DESIGN DESIGNATION

A.A.D.T. - 2027 = 83
A.A.D.T. - 2047 = 92
D.H.V. = 14%
T = 14%
V = 55 M.P.H.
D = 53% / 47%

FUNCTIONAL CLASSIFICATION- MINOR COLLECTOR

NORMAL ACCESS

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

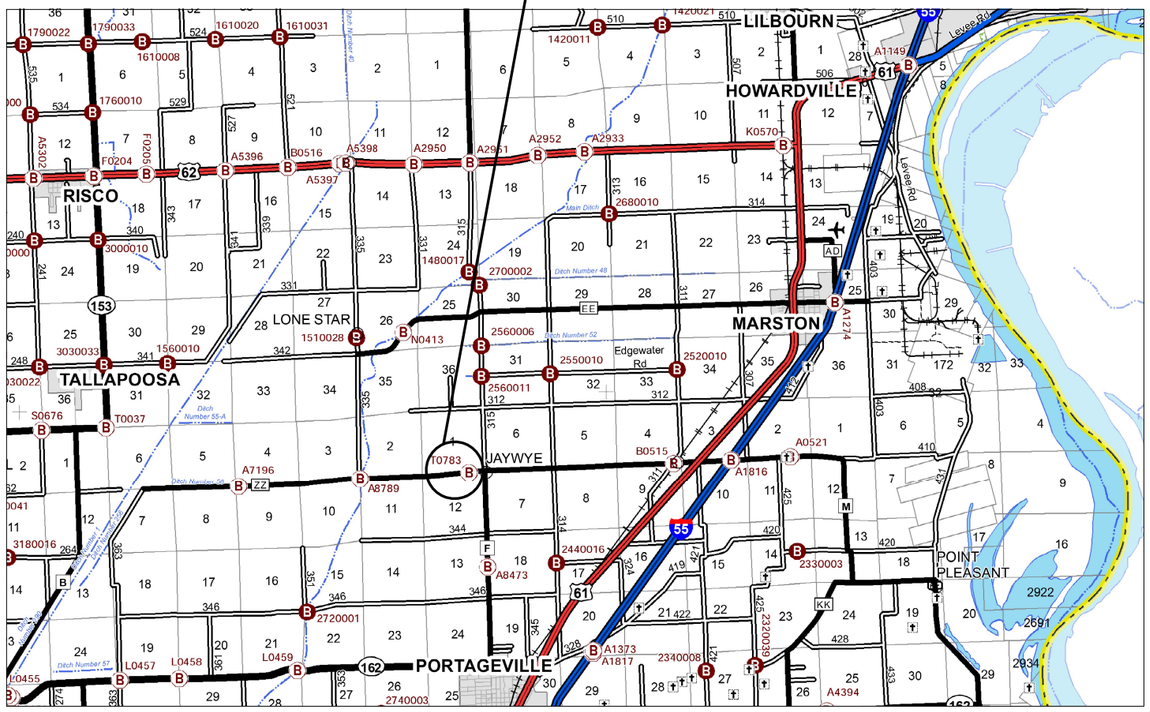


KEY MAP
LOCATION OF NEW MADRID COUNTY

NEW MADRID COUNTY

PROJECT LOCATION
BRIDGE REPLACEMENT

T 23 N
T 22 N



T 22 N
T 21 N

R 11 E | R 12 E R 12 E | R 13 E R 13 E | R 14 E

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

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS)	2
QUANTITIES (QU) (2 SHEETS)	3
PLAN-PROFILE (PP)	4
TRAFFIC CONTROL SHEETS (TC)	5
SIGNING (SN)	6
PAVEMENT MARKING (PM)	7
CULVERT SECTIONS (CS)	8-9
BRIDGE DRAWINGS (B)	
A9762	1-3

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 12 + 20.00	
END OF PROJECT	STA. 18 + 80.00	
APPARENT LENGTH	660.00	FEET
EQUATIONS AND EXCEPTIONS:		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	660.00	FEET
STATE LENGTH	0.125	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.98	ACRES

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
09/28/2026 3:27:46 PM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/28/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	1

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

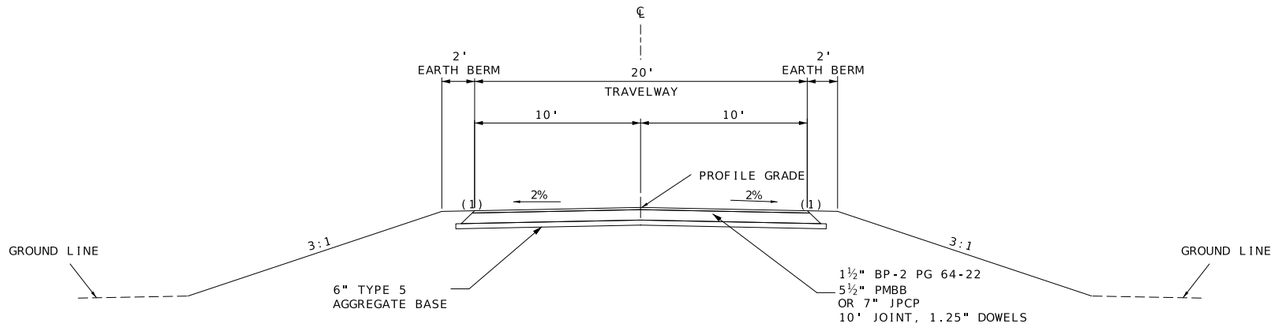
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

(1) SAFETY EDGE



SECTION ON TANGENT

TYPICAL SECTION RTE ZZ
STA 12+20.00 TO STA 18+80.00

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
09/28/2026 3:34:08 PM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	2

COUNTY
NEW MADRID

JOB NO.
JSE0107

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)

TYPICAL SECTION
SHEET 1 OF 1

MOBILIZATION - LUMP SUM 1

REMOVAL OF IMPROVEMENTS - LUMP SUM 1

STA	STA	LOC	DESCRIPTION	QUANTITY	REMARKS
12+20.00	18+80.00	LT & RT	MISCELLANEOUS SIGNS	10 EACH	
12+20.00	18+80.00	℄	EXISTING PAVEMENT	1350 SY	
16+00.00		LT & RT	PIPE CULVERTS	90 LF	
LOCATIONS AND QUANTITIES ARE APPROXIMATE FOLLOW SEC 202.30					

PIPE CULVERTS

SHEET	LOC	GROUP B PIPE 24" LF	GROUP B PIPE 36" LF	FLAP GATE 24" EACH	FLAP GATE 36" EACH	EXCAVATION CLASS 3 CY	REMARKS
4	RT		35.0		1	2.7	
4	LT	36.0		1		0.7	
4	RT		45.0		1	13.2	
4	LT	45.0		1		6.3	
	TOTAL	81	80	2	2	23	

DITCH ROCK

STA	STA	LOC	TYPE 2 DITCH LINER FURNISHING CY	TYPE 2 DITCH LINER PLACING CY	TYPE 2 ROCK BLANKET FURNISHING CY	TYPE 2 ROCK BLANKET PLACING CY	REMARKS
14+75.00	15+92.00	LT	49.3	49.3	119.4	119.4	ROCK BLANKET AT BOX END
15+14.00	15+90.00	RT	31.0	31.0	144.6	144.6	ROCK BLANKET AT BOX END
		TOTAL	81	81	264	264	

TEMPORARY EROSION CONTROL

STA	STA	ROCK DITCH CHECK LF	SEDIMENT REMOVAL CY	TEMP SEED AC	MULCH AC	REMARKS
12+20.00	18+80.00	420	12	0.49	0.49	
	TOTAL	420	12	0.5	0.5	

BASE AND PAVEMENT

STA	STA	LOC	LENGTH FT	WIDTH FT	DEPTH IN	7" OPTIONAL PAVEMENT ROADWAY SY	6" TYPE 5 AGGR SY	REMARKS
12+20.0	18+80.00	℄	660.00	20	7	1466.67	1466.7	
					TOTAL	1466.7	1467	

EARTHWORK

STA	STA	APPROX EARTHWORK CUT CY	APPROX EARTHWORK FILL CY	MOD. LINEAR GRADING CLASS II STA	COMPACTING IN CUT STA	REMARKS
12+20.00	18+80.00	186	1052	6.60	6.00	
			TOTAL	6.6	6.0	

PAVEMENT MARKING

LOC	REMOVAL LF	YELLOW 4" INTER LF	REMARKS
RTE ZZ	1625	574.7	
TOTAL	1625	575	

SEEDING AND MULCHING

STA	STA	LOC	SEED COOL SEASON AC	MULCH AC	REMARKS
12+20.00	18+80.00	LT & RT	0.98	0.98	
		TOTAL	1.0	1.0	

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
10/22/2026 3:34:41 PM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED: 10/22/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	3

COUNTY: NEW MADRID
JOB NO.: JSE0107
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)

SUMMARY OF QUANTITIES
SHEET 1 OF 2

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00						MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00						ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00						DETOUR AHEAD
WO20-3	48X48	16.00	2	32.00				ROAD CLOSED AHEAD
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD
WO20-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NO.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00						END ROAD WORK
GO20-4	36X18	4.50						PILOT CAR FOLLOW ME
GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00						END DETOUR
MO4-9L	48X36	12.00						DETOUR (LEFT)
MO4-9R	48X36	12.00						DETOUR (RIGHT)
MO4-9P	48X12	4.00						STREET NAME (PLAQUE)
MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)
MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00						SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)
R11-2	48X30	10.00	2	20.00				ROAD CLOSED
R11-3a	60X30	12.50	1	12.50				ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-8	48X36	12.00						WORK ZONE NO PHONE ZONE
WO4-2L	48X48	16.00						LANE ENDS (SYMBOL-LEFT)
WO4-2R	48X48	16.00						LANE ENDS (SYMBOL-RIGHT)

616-10.05 CONSTRUCTION SIGNS	TOTAL
	69

616-10.10 RELOCATED SIGNS	TOTAL

EFFECTIVE: 07-01-2025

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6122040		WORK ZONE CRASH CUSHION (NARROW)
6122041		WORK ZONE CRASH CUSHION (RELOCATION)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONE)
6161025		CHANNELIZER (TRIM-LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161030	7	TYPE 3 MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE 3 OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2	CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION CONTRACTOR FURNISHED/RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
Landon Bodenschatz
09/28/2026 9:49:51 AM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	3

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

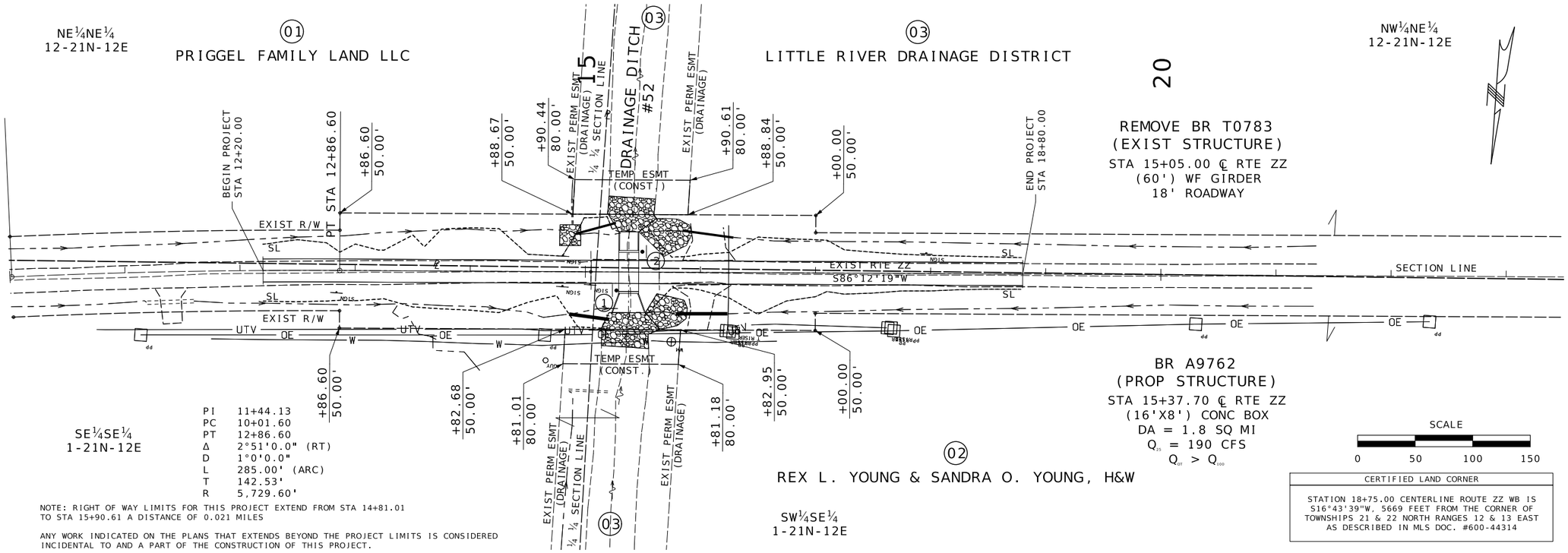
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SUMMARY OF QUANTITIES
SHEET 2 OF 2



PI	11+44.13
PC	10+01.60
PT	12+86.60
Δ	2°51'0.0" (RT)
D	1°0'0.0"
L	285.00' (ARC)
T	142.53'
R	5,729.60'

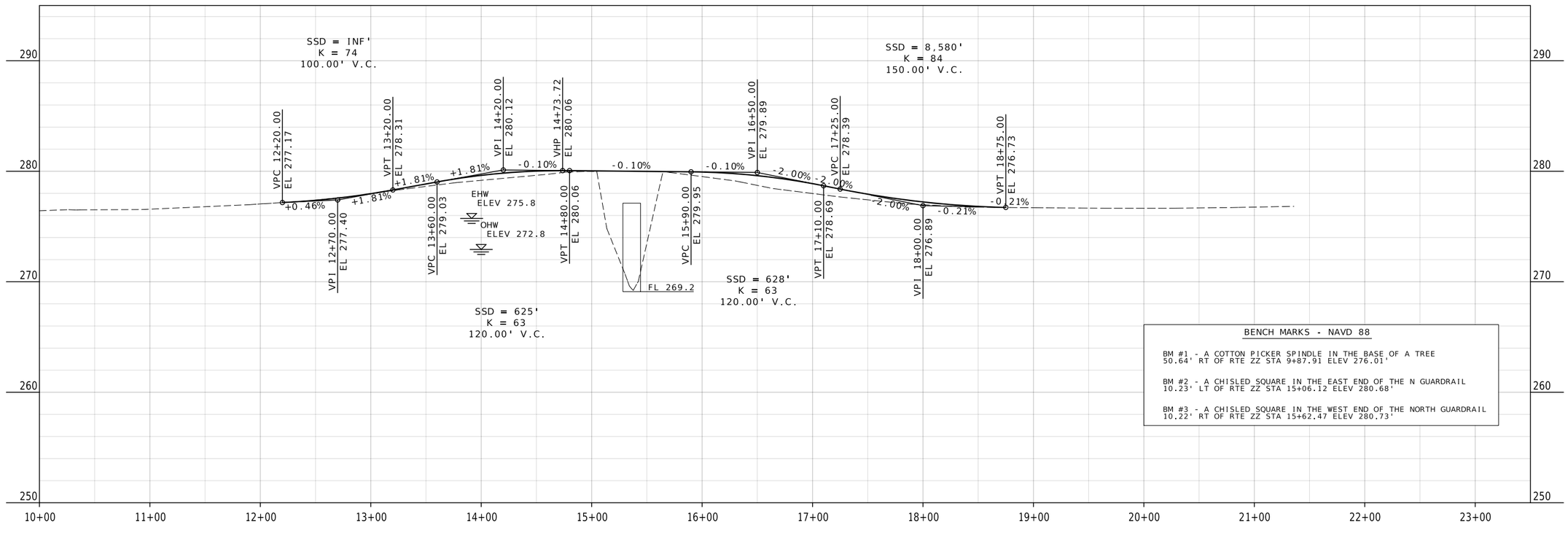
NOTE: RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA 14+81.01 TO STA 15+90.61 A DISTANCE OF 0.021 MILES

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL BEARINGS BASED ON GRID NORTH, MISSOURI COORDINATE SYSTEM OF 1983, EAST ZONE.

CERTIFIED LAND CORNER

STATION 18+75.00 CENTERLINE ROUTE ZZ WB IS S16°43'39"W, 5669 FEET FROM THE CORNER OF TOWNSHIPS 21 & 22 NORTH RANGES 12 & 13 EAST AS DESCRIBED IN MLS DOC. #600-44314



BENCH MARKS - NAVD 88

BM #1 - A COTTON PICKER SPINDLE IN THE BASE OF A TREE 50.64' RT OF RTE ZZ STA 9+87.91 ELEV 276.01'

BM #2 - A CHISLED SQUARE IN THE EAST END OF THE N GUARDRAIL 10.23' LT OF RTE ZZ STA 15+06.12 ELEV 280.68'

BM #3 - A CHISLED SQUARE IN THE WEST END OF THE NORTH GUARDRAIL 10.22' RT OF RTE ZZ STA 15+62.47 ELEV 280.73'

STATE OF MISSOURI
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9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	4

COUNTY
NEW MADRID

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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)

PLAN-PROFILE
SHEET 1 OF 1



WO20-3

20A



WO20-3

20B



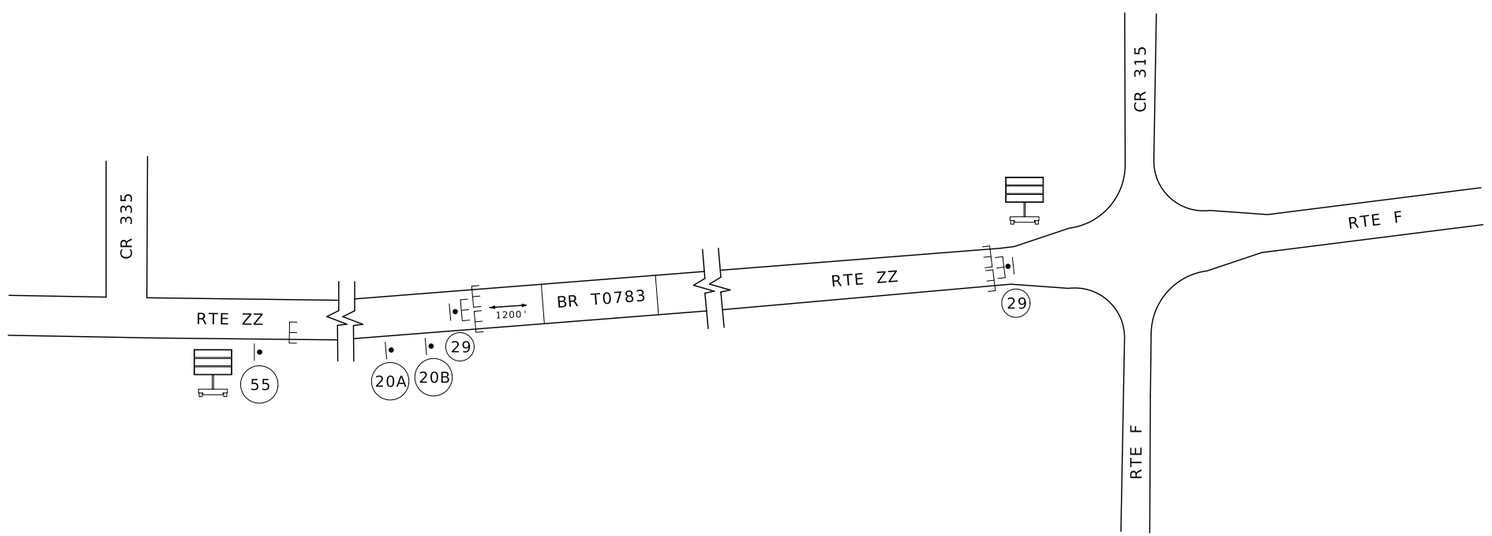
R11-3a

55



R11-2

29



TRAFFIC CONTROL LEGEND

BARRICADE

SIGN

CHANGEABLE MESSAGE BOARD

NOTES:

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPETELY COVERED OR REMOVED.

NO PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS.

DRAWING NOT TO SCALE- FOLLOW DIMENSIONS

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
09/28/2026 9:59:17 AM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	5

COUNTY
NEW MADRID

JOB NO.
JSE0107

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)

TRAFFIC CONTROL
SHEET 1 OF 1

SIGNS

902 SIGNAL SIGNS TABULATED ON D37-1 SHEET

						PERFORATED SQUARE STEEL TUBE										
						2 IN. POST					2.5 IN. POST					BREAK
						POST			ANCHORS		POST			ANCHORS		AWAY
SIGN NO.	SIGN SIZE	STA	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	NO.1	NO.2	TOTAL ITEM NO. 9031270A	DRIVEN ITEM NO. 9031273A	CONCRETE ITEM NO. 9031274	NO.1	NO.2	TOTAL ITEM NO. 9031280	DRIVEN ITEM NO. 9031281A	CONCRETE ITEM NO. 9031285	ASSEMBLY ITEM NO. 9031241
						LF	LF	LF	EA	EA	LF	LF	LF	EA	EA	EA
1	12X36	15+29.03		RT		9.75		9.75	1							
2	12X36	15+46.37		LT		9.75		9.75	1							
				SUBTOTAL				19.5	2				0.0	0		
				TOTAL				20	2				0	0		

D-29

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STA	LOCATION	TYPE							
			SHF							
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH							
			OM3-R 12X36							
1	15+29.03	RT	1							
2	15+46.37	LT	1							
	TOTAL		2							

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				
			SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLORESCENT STF* ITEM NO. 9035071A
OM3-R	STD	2	12X36		6.0		
			TOTAL		6		

D-30

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
09/28/2026 10:00:01 AM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO

DISTRICT	SHEET NO.
SE	6

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

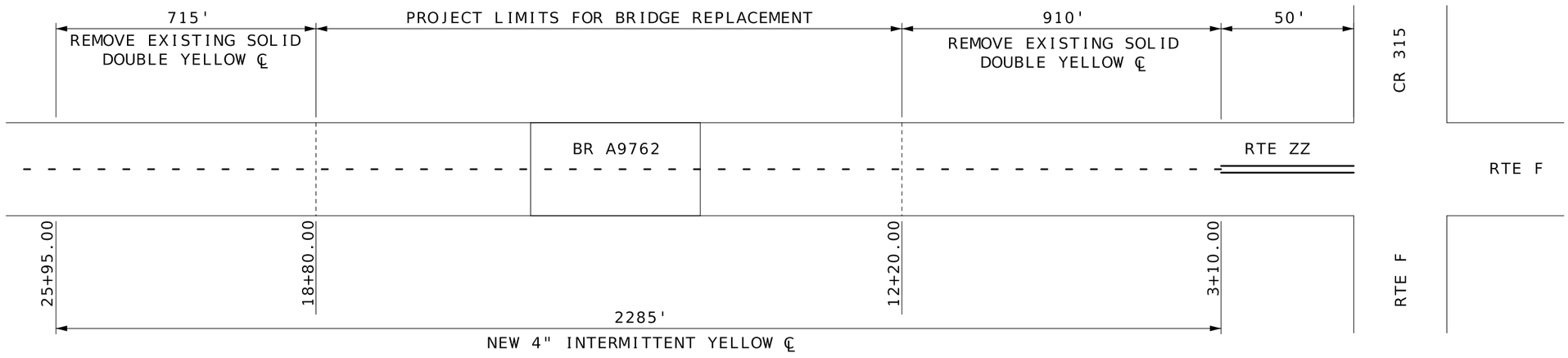
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING
SHEET 1 OF 1



DRAWING NOT TO SCALE. DIMENSIONS ARE APPROXIMATE.

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER
09/28/2026 10:00:32 AM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	7

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

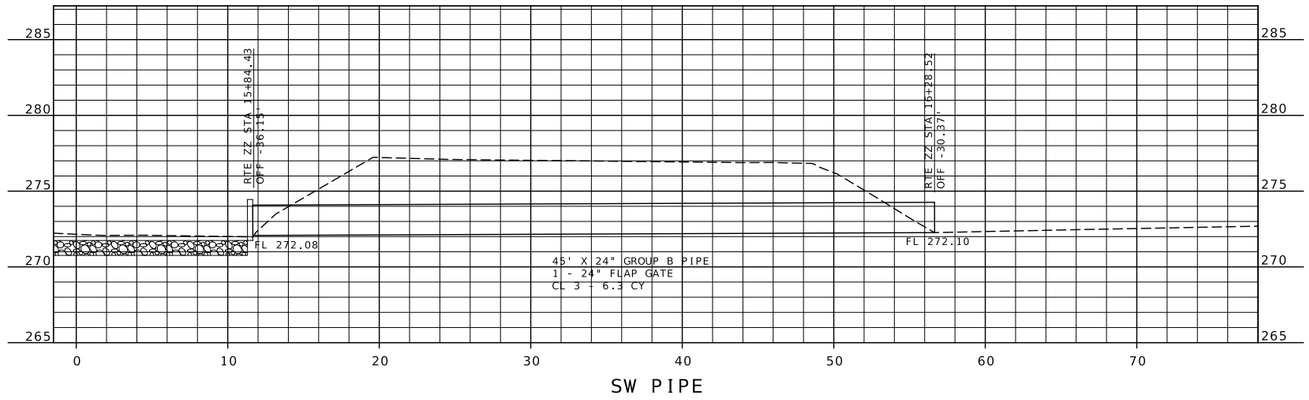
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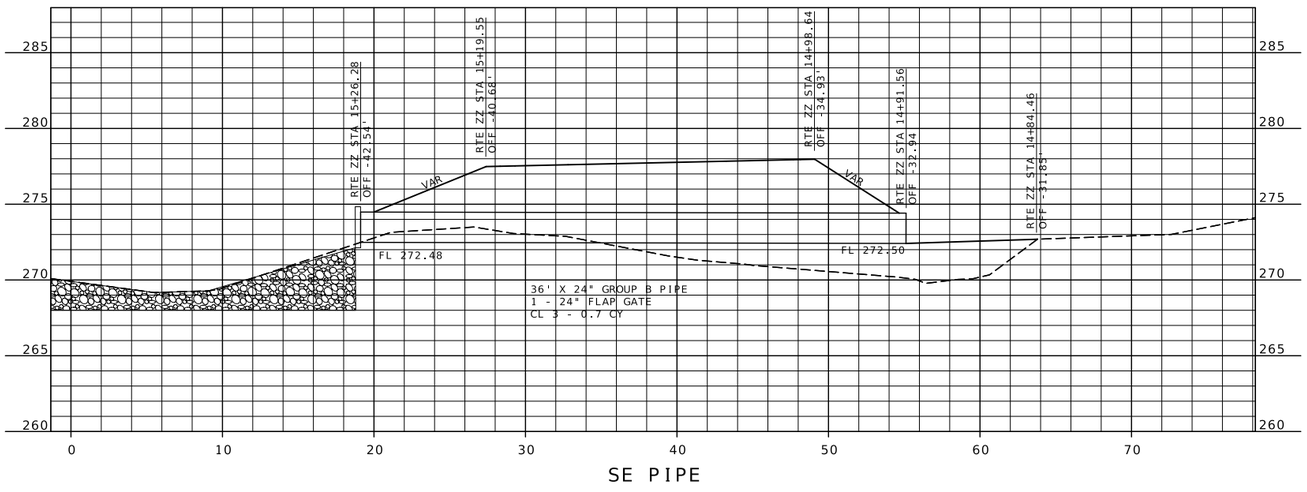
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

PAVEMENT MARKING
SHEET 1 OF 1



SW PIPE



SE PIPE

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER

09/28/2026 3:35:01 PM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	8

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

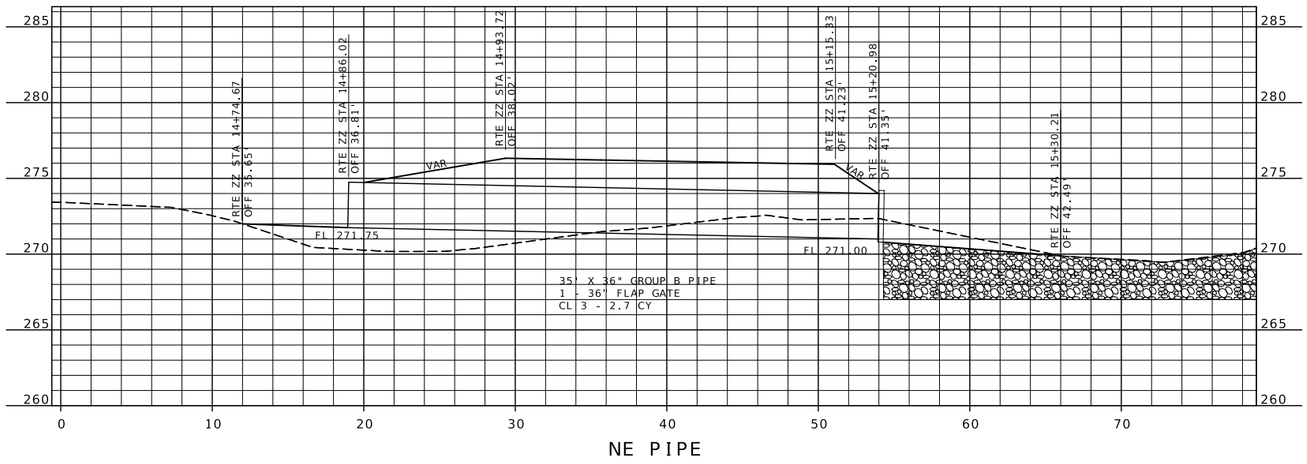
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DESCRIPTION	DATE

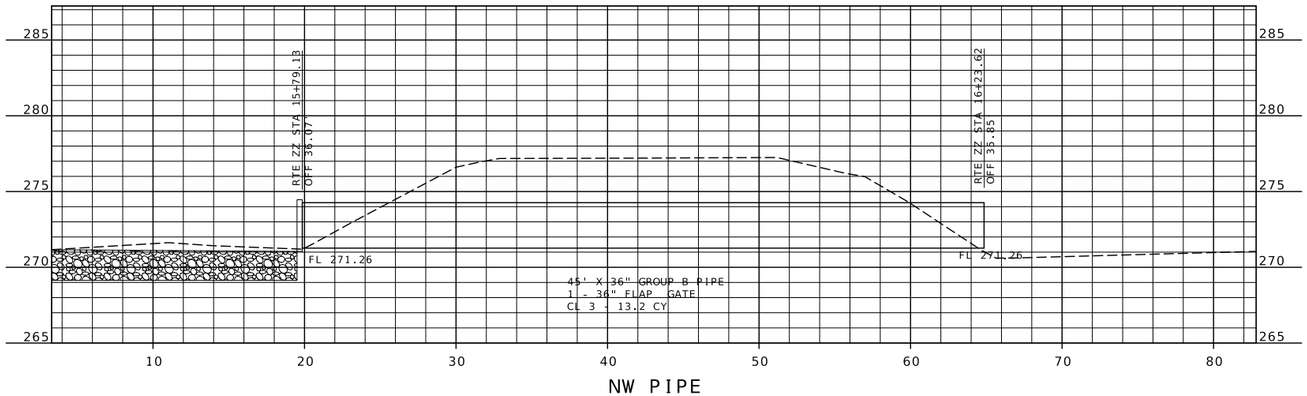
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTIONS
SHEET 1 OF 2



NE PIPE



NW PIPE

STATE OF MISSOURI
LANDON BODENSCHATZ
NUMBER PE-2013019021
PROFESSIONAL ENGINEER

Landon Bodenschatz
09/28/2026 3:35:26 PM
LANDON BODENSCHATZ - CIVIL
MO-PE-2013019021

DATE PREPARED
9/24/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
SE	9

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

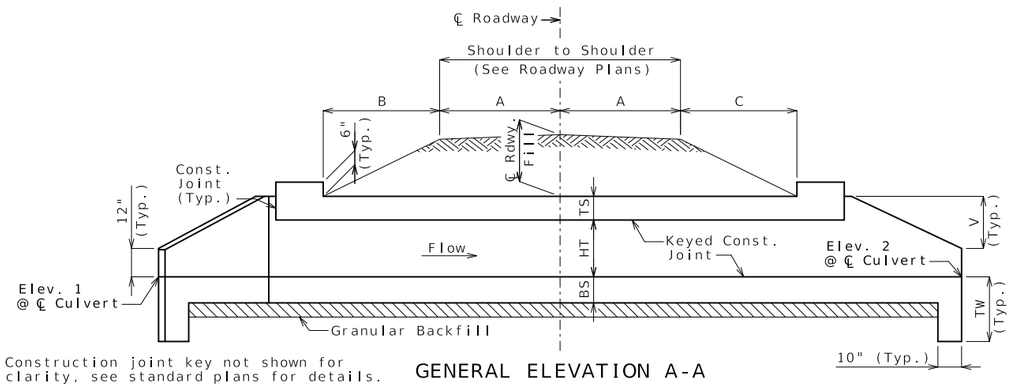
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTIONS
SHEET 2 OF 2

(16'x 8') CONCRETE BOX CULVERT

SEC/SUR 1 TWP 21 N RGE 12 E

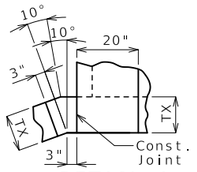


GENERAL ELEVATION A-A

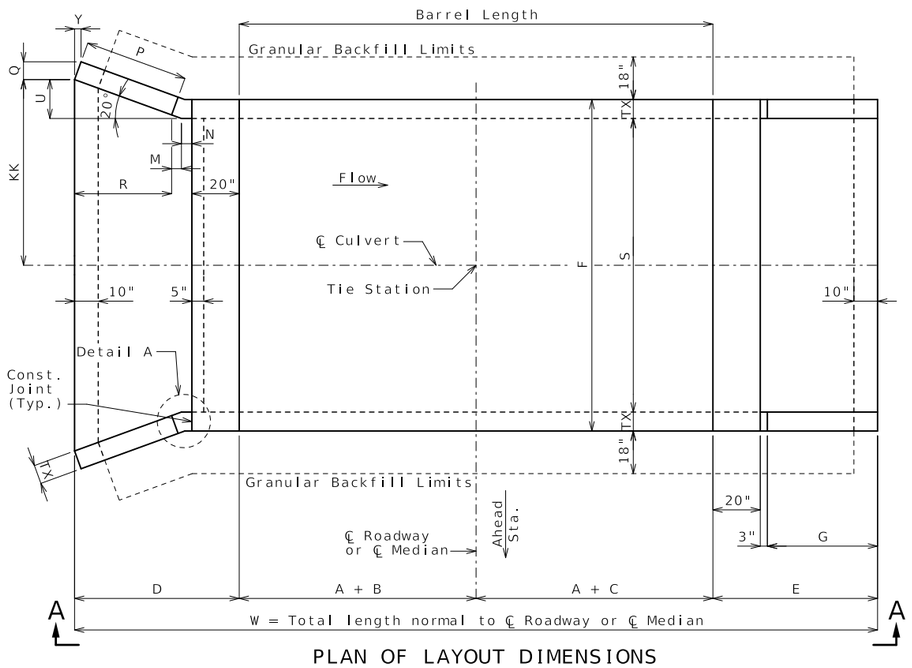
Construction joint key not shown for clarity, see standard plans for details.

If any part of the barrel is exposed, the roadway fill shall be warped to provide 12 inches minimum cover. (Roadway Item)

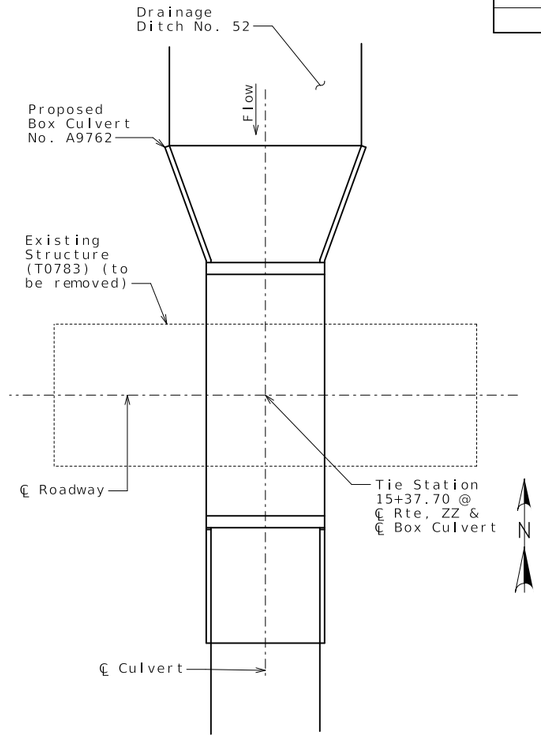
If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.



DETAIL A



PLAN OF LAYOUT DIMENSIONS



LOCATION SKETCH

Layout Dimensions

Var.	Equation	Dim.	Var.	Equation	Dim.	Var.	Equation	Dim.
S		16.000'	C		5.000'	Q	TX(cos 20°)	0.625'
HT		8.000'	D	R + M + N + 20"	18.354'	R	P(cos 20°)	15.979'
TS		1.000'	E	G + 23"	17.917'	U	(R + M)(tan 20°)	5.938'
BS		1.083'	F	S + 2TX	17.333'	V	HT + TS - 12"	8.000'
TX		0.667'	G	2V	16.000'	W	2A + B + C + D + E	70.271'
A		12.000'	M	N(cos 20°)	0.344'	Y	TX(sin 20°)	0.229'
B		5.000'	N	3" + TX(tan 10°)	0.365'	KK	S/2 + U	13.938
			P	2V(sec 20°)	17.000'	TW	Max{3'-4" or (BS + 12")}	3.333'

Hydrologic Data

Drainage Area = 1.8 mi^2
Design Flood Frequency = 25 years
Design Flood Discharge = 190 cfs
Design Flood (D.F.) Elevation = 272.9 ft
Base Flood (100-year)
Base Flood Elevation = 273.1 ft
Base Flood Discharge = 220 cfs
Estimated Backwater = 0.1 ft
Outlet Velocity = 3.9 ft/s
Roadway Overtopping
Overtopping Flood Discharge = >240 cfs
Overtopping Flood Frequency = >500 years
500-year Flood Elevation = 273.3

Elevations

Upstream (Elev. 1) = 269.23
Downstream (Elev. 2) = 269.22
Pr. Gr. at Tie Sta. = 280.00

Fill Heights

℄ Rdwy at ℄ Culvert = 1.8 ft
Design (All units) = 2.0 ft

Dimensions are based on end units.
Fill heights are measured from the top of top slab to the top of earth fill or roadway.

Estimated Quantities

			Final
Class 4 Excavation	cu. yard	115	
Dewatering	lump sum	1	
Removal of Bridges	lump sum	1	
Class B-1 Concrete (Culverts)	cu. yard	90.5	
Reinforcing Steel (Culverts)	pound	12,200	
Reinforcing Steel (Epoxy Coated)(Culverts)	pound	8,230	

General Notes:

Design Specifications:
2010 AASHTO LRFD Bridge Design Specifications and 2010 Interim Revisions

Design Loading:
Vehicular = HL-93 minus lane load, Earth = 120 lb/cf
Equivalent Fluid Pressure = 30 lb/cf (min.), 60 lb/cf (max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (ASTM A615 Grade 60) fy = 60,000 psi

Standard Plans:
703.37, 703.11, 703.16, 703.17

J5 bars in upstream wings (from standard plans) are called out as J2 bars on the bill of reinforcing

Miscellaneous:
MoDOT Construction personnel will indicate the type of box culvert constructed:
☐ Precast Concrete Box used
☐ Cast-in-Place Concrete Box used

When alternate precast concrete box sections are used, the minimum distance from inside face of headwalls to precast sections measured along the shortest wall shall be 3 feet. Reinforcement and dimensions for wings and headwalls shall be in accordance with Missouri Standard Plans.

Channel bottom shall be graded within the right of way for transition of channel bed to culvert openings. Channel banks shall be tapered to match culvert openings. (Roadway Item)

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

B.M. #2-A CHISLED SQUARE IN THE EAST END OF THE GUARDRAIL 10.23' LT OF RTE ZZ STA 15+06.12 ELEV 280.68'

B.M. #3-A CHISLED SQUARE IN THE WEST END OF THE NORTH GUARDRAIL 10.22' RT OF RTE ZZ STA 15+62.47 ELEV 280.73'

CULVERT: ROUTE ZZ OVER DRAINAGE DITCH NO. 52

ROUTE ZZ FROM ROUTE 315 TO ROUTE 335
ABOUT 0.25 MILES WEST OF ROUTE 315
TIE STATION 15+37.70

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
09/14/2026 9:08:10 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED
9/14/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
BR	1

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

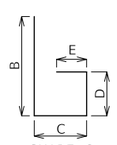
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A9762

DESCRIPTION	DATE

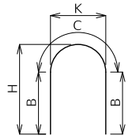
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Detailed Jan. 2026
Checked Mar. 2026

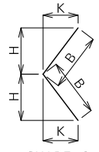
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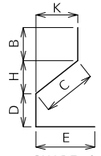
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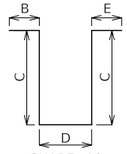
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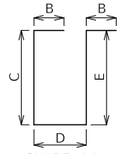
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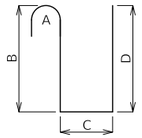
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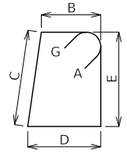
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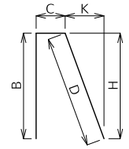
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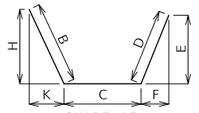
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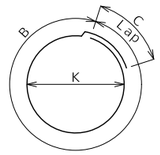
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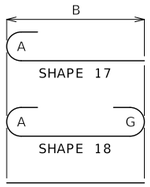
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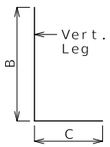
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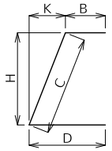
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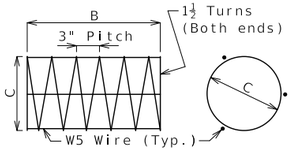
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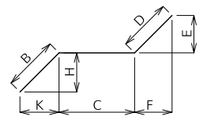
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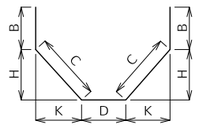
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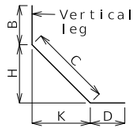
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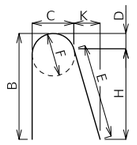
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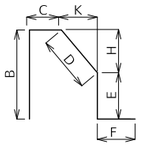
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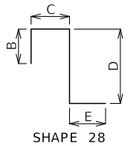
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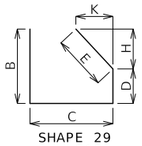
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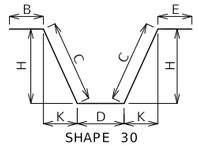
SHAPE 27S



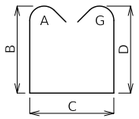
SHAPE 28
or 28S



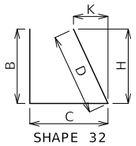
SHAPE 29
or 29S



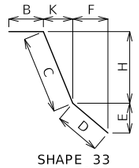
SHAPE 30
or 30S



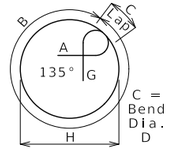
SHAPE 31S



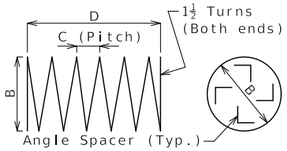
SHAPE 32
or 32S



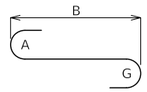
SHAPE 33
or 33S



SHAPE 34S



SHAPE 35 (1)

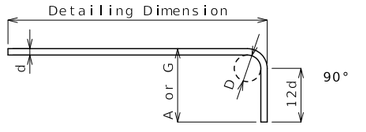


SHAPE 36

Finished Bend Diameters D and Hook Dimensions

Standard Pin Bend Shapes

Size	Case	D	A or G		J
			90°	180°	180°
#4	1	3"	8"	6"	4"
#5	1	3¾"	10"	7"	5"
#6	1	4½"	12"	8¼"	6"
#7	2	5¼"	14"	9¾"	7"
	3	7"	15"	11½"	8¾"
#8	2	6"	16"	11"	8"
	3	8"	17"	13¼"	10"
#9	1	9½"	19½"	15½"	11¾"
#10	1	10¾"	22"	17½"	13¼"
#11	1	12"	24½"	19½"	14⅞"
#14	1	18¼"	31¼"	27½"	21⅝"
#18	1	24"	41½"	36¾"	28½"

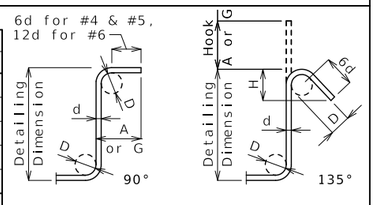


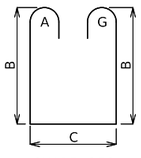
Stirrup Pin Bend Shapes (S)

Size	Case	D	A or G			H	J
			90°	135°	180°	135°	180°
#4	2	2"	4½"	4½"	5"	2⅝"	3"
	3	3"	5"	5¼"	6"	3"	4"
#5	2	2½"	5¾"	5¾"	5¾"	3⅝"	3¾"
	3	3¾"	6¼"	6½"	7"	3⅞"	5"
#6	1	4½"	12"	7¾"	8¼"	4⅝"	6"

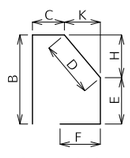
Applicable for all grades of steel.

Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.





SHAPE 37S



SHAPE 38S

BENDING DIAGRAMS

All dimensions are out to out.

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

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

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

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

Reinforcing Steel Totals

		Culvert			
		Units			Slip
	Size	Plain	Coated	Barrier	Form
By Size	W5	0	0	0	0
	4	1,439	735	0	0
	5	1,601	1,895	0	0
	6	5,257	2,835	0	0
	7	3,906	2,584	0	0
	8	0	182	0	0
	9	0	0	0	0
	10	0	0	0	0
	11	0	0	0	0
	14	0	0	0	0
	18	0	0	0	0
By Type		12,203	8,231	0	0

All reinforcing steel values are represented in pounds.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS

Detailed Jan. 2026
Checked Mar. 2026

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

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
09/14/2026 8:46:07 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED
9/14/2026

ROUTE	STATE
ZZ	MO
DISTRICT	SHEET NO.
BR	2

COUNTY
NEW MADRID

JOB NO.
JSE0107

CONTRACT ID.

PROJECT NO.

BRIDGE NO.
A9762

DESCRIPTION	DATE

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

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb
		Culvert													
74	7 A1	TOP SLAB	E	20		17 1.00							17 1	17 1	2,619
92	7 A2	BOTTOM SLAB		20		17 1.00							17 1	17 1	3,212
17	5 A3	US BOTTOM SLAB		20	1	17 2.50							17 3	17 3	
		Incr. = 8.750"				28 10.25							28 10	28 10	409
76	5 B2	WALLS	E	10S			12.00	9 8.00					11 8	11 5	905
4	8 D1	HEADWALL	E	20		17 1.00							17 1	17 1	182
16	5 E1	TOEWALL		20		4 1.00							4 1	4 1	68
15	4 F1	BOTTOM SLAB		20		53 4.00							53 4	53 4	534
30	4 F2	TOP SLAB	E	20		36 8.00							36 8	36 8	735
8	4 F3	US TOP-BOTT SLAB		20	2	4 6.50							4 7	4 7	
		Incr. = 38.375"				14 1.75							14 2	14 2	50
15	4 F4	US TOP-BOTT SLAB		20		19 3.50							19 4	19 4	194
4	4 F5	US BOTT-BOTT SLAB		15S		2 7.75	18 4.00				12.25	2 5.25	21 0	20 11	56
12	4 F6	WINGS/WALLS		20	2	40 9.00							40 9	40 9	
		Incr. = 28.000"				52 5.00							52 5	52 5	373
12	4 F7	US WINGS/WALLS		15S	2	3 1.75	3 2.25				12.75	2 11.50	6 4	6 3	
		Incr. = 29.750"				3 1.75	15 7.25				12.75	2 11.50	18 9	18 8	100
4	4 F8	WINGS/WALLS		20	2	40 9.00							40 9	40 9	
		Incr. = 28.000"				43 1.00							43 1	43 1	112
4	4 F9	US WINGS/WALLS		15S	2	3 1.75	3 2.25				12.75	2 11.50	6 4	6 3	
		Incr. = 29.000"				3 1.75	5 8.00				12.75	2 11.50	8 10	8 8	20
32	5 G1	DS WINGS		20	2	2 2.00							2 2	2 2	
		Incr. = 5.625"				9 8.25							9 8	9 8	210
32	5 G2	US WINGS		20	2	2 2.25							2 2	2 2	
		Incr. = 6.000"				9 8.25							9 8	9 8	197
8	7 J1	DS WING		15		3 2.50	17 9.25				17.25	2 10.50	21 0	20 9	341
64	6 J2	DS WING		19S	2	2 0.00	5 4.00						7 4	7 2	
		Incr. = 2.875"				9 6.00	5 4.00						14 10	14 8	1,049
150	6 J3	TOP SLAB	E	19S		3 1.00	9 8.00						12 9	12 7	2,835
150	6 J4	BOTTOM SLAB		19S		8 9.00	5 4.00						14 1	13 11	3,135
64	6 J51	US WINGS		19S	2	2 4.25	5 4.00						7 8	7 6	
		Incr. = 2.875"				9 7.50	5 4.00						15 0	14 10	1,073
62	5 J52	DS WINGS		19S	2	2 2.00	5 4.00						7 6	7 4	
		Incr. = 3.000"				9 8.00	5 4.00						15 0	14 10	717
8	7 J6	US WINGS		15		3 1.25	18 8.25				16.00	2 9.75	21 10	21 7	353
18	5 R1	US HEADWALL	E	27S		17.25	10.75	6.25	2 2.50		4.50	4.50	5 1	4 11	92
18	5 R2	US HEADWALL	E	10S			12.00	15.00					3 3	3 0	56
18	5 R3	DS HEADWALL	E	10S			17.00	15.00					4 1	3 10	72

Bill of Reinforcing Steel

No. Req.	Size/ Mark	Location	Codes C	SH	V	Dimensions B ft in.	C ft in.	D ft in.	E ft in.	F ft in.	H ft in.	K ft in.	Nom. Length ft in.	Actual Length ft in.	Weight lb

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. 2.

Detailed Jan. 2026
Checked Mar. 2026

Reinforcing steel (ASTM A615 Grade 60) fy = 60,000 psi

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

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

SH = Required shape, see bending diagrams.

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

BILL OF REINFORCING STEEL

STATE OF MISSOURI
TIMOTHY D. LEAF
NUMBER PE-2012000778
PROFESSIONAL ENGINEER
09/14/2026 8:46:20 AM
TIMOTHY D. LEAF - CIVIL
MO-PE-2012000778

DATE PREPARED
9/14/2026

ROUTE ZZ | STATE MO
DISTRICT BR | SHEET NO. 3
COUNTY NEW MADRID
JOB NO. JSE0107
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BRIDGE NO. A9762

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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