

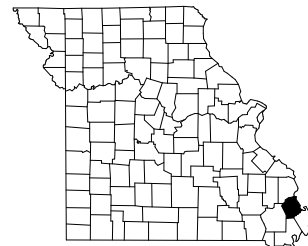
DESIGN DESIGNATION

A.A.D.T. - 2025 = 4378
 A.A.D.T. - 2035 = 5745
 D.H.V. = 18%
 T = 11%
 V = 20,30,40,55 M.P.H.
 D = 50%

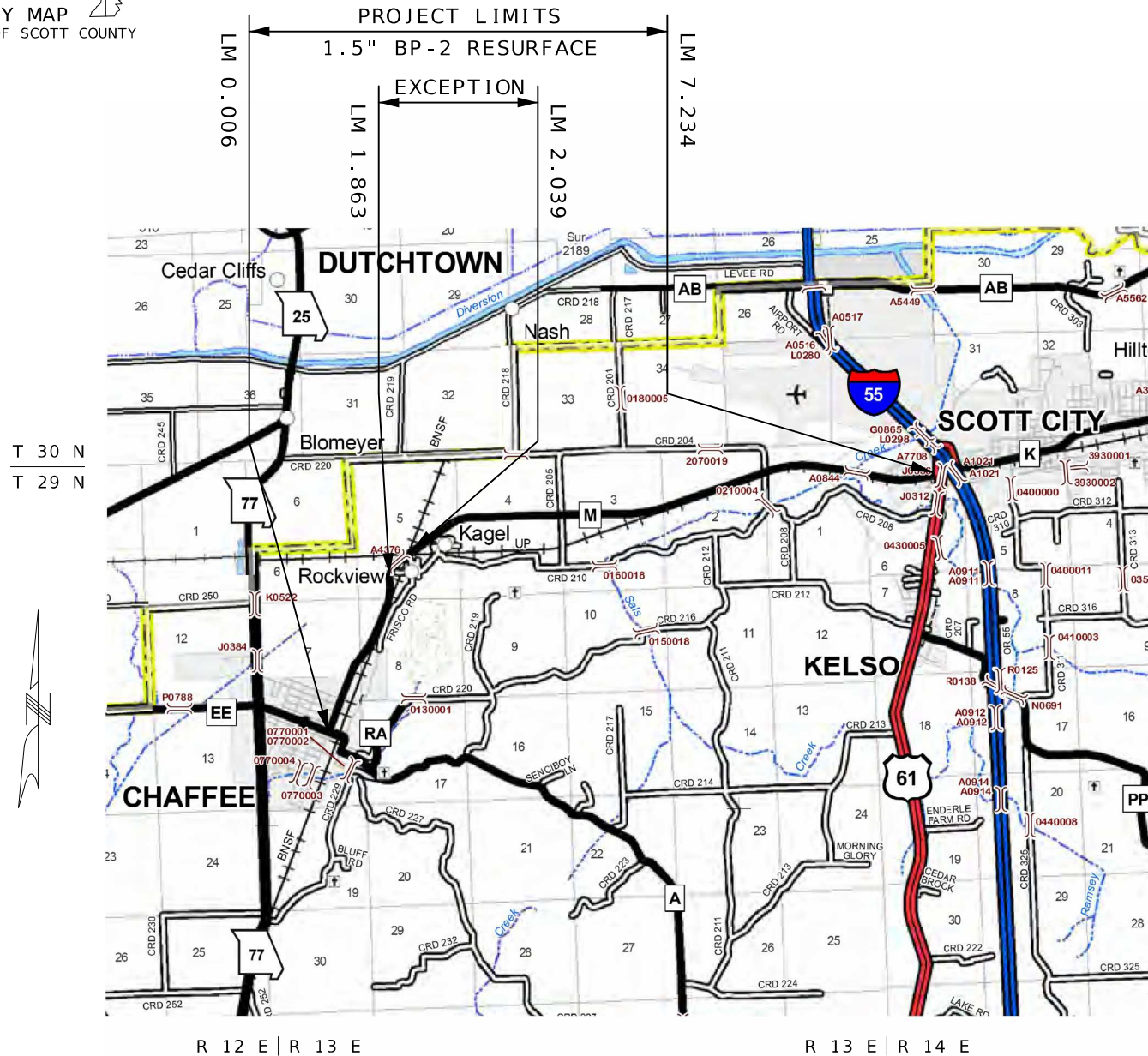
FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

NO NEW R/W

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 PLANS FOR PROPOSED
 STATE HIGHWAY
 SCOTT COUNTY**



KEY MAP
 LOCATION OF SCOTT COUNTY



T 30 N
 T 29 N

R 12 E | R 13 E

R 13 E | R 14 E

**CONVENTIONAL SYMBOLS
 (USED IN PLANS)**

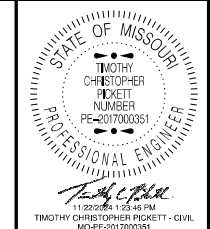
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (4 SHEETS)---	2
QUANTITIES (QU) (2 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4-5
TRAFFIC CONTROL SHEETS (TC)-----	6-7
BRIDGE DRAWINGS (B)	
A08442-----	1-8



DATE PREPARED
11/20/2024
 ROUTE STATE
M MO
 DISTRICT SHEET NO.
SE 1
 COUNTY
SCOTT
 JOB NO.
J9S3813
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION	DATE

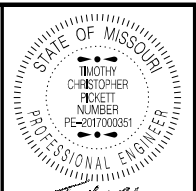
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

LENGTH OF PROJECT

BEGINNING OF PROJECT	LM 0.006
END OF PROJECT	LM 7.234
APPARENT LENGTH	38163.84 FEET
EQUATIONS AND EXCEPTIONS:	
LM 1.863 TO LM 2.039 (BR A8225)	-925.00 FEET
TOTAL CORRECTIONS	-925.00 FEET
NET LENGTH OF PROJECT	37238.84 FEET
STATE LENGTH	7.053 MILES
FOR INFORMATION ONLY	
ESTIMATED DISTURBED ACRES	0.0 ACRES

REV.



DATE PREPARED
10/23/2024

ROUTE M STATE MO

DISTRICT SE SHEET NO. 2

COUNTY SCOTT

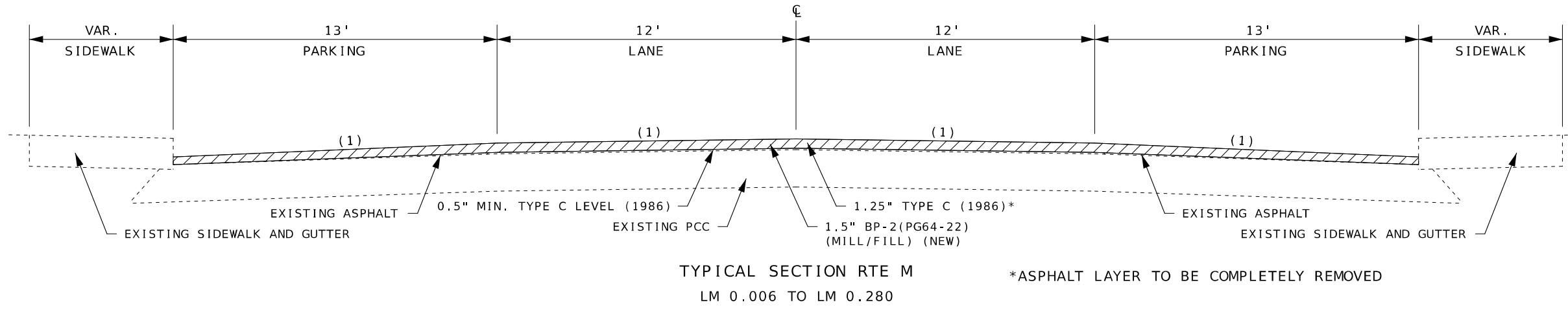
JOB NO. J9S3813

CONTRACT ID.

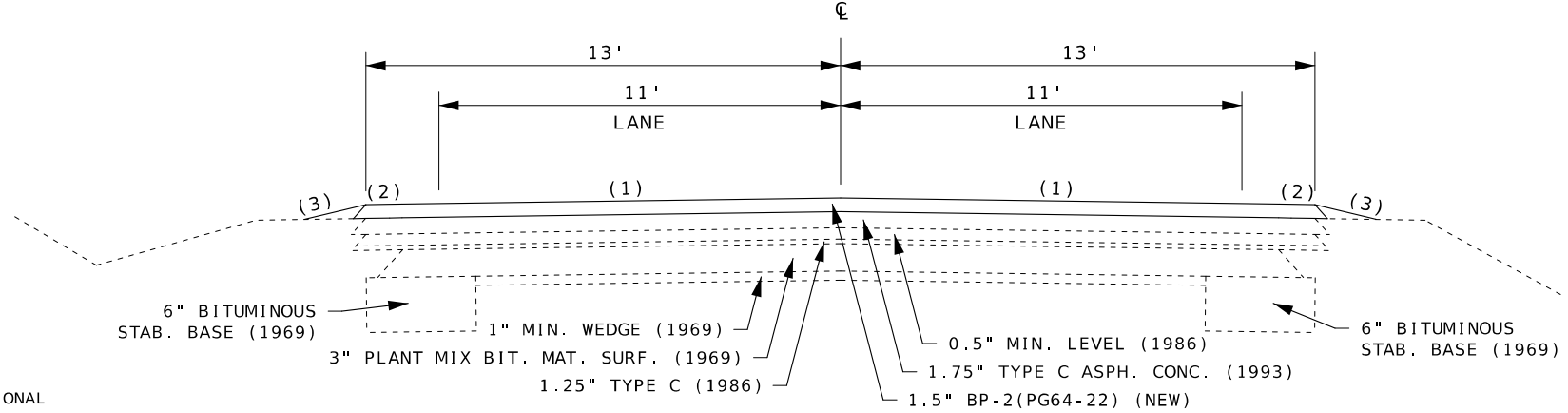
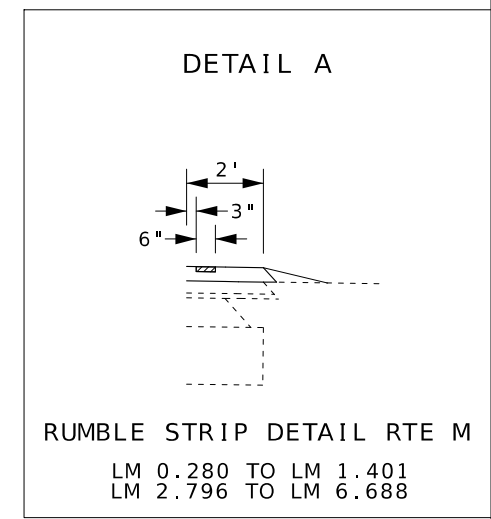
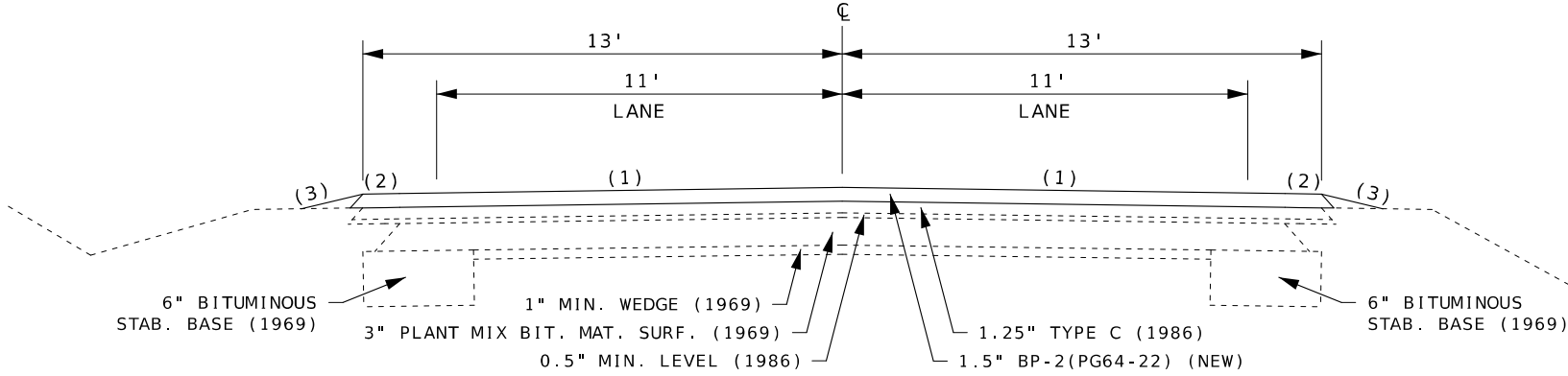
PROJECT NO.

BRIDGE NO.

- (1) MATCH EXIST CROSS SLOPE
- (2) SAFETY EDGE
- (3) PERMANENT AGG EDGE TREATMENT



*ASPHALT LAYER TO BE COMPLETELY REMOVED



NOTES:

ANY EXISTING PAVEMENT SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. LAYERS MAY VARY FROM TYPICALS.

REMOVAL OF VEGETATIVE GROWTH OR SOIL FROM EXISTING PAVEMENT & SHOULDER SURFACE SHALL BE COMPLETELY COVERED BY SEC 407.4.1.

SEE TYPICAL SECTION DETAIL A (SHEET 1 OF 4) AND DETAIL B (SHEET 2 OF 4) FOR RUMBLE STRIP PLACEMENT.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

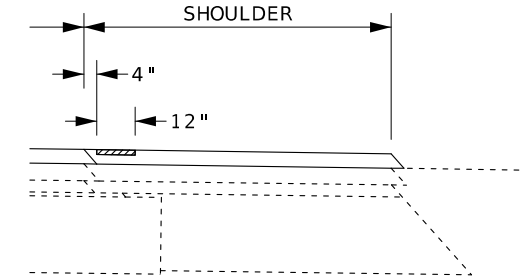
DESCRIPTION	DATE



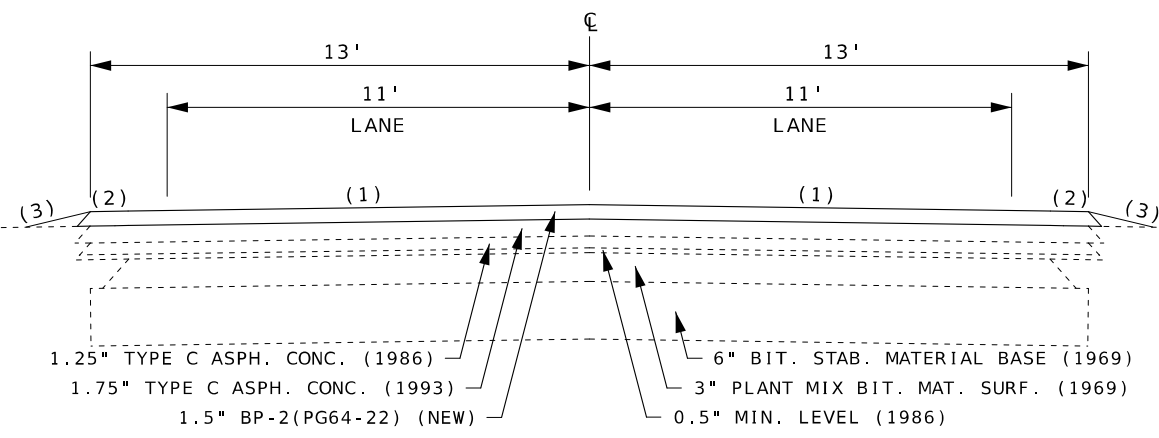
TYPICAL SECTIONS
SHEET 1 OF 4

- (1) MATCH EXIST CROSS SLOPE
- (2) SAFETY EDGE
- (3) PERMANENT AGG EDGE TREATMENT

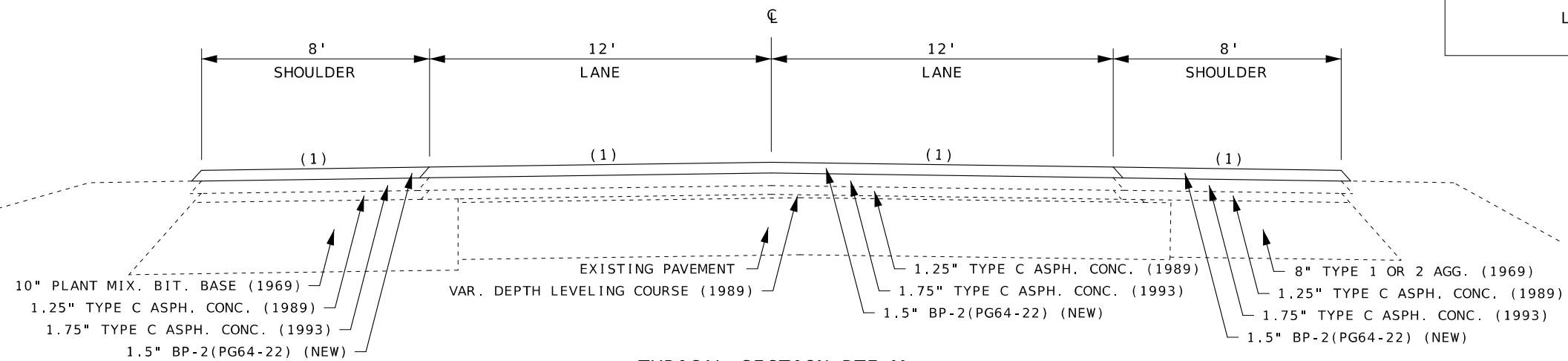
DETAIL B



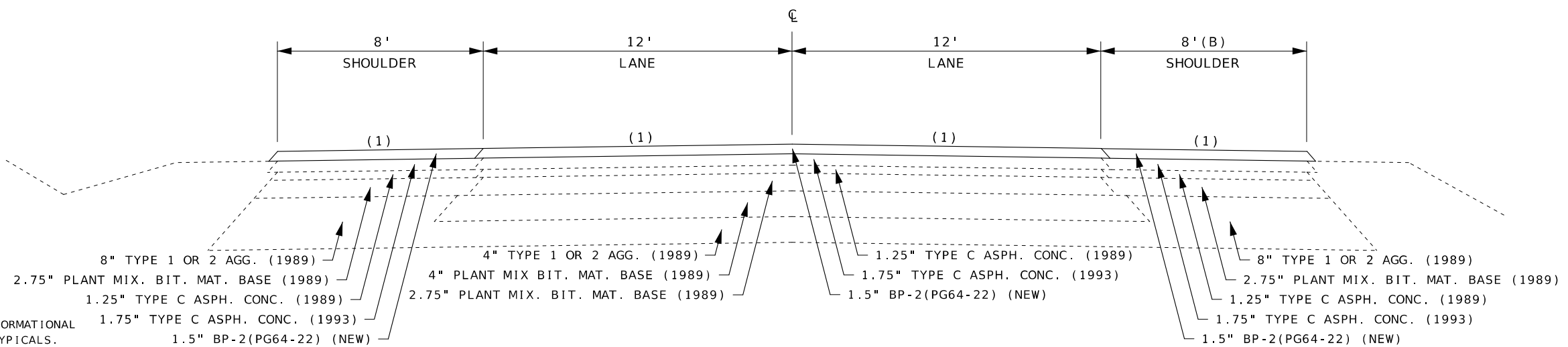
RUMBLE STRIP DETAIL RTE M
LM 1.401 TO LM 2.796



TYPICAL SECTION RTE M
LM 1.230 TO LM 1.287



TYPICAL SECTION RTE M
LM 1.401 TO LM 1.482



TYPICAL SECTION RTE M
LM 1.482 TO LM 1.569
LM 2.545 TO LM 2.588

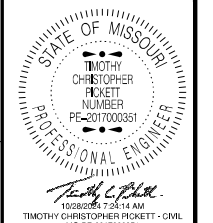
NOTES:

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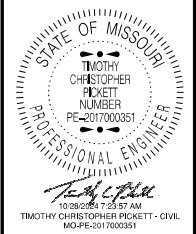
DATE PREPARED
10/23/2024
ROUTE STATE
M MO
DISTRICT SHEET NO.
SE 2
COUNTY
SCOTT
JOB NO.
J9S3813
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

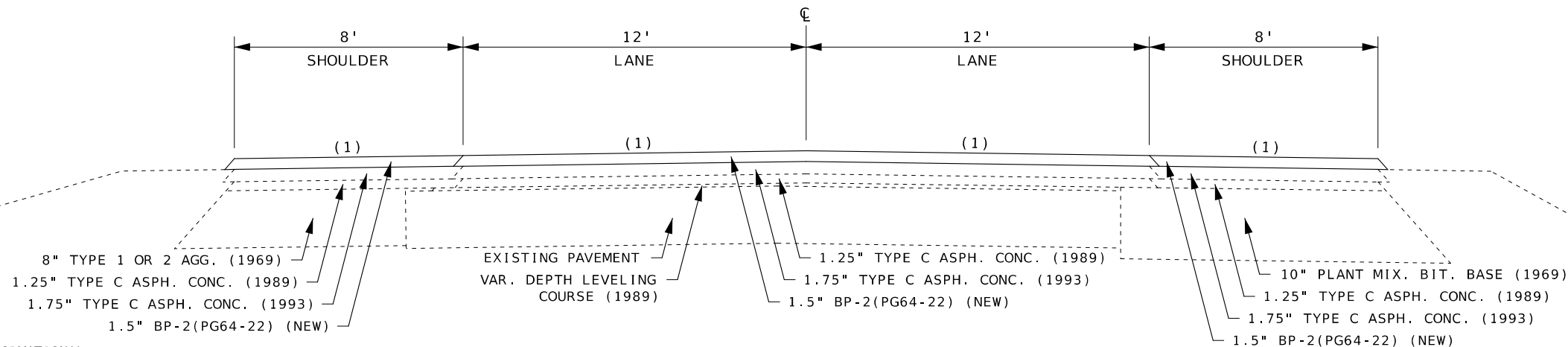
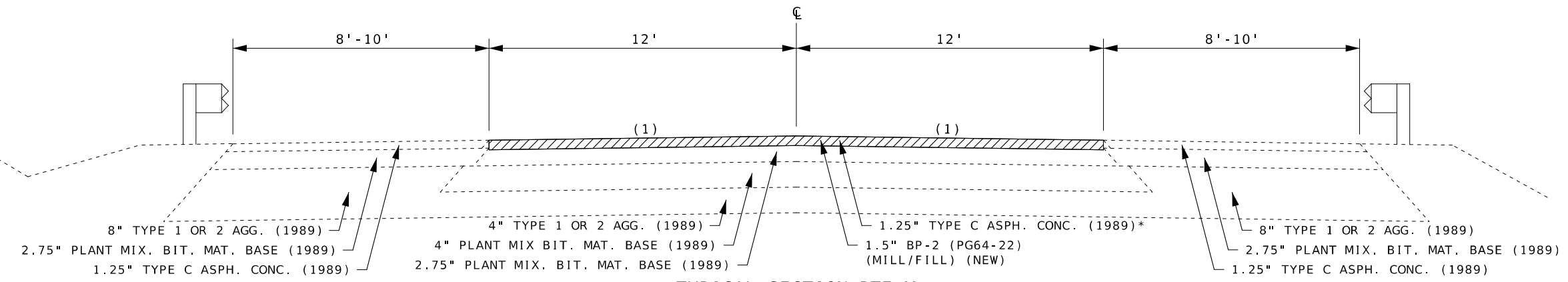
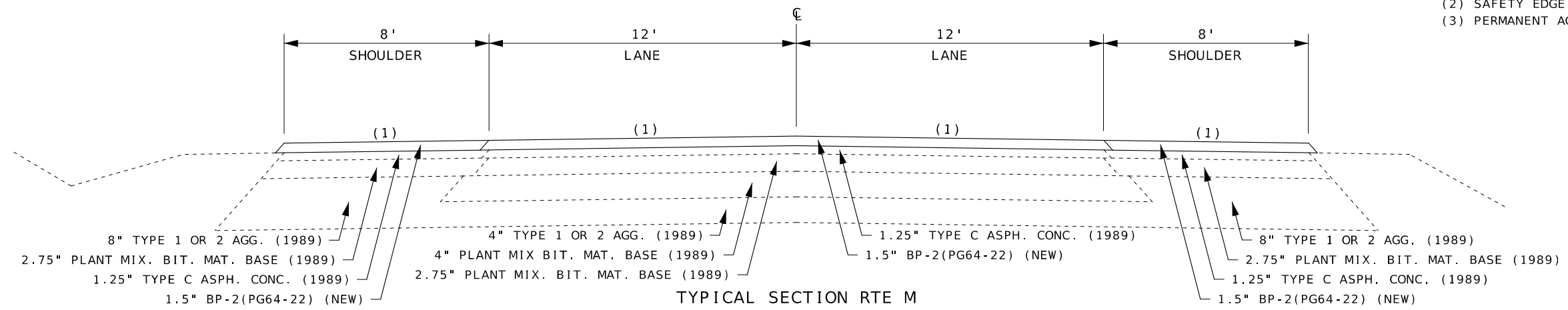
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

- (1) MATCH EXIST CROSS SLOPE
- (2) SAFETY EDGE
- (3) PERMANENT AGG EDGE TREATMENT



DATE PREPARED 10/23/2024	
ROUTE M	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY SCOTT	
JOB NO. J9S3813	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



NOTES:

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SEE TYPICAL SECTION DETAIL A (SHEET 1 OF 4) AND DETAIL B (SHEET 2 OF 4) FOR RUMBLE STRIP PLACEMENT.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

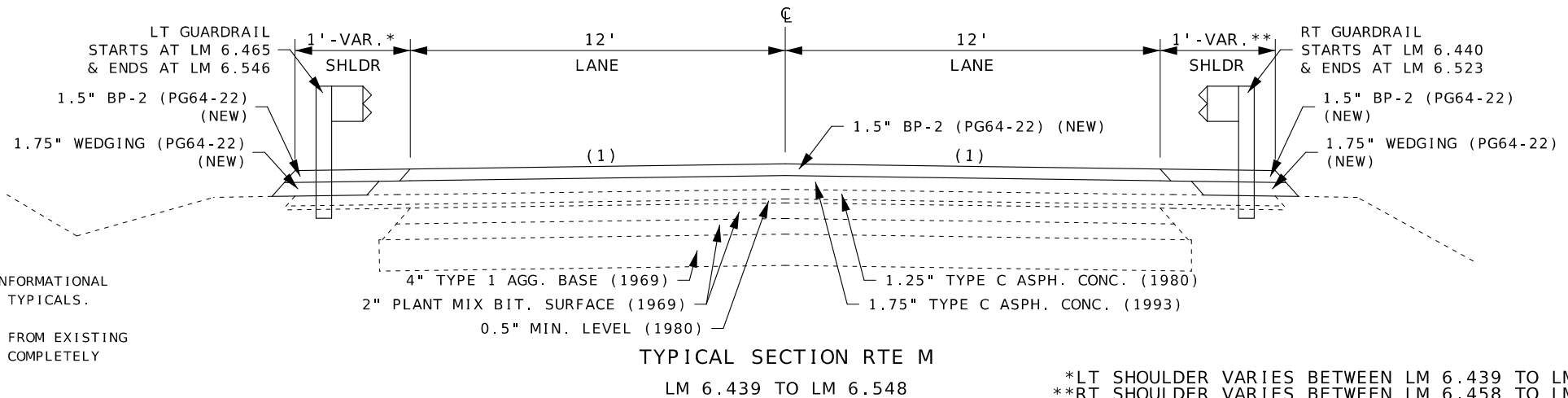
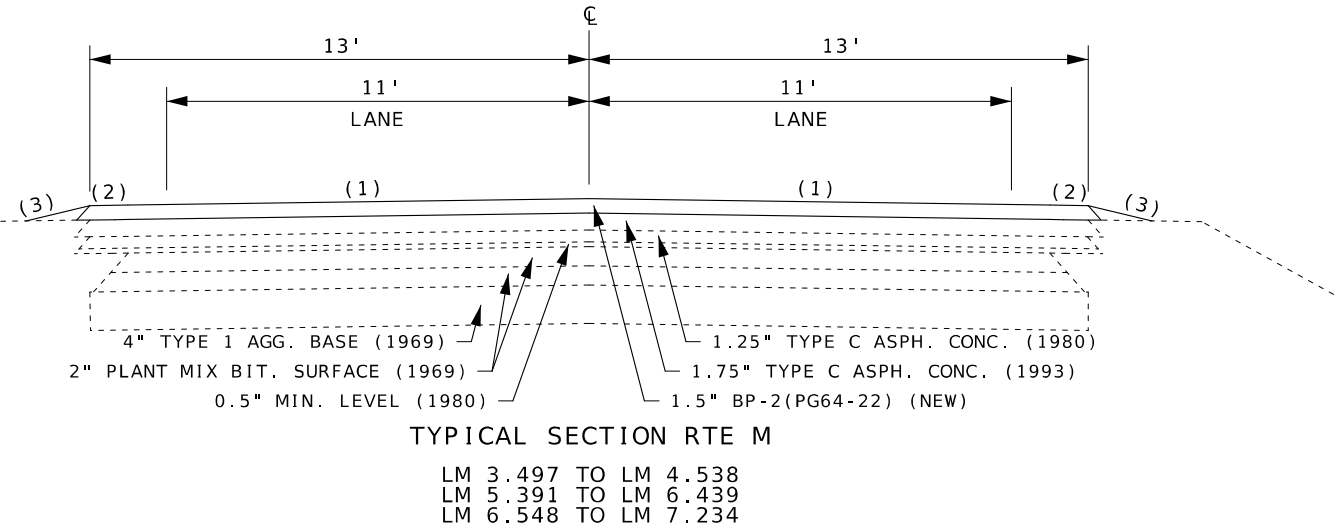
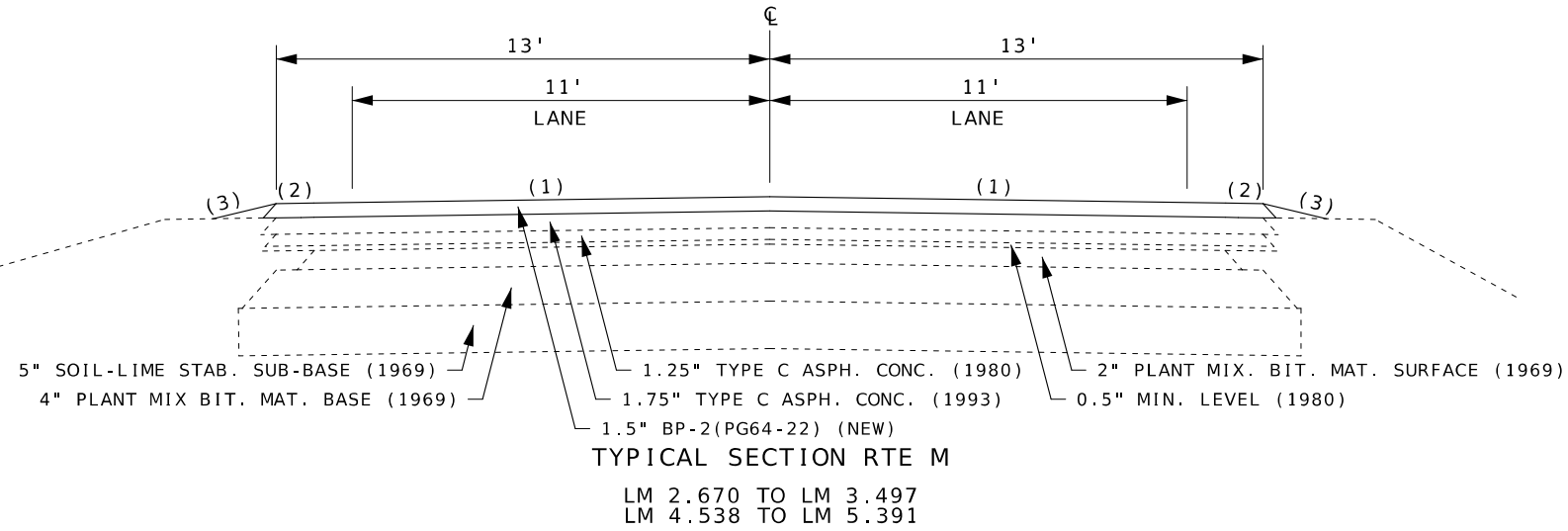
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TYPICAL SECTIONS SHEET 3 OF 4

- (1) MATCH EXIST CROSS SLOPE
- (2) SAFETY EDGE
- (3) PERMANENT AGG EDGE TREATMENT



NOTES:

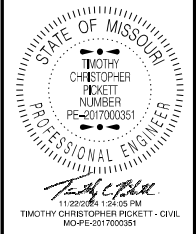
ANY EXISTING PAVEMENT SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. LAYERS MAY VARY FROM TYPICALS.

REMOVAL OF VEGETATIVE GROWTH OR SOIL FROM EXISTING PAVEMENT & SHOULDER SURFACE SHALL BE COMPLETELY COVERED BY SEC 407.4.1.

SEE TYPICAL SECTION DETAIL A (SHEET 1 OF 4) AND DETAIL B (SHEET 2 OF 4) FOR RUMBLE STRIP PLACEMENT.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

*LT SHOULDER VARIES BETWEEN LM 6.439 TO LM 6.524
**RT SHOULDER VARIES BETWEEN LM 6.458 TO LM 6.548



DATE PREPARED 11/20/2024	
ROUTE M	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY SCOTT	
JOB NO. J9S3813	
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)

**TYPICAL SECTIONS
SHEET 4 OF 4**

BITUMINOUS PAVEMENT										
LM	LM	LOC	LENGTH FT	WIDTH FT	DEPTH IN	BP-2 PG 64-22 2.040 TON/CY		TACK 0.08 GAL/SY GAL	REMARKS	
						CY	TON			
0.006	0.280	C	1446.72	24.00	1.5	160.75	327.93	308.6	24' PAVEMENT	
0.006	0.280	LT	1446.72	12.60	1.5	84.39	172.16	162.0	12.6' LT PARKING	
0.006	0.280	RT	1446.72	12.60	1.5	84.39	172.16	162.0	12.6' RT PARKING	
0.280	1.401	C	5918.88	26.00	1.5	712.46	1453.42	1367.9	26' PAVEMENT	
1.401	1.698	C	1568.16	40.00	1.5	291.31	594.27	561.1	24' PAVEMENT, 8' SHOULDERS	
1.698	1.863	C	871.20	24.00	1.5	96.80	197.47	185.9	24' PAVEMENT	
2.039	2.304	C	1399.20	24.00	1.5	155.47	317.16	298.5	24' PAVEMENT	
2.304	2.670	C	1932.48	40.00	1.5	358.99	732.34	691.4	24' PAVEMENT, 8' SHOULDERS	
2.670	6.439	C	19900.32	26.00	1.5	2395.41	4886.64	4643.4	26' PAVEMENT	
6.439	6.548	C	575.52	24.00	1.5	63.95	130.46	122.8	24' PAVEMENT	
6.439	6.475	LT & RT	190.08	VAR	1.5	9.36	19.09	18.0	VARIABLE LT/RT SHOULDERS	
6.439	6.475	LT & RT	190.08	VAR	1.75	4.05	8.26	6.7	WEDGING FOR SHOULDER DROPOFF	
6.512	6.548	LT & RT	190.09	VAR	1.5	9.07	18.50	17.4	VARIABLE LT/RT SHOULDERS	
6.512	6.548	LT & RT	190.09	VAR	1.75	3.64	7.43	5.9	WEDGING FOR SHOULDER DROPOFF	
6.548	7.234	C	3622.08	26.00	1.5	435.99	889.42	837.1	26' PAVEMENT	
ADD QUANTITY	LT & RT	VAR	VAR	VAR	VAR	796.78	1625.43		SAFETY EDGE	
0.006	7.234	LT & RT	915.00	15.00	1.5	63.54	129.62	122.0	COUNTY RD & CITY ST (PAVED)	
0.006	7.234	LT & RT	610.00	4.00	1.5	11.30	23.05	21.7	PRIVATE & COMM ENTRANCE (PAVED)	
0.006	7.234	LT & RT	105.00	15.00	3	14.58	29.74	14.0	COUNTY RD & CITY ST (UNPAVED)	
ADD QUANTITY	LT & RT	VAR	VAR	VAR	VAR	70.00			ENTRANCES AS DIRECTED BY ENGINEER	
ADD QUANTITY	C	VAR	VAR	VAR	VAR	542.10			75 TON/MI IRREGULARITIES	
TOTAL							12346.7	9547		

GUARDRAIL								
LM	LM	BR#	OFFSET	MGS	CRASHWORTHY END TERMINAL TYPE A (MASH) EACH	MOD SHAPING SLOPES CLASS III 100 FT	REMARKS	
				BRIDGE APPROACH TRANSITION (THREE-BEAM) EACH				6' POST GUARDRAIL LF
6.456	6.475	A0844	RT	1	100.0	1	1.9	
6.475	6.475	A0844	LT	1		1	0.9	
6.512	6.512	A0844	RT	1		1	0.9	
6.512	6.531	A0844	LT	1	100.0	1	1.9	
TOTAL				4	200	4	6	

SEE STD 606.81 FOR GRADING LIMITS. USE PREFERRED GRADING UNLESS OTHERWISE NOTED OR APPROVED BY ENGINEER. ANY ADDITIONAL MATERIAL AND LABOR REQUIRED TO INSTALL PER MANUFACTURER'S RECOMMENDATION SHALL BE CONSIDERED COMPLETELY COVERED BY THE ABOVE PAY ITEMS. SEE SPECIAL SHEETS FOR ADDITIONAL DETAIL.

PERMANENT AGGREGATE EDGE TREATMENT							
LM	LM	LOC	LENGTH FT	WIDTH FT	DEPTH IN	PERM AGG EDGE	REMARKS
						TREATMENT 1.7 TON/CY TONS	
0.280	1.698	LT	7487.04	2	3	235.70	
0.280	1.698	RT	7487.04	2	3	235.70	
2.304	6.475	LT	22022.88	2	3	693.31	
2.304	6.475	RT	22022.88	2	3	693.31	
6.512	7.234	LT	3812.16	2	3	120.01	
6.512	7.234	RT	3812.16	2	3	120.01	
TOTAL						2098.1	

APPLICATION RATE MAY BE ADJUSTED AS APPROVED BY ENGINEER

COLDMILLING									
LM	LM	LOC	LENGTH FT	WIDTH FT	DEPTH IN	COLDMILLING DEPTH TRANSITIONS SY	COLDMILLING ≤3" SY	REMARKS	
									0.006
0.006	0.280	LT	1446.72	12.60	VAR		2025.5	12.6' LT PARKING	
0.006	0.280	RT	1446.72	12.60	VAR		2025.5	12.6' RT PARKING	
0.280	0.294	C	75.00	26.00	VAR	216.7		END MILL/FILL	
1.684	1.698	C	75.00	40.00	VAR	333.4		BEGIN MILL/FILL BEFORE BR A8225	
1.698	1.863	C	875.00	24.00	1.5		2333.4	MILL/FILL BEFORE BR A8225	
2.039	2.304	C	1400.00	24.00	1.5		3733.4	MILL/FILL AFTER BR A8225	
2.304	2.318	C	75.00	40.00	VAR	333.4		END MILL/FILL AFTER BR A8225	
7.207	7.221	C	75.00	26.00	VAR	216.7		BEGIN MILL/FILL	
7.221	7.234	C	66.50	26.00	1.5		192.2	MILL/FILL, END PROJECT	
0.006	7.234	LT & RT	915.00	15.00	VAR	1525.0		COUNTY RD & CITY ST (PAVED)	
0.006	7.234	LT & RT	610.00	4.00	VAR	271.1		PRIVATE & COMM ENTRANCE (PAVED)	
ADD QUANTITY	LT & RT	VAR	VAR	VAR	VAR	110.0	360.0	ENTRANCES AS DIRECTED BY ENGINEER	
TOTAL							3007	14528	

MOBILIZATION -
LUMP SUM 1

TEMPORARY PAVEMENT
MARKING PAINT -
LUMP SUM 1
See JSP for details.

RUMBLE STRIPS						
LM	LM	LOC	LENGTH FT	BITUMINOUS SHLDR		REMARKS
				6" STA	12" STA	
0.578	1.401	C	4345.44	86.91	0.00	
1.401	2.670	C	6700.32	0.00	67.00	
2.670	6.688	C	21215.04	424.30	0.00	
TOTAL				511.3	67.0	

REMOVAL OF IMPROVEMENTS - LUMP SUM 1				
LM	LM	LOC	DESCRIPTION	REMARKS
6.442	6.475	RT	176.14' GUARDRAIL	BR A08442
6.465	6.475	LT	53.41' GUARDRAIL	BR A08442
6.512	6.522	RT	55.32' GUARDRAIL	BR A08442
6.512	6.546	LT	182.12' GUARDRAIL	BR A08442
LOCATIONS AND QUANTITIES ARE APPROXIMATE FOLLOW SEC 202.30				

PAVEMENT MARKING					
LOC	WATERBORNE PAINT			PREFORMED THERMOPLASTIC 24" WHITE STOP BAR LF	REMARKS
	4" SOLID LF	4" INTER LF	4" WHITE SOLID LF		
RTE M	13358	31881	63656	12	
CHAFFEE PARKING			1267		
TOTAL	45239		64923	12	

SEE JSP FOR CONTRACTOR'S RESPONSIBILITY TO CREATE A PAVEMENT MARKING LOG PRIOR TO ANY CONSTRUCTION OPERATIONS THAT MAY AFFECT EXISTING PAVEMENT MARKING.

TEMPORARY PAVEMENT MARKING					
LOC	TEMPORARY REMOVABLE TAPE			PAVEMENT MARKING REMOVAL LF	REMARKS
	4" LF	24" LF	4" LF		
RTE M	879	24	2000	335	BR A0844
TOTAL	879	24	2000	335	

SEE JSP FOR CONTRACTOR'S RESPONSIBILITY TO CREATE A PAVEMENT MARKING LOG PRIOR TO ANY CONSTRUCTION OPERATIONS THAT MAY AFFECT EXISTING PAVEMENT MARKING.

BRIDGE SEAL COAT								
LM	LM	LOC	LENGTH FT	WIDTH FT	SEAL COAT AGGREGATE GRADE B1 SY	EMULSIFIED ASPHALT SEAL COAT 0.3 GAL/SY GAL	REMARKS	
								6.475
TOTAL						652	196	

GRAVEL A OR CRUSHED STONE B							
LM	LM	LOC	LENGTH FT	WIDTH FT	DEPTH IN	GRAVEL A OR CRUSHED STONE B 1.75 TON/CY	REMARKS
						TONS	
0.006	7.234	LT & RT	1665	4	1.5	27.0	PRIVATE & COMM ENTRANCE (UNPAVED)
ADD QUANTITY	LT & RT	VAR	VAR	VAR	VAR	5.0	ENTRANCES AS DIRECTED BY ENGINEER
TOTAL						32	

STATE OF MISSOURI
TIMOTHY CHRISTOPHER PICKETT
PROFESSIONAL ENGINEER
11/20/2024 11:45 AM
TIMOTHY CHRISTOPHER PICKETT - CIVIL
MO-PE-017000351

DATE PREPARED
11/20/2024

ROUTE STATE
M MO
DISTRICT SHEET NO.
SE 3

COUNTY
SCOTT
JOB NO.
J9S3813
CONTRACT ID.

PROJECT NO.

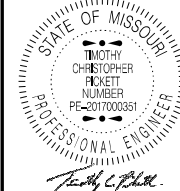
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TIMOTHY CHRISTOPHER FICKETT - CNIL
MO-PE-2017000351
DATE PREPARED
10/23/2024
ROUTE STATE
M MO
DISTRICT SHEET NO.
SE 3
COUNTY
SCOTT
JOB NO.
J9S3813
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

Table with 10 columns: DESCRIPTION, DATE, and 8 empty columns for tracking.

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

SUMMARY OF QUANTITIES
SHEET 2 OF 2

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL AREA, QTY RELOC, TOTAL RELOC, SIGN NUM., DESCRIPTION. Includes sections for WARNING SIGNS, GUIDE SIGNS, REGULATORY SIGNS, and MISCELLANEOUS SIGNS.

Table with columns: SIGN, SIZE, AREA, QTY, TOTAL, RELOC, SIGN NUM., DESCRIPTION. Includes sections for GUIDE SIGNS, REGULATORY SIGNS, and MISCELLANEOUS SIGNS.

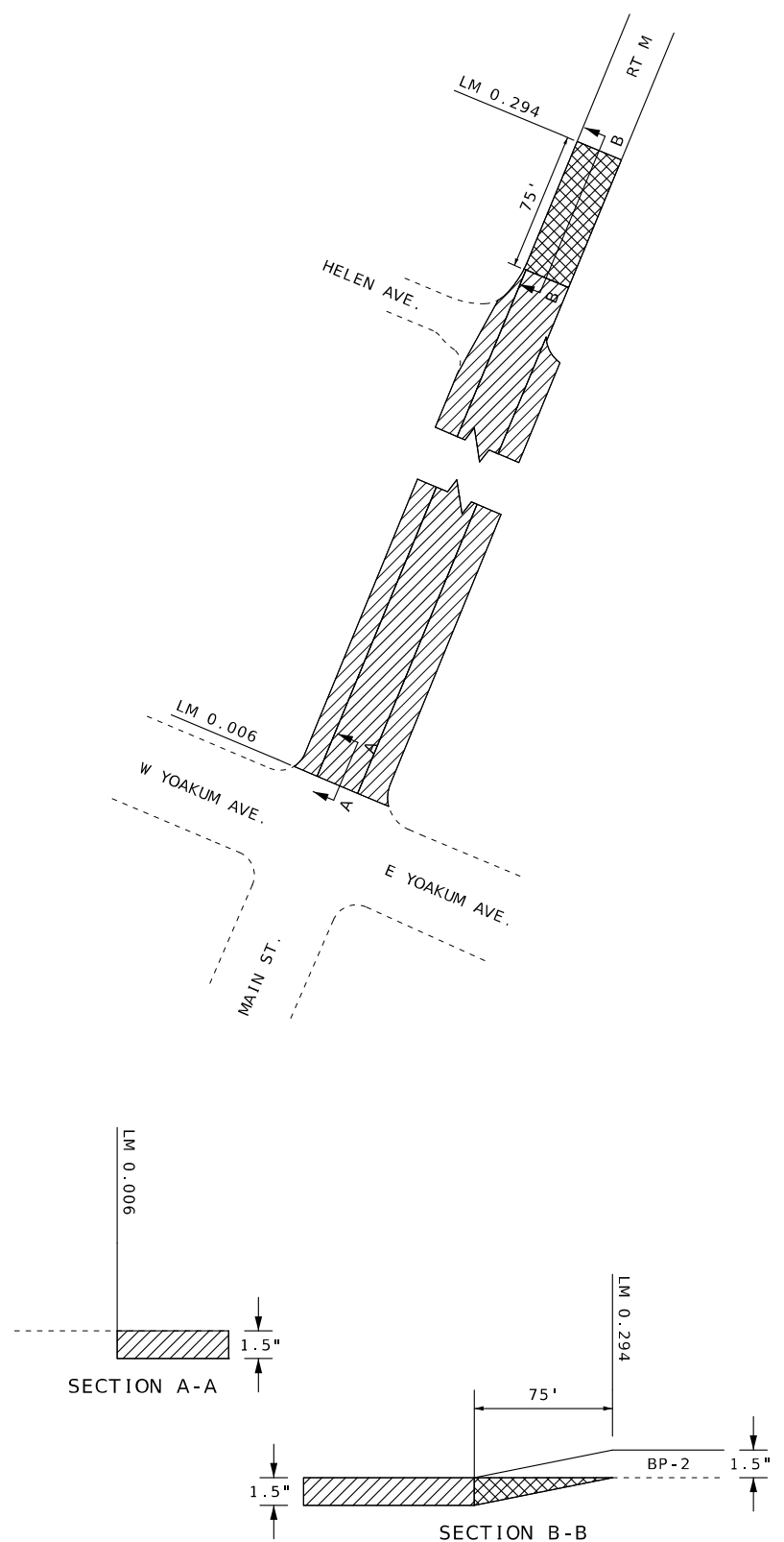
Table with columns: ITEM NUMBER, TOTAL QTY, DESCRIPTION. Lists items with item numbers like 6122008, 6122009, etc.

616-10.05 CONSTRUCTION SIGNS TOTAL 1206
616-10.10 RELOCATED SIGNS TOTAL *

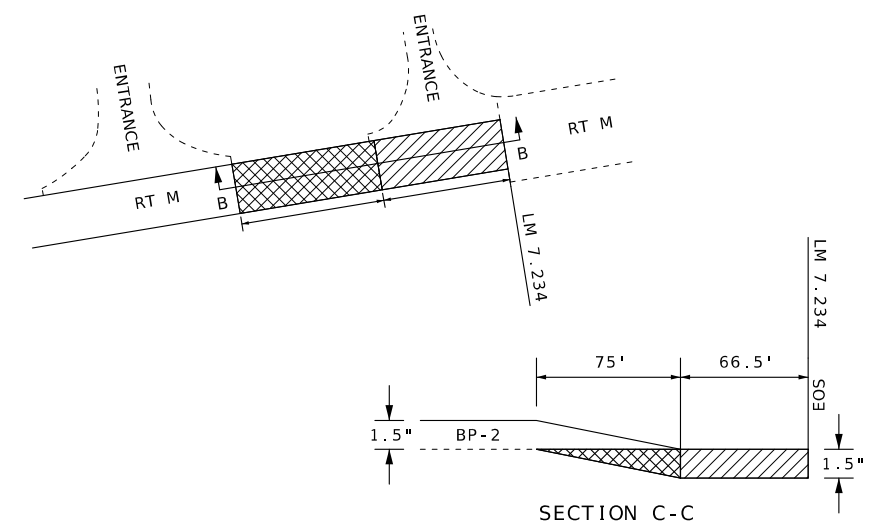
*NO DIRECT PAY FOR RELOCATION OF TEMPORARY TRAFFIC CONTROL SIGNS OR DEVICES.

NOTE: SEE MODOT STANDARD PLANS 616.20 FOR SPECIFICATIONS ON TRAFFIC CONTROL RELATED TO THIS OPERATION

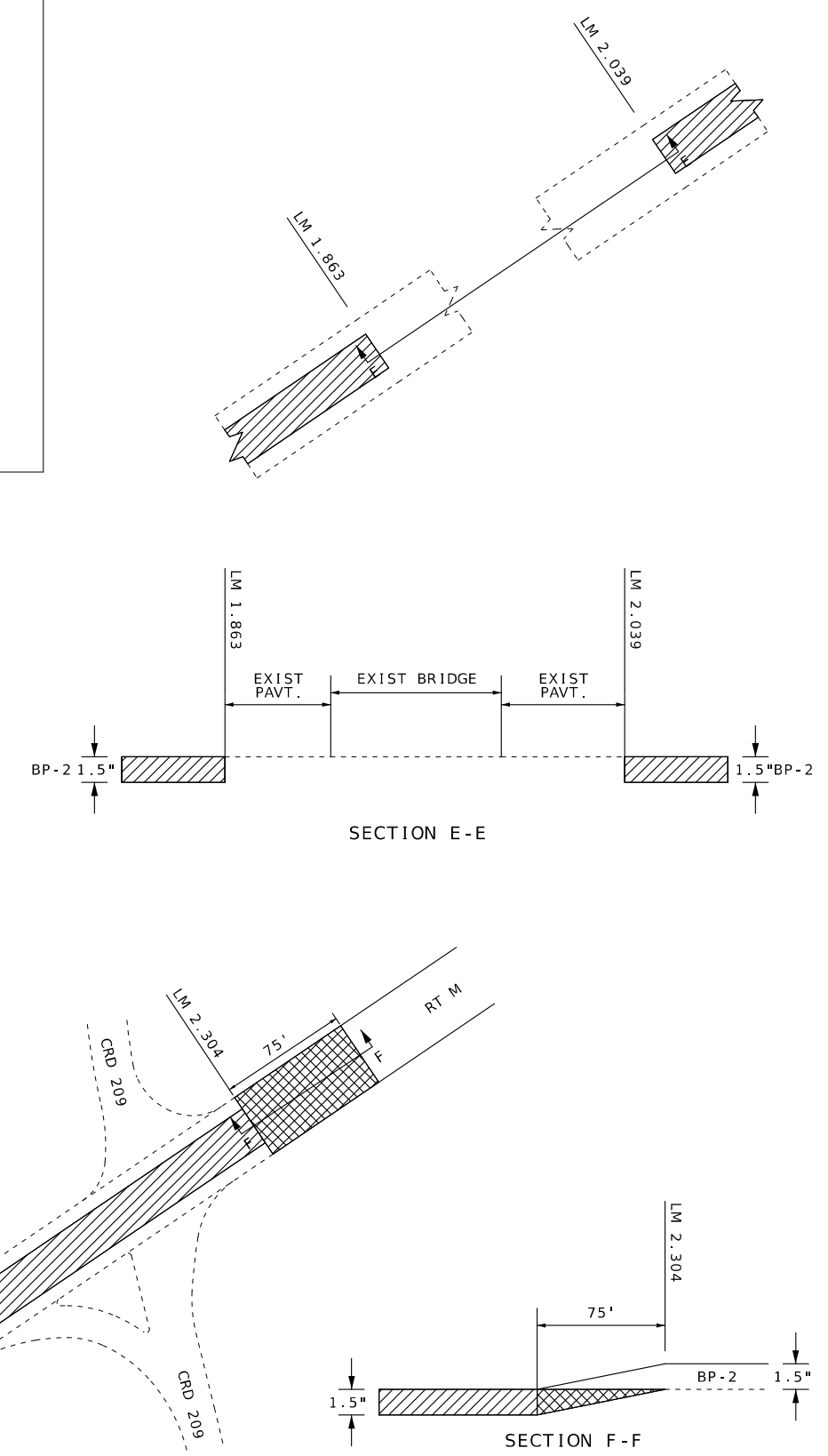
BEGIN PROJECT



END PROJECT

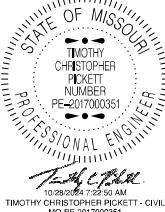



BRIDGE TRANSITION A8225

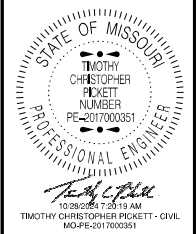
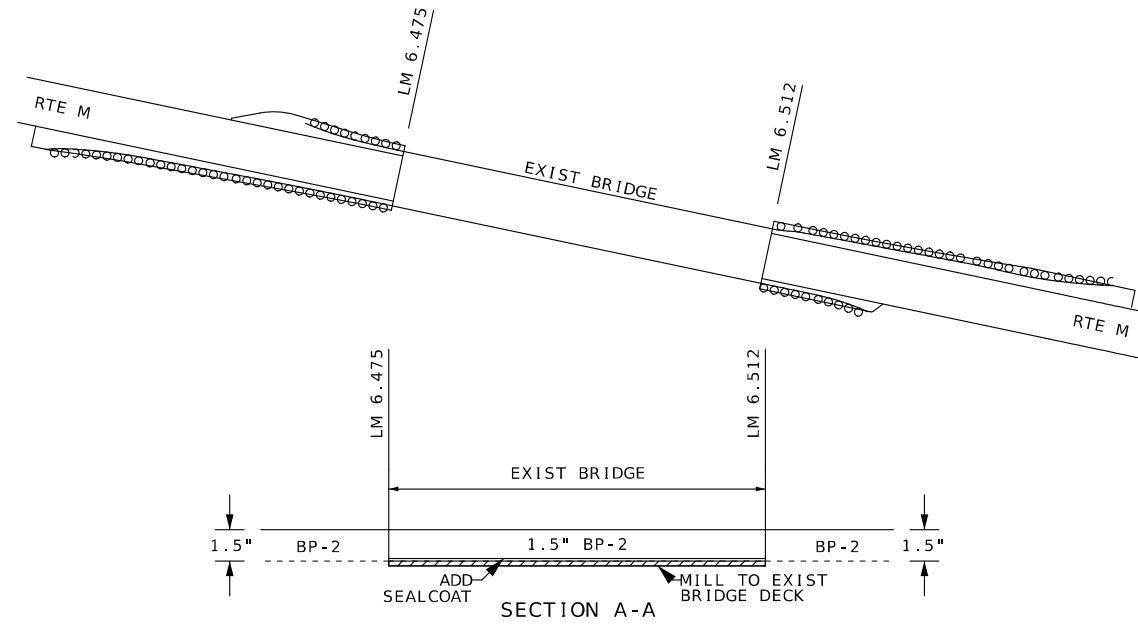


DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

	GRAVEL A OR CRUSHED STONE B		MODIFIED COLDMILLING (DEPTH TRANSITION)		MILL/FILL
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 TIMOTHY CHRISTOPHER PICKETT - CIVIL MO-PE-2017000351	
DATE PREPARED 10/23/2024	
ROUTE M	STATE MO
DISTRICT SE	SHEET NO. 4
COUNTY SCOTT	
JOB NO. J9S3813	
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)
	
PAVEMENT DETAIL SPECIAL SHEET 1 OF 2	

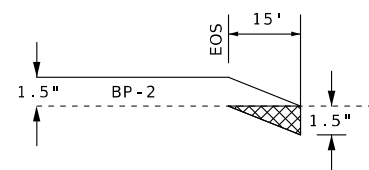
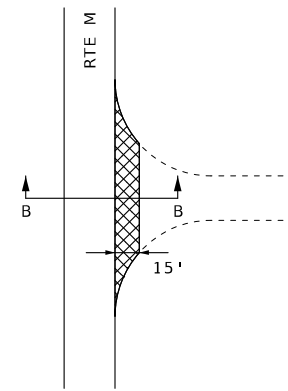
BRIDGE TRANSITION
A0844



DATE PREPARED 10/23/2024	
ROUTE M	STATE MO
DISTRICT SE	SHEET NO. 5
COUNTY SCOTT	
JOB NO. J9S3813	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

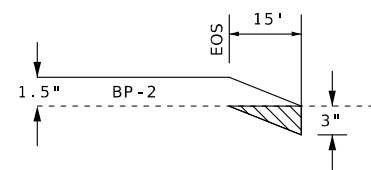
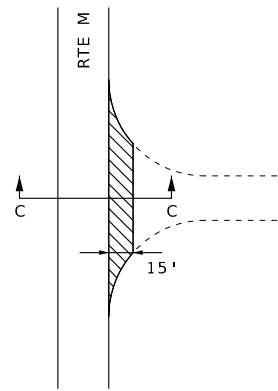
DATE	DESCRIPTION

COUNTY ROADS & CITY STREETS
(PAVED)



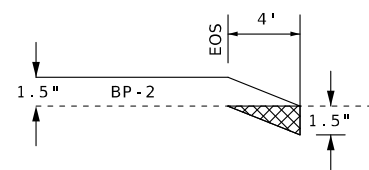
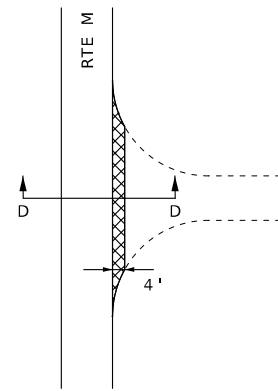
SECTION B-B

COUNTY ROADS & CITY STREETS
(UNPAVED)



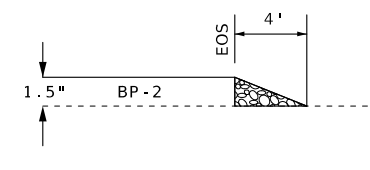
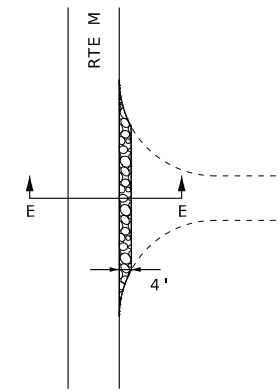
SECTION C-C

PRIVATE & COMMERCIAL ENTRANCES
(PAVED)



SECTION D-D

PRIVATE & COMMERCIAL ENTRANCES
(UNPAVED)



SECTION E-E



GRAVEL A OR
CRUSHED STONE B



MODIFIED COLDMILLING
(DEPTH TRANSITION)



COLDMILLING ≤ 3"



GRADING

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



WO20-1
②



WO20-4
⑦



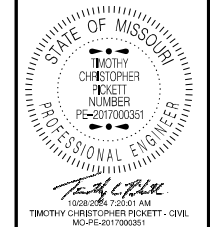
WO20-7a
⑧



WO21-5
⑳

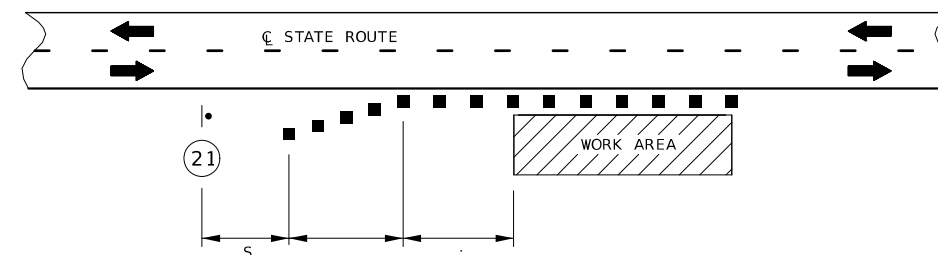
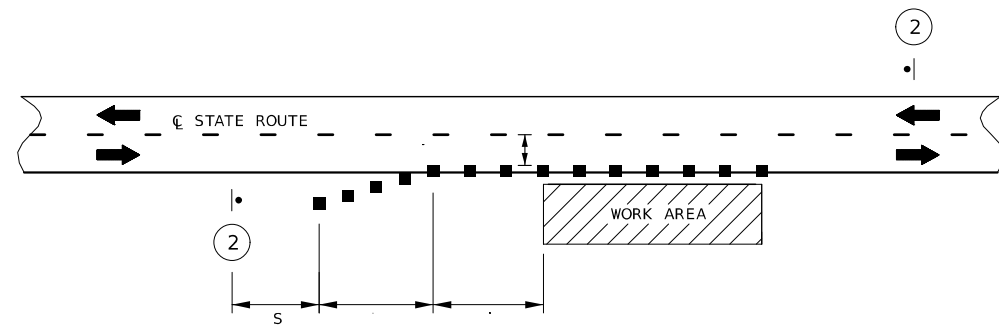
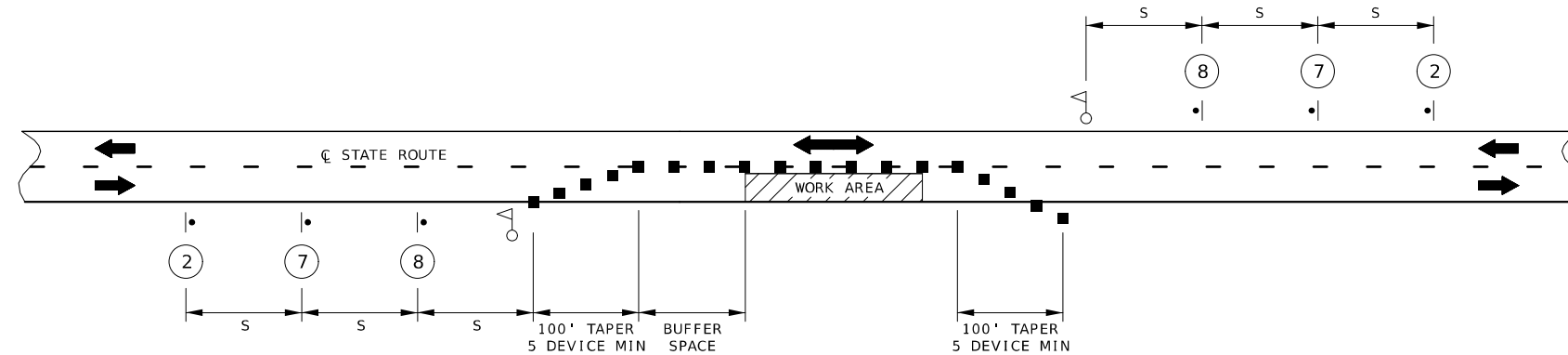
TRAFFIC CONTROL
LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ◁ FLAGGER



DATE PREPARED
10/23/2024

ROUTE M	STATE MO
DISTRICT SE	SHEET NO. 6
COUNTY SCOTT	
JOB NO. J9S3813	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



PERMANENT POSTED SPEED (MPH)	SIGN SPACING (1) (FT)	
	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0 - 35	200 FT	200 FT
40 - 45	350 FT	500 FT
50 - 55	500 FT	1000 FT
60 - 70	1000 FT	

PERMANENT POSTED SPEED (MPH)	TAPER LENGTH T1 SHOULDER (1)	TAPER LENGTH L FOR LATERAL SHIFTS (2)			BUFFER SPACE LENGTH	CHANNELIZER SPACING (3)	
		10 FT	11 FT	12 FT		TAPERS	BUFFER SPACE WORK AREA
		0 - 35	70 FT	205 FT		225 FT	245 FT
40 - 45	150 FT	450 FT	495 FT	540 FT	400 FT	40 FT (4)	80 FT (4)
50 - 55	185 FT	550 FT	605 FT	660 FT	560 FT	50 FT (5)	80 FT (5)
60 - 70	235 FT	700 FT	770 FT	840 FT	840 FT	60 FT (5)	120 FT (5)

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

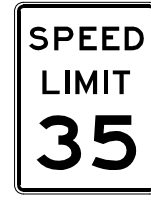
TRAFFIC CONTROL
SHEET 1 OF 2



WO20-1
②



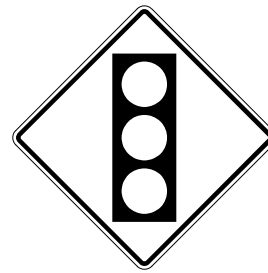
W3-5
③



R2-1
④



WO20-4
⑦



WO3-3
⑫



R2-1
⑫



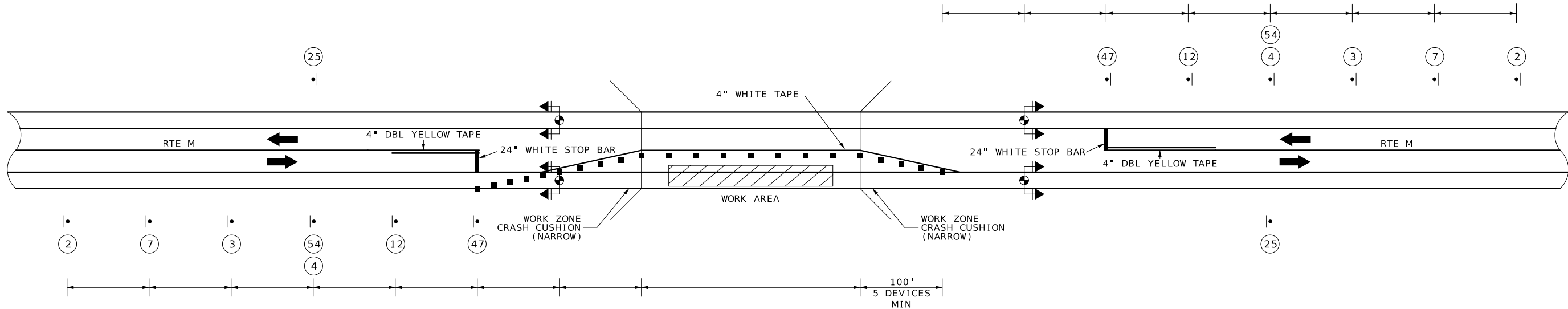
R10-6L
④⑦

TRAFFIC CONTROL LEGEND

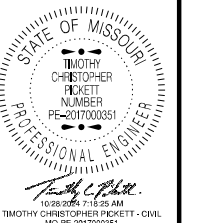
- SIGN (SINGLE SIDED)
- CHANNELIZER
- ◀▶ PORTABLE TRAFFIC SIGNAL



GO20-5aP
⑤④



LANE CLOSURE WITH SIGNALS
FOR BR A0844



DATE PREPARED
10/23/2024

ROUTE STATE
M MO

DISTRICT SHEET NO.
SE 7

COUNTY
SCOTT

JOB NO.
J9S3813

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

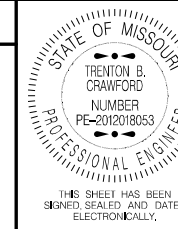
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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JEFFERSON CITY, MO 65102
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TRAFFIC CONTROL
SHEET 2 OF 2

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

U.I.P. AND REHABILITATE EXISTING (60'-75'-60') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS



DATE PREPARED
11/19/2024

ROUTE M STATE MO

DISTRICT BR SHEET NO. 1

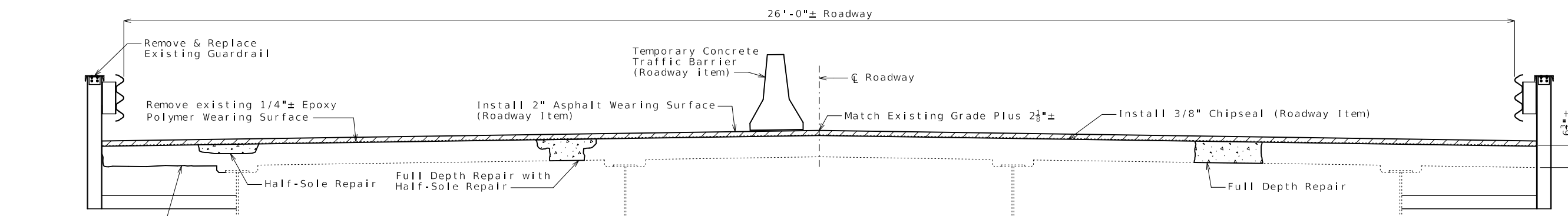
COUNTY SCOTT

JOB NO. J9S3813

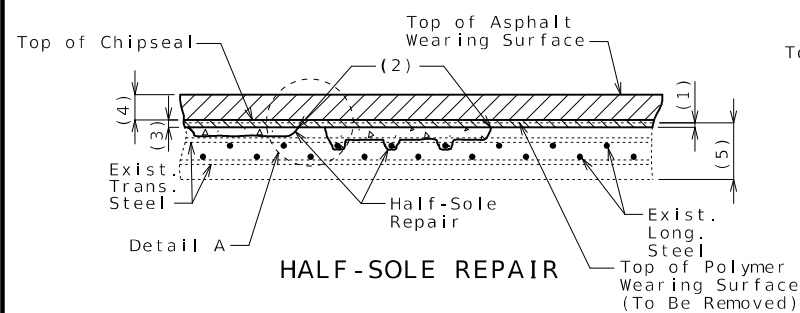
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PROJECT NO.

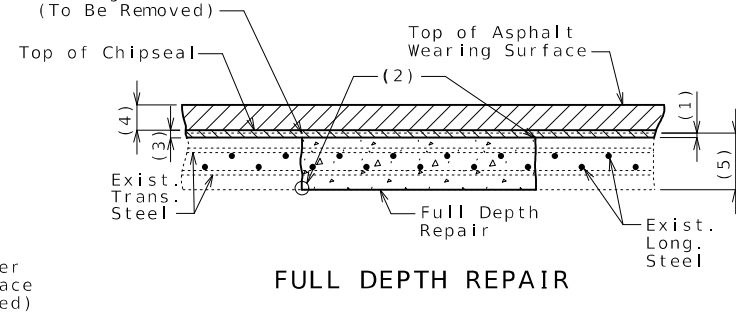
BRIDGE NO. A08442



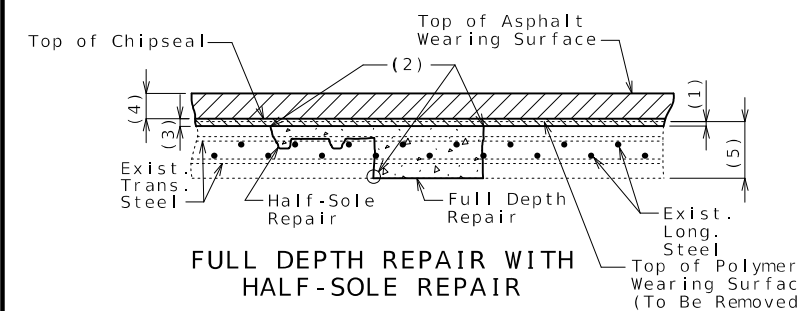
TYPICAL SECTION THRU EXISTING DECK



HALF-SOLE REPAIR

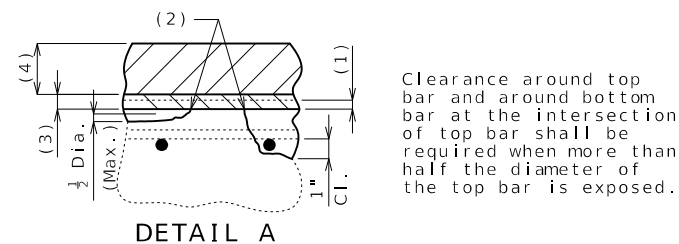


FULL DEPTH REPAIR



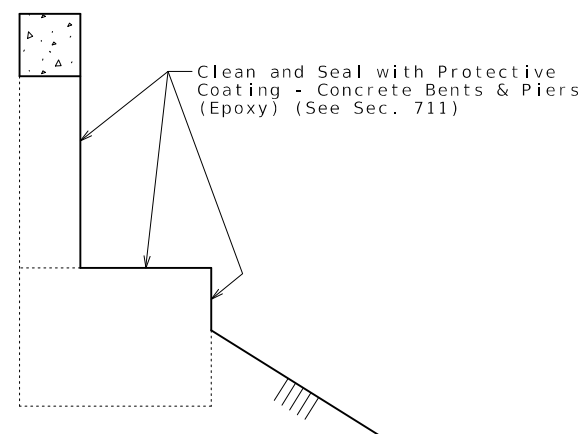
FULL DEPTH REPAIR WITH HALF-SOLE REPAIR

- (1) Remove existing 1/4"± epoxy polymer wearing surface.
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Install 3/8"± Chipseal. (Roadway Item)
- (4) Install 2"± minimum asphalt wearing surface. (Roadway Item)
- (5) 7"± Existing deck thickness.



Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.

DETAIL A



TYPICAL SECTION THRU END BENT NO. 1 SHOWING PROTECTIVE COATING

Estimated Quantities		
Item		Total
Removal of Seal Coat or Polymer Wearing Surface	sq. foot	5,740
Removal of Existing Expansion Joint & Adjacent Concrete	linear foot	29
Removal of Existing Guardrail	linear foot	397
Class B-2 Concrete	cu. yard	1.8
Half-Sole Repair	sq. foot	500
Full Depth Repair	sq. foot	100
Cleaning and Epoxy Coating	sq. foot	1,145
Reinforcing Steel (Epoxy Coated)	pound	250
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1
Bridge Guardrail (Thrie Beam)	linear foot	397
Strip Seal Expansion Joint System	linear foot	29

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 7

Design Loading:

H15-44 (1961), HS20-44 (New Construction)

Design Unit Stresses:

Class B-2 Concrete (Superstructure) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Reinforcing Steel:

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

Concrete Protective Coating:

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 finalizing the shop drawings.

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.

Traffic Handling:

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

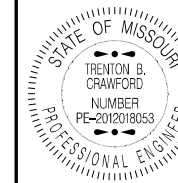
REPAIRS TO BRIDGE: ROUTE M OVER RAMSEY CREEK

ROUTE M FROM ROUTE 61 TO ROUTE A
ABOUT 0.9 MILE WEST OF ROUTE 61
BEGINNING STATION 384+42.00± (Match Existing)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT



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DATE PREPARED
11/19/2024

ROUTE M STATE MO

DISTRICT BR SHEET NO. 2

COUNTY SCOTT

JOB NO. J9S3813

CONTRACT ID.

PROJECT NO.

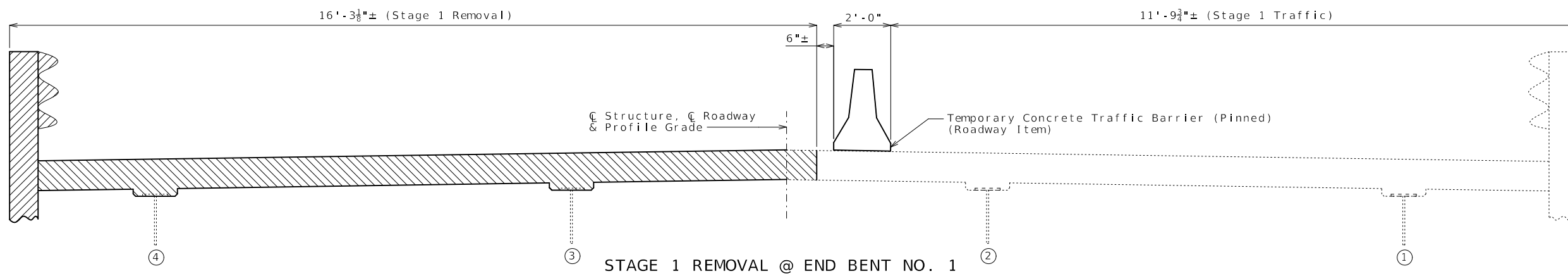
BRIDGE NO. A08442

DESCRIPTION	DATE

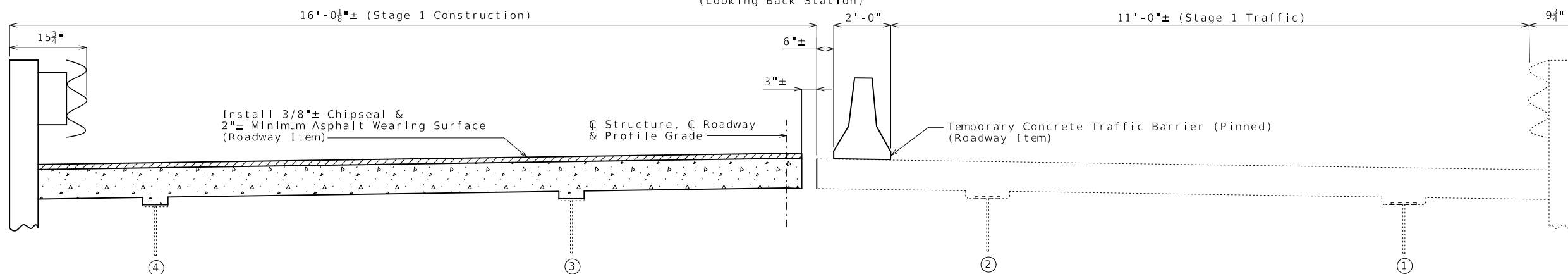
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

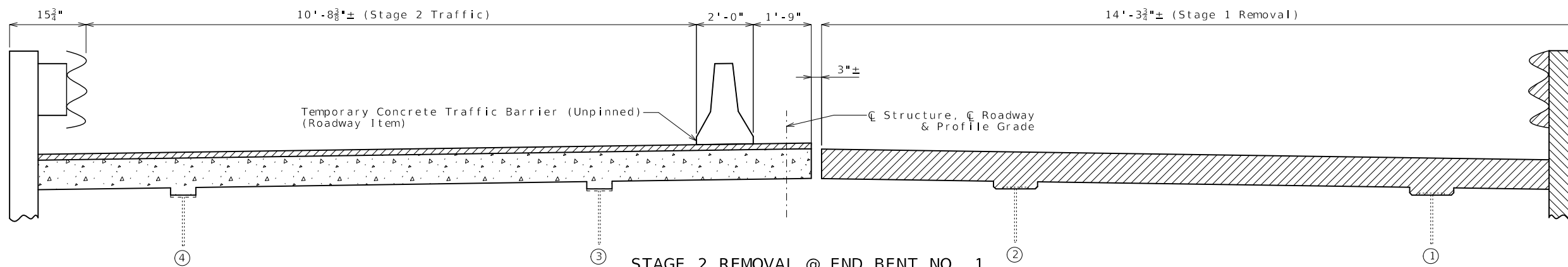
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



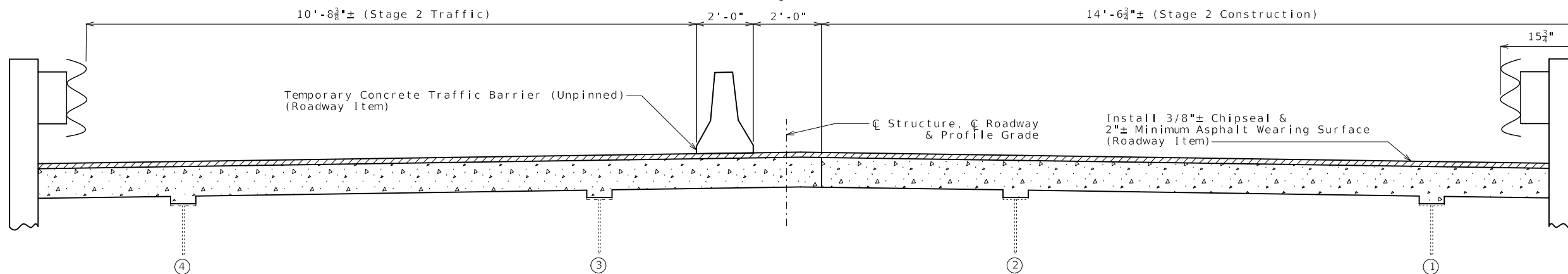
STAGE 1 REMOVAL @ END BENT NO. 1
(Looking Back Station)



STAGE 1 CONSTRUCTION @ END BENT NO. 1
(Looking Back Station)



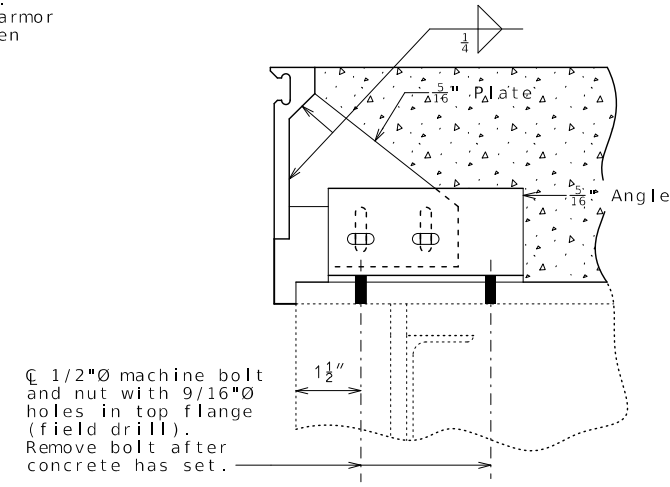
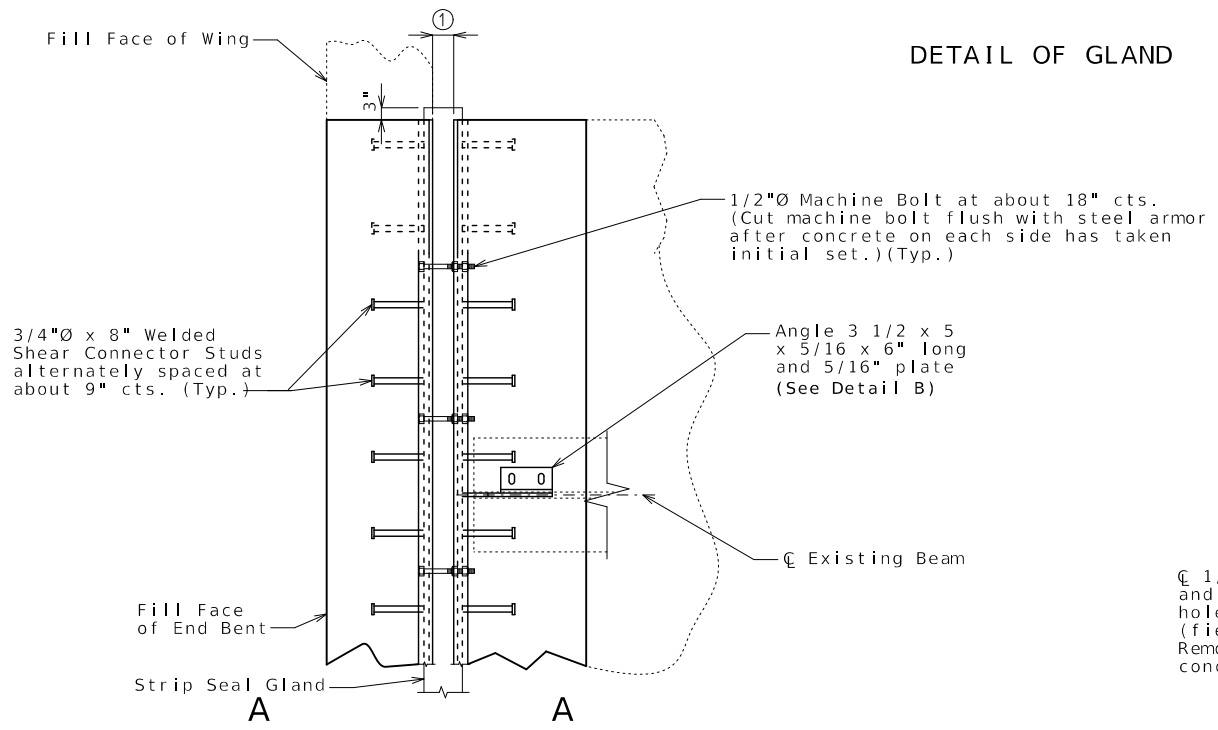
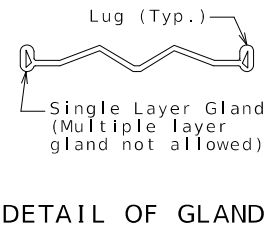
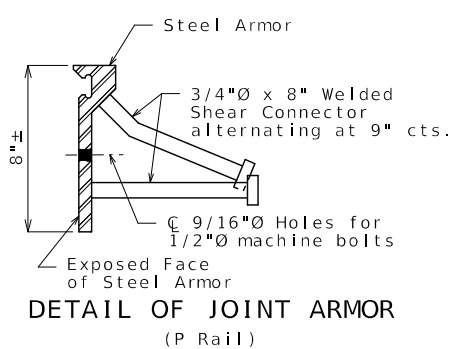
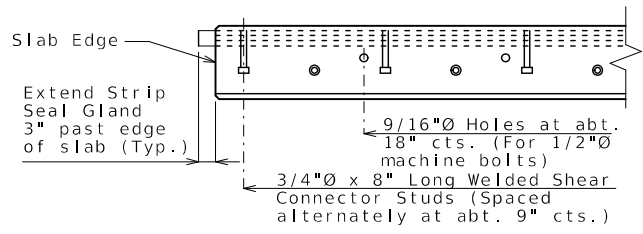
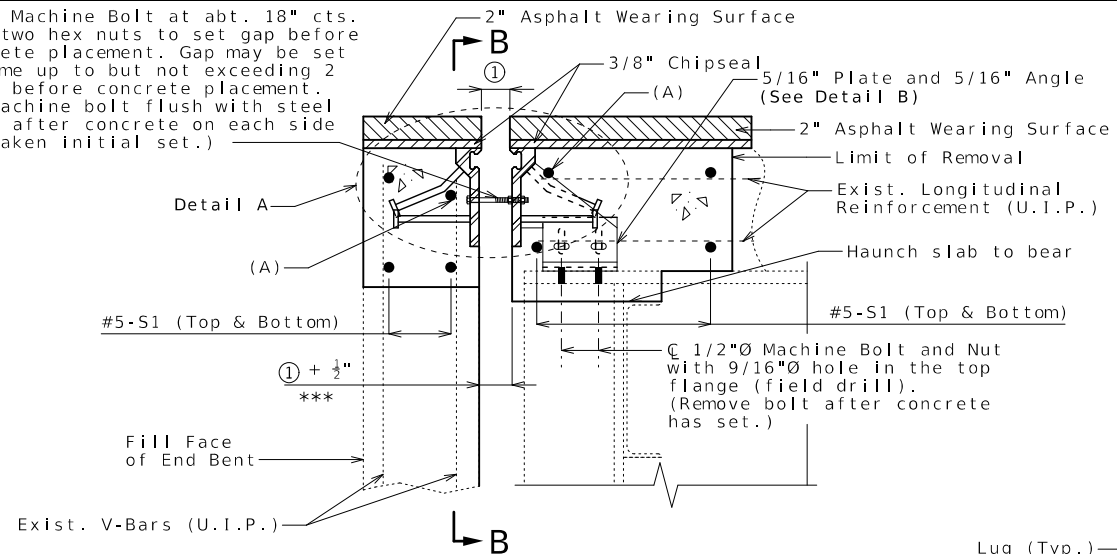
STAGE 2 REMOVAL @ END BENT NO. 1
(Looking Back Station)



STAGE 2 CONSTRUCTION @ END BENT NO. 1
(Looking Back Station)

Note:
Method of attachment for pinned temporary barrier curb shall be tie down strap.

1/2"Ø Machine Bolt at abt. 18" cts. (Use two hex nuts to set gap before concrete placement. Gap may be set anytime up to but not exceeding 2 hours before concrete placement. Cut machine bolt flush with steel armor after concrete on each side has taken initial set.)



GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for staged construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

The strip seal gland shall be installed in joints in one continuous piece without field splices. Factory splicing will be permitted for joints in excess of 53 feet.

Structural steel for the expansion joint system shall be ASTM A709 Grade 36 except the steel armor may be ASTM A709 Grade 50W. Anchors for the expansion joint system shall be in accordance with Sec 1037. Strip seal expansion joint system shall be in accordance with Sec 717.

Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

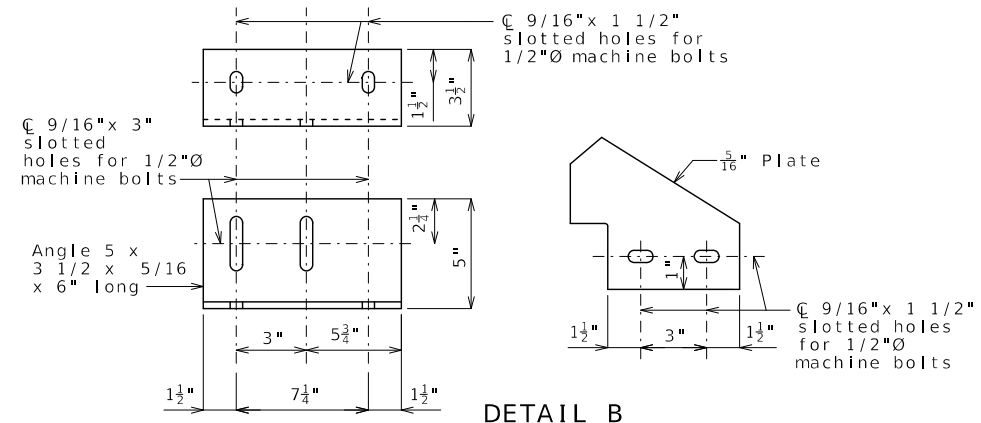
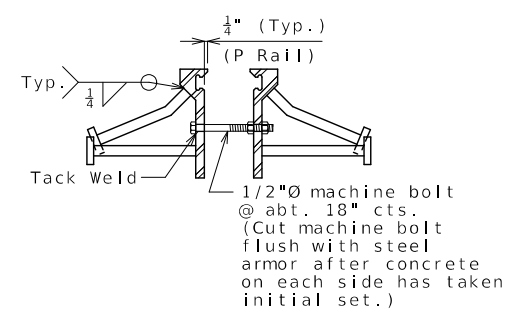
Longitudinal reinforcing steel shall be cut/bent so that ends shall be 1" from the vertical leg of the steel armor at the expansion joint system.

Concrete shall be forced under and around steel armor and anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT Construction personnel will indicate the strip seal expansion joint system installed.

Steel armor may also be referred to as extrusion or rail. The terms P and R rail are used for identification only, and are not endorsements for any particular manufacturer.



Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	Allowed Installation Gap Normal to Joint at RDWY Surface @ Air/Surface Temperature						③
			① @ 40°F	② @ 50°F	② @ 60°F	② @ 70°F	② @ 80°F	② @ 90°F	
D S Brown	Strip seal L2-400	1 1/8"	2 1/4"	2 3/8"	2	1 3/8"	1 3/4"	1 5/8"	□
D S Brown	Strip seal L2-500	1 1/8"	2 1/4"	2 3/8"	2	1 3/8"	1 3/4"	1 5/8"	□
Watson Bowman Acme (Wabo)	Strip seal SE-400	1 1/8"	2 1/4"	2 3/8"	2	1 3/8"	1 3/4"	1 5/8"	□
Watson Bowman Acme (Wabo)	Strip seal SE-500	1 1/8"	2 1/4"	2 3/8"	2	1 3/8"	1 3/4"	1 5/8"	□

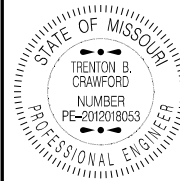
STATE OF MISSOURI
TRENTON B. CRAWFORD
NUMBER PE-2012018053
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED		11/19/2024	
ROUTE	M	STATE	MO
DISTRICT	BR	SHEET NO.	3
COUNTY			
SCOTT			
JOB NO.			
J9S3813			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A08442			
DESCRIPTION	DATE		
	DATE		

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



THIS SHEET HAS BEEN
SIGNED, SEALED AND DATED
ELECTRONICALLY.

DATE PREPARED
11/19/2024

ROUTE STATE
M MO

DISTRICT SHEET NO.
BR 4

COUNTY
SCOTT

JOB NO.
J9S3813

CONTRACT ID.

PROJECT NO.

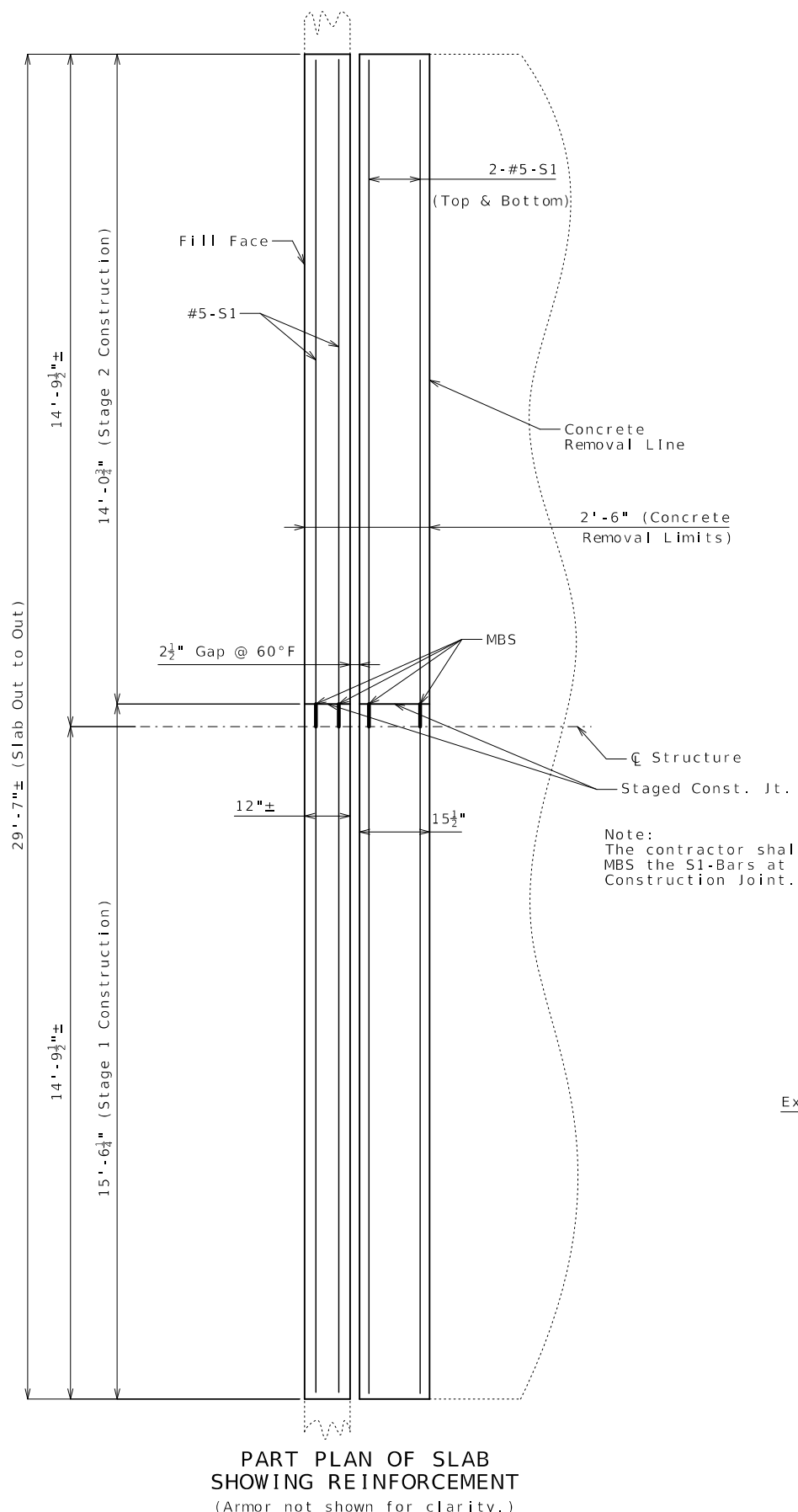
BRIDGE NO.
A08442

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

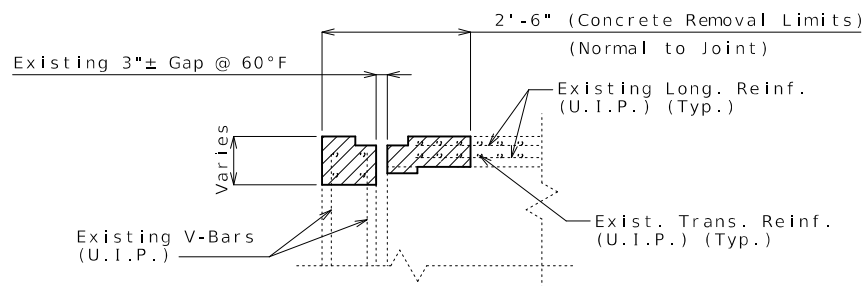
MoDOT

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



PART PLAN OF SLAB
SHOWING REINFORCEMENT
(Armor not shown for clarity.)

Note:
The contractor shall cut and
MBS the S1-Bars at the Staged
Construction Joint.



PART SECTION THRU SLAB
SHOWING REMOVAL

Notes:

Concrete for slab replacement shall be Class B-2.

For details of expansion joint system not shown, see Sheet No. 3.

#5-S1 bars shall be shifted where necessary to clear shear connector studs on the expansion joint system.

Payment for slab concrete, complete-in-place, for expansion joint replacement will be considered completely covered by the contract unit price for Class B-2 Concrete.

Payment for furnishing and installing slab reinforcement will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

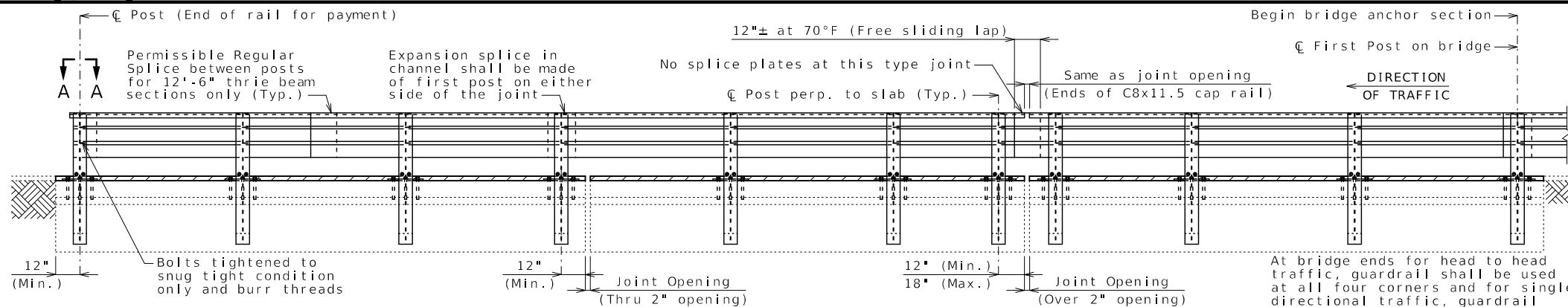
Cost of removing existing expansion device and slab concrete within the limits shown will be considered completely covered by the contract unit price for Removal of Existing Expansion Joints & Adjacent Concrete.

The #5-S1 bars shall be segmented to accommodate staged construction. The contractor shall use a mechanical bar splice in lieu of a lap splice. The actual bar segment length will be determined by the contractor to accommodate the manufacturer's recommendations for installation and staged construction.

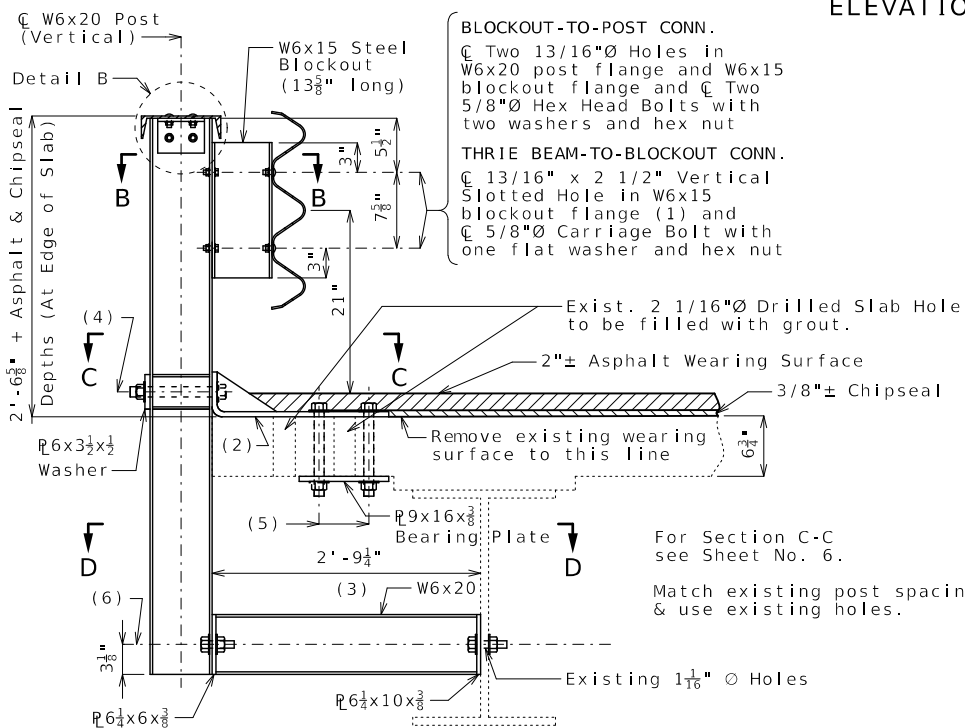
The cost of furnishing and installing the mechanical bar splices will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

Top of backwall for end bents shall be formed to the crown and grade of the roadway.

DETAILS OF SLAB AND BARRIER CURB REPLACEMENT AT END BENT NO. 1

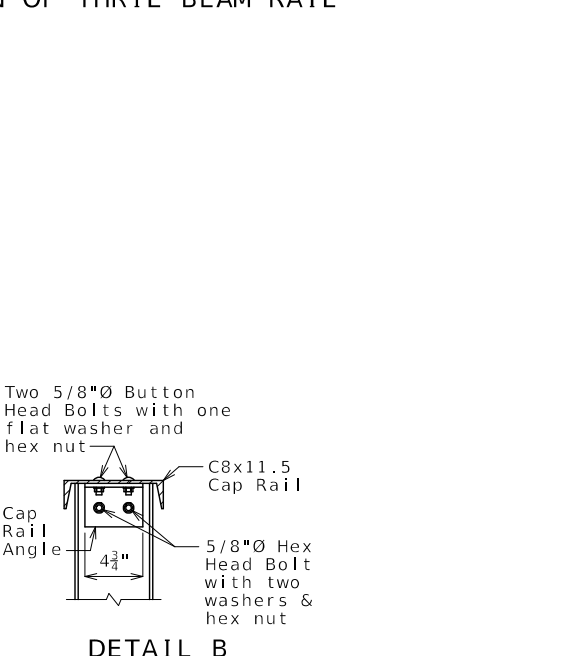


ELEVATION OF THRIE BEAM RAIL

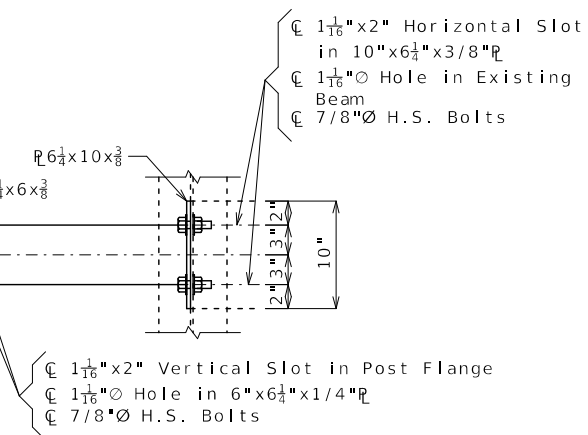


PART SECTION AT RAIL POST

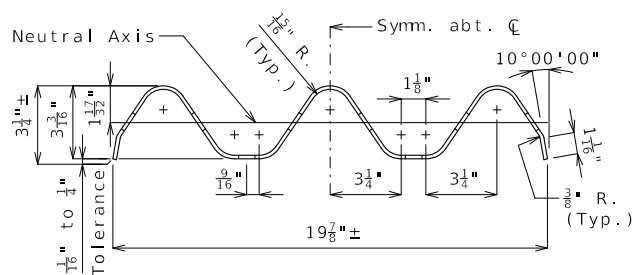
- (1) Required on one side of web only, but may be provided on both sides of web at the contractor's option.
- (2) 1/2" Bent Plate (Level with qualified special mortar, see Sec 704)
- (3) Cantilever may vary.
- (4) POST-TO-BENT PLATE CONNECTION
 - Two 1"Ø ASTM F3125 Grade A325 Type 1 Bolts with hardened washers and hex nuts
 - Two 1 1/16"x 1 1/2" Vertical Slotted Holes in both post flanges
 - Two 1 1/16"Ø Holes in washer plate & bent plate
- (5) BENT PLATE-TO-DECK CONNECTION
 - Three 1"Ø ASTM F3125 Grade A325 Type 1 Bolts with hex nuts and hardened locking washers
 - Three 1 1/4"Ø Holes in bent plate and bearing plate
 - Three 1 1/8"Ø (Min.) Drilled Holes in slab
- (6) POST-TO-TIE CONNECTION (TIE-TO-GIRDER OPTIONAL CONN.)
 - Two 1 1/16" X 2" Horizontal Slots in 10"x 6 1/4"x 3/8" R
 - Two 1 1/16"Ø Holes in Existing Beam
 - Two 1 1/16"Ø x 2" Vertical Slots in Post Flange
 - Two 1 1/16"Ø Holes in 6"x 6 1/4"x 3/8" R
 - Two 7/8"Ø F3125 Grade A325 Type 1 Bolts Each End of W6x20 with Hardened Washers and Hex Nuts



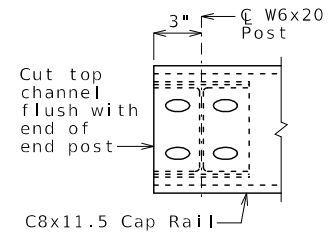
DETAIL B



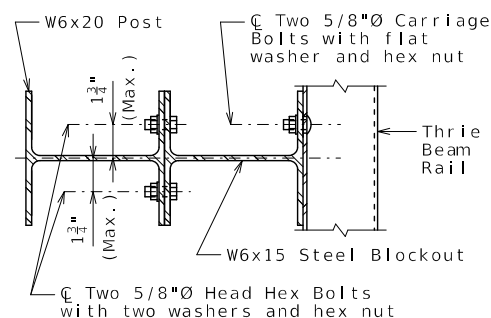
SECTION D-D



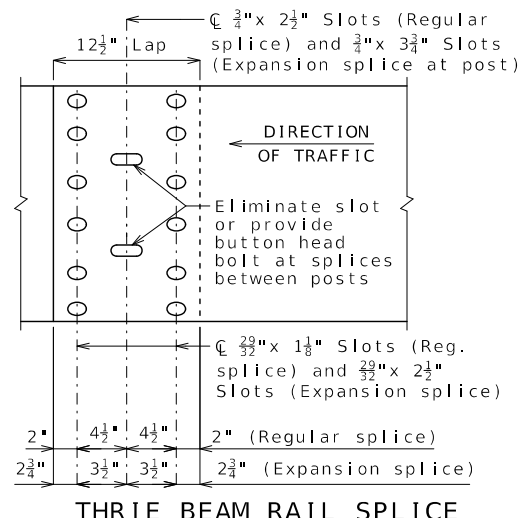
SECTION THRU THRIE BEAM RAIL



PLAN A-A



SECTION B-B



THRIE BEAM RAIL SPLICE

General Notes:

Design Specifications: 2002 AASHTO LFD (17th Ed.) Standard Specifications

Guardrail delineators shall be attached to the top of the guardrail and shall similarly use the delineator details of Missouri Standard Plan 617.10, except that the delineator body shall be attached to the top of the cap rail using galvanized anchorage as shown on Missouri Standard Plan 606.00. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Guardrail delineators will be considered completely covered by the contract unit price for Bridge Guardrail (Thrie Beam).

Panel lengths of channel members shall be attached continuously to a minimum of four posts and a maximum of six posts (except at end bents).

All bolts, nuts, washers and plates will be considered completely covered by the contract unit price for Bridge Guardrail (Thrie Beam).

All steel connecting bolts and fasteners for posts and railing, and all resin anchor bolts, nuts, washers and plates shall be galvanized after fabrication. Protective coating and material requirement of steel railing shall be in accordance with Sec 1040.

Rail posts shall be set perpendicular to roadway profile grade, vertically in cross section and aligned in accordance with Sec 713 except that the rail posts shall be aligned by the use of 3 x 1 3/4-inch shims such that the post deviates not more than 1/2 inch from true horizontal alignment after final adjustment. The shims shall be placed between the blockout and the thrie beam rail. The thickness of the shims shall be determined by the contractor and verified by the engineer before ordering material for this work.

At the expansion slots in the thrie beam rails and channels, the bolts shall be tightened and backed off one-half turn and the threads shall be burred.

At the thrie beam connection to blockout on wings, the bolts shall be tightened and backed off one-half turn and the threads shall be burred.

Minimum length of thrie beam sections is equal to one post space.

A 5/8-inch diameter button-head, oval shoulder bolt with a minimum 3/8-inch thick hex nut shall be used at all slots.

Thrie beam guardrail on the bridge shall be 12-gauge steel.

Posts, cap rail angles, bent plates, blockouts, channels and channel splice plates shall be fabricated from ASTM A709 Grade 36 steel and galvanized.

Flat washers 3 x 1 3/4 x 3/16-inch minimum shall be used at all post bolts between the bolt head and beam. The washers shall be rectangular in shape with an 11/16 x 1-inch slot, or when necessary of such design as to fit the contour of the beam. Rectangular washers 3 x 1 3/4 x 5/8-inch shall be used between the blockout and the thrie beam rail.

Special drilling of the thrie beam may be required at the splices. All drilling details shall be shown on the shop drawings.

Fabrication of structural steel shall be in accordance with Sec 1080.

Expansion splices in the thrie beam rail shall be made at either the first or second post on either side of the joint and on structure at bridge ends. When the splice is made at the second post, an expansion slot shall be provided in the thrie beam rail for connection to the first post to allow for movement.

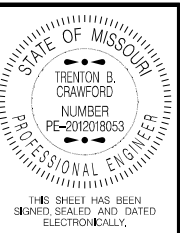
In addition to the expansion provisions at the expansion joints, expansion splices in the thrie beam rail and the channel shall be provided at other locations so that the maximum length without expansion provisions does not exceed 200 feet.

Shim plates 6 x 6 x 1/16-inch may be used between the top of the post and the channel member as required for vertical alignment.

Shim plates shall be galvanized after fabrication.

Contractor shall verify all dimensions in field before finalizing the shop drawings.

See Missouri Standard Plan 606.00 for details not shown.

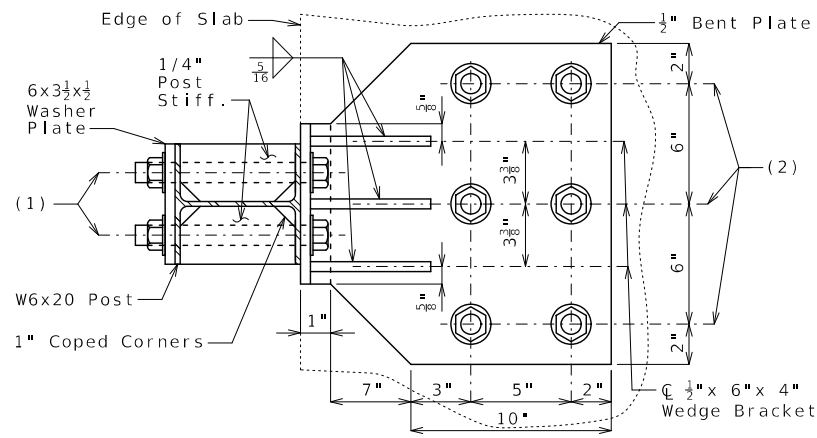


DATE PREPARED		11/19/2024	
ROUTE	STATE	DISTRICT	SHEET NO.
M	MO	BR	5
COUNTY			
SCOTT			
JOB NO.			
J9S3813			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A08442			

DESCRIPTION	DATE

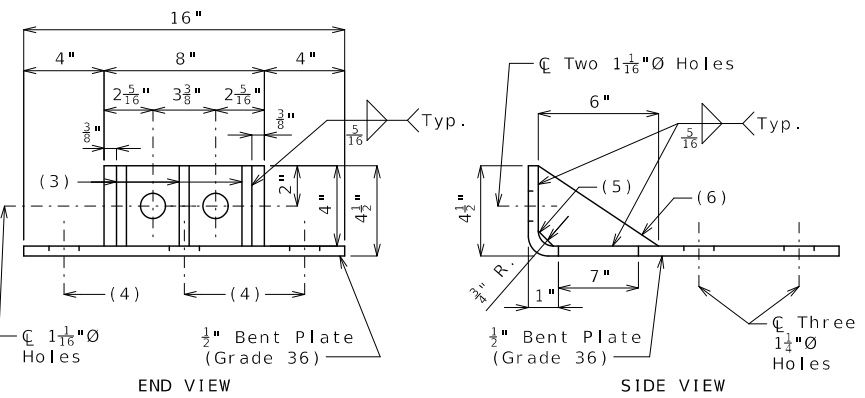
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
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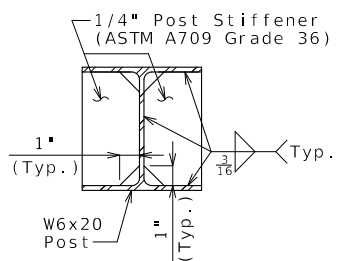
SECTION C-C

- (1) UPPER POST-TO-BENT PLATE CONN.
 - $\text{C } 1" \text{ } \varnothing$ ASTM F3125 Grade A325 Type 1 Bolt with hex nut and hardened washer
 - $\text{C } 1 \frac{1}{16}" \times 1 \frac{1}{2}"$ Vertical Slotted Hole in both post flanges
 - $\text{C } 1 \frac{1}{16}" \text{ } \varnothing$ Hole in washer plate and bent plate
- (1) LOWER POST-TO-GIRDER CONNECTION
 Resin Anchor System to include:
 - $7/8" \text{ } \varnothing$ (Min.) Drilled Hole in girder or as recommended by manufacturer
 - $1" \text{ } \varnothing$ Hole in inside post flange and both end plates
 - $3/4" \text{ } \varnothing$ ASTM A449 Type 1 Threaded Rod snug tight and embedded 5 inches in girder
 - Hex Nut and Hardened Locking Washer
- (1) OPTIONAL LOWER POST-TO-TIE CONNECTION
 - $3/4" \text{ } \varnothing$ ASTM F3125 Grade A325 Type 1 Bolt with hex nut and hardened washer
 - $\text{C } 15/16" \text{ } \varnothing$ Hole in inside post flange and outside end plate
- (2) BENT PLATE-TO-DECK CONNECTION
 Resin Anchor Systems each to include:
 - $1 \frac{1}{8}" \text{ } \varnothing$ (Min.) Drilled Hole in slab or as recommended by manufacturer
 - $1 \frac{1}{4}" \text{ } \varnothing$ Hole in bent plate
 - $1" \text{ } \varnothing$ ASTM A449 Type 1 Threaded Rod snug tight & embedded 8 inches in slab
 - Hex Nut and 2 $1/2" \text{ } \varnothing$ Hardened Locking Washer

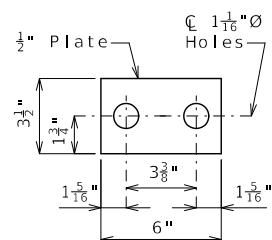


BENT PLATE AND WEDGE BRACKET

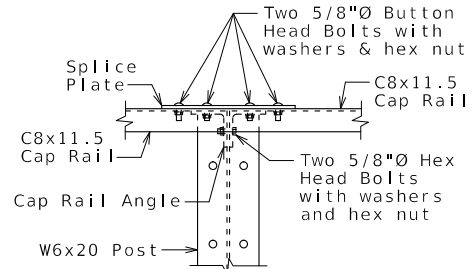
- (3) $\frac{1}{2}" \times 6" \times 4"$ Wedge Bracket
 (4) $\text{C } 2 \text{ } \times 1 \frac{1}{4}" \text{ } \varnothing$ Holes
 (5) $\frac{3}{4}"$ Coped Corners
 (6) Three $\frac{1}{2}" \times 6" \times 4"$ Wedge Brackets



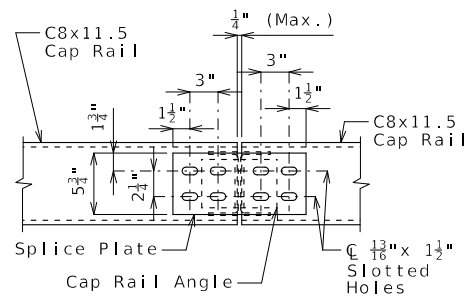
POST STIFFENERS



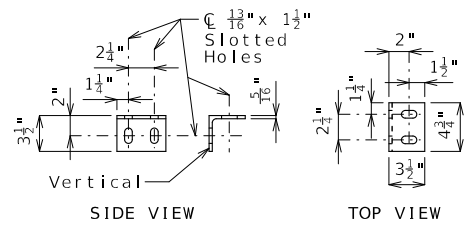
WASHER PLATE



ELEVATION OF TYPICAL SPLICE

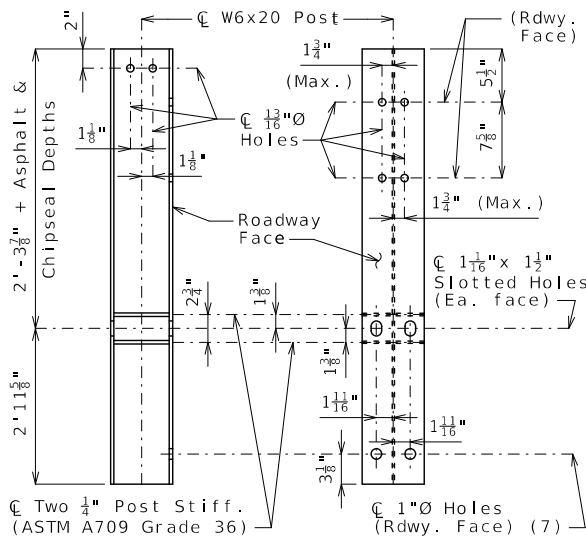


PLAN OF TYPICAL SPLICE



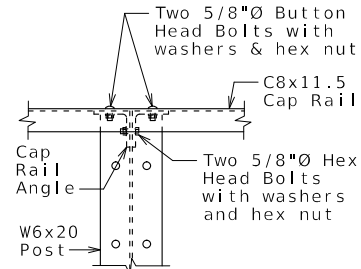
CAP RAIL ANGLE

L3 1/2 x 3 1/2 x 1/16

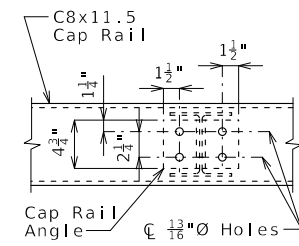


DETAILS OF POST

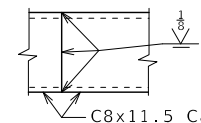
- (7) $\frac{1}{16}" \text{ } \varnothing$ for optional connection



ELEVATION OF RAIL POST CONNECTION

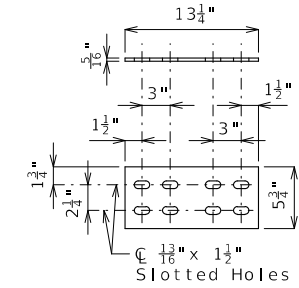


PLAN OF RAIL POST CONNECTION

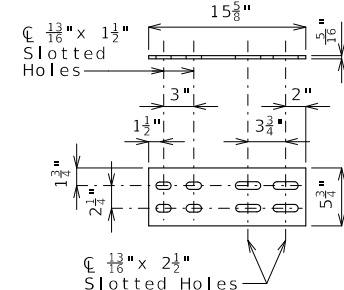


OPTIONAL SPLICE

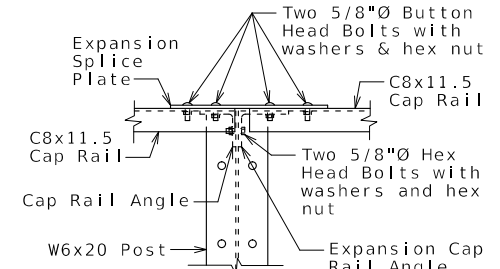
One shop or field splice per panel may be provided at any location.



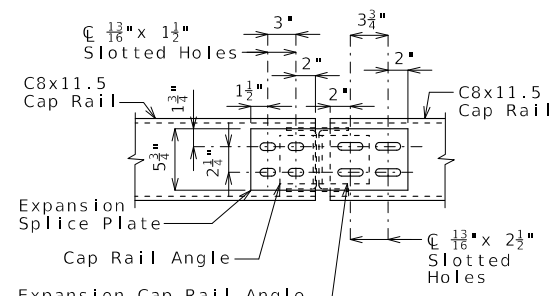
SPLICE PLATE



EXPANSION SPLICE PLATE

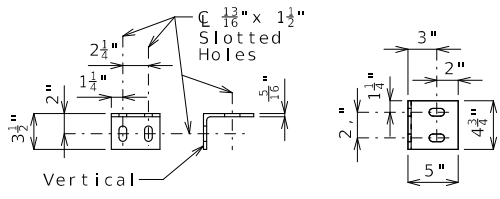


ELEVATION OF EXPANSION SPLICE



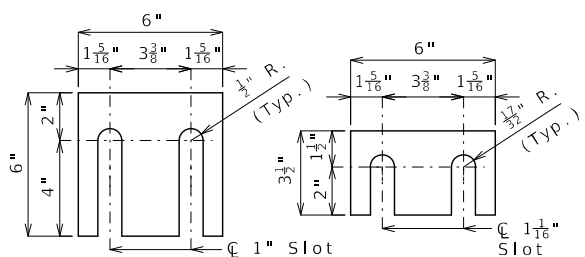
PLAN OF EXPANSION SPLICE

Expansion slots shall be on the same side of post as the expansion joint.



EXPANSION CAP RAIL ANGLE

L5 x 3 1/2 x 1/16

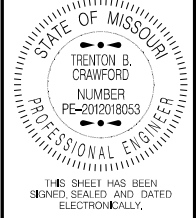


SHIM PLATES

Shim plates 6 x 3 x 1/16-inch may be used between the W6x20 post and 1/2-inch bent plate connection as required for horizontal alignment.

Shim plates may vary in thickness from 1/16 inch to the thickness required, and may be used in multiples.

Shim plates shall be galvanized after fabrication.



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11/19/2024

ROUTE M STATE MO
DISTRICT BR SHEET NO. 6

COUNTY SCOTT

JOB NO. J9S3813
CONTRACT ID.

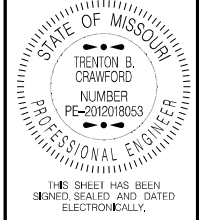
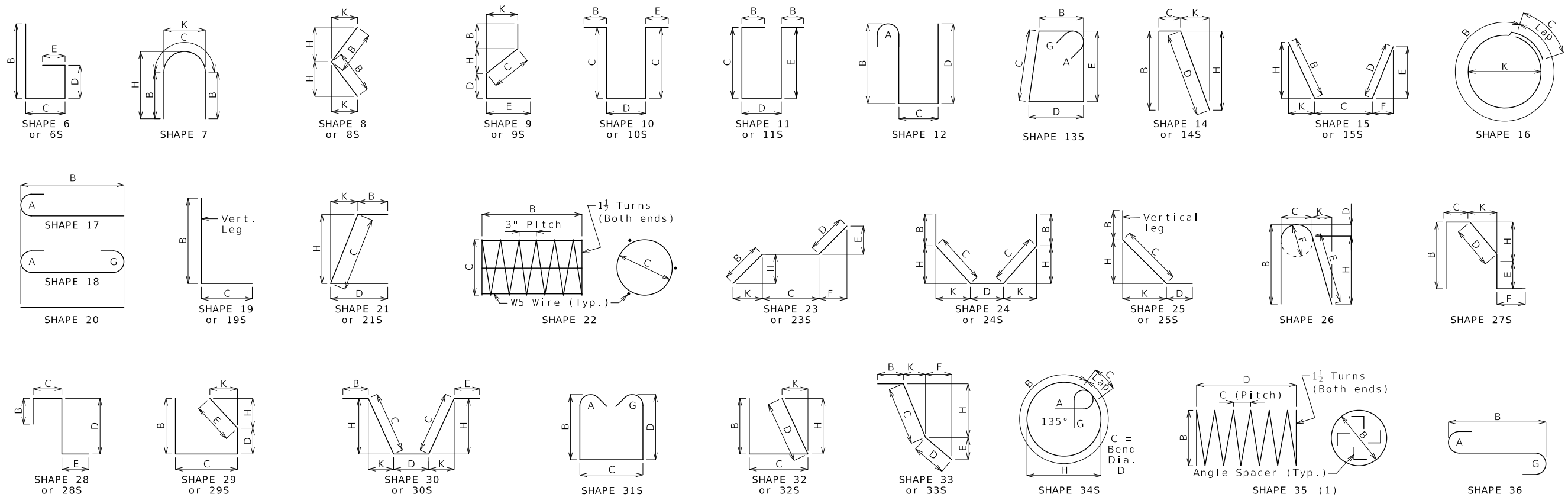
PROJECT NO.

BRIDGE NO. A08442

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



DATE PREPARED
11/19/2024

ROUTE MO
DISTRICT BR SHEET NO. 7

COUNTY SCOTT
JOB NO. J9S3813
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A08442

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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 3/8"	
#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 5/8"	
#18	1	24"	41 1/2"	36 1/4"	28 1/2"	

90°

180°

Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°		
#4	2	2"	4 1/2"	4 1/2"	5"	2 5/8"	3"
	3	3"	5"	5 1/4"	6"	3"	4"
#5	2	2 1/2"	5 3/4"	5 3/4"	5 3/4"	3 3/8"	3 3/4"
	3	3 3/4"	6 1/4"	6 1/2"	7"	3 5/8"	5"
#6	1	4 1/2"	12"	7 3/4"	8 1/4"	4 5/8"	6"

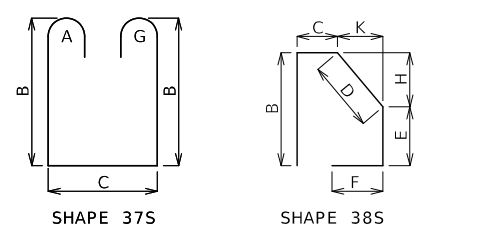
90°

135°

180°

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



BENDING DIAGRAMS

All dimensions are out to out. (1) Shall be a deformed or plain spiral bar or wire.

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

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.

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

Reinforcing Steel Totals (Pounds)

Size	Substructure		Superstructure			Entire Bridge	
	Plain	Epoxy	Slab	Barrier	Slip Form	Plain	Epoxy
W5	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	245	0	0	0	245
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
By Type	0	0	245	0	0	0	245

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

