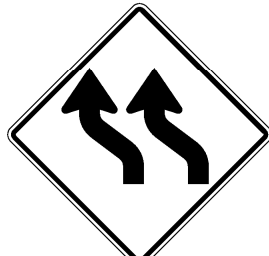
GO20 - 2
(26)



R11 - 2
(29)



WO1 - 4bR
(32A)



WO1 - 4bL
(32B)



MO4 - 8a
(52)



GO20 - 5aP
(54)



R6 - 1R
(55)



R3 - 5R
(56)



R3 - 2
(57)



R3 - 5L
(58)



R3 - 33
(59)

GENERAL NOTES:

- 1) ALL SIGNING AND ANY REQUIRED TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2) SIGN LOCATIONS TO BE APPROVED BY ENGINEER.
- 3) CMS LOCATIONS AND MESSAGES TO BE DETERMINED BY ENGINEER.
- 4) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS WITH PERMISSION OF THE ENGINEER.
- 5) ANY EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COVERED OR REMOVED.
- 6) ALL TRAFFIC CONTROL ITEMS WHICH ARE NOT INCLUDED IN THE PAY ITEMS ARE TO BE CONSIDERED INCIDENTAL.
- 7) MAINTAIN ACCESS TO DRIVEWAYS AND ENTRANCES AT ALL TIMES.
- 8) NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF TCP SIGNS AND DEVICES.
- 9) DO NOT SCALE DRAWINGS. USE DIMENSIONS.
- 10) ADVANCED WARNING RAIL SYSTEM (AWRS) TO BE INSTALLED WITH W02-1 ROAD WORK AHEAD SIGNS WHERE SIGNS ARE LOCATED ON THE MAINLINE ROADWAY.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- WORK AREA
- CHANNELIZER (TRIM-LINE)
- FLASHING ARROW PANEL
- ▲ DIRECTIONAL INDICATOR BARRICADES
- TEMPORARY PAVEMENT
- TYPE 3 BARRICADE
- TEMPORARY PAVEMENT MARKING
- ⇨ DIRECTION OF TRAFFIC

BRIDGE A4514
TRAFFIC CONTROL
SHEET 2 OF 29



DATE PREPARED
9/25/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 41

COUNTY ST. LOUIS

JOB NO. J6S3669

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)

MODOT

CERTIFICATE OF AUTHORITY

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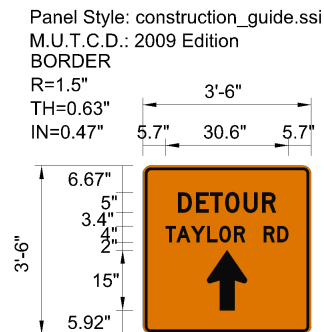
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314-531-4321 FAX: 314-531-6866

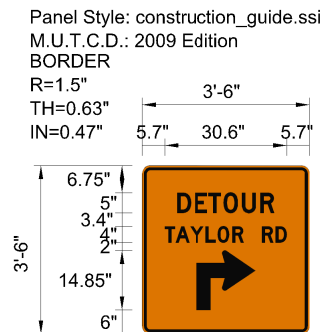
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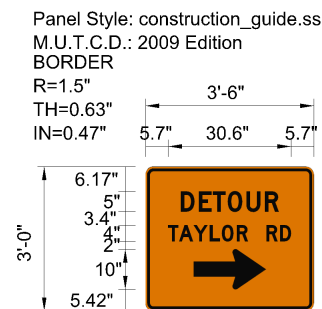
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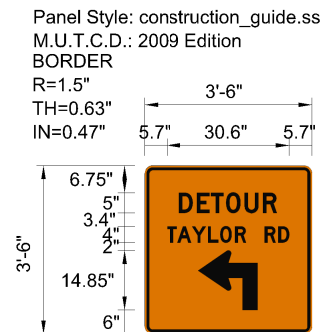
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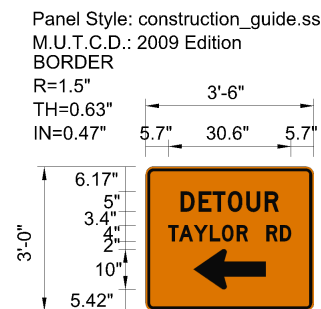
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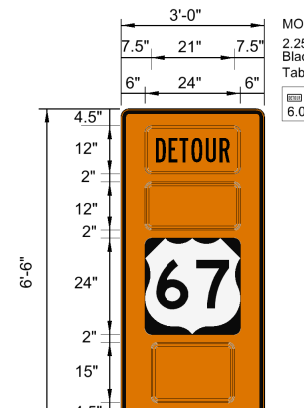
60C



60D

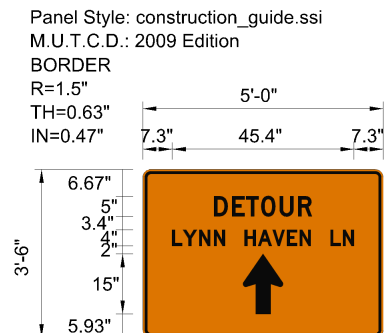


60E

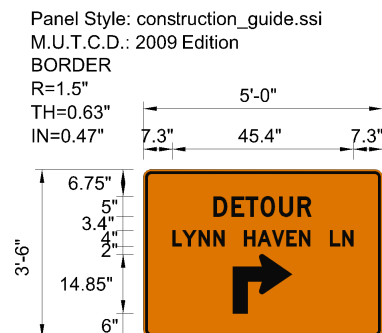


S1

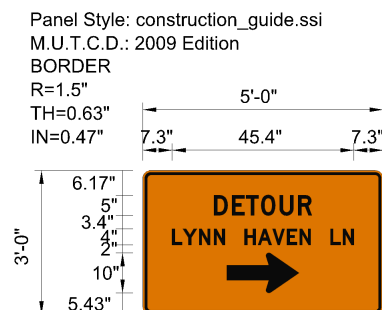
SIGN DETAILS FOR TYPICAL
NUMBERED ROUTE DETOUR ASSEMBLY
SIGNS 61A-61E



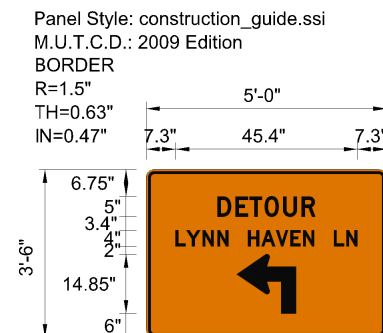
62A



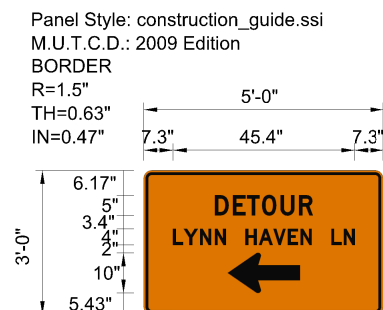
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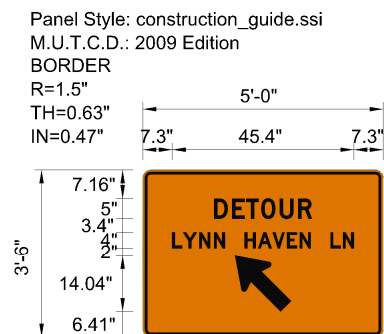
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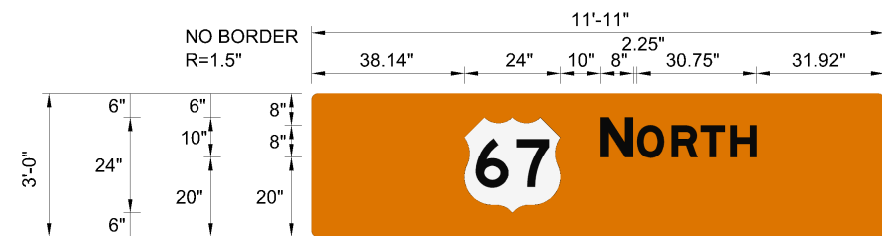
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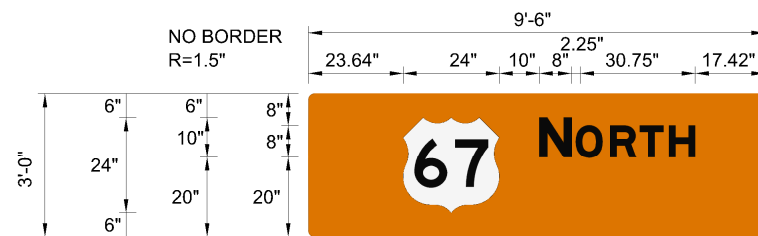
62E



62F



63



64

BRIDGE A4514
TRAFFIC CONTROL
SHEET 3 OF 29



DATE PREPARED
9/25/2024
ROUTE 67
STATE MO
DISTRICT SL
SHEET NO. 42
COUNTY ST. LOUIS
JOB NO. J6S3669
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)

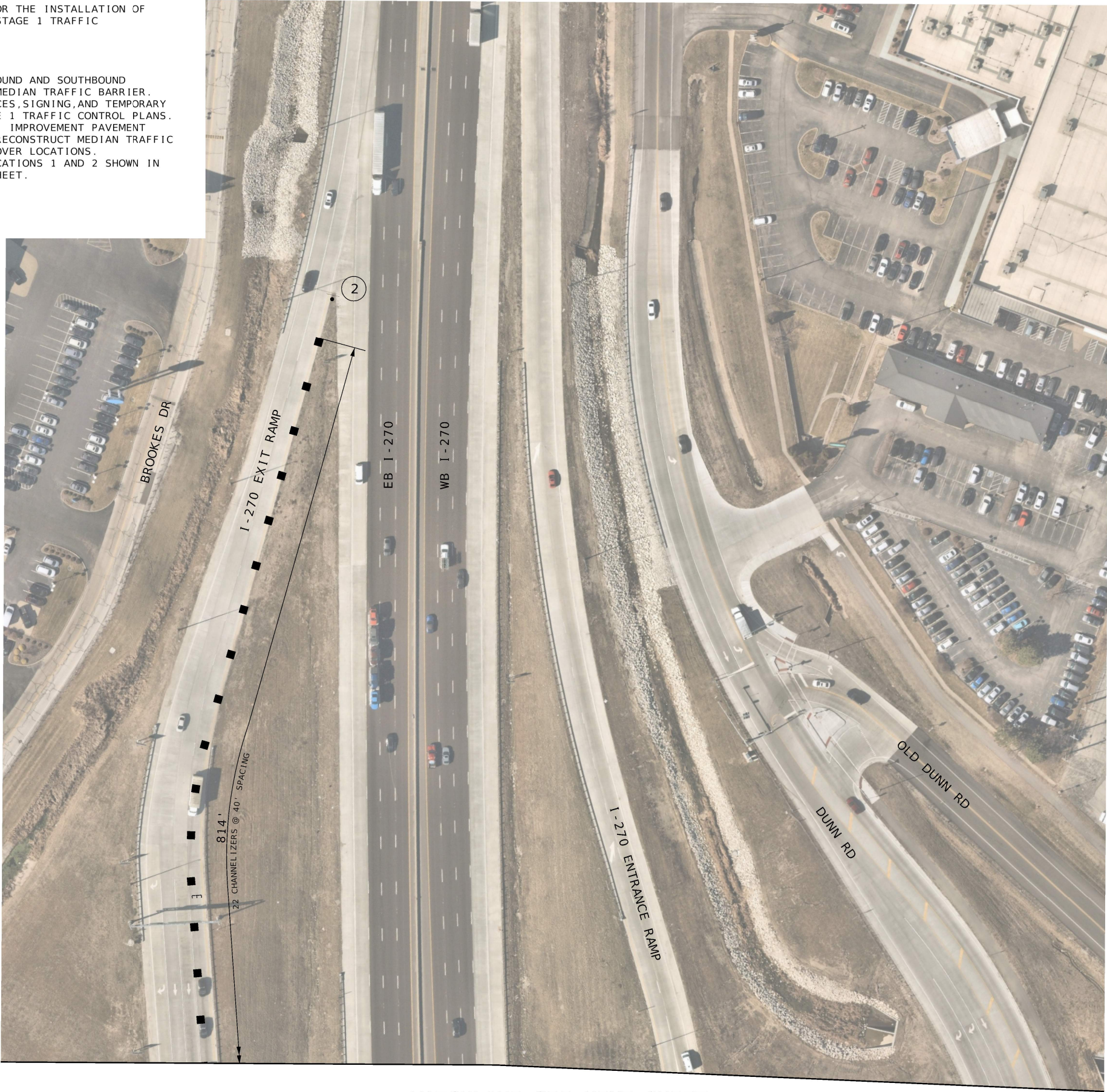
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STAGE 0-CONSTRUCTION SEQUENCE

- 1.SET UP DAILY LANE CLOSURES FOR THE INSTALLATION OF TEMPORARY STRIPING SHOWN IN STAGE 1 TRAFFIC CONTROL PLANS.

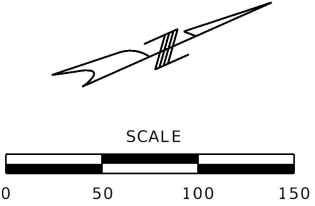
STAGE 1-CONSTRUCTION SEQUENCE

- 1.CLOSE INSIDE LANES ON NORTHBOUND AND SOUTHBOUND U.S. 67 TO REMOVE PERMANENT MEDIAN TRAFFIC BARRIER.
2.INSTALL TRAFFIC CONTROL DEVICES,SIGNING,AND TEMPORARY DEVICES AS SHOWN IN THE STAGE 1 TRAFFIC CONTROL PLANS.
3.CONSTRUCT TEMPORARY PAVEMENT, IMPROVEMENT PAVEMENT UNDER PERMANENT MEDIAN, AND RECONSTRUCT MEDIAN TRAFFIC BARRIER OUTSIDE OF THE CROSSOVER LOCATIONS.
4.MODIFY OVERHEAD SIGNS FOR LOCATIONS 1 AND 2 SHOWN IN OVERHEAD SIGN MODIFICATION SHEET.



MATCHLINE SEE NEXT SHEET
STAGE 1 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 4 OF 29



STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN E. KLEIN
NUMBER
2009030035

DATE PREPARED
9/26/2024

ROUTE
67

DISTRICT
SL

STATE
MO

SHEET NO.
43

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

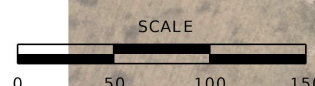
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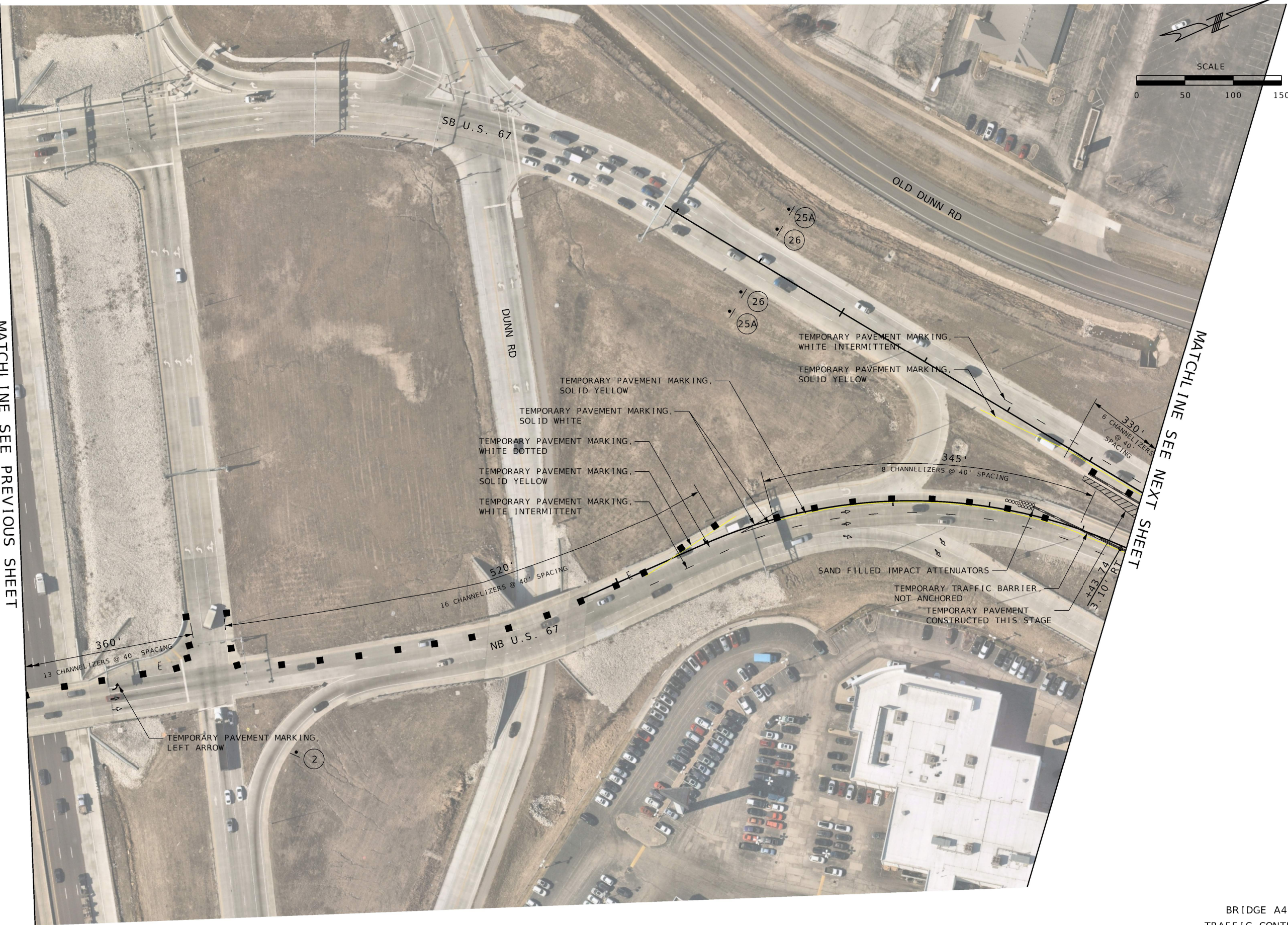
STAGE 1 - INSIDE LANE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 5 OF 29

[illegible]

MATCHLINE SEE PREVIOUS SHEET



STAGE 1 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 6 OF 29



DATE PREPARED
9/26/2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 45

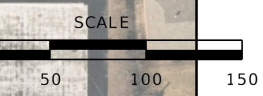
COUNTY ST. LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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JEFFERSON CITY, MO 65102
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STAGE 1 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 7 OF 29

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN E. KLEIN
NUMBER 2009030035
09/27/2024 8:38:15 AM
John E. Klein
MO.P.E. 2009030035

DATE PREPARED
9/26/2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 46
COUNTY ST. LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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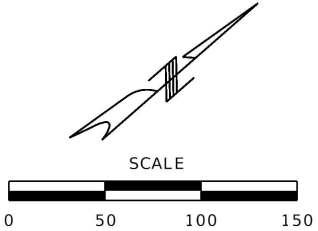
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STAGE 1 - INSIDE LANE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 8 OF 29

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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JOHN E. KLEIN
NUMBER
2009030035
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 47

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

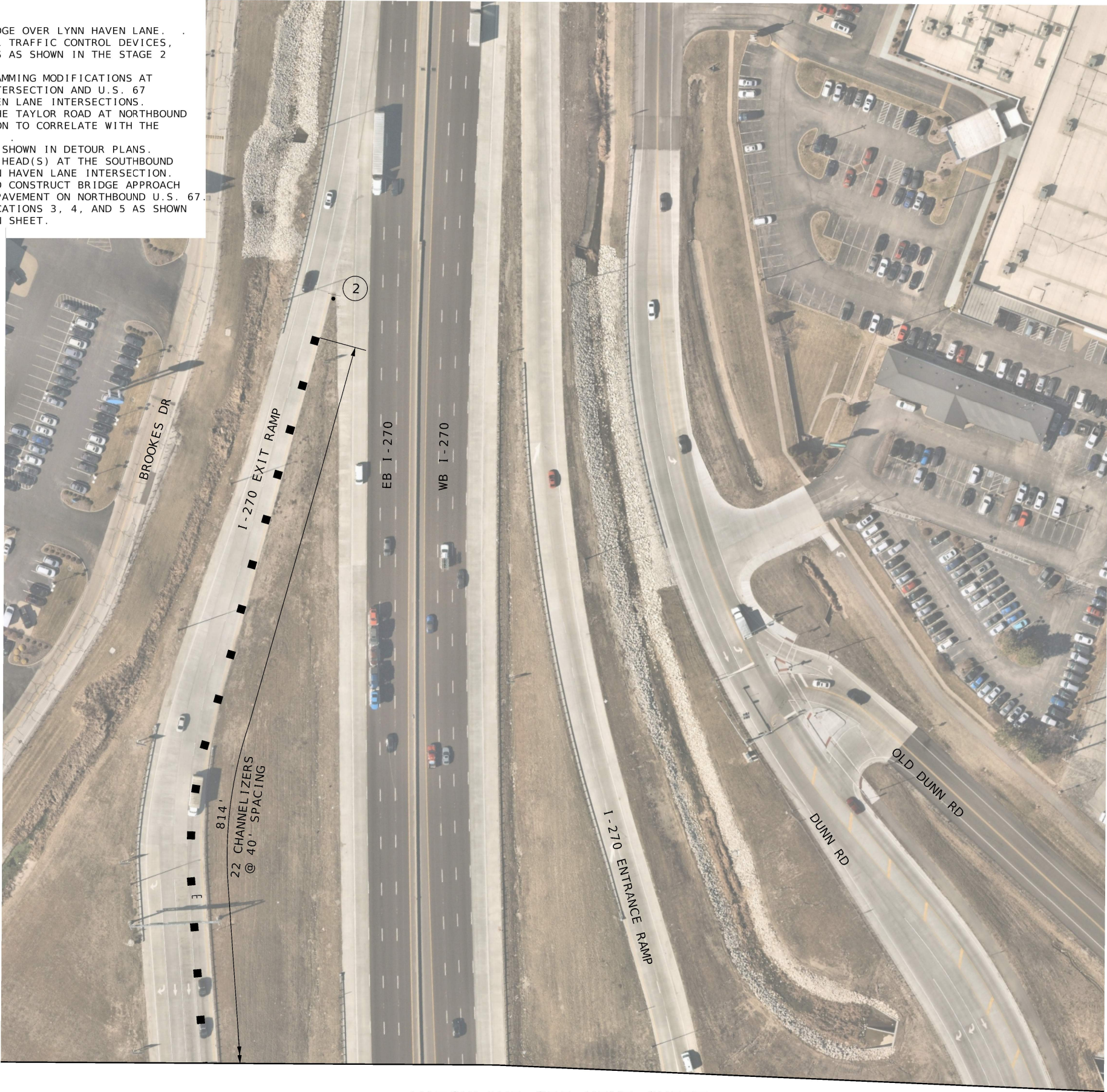
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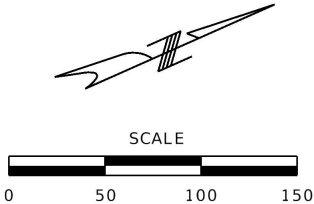
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STAGE 2-CONSTRUCTION SEQUENCE

- 1.CLOSE NORTHBOUND U.S. 67 BRIDGE OVER LYNN HAVEN LANE.
- 2.SET UP CROSSOVERS AND INSTALL TRAFFIC CONTROL DEVICES, SIGNING,AND TEMPORARY DEVICES AS SHOWN IN THE STAGE 2 TRAFFIC CONTROL PLANS.
- 3.PERFORM TRAFFIC SIGNAL PROGRAMMING MODIFICATIONS AT U.S. 67 RAMP/TAYLOR ROAD INTERSECTION AND U.S. 67 RAMP/ OLD DUNN ROAD/LYNN HAVEN LANE INTERSECTIONS. MODIFY THE SIGNAL HEADS AT THE TAYLOR ROAD AT NORTHBOUND U.S. 67 EXIT RAMP INTERSECTION TO CORRELATE WITH THE TEMPORARY LANE CONFIGURATION.
4. INSTALL TEMPORARY SIGNING AS SHOWN IN DETOUR PLANS.
- 5.COVER THE CONFLICTING SIGNAL HEAD(S) AT THE SOUTHBOUND U.S. 67 EXIT RAMP AT THE LYNN HAVEN LANE INTERSECTION.
- 6.OVERLAY NORTHBOUND BRIDGE AND CONSTRUCT BRIDGE APPROACH SLABS AND CONCRETE APPROACH PAVEMENT ON NORTHBOUND U.S. 67.
- 7.MODIFY OVERHEAD SIGNS FOR LOCATIONS 3, 4, AND 5 AS SHOWN IN OVERHEAD SIGN MODIFICATION SHEET.



MATCHLINE SEE NEXT SHEET
STAGE 2 - NB BRIDGE CLOSURE



DATE PREPARED 9/26/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 48
COUNTY ST. LOUIS	
JOB NO. J653669	
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)

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THE POWER HOUSE AT UNION STATION
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BRIDGE A4514
TRAFFIC CONTROL
SHEET 9 OF 29

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STAGE 2 - NB BRIDGE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 10 OF 29



DATE PREPARED
9/26/2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 49
COUNTY ST. LOUIS

JOB NO. J6S3669
CONTRACT ID.

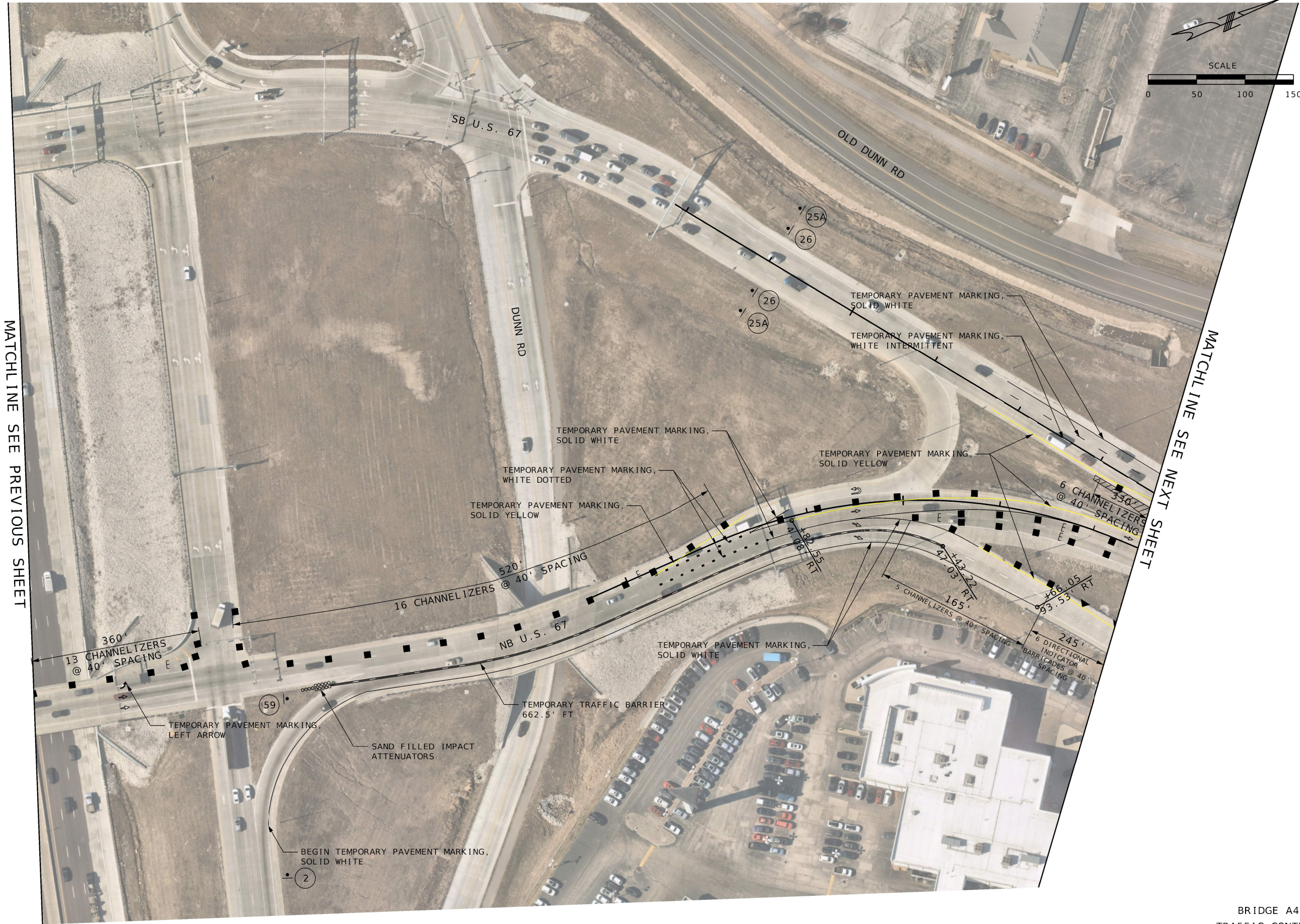
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

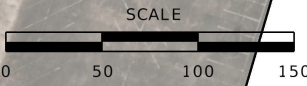
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THE POWER HOUSE AT UNION STATION
401 S. 18th St., Ste. 400
ST. LOUIS, MO 63103-2296
314-531-4321 FAX: 314-531-6866
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Created: 9/26/2024
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MATCHLINE SEE PREVIOUS SHEET

MATCHLINE SEE NEXT SHEET



DATE PREPARED
9/26/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 50

COUNTY ST. LOUIS

JOB NO. J653669

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)

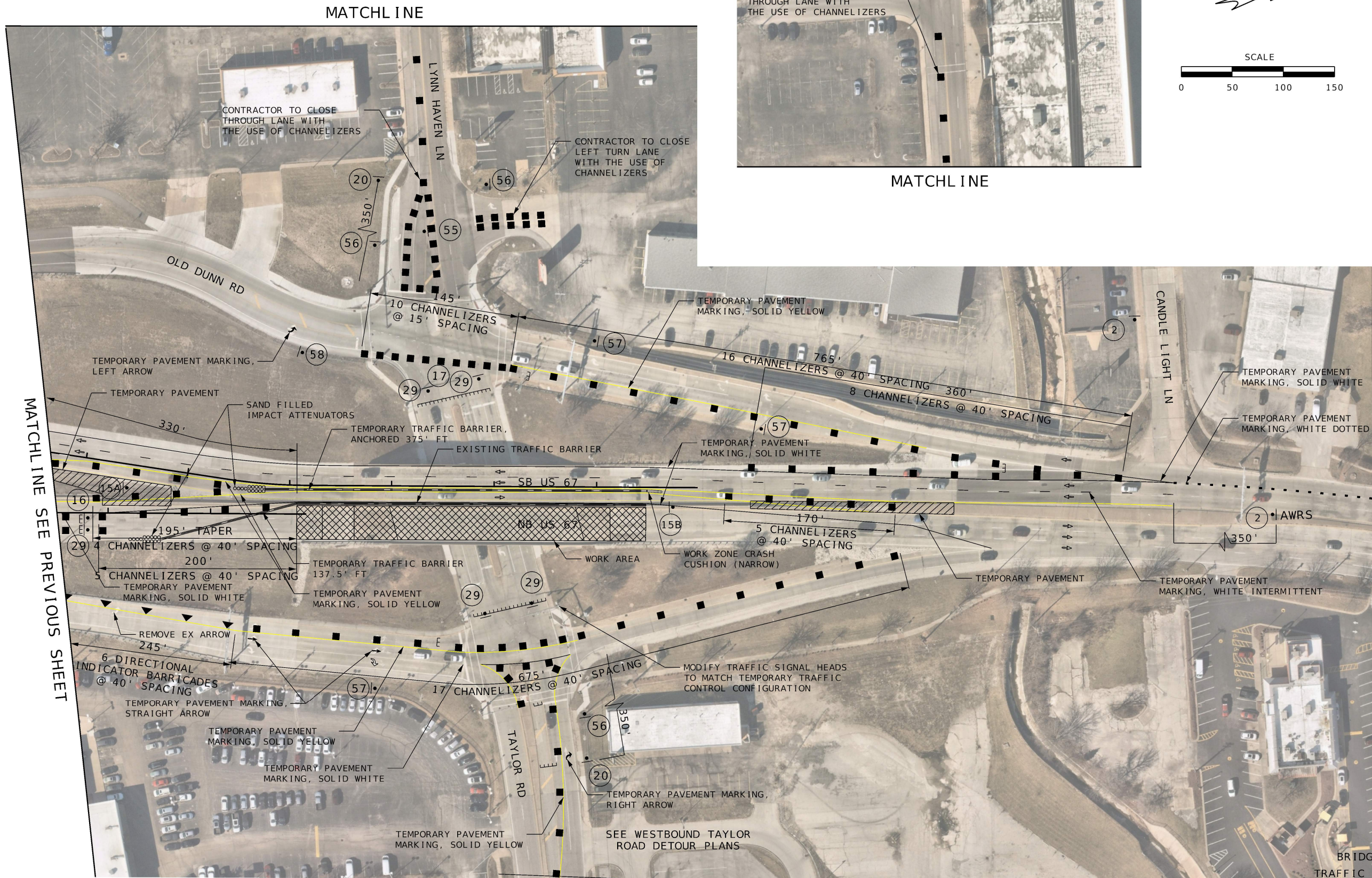
HORNER SHIFRIN

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-4321 FAX: 314-531-6866
www.HornerShifrin.com
Certificate of Authority: 000169
Expiration Date: December 31, 2024

STAGE 2 - NB BRIDGE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 11 OF 29

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



SEE EASTBOUND LYNN
HAVEN LANE DETOUR PLANS.

MATCHLINE

MATCHLINE SEE PREVIOUS SHEET

MATCHLINE SEE NEXT SHEET

STAGE 2 - NB BRIDGE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 12 OF 29



DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 51
COUNTY ST. LOUIS	
JOB NO. J6S3669	
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)

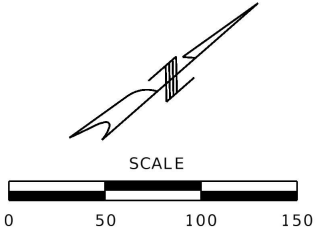
HORNER SHIFRIN

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornerShifrin.com
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Expiration Date: December 31, 2024

MATCHLINE SEE PREVIOUS SHEET




STAGE 2 - NB BRIDGE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 13 OF 29

DATE	DESCRIPTION


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-4321 FAX: 314-531-6866
www.HornorShifrin.com
Certificate of Authority: 000199
Expiration Date: December 31, 2024



JOHN E. KLEIN
NUMBER
2009030035
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 52

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

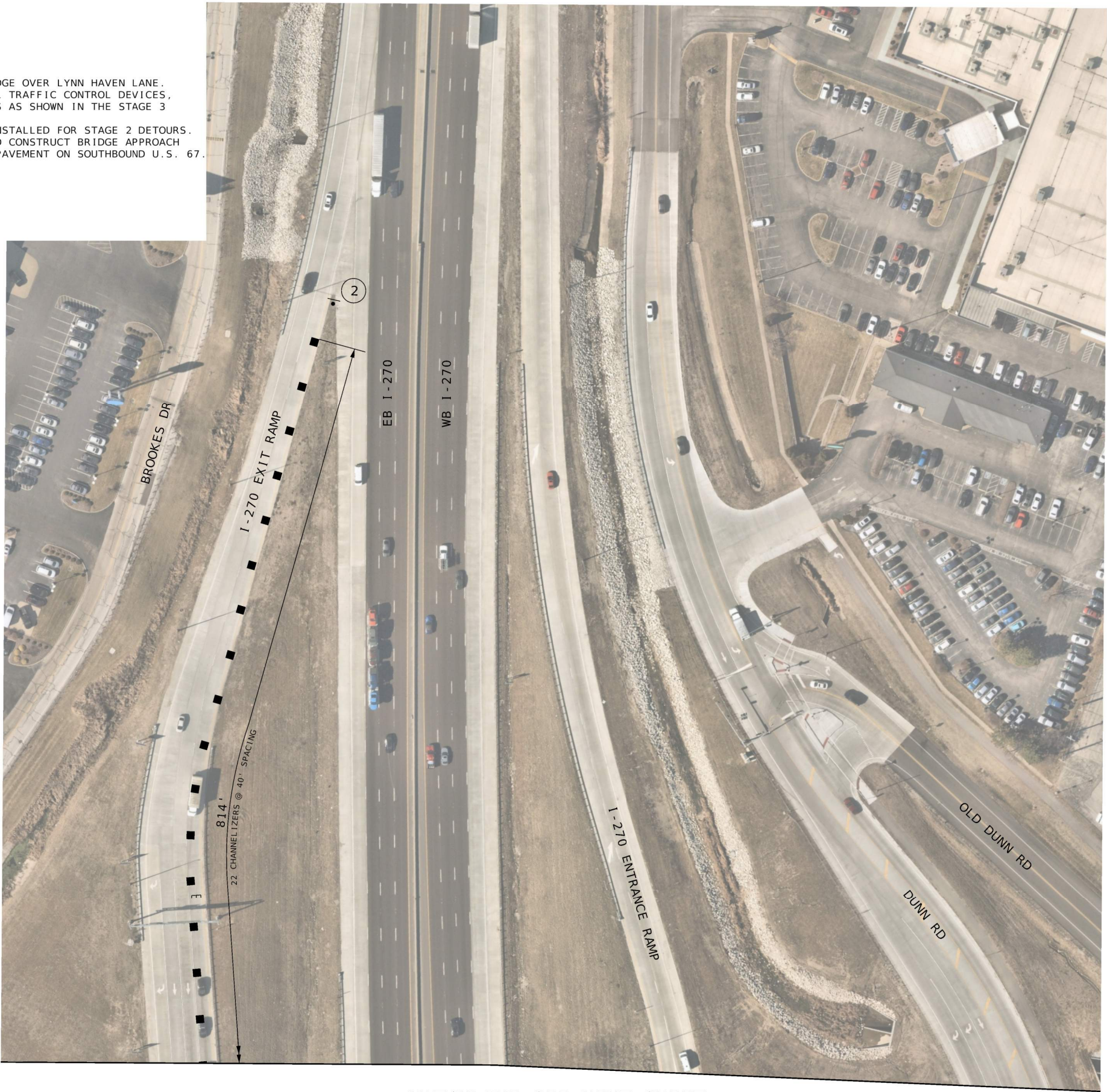
PROJECT NO.

BRIDGE NO.

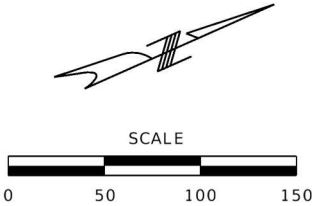
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STAGE 3-CONSTRUCTION SEQUENCE

- 1.CLOSE SOUTHBOUND U.S. 67 BRIDGE OVER LYNN HAVEN LANE.
- 2.SET UP CROSSOVERS AND INSTALL TRAFFIC CONTROL DEVICES, SIGNING,AND TEMPORARY DEVICES AS SHOWN IN THE STAGE 3 TRAFFIC CONTROL PLANS.
- 3.MAINTAIN TEMPORARY SIGNING INSTALLED FOR STAGE 2 DETOURS.
- 4.OVERLAY SOUTHBOUND BRIDGE AND CONSTRUCT BRIDGE APPROACH SLABS AND CONCRETE APPROACH PAVEMENT ON SOUTHBOUND U.S. 67.



MATCHLINE SEE NEXT SHEET
STAGE 3 - SB BRIDGE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 14 OF 29

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN E. KLEIN
NUMBER
2009030035

DATE PREPARED
9/25/2024

ROUTE
67

DISTRICT
SL

COUNTY
ST. LOUIS

JOB NO.
J6S3669

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)

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornorShifrin.com
Certificate of Authority: 000199
Expiration Date: December 31, 2024

...\\053-057_TC_14-18_J6S3669_150_A4514_STG3.dgn 2:10:21 PM 9/25/2024

MATCHLINE SEE PREVIOUS SHEET



STAGE 3 - SB BRIDGE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 15 OF 29

MATCHLINE SEE NEXT SHEET



DATE PREPARED
9/26/2024

ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 54

COUNTY ST. LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

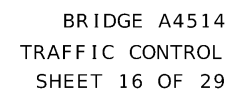
105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

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STAGE 3 - SB BRIDGE CLOSURE

[illegible]

An aerial photograph of a road construction site. A road runs vertically through the center of the image. To the left of the road is a parking lot with several cars parked. To the right of the road is a grassy area with some trees and a building. A black arrow points from the text 'CONTRACTOR TO CLOSE THROUGH LANE WITH THE USE OF CHANNELIZERS' to a series of black channelizers placed across the road. The channelizers are arranged in a line, closing the road to traffic. The road has a yellow center line and white edge lines. The parking lot has white parking lines. The grassy area has some trees and a building. The building is a large, light-colored structure with a flat roof. The sky is clear and blue.

[illegible]

MATCHLINE SEE NEXT SHEET

BRIDGE A4514
TRAFFIC CONTROL
SHEET 17 OF 29

DATE PREPARED	
9/26/2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	56
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

**HORNER
SHIFRIN**

THE POWER HOUSE AT UNION STATION

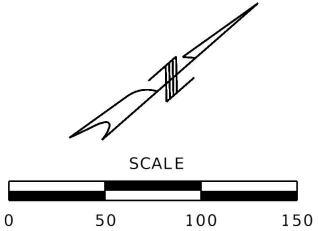
401 S. 18th St., Ste. 400
ST. LOUIS, MO 63103-2296
314-531-4321 FAX: 314-531-6966
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Certificate of Authority: 000159
Expiration Date: December 31, 2024

MATCHLINE SEE PREVIOUS SHEET



STAGE 3 - SB BRIDGE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 18 OF 29

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



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SHIFRIN**

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DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 57

COUNTY
ST. LOUIS

JOB NO.
J6S3669

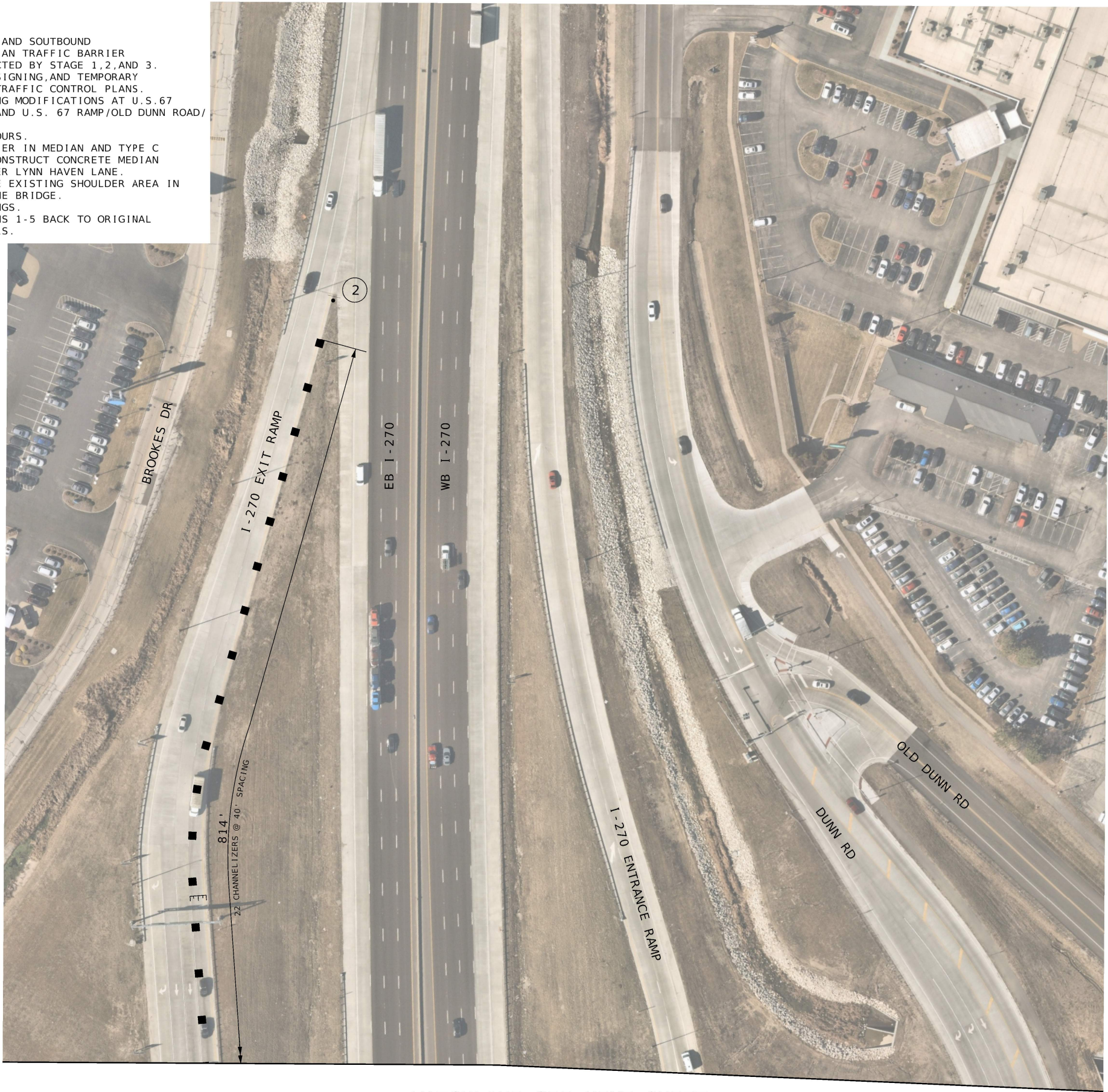
CONTRACT ID.

PROJECT NO.

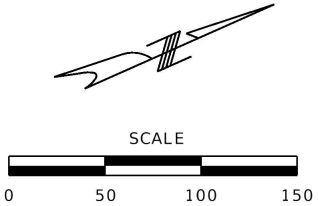
BRIDGE NO.

STAGE 4-CONSTRUCTION SEQUENCE

- 1. CLOSE INSIDE LANES ON NORTHBOUND AND SOUTBOUND U.S. 67 TO INSTALL PERMANENT MEDIAN TRAFFIC BARRIER AND ANY OTHER APPURTENANCES IMPACTED BY STAGE 1,2,AND 3.
- 2. INSTALL TRAFFIC CONTROL DEVICES,SIGNING,AND TEMPORARY DEVICES AS SHOWN IN THE STAGE 4 TRAFFIC CONTROL PLANS.
- 3. PERFORM TRAFFIC SIGNAL PROGRAMMING MODIFICATIONS AT U.S.67 RAMP/TAYLOR ROAD INTERSECTIONS AND U.S. 67 RAMP/OLD DUNN ROAD/ LYNN HAVEN LANE INTERSECTION.
- 4. REMOVE TEMPORARY SIGNING FOR DETOURS.
- 5. CONSTRUCT PERMANENT TRAFFIC BARRIER IN MEDIAN AND TYPE C CRASHWORTHY END TERMINAL AND RECONSTRUCT CONCRETE MEDIAN STRIP NORTH OF U.S. 67 BRIDGE OVER LYNN HAVEN LANE.
- 6. REMOVE TEMPORARY PAVEMENT OUTSIDE EXISTING SHOULDER AREA IN GORE AREA SOUTH OF LYNN HAVEN LANE BRIDGE.
- 7. INSTALL PERMANENT PAVEMENT MARKINGS.
- 8. MODIFY OVERHEAD SIGNS AT LOCATIONS 1-5 BACK TO ORIGINAL CONFIGURATION WITH EXISTING PANELS.



MATCHLINE SEE NEXT SHEET
STAGE 4 - INSIDE LANE CLOSURE



DATE PREPARED 9/26/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 58
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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BRIDGE A4514
TRAFFIC CONTROL
SHEET 19 OF 29

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MATCHLINE SEE PREVIOUS SHEET



MATCHLINE SEE NEXT SHEET

STAGE 4 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 20 OF 29

STATE OF MISSOURI
JOHN E. KEES
LICENSE NO. 200900035
REGISTERED PROFESSIONAL ENGINEER
9/25/2024

DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 59
COUNTY ST. LOUIS	
JOB NO. J653669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

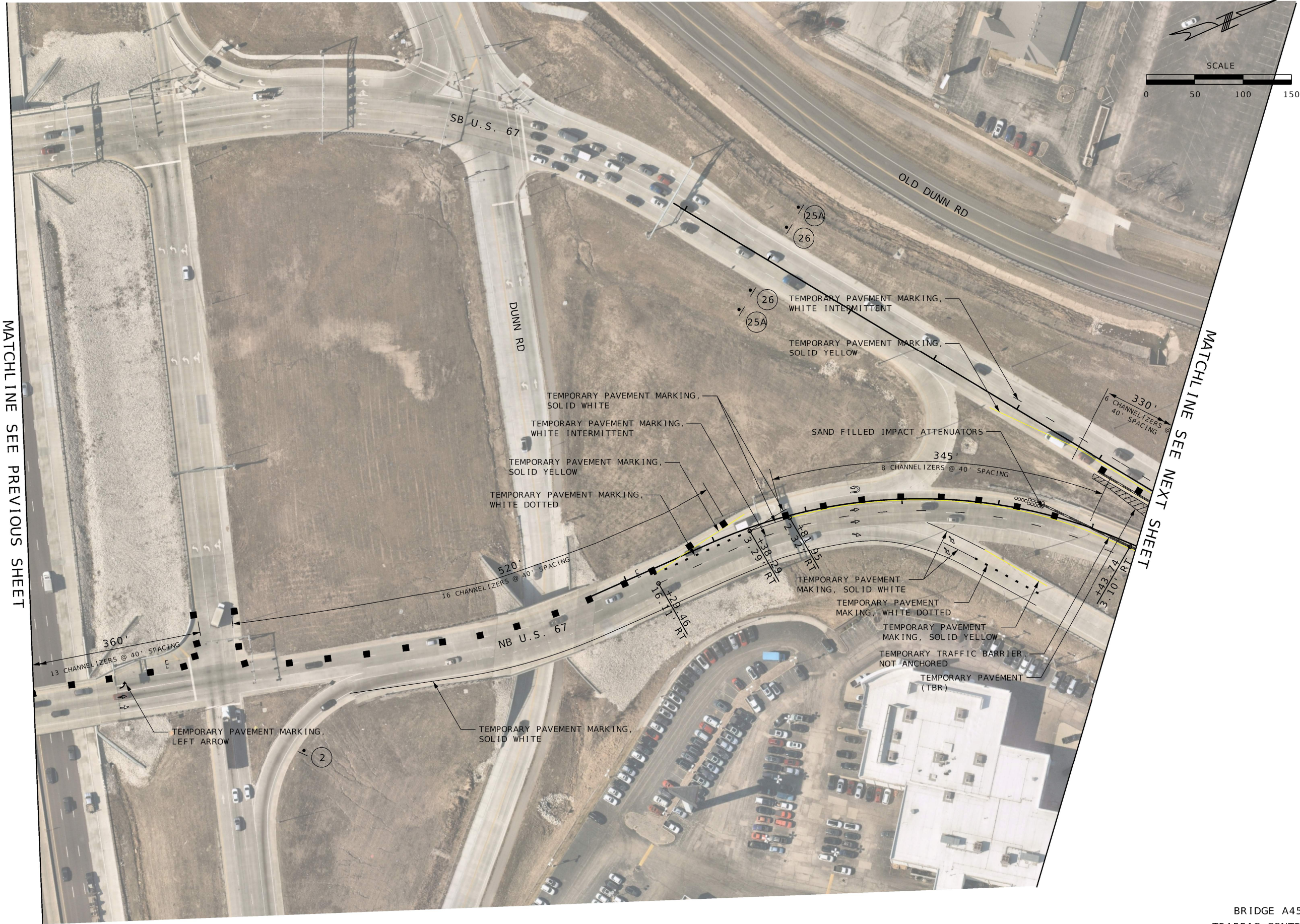
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HORNER SHIFRIN

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
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MATCHLINE SEE PREVIOUS SHEET

MATCHLINE SEE NEXT SHEET

STAGE 4 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 21 OF 29



DATE PREPARED 9/26/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 60
COUNTY ST. LOUIS	
JOB NO. J653669	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

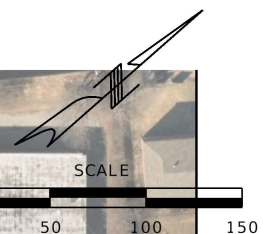
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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MATCHLINE SEE NEXT SHEET

MATCHLINE SEE PREVIOUS SHEET

STAGE 4 - INSIDE LANE CLOSURE

BRIDGE A4514
TRAFFIC CONTROL
SHEET 22 OF 29

DATE PREPARED
9/26/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 61
COUNTY ST. LOUIS	
JOB NO. J6S3669	
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)

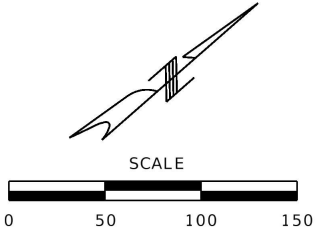
HORNER SHIFRIN

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ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6886
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Expiration Date: December 31, 2024

MATCHLINE SEE PREVIOUS SHEET



STAGE 4 - INSIDE LANE CLOSURE



BRIDGE A4514
TRAFFIC CONTROL
SHEET 23 OF 29

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
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Expiration Date: December 31, 2024



DATE PREPARED 9/26/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 62
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

TAYLOR RD EAST DETOUR (STAGE 2 AND 3)



42" X 42"
60A



42" X 42"
60B



42" X 36"
60C



42" X 42"
60D



42" X 36"
60E

BRIDGE A4514
TRAFFIC CONTROL
SHEET 24 OF 29



DATE PREPARED
9/25/2024
ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 63
COUNTY ST. LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

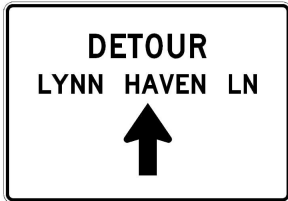
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

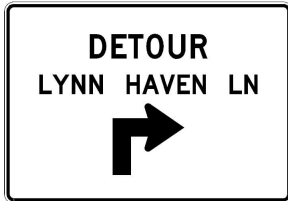
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
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Expiration Date: December 31, 2024

LYNN HAVEN LN WEST DETOUR (STAGE 2 AND 3)



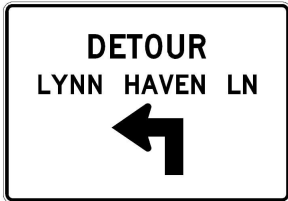
60" X 42"
62A



60" X 42"
62B



60" X 36"
62C



60" X 42"
62D



60" X 36"
62E

BRIDGE A4514
TRAFFIC CONTROL
SHEET 25 OF 29



DATE PREPARED 9/25/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 64
COUNTY ST. LOUIS	
JOB NO. J6S3669	
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)

HORNER SHIFRIN

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NORTHBOUND U.S. 67 DETOUR (STAGE 2 AND 3)



DETOUR

MOH-8

NORTH

MS-1

67

MT-4

↑

MS-3

61A

DETOUR

MOH-8

NORTH

MS-1

67

MT-4

↗

MS-1R

61B

DETOUR

MOH-8

NORTH

MS-1

67

MT-4

→

MS-1

61C

DETOUR

MOH-8

NORTH

MS-1

67

MT-4

↖

MS-1L

61D

DETOUR

MOH-8

NORTH

MS-1

67

MT-4

←

MS-1

61E

BRIDGE A4514
TRAFFIC CONTROL
SHEET 26 OF 29

STATE OF MISSOURI

JOHN E. KCEID

2009000035

REGISTERED PROFESSIONAL ENGINEER

9/25/2024

DATE PREPARED

9/25/2024

ROUTE

67

STATE

MO

DISTRICT

SL

SHEET NO.

65

COUNTY

ST. LOUIS

JOB NO.

J6S3669

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)

HORNER SHIFRIN

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ST. LOUIS, MO 63103-2296

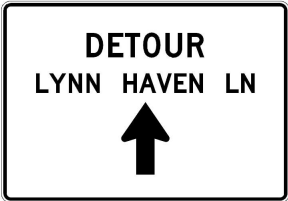
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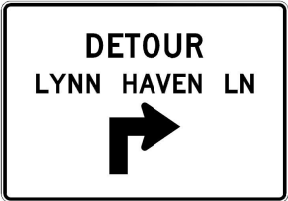
Expiration Date: December 31, 2024

LYNN HAVEN LN WEST DETOUR



60" X 42"

62A



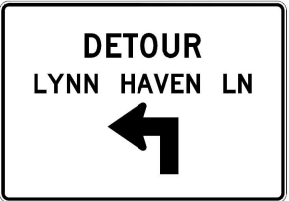
60" X 42"

62B



60" X 36"

62C



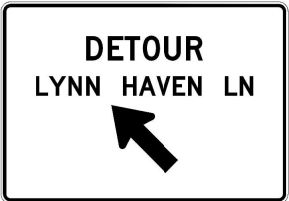
60" X 42"

62D



60" X 36"

62E



60" X 42"

62F

BRIDGE A4514
TRAFFIC CONTROL
SHEET 27 OF 29



DATE PREPARED 9/25/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 66
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

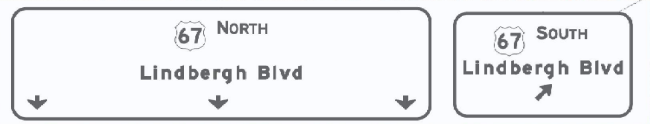
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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HORNER SHIFRIN

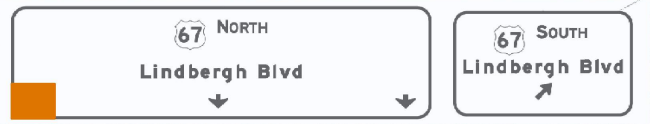
THE POWER HOUSE AT UNION STATION
1001 MARKET STREET
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornerShifrin.com
Certificate of Authority: 000169
Expiration Date: December 31, 2024

OVERHEAD SIGN MODIFICATION (ALL STAGES)

EXISTING



MODIFICATION

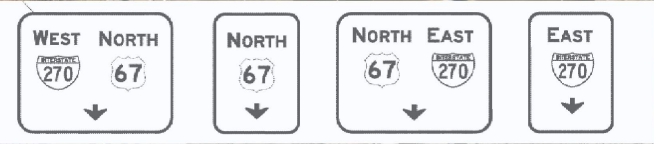


(COVER)

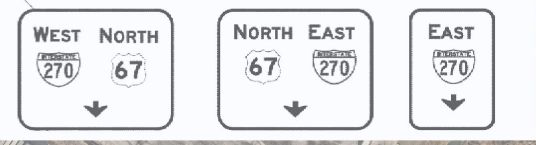
LOCATION 1

LOCATION 2

EXISTING



MODIFICATION



NOTES:

LOCATION 1

- 1) LEFT THROUGH ARROW TO BE COVERED ON NORTH U.S. 67 LINDBERGH BLVD OVERHEAD SIGN.
- 2) CONTRACTOR TO TEMPORARILY REMOVE NORTH U.S. 67 SIGN FROM TRUSS.

LOCATION 4

- 3) SHIFT WEST 270/U.S. 67 OVERHEAD SIGN TO LOCATION OF NORTH U.S. 67 OVERHEAD SIGN.
- 4) AFTER STAGE 4, CONTRACTOR TO REPLACE EXISTING NORTH U.S. 67 SIGN ON TRUSS IN ORIGINAL LOCATION.

BRIDGE A4514
TRAFFIC CONTROL
SHEET 28 OF 29



DATE PREPARED
9/25/2024
ROUTE 67 STATE MO
DISTRICT SL SHEET NO. 67
COUNTY ST. LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

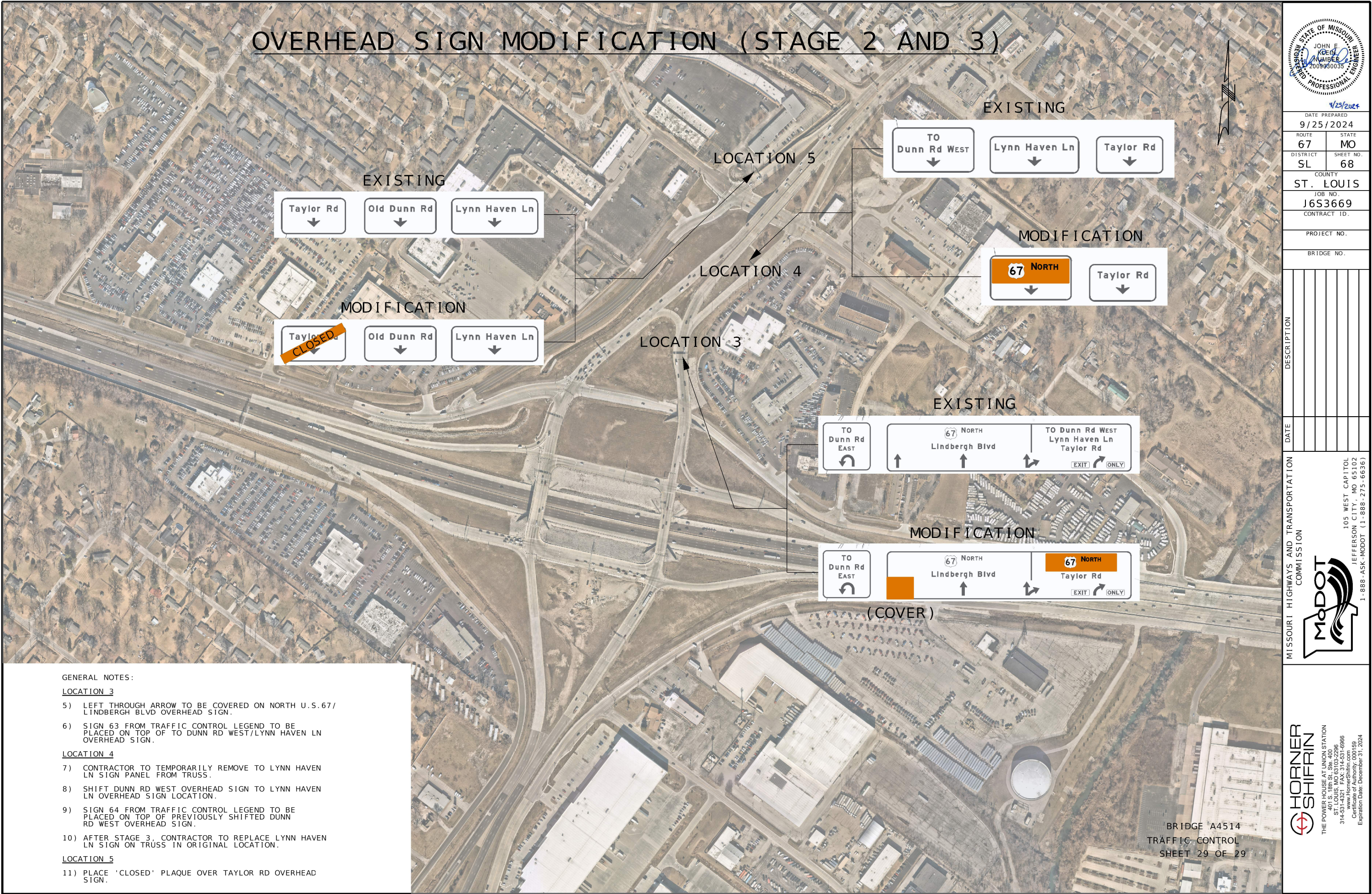
DESCRIPTION	DATE

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

HORNER SHIFRIN
THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornerShifrin.com
Certificate of Authority: 000169
Expiration Date: December 31, 2024

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OVERHEAD SIGN MODIFICATION (STAGE 2 AND 3)



GENERAL NOTES:

- LOCATION 3**
- 5) LEFT THROUGH ARROW TO BE COVERED ON NORTH U.S. 67/ LINDBERGH BLVD OVERHEAD SIGN.
 - 6) SIGN 63 FROM TRAFFIC CONTROL LEGEND TO BE PLACED ON TOP OF TO DUNN RD WEST/LYNN HAVEN LN OVERHEAD SIGN.
- LOCATION 4**
- 7) CONTRACTOR TO TEMPORARILY REMOVE TO LYNN HAVEN LN SIGN PANEL FROM TRUSS.
 - 8) SHIFT DUNN RD WEST OVERHEAD SIGN TO LYNN HAVEN LN OVERHEAD SIGN LOCATION.
 - 9) SIGN 64 FROM TRAFFIC CONTROL LEGEND TO BE PLACED ON TOP OF PREVIOUSLY SHIFTED DUNN RD WEST OVERHEAD SIGN.
 - 10) AFTER STAGE 3, CONTRACTOR TO REPLACE LYNN HAVEN LN SIGN ON TRUSS IN ORIGINAL LOCATION.
- LOCATION 5**
- 11) PLACE 'CLOSED' PLAQUE OVER TAYLOR RD OVERHEAD SIGN.



DATE PREPARED
9/25/2024

ROUTE
67

STATE
MO

DISTRICT
SL

SHEET NO.
68

COUNTY
ST. LOUIS

JOB NO.
J6S3669

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)

HORNER SHIFRIN

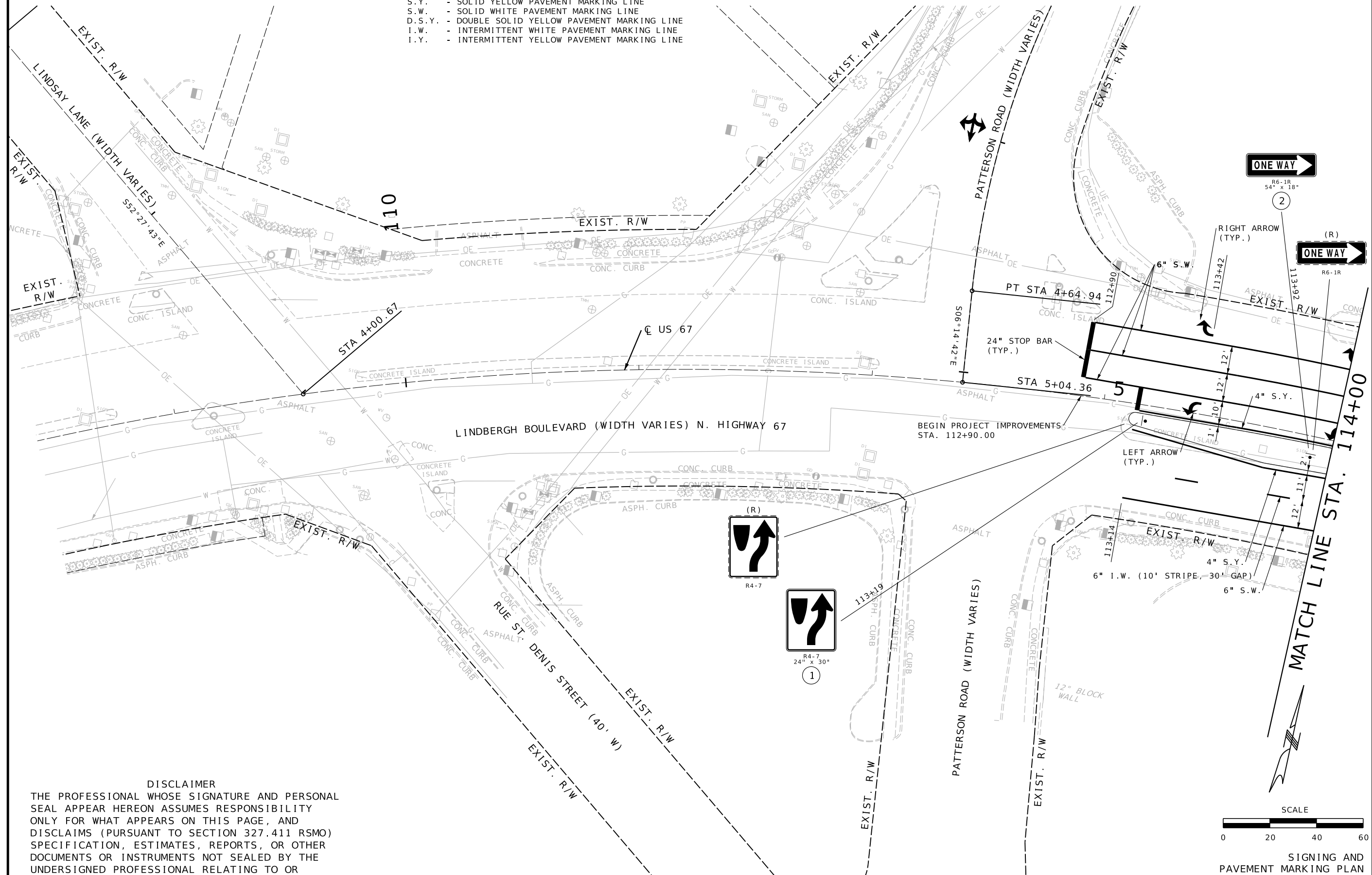
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ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornerShifrin.com
Certificate of Authority: 000169
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BRIDGE A4514
TRAFFIC CONTROL
SHEET 29 OF 29

NOTE: ALL STOP BARS AND ARROWS SHALL BE THERMOPLASTIC.

LEGEND

- S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
S.W. - SOLID WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE



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09/26/2024 5:04:25 PM
Richard S. Baum
MO PE E-24320

DATE PREPARED
23-SEP-2024

ROUTE	STATE
67	MO

DISTRICT	SHEET NO.
SL	69

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

BRIDGE NO.

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JTHO

**ENGINEERING
LAZARUS
MISSISSAUGA
(314) 441-1111
OFFICE**

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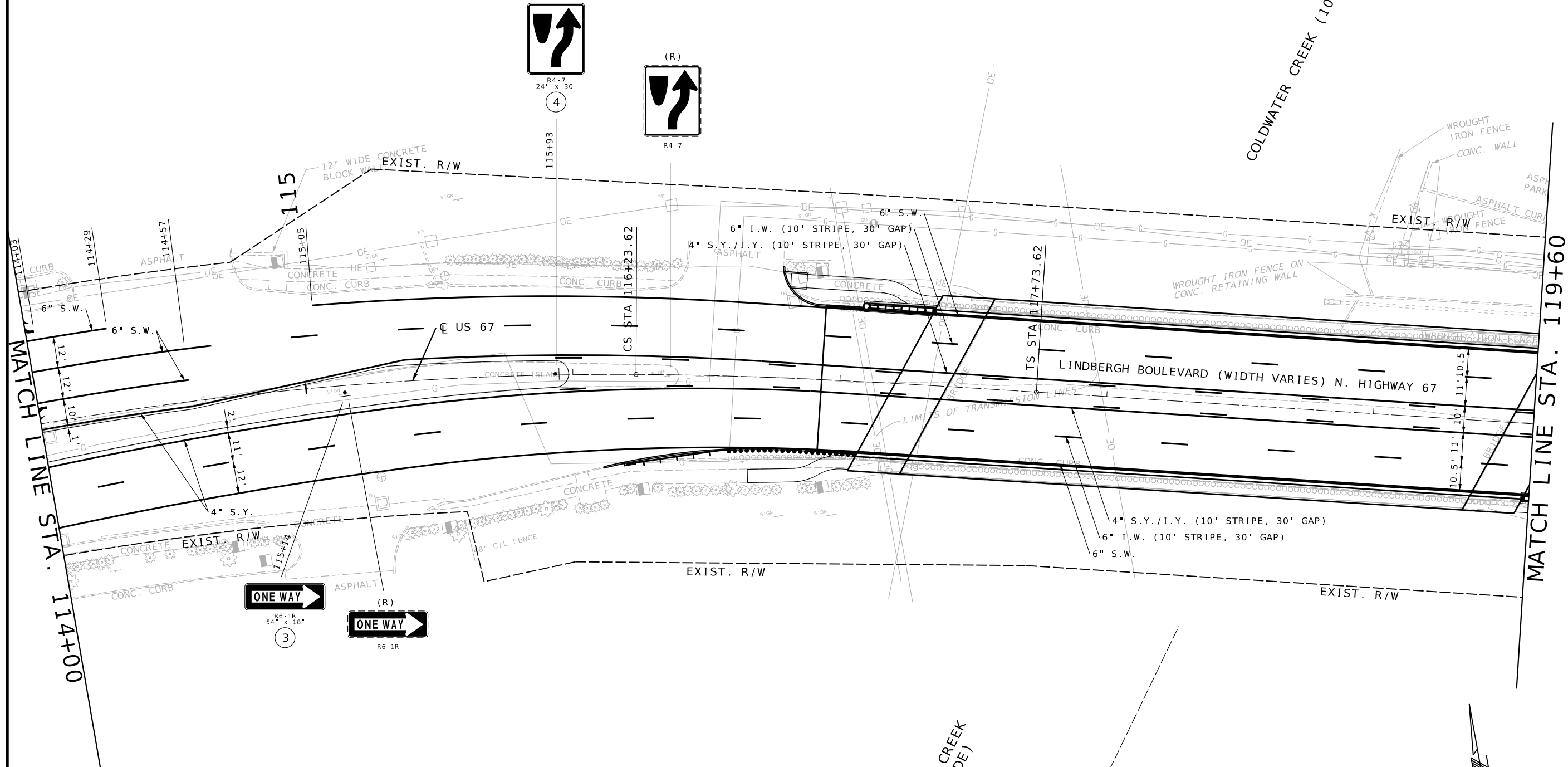
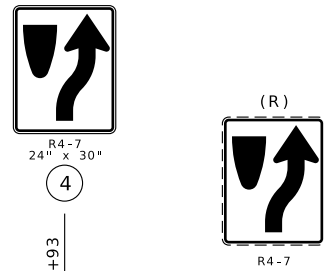
JA
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1001

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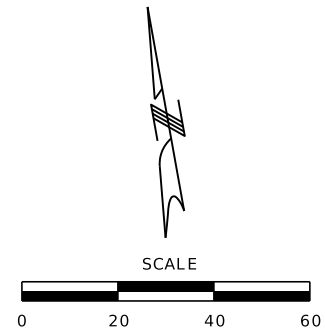
NOTE: ALL STOP BARS AND ARROWS SHALL BE THERMOPLASTIC.

- LEGEND**
- S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
 - S.W. - SOLID WHITE PAVEMENT MARKING LINE
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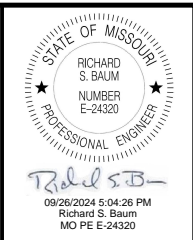


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SIGNING AND
PAVEMENT MARKING PLAN
(A1072)
STA. 114+00 TO STA. 119+60
SHEET 2 OF 7



DATE PREPARED 23-SEP-2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 70
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

MoDOT

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

Jacobs

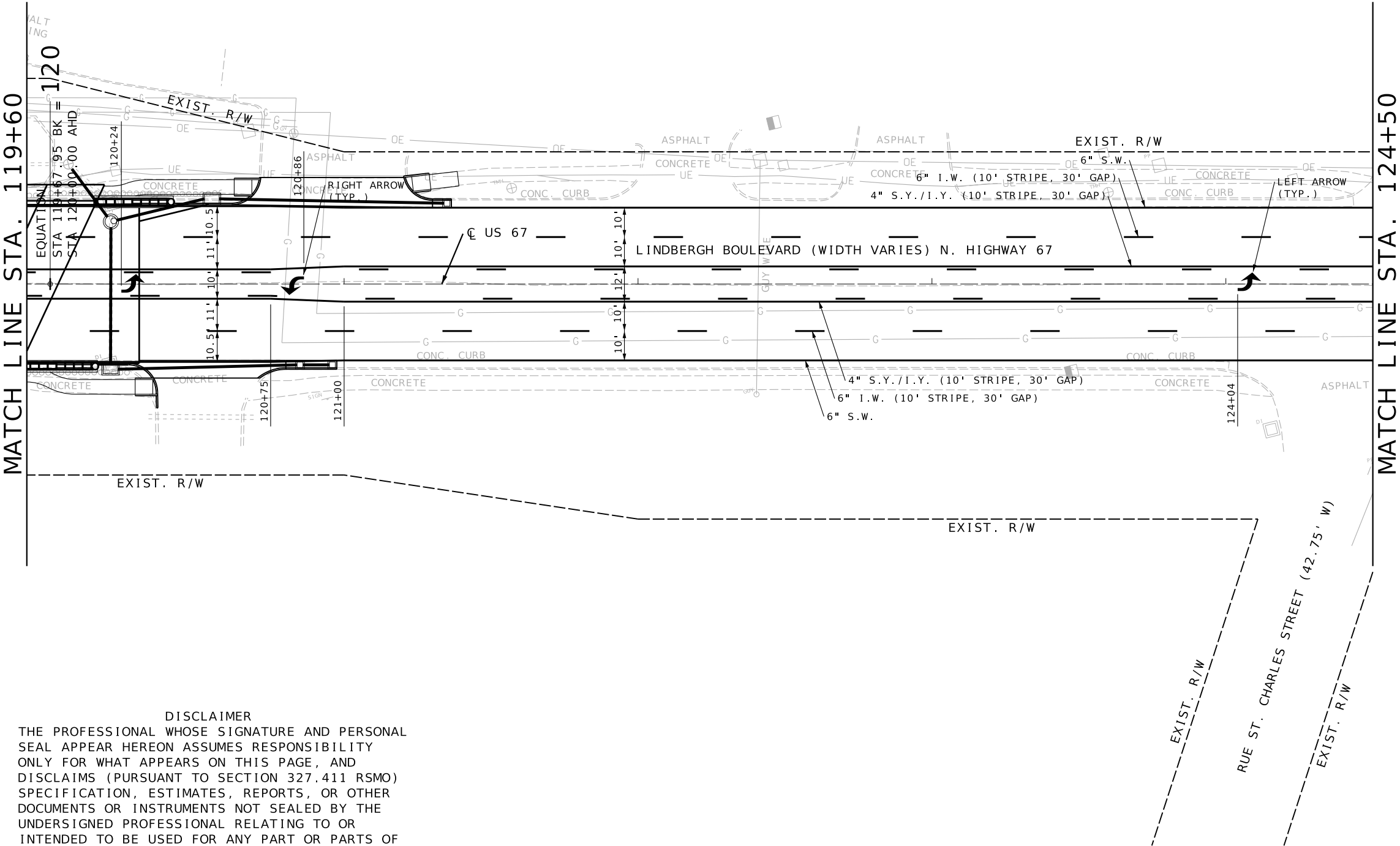
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 350-1000
FAX: (314) 350-1001
CERTIFICATE OF AUTHORITY #00704

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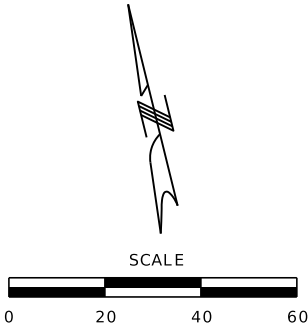
NOTE: ALL STOP BARS AND ARROWS SHALL BE THERMOPLASTIC.

LEGEND

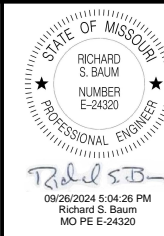
- S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
- S.W. - SOLID WHITE PAVEMENT MARKING LINE
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SIGNING AND
PAVEMENT MARKING PLAN
(A1072)
STA. 119+60 TO STA. 124+50
SHEET 3 OF 7



DATE PREPARED 23-SEP-2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 71
COUNTY ST. LOUIS	
JOB NO. J6S3669	
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)

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 350-0000
FAX: (314) 350-0001
CERTIFICATE OF AUTHORITY #00704

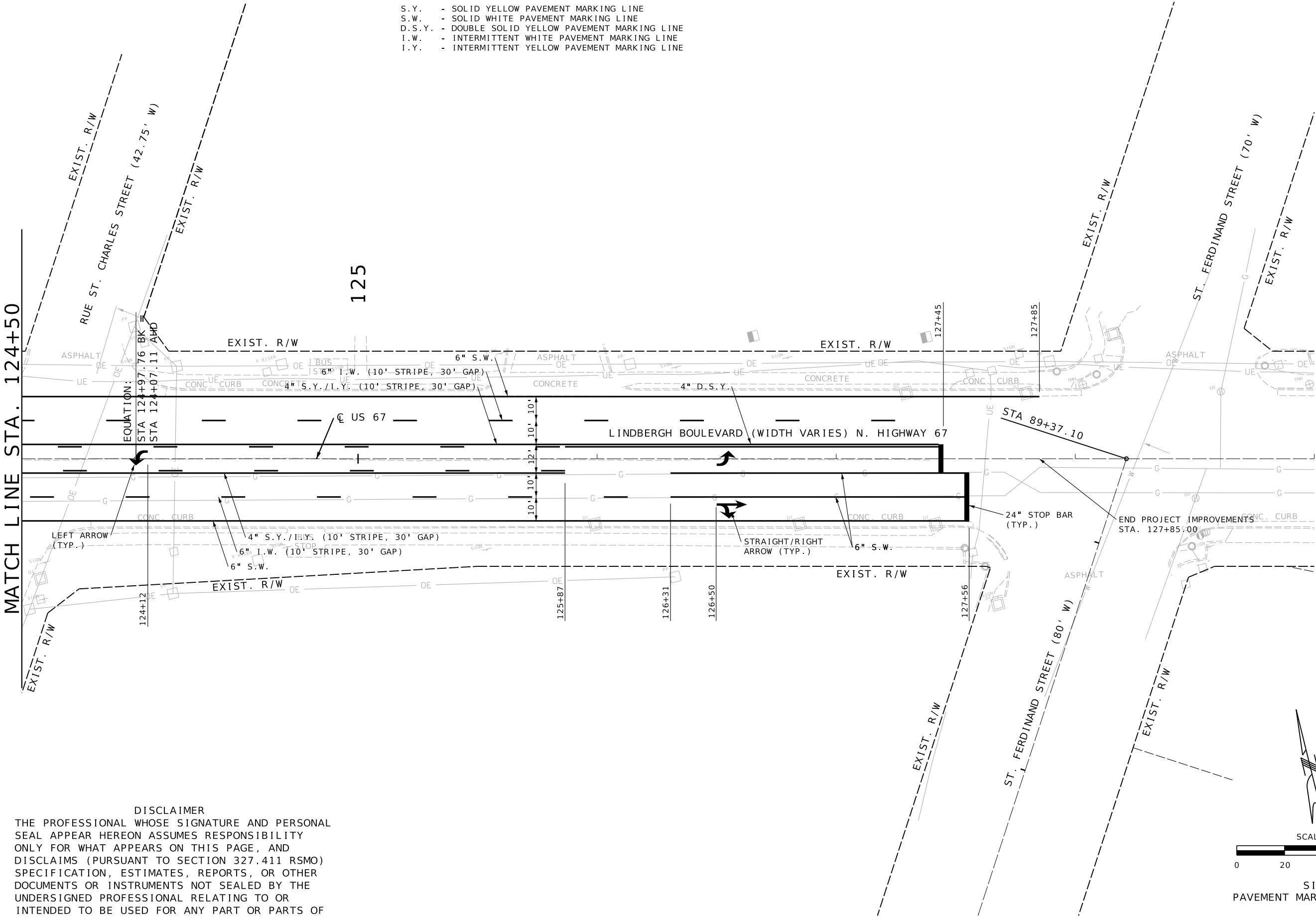
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NOTE: ALL STOP BARS AND ARROWS SHALL BE THERMOPLASTIC.

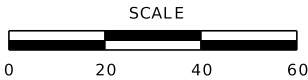
LEGEND

- S.Y. - SOLID YELLOW PAVEMENT MARKING LINE
S.W. - SOLID WHITE PAVEMENT MARKING LINE
D.S.Y. - DOUBLE SOLID YELLOW PAVEMENT MARKING LINE
I.W. - INTERMITTENT WHITE PAVEMENT MARKING LINE
I.Y. - INTERMITTENT YELLOW PAVEMENT MARKING LINE

MATCH LINE STA. 124+50



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SIGNING AND PAVEMENT MARKING PLAN (A1072)
STA. 124+50 TO END
SHEET 4 OF 7

STATE OF MISSOURI

RICHARD S. BAUM

NUMBER E-24320

PROFESSIONAL ENGINEER

09/26/2024 5:04:26 PM

Richard S. Baum

MO PE E-24320

DATE PREPARED
23-SEP-2024

ROUTE 67

STATE MO

DISTRICT SL

SHEET NO. 72

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Jacobs

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 380-0000
FAX: (314) 380-0001
CERTIFICATE OF AUTHORITY #00704

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SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

SIGN NO.

SIGN SIZE

STATION

HORZ 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

POST NO. 2

POST NO. 3

LBS PER FT

TOTAL ITEM NO. 9031210

LBS

PIPE POSTS *

PIPE SIZE

POST NO. 1

POST NO. 2

LBS PER FT

TOTAL ITEM NO. 9031220

LBS

BACKING BARS **

2" X 3/8" BARS @ 2.55 LBS PER FT

NO.

LGTH

TOTAL

TOTAL

EACH

IN.

LF

LBS

U-CHANNEL POST

ITEM NO. 9031250A

LF

PERFORATED SQUARE STEEL TUBE

2 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031270A

LF

LF

LF

ANCHORS

DRIVEN 12-GA. ITEM NO. 9031271A

EA

DRIVEN 7-GA. ITEM NO. 9031273A

EA

CONCRETE 7-GA. ITEM NO. 9031274

EA

2.5 IN. POST

POST NO. 1

POST NO. 2

TOTAL ITEM NO. 9031280

LF

LF

LF

ANCHORS

2.25" INSERT (6 FT) ITEM NO. 9031272A

EA

DRIVEN 7-GA. ITEM NO. 9031281A

EA

CONCRETE 7-GA. ITEM NO. 9031285

EA

BREAK-AWAY ASSEMBLY

ITEM NO. 9031241

EA

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED

23-SEP-2024

ROUTE

67

STATE

MO

DISTRICT

SL

SHEET NO.

73

COUNTY

ST. LOUIS

JOB NO.

J6S3669

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)

JACOBS

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DRIVE W, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 380-0000

CERTIFICATE OF AUTHORITY #00704

SIGNING AND PAVEMENT MARKING PLAN (A1072)

SHEET 5 OF 7

D-29

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE		WEIGHT		STUB LENGTH	FOOTING		CONCRETE C.Y.
(IN.)	LBS/FT	LBS/IN	DIA.		DEPTH		
2 1/2	5.79	0.48	4'- 3 1/2"	12"	4-6"	0.13	
4	10.79	0.90	5'- 3 1/2"	18"	5-6"	0.36	

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT		STUB LENGTH	DIA.	FOOTING							
		LBS/FT	LBS/IN			LEVEL	GRADE	6:1 GRADE	4:1 GRADE	3:1 OR 2:1 GRADE			
						DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	C.Y.	DEPTH	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

* BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.

** BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

DATE PREPARED	
23-SEP-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
SL	74
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

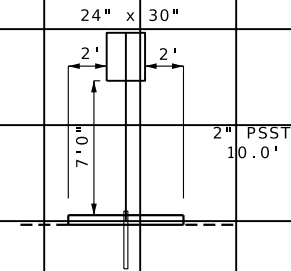
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MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

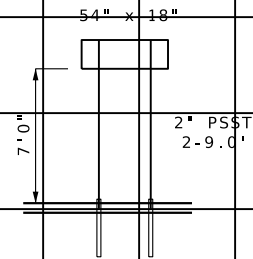
105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs.
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DRIVE W. SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

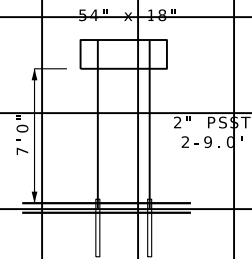
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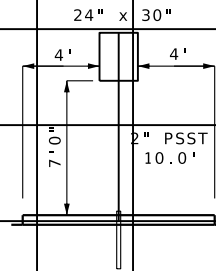
STA. 113+19, RT.
RTE. 67



STA. 113+92, RT.
RTE. 67



STA. 115+14, RT.
RTE. 67

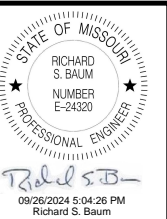


4

STA. 115+93, LT.
RTE. 67

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SIGNING AND
PAVEMENT MARKING PLAN
(A1072)
SHEET 7 OF 7



DATE PREPARED
23-SEP-2024

ROUTE 67	STATE MO
-------------	-------------

DISTRICT	SHEET NO.
SL	75


COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO. _____

BRIDGE NO.	

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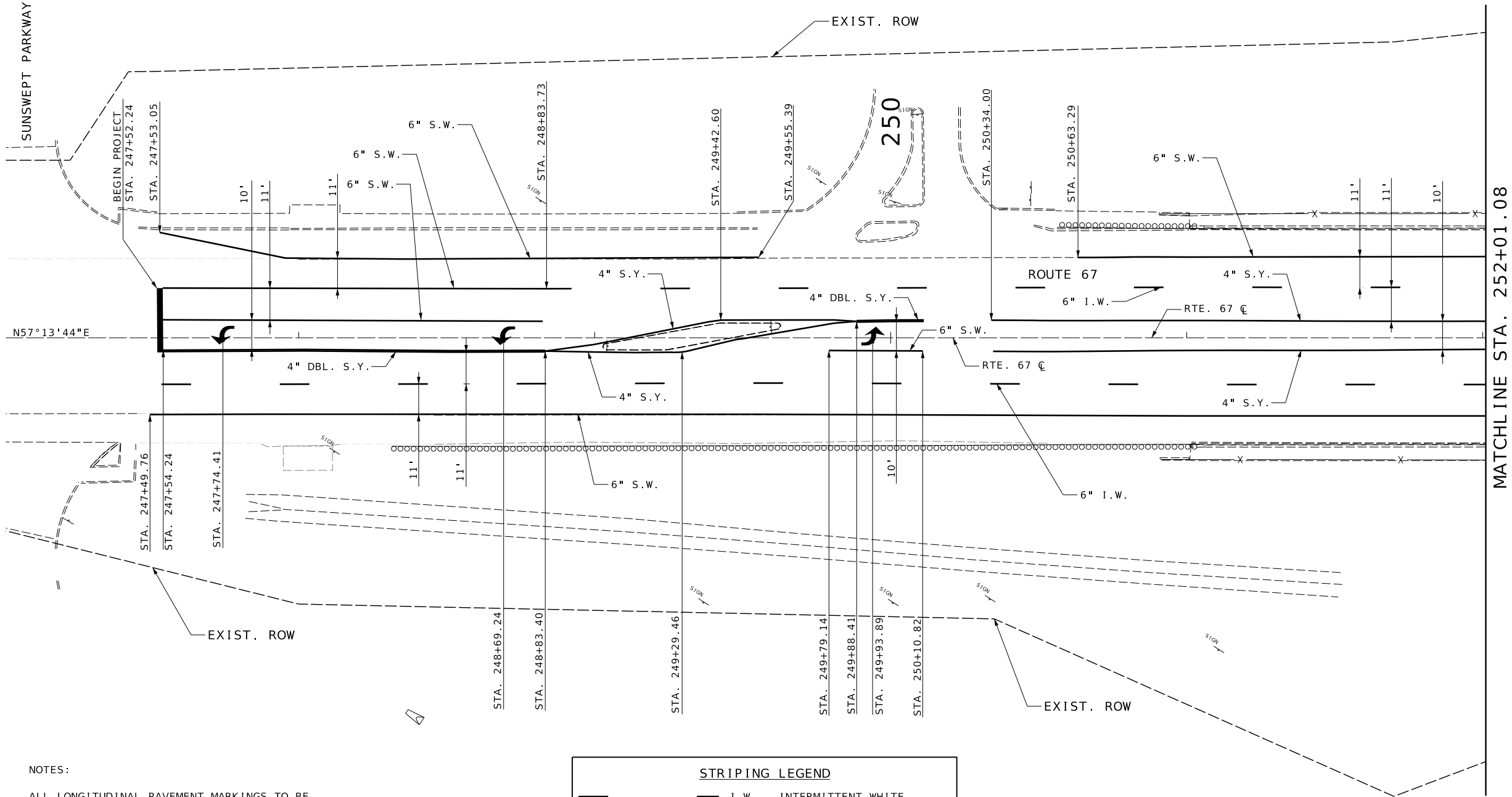
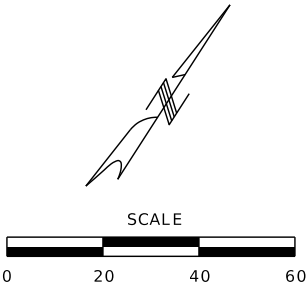
COMMISSION

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

Jacobs.
JACOBS ENGINEERING GROUP
HIGHLANDS PLAZA DRIVE W, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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NOTES:

ALL LONGITUDINAL PAVEMENT MARKINGS TO BE HIGH BUILD WATERBORNE PAINT WITH TYPE L BEADS.

ALL ARROWS AND STOP BARS TO BE PERFORMED THERMOPLASTIC MARKINGS.

STRIPING LEGEND	
	I.W. - INTERMITTENT WHITE
	S.W. - SOLID WHITE
	I.Y. - INTERMITTENT YELLOW
	S.Y. - SOLID YELLOW
	DBL. S.Y. - DOUBLE SOLID YELLOW
	24" WIDE STOP BAR

Riley J. Hoffman
09/27/2024 10:30:46 AM
Riley J. Hoffman
MO PE-2022042958

DATE PREPARED 9/27/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 76
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

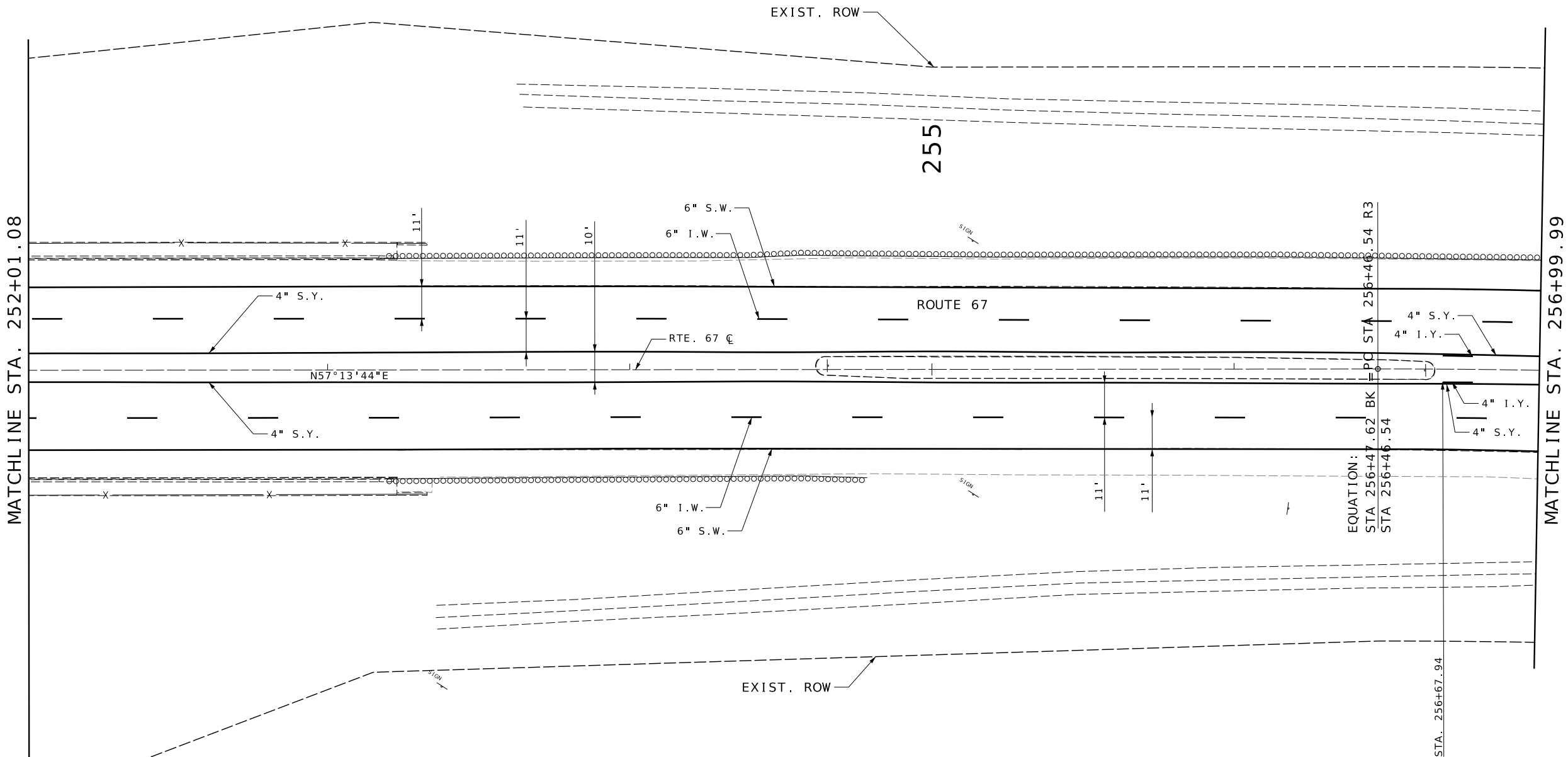
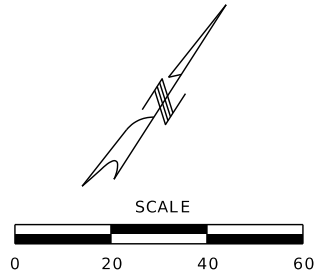
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608

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NOTES:

ALL LONGITUDINAL PAVEMENT MARKINGS TO BE HIGH BUILD WATERBORNE PAINT WITH TYPE L BEADS.

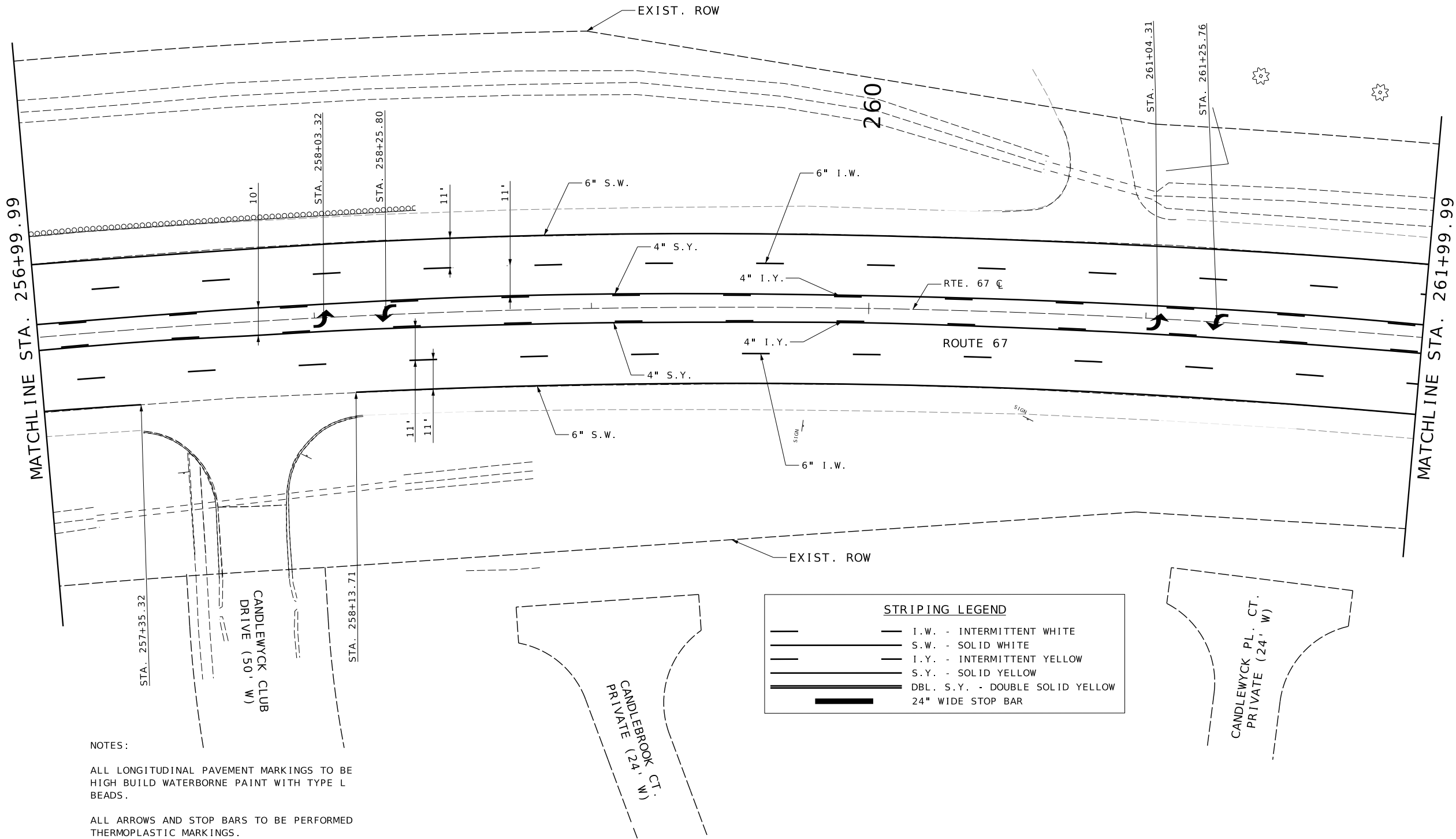
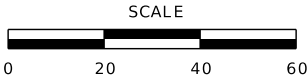
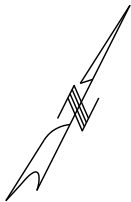
ALL ARROWS AND STOP BARS TO BE PERFORMED THERMOPLASTIC MARKINGS.

STRIPING LEGEND	
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	S.W. - SOLID WHITE
	I.Y. - INTERMITTENT YELLOW
	S.Y. - SOLID YELLOW
	DBL. S.Y. - DOUBLE SOLID YELLOW
	24" WIDE STOP BAR

PAVEMENT MARKING PLAN
(A1074)
SHEET 2 OF 4

 <p>RILEY J. HOFFMAN PE-2022042958</p> <p><i>Riley Hoffman</i></p> <p>09/27/2024 10:29:53 AM Riley J. Hoffman MO PE-2022042958</p>	
DATE PREPARED 9/27/2024	
ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 77
COUNTY ST. LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
 <p>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>	
<p>HR GREEN, INC. 520 MARYVILLE CENTRE DRIVE, SUITE 100 ST. LOUIS, MISSOURI 63141 PHONE: (636) 519-0990 CORPORATE LICENSE #2002006608</p>	

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NOTES:

ALL LONGITUDINAL PAVEMENT MARKINGS TO BE HIGH BUILD WATERBORNE PAINT WITH TYPE L BEADS.

ALL ARROWS AND STOP BARS TO BE PERFORMED THERMOPLASTIC MARKINGS.

STRIPING LEGEND	
	I.W. - INTERMITTENT WHITE
	S.W. - SOLID WHITE
	I.Y. - INTERMITTENT YELLOW
	S.Y. - SOLID YELLOW
	DBL. S.Y. - DOUBLE SOLID YELLOW
	24" WIDE STOP BAR



Riley J. Hoffman
09/27/2024 10:30:08 AM
Riley J. Hoffman
MO PE-2022042958

DATE PREPARED
9/27/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 78

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

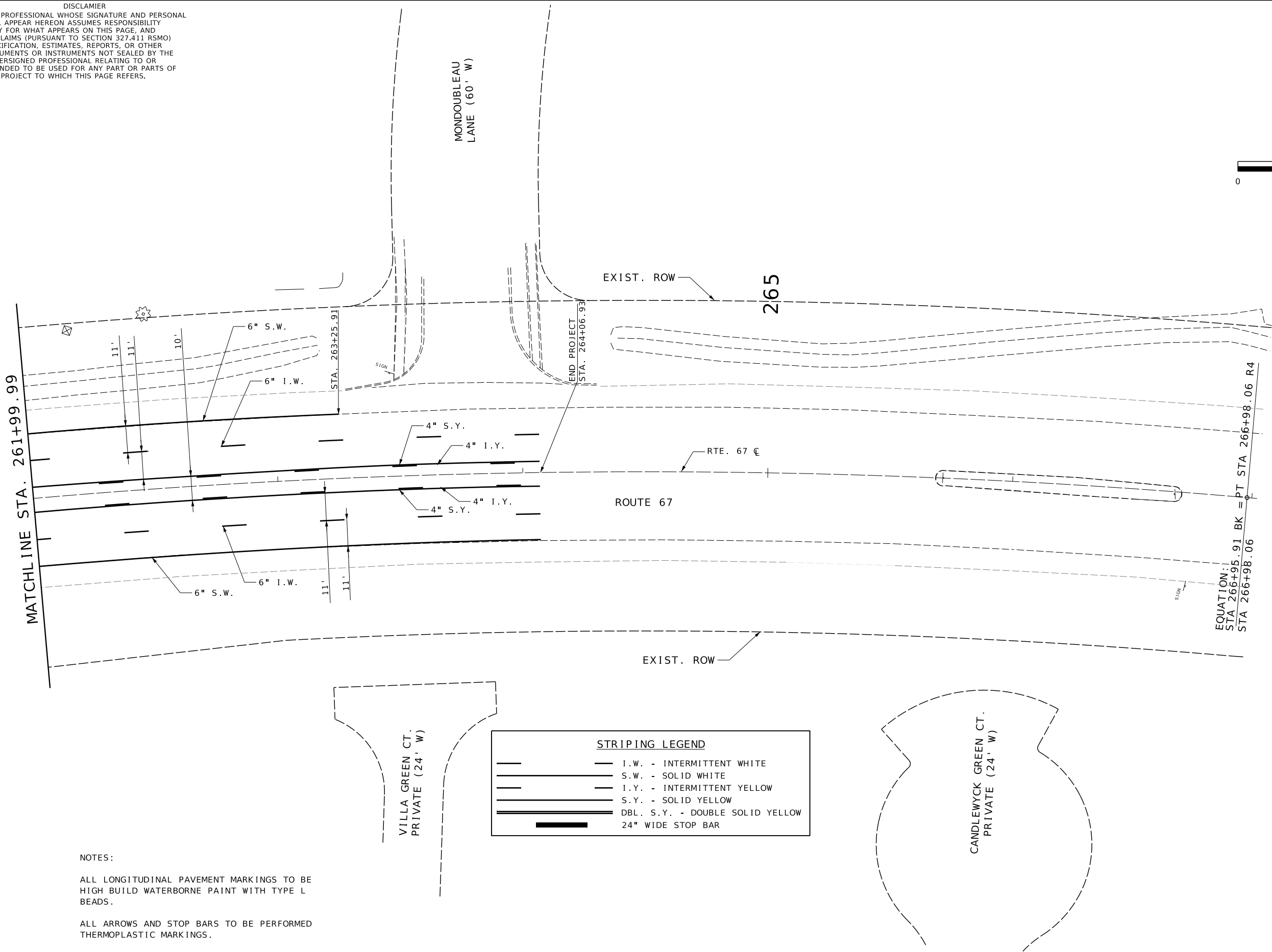
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



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

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NOTES:

ALL LONGITUDINAL PAVEMENT MARKINGS TO BE HIGH BUILD WATERBORNE PAINT WITH TYPE L BEADS.

ALL ARROWS AND STOP BARS TO BE PERFORMED THERMOPLASTIC MARKINGS.

STRIPING LEGEND	
	I.W. - INTERMITTENT WHITE
	S.W. - SOLID WHITE
	I.Y. - INTERMITTENT YELLOW
	S.Y. - SOLID YELLOW
	DBL. S.Y. - DOUBLE SOLID YELLOW
	24" WIDE STOP BAR

PAVEMENT MARKING PLAN
(A1074)
SHEET 4 OF 4

RILEY J. HOFFMAN
PE-2022042958

09/27/2024 10:30:28 AM
Riley J. Hoffman
MO PE-2022042958

DATE PREPARED
9/27/2024

ROUTE 67	STATE MO
DISTRICT SL	SHEET NO. 79

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

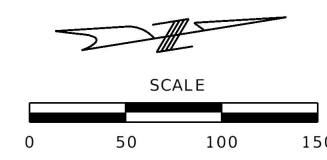
BRIDGE NO.

DESCRIPTION	DATE

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HR GREEN, INC.
520 MARYVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (636) 519-0990
CORPORATE LICENSE #2002006608



REPLACE STRAIGHT ARROW AT
NB U.S. 67 AND I-270 EXIT RAMP
INTERSECTION.

MATCHLINE SEE NEXT SHEET

BRIDGE A4514
PAVEMENT MARKING
SHEET 1 OF 2

STATE OF MISSOURI
JOHN E. KEECE
REGISTERED PROFESSIONAL ENGINEER
200900035

9/25/2024

DATE PREPARED
9/25/2024

ROUTE
67

DISTRICT
SL

STATE
MO

SHEET NO.
80

COUNTY
ST. LOUIS

JOB NO.
J6S3669

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)

THE POWER HOUSE AT UNION STATION
ST. LOUIS, MO 63103-2296
314-531-1431 FAX: 314-531-6866
www.HornorShifrin.com
Certificate of Authority: 000169
Expiration Date: December 31, 2024



MATCH LINE SEE PREVIOUS SHEET

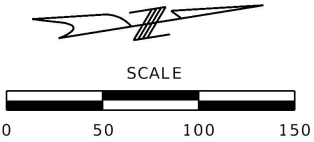
LYNN HAVEN LANE

CANDLE LIGHT LN

240

245

BRIDGE A4514
PAVEMENT MARKING
SHEET 2 OF 2



DATE PREPARED
9/25/2024

ROUTE 67 STATE MO

DISTRICT SL SHEET NO. 81

COUNTY ST. LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

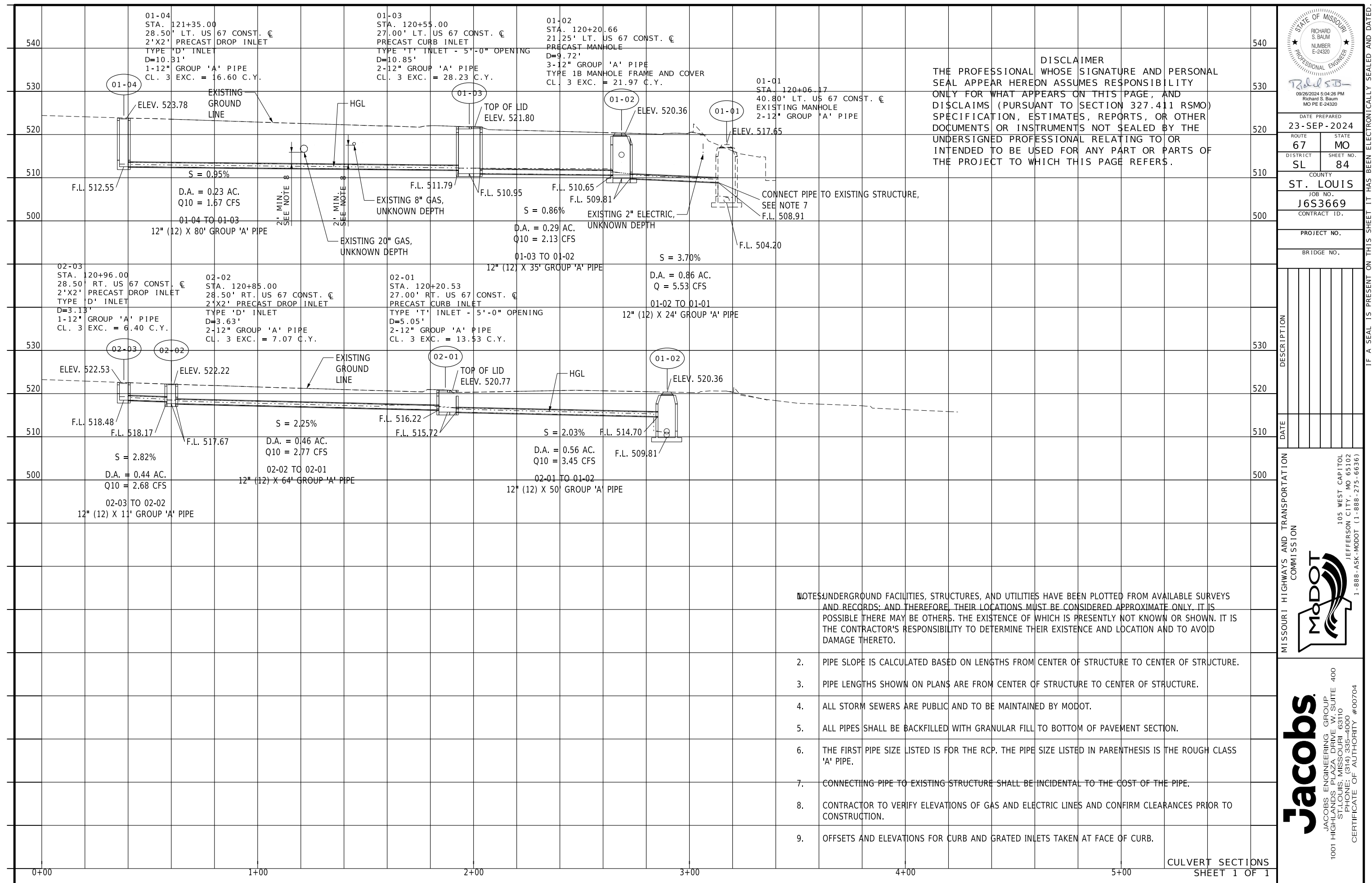
105 WEST CAPITOL
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THE POWER HOUSE AT UNION STATION
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314-531-4321 FAX: 314-531-6866
www.HornerShifrin.com
Certificate of Authority: 0001269
Expiration Date: December 31, 2024

SHIFRIN

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Required Lap Length
For Bar Splices (1)

Bar Size	Splice Length
4	2'-8"
5	3'-4"
6	4'-0"

(1) Unless otherwise shown.

Table Showing
S7 Bar Lengths

Int. Bent No. 2		Int. Bent No. 3	
Span 1	Span 2	Span 2	Span 3
19'-2"	17'-11"	17'-11"	19'-2"

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:

HS20-44
35 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:

Class B-1 Concrete (Barrier & Approach Haunch f'c = 4,000 psi
Class B-2 Concrete (End Bents, Superstructure, f'c = 4,000 psi
except Barrier) fy = 60,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 36,000 psi
Structural Carbon Steel (ASTM A709 Grade 36)

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.

Miscellaneous:

The top, sides and bottom of the top flanges of existing steel
girders shall be cleaned with a minimum of SSPC-SP-3 surface
preparation and coated with a minimum of one coat of gray
epoxy-mastic primer (non-aluminum) in accordance with Sec 1081
to produce a dry film thickness of not less than 3 mils before
concrete is poured. The cost will be considered completely
covered by the contract unit price for Slab on Steel.

Aesthetic concrete stain shall be applied to all exposed
vertical faces of all bents and to the bottom of the
intermediate bent cap beams in accordance with Sec 703.3.13.

Bars bonded in existing concrete not removed shall be cleanly
stripped and embedded into new concrete where possible. If
length is available, existing bars shall extend into new
concrete at least 40 diameters for smooth bars and 30
diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of
overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new
bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704,
unless noted otherwise.

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

Longitudinal dimensions are based on original plans.

Contractor shall verify all dimensions in field before
ordering new material.

The area exposed by the removal of concrete and not covered
with new concrete shall be coated with an approved qualified
special mortar in accordance with Sec 704.

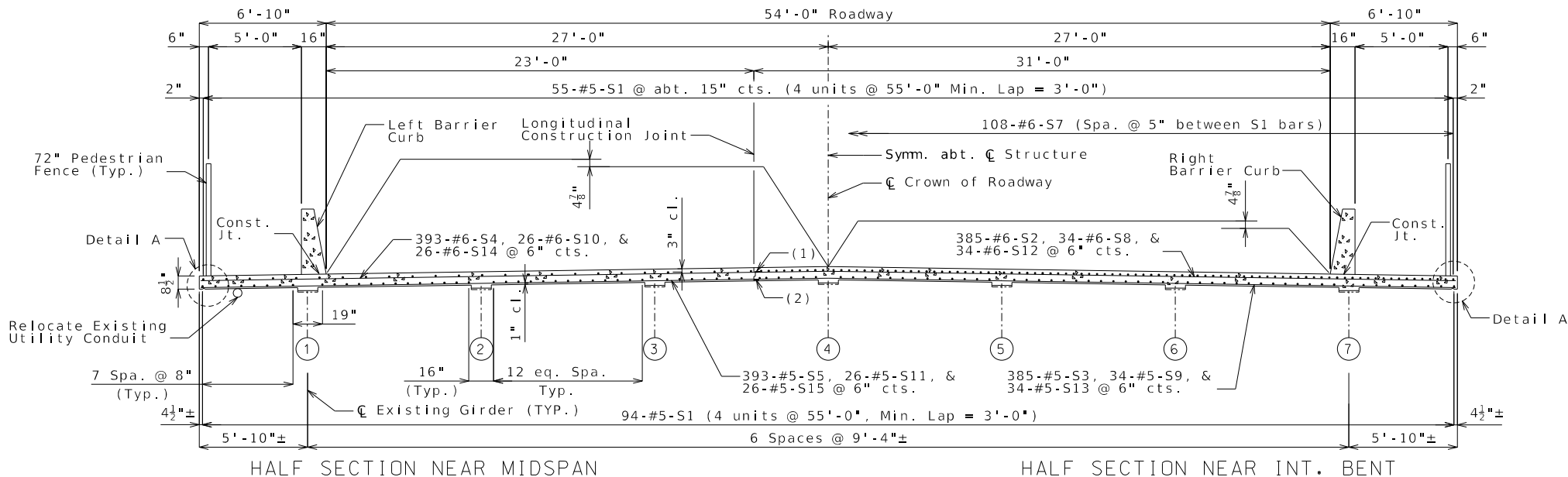
The cost to temporarily support and mount existing conduit to
the new bridge deck will be considered completely covered by
the contract unit price for Slab on Steel.

MBS refers to mechanical bar splices. Mechanical bar splices
shall be in accordance with Sec 706 or 710.

Traffic Handling:

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

Detailed: Sept. 2024
Checked: Sept. 2024

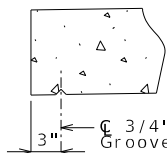


HALF SECTION NEAR MIDSPAN

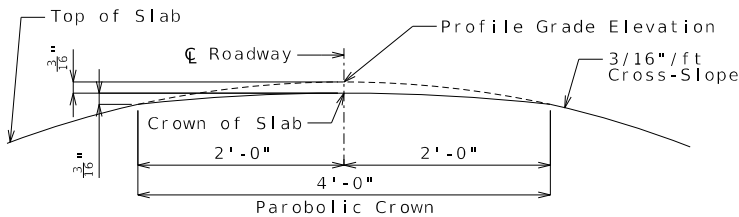
HALF SECTION NEAR INT. BENT

TYPICAL SECTION THRU SLAB

(Looking Ahead Station, Slab Drains Not Shown)



DETAIL A



PARABOLIC CROWN DETAIL

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	408
Reinforcing Steel (Epoxy Coated)	pound	124,730

The table of Estimated Quantities for Slab on Steel 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
stay-in-place corrugated steel forms, 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.

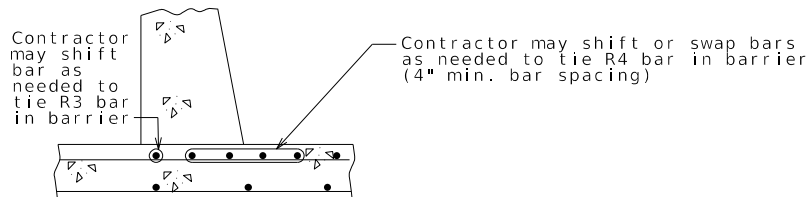
Method of forming the slab shall be in accordance with Sec 703. All
hardware for forming the slab to be left in place as a permanent
part of the structure shall be coated in accordance with ASTM A123
or ASTM B633 with a thickness class SC 4 and a finish type I, II or
III.

Slab shall be cast-in-place with conventional forming or stay-in-
place corrugated steel forms. Precast prestressed panels will not
be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

Estimated Quantities		
Item		Total
Removal of Miscellaneous ACM (Non-Friable)	sq. foot	20
Temporary Shoring	lump sum	1
Removal of Existing Bridge Deck	sq. foot	14,298
Repair Existing Approach Haunch	linear foot	70
Remove and Replace Approach Haunch	linear foot	70
Bridge Approach Slab (Major)	sq. yard	301
(72 in.) Pedestrian Fence - Black Vinyl Coated	linear foot	502
Aesthetic Concrete Stain	lump sum	1
Slab on Steel	sq. yard	1,587
Type D Barrier	linear foot	502
Substructure Repair (Formed)	sq. foot	5
Substructure Repair (Unformed)	sq. foot	5
Epoxy Pressure Injecting	linear foot	50
Mechanical Bar Splice	each	863
Strengthening Existing Beams	lump sum	1
Slab Drain	each	44
Surface Preparation for Overcoating Structural Steel (System G)	sq. foot	2,400
Intermediate Field Coat (System G)	sq. foot	2,400
Finish Field Coat (System G)	sq. foot	2,400
Reset Bearing	each	7
Vertical Drain at End Bents	each	2
Open Cell Foam Joint Seal	linear foot	75

Cost of any required excavation for bridge will be considered
completely covered by the contract unit price for other items.

OPTIONAL SHIFTING
TOP BARS AT BARRIERREPAIRS TO BRIDGE:
ROUTE 67 OVER COLDWATER CREEK

ROUTE 67 FROM ROUTE I-270 TO ROUTE AC
ABOUT 2.0 MILES WEST OF ROUTE AC
BEGINNING STATION 117+40.20± (MATCH EXISTING)



RODNEY D. RILEY
PROFESSIONAL ENGINEER
01/20/2025 11:57:21 AM
Rodney D. Riley, PE
MO-028267

DATE PREPARED

20-Jan-2025

ROUTE 67

STATE MO

DISTRICT BR

SHEET NO. 1

COUNTY

ST LOUIS

JOB NO.

J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A10722

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

#00704

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY

#00704

REV.

General Notes:
Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

The contractor shall pour and satisfactorily finish the slab pours at a minimum rate of 25 cubic yards per hour. Slab shall be poured upgrade from end to end.

Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

For adjusted girder deflection due to weight of new deck and barriers, see Electronic Deliverable.

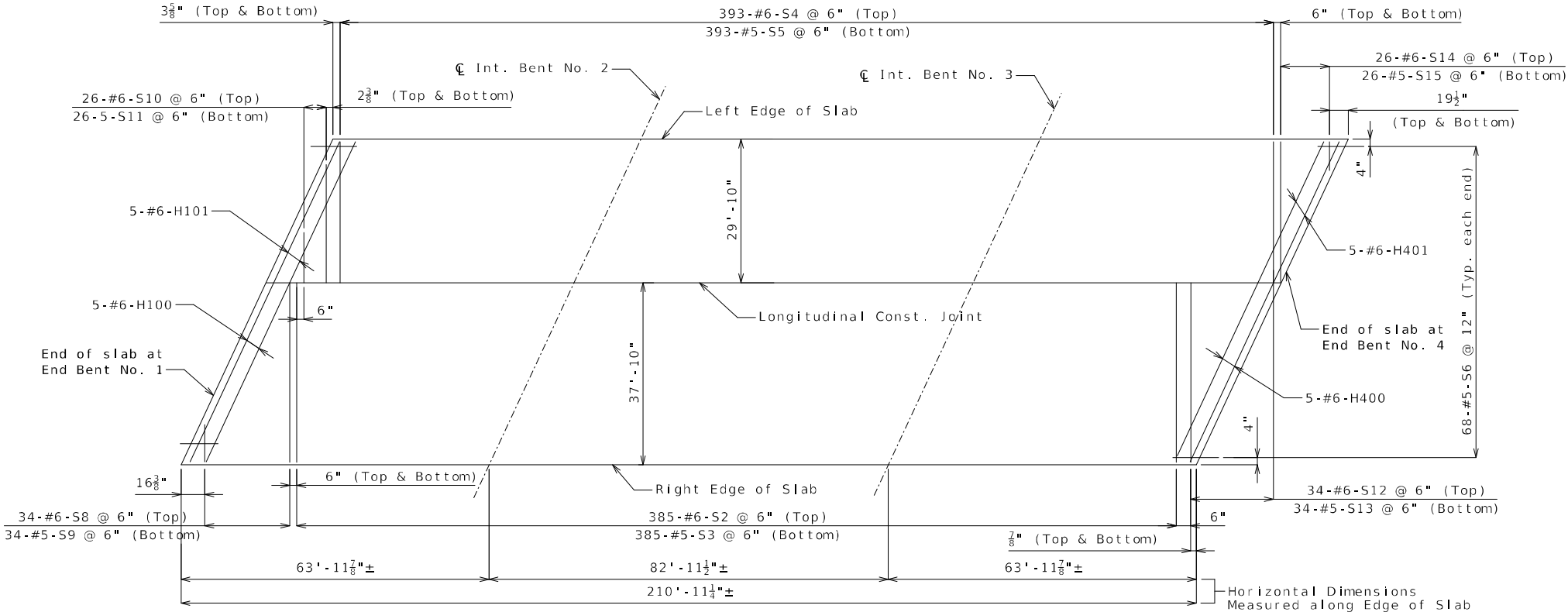
Haunching:

- (1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

Miscellaneous:

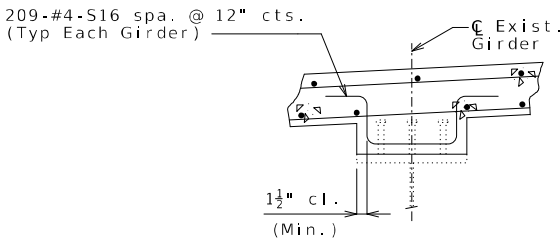
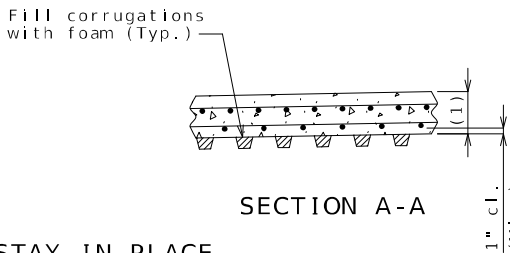
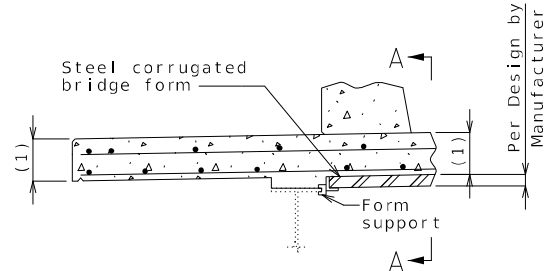
The cost to remove the barrier curb and railing will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck, unless noted otherwise.

- (2) 0" at 60 degrees. Adjust by 1/16" for each 10 degree fall or rise in temperature from 60 degrees at time of setting.



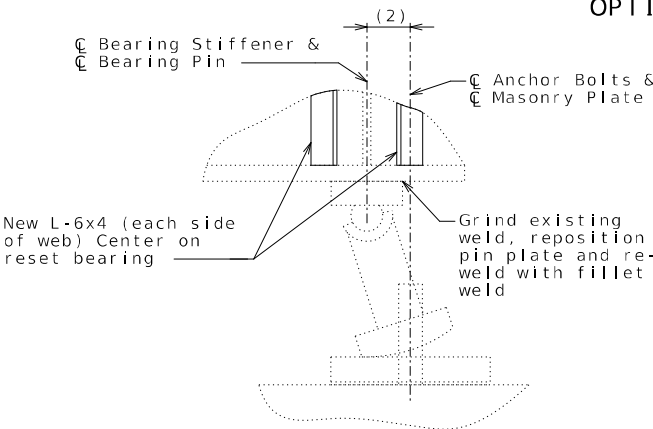
SLAB REINFORCING PLAN DETAIL

(Schematic not to scale Longitudinal Reinforcement not shown, see Sheet No. 1)



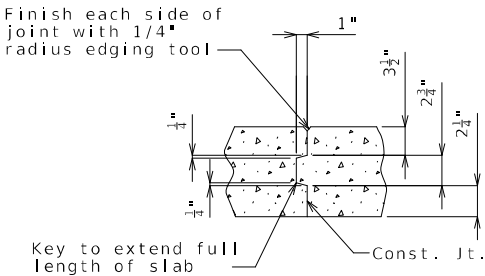
OPTIONAL STAY-IN-PLACE FORM DETAILS

SECTION THRU HAUNCH



RESET BEARINGS AT INT. BENT NO. 3

This work shall include resetting bearing assemblies, inspecting, cleaning, lubricating and coating of existing bearing prior to being reset. Payment for this work, including all material, equipment, labor and any other incidental work necessary to complete this item, will be considered completely covered by the contract unit price for Reset Bearings. See Special Provisions.



LONGITUDINAL SLAB JOINT

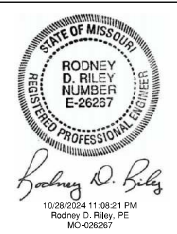
NOTES AND REPAIR DETAILS

Detailed: Sept. 2024
Checked: Sept. 2024

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

Sheet No. 2 of 16

pw://jacobs-us-vapw.bentley.com:jacobs-us-vapw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1072/B_A1072_002_J6S3669_REDECK02.dgn



DATE PREPARED	
28-Oct-2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
BR	2
COUNTY	
ST LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A10722	

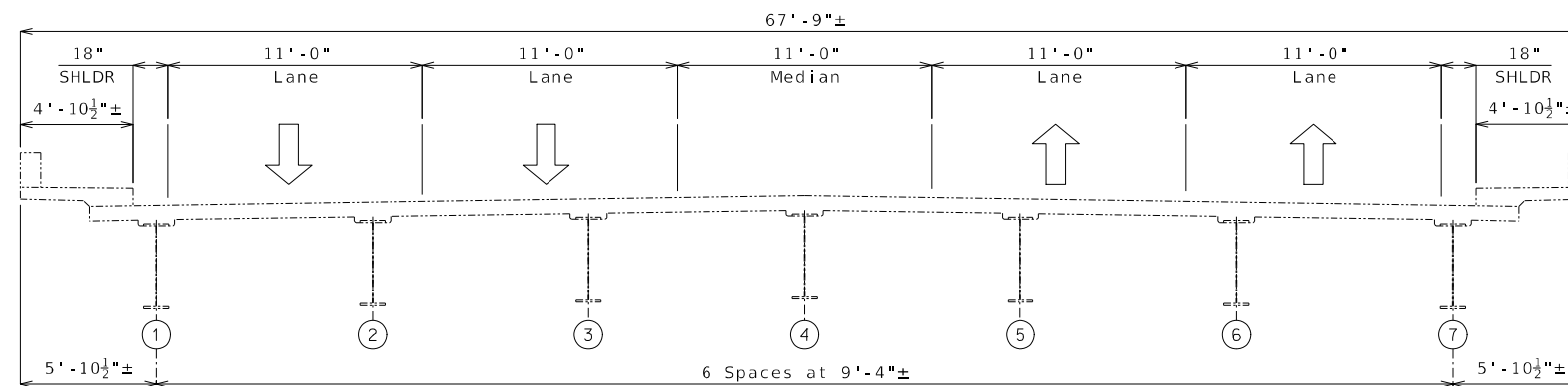
DESCRIPTION	
DATE	

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

Jacobs	
JACOBS ENGINEERING GROUP JACOBS PLAZA DR. WEST SUITE 400 ST. LOUIS, MISSOURI 63110 PHONE: (314) 335-4000 CERTIFICATE OF AUTHORITY #00704	

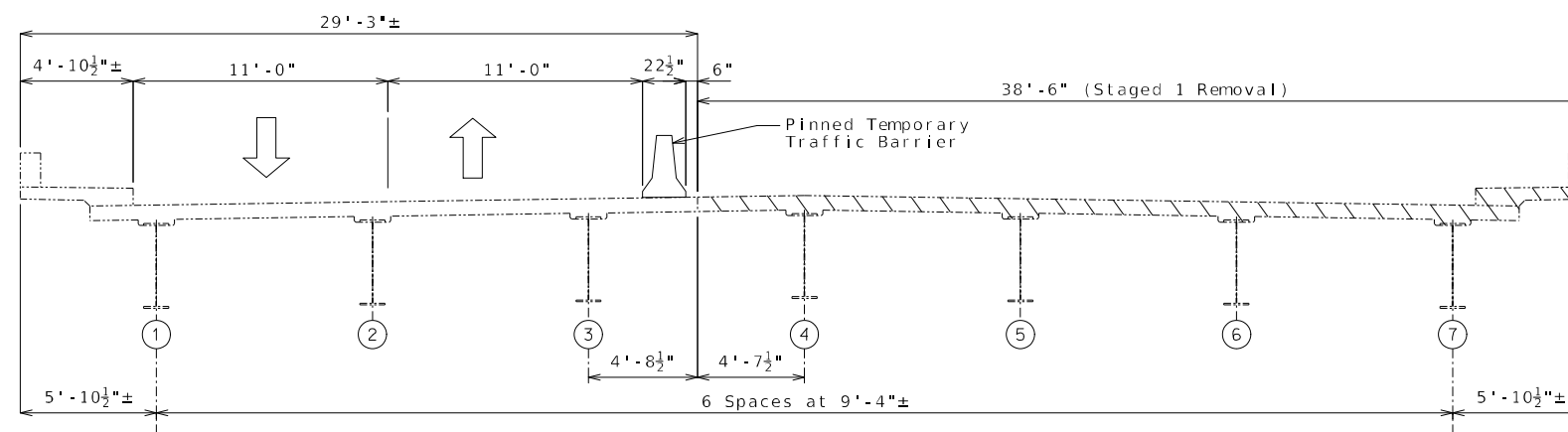
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REV.



EXISTING

(Looking Ahead Station)



STAGE 1 - DEMOLITION

(Looking Ahead Station)

NOTE :

Existing bolts on intermediate diaphragms and cross frames that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.



Rodney D. Biles

10/28/2024 11:08:21 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
28-Oct-2024

28-Oct-2024

ROUTE	STATE
67	MO

67	MO
DISTRICT	SHEET NO.

BR	3
----	---

COUNTY
ST LOUIS

ST LOUIS
JOB NO.

J6S3669

CONTRACT ID.

PROJECT NO. _____

PROJECT NO.

BRIDGE NO.
112500

A10722						
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COMMISSION

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

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JACOBS ENGINEERING GROUP
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#00704



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1-888-ASK-MODOT (1-888-275-6636)

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1-888-ASK-MODOT (1-888-275-6636)

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JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

DATE OF A
#00704

Detailed: Sept. 2024
Checked: Sept. 2024

Checked: Sept. 2024

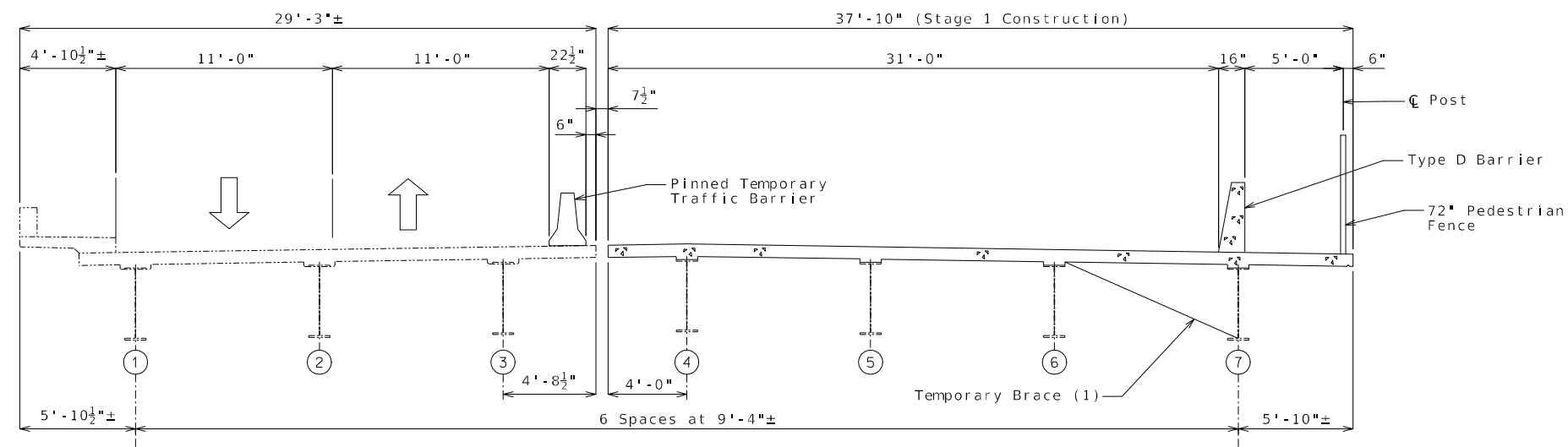
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 16

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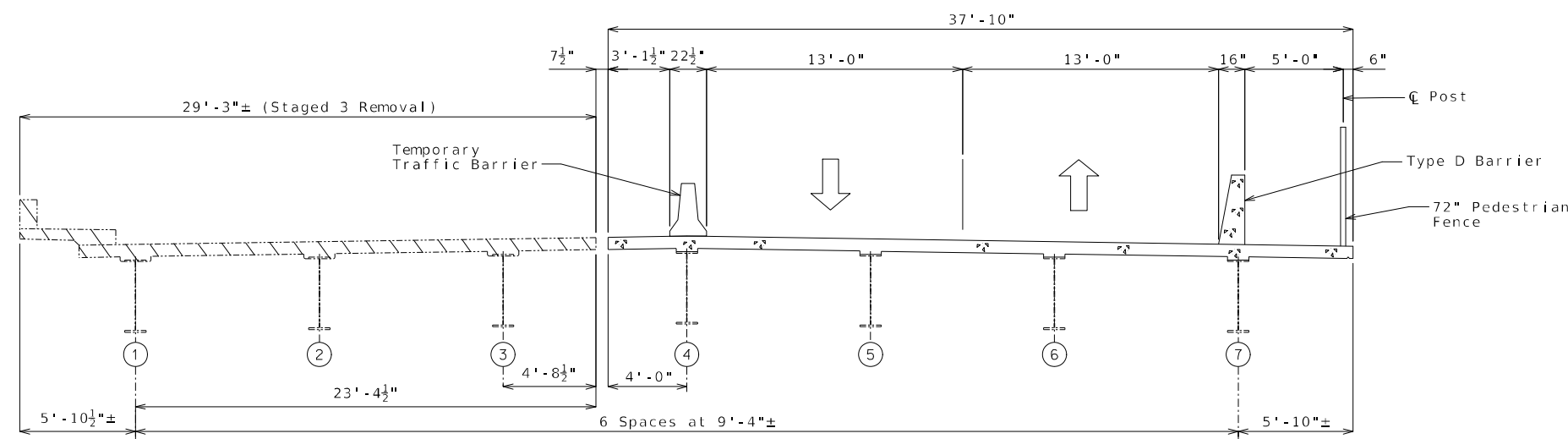
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STAGE 2 - CONSTRUCTION

(Looking Ahead Station, Slab Drains Not Shown)

(1) Contractor shall provide temporary bracing in exterior bay spaced at 4'-0" centers (max). Bracing may be removed after slab has achieved design strength. Cost to provide temporary bracing will be considered completely covered by the contract unit price for Slab on Steel.



STAGE 3 - DEMOLITION

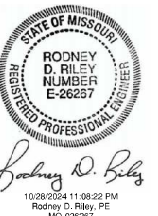
(Looking Ahead Station, Slab Drains Not Shown)

NOTE :

Existing bolts on intermediate diaphragms and cross frame that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

Screed rail for finish machine shall be supported directly on Girder 7.

CONSTRUCTION STAGING (2 OF 3)



DATE PREPARED

ROUTE	STATE
07	MO

DISTRICT	SHEET NO.
DD	1

COUNTY
ST. LOUIS

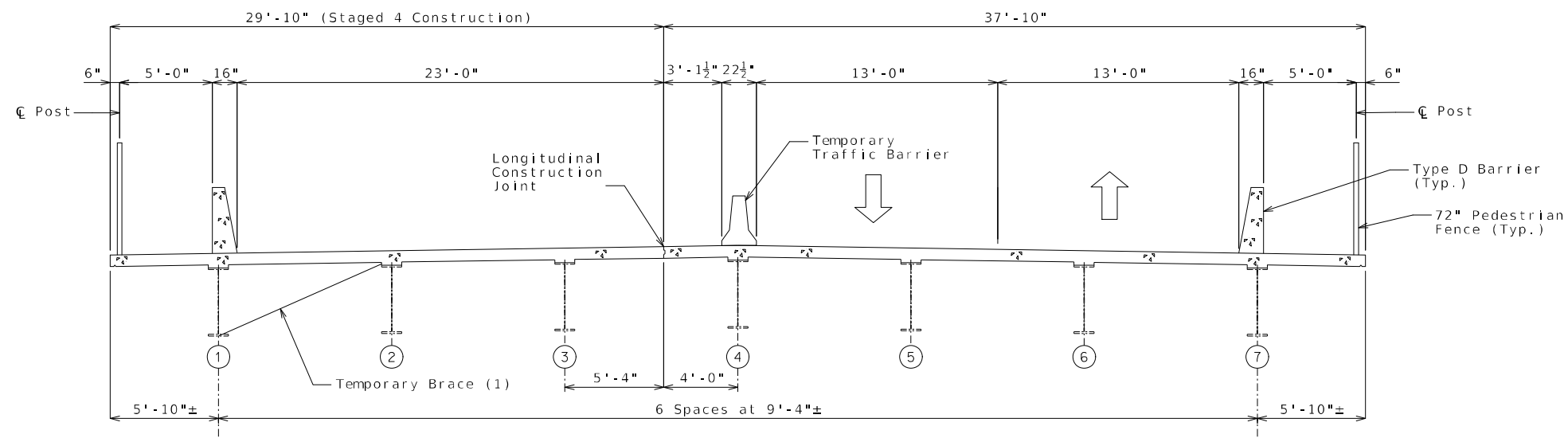
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CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10722[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

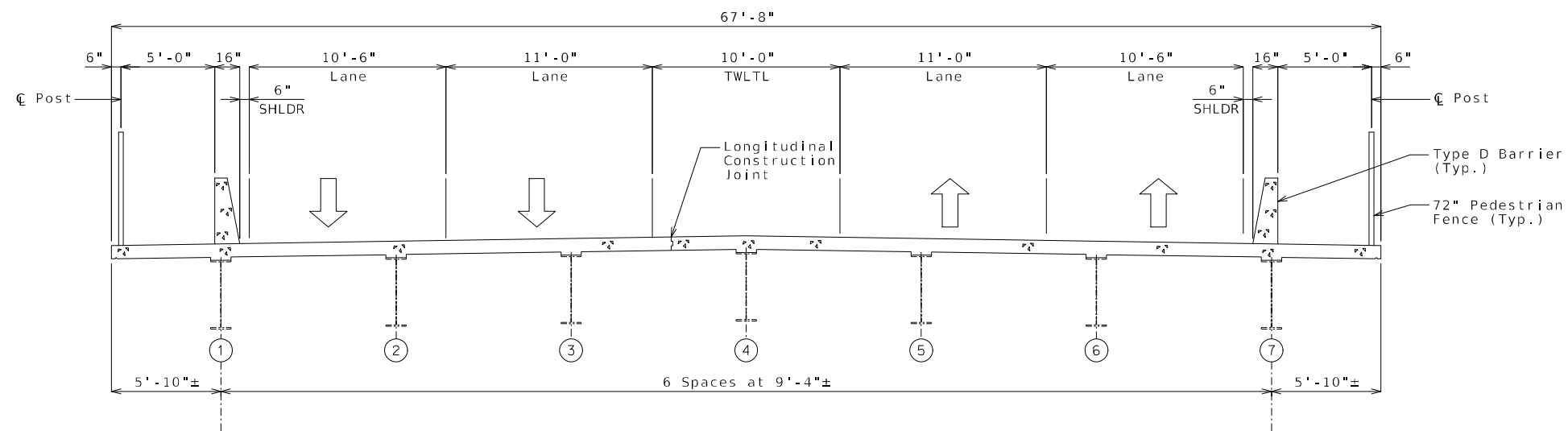
Jacobs
JACOBS ENGINEERING GROUP
10001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704



STAGE 4 - CONSTRUCTION

(Looking Ahead Station, Slab Drains Not Shown)

(1) Contractor shall provide temporary bracing in exterior bay spaced at 4'-0" centers (max). Bracing may be removed after slab has achieved design strength. Cost to provide temporary bracing will be considered completely covered by the contract unit price for Slab on Steel.



FINAL

(Looking Ahead Station, Slab Drains Not Shown)

NOTE :

Existing bolts on intermediate diaphragms and cross frames that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

Screed rail for finish machine shall be supported directly on Girder 1.

CONSTRUCTION STAGING (3 OF 3)

Detailed: Sept. 2024
Checked: Sept. 2024

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

Sheet No. 5 of 16

pw:///jacobs-us-va-pw-bentley.com:jacobs-us-va-pw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1072/B_A1072_005_J653669.Construction_StagIng_3.dgn



Godney D. Biley

DATE PREPARED _____

ROUTE	STATE
C7	MO

DISTRICT	SHEET NO.
DD	E

COUNTY
ST LOUIS

JOB NO.
1662660

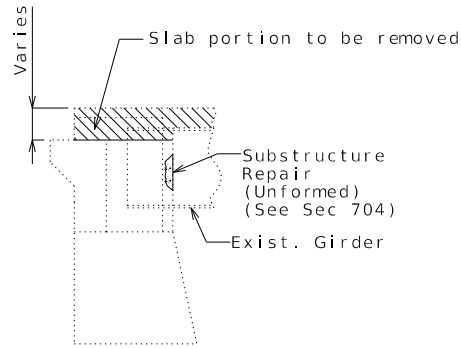
CONTRACT ID.

PROJECT NO.

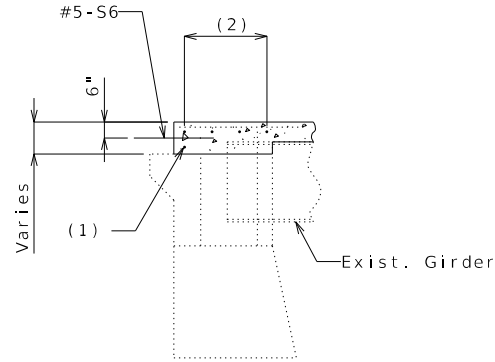
BRIDGE NO.
A10700[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA, DR. SUITE 400
ST. LOUIS, MISSOURI 63110
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CERTIFICATE OF AUTHORITY
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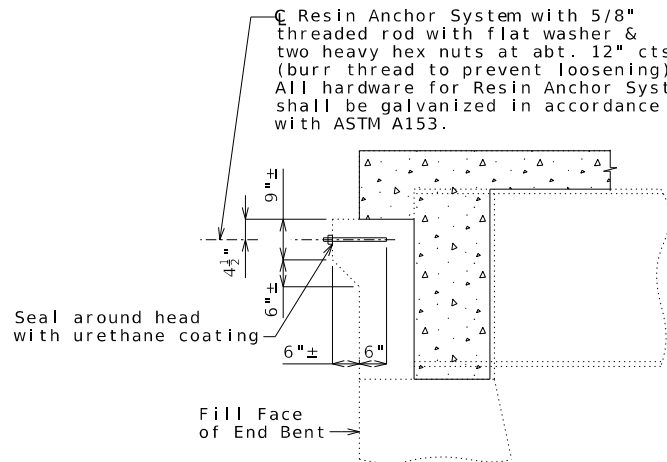
REV.



PART SECTION SHOWING
SLAB REMOVAL AND
SUBSTRUCTURE REPAIR
AT END BENT NO. 4

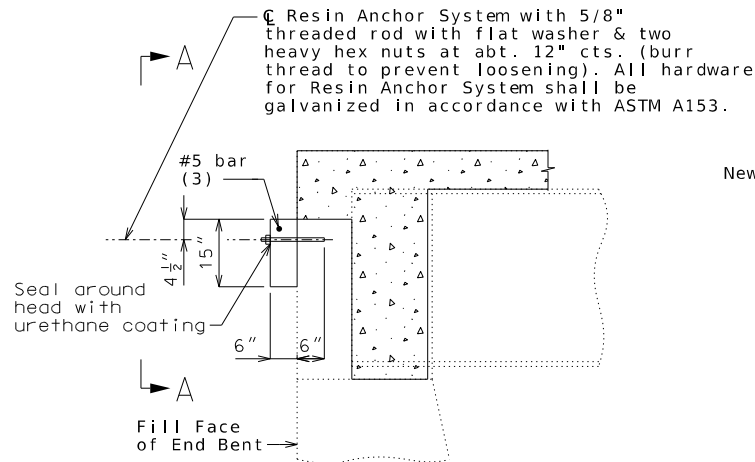


PART SECTION THRU SLAB
AT END BENT NO. 4



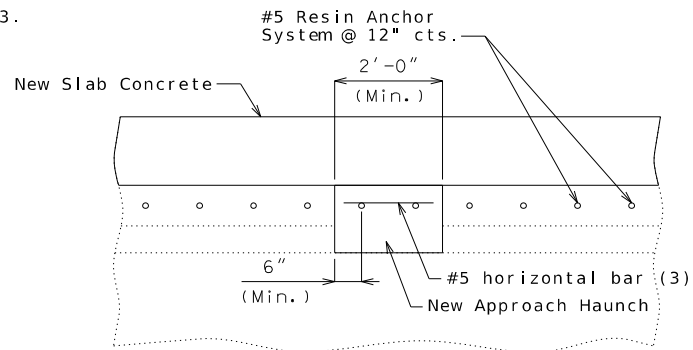
SECTION THRU END BENT WITH
APPROACH HAUNCH REPAIR

(End Bent No. 1 shown, End Bent No. 4 similar)
Cost of furnishing and installing anchor systems for approach haunch repair, complete in place, will be considered completely covered by the contract unit price for Repair Existing Approach Haunch.



SECTION THRU END BENT WITH
APPROACH HAUNCH REPLACEMENT

(End Bent No. 1 shown, End Bent No. 4 similar)
Cost of concrete removal, furnishing and installing anchor systems, concrete and reinforcement for approach haunch replacement will be considered completely covered by the contract unit price for Remove and Replace Approach Haunch.



ELEVATION A-A

(End Bent No. 1 shown, End Bent No. 4 similar)

Notes:

Remove and replace deteriorated sections of approach haunch as designated by the engineer and in accordance with details shown.

Minimum length of replacement shall be 2'-0" as shown.

Removal of concrete shall be in accordance with Sec 216.

Concrete for approach haunch replacement shall be Class B-1.

(1) 1-#6-H100 spliced with 1-#6-H101 at End Bent No. 1.
1-#6-H400 spliced with 1-#6-H401 at End Bent No. 4.

(2) 4-#6-H100 spliced with 4-#6-H101 at End Bent No. 1.
4-#6-H400 spliced with 4-#6-H401 at End Bent No. 4.
Placed parallel to end of slab.

(3) Haunch reinforcing bars are not included in the Bill of Reinforcing Steel. Quantity and length of haunch reinforcing bars will be as directed by the engineer.



RODNEY D. RILEY
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E-26267
10/28/2024 11:08:22 PM
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MO-026267

DATE PREPARED

28-Oct-2024

ROUTE STATE

67 MO

DISTRICT SHEET NO.

BR 6

COUNTY

ST LOUIS

JOB NO.

J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

A10722

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

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END BENTS NO. 1 AND 4

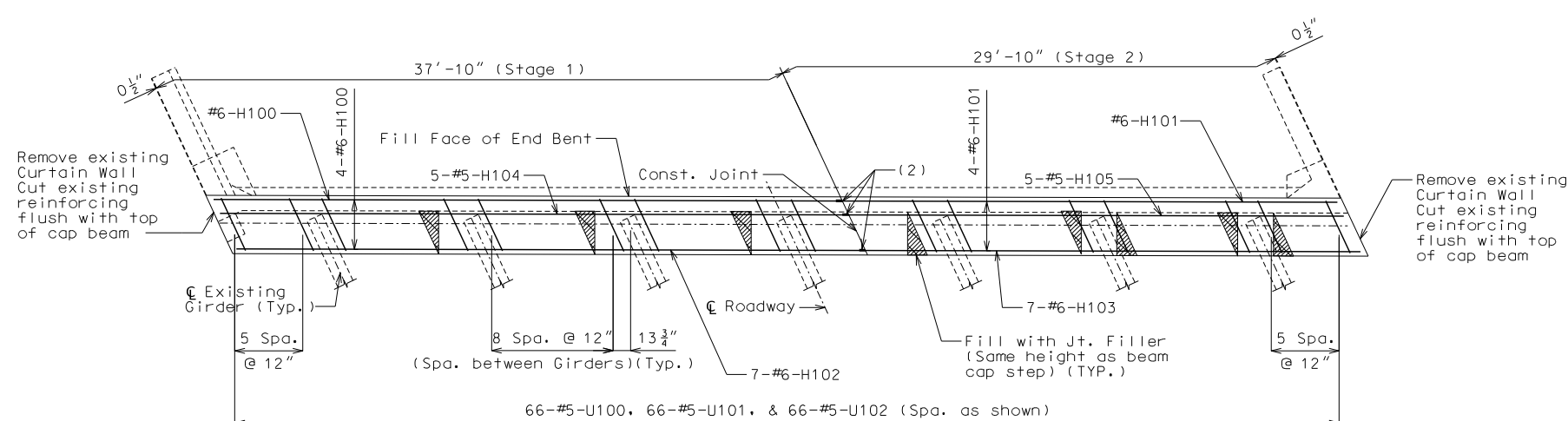
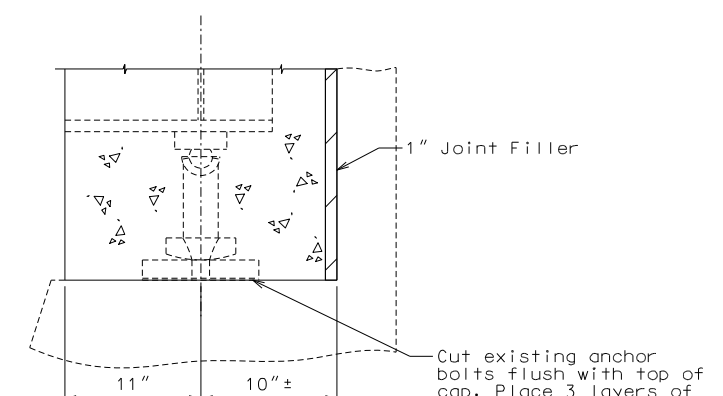
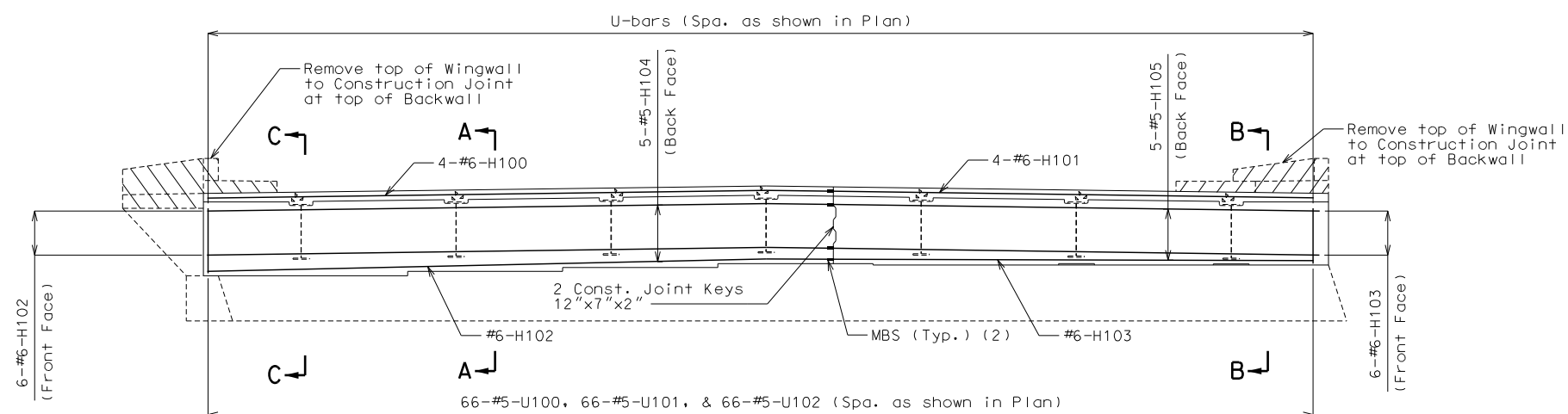
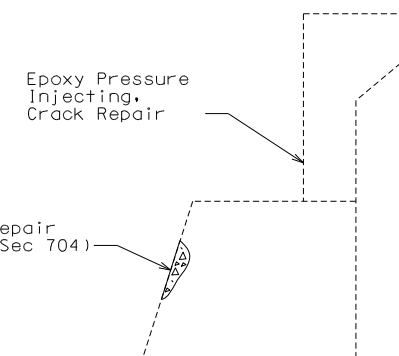
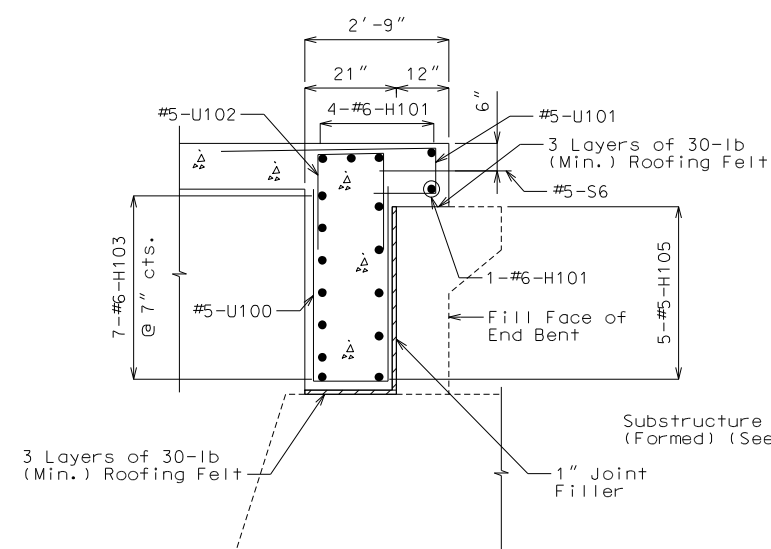
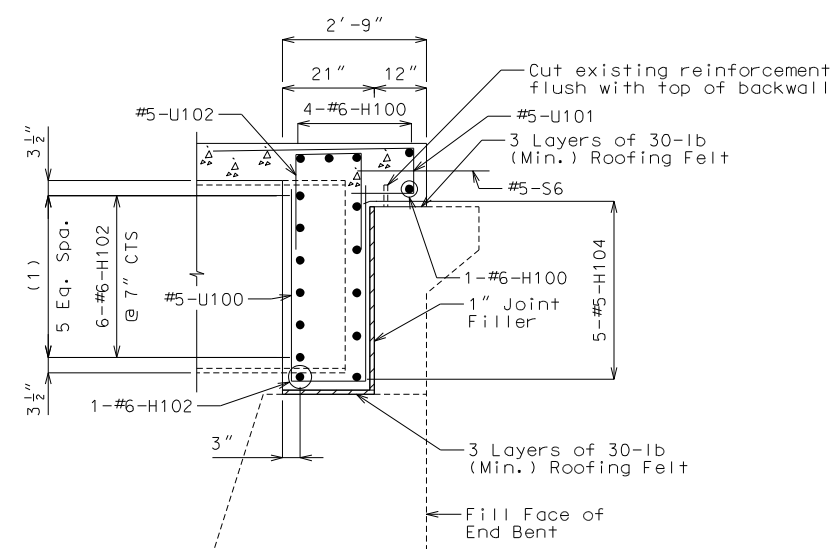
Detailed: Oct. 2024
Checked: Oct. 2024

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

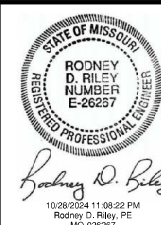
Sheet No. 6 of 16

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REV. 22: 31 28 - OCT - 2024



- (1) C 1 1/16" x 1 3/8" slotted holes in each girder. Cost of field drilling holes in existing plate girder webs will be considered completely covered by the contract unit price for Slab on Steel.
- (2) 5-#6-MBS H100-H101, 7-#6-MBS H102-H103 & 5-#5-MBS H104-H105.
- (3) The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for girders shall extend a minimum of one foot outside the face of the girder encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.



DATE PREPARED

28-Oct-2024

ROUTE	STATE
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DISTRICT	SHEET N
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CONTRACT ID

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PROJECT NO.
BRIDGE NO. A10722

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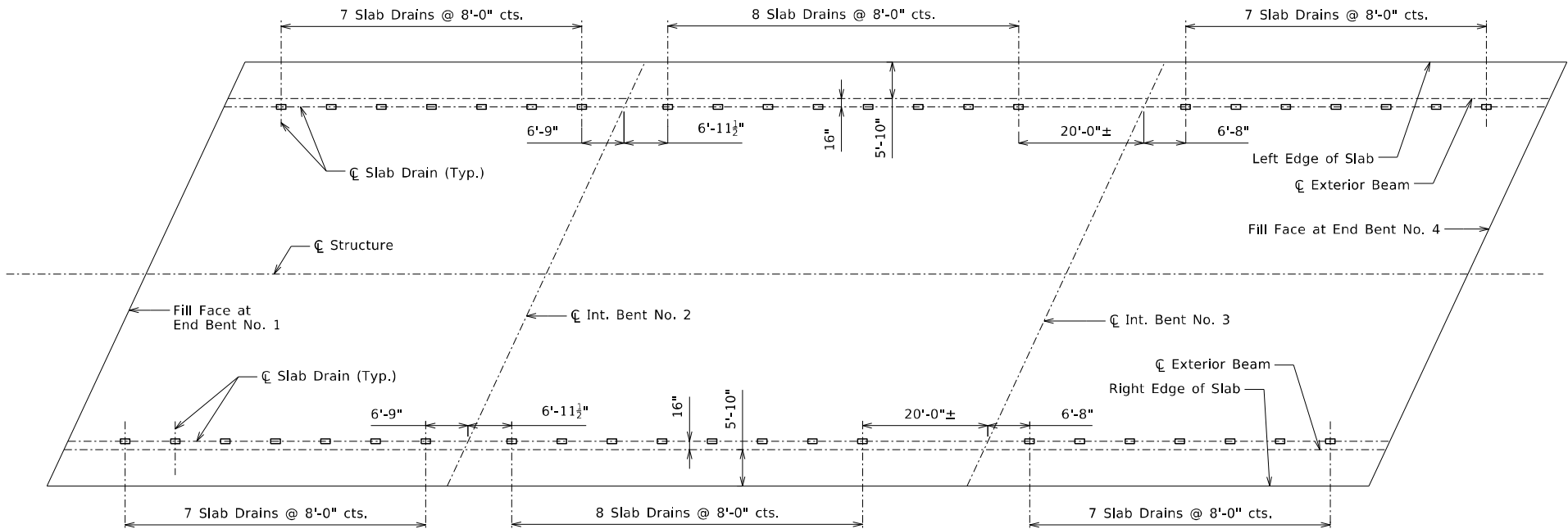
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 16

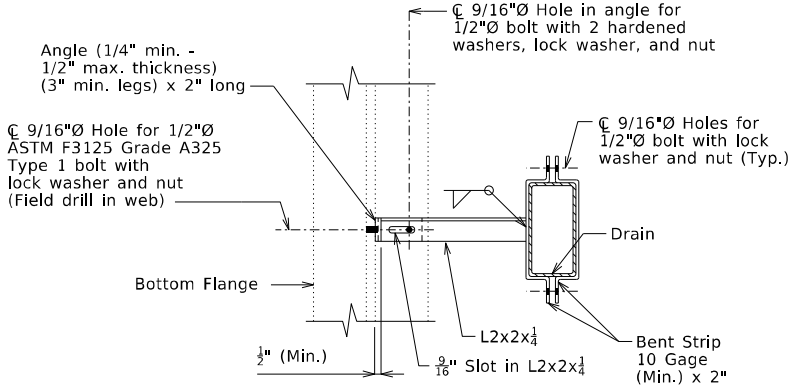
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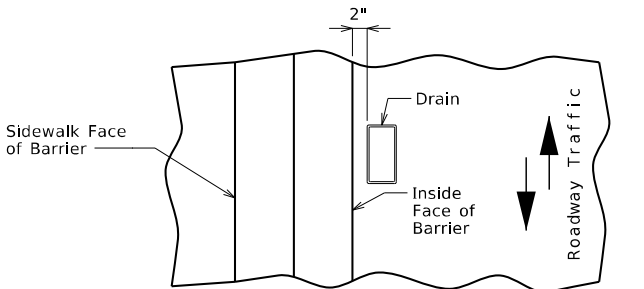
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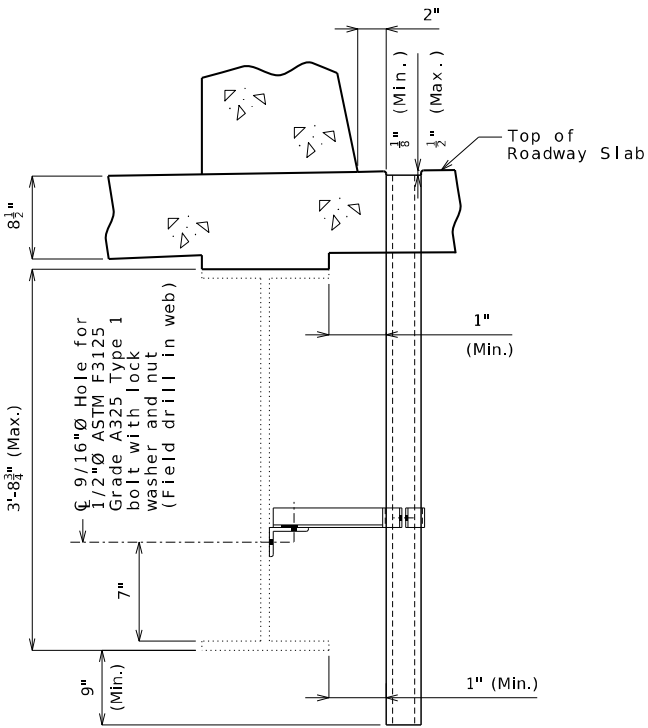
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



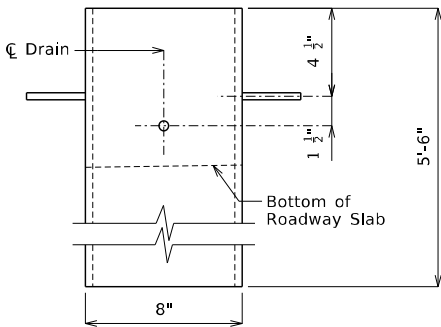
PART SECTION SHOWING BRACKET ASSEMBLY



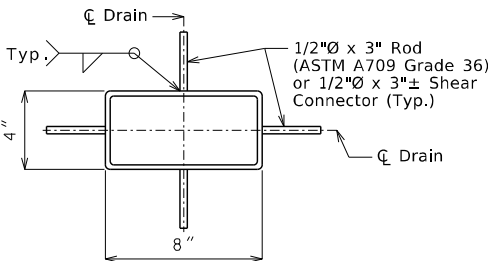
PART PLAN OF SLAB AT DRAIN



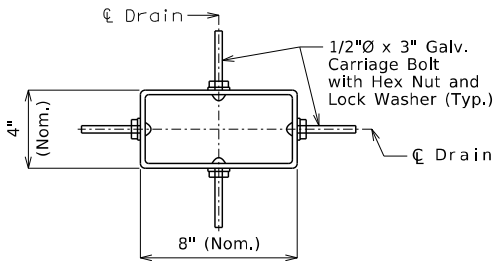
PART SECTION NEAR DRAIN



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 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, except as shown.

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

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

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 recommended by the manufacturer to ensure a smooth, chip free cut.

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REGISTERED PROFESSIONAL ENGINEER
E-26257

10/28/2024 11:08:23 PM
Rodney D. Riley, P.E.
MO-C06627

DATE PREPARED
28-Oct-2024

ROUTE 67
DISTRICT BR

STATE MO
SHEET NO. 10

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10722

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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JACOBS

JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA, DR. WEST SUITE 400
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PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

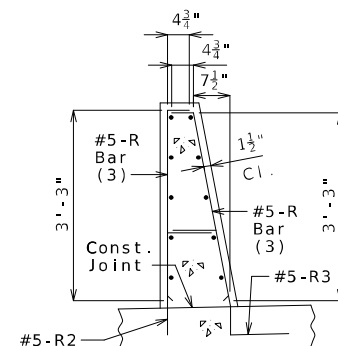
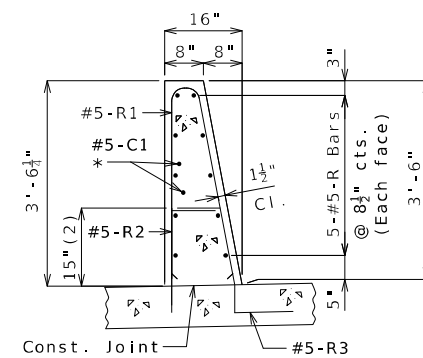
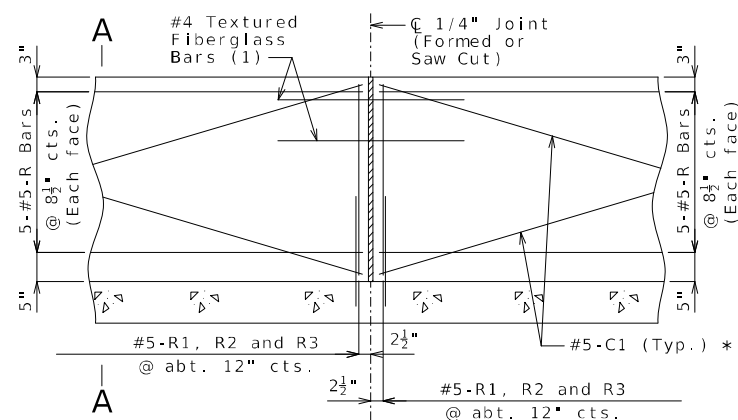
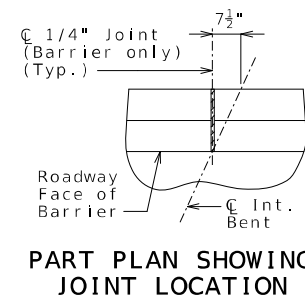
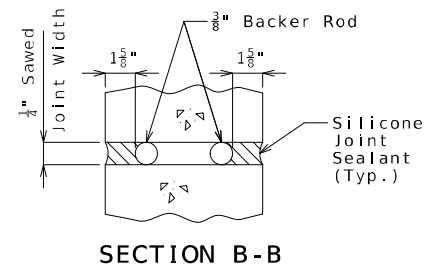
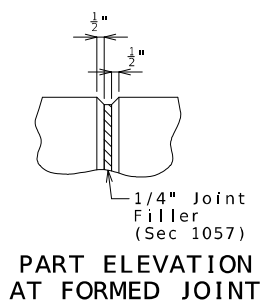
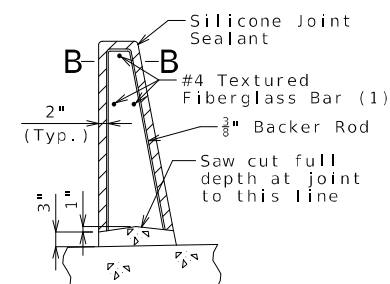
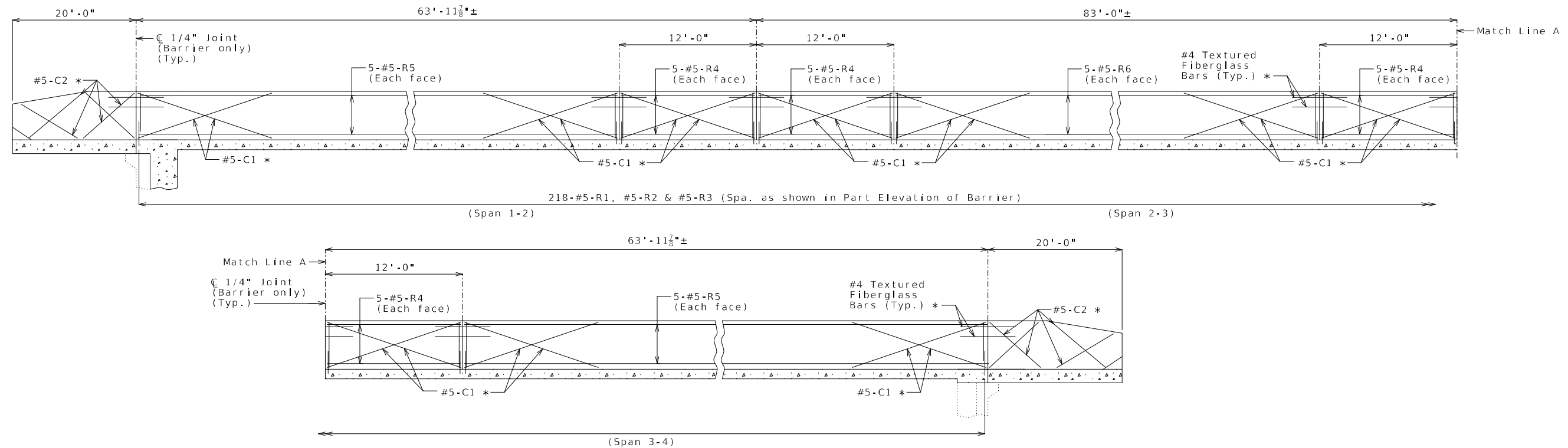
Detailed: Sept. 2024
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SLAB DRAINS
Note: This drawing is not to scale. Follow dimensions.
Sheet No. 10 of 16

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TYPE D BARRIER

General Notes:

* 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 1/2-inch radius or a 3/8-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.

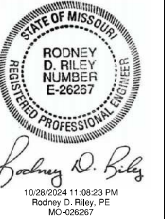
Concrete in barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of bridge approach slab to end of bridge approach slab.

Concrete traffic barrier delineators shall be faced 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.



DATE PREPARED _____

28-Oct-2024

ROUTE	STATE
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DISTRICT	SHEET NO.
RR	11

BR	11
COUNTY	

COUNTY
ST LOUIS

ST LOUIS

JOB NO.

J6S3669

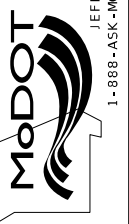
CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10722

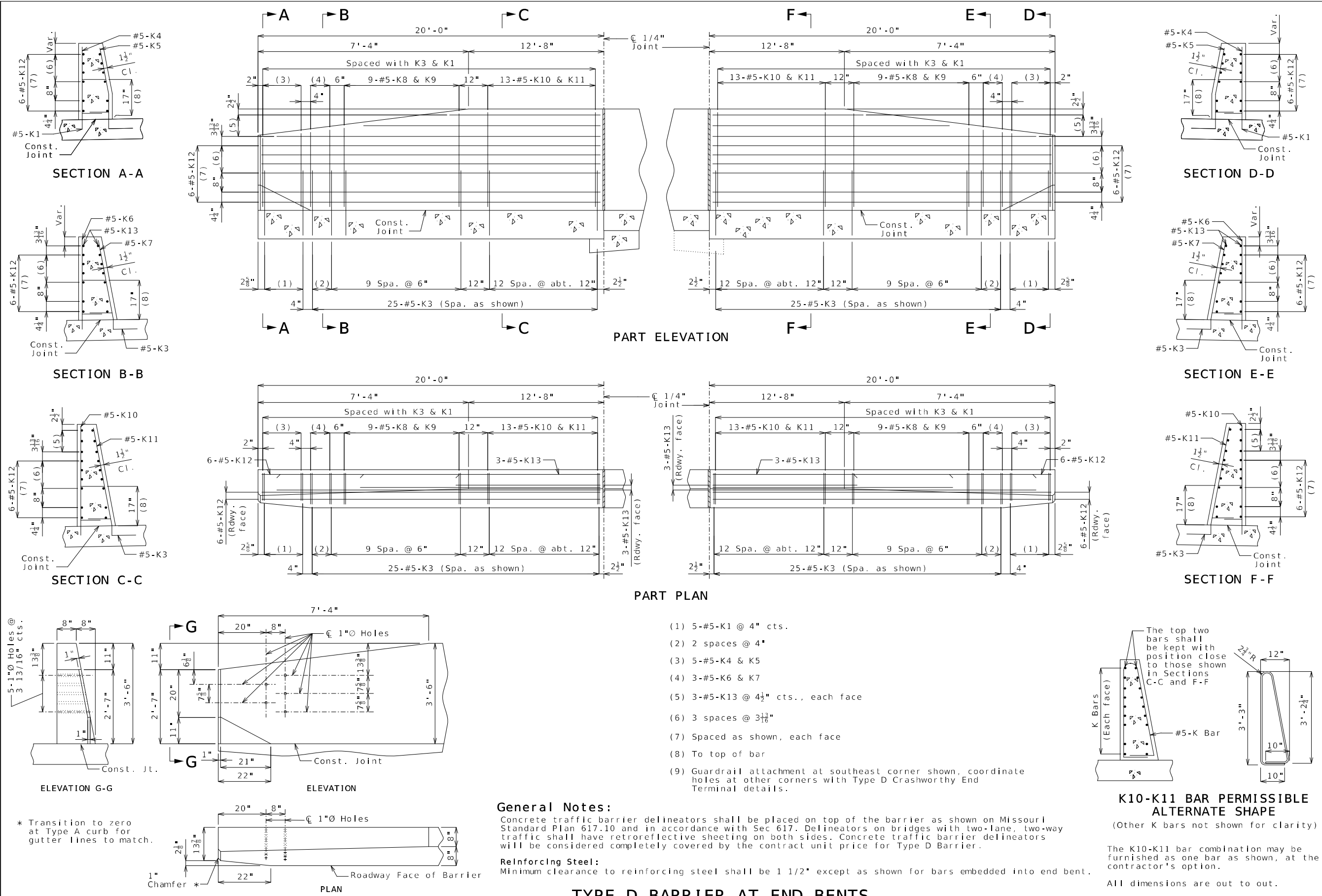
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COMMISSION



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Jacobs
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Detailed: Sept. 2024
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Sheet No. 12 of 16

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STATE OF MISSOURI
RODNEY D. RILEY
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10/28/2024 11:08:23 PM
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MO-C06807

DATE PREPARED
28-Oct-2024

ROUTE
67

DISTRICT
BR

STATE
MO

SHEET NO.
12

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10722

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

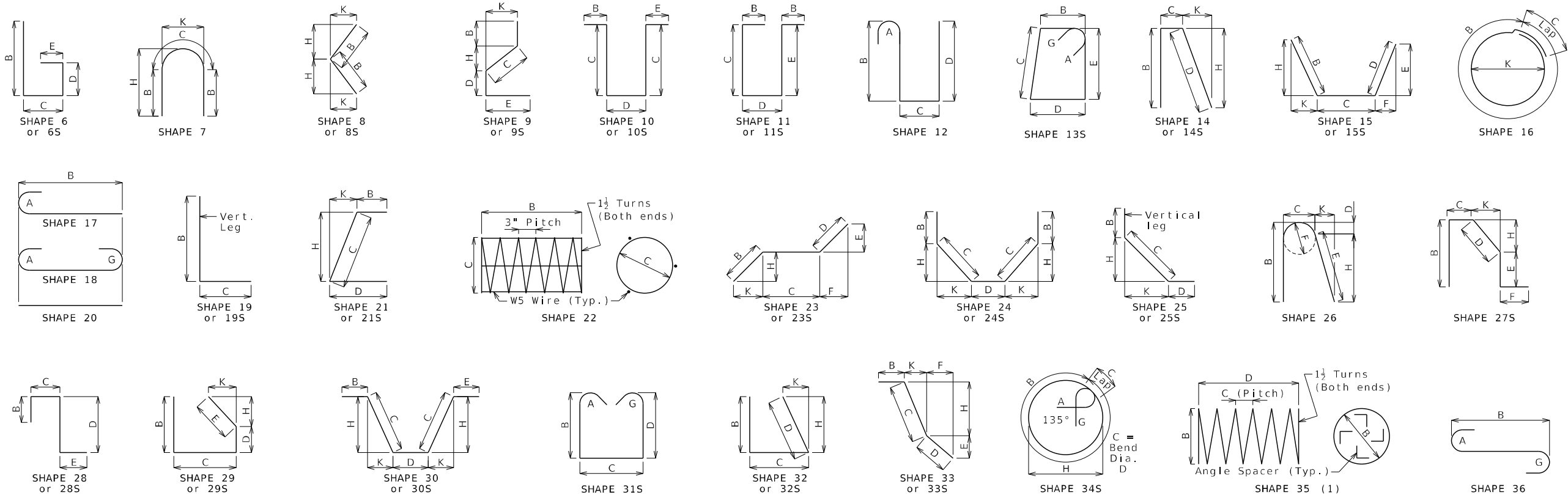
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105 WEST CAPITAL
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1-888-ASK-MODOT (1-888-275-6636)

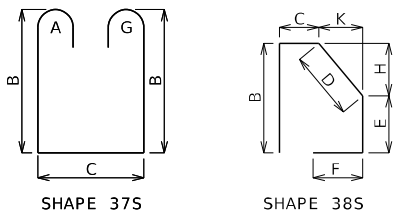
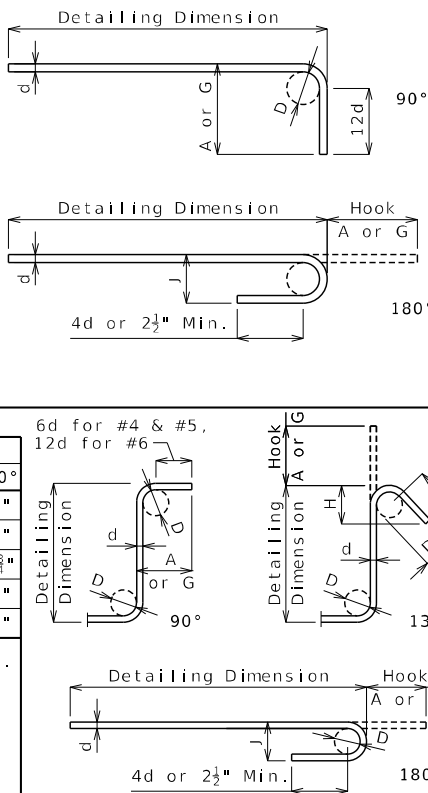
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REV.



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	3 ³ / ₄ "	10"	7"	5"	
#6	1	4 ¹ / ₂ "	12"	8 ¹ / ₄ "	6"	
#7	2	5 ¹ / ₄ "	14"	9 ³ / ₄ "	7"	
	3	7"	15"	11 ¹ / ₂ "	8 ³ / ₄ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 ¹ / ₄ "	10"	
#9	1	9 ¹ / ₂ "	19 ¹ / ₂ "	15 ¹ / ₂ "	11 ³ / ₄ "	
#10	1	10 ³ / ₄ "	22"	17 ¹ / ₂ "	13 ¹ / ₄ "	
#11	1	12"	24 ¹ / ₂ "	19 ¹ / ₂ "	14 ⁷ / ₈ "	
#14	1	18 ¹ / ₄ "	31 ¹ / ₄ "	27 ¹ / ₂ "	21 ³ / ₈ "	
#18	1	24"	41 ¹ / ₂ "	36 ¹ / ₄ "	28 ¹ / ₂ "	
Stirrup Pin Bend Shapes (S)						
Size	Case	D	A or G		H	
			90°	135°	180°	
#4	2	2"	4 ¹ / ₂ "	4 ¹ / ₂ "	5"	2 ⁷ / ₈ "
	3	3"	5"	5 ¹ / ₄ "	6"	3"
#5	2	2 ¹ / ₂ "	5 ³ / ₄ "	5 ³ / ₄ "	5 ³ / ₄ "	3 ³ / ₈ "
	3	3 ³ / ₄ "	6 ¹ / ₄ "	6 ¹ / ₄ "	7"	3 ⁷ / ₈ "
#6	1	4 ¹ / ₂ "	12"	7 ³ / ₄ "	8 ¹ / ₄ "	4 ⁵ / ₈ "
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.						



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	
	Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
			Plain	Epoxy				
W5	0	0	0	0	0	0	0	0
4	0	0	0	2,036	0	0	0	2,036
5	0	0	0	66,190	12,983	635	0	79,808
6	0	0	0	56,502	0	0	0	56,502
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	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	0	0	0	124,728	12,983	635	0	134,346

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed: Sept. 2024
Checked: Sept. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 15 of 16

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STATE OF MISSOURI
ROONEY D. RILEY
REGISTERED PROFESSIONAL ENGINEER
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10/28/2024 11:08:24 PM
Rooney D. Riley, P.E.
MO-C06827

DATE PREPARED
28-Oct-2024

ROUTE
67

DISTRICT
BR

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10722

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITAL
JEFFERSON CITY, MO 65102
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REV.

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Required Lap Length For Bar Splices (1)	
Bar Size	Splice Length
4	2'-8"
5	3'-4"
6	4'-0"
7	4'-8"

(1) Unless otherwise shown.

Table Showing S6 Bar Lengths			
Int. Bent No. 2		Int. Bent No. 3	
Span 1	Span 2	Span 2	Span 3
15'-6"	15'-6"	15'-6"	15'-6"

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.)
Standard Specifications

Design Loading:

HS20-44
35 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:

Class B-1 Concrete
Class B-2 Concrete (End Bents, Superstructure, except Barrier)
Reinforcing Steel (ASTM A615 Grade 60)
Structural Carbon Steel (ASTM A709 Grade 36)

f'c = 4,000 psi

f'c = 4,000 psi

fy = 60,000 psi

fy = 36,000 psi

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.

Miscellaneous:

The top, sides and bottom of the top flanges of existing steel girders shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mills before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Bars bonded in existing concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, existing bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

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

Longitudinal dimensions are based on original plans.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710.

Traffic Handling:

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

Resin Anchor Systems:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pull out strength in accordance with Sec 1039 but shall not be less than 5".

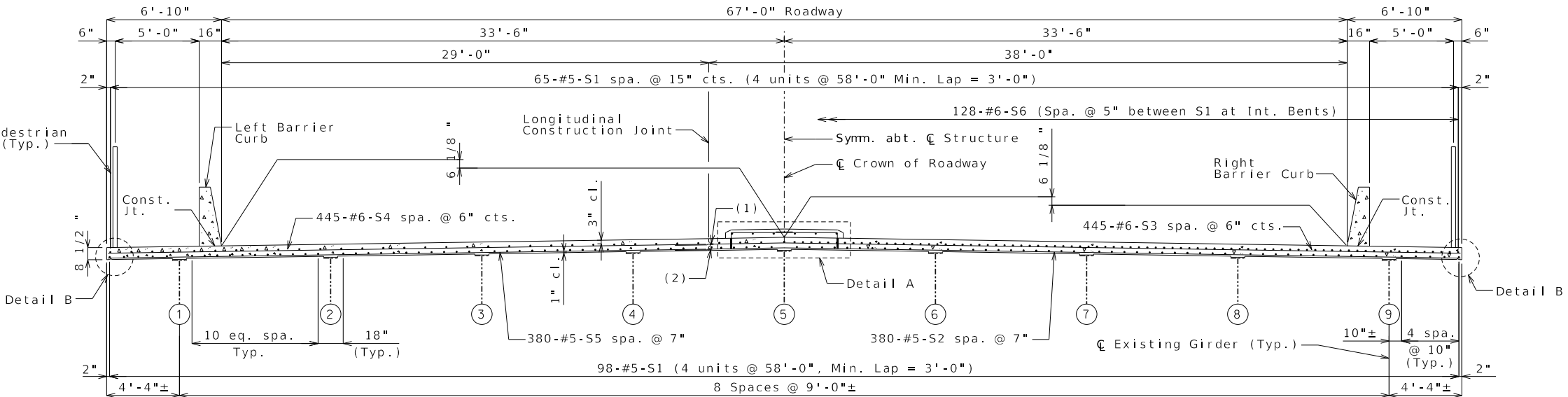
Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Raised Median Barrier.

An epoxy coated #4 Grade 60 reinforcing bar 4'-5" long shall be substituted for the 1/2"Ø threaded rod.

U.I.P., REDECK, STRENGTHEN AND REHABILITATE EXISTING (66'-87'-66') CONTINUOUS COMPOSITE PLATE GIRDER SPANS

SEC/SUR 104&1202 TWP 47N

RGE 6E



HALF SECTION NEAR MIDSPAN

MBS = Mechanical Bar Splice

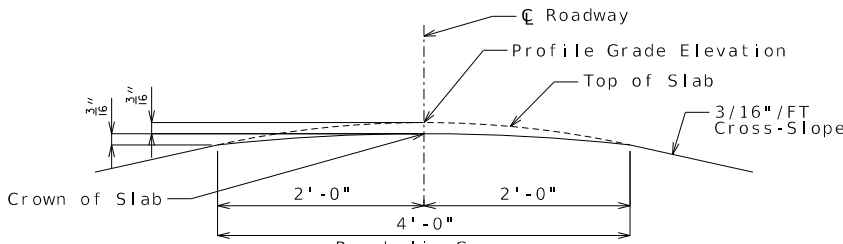
(1) 445-#6-MBS S3-S4, 4-#6-MBS H106-H107
& 4-#6-MBS H400-H401

(2) 380-#5-MBS S2-S5

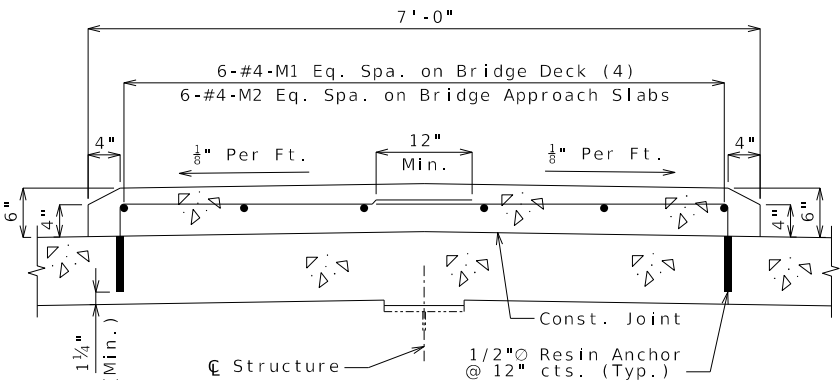
HALF SECTION NEAR INT. BENT

TYPICAL SECTION THRU SLAB

(Looking Ahead Station, Slab Drains Not Shown)



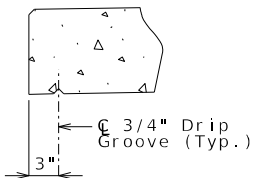
PARABOLIC CROWN DETAIL



Mountable Class Median

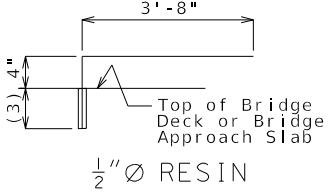
DETAIL A

(4) 6 units @ 38'-9", Min. Lap = 23"
The cost of the M1 and M2 bars, complete in place, will be considered completely covered by the contract unit price for Raised Median Barrier.



DETAIL B

(3) Manufacturer's recommended embedment length (5" Min.)



ANCHOR DETAIL

(526 required, epoxy coated)

Estimated Quantities

Item	Total
Removal of Miscellaneous ACM (Non-Friable)	sq. foot 20
Temporary Shoring	lump sum 1
Removal of Existing Bridge Deck	sq. foot 18,516
Repair Existing Approach Haunch	linear foot 36
Remove and Replace Approach Haunch	linear foot 36
Bridge Approach Slab (Major)	sq. yard 359
(72 in.) Pedestrian Fence - Black Vinyl Coated	linear foot 525
Slab on Steel	sq. yard 1,993
Type D Barrier	linear foot 525
Raised Median Barrier	sq. foot 1,836
Substructure Repair (Unformed)	sq. foot 50
Mechanical Bar Splice	each 849
Strengthening Existing Beams	lump sum 1
Slab Drain	each 40
Surface Preparation for Overcoating Structural Steel (System G)	sq. foot 2,800
Intermediate Field Coat (System G)	sq. foot 2,800
Finish Field Coat (System G)	sq. foot 2,800
Vertical Drain at End Bents	each 2
Open Cell Foam Joint Seal	linear foot 81

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Estimated Quantities for Slab on Steel

Item	Total
Class B-2 Concrete	cu. yard 527
Reinforcing Steel (Epoxy Coated)	pound 147,860

The table of Estimated Quantities for Slab on Steel 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 stay-in-place corrugated steel forms 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 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 forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

REPAIRS TO BRIDGE:

ROUTE 67 OVER COLDWATER CREEK

ROUTE 67 FROM ROUTE AC TO ROUTE 367
ABOUT 0.5 MILE NORTHEAST OF ROUTE AC
BEGINNING STATION 251+00.90± (MATCH EXISTING)

Detailed Sep. 2024
Checked Sep. 2024

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

Sheet No. 1 of 16

pw://jacobs-us-va-pw.bentley.com: jacobs-us-va-pw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_001_J6S3669_REDECK01.dgn



DATE PREPARED
20-Jan-2025
ROUTE 67
DISTRICT BR
COUNTY ST LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10742

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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General Notes:
Stay-In-Place Forms:
Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Overcoating Existing Steel:
Protective Coating: System G in accordance with Sec. 1081.

The field coating limits shall include the facia girders in accordance with Sec 1081.10.3.4.2.

Surface preparation: Surface preparation of the existing steel shall be in accordance Sec 1081 for Overcoating of Structural Steel. The cost of surface preparation will be considered completely covered by the contract unit price per sq. foot for Surface Preparation for Overcoating Structural Steel (System G).

Field Coat(s): The color of the field overcoat shall be Grey (Federal Standard #26373) shall be applied with Sec 1081.10.3.4. The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for Intermediate Field Coat (System G). The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for Finish Field Coat (System G).

All exposed surfaces (non-contact surfaces) of the strengthening web stiffener plates, not included in the overcoating limits, shall be coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils. The cost of the epoxy-mastic primer will be considered completely covered by the contract lump sum price for Strengthening Existing Beams.

Pouring and Finishing Slab:
The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

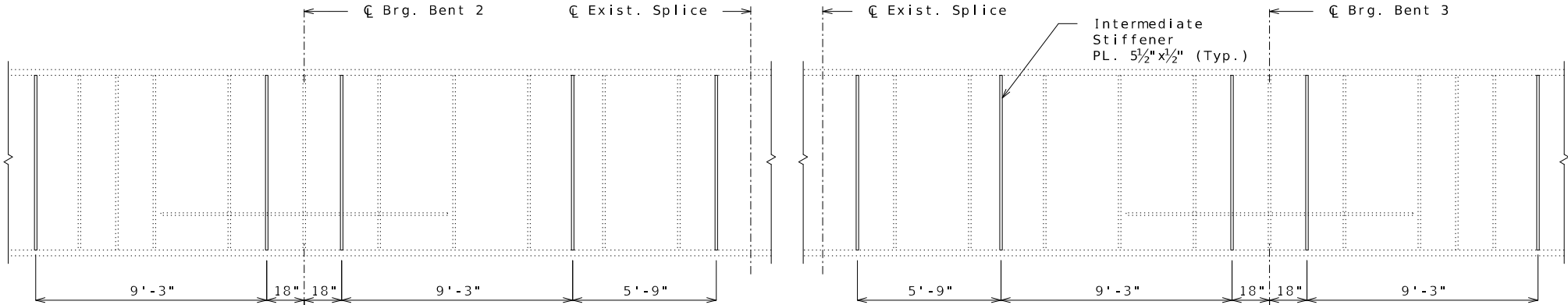
The contractor shall pour and satisfactorily finish the slab pours at a minimum rate of 51 cubic yards per hour without retarder. Slab shall be poured upgrade from end to end.

Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

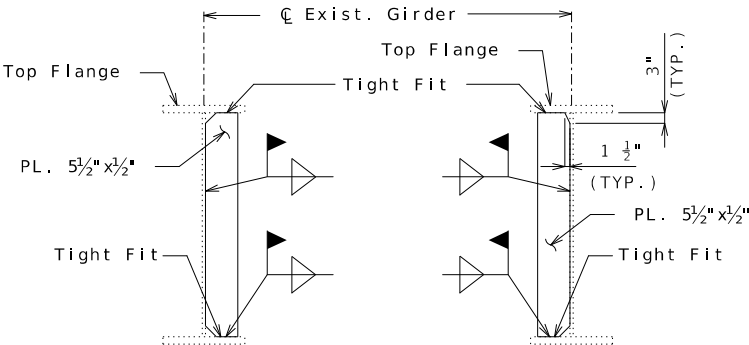
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

For adjusted girder deflection due to weight of new deck and barriers, see Bridge Electronic Deliverables.

Haunching:
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

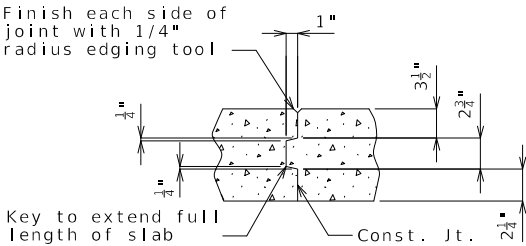


PART ELEVATION GIRDERS (2 TO 8) SHOWING WEB STIFFENERS

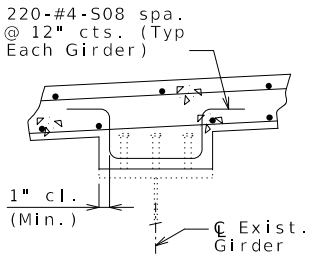


INTERMEDIATE WEB STIFFENER (GIRDERS 2 & 8) INTERMEDIATE WEB STIFFENER (GIRDERS 3 TO 7)

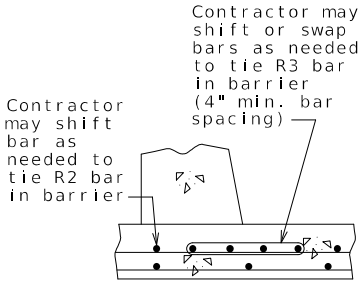
WELDING DETAILS (Looking Upstation)



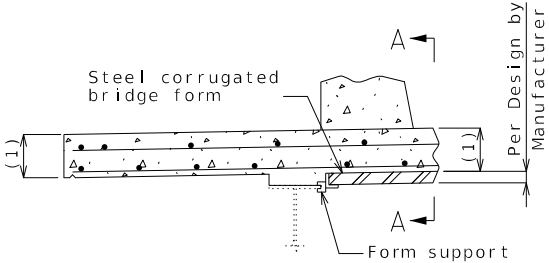
LONGITUDINAL SLAB JOINT



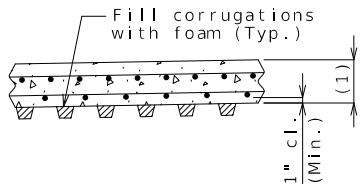
SECTION THRU HAUNCH



OPTIONAL SHIFTING TOP BARS AT BARRIER



OPTIONAL STAY-IN-PLACE FORM DETAILS



SECTION A-A

NOTES AND REPAIR DETAILS

Detailed Sep. 2024
Checked Sep. 2024

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

Sheet No. 2 of 16

pw://jacobs-us-vapw.bentley.com:jacobs-us-vapw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_002_J6S3669_REDECK02.dgn



DATE PREPARED
28-Oct-2024
ROUTE 67 STATE MO
DISTRICT BR SHEET NO. 2

COUNTY
ST LOUIS
JOB NO.
J6S3669
CONTRACT ID.

PROJECT NO.
BRIDGE NO.
A10742

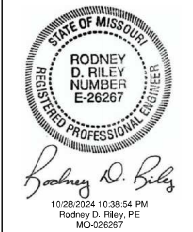
DESCRIPTION	DATE

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
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#00704

21:45 28-OCT-2024


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DATE PREPARED 28-Oct-2024	
ROUTE 67	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY ST LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10742	

DESCRIPTION	DATE

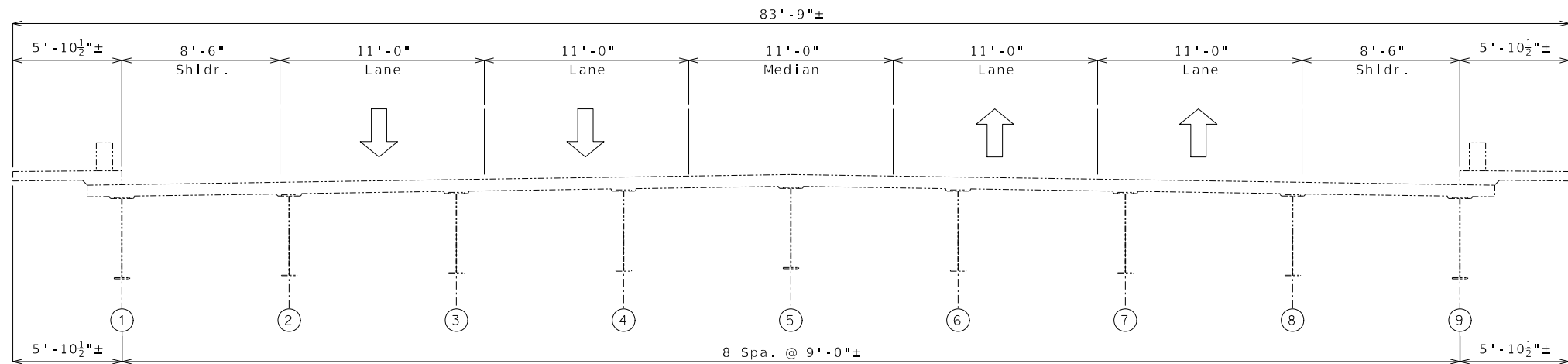
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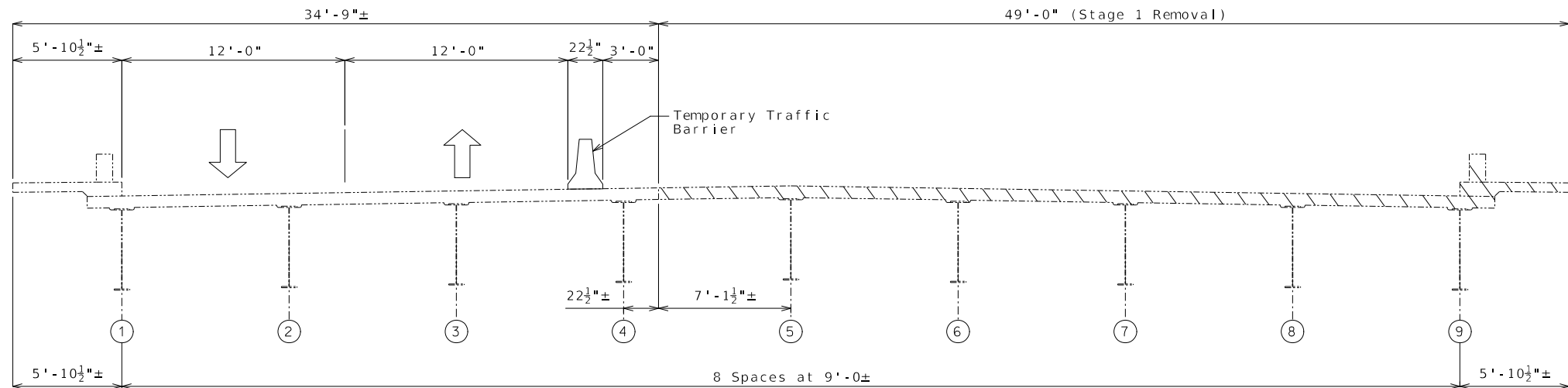
105 WEST CAPITOL
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1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



EXISTING
(Looking Ahead Station)



STAGE 1 - DEMOLITION
(Looking Ahead Station)

NOTE:
Existing bolts on intermediate diaphragms and cross frames that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightended after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

CONSTRUCTION STAGING (1 OF 3)

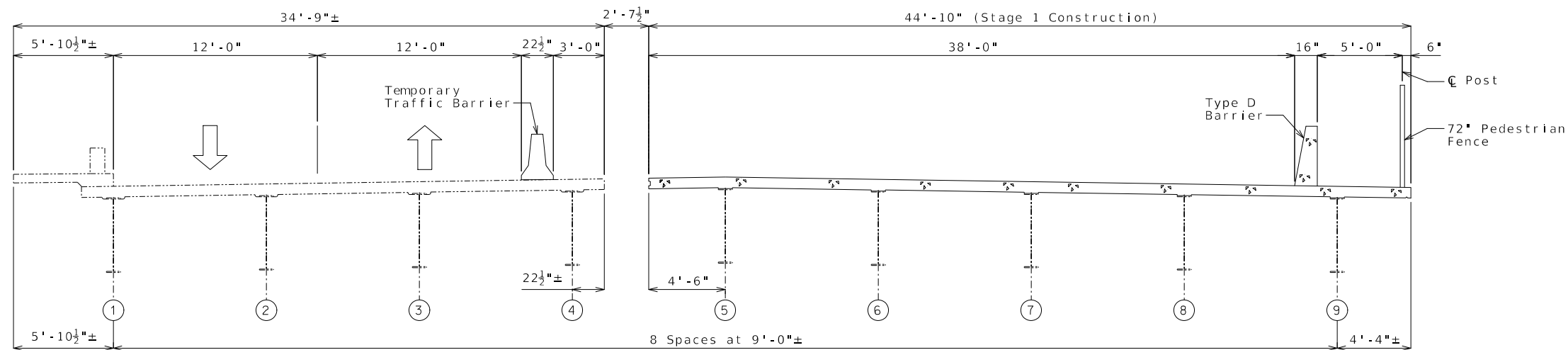
Detailed Sep. 2024
Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 3 of 16

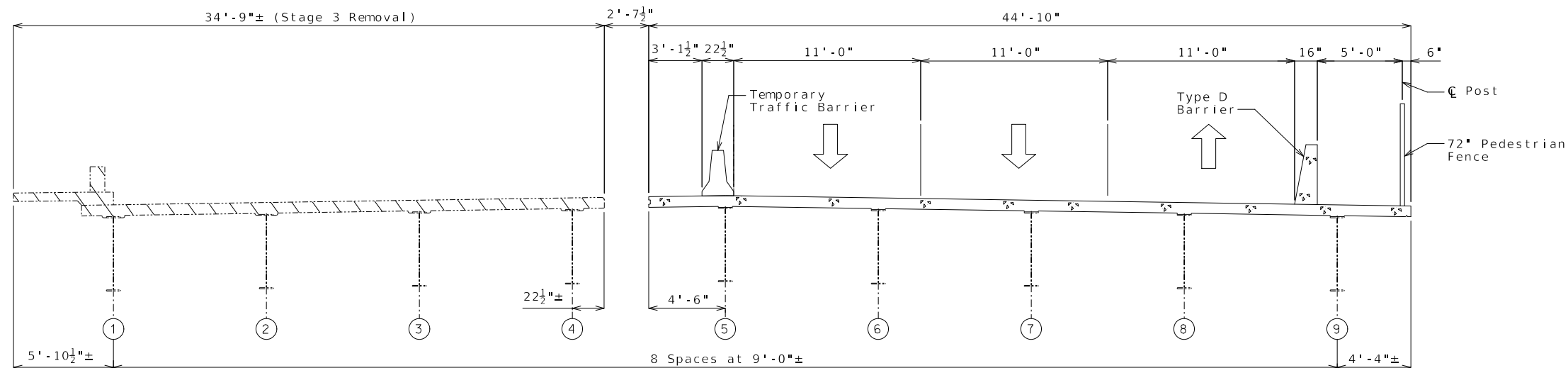
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REV.



STAGE 2 - CONSTRUCTION
(Looking Ahead Station, Slab Drains Not Shown)



STAGE 3 - DEMOLITION
(Looking Ahead Station, Slab Drains Not Shown)

NOTE:
Existing bolts on intermediate diaphragms and cross frames that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

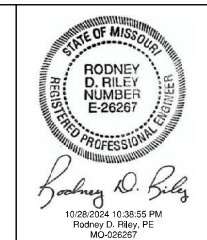
CONSTRUCTION STAGING (2 OF 3)

Detailed Sep. 2024
Checked Sep. 2024

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

Sheet No. 4 of 16

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DATE PREPARED 28-Oct-2024	
ROUTE 67	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY ST LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10742	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

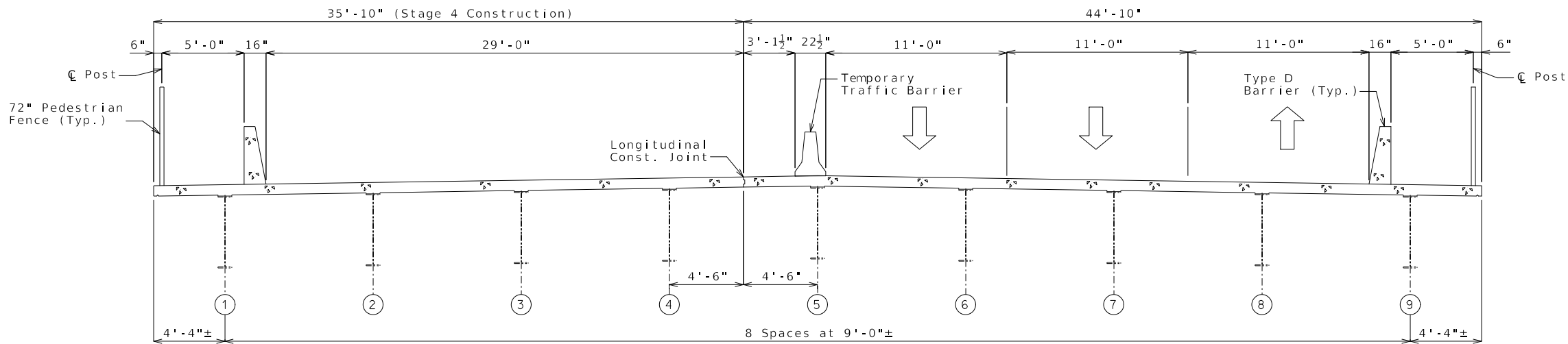
105 WEST CAPITOL
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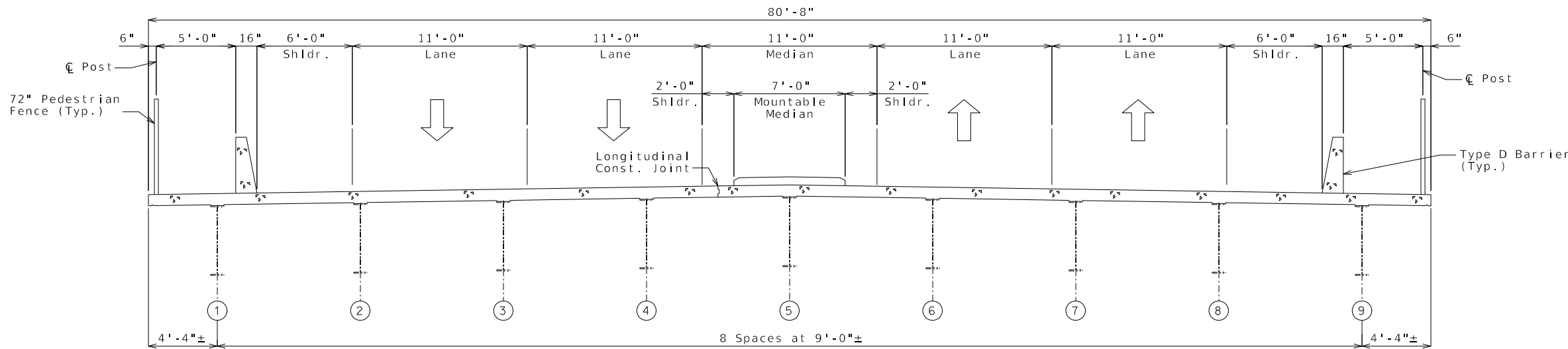
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STAGE 4 - CONSTRUCTION
(Looking Ahead Station, Slab Drains Not Shown)



FINAL
(Looking Ahead Station, Slab Drains Not Shown)

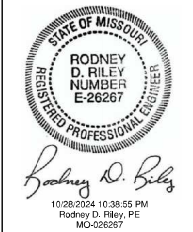
NOTE :
Existing bolts on intermediate diaphragms and cross frames that connect girders under different construction staged slab pours shall be removed and replaced with new in kind high strength bolts installed snug tight and in accordance with Sec 712. The high strength bolts shall be tightened after both adjacent slab pours are completed. Cost will be considered incidental to other pay items.

CONSTRUCTION STAGING (3 OF 3)

Detailed Sep. 2024
Checked Sep. 2024

Note: This drawing is not to scale. Follow dimensions. Sheet No. 5 of 16

pw://jacobs-us-vapw.bentley.com:jacobs-us-vapw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_005_J6S3669_Construction_Staging_3.dgn



DATE PREPARED 28-Oct-2024	
ROUTE 67	STATE MO
DISTRICT BR	SHEET NO. 5
COUNTY ST LOUIS	
JOB NO. J6S3669	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10742	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

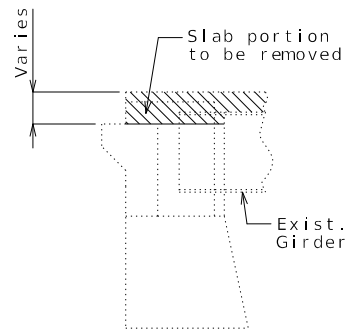
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JEFFERSON CITY, MO 65102
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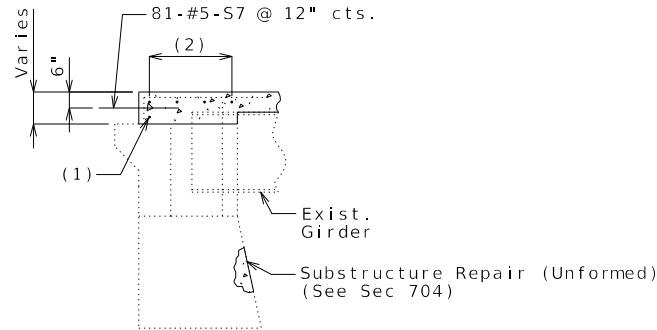
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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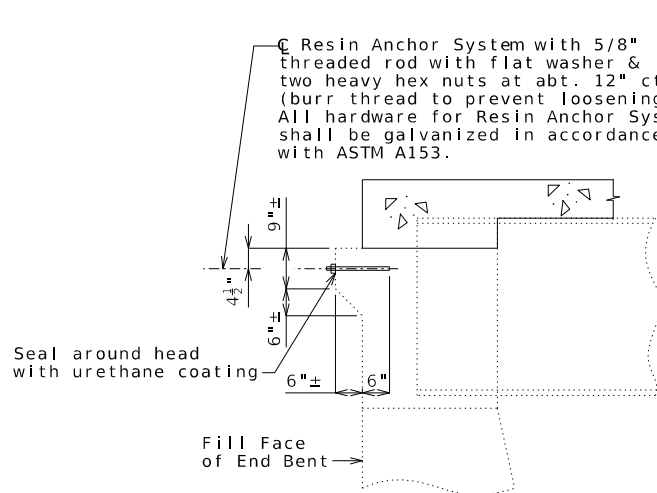
REV.



PART SECTION SHOWING SLAB
REMOVAL AT END BENT NO. 4

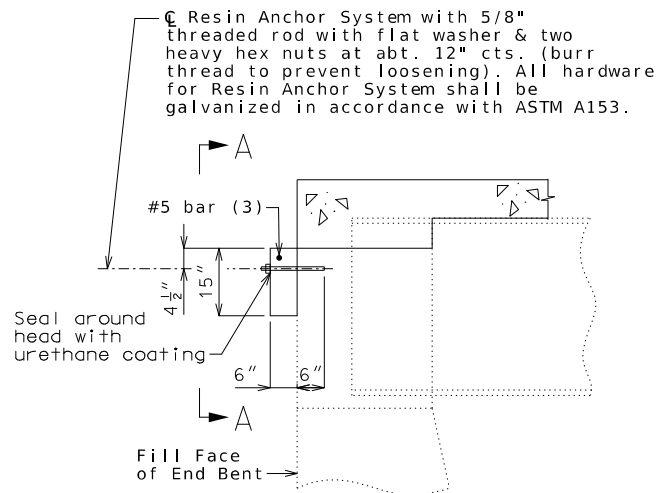


PART SECTION THRU SLAB
AT END BENT NO. 4



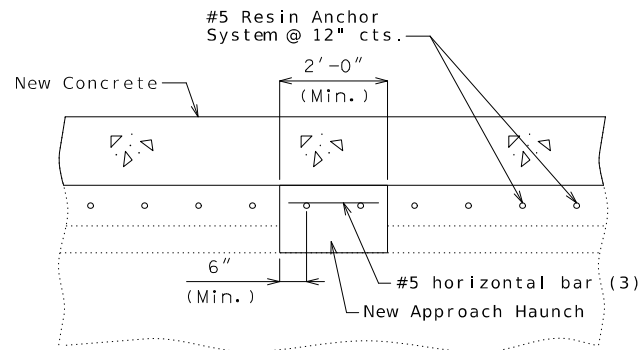
PART SECTION THRU END BENT NO. 4
WITH APPROACH HAUNCH REPAIR

Cost of furnishing and installing anchor systems for approach haunch repair, complete in place, will be considered completely covered by the contract unit price for Repair Existing Approach Haunch.



PART SECTION THRU END BENT NO. 4
WITH APPROACH HAUNCH REPLACEMENT

Cost of concrete removal, furnishing and installing anchor systems, concrete and reinforcement for approach haunch replacement will be considered completely covered by the contract unit price for Remove and Replace Approach Haunch.



PART ELEVATION A-A

Notes:

Remove and replace deteriorated sections of approach haunch as designated by the engineer and in accordance with details shown.

Minimum length of replacement shall be 2'-0" as shown.

Removal of concrete shall be in accordance with Sec 216.

Concrete for approach haunch replacement shall be Class B-1.

- (1) 1-#6-H400 spliced with 1-#6-H401 at End Bent No. 4.
- (2) 4-#6-H400 spliced with 4-#6-H401 at End Bent No. 4.
- (3) Haunch reinforcing bars are not included in the Bill of Reinforcing Steel. Quantity and length of haunch reinforcing bars will be as directed by the engineer.

Detailed: Oct. 2024
Checked: Oct. 2024

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

Sheet No. 6 of 16

pw://jacobs-us-va-pw.bentley.com:jacobs-us-va-pw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_006_J6S3669_END BENTS NO 1 & 4.dgn

END BENT NO. 4



DATE PREPARED
28-Oct-2024
ROUTE 67
STATE MO
DISTRICT BR
SHEET NO. 6
COUNTY ST LOUIS
JOB NO. J6S3669
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10742

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

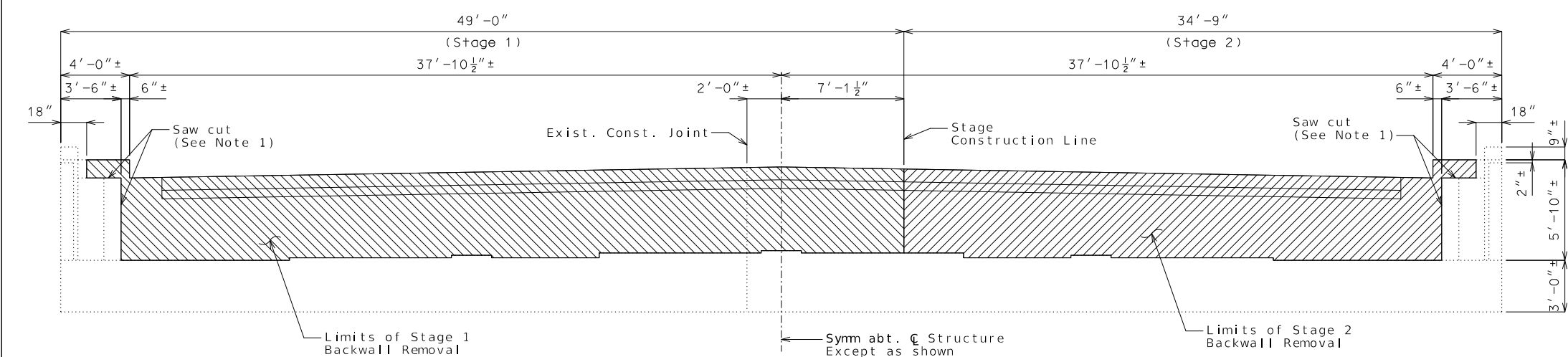
MoDOT

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JEFFERSON CITY, MO 65102
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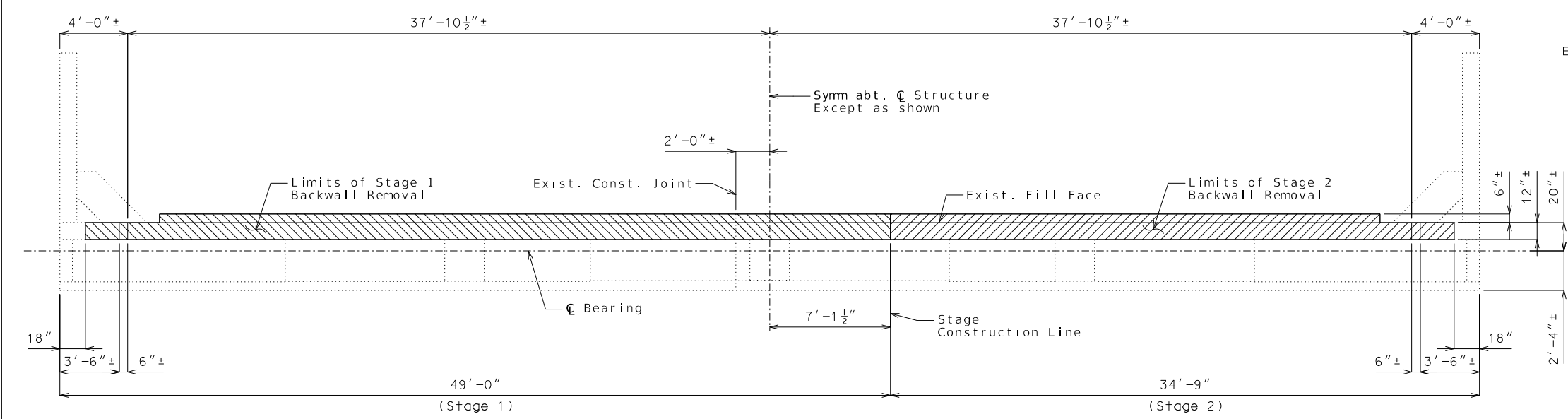
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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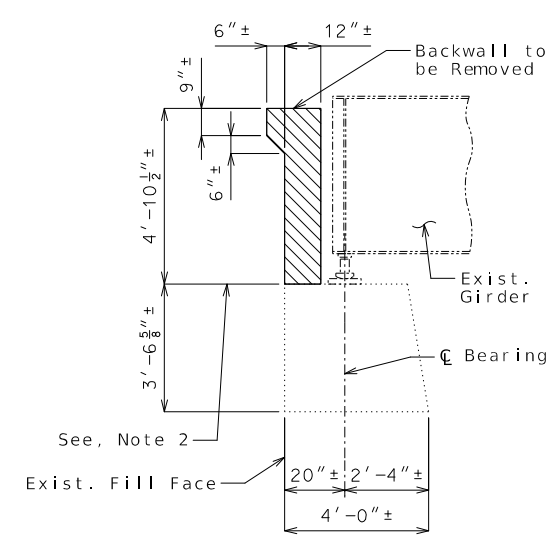
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ELEVATION OF DEMOLITION
Existing Girders and Slab not shown for clarity.



PLAN OF DEMOLITION



SECTION AT C BENT

- General Notes:
1. Cut reinforcing flush with Saw cut line.
 2. Cut reinforcing flush with Top of Cap Beam.
 3. The cost to remove the barrier curb and railing will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck, unless noted otherwise.

END BENT NO.1 DEMOLITION

Detailed Sep. 2024
Checked Sep. 2024

STATE OF MISSOURI
RODNEY D. RILEY
NUMBER
E-26267
REGISTERED PROFESSIONAL ENGINEER

Rodney D. Riley
10/28/2024 10:38:55 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
28-Oct-2024

ROUTE
67

DISTRICT
BR

STATE
MO

SHEET NO.
7

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10742

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

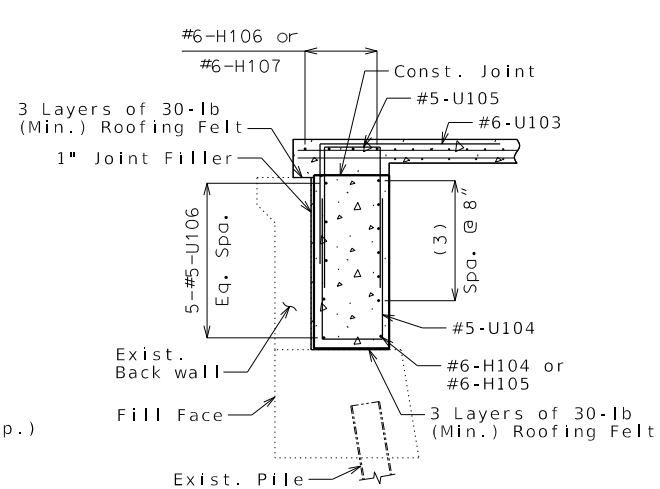
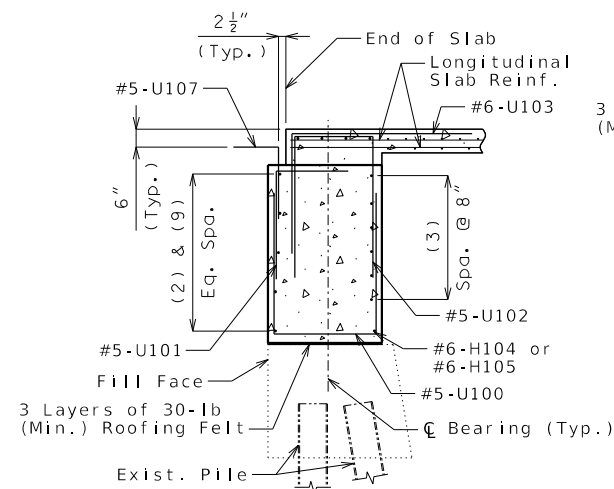
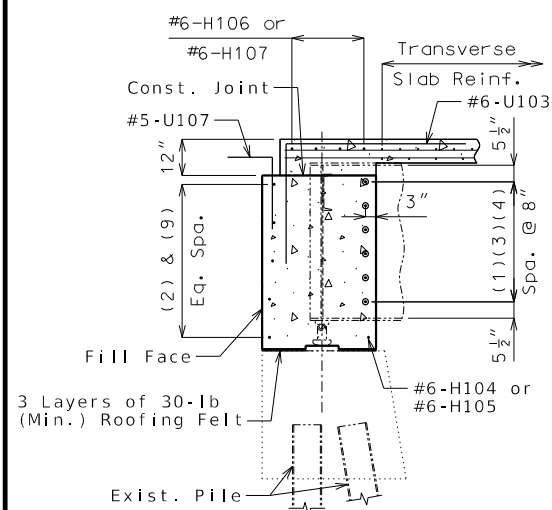
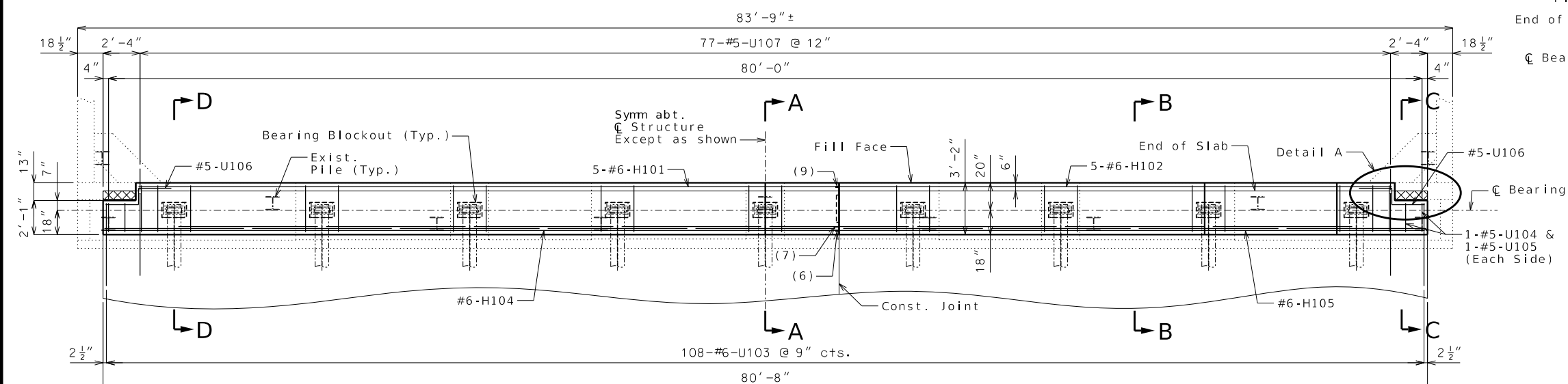
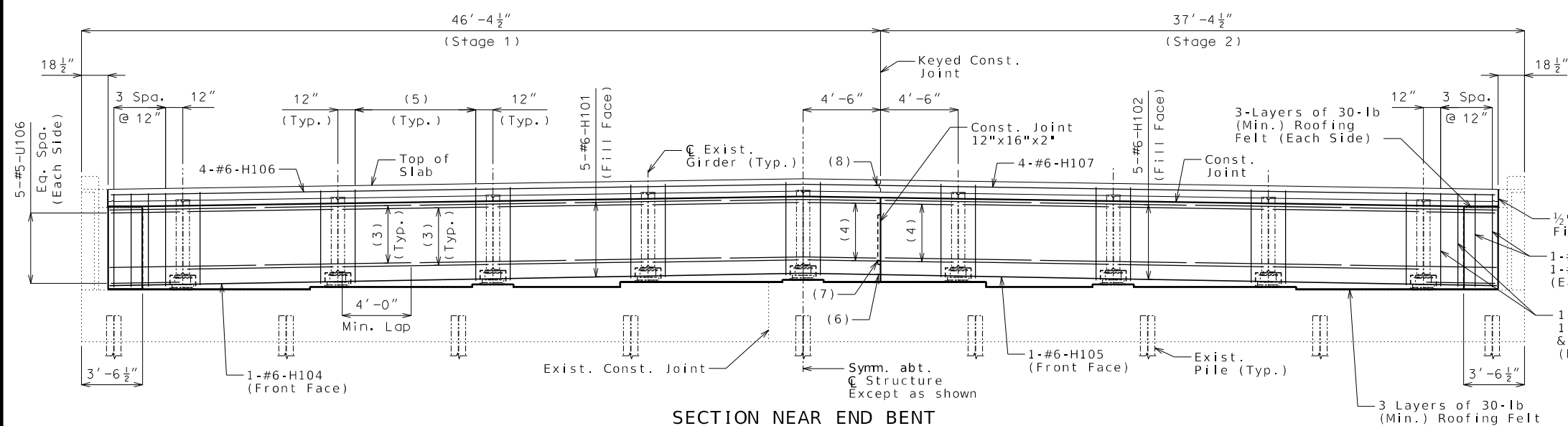
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

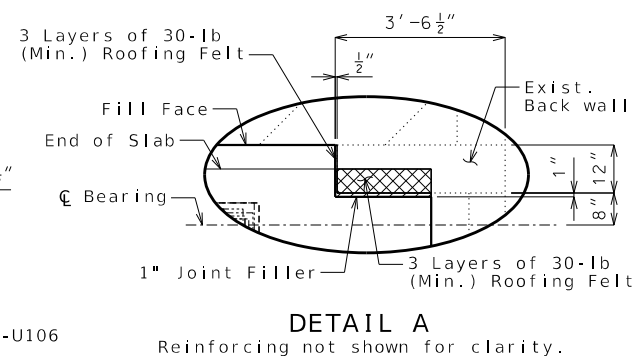
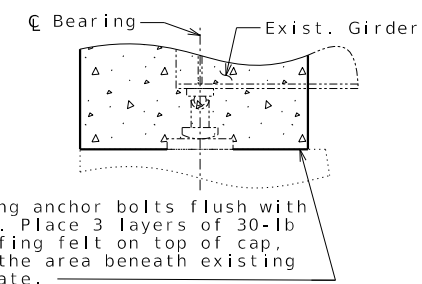
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

21:53 28-OCT-2024

REV.



END BENT NO. 1



- Notes:

MBS = Mechanical Bar Splice

- (1) Field drill 6-1 1/8"Ø holes in existing girder webs @ 8". Cost of field drilling holes in existing plate girder webs will be considered completely covered by the contract unit price for Slab on Steel.
- (2) 5-#6-H101 or 5-#6-H102 equally spaced.
- (3) 6-#6-H100 (Front Face) (Typ. btwn girders and thru girders, except as shown).
- (4) 6-#6-H103
- (5) 8-#5-U100, 8-#5-U101 & 8-#5-U102 @ 12" (Typ. btwn girders)
- (6) 1-MBS H104-H105
- (7) 6-MBS H103-H103
- (8) 4-MBS H106-H107
- (9) 5-MBS H101-H102
- (10) 0" at 60°F. Adjust by 1/16" for each 10°F fall or rise in temperature for 60°F at time of setting.

The exposed and accessible surfaces of the existing structural steel and bearings that will be encased in concrete shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The surface preparation and coating for girders shall extend a minimum of one foot outside the face of the girder encasement. Payment for cleaning and coating steel to be encased in concrete will be considered completely covered by the contract unit price for Slab on Steel.



Rodney D. Bile

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Rodney D. Riley, PE
MO 036267

DATE PREPARED

28-Oct-2024

20-000-2020	
ROUTE	STATE

ROUTE	STATE
67	MO

07	MO
DISTRICT	SHEET NO.

DISTRICT	SHEET
BR	8

BR	8
COUNTY	

COUNTY
ST LOUIS

ST LOUIS
LOB NO.

JOB NO.
1683660

J6S3669
CONTRACT ID

CONTRACT ID.							
PROJECT NO.							
BRIDGE NO.							
A10742							
DESCRIPTION							
DATE							

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

Jacobs
JACOBS ENGINEERING GROUP
001 HIGHLANDS PLAZA DR WEST SUITE 400
ST LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY

Detailed Sep. 2024
Checked Sep. 2024

Checked Sep. 2024

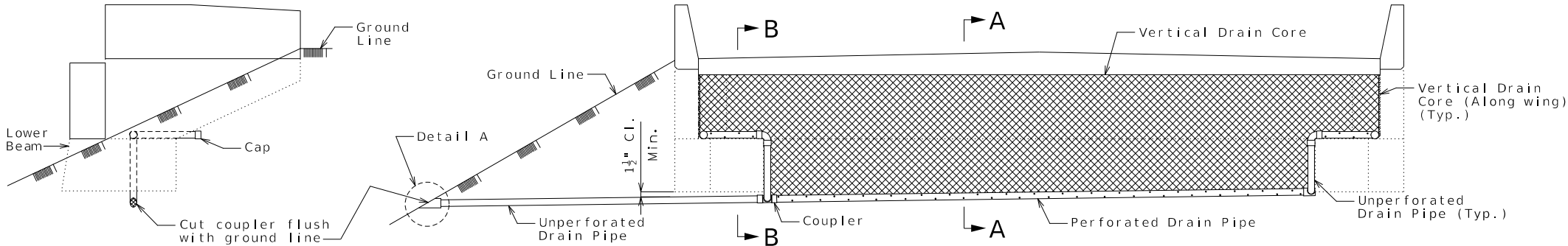
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Sheet No. 8 of 16

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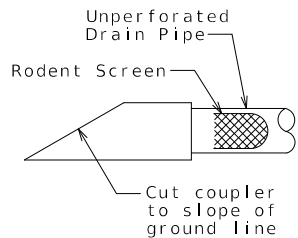
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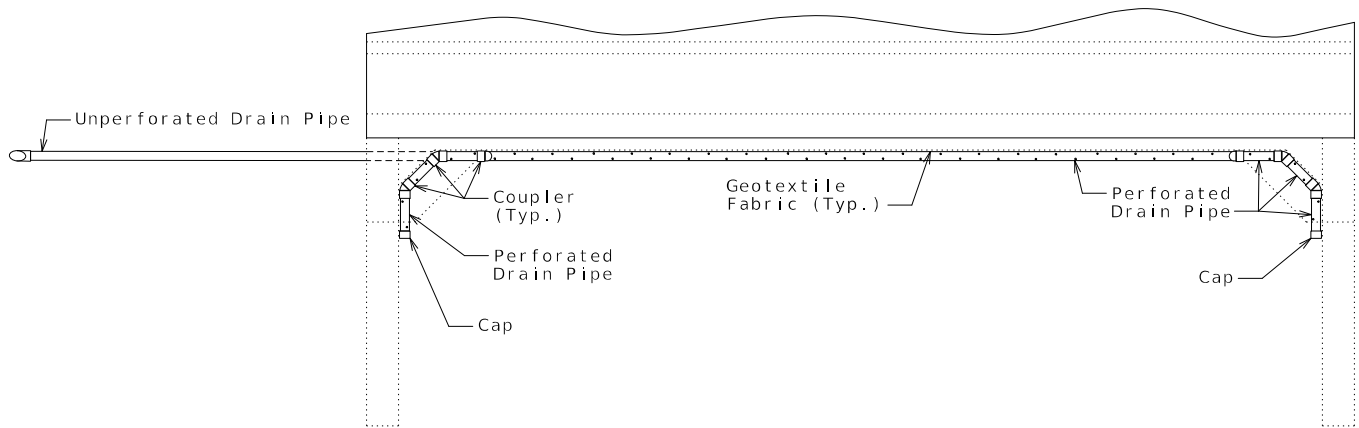


ELEVATION OF WING

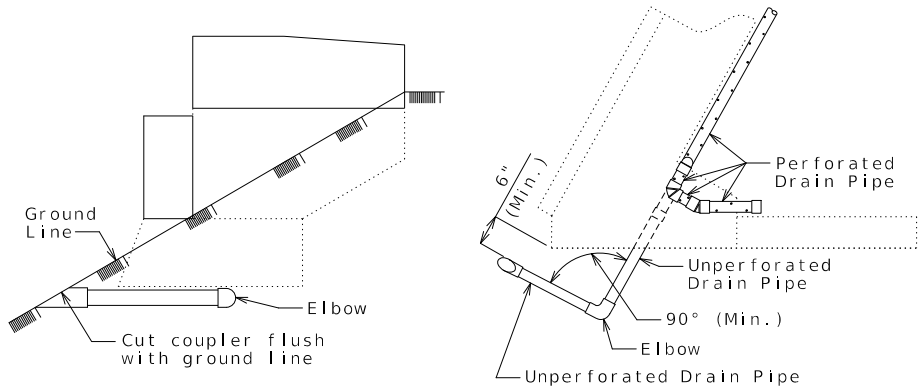
ELEVATION OF END BENT



DETAIL A



PLAN OF END BENT

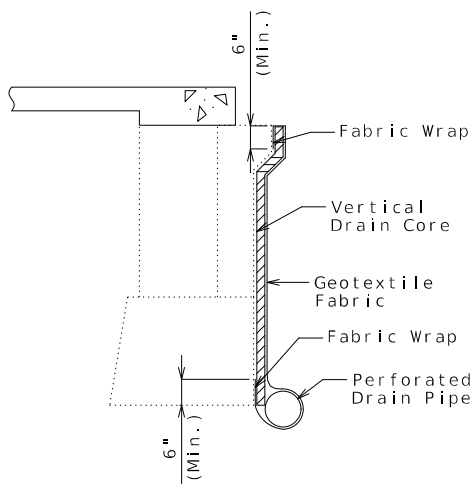


ELEVATION OF WING

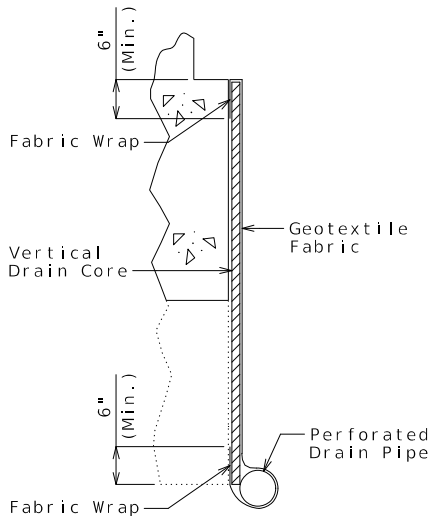
PART PLAN

OPTIONAL TURNED DRAIN

(Use only when straight drain is not practical.)



SECTION B-B



PART SECTION A-A
(Section thru wing similar)

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.

The cost to install the vertical drain, including any required excavation, will be considered completely covered by the contract unit price for Vertical Drain at End Bents.

Detailed: Sep. 2024
Checked: Sep. 2024

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

Sheet No. 9 of 16

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Rodney D. Riley, PE
MO-026267

DATE PREPARED
28-Oct-2024

ROUTE 67 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10742

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

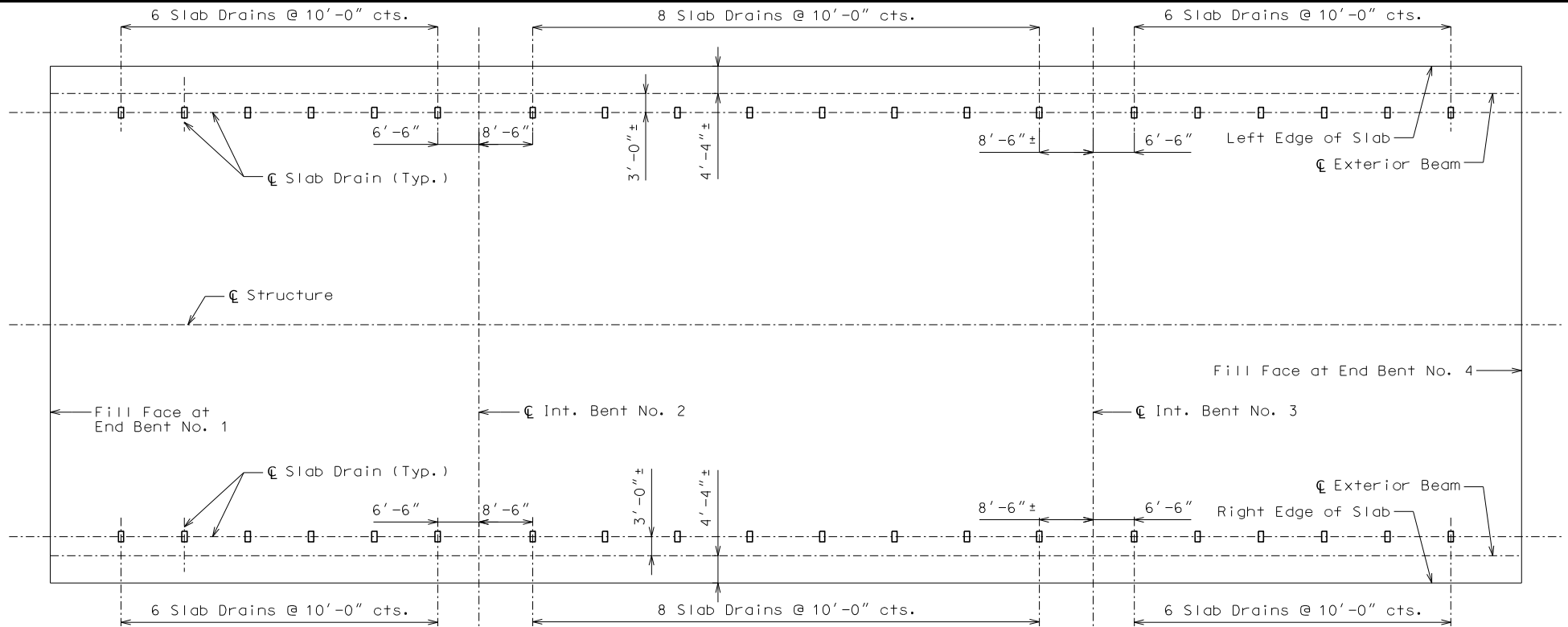
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

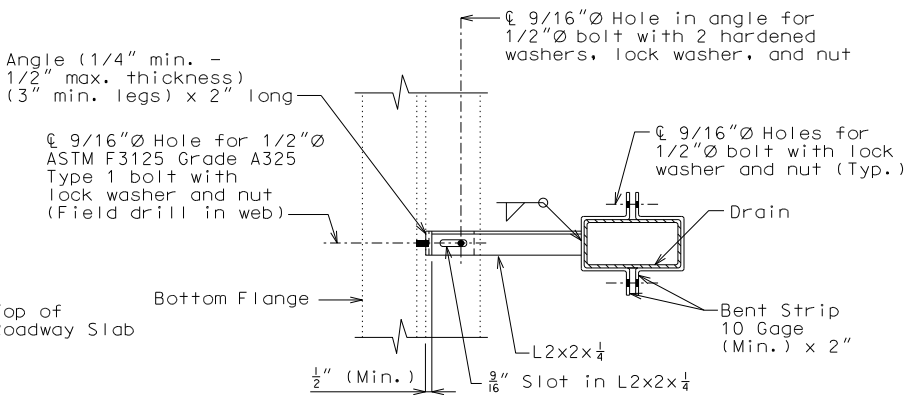
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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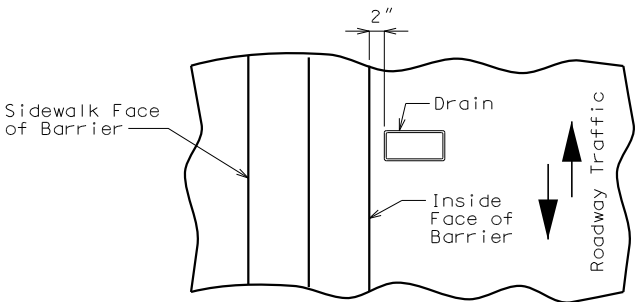
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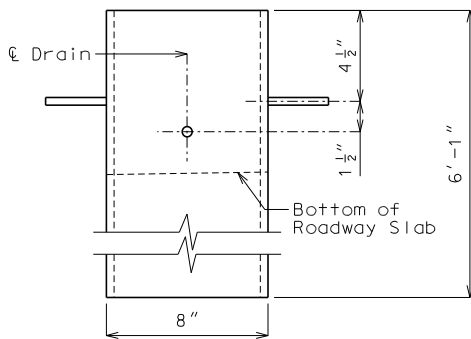
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



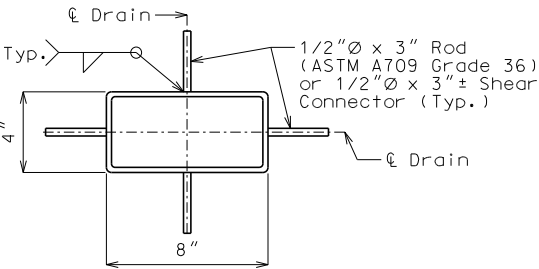
PART SECTION SHOWING BRACKET ASSEMBLY



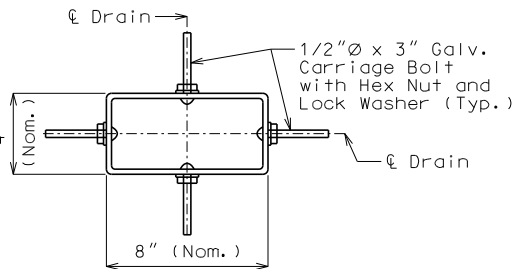
PART PLAN OF SLAB AT DRAIN



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 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, except as shown.

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

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

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 recommended by the manufacturer to ensure a smooth, chip free cut.



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Rodney D. Riley, PE
MO-026267

DATE PREPARED
28-Oct-2024

ROUTE 67 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10742

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP

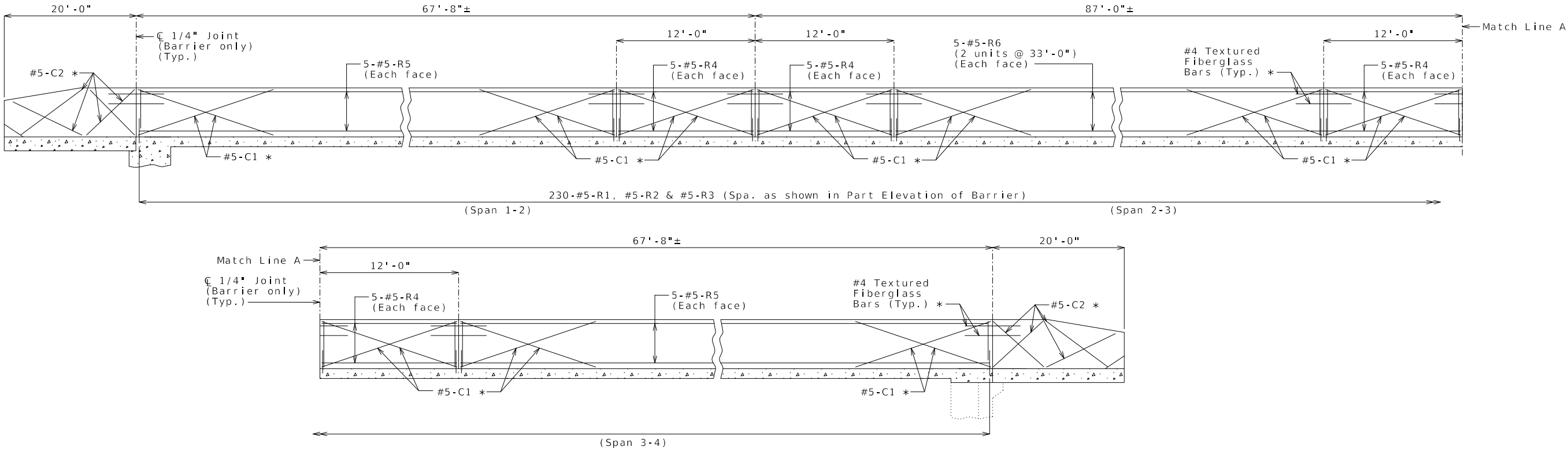
1001 HIGHLANDS PLAZA DR. WEST SUITE 400

ST. LOUIS, MISSOURI 63110

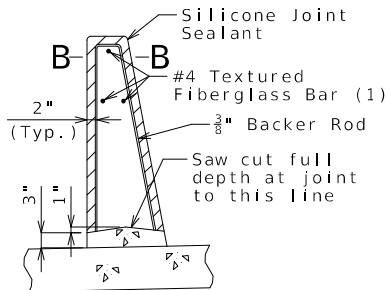
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

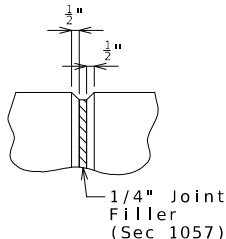
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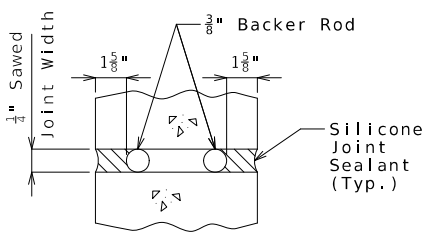
ELEVATION OF BARRIER
(Left barrier shown, right barrier similar)
Longitudinal dimensions are horizontal.



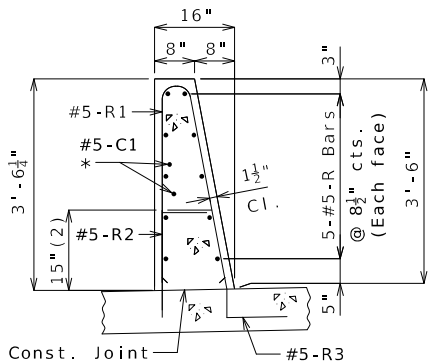
SECTION THRU
SAW CUT JOINT



PART ELEVATION
AT FORMED JOINT



SECTION B-B

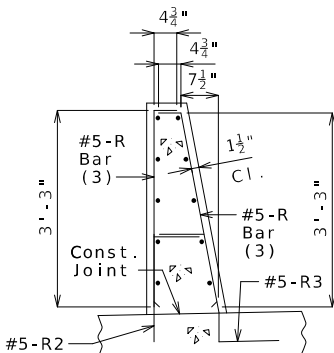


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.51 square feet.

(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.)

TYPE D BARRIER

General Notes:

* 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 1/2-inch radius or a 3/8-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 bridge approach slab to end of bridge approach slab.

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.

Detailed: Sept. 2024
Checked: Sept. 2024

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

Sheet No. 11 of 16

pw://jacobs-us-vapw.bentley.com:jacobs-us-vapw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_011_J6S3669_BarrierSlab.dgn



RODNEY D. RILEY
10/26/2024 10:38:56 PM
Rodney D. Riley, PE
MO-026267

DATE PREPARED
28-Oct-2024

ROUTE 67 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST LOUIS

JOB NO. J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10742

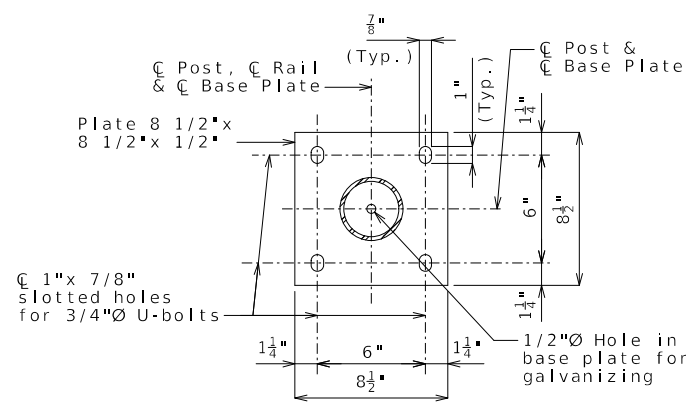
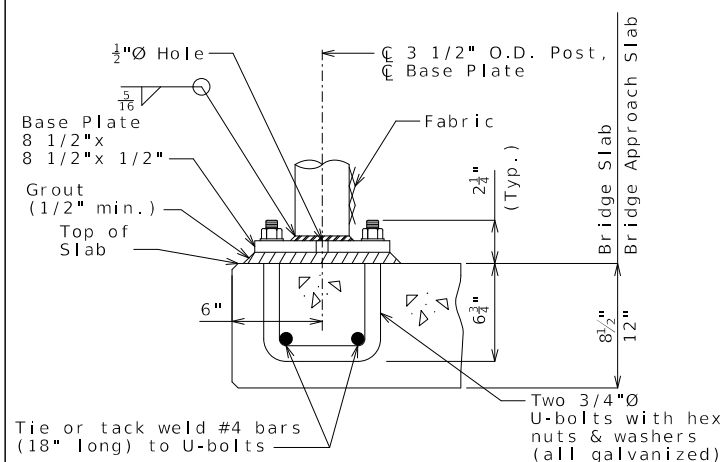
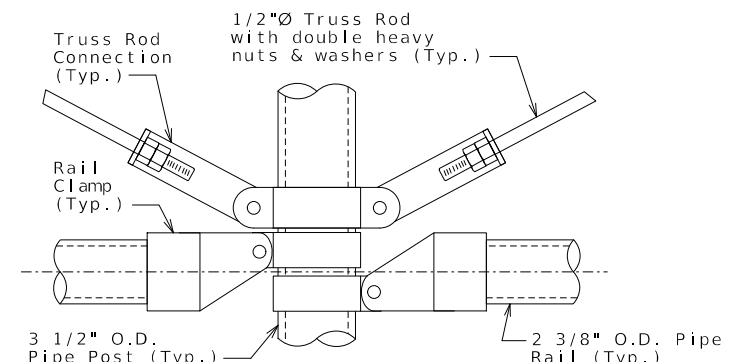
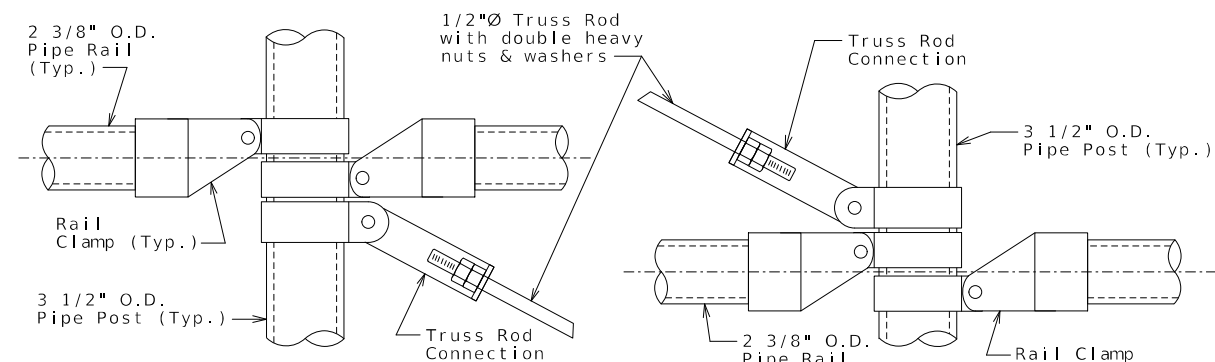
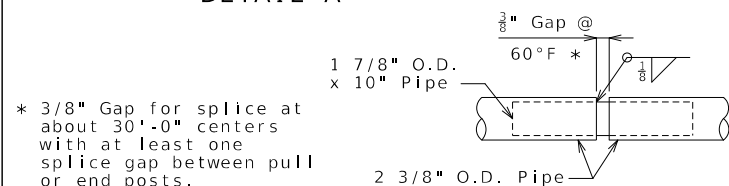
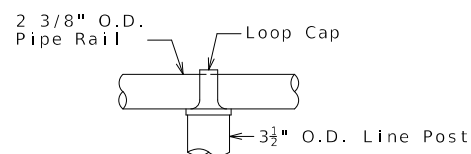
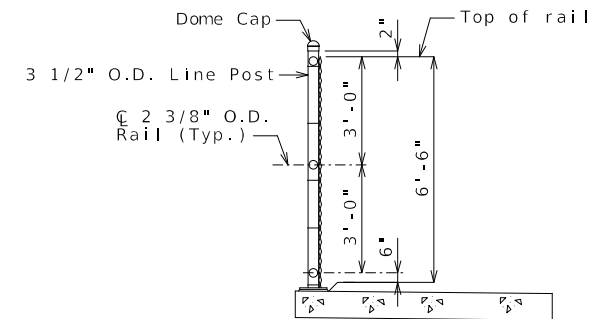
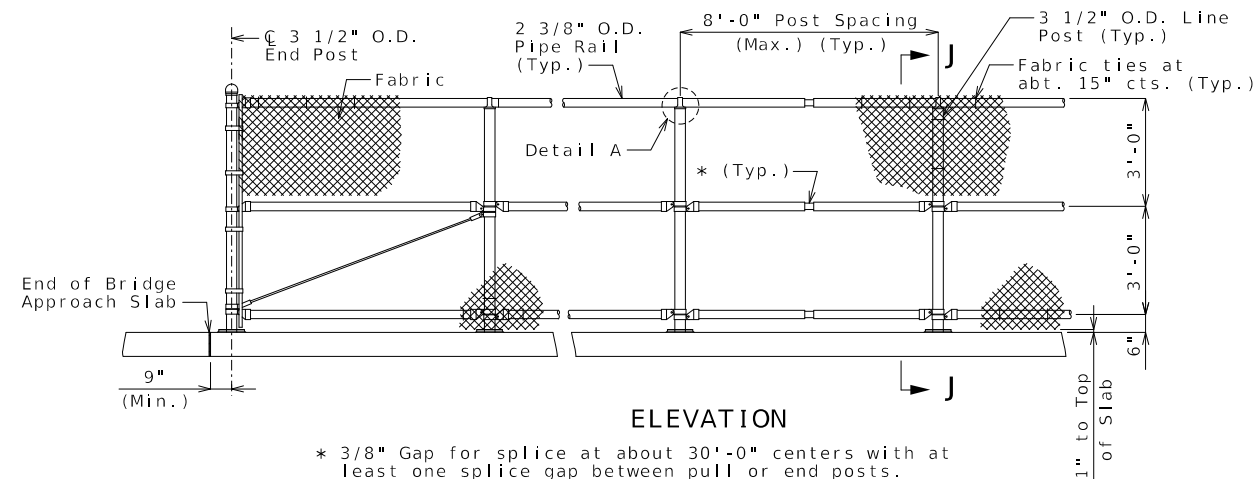
DESCRIPTION	DATE

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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REV.



PEDESTRIAN CHAIN LINK FENCE

GENERAL NOTES:

Pedestrian chain link fence shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled and pipe members shall be in accordance with ASTM F1043, high strength grade (minimum yield = 50 ksi) heavy industrial steel pipe Group 1A.

All posts shall be vertical. Grout shall be placed under the post base plates in accordance with Sec 1066.

Dimensions of pedestrian chain link fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 feet. Post brace and $\frac{1}{2}$ inch diameter truss rod are required for panels adjacent to pull post and end posts only. Connect the lower end of truss rod to bottom of pull posts and end posts to which the stretcher bar is attached.

Rail clamps, dome cap, bands, tie wires, stretcher bars and truss rod connections shall be in accordance with the manufacturer's recommendations. The truss rod and truss rod connections shall have a minimum capacity of 2000 pounds. Dome cap shall fit tightly.

Expansion joints shall be placed in the horizontal pieces at not more than 30-foot centers and at all joint filler locations in the curb with a minimum gap of 3/8 inch at 60 degrees F.

Steel for truss rods shall be ASTM A709 Grade 36. Steel for base plates shall be ASTM A709 Grade 50.

(72 in.) Pedestrian Fence-Black Vinyl Coated will be measured to the nearest linear foot for each structure, measured along the centerline fence from end of fence to end of fence.

Contractor shall submit complete detailed shop drawings in accordance with Sec 1080.

All U bolts, hex nuts and washers shall be galvanized in accordance with ASTM A123 and Sec 1081.

U bolts shall be ASTM F1554 Grade 36.

Chain link wire fabric shall be 9 gage minimum, 2-inch diamond mesh.

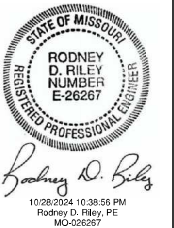
The chain link fence shall be built in accordance with Sec 607 & Sec 1043.

All material shall be in accordance with
Sec 607 & Sec 1043.

Posts, braces, rails, base plates and gate frame shall be in accordance with Sec 1043.3.5 and shall be vinyl coated in accordance with AASHTO M181.

Color of vinyl coating shall be black.

The cost of furnishing, fabricating and installing fence, complete in place, will be considered completely covered by the contract unit price for (72 in.) Pedestrian Fence - Black Vinyl Coated.



DATE PREPARED
28-Oct-2024

ROUTE
67

DISTRICT	SHEET NO.
BR	13

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10742[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR. WEST, SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#007074

Detailed: Sep. 2024
Checked: Sep. 2024

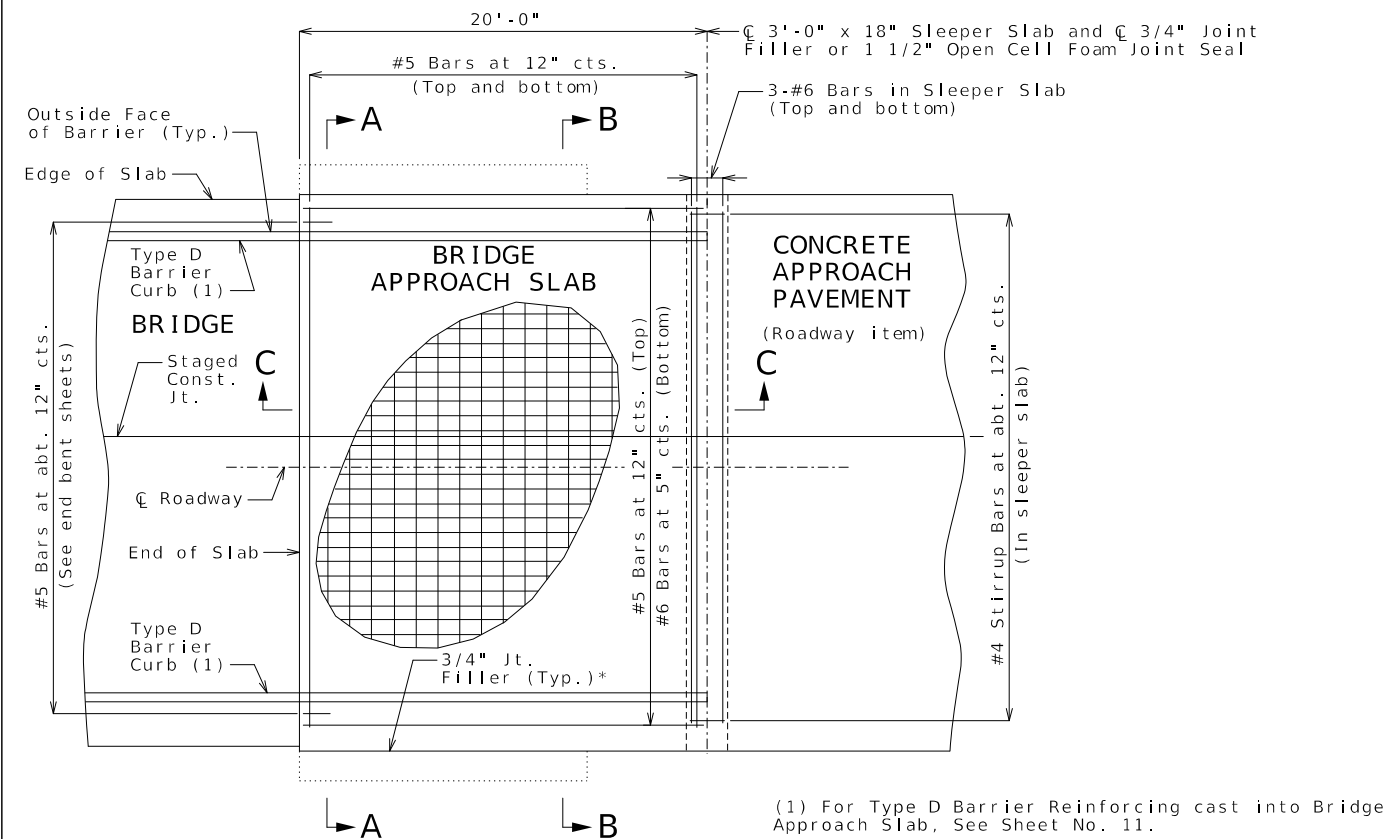
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Sheet No. 13 of 16

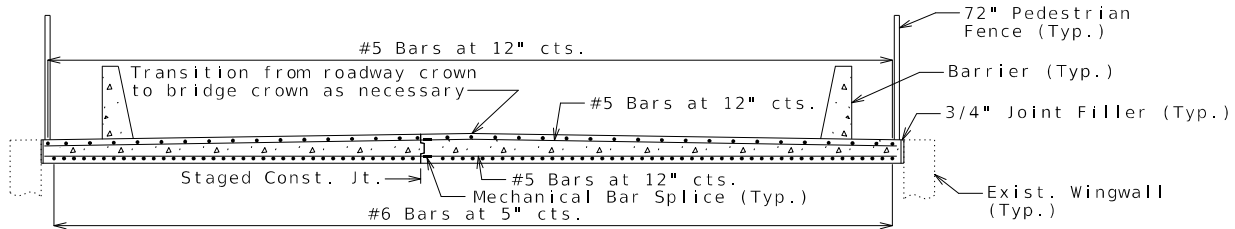
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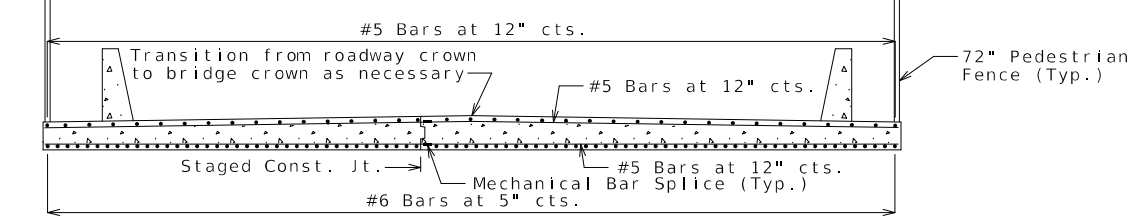
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PART PLAN SHOWING REINFORCEMENT

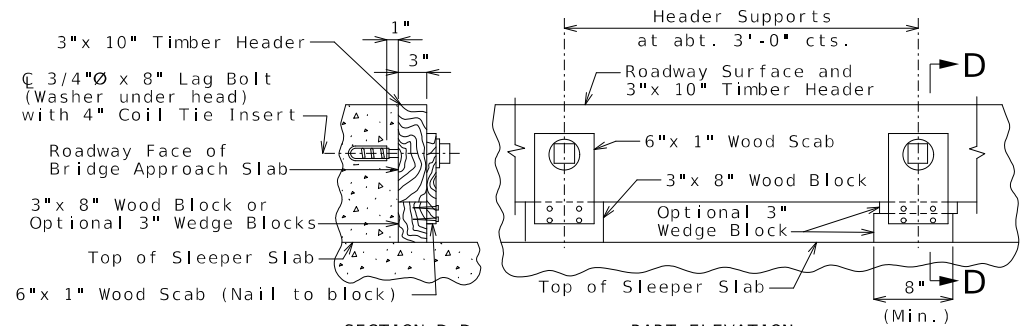


SECTION A-A



SECTION B-B

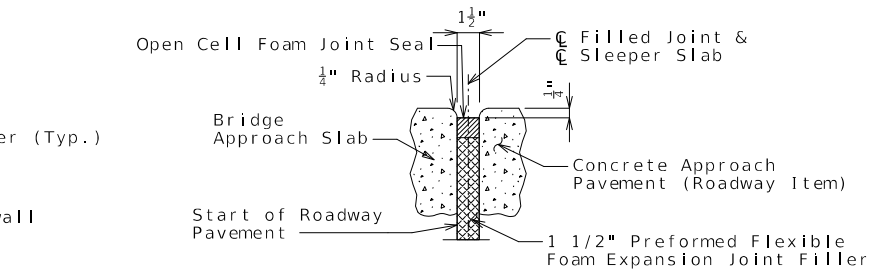
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



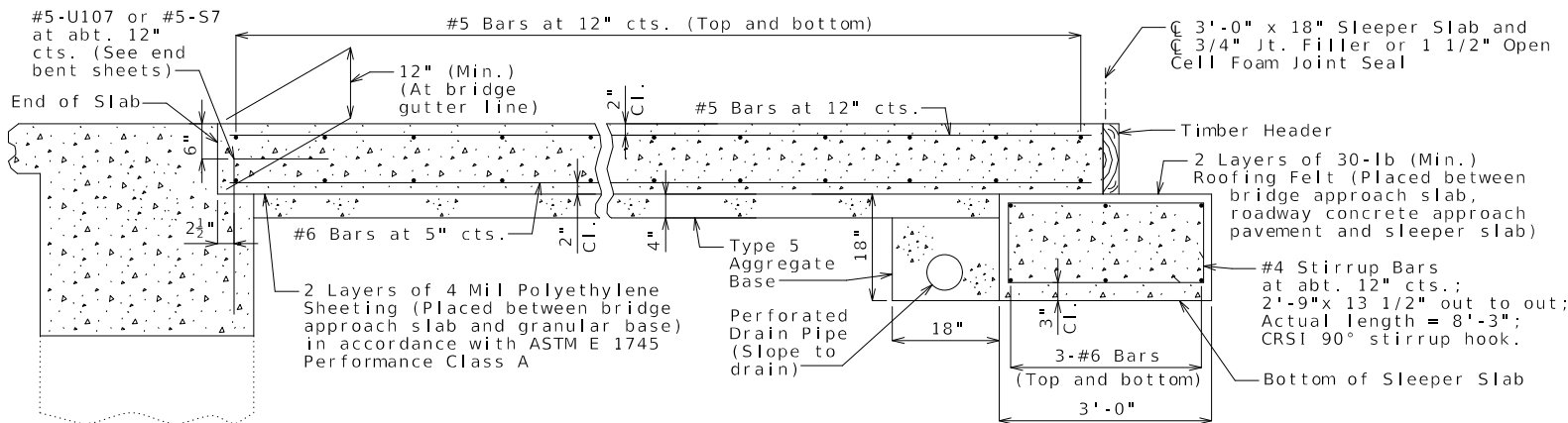
SECTION D-D

PART ELEVATION

DETAILS OF TIMBER HEADER



OPEN CELL FOAM JOINT SEAL
(End Bent No. 1 Only)



SECTION C-C

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 $f_y = 60,000$ 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 1 1/2", 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 providing a minimum lap splice of 29 inches for #5 bars and 44 inches for #6 bars, or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 44 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.

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.

The open cell foam joint seal shall be installed according to the manufacturer's recommendations.

The depth of the open cell foam joint seal shall not be less than the width of the seal.

Payment for the open cell foam joint seal, complete in place, will be considered completely covered by the contract unit price for Open Cell Foam Joint Seal per linear foot.



DATE PREPARED
28-Oct-2024

ROUTE
67

STATE
MO

DISTRICT
BR

SHEET NO.
14

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10742

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP

1001 HIGHLANDS PLAZA DR. WEST, SUITE 400

ST. LOUIS, MISSOURI 63110

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY

#00704

Detailed: Sep. 2024
Checked: Sep. 2024

Remove timber header when concrete pavement is placed.

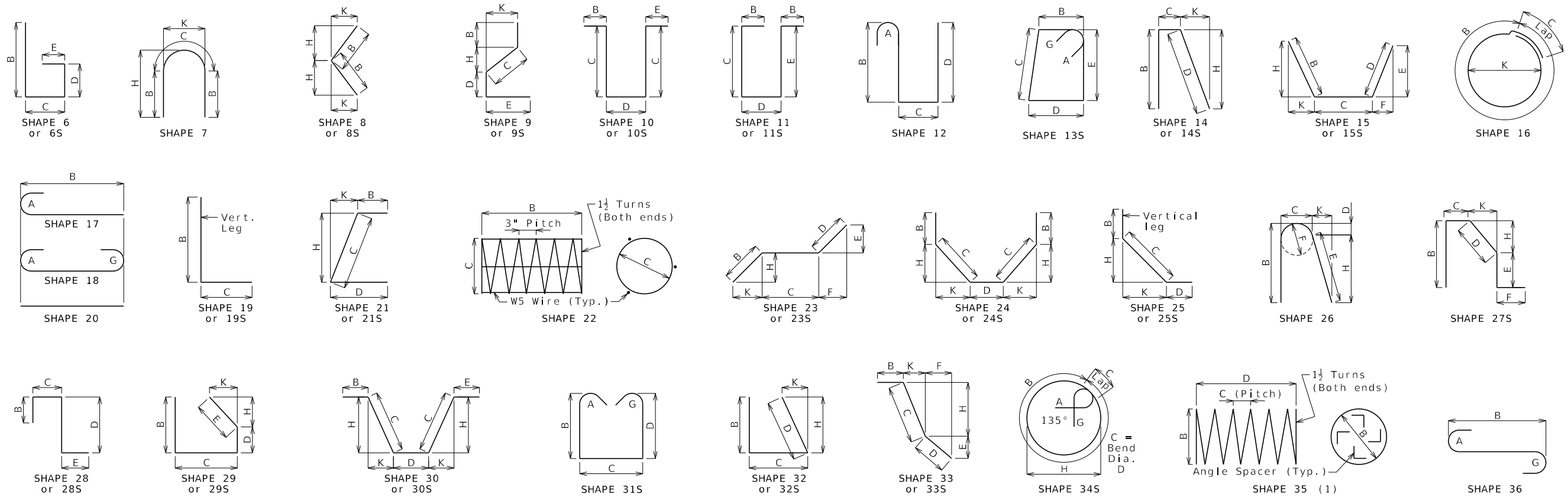
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 16

pw://jacobs-us-v-pw.bentley.com: jacobs-us-v-pw-04/Documents/F3X01700 - MoDOT- Route 67 PMC/30 Project Data/PID/Bridge/Sheets/A1074/B_A1074_014_J6S3669_App_Slab_Major.dgn

22:03 28-OCT-2024

REV.



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	3 $\frac{3}{8}$ "	10"	7"	5"
#6	1	4 $\frac{1}{2}$ "	12"	8 $\frac{1}{4}$ "	6"
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "
#8	2	6"	16"	11"	8"
	3	8"	17"	13 $\frac{1}{4}$ "	10"
#9	1	9 $\frac{1}{4}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{3}{8}$ "
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "

Detailing Dimension

90°

Detailing Dimension

Hook

A or G

180°

4d or 2 $\frac{1}{2}$ " Min.

Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G		H	J	
			90°	135°	180°	135°	180°
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "	3"
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"	4"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{5}{8}$ "	3 $\frac{3}{4}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	7"	3 $\frac{7}{8}$ "	5"
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "	6"

6d for #4 & #5,
12d for #6

Detailing Dimension

90°

Detailing Dimension

Hook

A or G

135°

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.

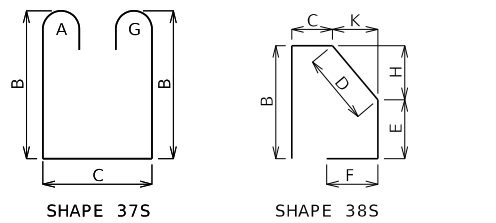
Detailing Dimension

Hook

A or G

180°

4d or 2 $\frac{1}{2}$ " Min.



BENDING DIAGRAMS

All dimensions are out to out.

Shapes ending with an S shall be bent in accordance with stirrup pin bend shapes.

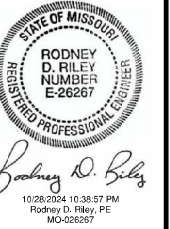
Unless otherwise noted,
finished bending diameter
D is the same for all
bends of a shape.

(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	
		Plain	Epoxy	Slab		Barrier	Slip Form	Plain	Epoxy
				Plain	Epoxy				
By Size	W5	0	0	0	0	0	0	0	0
	4	0	0	0	3,196	1,090	0	0	4,286
	5	0	0	0	74,101	13,579	635	0	88,315
	6	0	0	0	70,561	0	0	0	70,561
	7	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	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	0	0	0	147,858	14,669	635	0	163,162	

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.



DATE PREPARED
28-Oct-2024

ROUTE	STATE
67	MO

DISTRICT	SHEET NO.
BR	15

COUNTY
ST LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A10742

A10742						

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

The logo for the Missouri Department of Transportation (MoDOT) features the word "MoDOT" in a stylized font, with the "M" and "D" being larger and more prominent. Below the text is a graphic of a bridge or highway structure.

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

Jacobs
JACOBS ENGINEERING GROUP
1001 HIGHLANDS PLAZA DR WEST SUITE 400
ST. LOUIS, MISSOURI 63110
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

SEC/SUR939TWP47NRGE6E

U.I.P. AND REHABILITATE EXISTING (42'-48'-48'-42') PRESTRESSED CONCRETE DOUBLE-TEE GIRDER SPANS (SKEW:15° R.A.)

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:
HS20-44 Modified (1986) and Modified 24,000 lb Tandem Axle (1986)

Design Unit Stresses:
Class B-2 Concrete (Half-Sole and Full Depth Repair) f'c = 4,000 psi

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.

Concrete Protective Coatings:
Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:
Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

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

Contractor shall verify all dimensions in field before ordering materials.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

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

Optional Polymer Concrete Wearing Surface

Type of Wearing Surface	Type Used (✓)
Polyester Polymer Concrete Wearing Surface (See Std. Spec.)	
Hybrid Polymer Concrete Wearing Surface (See Special Provisions)	
Epoxy Polymer Concrete Wearing Surface (See Special Provisions)	

MoDOT construction personnel will complete column labeled "Type Used (✓)".

If choosing the optional polymer concrete wearing surface alternative, The contractor shall select one of the optional polymer concrete wearing surfaces listed in the table. The optional polymer concrete wearing surface method of measurement and basis of payment shall be in accordance with Special Provisions or Standard Specifications.

Estimated Quantities

Item	Total
Scarification of Bridge Deck	sq. yard 1465
Bridge Approach Slab (Major)	sq. yard 336
** Diamond Grinding	sq. yard 1465
Type A Barrier	linear foot 40
Epoxy Pressure Injecting	linear foot 36
Cleaning and Epoxy Coating	sq. foot 380
Barrier Repair (Formed)	linear foot 16
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum 1

Latex Modified Concrete Wearing Surface Alternate

Item	Total
Total Surface Hydro Demolition	sq. yard 1465
* Supplementary Wearing Surface Material	cu. yard 6
Latex Modified Concrete Wearing Surface	sq. yard 1465
Full Depth Repair	sq. foot 50

Optional Polymer Concrete Wearing Surface Alternate

Item	Total
Optional Polymer Concrete Wearing Surface	sq. yard 1465
Half-Sole Repair	sq. foot 700
Full Depth Repair	sq. foot 50

* Supplementary wearing surface material for monolithic deck repair will be paid for at the fixed unit price in accordance with Sec 109.

** See Special Provisions

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

REPAIRS TO BRIDGE: ROUTE 67 S OVER LYNN HAVEN AND TAYLOR ROAD

ROUTE 67 FROM ROUTE 1-270 TO ROUTE AC ABOUT 0.3 MILE NORTH OF ROUTE 1-270 BEGINNING STATION 235+29.46± (Match Existing)

STATE OF MISSOURI

MARTIN ALAM

CHORNEY

REGISTERED PROFESSIONAL ENGINEER

RE-2013006488

10-17-24

PROFESSIONAL EXPIRATION DATE

DATE

DATE PREPARED
10/9/2024

ROUTE
67

STATE
MO

DISTRICT
BR

SHEET NO.
1

COUNTY
ST. LOUIS

JOB NO.
J6S3669

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A45141

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

HORNER SHIFRIN

401 S. 10TH ST., STE. 400 SAINT LOUIS, MO 63102 314-251-1000

CERTIFICATE OF AUTHORITY: 000189 EXPIRATION DATE: DECEMBER 31, 2024

US 67 S OVER LYNN HAVEN AND TAYLOR

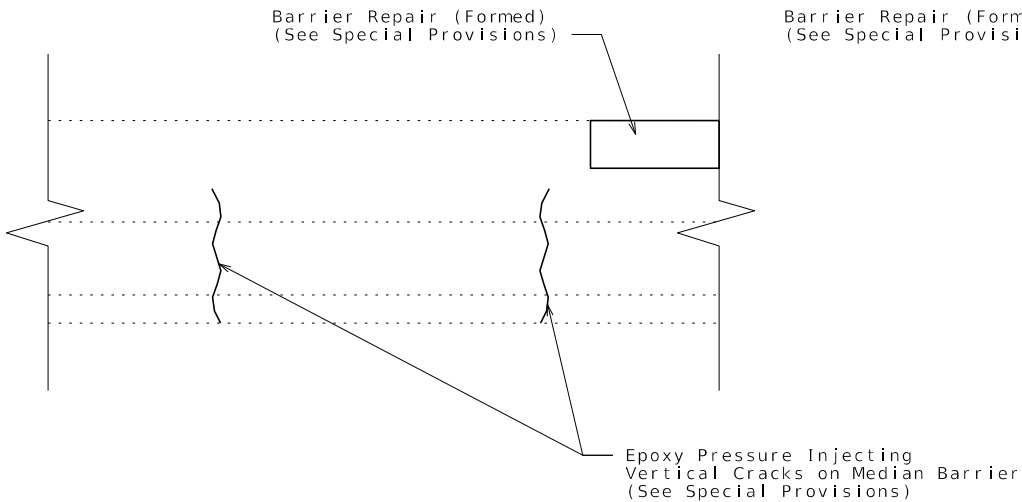
GENERAL NOTES AND QUANTITIES

Detailed: Jun. 2024
Checked: Jun. 2024

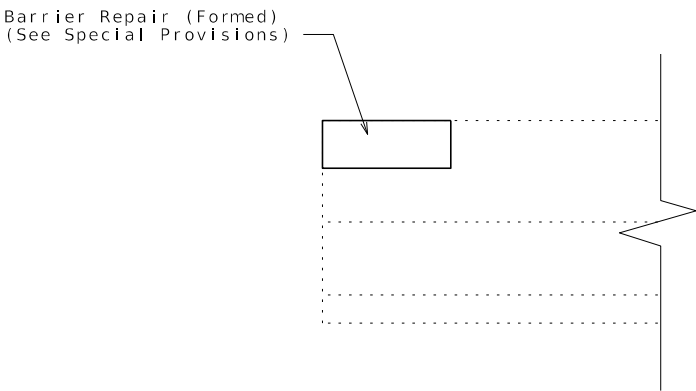
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 6

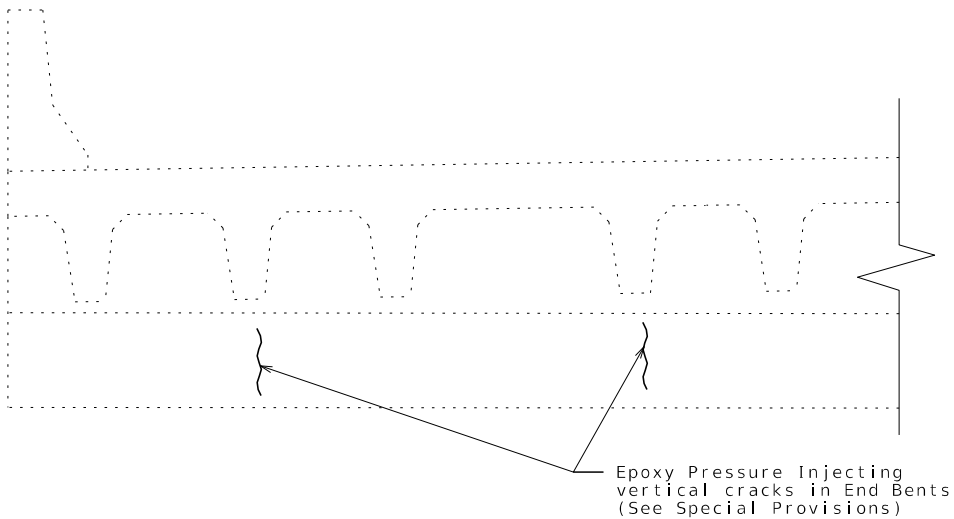
...\\B_A45141_01_J6S3669_Notes and Quantities.dgn 2:45:26 PM 10/9/2024



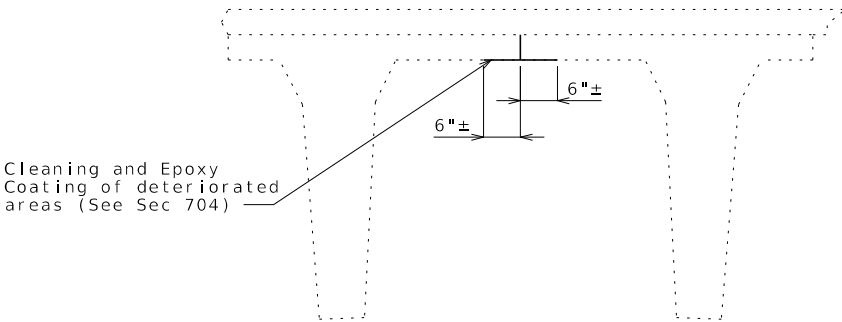
PART ELEVATION OF EXISTING
TYPE A MEDIAN BARRIER CURB



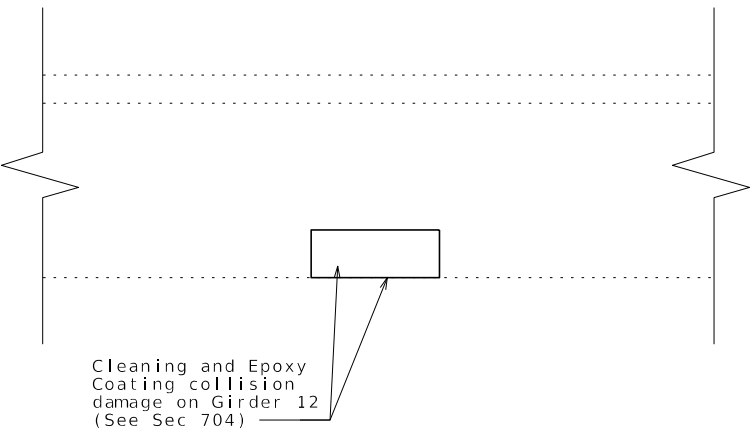
PART ELEVATION OF EXISTING
TYPE B BARRIER CURB



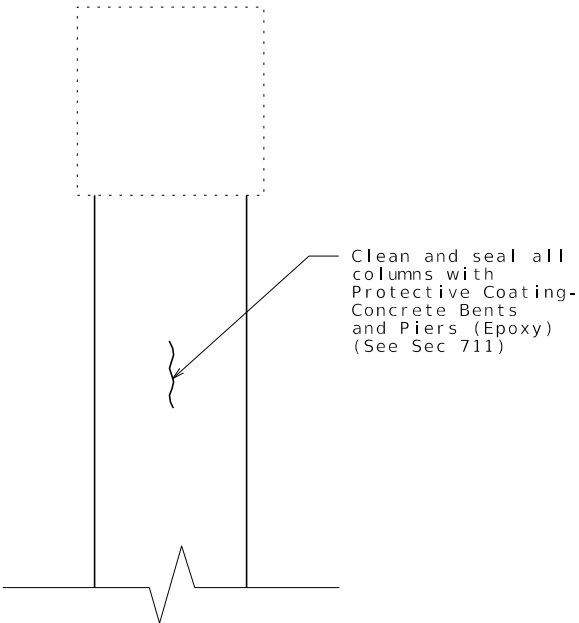
PART ELEVATION OF END BENTS



TYPICAL SECTION THRU EXISTING DOUBLE-TEE
BEAMS SHOWING PROTECTIVE COATING



PART ELEVATION OF EXTERIOR GIRDER
ON SOUTH SIDE OF SPAN (3-4)



TYPICAL SECTION THRU INTERMEDIATE
BENTS SHOWING PROTECTIVE COATING

REHAB DETAILS

Detailed: Jun. 2024
Checked: Jun. 2024

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

Sheet No. 3 of 6



DATE	
DATE PREPARED	
10/9/2024	
ROUTE	STATE
67	MO
DISTRICT	SHEET NO.
BR	3
COUNTY	
ST. LOUIS	
JOB NO.	
J6S3669	
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO.	
A45141	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

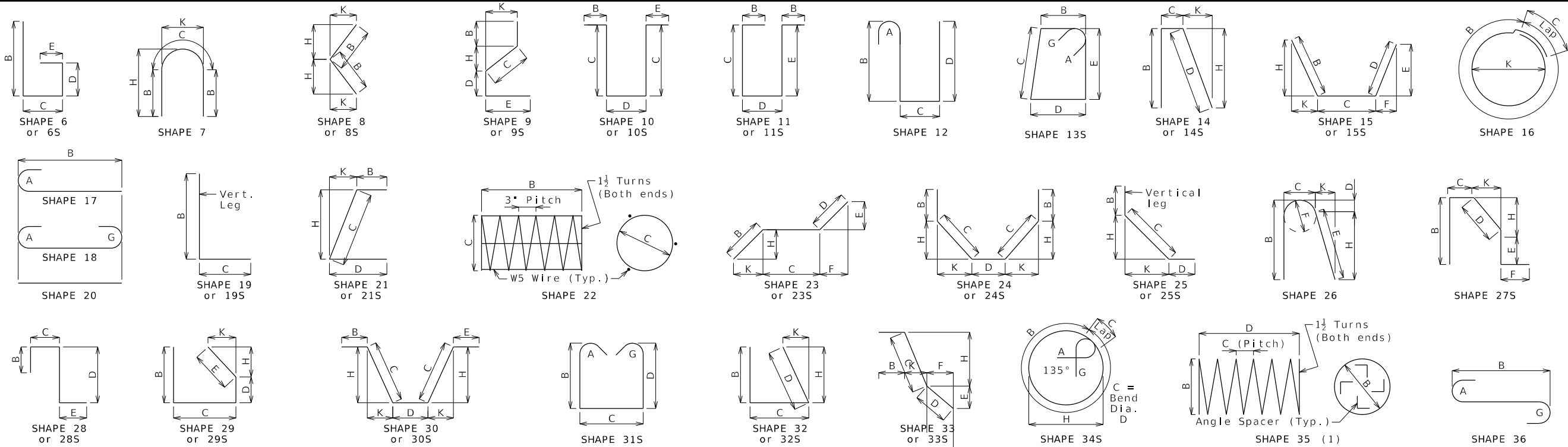
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HORNER SHIFRIN

407 S. 10TH ST., STE. 100 SAINT LOUIS, MO 63102
314-421-1100
CERTIFICATE OF AUTHORITY: 000189
EXPIRATION DATE: DECEMBER 31, 2024

US 67 S OVER
LYNN HAVEN AND
TAYLOR

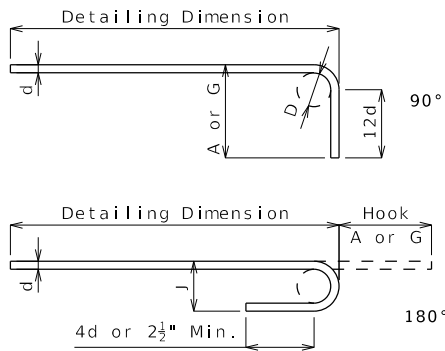
REHAB DETAILS



Finished Bend Diameters D and Hook Dimensions

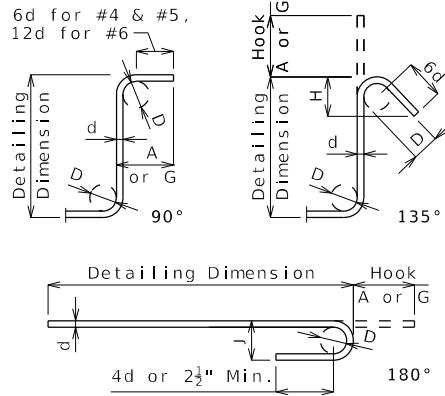
Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	
#4	1	3"	8"	6"	4"
#5	1	3½"	10"	7"	5"
#6	1	4½"	12"	8½"	6"
#7	2	5½"	14"	9½"	7"
	3	7"	15"	11½"	8½"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14¾"
#14	1	18¼"	31¼"	27½"	21½"
#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"	5½"	6"	3"	4"
#5	2	2½"	5½"	5½"	5¾"	3⅞"	3¾"
	3	3¾"	6½"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅞"	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.

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.

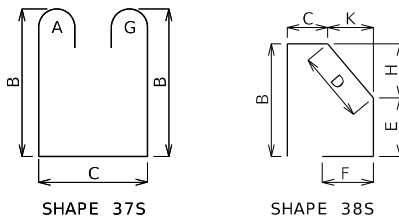
All bars shall be Grade 60.

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.

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	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
5	0	0	0	522	83	0	605
By Type	0	0	0	522	83	0	605

All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

Bill of Reinforcing Steel

Bill of Reinforcing Steel															
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length ft in.	Actual Length ft in.	Weigh
						B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.			
		TYPE A BARRIER	E	14	S		0 3.500	2 5.125			2 5.000	0 3.000	2 9	2 8	23
84	5R1	BARRIER	E	14	S		0 3.500	2 5.125			2 5.000	0 3.000	2 9	2 8	23
14	5R2	BARRIER	E	20	S	19 9.000							19 9	19 9	28
		SLIP FORM OPTION													
8	5C1	BARRIER	E	20		10 0.000							10 0	10 0	8

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

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

Sheet No. 6 of 6

Detailed: Jun. 2024
Checked: Jun. 2024