

DESIGN DESIGNATION
A.A.D.T. - 2022 = 2,022
A.A.D.T. - 2042 = 3,378
T = 9%
V = 55 M.P.H.
D = 50%/50%
FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO RIGHT OF WAY WILL BE ACQUIRED WITH THIS PROJECT.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY



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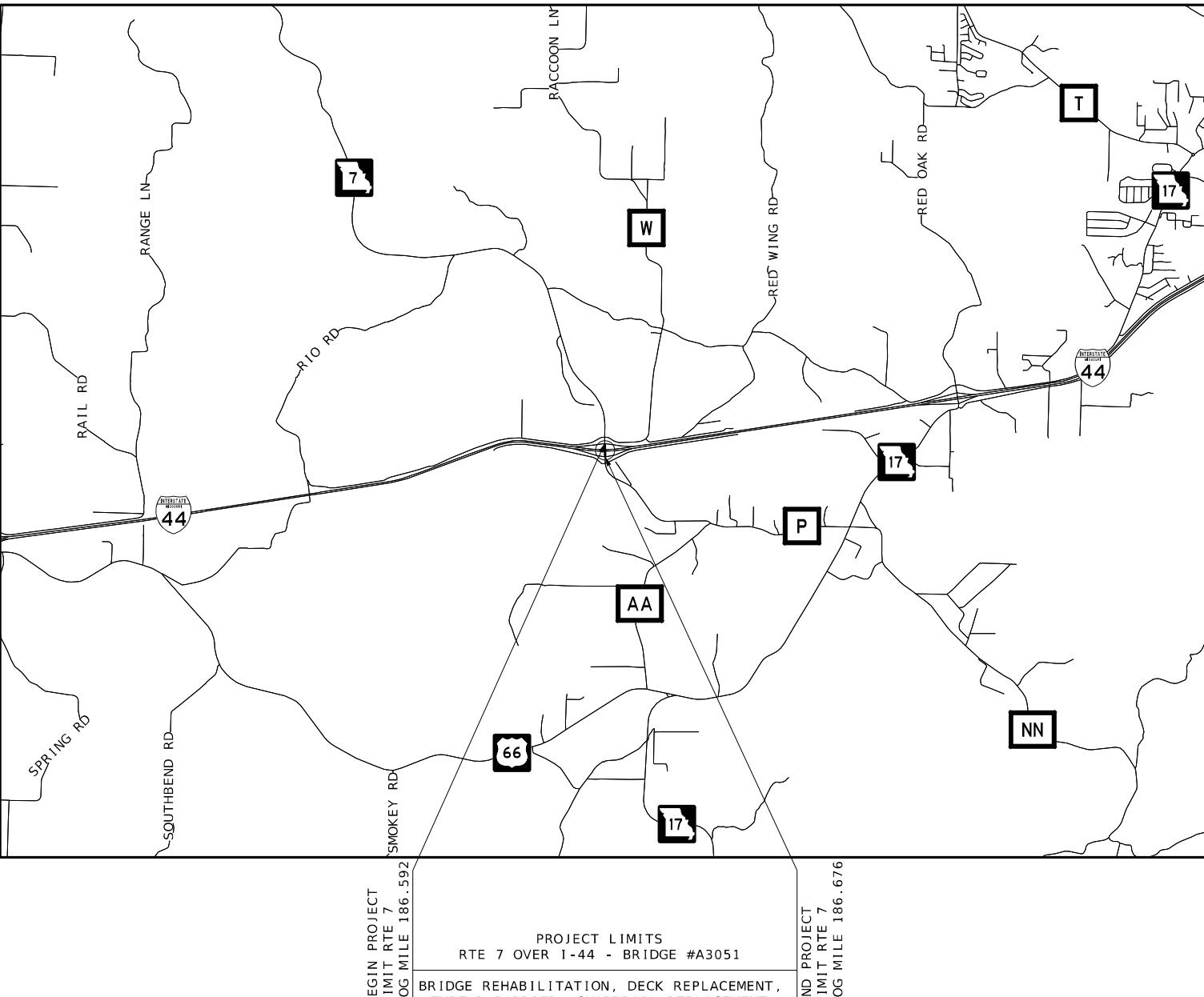
CONVENTIONAL SYMBOLS (USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

PULASKI COUNTY

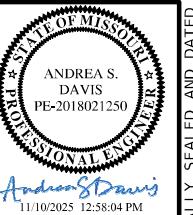
SECTION 12, T35N, R13W



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
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A3051-----	1-15



11/10/2025 12:58:04 PM
Andrea S. Davis - Civil
MO PE-2018021250
DATE PREPARED

11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 1

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

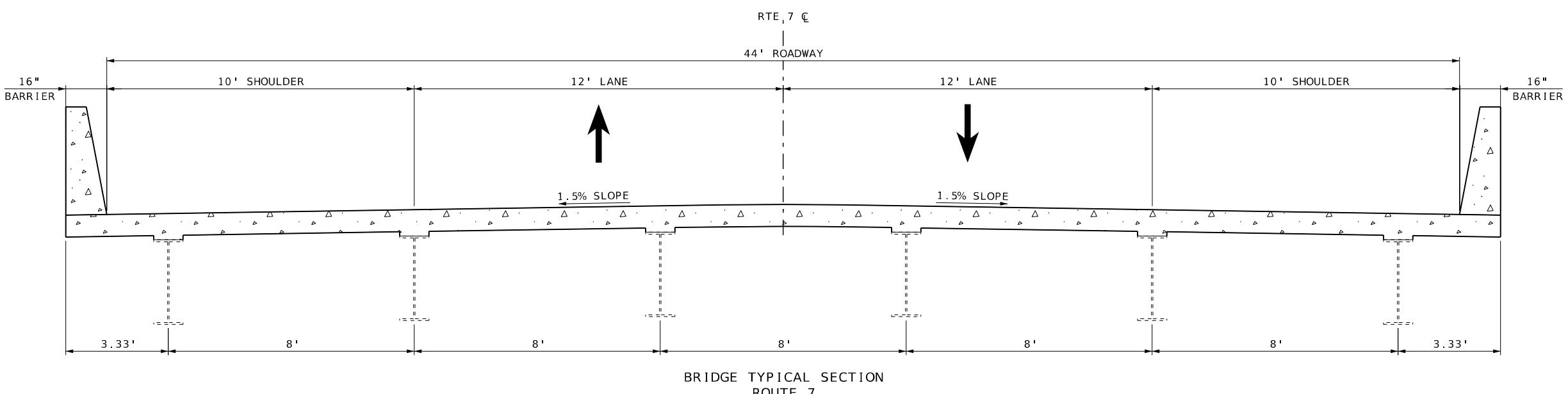
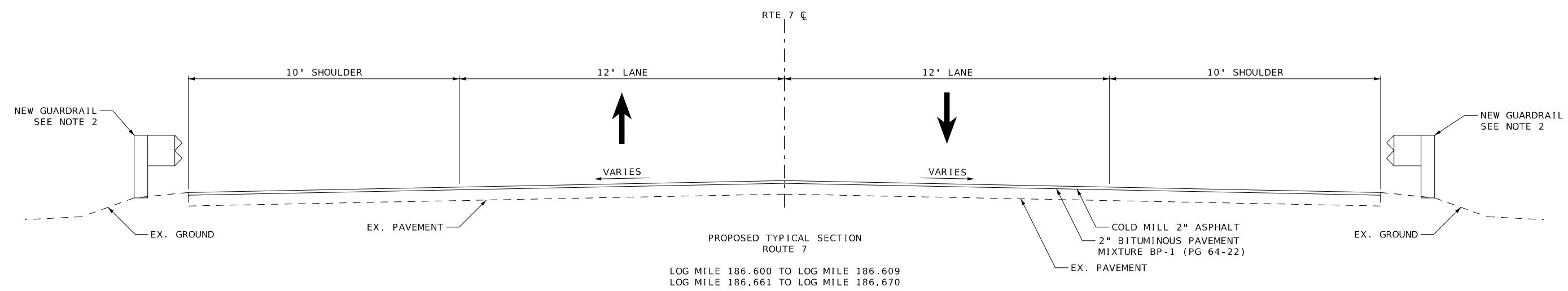
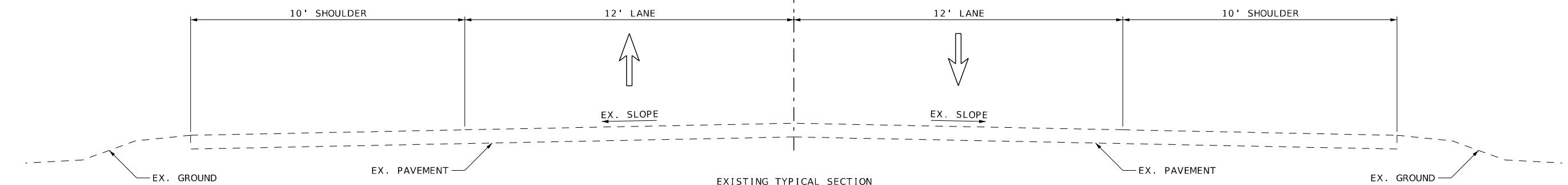
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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



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APPLICATION RATES:
BP-1 (PG64-22): 1.948 TON/CUYD COMPACTED MIXTURE
TACK COAT: 0.10 GAL/SQYD

PAVEMENT HISTORY:
CONSTRUCTED: 1931
IMPROVEMENT: 1977 (WITH BRIDGE CONSTRUCTION)
1" OVERLAY: 2012

NOT TO SCALE

NOTES:
1) ALL LOG MILES ARE DETERMINED FROM
THE SOUTH DIRECTION OF RTE 7
2) SEE PLAN SHEET FOR GUARDRAIL LIMITS

BRIDGE LIMITS:
LOG MILE 186.613 TO LOG MILE 186.657 - RTE 7 S

BRIDGE APPROACH SLAB LIMITS:
LOG MILE 186.609 TO LOG MILE 186.613 - RTE 7 S
LOG MILE 186.657 TO LOG MILE 186.661 - RTE 7 S

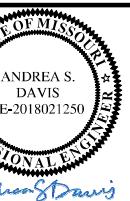
BRIDGE TYPICAL SECTION FOR INFORMATION ONLY
SEE BRIDGE SHEETS

TYPICAL SECTION
SHEET 1 OF 1



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11/10/2025
Andrea S. Davis
MO PE-2018021250

DATE PREPARED
11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 2

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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

DESCRIPTION	DATE

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MOBILIZATION		1 LUMP SUM
CONTRACTOR FURNISHED SURVEYING AND STAKING	1 LUMP SUM	

REMOVAL OF IMPROVEMENTS

PLAN SHEET NO.	LOG MILE	LOG MILE	LOC.	LF	EA	DESCRIPTION
					EA	
4	186.590	186.613	LT	121		GUARDRAIL
4	186.590	186.613	RT	121		GUARDRAIL
4	186.610		LT		1	ASPHALT BASIN
4	186.610		RT		1	ASPHALT BASIN
4	186.657	186.678	LT	115		GUARDRAIL
4	186.657	186.678	RT	115		GUARDRAIL
4	186.661		LT		1	ASPHALT BASIN
4	186.661		RT		1	ASPHALT BASIN
PAY TOTAL		1 LUMP SUM				

GUARDRAIL

PLAN SHEET NO.	LOG MILE	LOG MILE	LOC.	ROADWAY	MGS GUARDRAIL LF	MGS BRIDGE APPROACH TRANSITION SECTION (REGULAR/NO CURB) EA	TYPE A CRASHWORTHY END TERMINAL (MASH) EA	SHAPING SLOPES CLASS III 100FT	REMARKS
4	186.592	186.611	LT	RTE 7	12.5		1	1	1.2
4	186.592	186.611	RT	RTE 7	12.5		1	1	1.2
4	186.659	186.676	LT	RTE 7	12.5		1	1	1.1
4	186.659	186.676	RT	RTE 7	12.5		1	1	1.1
SUBTOTAL		50.0			4		4	5	
PAY TOTAL		50			4		4	5	

NOTE: GUARDRAIL LENGTHS DO NOT INCLUDE LENGTHS FOR END, TERMINAL, ANCHOR, OR TRANSITION SECTIONS OR BULLNOSE

PAVEMENT

PLAN SHEET NO.	LOG MILE	LOG MILE	LOC.	ROADWAY	AREA SF	AREA SY	2" BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) (1.948 TONS/CY)	TACK COAT (0.10 GAL/SY)	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS) SY	REMARKS
4	186.600	186.609	BOTH	RTE 7	2200.0	244.4		26.4	24.4	244.4
4	186.661	186.670	BOTH	RTE 7	2200.0	244.4		26.4	24.4	244.4
SUBTOTAL					52.8		48.8		488.8	
PAY TOTAL					53.0		49		489	

PAVEMENT MARKING

PLAN SHEET NO.	LOG MILE	LOG MILE	LOC.	ROADWAY	4" WHITE CLASS I PAVEMENT MARKING PAINT, TYPE P BEADS LF	4" YELLOW CLASS I PAVEMENT MARKING PAINT, TYPE P BEADS LF	REMARKS
14	186.600	186.670	LT	RTE 7	363		SINGLE SOLID WHITE
14	186.600	186.670	RT	RTE 7	363		SINGLE SOLID WHITE
14	186.600	186.670	CENTER	RTE 7		726	DOUBLE SOLID YELLOW
SUBTOTAL					726		
PAY TOTAL					726		

PERMANENT EROSION CONTROL							
PLAN SHEET NO.	ROADWAY	LOG MILE	LOC.	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
4	RTE 7	186.610	LT	14	14	47	ASSUMED 3' W X 60' L X 2' D
4	RTE 7	186.610	RT	14	14	47	ASSUMED 3' W X 60' L X 2' D
4	RTE 7	186.612	LT	7	7	24	ASSUMED 3' W X 30' L X 2' D
4	RTE 7	186.612	RT	7	7	24	ASSUMED 3' W X 30' L X 2' D
4	RTE 7	186.658	LT	7	7	24	ASSUMED 3' W X 30' L X 2' D
4	RTE 7	186.658	RT	7	7	24	ASSUMED 3' W X 30' L X 2' D
4	RTE 7	186.660	LT	14	14	47	ASSUMED 3' W X 60' L X 2' D
4	RTE 7	186.660	RT	14	14	47	ASSUMED 3' W X 60' L X 2' D
SUBTOTAL				84	84	284	
PAY TOTAL				84	84	284	

TEMPORARY EROSION CONTROL							
PLAN SHEET NO.	ROADWAY	LOG MILE	LOC.	SILT FENCE LF	SEDIMENT REMOVAL CY	REMARKS	
13	RTE 7	186.588	186.614	LT	154	2	
13	RTE 7	186.588	186.614	RT	154	2	
13	RTE 7	186.656	186.680	LT	148	2	
13	RTE 7	186.656	186.680	RT	148	2	
SUBTOTAL				604	8		
PAY TOTAL				604	8		

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK, 1 CY PER 100 FT OF SILT FENCE

SEEDING & MULCHING						
PLAN SHEET NO.	LOG MILE	LOG MILE	ROADWAY	LOC.	SEEDING - COOL SEASON MIXTURES ACRE	MULCHING ACRE
4	186.592	186.613	RTE 7	LT	0.1	0.1
4	186.592	186.613	RTE 7	RT	0.1	0.1
4	186.657	186.676	RTE 7	LT	0.1	0.1
4	186.657	186.676	RTE 7	RT	0.1	0.1
SUBTOTAL				0.4	0.4	
SEEDING AND MULCHING - COOL SEASON GRASSES						1 LUMP SUM

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MODOT

HR GREEN, INC.
520 MARVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
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CORPORATE LICENSE #200206608
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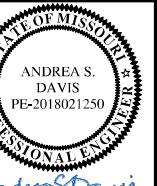
HRGreen

STATE OF MISSOURI
ANDREA S. DAVIS
PE-2018021250
DATE PREPARED
11/10/2025
ROUTE 7 STATE MO
DISTRICT CD SHEET NO. 3 COUNTY PULASKI
JOB NO. JCD0031 CONTRACT ID.
PROJECT NO. BRIDGE NO.
DATE
DESCRIPTION

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

SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025		
WARNING SIGNS																								
WO1-1L	48X48	16.00									TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24.00	1	12.00	49	GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
WO1-1R	48X48	16.00									TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24.00	1	12.00	48	EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
WO1-2L	48X48	16.00									CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
WO1-2R	48X48	16.00									CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40.00			1	ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
WO1-3L	48X48	16.00									REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32.00			26	END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
WO1-3R	48X48	16.00									REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
WO1-4L	48X48	16.00									REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
WO1-4R	48X48	16.00									REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
WO1-4bL	48X48	16.00									DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)	
WO1-4bR	48X48	16.00									DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122040		WORK ZONE CRASH CUSHION (NARROW)	
WO1-4cL	48X48	16.00									TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
WO1-4cR	48X48	16.00									TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6123001	1**	TRUCK MOUNTED ATTENUATOR (TMA)	
WO1-6	60X30	12.50									HORIZONTAL ARROW (SYMBOL)	R1-1	48X48	13.25						STOP	6161012	146	BUOYS (BOATS KEEP OUT)	
WO1-6a	72X36	18.00									HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)	
WO1-7	60X30	12.50									DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	48	TYPE 3 MOVEABLE BARRICADE	
WO1-7a	72X36	18.00									DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	64	DIRECTION INDICATOR BARRICADE	
WO1-8	18X24	3.00									CHEVRON (SYMBOL)	R2-1	36X48	12.00	4	48.00	4	48.00	4	SPEED LIMIT 60	6161040		FLASHING ARROW PANEL	
WO1-8a	30X36	7.50									CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
WO3-1	48X48	16.00									STOP AHEAD (SYMBOL)	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055	64	SEQUENTIAL FLASHING WARNING LIGHT	
WO3-2	48X48	16.00									YIELD AHEAD (SYMBOL)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER	
WO3-3	48X48	16.00									SIGNAL AHEAD (SYMBOL)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
WO3-4	48X48	16.00									BE PREPARED TO STOP	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
WO4-1L	48X48	16.00									MERGE (SYMBOL FROM LEFT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6161098A	10**	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO4-1R	48X48	16.00									MERGE (SYMBOL FROM RIGHT)	R4-1	36X48	12.00						DO NOT PASS	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
WO4-1aL	48X48	16.00	2	32.00							6B MERGE (LEFT)	R4-2	36X48	12.00						PASS WITH CARE	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM	
WO4-1aR	48X48	16.00	4	64.00	2	32.00					6A MERGE (RIGHT)	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)	6162002	8**	TEMPORARY LONG-TERM RUMBLE STRIPS	
WO5-1	48X48	16.00									ROAD/BRIDGE/RAMP NARROWS	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	
WO5-3	48X48	16.00									ONE LANE BRIDGE	R5-1	30X30	6.25						DO NOT ENTER	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
WO5-5	48X48	16.00									NARROW LANES	R5-1a	36X24	6.00						WRONG WAY	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION	
WO6-1	48X48	16.00									DIVIDED HIGHWAY (SYMBOL)	R6-1L	54X18	6.75						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6174000A		CONTRACTOR FURNISHED/RETAINED	
WO6-2	48X48	16.00									DIVIDED HIGHWAY END (SYMBOL)	R6-1R	54X18	6.75						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER	
WO6-3	48X48	16.00									TWO WAY TRAFFIC (SYMBOL)	R6-2L	24X30	5.00						ROAD CLOSED XX MILES AHEAD	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
WO7-3a	30X24	5.00									NEXT XX MILES (PLAQUE)	R6-2R	24X30	5.00						LOCAL TRAFFIC ONLY	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
WO8-1	48X48	16.00									BUMP	R9-9	24X12	2.00						ROAD CLOSED TO THRU TRAFFIC	6208064A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
WO8-2	48X48	16.00									DIP	R9-11L	24X18	3.00						STOP HERE ON RED (45^ ARROW)	9029400		TEMPORARY RAISED PAVEMENT MARKER	
WO8-3	48X48	16.00									PAVEMENT ENDS	R9-11R	24X18	3.00						ROAD CLOSED	9029401		TEMPORARY TRAFFIC SIGNALS	
WO8-4	48X48	16.00									SOFT SHOULDER	CONST-5	48X36	12.00	2	24.00								

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11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 4

COUNTY PULASKI

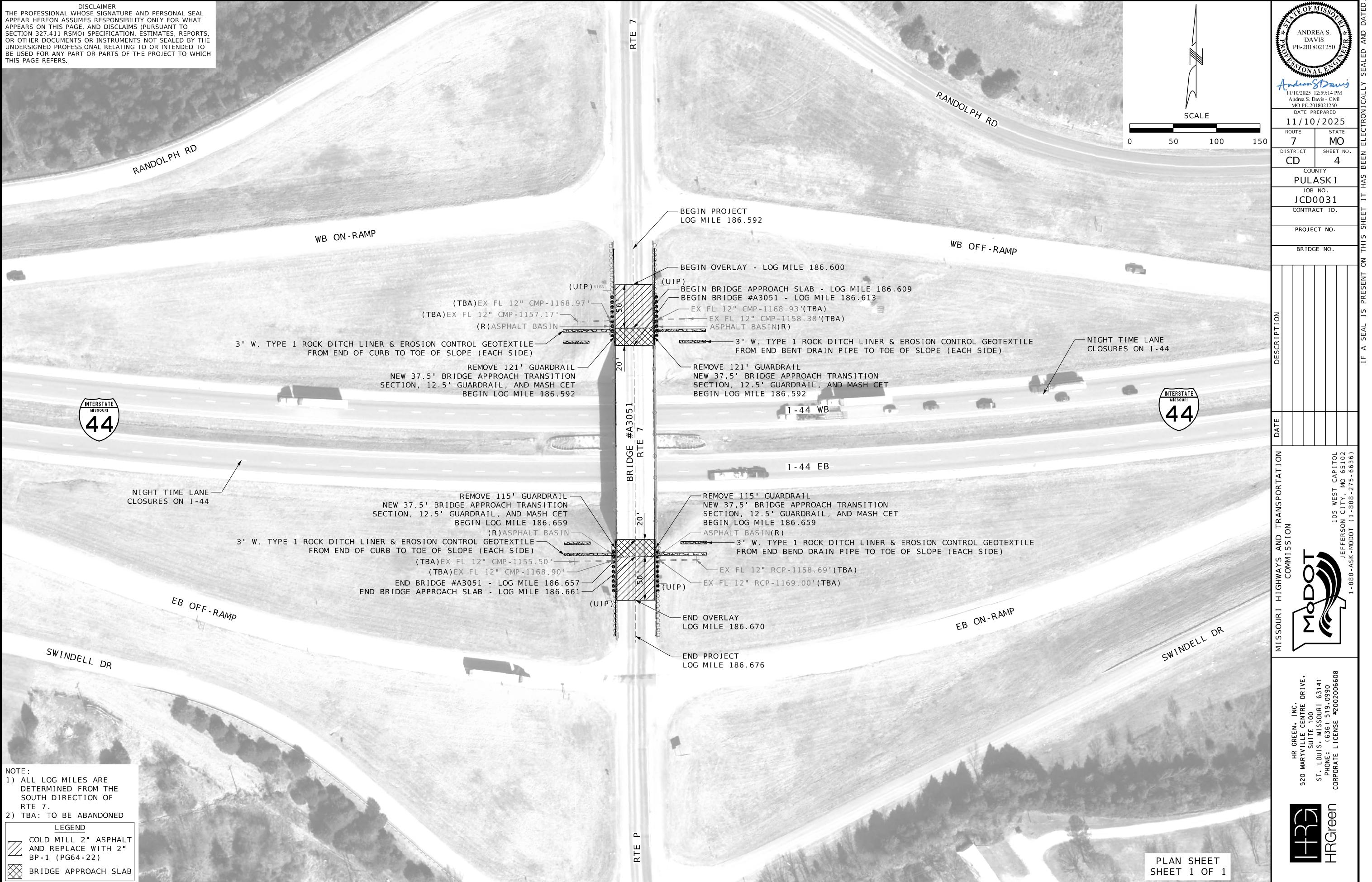
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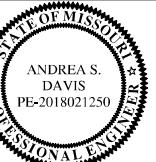
PROJECT NO.

BRIDGE NO.

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MO PE-2018021250

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11/10/2025

ROUTE STATE
7 MO

DISTRICT SHEET NO.
CD 5

COUNTY
PULASKI

JOB NO.
JCD0031

CONTRACT ID.

PROJECT NO.

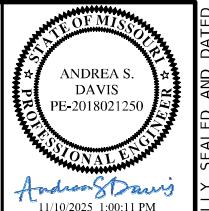
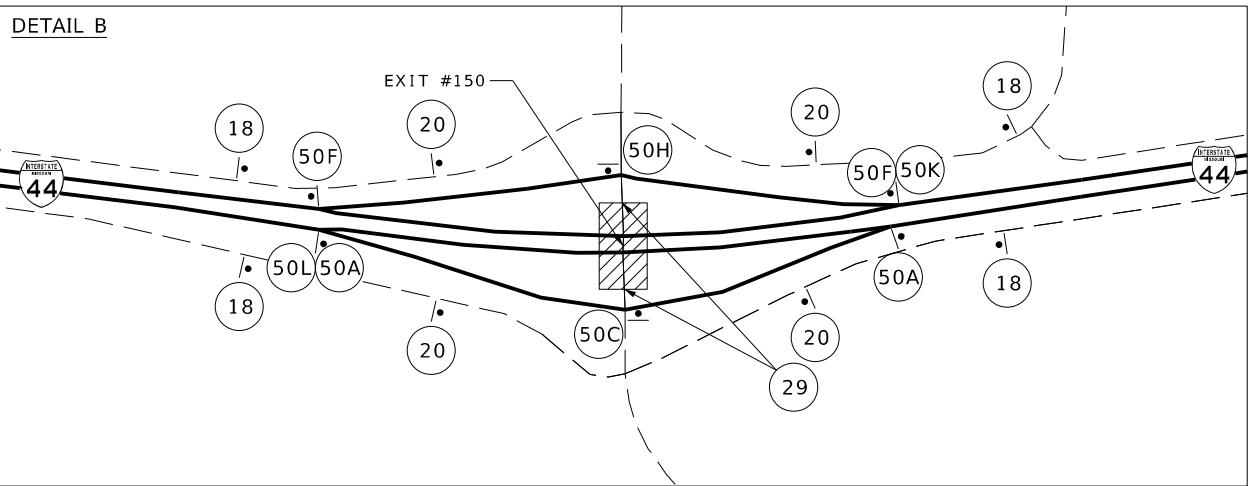
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NOTES:

- (1) ROUTE P DETOUR LENGTH: APPROX. 6 MILES
- (2) ROUTE 7 DETOUR LENGTH: APPROX. 10 MILES
- (3) SEE NEXT SHEET FOR SIGN DETAILS

LEGEND		
—	DETOUR ROUTE	
—	INTERSTATE	
—	NON-INTERSTATE	



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11/10/2025 1:00:11 PM

Andrea S. Davis - Civil

MO PE-2018021250

DATE PREPARED

11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 6

COUNTY PULASKI

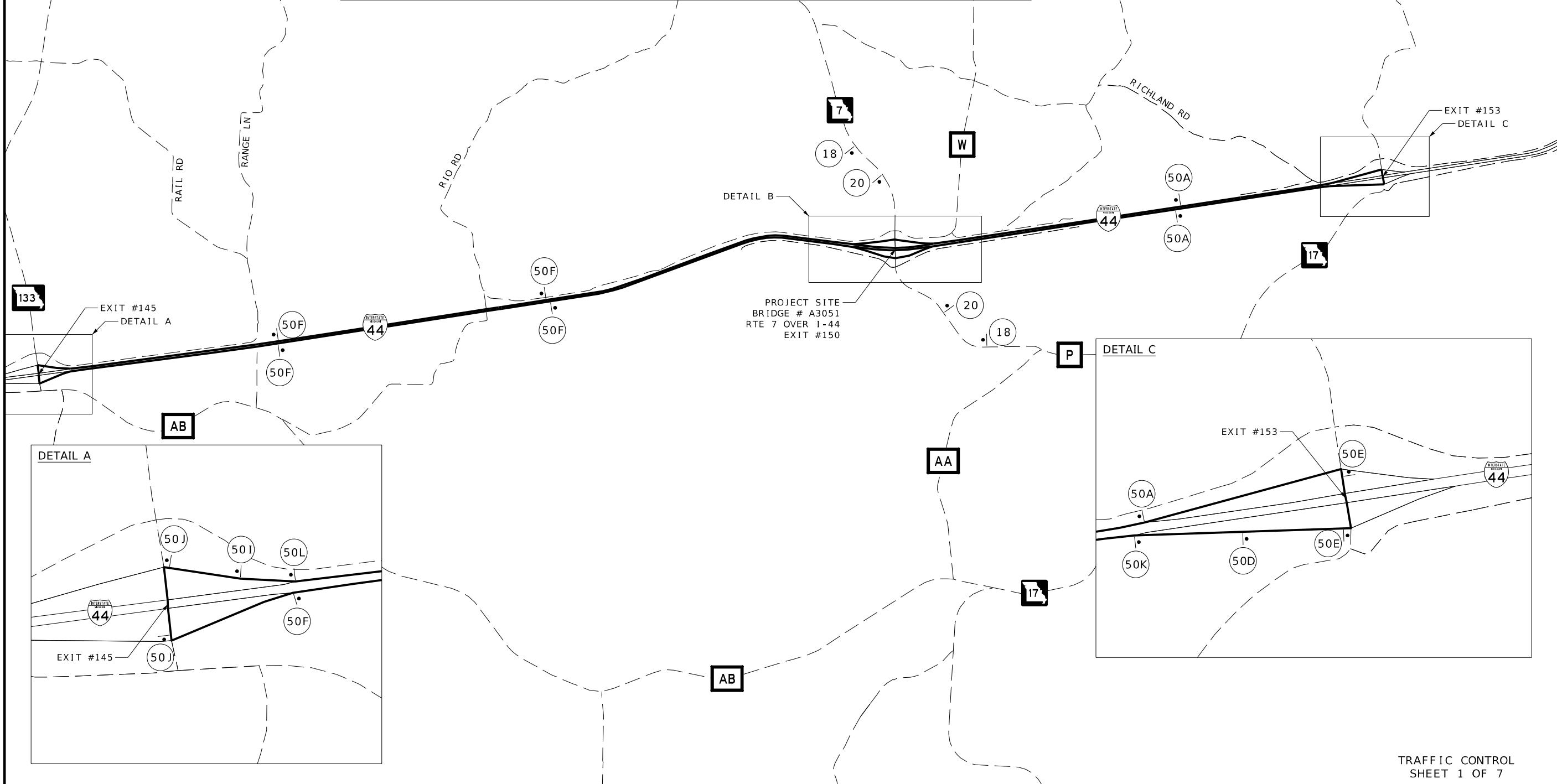
JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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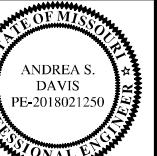


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MODOT 105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



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MO PE-2018021250

DATE PREPARED

11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 7

COUNTY PULASKI

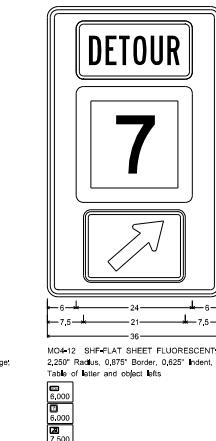
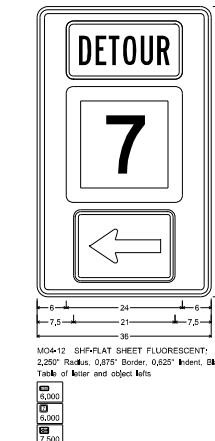
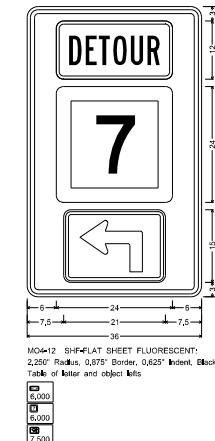
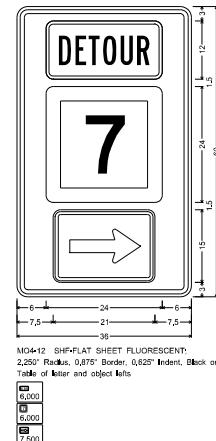
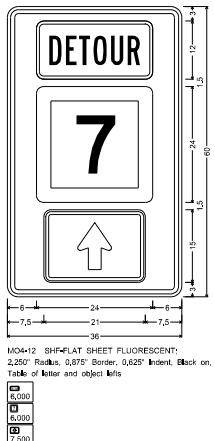
JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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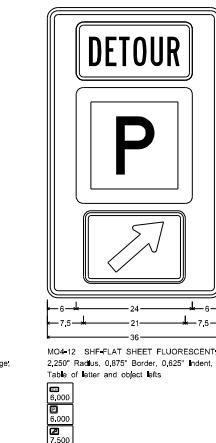
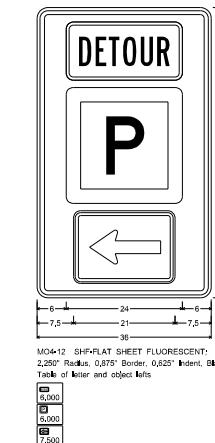
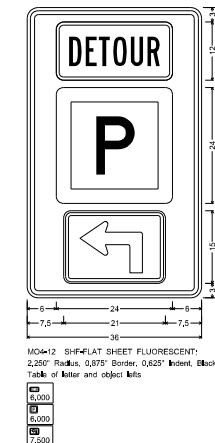
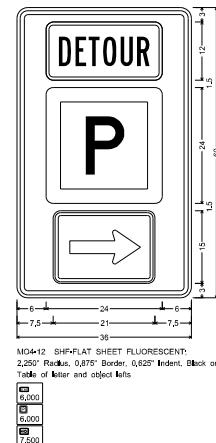
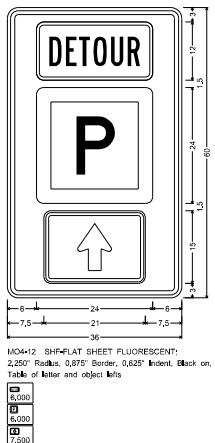
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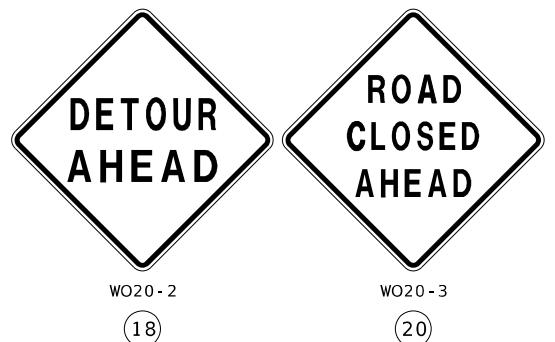
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50I

50J

50L

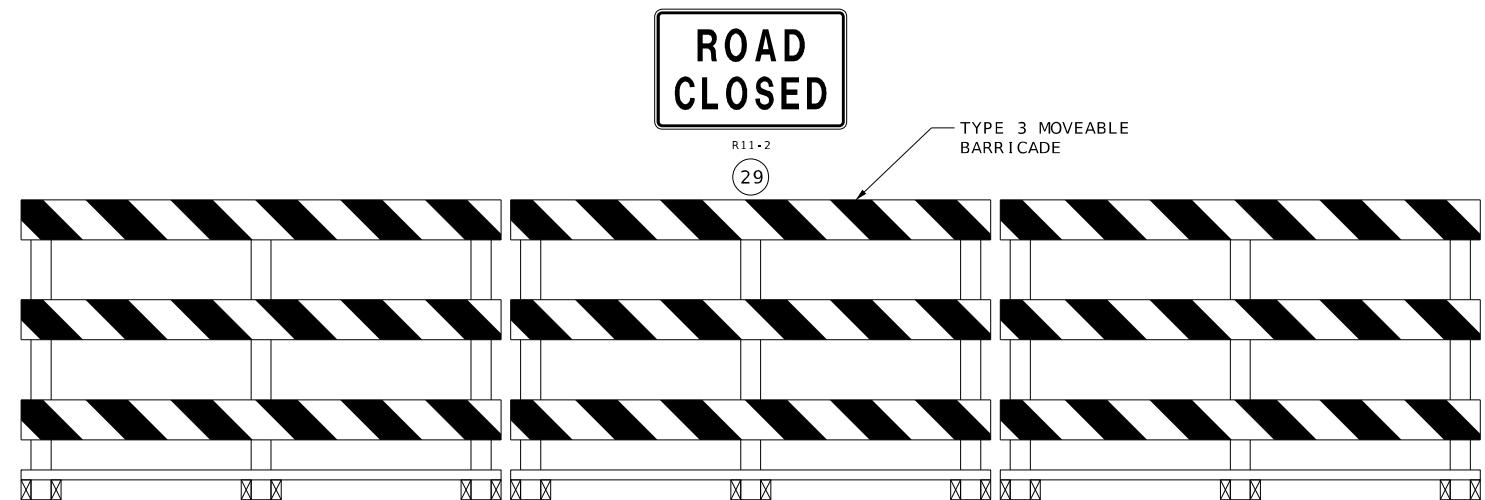


WO20-2

WO20-3

18

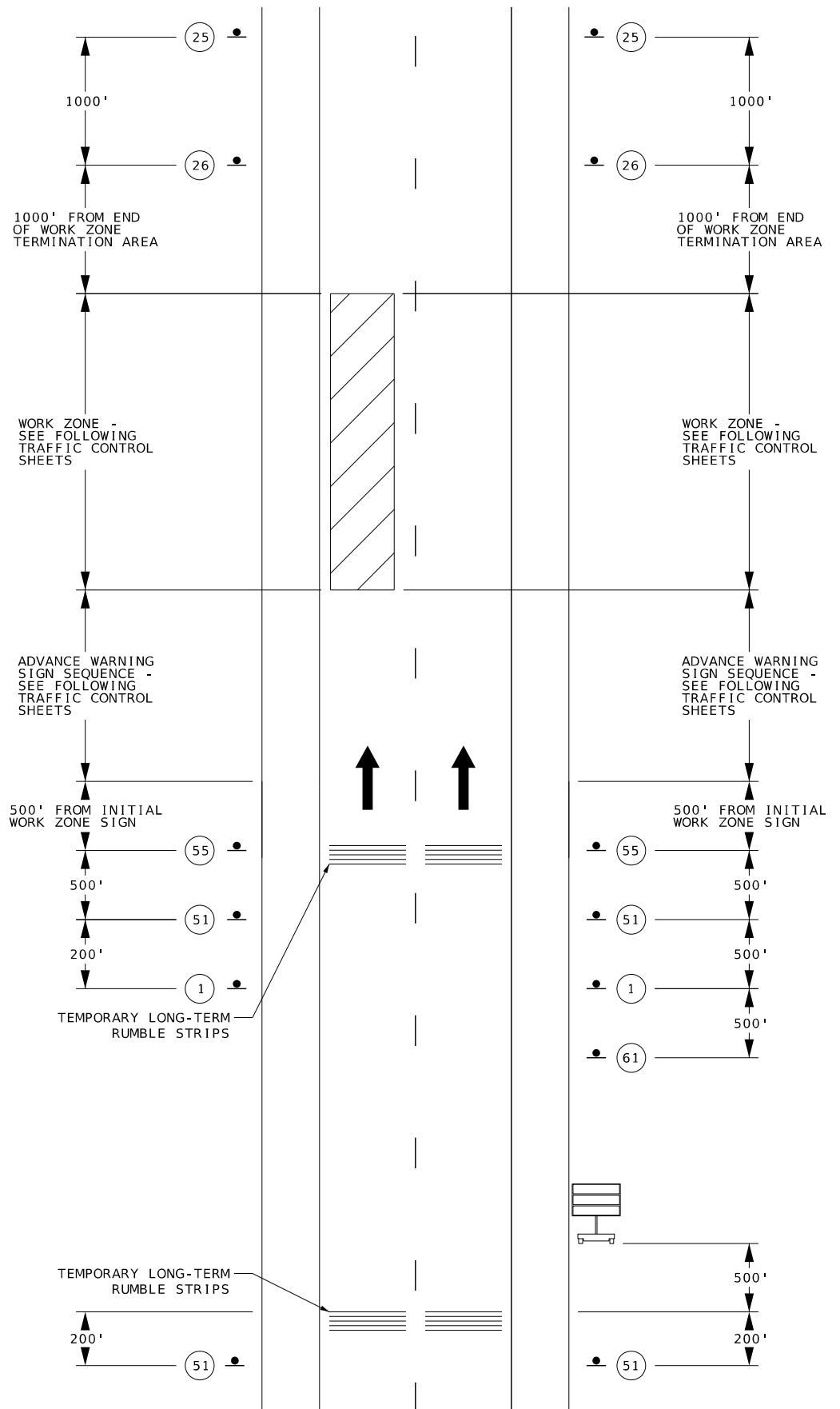
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TRAFFIC CONTROL
SHEET 2 OF 7

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BEGIN / END OF PROJECT SIGNING



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ▨ WORK ZONE
- ▨ CHANGEABLE MESSAGE BOARD

NOTES:

SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.

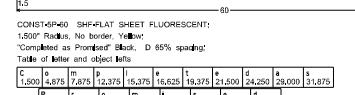
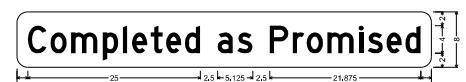
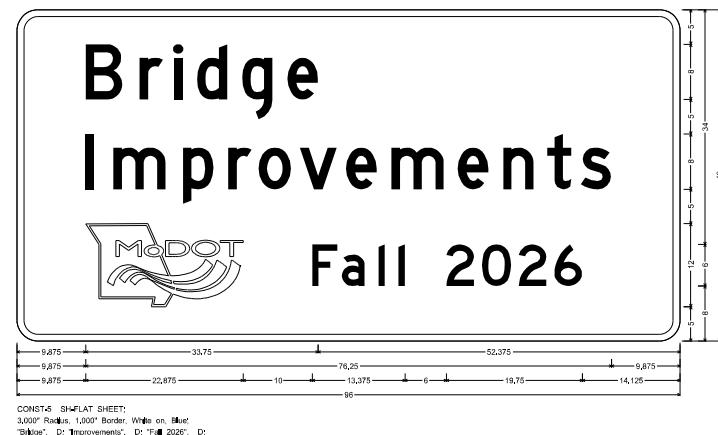
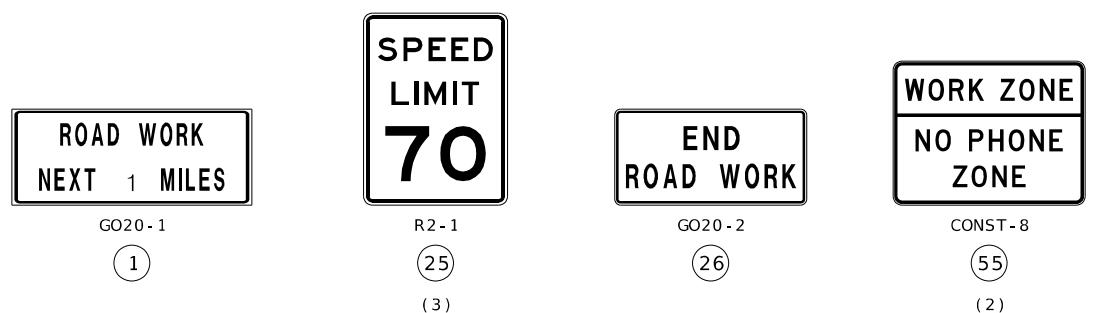
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS. SEE ADDITIONAL TRAFFIC CONTROL SHEETS FOR DETOUR SIGNAGE.

REVIEW EPG 616.6.87 TEMPORARY LONG TERM RUMBLE STRIPS FOR PLACEMENT GUIDELINES.

(1) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT LIMITS IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE THE GO20-1 ROAD WORK XX MILES SIGN.

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

(3) SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHOULD BE INSTALLED AT THE END OF THE REDUCED AREA PROVIDED NO OTHER REDUCTION IS IMPOSED WITHIN THE NEXT ONE-HALF MILE OR NO EXISTING SPEED LIMIT SIGN IS LOCATED WITHIN THE NEXT ONE-HALF MILE.



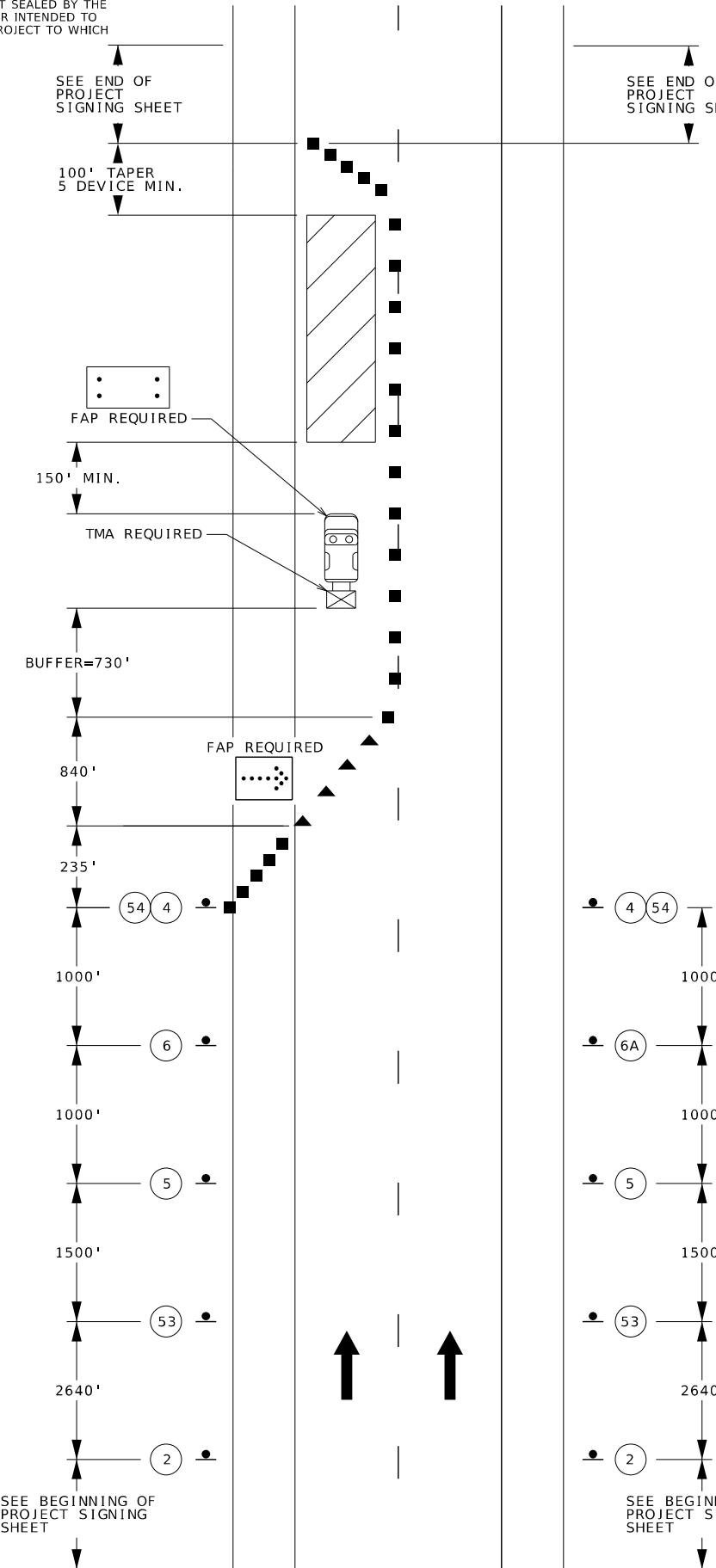
 ANDREA S. DAVIS PE-2018021250		11/10/2025 1:00:23 PM	
		ROUTE 7	STATE MO
		DISTRICT CD	SHEET NO. 8
		COUNTY PULASKI	
		JOB NO. JCD0031	CONTRACT ID.
		PROJECT NO.	
		BRIDGE NO.	
		DESCRIPTION	
		DATE	
		MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
		MODOT	105 WEST CAPITOL JEFFERSON CITY, MO 65102
		1-888-ASK-MODOT (1-888-275-6636)	

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STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS
- FLASHING ARROW PANEL (FAP)
- ▣ PROTECTED VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- ▨ WORK ZONE

NOTES:

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

REDUCED SPEED LIMIT SIGNING SHALL BE REMOVED, COVERED, OR TURNED FROM TRAFFIC WHEN CONDITIONS REQUIRING THE REDUCED SPEED NO LONGER EXIST.

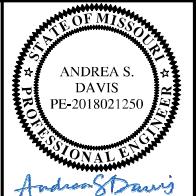
AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL FLASHING WARNING LIGHTS DURING NIGHTTIME OPERATIONS.

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

CHANNELIZER SPACING:

TAPERS: 60'
BUFFER/WORK AREAS: 120'



Andrea S. Davis
PE-2018021250

11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 9

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE	NOTES

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

WORK ZONE

GO20-5aP

54

SPEED LIMIT 60

R2-1

4

LEFT LANE CLOSED AHEAD

WO20-5

5

ROAD WORK AHEAD

WO20-1

2

LEFT LANE CLOSED

WO20-6a

6

MERGE

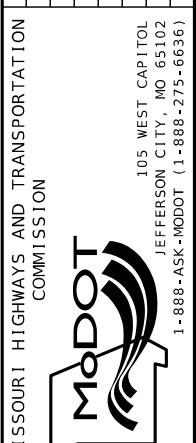
WO4-1aR

6A

MIN. \$250 FINE
SPEEDING
WHEN WORKERS
PRESENT

CONST-3A

53



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
HR GREEN, INC.
520 MARVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (314) 519-0990
CORPORATE LICENSE #200206608

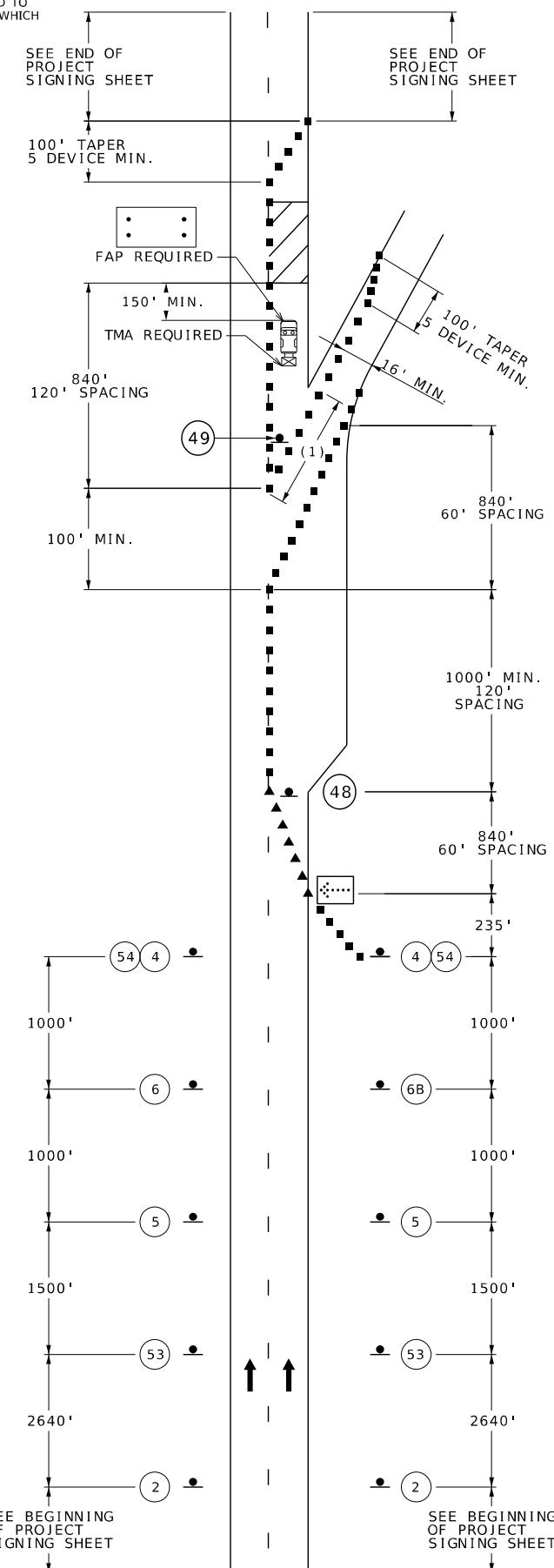


NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 7

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STATIONARY WORK IN VICINITY OF AN EXIT RAMP



NOT TO SCALE

NOTES:

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

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

REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL FLASHING
WARNING LIGHTS DURING NIGHTTIME OPERATIONS.

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

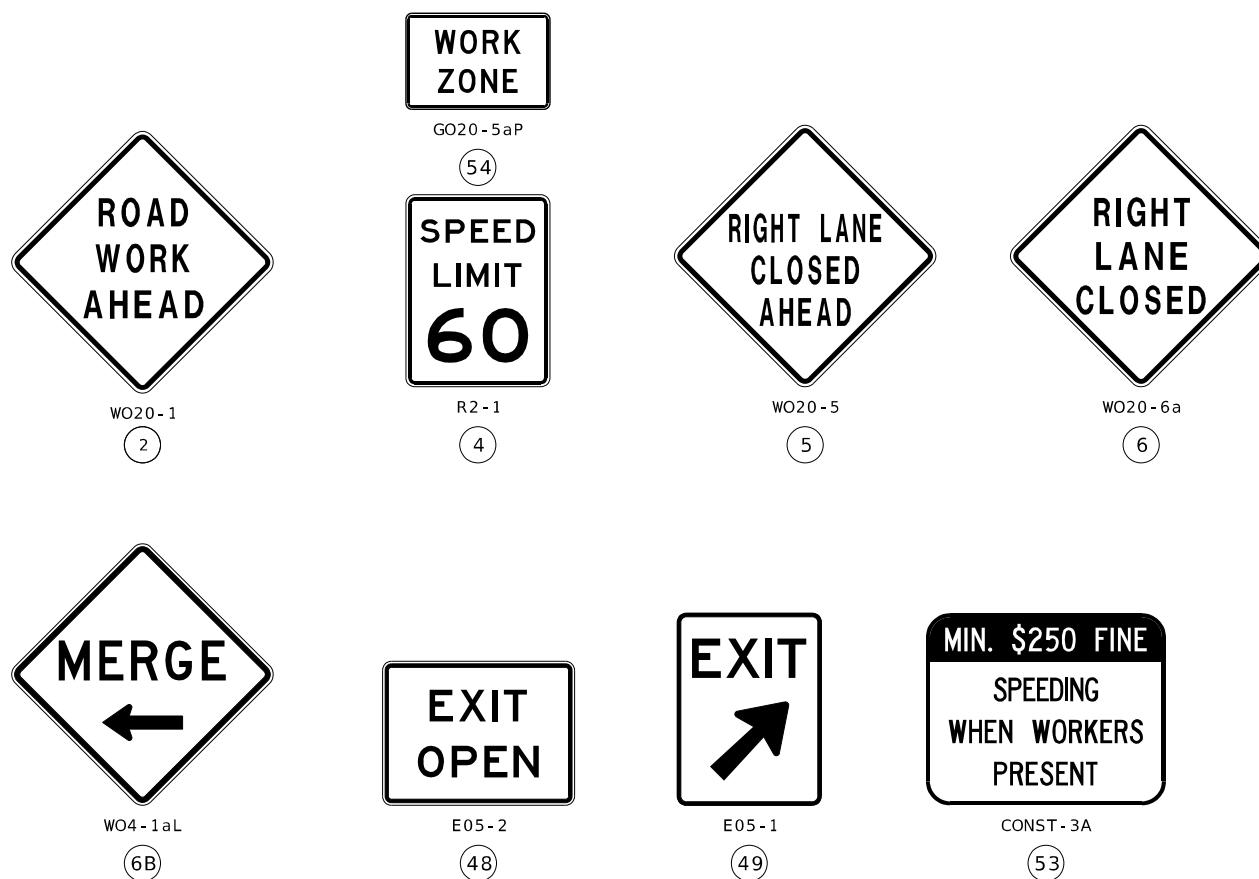
(1) FIVE DEVICE MINIMUM.

CHANNELIZER SPACING:

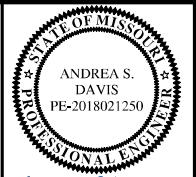
TAPERS: 60'
BUFFER/WORK AREAS: 120'

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE
WITH SEQUENTIAL FLASHING
WARNING LIGHTS
- ◆ FLASHING ARROW PANEL (FAP)
- ▣ PROTECTED VEHICLE WITH TRUCK
MOUNTED ATTENUATOR (TMA)
- ▨ WORK ZONE

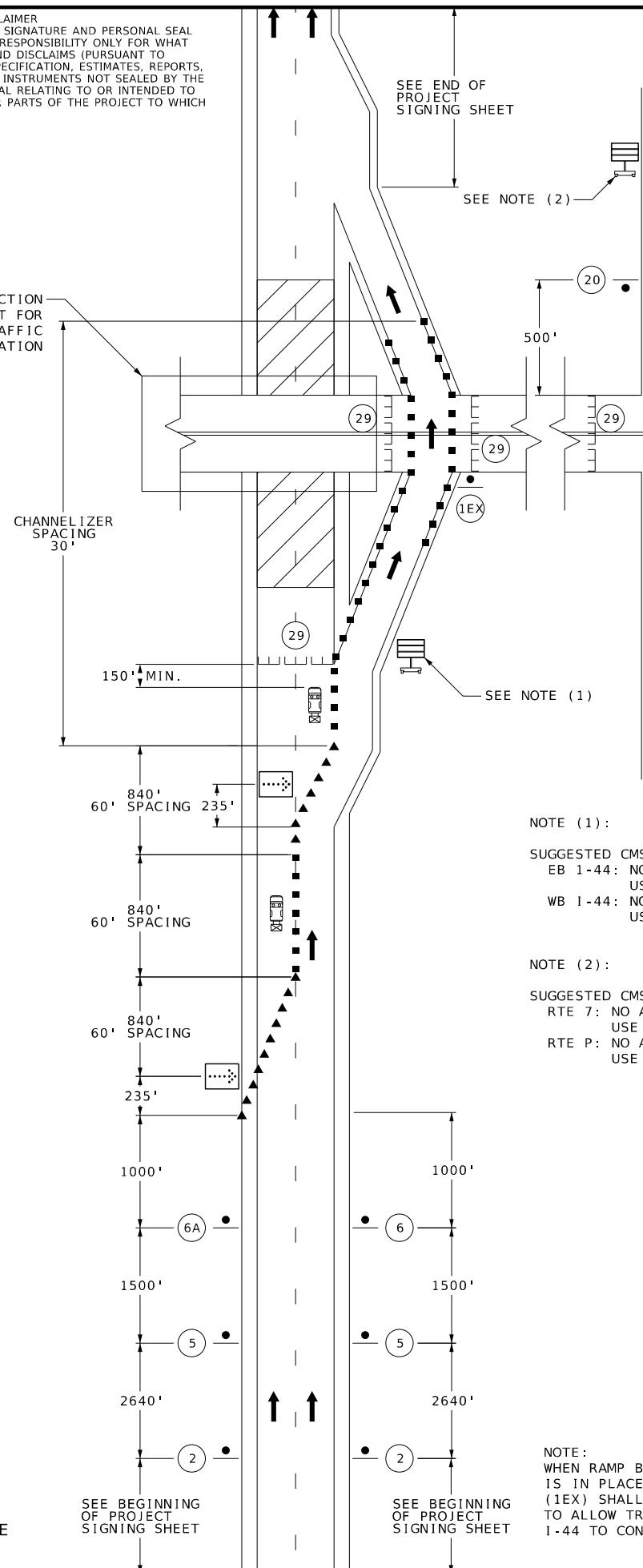


TRAFFIC CONTROL
SHEET 5 OF 7

 <i>Andrea S. Davis</i> 11/10/2025 1:00:20 PM Andrea S. Davis - Civil MO PE-2018021250		IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.	
		ROUTE 7	STATE MO
DISTRICT CD	SHEET NO. 10		
COUNTY PULASKI			
JOB NO. JCD0031			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
105 WEST CAPITOL JEFFERSON CITY, MO 65102			
1-888-ASK-MODOT (1-888-275-6636)			
			
HR GREEN, INC. 520 MARVILLE CENTRE DRIVE, SUITE 100 ST. LOUIS, MISSOURI 63141 PHONE: (314) 519-0990 CORPORATE LICENSE #2002006608			
			

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BRIDGE CONSTRUCTION
SEE DETOUR SHEET FOR
ADDITIONAL TRAFFIC
CONTROL INFORMATION



RAMP BY-PASS

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS
- FLASHING ARROW PANEL (FAP)
- ✖ PROTECTED VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- ▨ WORK ZONE
- CHANGEABLE MESSAGE BOARD

NOTES:

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

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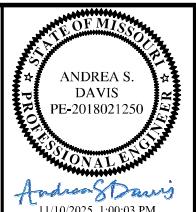
REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL FLASHING WARNING LIGHTS DURING NIGHTTIME OPERATIONS.

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

(1) FIVE DEVICE MINIMUM.

CHANNELIZER SPACING:

TAPERS: 60'
BUFFER/WORK AREAS: 120'



DATE PREPARED
11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 11

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

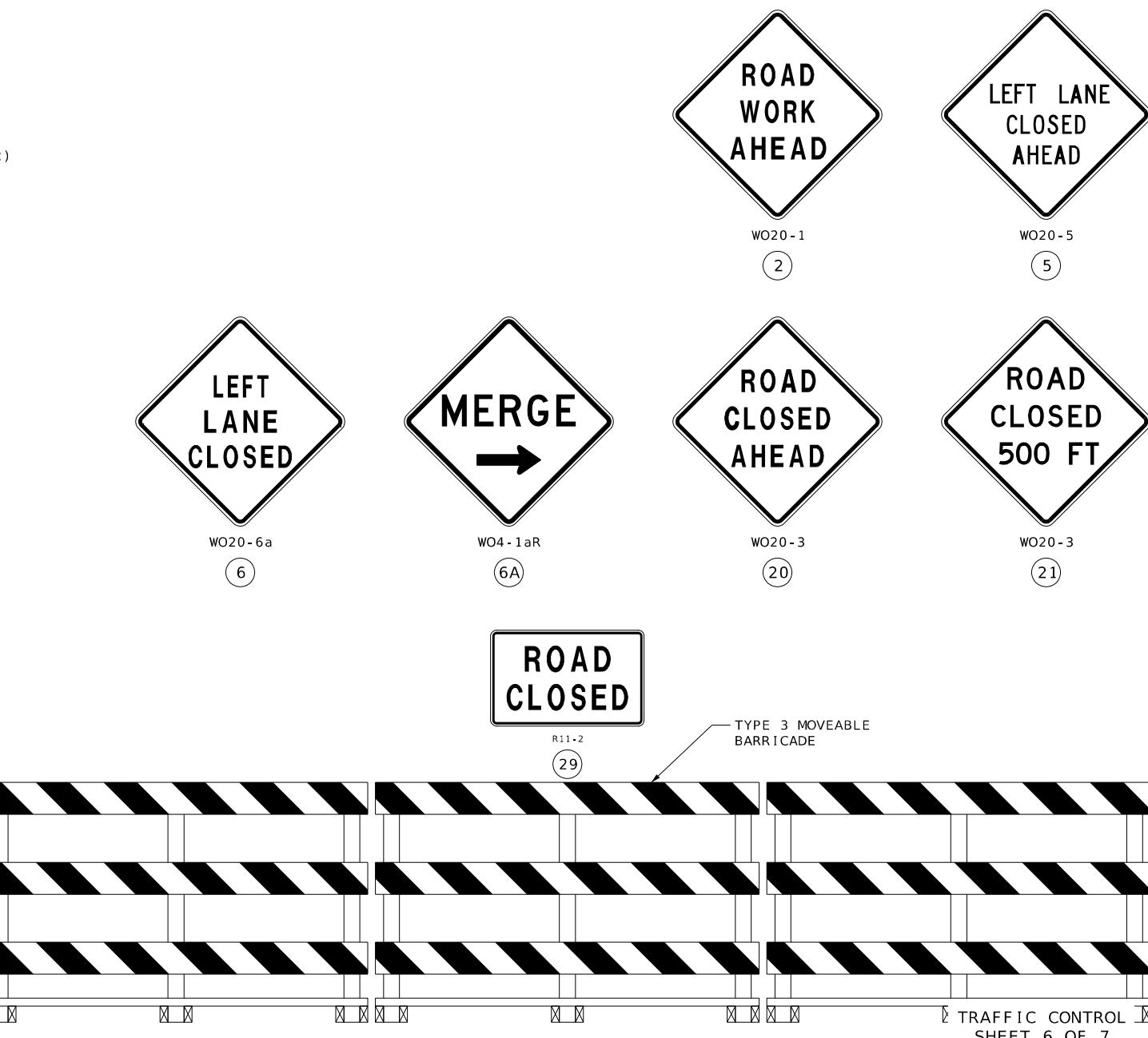
DESCRIPTION	DATE

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

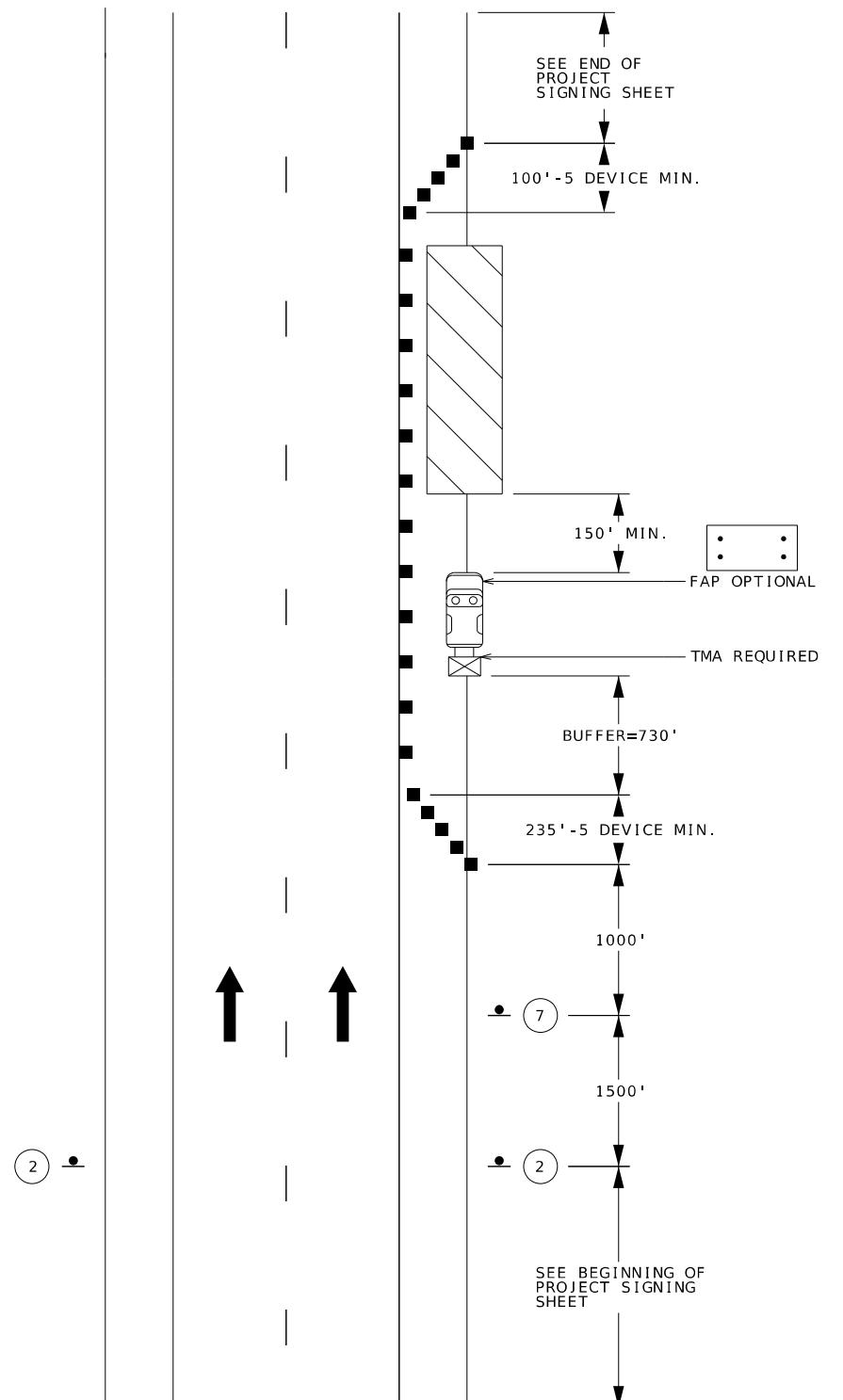
HR GREEN, INC.
520 MARVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (314) 519-0990
CORPORATE LICENSE #2002006608

HRGreen

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LONG-TERM SHOULDER CLOSURE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER (TRIM LINE)
- ▲ DIRECTIONAL INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHTS
- ◆ FLASHING ARROW PANEL (FAP)
- ▣ PROTECTED VEHICLE WITH TRUCK MOUNTED ATTENUATOR (TMA)
- ▨ WORK ZONE

NOTES:

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

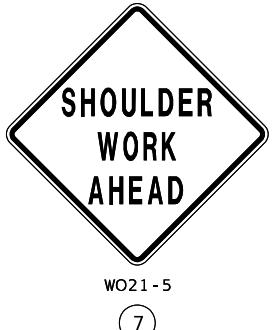
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REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

CHANNELIZER SPACING:

TAPERS: 60'
BUFFER/WORK AREAS: 120'



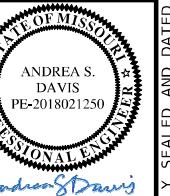
<p>ANDREA S. DAVIS PE-2018021250</p> <p><i>Andrea S. Davis</i> 11/10/2025 1:00:27 PM Andrea S. Davis - Civil MO PE-2018021250</p>		DATE PREPARED	
		11/10/2025	
ROUTE	STATE	7	MO
DISTRICT	SHEET NO.	CD	12
COUNTY		PULASKI	
JOB NO.		JCD0031	
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		DATE	DESCRIPTION
<p>MODOT 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>			
<p>HR GREEN, INC. 520 MARVILLE CENTRE DRIVE, SUITE 100 ST. LOUIS, MISSOURI 63141 PHONE: (636) 519-0990 CORPORATE LICENSE #2002006608</p> <p>HRGreen</p>			

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TRAFFIC CONTROL
SHEET 7 OF 7

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11/10/2025 12:59:58 PM

Andrea S. Davis - Civil

MO PE-2018021250

DATE PREPARED

11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 13

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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11/10/2025

HR GREEN, INC.

520 MARVILLE CENTRE DRIVE,

SUITE 100

ST. LOUIS, MISSOURI 63141

PHONE: (314) 519-0990

CORPORATE LICENSE #200206608

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MODOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

DATE

DESCRIPTION

11/10/2025

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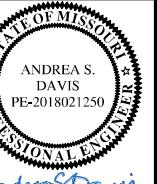
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MO PE-2018021250

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ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 14

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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





U.I.P., REDECK, AND RECONFIGURE EXISTING (33')(2.5'-76'-76'-2.5')(30') TO (35.5'-76'-76'-32.5') CONTINUOUS COMPOSITE WIDE FLANGE BEAM SPANS

Table Showing S2 Bar Lengths

Int. Bent No. 2	Int. Bent No. 3	Int. Bent No. 4	
Span 1	Span 2	Span 3	Span 4
26'-0"	18'-0"	22'-0"	22'-0"
18'-0"	22'-0"	18'-0"	26'-0"

Required Lap Length For Bar Splices **	
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

** Unless otherwise shown.

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Seismic Performance Category A

Design Loading:
H20-44 (1973) (Existing)
HS20-44 (New Construction)
35 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf (Min.)
Fatigue Stress - Case III

Design Unit Stresses:

Class B-1 Concrete (Barrier)	$f'c = 4,000$ psi
Class B-2 Concrete (End Bents & Superstructure, except Barrier)	$f'c = 4,000$ psi
Reinforcing Steel (ASTM A615 Grade 60)	$fy = 60,000$ psi
Structural Steel (ASTM A709 Grade 50)	$fy = 50,000$ psi

Fabricated Steel Connections:

Field connections shall be made with 3/4-inch diameter ASTM F3125 Grade A325 Type 1 bolts and 13/16-inch diameter holes, except as noted.

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 following locations shall be cleaned and sealed with Protective Coating - Concrete Bents and Piers (Epoxy):
- Top of beam, front face of back wall, and all exposed substructure concrete at the end bents
- Exposed concrete columns of all intermediate bents to an elevation 15 feet above existing ground.

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 plain bars and 30 diameters for deformed bars, unless otherwise noted.

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 otherwise noted.

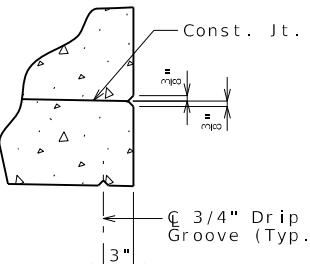
Outline of existing work is indicated by light dashed lines. Heavy lines indicate new work.

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

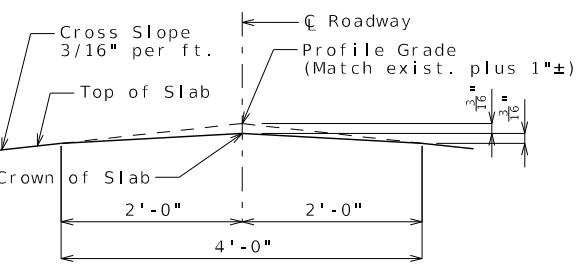
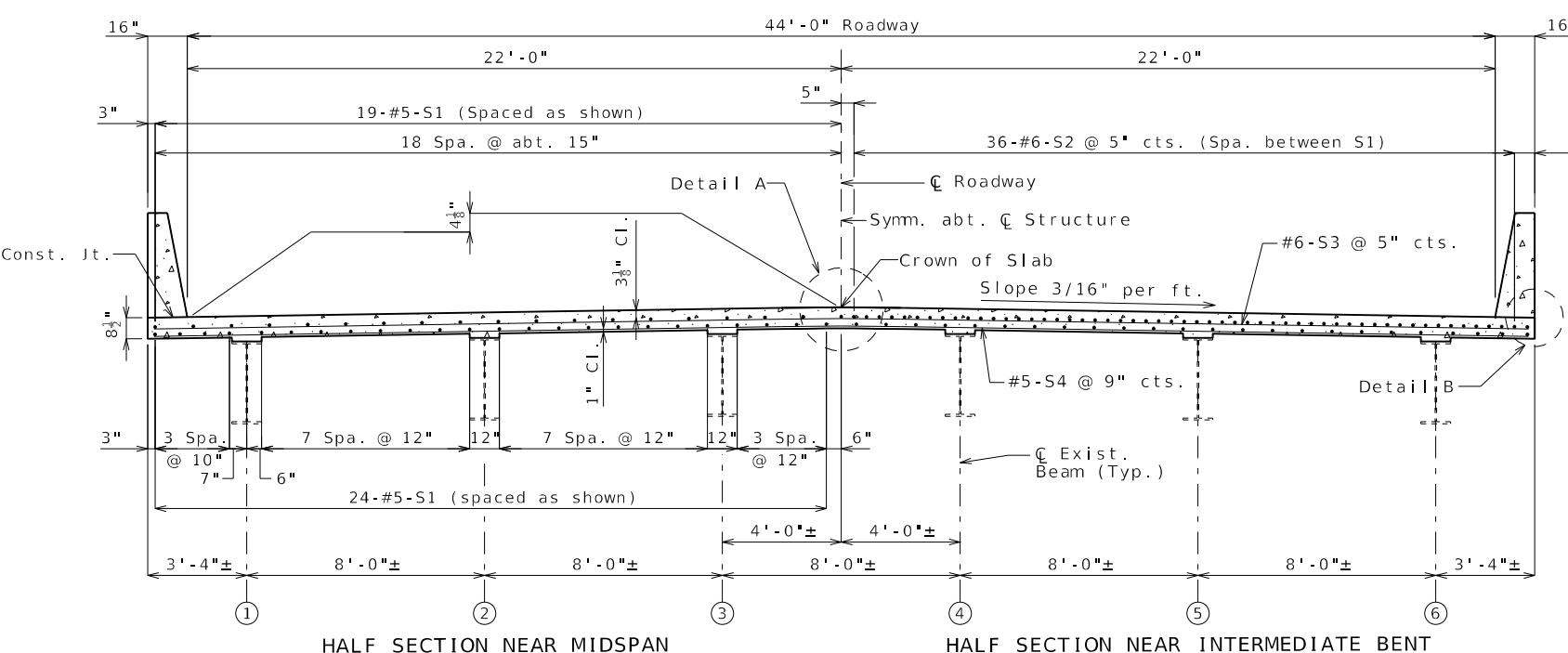
The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106.

Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.



DETAIL B



DETAIL A

Estimated Quantities for Slab on Steel

Item	Total
Class B-2 Concrete	cu. yard 311
Reinforcing Steel (Epoxy Coated)	pound 91,900

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. 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.

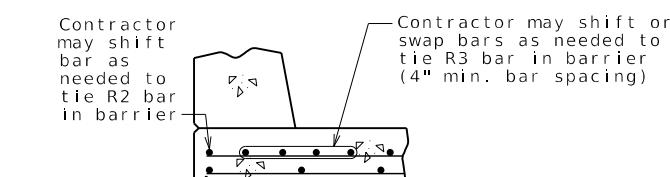
TYPICAL SECTION THRU SLAB

Estimated Quantities	
Item	Total
Removal of Miscellaneous ACM (Non-Friable)	sq. foot 21
Removal of Existing Bridge Deck	sq. foot 10,422
Bridge Approach Slab (Minor)	sq. yard 198
Slab on Steel	sq. yard 1,158
Type D Barrier	linear foot 487
Substructure Repair (Unformed)	sq. foot 20
Protective Coating - Concrete Bents and Piers (Epoxy)	tump sum 1
Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50	pound 58,880
Shear Connectors	each 2,574
Intermediate Field Coat (System G)	sq. foot 2,300
Finish Field Coat (System G)	sq. foot 400
Non-Destructive Testing	linear foot 160
Reconfigure Existing Structural Steel	tump sum 1
Temporary Falsework	tump sum 1
Vertical Drain at End Bents	each 2
Laminated Neoprene Bearing Pad Assembly	each 12
Open Cell Foam Joint Seal	linear foot 88

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

All reinforcement in the concrete diaphragm and shear blocks at the end bents is included in the Estimated Quantities for Slab on Steel.

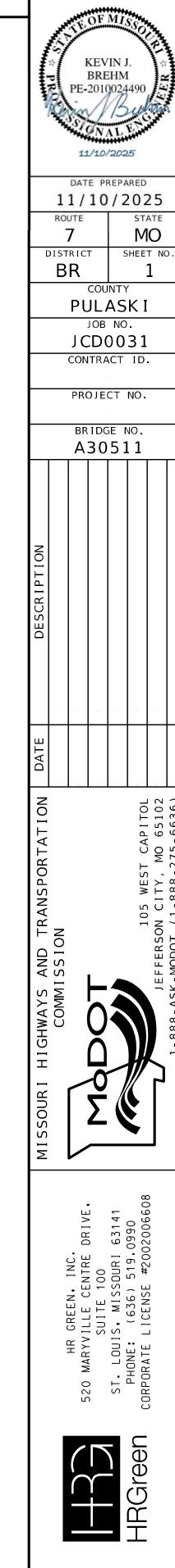
All concrete in the concrete diaphragm and shear blocks at the end bents is included in the Estimated Quantities for Slab on Steel.

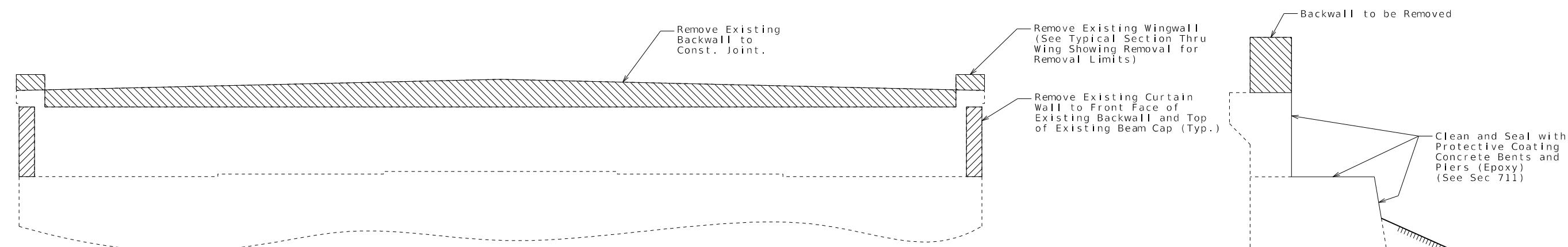


OPTIONAL SHIFTING TOP BARS AT BARRIER

REPAIRS TO BRIDGE: ROUTE 7 OVER ROUTE I-44

ROUTE 7 FROM ROUTE W TO ROUTE P
ABOUT 0.1 MILES SOUTH OF ROUTE W
BEGINNING STATION 471+21.43 ± (MATCH EXISTING)





DETAILS OF CONCRETE REMOVAL AT END BENTS

The cost of concrete removal as shown will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck, Vertical backwall, curtain wall and wingwall reinforcement to be cut off one inch below concrete removal surface and the resulting holes shall be filled with a qualified special mortar.

A smooth, level surface shall be provided at Bents No. 1 & 5 removal lines.

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.

Slab shall be poured upgrade from end to end at a minimum rate of 47 cubic yards per hour.

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

Haunching:

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

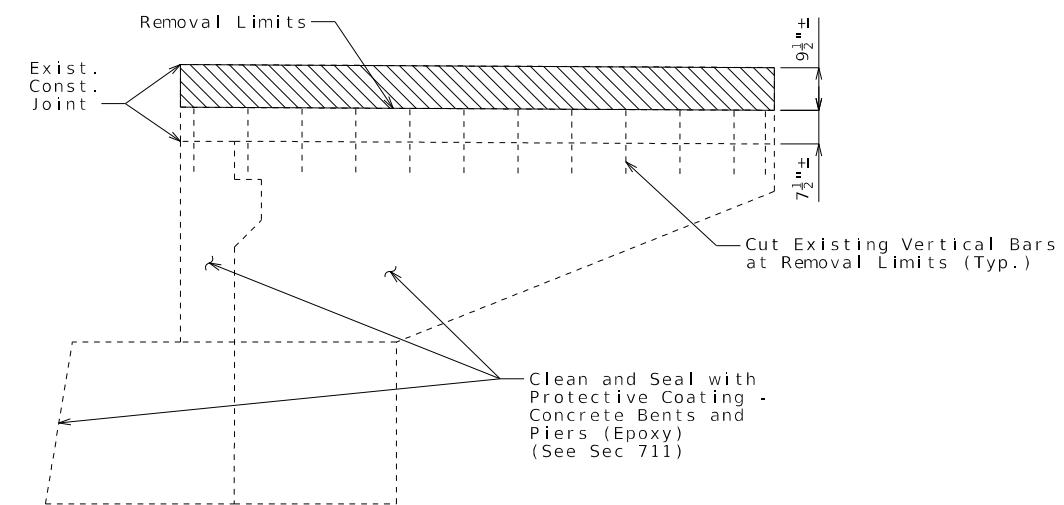
Coating New Steel (Replacement Section of Existing Beams):
Protective Coating: System G in accordance with Sec 1081.

Prime Coat (New Steel): The cost of the inorganic zinc prime coat will be considered completely covered by the contract unit price for the fabricated structural steel.

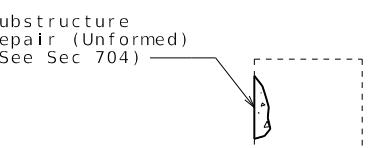
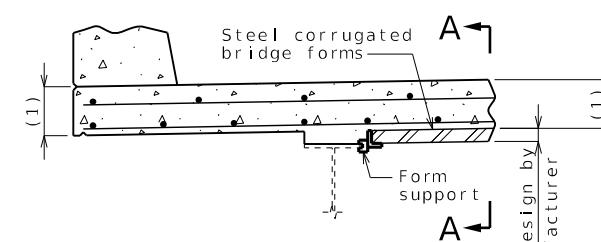
Field Coat(s): The color of the field coat(s) shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract price per sq. foot for Intermediate Field Coat (System G). The cost of the finish field coat will be considered completely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

At the option of the contractor, the intermediate field coat and finish field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

TYPICAL SECTION THRU END BENTS NO. 1 & 5 SHOWING PROTECTIVE COATING & CONCRETE REMOVAL

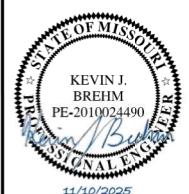
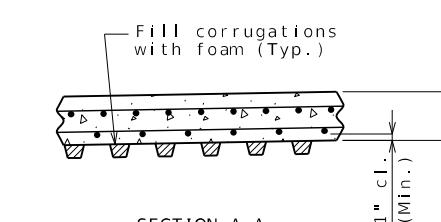


TYPICAL ELEVATION OF WING SHOWING REMOVAL AND PROTECTIVE COATING



TYPICAL SECTION THRU INT. BENT NO. 2 SHOWING SUBSTRUCTURE REPAIR

OPTIONAL STAY-IN-PLACE FORM DETAILS



DATE PREPARED
11/10/2025
ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 2
COUNTY PULASKI
JOB NO. JCD0031
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A30511

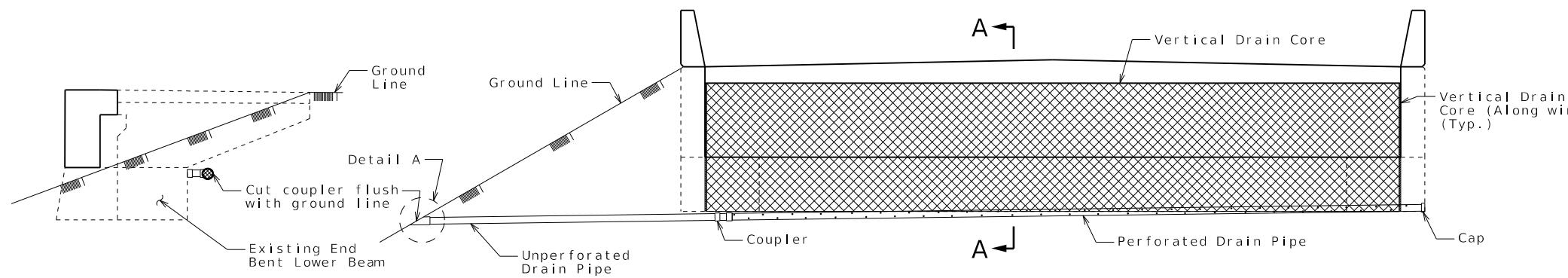
DESCRIPTION	DATE

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

HR GREEN, INC. 520 MARVILLE CENTRE DRIVE, SUITE 100 ST. LOUIS, MISSOURI 63141 PHONE: (314) 519-0990 CORPORATE LICENSE #2002006608

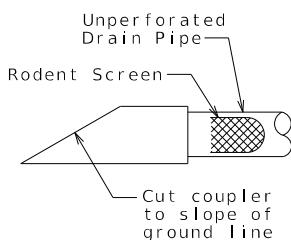


NOTES AND REHABILITATION DETAILS

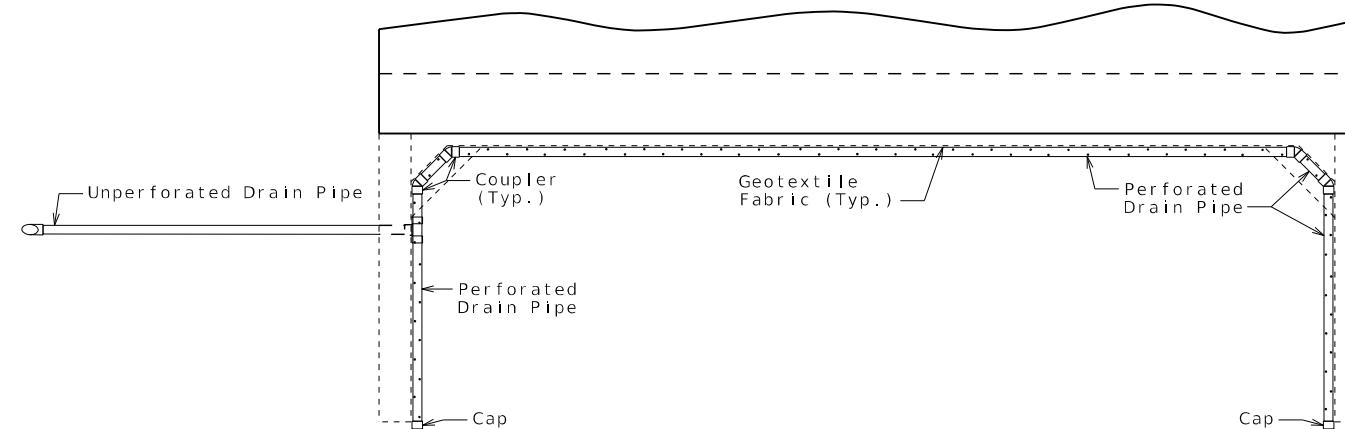


ELEVATION OF WING

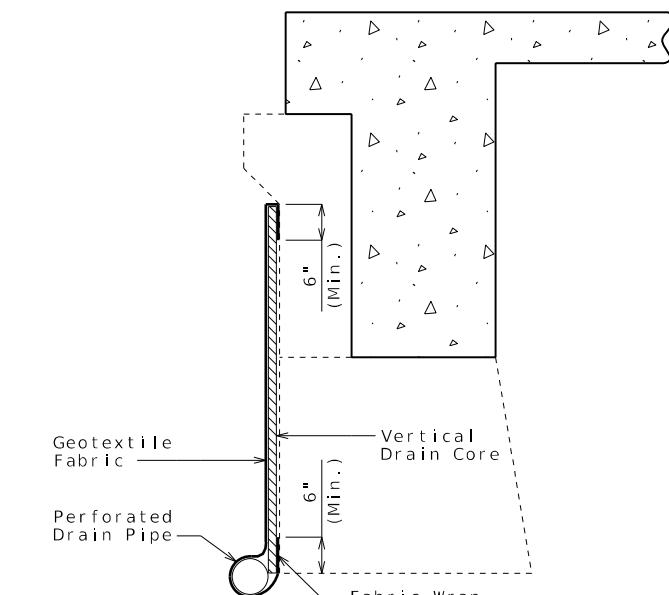
ELEVATION OF END BENT



DETAIL A



PLAN OF END BENT

PART SECTION A-A
(Section thru wing similar)

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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.

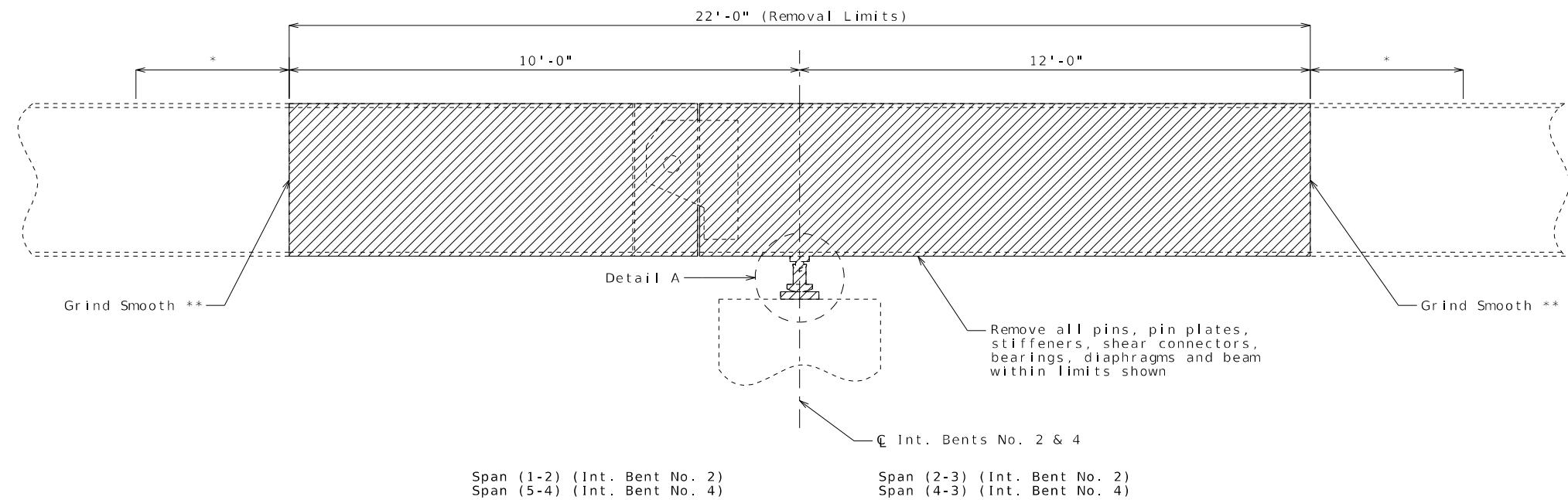
Perforated pipe shall be placed at fill face side and inside face of wings at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.

VERTICAL DRAIN AT END BENTS

(Squared end bent shown, skewed end bent similar)



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ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 5
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PROJECT NO.
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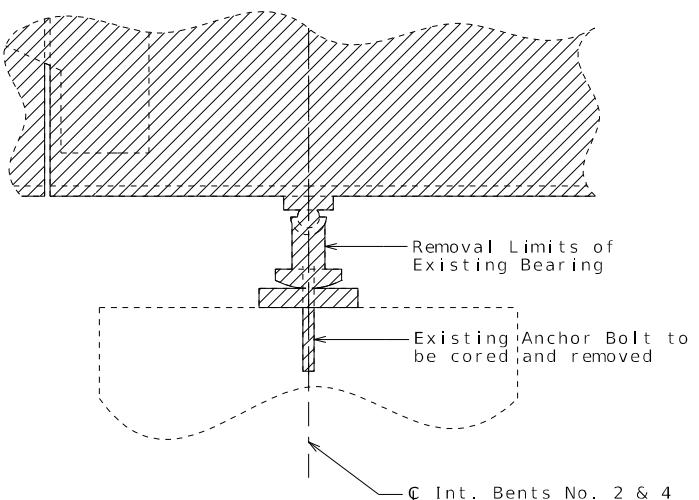


PART ELEVATION OF EXISTING BEAMS NEAR INT. BENTS NO. 2 & 4
SHOWING STRUCTURAL STEEL REMOVAL

Int. Bent No. 2 shown, Int. Bent No. 4
similar, opposite hand.

* Any shear connectors interfering with
splice plate installation shall be removed.

** The cut end of existing beams and any
damaged areas of existing paint shall be
coated with Gray Epoxy-Mastic Primer.



DETAIL A

DETAILS OF REMOVALS FOR EXISTING BEAMS

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

Sheet No. 5 of 15

Detailed Sept. 2025
Checked Sept. 2025

Notes:

Removal of existing beams, shear studs, intermediate diaphragms, pins, pin plates, end diaphragms, bearings, anchor bolts and any other incidental material included in the beam region being removed, and any coating repair will be considered completely covered by the contract unit price for Reconfigure Existing Structural Steel.

Any weld material remaining after removal shall be ground flush.

Required temporary support load of 7 kips per beam on the Span (1-2) side of Bent No. 2 and the Span (4-5) side of Bent No. 4. Additionally, there is a required temporary support load of 14 kips per beam on the Span (2-3) side of Bent No. 2 and the Span (3-4) side of Bent No. 4. These temporary support loads are service loads without a factor of safety. They include existing beam weight (existing deck weight not included) and a construction load of 50 psf.

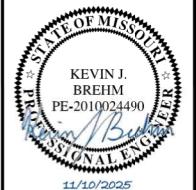
For Plan of Structural Steel, see Sheet No. 7.

For Elevation of Proposed Beam Showing Reconfiguration, see
Sheet No. 8.

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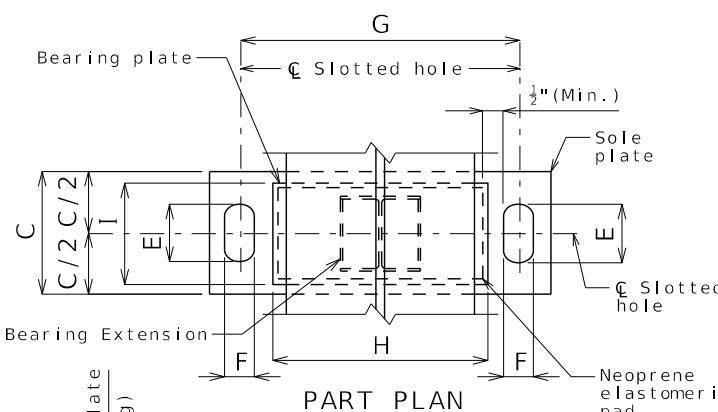
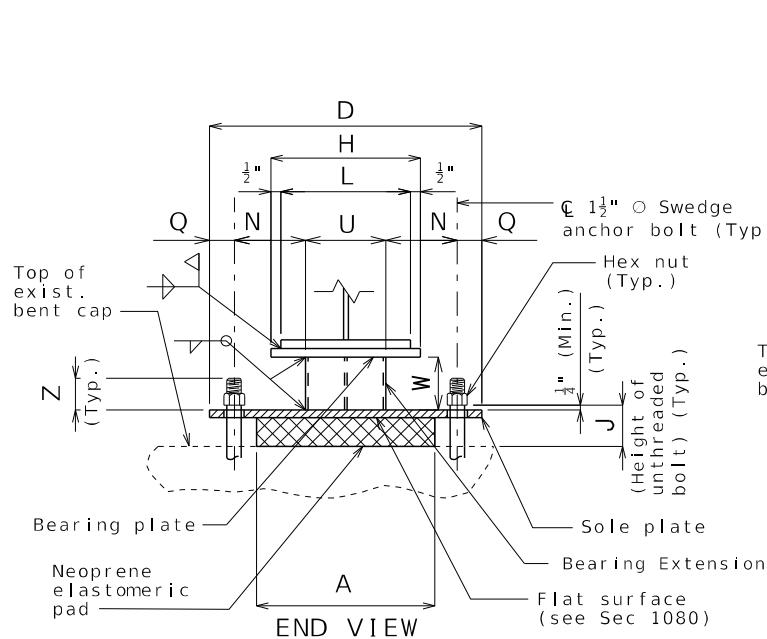
DATE PREPARED
11/10/2025
ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 6
COUNTY PULASKI
JOB NO. JCD0031
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A30511

DESCRIPTION

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HRGreen



SIDE ELEVATION OF BEARING EXTENSION AND BEARING PLATE

END ELEVATION OF BEARING EXTENSION AND BEARING PLATE

EXPANSION BEARINGS																									
BENT NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	T	U	V	W	X	Z	NUMBER OF SHIM PLATES *	NUMBER REQUIRED
2	14"	14"	15"	22 ¹ / ₂ "	4 ¹ / ₂ "	1 ⁵ / ₈ "	18"	13"	13 ¹ / ₄ "	4 ¹ / ₄ "	2 ¹ / ₂ "	12"	1 ¹ / ₂ "	3"	0"	2 ¹ / ₄ "	1 ¹ / ₁₆ "	15"	12"	12 ¹ / ₄ "	4 ⁵ / ₈ "	1 ¹ / ₂ "	2 ¹ / ₄ "	4	6
4	14"	14"	15"	22 ¹ / ₂ "	4 ¹ / ₂ "	1 ⁵ / ₈ "	18"	13"	13 ¹ / ₄ "	4 ¹ / ₄ "	2 ¹ / ₂ "	12"	1 ¹ / ₂ "	3"	0"	2 ¹ / ₄ "	1 ¹ / ₁₆ "	15"	12"	12 ¹ / ₄ "	4 ⁵ / ₈ "	1 ¹ / ₂ "	2 ¹ / ₄ "	4	6
TOTAL BEARINGS																				12					

* The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

** Equivalent size plates may be welded together to substitute for the W12x72 rolled section.



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11/10/2025

ROUTE 7 STATE MO

DISTRICT BR SHEET NO. 7

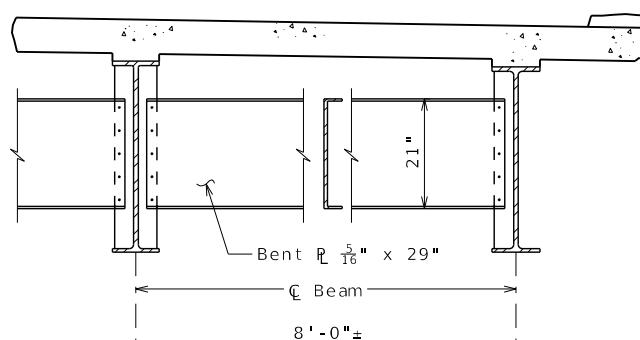
COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

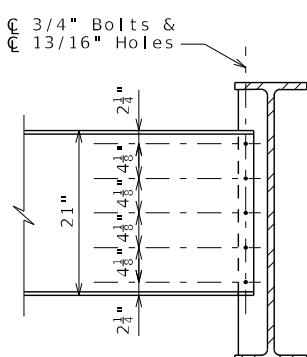
PROJECT NO.

BRIDGE NO. A30511



TYPICAL PART SECTION SHOWING
INTERMEDIATE DIAPHRAGMS

At the contractor's option, holes in the diaphragm plate of non slab bearing diaphragms may be made $3/16"$ larger than the nominal diameter of the bolt. A hardened washer shall be used under the bolt head and nut when this option is used. Holes in the beam diaphragm connection plate or transverse web stiffener shall be standard size.



SECTION THRU BEAM
AT DIAPHRAGM

Notes:

Fabricated structural steel shall be ASTM A709 Grade 50 for new steel.

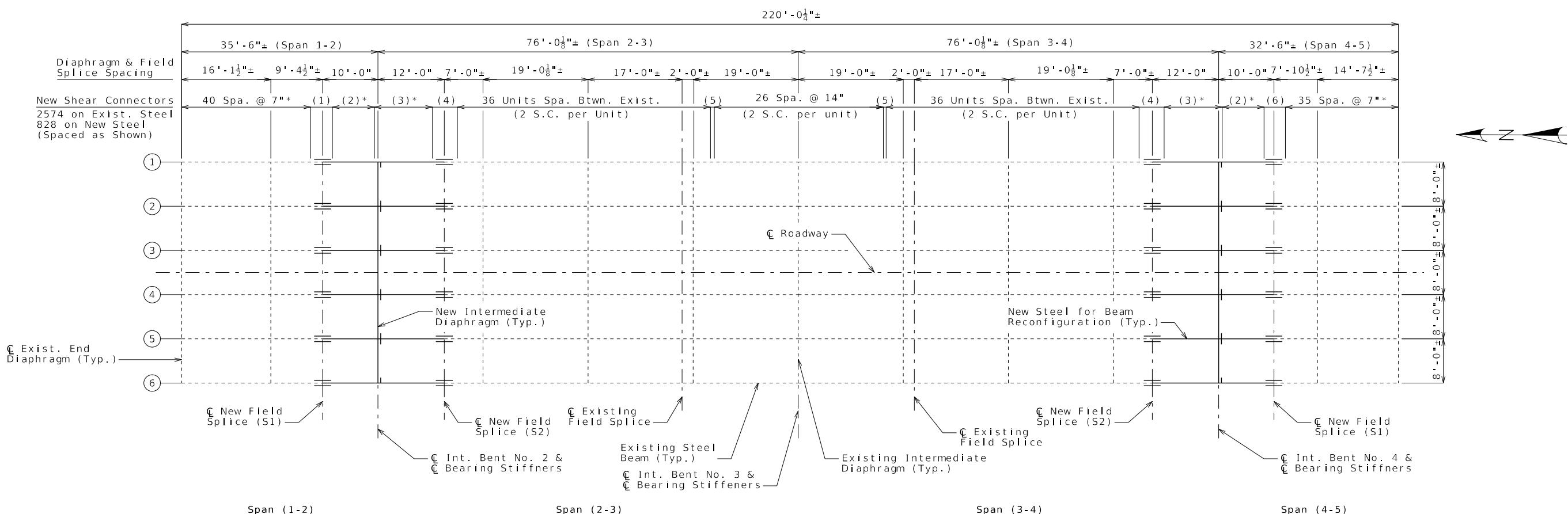
For details of structural steel removal, see Sheet No. 5.

For details of bolted field splice, see Sheet No. 9.

For additional details of new structural steel and shear connector details, see Sheet No. 8.

Payment for the installation of 2574 shear connectors onto existing steel will be considered completely covered by the contract unit price for Shear Connectors.

Weight of 519 pounds of shear connectors attached to new steel is included in the weight of Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50.



PLAN OF STRUCTURAL STEEL

Note: Longitudinal dimensions are taken parallel to grade.

* 3 Shear Connectors per Unit

- (1) 3'-11 1/4"
- (2) 13 Spa. @ 7"
- (3) 9 Spa. @ 14"
- (4) 4'-6 1/4"
- (5) 8 5/8"
- (6) 3'-10 1/4"

PLAN OF STRUCTURAL STEEL AND DIAPHRAGM DETAIL

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

Sheet No. 7 of 15



KEVIN J.
BREHM
PE-201002490
11/10/2025

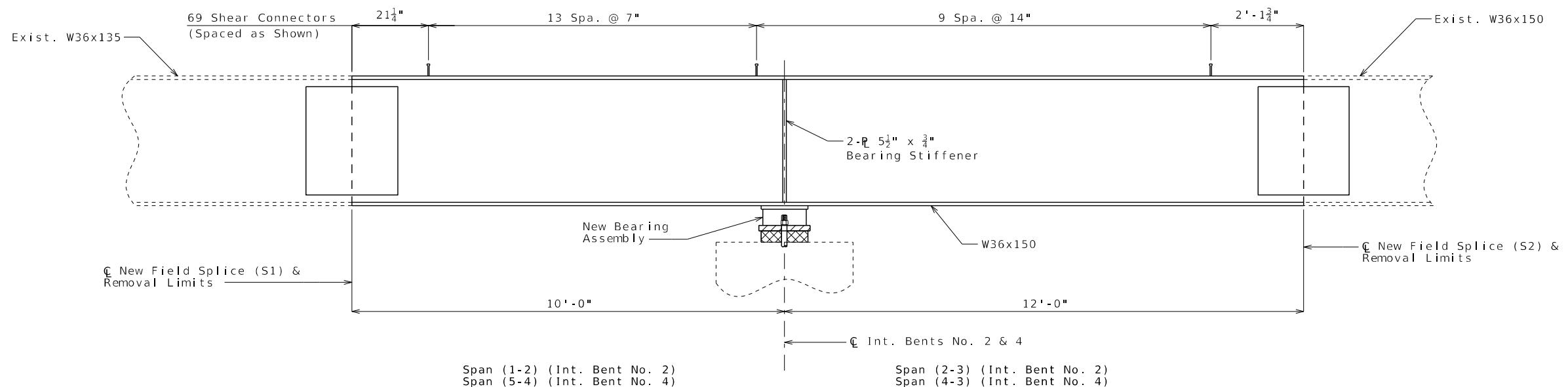
DATE PREPARED
11/10/2025
ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 8
COUNTY PULASKI
JOB NO. JCD0031
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A30511

DESCRIPTION	DATE

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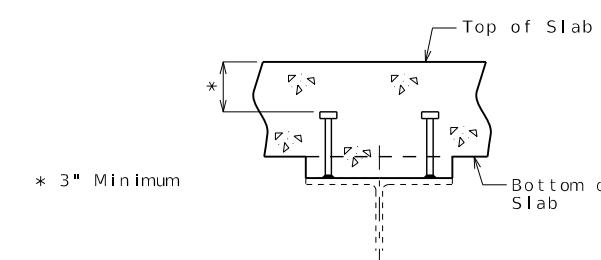


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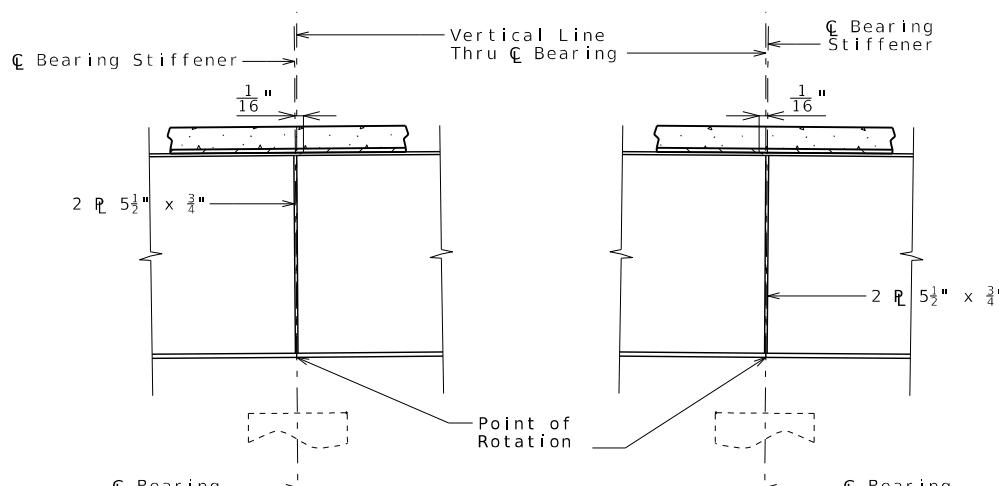


PART ELEVATION OF PROPOSED BEAMS
SHOWING RECONFIGURATION

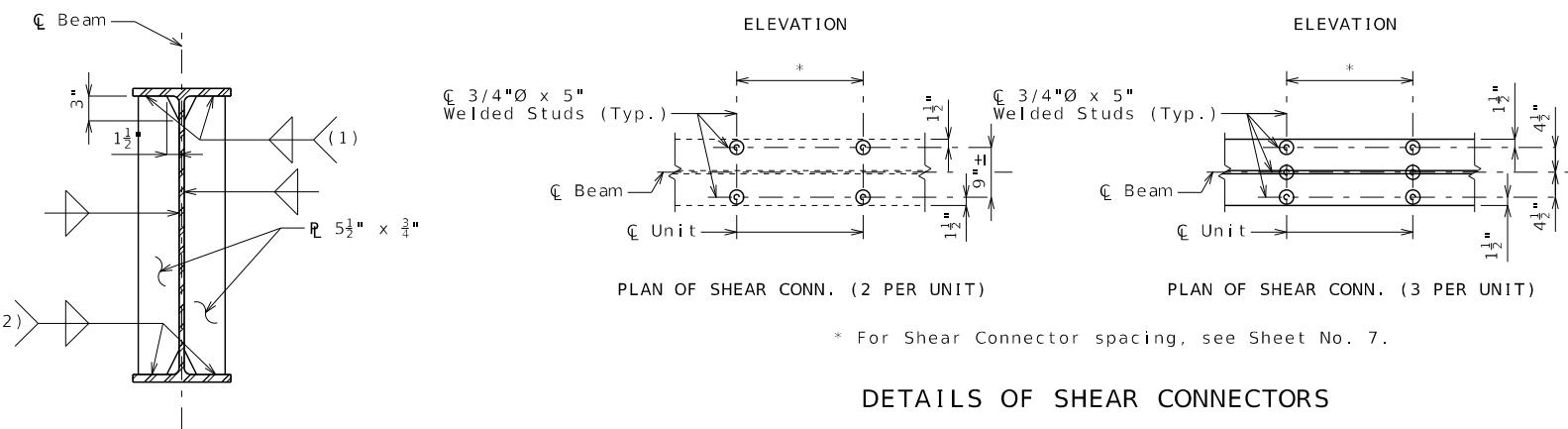
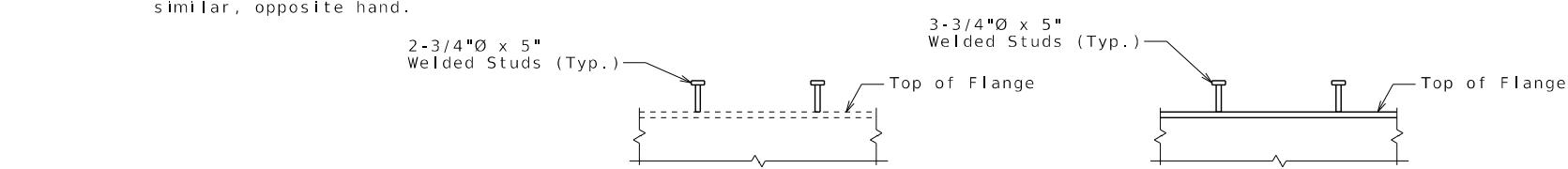
Int. Bent No. 2 shown, Int. Bent No. 4
similar, opposite hand.



SECTION THRU EXIST.
BEAM SHOWING
SHEAR CONNECTORS



PART LONGITUDINAL SECTION



DETAILS OF SHEAR CONNECTORS

* For Shear Connector spacing, see Sheet No. 7.

BEARING STIFFENER
WELDING DETAILS

- (1) Tight Fit
- (2) Grind or mill to bear.

Notes:

New fabricated structural steel shall be ASTM A709 Grade 50.

For Details of Removals for Existing Beams, see Sheet No. 5.

Shear connectors shall be in accordance with Sec 712, 1037 & 1080.

Notch toughness is required for all wide flange beams and splice plates.

DETAILS OF REPLACEMENT BEAMS

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

Sheet No. 8 of 15



DATE PREPARED
11/10/2025

ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 9

COUNTY PULASKI
JOB NO. JCD0031
CONTRACT ID.

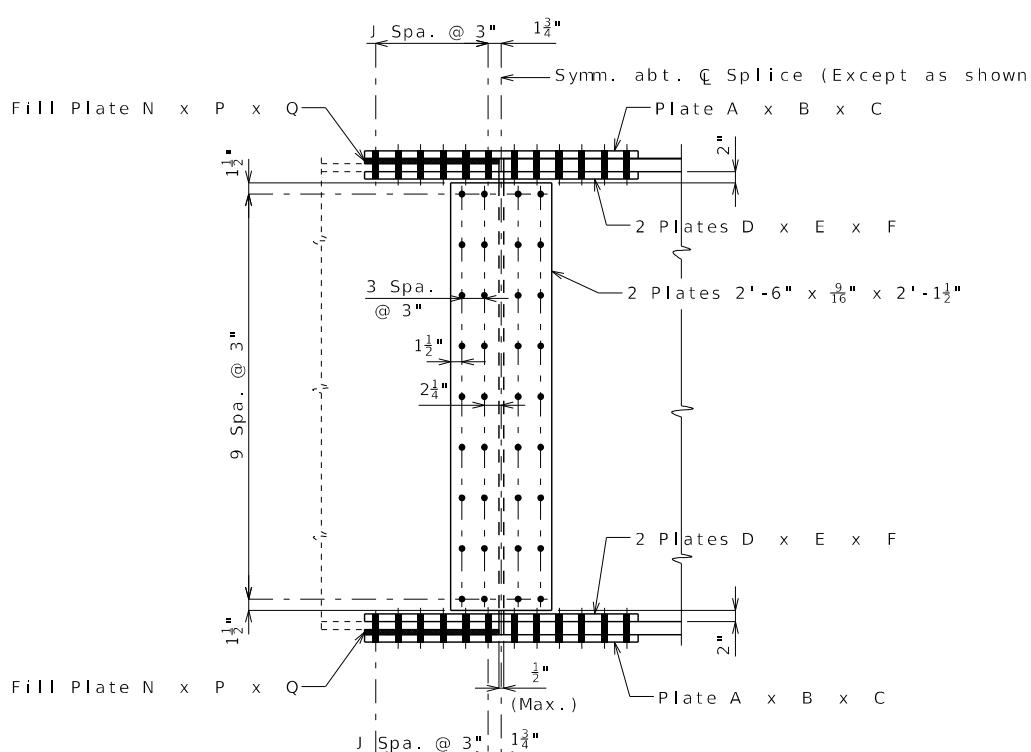
PROJECT NO.

BRIDGE NO. A30511

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	DATE	DESCRIPTION



HR GREEN, INC.
520 MARVILLE CENTRE DRIVE,
SUITE 100
ST. LOUIS, MISSOURI 63141
PHONE: (314) 519-0990
CORPORATE LICENSE #2002006608



DETAIL OF BOLTED FIELD SPLICE

Bolts shall be 7/8-inch diameter ASTM F3125 Grade A325 Type 1 in 15/16-inch diameter holes.

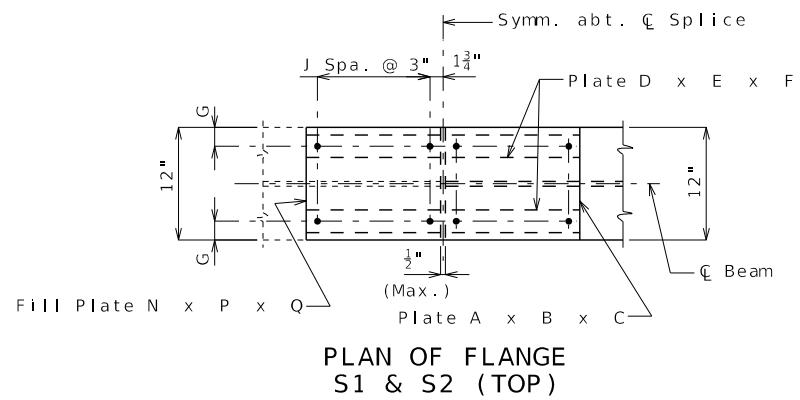
Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

Note:

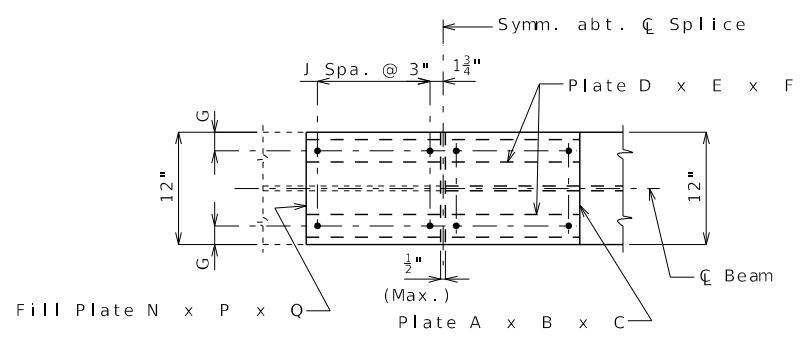
The cost of all splice materials, including any plates, bolts, nuts, and washers, shall be considered completely covered by the contract unit price per pound for Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50.

The existing steel contact surfaces that will become faying surfaces for the slip critical bolted splice connections shall have the surface prepared in accordance with Recoating of Structural Steel (System G, H or I) in Sec 1081 and contact surfaces shall be in accordance with Protective Coating of Structural Steel in Sec 1081.

Payment for any modifications to the existing beams for splicing purposes will be considered completely covered by the contract unit price for Reconfigure Existing Structural Steel.



PLAN OF FLANGE
S1 & S2 (TOP)



PLAN OF FLANGE
S1 & S2 (BOTTOM)

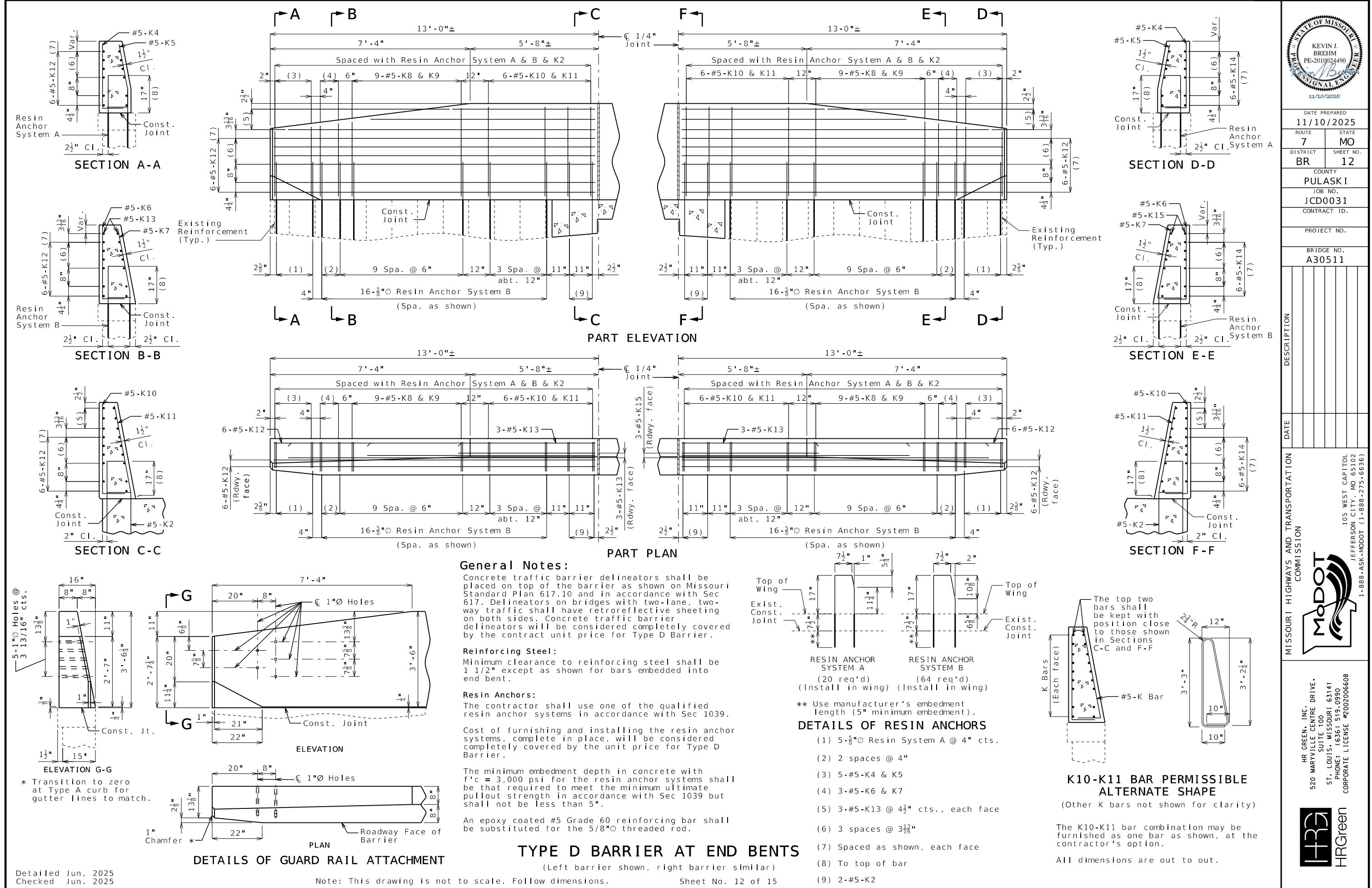
TABLE OF DIMENSIONS - FIELD SPLICE											
LOCATION	A	B	C	D	E	F	G	J	N	P	Q
S1 (BOTTOM)	12"	5"	3'-0 1/2"	4"	3/4"	3'-0 1/2"	2 3/4"	5	12"	1/8"	18"
S1 (TOP)	12"	5"	3'-0 1/2"	4"	3/4"	3'-0 1/2"	2 3/4"	5	12"	1/8"	18"
S2 (BOTTOM)	12"	5"	3'-0 1/2"	4"	3/4"	3'-0 1/2"	2 3/4"	5	0"	0"	0"
S2 (TOP)	12"	5"	3'-0 1/2"	4"	3/4"	3'-0 1/2"	2 3/4"	5	0"	0"	0"

FIELD SPLICE DETAILS



DATE PREPARED
11/10/2025
ROUTE 7 STATE MO
DISTRICT BR SHEET NO. 10
COUNTY PULASKI
JOB NO. JCD0031
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A30511

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STATE OF MISSOURI
KEVIN J. BREHM
PE-201002490
PROFESSIONAL ENGINEER
11/10/2025

DATE PREPARED
11/10/2025

ROUTE 7	STATE MO
DISTRICT BR	SHEET NO. 14
COUNTY PULASKI	JOB NO. JCD0031
CONTRACT ID.	PROJECT NO.
BRIDGE NO. A30511	

Finished Bend Diameters D and Hook Dimensions

Size	Case	D	A or G		J
			90°	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 3/4"
#11	1	12"	24 1/2"	19 1/2"	14 5/8"
#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"

Stirrup Pin Bend Shapes (S)

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

Reinforcing Steel Totals (Pounds)

Size	Superstructure			Entire Bridge Epoxy
	Slab Epoxy	Barrier	Slip Form	
By 5	35,416	12,010	689	48,115
Size 6	56,482	0	0	56,482
By Type	91,898	12,010	689	104,597

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

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

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

Sheet No. 14 of 15

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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105 WEST CAPITOL JEFFERSON CITY, MO 65102
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