

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.

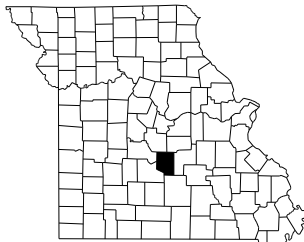
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THE PROJECT TO WHICH THIS PAGE REFERS.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
PLANS FOR PROPOSED  
STATE HIGHWAY

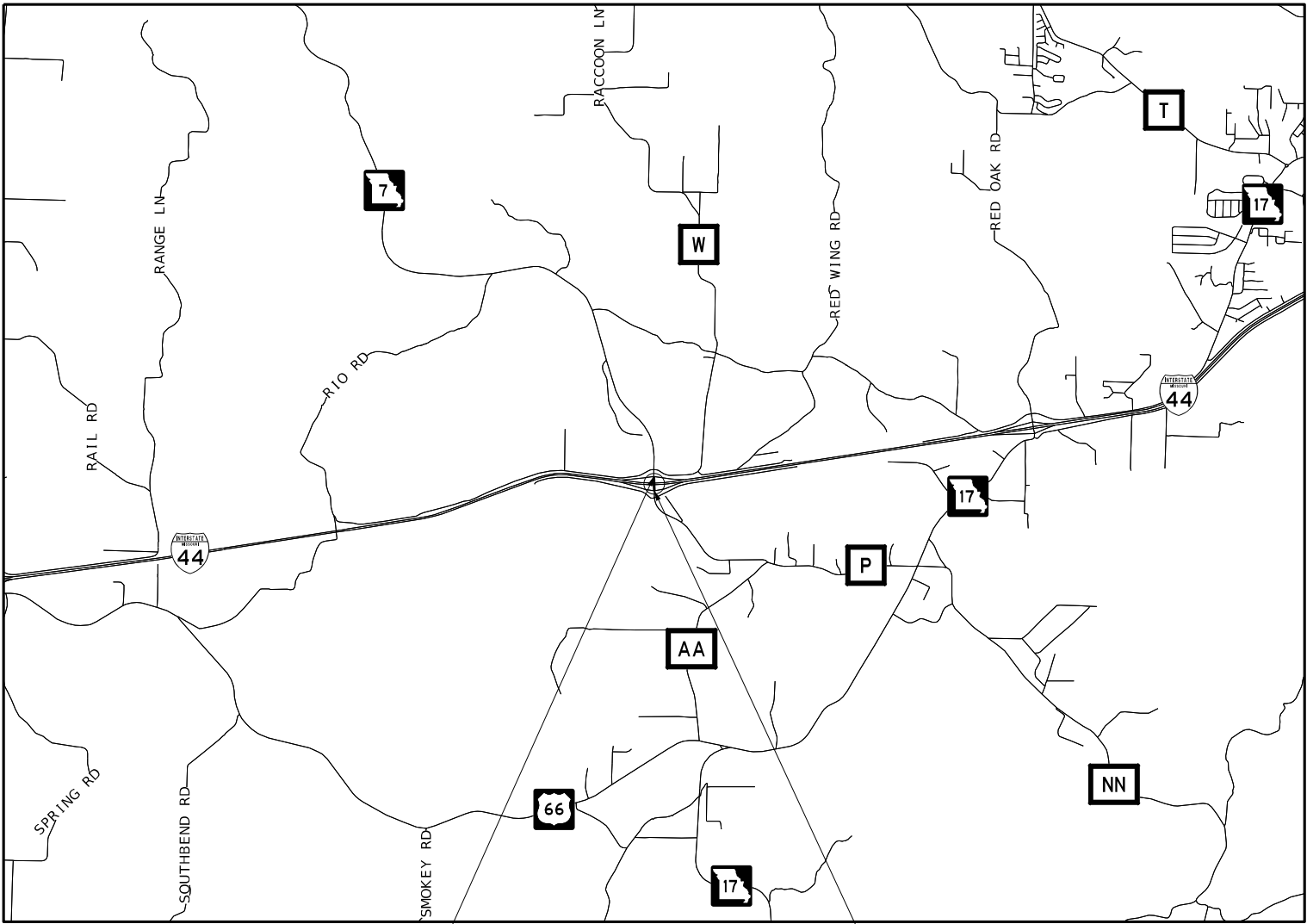


KEY MAP  
LOCATION OF PULASKI COUNTY

PULASKI COUNTY

SECTION 12, T35N, R13W

NOT TO SCALE



BEGIN PROJECT  
LIMIT RTE 7  
LOG MILE 186.592

PROJECT LIMITS  
RTE 7 OVER I-44 - BRIDGE #A3051

END PROJECT  
LIMIT RTE 7  
LOG MILE 186.676

BRIDGE REHABILITATION, DECK REPLACEMENT,  
TYPE D BARRIER, GUARDRAIL REPLACEMENT

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.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

MoDOT

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

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 186.592
END OF PROJECT	LOG MILE 186.676
APPARENT LENGTH	445.60 FEET
EQUATIONS AND EXCEPTIONS:	NONE

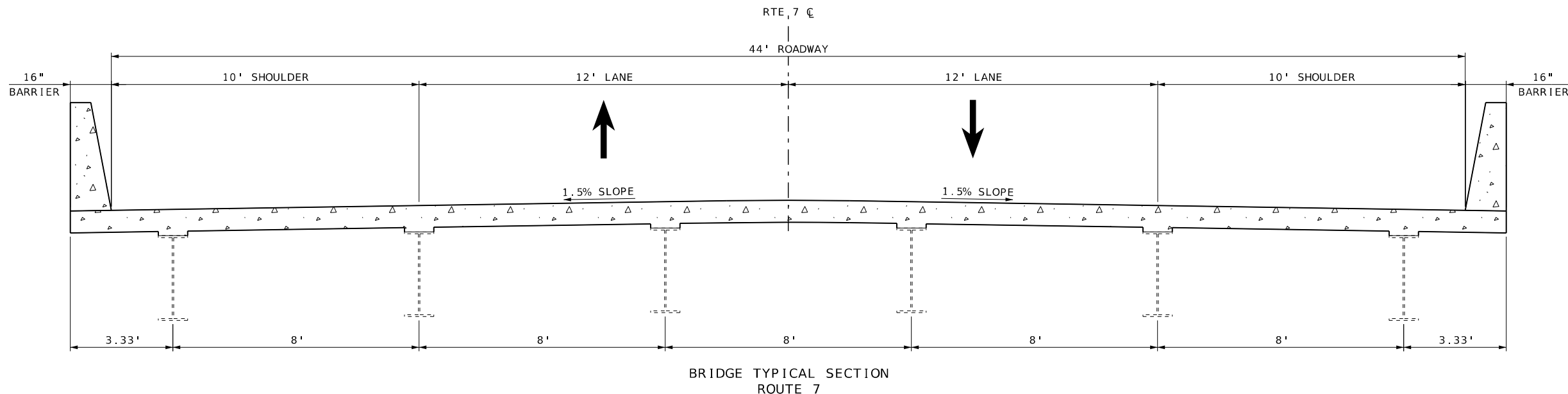
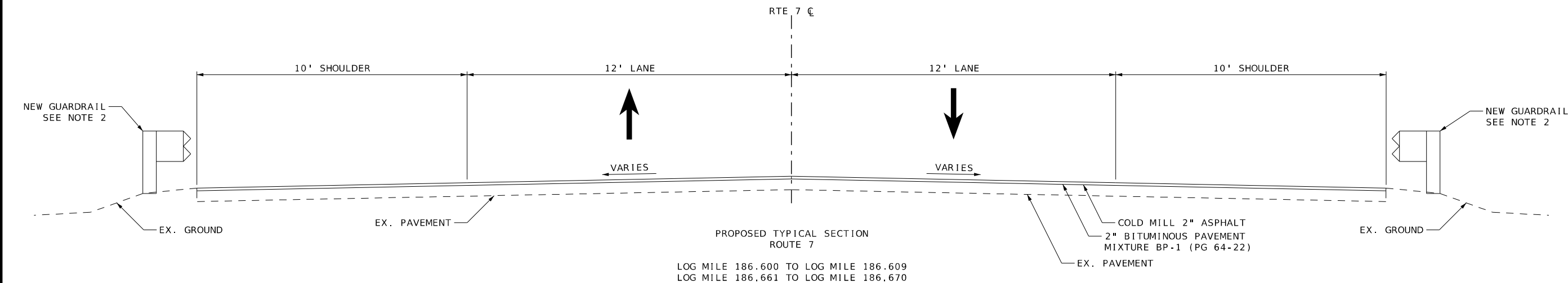
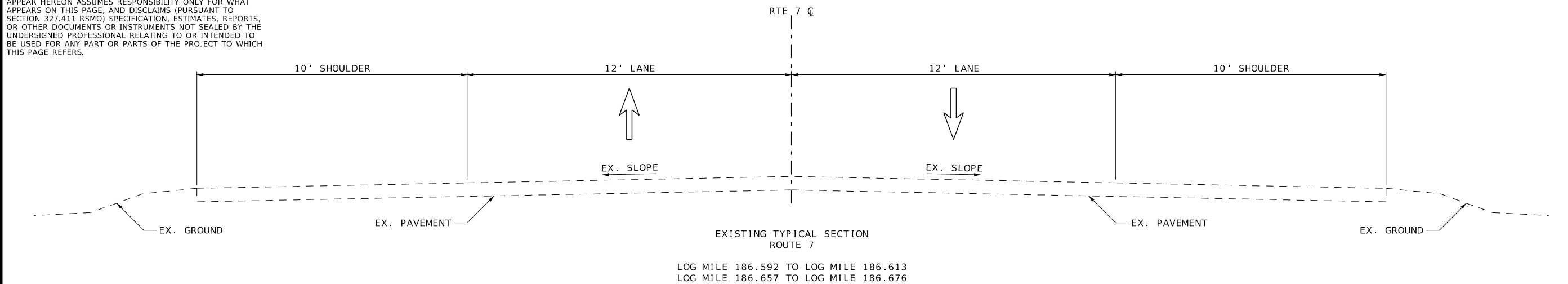
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	445.60 FEET
STATE LENGTH	0.084 MILES

FOR INFORMATION ONLY  
ESTIMATED DISTURBED ACRES 0.0 ACRES

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



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THIS PAGE REFERS.



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

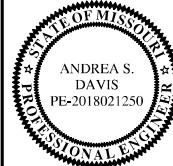
NOTES:  
1) ALL LOG MILES ARE DETERMINED FROM  
THE SOUTH DIRECTION OF RTE 7  
2) SEE PLAN SHEET FOR GUARDRAIL LIMITS

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



Andrea S. Davis  
11/10/2025 12:59:00 PM  
Andrea S. Davis - Civil  
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.

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

HRGreen

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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) TON	TACK COAT (0.10 GAL/SY) GAL	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	726	
PAY TOTAL					726	726	

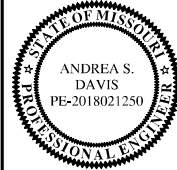
PERMANENT EROSION CONTROL							
PLAN SHEET NO.	ROADWAY	LOG MILE	LOC.	FURNISHING TYPE 1 ROCK DITCH LINER CY	PLACING TYPE 1 ROCK DITCH LINER CY	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
4	RTE 7	186.610	LT	14	14	47	ASSUMED 3' W X 60' L X 2' D
4	RTE 7	186.610	RT	14	14	47	ASSUMED 3' W X 60' L X 2' 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	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	REMARKS
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	

QUANTITIES  
SHEET 1 OF 2



Andrea S. Davis  
11/10/2025 12:59:06 PM  
Andrea S. Davis - Civil  
MO 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.

DESCRIPTION	DATE								



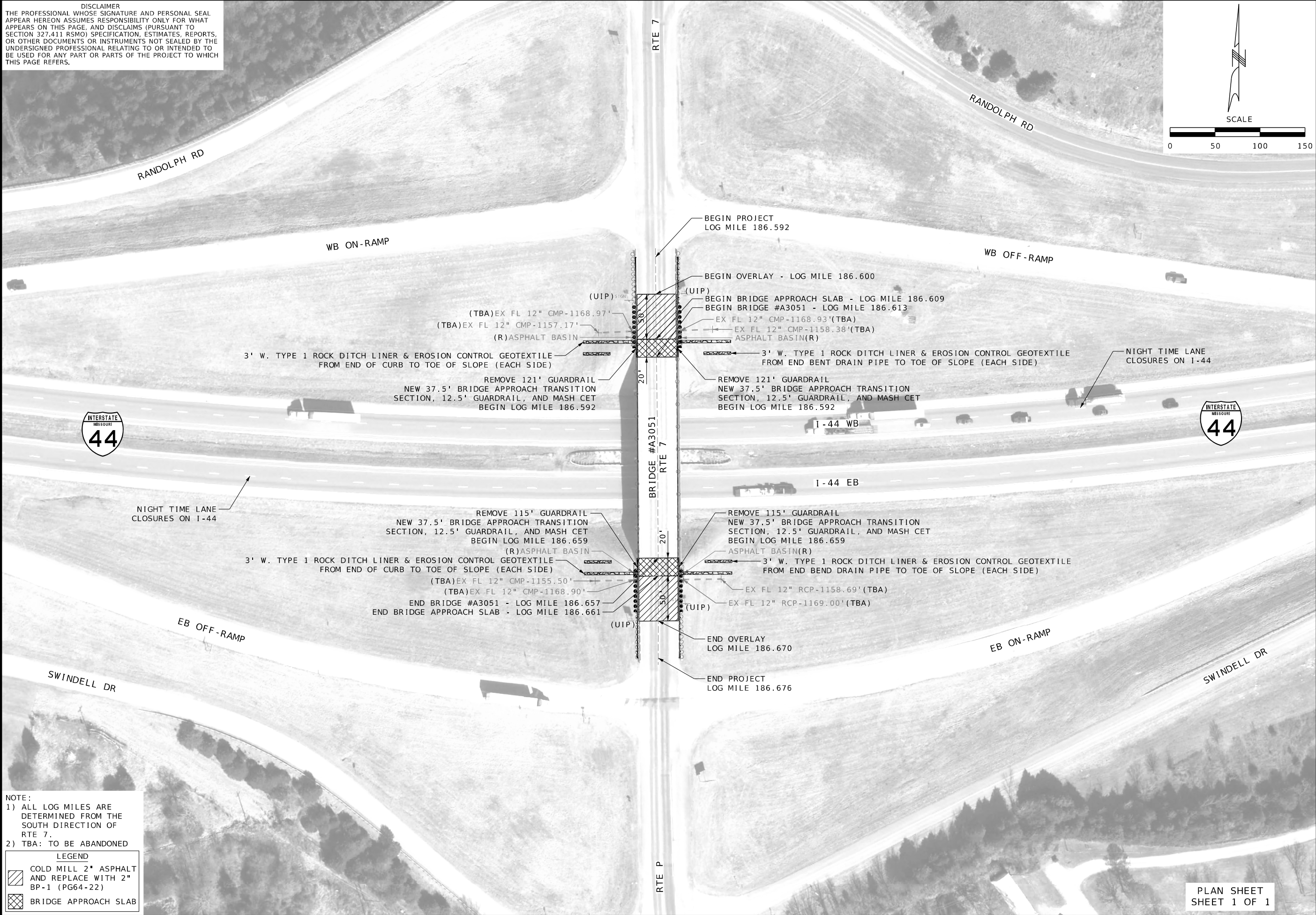
HR GREEN, INC.  
520 MARYVILLE CENTRE DRIVE,  
SUITE 100  
ST. LOUIS, MISSOURI 63141  
PHONE: (636) 519-0990  
CORPORATE LICENSE #2002006608



SIGN								SIGN								SIGN								ITEM		TOTAL		EFFECTIVE: 07-01-2025	
SIZE	AREA	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	SIZE	AREA	QTY	TOTAL	RELOC	RELOC	SIGN	DESCRIPTION	NUMBER	QTY	DESCRIPTION	STATE	SHEET NO.									
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.		IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.															
WARNING SIGNS								GUIDE SIGNS								6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)		ANDREA S. DAVIS									
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT)	E05-1	36X48	12.00	2	24.00	1	12.00	49	GORE EXIT	6122009	IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	PE-2018021250										
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT)	E05-2	48X36	12.00	2	24.00	1	12.00	48	EXIT OPEN	6122010	IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	11/10/2025 12:59:10 PM										
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012	IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	Andrea S. Davis - Civil										
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	4	40.00			1	ROAD WORK NEXT XX MILES	6122014	IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	MO PE-2018021250										
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	4	32.00			26	END ROAD WORK	6122017	IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	DATE PREPARED										
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019	IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	11/10/2025										
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020	REPLACEMENT SAND BARREL	STATE										
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030	IMPACT ATTENUATOR (RELOCATION)	MO										
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	4	24.00			54	WORK ZONE (PLAQUE)	6122040	WORK ZONE CRASH CUSHION (NARROW)	DISTRICT										
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041	WORK ZONE CRASH CUSHION (RELOCATION)	CD										
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001	1** TRUCK MOUNTED ATTENUATOR (TMA)	3										
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012	BUOYS (BOATS KEEP OUT)	COUNTY										
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013	BUOYS (NO WAKE)	PULASKI										
WO1-6a	72X36	18.00					HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014	SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	JOB NO.										
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020	CHANNELIZER (DRUM-LIKE)	JCD0031										
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS								6161022	CHANNELIZER (CONE)	CONTRACT ID.											
WO1-8	18X24	3.00					CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	146 CHANNELIZER (TRIM-LINE)	PROJECT NO.										
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026	CHANNELIZER (VERTICAL PANEL)	BRIDGE NO.										
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	48 TYPE 3 MOVEABLE BARRICADE	DESCRIPTION										
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	64 DIRECTION INDICATOR BARRICADE	DATE										
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00	4	48.00	4	SPEED LIMIT 60	6161040	4 FLASHING ARROW PANEL	DATE										
WO3-4	48X48	16.00					BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047	TYPE 3 OBJECT MARKER	DATE										
WO3-5	48X48	16.00					SPEED LIMIT AHEAD	R3-2</																					

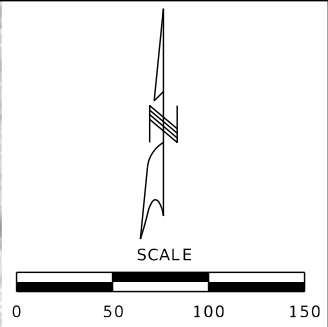


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NOTE:  
1) ALL LOG MILES ARE  
DETERMINED FROM THE  
SOUTH DIRECTION OF  
RTE 7.  
2) TBA: TO BE ABANDONED

LEGEND  
COLD MILL 2\"/>



STATE OF MISSOURI

ANDREA S. DAVIS

PE-2018021250

PROFESSIONAL ENGINEER

11/10/2025 12:59:14 PM

Andrea S. Davis - Civil

MO PE-2018021250

DATE PREPARED  
11/10/2025

ROUTE  
7

STATE  
MO

DISTRICT  
CD

SHEET NO.  
4

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)

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

HRGreen

HRGreen

PLAN SHEET  
SHEET 1 OF 1

\\hrgreen.com\hrg\Data\2022\2202603.03\CAD\Roadway\Plan\_Sheets\04\_PL\_01\_JCD0031\_150.dgn 11:59:48 AM 11/10/2025



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ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.		
PROJECT COORDINATE INFORMATION		
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983	
HORIZONTAL DATUM	NAD83	
VERTICAL DATUM	NAVD88	
GEOID MODEL	GEOID 18	
ELEVATIONS DETERMINED BY	GPS	
PROJECT PROJECTION FACTOR	1.00010090	
REFERENCE CONTROL INFORMATION		
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983	
CONTROL STATION	MISSOURI COR	
DESIGNATION	MODOT ST ROBERT CORS ARP	
CORS_ID	MOSR	
PID	DL6906	
LATITUDE	N37°49'14.66174"	
LONGITUDE	W092°09'15.38856"	
NORTHING (M)	220592.8700	
EASTING (M)	530437.7000	
ZONE	CENTRAL	
PROJECT AVERAGE GRID FACTOR	0.99989911	
EXAMPLE OF PROJECT COORDINATE TO S.P.C.		
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING  EXAMPLE: CONTROL POINT #302 N 708,121.649 X 0.99989911 = N 708,050.2066 E 1,693,073.549 X 0.99989911 = E 1,692,902.735		
LINEAR UNIT CONVERSION		
1 METER = 3.280833333 US SURVEY FEET (USFT)		

COORDINATE POINT LISTING								
SHEET NO	APPROX. LOG MILE	LOCATION	APPROX. OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION	POINT ID
				NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)		
PROJECT CONTROL POINTS								
4	186.590	LT	38'	708,121.649	1,693,073.549	1,168.35	IRON ROD WITH CAP	302
4	186.590	LT	83'	708,607.289	1,693,065.397	1,168.20	CUT SQUARE ON CONC. PAD	BM
4	186.684	LT	89'	708,607.606	1,693,020.016	1,170.02	IRON ROD WITH CAP	303

ANDREA S. DAVIS  
PE-2018021250  
PROFESSIONAL ENGINEER

11/10/2025 12:59:34 PM  
Andrea S. Davis - Civil  
MO PE-2018021250

DATE PREPARED  
11/10/2025

ROUTE  
7

DISTRICT  
CD

STATE  
MO

SHEET NO.  
5

COUNTY  
PULASKI

JOB NO.  
JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

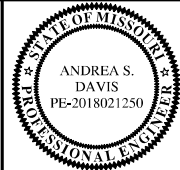
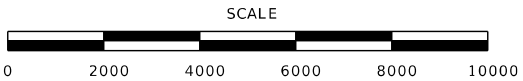
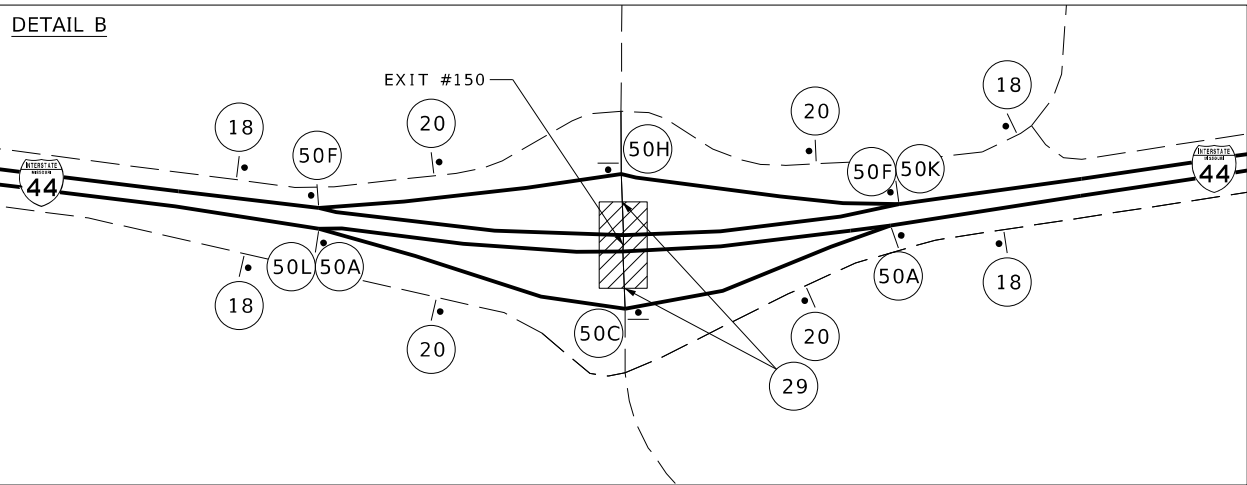
HRGreen

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THIS PAGE REFERS.

- 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



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.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

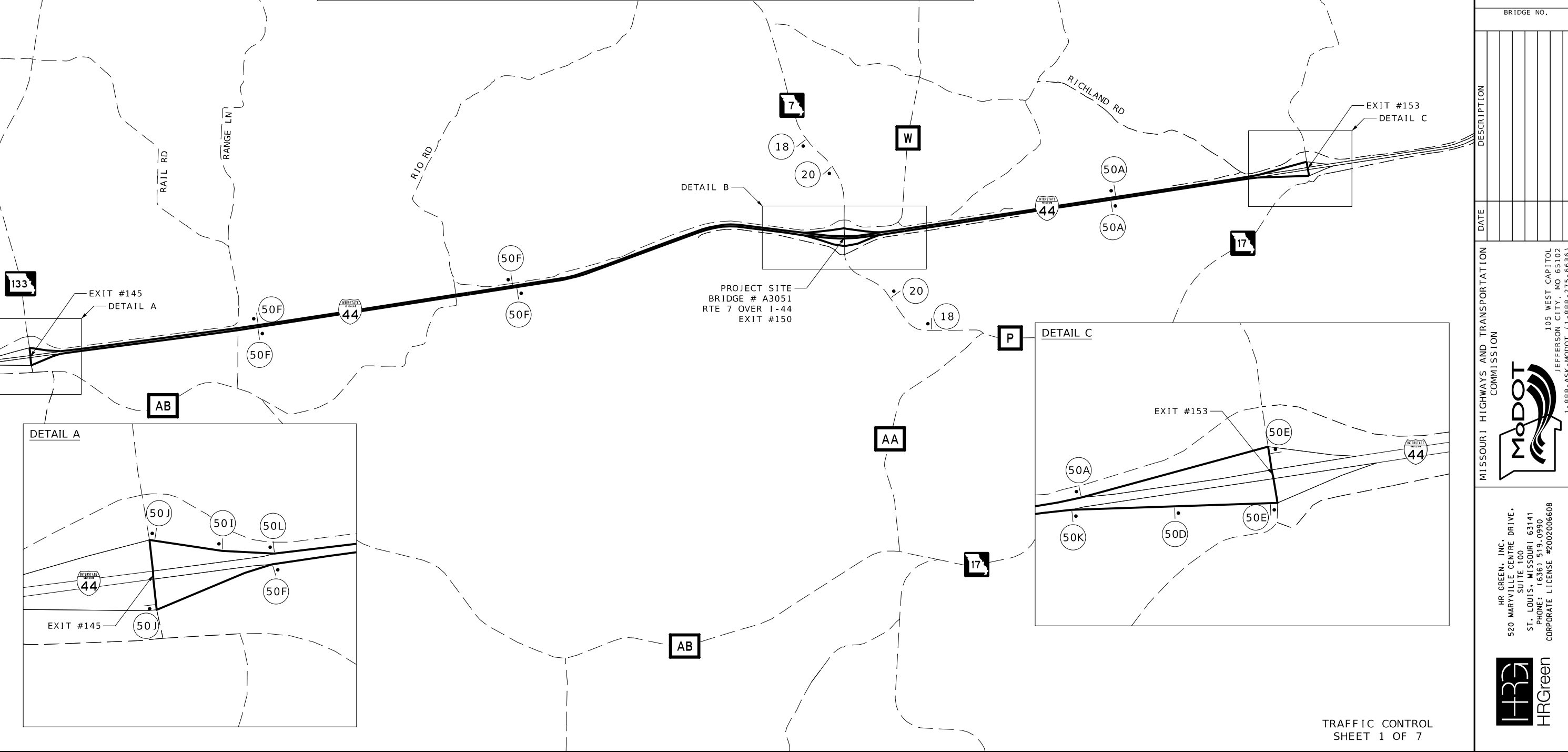
MoDOT

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

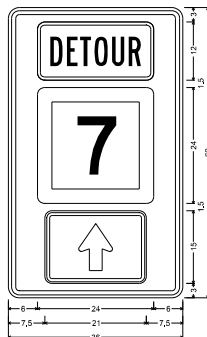
HR GREEN, INC.  
520 MARYVILLE CENTRE DRIVE,  
SUITE 100  
ST. LOUIS, MISSOURI 63141  
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TRAFFIC CONTROL  
SHEET 1 OF 7

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



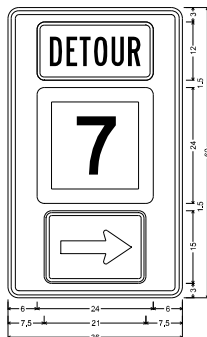
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THIS PAGE REFERS.



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

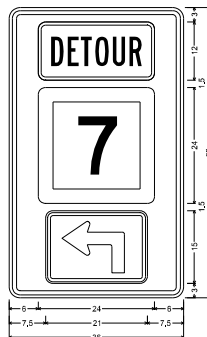
50A



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

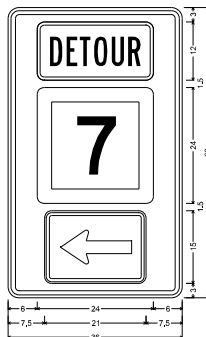
50C



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

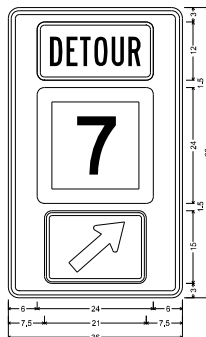
50D



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

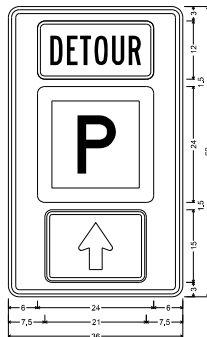
50E



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

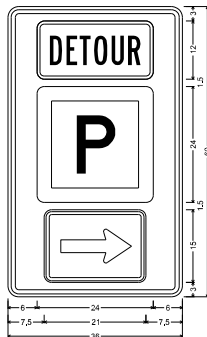
50K



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

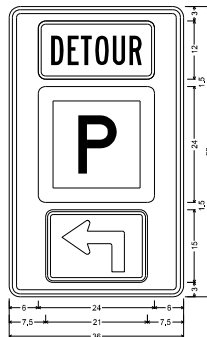
50F



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

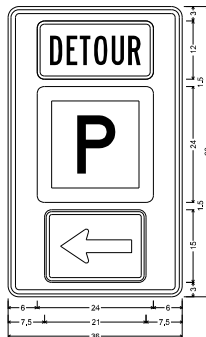
50H



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

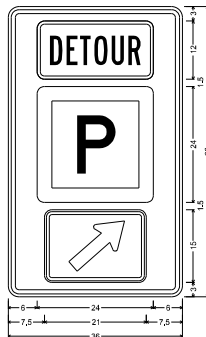
50I



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

50J



MO4-12 SHIF-FLAT SHEET FLUORESCENT;  
2,250" Radius, 0.875" Border, 0.625" Indent, Black on, Orange;  
Table of letter and object lifts

6,000
6,000
6,000
7,500

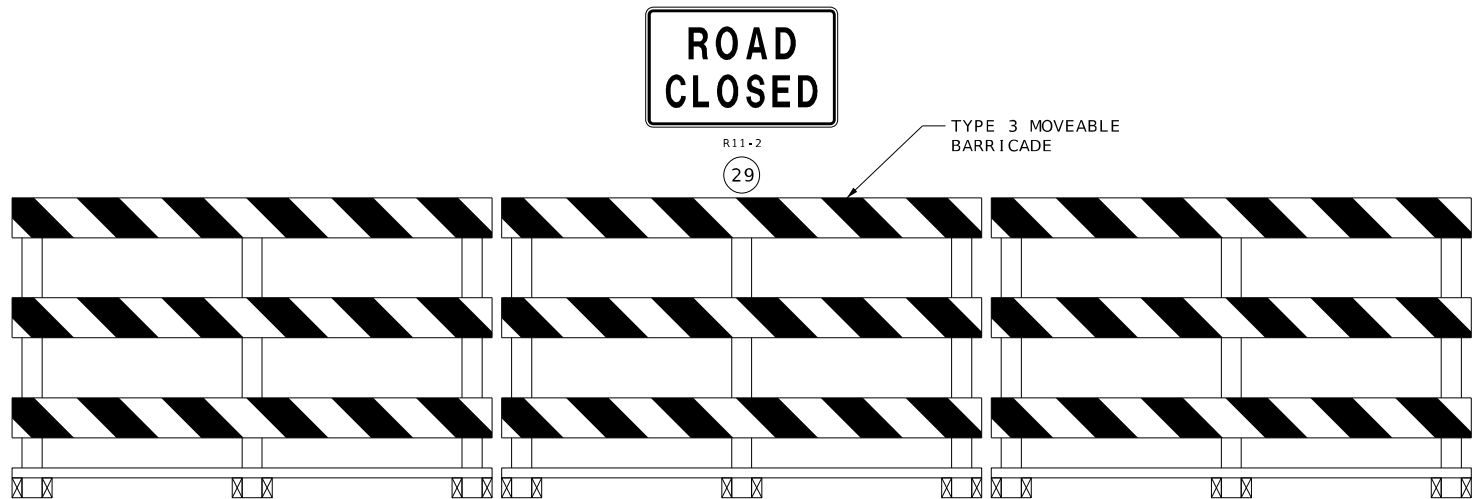
50L



WO20-2  
18



WO20-3  
20



#### GENERAL TRAFFIC CONTROL NOTES:

ANY EXISTING WARNING OR REGULATORY SIGNS (NOT SHOWN) THAT INTERFERE WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED, NO DIRECT PAY.

ALL TRAFFIC CONTROL SIGNS ARE TO BE NON-PORTABLE UNLESS OTHERWISE NOTED.

SEE STANDARD PLANS 616.10, 903.01 AND 909.03 FOR ADDITIONAL DETAILS REGARDING TRAFFIC CONTROL HIGHWAY SIGNING.

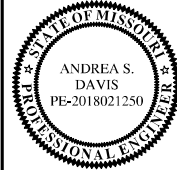
TEMPORARY TRAFFIC CONTROL SIGN AND DEVICE LOCATIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCED WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED AS DIRECTED BY THE ENGINEER.

ANY RELOCATION OF SIGNS AND DEVICES FOR TRAFFIC CONTROL CONFIGURATIONS SHALL BE CONSIDERED INCIDENTAL. NO DIRECT PAY.

R11-2 SIGN ASSOCIATED WITH THE TYPE 3 MOVEABLE BARRICADES SHALL BE MOUNTED ON POST 7-10 FEET BEHIND THE BARRICADE.

ALL WARNING SIGNS SHALL HAVE FLUORESCENT SHEETING.

SIGN NUMBERS 50B AND 50G NOT USED.



Andrea S. Davis  
11/10/2025 12:59:49 PM  
Andrea S. Davis - Civil  
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.

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 MARYVILLE CENTRE DRIVE, SUITE 100

ST. LOUIS, MISSOURI 63141

PHONE: (636) 519-0990

CORPORATE LICENSE #2002006608

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.

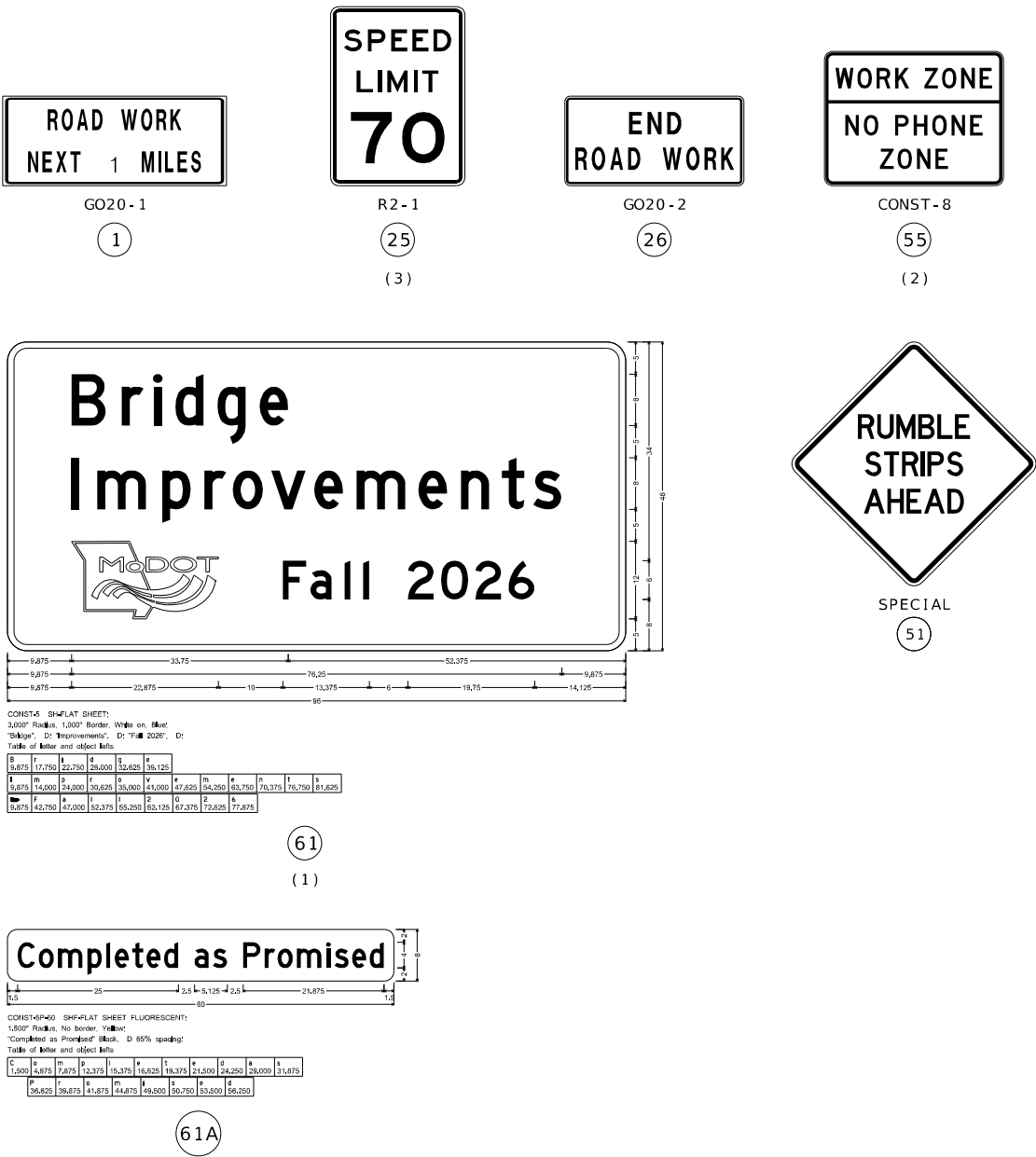
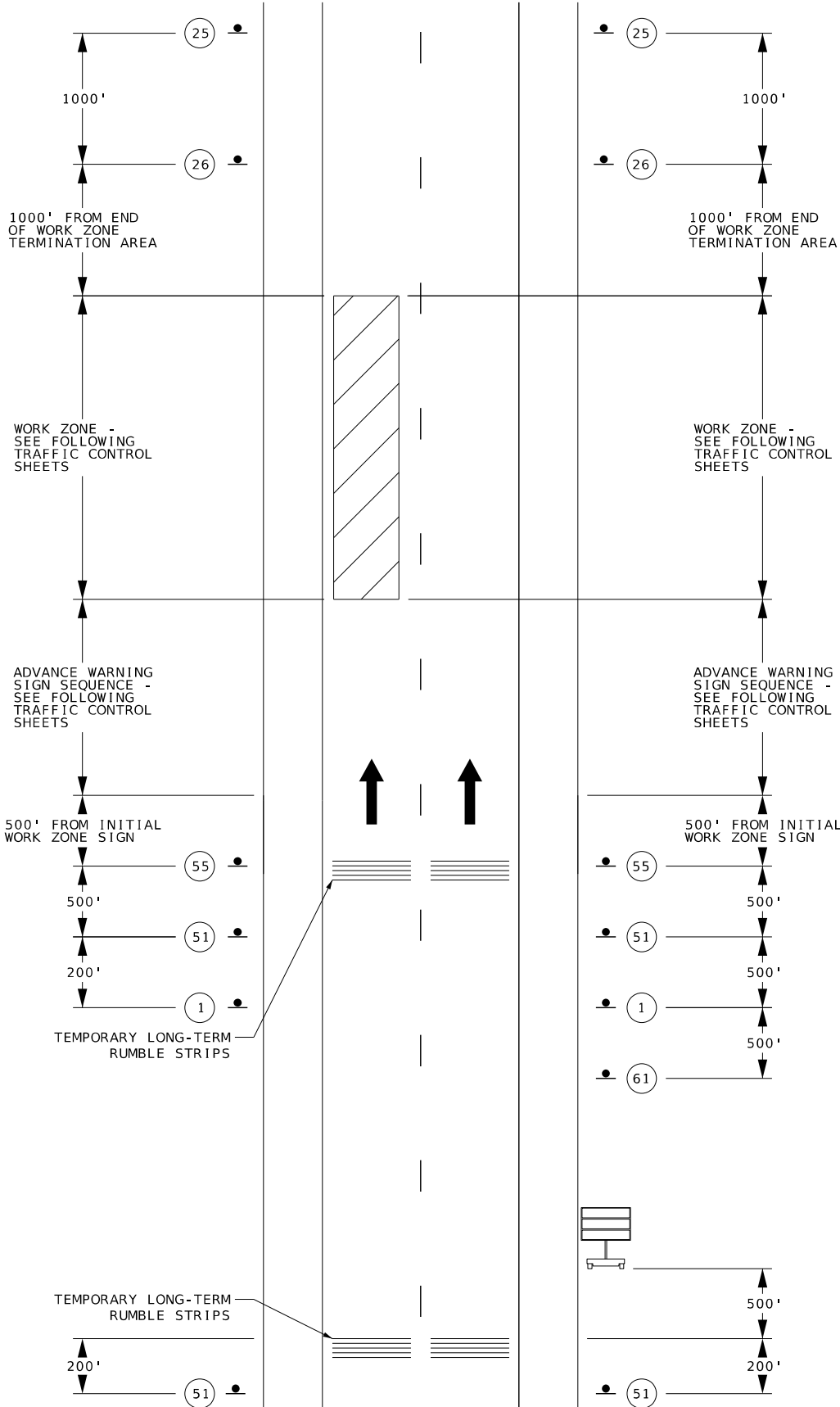
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED  
OUTSIDE THE PROJECT LIMITS. SEE ADDITIONAL TRAFFIC CONTROL SHEETS  
FOR DETOUR SIGNAGE.

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.

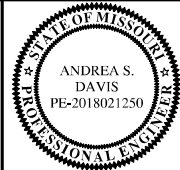
(2) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500  
FEET BEFORE THE ROAD WORK AHEAD SIGN.

(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.



NOT TO SCALE

TRAFFIC CONTROL  
SHEET 3 OF 7



Andrea S. Davis  
11/10/2025 1:00:23 PM  
Andrea S. Davis - Civil  
MO PE-2018021250

DATE PREPARED  
11/10/2025

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

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

MoDOT

HR GREEN, INC.

520 MARYVILLE CENTRE DRIVE, SUITE 100

ST. LOUIS, MISSOURI 63141

PHONE: (636) 519-0990

CORPORATE LICENSE #2002006608







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## STATIONARY LANE CLOSURE ON A DIVIDED HIGHWAY

### TRAFFIC CONTROL LEGEND

- |   |   |
|---|---|
|  | SIGN (SINGLE SIDED)   |
|  | CHANNELIZER (TRIM LINE)   |
|  | DIRECTIONAL INDICATOR BARRICADE<br>WITH SEQUENTIAL FLASHING<br>WARNING LIGHTS |
|  | FLASHING ARROW PANEL (FAP)  |
|  | PROTECTED VEHICLE WITH TRUCK<br>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.

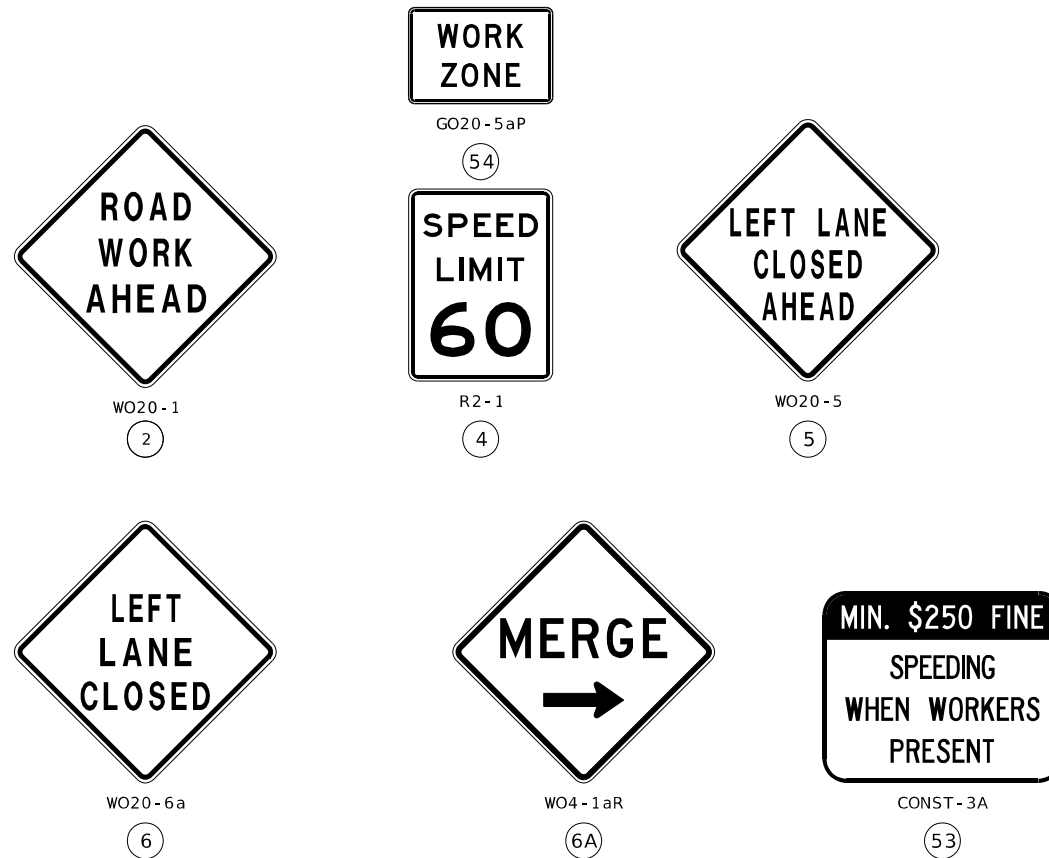
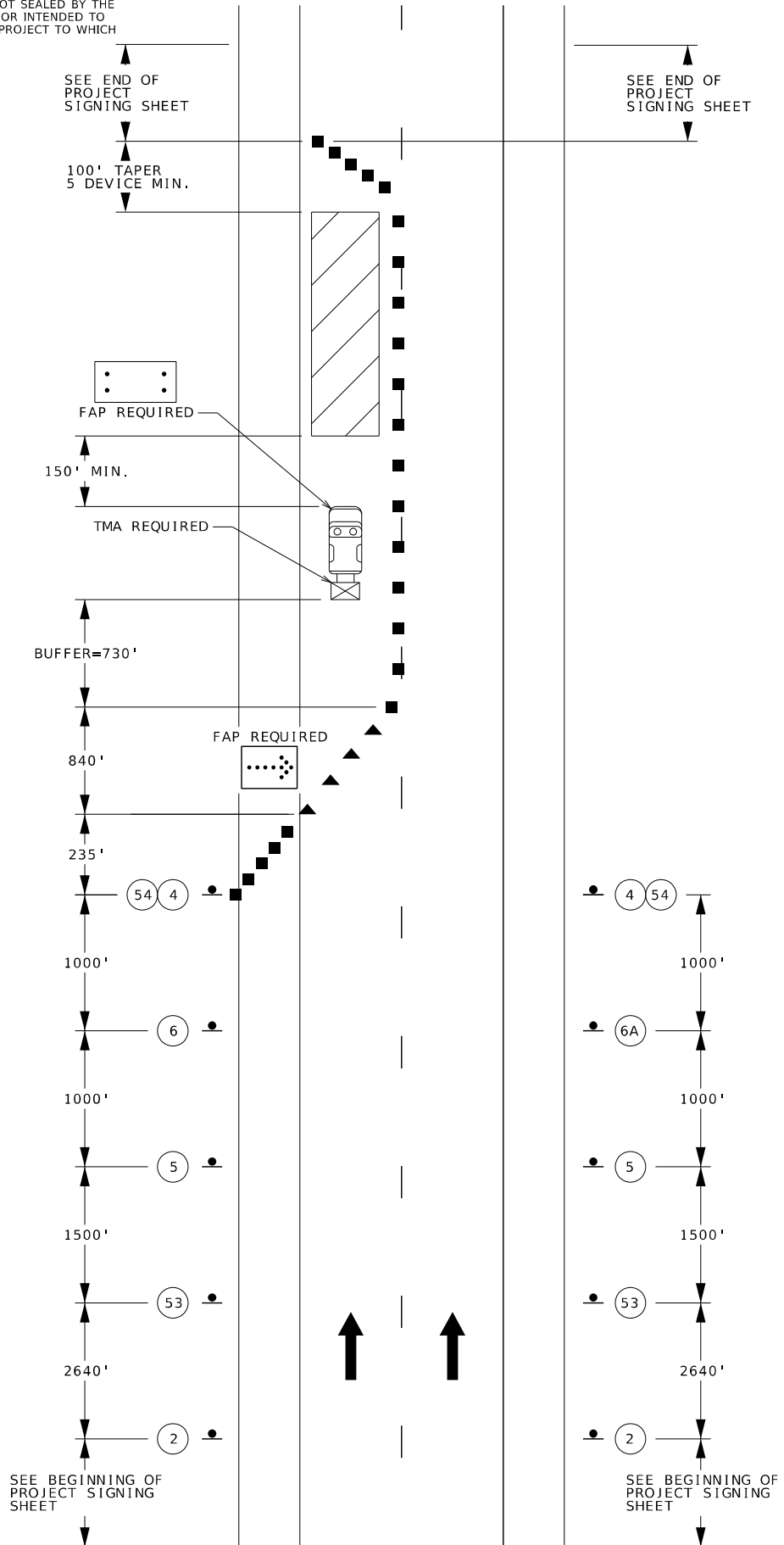
AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

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.

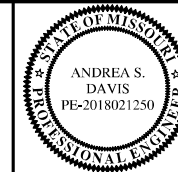
CHANNELIZER SPACING:

TAPERS: 60'  
BUFFER/WORK AREAS: 120'



NOT TO SCALE

TRAFFIC CONTROL  
SHEET 4 OF 7



11/10/2025 1:00:17 PM  
Andrea S. Davis - Civil  
MO PE-2018021250

DATE PREPARED  
11/10/2025

ROUTE 7	STATE MO
DISTRICT CD	SHEET N 9

COUNTY  
PULASKI

JOB NO.  
JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



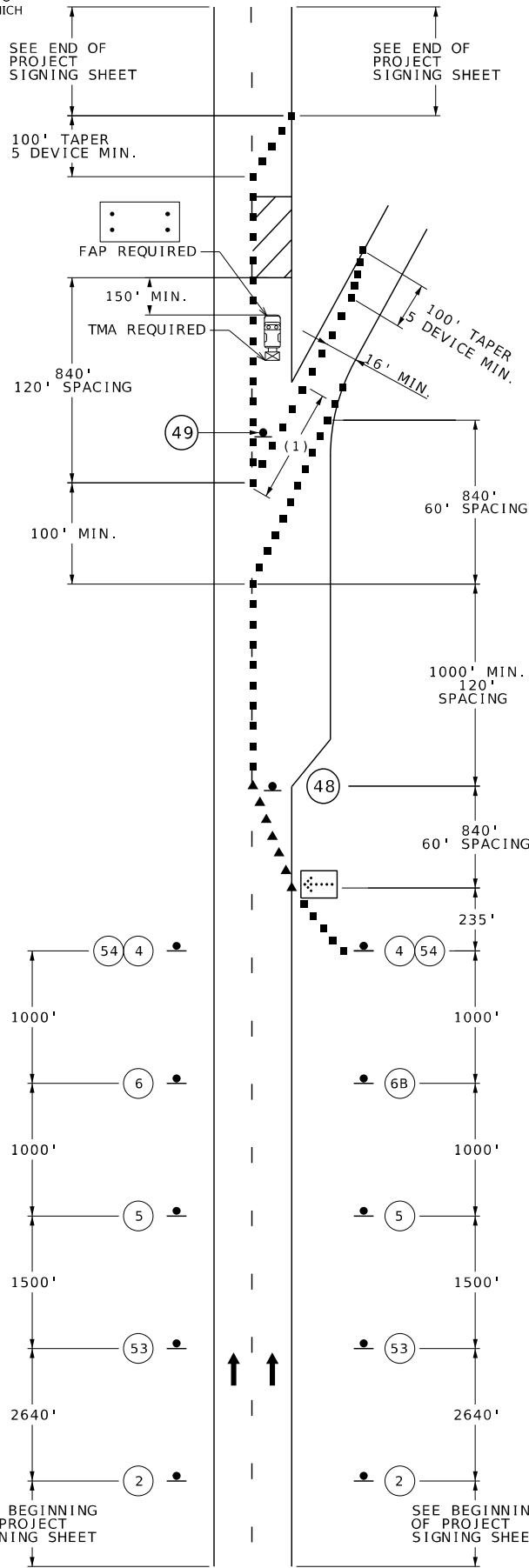
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102

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

[illegible]

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BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH  
THIS PAGE REFERS.

STATIONARY WORK IN VICINITY OF AN EXIT RAMP



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.

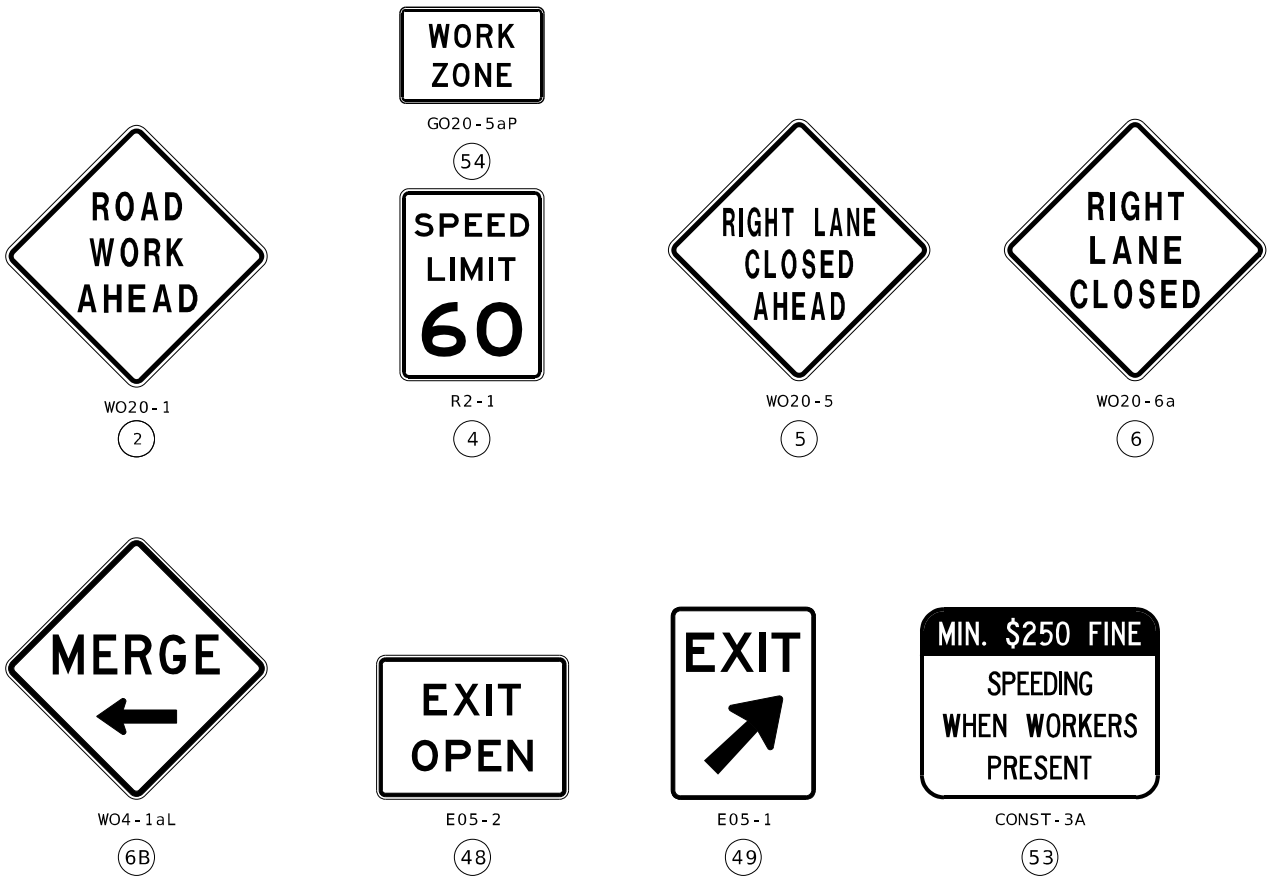
(1) FIVE DEVICE MINIMUM.

CHANNELIZER SPACING:

TAPERS: 60'  
BUFFER/WORK AREAS: 120'

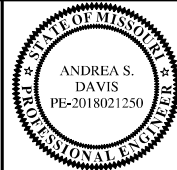
TRAFFIC CONTROL LEGEND

- 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



NOT TO SCALE

TRAFFIC CONTROL  
SHEET 5 OF 7



11/10/2025 1:00:20 PM  
Andrea S. Davis - Civil  
MO PE-2018021250

DATE PREPARED  
11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 10

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

HR GREEN, INC.

520 MARYVILLE CENTRE DRIVE, SUITE 100

ST. LOUIS, MISSOURI 63141

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## RAMP BY-PASS

## TRAFFIC CONTROL LEGEND

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

NOTES :

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

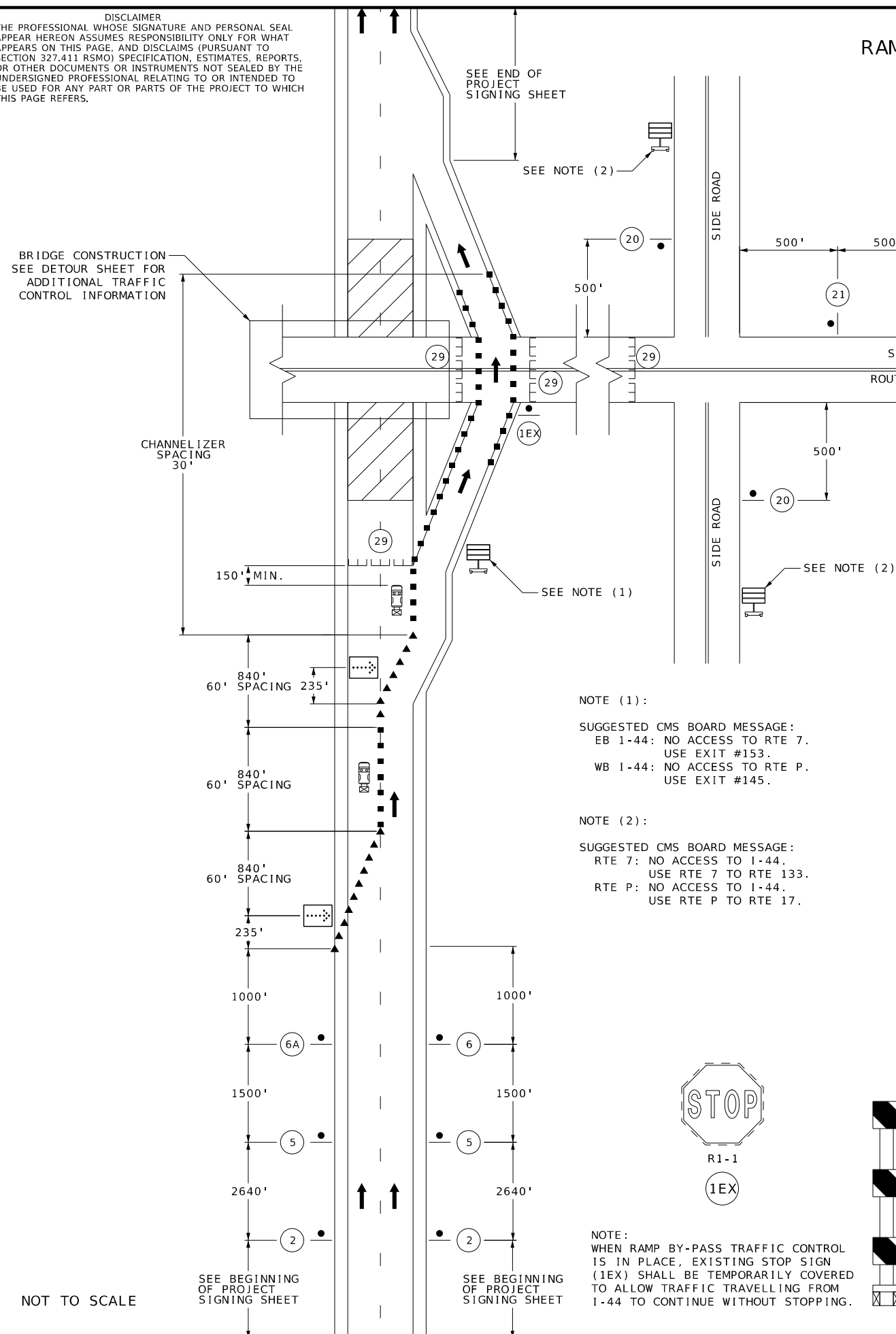
REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL FLASHING WARNING LIGHTS DURING NIGHTTIME OPERATIONS.

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'



WO20 - 6a

6



WO4 - 1 aR

(6A)



ROAD  
CLOSED

R11-2

(29)

- TYPE 3 MOVEABLE  
BARRICADE

TRAFFIC CONTROL  
SHEET 6 OF 7



Andrew St Davis

11/10/2025 1:00:03 PM  
Andrea S. Davis - Civ  
MO PE-2018021250

DATE PREPARED  
11/10/202

ROUTE	STA
-------	-----

7	M
STRICT	SHEET

CD	1
----	---

COUNTY  
PULASKI

JOB NO.  
LCD0031

JCD0031

---

CONTRACT ID.

PROJECT NO. \_\_\_\_\_

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE \_\_\_\_\_

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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



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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.

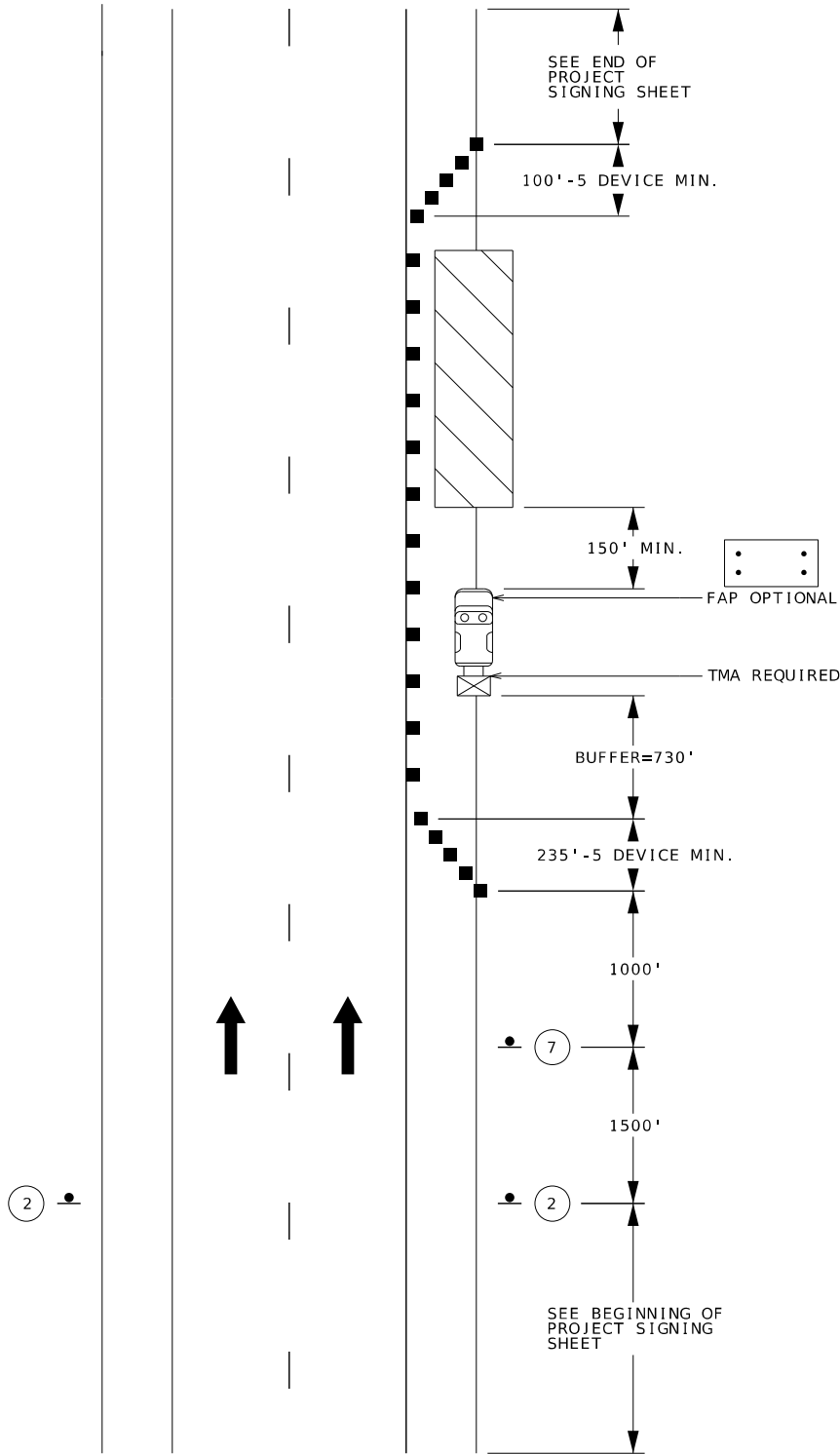
REDUCED SPEED LIMIT SIGNING SHALL BE REMOVED, COVERED, OR TURNED FROM TRAFFIC WHEN CONDITIONS REQUIRING THE REDUCED SPEED NO LONGER EXIST.

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

CHANNELIZER SPACING:

TAPERS: 60'  
BUFFER/WORK AREAS: 120'



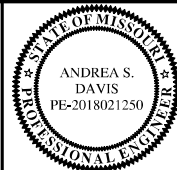
WO20-1  
2



WO21-5  
7

NOT TO SCALE

TRAFFIC CONTROL  
SHEET 7 OF 7



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Andrea S. Davis - Civil  
MO PE-2018021250

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11/10/2025

ROUTE 7 STATE MO

DISTRICT CD SHEET NO. 12

COUNTY  
PULASKI

JOB NO.  
JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

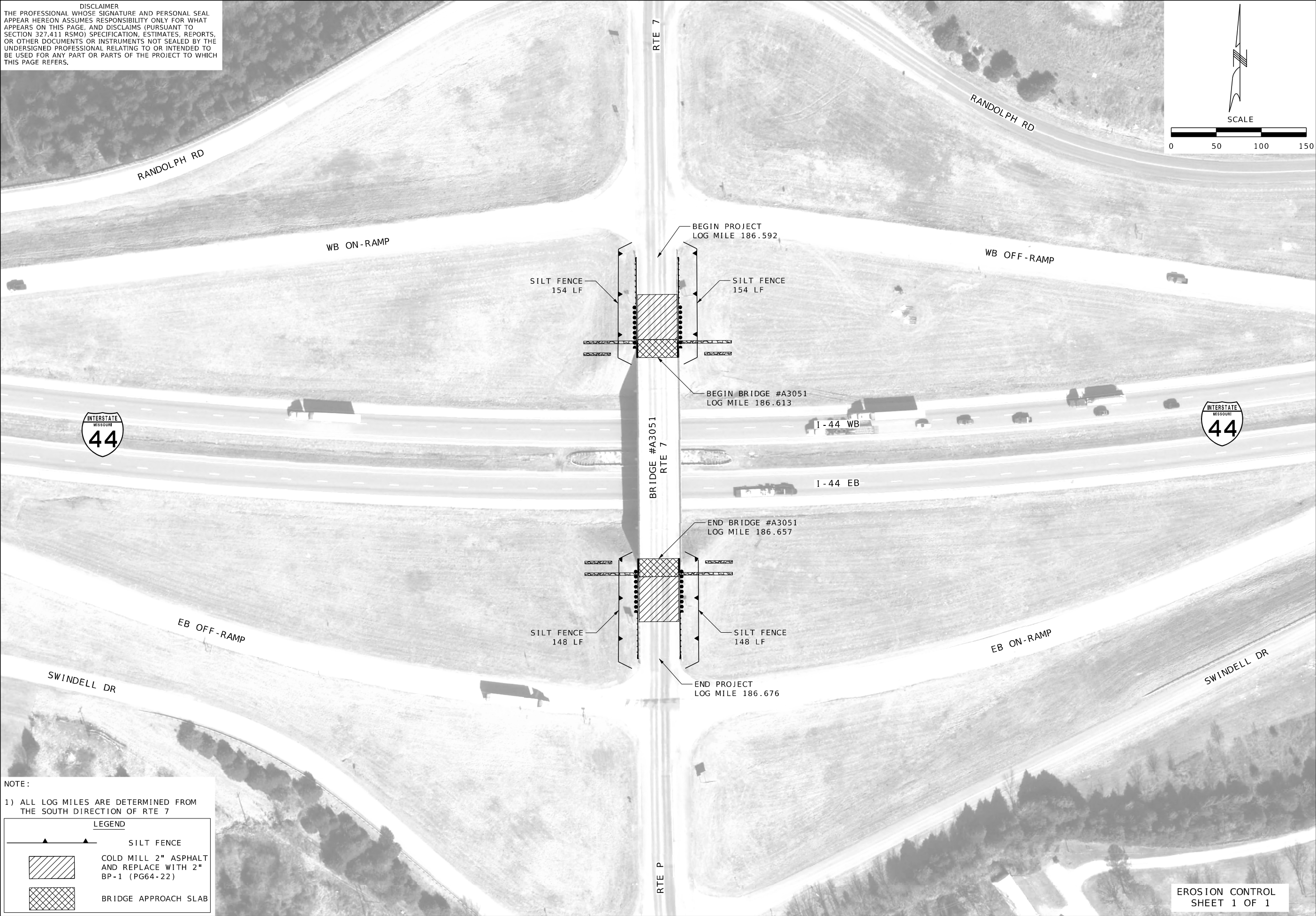
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

HR GREEN, INC.  
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NOTE:  
1) ALL LOG MILES ARE DETERMINED FROM  
THE SOUTH DIRECTION OF RTE 7

LEGEND

	SILT FENCE
	COLD MILL 2" ASPHALT AND REPLACE WITH 2" BP-1 (PG64-22)
	BRIDGE APPROACH SLAB

SCALE

0 50 100 150

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ROUTE	STATE
7	MO
DISTRICT	SHEET NO.
CD	13
COUNTY	
PULASKI	
JOB NO.	
JCD0031	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

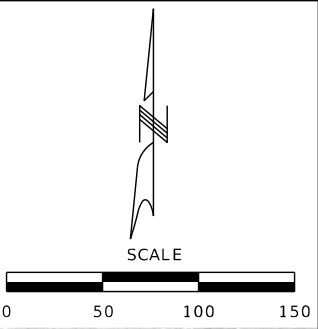
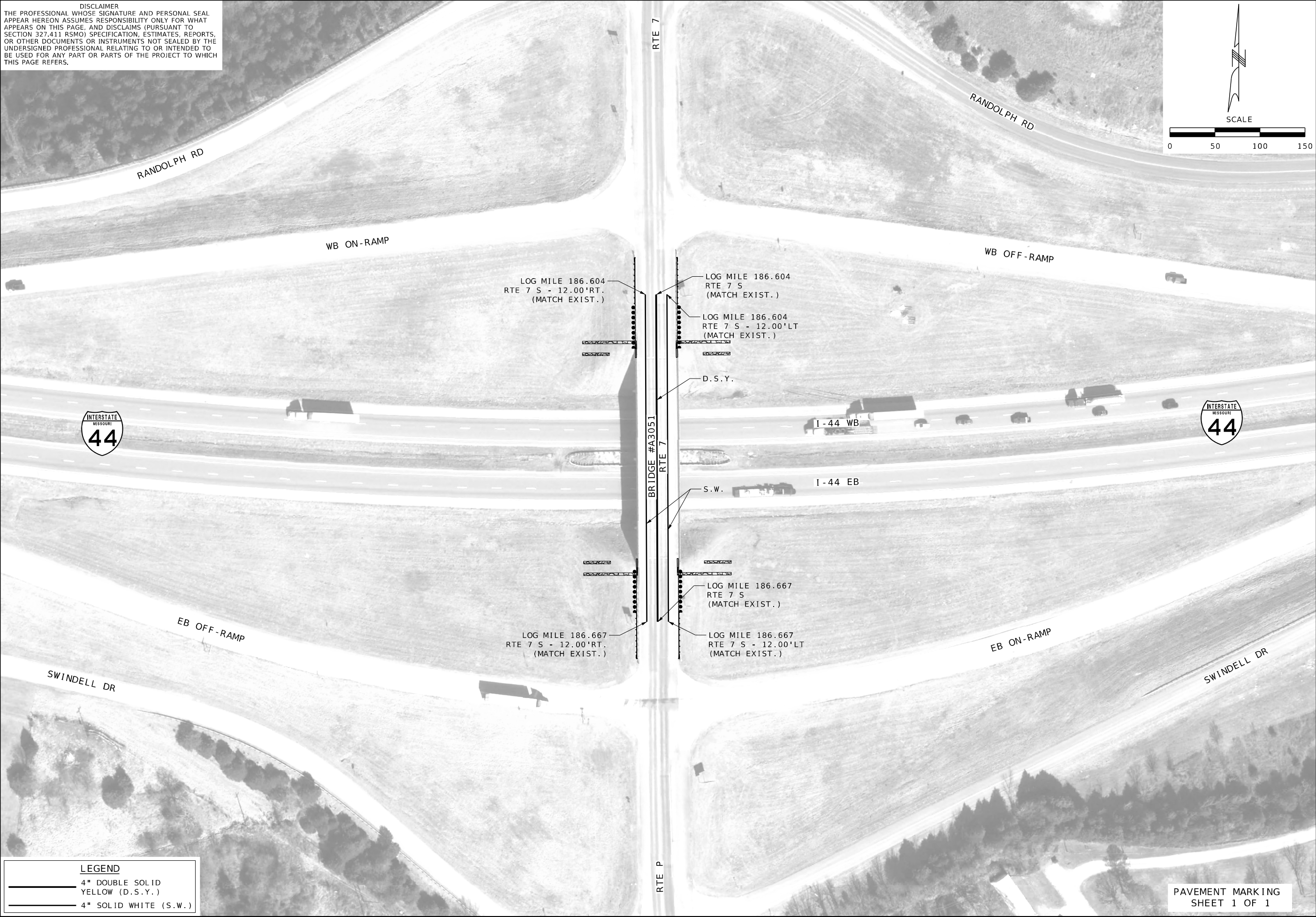
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EROSION CONTROL  
SHEET 1 OF 1



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ROUTE	STATE
7	MO
DISTRICT	SHEET NO.
CD	14

COUNTY  
PULASKI

JOB NO.  
JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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LEGEND  
4" DOUBLE SOLID  
YELLOW (D.S.Y.)  
4" SOLID WHITE (S.W.)

PAVEMENT MARKING  
SHEET 1 OF 1

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





DATE PREPARED 11/10/2025	
ROUTE 7	STATE MO
DISTRICT BR	SHEET NO. 1
COUNTY PULASKI	
JOB NO. JCD0031	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A30511	

DATE	DESCRIPTION

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**HRGreen**

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 2	Span 3	Span 3	Span 4
26'-0"	18'-0"	22'-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.

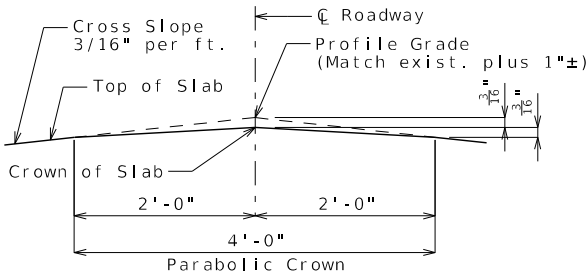
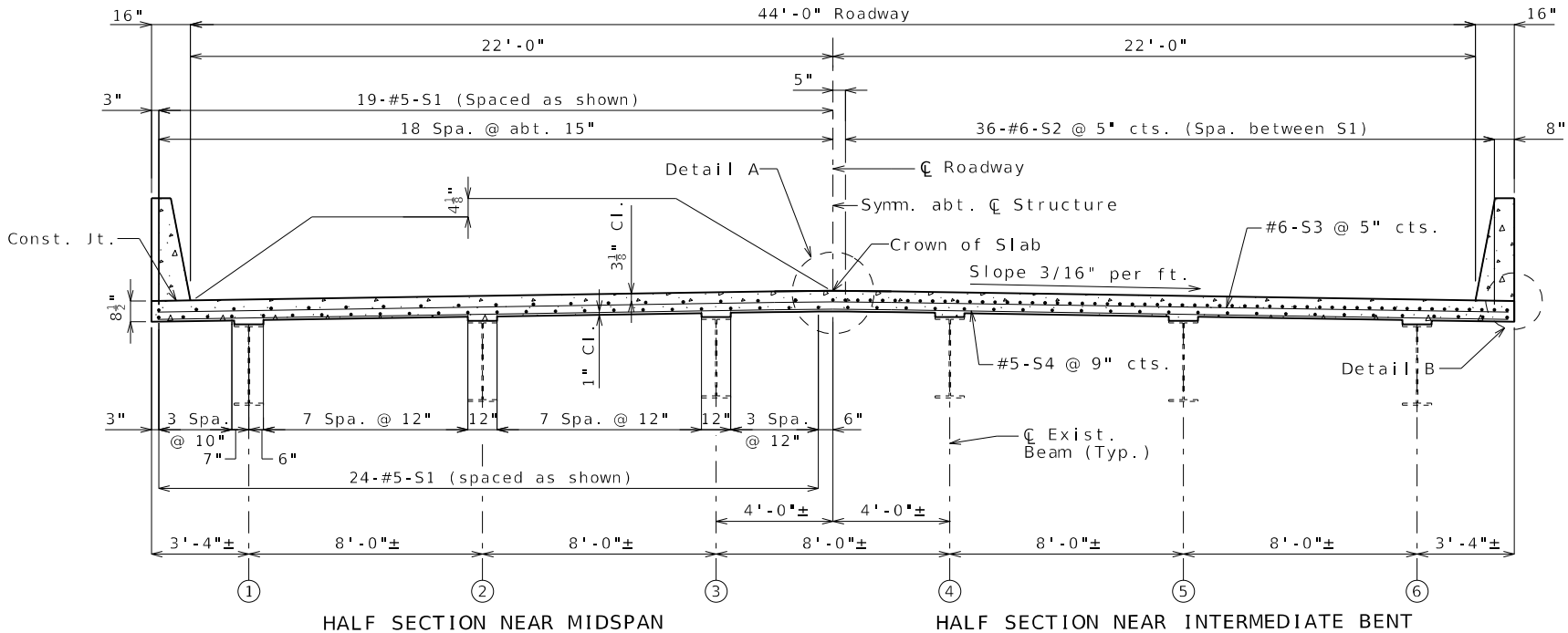
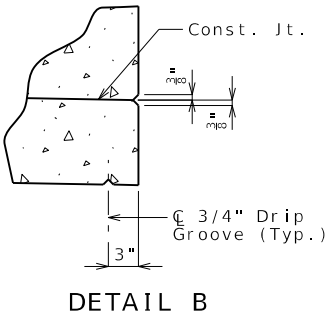
Contractor shall verify all dimensions in field before finalizing the shop drawings.

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.



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

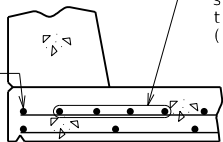
Estimated Quantities		
Item		Total
Removal of Miscellaneous ACM (Non-Friable)	sq. foot	21
Removal of Existing Bridge Deck	sq. foot	10,422
Bridge Approach Slab (Minor)	sq. yard	198
Slab on Steel	sq. yard	1,158
Type D Barrier	linear foot	487
Substructure Repair (Unformed)	sq. foot	20
Protective Coating - Concrete Bents and Piers (Epoxy)	lump 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	lump sum	1
Temporary Falsework	lump 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.

Contractor may shift or swap bars as needed to tie R3 bar in barrier (4" min. bar spacing)

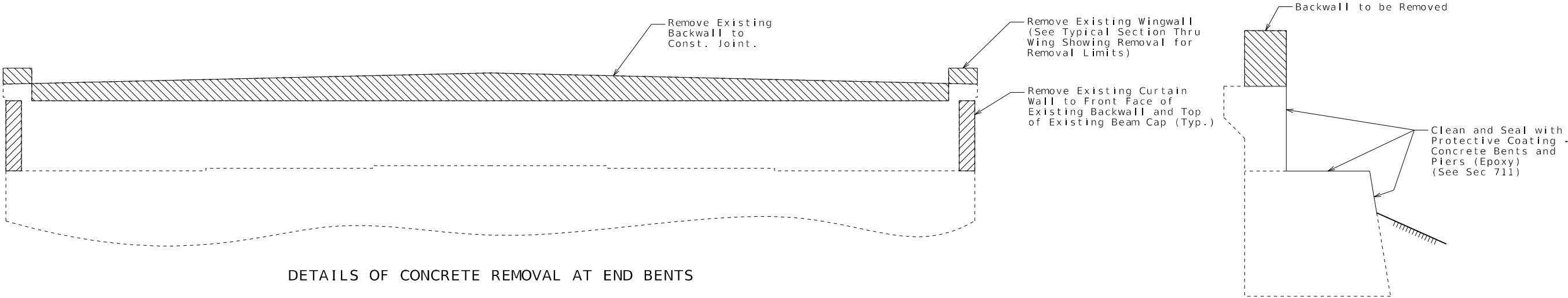


OPTIONAL SHIFTING TOP BARS AT BARRIER

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.

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

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:

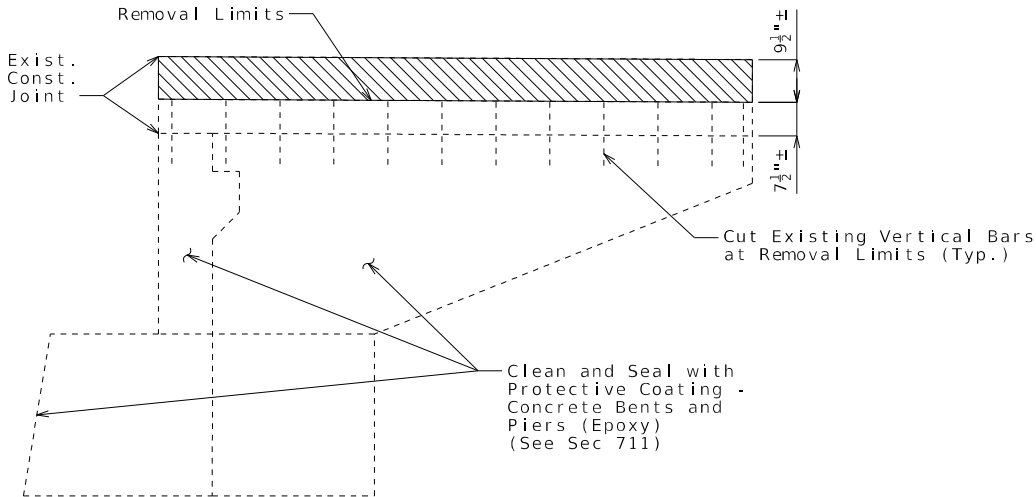
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

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

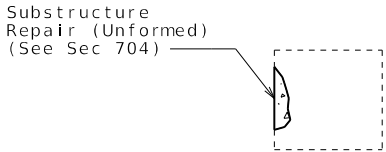
Prime Coat (New Steel): The cost of the inorganic zinc prime coat will be considered completely covered by the contract unit price for the fabricated structural steel.

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 (Sytem 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).

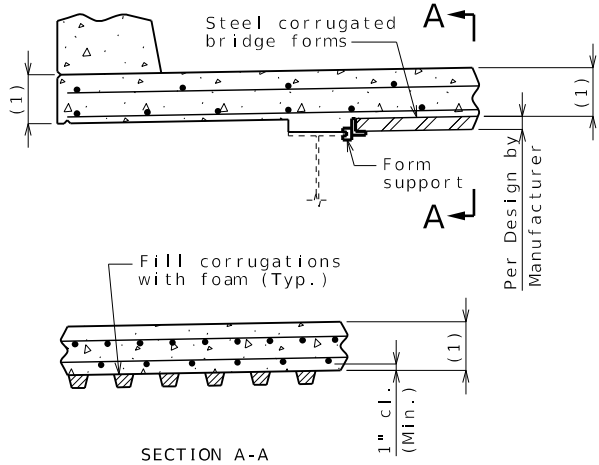
At the option of the contractor, the intermediate field coat and finish field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs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



TYPICAL ELEVATION OF WING SHOWING REMOVAL AND PROTECTIVE COATING



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



OPTIONAL STAY-IN-PLACE FORM DETAILS

NOTES AND REHABILITATION 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

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

HR GREEN, INC.  
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CORPORATE LICENSE #2002006608

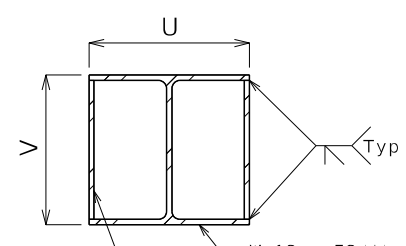
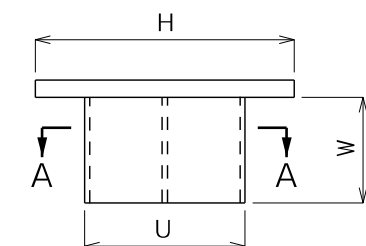
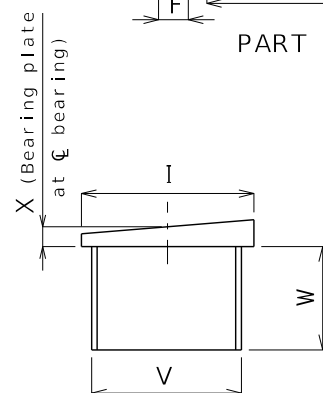
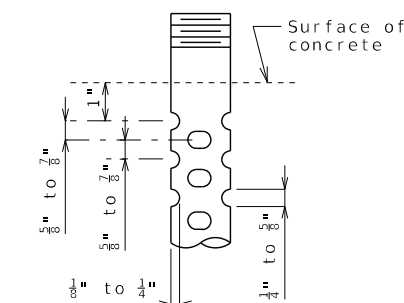
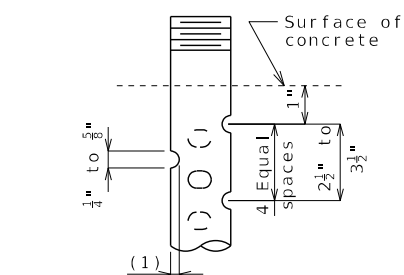
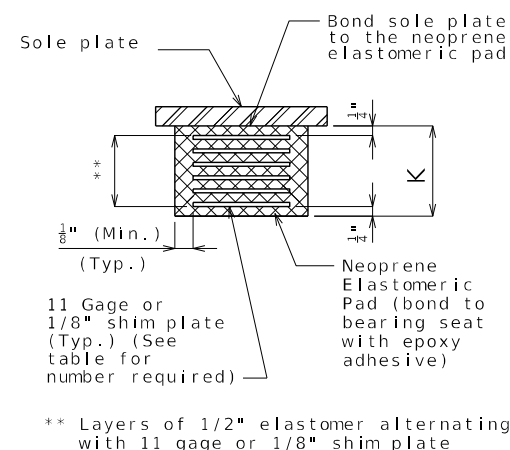
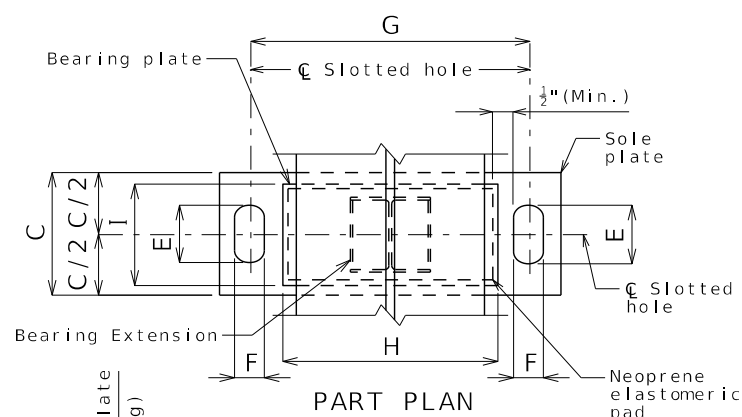
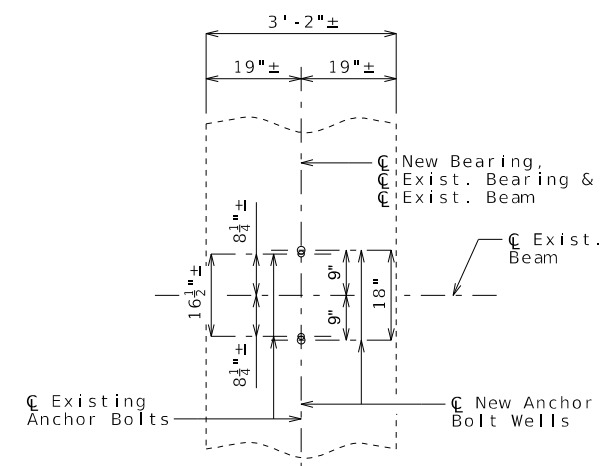
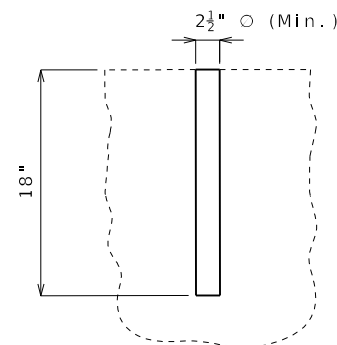
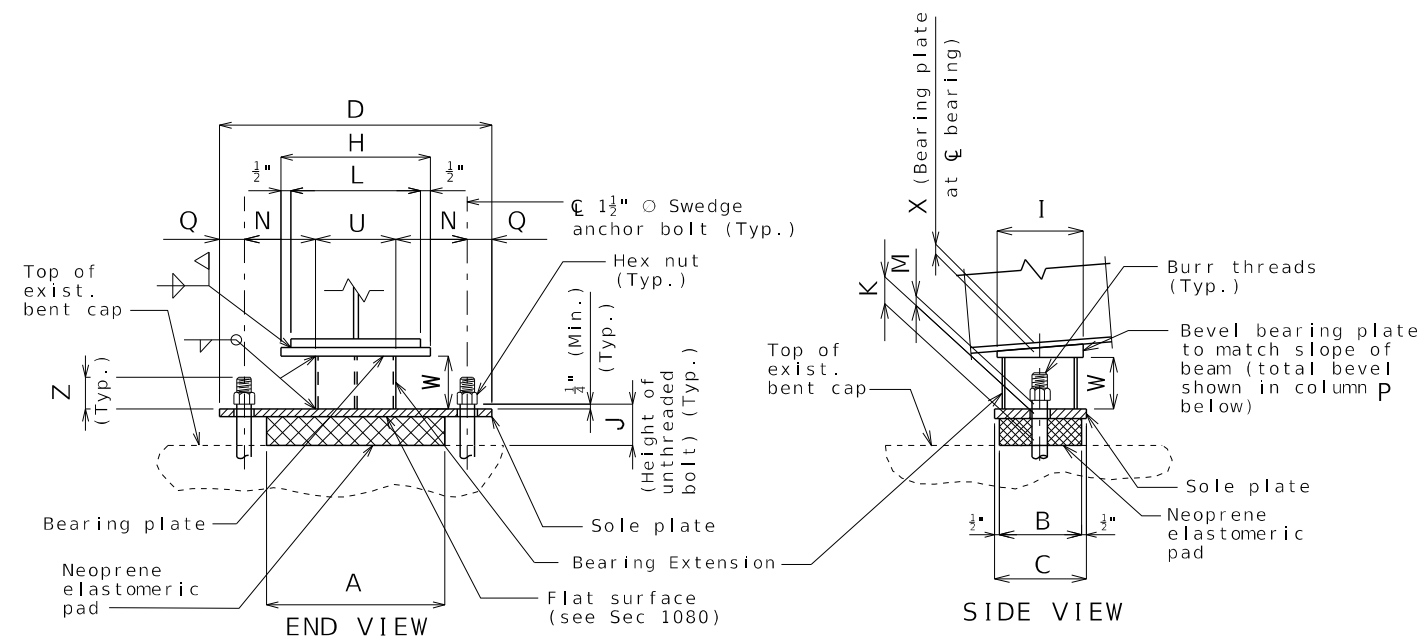












GENERAL NOTES:

Existing anchor bolts shall be cored, removed and replaced with the new anchor bolts shown.

Anchor bolts shall be 1 1/2"  $\varnothing$  ASTM F1554 Grade 55 swedged bolts and shall extend T into the concrete with ASTM A563 Grade A Hex or Heavy Hex nuts. Actual manufacturer's certified mill test reports (chemical and mechanical) shall be provided. Swedging shall be 1" less than extension into the concrete.

Anchor bolts shall be at the center line of slotted hole at 60°F. Bearing position shall be adjusted **R** for each 10°F fall or rise in temperature at installation.

Anchor bolts and heavy hex nuts 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 AASTHO M 232 (ASTM A153), Class C.

Neoprene Elastomeric Pads shall be 60 Durometer.

Structural steel for sole plate, bearing plate & bearing extension shall be ASTM A709 Grade 50 and 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.

Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.

Existing anchor bolts shall be cored, removed and replaced with the new anchor bolts shown.

All substructure repair shall be completed before the new bearings are installed.

Cost of removing existing bearings and anchor bolts will be considered completely covered by the contract unit price for Reconfigure Existing Structural Steel.

Cost of anchor bolts, drilling, grouting and bearing extensions, complete in place, will be considered completely covered by the contract unit price for Laminated Neoprene Bearing Pad Assembly.

EXPANSION BEARINGS																									NUMBER OF SHIM PLATES *	NUMBER REQUIRED
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			
2	14"	14"	15"	22½"	4½"	1½"	18"	13"	13½"	4½"	2½"	12"	1½"	3"	0"	2½"	1½"	15"	12"	12½"	4½"	1½"	2½"	4	6	
4	14"	14"	15"	22½"	4½"	1½"	18"	13"	13½"	4½"	2½"	12"	1½"	3"	0"	2½"	1½"	15"	12"	12½"	4½"	1½"	2½"	4	6	
* The required shim plate shall be placed between																							TOTAL BEARINGS	12		

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

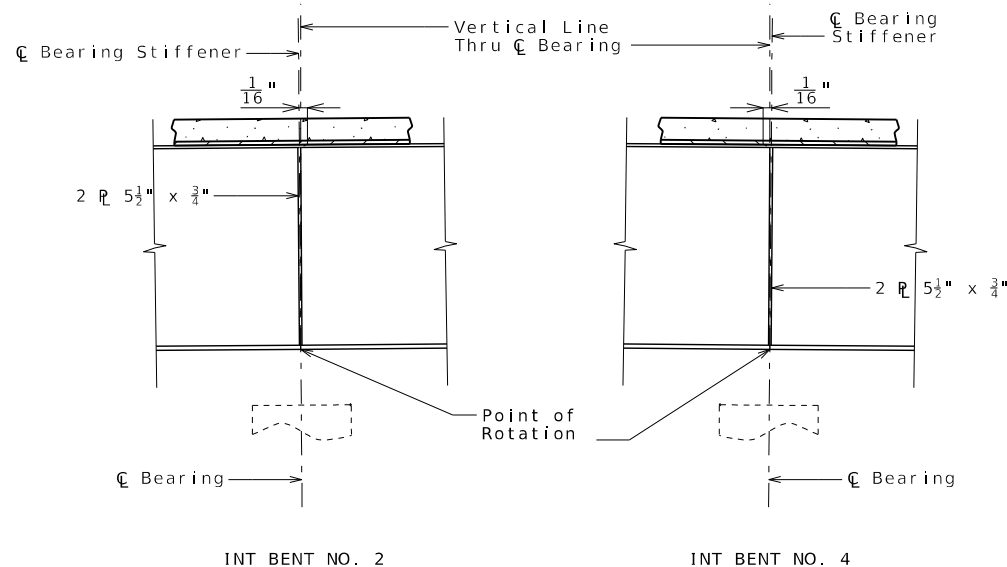
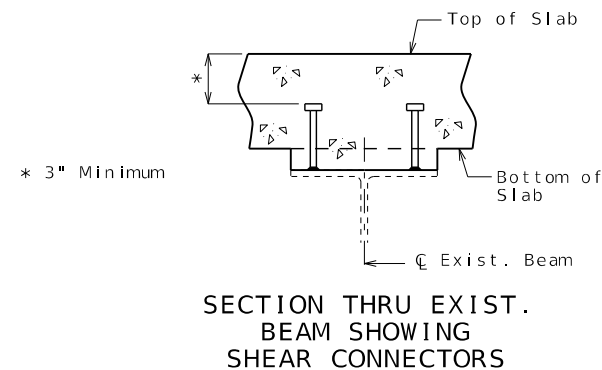
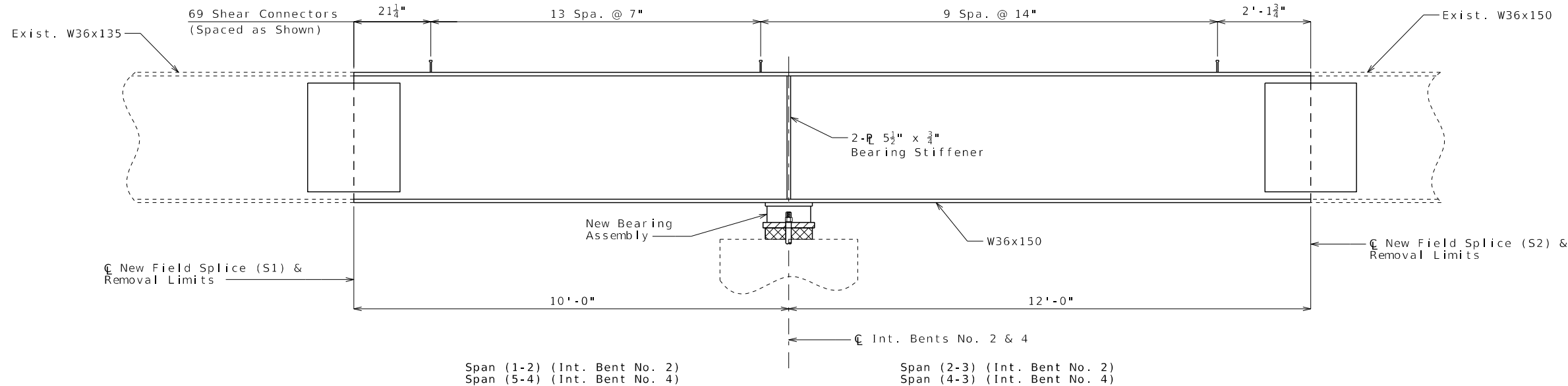
\*\*\* Equivalent size plates may be welded together to substitute for the W12x72 rolled section.

### DETAILS OF LAMINATED NEOPRENE BEARING PAD ASSEMBLY AT INT. BENTS NO. 2 & 4

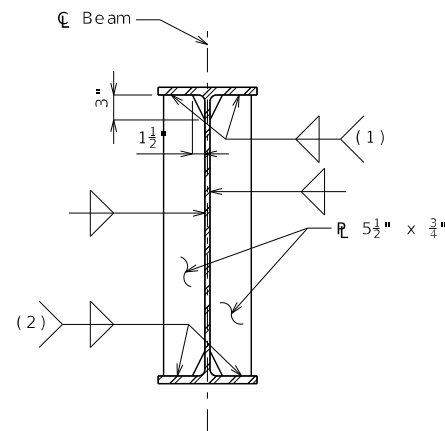
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 15



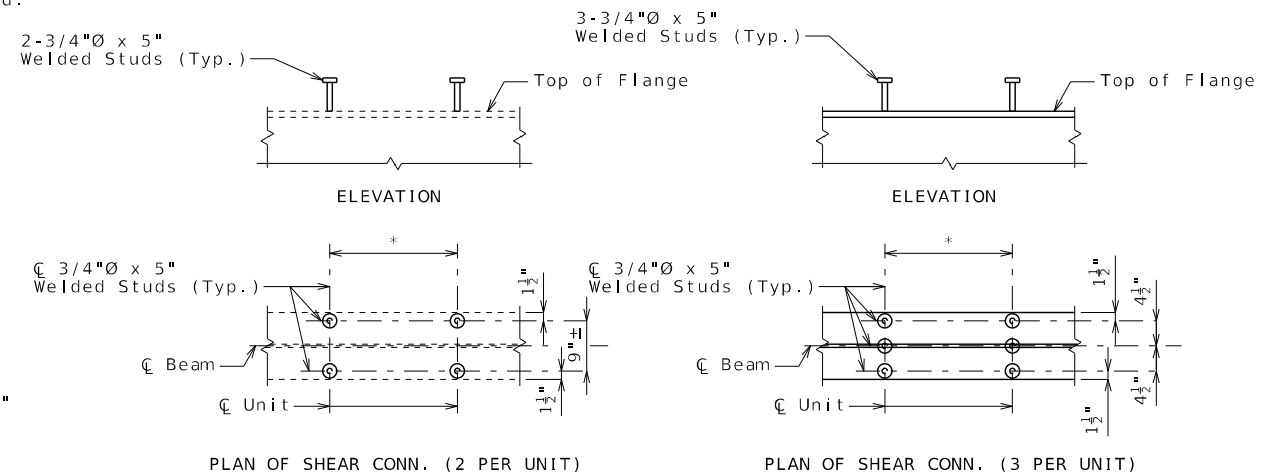


**PART ELEVATION OF PROPOSED BEAMS  
SHOWING RECONFIGURATION**  
Int. Bent No. 2 shown, Int. Bent No. 4  
similar, opposite hand.



**BEARING STIFFENER  
WELDING DETAILS**

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



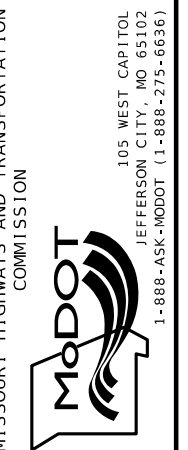
**DETAILS OF SHEAR CONNECTORS**

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.



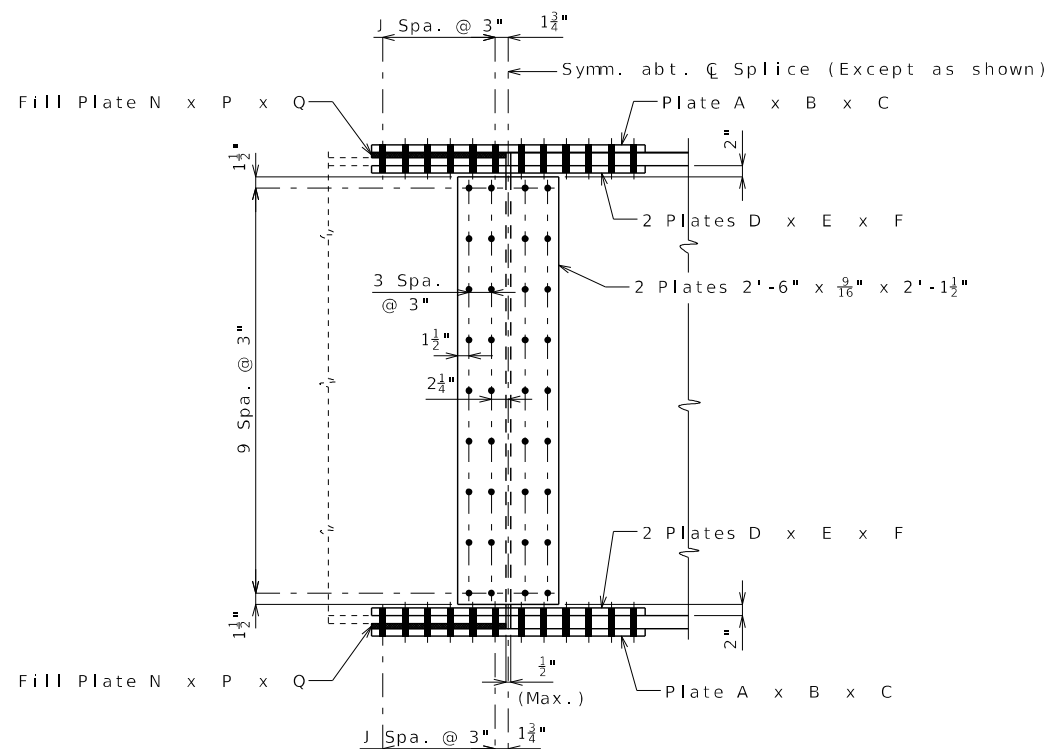
DATE PREPARED 11/10/2025	
ROUTE 7	STATE MO
DISTRICT BR	SHEET NO. 8
COUNTY PULASKI	
JOB NO. JCD0031	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A30511	

DESCRIPTION	DATE



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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.

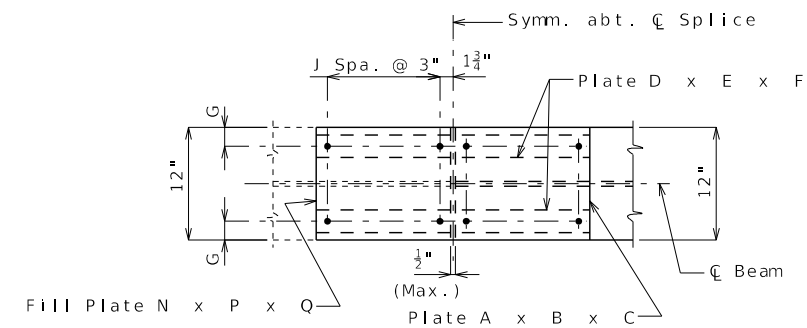
Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

Note:

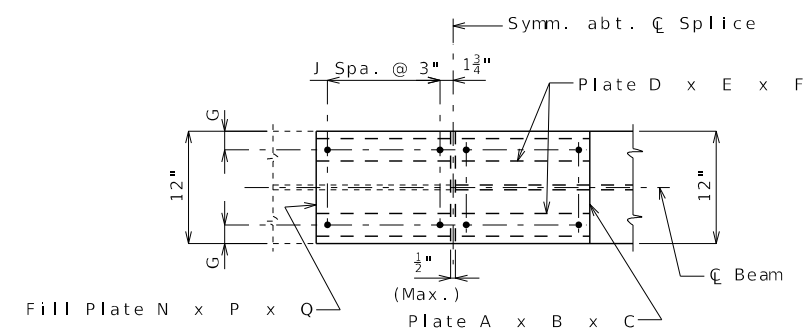
The cost of all splice materials, including any plates, bolts, nuts, and washers, shall be considered completely covered by the contract unit price per pound for Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50.

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.



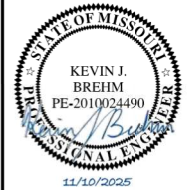
PLAN OF FLANGE  
S1 & S2 (TOP)



PLAN OF FLANGE  
S1 & S2 (BOTTOM)

[illegible]

## FIELD SPLICE DETAILS



DATE PREPARED  
11/10/2025

ROUTE 7	STATE MO
------------	-------------

DISTRICT	SHEET NO.
BR	9

COUNTY  
PULASKI

JOB NO.  
JCD0031

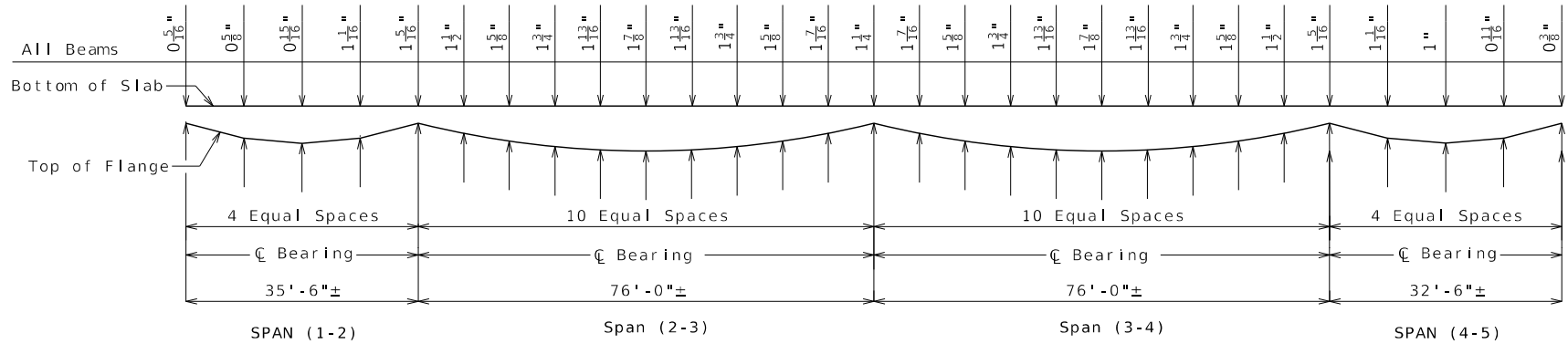
CONTRACT ID.
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PROJECT NO.
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BRIDGE NO.  
A30511[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

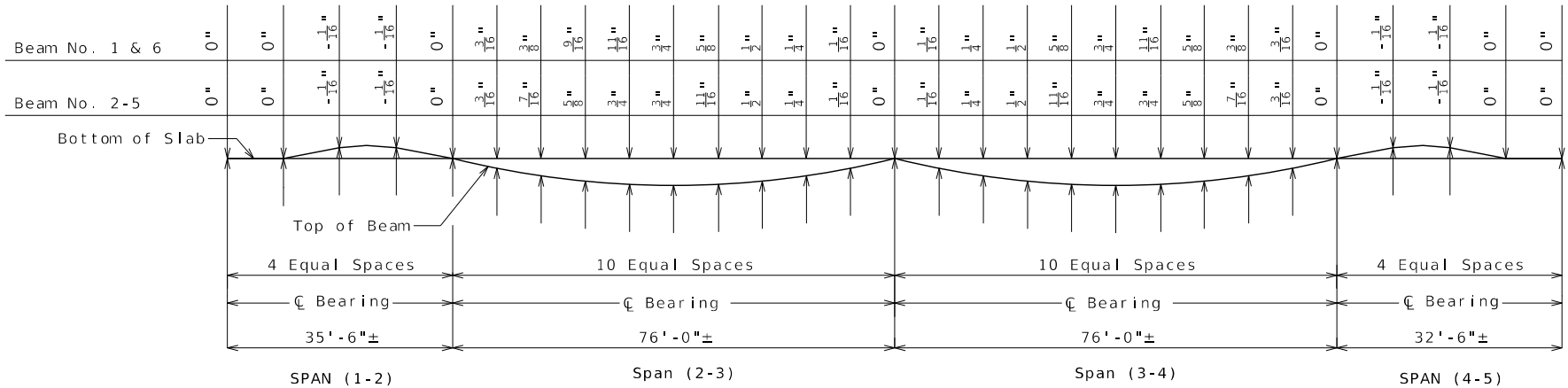




THEORETICAL SLAB HAUNCHING DIAGRAM

In order to maintain minimum slab thickness, an adjustment of the slab haunches, an increase in slab thickness or a raise in grade uniformly throughout the structure shall be necessary. No payment will be made for additional labor or materials required for variation in haunching, slab thickness or grade adjustment.

Concrete in the slab haunches is included in the Estimated Quantities for Slab on Steel.



DEAD LOAD DEFLECTION

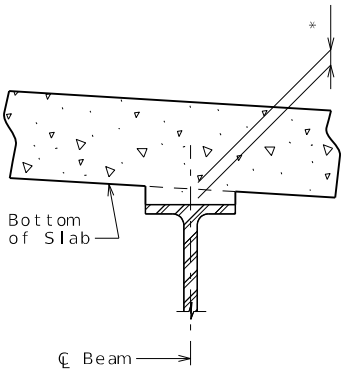
14.3% of dead load deflection is due to the weight of structural steel.

Dead load deflection includes weight of structural steel, concrete slab, and barrier.

Theoretical Bottom of Slab Elevations at Centerline of Beam (Prior to Forming for Slab) **																
Beam Number	Span (1-2) (35'-6"± C Brg. - C Brg.)					Span (2-3) (76'-0"± C Brg. - C Brg.)										
	C Brg.	.25	.50	.75	C Brg.	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
1	1170.35	1170.40	1170.45	1170.49	1170.52	1170.52	1170.53	1170.54	1170.55	1170.56	1170.57	1170.59	1170.62	1170.64	1170.66	1170.67
2	1170.47	1170.52	1170.57	1170.61	1170.65	1170.65	1170.66	1170.66	1170.67	1170.68	1170.69	1170.72	1170.74	1170.77	1170.79	1170.79
3	1170.60	1170.65	1170.70	1170.74	1170.77	1170.77	1170.78	1170.79	1170.79	1170.80	1170.82	1170.84	1170.87	1170.89	1170.91	1170.92
4	1170.60	1170.65	1170.70	1170.74	1170.77	1170.77	1170.78	1170.79	1170.79	1170.80	1170.82	1170.84	1170.87	1170.89	1170.91	1170.92
5	1170.47	1170.52	1170.57	1170.61	1170.65	1170.65	1170.66	1170.66	1170.67	1170.68	1170.69	1170.72	1170.74	1170.77	1170.79	1170.79
6	1170.35	1170.40	1170.45	1170.49	1170.52	1170.52	1170.53	1170.54	1170.55	1170.56	1170.57	1170.59	1170.62	1170.64	1170.66	1170.67
Beam Number	Span (3-4) (76'-0"± C Brg. - C Brg.)										Span (4-5) (32'-6"± C Brg. - C Brg.)					
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	C Brg.	C Brg.	.25	.50	.75	C Brg.	
1	1170.67	1170.66	1170.64	1170.62	1170.59	1170.57	1170.56	1170.55	1170.54	1170.53	1170.52	1170.49	1170.45	1170.41	1170.36	
2	1170.79	1170.79	1170.77	1170.74	1170.72	1170.69	1170.68	1170.67	1170.66	1170.66	1170.65	1170.65	1170.62	1170.58	1170.54	1170.49
3	1170.92	1170.91	1170.89	1170.86	1170.84	1170.82	1170.80	1170.79	1170.79	1170.78	1170.77	1170.77	1170.74	1170.70	1170.66	1170.61
4	1170.92	1170.91	1170.89	1170.86	1170.84	1170.82	1170.80	1170.79	1170.79	1170.78	1170.77	1170.77	1170.74	1170.70	1170.66	1170.61
5	1170.79	1170.79	1170.77	1170.74	1170.72	1170.69	1170.68	1170.67	1170.66	1170.66	1170.65	1170.65	1170.62	1170.58	1170.54	1170.49
6	1170.67	1170.66	1170.64	1170.62	1170.59	1170.57	1170.56	1170.55	1170.54	1170.53	1170.52	1170.52	1170.49	1170.45	1170.41	1170.36

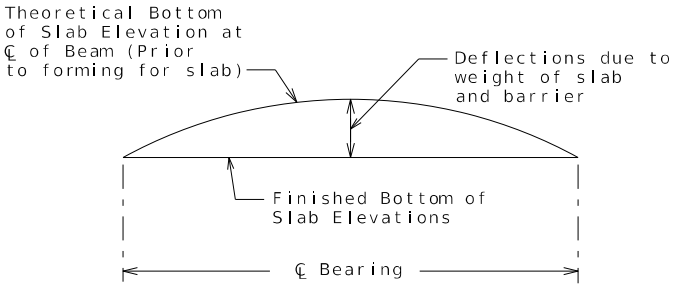
\*\* Elevations are based on a constant slab thickness of 8 1/2" and include allowance for theoretical dead load deflections due to weight of slab and barrier.

Note:  
All longitudinal dimensions are horizontal.



THEORETICAL SLAB HAUNCH

\* Dimension (bottom of slab to top of flange) may vary. No payment will be made for any adjustment in forming or additional concrete required for variation in haunching.



TYPICAL SLAB ELEVATIONS DIAGRAM



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	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

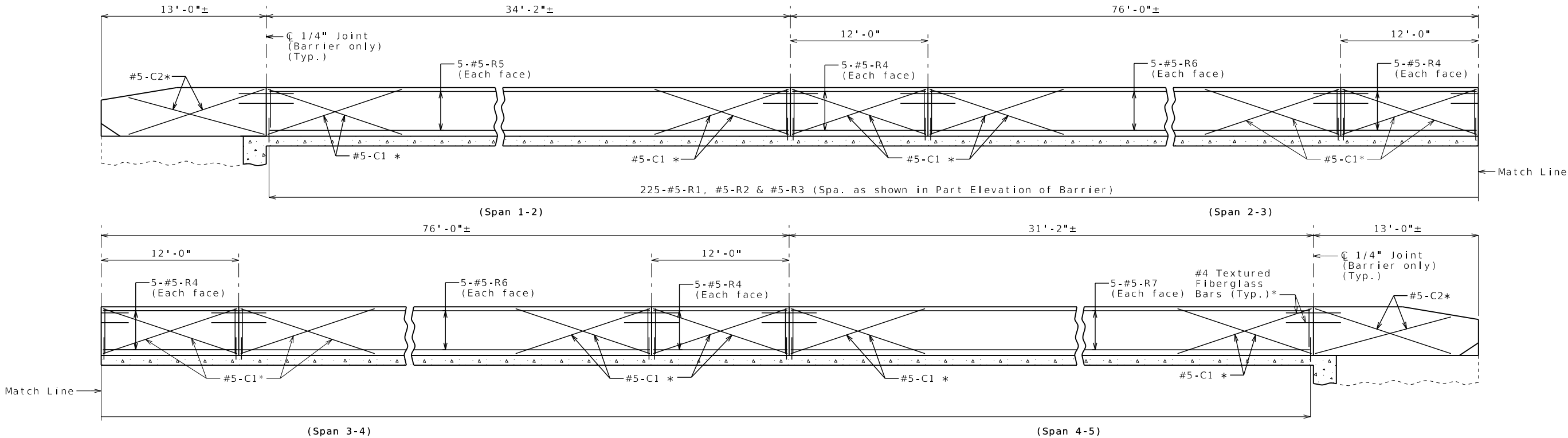
MoDOT

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

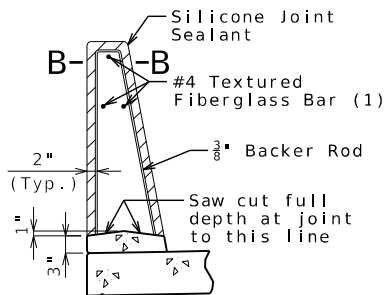
HR GREEN, INC.  
520 MARYVILLE CENTRE DRIVE,  
SUITE 100  
ST. LOUIS, MISSOURI 63141  
PHONE: (636) 519-0990  
CORPORATE LICENSE #200206608

HRGreen

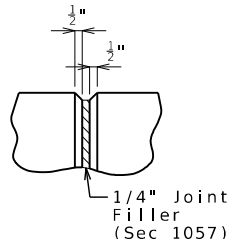




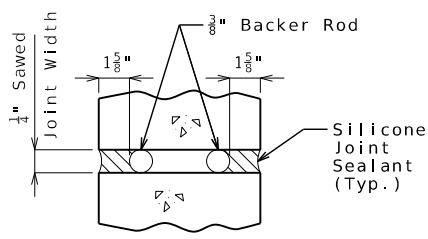
**ELEVATION OF BARRIER**  
(Left barrier shown, right barrier similar)  
Longitudinal dimensions are horizontal.



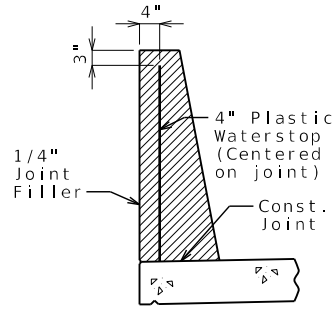
**SECTION THRU SAW CUT JOINT**



**PART ELEVATION AT FORMED JOINT**



**SECTION B-B**



**WATERSTOP DETAIL**

**General Notes:**

\* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

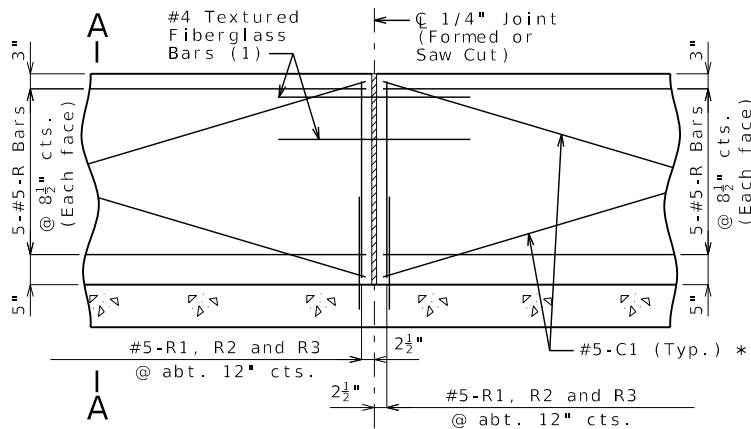
Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

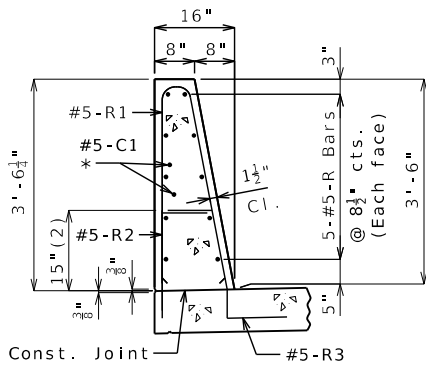
For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

Plastic waterstop shall not be used with saw cut joints.



**PART ELEVATION OF BARRIER**

(1) Four feet long, centered on joint, slip-formed option only

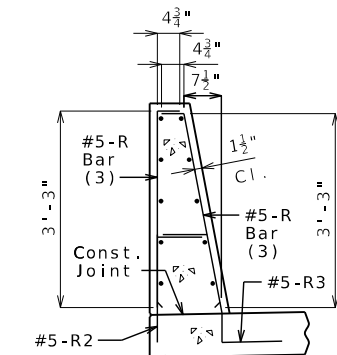


**SECTION A-A**

Use a minimum lap of 2'-6" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

(2) To top of bar



**R-BAR PERMISSIBLE ALTERNATE SHAPE**

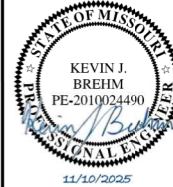
(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

**TYPE D BARRIER**

Sheet No. 11 of 15

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

Detailed Jun. 2025  
Checked Jun. 2025



DATE PREPARED  
11/10/2025

ROUTE 7 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY PULASKI

JOB NO. JCD0031

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A30511

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

MoDOT

HR GREEN, INC.

520 MARYVILLE CENTRE DRIVE,

SUITE 100

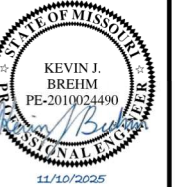
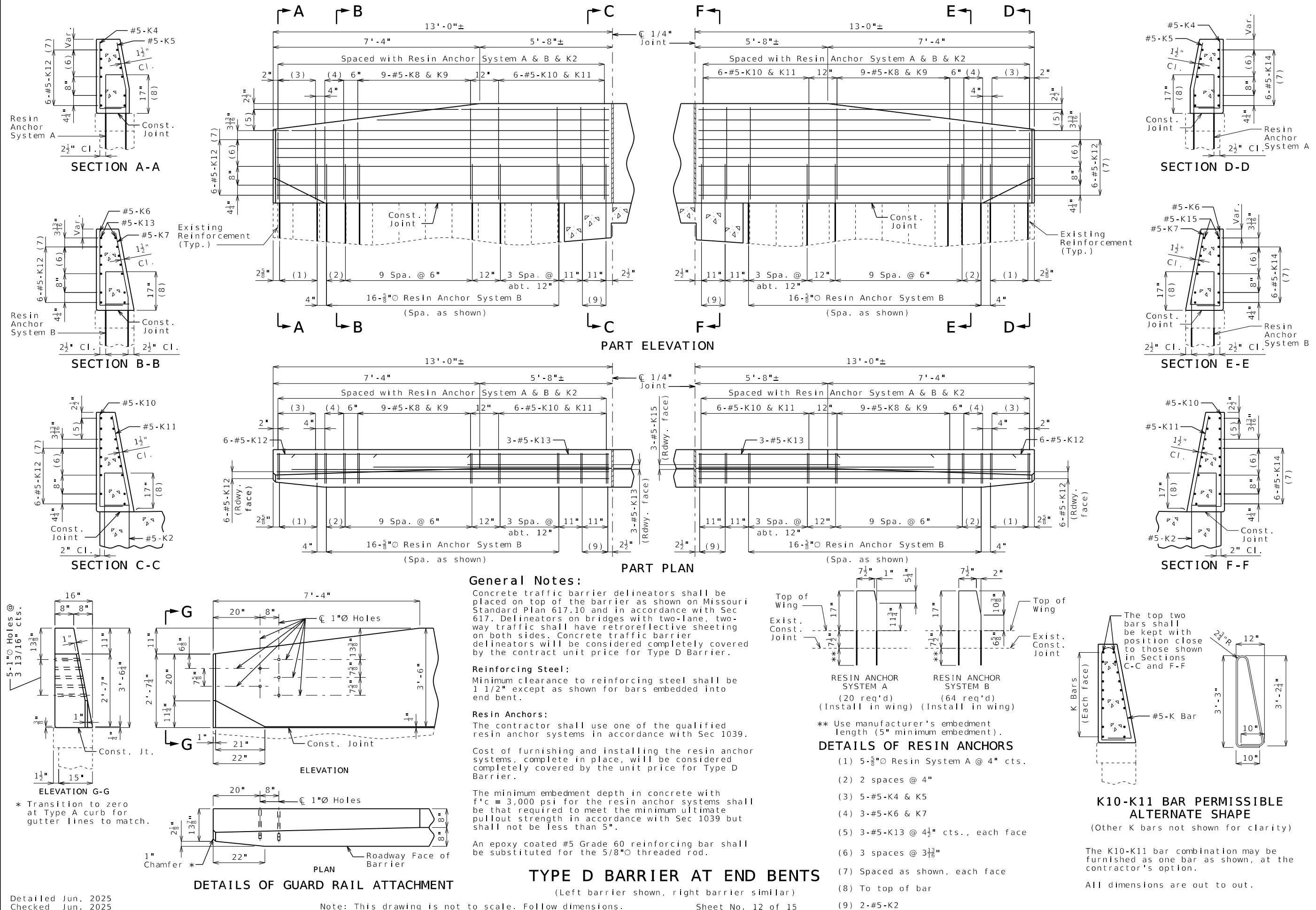
ST. LOUIS, MISSOURI 63141

PHONE: (636) 519-0990


CORPORATE LICENSE #200206608

HRGreen

11/10/2025



DATE PREPARED	
11/10/2025	
ROUTE	STATE
7	MO
DISTRICT	SHEET NO.
BR	12
COUNTY	
PULASKI	
JOB NO.	
JCD0031	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A30511	

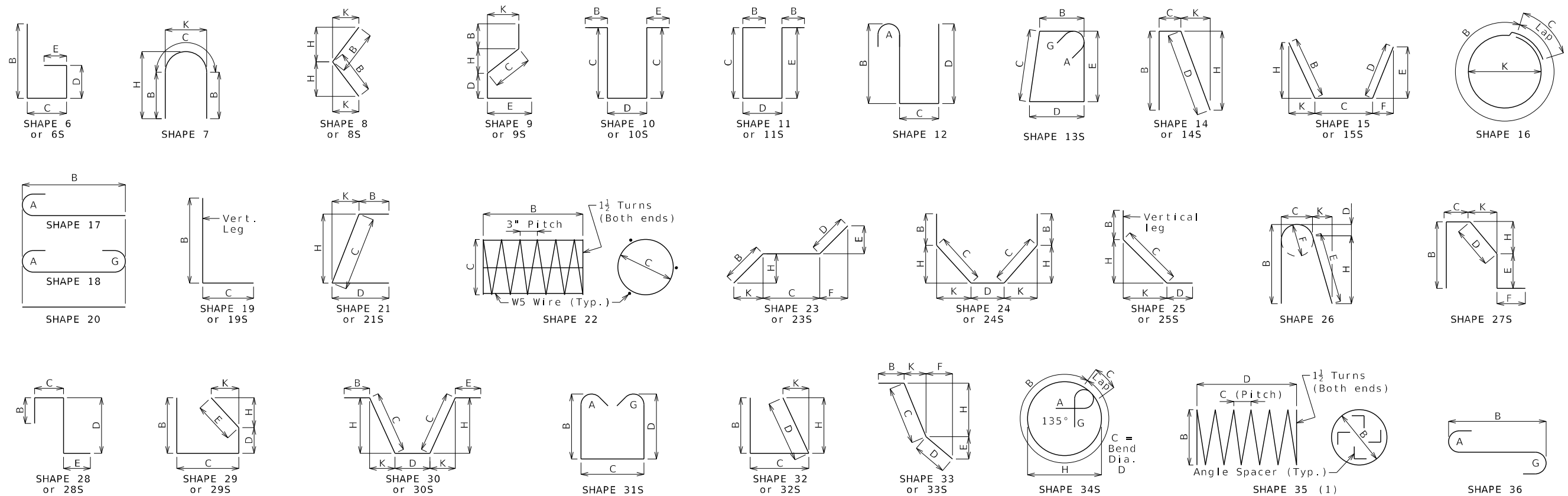
[illegible]

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

520 MARYVILLE CENTRE DRIVE,  
SUITE 100  
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PHONE: (636) 519.0990  
CORPORATE LICENSE #2002006608



\\hrgreen.com\hrg\Data\2022\2202603.03\CAD\Bridge\Plan\_Sheets\B\_A30511\_013\_JCD0031\_AppSlab.dgn 1:02:05 PM 11/13/2025



Finished Bend Dimensions D and Hook Dimensions						
Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	
#4	1	3"	8"	6"	4"	
#5	1	3 $\frac{3}{4}$ "	10"	7"	5"	
#6	1	4 $\frac{1}{4}$ "	12"	8 $\frac{1}{2}$ "	6"	
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"	
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 $\frac{1}{4}$ "	10"	
#9	1	9 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "	
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "	
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "	
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{5}{8}$ "	
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "	
Stirrup Pin Bend Shapes (S)						
Size	Case	D	A or G		H	J
			90°	135°	180°	135°
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{7}{8}$ "
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{3}{8}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	7"	3 $\frac{7}{8}$ "
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "
Applicable for all grades of steel.						
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.						

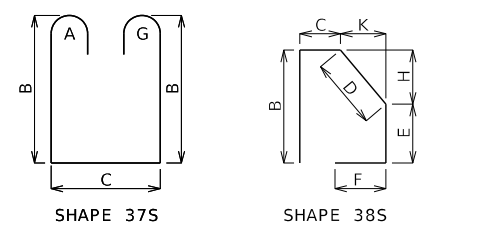
90°

180°

90°

135°

180°



## BENDING DIAGRAMS

All dimensions are out to out.

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

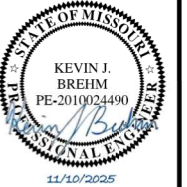
Unless otherwise noted,  
finished bending diameter  
D is the same for all  
bends of a shape.

(1) Shall be a deformed or plain spiral bar or wire.

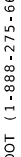
Four angle or channel spacers are required for each column spiral. Spacers are to be placed on inside of spirals. Length and weight of column spirals do not include splices or spacers.

		Reinforcing Steel Totals (Pounds)			
		Superstructure			Entire Bridge Epoxy
Size		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.



DATE PREPARED	
11/10/2025	
ROUTE	STATE
7	MO
DISTRICT	SHEET NO.
BR	14
COUNTY	
PULASKI	
JOB NO.	
JCD0031	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A30511	

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

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





Bill of Reinforcing Steel																					
No. Req.	Size/ Mark	Location	Codes			Dimensions							Nom. Length	Actual Length	Weight						
						B	C	D	E	F	H	K									
			C	SH	V	ft	in.	ft	in.	ft	in.	ft	in.	ft	in.	lb					
		Superstructure																			
		End Bents																			
		No. 1 & 5																			
24	6	H10	DIAPHRAGM	E	20	46	3.00							46	3	1,667					
6	5	H11	DIAPHRAGM	E	20	44	0.00							44	0	275					
8	6	H12	DIAPHRAGM	E	20	14	4.00							14	4	172					
4	6	H13	DIAPHRAGM	E	20	14	6.00							14	6	87					
12	5	H14	DIAPHRAGM	E	20	21	0.00							1	9	22					
88	5	H15	DIAPHRAGM	E	20	2	6.00							2	6	229					
118	6	U10	DIAPHRAGM	E	6S	4	8.00	1	0.00	8.00	11.00			7	3	1,196					
164	6	U11	DIAPHRAGM	E	10S			3	6.00	20.00				8	8	2,053					
36	6	V10	DIAPHRAGM	E	20	4	1.00							4	1	221					
		Slab																			
340	5	S1	SLAB	E	20	58	3.00							58	3	20,657					
216	6	S2	SLAB	E	20	44	0.00							44	0	14,275					
528	6	S3	SLAB	E	20	46	5.00							46	5	36,811					
294	5	S4	SLAB	E	20	46	5.00							46	5	14,233					
		Barrier																			
		Type D																			
8	5	K2	BARRIER	E	27S	3	5.00	8.25		14.50	2	2.75		14.25	2.75	7	7	7	5		62
20	5	K4	BARRIER	E	19S	4	2	4.25	10.00							3	2	3	1		
		INCREMENT =				2	6.25	10.00								3	4	3	3		66
		0.500 INCH																			
20	5	K5	BARRIER	E	38S	4				18.50	9.50	8.25	18.00	4.00		3	0	2	10		
		INCREMENT =								20.50	9.50	8.25	20.00	4.50		3	2	3	0		61
		0.500 INCH																			
12	5	K6	BARRIER	E	19S		2	6.75	10.00							3	5	3	4		42
12	5	K7	BARRIER	E	21S			2	6.75	10.00			2	6.00	6.25	3	5	3	3		41
36	5	K8	BARRIER	E	19S	4	2	8.50	10.00							3	7	3	6		
		INCREMENT =				3	2.50	10.00								4	1	4	0		141
		0.750 INCH																			
36	5	K9	BARRIER	E	21S	4		2	8.50	10.00			2	7.75	6.75	3	7	3	5		
		INCREMENT =						3	2.50	10.00			3	1.75	7.75	4	1	3	11		138
		0.750 INCH																			
24	5	K10	BARRIER	E	19S		3	3.00	10.00							4	1	4	0		100
24	5	K11	BARRIER	E	21S			3	3.00	10.00			3	2.25	7.75	4	1	3	11		98
48	5	K12	BARRIER	E	20		12	9.00								12	9	12	9		638
24	5	K13	BARRIER	E	20	8	6	0.00								6	0	6	0		
		INCREMENT =					12	0.00								12	0	12	0		225
		36.000 INCH																			
450	5	R1	BARRIER	E	26		3	3.00	5.50	2.25	3	1.25	5.50	3	0.75	6.75	6	11	6	10	3,207
450	5	R2	BARRIER	E	19S		20.50	9.50						2	6	2	5				1,134
450	5	R3	BARRIER	E	27S			9.50	15.25	5.00	12.00	15.00	3.00	3	6	3	4				1,565
80	5	R4	BARRIER	E	20		11	9.00						11	9	11	9				980
20	5	R5	BARRIER	E	20		33	11.00						33	11	33	11				708
40	5	R6	BARRIER	E	20		51	9.00						51	9	51	9				2,159
20	5	R7	BARRIER	E	20		30	11.00						30	11	30	11				645
		Slip Form																			
48	5	C1	SLIP FORM	E	20		12	0.00						12	0	12	0				601
8	5	C2	SLIP FORM	E	20		10	6.00						10	6	10	6				88
																		</			

Nominal lengths are based on out to out dimensions shown in bending diagrams and are listed to the nearest inch for fabricator's use. Actual lengths are measured along centerline bar to the nearest inch. Weights are based on actual lengths.

For bending diagrams and steel reinforcing totals, see Sheet No. 13.

Detailed Sept. 2025  
Checked Oct. 2025

All bars shall be ASTM A615 Grade 60.

# BILL OF REINFORCING STEEL

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

[illegible]

Codes: C = Required coatings, where E = Epoxy Coated and G = Galvanized.

SH = Required shape, see bending diagrams.

V = Sets of varied bars and number of bars of each length. Bar dimensions vary in equal increments between dimensions shown on this line and the following line and the actual length dimension shown on this line and the following line vary by the specified increment.



DATE PREPARED	
11/10/2025	
ROUTE	STATE
7	MO
DISTRICT	SHEET NO.
BR	15
COUNTY	
PULASKI	
JOB NO.	
JCD0031	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A30511

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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