MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED
STATE HIGHWAY
JASPER COUNTY

DESIGN DESIGNATION

DAVIS BLVD.

A.A.D.T. - 2027 (CONST.) = 4,103
A.A.D.T. - 2047 (DESIGN) = 5,240
D.H.V. = 9.49%
T = 16.85%
V = 35 M.P.H.
D (N/S) = 52.7%/47.3%
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR

ROUTE FF

A.A.D.T. - 2027 (CONST.) = 14,948
A.A.D.T. - 2047 (DESIGN) = 16,516
D.H.V. = 8.57%
T = 8.26%
V = 45 M.P.H.
D (W/E) = 47.8%/52.2%
FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

RIGHT OF WAY NOTE

NORMAL ACCESS RIGHT-OF-WAY REQUIRED

PERMANENT EASEMENTS REQUIRED

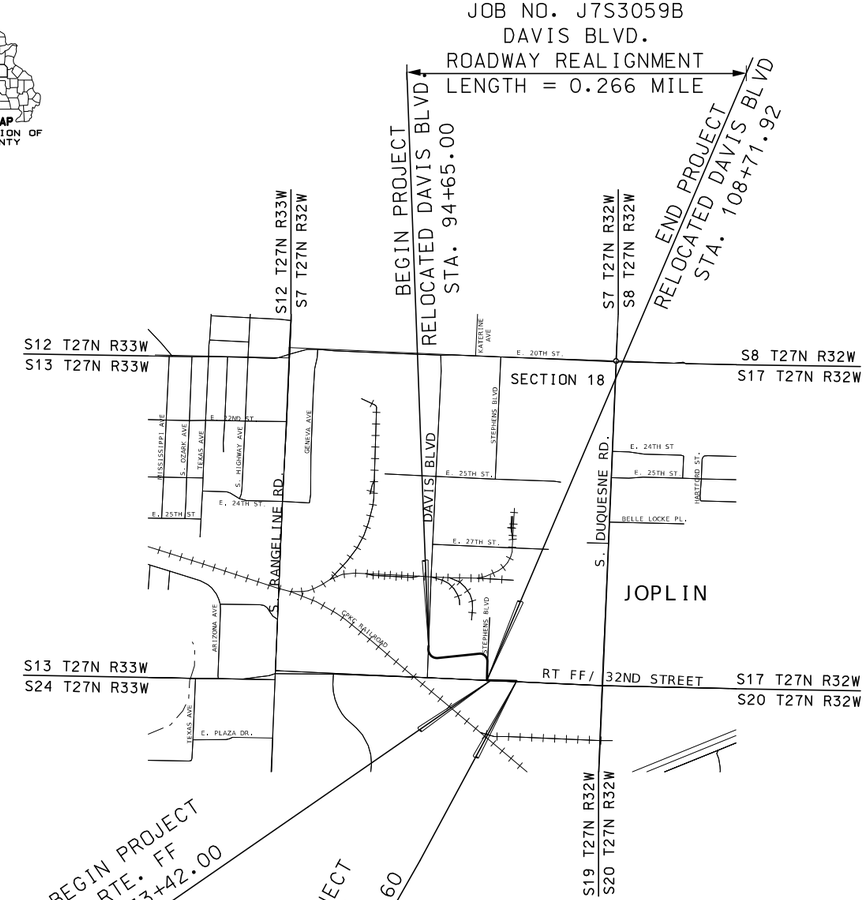
TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

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		
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

JOB NO. J7S3059B
DAVIS BLVD.
ROADWAY REALIGNMENT
LENGTH = 0.266 MILE



BEGIN PROJECT
RTE. FF
STA.33+42.00

END PROJECT
RTE FF
STA. 39+31.60

JOB NO. J7S3059B
RTE. FF RIGHT TURN LANE
LENGTH = 0.112 MILE

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.

¼ 0 ½ 1
SCALE IN MILES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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QUANTITIES (QU) (5 SHEETS)	3
PLAN-PROFILE SHEETS (PP)	4-6
RIGHT OF WAY (RW)	7-9
CONTROL/REFERNCE POINTS (RP)	10
SPECIAL SHEETS (SS)	11-15
TRAFFIC CONTROL (TC)	16-22
EROSION CONTROL (EC)	23
LIGHTING (LT)	24-25
SIGNALS (SG)	26-32
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PAVEMENT MARKING (PM)	40-41
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A9696	1-4
CROSS SECTIONS (XS)	1-23

LENGTH OF PROJECT

DAVIS BLVD.:

BEGINNING OF PROJECT	STA.	94+65.00	
END OF PROJECT	STA.	108+71.92	
APPARENT LENGTH		1406.92	FEET
EQUATIONS AND EXCEPTIONS:		NONE	

ROUTE FF - RIGHT TURN LANE

BEGINNING OF PROJECT	STA.	33+42.00	
END OF PROJECT	STA.	39+31.60	
APPARENT LENGTH		589.60	FEET
EQUATIONS AND EXCEPTIONS:		NONE	
TOTAL CORRECTIONS		0.00	FEET
COMBINED NET LENGTH OF PROJECT		1,996.52	FEET
COMBINED STATE LENGTH		.378	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES		2.31	ACRES

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	1

COUNTY: JASPER
JOB NO.: J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

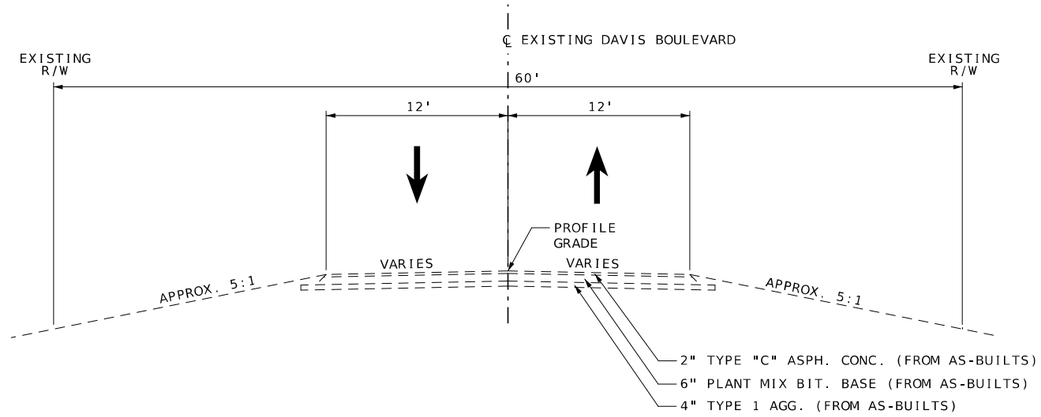
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

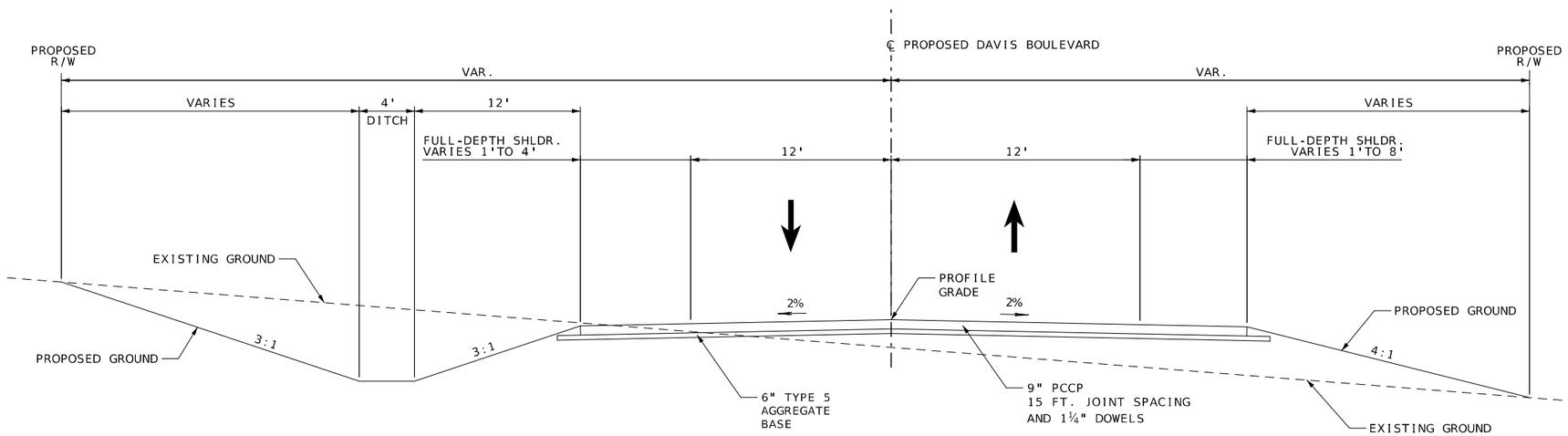
REV.

DAVIS BLVD SHOULDER WIDTH				
LEFT		RIGHT		REMARKS
STA.	WIDTH FEET	STA.	WIDTH FEET	
94+65.00	1.00	94+65.00	1.00	
95+15.00	6.00	95+15.00	6.00	
97+64.75	6.00	97+64.75	6.00	
98+14.75	4.00	98+14.75	4.00	
103+66.00	4.00	103+68.00	4.00	END SHLDR LT.
		104+21.02	8.00	
		106+63.08	8.00	
		107+32.39	2.50	END SHLDR RT.



EXISTING DAVIS BOULEVARD

STA. 93+00.00 TO STA. 99+71.77



PROPOSED. DAVIS BOULEVARD

STA. 94+65.00 TO STA. 95+20.99

TYPICAL SECTION SHEET
DAVIS BOULEVARD
SHEET 1 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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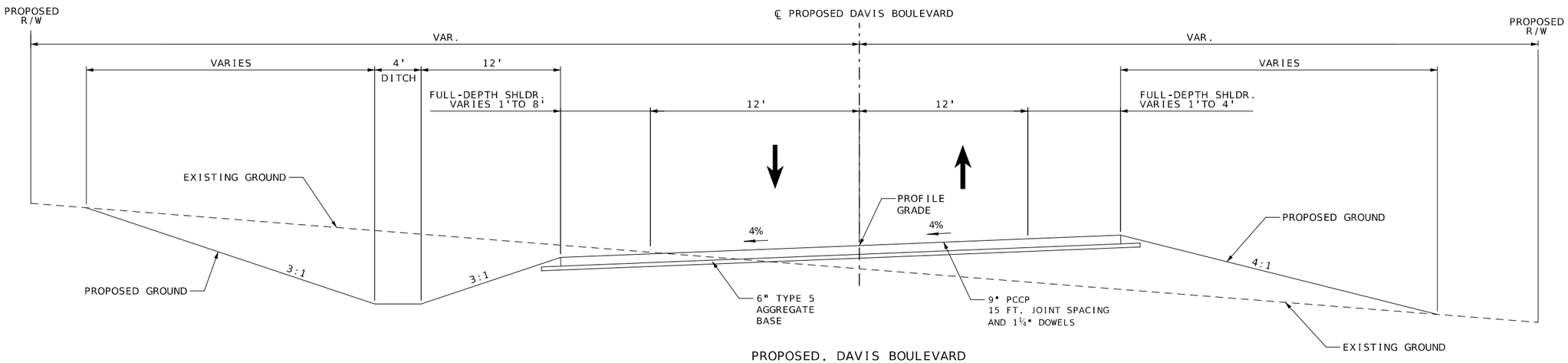
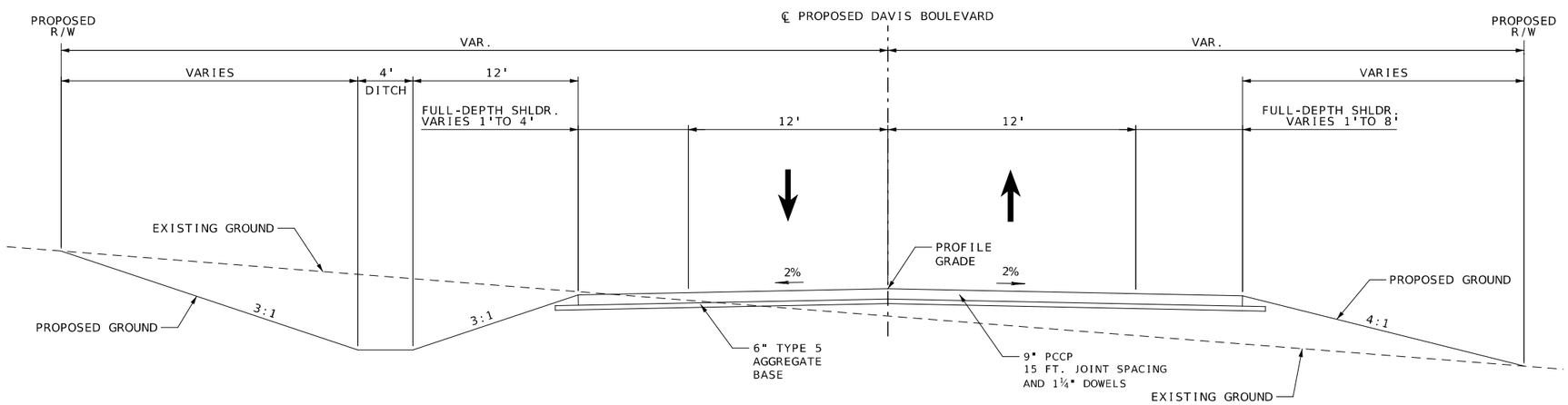


PROPOSED. DAVIS BOULEVARD

STA. 95+20.99 TO STA. 97+64.75



PROPOSED. DAVIS BOULEVARD

STA. 97+64.75 TO STA. 104+20.06 RT
STA. 97+64.75 TO STA. 104+79.87 LT

TYPICAL SECTION SHEET
DAVIS BOULEVARD
SHEET 2 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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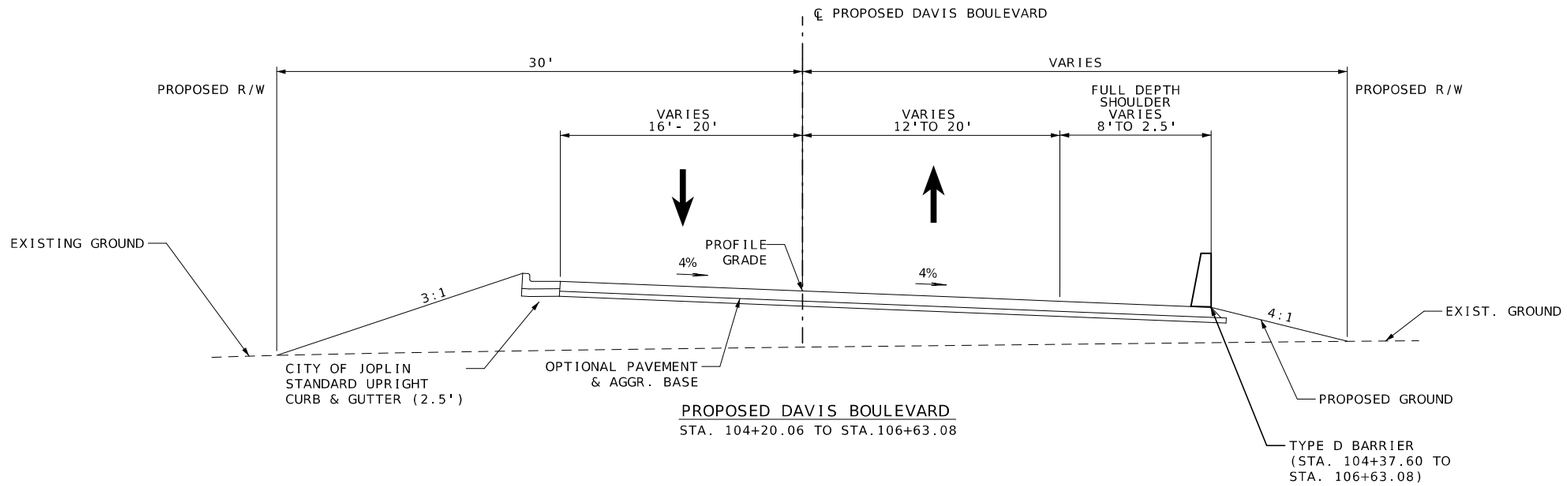
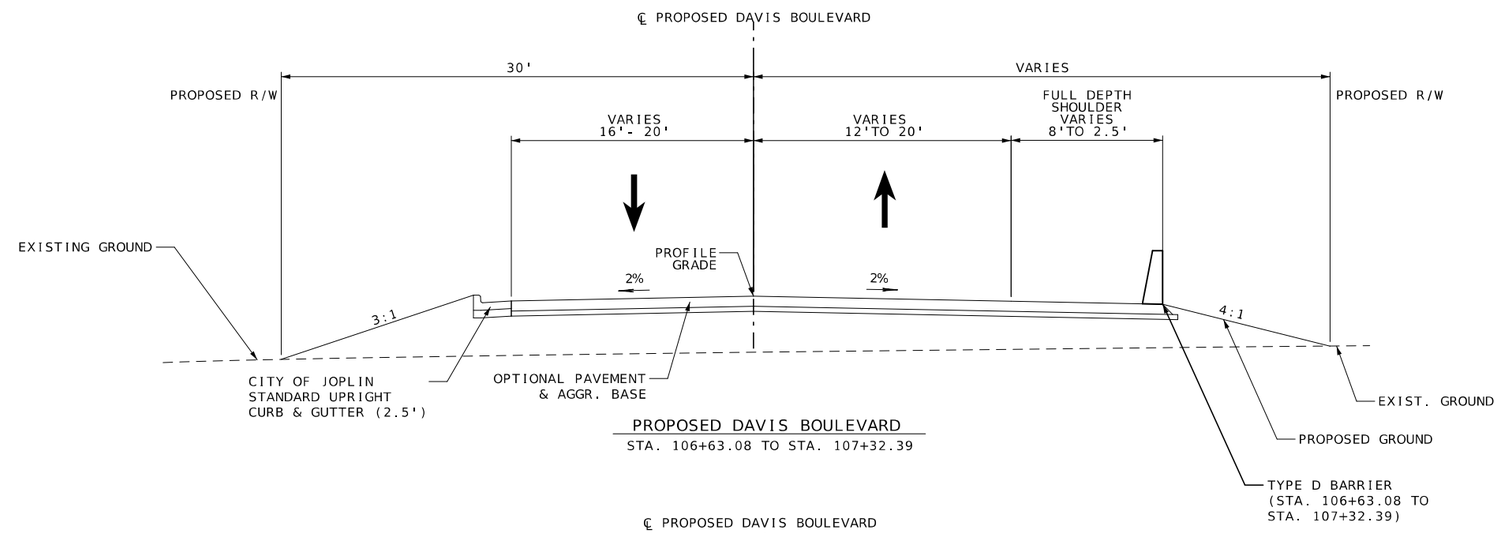
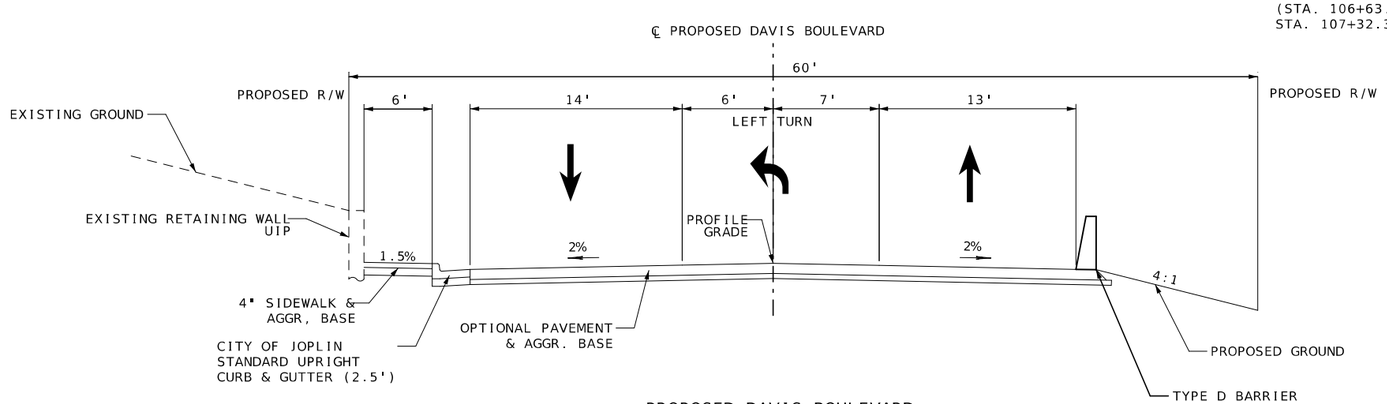


PROPOSED DAVIS BOULEVARD
STA. 104+20.06 TO STA.106+63.08



PROPOSED DAVIS BOULEVARD
STA. 106+63.08 TO STA. 107+32.39



PROPOSED DAVIS BOULEVARD
STA. 107+32.39 TO STA. 107+71.93

TYPICAL SECTION SHEET
DAVIS BOULEVARD
SHEET 3 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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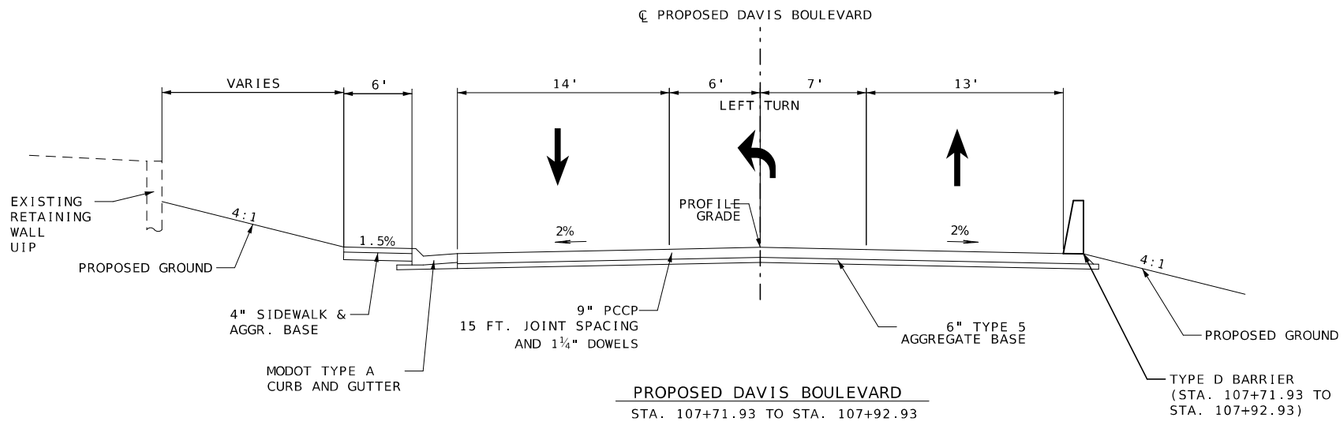
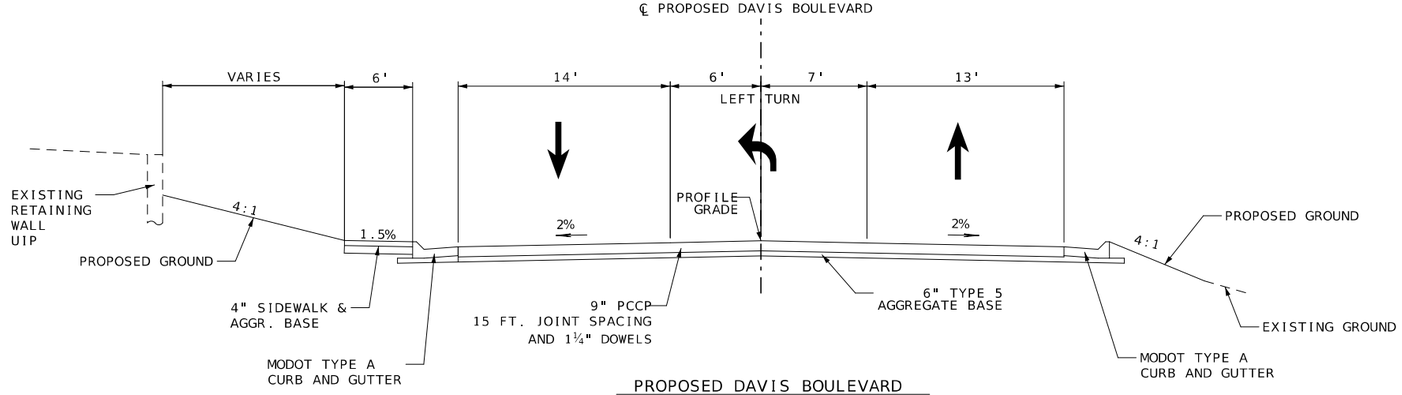


PROPOSED DAVIS BOULEVARD

STA. 107+71.93 TO STA. 107+92.93



PROPOSED DAVIS BOULEVARD

STA. 107+92.93 TO STA. 108+44.40

TYPICAL SECTION SHEET
DAVIS BOULEVARD
SHEET 4 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

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DATE PREPARED	
2/28/2025	
ROUTE: FF	STATE: MO
DISTRICT: SW	SHEET NO.: 2
COUNTY: JASPER	
JOB NO.: J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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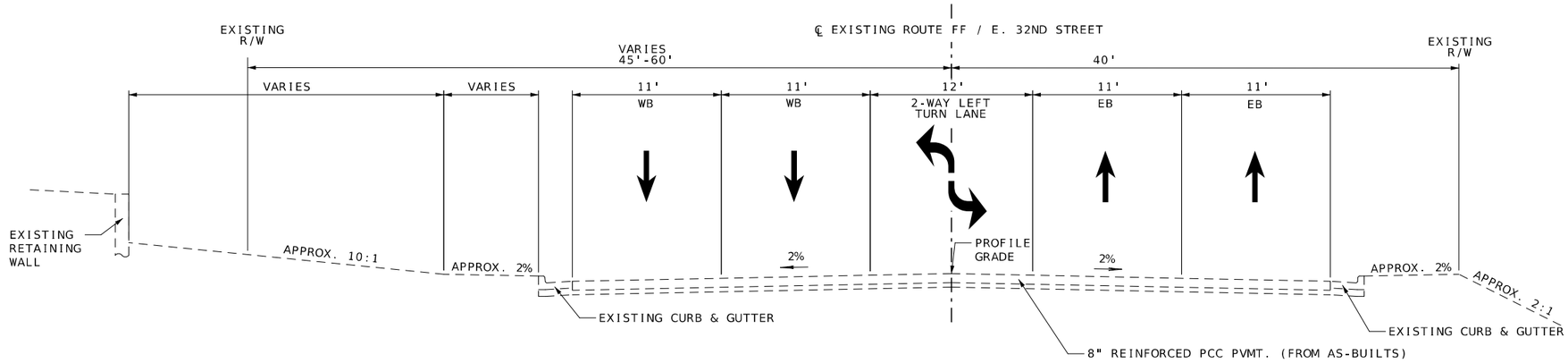
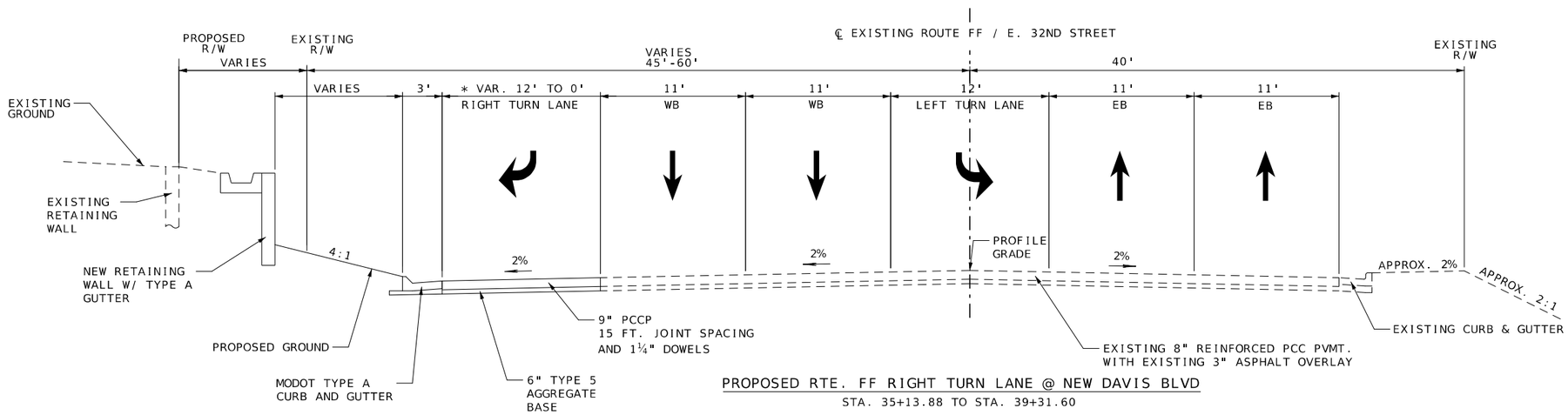


EXISTING RTE. FF/ E. 32ND ST.

STA. 33+42.00 TO STA. 35+13.88



PROPOSED RTE. FF RIGHT TURN LANE @ NEW DAVIS BLVD

STA. 35+13.88 TO STA. 39+31.60

* VARIES 12' TO 0' STA. 37+63.53 TO STA. 39+31.60

TYPICAL SECTION SHEET
ROUTE FF
SHEET 5 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
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DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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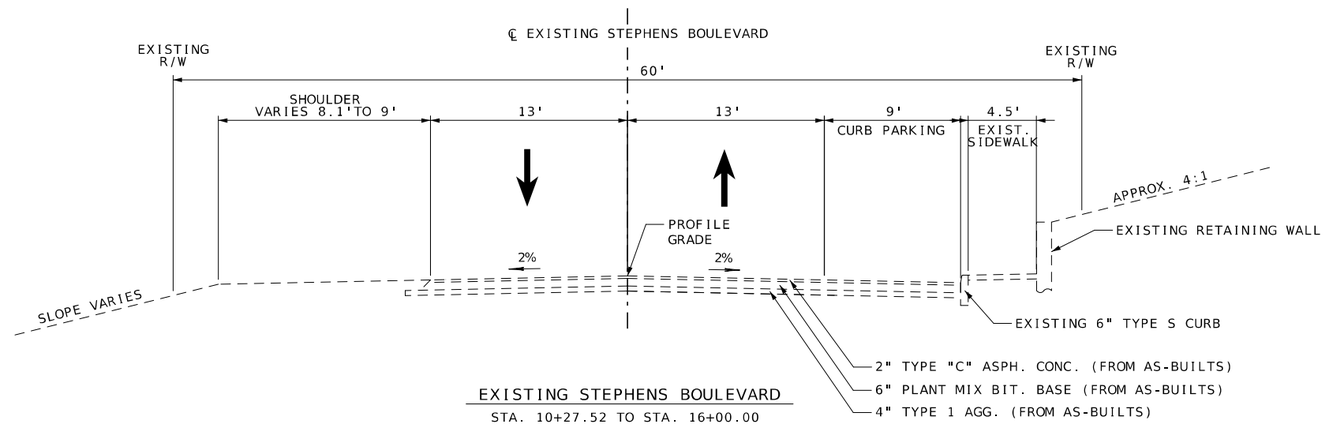
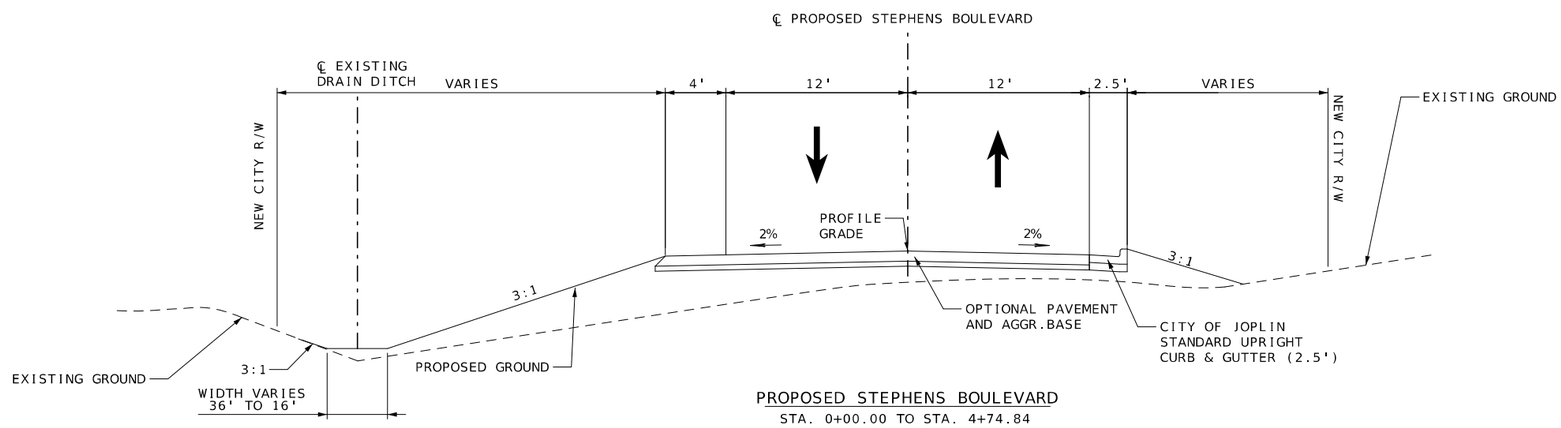


EXISTING STEPHENS BOULEVARD

STA. 10+27.52 TO STA. 16+00.00



PROPOSED STEPHENS BOULEVARD

STA. 0+00.00 TO STA. 4+74.84

OPTIONAL PAVEMENT DESIGN				
LOCATION	BASE TYPE	ASPHALT OPTION (2)	CONCRETE (2) OPTION	SHOULDERS (3)
STEPHENS BLVD	6" TYPE 5 AGGREGATE BASE	10.5" HMA 2" SP125 W/ PG 70-22 OVER 2" SP125 W/ PG 70-22 OVER 6.5" SP250 W/ PG 64-22	9" PCCP 15 FT. JOINT SPACING AND 1¼" DOWELS	FULL DEPTH SHOULDER

(2) DESIGNED PAVEMENT THICKNESSES BASED ON FULL DEPTH PAVEMENT WIDTH EXTENDED A MINIMUM OF 24" BEYOND THE STRIPED EDGE LINE LOCATION

(3) SHOULDERS 4' OR LESS IN WIDTH MAY BE CONSTRUCTED AS FULL DEPTH PAVEMENT AS PART OF TRAVEL WAY

TYPICAL SECTION SHEET
STEPHENS BOULEVARD
SHEET 6 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

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DATE PREPARED 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2

COUNTY JASPER

JOB NO. J7S3059B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West

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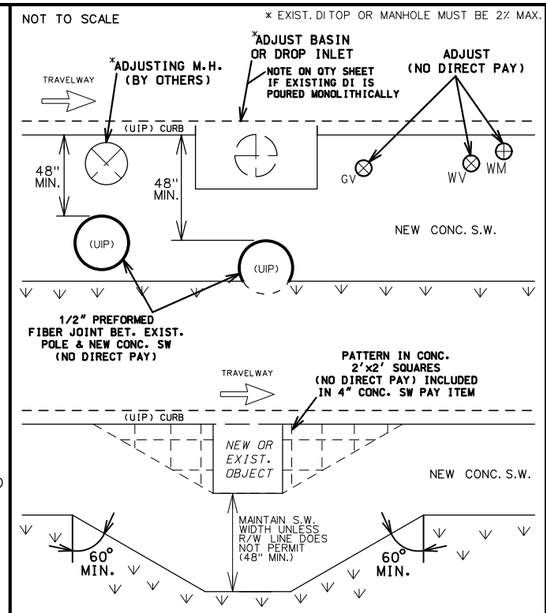
1. CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM TO ADA REQUIREMENTS UNLESS NOTED OTHERWISE IN THESE PLANS. FOR SIDEWALK JOINT AND CURB DETAILS, SEE STANDARD PLAN 609.00.
2. TINTED CONCRETE SHALL NOT BE USED. TRUNCATED DOMES SHALL BE OF A COLOR CONTRASTING WITH UNTINTED CONCRETE AND APPROVED BY THE ENGINEER. TRUNCATED DOMES ARE REQ'D. AT STREET INTERSECTIONS AND COMMERCIAL ENTRANCES WITH TRAFFIC CONTROL ONLY. (STOP/YIELD SIGNS OR SIGNALS)
3. CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
4. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE 4" THICK, WITH THE EXCEPTION OF THE BOTTOM TRANSITION WHICH TIES INTO THE EXISTING PAVED APPROACH AND ROADWAY. THIS TRANSITION, OR LANDING AREA, MUST BE 8" THICK IF IT FALLS WITHIN THE RADIUS OF THE APPROACH AND SITS AT THE BACK OF CURB OF THE ROADWAY. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE ON 4" TYPE 1 AGGREGATE BASE.
5. AGGREGATE BASE DENSITY - CONTRACTOR SHALL EXERCISE GOOD COMPACTIVE EFFORT AS APPROVED BY THE ENGINEER. DENSITY REQUIREMENTS BY NUCLEAR METHOD WILL NOT BE REQUIRED DUE TO WORK AREA CONSTRAINTS.
6. CONCRETE CURB RAMP - WIDTH = 5' MIN. LENGTH = 5' MIN. TO 15' PREFERRED MAX. (16' MAX.)
   RUNNING SLOPE = >5% (MIN.) TO 8.33% (MAX.) UNIFORMLY DOWN THE LENGTH OF THE RAMP.

   CONCRETE LANDING - WIDTH = TO MATCH PROPOSED CURB RAMP AND SIDEWALK WIDTH LENGTH = 5' MIN.
   SLOPE IN ALL DIRECTIONS = 1% PREFERRED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
7. ALL EXISTING UTILITIES SHALL BE USED IN PLACE UNLESS OTHERWISE NOTED. ALL MANHOLE OR VALVE COVER, ETC. ELEVATIONS SHALL BE ADJUSTED AS REQUIRED IF THEY ARE LOCATED WITHIN THE IMPROVEMENT AREA.
8. "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
9. REINFORCING STEEL TIE BARS SHALL BE IN ACCORDANCE WITH SECTION 706. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND USED AS APPROVED BY THE ENGINEER. WHERE TIE BARS ARE USED, THE CONCRETE SHALL BE 8" THICK (NO DIRECT PAY).
10. CONSTRUCTION AND LENGTH OF EACH CURB RAMP INCLUDING LANDINGS AND TRANSITION AREAS SHALL BE AS SHOWN ON THE PLANS UNLESS DIFFERING FIELD CONDITIONS ARE FOUND OR AS APPROVED BY THE ENGINEER. CURB RAMP CROSS SLOPES SHALL BE 1% PREFERRED (2% MAX.) TOWARD THE STREET. CURB RAMPS ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
11. SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMPS OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
12. S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
13. SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.

NOT TO SCALE

* EXIST. DI TOP OR MANHOLE MUST BE 2% MAX.

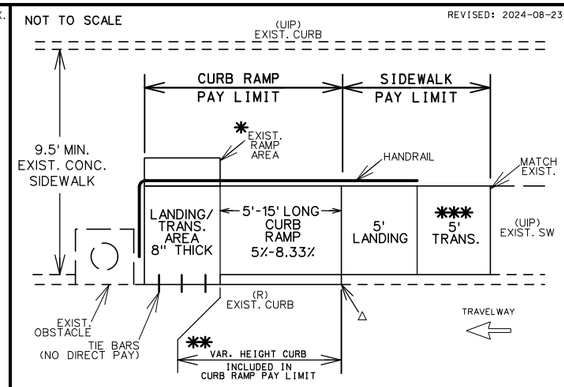


UTILITIES OR VARIOUS OBSTACLES

NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AREAS AND SIDEWALK WITH A MINIMUM OF 4' CLEARANCE AROUND THE POLE

NOT TO SCALE

REVISED: 2024-08-23



△ MATCH EXIST CURB

✱ FILL IN WHERE EXIST. RAMP WAS. SIZE WILL VARY. (SEE TYPICAL SHEET)

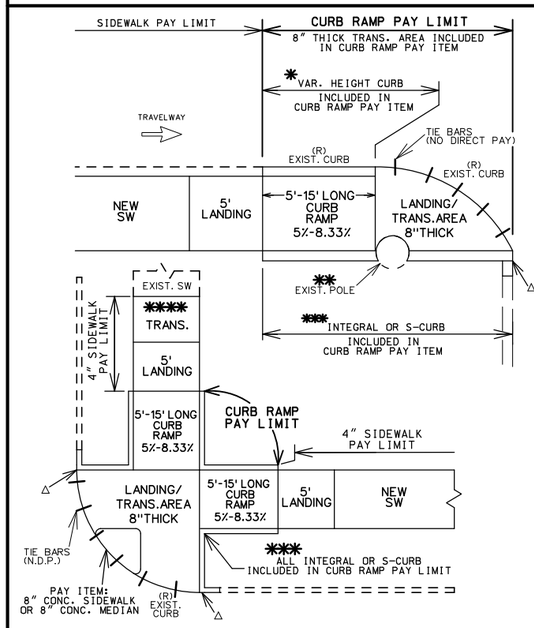
✱✱ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

✱✱✱ TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

HANDRAIL 2' OFF E.O.P (SEE HANDRAIL STANDARDS)

CURB RAMP - IN EXISTING 9.5'+ WIDE SW

PAY LIMITS



△ MATCH EXIST CURB HEIGHT, OPTIONAL 1' TIE-IN TO EXIST CURB

✱ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONST. MONOLITHIC OR SEP. DEPENDING ON CONST. OPERATIONS.

✱✱ NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AND TRANSITION AREAS.

✱✱✱ TYPE OF CURB WILL DEPEND ON FIELD CONDITIONS.

✱✱✱ TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

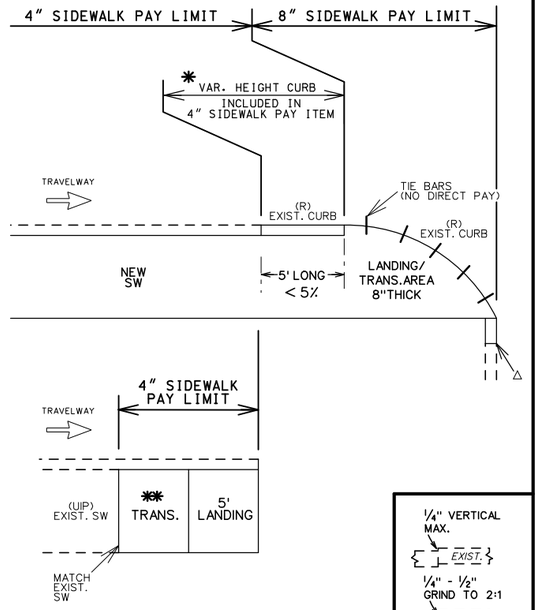
✱

CURB RAMP

PAY LIMITS

WHEN RAMP AREA IS LONGER THAN 5' AND BETW. 5%-8.33% GRADE, IT IS CONSIDERED A CURB RAMP

NOT TO SCALE



△ MATCH EXIST CURB HEIGHT (1' TAPER FROM SIDEWALK UP TO EXIST CURB HEIGHT)

✱ VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS. DOWEL TO EXIST. GUTTER/PAVEMENT (NO DIRECT PAY).

✱✱ TRANSITION PANEL(S) TO BLEND CROSS SLOPE DISCREPENCY WARP RATE NOT TO EXCEED 0.5% PER FT

SIDEWALK

PAY LIMITS

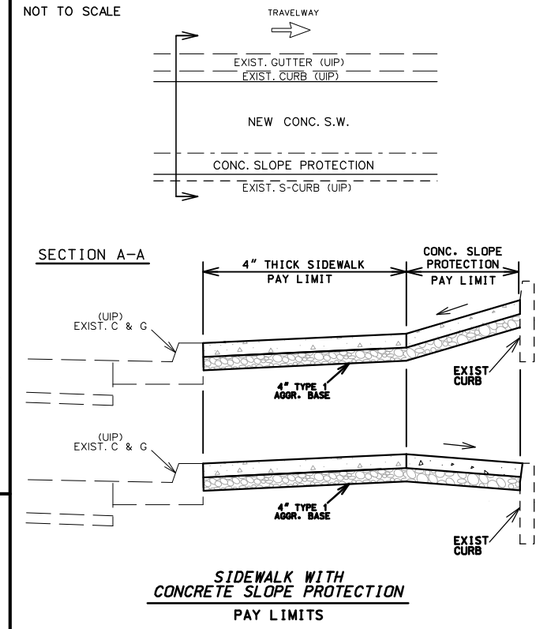
WHEN RAMP AREA IS LESS THAN 5% GRADE, IT IS CONSIDERED SIDEWALK

NOT TO SCALE

JOINT GRINDING

TRIP HAZARDS 622-99.03

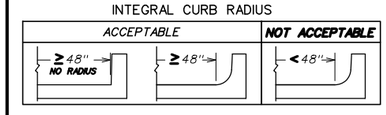
NOT TO SCALE



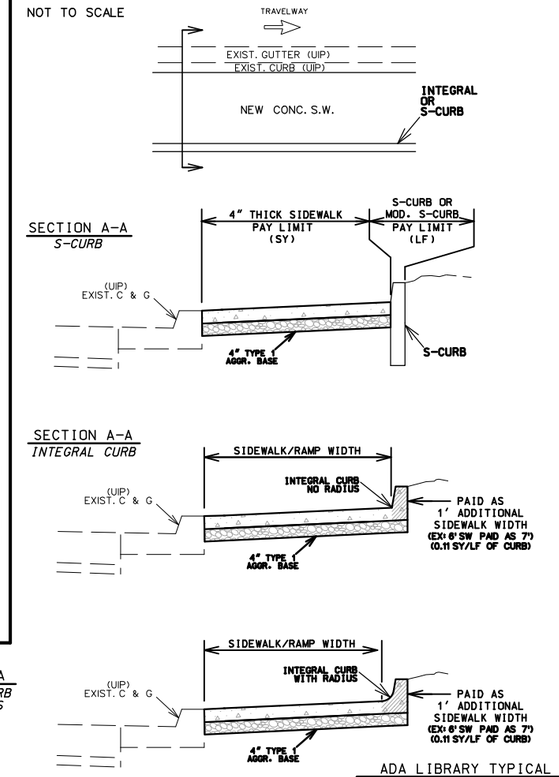
SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

INTEGRAL CURB RADIUS



NOT TO SCALE



ADA LIBRARY TYPICAL

SIDEWALK & RAMP WITH CURB

PAY LIMITS

TYPICAL SHEET
SHEET 7 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

REVISED: 2022-05-18

PERPENDICULAR – TYPE 1

TYPE 1-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	12.0	–	10.0	12.0	–	10.0	12.0	
CURB RAMP	SY	–	8.2	12.8	–	10.8	12.7	–	13.5	15.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	6.4	
TYPE 1 AGGREGATE	SY	–	13.8	16.0	–	16.4	19.1	–	18.3	22.2	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	27.5	27.5	–	30.0	30.5	
SODDING	SY	–	5.8	5.7	–	6.8	6.9	–	7.5	7.9	

TYPE 1-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	22.0	24.0	–	22.0	24.0	–	22.0	24.0	
CURB RAMP	SY	–	10.9	13.1	–	13.6	16.3	–	16.2	19.3	
CONC. SIDEWALK	SY	–	5.6	6.3	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	16.5	19.4	–	19.2	22.7	–	21.1	25.0	
ADA LINEAR GRADING	LF	–	28.0	28.0	–	34.5	34.5	–	38.0	38.0	
SODDING	SY	–	7.4	7.8	–	8.4	8.7	–	9.1	9.5	

TYPE 1-C

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	12.0	–	10.0	12.0	–	10.0	12.0	
CURB RAMP	SY	–	8.8	10.3	–	11.5	13.4	–	14.1	16.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	14.4	16.7	–	17.1	19.8	–	19.0	22.1	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	26.5	26.5	–	30.0	30.0	
SODDING	SY	–	11.5	11.7	–	13.5	13.5	–	15.0	15.2	

TYPE 1-D

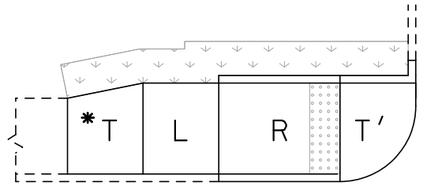
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	LF	–	42.0	50.0	–	57.0	61.0	–	67.0	72.0	
SODDING	SY	–	11.0	11.3	–	13.0	13.3	–	14.5	14.9	

TYPE 1-E

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	13.3	13.6	–	16.0	16.9	–	18.6	19.3	

TYPE 1-F

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	18.4	18.8	–	22.4	22.8	–	25.6	25.9	



TYPE 1-A

T'- IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED AT PAVED APPROACH IF CONDITIONS ALLOW)

– IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

– LANDING

– RAMP

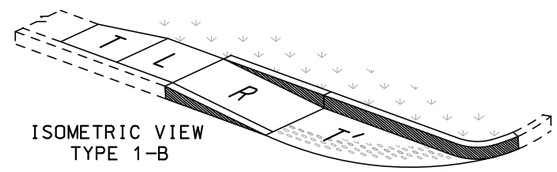
– CURB RAMP PAY LIMITS

– SOD SLOPE 6:1 MIN.

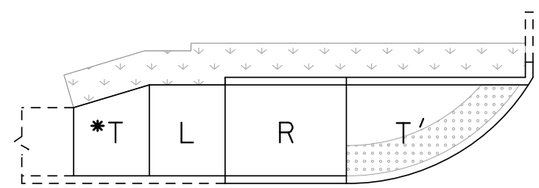
– TRUNCATED DOME LOCATION, IF DIST. IS 5' OR 5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

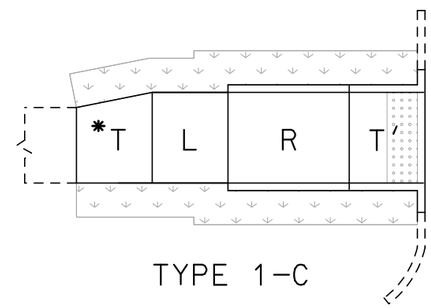
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



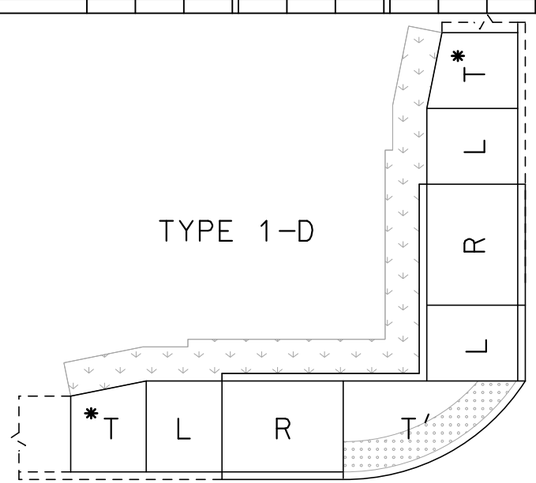
ISOMETRIC VIEW
TYPE 1-B



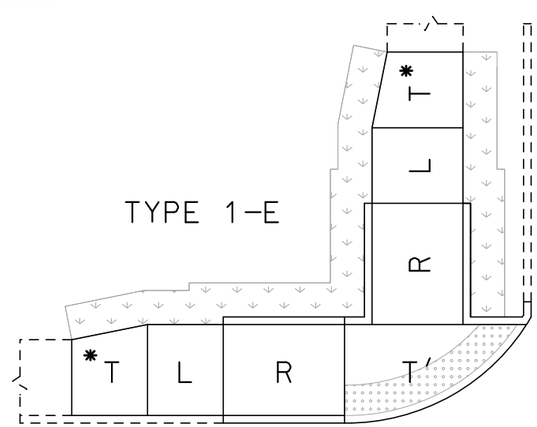
TYPE 1-B



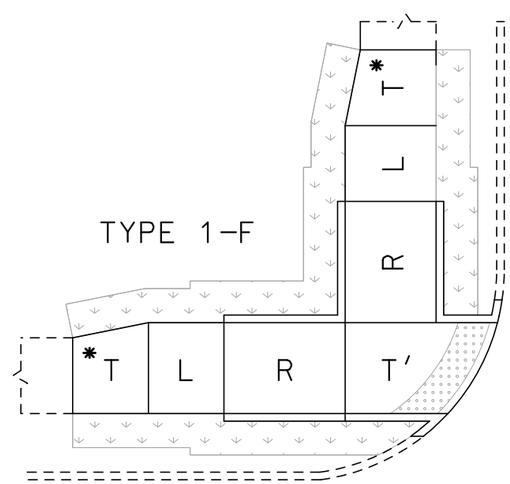
TYPE 1-C



TYPE 1-D



TYPE 1-E



TYPE 1-F

ADA LIBRARY TYPICAL

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET 8 OF 14

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

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: JASPER

JOB NO.: J7S3059B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REVISED: 2022-05-18

PARALLEL – TYPE 2

TYPE 2-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	9.1	10.6	–	11.8	13.7	–	14.4	16.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	14.7	17.0	–	16.7	19.4	–	19.3	22.5	
ADA LINEAR GRADING	LF	–	26.0	26.0	–	29.0	29.0	–	33.0	33.0	
SODDING	SY	–	8.0	8.3	–	8.6	8.8	–	9.6	9.8	

TYPE 2-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	11.8	13.3	–	14.5	16.4	–	17.2	19.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	17.4	19.7	–	19.4	22.1	–	22.1	25.2	
ADA LINEAR GRADING	LF	–	26.0	26.0	–	29.0	29.0	–	33.0	33.0	
SODDING	SY	–	13.8	14.1	–	15.1	15.5	–	17.1	17.5	

TYPE 2-C

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	16.4	18.7	–	21.7	24.9	–	27.0	31.2	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	27.6	31.5	–	31.5	36.3	–	36.8	42.6	
ADA LINEAR GRADING	LF	–	41.0	41.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	12.3	12.5	–	13.6	13.9	–	15.6	15.9	

TYPE 2-D

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	16.8	19.2	–	22.2	25.4	–	27.5	31.6	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	28.0	32.0	–	32.0	36.8	–	37.3	43.0	
ADA LINEAR GRADING	LF	–	41.0	41.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	20.2	20.3	–	22.4	23.2	–	26.4	27.2	

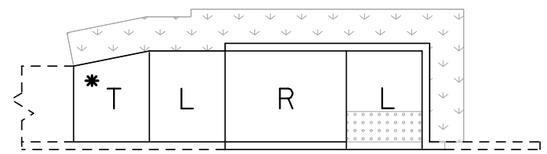
TYPE 2-E

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	10.8	11.5	–	13.2	14.4	–	15.7	17.3	
CONC. SIDEWALK	SY	–	5.6	6.7	–	5.0	6.0	–	5.0	6.0	
TYPE 1 AGGREGATE	SY	–	16.4	18.2	–	18.2	20.4	–	20.7	23.3	
ADA LINEAR GRADING	LF	–	22.5	22.5	–	26.5	26.5	–	30.5	30.5	
SODDING	SY	–	–	–	–	–	–	–	–	–	
HANDRAIL	LF	–	–	–	–	–	–	–	–	–	SEE STANDARDS FOR LENGTH

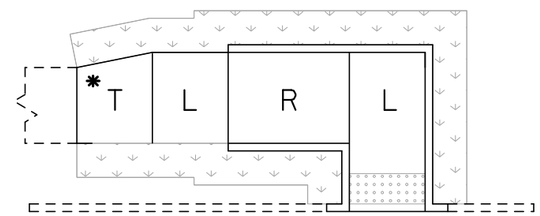
TYPE 2-F

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	15.5	17.1	–	20.4	23.1	–	25.5	28.9	
CONC. SIDEWALK	SY	–	11.2	13.4	–	10.0	12.0	–	10.0	12.0	
TYPE 1 AGGREGATE	SY	–	26.7	30.5	–	30.4	35.1	–	35.5	40.9	
ADA LINEAR GRADING	LF	–	39.0	39.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	–	–	–	–	–	–	–	–	
HANDRAIL	LF	–	–	–	–	–	–	–	–	–	SEE STANDARDS FOR LENGTH

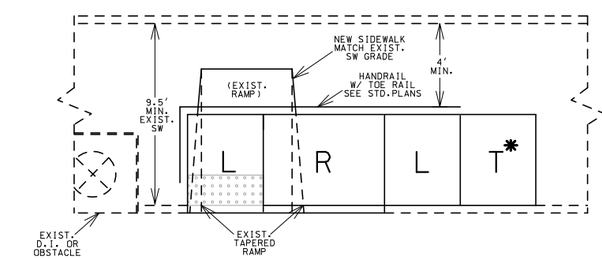
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 2-A



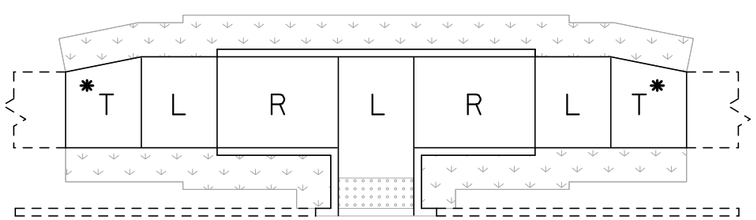
TYPE 2-B



TYPE 2-E

USE ONLY WHEN TYPE 2-F IS UNABLE TO BE CONSTRUCTED DUE TO AN EXIST. D.I. OR OTHER OBSTACLE

SEE STANDARDS FOR HANDRAIL SPECS



TYPE 2-D

** 3.5' LANDING EXTENSION REQ'D. FOR INSTALLATION OF FUTURE OR NEW PED.PUSH BUTTON

NOTE: SEE STANDARDS FOR ALL PED. PUSH BUTTON LOCATIONS

– TRUNCATED DOME

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

T – TRANSITION TO EXISTING SW

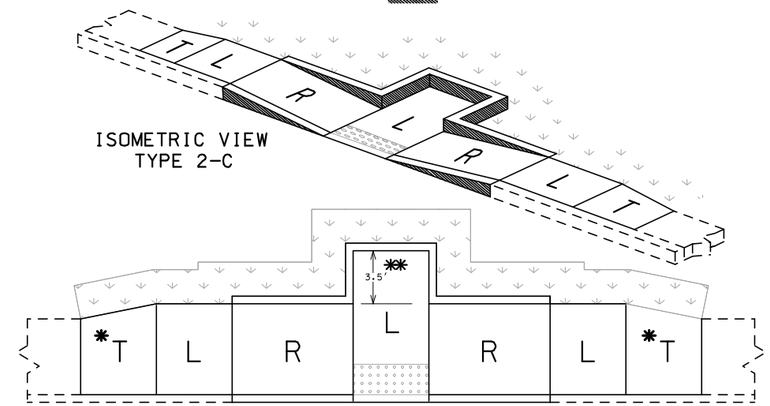
* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

R – RAMP

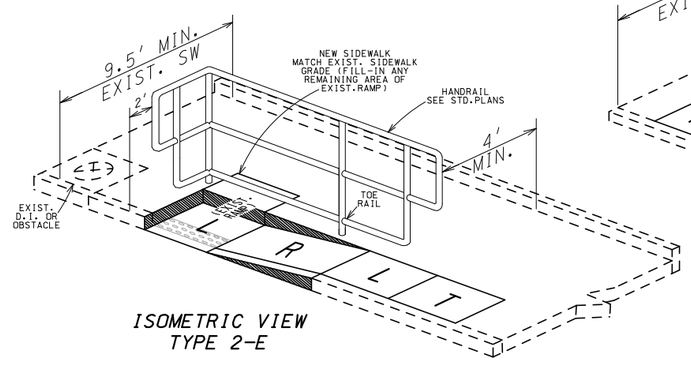
– SOD SLOPE 6:1 MIN.

– CURB RAMP PAY LIMITS

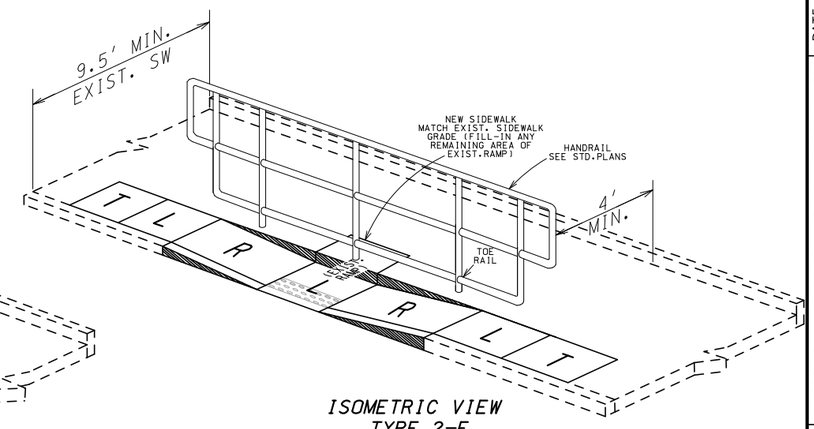


ISOMETRIC VIEW
TYPE 2-C

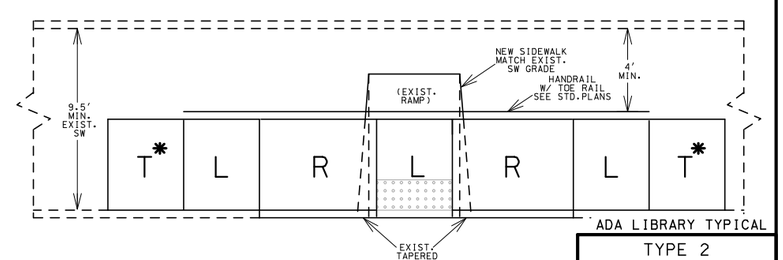
TYPE 2-C



ISOMETRIC VIEW
TYPE 2-E



ISOMETRIC VIEW
TYPE 2-F



ADA LIBRARY TYPICAL

TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

TYPE 2

PARALLEL
CURB RAMPS

TYPICAL SHEET
9 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 2/28/2025
ROUTE: FF
STATE: MO
DISTRICT: SW
SHEET NO.: 2
COUNTY: JASPER
JOB NO.: J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

REVISED: 2022-05-18

PARALLEL - TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP	SY	-	15.7	18.0	-	20.8	23.7	-	25.8	30.2	
CONC. SIDEWALK	SY	-	21.4	25.0	-	17.6	20.3	-	15.2	17.5	
TYPE 1 AGGREGATE	SY	-	37.1	43.0	-	38.4	44.0	-	41.0	47.7	
ADA LINEAR GRADING	LF	-	52.0	52.0	-	54.0	54.0	-	58.0	58.0	
SODDING	SY	-	13.6	13.6	-	13.7	13.5	-	14.5	14.9	

TYPE 2-H

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP	SY	-	15.7	18.0	-	21.0	24.5	-	26.9	31.4	
CONC. SIDEWALK	SY	-	13.2	16.0	-	12.0	14.2	-	12.0	14.4	
TYPE 1 AGGREGATE	SY	-	28.9	34.0	-	33.0	38.6	-	38.9	45.8	
ADA LINEAR GRADING	LF	-	42.0	42.0	-	49.0	49.0	-	55.0	55.0	
SODDING	SY	-	11.1	11.2	-	12.5	12.5	-	14.5	14.9	

T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

- SOD SLOPE 6:1 MIN.

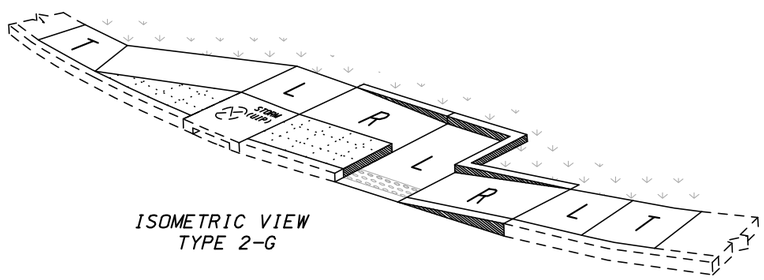
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

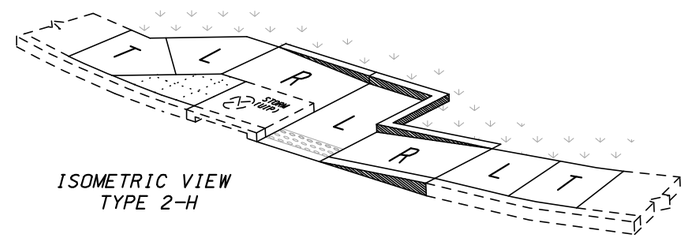
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

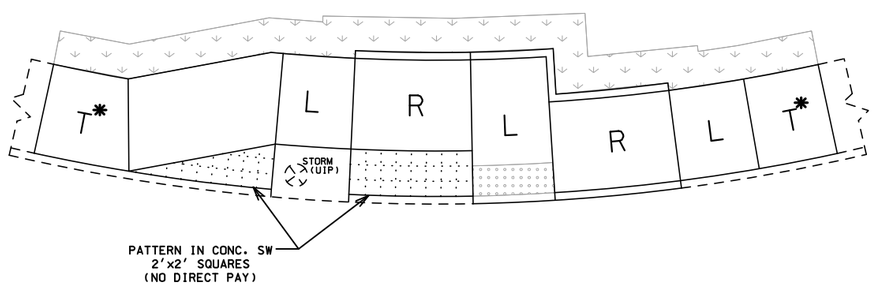
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



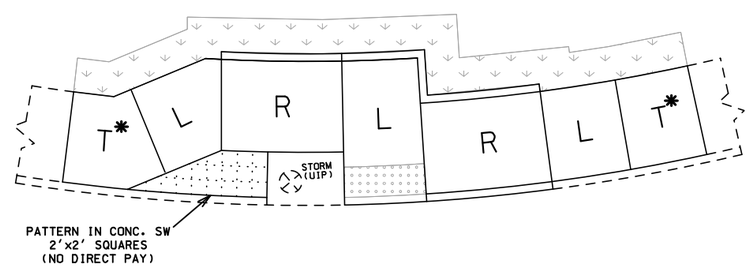
ISOMETRIC VIEW
TYPE 2-G



ISOMETRIC VIEW
TYPE 2-H



TYPE 2-G



TYPE 2-H

ADA LIBRARY TYPICAL

TYPE 2

PARALLEL CURB RAMPS

TYPICAL SHEET 10 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
2/28/2025	
ROUTE: FF	STATE: MO
DISTRICT: SW	SHEET NO.: 2
COUNTY: JASPER	
JOB NO.: J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

REVISED: 2022-05-18

DIAGONAL – TYPE 3

TYPE 3-A

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP SY	–	24.4	27.0	–	26.9	31.2	–	32.2	37.4	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	35.6	39.8	–	36.7	42.6	–	42.0	48.8	
ADA LINEAR GRADING LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING SY	–	11.6	11.4	–	12.9	12.9	–	14.9	14.9	
8"SW OR MED STRIP SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP SY	–	22.0	26.3	–	25.9	31.2	–	31.2	37.4	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	33.2	39.1	–	35.7	42.6	–	41.0	48.8	
ADA LINEAR GRADING LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING SY	–	15.2	15.3	–	17.1	17.5	–	20.1	20.5	
8"SW OR MED STRIP SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	20.7	26.8	–	25.1	31.5	–	30.4	37.7	
CONC. SIDEWALK SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE SY	–	31.9	39.6	–	34.9	42.9	–	40.2	49.1	
ADA LINEAR GRADING LF	–	51.0	51.0	–	58.0	58.0	–	67.0	67.0	
SODDING SY	–	18.8	19.3	–	21.3	22.1	–	25.3	26.1	
8"SW OR MED STRIP SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

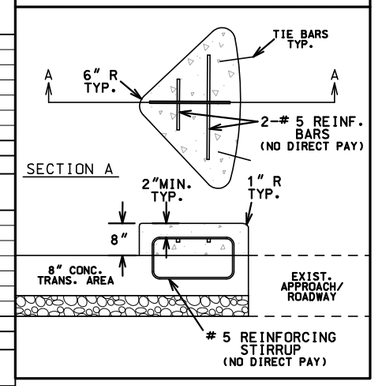
TYPE 3-D

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	24.0	28.0	–	22.4	26.5	–	22.4	26.5	
CURB RAMP SY	–	15.9	19.1	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE SY	–	21.5	25.5	–	22.6	27.1	–	25.3	30.2	
ADA LINEAR GRADING LF	–	31.0	31.0	–	34.0	34.0	–	38.0	38.0	
SODDING SY	–	12.6	12.9	–	13.5	14.0	–	15.5	16.0	
8"SW OR MED STRIP SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP SY	–	17.2	19.8	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK SY	–	8.4	10.7	–	7.3	9.4	–	7.3	9.4	
TYPE 1 AGGREGATE SY	–	25.6	30.5	–	25.0	30.8	–	27.7	33.9	
ADA LINEAR GRADING LF	–	30.0	30.0	–	35.5	35.5	–	39.5	39.5	
SODDING SY	–	12.4	12.4	–	12.9	13.3	–	14.9	15.3	
8"SW OR MED STRIP SY	–	1.6	1.6	–	1.6	1.6	–	1.6	1.6	

– DETAIL – 8" SIDEWALK OR 8" MEDIAN STRIP



T′ – IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS IF WITHIN THE RADIUS. PAID FOR AS CONCRETE CURB RAMP

NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.

T – TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED IF CONDITIONS ALLOW)

T* – IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE WITH THE NEW LANDING XSLOPE)

L – LANDING

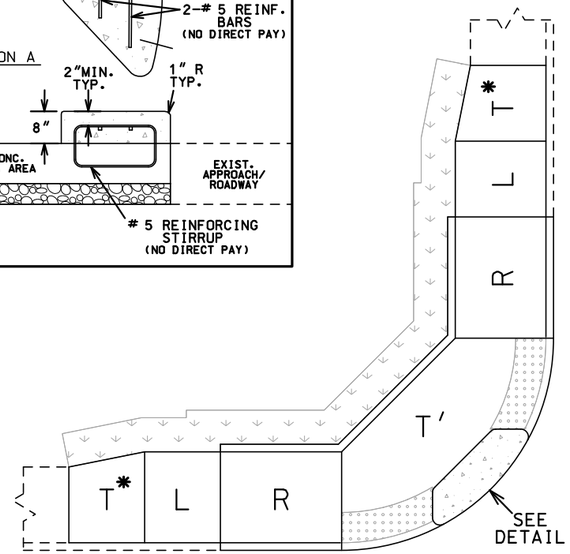
R – RAMP

– CURB RAMP PAY LIMITS

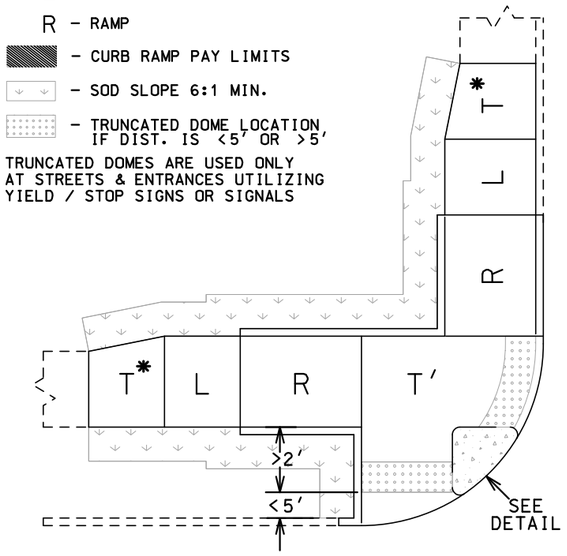
– SOD SLOPE 6:1 MIN.

– TRUNCATED DOME LOCATION, IF DIST. IS <5′ OR >5′

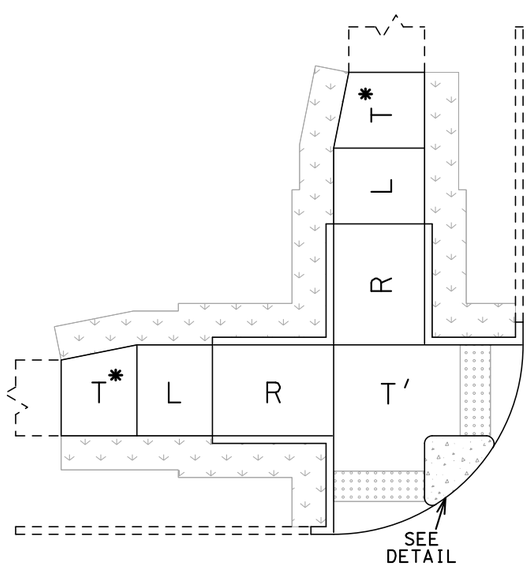
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



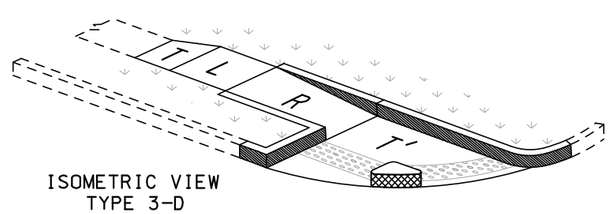
TYPE 3-A



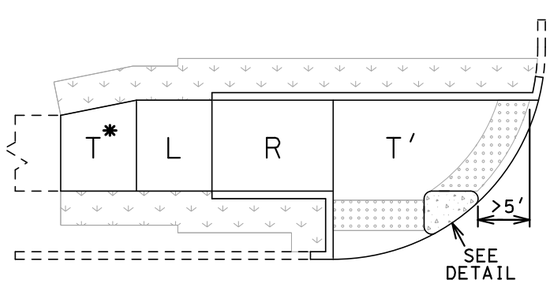
TYPE 3-B



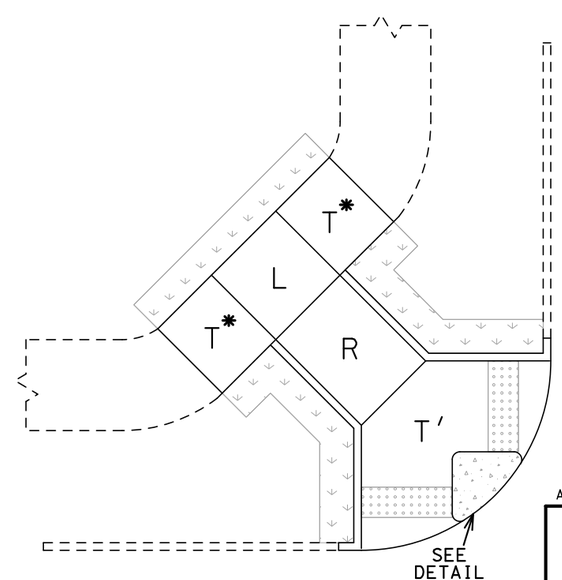
TYPE 3-C



ISOMETRIC VIEW
TYPE 3-D



TYPE 3-D



TYPE 3-E

ADA LIBRARY TYPICAL

TYPE 3

DIAGONAL CURB RAMPS

TYPICAL SHEET 11 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: JASPER

JOB NO. J7S3059B

CONTRACT ID.

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REV.

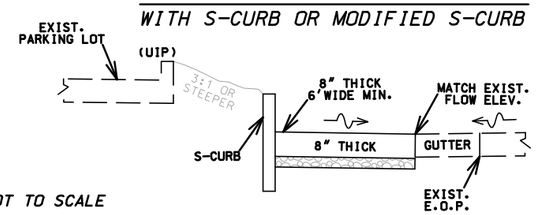
REVISED: 2022-05-16

NOTES FOR MODIFIED SIDEWALK:

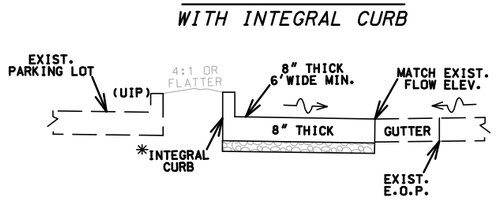
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8″ THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK PAID FOR AS 8″ SIDEWALK.
6. 6′ MINIMUM WIDTH.
7. NO DIRECT PAY FOR SAW CUTS AND TIE BARS (ON 12″ CENTERS MAX.)
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

✳ INTEGRAL CURB IS PAID FOR WITH THE 8″ CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1′ ADDITIONAL SIDEWALK WIDTH (EX. 6′SIDEWALK PAID AS 7′)
(0.11 SY/LF OF CURB)

SECTION A-A
WITH S-CURB OR MODIFIED S-CURB



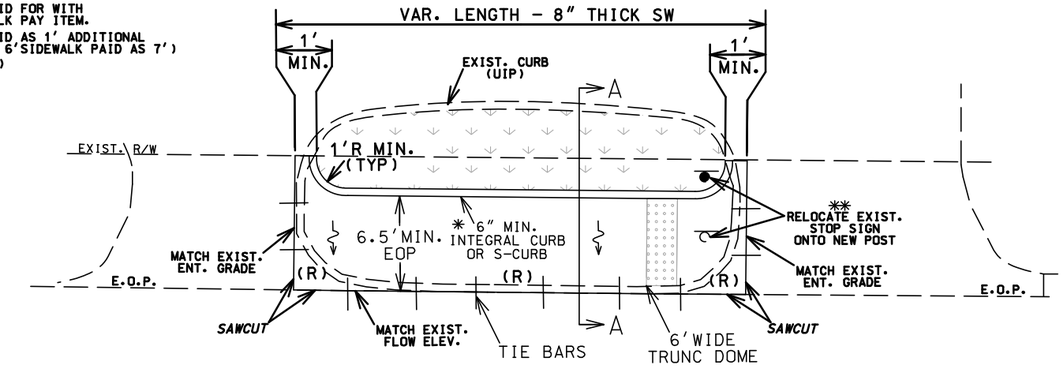
SECTION A-A
WITH INTEGRAL CURB



NOT TO SCALE

TYPICAL
MODIFIED SIDEWALK
8″ THICK

✳✳ TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.

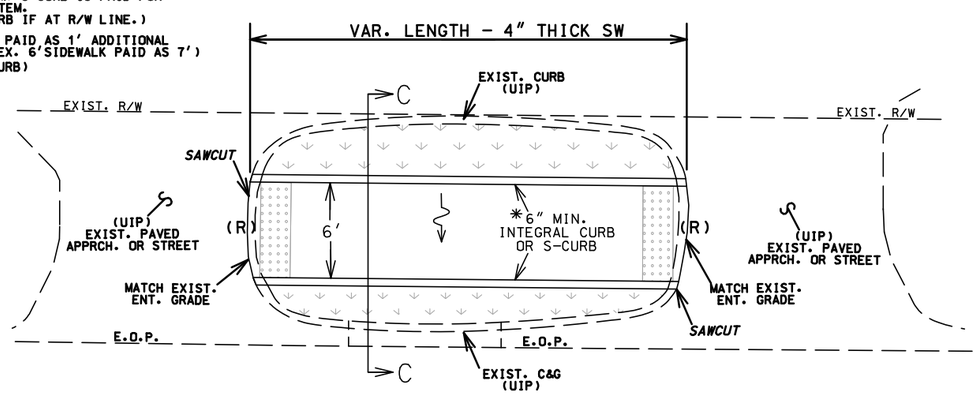


NOTES FOR CUT-THRU SIDEWALK:

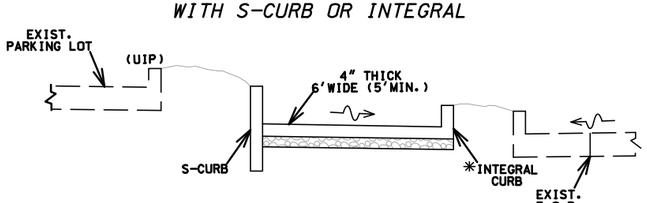
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4″ THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU SIDEWALK PAID FOR AS 4″ SIDEWALK.
6. 6′ PREFERRED WIDTH (5′ MIN.)
7. SAW CUTS (NO DIRECT PAY).
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

✳ INTEGRAL CURB IS PAID FOR AS 4″ CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM.
(ALWAYS USE S-CURB IF AT R/W LINE.)
INTEGRAL CURB IS PAID AS 1′ ADDITIONAL SIDEWALK WIDTH (EX. 6′SIDEWALK PAID AS 7′)
(0.11 SY/LF OF CURB)

TYPICAL
CUT-THRU SIDEWALK



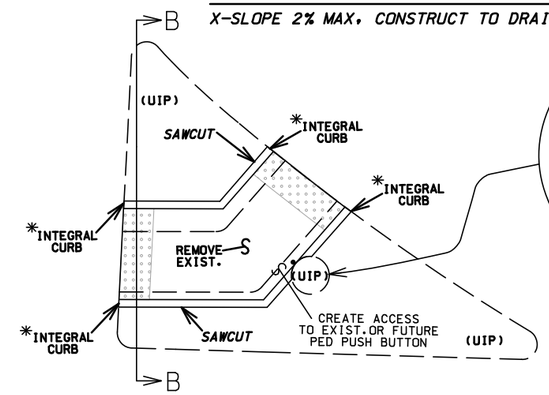
SECTION C-C
WITH S-CURB OR INTEGRAL

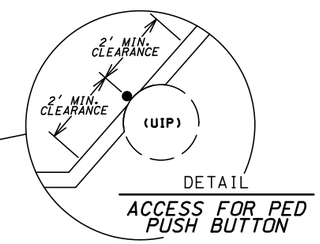


NOT TO SCALE

NOT TO SCALE

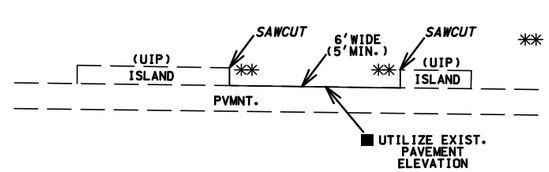
TYPICAL
ISLAND CUT-THRU SIDEWALK
X-SLOPE 2% MAX, CONSTRUCT TO DRAIN





DETAIL
ACCESS FOR PED PUSH BUTTON

SECTION B-B
ISLAND CUT-THRU SIDEWALK
FOR EXISTING 'PINNED-ON' ISLAND

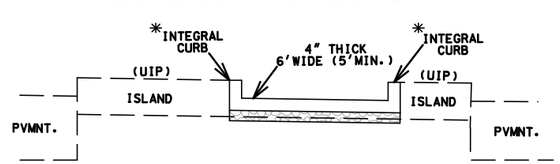


■ SMALL QTY. HAS BEEN INCLUDED FOR 8″ THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRUN IF FIELD CONDITIONS DO NOT WARRANT)

✳✳ NO INTEGRAL CURB, AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

✳ INTEGRAL CURB IS PAID FOR WITH THE 4″ CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1′ ADDITIONAL SIDEWALK WIDTH (EX. 6′SIDEWALK PAID AS 7′)
(0.11 SY/LF OF CURB)

SECTION B-B
ISLAND CUT-THRU SIDEWALK



ADA LIBRARY TYPICAL

MODIFIED SIDEWALK AND SIDEWALK CUT-THRUs

TYPICAL SHEET 12 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
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)

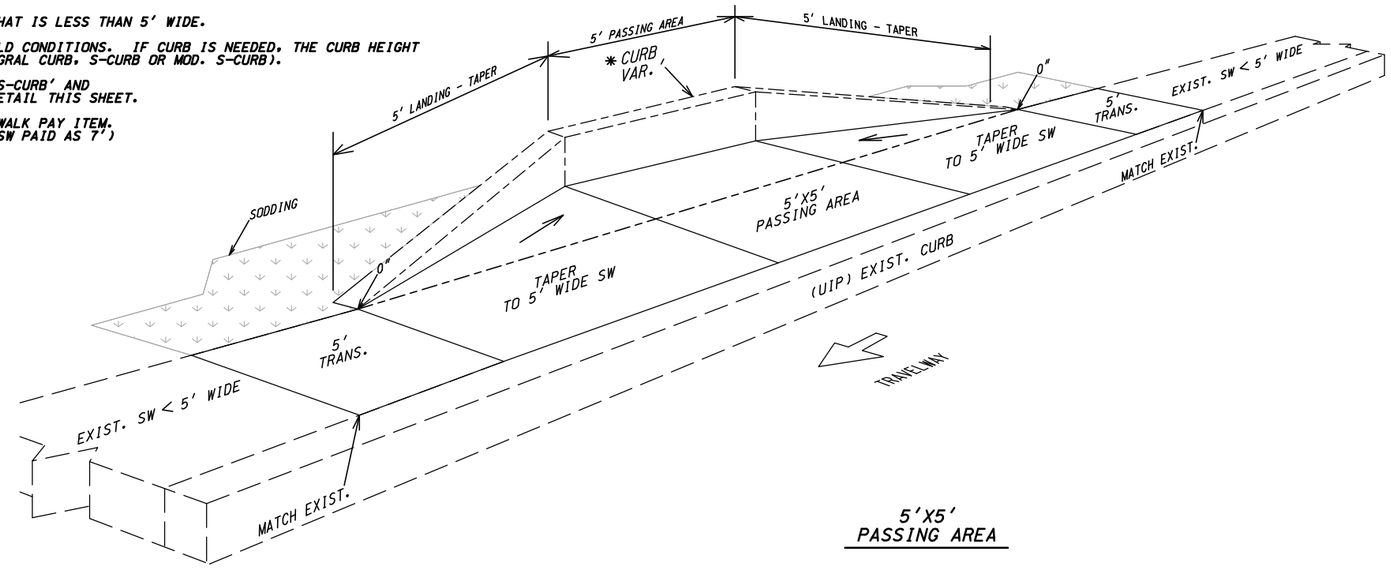
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

REVISED: 2024-01-18

NOTES:

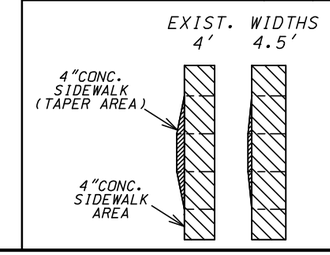
1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
2. * CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.
4. ** INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6' SW PAID AS 7') (0.11 SY/LF OF CURB)



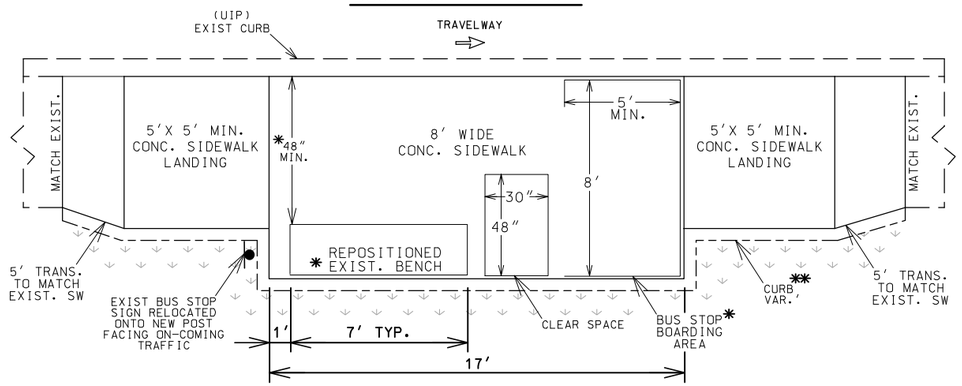
5'X5' PASSING AREA

NOT TO SCALE

QUANTITIES FOR PASSING AREAS			
EXISTING SW WIDTH		4'	4.5'
4" CONC. SIDEWALK (TAPER)	SY	1.3	0.7
TYPE 1 AGGREGATE	SY	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	11.7
TYPE 1 AGGREGATE	SY	10.4	11.7
INTEGRAL CURB **	SY	2.0	2.0
TYPE 1 AGGREGATE	SY	1.0	1.0
S-CURB	LF	17.2	16.0
MODIFIFED S-CURB	LF	17.2	16.0
SODDING	SY	53.0	53.0
LINEAR GRADING	LF	25.0	25.0



BUS STOP WITH BENCH



NOTES:

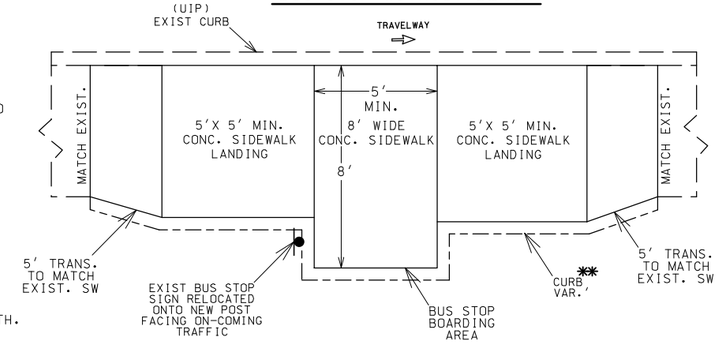
* 1. THE REPOSITIONED BENCH SHALL NOT BE PLACED ON THE 5'X8' BUS STOP BOARDING AREA. PLACE THE BACK OF THE BENCH AT THE BACK EDGE OF THE CONC. PAD TO PROVIDE MAX.CLEARANCE.

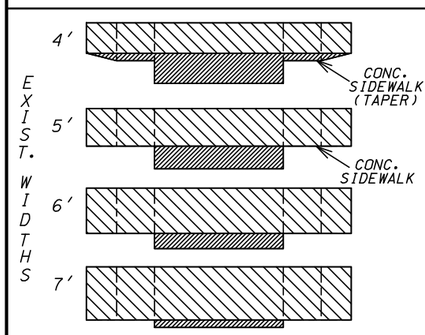
** 2. CURB USAGE DEPENDS ON FIELD CONDITIONS. IF CURB IS NEEDED DUE TO CUT, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).

3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.

*** 4. INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. INTEGRAL CURB PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6'SW PAID AS 7') (0.11 SY/LF OF CURB)

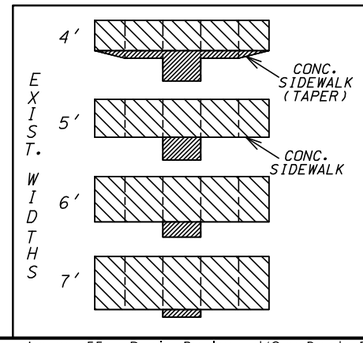
BUS STOP WITHOUT BENCH





QUANTITIES FOR BUS STOPS WITH BENCH					
EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	9.3	5.8	3.9	1.9
TYPE 1 AGGREGATE	SY	9.3	5.8	3.9	1.9
4" CONC. SIDEWALK	SY	16.5	20.4	24.3	28.2
TYPE 1 AGGREGATE	SY	16.5	20.4	24.3	28.2
INTEGRAL CURB ***	SY	5.4	3.4	3.2	2.9
TYPE 1 AGGREGATE	SY	2.7	1.7	1.6	1.5
S-CURB	LF	43.5	27.0	25.0	23.0
MODIFIFED S-CURB	LF	43.5	27.0	25.0	23.0
SODDING	SY	10.6	10.4	9.8	9.4
LINEAR GRADING	LF	37.0	37.0	37.0	37.0

NOT TO SCALE



QUANTITIES FOR BUS STOPS - NO BENCH					
EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	3.9	1.8	1.3	0.7
TYPE 1 AGGREGATE	SY	3.9	1.8	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	12.9	15.5	18.0
TYPE 1 AGGREGATE	SY	10.4	12.9	15.5	18.0
INTEGRAL CURB ***	SY	3.8	2.0	1.8	1.6
TYPE 1 AGGREGATE	SY	1.9	1.0	0.9	0.8
S-CURB	LF	31.0	15.0	13.0	11.0
MODIFIFED S-CURB	LF	31.0	15.0	13.0	11.0
SODDING	SY	7.6	7.4	6.8	6.4
LINEAR GRADING	LF	25.0	25.0	25.0	25.0

ADA LIBRARY TYPICAL

PASSING AREAS AND BUS STOPS

TYPICAL SHEET 13 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: JASPER

JOB NO. J7S3059B

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)

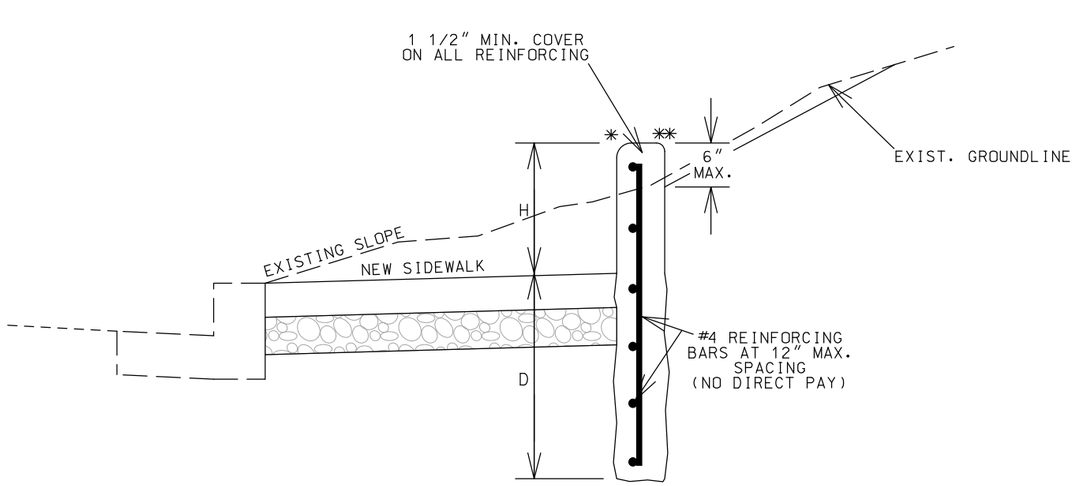
Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

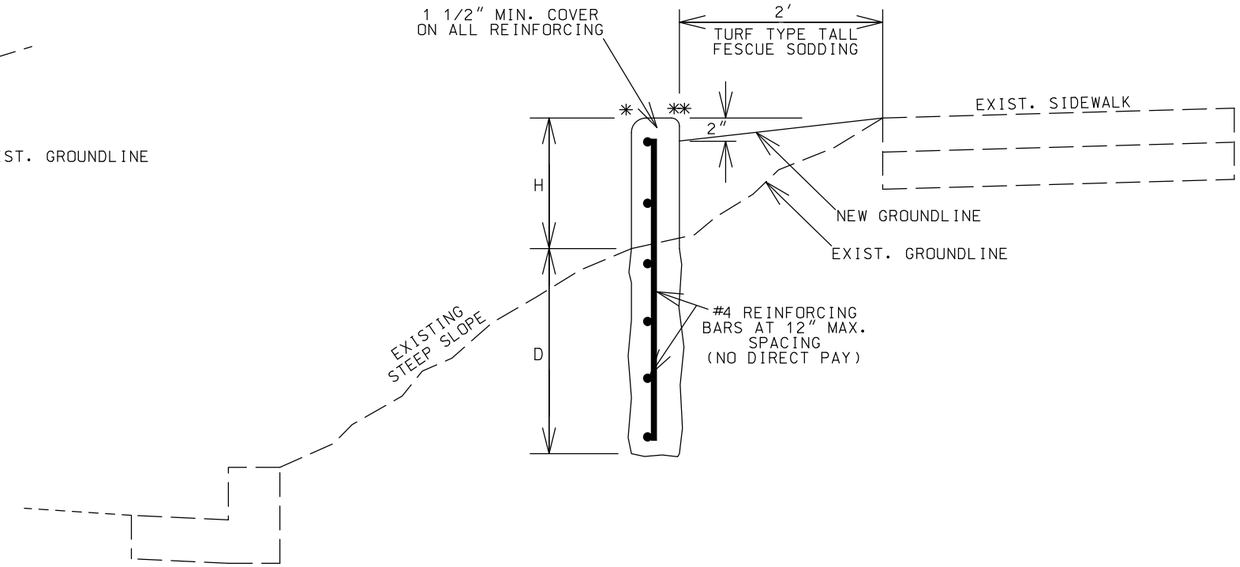
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

CREATED: 2023-11-16
REVISED: 2024-02-13

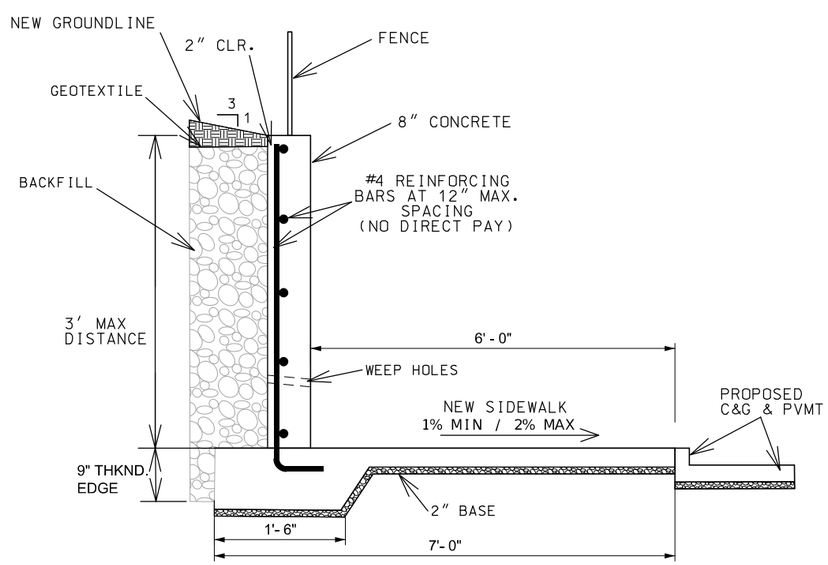
✳ ROUND TO 3/4" RADIUS
✳✳ ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

MODIFIED S-CURB
> 12" TALL (2'-6" MAX.)





NOT TO SCALE



MODIFIED S-CURB
> 12" TALL (3'-0" MAX.)
POURED CONCRETE SIDEWALK WALL

NOT TO SCALE

ADA LIBRARY TYPICAL

MODIFIED S-CURB

TYPICAL SHEET
14 OF 14

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

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

Bartlett & West
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

REV.

REMOVAL OF IMPROVEMENTS

ROUTE	STA.	STA.	LOCATION	DESCRIPTION	AMOUNT	UNIT	REMARKS
DAVIS	94+65.00	99+71.00	EXISTING DAVIS BLVD	PAVEMENT REMOVAL	1,883.7	SY	
DAVIS	98+96.00	99+71.00	RT	CURB & GUTTER	101.7	LF	
DAVIS	99+21.00	99+71.00	LT	CURB & GUTTER	70.0	LF	
DAVIS	94+65.00	-	CENTERLINE	SAW CUT	25.00	LF	
DAVIS	95+55.30	-	RT	SAW CUT	58	LF	
DAVIS	95+55.30	-	RT	PCCP ENTRANCE	212.2	SY	
EX. STEPHENS	0+27.78	8+00.00	CENTERLINE	PAVEMENT REMOVAL	3,284.2	SY	
RTE. FF	33+42.00	39+28.96	LT	SAW CUT	570.00	LF	
EX. STEPHENS	8+00.00	-	CENTERLINE	SAW CUT	25.00	LF	
RTE.FF	35+14.00	-	LT	INLET	1	EA	
RTE.FF	36+93.00	-	LT	INLET	1	EA	
RTE.FF	37+42.00	-	LT	INLET	1	EA	
STEPHENS	106+00.00	-	RT	PCCP ENTRANCE	73.4	SY	
STEPHENS BLVD	-	-	BOTH	SIGNS, POSTS AND BASE CONCRETE	12	EA	
EX DAVIS BLVD	-	-	BOTH	SIGNS, POSTS AND BASE CONCRETE	3	EA	
EX DAVIS BLVD	-	-	BOTH	INLETS	2	EA	
EX DAVIS BLVD	-	-	BOTH	12" PIPES	25	LF	
				TOTALS	1	LS	

CONTRACTOR FURNISHED SURVEYING AND STAKING

TOTAL = 1 LUMP SUM

MOBILIZATION

TOTAL = 1 LUMP SUM

ADDITIONAL MOBILIZATION FOR SEEDING

TOTAL = 2 EA

CLEARING AND GRUBBING

ROUTE	STA.	STA.	LOCATION	ACRE	REMARKS
DAVIS BLVD	96+50.00	97+25.00	CL	0.20	
DAVIS BLVD	97+65.00	102+30.00	CL	0.53	
DAVIS BLVD	316+01.94	316+36.94	RT	2.24	
			TOTALS	3.0	
			USE	3.0	

CURB & GUTTER

SHEET	ROUTE	STA.	STA.	LOCATION	C&G TYPE A 3' WIDE	C&G CITY OF JOPLIN 2.5' WIDE	4" TYPE 5 AGGREGATE BASE 4" THICK	REMARKS
					LF	LF	SY	
4	DAVIS BLVD	105+44.45	105+83.40	LT		292.4	81.2	
4	DAVIS BLVD	107+54.44	108+32.39	LT	116.7		32.4	
4	DAVIS BLVD	107+32.40	108+44.94	RT	157.6		43.8	
6	RTE FF	35+22.91	39+31.60	LT	409.2		113.7	
6	RTE FF	33+42.24	33+99.70	RT	57.5		16.0	
7	STEPHENS BLVD	5+06.84	9+74.84	RT		505.4	140.4	
				TOTALS	741.0	797.8	427.5	
				USE	741	798	428	

OPTIONAL PAVEMENT

SHEET	ROUTE	STA.	STA.	OPTIONAL PAVEMENT	AGGR. BASE TYPE 5 6" THICKNESS	REMARKS
				SY	SY	
4	STEPHEN BLVD	5+15.74	9+74.84	1667.1	1667.1	INCLUDES FULL DEPTH SHOULDER
			TOTALS	1667.1	1667.1	
			USE	1667.1	1667	

ENTRANCES

SHEET	ROUTE	STA.	LOCATION	PAVED APPROACH 8" THICK	4" TYPE 5 AGGREGATE BASE	LINEAR GRADING CLASS 1	REMARKS
				SY	SY	STA.	
4	DAVIS BLVD	95+68.00	RT	212.2	212.2	0.3	
4	DAVIS BLVD	104+00.56	RT	244.6	244.6	0.6	
4	DAVIS BLVD	105+61.95	LT	88.8	88.8	0.2	
4	STEPHENS BLVD	7+97.48	LT	141.1	141.1	0.3	
6	RTE FF	34+43.89	RT	206.2	206.2	0.3	
			TOTALS	892.9	892.9	1.7	
			USE	893	893	1.7	

CONCRETE PAVEMENT

SHEET	ROUTE	STA.	STA.	CONCRETE PAVEMENT 9" NON-REINFORCED 15' JOINTS	AGGR. BASE TYPE 5 6" THICKNESS	REMARKS
				SY	SY	
4	DAVIS BLVD	94+65.00	107+44.40	5454.5	5454.5	INCLUDES FULL DEPTH SHOULDER
6	ROUTE FF	35+11.93	39+13.52	428.9	428.9	RIGHT TURN LANE
			TOTALS	5883.4	5883.4	
			USE	5883.4	5883	

TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, TURF TYPE TALL FESCUE SODDING, CURBS

SHEET	STATION	STATION	LOCATION	LT RT	TRUNC. DOMES	CURB RAMP				SIDEWALK									4" TYPE 1 AGGR.	ADA LINEAR GRADING	SOD	S-CURB			REMARKS
										S.W. WIDTH	* PAY WIDTH	4" SDWLK.	4" CUT THRU	4" BUS STOP	4" PASS AREA	8" SDWLK.	8" MODIFD. SDWLK.	INTEGRAL CURB				LESS/EQ 6" (1"-6")	OVER 6" (6"-12")	MODIFIED (12"-30")	
					SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	SY	SY	* LF	SY	LF	SY	LF	LF	LF	
4	33+93.00	34+14.76	RTE FF	RT	27.0	7	6	N/A	13.8	6	6	33.6							47.4	33.8	8.9		35.6		
4	34+78.06	35+11.59	RTE FF	RT	19.4	7	6	N/A	11.2	6	6	12.2							23.4	45.6	10.9		94.1		
4	35+11.59	35+29.09	RTE FF	RT	9.6	7	6	N/A	9.8	6	6	6.0							15.8	29.5	8.2		17.5		
4	106+22.56	108+29.29	DAVIS BLVD	RT	9.6	5	5	N/A	10.2	5	5	165.1							175.3	216.8	39.4				
4	9+54.37	9+74.84	STEPHENS	RT							5	11.0							11.0	20.5	3.5				
				TOTAL	65.6	--	--	--	45.0	--	--	227.9						*	272.9	346.2	70.9		147.2		
				USE	66	--	--	--	45.0	--	--	227.9						*	273	347	71		148		

QTY IS INCLUDED IN 8" SW FOR PINNED-ON ISLANDS, IF NEED PVMNT REPAIR UNDERNEATH.
SOD IS ESTIMATED AT 2.25' FOR CURB RAMP AREAS AND AT 1.5' FOR LONG SIDEWALK RUNS.

* PAY WIDTH INCLUDES INTEGRAL CURB CONC. WIDTH/HEIGHT. SEE TYPICAL SHEET 1 FOR ALL PAY ITEM LIMITS.

SUMMARY OF QUANTITES
SHEET 1 OF 5

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
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DRAINAGE STRUCTURES, PIPES, AND END SECTIONS

SHEET	ROUTE	STA.	OFFSET	STA.	OFFSET	15 IN. PIPE GROUP A	15 IN. PIPE GROUP B	B6 ARCH.PIPE GROUP B	15 IN. FES GROUP A	15 IN. FES GROUP B	42"X 29" FES GROUP B	CLASS 3 EXC	ROCK LINING	REMARKS
						(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(CY)	(CY)	
4	STEPHENS BLVD	5+61.34	45.11' LT	5+66.35	13.54' RT		59.0			1		0.0	2.0	P-4
4	STEPHENS BLVD	5+66.75	15.51' RT	5+71.77	41.04' RT		25.9			1		1.0	2.0	P-3
4	STEPHENS BLVD	5+67.58	14.34' RT	7+45.63	20.71' RT		172.7					3.5		P-2
4	STEPHENS BLVD	7+49.62	20.50' RT	9+20.47	18.89' RT		176.1					54.2		P-1
5	RTE FF	33+63.90	54.97' LT	34+00.73	55.80' LT		36.9					5.1	2.0	P-14
5	RTE FF	34+02.47	54.58' LT	34+86.17	55.88' LT	214.6			1			24.0		P-12
5	RTE FF	34+60.23	85.41' LT	34+86.48	58.22' LT		36.9					10.5		P-11
5	RTE FF	34+89.38	55.46' LT	34+98.74	45.54' LT		14.3					2.9		P-10
5	RTE FF	35+03.08	44.04' LT	35+32.61	41.01' LT		27.7					2.4		P-9
5	RTE FF	35+30.75	51.65' LT	35+32.61	42.01' LT		10.3					2.5		P-8
5	RTE FF	35+34.61	41.01' LT	36+27.16	41.00' LT		92.6					15.7		P-7
5	RTE FF	36+31.16	41.00' LT	37+40.19	41.00' LT		109.1					21.9		P-6
4	DAVIS BLVD	96+69.96	29.03' RT	96+70.00	22.92' LT			104.0			4	133.4	90.4	2- 52' PARALLEL CULVERTS
					TOTALS	214.6	761.5	104.0	1.0	2.0	4.0	277.1	96.4	
					USE	215	762	104	1	2	4	277	96	

DRAINAGE INLETS AND MANHOLES

SHEET	ROUTE	STA.	OFFSET	2'X2' TYPE A INLET	4'X2' TYPE A INLET	PRECAST CONCRETE MANHOLE	CURVED VANE GRATE 2' X 2'	CURVED VANE GRATE 4' X 2'	MANHOLE FRAME AND COVER TYPE 4	ADA FRAME AND COVER	CLASS 3 EXC.	REMARKS
			(FT)	(FT)	(FT)	(FT)	(EA)	(EA)	(EA)	(EA)	(CY)	
4	STEPHENS BLVD	9+20.95	18.9' RT	4.0			1				18.3	I-1
4	STEPHENS BLVD	7+47.62	20.6' RT			4.0			1.0		8.9	MH-2
4	STEPHENS BLVD	5+66.55	14.5' RT	6.0			1				0.0	I-4
4	RTE FF	34+01.51	55.2' RT		4.0			1			5.4	I-14
4	RTE FF	34+60.23	85.4' LT		4.0			1			6.7	I-11
5	RTE FF	34+87.93	56.8' LT			5.0				1.0	8.1	MH-12
5	RTE FF	35+01.19	44.7' LT		4.0			1			1.4	I-10
5	RTE FF	35+30.74	52.1' LT	3.0			1				6.9	I-8
5	RTE FF	35+32.61	41.0' LT		4.0			1			2.5	I-9
5	RTE FF	36+29.16	41.0' LT		4.0			1			4.0	I-7
5	RTE FF	37+42.18	41.0' LT		4.0			1			4.0	I-6
			TOTALS	13.0	24.0	9.0	3.0	6.0	1.0	1.0	66.2	
			USE	13	24	9	3	6	1	1	66	

PERMANENT SEEDING AND MULCHING

SHEET	ROUTE	STA.	STA.	LOCATION	COOL SEASON MIX SEEDING	COOL SEASON MIX MULCHING	TYPE 2 TURF REINFORCEMENT MAT	REMARKS
					ACRE	ACRE	SY	
16	DAVIS BLVD	94+65.00	108+42.00	LT	1.744	1.744		
16	DAVIS BLVD	94+65.00	95+40.00	RT	0.015	0.015		
16	DAVIS BLVD	94+65.00	103+45.00	LT			1082.0	
16	DAVIS/STEPHENS BLVD	94+65.00	9+74.00	LT	1.744	1.744		
16	DAVIS BLVD	95+89.00	108+42.00	RT	0.530	0.530		
16	DAVIS BLVD	96+06.00	103+83.00	RT			914.0	
16	STEPHENS BLVD	5+12.50	8+91.35	RT			1576.0	
16	STEPHENS/DAVIS BLVD	9+74.00	106+63.00	LT	0.180	0.180		
16	RTE FF	34+60.00	39+25.00	LT	0.216	0.216		RT TURN LANE
				TOTALS	4.43	4.43	3572.0	
				USE	4.4	4.4	3572	

TEMPORARY SEEDING

SHEET	ROUTE	STA.	STA.	LOCATION	SEEDING	MULCHING	REMARKS
					ACRES	ACRES	
16	DAVIS BLVD	94+65.00	108+42.00	LT	0.4	0.4	
16	DAVIS/STEPHENS BLVD	94+65.00	9+74.00	RT	0.4	0.4	
16	DAVIS BLVD	95+89.00	108+42.00	LT	0.1	0.1	
16	RTE FF	34+60.00	39+25.00	LT	0.1	0.1	
				TOTALS	1.0	1.0	
				USE	1.0	1.0	

ROCK BLANKET

SHEET	ROUTE	LOCATION	TYPE 2 ROCK BLANKET (24" THICK) FURNISHING ROCK BLANKET	PLACING ROCK BLANKET	EROSION CONTROL GEOTEXTILE	REMARKS
			CY	CY	SY	
4	DAVIS BLVD	CULVERT OUTLET	229.0	229.0	344.0	
		TOTALS	229.0	229.0	344.0	
		USE	229.0	229.0	344.0	

SUMMARY OF QUANTITES
SHEET 2 OF 5

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES

SHEET	ROUTE	STA.	STA.	LOCATION	ROCK DITCH CHECK	CURB INLET CHECK	SILT FENCE	SEDIMENT REMOVAL	REMARKS
					LF	EA	LF	CY	
15	DAVIS BLVD	94+65.00	103+00.00	LT	170.0			17.0	17 ROCK DITCH CHECKS @ 50' SPACING
15	EX.DAVIS BLVD	96+17.00	99+70.00	LT	70.0			7.0	7 ROCK DITCH CHECKS @ 50' SPACING
15	EX.DAVIS BLVD	96+17.00	99+70.00	RT	30.0			3.0	3 ROCK DITCH CHECKS @ 50' SPACING
15	EX.DAVIS BLVD	96+17.00	99+70.00	RT	30.0			3.0	3 ROCK DITCH CHECKS @ 50' SPACING
15	DAVIS BLVD	96+82.00	105+66.00	RT			942.0	9.0	
15	DAVIS BLVD	103+20.29	103+80.41	RT			78.0	1.0	
15	DAVIS BLVD	104+20.25	107+72.16	RT			288.0	3.0	
15	DAVIS BLVD	107+65.58	-	LT		1.0		1.0	
15	DAVIS BLVD	107+85.82	-	LT		1.0		1.0	
15	DAVIS BLVD	108+16.00	-	RT	10.0			1.0	1 ROCK DITCH CHECK
15	DAVIS BLVD	108+16.13	-	RT		1.0		1.0	
15	STEPHENS BLVD	5+26.02	7+24.05	LT			255.0	3.0	
15	STEPHENS BLVD	5+38.81	9+74.84	LT			470.0	5.0	
15	STEPHENS BLVD	5+66.50	-	RT	10.0			1.0	1 ROCK DITCH CHECK
15	STEPHENS BLVD	5+66.50	-	LT	10.0			1.0	1 ROCK DITCH CHECK
15	STEPHENS BLVD	5+66.55	-	LT		1.0		1.0	
15	STEPHENS BLVD	9+21.51	-	LT		1.0		1.0	
15	RTE FF	32+00.73	-	LT		1.0		1.0	
15	RTE FF	32+01.27	-	RT		1.0		1.0	
15	RTE FF	33+50.00	39+20.00	LT				4.0	
15	RTE FF	33+50.00	34+00.00	RT			72.0	1.0	
15	RTE FF	34+81.00	35+36.00	RT			11.0	0.0	
15	RTE FF	35+01.19	-	LT		1.0		1.0	
15	RTE FF	35+14.77	-	RT		1.0		1.0	
15	RTE FF	35+30.77	-	LT		1.0		1.0	
15	RTE FF	35+32.63	-	LT		1.0		1.0	
15	RTE FF	35+46.90	-	LT		1.0		1.0	
15	RTE FF	36+29.45	-	LT		1.0		1.0	
15	RTE FF	37+41.11	-	RT		1.0		1.0	
15	RTE FF	37+42.21	-	LT		1.0		1.0	
				TOTALS	330.0	15.0	2116.0	74.0	
				USE	330	15	2116	74	

NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK, 1 CY PER INLET CHECK, AND 1 CY PER 100 LINEAR FEET OF SILT FENCE.

EARTHWORK

ROUTE	LOCATION	STA.	STA.	CLASS A EXCAVATION	COMPACTING EMBANKMENT	EMBANKMENT IN PLACE	SUBGRADE COMPACTION	REMARKS
				CY	CY	CY	100 LF	
DAVIS BLVD	CL	94+65.00	108+44.84	1619.0	1376.2	2550.8		OBTAIN 314.5 CY FROM BOX CULVERT EXCAVATION.
DAVIS BLVD	CL	94+65.00	96+05.05				1.4	
DAVIS BLVD	CL	105+70.09	108+44.84				2.7	
STEPHENS BLVD	CL	5+12.10	9+74.84	289.8	246.3	4993.0		
STEPHENS BLVD	CL	8+47.54	9+74.84				1.3	
ROUTE FF	RT	35+13.00	39+31.00	1006.8	855.8	-848.0		USE 848.0 CY AT DAVIS/STEPHENS BLVD
DITCH UPSTREAM OF BOX	LT	5+49.09	7+39.29	424.6	360.9	-122.7		USE 122.7 CY AT DAVIS/STEPHENS BLVD
8' FBD E/O OLD DAVIS	RT	95+96.60		1138.6	967.8	-967.8		USE 967.8 CY AT DAVIS/STEPHENS BLVD
			TOTAL	4478.8	3807.0	5605.3	5.4	
			USE	4479	3807	5605	5.4	

CONCRETE BARRIER

SHEET	ROUTE	STA.	STA.	LOCATION	TYPE D CONCRETE BARRIER MOMENT SLAB	REMARKS
					LF	
4	DAVIS BLVD	104+37.60	107+92.93	RT	355.3	SEE JSP FOR DETAILS
				TOTALS	355.3	
				USE	355	

MSE RETAINING WALL

SHEET	ROUTE	STA.	STA.	LOCATION	LENGTH	HEIGHT	MSE WALL	TYPE A GUTTER	REMARKS
							SF	LF	
6	FF	35+28.50	39+00.00	LT	371.5	4.0	2229.0	370.0	
						TOTALS	2229.0	370.0	
						USE	2229.0	370.0	

SUMMARY OF QUANTITES
SHEET 3 OF 5

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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PAVEMENT MARKING

ROUTE	LOCATION	STA.	STA.	WATERBORNE MARKING PAINT WITH TYPE P BEADS				PREFORMED THERMOPLASTIC PAVEMENT MARKING						REMARKS
				4" SOLID DOUBLE YELLOW	4" SOLID YELLOW	4" INT. WHITE	4" SOLID WHITE	24" YELLOW HASH BAR	24" WHITE HASH BAR	24" WHITE STOP BAR	30" WHITE MIDBLOCK	LT/RT ARROW	COMB. STR/LT/RT ARROW	
				(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	
DAVIS BLVD	CL	94+65.00	107+80.66	2631.3										
DAVIS BLVD	CL	106+63.08	107+78.72				115.6							
DAVIS BLVD	CL	107+80.66	-							24.0				STOP BAR
DAVIS BLVD	CL	107+07.78	-									1.0	1.0	
STEPHENS BLVD	CL	5+53.39	9+74.84	842.9										
STEPHENS BLVD	CL	5+54.47	-							12.0				STOP BAR
RTE FF	CL	33+41.97	33+79.02	74.1										
RTE FF	CL	35+57.08	37+81.17	448.2										DOUBLE YELLOW FROM STOP BAR TO BEGIN MEDIAN BUBBLE
RTE FF	CL	37+81.17	40+07.14	903.9										TWO SETS OF DOUBLE YELLOW AT MEDIAN BUBBLE
RTE FF	RT	33+41.97	33+78.96			9.2								
RTE FF	LT	33+41.97	33+78.96			9.2								
RTE FF	RT	35+35.07	40+07.14			118.0								
RTE FF	LT	35+35.12	40+07.14			118.0								
RTE FF	CL	33+41.97	33+78.96				37.0							
RTE FF	CL	35+33.09	37+57.07				224.0							
RTE FF	CL	35+35.09	37+63.52				228.4							
RTE FF	CL	37+38.18	40+07.14					52.7						
RTE FF	CL	33+78.04	-							36.0				STOP BAR
RTE FF	CL	35+26.09	-								13.0			CROSSWALK
RTE FF	CL	35+35.09	-							34.0				STOP BAR
RTE FF	CL	35+59.09	-							11.0				
RTE FF	LT	36+98.90	38+18.88											
RTE FF	CL	33+41.97	38+18.88									5.0		
SOUTH ENTRANCE	CL	-	-		31.0									
SOUTH ENTRANCE	CL	-	-				31.0							
SOUTH ENTRANCE	CL	-	-							14.0				STOP BAR
SOUTH ENTRANCE	CL	-	-								8.0			CROSSWALK
SOUTH ENTRANCE	CL	-	-					21.7						
SOUTH ENTRANCE	CL	-	-						49.2					
SOUTH ENTRANCE	CL	-	-		19.2									
SOUTH ENTRANCE	CL	-	-				26.3							
SOUTH ENTRANCE	CL	-	-				26.3							
			TOTALS	4900.4	50.2	254.4	688.6	74.4	49.2	131.0	21.0	6.0	1.0	
			USE	4951		943		74	49	131	21	6	1	

NOTE:
SEE SHEET 24 FOR SUMMARY OF LIGHTING QUANTITIES
SEE SHEET 33 FOR SUMMARY OF COMMUNICATIONS QUANTITIES

SUMMARY OF QUANTITES
SHEET 4 OF 5

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/24/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
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DESCRIPTION	DATE

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SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	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)
W012-2x	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	7	112.00			35	ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	3	48.00			25	DETOUR AHEAD
WO20-3	48X48	16.00	4	64.00			20A,B	ROAD CLOSED AHEAD
WO20-4	48X48	16.00	1	16.00			7	ONE LANE ROAD AHEAD
WO20-5	48X48	16.00	2	32.00			33	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00			32	RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	1	16.00			8	FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	4	64.00			38	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	1	2.19				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	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	3	36.00			28	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	1	13.25			10	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	3	36.00			36/37	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	1	12.00			7	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	1	12.00			34	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	5	50.00			29	ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	2	25.00			55C	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

616-10.05 CONSTRUCTION SIGNS	TOTAL	571
616-10.10 RELOCATED SIGNS	TOTAL	0

EFFECTIVE: 07-01-2024

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009	1	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)
6123001		TRUCK MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	40	CHANNELIZER (TRIM LINE)
6161030	15	TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6161099	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6173600D	654	TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 5 OF 5

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2025

ROUTE	STATE
F-F	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: JASPER
JOB NO.: J7S3059B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTES

1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 94+65.00 TO STA. 108+71.92 ALONG RELOCATED DAVIS BLVD., A DISTANCE OF 0.266 MILES, AND FROM STA. 33+42.00 TO STA. 39+31.60 ALONG ROUTE FF, A DISTANCE OF 0.112 MILES.
2. 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.
3. ALL UTILITIES SHALL NOT BE DISTURBED DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WEST ZONE.
5. SEE SHEETS 7-9 FOR R/W INFORMATION.

BUILD BRIDGE #A9696
3(11'x 7') CONCRETE BOX CULVERT
STA. 102+90.63 TO STA. 103+34.17
SKEW 36° LA
SQUARE END SECTION
CL. 4 EXC.=368 CY
ROCK LINING=233 CY

CURVE DATA LABELS ARE LOCATED ON THE CIVIL GEOMETRY PLAN SHEET SHEET 1 OF 1

ENTRANCES

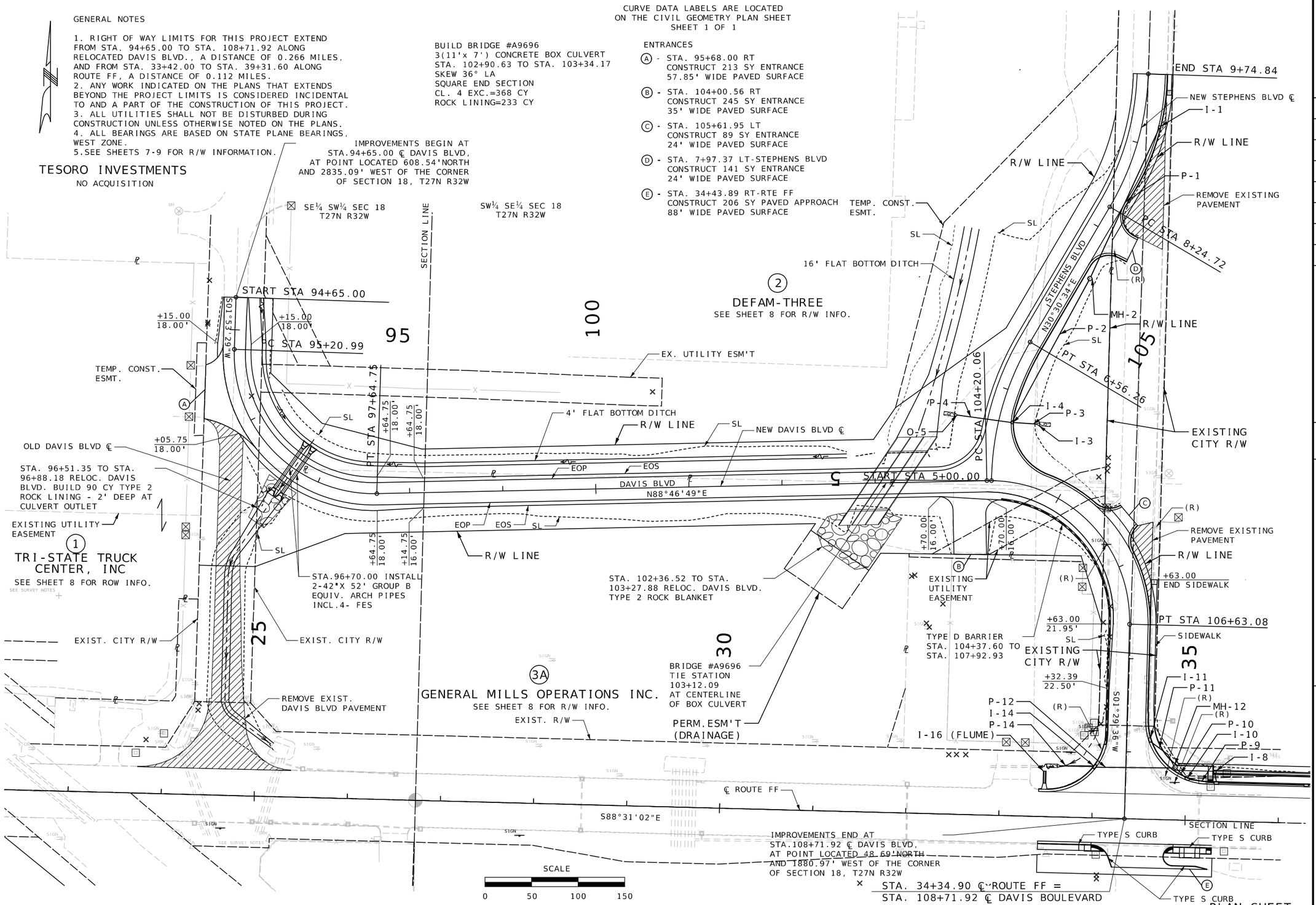
(A) - STA. 95+68.00 RT
CONSTRUCT 213 SY ENTRANCE
57.85' WIDE PAVED SURFACE

(B) - STA. 104+00.56 RT
CONSTRUCT 245 SY ENTRANCE
35' WIDE PAVED SURFACE

(C) - STA. 105+61.95 LT
CONSTRUCT 89 SY ENTRANCE
24' WIDE PAVED SURFACE

(D) - STA. 7+97.37 LT-STEPHENS BLVD
CONSTRUCT 141 SY ENTRANCE
24' WIDE PAVED SURFACE

(E) - STA. 34+43.89 RT-RTE FF
CONSTRUCT 206 SY PAVED APPROACH
88' WIDE PAVED SURFACE



PLAN SHEET
SHEET 1 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/24/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	4
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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JEFFERSON CITY, MO 65102
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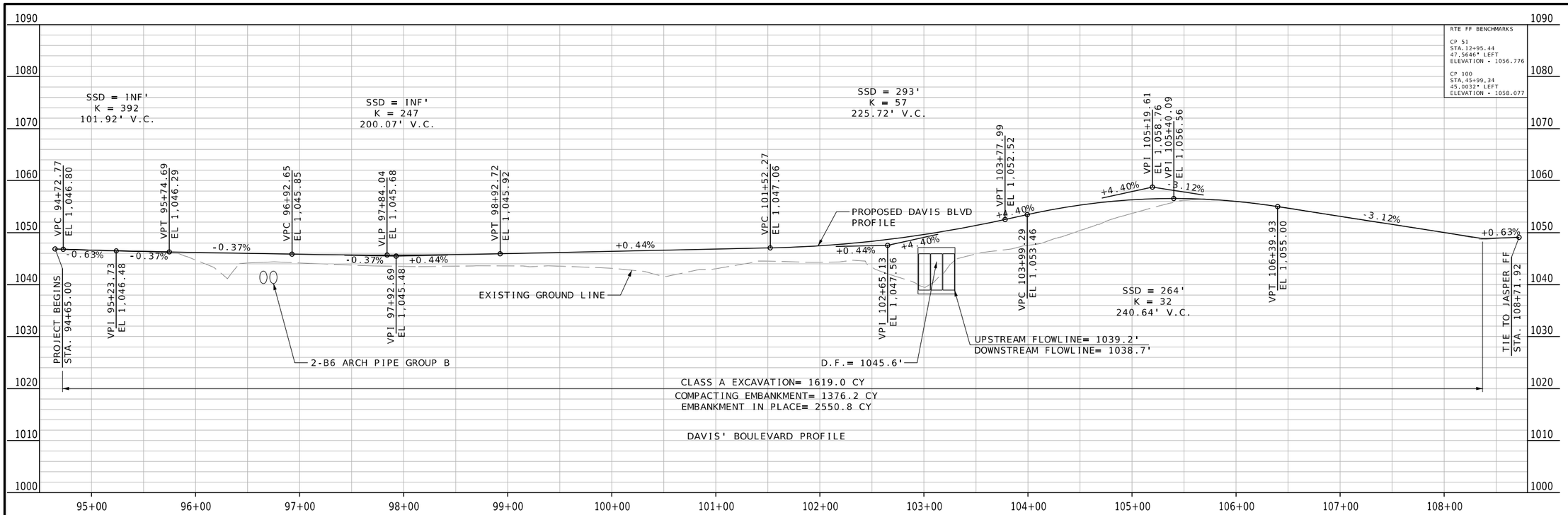

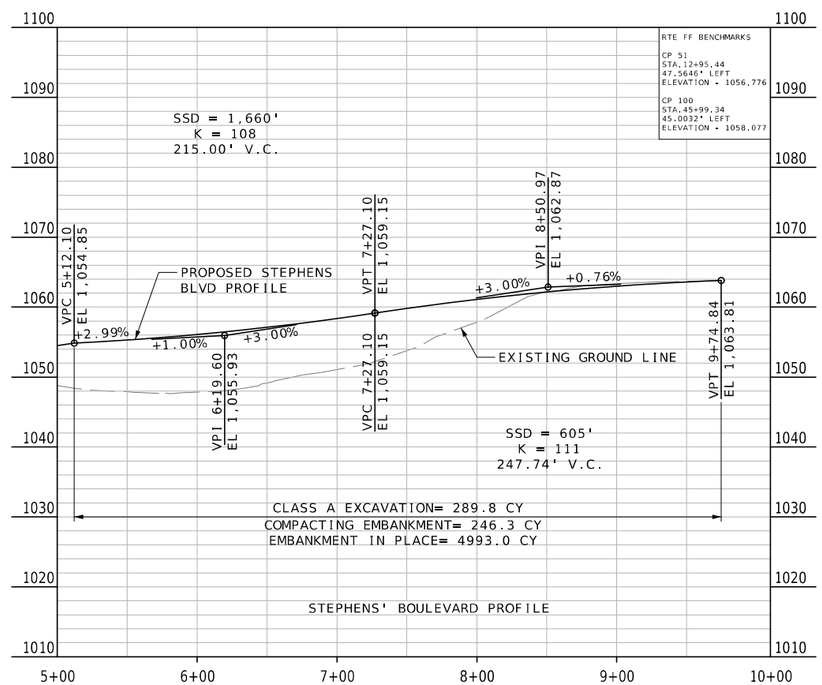

PLAN SHEET
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE FF	STATE MO
DISTRICT SW	SHEET NO. 5
COUNTY JASPER	
JOB NO. J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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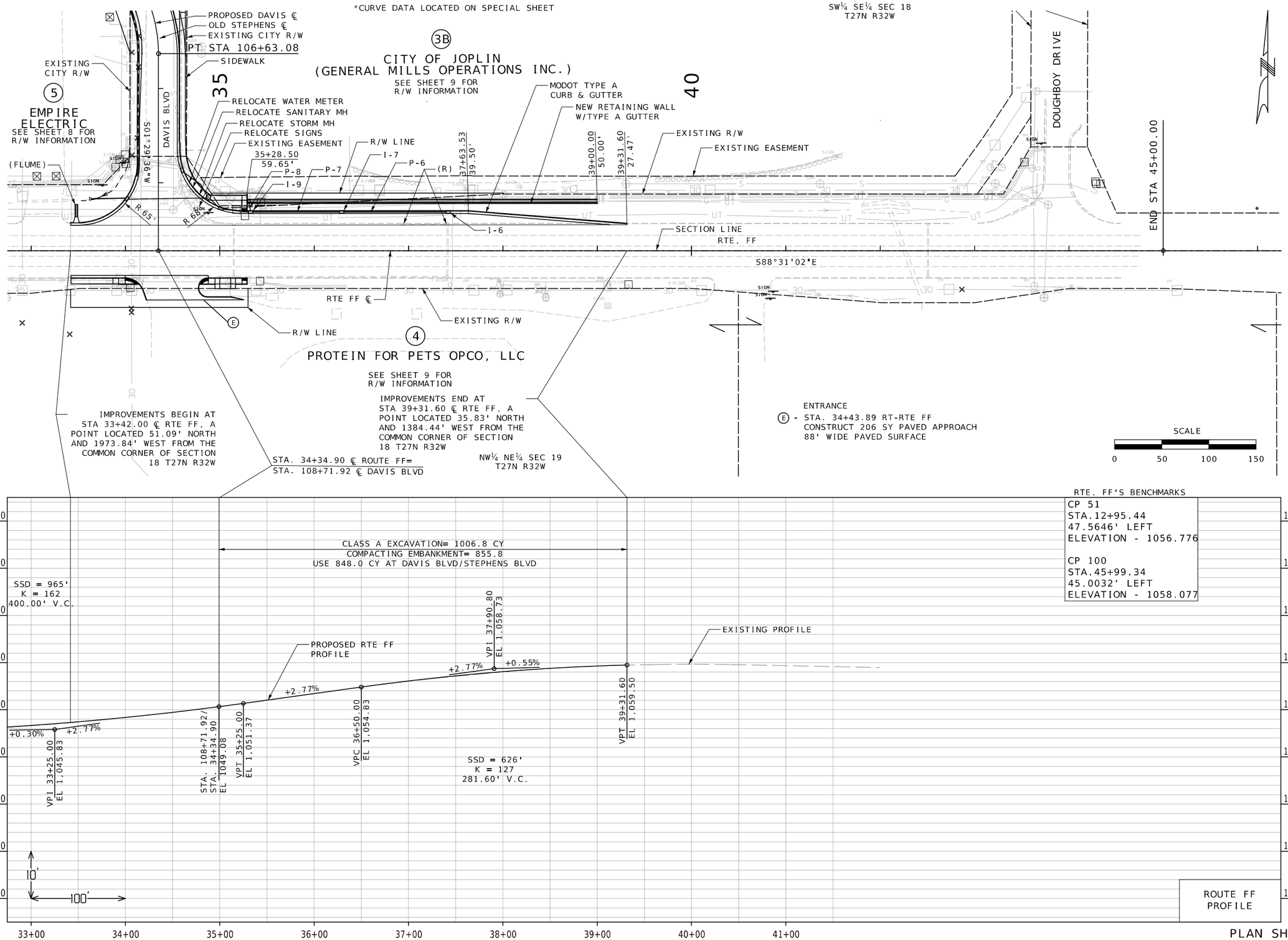
REV.



PLAN SHEET
SHEET 3 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/25/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	6
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

CERTIFIED CORNER OF SECTIONS 17,18,19 & 20, T27N R32W LOCATED 1893.11' S 82°11'02"E FROM STATION 106+63.08 ℄ DAVIS BLVD. 5/8" IRON BAR FOUND BY BRIAN ATNIP DOCUMENT NUMBER 600-86750

TESORO INVESTMENTS
NO ACQUISITION

IMPROVEMENTS BEGIN AT STA.94+65.00 ℄ DAVIS BLVD, AT POINT LOCATED 608.54'NORTH AND 2835.09' WEST OF THE CORNER OF SECTION 18, T27N R32W

START STA 94+65.00
+14.92 30.00'
+14.98 40.00'
+65.00 40.00'
+65.00 30.00'
PC STA 95+20.99
S01°53'29"W
95
TEMPORARY ESM'T. (CONST.)
+53.23 37.41'
+65.15 57.10'
PT STA 97+64.75
+89.82 61.93'
+92.60 52.66'
+14.23 47.00'
NEW R/W
EXIST. UTILITY ESM'T
100
(2) DEFAM-THREE, L. L. C.
73,686 SF(1.69 AC) NEW R/W
32,168 SF (0.74 AC)
TEMP. ESM'T. (CONST)
24.76 AC REMAINING
TEMP. CONST. ESMT.
+19.89 145.00'
+30.44 33.79'
+26.53 30.00'
END STA 9+74.84
+64.24 21.83'
NEW R/W
+53.94 21.83'
PC STA 8+24.72
OLD STEPHENS BLVD ℄
+56.26 30.00'
N30°30'34"E
+53.94 21.83'
NEW R/W
+56.59 111.32'
+99.39 47.00'
PT STA 6+56.26
105
STA 104+20.06
PC STA
(3B) CITY OF JOPLIN (GENERAL MILLS OPERATIONS INC.)
SEE SHEET 9 FOR R/W INFORMATION
+39.90 30.00'
START STA 5+00.00
N88°46'49"E
5
(1) TRI-STATE TRUCK CENTER, INC.
995 SF TEMP. ESM'T.
5.20 AC REMAINING
+57.85 144.20'
+37.71 45.16'
+85.07 111.44'
EXIST. CITY R/W (JOPLIN)
25
(3A) GENERAL MILLS OPERATIONS INC.
60,159 SF (1.38 AC) NEW R/W
3,788 SF PERM. ESM'T
4.08 AC REMAINING
30
+35.01 42.00'
+29.89 49.08'
+00.59 89.59'
+61.97 134.00'
+91.30 93.44'
+04.43
75.30'
+36.31
76.35'
+34.90 80.00'
PERM. ESM'T (DRAINAGE)
TEMPORARY ESM'T. (CONST.)
(5) EMPIRE ELECTRIC
864 SF NEW R/W
930 SF TEMP.ESM'T. (CONST)
0.95 AC REMAINING
+66.44 30.00'
+74.43 31.91'
+62.37 30.00'
PT STA 106+63.08
+65.65 30.03'-28.51'
35
+04.71 100.00'
+76.51 70.00'
S01°29'36"W
+79.94 77.23'
+90.80 61.00'
+01.51 45.00'
NEW R/W
+33.51 100.00'
+93.51 100.00'
+21.92 69.79'
+03.35 50.00'
EXISTING R/W
RTE. FF
S88°31'02"E
END STA 108+71.92
IMPROVEMENTS END AT STA.108+71.92 ℄ DAVIS BLVD, AT POINT LOCATED 48.69'NORTH AND 1880.97' WEST OF THE CORNER OF SECTION 18, T27N R32W
EXISTING R/W
+42.00 40.92'
+42.00 60.00'
NEW R/W
(4) PROTEIN FOR PETS OPCO, LLC
SEE SHEET 9
+30.00 60.00'
+30.00 .00'

SCALE
0 50 100 150

RIGHT OF WAY PLAN
SHEET 1 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/24/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
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WWW.BARTLETTWEST.COM

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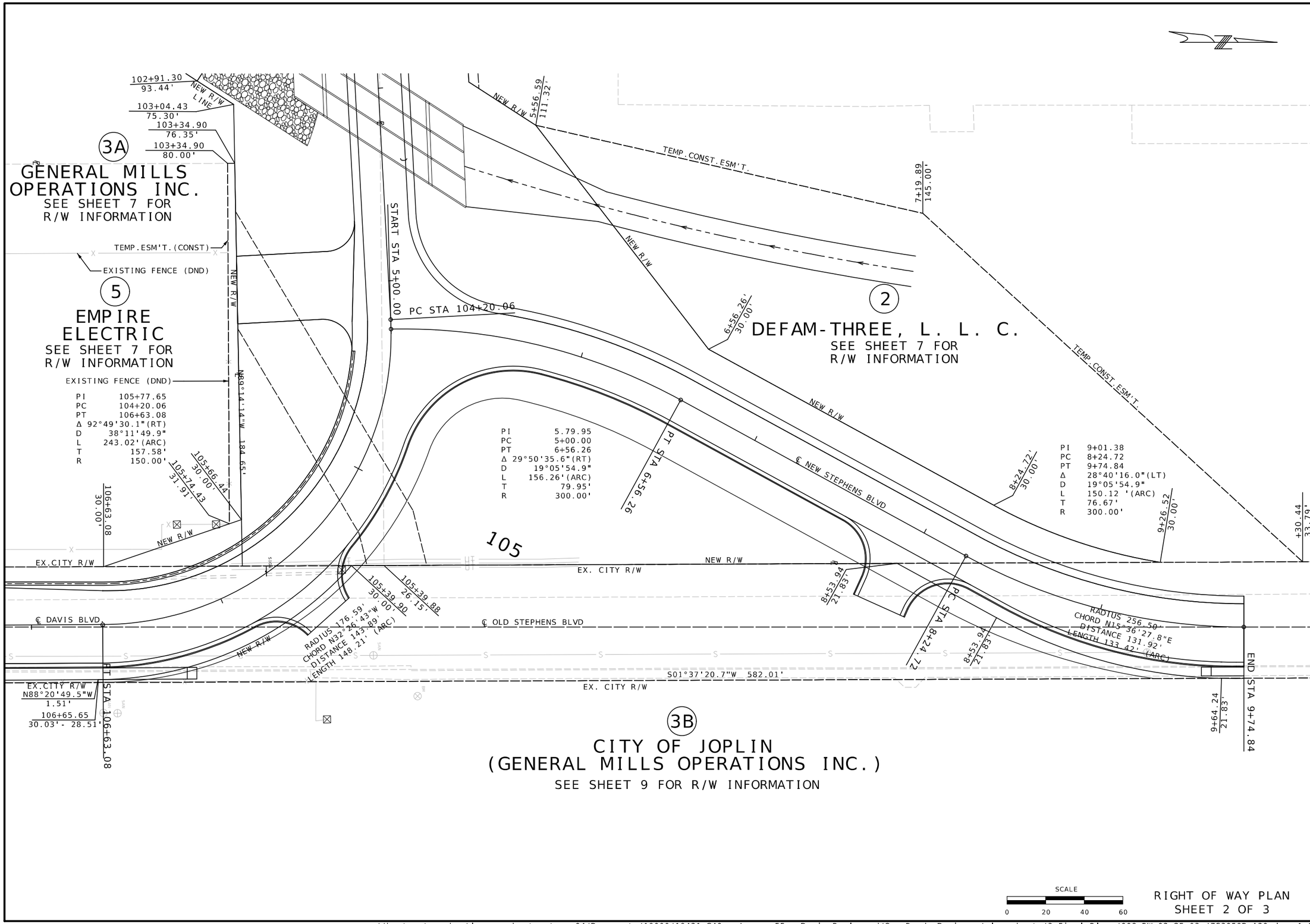
REV.



RIGHT OF WAY PLAN
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	8
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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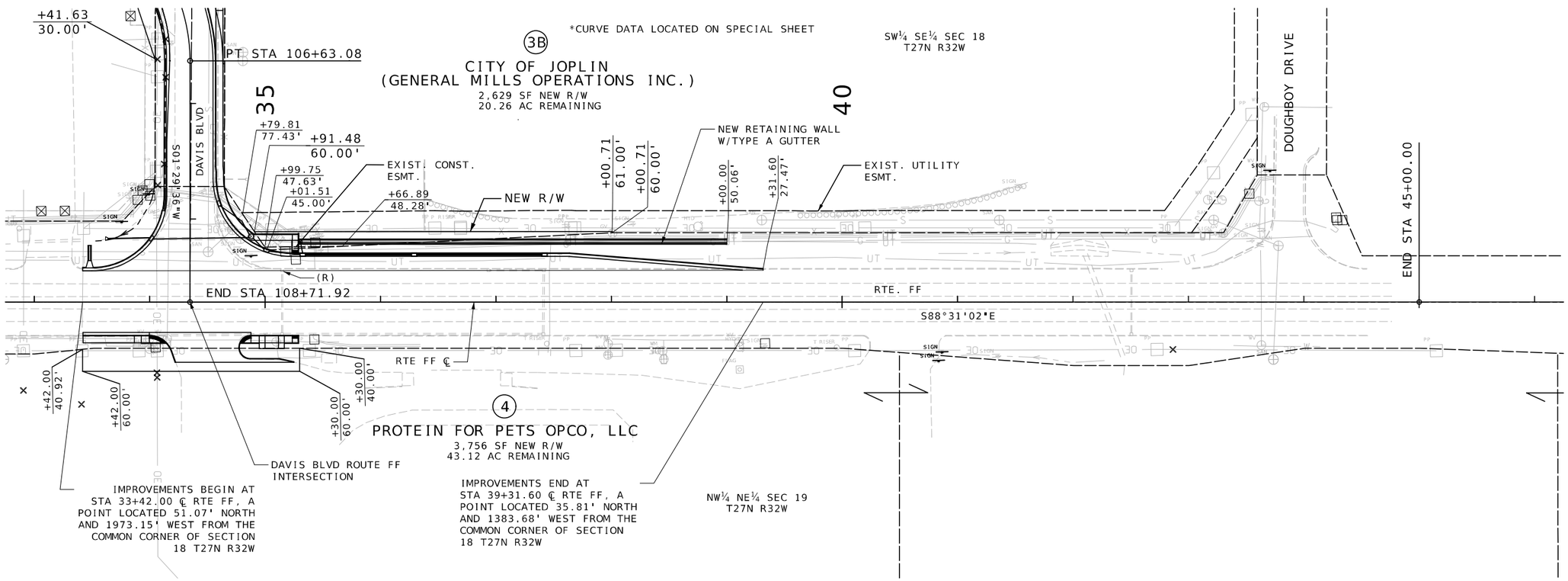
pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G40 - Jasper FF - Davis Boulevard/OpenRoads Designer/plan_sheets/3_Final Plans/008_RW_02_OF_03_J7S3059B_I20.dgn 1:08:35 PM 2/28/2025



SCALE

0 50 100 150

RIGHT OF WAY PLAN
SHEET 3 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

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DATE PREPARED	
3/24/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	9
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
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DATE	DESCRIPTION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

Bartlett & West

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WWW.BARTLETTWEST.COM

REV.

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES. MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	CON US_NGS2018
ELEVATIONS DETERMINED BY	MODOT GNSS
PROJECT PROJECTION FACTOR	1.0001028

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	MODIFIED STATE PLANE
CONTROL STATION	SEE COORDINATE POINT LISTING TABLE
DESIGNATION	MODOT CARTHAGE CORS ARP
CORS_ID	MOCA
PID	DL6014
LATITUDE	N37_10_39.16612
LONGITUDE	W094_21_27.2430
NORTHING (M)	112181.729
EASTING (M)	862647.874
ZONE	MISSOURI WEST
PROJECT AVERAGE GRID FACTOR	0.9998972

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

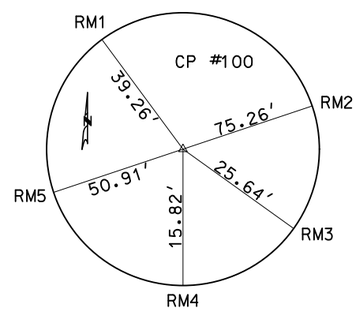
EXAMPLE: CONTROL POINT #100
N 323433.8930 X 0.9998972 = N 323400.644
E 2799908.6370 X 0.9998972 = E 2799620.806

LINEAR UNIT CONVERSION

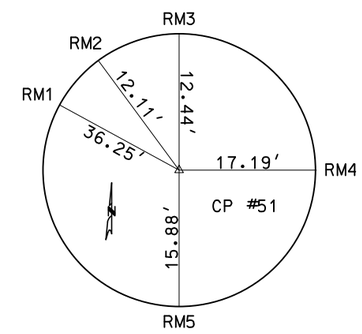
1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
6	12+95.44	LT	47.5646'	323522.082	2796605.907	1056.776	5/8" I.B. W/ ALUMINUM CAP	51
6	45+99.34	LT	45.0032'	323433.893	2799908.637	1058.077	60D NAIL PREVIOUSLY SET BY MODOT	100
ALIGNMENTS								
4	94+65.00	DAVIS	0.00				BEGIN DAVIS REALIGNMENT	
4	95+20.99	DAVIS	0.00				PC DAVIS REALIGNMENT	
4	97+64.75	DAVIS	0.00				PT DAVIS REALIGNEMNT	
4	104+20.06	DAVIS	0.00				PC DAVIS REALIGNMENT	
4	105+63.08	DAVIS	0.00				PT DAVIS REALIGNMENT	
4	108+36.93	DAVIS	0.00				END DAVIS REALIGNMENT	
4	5+00.00	STEPHENS	0.00				BEGIN STEPHENS REALIGNMENT	
4	6+56.26	STEPHENS	0.00				PT STEPHENS REALIGNMENT	
4	8+24.72	STEPHENS	0.00				PC STEPHENS REALIGNMENT	
4	9+74.84	STEPHENS	0.00				PT STEPHENS REALIGNMENT	
6	45+00.00	RTE FF	0.00				END RTE FF ALIGNMENT	



CONTROL POINT #100
N: 323433.893
E: 2799908.637
EL: 1058.077
STA. 45+99.34 OFF. 45.0032' ROUTE FF
60D NAIL PREVIOUSLY SET BY MODOT
RM1: SHINER IN 12 IN. MAPLE TREE
RM2: MAG NAIL IN EAST DRIVE EDGE
RM3: WEST PC OF WEST CURB AT DRIVE
RM4: NW CORNER OF STORM GRATE @ CURB
RM5: CENTER OF DROP INLET MANHOLE



CONTROL POINT #51
N: 323522.082
E: 2796605.907
EL: 1056.776
STA. 12+95.44 OFF. 47.5646' ROUTE FF
5/8" I.B. W/ ALUMINUM CAP
RM1: CHISELED SQUARE IN LIGHT POLE BASE
RM2: CENTER OF MANHOLE LID
RM3: FACE OF STEEL LIGHT POLE
RM4: PERPENDICULAR TO CURB EAST
RM5: PERPENDICULAR TO CURB SOUTH

CONTROL/REFERENCE
POINT SHEET
1 OF 1

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 10
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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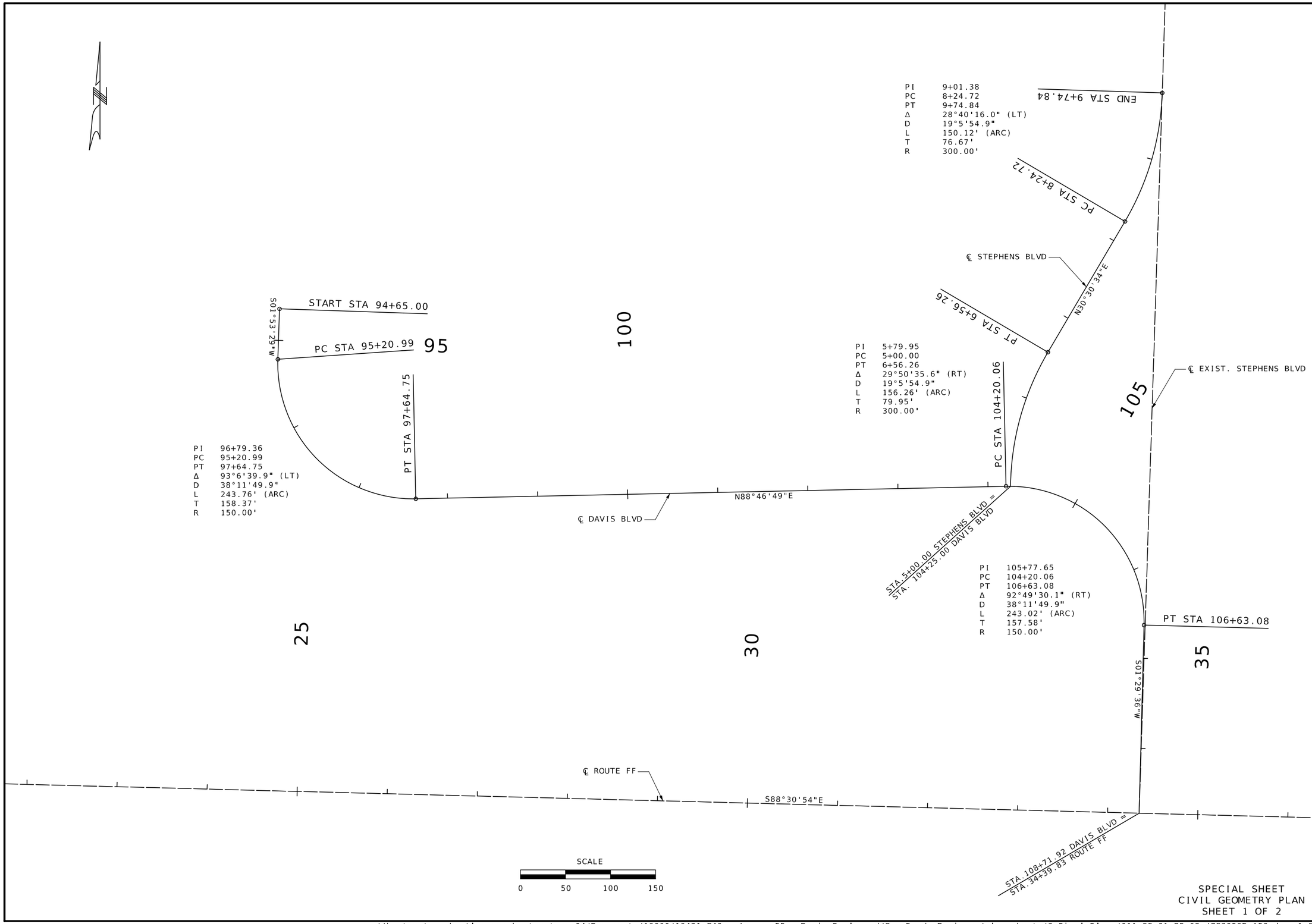

SPECIAL SHEET
CIVIL GEOMETRY PLAN
SHEET 1 OF 2

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
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DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	11
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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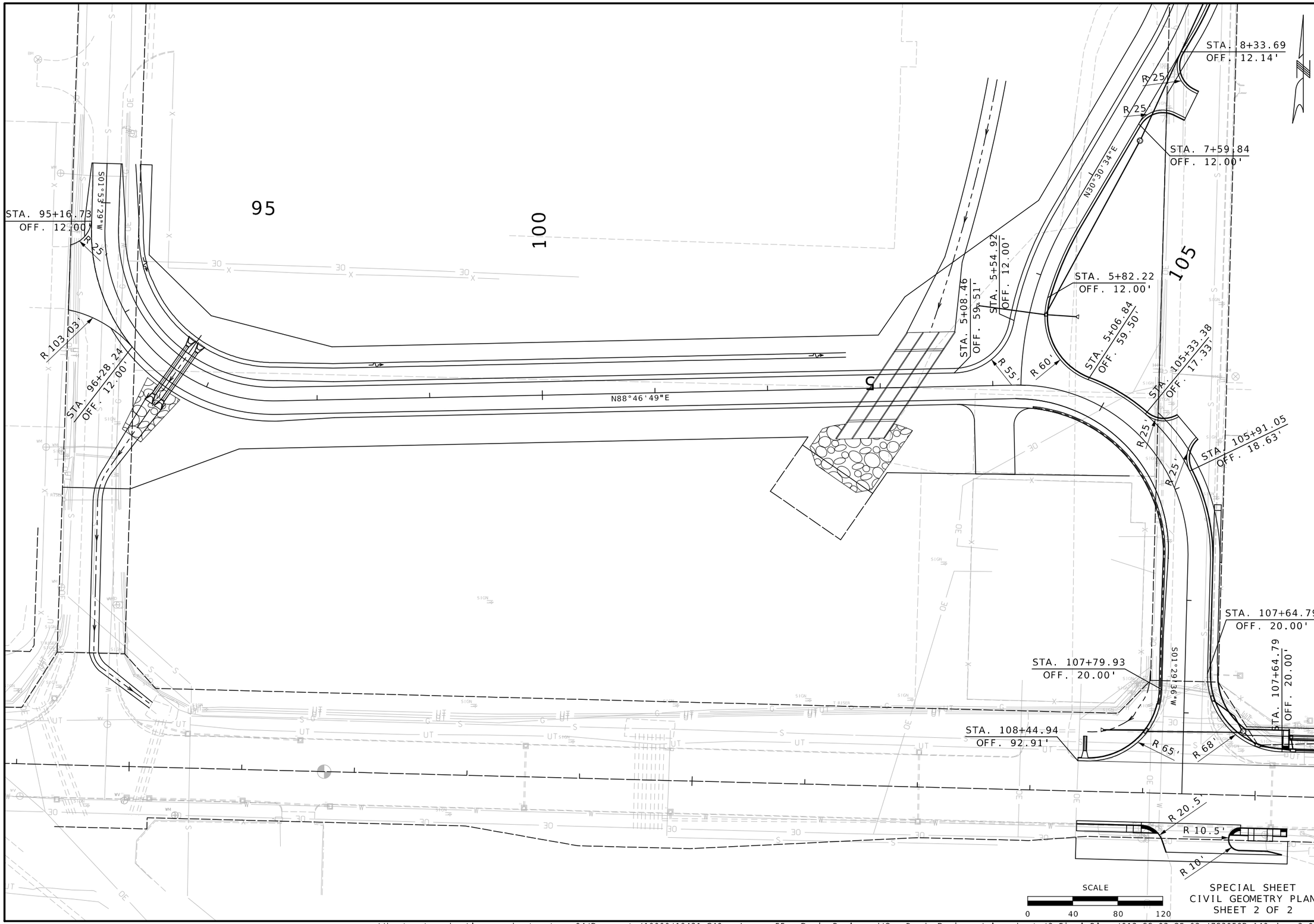

SPECIAL SHEET
CIVIL GEOMETRY PLAN
SHEET 2 OF 2

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
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DATE PREPARED	
3/24/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	12
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

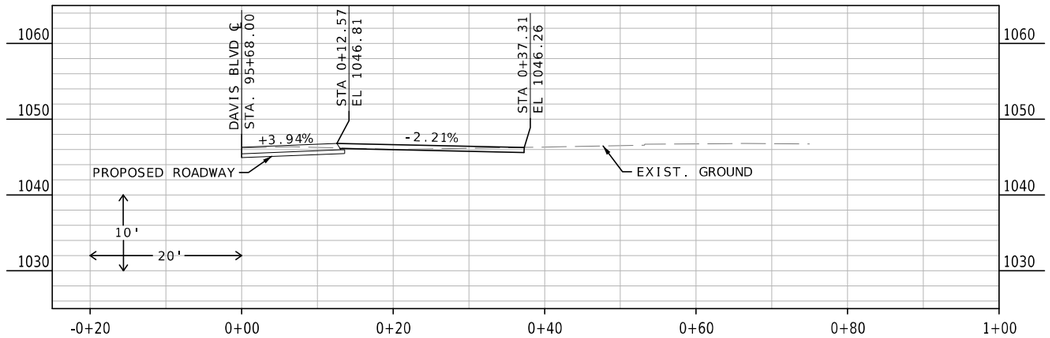
DATE	DESCRIPTION

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

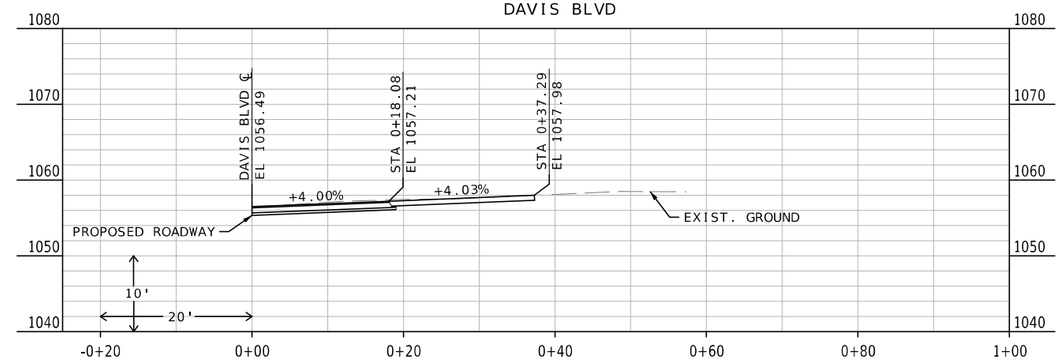
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

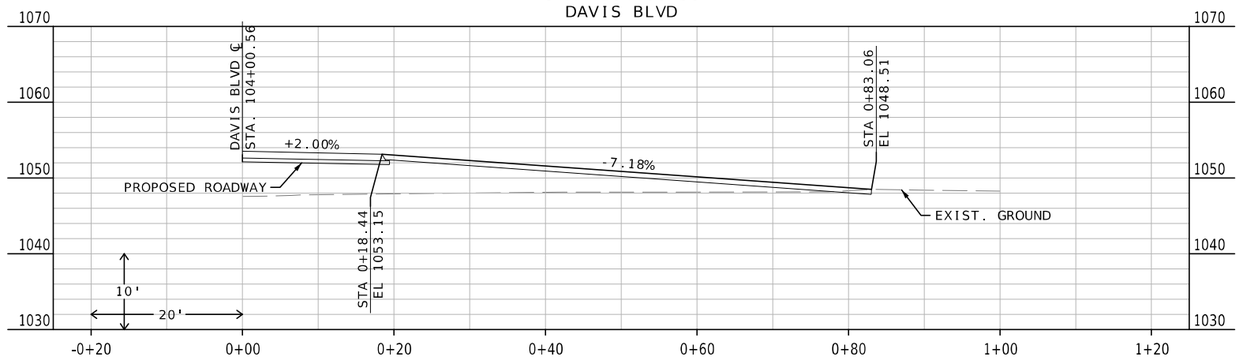
STA. 95+68.00
DAVIS BLVD



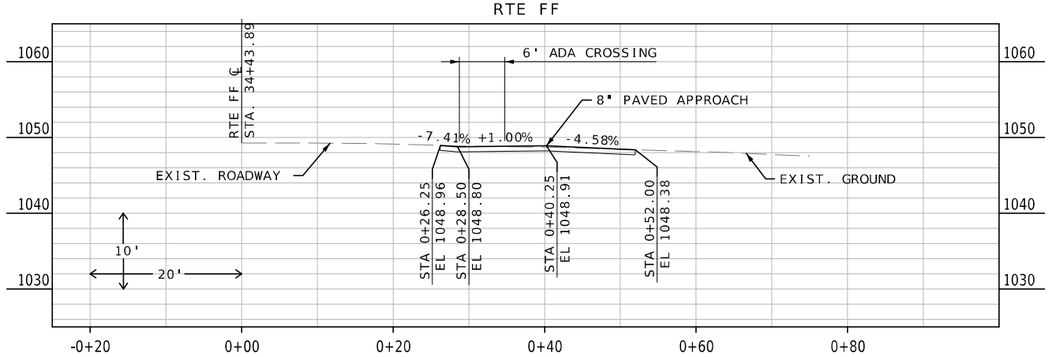
STA. 105+61.95
DAVIS BLVD



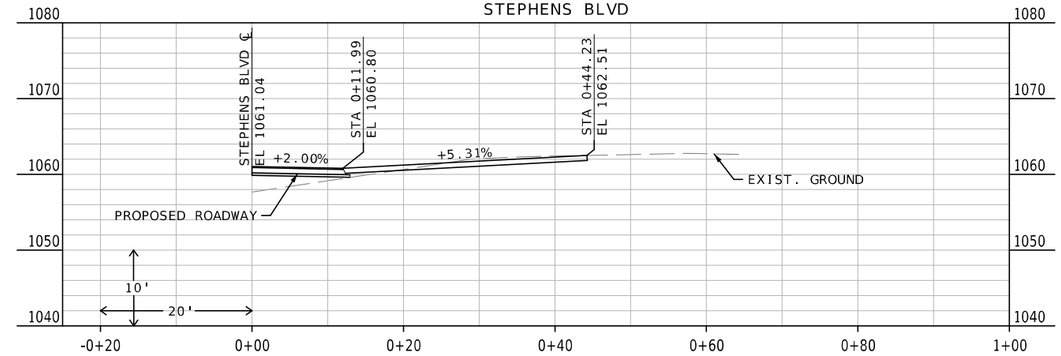
STA. 104+00.56
DAVIS BLVD



STA. 34+43.89
RTE FF



STA. 7+97.48
STEPHENS BLVD



SPECIAL SHEET
DRIVE PROFILES
SHEET 1 OF 1

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
JASPER

JOB NO.
J7S3059B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

NOTES:

TYPE D SHALL BE USED ONLY AT LOCATIONS SHOWN ON PLANS.

FOR CONCRETE TRAFFIC BARRIER DELINEATION DETAILS SEE STD PLAN 903.03.

ALL REINFORCEMENT SHALL BE GRADE 60 EPOXY COATED.

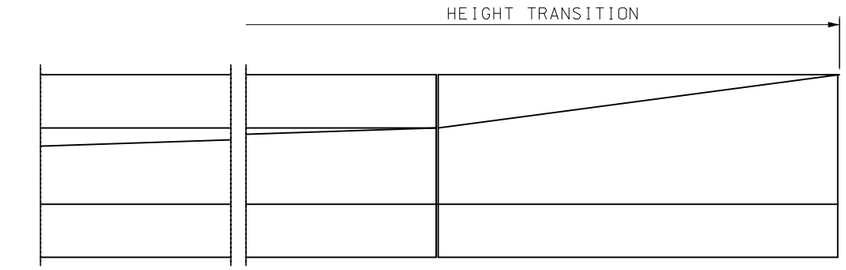
NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1½″ UNLESS OTHERWISE SHOWN.

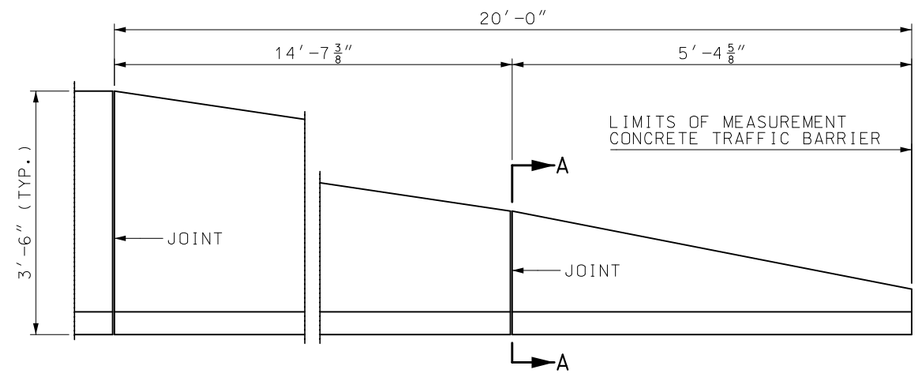
✳ TILT TRANSVERSE PAVEMENT REINFORCEMENT HOOKS FROM VERTICAL ALIGNMENT TO MAINTAIN 1½″ MINIMUM CLEARANCE.

✳✳ SEE ROADWAY PAVEMENT DESIGN.

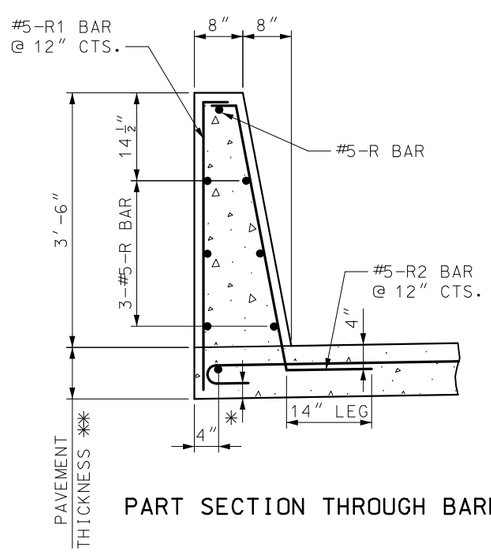
✳✳✳ R1 AND R2 MAY BE REPLACED WITH ALTERNATE (3′-3″) R1 AND R2 OR R5 ONLY FOR USE WITH OPTIONAL STIRRUP.



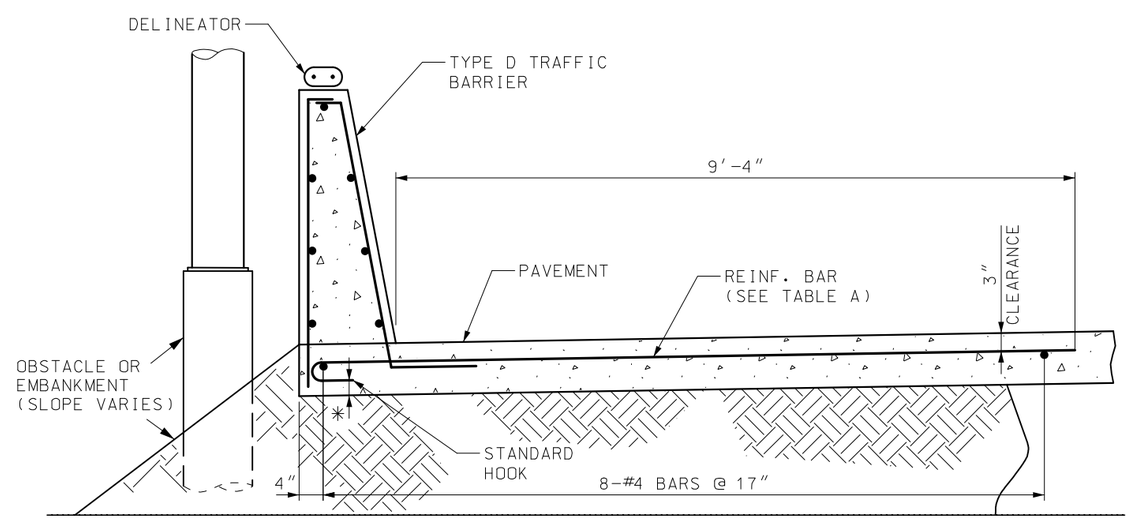
PLAN



ELEVATION
BARRIER HEIGHT TRANSITION



PART SECTION THROUGH BARRIER



TYPE D TRAFFIC BARRIER - MOMENT SLAB✳✳

TABLE A TRANSVERSE PAVEMENT REINFORCEMENT	
PAVEMENT THICKNESS ✳✳	BAR SIZE & SPACING
8″	#5 @ 4″✳
9″	#5 @ 5″✳
10″	#5 @ 6″
11″	#5 @ 7″
12″	#6 @ 12″
≥ 13″	#6 @ 12″

SPECIAL SHEET
TYPE D BARRIER
SHEET 1 OF 1

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

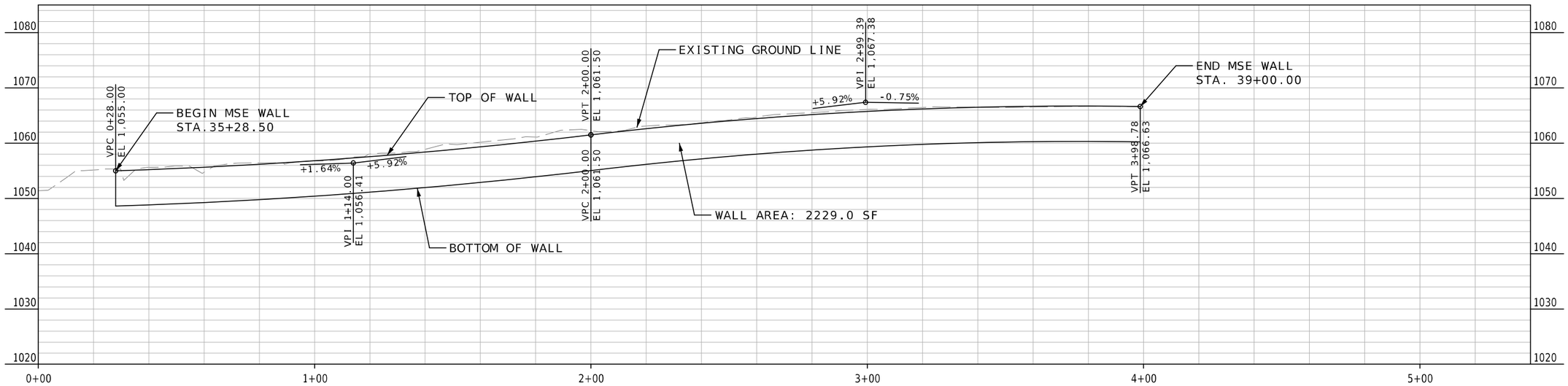
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE	DESCRIPTION

DATE PREPARED: 2/28/2025
ROUTE: FF | STATE: MO
DISTRICT: SW | SHEET NO.: 14
COUNTY: JASPER
JOB NO.: J7S3059B
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



SPECIAL SHEET
MSE WALL
SHEET 1 OF 1

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	15
COUNTY	JASPER
JOB NO.	J7S3059B
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)

Bartlett & West
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PHONE 573-634-3181
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WWW.BARTLETTWEST.COM

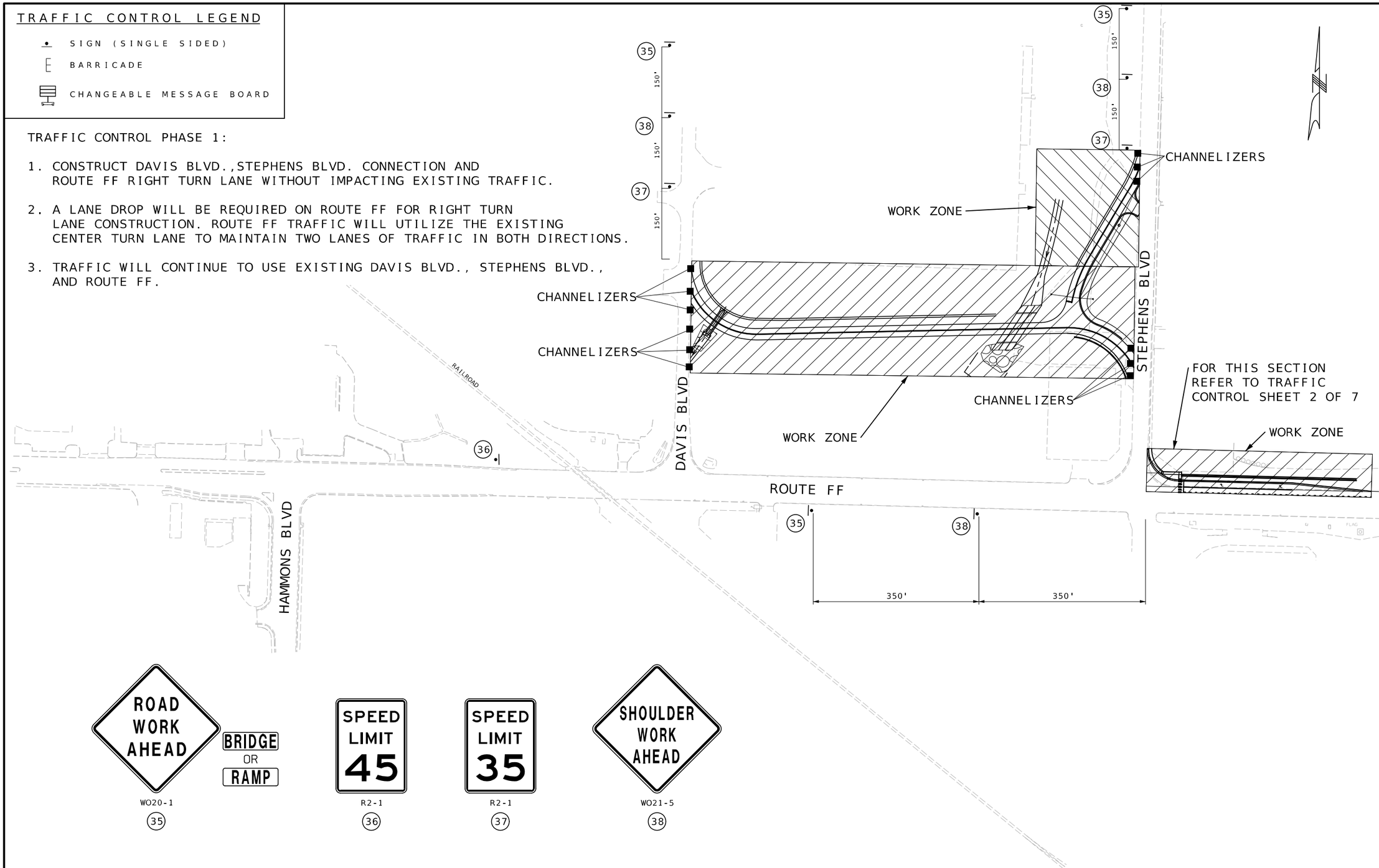
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- BARRICADE
- CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PHASE 1:

1. CONSTRUCT DAVIS BLVD.,STEPHENS BLVD. CONNECTION AND ROUTE FF RIGHT TURN LANE WITHOUT IMPACTING EXISTING TRAFFIC.
2. A LANE DROP WILL BE REQUIRED ON ROUTE FF FOR RIGHT TURN LANE CONSTRUCTION. ROUTE FF TRAFFIC WILL UTILIZE THE EXISTING CENTER TURN LANE TO MAINTAIN TWO LANES OF TRAFFIC IN BOTH DIRECTIONS.
3. TRAFFIC WILL CONTINUE TO USE EXISTING DAVIS BLVD., STEPHENS BLVD., AND ROUTE FF.



TRAFFIC CONTROL
PHASE 1
SHEET 1 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

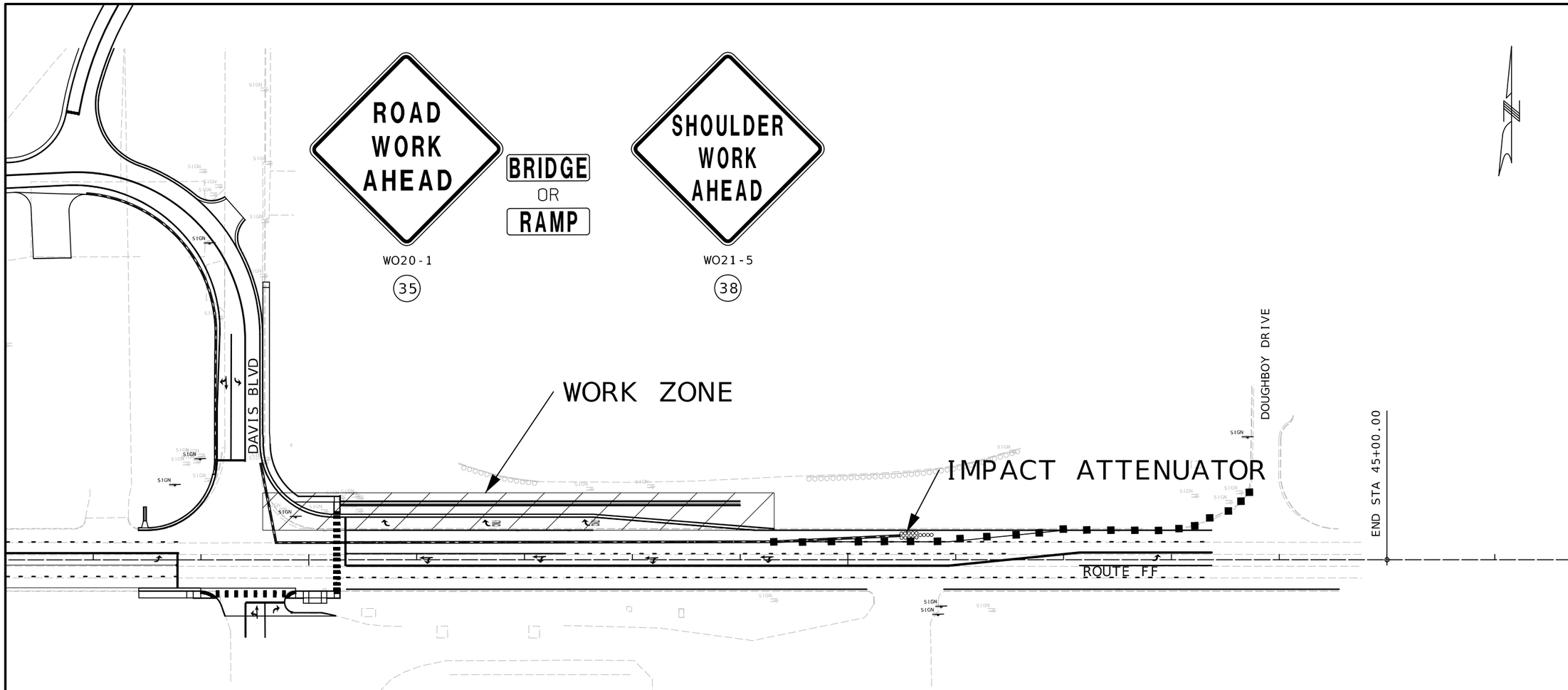
DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	16
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

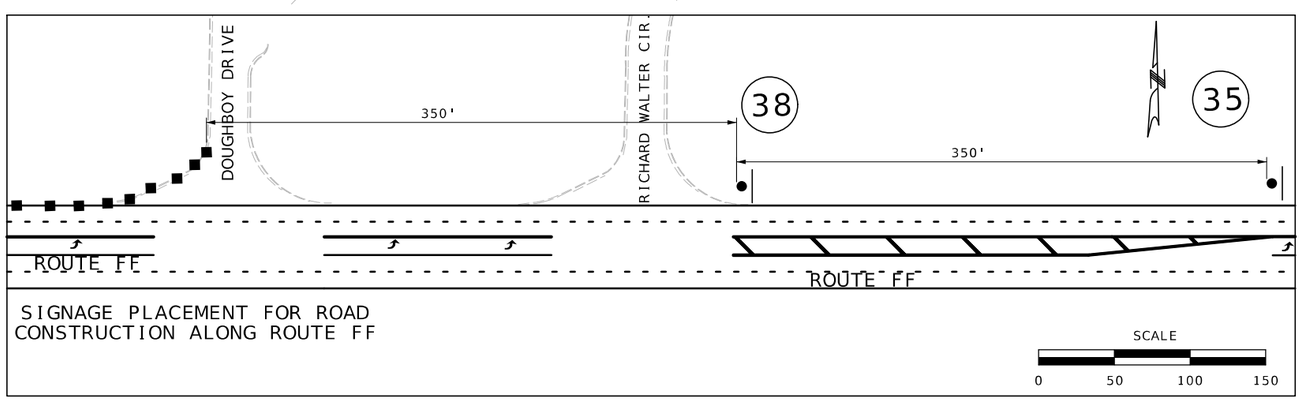
DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM





SIGNAGE PLACEMENT FOR ROAD CONSTRUCTION ALONG ROUTE FF

SCALE 0 50 100 150

TRAFFIC CONTROL
PHASE 1
SHEET 2 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	17
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

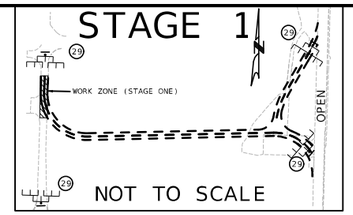
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

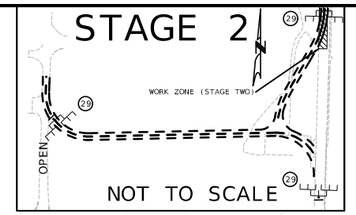
REV.

pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G40 - Jasper FF - Davis Boulevard/OpenRoads Designer/plan_sheets/3_Final Plans/017_TTC_02 OF 07_J7S3059B_I100.dgn 1:10:31 PM 2/28/2025

TRAFFIC CONTROL LEGEND

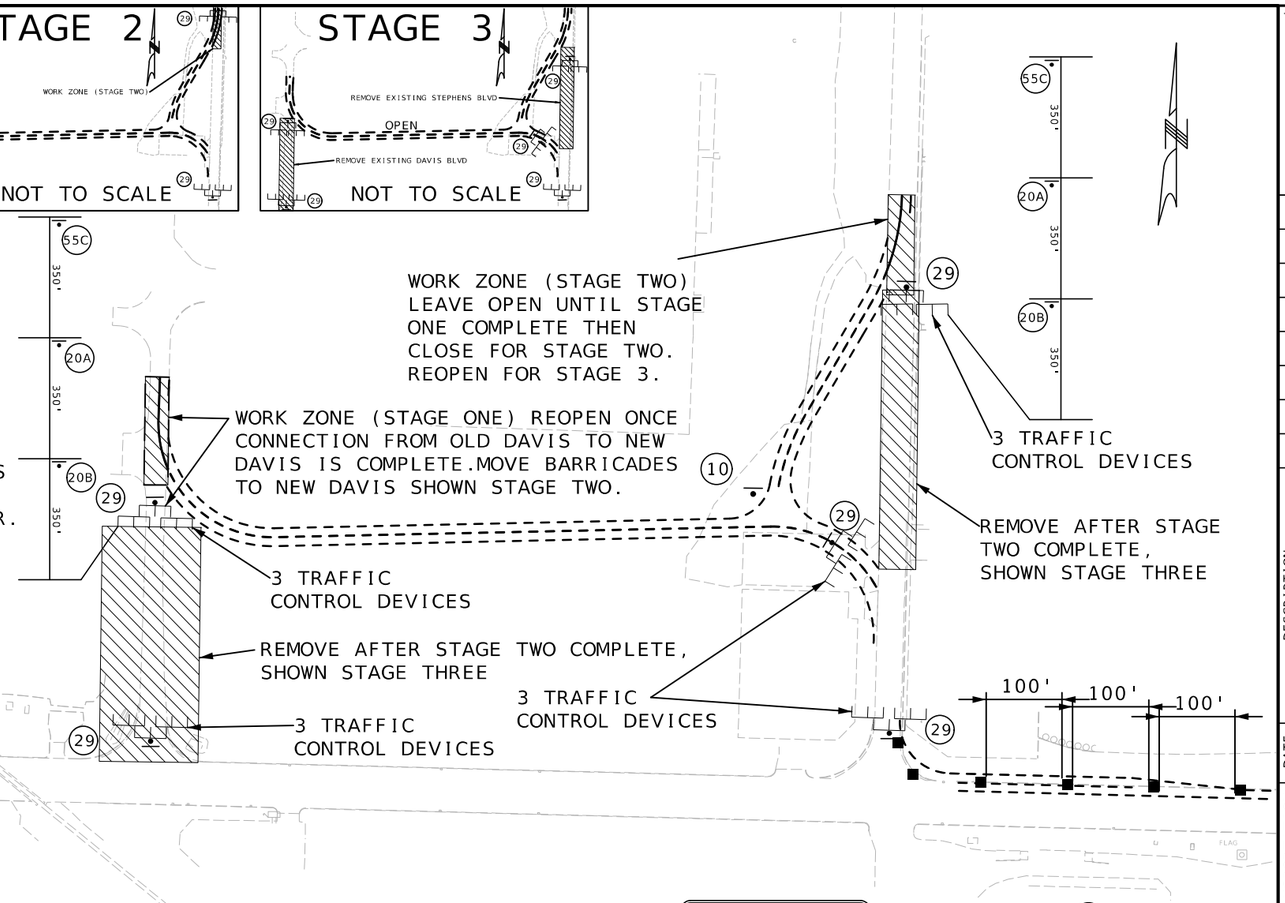
- SIGN (SINGLE SIDED)
- BARRICADE
- CHANGEABLE MESSAGE BOARD

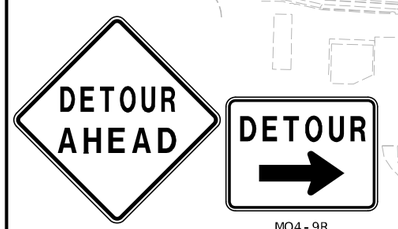




TRAFFIC CONTROL PHASE 2:

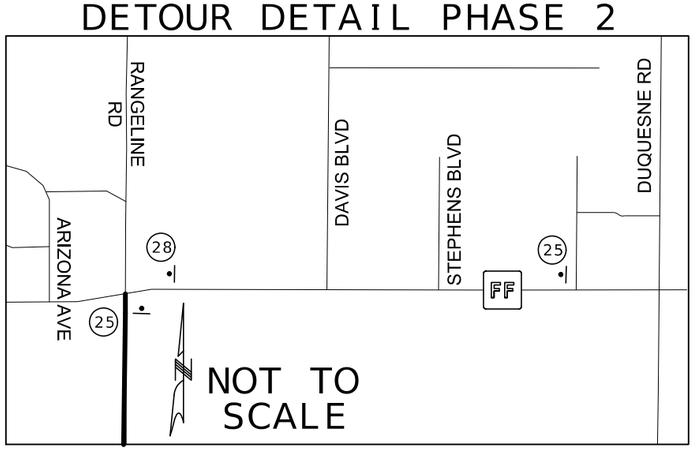
1. CONSTRUCT DAVIS BLVD. AND STEPHENS BLVD. TIE-INS TO EXISTING PAVEMENT. CONTINUE RIGHT TURN LANE CONSTRUCTION AT ROUTE FF.
2. TIE-IN CONSTRUCTION WILL BE DONE UNDER TRAFFIC WITH FLAGGER CONTROL OR AT OFF-PEAK TIMES WHEN TRAFFIC IS MINIMAL.
3. EXISTING DAVIS BLVD. AND ROUTE FF INTERSECTION SHALL BE CLOSED AND TRAFFIC DETOURED TO RANGELINE RD AND 20TH STREET.
4. EXISTING STEPHENS BLVD. WILL BE UTILIZED UNTIL TIE-IN TO NEW DAVIS BLVD. IS COMPLETE. ONCE THE TIE-INS ARE COMPLETE, TRAFFIC AT STEPHENS BLVD. WILL UTILIZE NEW DAVIS BLVD, AND 20TH STREET DETOUR. EXISTING STEPHENS BLVD. INTERSECTION WILL BE CLOSED.



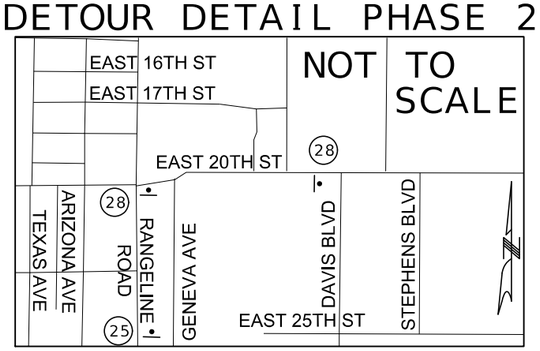


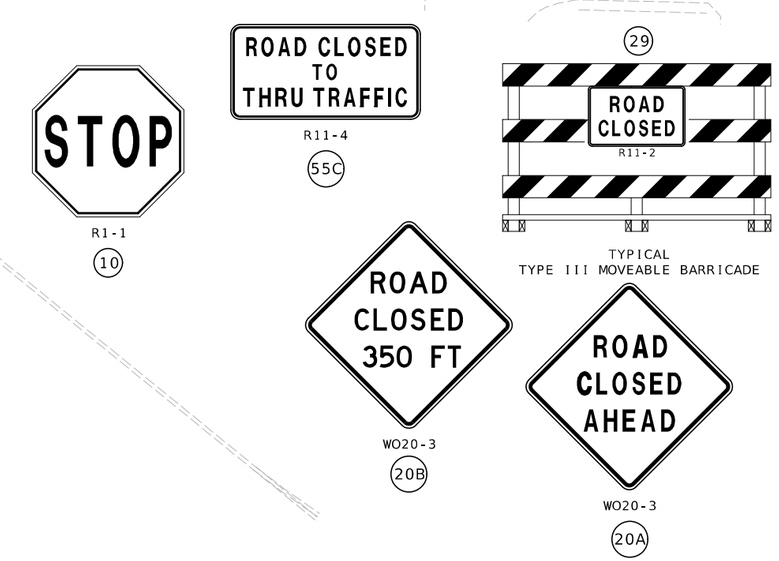
WO20-2 (25) MO4-9R (28)

DETOUR DETAIL PHASE 2



DETOUR DETAIL PHASE 2





SCALE
0 100 200 300 400 500

TRAFFIC CONTROL
PHASE 2
SHEET 3 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	18
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

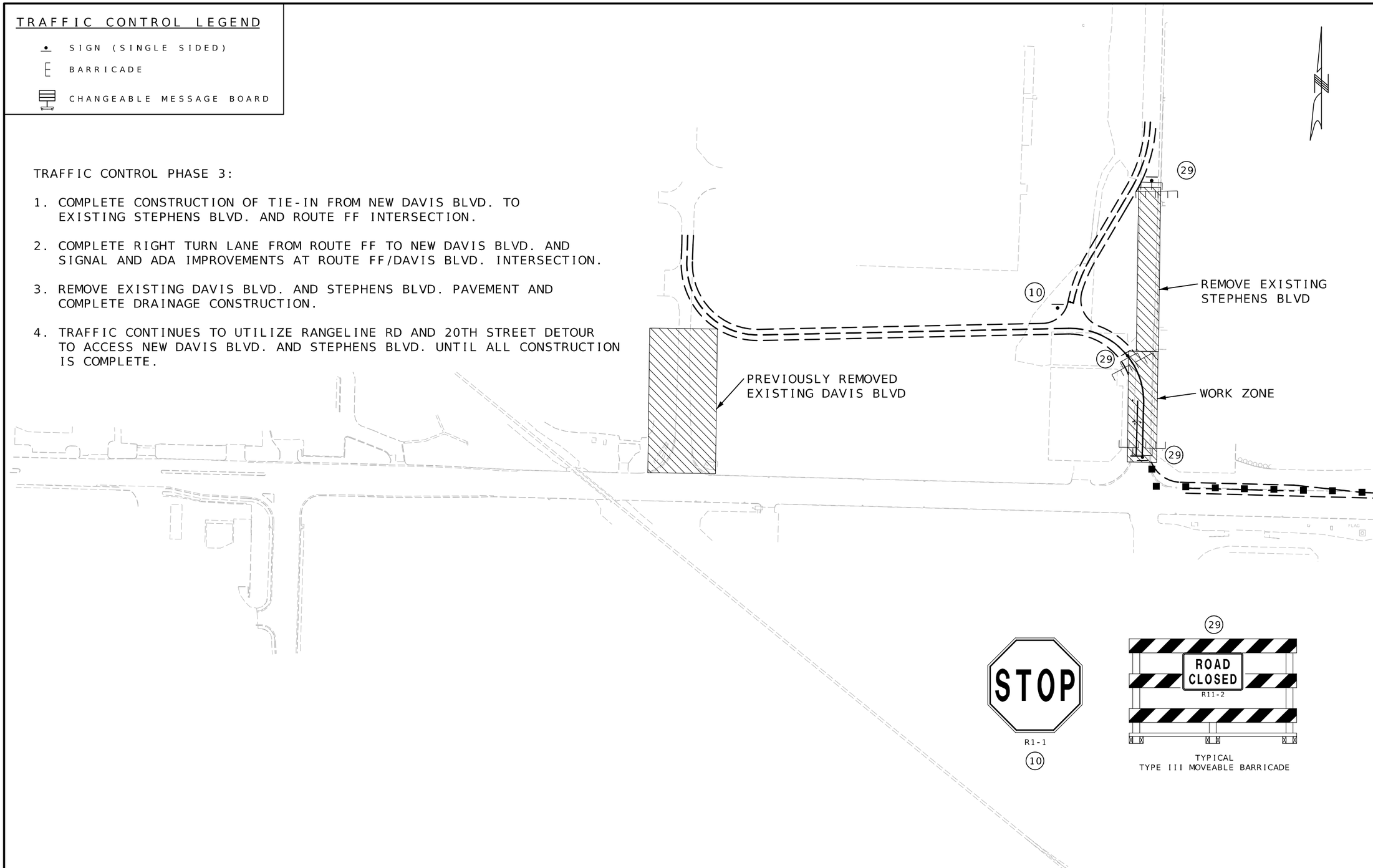
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- BARRICADE
- CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PHASE 3:

1. COMPLETE CONSTRUCTION OF TIE-IN FROM NEW DAVIS BLVD. TO EXISTING STEPHENS BLVD. AND ROUTE FF INTERSECTION.
2. COMPLETE RIGHT TURN LANE FROM ROUTE FF TO NEW DAVIS BLVD. AND SIGNAL AND ADA IMPROVEMENTS AT ROUTE FF/DAVIS BLVD. INTERSECTION.
3. REMOVE EXISTING DAVIS BLVD. AND STEPHENS BLVD. PAVEMENT AND COMPLETE DRAINAGE CONSTRUCTION.
4. TRAFFIC CONTINUES TO UTILIZE RANGELINE RD AND 20TH STREET DETOUR TO ACCESS NEW DAVIS BLVD. AND STEPHENS BLVD. UNTIL ALL CONSTRUCTION IS COMPLETE.



TRAFFIC CONTROL
PHASE 3
SHEET 4 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-28546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	19
COUNTY	JASPER
JOB NO.	J7S3059B
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
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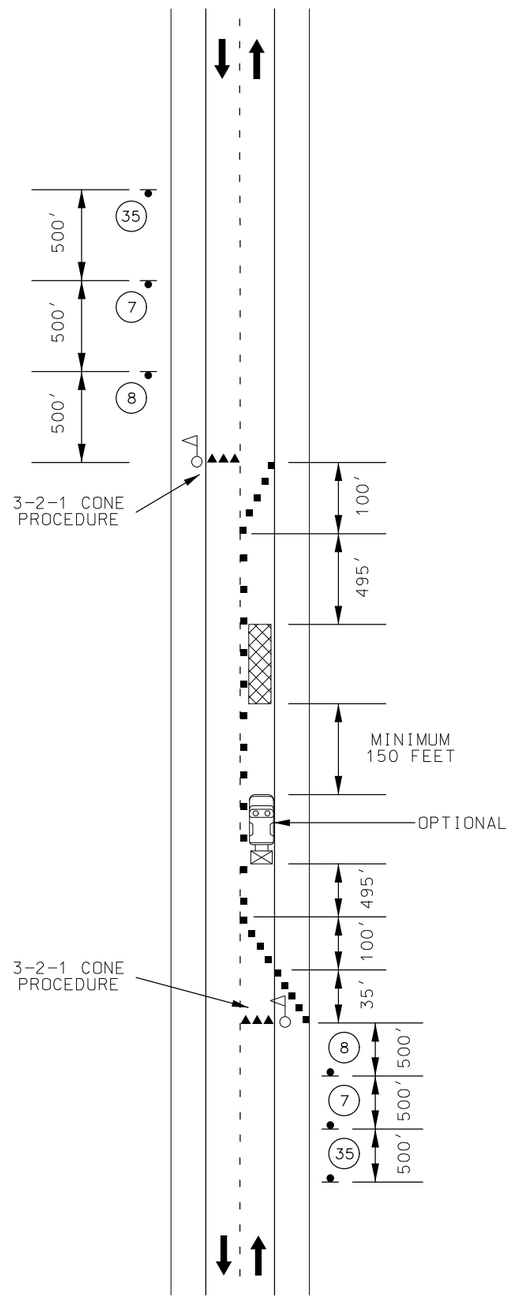


LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS

TRAFFIC CONTROL LEGEND

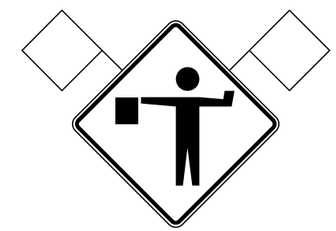
- SIGN (SINGLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- PROTECTIVE VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- WORK SPACE

WO20-1

35

WO20-4

7



WO20-7a

8

NOTES:

THE FLAGGER SHALL FOLLOW THE PROCEDURES PROVIDED IN EPG 616.5.07 AND 616.05.08

DAYLIGHT FLAGGING OPERATIONS ONLY.

NO DIRECT PAYMENT WILL BE MADE FOR DRUM-LIKE, OR TRIM-LINE CHANNELIZERS. OR FOR THE RELOCATION OF CHANNELIZERS AS SHOWN ON THE PLANS.

TRAFFIC CONTROL PLAN
LANE CLOSURE
SHEET 5 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	19
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
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PHONE 573-634-3181
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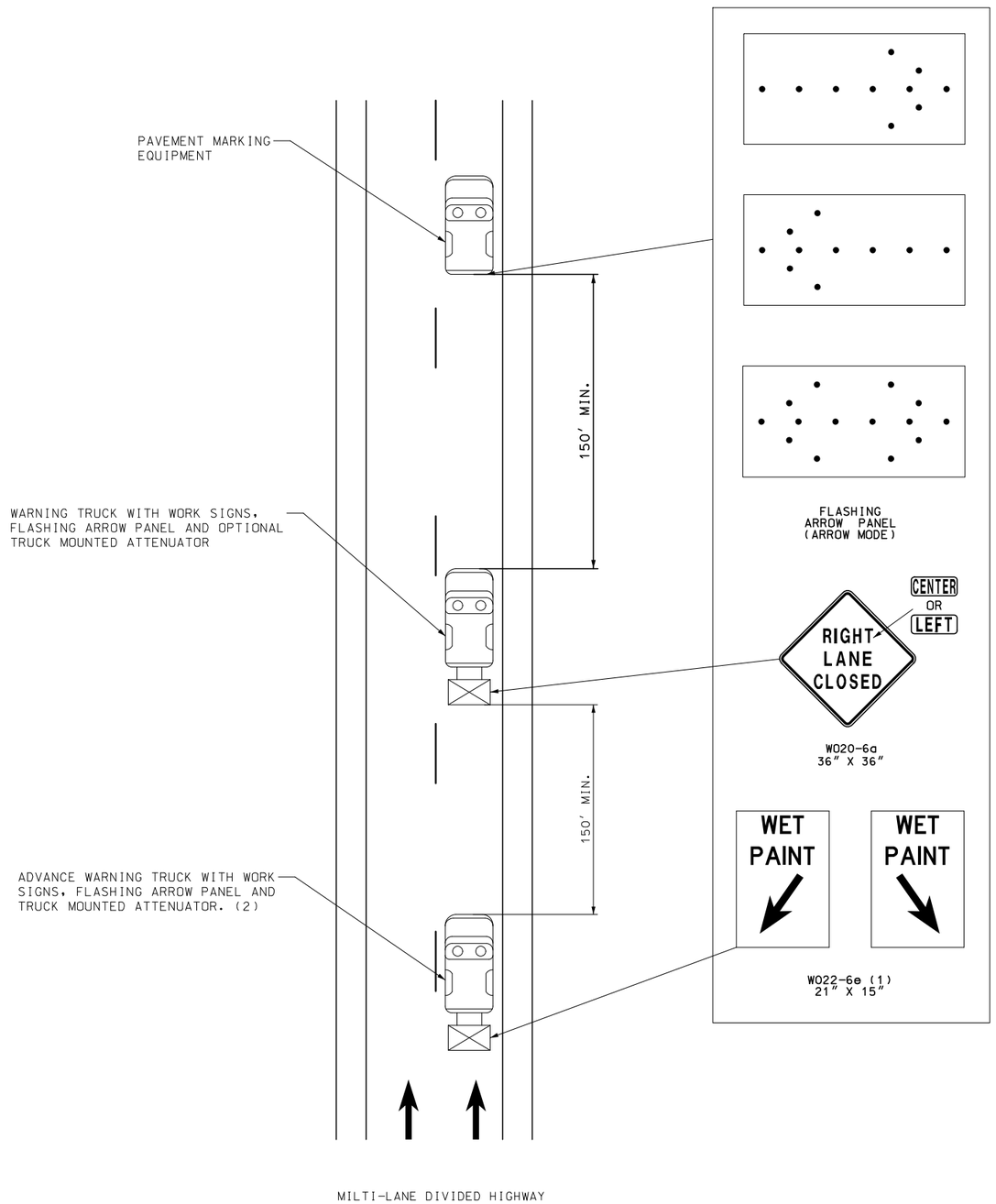


TRAFFIC CONTROL FOR MOVING PAVEMENT MARKING

NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN. WHICHEVER IS GREATER.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAT HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

THE STRIPING OPERATION SHALL BE COMPLETED UNDER A LANE CLOSURE.

TRAFFIC CONTROL SHEET
SHEET 6 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	21
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

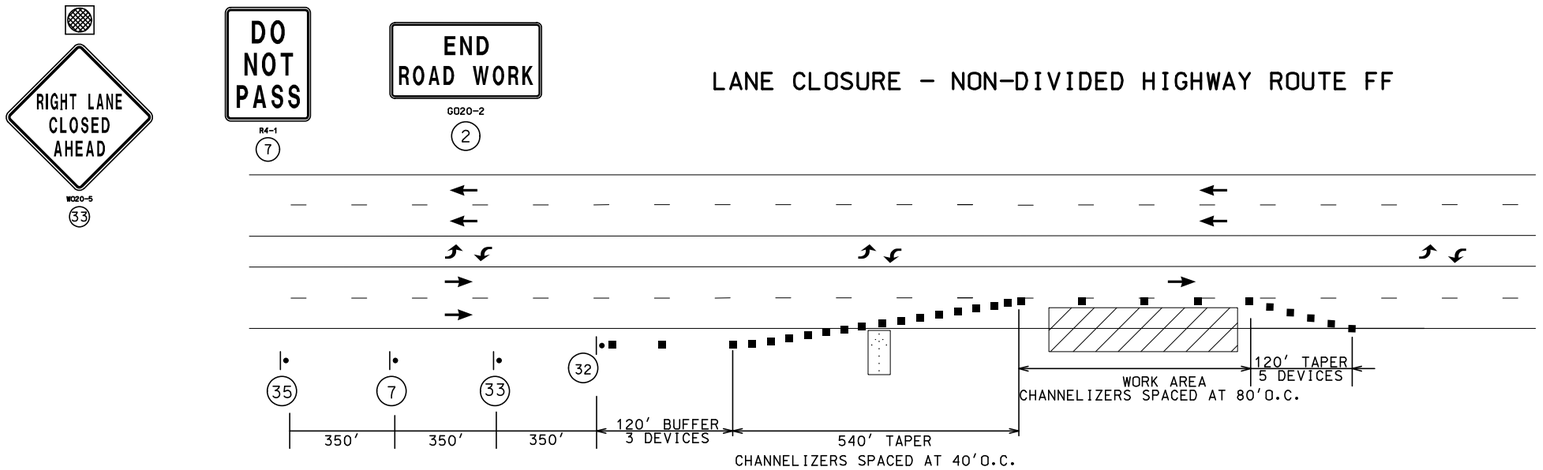
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

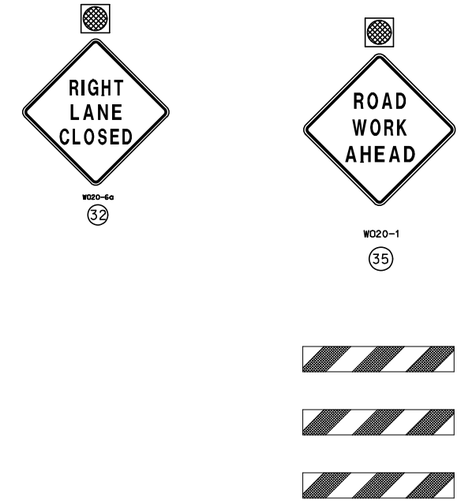
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

REV.

LANE CLOSURE - NON-DIVIDED HIGHWAY ROUTE FF





GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. QUANTITIES FOR TRAFFIC CONTROL ASSUMES TWO LANE DROPS FOR TWO BLOCK WORK AREA.
3. DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS AND AS APPROVED BY THE ENGINEER. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
4. ALL SIGNS SHALL BE PORTABLE UNLESS OTHERWISE NOTED.
5. TWO CHANGEABLE MESSAGE SIGNS TO BE LOCATED AS APPROVED BY THE ENGINEER.
6. LAYOUT IS SHOWN FOR EAST BOUND LANE BUT SHOULD BE MIRRORED FOR WEST BOUND LANE.
7. ALL REDUCTION IN LANES SHALL BE DURING NIGHT TIME HOURS ONLY.
8. ROAD WORK AHEAD SIGNS TO BE PLACED ON EACH SIDE ROAD WITHIN THE WORK ZONE.

NOTES:

SIGN (1) NOT NEEDED IF LOCATED WITHIN LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN (1) IS ALREADY USED.

NOT TO SCALE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- WORK ZONE
- DIRECTIONAL INDICATOR BARRICADE
- BARRICADE
- ARROW PANEL

LONGITUDINAL BUFFER SPACE	
POSTED SPEED PRIOR TO CONSTRUCTION, MPH	LENGTH, FT.
UP TO 35	280
40-45	400
50-55	560
60-70	840

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES [2]				
SPEED MPH (S) [1]	TAPER LENGTHS (L) FOR LATERAL SHIFTS (W) FT [2]		CHANNELIZER SPACING [3], FT	
	SHOULDER [4] (T1)	LANE [5] (T2)	TAPERS	BUFFER/ WORK AREA
UP TO 35	70	245	35[6]	40[6]
40-45	150	540	40[6]	80[6]
50-55	185	660	50[7]	80[7]
60-70	235	840	60[7]	120[7]

1) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT.
2) TAPER LENGTHS MAY BE ADJUSTED TO ACCOMMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
3) CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
4) BASED ON 10 FT. SHOULDER WIDTH.
5) BASED ON 12 FT. LANE WIDTH.
6) SPACING REDUCED TO 1/2 AT INTERSECTIONS.
7) SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

SIGN SPACING FOR ADVANCE SIGN SERIES [8, 9]		
POSTED SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA - 1000 FT, SB - 1500 FT AND SC - 2640 FT	

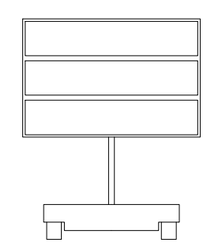
8) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
9) SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TAPER LENGTH (L)

$L = W \times P$ FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH



FOUR CHANGEABLE MESSAGE SIGNS INCLUDED IN CONTRACT. LOCATION TO BE DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL PLAN
SHEET 7 OF 7

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	22
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

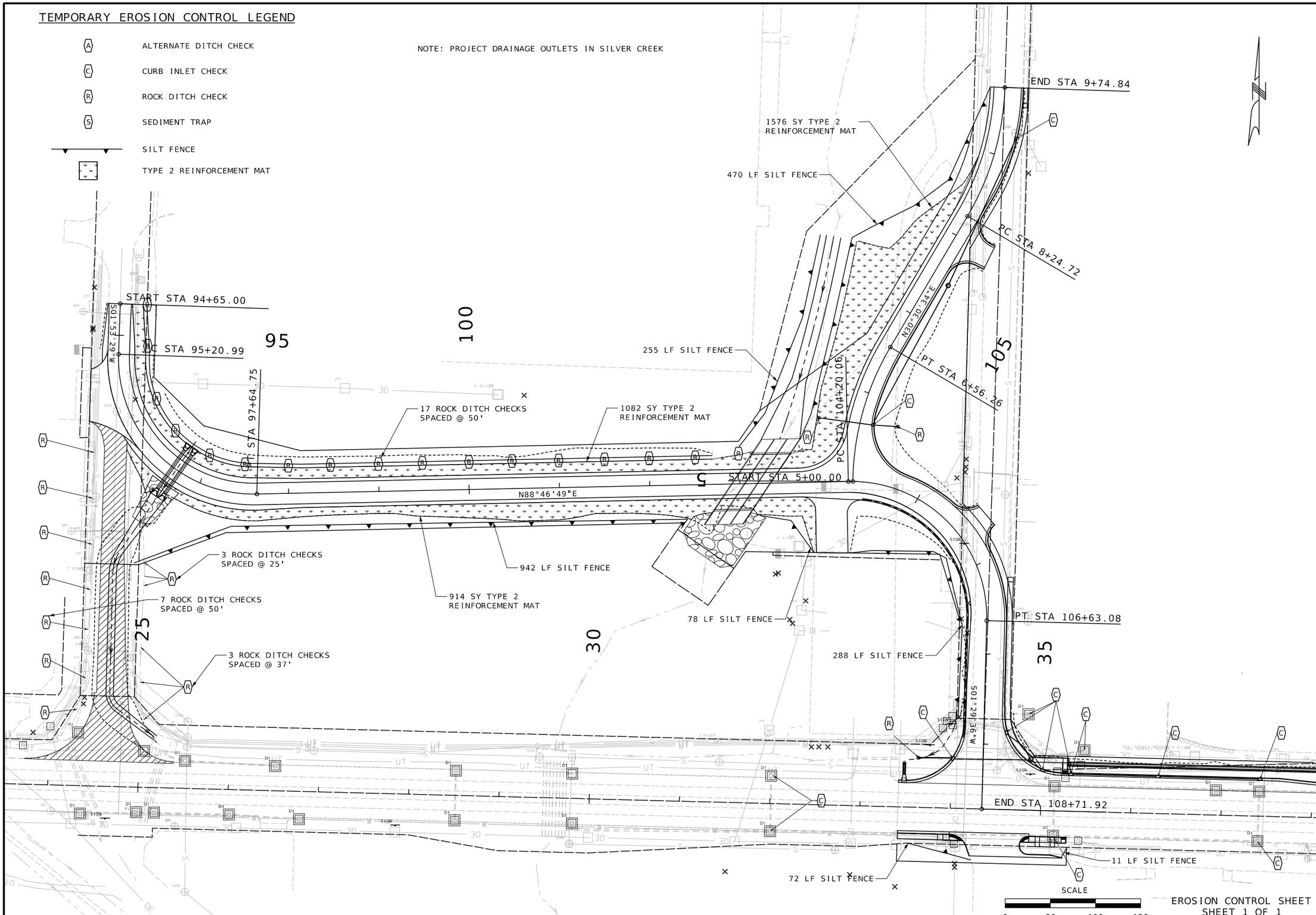
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE
- TYPE 2 REINFORCEMENT MAT

NOTE: PROJECT DRAINAGE OUTLETS IN SILVER CREEK



EROSION CONTROL SHEET
SHEET 1 OF 1

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/24/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	23
COUNTY	JASPER
JOB NO.	J7S3059B
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)

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

pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G40 - Jasper FF - Davis Boulevard/OpenRoads Designer/plan_sheets/3_Final Plans/023_EC_01_01_J7S3059B_I50.dgn 3:03:38 PM 3/24/2025

SUMMARY OF LIGHTING QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN	ROUTE FF/32ND ST.	
				AT HAMMONS BLVD.	AT DAVIS BLVD.
901.10-30	LIGHTING POLE, 30 FT., TYPE AT	EA	1		1
901.11-15	BRACKET ARM, 15 FT.	EA	1		1
901.13-11	LUMINAIRE, LED-A	EA	1		1
901.22-30	BASE MOUNTED CONTROL STATION 240 VOLT - 4 CIRCUIT	EA	1		1
901.30-02	CONDUIT, 2 IN. RIGID, IN TRENCH	LF	20		20
901.30-03	CONDUIT, 3 IN. RIGID, IN TRENCH	LF	40		40
901.40-03	CONDUIT, 3 IN. RIGID, PUSHED	LF	80		80
901.61-20	PULL BOX, CONCRETE, STANDARD	EA	2		2
901.70-01	CABLE, 1 AWG 1 CONDUCTOR	LF	60		60
901.71-10	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	90		90
901.74-07	CABLE-CONDUIT, 1 IN., 2 CONDUCTORS AND 1 BARE NEUTRAL, 8 AWG	LF	120		120
901.82-30	POLE FOUNDATION, 30 FT MOUNTING HEIGHT	EA	1		1
901.86-13	POWER SUPPLY ASSEMBLY, TYPE 2, 240/120V, LIGHTING AND SIGNALS	EA	1		1

SUMMARY OF LIGHTING EQUIPMENT LOCATIONS

PULL BOX	POLE	STA.	OFFSET	NOTES
11		35+18.65	37.23 RT.	
12		35+20.30	46.41 LT.	
	L1	35+13.28	46.76 LT.	TYPE IV DISTRIBUTION
	3	SEE SIGNAL PLANS		TYPE IV DISTRIBUTION

SUMMARY OF LIGHTING QUANTITIES
LIGHTING SHEET 1 OF 2

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 3/25/2025
ROUTE: FF | STATE: MO
DISTRICT: SW | SHEET NO.: 24
COUNTY: JASPER
JOB NO.: J7S3059B
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)

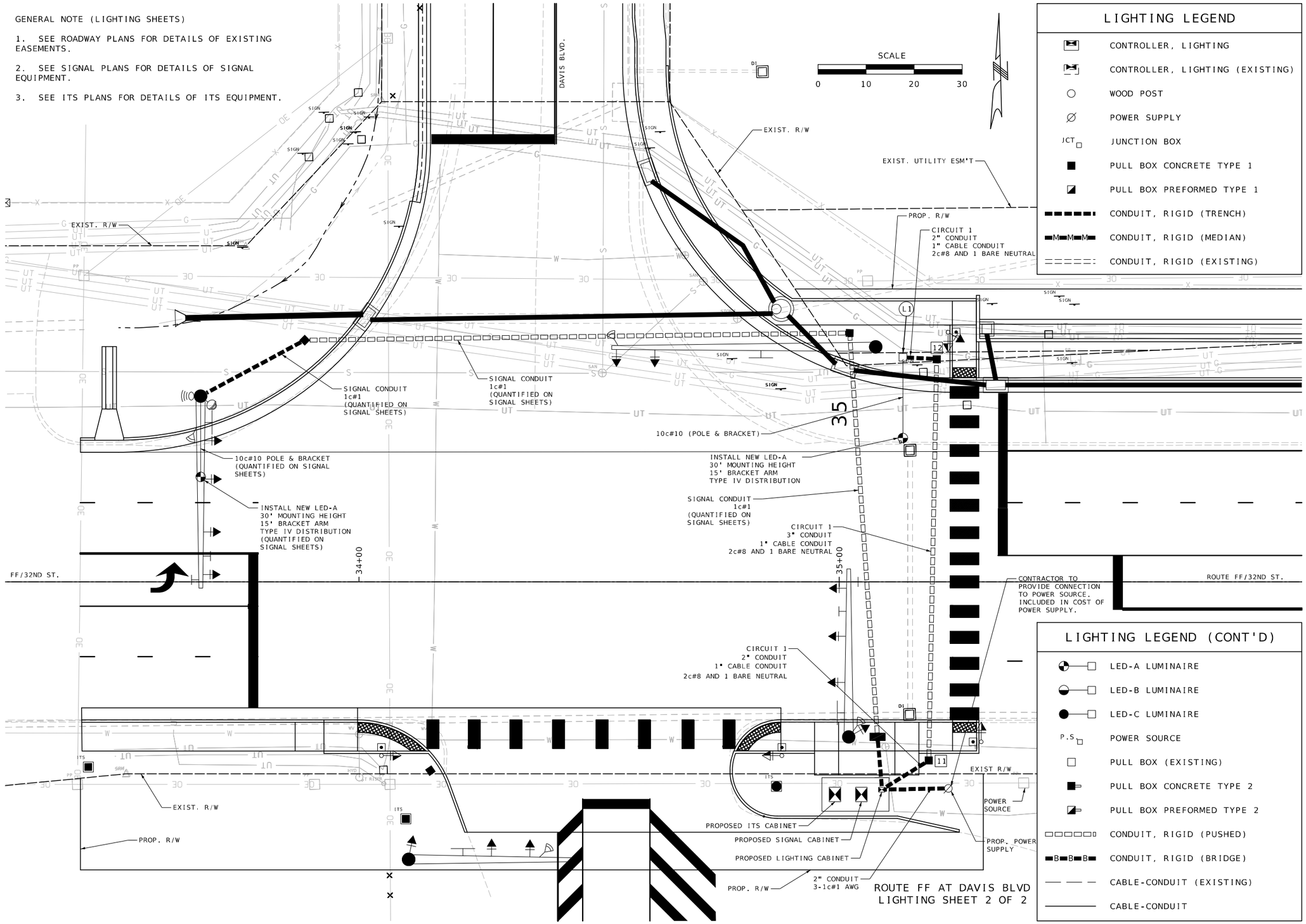
Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE (LIGHTING SHEETS)

1. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

2. SEE SIGNAL PLANS FOR DETAILS OF SIGNAL EQUIPMENT.

3. SEE ITS PLANS FOR DETAILS OF ITS EQUIPMENT.



ROUTE FF AT DAVIS BLVD
LIGHTING SHEET 2 OF 2

LIGHTING LEGEND

- CONTROLLER, LIGHTING
- CONTROLLER, LIGHTING (EXISTING)
- WOOD POST
- POWER SUPPLY
- JCT JUNCTION BOX
- PULL BOX CONCRETE TYPE 1
- PULL BOX PREFORMED TYPE 1
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (MEDIAN)
- CONDUIT, RIGID (EXISTING)

LIGHTING LEGEND (CONT'D)

- LED-A LUMINAIRE
- LED-B LUMINAIRE
- LED-C LUMINAIRE
- P.S POWER SOURCE
- PULL BOX (EXISTING)
- PULL BOX CONCRETE TYPE 2
- PULL BOX PREFORMED TYPE 2
- CONDUIT, RIGID (PUSHED)
- CONDUIT, RIGID (BRIDGE)
- CABLE-CONDUIT (EXISTING)
- CABLE-CONDUIT

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/25/2025	
ROUTE FF	STATE MO
DISTRICT SW	SHEET NO. 25
COUNTY JASPER	
JOB NO. J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SUMMARY OF SIGNAL QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN
902.02-13	SIGNAL HEAD, TYPE 3S	EA	2
902.02-14	SIGNAL HEAD, TYPE 4S	EA	1
902.05-13	SIGNAL HEAD, TYPE 3B	EA	8
902.05-14	SIGNAL HEAD, TYPE 4B	EA	3
902.08-11	SIGNAL HEAD, TYPE 1S, PEDESTRIAN	EA	4
902.08-33	SH-FLAT SHEET - SIGNAL SIGN	SF	68
902.08-34	SIGNAL SIGN, MOUNTING HARDWARE	EA	8
902.26-51	LUMINAIRE, LED-A	EA	1
902.27-08	POST, SIGNAL 8 FT.	EA	3
902.27-15	POST, SIGNAL 15 FT.	EA	1
902.31-40	POST, TYPE CL, 40 FT. ARM	EA	1
902.32-35	POST, TYPE C, 35 FT. ARM	EA	2
902.32-55	POST, TYPE C, 55 FT. ARM	EA	1
902.49-21	ACCESSIBLE PEDESTRIAN SIGNAL	EA	4
902.52-00	CONDUIT, 2 IN., TRENCH WITH TRACER WIRE	LF	30
902.53-00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LF	103
902.54-00	CONDUIT, 4 IN., TRENCH WITH TRACER WIRE	LF	98
902.74-00	CONDUIT, 4 IN., PUSHED WITH TRACER WIRE	LF	368
902.81-00	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	100
902.82-01	CABLE, 1 AWG 1 CONDUCTOR, POWER	LF	140
902.83-02	CABLE, 12 AWG 2 CONDUCTOR	LF	270
902.83-08	CABLE, 16 AWG 2 CONDUCTOR	LF	410
902.83-10	CABLE, 16 AWG 5 CONDUCTOR	LF	410
902.83-11	CABLE, 16 AWG 7 CONDUCTOR	LF	2,140
902.88-20	PULL BOX, CONCRETE, STANDARD	EA	3
902.88-21	PULL BOX, CONCRETE, DOUBLE TYPE A	EA	1
902.91-00	BASE, CONCRETE	CUYD	15.6
902.99-01	MISC. {SIGNAL COMMUNICATION}	LS	1
902.99-01{1}	MISC. {RADAR DETECTION SYSTEM, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED}	LS	1
902.99-02	MISC. {SIGNAL CONTROLLER AND CABINET, TYPE 2070}	EA	1
902.99-02{1}	MISC. {UNINTERRUPTABLE POWER SUPPLY (UPS)}	EA	1

✳ SIGNAL QUANTITIES SHOWN ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY. SEE D37 SHEETS FOR OFFICIAL QUANTITIES.

SUMMARY OF SIGNAL QUANTITIES
SIGNAL SHEET 1 OF 7

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/7/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 26
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE (SIGNAL SHEETS)

GENERAL: USE 4" CONDUIT

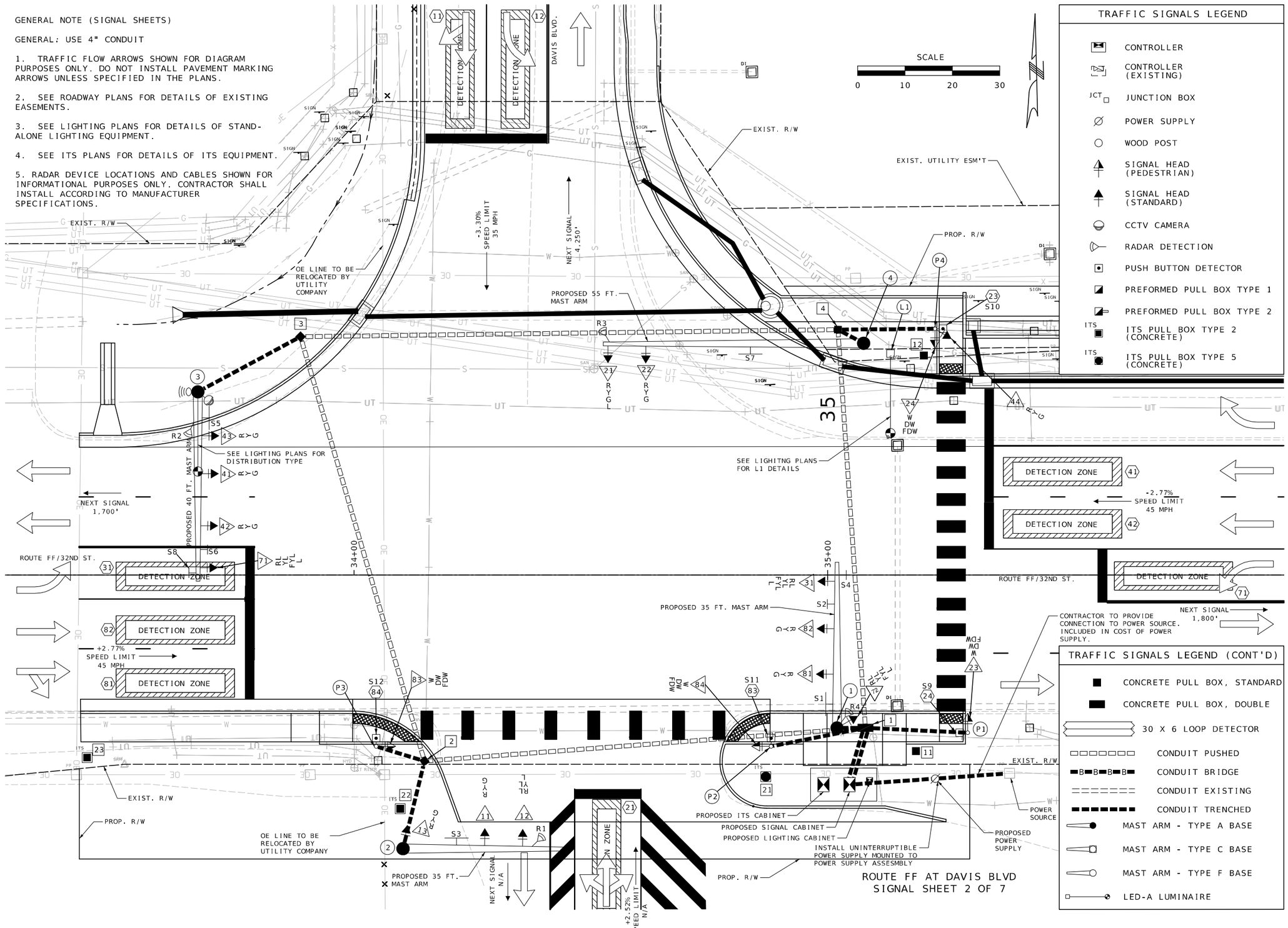
1. TRAFFIC FLOW ARROWS SHOWN FOR DIAGRAM PURPOSES ONLY. DO NOT INSTALL PAVEMENT MARKING ARROWS UNLESS SPECIFIED IN THE PLANS.

2. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

3. SEE LIGHTING PLANS FOR DETAILS OF STAND-ALONE LIGHTING EQUIPMENT.

4. SEE ITS PLANS FOR DETAILS OF ITS EQUIPMENT.

5. RADAR DEVICE LOCATIONS AND CABLES SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL INSTALL ACCORDING TO MANUFACTURER SPECIFICATIONS.



ROUTE FF AT DAVIS BLVD
SIGNAL SHEET 2 OF 7

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- RADAR DETECTION
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- ITS PULL BOX TYPE 2 (CONCRETE)
- ITS PULL BOX TYPE 5 (CONCRETE)

TRAFFIC SIGNALS LEGEND (CONT'D)

- CONCRETE PULL BOX, STANDARD
- CONCRETE PULL BOX, DOUBLE
- 30 X 6 LOOP DETECTOR
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE
- LED-A LUMINAIRE

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2006002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/25/2025	
ROUTE: FF	STATE: MO
DISTRICT: SW	SHEET NO.: 27
COUNTY: JASPER	
JOB NO.: J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

Bartlett & West
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PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE: 07/01/2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	STATION	OFFSET	BASE A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CONCRETE CLASS 1	CLASS 2	CLASS 3	CLASS 5	STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE* I	II A	II B	II C	TOP MOUNT POST 8 FT.	15 FT.	TYPE C & CL ARM LENGTH TYPE C 35	55	TYPE CL 40	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'
		SE CORNER	CONTROLLER	(AS REQ'D)														1.31																									
1		SE CORNER	35+01.99	32.3 RT		1												3.01														1				10.9	9.6	10.0		4.5	28.7	6.2	
2		SW CORNER	34+10.34	57.8 RT		1												3.01														1				21.9	8.0			10.8			
3		NW CORNER	33+67.02	38.7 LT				1										3.27																1		8.8	8.0	11.0	8.9	5.0	29.3	4.9	
4		NE CORNER	35+07.61	48.9 LT				1										3.27															1			45.5	8.0			23.4			
P1		SE CORNER	34+86.70	57.4 LT													1	0.44												1														
P2		SE CORNER	34+88.07	36.2 RT													1	0.44												1														
P3		SW CORNER	34+04.67	36.2 RT													1	0.44												1														
P4		NE CORNER	35+22.68	52.4 LT													1	0.44													1													
	1	SE CORNER	35+07.99	32.3 RT																				1		1																		
	2	SW CORNER	34+14.88	39.3 RT																			1			1																		
	3	NW CORNER	33+88.69	50.3 LT																			1				1																	
	4	NE CORNER	35+02.18	51.8 LT																			1			1																		
				SUBTOTAL														15.63					3	1						3	1	2	1	1										
				TOTAL														15.6					3	1						3	1	2	1	1										

POST NUMBER	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
1																													1

SUBTOTAL	3	1	2	1	1
TOTAL	3	1	2	1	1

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE LED-A	INDICATIONS * 12" LENS CONVENTIONAL R	Y	YL	RL	FYL	FYR	G	S	L	Rt	12" LENS OPTICAL LIMITING R	Y	YL	YRt	YL	YRt	G	S	L	Rt	VISORS * 12" LENS	PED.	LOUVERS * A	B	C	D	E	F	BACKPLATE* LENSES 1	2	3	4	5	RETROREFLECTIVE BACKPLATE* LENSES 1	2	3	4	5	BRACKET* TYPE I	II	III
1	1	1				1	1	1				1												4										1									1		
1	1	2		1	1					1														3									1										1		
1	1	3		1	1					1														3									1										1		
1	2	1				1	1	1				1												4										1									1		
2	2	2		1	1					1														3									1										1		
2	2	1				1	1					1												3									1										1		
2	2	3		1	1					1														3									1										1		
3	1	1				1	1	1				1												4										1									1		
3	1	2		1	1					1														3									1										1		
3	1	3		1	1					1														3									1										1		
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3	2	2		1	1					1														3									1										1		
3	2	3		1	1					1														3									1										1		
3			1																																										
4	1	1		1	1					1		1												4										1									1		
4	1	2		1	1					1														3									1										1		
P1	1	1												1											1																					
P2	1	4												1											1																					
P3	1	1												1											1																					
P4	1	4												1											1																					
P4	1	2		1	1					1														3									1										1		

SUBTOTAL	1
TOTAL	1

	ONE-FACE SECTIONS 1- T	S	C	B	3- T	S	C	B	4- T	S	C	B	5- T	S	C	B	TWO-FACE SECTIONS 11- T	S	B	33- T	S	C	B	34- S	B	35- S	B	44- S	B	45- S	B
SUBTOTAL OPTICALLY LIMITED																															
SUBTOTAL CONVENTIONAL	4				2				8				1				3														
SUBTOTAL COMBINATION OL & CONV																															
TOTAL OPTICALLY LIMITED																															
TOTAL CONVENTIONAL	4				2				8				1				3														
TOTAL COMBINATION OL & CONV																															

NOTE: USE TYPE IV DISTRIBUTION FOR LUMINAIRE ON POST 3

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

ROUTE FF AT DAVIS BOULEVARD
(SIGNAL SHEET 3 OF 7)

INTERSECTION

LEGEND
T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

D-37A

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/25/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 28
COUNTY JASPER
JOB NO. J7S3059B
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

EFFECTIVE: 10-01-2015

PS = POWER SOURCE

Ø = POWER SUPPLY

* FOR INFORMATION ONLY, PAID UNDER CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

** SEE LIGHTING PLANS FOR DETAILS OF STAND-ALONE LIGHTING POLE

*** SEE COMMUNICATIONS/ITS PLANS FOR DETAILS OF CCTV AND RADIO CABLES

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET. 1"	TRENCH 2"	TRENCH 3"	TRENCH 4"	TRENCH	PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"	ON STRUCTURE	REMARKS
PS	Ø	16															INCLUDED IN COST OF POWER SUPPLY
Ø	▶◀	20		30													
LT CABINET	[1]	11			14												
▶◀	[1]	12				32											TWO RUNS
[1]	(1)	6				9											
[1]	(P1)	23			24												
[1]	(P2)	27			28												
[1]	[2]	96								94							
[1]	[5]	72								70							
[2]	(2)	20				23											
[2]	(P3)	7			8												
[2]	[3]	94								92							
[5]	(4)	6				9											
[5]	(P4)	28			29												
[5]	[4]	114								112							
[4]	[3]	17				15											
[3]	(3)	7				10											
SUBTOTALS				30	103	98				368							
TOTALS				30	103	98				368							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1C#1	POWER 1C#8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL 3c #16	CLOSED LOOP INTERCONNECT 3 PAIR #16	LUMINAIRE CONTROL 2c #12	LUMINAIRE POLE & BRACKET 1c #10	RADAR SENSOR 6c	CCTV CAT5	RADIO CAT5	FIBER MULTI-MODE	REMARKS
PS	Ø	16														INCLUDED IN COST OF POWER SUPPLY
Ø	▶◀	20	138													THREE RUNS
DAVIS BOULEVARD																
SOUTHEAST CORNER																
▶◀	[1]	26														
▶◀	(1)	19														
▶◀	▽31	19					89									
▶◀	▽81	19					89									
▶◀	▽82	19					35									JUMPER FROM 82 TO 81
▶◀	▽72	19					46									
▶◀	R4	19										66				
▶◀	(P1)	35														
▶◀	▽23	35				59										
▶◀	⬡24	35			58											
▶◀	(P2)	40														
▶◀	▽84	40				64										
▶◀	⬡83	40			63											
SOUTHWEST CORNER																
▶◀	[2]	109														
▶◀	(2)	129														
▶◀	▽11	129					205									
▶◀	▽12	129					205									
▶◀	▽13	129					35									JUMPER FROM 11 TO 13
▶◀	R1	129										190				
▶◀	(P3)	115														
▶◀	▽83	115				145										
▶◀	⬡84	115			144											
NORTHWEST CORNER																
▶◀	[3]	228														
▶◀	[4]	210														
▶◀	(3)	235								267						
▶◀	▽41	235					328									
▶◀	▽42	235					40									JUMPER FROM 42 TO 41
▶◀	▽43	235					328									
▶◀	▽71	235					328									
▶◀	R3	235										308				
ITS CABINET	CCTV	229											298***			
ITS CABINET	RADIO	229												298***		
(3)	POLE										100					
NORTHEAST CORNER																
▶◀	[5]	97														
▶◀	(4)	103														
▶◀	▽21	103					55									JUMPER FROM 21 TO 22
▶◀	▽22	103					199									
▶◀	R3	103										164				
▶◀	(P4)	126														
▶◀	▽24	126				144										
▶◀	▽44	126					155									
▶◀	⬡23	126			143											
LT CABINET	POLE									**	**					
SUBTOTALS			138		408	412	2137			267	100	728*	298***	298***		
TOTALS			140		410	410	2140			270	100	*	***	***		

INTERSECTION ROUTE FF AT DAVIS BOULEVARD (SIGNAL SHEET 4 OF 7)

D-37B

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
4/4/2025	
ROUTE: FF	STATE: MO
DISTRICT: SW	SHEET NO.: 29
COUNTY: JASPER	
JOB NO.: J7S3059B	
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)

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
SE CORNER	35+22.73	43.0 RT	Type 2		15 Amps	30 Amps	100 Amps	100 Amps		Amps	Cl. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** COST OF DETECTOR CARDS, IF REQUIRED, INCLUDED IN COST OF RADAR DETECTION SYSTEM.

*** USE D3-1 FOR ONE LINE. USE D3-1B FOR TWO LINE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

S9 S12

R10-3eL

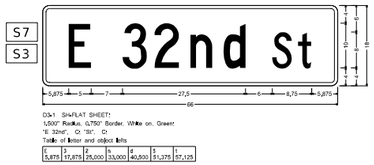
S10 S11

R10-3eR

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			2070 CABINET TYPE *		2070 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	OMNIeX	WAPITI
SE CORNER	35+04.63	44.3 RT				1													1		1	

S7 S3



MMU - CONFLICT MONITOR
NO DIRECT PAY

SIGNAL COMMUNICATION
1 LUMP SUM

RADAR DETECTION SYSTEM, CONTRACTOR FURNISHED
CONTRACTOR INSTALLED
1 LUMP SUM

UNINTERRUPTIBLE POWER SUPPLY (UPS)
1 EACH

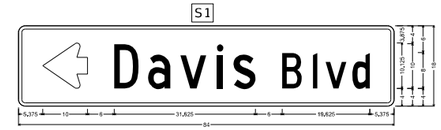
UPS SHALL BE MOUNTED TO POWER SUPPLY ASSEMBLY

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE: APS PUSH BUTTON	INDUCTION LOOP (2): STANDARD	INDUCTION LOOP (2): DELAY/ EXTEND *	INDUCTION LOOP (2): CALL UNIT *	RADAR ZONES*
R1	NORTHBOUND					2
R2	EASTBOUND					3
R3	SOUTHBOUND					2
R4	WESTBOUND					3
23	N/S CROSSING	1				
24	N/S CROSSING	1				
83	E/W CROSSING	1				
84	E/W CROSSING	1				
TOTAL		4				**

S5

S1



SIGNAL SIGNS

	QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
			INCHES	SQ.FT.	SQ.FT.	EA.
		R10-10L	24 X 30	5.0		
		R10-10R	24 X 30	5.0		
S4,S8	2	R3-5L	30 X 36	7.5	15.0	2
		R3-5R	30 X 36	7.5		
		R3-5A	30 X 36	7.5		
		R3-6L	30 X 36	7.5		
		R3-6R	30 X 36	7.5		
		R3-2	24 X 24	4.0		
		R3-1	24 X 24	4.0		
		R3-3	24 X 24	4.0		
S3,S7	2	D3-1 ***	66 X 18	8.3	16.6	2
S1	1	D3-1 ***	84 X 18	10.5	10.5	1
S5	1	D3-1 ***	84 X 18	10.5	10.5	1
		D3-1B ***	VAR. X 18			
S9,S12	2	R10-3eL	9 X 15	0.9	&	&
S10,S11	2	R10-3eR	9 X 15	0.9	&	&
		R10-11A	24 X 30	5.0		
		R10-13	36 X 24	6.0		
S2,S6	2	R10-27A	30 X 36	7.5	15.0	2
		R10-12	30 X 36	7.5		
				SUBTOTAL	67.6	8
				TOTAL	68	8

&: PEDESTRIAN SIGNS AND MOUNTING HARDWARE INCLUDED IN BID ITEM FOR APS

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U												22 23		FLASH SENSE
	L													83 84	STOP TIME
"J"	U														
	L														

RADAR

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = ** (2)

2070 OUTPUT FILE ASSIGNMENTS

FR1		21,22		31	41, 42,43	31	MONITOR
FR2		R Y G	2P DW 2P W	RL YL FYL	R Y G	L	
FR3		11 13 12		71,72	81,82		
FR4		R RL Y YL G L		RL YL FYL	R Y G	8P DW 71 L 8P W	

2P=23,24 8P=83,84

S2 S6

R10-27a

S4 S8

R3-5L

ROUTE FF AT DAVIS BOULEVARD
(SIGNAL SHEET 5 OF 7)

INTERSECTION

D-37C

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	30

COUNTY: JASPER

JOB NO. J7S3059B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

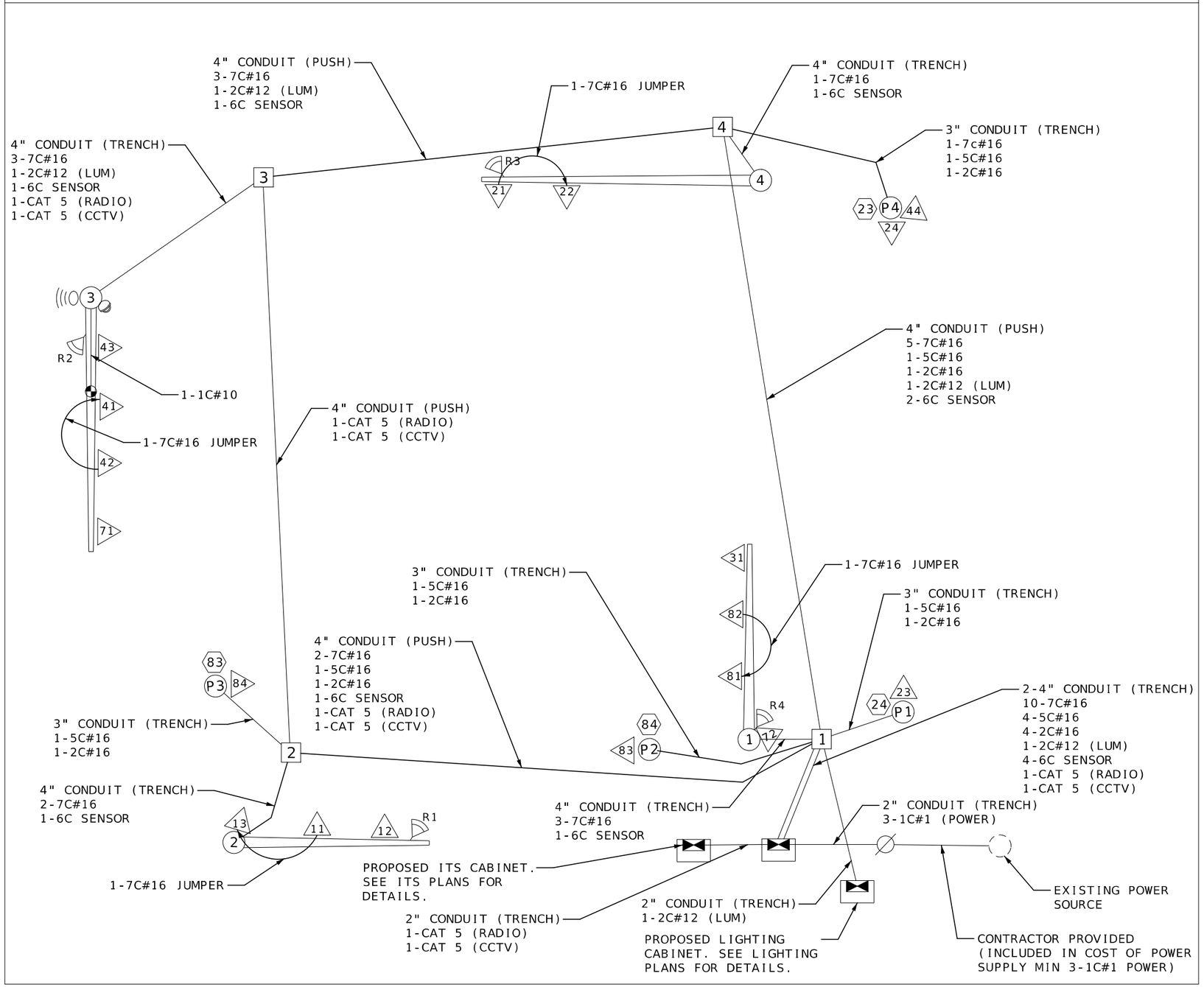
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

EFFECTIVE 12-01-17

WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CONDUIT EXISTING
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	DETECTOR WITH NUMBER
X	PEDESTRIAN SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	RADAR DETECTION
	LUMINAIRE
	RADIO

NOTE: RADAR DEVICE LOCATIONS AND CABLES SHOWN FOR INFORMATIONAL PURPOSES ONLY.
CONTRACTOR SHALL INSTALL ACCORDING TO MANUFACTURER SPECIFICATIONS.

ROUTE FF AT DAVIS BOULEVARD
(SIGNAL SHEET 6 OF 7)

INTERSECTION

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER
PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/25/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	31
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

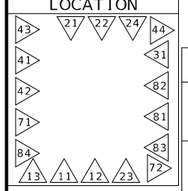
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

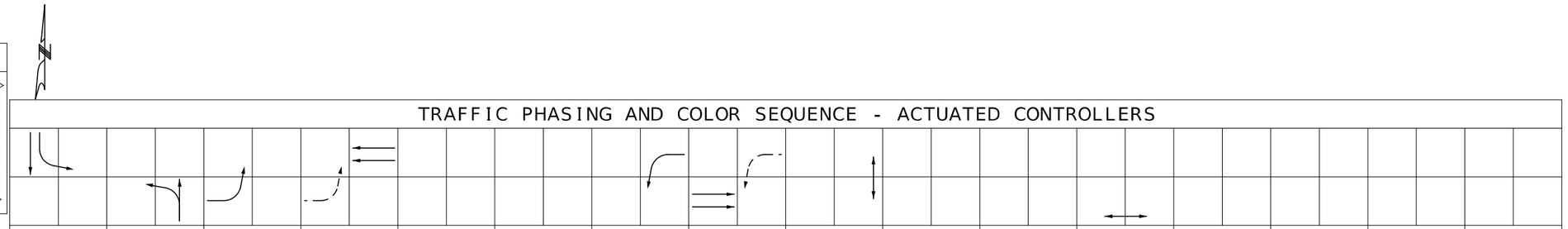
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE 12/01/2017

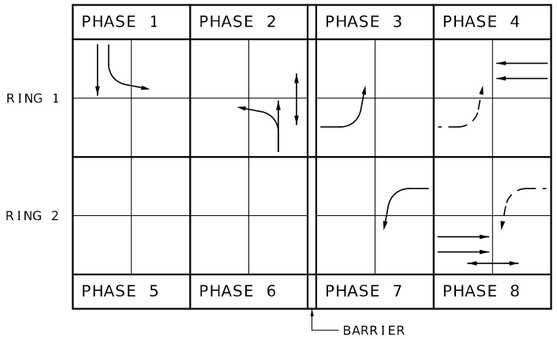
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUALLY CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2 OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø8 OVERLAP	
FACE NUMBERS	11 12 13	21 22	31	31 41 42,43			71 72	71 81 82	23 24			83 84	FACE NUMBERS
SIGNAL INDICATIONS R	RL	R	RL	R			RL	R	DW			DW	R
SIGNAL INDICATIONS Y	YL	Y	YL	Y			YL	Y	FDW			FDW	Y
SIGNAL INDICATIONS FYA				FYL				FYL					FYA
SIGNAL INDICATIONS G	L	G S	L	G			L	G	W			W	G
DETECTOR ASSIGNMENTS	11 12	21	31	31 41 42			71	71 81 82					DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)									2			8	
OVERLAP PARENT PHASES													



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- W — WALK
- DW — DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- LY -YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- RL — RED LEFT ARROW
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYL — FLASHING YELLOW LEFT ARROW

FLASHING OPERATION	
ALL APPROACHES	FR
	FY

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE FF (32ND STREET)
WITH DAVIS BOULEVARD

ROUTE FF AT DAVIS BOULEVARD
(SIGNAL SHEET 7 OF 7)

D-38A

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/25/2025	
ROUTE FF	STATE MO
DISTRICT SW	SHEET NO. 32
COUNTY JASPER	
JOB NO. J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

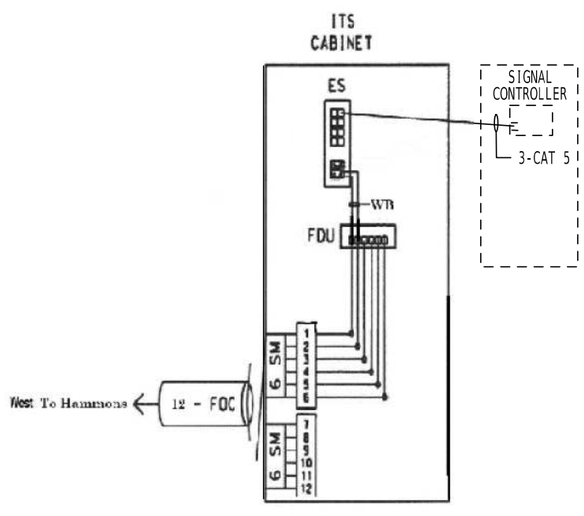
Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

SUMMARY OF COMMUNICATIONS/ITS QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUAN	ROUTE FF/32ND ST.	
				AT HAMMONS BLVD.	AT DAVIS BLVD.
910.37-00	CCTV CAMERA ASSEMBLY, INSTALLED	EA	1		1
910.52-00	CONDUIT, 2 IN., RIGID, IN TRENCH	LF	135		135
910.72-01	CONDUIT, 3 IN., RIGID, PUSHED	LF	80		70
910.82-01	CABLE, 1 AWG, 1 CONDUCTOR, POWER	LF	140		140
910.88-20	PULL BOX, CONCRETE, STANDARD	EA	4		3
910.99-02	MISC. {UBIQUITI NANOBEAM GEN 2 RADIO}	EA	2	1	1
910.99-02 {1}	MISC. {ITS CABINET, TYPE 332}	EA	1		1
910.99-02 {2}	MISC. {INSTALL MODOT FURNISHED ETHERNET SWITCH}	EA	1		1
910.99-02 {3}	MISC. {48 PORT FIBER DISTRIBUTION UNIT}	EA	1		1
910.99-03	MISC. {CABLE, RADIO, ETHERNET CAT 5}	LF	620	320	300
910.99-03{1}	MISC. {CABLE, CCTV, ETHERNET CAT 5}	LF	300		300

SUMMARY OF COMMUNICATIONS/ITS PULLBOX LOCATIONS

ID	STA.	OFFSET
21	34+86.96	42.61 RT.
22	34+09.76	49.38 RT.
23	33+43.62	38.57 RT.
24	32+16.39	36.67 RT.



FIBER LAYOUT SHOWN FOR ULTIMATE CONFIGURATION.
CONSTRACTOR SHALL PLUG CABLE FROM PROPOSED RADIO
TO PROPOSED ITS SWITCH (CONTRACTOR PROVIDED).

SUMMARY OF ITS QUANTITIES
COMMUNICATIONS/ITS SHEET 1 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/25/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 33
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

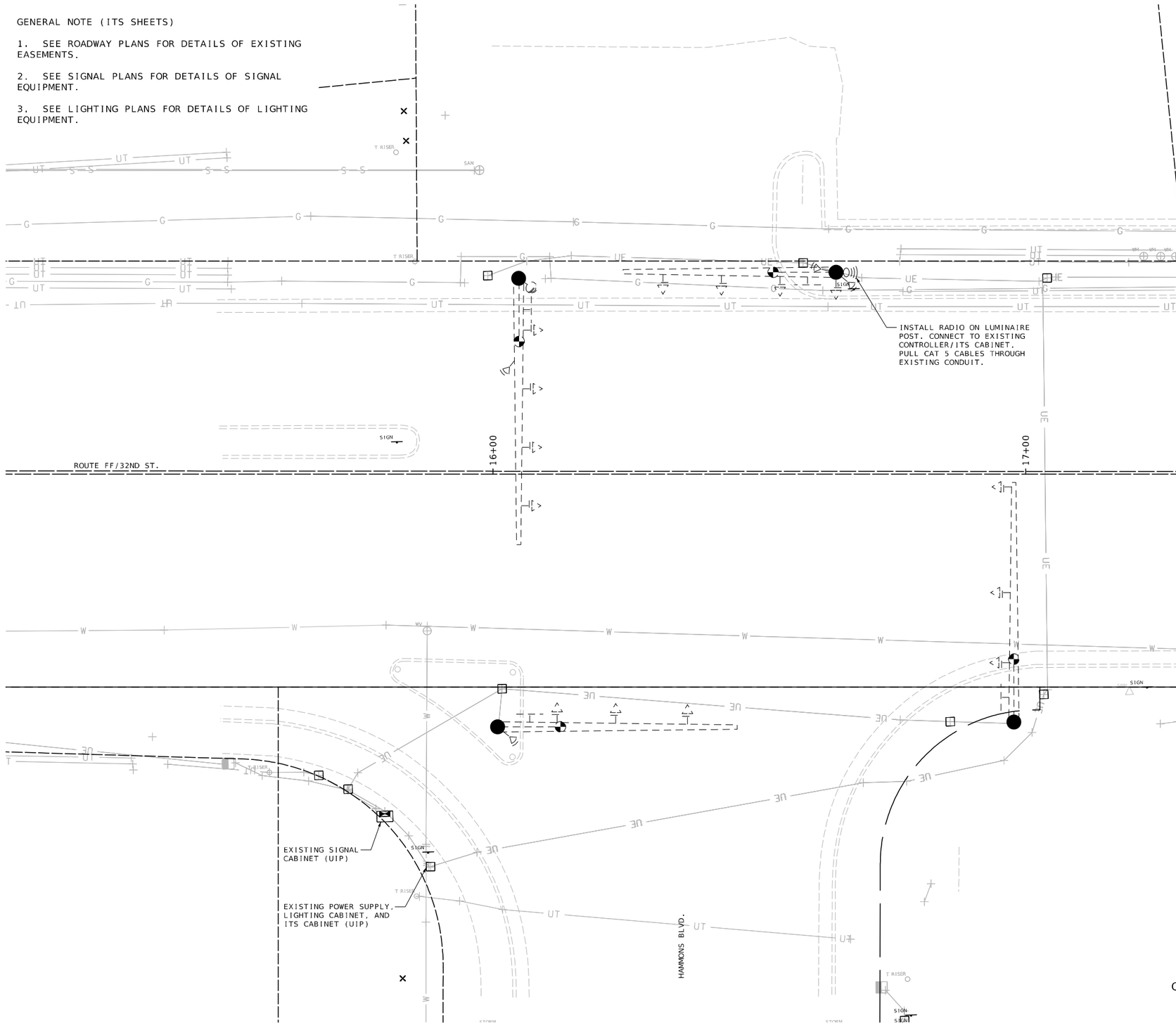
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE (ITS SHEETS)

1. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

2. SEE SIGNAL PLANS FOR DETAILS OF SIGNAL EQUIPMENT.

3. SEE LIGHTING PLANS FOR DETAILS OF LIGHTING EQUIPMENT.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- RADAR DETECTION
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2 (CONCRETE)
- ITS ITS PULL BOX TYPE 5 (CONCRETE)
- CONCRETE PULL BOX,STANDARD
- CONCRETE PULL BOX, DOUBLE
- 30 X 6 LOOP DETECTOR
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE
- LED-A LUMINAIRE

SCALE

0 10 20 30

ROUTE FF AT HAMMONS BLVD
COMMUNICATIONS/ITS SHEET 2 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE FF	STATE MO
DISTRICT SW	SHEET NO. 34
COUNTY JASPER	
JOB NO. J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

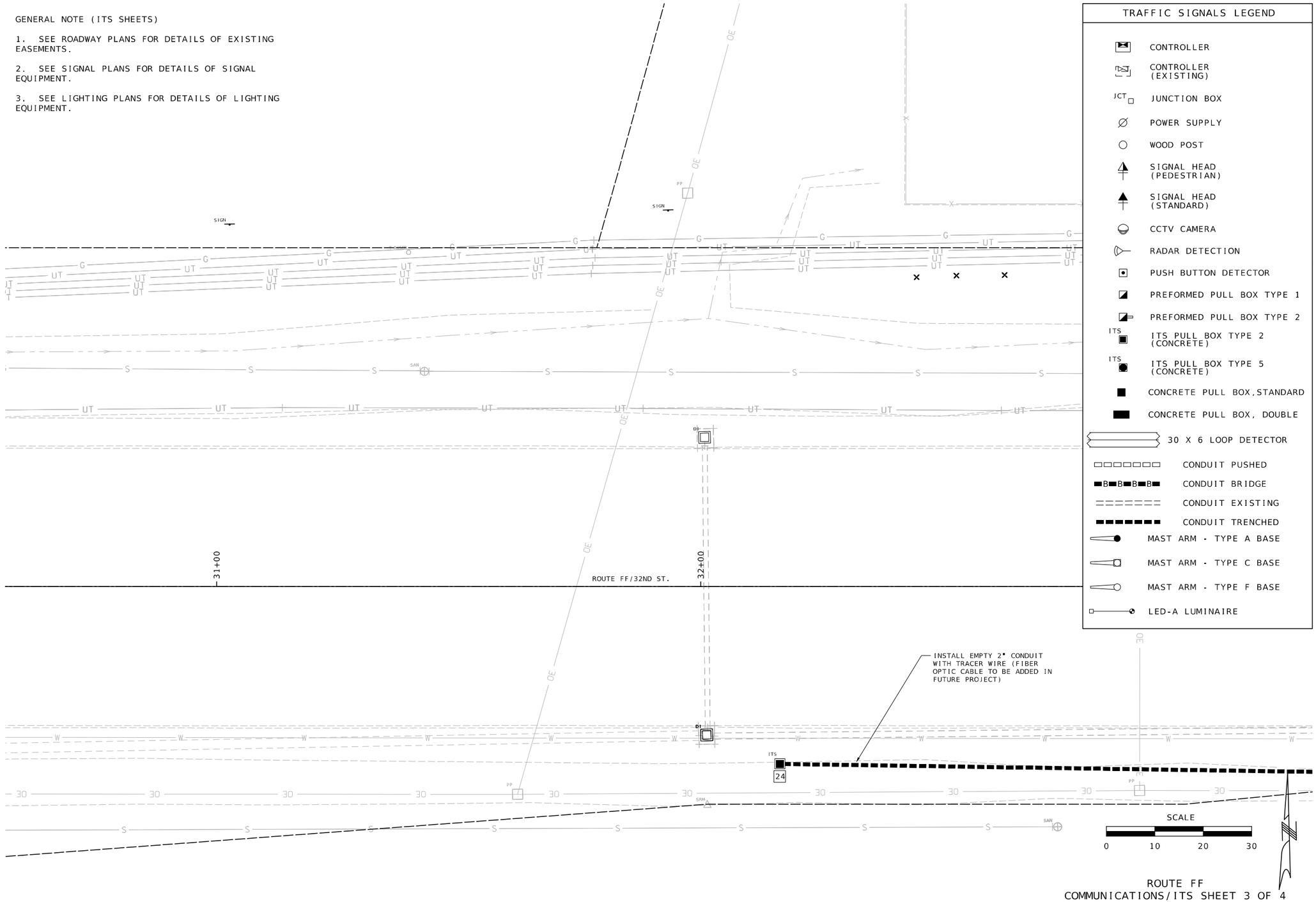
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

GENERAL NOTE (ITS SHEETS)

1. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

2. SEE SIGNAL PLANS FOR DETAILS OF SIGNAL EQUIPMENT.

3. SEE LIGHTING PLANS FOR DETAILS OF LIGHTING EQUIPMENT.



TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JCT JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- RADAR DETECTION
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- ITS ITS PULL BOX TYPE 2 (CONCRETE)
- ITS ITS PULL BOX TYPE 5 (CONCRETE)
- CONCRETE PULL BOX,STANDARD
- CONCRETE PULL BOX, DOUBLE
- 30 X 6 LOOP DETECTOR
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE
- LED-A LUMINAIRE

ROUTE FF
COMMUNICATIONS/ITS SHEET 3 OF 4

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE FF	STATE MO
DISTRICT SW	SHEET NO. 35
COUNTY JASPER	
JOB NO. J7S3059B	
CONTRACT ID. .	
PROJECT NO. .	
BRIDGE NO. .	

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

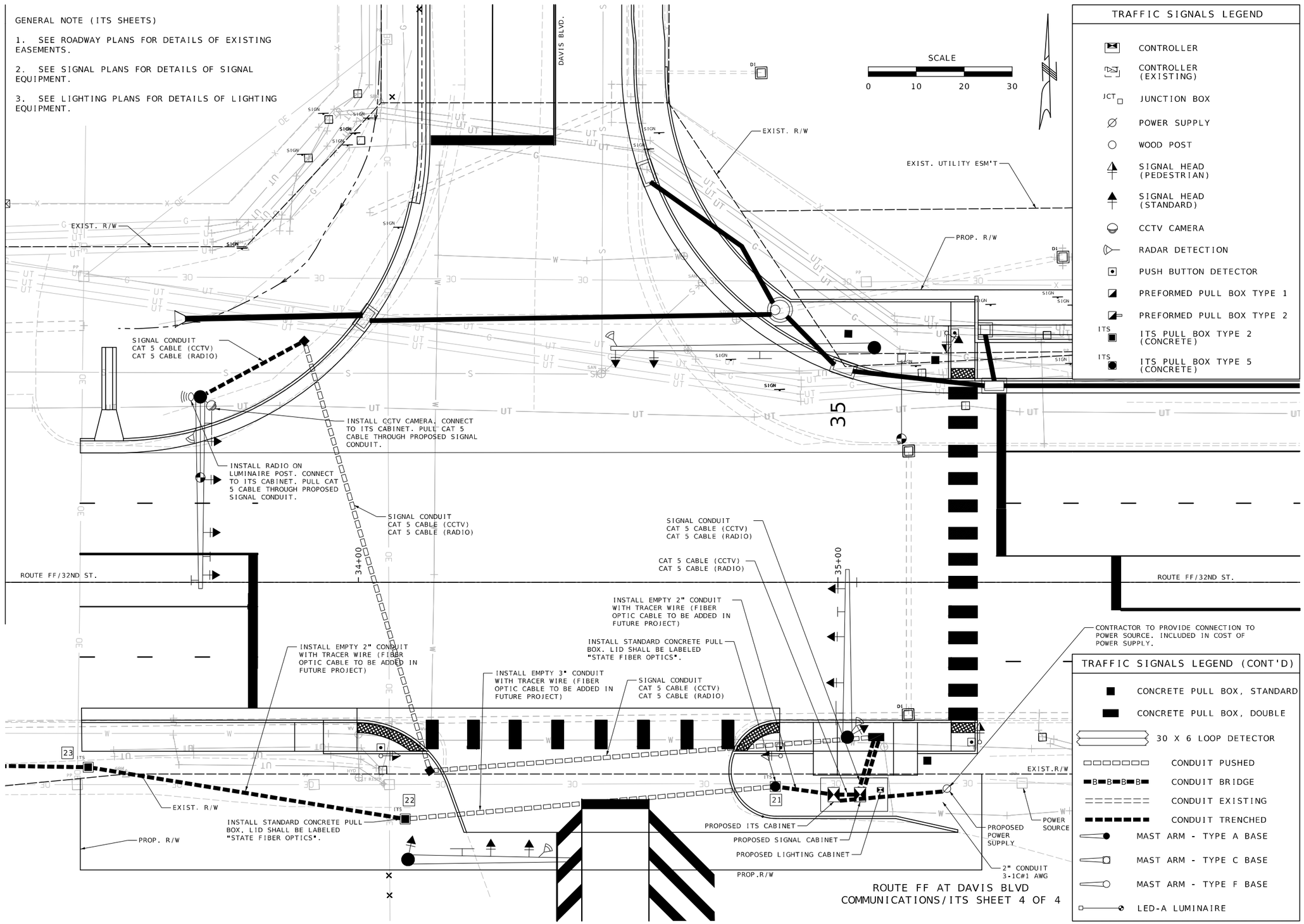
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

GENERAL NOTE (ITS SHEETS)

1. SEE ROADWAY PLANS FOR DETAILS OF EXISTING EASEMENTS.

2. SEE SIGNAL PLANS FOR DETAILS OF SIGNAL EQUIPMENT.

3. SEE LIGHTING PLANS FOR DETAILS OF LIGHTING EQUIPMENT.



ROUTE FF AT DAVIS BLVD
COMMUNICATIONS/ITS SHEET 4 OF 4

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- CONTROLLER (EXISTING)
- JUNCTION BOX
- POWER SUPPLY
- WOOD POST
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- CCTV CAMERA
- RADAR DETECTION
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- ITS PULL BOX TYPE 2 (CONCRETE)
- ITS PULL BOX TYPE 5 (CONCRETE)

TRAFFIC SIGNALS LEGEND (CONT'D)

- CONCRETE PULL BOX, STANDARD
- CONCRETE PULL BOX, DOUBLE
- 30 X 6 LOOP DETECTOR
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- MAST ARM - TYPE A BASE
- MAST ARM - TYPE C BASE
- MAST ARM - TYPE F BASE
- LED-A LUMINAIRE

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/25/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	36
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

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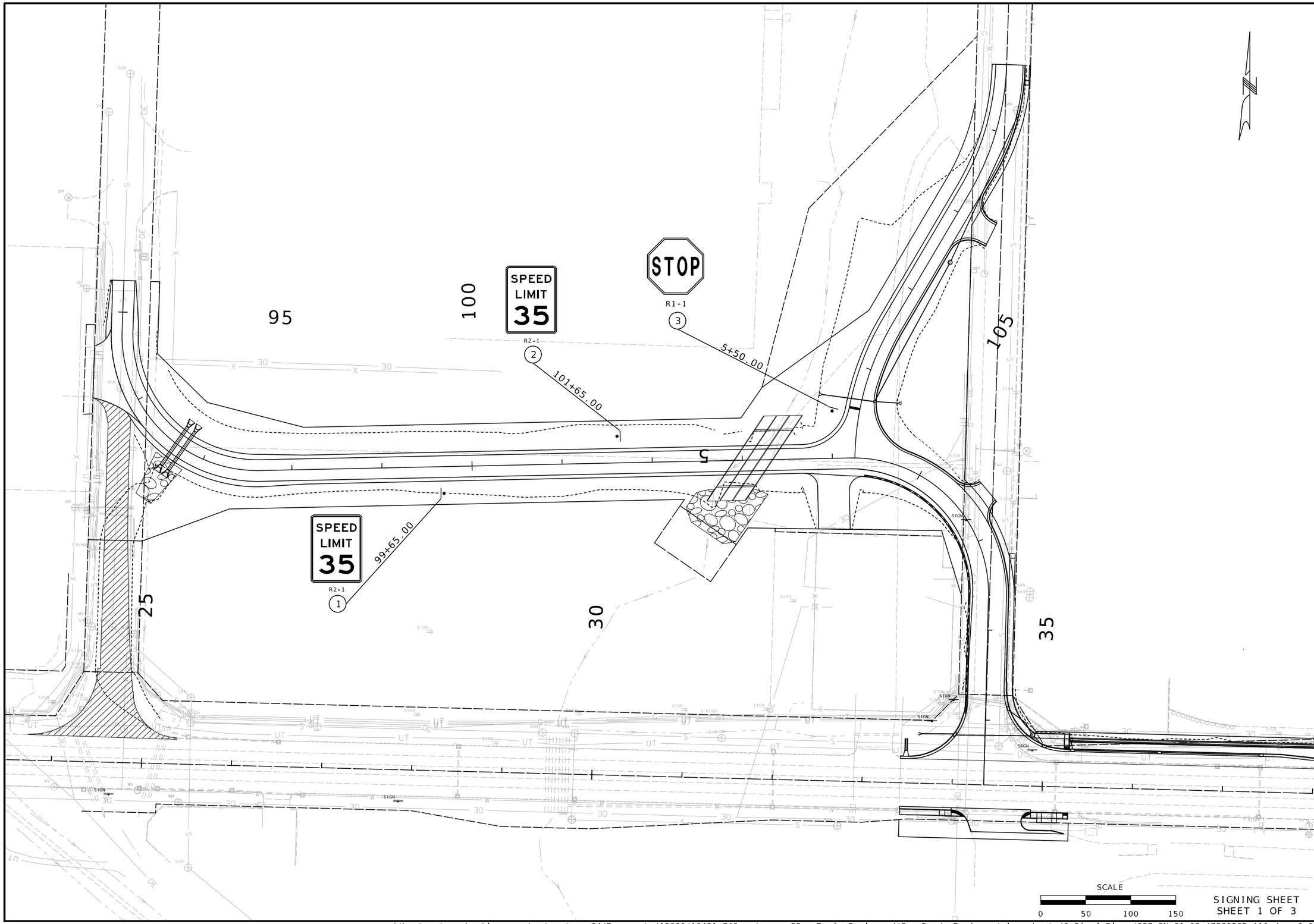


SIGNING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/24/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	37
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

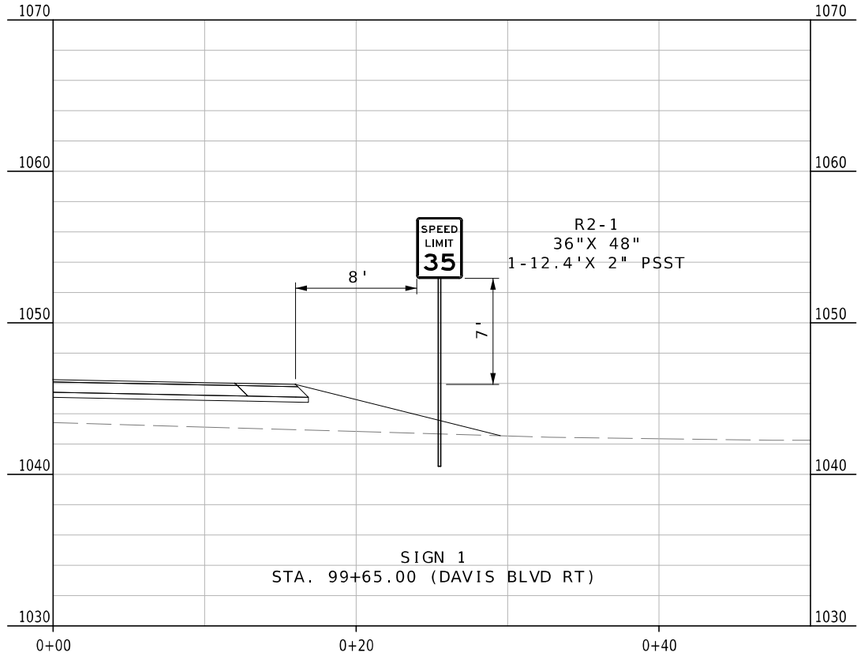
DATE	DESCRIPTION

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

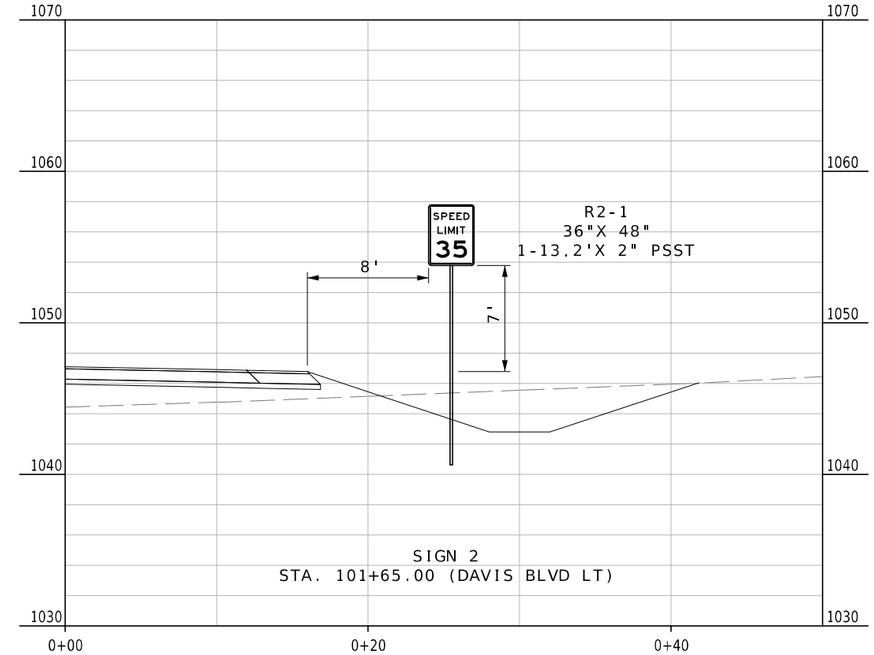
Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

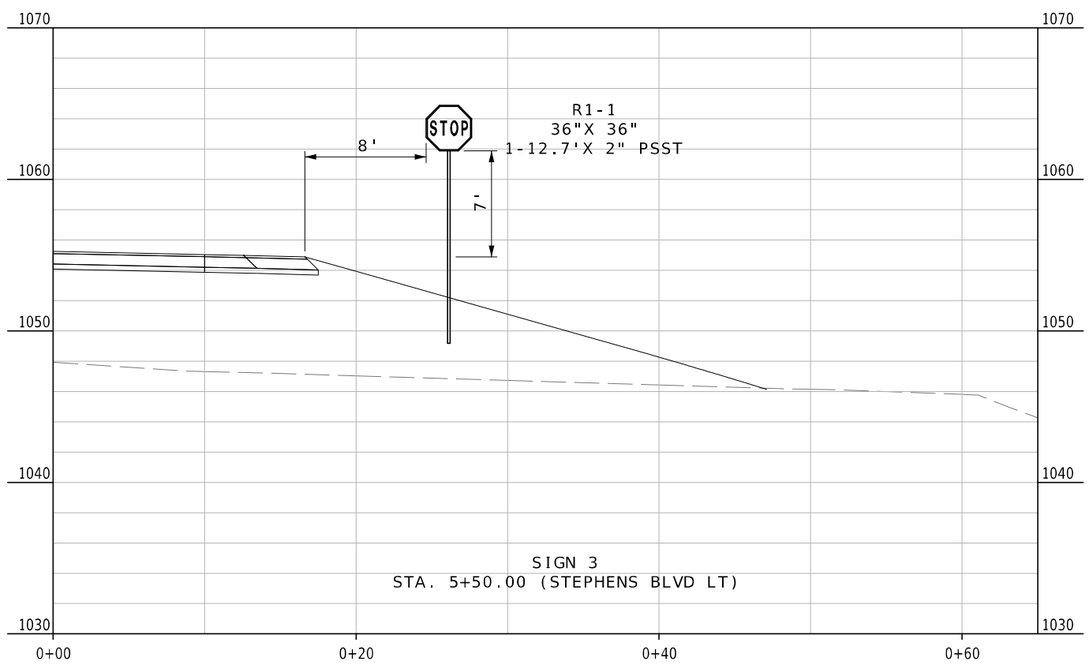
pw://bartwest-pw.bentley.com:bartwest-pw-04/Documents/19000/19421.G40 - Jasper FF - Davis Boulevard/OpenRoads Designer/plan_sheets/3_Final Plans/037_SN_01_02_J7S3059B_I10.dgn 3:04:27 PM 3/24/2025



SIGN 1
STA. 99+65.00 (DAVIS BLVD RT)



SIGN 2
STA. 101+65.00 (DAVIS BLVD LT)



SIGN 3
STA. 5+50.00 (STEPHENS BLVD LT)

NOTES:
1) ALL SIGN CROSS SECTION ARE CUT IN THE DIRECTION OF TRAVEL.

SIGNING SHEET
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	38

COUNTY: JASPER
JOB NO.: J7S3059B
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)

Bartlett & West
601 MONROE ST, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM

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

EFFECTIVE: 07-01-2024

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						CONCRETE FOOTINGS EMBEDDED	STRUCTURAL STEEL POSTS*						PIPE POSTS*					BACKING BARS**				U-CHANNEL POST	PERFORATED SQUARE STEEL TUBE													REMARKS AND OTHER REQUIRED ITEMS
																							2-INCH POST						2.5-INCH POST						BREAK-AWAY	
																									TOTAL	ANCHORS					TOTAL	2.25"	ANCHORS				
SIGN NO.	SIGN SIZE	STATION OR LOG MILE	HORIZ CLEAR IF NOT STD	LOCATION	SIGN DTL SHT NO.	ITEM NO. 9031010 CY	POST DES NO.	POST NO.1 LF	POST NO.2 LF	POST NO.3 LF	LBS PER FT	TOTAL ITEM NO. 9031210 LBS	PIPE SIZE IN	POST NO.1 LF	POST NO.2 LF	LBS PER FT	TOTAL ITEM NO. 9031220 LBS	2" X 3/8" BARS AT 2.55 LBS/FT NO. EACH	LGTH IN.	TOTAL LF	TOTAL LBS	ITEM NO. 9031250A LF	POST NO.1 LF	POST NO.2 LF	ITEM NO. 9031270A LF	DRIVEN 12 GA. ITEM NO. 9031271A EACH	DRIVEN 7 GA. ITEM NO. 9031273A EACH	CONCRETE 7 GA. ITEM NO. 9031274 EACH	POST NO.1 LF	POST NO.2 LF	ITEM NO. 9031280 LF	INSERT (6 FT) ITEM NO. 9031272A EACH	DRIVEN 7 GA. ITEM NO. 9031281A EACH	CONCRETE 7 GA. ITEM NO. 9031285 EACH	ASSEMBLY ITEM NO. 9031241 EACH	
1	36"X 48"	99+65.00	STD	RT																			15		15	1											
2	36"X 48"	101+65.00	STD	LT																			15		15	1											
3	36"X 36"	5+50.00	STD	LT																			15		15	1											
				SUBTOTAL																					45	3											
				TOTAL																	**				45	3											

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

NOM.SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4'- 3½"	12"	4~6"	0.13
4	10.79	0.90	5'- 3½"	18"	5~6"	0.36

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

POST DES. NO.	NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	LEVEL GROUND DEPTH	LEVEL GROUND C.Y.	6:1 GRADE DEPTH	6:1 GRADE C.Y.	4:1 GRADE DEPTH	4:1 GRADE C.Y.	3:1 OR 2:1 GRADE DEPTH	3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3'-0"	15"	3'-0"	0.14	3'-2"	0.15	3'-3"	0.16	3'-6"	0.17
2	W6	15.0	1.25	4'-0"	24"	4'-0"	0.47	4'-2"	0.50	4'-3"	0.51	4'-6"	0.54
3	W8	18.0	1.50	4'-6"	28"	4'-6"	0.71	4'-8"	0.73	4'-9"	0.74	5'-0"	0.78
4	W10	22.0	1.83	5'-0"	36"	5'-0"	1.31	5'-2"	1.36	5'-3"	1.39	5'-6"	1.45
5	W10	26.0	2.17	5'-0"	36"	5'-0"	1.31	5'-3"	1.37	5'-5"	1.43	5'-9"	1.52
6	W12	35.0	2.92	5'-6"	36"	5'-6"	1.44	5'-9"	1.52	5'-11"	1.56	6'-3"	1.65

D-29

STANDARD SIGN ASSEMBLIES

SIGN NO.	STATION OR LOG MILE	LOCATION	SHR2L-1 R1-1 36"X 36"	SHR2L-1 R2-1 36"X 48"
1	99+65.00	RT		1
2	101+65.00	LT		1
3	5+50.00	LT	1	
		TOTALS	1	2

SIGN SUMMARY

EFFECTIVE: 10-01-2016

STANDARD OR SPECIAL SIGN DESIGNATION	SIGN DTL. SHT. NO.	NO. EACH	SIGN SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF* ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF* ITEM NO. 9035071A
R1-1 (STOP)		1	36"X 36"	9.0			
R2-1 (SPEED LIMIT)		2	36"X 48"	24.0			
			TOTALS	33.0			

*ORANGE, YELLOW AND YELLOW-GREEN

SIGNING SHEET
SHEET 3 OF 3

D-30

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

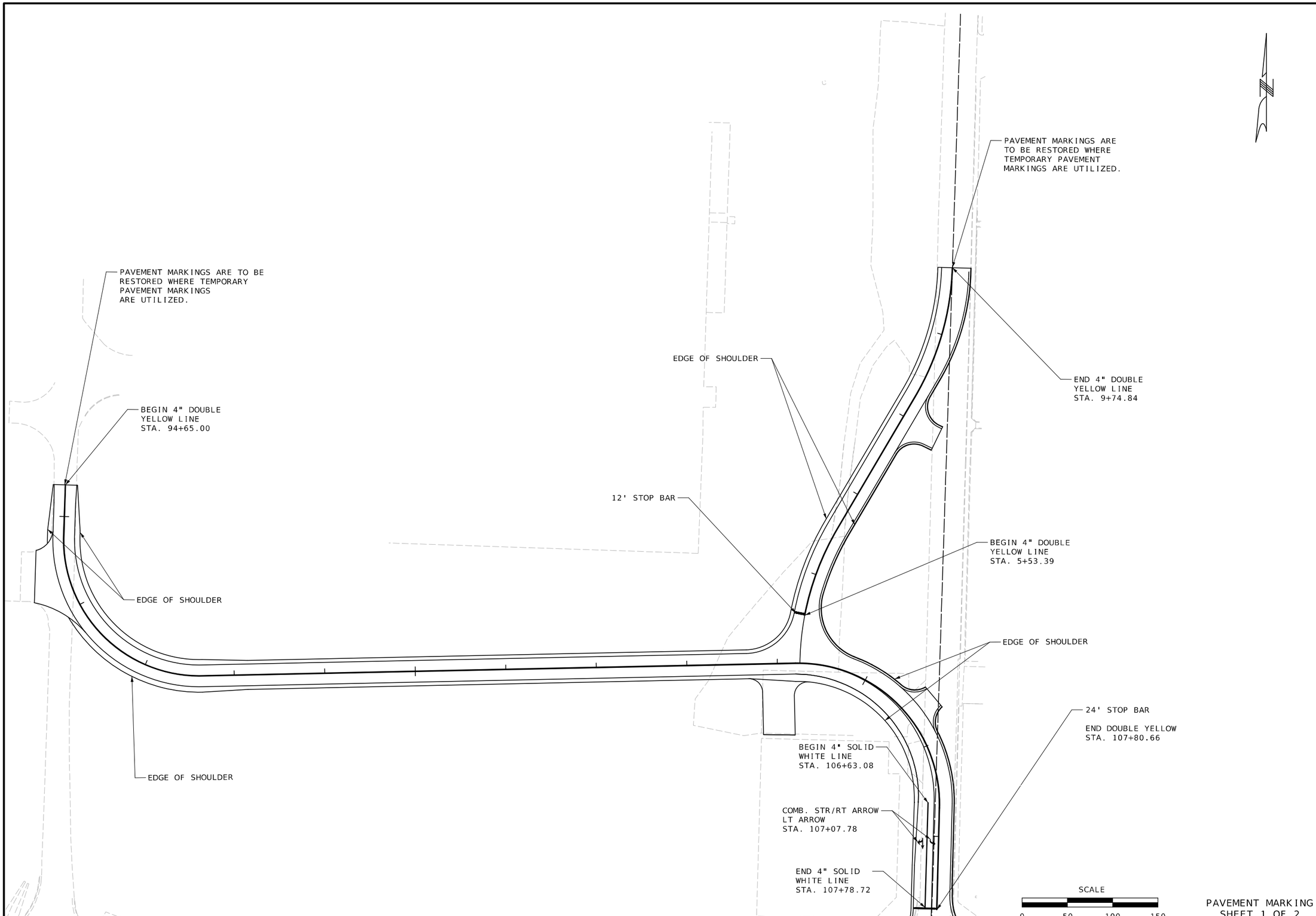
DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT SW | SHEET NO. 39
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM



PAVEMENT MARKING
SHEET 1 OF 2

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/28/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	40
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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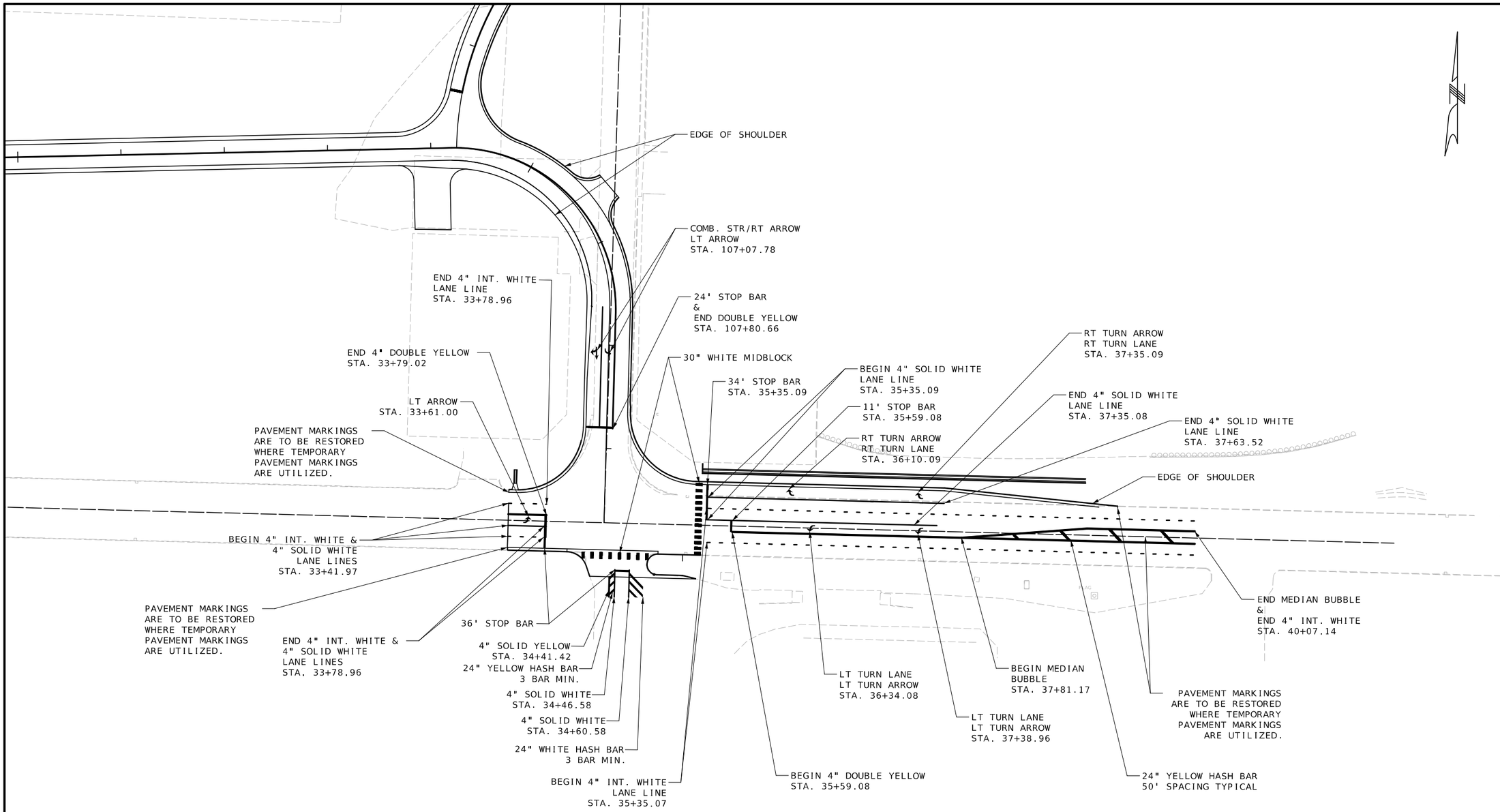

*LANE MUST BE STR/LT
DURING PHASE ONE OF TRAFFIC CONTROL
TO ACCOMMODATE FLOW OF TRAFFIC
THEN RETURNED TO LEFT TURN LANE ONLY

SCALE
0 50 100 150

PAVEMENT MARKING
SHEET 2 OF 2

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/24/2025
ROUTE	FF
STATE	MO
DISTRICT	SW
SHEET NO.	41
COUNTY	JASPER
JOB NO.	J7S3059B
CONTRACT ID.	.
PROJECT NO.	.
BRIDGE NO.	.

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

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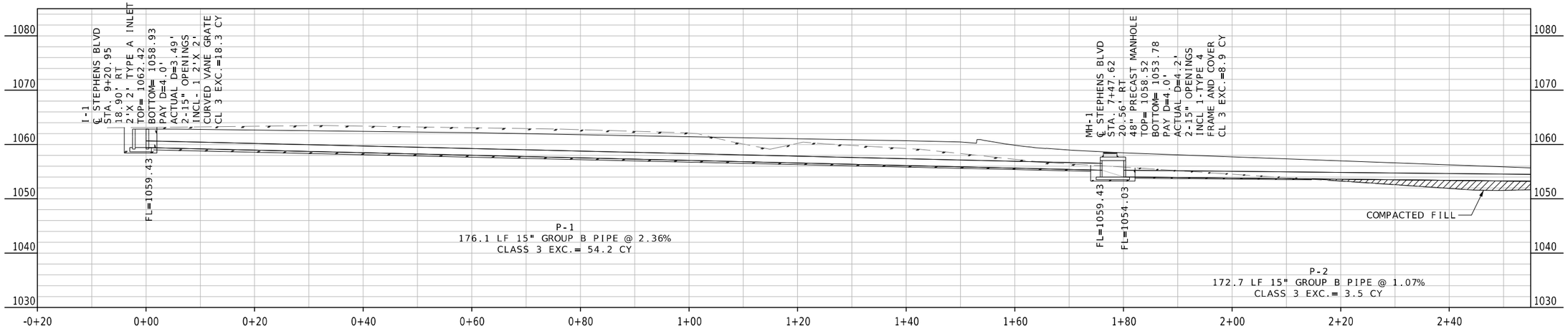

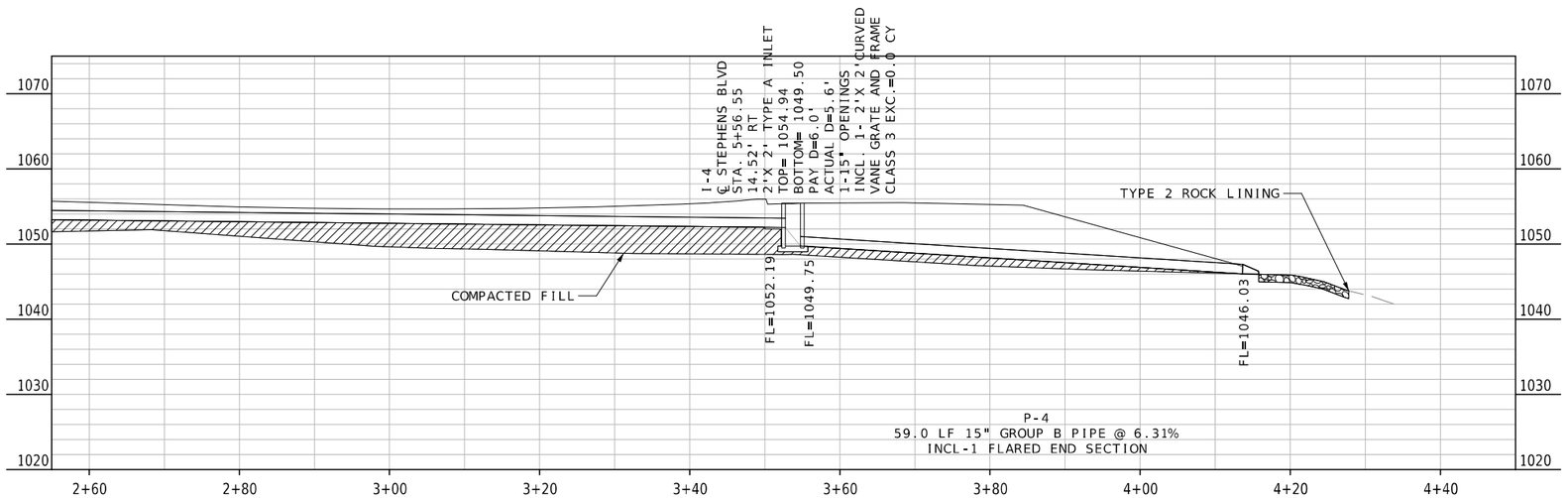

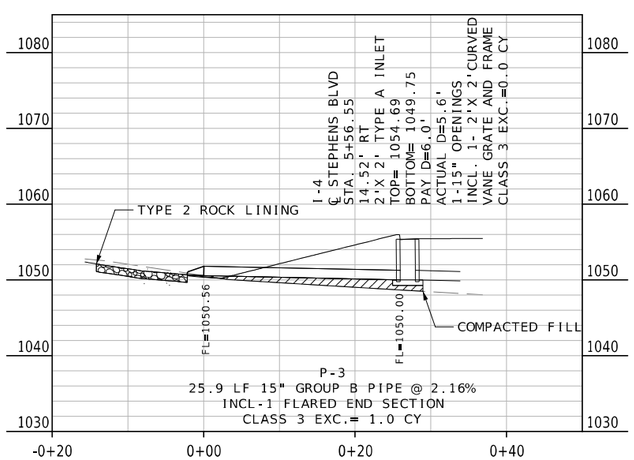

CULVERT SECTION SHEET
SHEET 1 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/28/2025

ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	42

COUNTY
JASPER

JOB NO.
J7S3059B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

Bartlett & West
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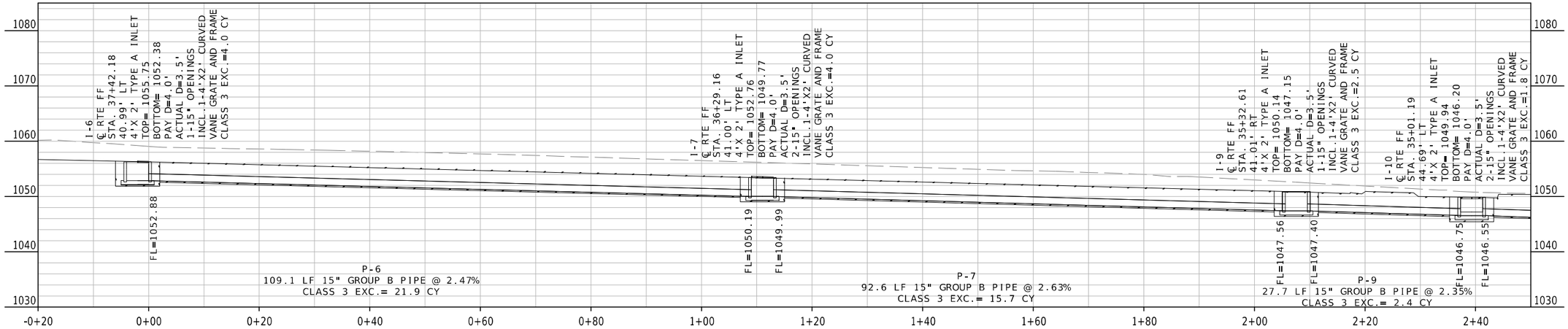
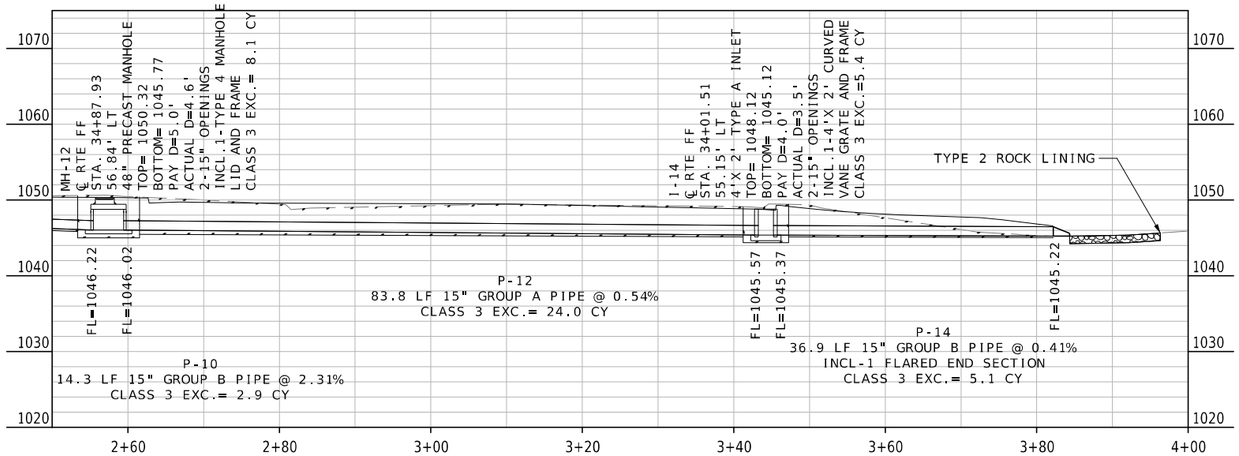
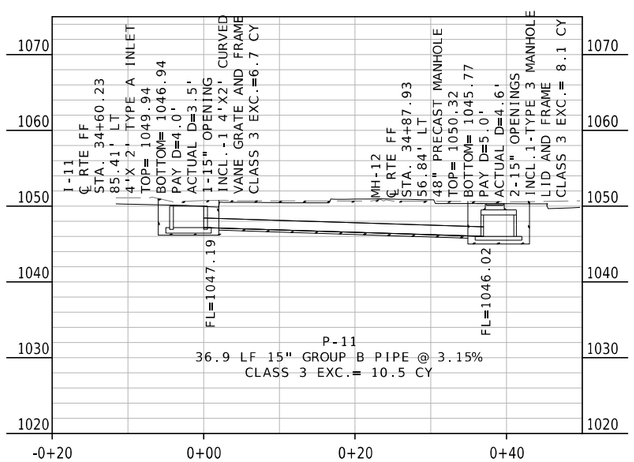
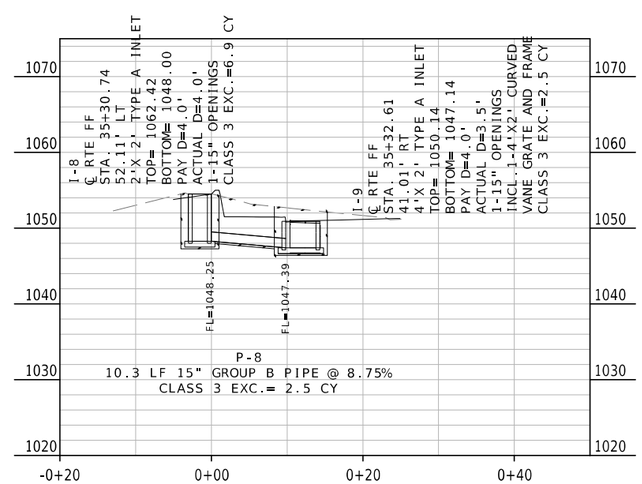
WWW.BARTLETTWEST.COM









CULVERT SECTION SHEET
SHEET 2 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

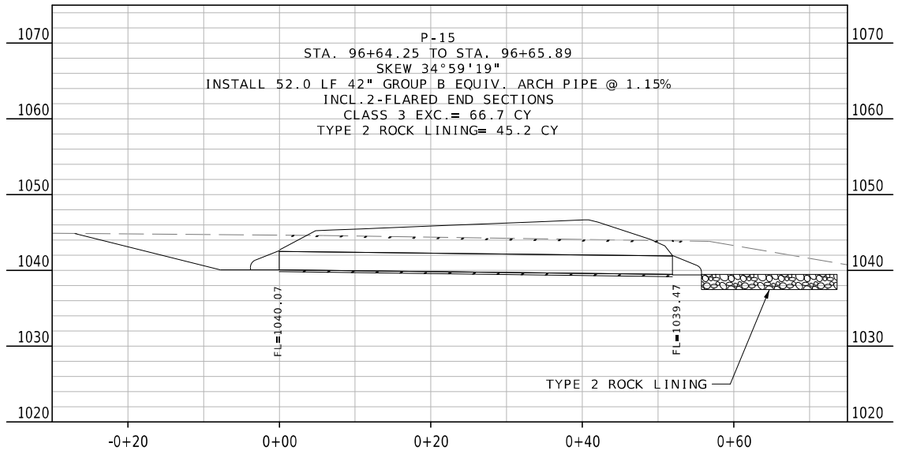
DATE PREPARED	
3/24/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	43
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

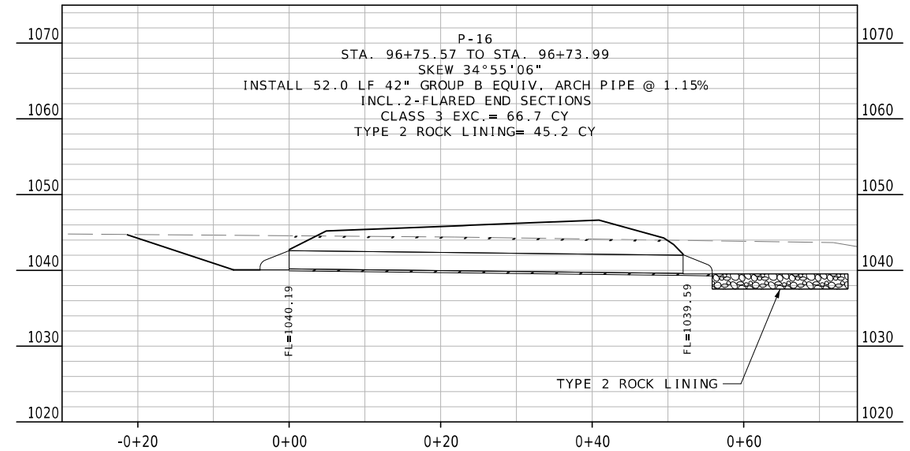
DATE	DESCRIPTION

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

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

Bartlett & West
601 MONROE ST. SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTLETTWEST.COM





CULVERT SECTION SHEET
SHEET 3 OF 3

STATE OF MISSOURI
MICHAEL WAYNE DUSENBERG
NUMBER E-26546
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	
2/28/2025	
ROUTE	STATE
FF	MO
DISTRICT	SHEET NO.
SW	44
COUNTY	
JASPER	
JOB NO.	
J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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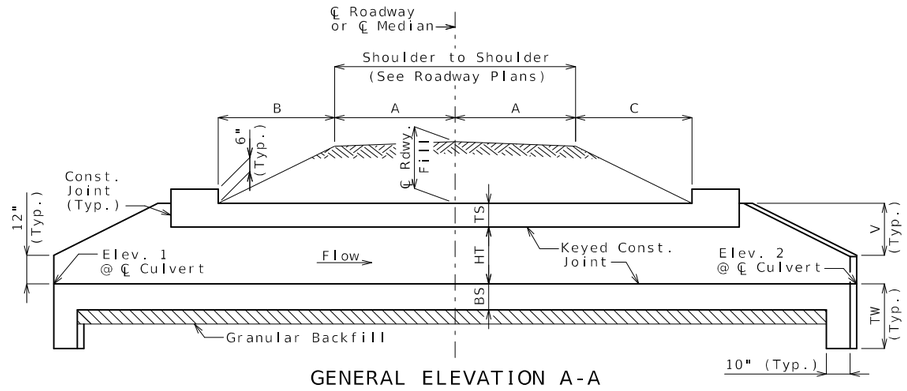
WWW.BARTLETTWEST.COM

3(11'x 7') CONCRETE BOX CULVERT

SEC/SUR 18 TWP 27N RGE 32W

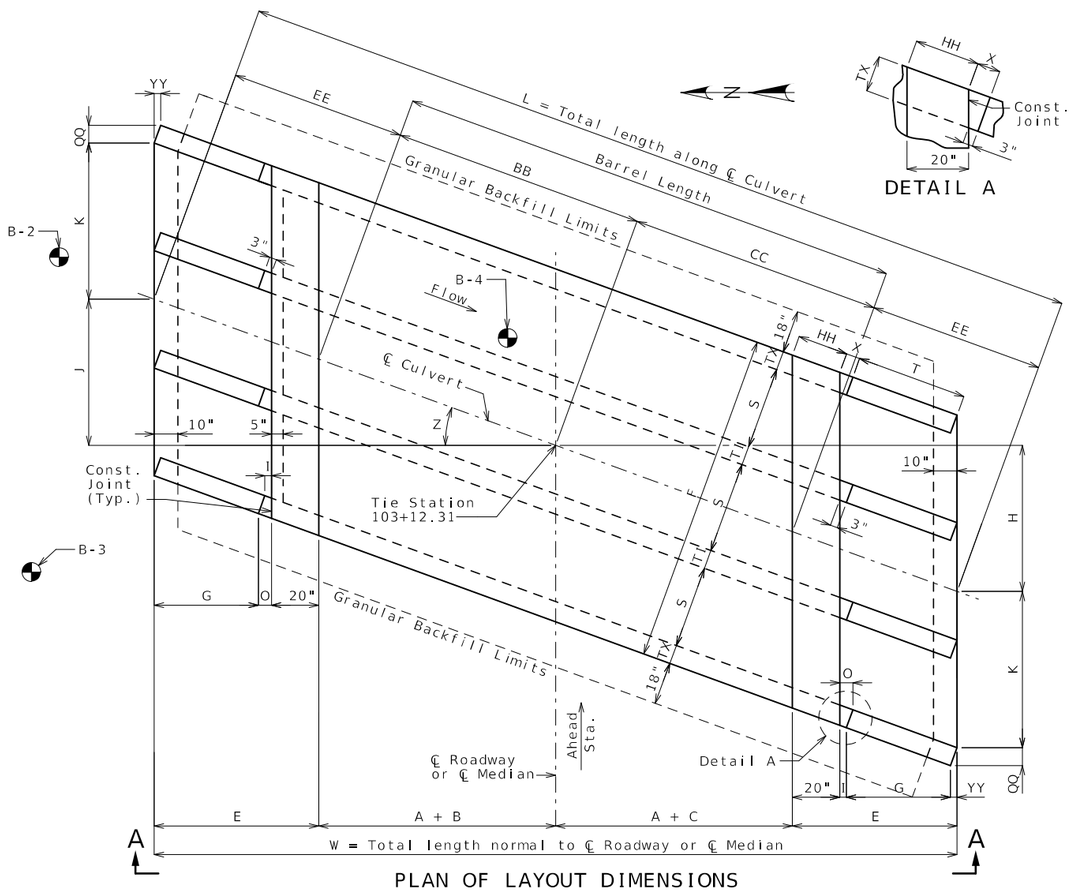


GENERAL ELEVATION A-A

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.



PLAN OF LAYOUT DIMENSIONS

DETAIL A

Layout Dimensions								
Var.	Equation	Dim.	Var.	Equation	Dim.	Var.	Equation	Dim.
S	- - -	11'-0"	F	3S + 2TX + 2TI	35'-8"	W	2A + B + C + 2E	93'-2 1/8"
HT	- - -	7'-0"	G	2V	14'-4"	X	3" + TX(tan Z)	8 5/8"
TS	- - -	1'-2"	H	(A + C + E)(tan Z)	31'-2 5/8"	Z	Skew Angle	35°
BS	- - -	9"	I	3"(cos Z)	2 1/2"	BB	(A + B)(sec Z)	39'-0 3/4"
TX	- - -	8"	J	(A + B + E)(tan Z)	34'-0 1/4"	CC	(A + C)(sec Z)	34'-2 1/8"
TI	- - -	8"	K	(3S/2 + TI)(sec Z)	20'-11 1/2"	EE	E(sec Z)	20'-3"
A	- - -	16'-0"	L	2EE + BB + CC	113'-9"	HH	20"(sec Z)	2'-0 3/8"
B	- - -	16'-0"	O	I + YY	7"	QQ	TX(cos Z)	6 1/2"
C	- - -	12'-0"	T	G(sec Z)	17'-6"	YY	TX(sin Z)	4 5/8"
E	G + O + 20"	16'-7"	V	HT + TS - 12"	7'-2"	TW	Max{3'-4" or (BS + 12")}	3'-4"*

Hydrologic Data
Drainage Area = 0.48 mi^2
Design Flood Frequency = 50 years
Design Flood Discharge = 940 cfs
Design Flood (D.F.) Elevation = 1045.6
Base Flood (100-year)
Base Flood Elevation = 1046.1
Base Flood Discharge = 1110 cfs
Estimated Backwater = 0.2 ft
Outlet Velocity = 7.4 ft/s
Roadway Overtopping
Overtopping Flood Discharge = N/A
Overtopping Flood Frequency = >100 years
100-yr. Flood Elevation = 1046.1

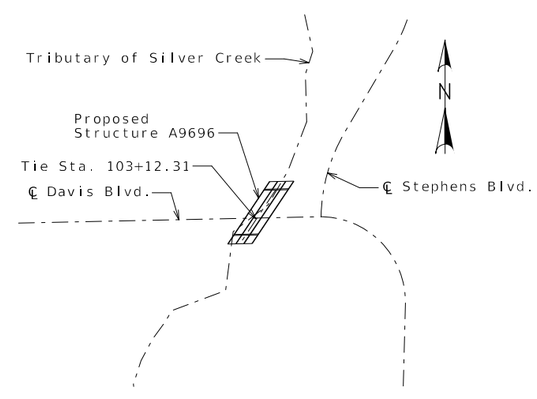
Elevations
Upstream (Elev. 1) = 1039.2
Downstream (Elev. 2) = 1038.7
Pr. Gr. at Tie Sta. = 1050.0

Fill Heights
℄ Rdwy at ℄ Culvert = 2.9 ft
Design (All units) = 2 ft - 4 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	370	
Class 4 Excavation in Rock	cu. yard	305	
Dewatering	lump sum	1	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	311.6	
Reinforcing Steel (Culverts-Bridge)	pound	47,730	

* Extend toe wall a minimum of the full height of 3'-4" or 18" into competent shale, measured from the bottom of the bottom slab.



LOCATION SKETCH

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, 703.82 703.86, 703.87

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)

C.P. #100 - Elev. 1058.077, 60D Nail previously set by MoDOT
Sta. 45+99.34, Offset 45.00' Route FF
N: 323433.893, E: 2799908.637

C.P. #51 - Elev. 1056.776, 5/8" I.B. with aluminum cap
Sta. 12+95.44, Offset 47.56' Route FF
N: 323522.082, E: 2796605.907

CULVERT-BRIDGE: DAVIS BLVD. OVER TRIBUTARY OF SILVER CREEK

DAVIS BLVD. FROM ROUTE FF TO 20TH ST.
ABOUT 0.1 MILES NORTH OF ROUTE FF
TIE STA. 103+12.31

STATE OF MISSOURI
DAVID ANDREW STRAATMANN
NUMBER PE-2004000848
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT BR | SHEET NO. 1
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9696

DESCRIPTION	DATE

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

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

Bartlett & West
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PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

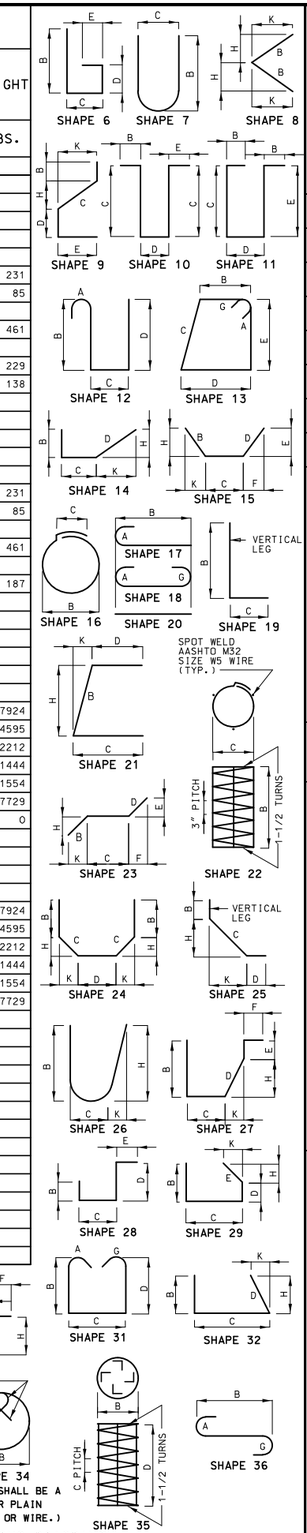
Detailed Feb. 2025
Checked Feb. 2025

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

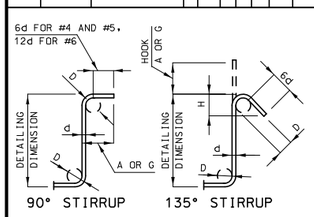
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	K FT. IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
			TOP SLAB																
105	5	A1	BOTTOM		20					35 4.000							35 4	35 4	3870
90	5	A3	BOTTOM		20			V	2	34 1.000							34 1	34 1	
			INCREMENT =							2 8.000							2 8	2 8	1725
			8.625 INCH																
28	4	F1	TOP		20					39 4.000							39 4	39 4	736
62	4	F2	BOTTOM		20					39 4.000							39 4	39 4	1629
128	5	H1	TOP		20					15 9.000							15 9	15 9	2103
152	5	H2	TOP		20					5 5.000							5 5	5 5	859
296	5	J3	CORNER		19	S				2 6.000	4 8.000						7 2	7 1	2187
			BOTT. SLAB																
142	5	A2	BOTTOM		20					35 5.000							35 5	35 5	5245
74	5	A4	BOTTOM		20			V	2	34 10.000							34 10	34 10	
			INCREMENT =							2 9.000							2 9	2 9	1450
			10.750 INCH																
82	4	F3	TOP/BOTT.		20					39 4.000							39 4	39 4	2155
82	4	F4	TOP/BOTT.		20					19 10.000							19 10	19 10	1086
432	6	H3	BOTTOM		20					8 5.000							8 5	8 5	5461
290	6	J4	CORNER		19	S				7 5.000	4 3.000						11 8	11 6	5009
120	6	J5	CORNER		19	S		V	4	8 7.000	4 3.000						12 10	12 8	
			INCREMENT =							2 7.000	4 3.000						6 10	6 8	1742
			2.500 INCH																
			WALLS/WINGS																
332	5	B1	INT. WALLS		10	S					12.000	8 6.000					10 6	10 4	3578
166	5	B2	EXT. WALLS		10	S					12.000	8 6.000					10 6	10 4	1789
32	5	E1	TOEWALL		20					4 1.000							4 1	4 1	136
68	4	F5	WALLS		20					39 0.000							39 0	39 0	1772
60	4	F6	WINGS		20			V	12	19 3.000							19 3	19 3	
			INCREMENT =							8 0.000							8 0	8 0	546
			33.750 INCH																
136	5	G1	INT. WINGS		20			V	8	8 4.000							8 4	8 4	
			INCREMENT =							2 0.000							2 0	2 0	733
			4.750 INCH																
68	5	G2	EXT. WINGS		20			V	4	8 4.000							8 4	8 4	
			INCREMENT =							2 0.000							2 0	2 0	366
			4.750 INCH																
32	7	J1	WINGS		15					18 6.875	3 6.000				7 1.500	17 1.875	22 1	22 1	1444

NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	K FT. IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
			UPSTREAM																
			HEADWALL																
2	8	D1	HEADWALL		20					43 2.000							43 2	43 2	231
4	8	D2	HEADWALL		20					8 0.000							8 0	8 0	85
4	8	H4	HEADWALL		20					43 2.000							43 2	43 2	461
44	5	R1	HEADWALL		27	S				17.000	12.750	6.000	2 2.500		4.250	4.250	5 2	5 0	229
44	5	R2	HEADWALL		10	S					10.500	17.000					3 2	3 0	138
			DOWNSTREAM																
			HEADWALL																
2	8	D1	HEADWALL		20					43 2.000							43 2	43 2	231
4	8	D2	HEADWALL		20					8 0.000							8 0	8 0	85
4	8	H4	HEADWALL		20					43 2.000							43 2	43 2	461
44	5	R3	HEADWALL		10	S					17.000	17.000					4 3	4 1	187
			TOTALS																
	4																		7924
	5																		24595
	6																		12212
	7																		1444
	8																		1554
			TOTAL																47729
			TOTAL	E															0
			Slab on																
			Girder																
4																			7924
5																			24595
6																			12212
7																			1444
8																			1554
			TOTAL																47729

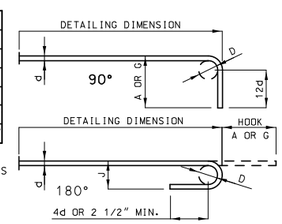


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK	135° HOOK	
		HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
BAR SIZE	D (IN.)	ALL GRADES		
		180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
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 (GRADE 60) FY = 60,000 PSI.

Detailed Feb. 2025
Checked Feb. 2025

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

STATE OF MISSOURI
DAVID ANDREW STRAATMANN
NUMBER PE-2004000848
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/28/2025
ROUTE FF | STATE MO
DISTRICT BR | SHEET NO. 2
COUNTY JASPER
JOB NO. J7S3059B
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A9696

DESCRIPTION
DATE

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

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

Bartlett & West
601 MONROE STREET, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

Missouri Department of Transportation
Construction and Materials

BORING NO. B-1
Page 1 of 1

Job No.: 15273-026-01 **County:** Jasper **Route:** FF
Design: **Skew:** **Location:** Joplin Davis Boulevevard Re-Alignment
Bent: **Logged By:** Sheri Stevens **Operator:** Carmen Hunter
Station: 97+04.1 **Northing:** 323786.3 **Date of Work:** 10/05/23-10/05/23
Offset: CL **Easting:** 2797889 **Depth to Water:**
Elevation: 1044.1 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:**
Requested Offset: **Equipment:** CME 750 ,Auger Cuttings
Requested Elevation: **Location Note:**
Drill No.: OWN Engineering **Hammer Efficiency:** 92.3% **Drilling Method:** Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.9' (CH) Brown sandy CLAY (medium stiff, dry)							LL = 51 PL = 19 Sieve Analysis Sieve # % Passing #10 73.6 #40 65.4 #200 58.8
		1.9-5.6' (CH) Red sandy CLAY with fine chert gravel (medium stiff, dry)	1040						
5		Bottom of borehole at 5.9 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri West **Coordinate Proj. Factor:** 1.0000
Coordinate Datum: NAD 83 **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

LETTER BOREHOLE - MODOT 20150728.GDT - 11/3/23 13:40 - C:\USERS\NARENSION\EDRIVE - GEOENGINEERS, INC\DESKTOP\1527302601.GPJ

Missouri Department of Transportation
Construction and Materials

BORING NO. B-2
Page 1 of 1

Job No.: 15273-026-01 **County:** Jasper **Route:** FF
Design: **Skew:** **Location:** Joplin Davis Boulevevard Re-Alignment
Bent: **Logged By:** Sheri Stevens **Operator:** Carmen Hunter
Station: 103+13.8 **Northing:** 323848.7 **Date of Work:** 10/05/23-10/05/23
Offset: 8.1 LT **Easting:** 2798494.3 **Depth to Water:**
Elevation: 1047.5 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:**
Requested Offset: **Equipment:** CME 750 ,Auger Cuttings
Requested Elevation: **Location Note:**
Drill No.: OWN Engineering **Hammer Efficiency:** 92.3% **Drilling Method:** Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.8' (CL) Dark brown CLAY with cobbles and gravel (medium stiff, dry)							LL = 48 PL = 23 Sieve Analysis Sieve # % Passing #4 79.9 #10 75.8 #40 70.9 #200 63.7
		0.8-10.0' (CL) Red gravelly CLAY with sand (very stiff, moist)	1045						
5			1040						
10		10.0-31.0' Yellowish tan highly weathered shale, with coarse-grained sand to fine gravel (soft)	1035						
15			1030						
20			1025						
25			1020						
30		31.0-35.6' Highly weathered limestone	1015						
35		Bottom of borehole at 35.6 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri West **Coordinate Proj. Factor:** 1.0000
Coordinate Datum: NAD 83 **Coordinate Units:** U.S. Survey Feet

* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

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BORING DATA

Note: For locations of borings, see Sheet No. 1.

Detailed Feb. 2025
Checked Feb. 2025

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

STATE OF MISSOURI
DAVID ANDREW STRAATMANN
NUMBER PE-2004000848
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
2/28/2025	
ROUTE: FF	STATE: MO
DISTRICT: BR	SHEET NO.: 3
COUNTY: JASPER	
JOB NO.: J7S3059B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.: A9696	

DESCRIPTION | DATE

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

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

Bartlett & West
601 MONROE STREET, SUITE 201 - JEFFERSON CITY, MO 65101
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

Missouri Department of Transportation
Construction and Materials

BORING NO. B-3
Page 1 of 1

Job No.: 15273-026-01 **County:** Jasper **Route:** FF
Design: **Skew:** **Location:** Joplin Davis Boulevevard Re-Alignment
Bent: **Logged By:** Sheri Stevens **Operator:** Carmen Hunter
Station: 103+91.6 **Northing:** **Date of Work:** 10/05/23-10/05/23
Offset: 45.1 LT **Easting:** **Depth to Water:**
Elevation: 1041.0 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:**
Requested Offset: **Equipment:** CME 750 ,
Requested Elevation: **Location Note:**
Drill No.: OWN Engineering **Hammer Efficiency:** 92.3% **Drilling Method:** Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-0.8' (CL-ML) Tan sandy SILT to CLAY (soft, dry)	1040						
		0.8-23.1' Tan and gray mottled highly weathered shale, with coarse-grained sand to fine gravel (soft)							
5			1035						
10			1030						
15			1025						
20			1020						
		23.1-25.5' Very dark gray to black shale (hard)							
25		Bottom of borehole at 25.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri West **Coordinate Proj. Factor:** 1.0000
Coordinate Datum: NAD 83 **Coordinate Units:** U.S. Survey Feet

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Missouri Department of Transportation
Construction and Materials

BORING NO. B-4
Page 1 of 1

Job No.: 15273-026-01 **County:** Jasper **Route:** FF
Design: **Skew:** **Location:** Joplin Davis Boulevevard Re-Alignment
Bent: **Logged By:** Sheri Stevens **Operator:** Carmen Hunter
Station: 103+25.4 **Northing:** **Date of Work:** 10/05/23-10/05/23
Offset: 49.4 RT **Easting:** **Depth to Water:**
Elevation: 1041.0 **Requested Northing:** **Depth Hole Open:**
Requested Station: **Requested Easting:** **Time Change:**
Requested Offset: **Equipment:** CME 750 ,
Requested Elevation: **Location Note:**
Drill No.: OWN Engineering **Hammer Efficiency:** 92.3% **Drilling Method:** Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N_{60})	Shear Data	Field Tests	Index Tests
0		0.0-1.0' (CL-ML) Tan sandy SILT to CLAY (soft, dry)	1040						
		1.0-20.0' Tan and gray mottled highly weathered shale, with coarse-grained sand to fine gravel (soft)							
5			1035						
10			1030						
15			1025						
20		20.0-25.5' Gray shale (medium hard to hard)	1020						
25		Bottom of borehole at 25.5 feet.							

N_{60} = (Em/60)Nm N_{60} - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value
(1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 **Coordinate Zone:** Missouri West **Coordinate Proj. Factor:** 1.0000
Coordinate Datum: NAD 83 **Coordinate Units:** U.S. Survey Feet

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BORING DATA

Note: For locations of borings, see Sheet No. 1.

Detailed Feb. 2025
Checked Feb. 2025

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