

**DESIGN DESIGNATION**

A.A.D.T. - 2025 = 18,405  
 A.A.D.T. - 2045 = 21,290  
 D.H.V. = 10%  
 T = 9%  
 V = 45 M.P.H.  
 D = 49%/51%

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

**CONTROLLED ACCESS HIGHWAY**

THIS SHALL BE A CONTROLLED ACCESS HIGHWAY, BETWEEN STA. 173+78.77 TO STA. 184+98.53, A DISTANCE OF 0.19 MILES EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY. THERE SHALL BE THE USUAL RIGHT OF ACCESS OVER ANY LOCATION SHOWN ON THESE PLANS EITHER AS (1) AN ENTRANCE OR (2) A PRIVATE UNDERPASS. WHEREVER AN ADJACENT OUTER ROADWAY OR SERVICE ROAD IS SHOWN, THERE SHALL BE THE USUAL RIGHT OF DIRECT ACCESS BETWEEN THE ABUTTING PROPERTY AND SUCH OUTER ROADWAY OR SERVICE ROAD (EXCEPT WHERE ACCESS IS SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING NO RIGHT OF ACCESS) AND ALONG IT TO AND FROM THE NEAREST LANE OF THE THROUGHWAY OF A PUBLIC HIGHWAY. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS.

- BEGINNING AND ENDING OF CONTROLLED ACCESS
- CONTROLLED ACCESS
- NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

**CONVENTIONAL SYMBOLS (USED IN PLANS)**

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

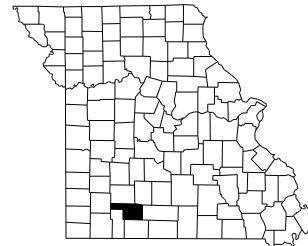
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## PLANS FOR PROPOSED STATE HIGHWAY

### SECTION 4 T27N R21W

### CHRISTIAN COUNTY



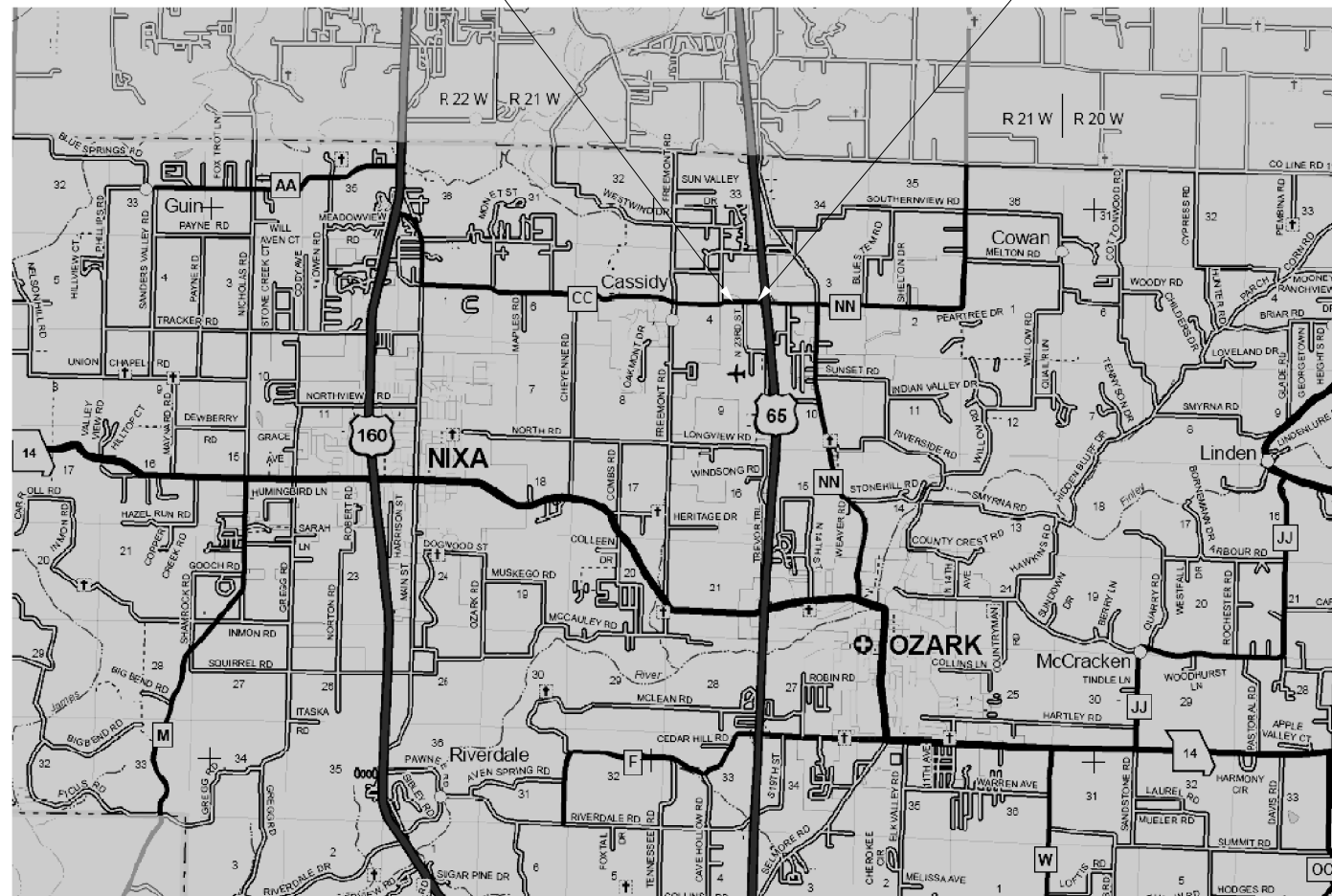
KEY MAP  
LOCATION OF CHRISTIAN COUNTY

JOB NO. J8S0736E  
ROUTE CC

GRADING, DRAINAGE, PAVING, SIGNING,  
& TRAFFIC SIGNAL  
LENGTH= 0.212 MILES

BEGIN PROJECT  
STA. 173+78.77  
LDG MI. 4.183

END PROJECT  
STA. 184+98.53  
LDG MI. 4.398

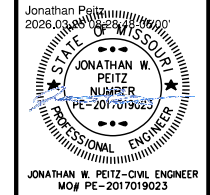


NOT TO SCALE

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

**INDEX OF SHEETS**

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (10 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
PLAN-PROFILE (PP)	4-8
RIGHT OF WAY (RW)	9-12
COORDINATE POINTS (CP)	13
SPECIAL SHEETS (SS)	14-21
TRAFFIC CONTROL SHEETS (TC)	22-30
EROSION CONTROL SHEETS (EC)	31-40
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PAVEMENT MARKING (PM)	49-51
SIGNING (SN)	52
CULVERT SECTIONS (CS)	53-60
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CROSS SECTIONS (XS)	1-28
UTILITIES (WATER) (U)	U1



DATE PREPARED	3/25/2026
ROUTE	CC MO
DISTRICT	SW 1
COUNTY	CHRISTIAN
JOB NO.	J8S0736E
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A38612

DATE	DESCRIPTION

**LENGTH OF PROJECT**

BEGINNING OF PROJECT	STA. 173+78.77
END OF PROJECT	STA. 184+98.53
APPARENT LENGTH	1,119.76 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	1,119.76 FEET
STATE LENGTH	0.212 MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	2.72 ACRE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

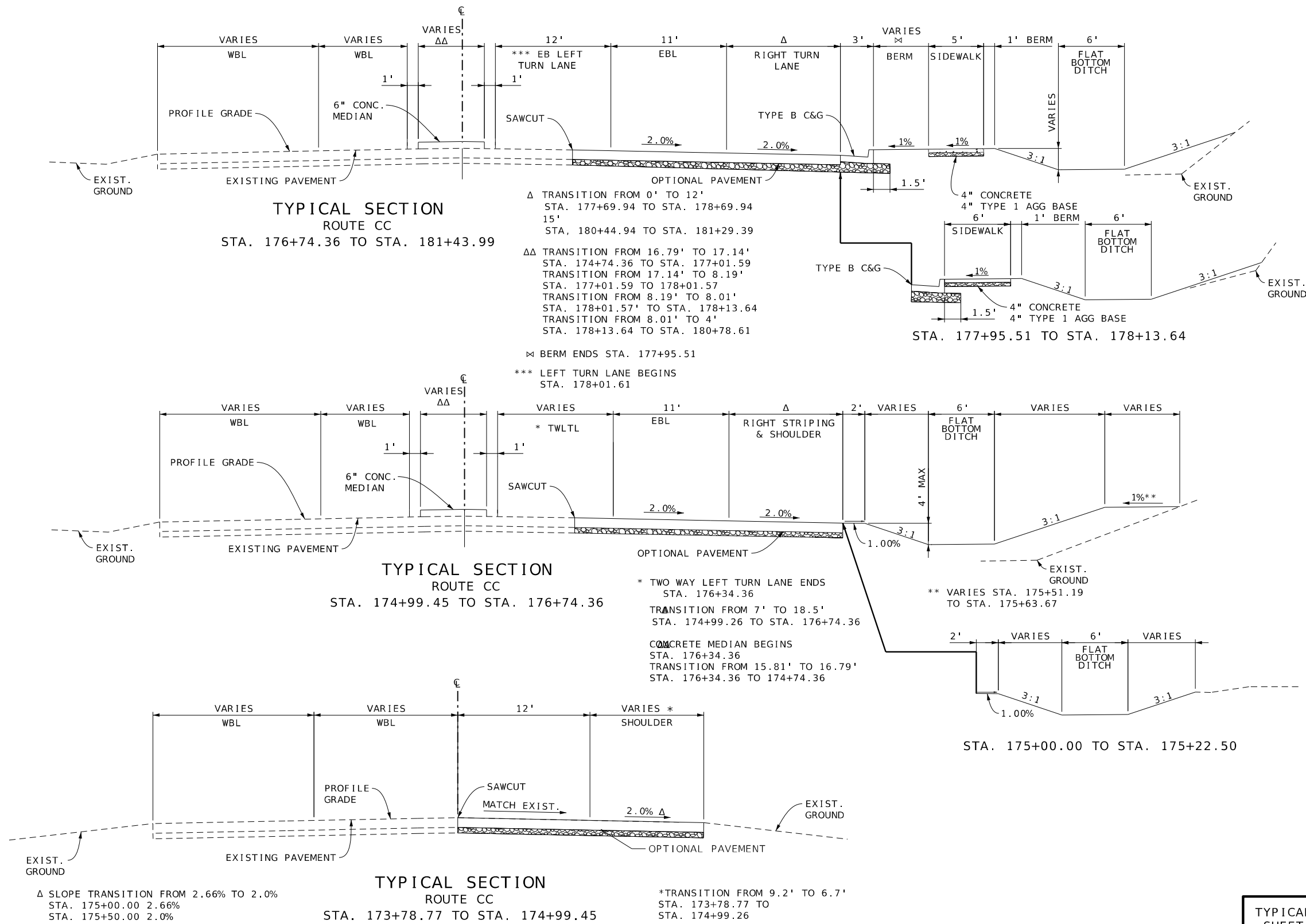
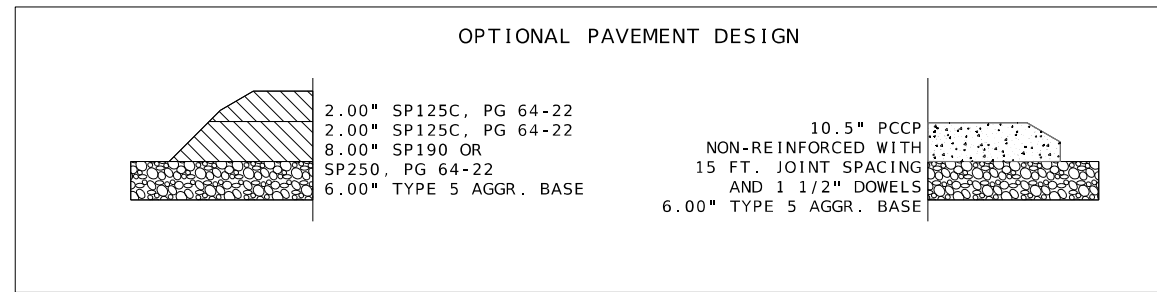
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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

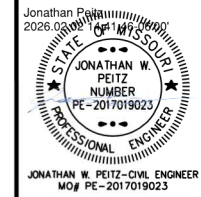
NOTE:  
 CROSS SECTIONS AND EARTHWORK IN THIS PROJECT ARE BASED ON THE CONCRETE OPTION.  
 CONTRACTOR IS RESPONSIBLE FOR MAKING ANY ADJUSTMENTS WITH NO EXTRA PAY IF ASPHALT  
 OPTION IS USED.

SUBGRADE PROFILE AND CROSS SECTIONS ARE DESIGNED FOR THE THINNER PAVEMENT DESIGN.  
 THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PROFILE GRADE FOR EITHER PAVEMENT  
 DESIGN WITH NO DIRECT PAY. CROSSROAD STRUCTURES ARE DESIGNED TO ACCOMMODATE A  
 MINIMUM COVER BASED ON THE THICKER PAVEMENT DESIGN.



NOT TO SCALE

TYPICAL SECTION  
 SHEET 1 OF 10



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

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

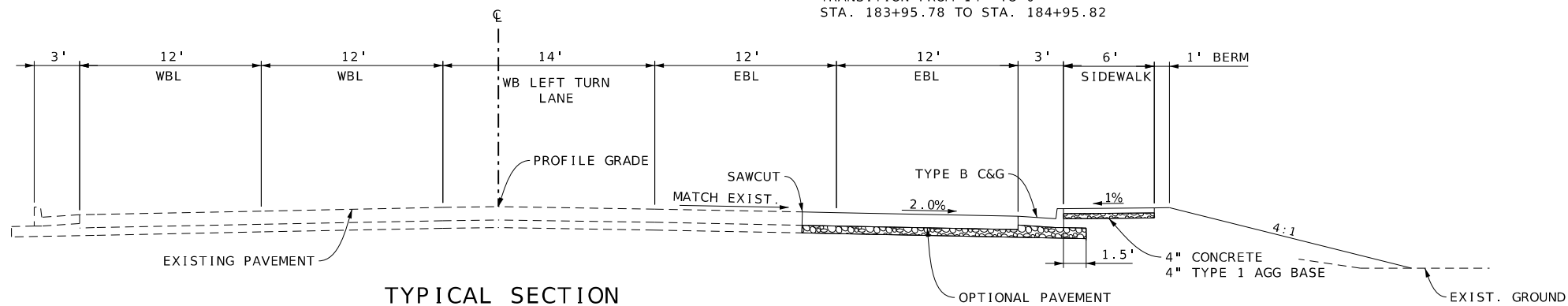
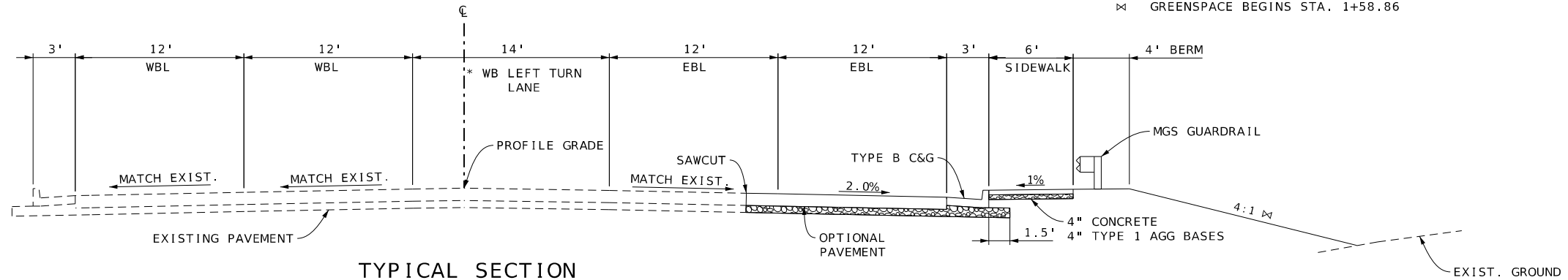
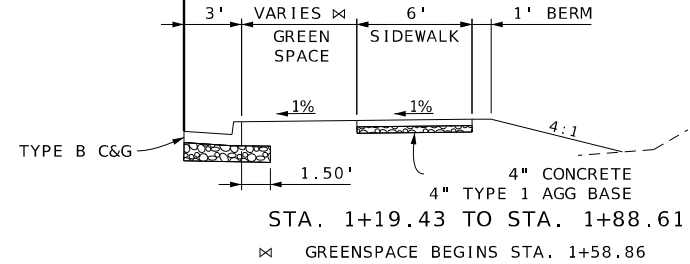
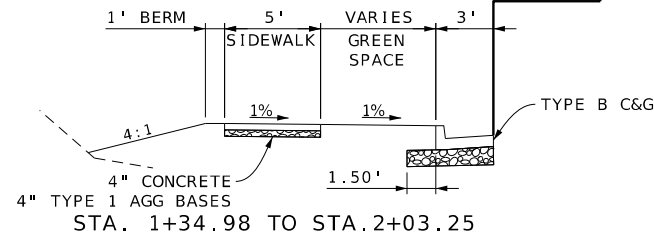
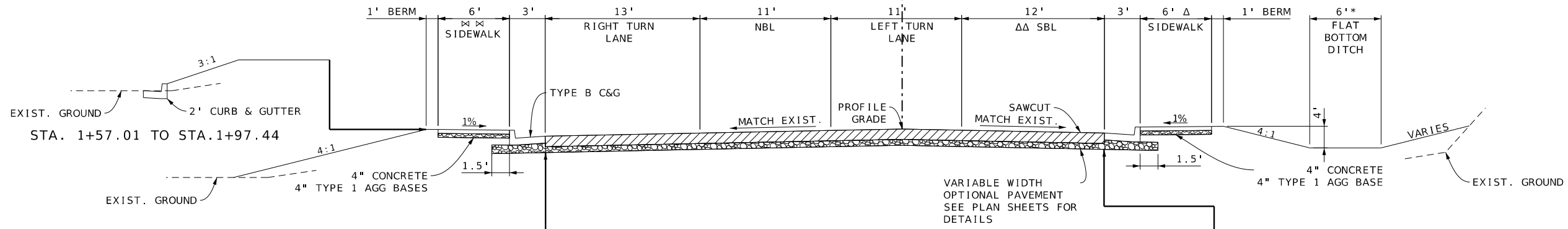
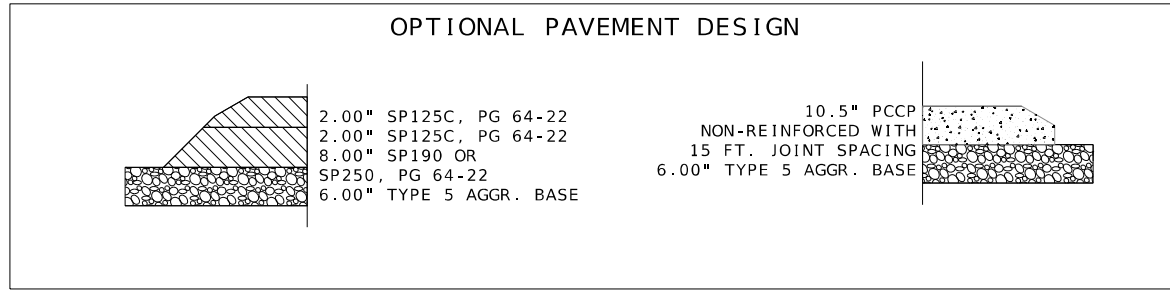
550 ST. LOUIS STREET  
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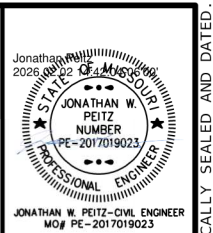
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 MINIMUM COVER BASED ON THE THICKER PAVEMENT DESIGN.

SEE STD. PLAN 606.50 FOR MGS GUARDRAIL AND 606.81 FOR MGS GRADING LIMITS.



NOT TO SCALE

TYPICAL SECTION  
 SHEET 2 OF 10



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DESCRIPTION	DATE

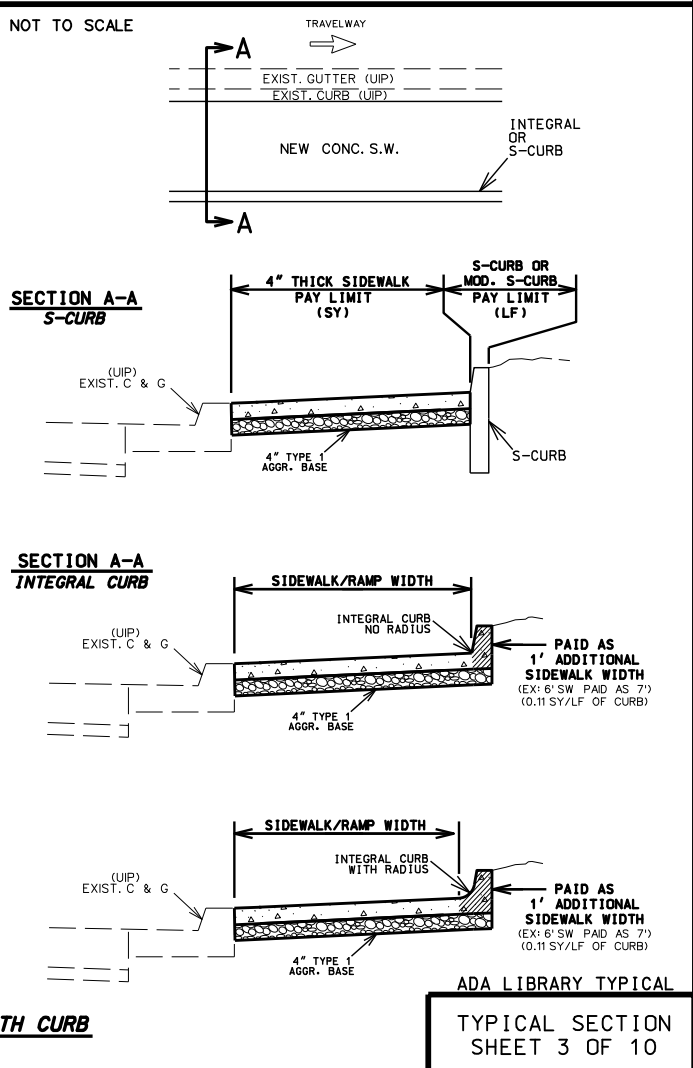
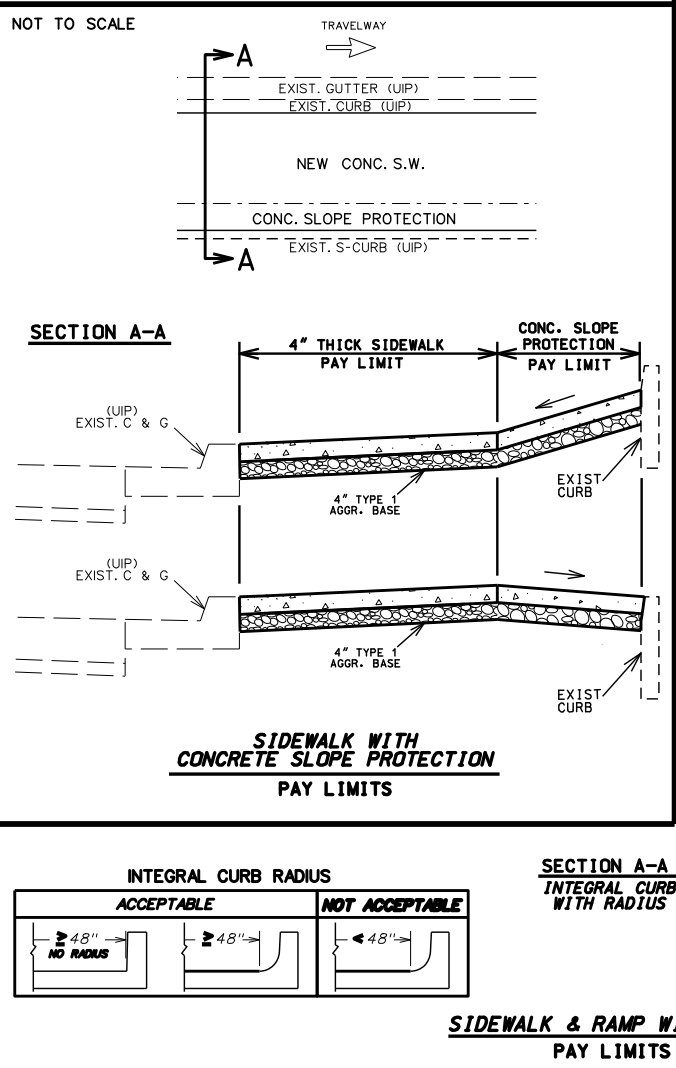
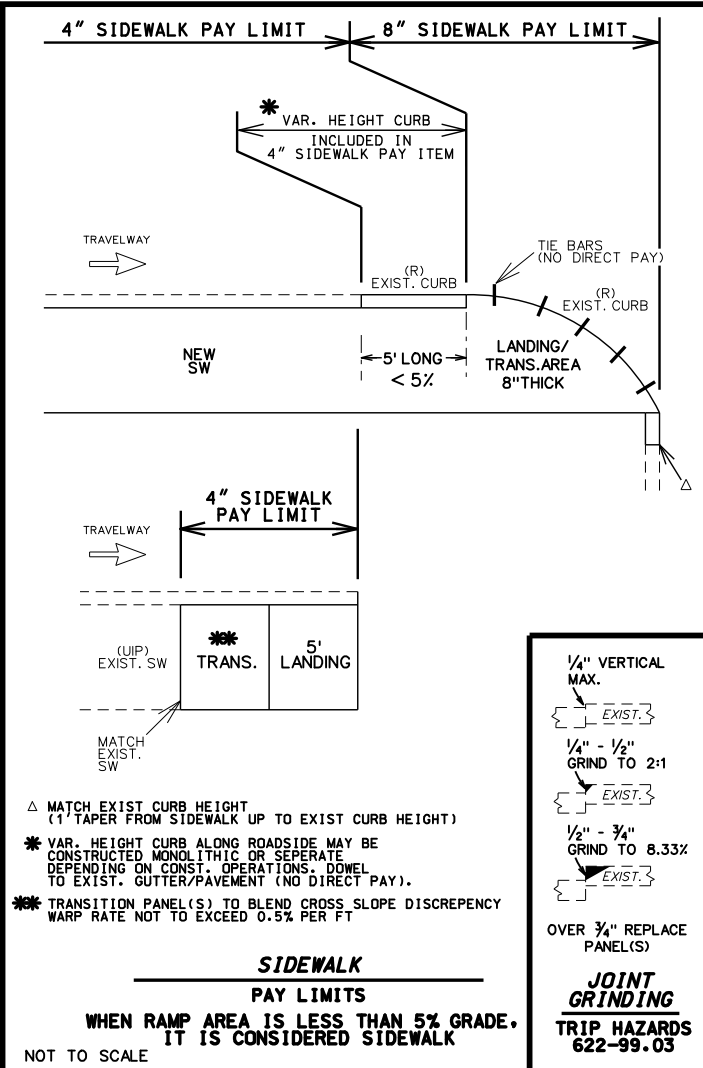
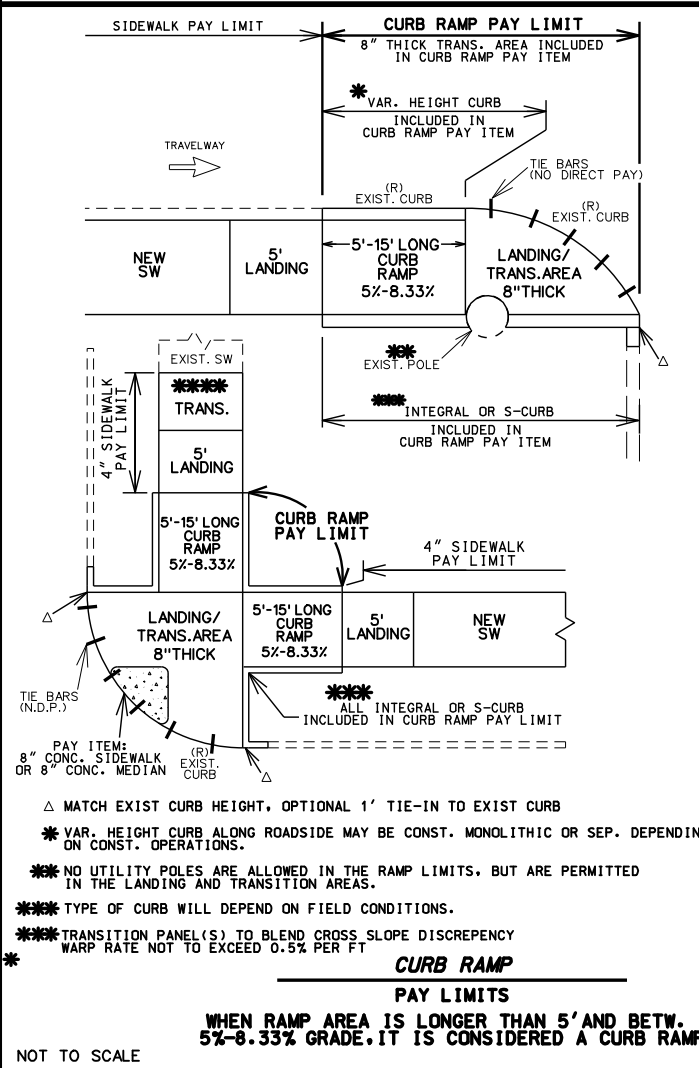
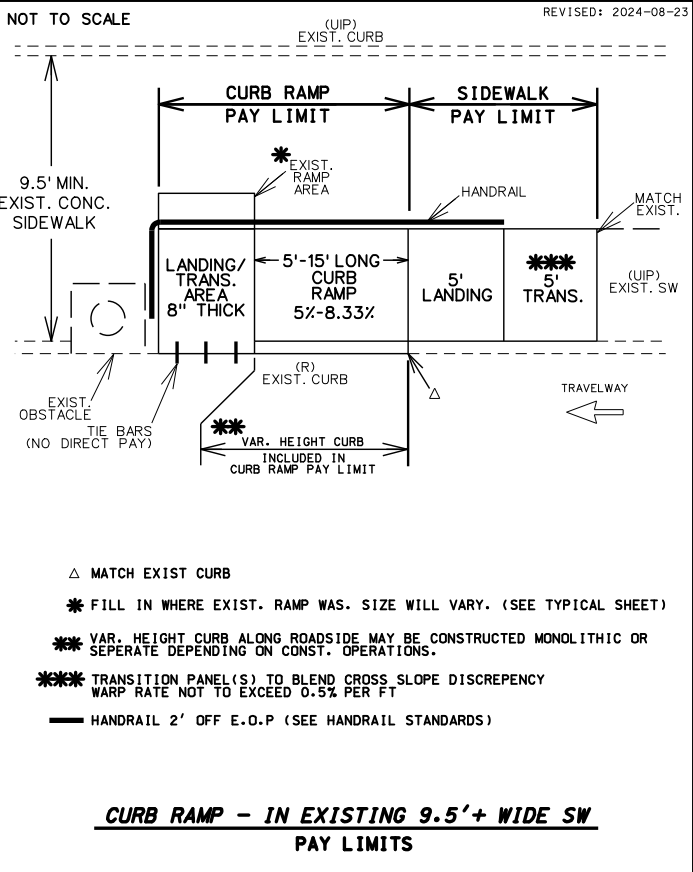
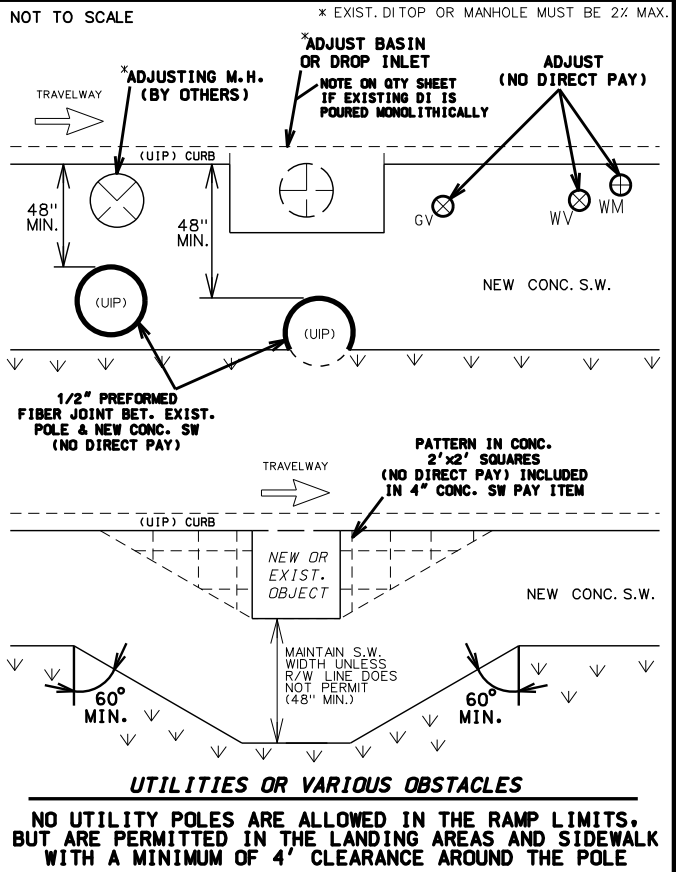
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

- 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.
- 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)
- CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
- 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.
- 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.
- 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.
- 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.
- "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
- 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).
- 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 SLOPES SHALL BE 1% PREFERRED (2% MAX.) TOWARD THE STREET. CURB RAMP ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
- SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMP OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
- S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
- SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.



Professional Engineer  
JONATHAN W. PEITZ  
NUMBER  
2017070923  
JONATHAN W. PEITZ-CIVIL ENGINEER  
MO# PE-2017070923

DATE PREPARED  
2/2/2026

ROUTE  
CC

STATE  
MO

DISTRICT  
SW

SHEET NO.  
2

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

olsson  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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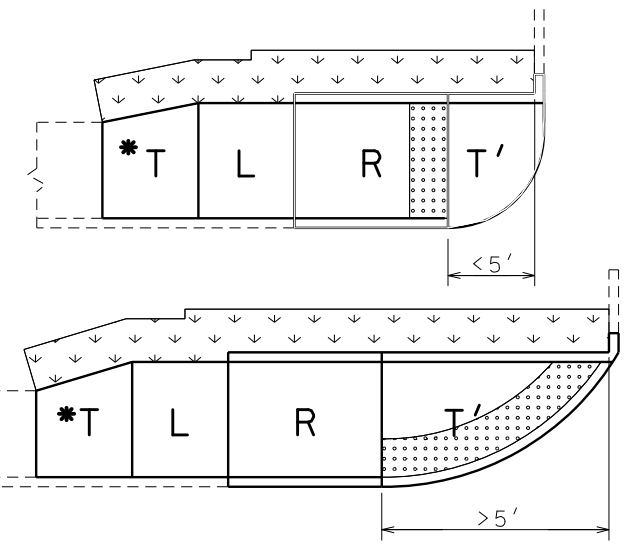
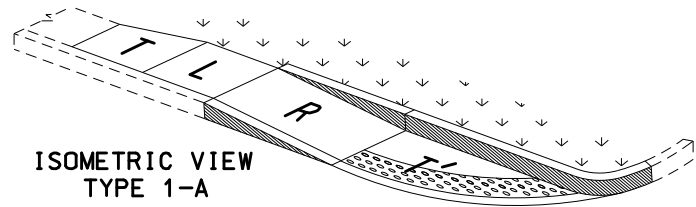
TYPE 1-A										REMARKS	
LENGTH (LF)		8			12			16			
WIDTH (LF)		4	5	6	4	5	6	4	5		6
TRUNCATED DOMES	SF	-	22.0	24.0	-	22.0	24.0	-	22.0	24.0	
CURB RAMP	SY	-	10.9	13.1	-	13.6	16.3	-	16.2	19.3	
CONC. SIDEWALK	SY	-	5.6	6.3	-	5.6	6.4	-	4.9	5.7	
TYPE 1 AGGREGATE	SY	-	16.5	19.4	-	19.2	22.7	-	21.1	25.0	
ADA 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-B										REMARKS	
LENGTH (LF)		8			12			16			
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-C										REMARKS	
LENGTH (LF)		8			12			16			
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-D										REMARKS	
LENGTH (LF)		8			12			16			
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-E										REMARKS	
LENGTH (LF)		8			12			16			
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 PREFERRED AT PAVED APPROACH 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 INTO THE NEW LANDING XSLOPE)

L - LANDING  
 R - RAMP

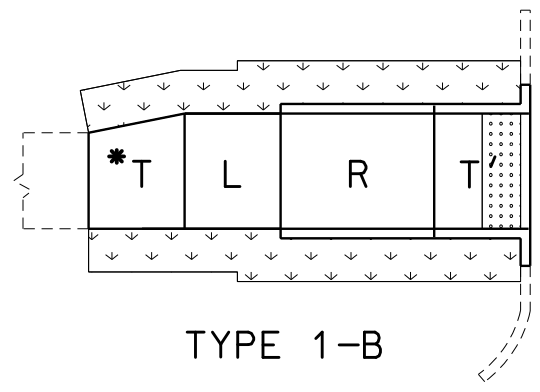
- CURB RAMP PAY LIMITS

- SOD SLOPE 6:1 MIN.

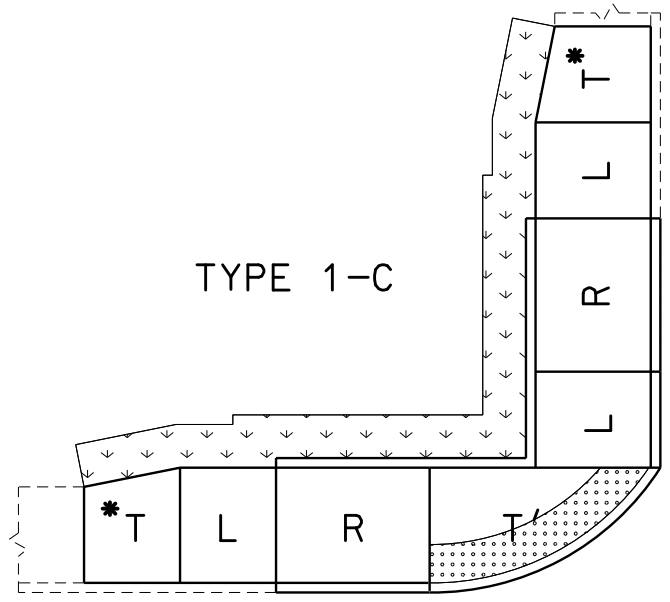
- TRUNCATED DOME LOCATION, IF DIST. IS <math>< 5'</math> OR <math>> 5'</math>

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

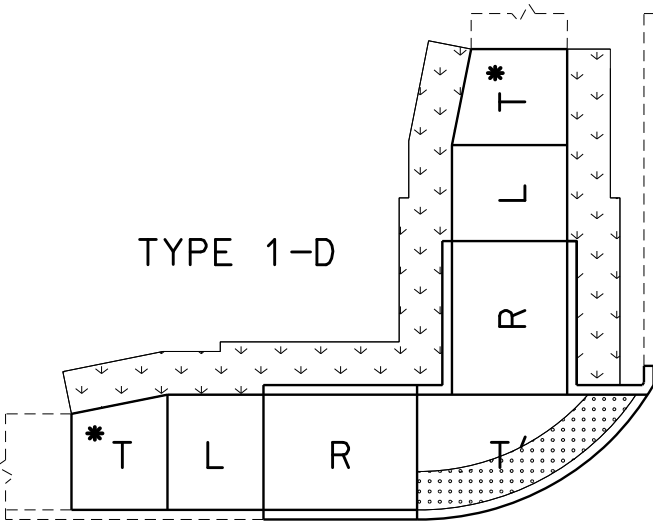
NOTE: QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



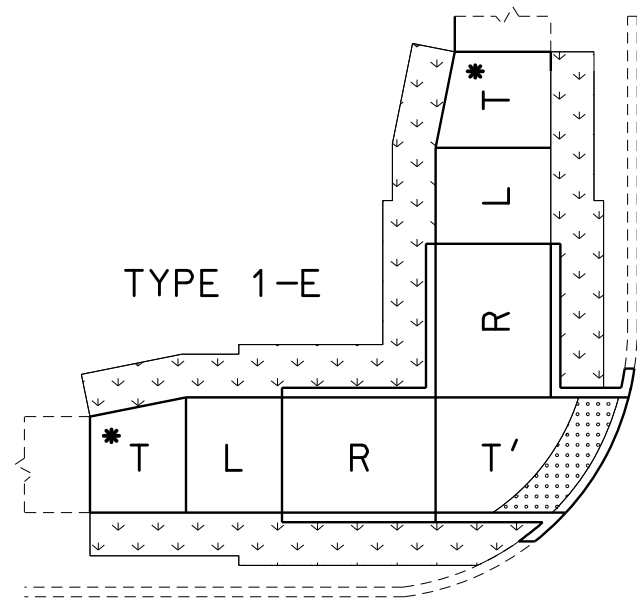
TYPE 1-B



TYPE 1-C



TYPE 1-D



TYPE 1-E

ADA LIBRARY TYPICAL  
 TYPE 1  
 PERPENDICULAR  
 CURB RAMPS

TYPICAL SECTION  
 SHEET 4 OF 10

**olsson**

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF  
 AUTHORITY NO. 001592

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

DATE PREPARED  
 2/2/2026  
 ROUTE STATE  
 CC MO  
 DISTRICT SHEET NO.  
 SW 2  
 COUNTY  
 CHRISTIAN  
 JOB NO.  
 J8S0736E  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.  
 A38612

DATE	DESCRIPTION

Jonathan W. Peitz  
 2026  
 STATE OF MISSOURI  
 JONATHAN W. PEITZ  
 NUMBER  
 PROFESSIONAL ENGINEER  
 JONATHAN W. PEITZ-CIVIL ENGINEER  
 MO# PE-2017019023

PARALLEL - TYPE 2

TYPE 2-A		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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	-	-	-	-	-	-	-	-	-	

TYPE 2-F		8			12			16			REMARKS
LENGTH (LF)	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	-	-	-	-	-	-	-	-	-	

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

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

NOTE: SEE STANDARDS FOR ALL PED.  
PUSH BUTTON LOCATIONS

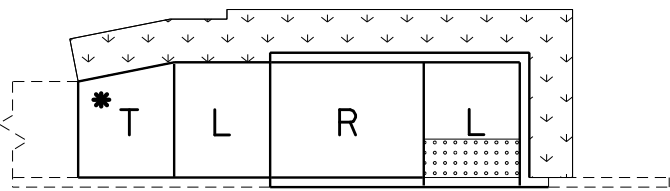
▤ - TRUNCATED DOME

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

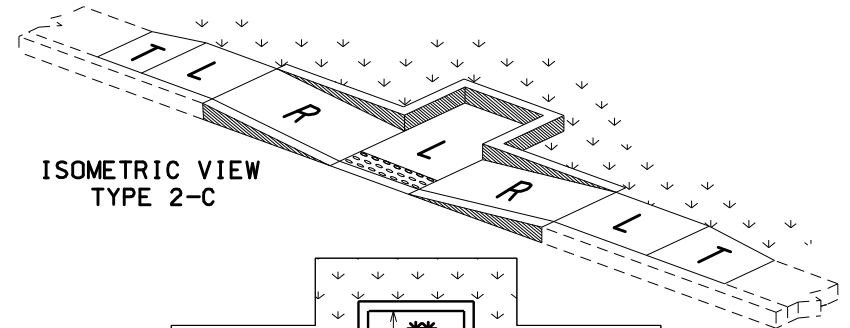
T - TRANSITION TO EXISTING SW  
\* - T IS STILL NEEDED EVEN IF THE  
EXISTING SIDEWALK IS THE SAME  
WIDTH AS THE NEW SIDEWALK. (IT  
WILL BLEND THE EXIST XSLOPE  
INTO THE NEW LANDING XSLOPE)

L - LANDING  
R - RAMP

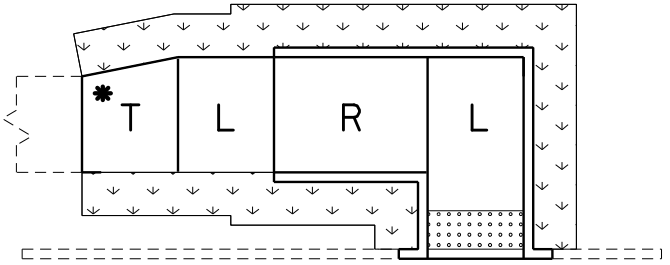
▾ ▾ - SOD SLOPE 6:1 MIN.  
▨ - CURB RAMP PAY LIMITS



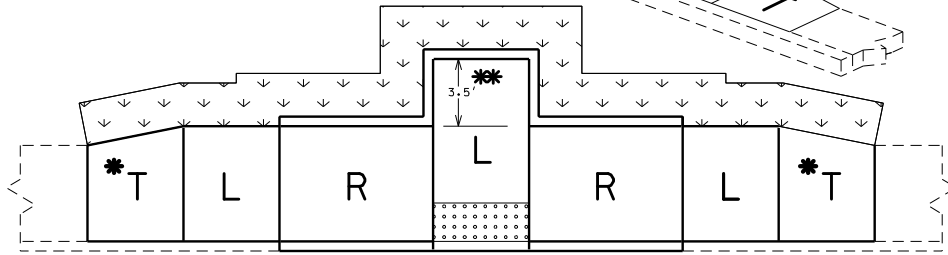
TYPE 2-A



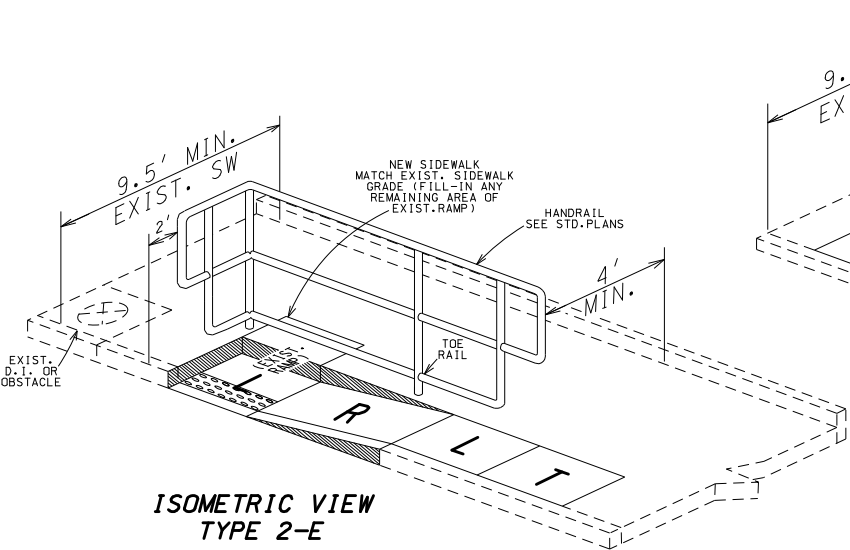
ISOMETRIC VIEW  
TYPE 2-C



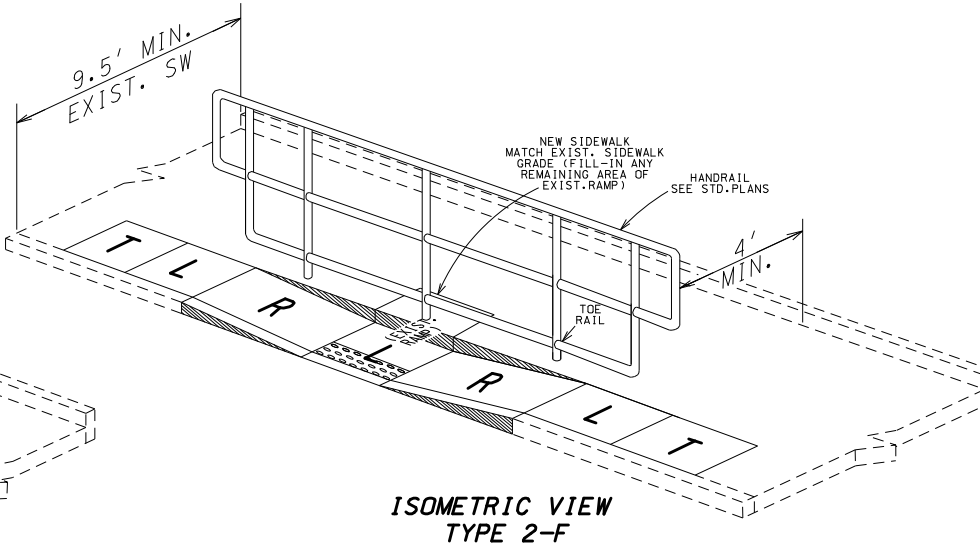
TYPE 2-B



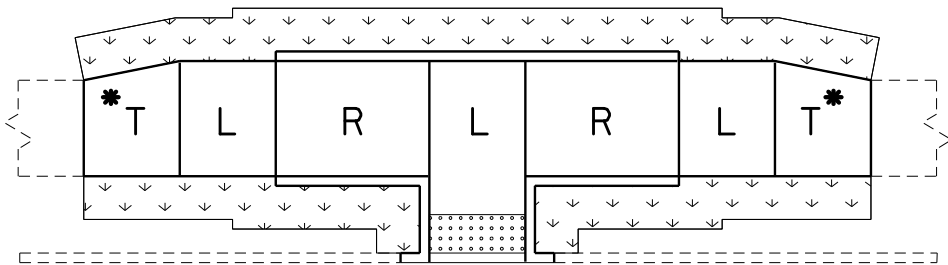
TYPE 2-C



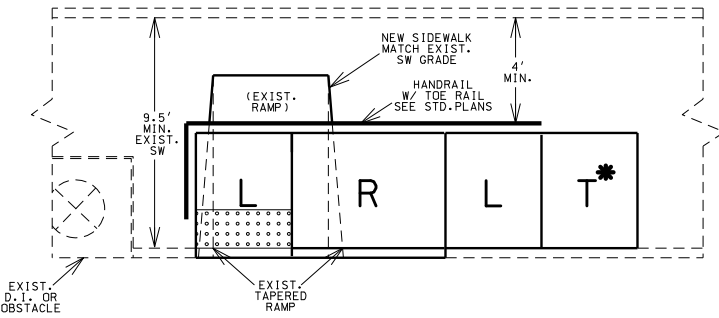
ISOMETRIC VIEW  
TYPE 2-E



ISOMETRIC VIEW  
TYPE 2-F

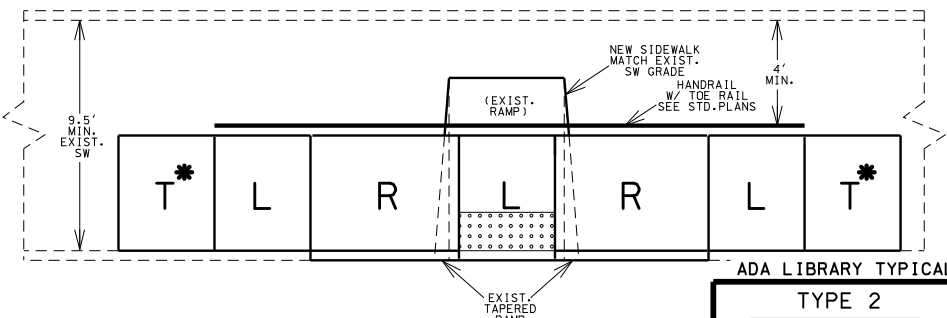


TYPE 2-D



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

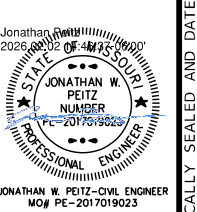


TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

ADA LIBRARY TYPICAL  
TYPE 2  
PARALLEL  
CURB RAMPS

TYPICAL SECTION  
SHEET 5 OF 10



DATE PREPARED  
2/2/2026  
ROUTE  
CC MO  
DISTRICT  
SW 2  
COUNTY  
CHRISTIAN  
JOB NO.  
J8S0736E  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.  
A38612

DATE	DESCRIPTION

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

olsson  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

PARALLEL - TYPE 2 (cont'd.)

REVISED: 2022-05-18

TYPE 2-G		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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.

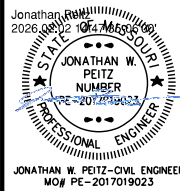
[Pattern] - TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'

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

[Hatched] - CURB RAMP PAY LIMITS

[Pattern] - INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

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



DATE PREPARED  
2/2/2026  
ROUTE CC STATE MO  
DISTRICT SW SHEET NO. 2  
COUNTY CHRISTIAN  
JOB NO. J8S0736E  
CONTRACT ID.

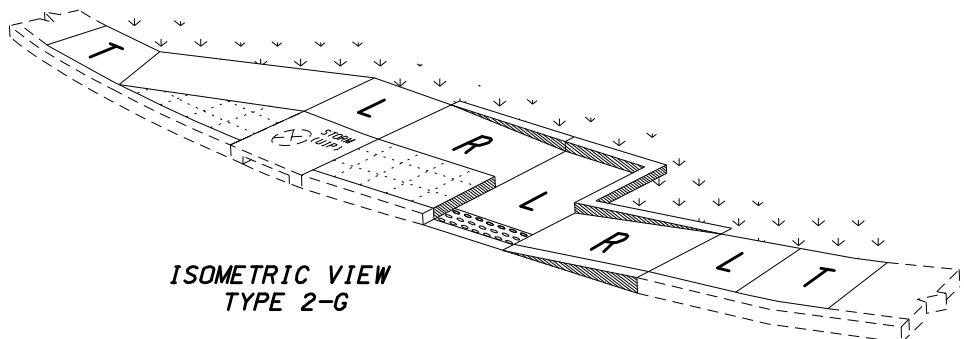
PROJECT NO.  
BRIDGE NO. A38612

DATE	DESCRIPTION

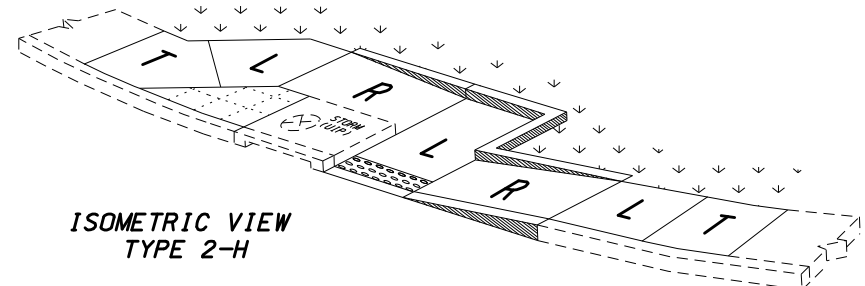
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

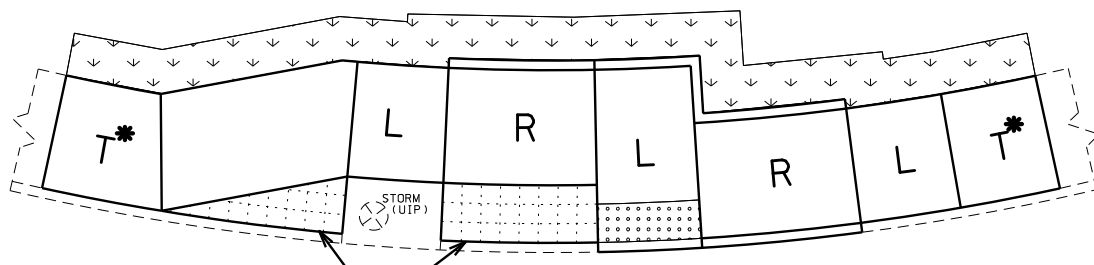
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



ISOMETRIC VIEW  
TYPE 2-G

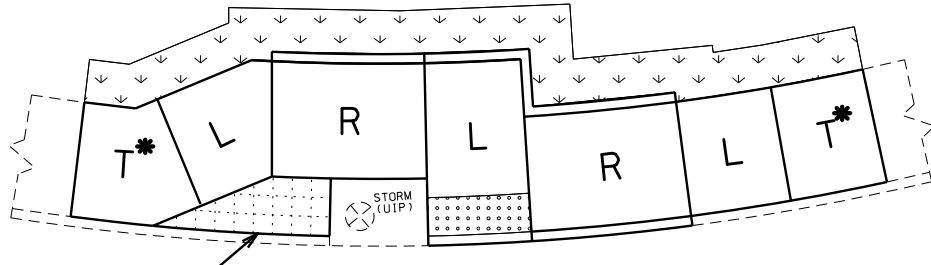


ISOMETRIC VIEW  
TYPE 2-H



PATTERN IN CONC. SW  
2'x2' SQUARES  
(NO DIRECT PAY)

TYPE 2-G



PATTERN IN CONC. SW  
2'x2' SQUARES  
(NO DIRECT PAY)

TYPE 2-H

ADA LIBRARY TYPICAL  
TYPE 2  
PARALLEL  
CURB RAMPS  
TYPICAL SECTION  
SHEET 6 OF 10

DIAGONAL - TYPE 3

TYPE 3-A		8			12			16			REMARKS
LENGTH (LF)	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	

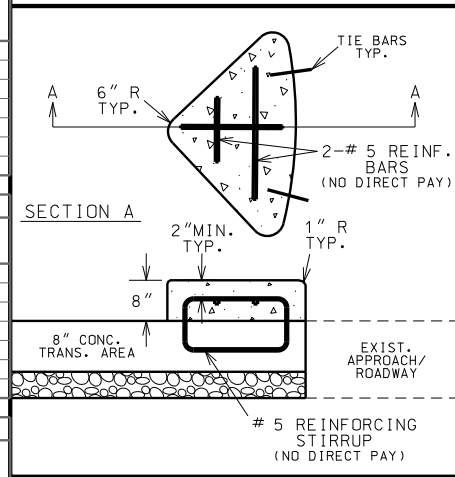
TYPE 3-B		8			12			16			REMARKS
LENGTH (LF)	WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	-	24.0	28.0	-	20.6	25.0	-	20.6	25.0	
CURB RAMP	SY	-	22.0	26.3	-	25.9	31.2	-	31.2	37.4	
CONC. SIDEWALK	SY	-	11.2	12.8	-	9.8	11.4	-	9.8	11.4	
TYPE 1 AGGREGATE	SY	-	33.2	39.1	-	35.7	42.6	-	41.0	48.8	
ADA LINEAR 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		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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		8			12			16			REMARKS
LENGTH (LF)	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 PREFERRED 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 SLOPE WITH THE NEW LANDING XSLOPE)

L - LANDING

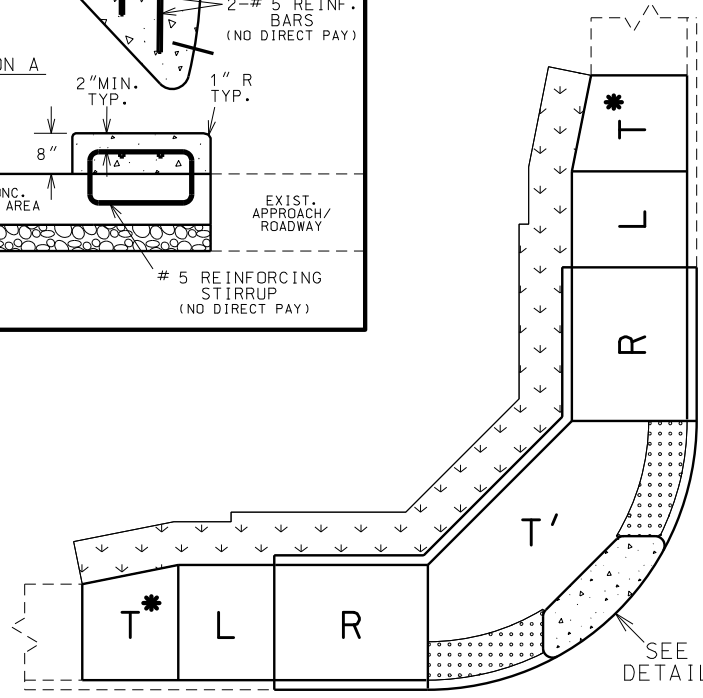
R - RAMP

▨ - CURB RAMP PAY LIMITS

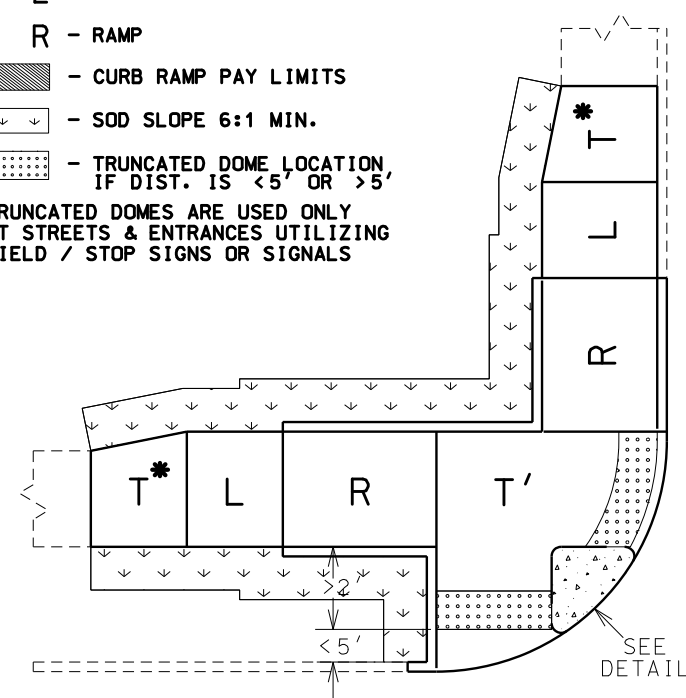
↙ ↘ - SOD SLOPE 6:1 MIN.

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

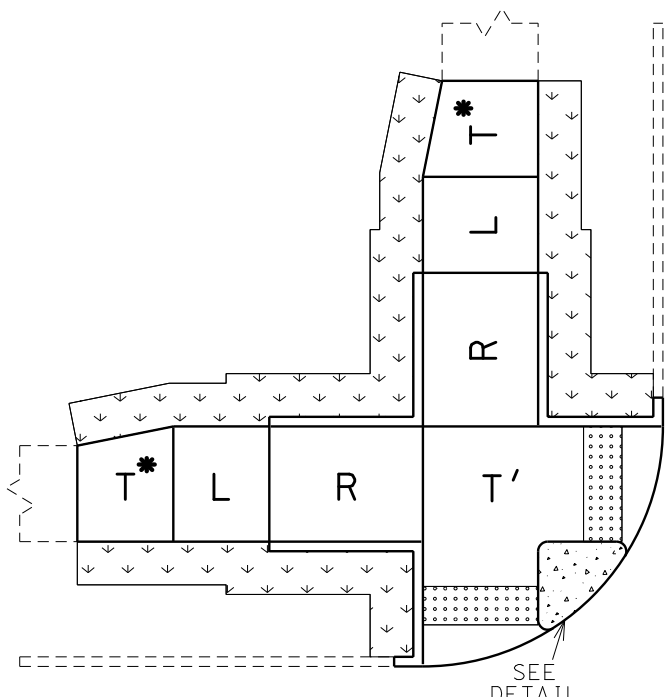
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



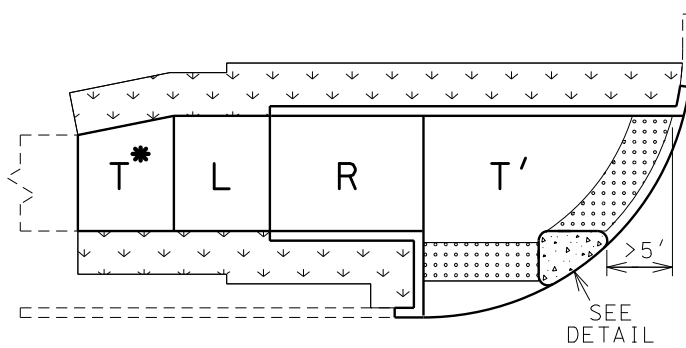
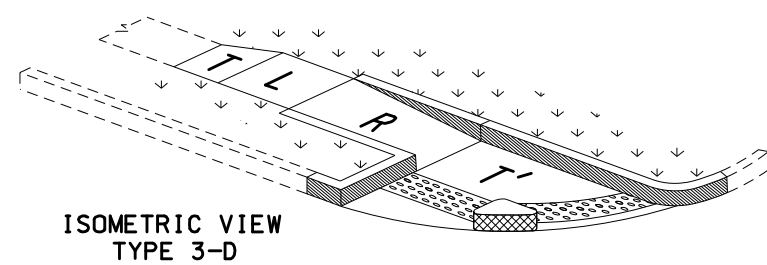
TYPE 3-A



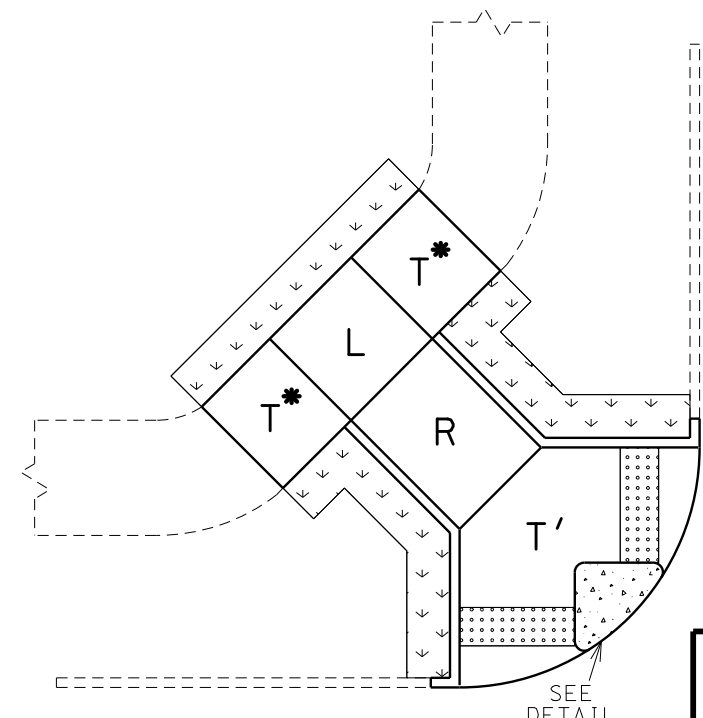
TYPE 3-B



TYPE 3-C



TYPE 3-D

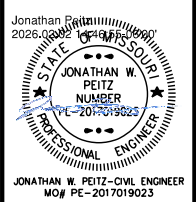


TYPE 3-E

ADA LIBRARY TYPICAL  
TYPE 3  
DIAGONAL  
CURB RAMPS

TYPICAL SECTION  
SHEET 7 OF 10

REVISED: 2022-05-18



DATE PREPARED		2/2/2026	
ROUTE	STATE	CC	MO
DISTRICT	SHEET NO.	SW	2
COUNTY			
CHRISTIAN			
JOB NO.			
J8S0736E			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A38612			

DATE	DESCRIPTION

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

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

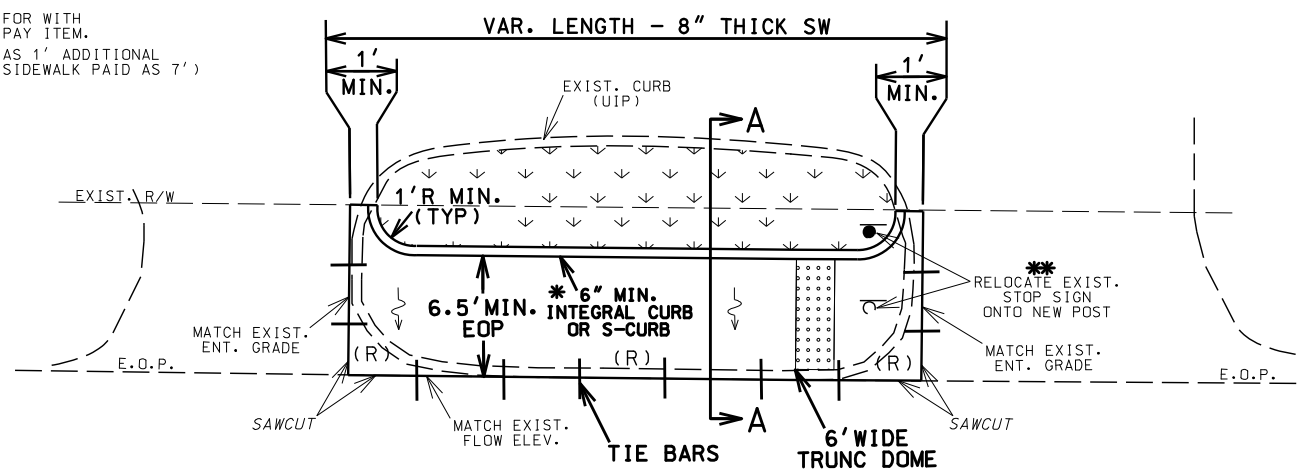
NOTES FOR MODIFIED SIDEWALK:

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.

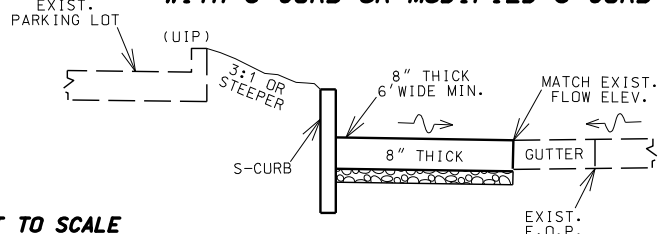
\* INTEGRAL CURB IS PAID FOR WITH THE 8" CONC. SIDEWALK PAY ITEM.  
 INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6' SIDEWALK PAID AS 7') (0.11 SY/LF OF CURB)

**TYPICAL MODIFIED SIDEWALK**  
**8" THICK**

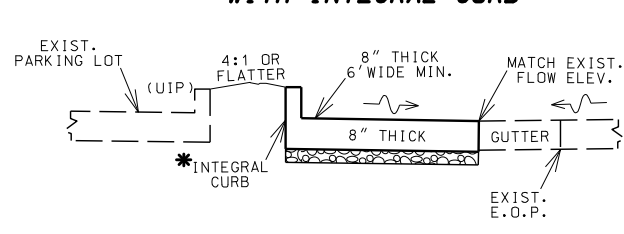
\*\* TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.



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



**SECTION A-A WITH INTEGRAL CURB**



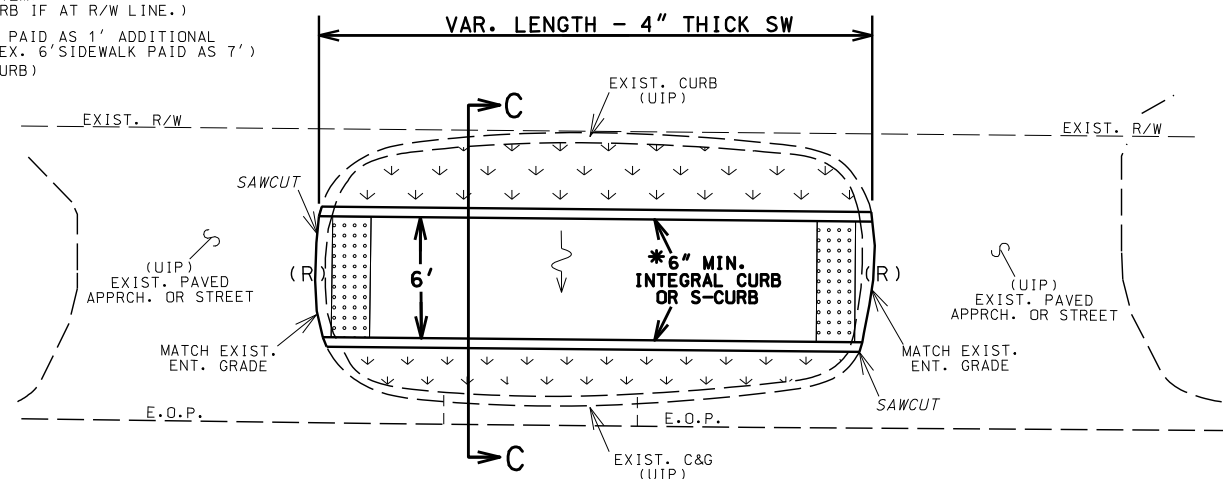
NOT TO SCALE

NOTES FOR CUT-THRU SIDEWALK:

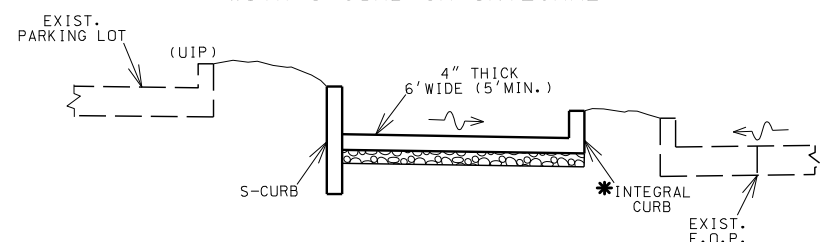
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU 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**



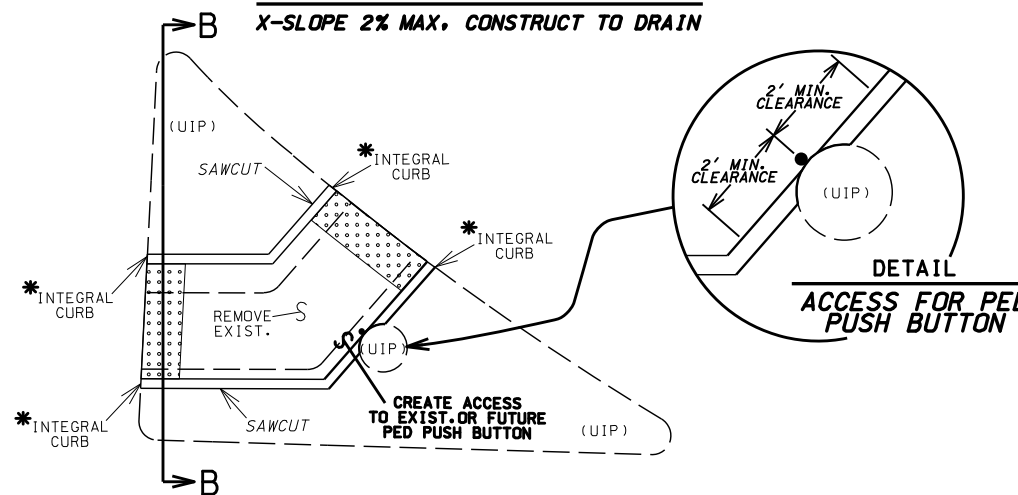
**SECTION C-C WITH S-CURB OR INTEGRAL**



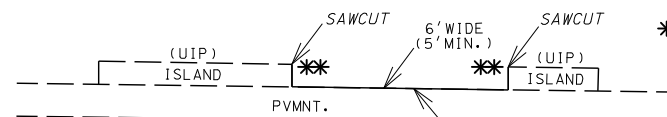
NOT TO SCALE

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

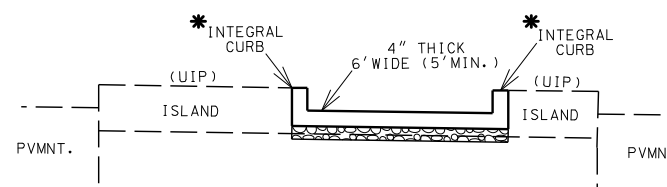
NOT TO SCALE



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



**SECTION B-B ISLAND CUT-THRU SIDEWALK**



■ 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)

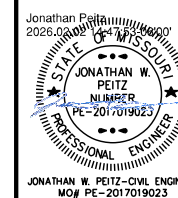
\*\* NO INTEGRAL CURB, AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

\* 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)

ADA LIBRARY TYPICAL

MODIFIED SIDEWALK AND SIDEWALK CUT-THRUS

TYPICAL SECTION SHEET 8 OF 10



DATE PREPARED 2/2/2026

ROUTE CC STATE MO

DISTRICT SW SHEET NO. 2

COUNTY CHRISTIAN

JOB NO. J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



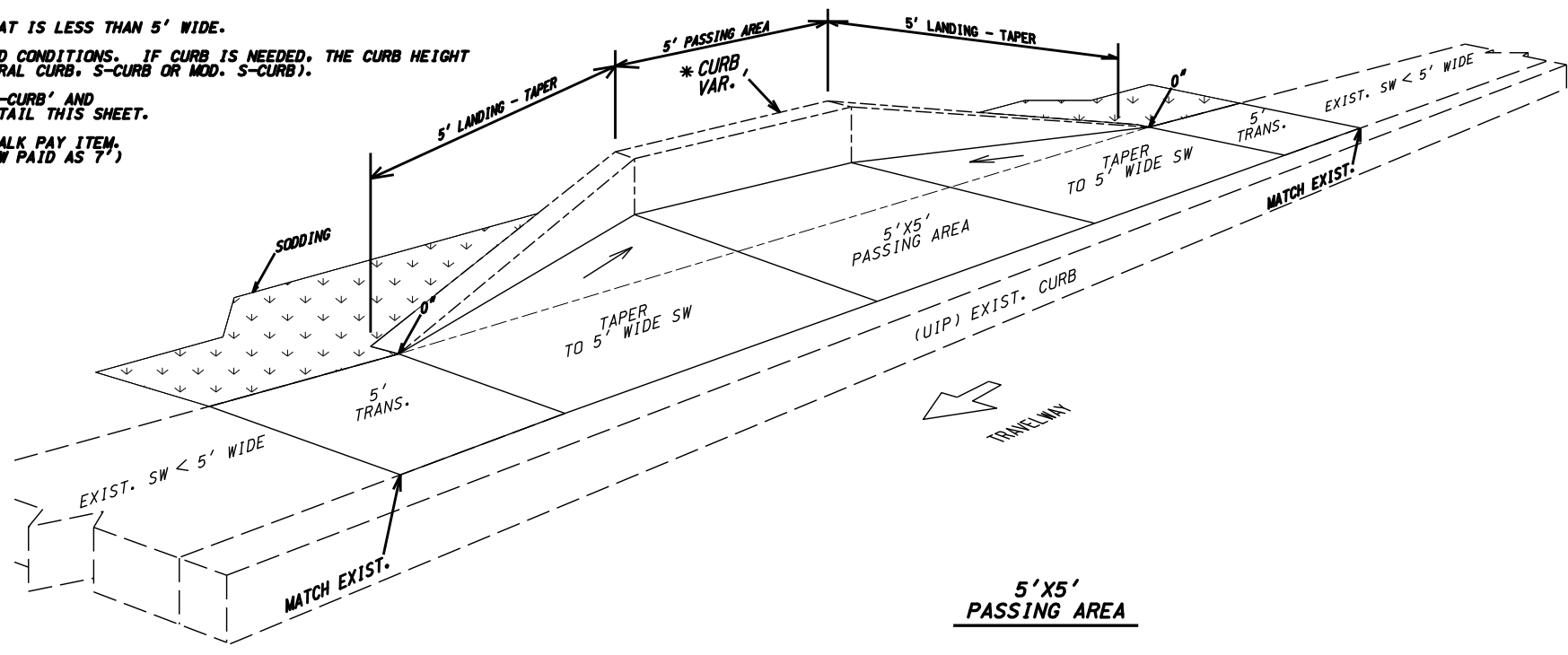
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



550 ST. LOUIS STREET SPRINGFIELD, MO 65806 PH. (417) 890-8802 CERTIFICATE OF AUTHORITY NO. 001592

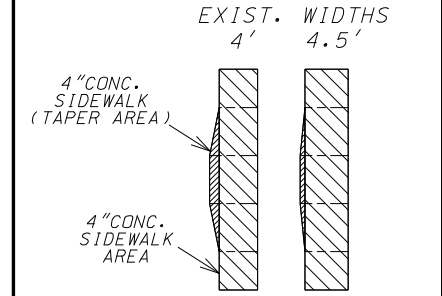
**NOTES:**

- 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')



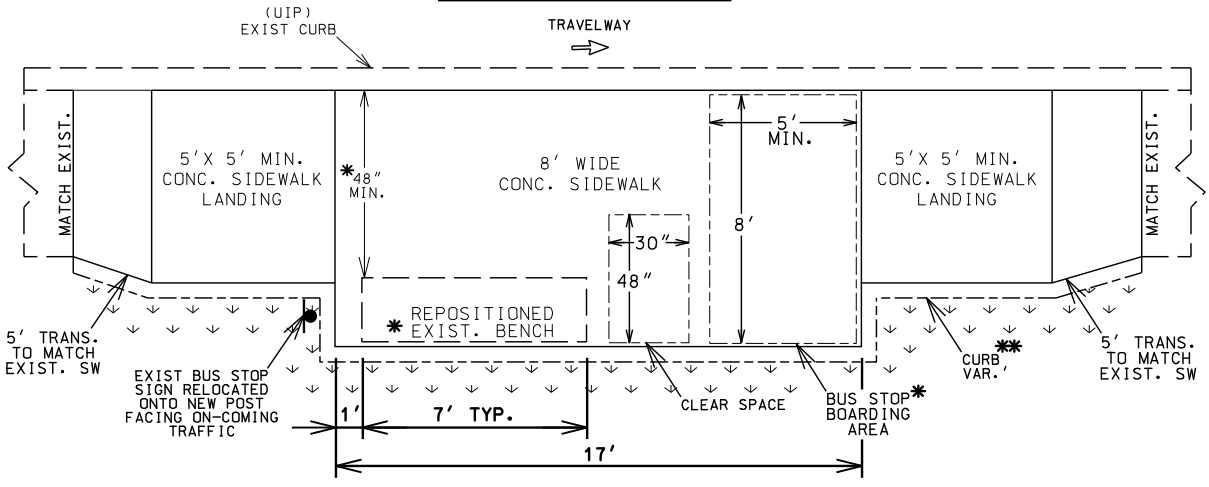
**QUANTITIES FOR PASSING AREAS**

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
MODIFIED S-CURB	LF 17.2	16.0
SODDING	SY 53.0	53.0
LINEAR GRADING	LF 25.0	25.0

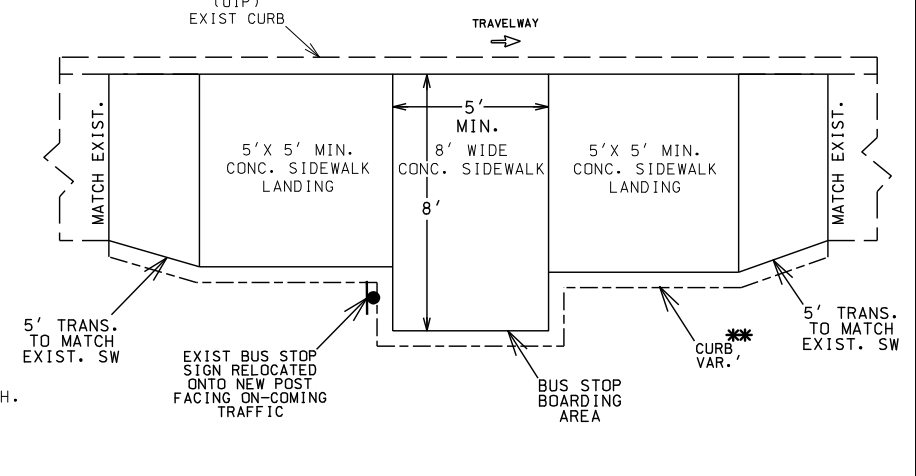


NOT TO SCALE

**BUS STOP WITH BENCH**

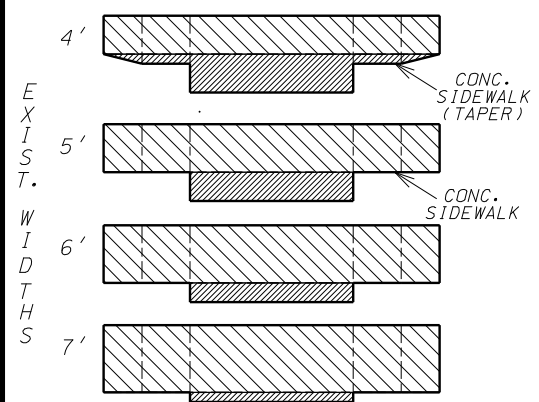


**BUS STOP WITHOUT BENCH**



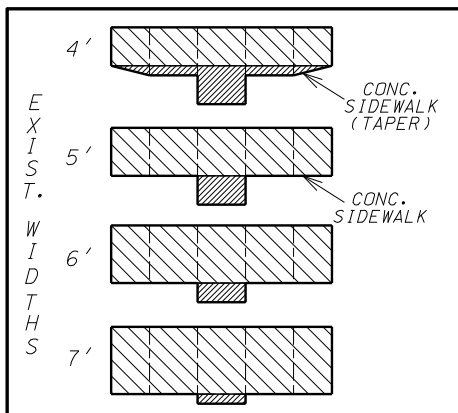
**NOTES:**

- \* 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)



**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
MODIFIED 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



**QUANTITIES FOR BUS STOPS - NO BENCH**

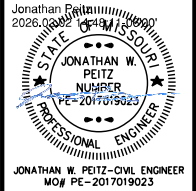
EXISTING SW WIDTH	4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY 3.9	1.8	1.3	0.7
TYPE 1 AGGREGATE	SY 3.9	1.8	1.3	0.7
4" CONC. SIDEWALK	SY 10.4	12.9	15.5	18.0
TYPE 1 AGGREGATE	SY 10.4	12.9	15.5	18.0
INTEGRAL CURB ***	SY 3.8	2.0	1.8	1.6
TYPE 1 AGGREGATE	SY 1.9	1.0	0.9	0.8
S-CURB	LF 31.0	15.0	13.0	11.0
MODIFIED 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

NOT TO SCALE

ADA LIBRARY TYPICAL

PASSING AREAS AND BUS STOPS

TYPICAL SECTION SHEET 9 OF 10



DATE PREPARED: 2/2/2026

ROUTE: CC MO

DISTRICT: SW SHEET NO. 2

COUNTY: CHRISTIAN

JOB NO.: J8S0736E

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A38612

DESCRIPTION

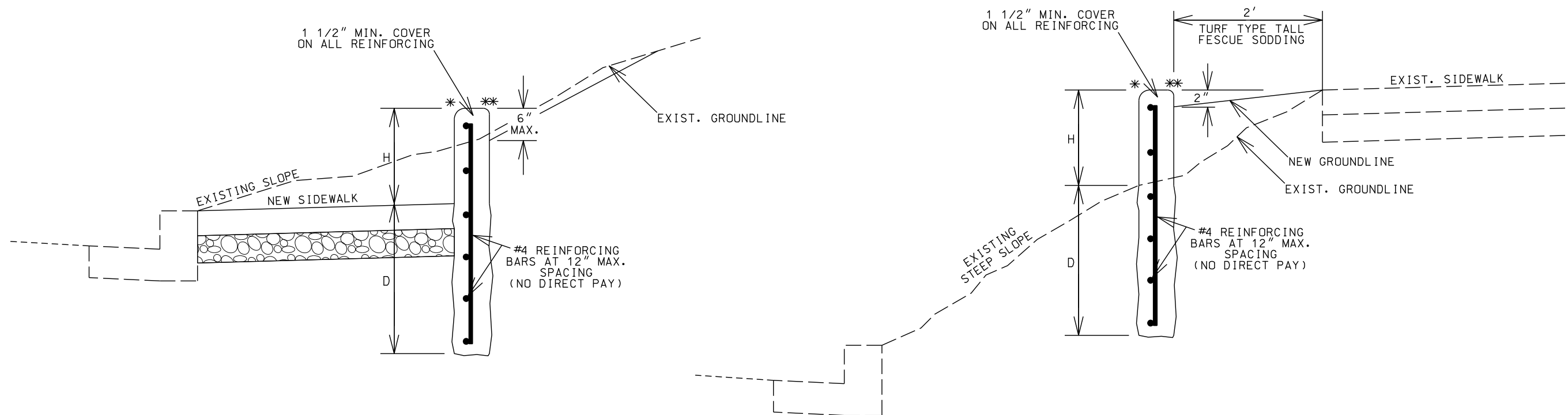
DATE



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

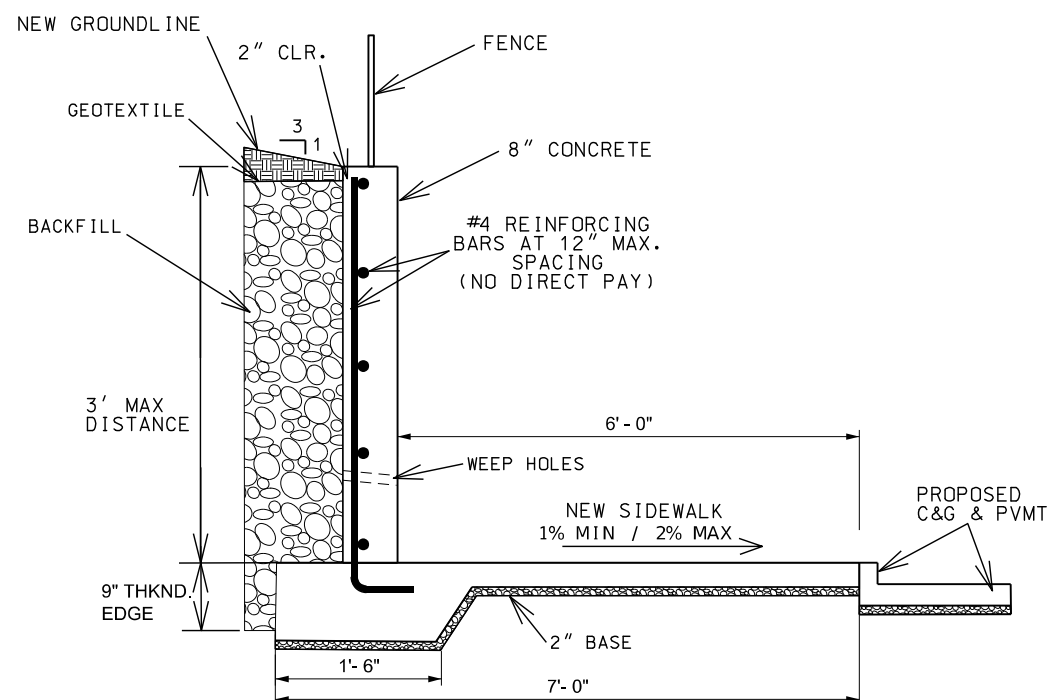
\* ROUND TO 3/4" RADIUS  
 \*\* ROUND TO 1/4" RADIUS  
 H = 2'-6" MAX. (30")  
 D = BURY DEPTH (FORMING NOT REQUIRED)  
 THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.  
 VERTICAL REINFORCING LENGTHS VARY AS NEEDED.  
 DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

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

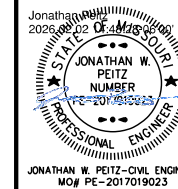


NOT TO SCALE

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



NOT TO SCALE



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

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

**olsson**

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF  
 AUTHORITY NO. 001592

ADA LIBRARY TYPICAL  
 MODIFIED S-CURB  
 TYPICAL SECTION  
 SHEET 10 OF 10

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

REMOVAL OF IMPROVEMENTS				
SHEET NO.	STA.	STA.	LOCATION	DESCRIPTION
4	173+78.77	173+78.81	ROUTE CC RT.	11' SAWCUT
4 - 6	173+78.77	184+98.55	ROUTE CC RT.	1126' SAWCUT
4 - 6	173+78.77	184+98.55	ROUTE CC RT.	1333 SY PAVEMENT
4	176+78.54	177+56.46	ROUTE CC RT.	78' 18" CMP
4	177+02.35	177+03.58	ROUTE CC RT.	38' CURB
4	177+32.71	177+33.76	ROUTE CC RT.	35' CURB
4	177+37.98		ROUTE CC RT.	SIGN
4	177+75.75		ROUTE CC LT.	SIGN
5	180+68.02		ROUTE CC RT.	SIGN
5	180+75.70	181+12.77	ROUTE CC RT.	37' 18" CMP
5	180+77.88		ROUTE CC RT.	LIGHT POLE
5	180+97.76		ROUTE CC RT.	PULL BOX
5	181+05.88		ROUTE CC RT.	SIGNAL POST
5	181+12.77		ROUTE CC RT.	MANHOLE
5	181+12.77	181+31.38	ROUTE CC RT.	19' 18" RCP
5	181+12.77	181+31.38	ROUTE CC RT.	18' 18" CMP
5	181+15.66		ROUTE CC RT.	PULL BOX
5	181+19.37	181+28.67	ROUTE CC RT.	48' CURB
5	181+31.38	181+61.38	ROUTE CC RT.	32' PLUG 18" RCP
5	181+38.38	181+61.38	ROUTE CC RT.	31' PLUG 18" CMP
5	181+61.38	182+11.73	ROUTE CC RT.	53' 18" RCP
5	181+61.38	182+14.02	ROUTE CC RT.	54' 18" CMP
5	181+80.41	182+11.30	ROUTE CC RT.	FENCE
5	181+81.57	181+99.86	ROUTE CC RT.	CINDER BLOCKS
5	181+85.51		ROUTE CC RT.	SIGN
5	181+86.18		ROUTE CC RT.	RISER
5	181+86.92		ROUTE CC RT.	PULL BOX
5 - 6	182+00.47	184+97.96	ROUTE CC RT.	305' CURB
5 - 6	182+09.91	185+21.55	ROUTE CC RT.	GUARD RAIL
5	182+09.93		ROUTE CC RT.	FLUME
5	182+10.77		ROUTE CC RT.	CONOCO SIGN
5	182+11.73	182+99.32	ROUTE CC RT.	83' 18" CMP
5	182+11.73		ROUTE CC RT.	MANHOLE
5 - 6	182+99.32	183+49.93	ROUTE CC RT.	48' 18" CMP
6	183+49.93		ROUTE CC RT.	MANHOLE
6	183+49.93	184+00.01	ROUTE CC RT.	47' 18" CMP
6	184+00.01		ROUTE CC RT.	MANHOLE
6	184+00.01	184+49.62	ROUTE CC RT.	48' 18" CMP
6	184+14.01		ROUTE CC RT.	LIGHT POLE
6	184+49.62		ROUTE CC RT.	MANHOLE
6	184+49.62	184+79.81	ROUTE CC RT.	29' 18" CMP
5, 8	0+38.00	2+35.33	22ND ST CONST. BL.	754 SY PAVEMENT
5, 8	1+59.30	1+95.95	22ND ST CONST. BL.	36' SAWCUT
5, 8	1+92.56	2+25.33	22ND ST CONST. BL.	114' SAWCUT
5, 8	2+15.40	2+25.33	22ND ST CONST. BL.	10' SAWCUT
1 LUMP SUM				

COMPACTING IN CUT				
SHEET NO.	STA.	STA.	LOCATION	COMPACTING IN CUT (STA)
4-8	173+78.77	184+98.53	ROUTE CC	11.2
4-8	0+00.00	2+15.56	22ND ST CONST. BL.	2.2
TOTAL				13.4

**MOBILIZATION**  
1 LUMP SUM

**CONTRACTOR FURNISHED SURVEYING & STAKING**  
1 LUMP SUM

**CLEARING AND GRUBBING**  
1 ACRE

**ADDITIONAL MOBILIZATION FOR SEEDING**  
2 EACH

SIDEWALK, CURB RAMP, TRUNCATED DOMES, TYPE 1 AGGREGATE									
SHEET NO.	STA.	STA.	LOCATION	CONCRETE SIDEWALK		CONCRETE CURB RAMP (SY)	TRUNCATED DOMES (SF)	4" TYPE 1 AGGREGATE (SY)	
				4" THICK (SY)	8" THICK (SY)				
4	177+40.26	177+65.13	RTE CC RT.			16.8		17	
4	177+41.03	177+50.13	RTE CC RT.				15		
4 - 5	177+65.13	180+82.07	RTE CC RT.	209.7				210	
5, 8	180+78.20	180+99.36	RTE CC RT.			17.3		17	
5, 8	180+87.72	180+93.45	RTE CC RT.				12		
5, 8	181+07.55	181+13.84	RTE CC RT.				12		
5, 8	181+07.79	181+14.15	RTE CC RT.				12		
5, 8	181+17.88	181+19.88	RTE CC RT.				12		
5, 8	181+18.93	181+25.28	RTE CC LT.				12		
5, 8	0+74.48	1+96.13	22ND ST. CONST. BL LT.		74.7			75	
5, 8	0+79.71	1+77.82	22ND ST CONST. BL RT.	68.6				69	
5, 8	1+77.81	1+89.09	22ND ST CONST. BL RT.			9.6		10	
5, 8	1+84.72	1+86.69	22ND ST CONST. BL RT.				12		
5, 8	1+96.13	2+10.17	22ND ST CONST. BL LT.			8.5		9	
5, 8	2+04.09	2+09.48	22ND ST CONST. BL LT.				11		
5, 8	181+65.38	181+67.38	RTE CC RT.				12		
5	181+74.37	181+76.37	RTE CC LT.				12		
5	181+83.64	181+89.64	RTE CC LT.				12		
5, 8	181+83.64	181+89.64	RTE CC RT.				12		
5, 8	181+88.85	181+94.58	RTE CC RT.				12		
5	181+91.28	181+97.53	RTE CC LT.				12		
5, 8	182+00.20	182+20.56	RTE CC RT.			17.3		17	
5, 8	182+05.82	182+11.42	RTE CC RT.				12		
5 6 8	182+16.15	184+98.19	RTE CC RT.	188.7				189	
TOTALS				467.0	74.7	69.5	182	613	

CONCRETE CURB & GUTTER							
SHEET NO.	STA.	STA.	LOCATION	CONCRETE CURB & GUTTER (LF)		CONCRETE FLUME (LF)	6" TYPE 5 AGGREGATE (SY)
				2 FT CONCRETE CURB & GUTTER (LF)	TYPE B CURB AND GUTTER (LF)		
4	0+37.25	0+41.75	23RD ST CL LT		16		8
4	0+37.55	0+87.29	23RD ST CL RT		66		33
4	0+47.75	0+87.25	23RD ST CL LT		41		21
4 - 5	177+62.01	180+89.00	RTE CC RT		333		167
5, 8	0+67.85	2+03.25	22ND ST CONST. BL. LT.		140		70
5, 8	0+73.42	1+78.65	22ND ST CONST. BL. RT.		114		57
5, 8	1+42.30	1+57.33	22ND ST CONST. BL. LT.			15	
5, 8	1+56.94	1+97.44	22ND ST CONST. BL. LT.	46			18
5, 8	2+09.83	2+13.41	22ND ST CONST. BL. LT.		12		6
5 - 8	182+09.76	184+98.19	RTE CC RT		296		148
TOTALS				46	1018	15	528

CONCRETE MEDIAN					
SHEET NO.	STA.	STA.	LOCATION	CONCRETE MEDIAN STRIP (SY)	
				6" CONC. MEDIAN STRIP (SY)	8" CONC. MEDIAN STRIP (SY)
4 & 5	176+34.36	180+78.61	RTE CC	450.0	
5	180+96.01	181+08.09	RTE CC RT		8.4
5	181+06.23	181+08.84	RTE CC RT		0.4
5	181+12.56	181+19.88	RTE CC RT		3.2
5	181+13.28	181+19.88	RTE CC RT		4.0
5	181+65.38	181+91.08	RTE CC RT		63.0
5	181+65.38	181+83.64	RTE CC RT		8.0
5	181+74.37	181+92.16	RTE CC LT		28.5
5	181+74.38	181+83.64	RTE CC LT		7.1
5	181+89.64	181+99.16	RTE CC RT		6.5
5	181+89.64	182+01.36	RTE CC LT		21.5
TOTALS				450.0	150.6

PAVED APPROACH					
SHEET NO.	STA.	STA.	LOCATION	PAVED APPROACH (SY)	
				8" PAVED APPROACH (SY)	4" TYPE 1 AGGREGATE (SY)
5	1+78.28	1+92.81	22ND ST CONST. BL.	10.9	11
TOTALS				10.9	11

QUANTITIES SHEET 1 OF 8

DATE PREPARED: 2/2/2026  
ROUTE: CC DISTRICT: SW STATE: MO SHEET NO.: 3  
COUNTY: CHRISTIAN  
JOB NO.: J8S0736E  
CONTRACT ID.:  
PROJECT NO.:  
BRIDGE NO.: A38612

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

SHEET NO.	STA.	STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	ROCK LINING (CY)	TYPE 3 ROCK DITCH LINER 22 IN. THICK		BEDDING MATERIAL 8 IN. THICK (CY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)
								FURNISHING (CY)	PLACING (CY)		
4	176+65.71	176+83.25	RTE CC RT	*	*	1	4				
4	177+49.55	177+71.91	RTE CC RT	*	*	2	22				
5	179+22.20	179+37.21	RTE CC RT	*	*	1	4				
5 , 8	181+89.23	183+13.17	RTE CC RT	*	*	1.83		120	120	44	131
6	184+00.93	184+39.69	RTE CC RT	*	*	1.83		28	28	10	31
6	184+19.09	184+98.25	RTE CC RT	*	*	1.83		106	106	38	115
TOTALS							30	254	254	92	277

\* VARIES, SEE PLAN SHEETS.

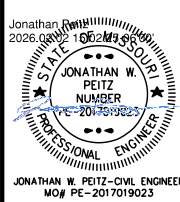
SHEET NO.	STA.	STA.	LOCATION	COOL SEASON GRASS SEEDING (AC)	MULCHING (AC)	TURF TYPE TALL FESCUE SODDING (SY)
4 - 5	177+34.05	179+89.94	RTE CC RT	0.2	0.2	
4 - 5	177+47.08	177+94.76	RTE CC RT			19
5 , 8	179+25.89	181+18.84	RTE CC RT			713
5 , 8	181+86.20	184+98.25	RTE CC RT	0.7	0.7	
8	1+34.98	2+03.25	22ND ST CONST. BL. LT.			19
8	1+36.00	2+13.41	23rd ST CONST. BL. LT.			35
8	1+58.86	1+86.27	22ND ST CONST. BL. RT.			7
TOTALS				1.1	1.1	793

SHEET NO.	STA.	STA.	LOCATION	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EA)	MGS HEIGHT AND BLOCK TRANSITION (EA)							
							5 - 6	183+03.90	183+55.00	RTE CC RT		1	
							6	183+55.00	185+04.67	RTE CC RT	150		
6	185+04.67	185+29.51	RTE CC RT			1							
TOTALS				150	1	1							

SHEET NO.	STA.	STA.	LOCATION	OPTIONAL PAVEMENT (SY)	6" TYPE 5 AGGREGATE (SY)						
						4 - 8	173+78.77	184+98.55	RTE CC RT	2293	2293
						5 , 8	0+34.25	2+25.33	22ND ST CONST. BL.	1465	1465
TOTALS				3758	3758						

SHEET NO.	XS SHEET NO.	STA.	STA.	LOC.	UNCLASSIFIED EXCAVATION (CY)	EMBANKMENT IN PLACE (CY)	COMPACTING EMBANKMENT (CY)	CLASS 2 EXCAVATION		REMARKS
								(CY)	(CY)	
4 - 6	1 - 23	173+75.00	185+00.00	RTE CC	4552	6600	3642			
5 , 8	24 - 28	0+40.82	2+15.56	22ND ST CONST. BL.	533	3696	426			
6		183+99.85	184+25.91	RTE CC RT				18	54	MSE WALL
TOTALS					5085	10296	4068	18	54	

QUANTITIES SHEET 2 OF 8



DATE PREPARED  
2/2/2026  
ROUTE CC STATE MO  
DISTRICT SW SHEET NO. 3  
COUNTY CHRISTIAN  
JOB NO. J8S0736E  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO. A38612

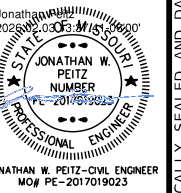
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

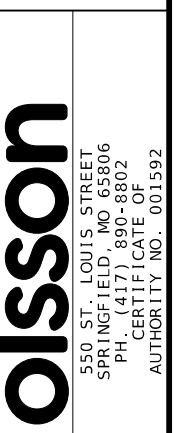
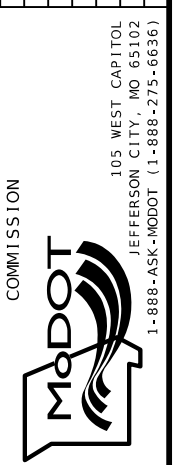
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

TEMPORARY EROSION CONTROL														
SHEET NO.	STA.	LOCATION	STA.	LOCATION	PHASE	CURB INLET CHECK (EACH)	ALTERNATE DITCH CHECK (LF)	ROCK DITCH CHECK (LF)	SEDIMENT TRAP		SILT FENCE (FT)	EROSION CONTROL BLANKET (SY)	TURF REINFORCEMENT MAT (SY)	SEDIMENT REMOVAL (CY)
									EXCAVATION (CY)	ROCK (CY)				
31	175+14.03	RTE CC RT.	175+21.68	RTE CC RT.	INITIAL		42							3
33	186+91.79	RTE CC RT.			INITIAL				5.0	5.0				1
34	175+55.16	RTE CC RT.	176+66.16	RTE CC RT.	CONSTRUCTION		56							4
34	177+04.61	RTE CC RT.			CONSTRUCTION	1								1
34	177+32.27	RTE CC RT.			CONSTRUCTION	1								1
34	177+70.71	RTE CC RT.			CONSTRUCTION		14							1
34	177+75.15	RTE CC RT.			CONSTRUCTION	1								1
34 - 35	177+79.90	RTE CC RT.	179+26.90	RTE CC RT.	CONSTRUCTION		126							9
35	179+35.28	RTE CC RT.			CONSTRUCTION	1								1
35	179+76.43	RTE CC RT.	180+36.26	RTE CC RT.	CONSTRUCTION		42							3
35	180+36.39	RTE CC RT.			CONSTRUCTION	1								1
35	180+75.95	RTE CC RT.			CONSTRUCTION	1								1
35	0+93.11	22ND ST CONST. BL. RT.	1+00.95	22ND ST CONST. BL. RT.	CONSTRUCTION		28							2
35	1+55.69	22rd ST CONST. BL. RT.			CONSTRUCTION	1								1
35	181+12.06	RTE CC RT.			CONSTRUCTION	1								1
35	181+25.10	RTE CC RT.			CONSTRUCTION	1								1
35	181+77.15	RTE CC RT.			CONSTRUCTION	1								1
35	181+84.46	RTE CC RT.			CONSTRUCTION	1								1
35 - 36	181+94.73	RTE CC RT.	183+88.48	RTE CC RT.	CONSTRUCTION			434						31
35	182+30.43	RTE CC RT.			CONSTRUCTION	1								1
35	182+85.40	RTE CC RT.			CONSTRUCTION	1								1
35	183+28.83	RTE CC RT.			CONSTRUCTION	1								1
36	183+57.44	RTE CC RT.	184+98.25	RTE CC RT.	CONSTRUCTION					161				2
36	183+77.40	RTE CC RT.			CONSTRUCTION	1								1
36	184+21.91	RTE CC RT.			CONSTRUCTION	1								1
36	184+31.57	RTE CC RT.	184+78.44	RTE CC RT.	CONSTRUCTION			56						4
36	184+69.04	RTE CC RT.			CONSTRUCTION	1								1
36	185+00.04	RTE CC RT.			CONSTRUCTION	1								1
37	175+00.00	RTE CC RT.	177+03.08	RTE CC RT.	FINAL						619			
37	175+00.00	RTE CC RT.	176+74.46	RTE CC RT.	FINAL							188		
37 - 38	177+34.01	RTE CC RT.	179+37.25	RTE CC RT.	FINAL						455			
37 - 38	177+56.21	RTE CC RT.	179+33.06	RTE CC RT.	FINAL							174		
38 - 40	181+86.20	RTE CC RT.	184+98.25	RTE CC RT.	FINAL						2930			
39	181+86.20	RTE CC RT.	184+98.25	RTE CC RT.	FINAL							227		
TOTAL						18	266	490	5.0	5.0	161	4004	589	75



DATE PREPARED	2/3/2026	
ROUTE	CC	MO
DISTRICT	SW	SHEET NO. 3
COUNTY	CHRISTIAN	
JOB NO.	J8S0736E	
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.	A38612	

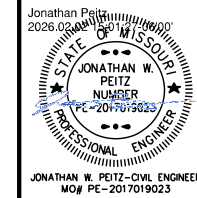
DATE	DESCRIPTION



QUANTITIES SHEET 3 OF 8

PRECAST DROP INLET													
SHEET NO.	STRUCTURE NO.	LOCATION	STATION	OFFSET	TYPE T (5'X3') (LF)	TYPE S-1 INLET (5'X3') (LF)	GRATE AND BEARING PLATES (5'X3') (EA)	MANHOLE 48" (LF)	MANHOLE FRAME & COVER		CLASS 3 EXC. (CY.)	PIPE OPENINGS	REMARKS
									TYPE 3 (EA)	TYPE 4 (EA)			
53	177T1	RTE CC	177+02.51	67.54 RT	5.88				1		17	2-30"	PLUG PICKHOLES
53	177T2	RTE CC	177+34.51	67.25 RT	6.04				1		17	2-30"	PLUG PICKHOLES
53, 54	177S1	RTE CC	177+74.93	59.11 RT		4.16	1				18	1-15", 1-30"	
54	177T3	RTE CC	177+75.04	37.38 RT	5.37				1		14	2-15"	PLUG PICKHOLES
54	178T1	RTE CC	178+60.67	47.66 RT	4.67				1		17	2-15"	PLUG PICKHOLES
54	179T1	RTE CC	179+35.44	48.76 RT	5.72				1		16	1-15"	PLUG PICKHOLES
55	180T1	RTE CC	180+36.57	48.75 RT	5.04				1		7	1-15"	PLUG PICKHOLES
55	180T2	RTE CC	180+75.05	59.60 RT	6.27				1		1	2-15"	PLUG PICKHOLES
55, 56	181T1	RTE CC	181+10.70	96.16 RT	8.79				1		16	1-15", 1-18", 2-24"	PLUG PICKHOLES
55	181T2	22ND ST CONST. BL.	1+48.24	23.60 RT	5.89				1		19	1-18"	PLUG PICKHOLES
56	180S1	RTE CC	180+77.80	97.10 RT		3.5	1				11	1-24"	
56, 58	181T4	RTE CC	181+86.56	98.74 RT	10.21				1		17	2-18", 2-24"	PLUG PICKHOLES
57	182MH1	RTE CC	182+43.12	125.00 RT				9.91		1	15	2-24"	
57	183S1	RTE CC	183+05.07	126.40 RT		6.46	1				6	2-24"	
58	181T3	22ND ST CONST. BL.	1+31.88	32.90 LT	5.81				1		15	1-18"	PLUG PICKHOLES
58	182T1	RTE CC	181+31.69	47.83 RT	7.92				1		4	2-18"	PLUG PICKHOLES
59	182T2	RTE CC	182+86.02	36.75 RT	7.18				1		19	2-18"	PLUG PICKHOLES
59	183T1	RTE CC	183+29.48	39.75 RT	6.46				1		20	2-18"	PLUG PICKHOLES
59	183T2	RTE CC	183+77.64	36.78 RT	6.3				1		23	2-18"	PLUG PICKHOLES
59	184T1	RTE CC	184+22.17	36.87 RT	6.4				1		24	2-18"	PLUG PICKHOLES
59	184T2	RTE CC	184+69.56	37.03 RT	6.53				1		24	2-18"	PLUG PICKHOLES
					TOTALS	110.48	14.12	3	9.91	17	320		
					USE	125		3	10	17	320		

PIPE CULVERTS															
SHEET NO.	FROM STRUCTURE NO.	STA.	LOCATION	TO STRUCTURE NO.	STA.	LOCATION	GROUP A PIPE				GROUP A F.E.S.		TYPE A PIPE COLLAR (EACH)	CLASS 3 EXC. (CY.)	
							15 IN. (FT.)	18 IN. (FT.)	24 IN. (FT.)	30 IN. (FT.)	18 IN. (EA)	30 IN. (EA)			
53	177T1	177+02.51	RTE CC RT	FES 176F1	176+82.03	RTE CC RT				12		1		15	
53	177T2	177+34.51	RTE CC RT	177T1	177+02.51	RTE CC RT				33				27	
53	177S1	177+74.93	RTE CC RT	177T2	177+34.51	RTE CC RT				36				36	
54	177T3	177+75.04	RTE CC RT	177S1	177+74.93	RTE CC RT	16							9	
54	178T1	178+60.67	RTE CC RT	177T3	177+75.04	RTE CC RT	81							46	
54	179T1	179+35.44	RTE CC RT	178T1	178+60.67	RTE CC RT	70							47	
55	179PC1	179+34.21	RTE CC RT	FES 179F1	179+34.70	RTE CC RT		6			1	1		10	
55	180T1	180+36.57	RTE CC RT	180T2	180+75.05	RTE CC RT	34							3	
55	180T2	180+75.05	RTE CC RT	181T1	181+10.70	RTE CC RT	45							3	
55	181T2	1+48.24	22ND ST CONST. B.L RT.	181T1	181+10.70	RTE CC RT		49						25	
56	180S1	180+77.80	RTE CC RT	181T1	181+10.70	RTE CC RT			29					17	
56	181T1	181+10.70	RTE CC RT	181T4	181+86.56	RTE CC RT			77					109	
56 - 57	181T4	181+86.56	RTE CC RT	182MH1	182+43.12	RTE CC RT			57					11	
57	182MH1	182+43.12	RTE CC RT	183S1	183+05.07	RTE CC RT			59					30	
57	183S1	183+05.07	RTE CC RT	DOUBLE 13'X13' RCB	182+17.02	RTE CC RT			26					1	
58	181T3	1+31.88	22ND ST CONST. BL. LT.	181T4	181+86.56	RTE CC RT		28						12	
58	182T1	181+31.69	RTE CC RT	181T4	181+86.56	RTE CC RT		62						0	
58 - 59	182T2	182+86.02	RTE CC RT	182T1	181+31.69	RTE CC RT		50						19	
59	183T1	183+29.48	RTE CC RT	182T2	182+86.02	RTE CC RT		39						25	
59	183T2	183+77.64	RTE CC RT	183T1	183+29.48	RTE CC RT		43						37	
59	184T1	184+22.17	RTE CC RT	183T2	183+77.64	RTE CC RT		40						36	
59	184T2	184+69.59	RTE CC RT	184T1	184+22.17	RTE CC RT		43						40	
59	184PC1	184+79.81	RTE CC RT	184T2	184+69.59	RTE CC RT		8				1		6	
							TOTALS	246	368	248	81	1	1	2	564



DATE PREPARED  
2/2/2026

ROUTE CC STATE MO

DISTRICT SW SHEET NO. 3

COUNTY CHRISTIAN

JOB NO. J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A38612

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

**olsson**

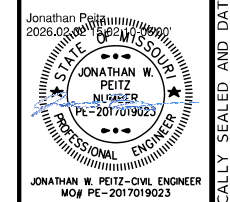
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

QUANTITIES SHEET 4 OF 8

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

COMBINED QUANTITY TABLE

SHEET NO.	STA.	LOCATION	STA.	LOCATION	4" TYPE 1 AGGREGATE (SY)	6" TYPE 5 AGGREGATE (SY)	CLASS 3 EXC. (CY.)	REMARKS
4 - 8	173+78.77	RTE CC RT	184+98.55	RTE CC RT		2293		OPTIONAL PAVEMENT TABLE
53	177+02.51	RTE CC					17	PRECAST DROP INLET TABLE
53	177+02.51	RTE CC RT	176+82.03	RTE CC RT			15	PIPE CULVERTS TABLE
53	177+34.51	RTE CC					17	PRECAST DROP INLET TABLE
53	177+34.51	RTE CC RT	177+02.51	RTE CC RT			27	PIPE CULVERTS TABLE
4	177+40.26	RTE CC RT.	177+65.13	RTE CC RT.	17			SIDEWALK TABLE
4 - 5	177+62.01	RTE CC RT	180+89.00	RTE CC RT		167		CURB & GUTTER TABLE
4 - 5	177+65.13	RTE CC RT.	180+82.07	RTE CC RT.	210			SIDEWALK TABLE
53 , 54	177+74.93	RTE CC					18	PRECAST DROP INLET TABLE
53	177+74.93	RTE CC RT	177+34.51	RTE CC RT			36	PIPE CULVERTS TABLE
54	177+75.04	RTE CC					14	PRECAST DROP INLET TABLE
54	177+75.04	RTE CC RT	177+74.93	RTE CC RT			9	PIPE CULVERTS TABLE
54	178+60.67	RTE CC					17	PRECAST DROP INLET TABLE
54	178+60.67	RTE CC RT	177+75.04	RTE CC RT			46	PIPE CULVERTS TABLE
55	179+34.21	RTE CC RT	179+34.70	RTE CC RT			10	PIPE CULVERTS TABLE
54	179+35.44	RTE CC					16	PRECAST DROP INLET TABLE
54	179+35.44	RTE CC RT	178+60.67	RTE CC RT			47	PIPE CULVERTS TABLE
55	180+36.57	RTE CC					7	PRECAST DROP INLET TABLE
55	180+36.57	RTE CC RT	180+75.05	RTE CC RT			3	PIPE CULVERTS TABLE
55	180+75.05	RTE CC					1	PRECAST DROP INLET TABLE
55	180+75.05	RTE CC RT	181+10.70	RTE CC RT			3	PIPE CULVERTS TABLE
5 , 8	0+34.25	22ND ST CONST. BL.	2+25.33	22ND ST CONST. BL.		1465		OPTIONAL PAVEMENT TABLE
4	0+36.75	23RD ST CL LT	0+41.75	23RD ST CL LT		8		CURB & GUTTER TABLE
4	0+37.55	23RD ST CL RT	0+87.25	23RD ST CL RT		33		CURB & GUTTER TABLE
4	0+47.75	23RD ST CL LT	0+87.25	23RD ST CL LT		21		CURB & GUTTER TABLE
5 , 8	0+67.51	22ND ST CONST. BL. LT.	2+03.25	22ND ST CONST. BL. LT.		70		CURB & GUTTER TABLE
5 , 8	0+73.42	22ND ST CONST. BL. RT.	1+86.27	22ND ST CONST. BL. RT.		57		CURB & GUTTER TABLE
5 , 8	0+74.48	22ND ST. CONST. BL LT.	1+96.13	22ND ST. CONST. BL LT.	75			SIDEWALK TABLE
5 , 8	0+79.71	22ND ST CONST. BL RT.	1+77.82	22ND ST CONST. BL RT.	69			SIDEWALK TABLE
58	1+31.88	22ND ST CONST. BL.					16	PRECAST DROP INLET TABLE
58	1+31.88	22ND ST CONST. BL. LT.	181+86.56	RTE CC RT			12	PIPE CULVERTS TABLE
55	1+48.24	22ND ST CONST. BL.					19	PRECAST DROP INLET TABLE
55	1+48.24	22ND ST CONST. B.L RT.	181+10.70	RTE CC RT			25	PIPE CULVERTS TABLE
5 , 8	1+56.94	22ND ST CONST. BL. LT.	1+97.39	22ND ST CONST. BL. LT.		18		CURB & GUTTER TABLE
5 , 8	1+77.81	22ND ST CONST. BL RT.	1+89.09	22ND ST CONST. BL RT.	10			SIDEWALK TABLE
5	1+78.28	22ND ST CONST. BL.	1+92.81	22ND ST CONST. BL.	11			PAVED APPROACH TABLE
5 , 8	1+96.13	22ND ST CONST. BL LT.	2+10.17	22ND ST CONST. BL LT.	9			SIDEWALK TABLE
56	180+77.80	RTE CC					11	PRECAST DROP INLET TABLE
56	180+77.80	RTE CC RT	181+10.70	RTE CC RT			17	PIPE CULVERTS TABLE
5 , 8	180+78.20	RTE CC RT.	180+99.36	RTE CC RT.	17			SIDEWALK TABLE
55 , 56	181+10.70	RTE CC					17	PRECAST DROP INLET TABLE
56	181+10.70	RTE CC RT	181+86.56	RTE CC RT			109	PIPE CULVERTS TABLE
58	181+31.69	RTE CC					4	PRECAST DROP INLET TABLE
56 , 58	181+86.56	RTE CC					17	PRECAST DROP INLET TABLE
56 - 57	181+86.56	RTE CC RT	182+43.12	RTE CC RT			11	PIPE CULVERTS TABLE
5 , 8	182+00.20	RTE CC RT.	182+20.56	RTE CC RT.	17			SIDEWALK TABLE
5 - 8	182+09.41	RTE CC RT	184+98.25	RTE CC RT		148		CURB & GUTTER TABLE
5 6 8	182+16.49	RTE CC RT.	184+98.19	RTE CC RT.	189			SIDEWALK TABLE
57	182+43.12	RTE CC					15	PRECAST DROP INLET TABLE
57	182+43.12	RTE CC RT	183+05.07	RTE CC RT			30	PIPE CULVERTS TABLE
59	182+86.02	RTE CC					19	PRECAST DROP INLET TABLE
58 - 59	182+86.02	RTE CC RT	181+31.69	RTE CC RT			19	PIPE CULVERTS TABLE
57	183+05.07	RTE CC					6	PRECAST DROP INLET TABLE
57	183+05.07	RTE CC RT	182+17.02	RTE CC RT			1	PIPE CULVERTS TABLE
59	183+29.48	RTE CC					20	PRECAST DROP INLET TABLE
59	183+29.48	RTE CC RT	182+86.02	RTE CC RT			25	PIPE CULVERTS TABLE
59	183+77.64	RTE CC					23	PRECAST DROP INLET TABLE
59	183+77.64	RTE CC RT	183+29.48	RTE CC RT			37	PIPE CULVERTS TABLE
59	184+22.17	RTE CC					24	PRECAST DROP INLET TABLE
59	184+22.17	RTE CC RT	183+77.64	RTE CC RT			36	PIPE CULVERTS TABLE
59	184+69.56	RTE CC					24	PRECAST DROP INLET TABLE
59	184+69.59	RTE CC RT	184+22.17	RTE CC RT			40	PIPE CULVERTS TABLE
59	184+79.81	RTE CC RT	184+69.59	RTE CC RT			6	PIPE CULVERTS TABLE
5 , 8	2+09.83	22ND ST CONST. BL. LT.	2+13.41	22ND ST CONST. BL. LT.		6		CURB & GUTTER TABLE
TOTAL					624	4286	886	



DATE PREPARED  
2/2/2026  
ROUTE  
CC STATE  
MO  
DISTRICT SHEET NO.  
SW 3  
COUNTY  
CHRISTIAN  
JOB NO.  
J8S0736E  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.  
A38612

DATE	DESCRIPTION



550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

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

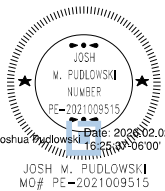
PAVEMENT MARKING

STA.	STA.	LOCATION	CLASS 2 PAVEMENT MARKING PAINT, 25-MIL, TYPE L BEADS					PREFORMED THERMOPLASTIC				REMARKS	
			4"	6"	MEDIAN CURB (8" TOP, 6" FACE) SOLID YELLOW (L.F.)	6"	MEDIAN CURB (8" TOP, 8" FACE) SOLID WHITE (L.F.)	24"	24"	LEFT/RIGHT	24"X36" YIELD LINE TRIANGLES WHITE (EA.)		
			YELLOW (L.F.)	YELLOW (L.F.)	WHITE (L.F.)	WHITE (L.F.)	YELLOW (L.F.)	WHITE (L.F.)	ARROW (EA.)				
173+78	176+33	ROUTE CC	64									INTERMITTENT YELLOW	
173+78	176+33	ROUTE CC	255									SOLID YELLOW	
173+78	176+76	ROUTE CC				297						EDGE LINE	
175+00	176+33	ROUTE CC	34									INTERMITTENT YELLOW	
175+00	176+33	ROUTE CC	134									SOLID YELLOW	
174+99	177+76	ROUTE CC				44						DOTTED WHITE	
177+76	180+77	ROUTE CC		915								EDGE LINE (MEDIAN)	
176+96	181+00	ROUTE CC				411						EDGE LINE	
177+10	180+81	ROUTE CC				93						INTERMITTENT WHITE	
177+18	177+34	ROUTE CC							16			STOP BAR	
177+67	180+97	ROUTE CC				82						INTERMITTENT WHITE	
178+09	180+97	ROUTE CC				287						LANE LINE	
178+84		ROUTE CC								1		LT. TURN	
180+09		ROUTE CC								1		LT. TURN	
179+34		ROUTE CC								1		RT. TURN	
180+09		ROUTE CC								1		RT. TURN	
179+70	180+85	ROUTE CC				252						LANE LINE	
180+81	181+30	ROUTE CC				48						EDGE LINE (MEDIAN)	
180+84		ROUTE CC							14			STOP BAR	
180+97		ROUTE CC							24			STOP BAR	
0+46	1+81	22ND ST		187								EDGE LINE	
180+75	180+83	ROUTE CC								6		YIELD TRIANGLES	
181+08	181+22	ROUTE CC								6		YIELD TRIANGLES	
180+93	181+02	ROUTE CC								5		YIELD TRIANGLES	
180+94	181+08	ROUTE CC							36			CROSSWALK	
181+11	181+22	ROUTE CC							108			CROSSWALK	
181+03	181+17	ROUTE CC							30			CROSSWALK	
181+21	181+64	ROUTE CC							66			CROSSWALK	
0+53		22ND ST							11			STOP BAR	
0+70		22ND ST							11			STOP BAR	
0+70	1+79	22ND ST	224									DOUBLE YELLOW	
0+53	1+79	22ND ST				130						LANE LINE	
0+96	1+79	22ND ST				83						LANE LINE	
180+85	181+22	ROUTE CC				106						EDGE LINE (MEDIAN)	
0+46		22ND ST							76			CROSSHATCH	
181+63	182+06	ROUTE CC				180						EDGE LINE (MEDIAN)	
1+49		22ND ST								1		LT. TURN	
1+49		22ND ST								1		RT. TURN	
181+90	182+00	ROUTE CC									5	YIELD TRIANGLES	
181+95	182+05	ROUTE CC							24			CROSSWALK	
181+87	181+87	ROUTE CC							108			CROSSWALK	
181+30	181+72	ROUTE CC							66			CROSSWALK	
181+96	182+04	ROUTE CC							30			CROSSWALK	
182+03	182+10	ROUTE CC									7	YIELD TRIANGLES	
182+42		ROUTE CC								1		RT. TURN	
182+06		ROUTE CC										STOP BAR	
182+11		ROUTE CC							24			STOP BAR	
181+72	182+79	ROUTE CC				271						EDGE LINE (MEDIAN)	
182+03	182+79	ROUTE CC							57			CROSSHATCH	
181+93	184+83	ROUTE CC				73						INTERMITTENT WHITE	
182+06	184+96	ROUTE CC				73						INTERMITTENT WHITE	
182+06	183+96	ROUTE CC				190						LANE LINE	
182+86		ROUTE CC								1		LT. TURN	
182+11	184+97	ROUTE CC	576									DOUBLE YELLOW	
184+10	184+97	ROUTE CC	174									DOUBLE YELLOW	
184+10		ROUTE CC							28			CROSSHATCH	
Island	Markings	ROUTE CC			1814			582				ISLAND MARKINGS	
Parking Lot	Markings	ROUTE CC				72						PARKING LOT LINES	
SUBTOTAL			1461	1102	1814		2692	582	28	715	8	29	
TOTAL			1461		2916			3274	28	715	8	29	

PAVEMENT MARKING REMOVALS

STA.	STA.	LOCATION	PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL (SYMBOLS)	REMARKS
			6207001	6207002	
173+78	176+33	ROUTE CC	488		ROUTE CC CENTERLINE
177+00	181+00	ROUTE CC	556		ROUTE CC WB
178+13	181+00	ROUTE CC	400	1	ROUTE CC EB
181+00	185+00	ROUTE CC	1082	1	ROUTE CC WB
184+00	185+00	ROUTE CC	31		ROUTE CC EB
TOTAL			2557	2	

QUANTITIES  
SHEET 6 OF 8



DATE PREPARED  
**2/2/2026**

ROUTE	CC	STATE	MO
DISTRICT	SW	SHEET NO.	3

COUNTY  
**CHRISTIAN**

JOB NO.  
**J8S0736E**


CONTRACT ID.

PROJECT NO.


BRIDGE NO.  
**A38612**

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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



550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

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

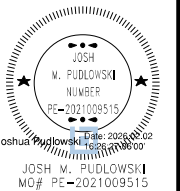
HIGHWAY LIGHTING										
SH. NUM.	POLE NO.	ROADWAY	STATION	OFFSET	BRACKET ARM 15 FT (EACH)	LIGHTING POLE 45 FT TYPE AT (EACH)	LED C LUMINAIRE (EACH)	POLE FOUNDATION 45 FT M.H. (EACH)	RELOCATED POLE (EACH)	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET (LF)
					9011115	9011062	9011313	9018245	9011010	9017110
41	LCC1-2	ROUTE CC	176+00.69	32.4' RT	1	1	1	1		130
41	LCC1-3	ROUTE CC	180+06.96	55.4' RT				1	1	130
41	LCC1-1	ROUTE CC	181+03.85	91.6' LT.			1	1	1	130
41	LCC1-4	ROUTE CC	181+86.52	134.3' RT			1	1	1	130
41	LCC2-1	ROUTE CC	182+50.02	68.2' LT.			1	1	1	130
41	LCC 3-1	ROUTE CC	184+14.23	46.36' RT			1	1	1	130
TOTAL					1	1	5	6	5	780

POWER CABLE & RIGID CONDUIT						
SH. NUM.	ROADWAY	FROM	TO	CTR. TO CTR.	CABLE, 2 AWG 1 CONDUCTOR (LF) 9017002	CONDUIT, 4 IN. RIGID PUSHED (LF) 9014004
41	ROUTE CC	PB2	PB3	129		129
41	ROUTE CC	PB4	PB5	124		124
41	ROUTE CC	PB6	PB7	92		92
41	ROUTE CC	PB8	PB9	50		50
TOTAL					0	395

CONCRETE PULL BOXES						
SH. NUM.	PULL BOX NO.	ROADWAY	STA.	OFF.	PULLBOX, CONCRETE STANDARD (EACH) 9016120	DRAIN TYPE
41	PB4	ROUTE CC	180+38.39	62.4' LT	1	1
41	PB5	ROUTE CC	180+31.95	55.3' RT	1	1
41	PB6	ROUTE CC	181+03.22	103.0' RT	1	1
41	PB7	ROUTE CC	181+96.03	108.2' RT	1	1
41	PB8	ROUTE CC	177+43.34	50.1' RT	1	1
41	PB9	ROUTE CC	176+93.76	53.0' RT	1	1
TOTAL					6	

CABLE AND CABLE CONDUIT						
SH. NUM.	CIRCUIT	FROM	TO	CTR. TO CTR.	CABLE-CONDUIT 1 IN., 2 CONDUCTORS (AND 1 BARE NEUTRAL) 8 AWG (LF) 9017407	TRENCHING, TYPE I (LF) 9015010
41	1	LCC1-2	PB9	95	106	95
41	1	PB8	PB5	289	299	289
41	1	PB4	LCC1-1	71	82	71
41	2	PB1	LCC2-1	26	37	26
41	1	PB5	PB6	72	84	72
41	1	PB7	LCC1-4	27	32	27
42	3	LCC3-1	PB10	245	256	245
SUBTOTAL					896	825
5% FOR SNAKING					45	41
TOTAL					950	870

POWER SUPPLY AND BASE MOUNTED CONTROL STATION						
SH. NUM.	ROADWAY	STA.	OFF.	POWER SUPPLY ASSEMBLY, TYPE 2, 240/120 VOLT SERVIE, LIGHTING ONLY (EACH) 9018612	BASE MOUNTED CONTROL STATION (240 VOLT-4 CIRCUIT) (EACH) 9012230	REMARKS
41	ROUTE CC	EXISTING	-	-	-	-
TOTAL						X



DATE PREPARED

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	3
COUNTY	
CHRISTIAN	
JOB NO.	
J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A38612	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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

EFFECTIVE: 07-01-2024																																
WARNING SIGNS										GUIDE SIGNS												DATE		DESCRIPTION								
SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION		SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION		ITEM NUMBER	TOTAL QTY	DESCRIPTION		ROUTE	STATE	DISTRICT	SHEET NO.					
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)		E05-1	36X48	12.00						GORE EXIT		6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)										
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)		E05-2	48X36	12.00						EXIT OPEN		6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)										
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)		E05-2a	48X36	12.00						EXIT CLOSED		6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)										
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)		GO20-1	60X24	10.00	2.00	20.00			1	ROAD WORK NEXT XX MILES		6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)										
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)		GO20-2	48X24	8.00	16.00	128.00			26	END ROAD WORK		6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)										
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)		GO20-4	36X18	4.50						PILOT CAR FOLLOW ME		6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)										
WO1-4L	48X48	16.00	1.00	16.00			15	REVERSE CURVE (SYMBOL LEFT)		GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW		6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)										
WO1-4R	48X48	16.00	1.00	16.00			15	REVERSE CURVE (SYMBOL RIGHT)		GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW		6122020		REPLACEMENT SAND BARREL										
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)		GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)		6122030		IMPACT ATTENUATOR (RELOCATION)										
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)		MO4-8a	24X18	3.00						END DETOUR		6123001		TRUCK MOUNTED ATTENUATOR (TMA)										
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)		MO4-9L	48X36	12.00						DETOUR (LEFT)		6161008		ADVANCED WARNING RAIL SYSTEM										
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)		MO4-9R	48X36	12.00						DETOUR (RIGHT)		6161012		BUOYS (BOATS KEEP OUT)										
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)		MO4-9P	48X12	4.00						STREET NAME (PLAQUE)		6161013		BUOYS (NO WAKE)										
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)		MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)		6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)										
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)		MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)		6161025	208	CHANNELIZER (TRIM LINE)										
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)		REGULATORY SIGNS										6161030	10	TYPE III MOVEABLE BARRICADE										
WO1-8	18X24	3.00						CHEVRON (SYMBOL)		R1-1	48X48	13.25						STOP		6161033		DIRECTION INDICATOR BARRICADE										
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)		R1-2	48TRI.	6.93	1.00	6.93			13	YIELD		6161040	1	FLASHING ARROW PANEL										
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)		R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)		6161047		TYPE III OBJECT MARKER										
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)		R1-3P	30X12	2.50						ALL WAY (PLAQUE)		6161055		SEQUENTIAL FLASHING WARNING LIGHT										
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)		R2-1	36X48	12.00						SPEED LIMIT XX		6161070		TUBULAR MARKER										
WO3-4	48X48	16.00						BE PREPARED TO STOP		R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)		6161095		RADAR SPEED ADVISORY SYSTEM										
WO3-5	48X48	16.00						SPEED LIMIT AHEAD		R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)		6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED										
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)		R3-3	36X36	9.00						NO TURNS		6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED										
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)		R3-4	48X48	16.00						NO U-TURN (SYMBOL)		6161099	2	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE- CONTRACTOR FURNISHED/RETAINED										
WO4-1aL	48X48	16.00						MERGE (LEFT)		R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT		6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM										
WO4-1aR	48X48	16.00						MERGE (RIGHT)		R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT		6162000B		WORK ZONE TRAFFIC SIGNAL SYSTEM										
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS		R4-1	36X48	12.00						DO NOT PASS		6169902	10	TEMPORARY LONG-TERM RUMBLE STRIPS										
WO5-3	48X48	16.00						ONE LANE BRIDGE		R4-2	36X48	12.00						PASS WITH CARE		6173600D		CONTRACTOR FURNISHED/RETAINED										
WO5-5	48X48	16.00						NARROW LANES		R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)		6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED										
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)		R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)		6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION										
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)		R5-1	30X30	6.25						DO NOT ENTER		6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER										
WO6-3	48X48	16.00	6.00	96.00			31	TWO WAY TRAFFIC (SYMBOL)		R5-1a	36X24	6.00						WRONG WAY		6176000B		TEMPORARY TRAFFIC BARRIER										
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)		R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)		6208064A		TEMPORARY RAISED PAVEMENT MARKER										
WO8-1	48X48	16.00						BUMP		R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)		9029400		TEMPORARY TRAFFIC SIGNALS										
WO8-2	48X48	16.00						DIP		R6-2L	24X30	5.00						ONE WAY (LEFT)		9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING										
WO8-3	48X48	16.00						PAVEMENT ENDS		R6-2R	24X30	5.00						ONE WAY (RIGHT)		6205301B	1375	PERFORMED REMOVABLE MARKING TAPE 4 IN. WHITE										
WO8-4	48X48	16.00						SOFT SHOULDER		R9-9	24X12	2.00						SIDEWALK CLOSED		6205303B	1466	PERFORMED REMOVABLE MARKING TAPE 4 IN. YELLOW										
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)		R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE														
WO8-6	48X48	16.00						TRUCK CROSSING		R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE														
WO8-6c	48X48	16.00						TRUCK ENTRANCE		R10-6	24X36	6.00						STOP HERE ON RED (45^ ARROW)														
WO8-7	36X36	9.00						LOOSE GRAVEL		R11-2	48X30	10.00						ROAD CLOSED														
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL		R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD														
WO8-9	48X48	16.00						LOW SHOULDER		R11-4	60X30	12.50						LOCAL TRAFFIC ONLY														
WO8-11	48X48	16.00						UNEVEN LANES		CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC														
WO8-12	48X48	16.00						NO CENTER LINE		CONST-3X	56X12	4.67						FINE SIGN														
WO8-15	48X48	16.00						GROOVED PAVEMENT		MISCELLANEOUS SIGNS																						
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)		CONST-5	96X48	32.00	2	64.00				85	ROAD IMPROVEMENTS													
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)		CONST-7	72X36							RATE OUR WORK ZONE														
WO8-17R	30X24	5.00						SHOULDER DROP-OFF (SYMBOL RIGHT)		CONST-8	48X36	12.00	2.00	24.00				59	WORK ZONE NO PHONE ZONE													
W10-1	42RND.	9.62						RAILROAD CROSSING																								
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)																								
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)																								
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)																								
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)																								
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD																								
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD																								
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)																								
WO16-2	30X24	5.00						XXX FEET (PLAQUE)																								
WO16-3	30X24	5.00						X MILE (PLAQUE)																								
WO20-1	48X48	16.00	16.00	256.00			2	ROAD WORK AHEAD																								
WO20-2	48X48	16.00						DETOUR AHEAD																								
WO20-3	48X48	16.00						ROAD CLOSED AHEAD																								
WO20-4	48X48	16.00						ONE LANE ROAD AHEAD																								
WO20-5	48X48	16.00	4.00	64.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD																								
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD		616-10.05								CONSTRUCTION SIGNS														
WO20-6a	48X48	16.00	6.00	96.00			6	RIGHT/CENTER/LEFT LANE CLOSED		616-10.10								RELOCATED SIGNS														
WO20-7a	48X48	16.00						FLAGGER (SYMBOL)																								
WO21-2	36X36	9.00						FRESH OIL																								
WO21-5	48X48	16.00						SHOULDER WORK / SHOULDER WORK AHEAD																								
WO22-1	48X48	16.00						BLASTING ZONE AHEAD																								

GENERAL NOTE:  
THE APPROXIMATE LOCATION OF PROPERTY LINES 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.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 174+82.60 TO STA. 184+74.00, A DISTANCE OF 0.19 MILES. PERMANET EASEMENT LIMITS EXTEND FROM STA. 174+83.63 TO STA. 176+72.49 A DISTANCE OF 0.04 MILES. TEMPORARY EASEMENT LIMITS EXTEND FROM STA. 174+83.39 TO STA. 184+19.20 A DISTANCE OF 0.18 MILES.

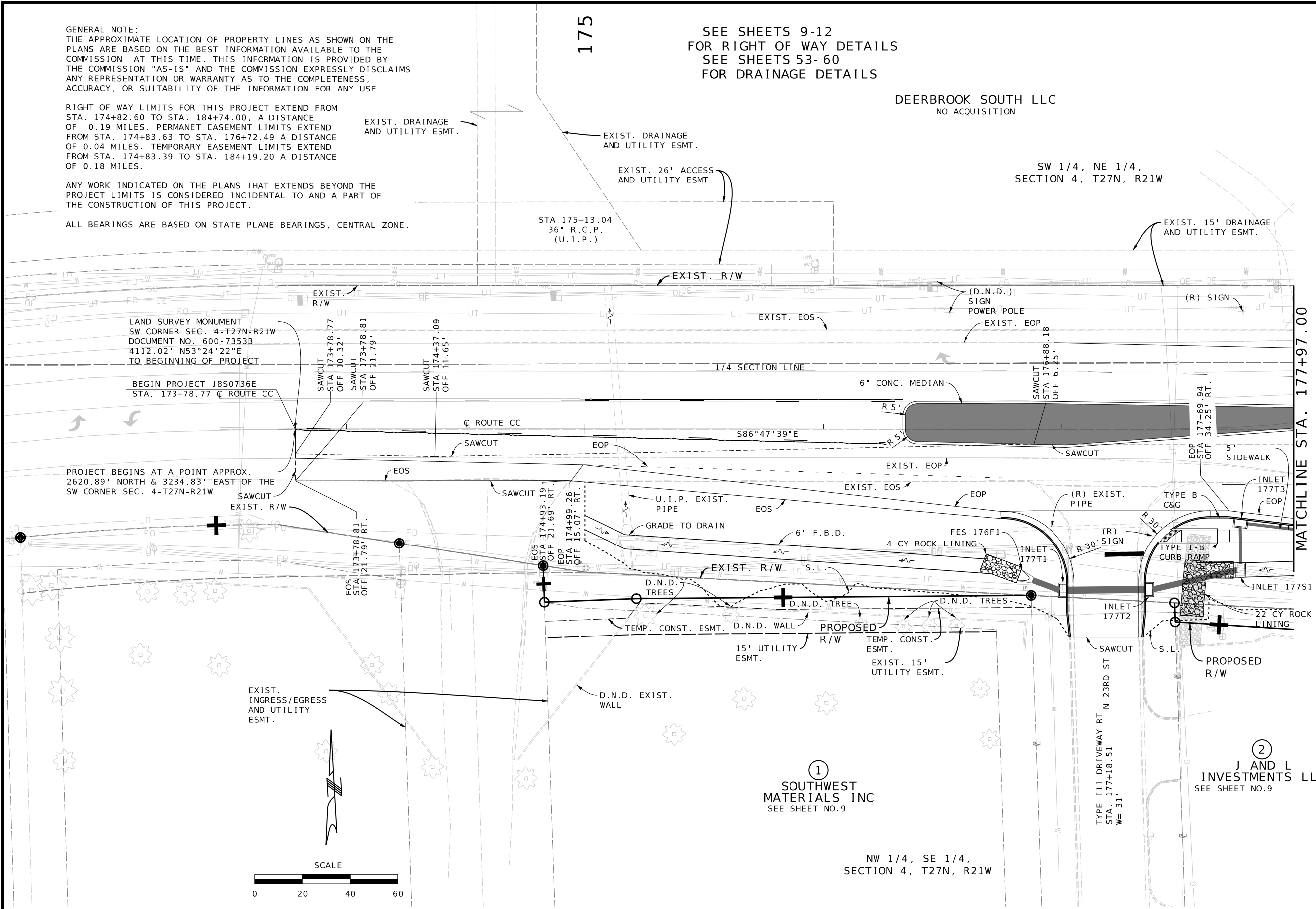
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, CENTRAL ZONE.

SEE SHEETS 9-12  
FOR RIGHT OF WAY DETAILS  
SEE SHEETS 53- 60  
FOR DRAINAGE DETAILS

DEERBROOK SOUTH LLC  
NO ACQUISITION

SW 1/4, NE 1/4,  
SECTION 4, T27N, R21W

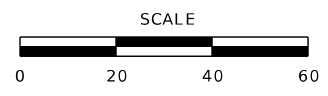


LAND SURVEY MONUMENT  
SW CORNER SEC. 4-T27N-R21W  
DOCUMENT NO. 600-73533  
4112.02' N53°24'22"E  
TO BEGINNING OF PROJECT

BEGIN PROJECT J8S0736E  
STA. 173+78.77 C ROUTE CC

PROJECT BEGINS AT A POINT APPROX.  
2620.89' NORTH & 3234.83' EAST OF THE  
SW CORNER SEC. 4-T27N-R21W

EXIST. INGRESS/EGRESS  
AND UTILITY ESMT.

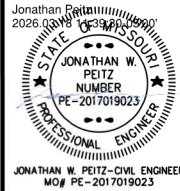


1  
SOUTHWEST  
MATERIALS INC  
SEE SHEET NO.9

NW 1/4, SE 1/4,  
SECTION 4, T27N, R21W

2  
J AND L  
INVESTMENTS LLC  
SEE SHEET NO.9

MATCHLINE STA. 177+97.00



DATE PREPARED  
3/18/2026

ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 4

COUNTY  
CHRISTIAN  
JOB NO.  
J8S0736E  
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A38612
----------------------

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

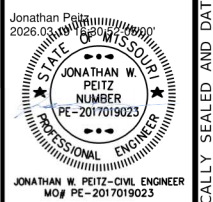
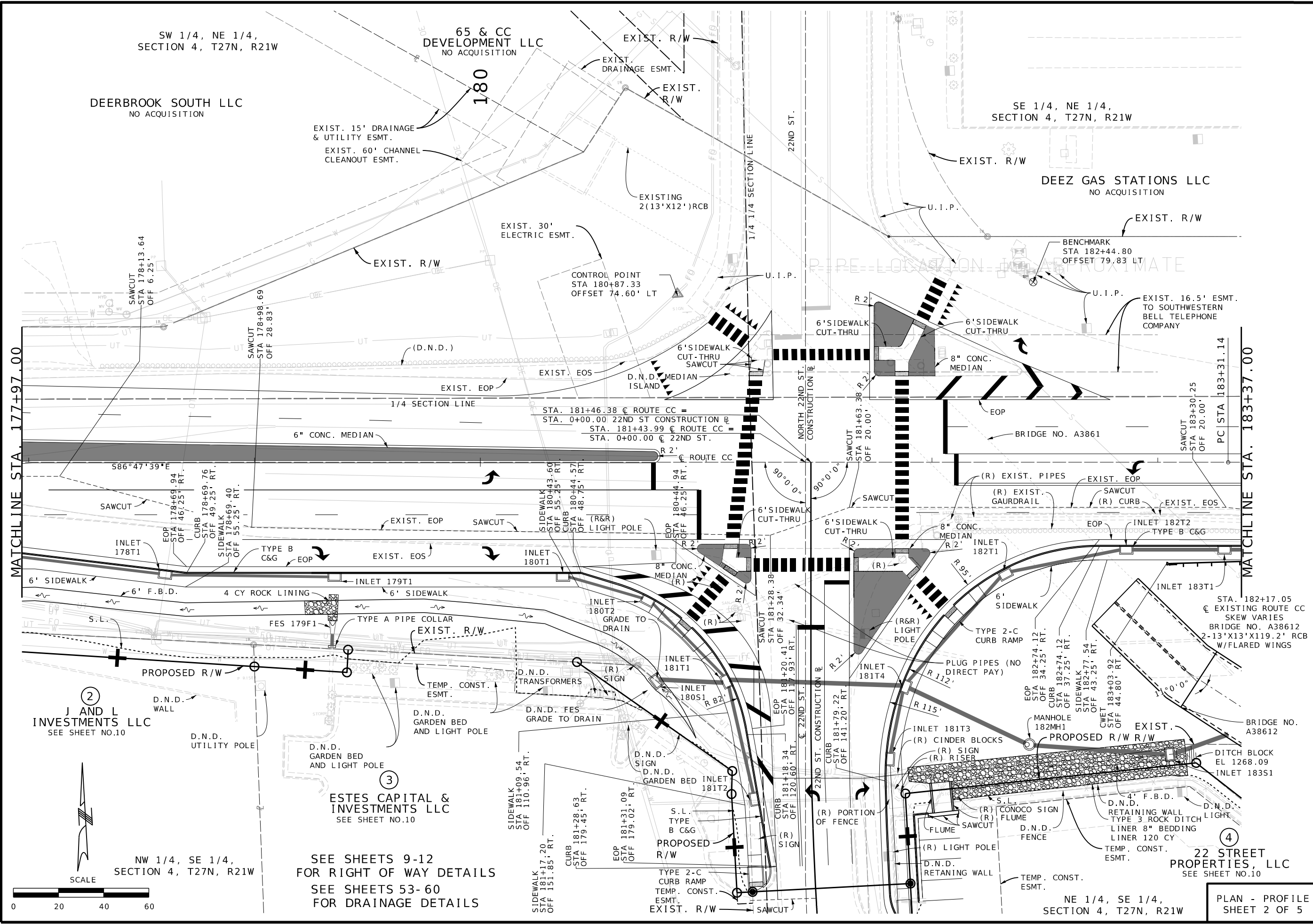
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**olsson**

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

PLAN - PROFILE  
SHEET 1 OF 5

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



DATE PREPARED	3/19/2026	
ROUTE	CC	MO
DISTRICT	SW	5
COUNTY	CHRISTIAN	
JOB NO.	J8S0736E	
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.	A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET SPRINGFIELD, MO 65806 PH. (417) 890-8802 CERTIFICATE OF AUTHORITY NO. 001592

SW 1/4, NE 1/4, SECTION 4, T27N, R21W

DEERBROOK SOUTH LLC NO ACQUISITION

65 & CC DEVELOPMENT LLC NO ACQUISITION

SE 1/4, NE 1/4, SECTION 4, T27N, R21W

DEEZ GAS STATIONS LLC NO ACQUISITION

NW 1/4, SE 1/4, SECTION 4, T27N, R21W

J AND L INVESTMENTS LLC SEE SHEET NO.10

ESTES CAPITAL & INVESTMENTS LLC SEE SHEET NO.10

22 STREET PROPERTIES, LLC SEE SHEET NO.10

SCALE 0 20 40 60

SEE SHEETS 9-12 FOR RIGHT OF WAY DETAILS  
SEE SHEETS 53-60 FOR DRAINAGE DETAILS

PLAN - PROFILE SHEET 2 OF 5

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

DEEZ GAS STATIONS LLC  
NO ACQUISITION

MCDONALD'S REAL ESTATE COMPANY  
NO ACQUISITION

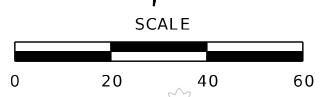
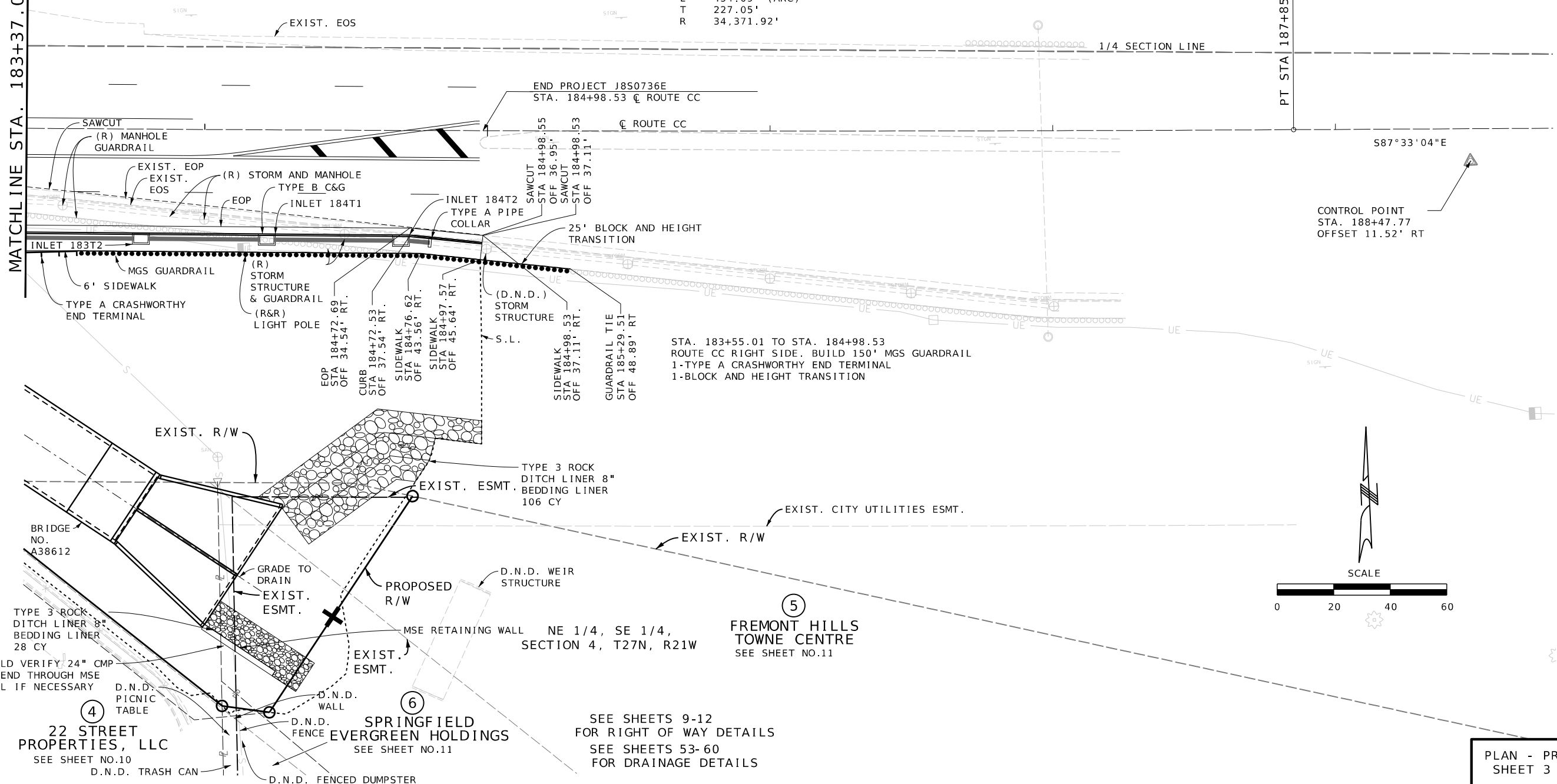
SE 1/4, NE 1/4,  
SECTION 4, T27N, R21W

EXIST. R/W

185

PI 185+58.19  
PC 183+31.14  
PT 187+85.23  
Δ 0°45'25.0" (LT)  
D 0°10'0.1"  
L 454.09' (ARC)  
T 227.05'  
R 34,371.92'

MATCHLINE STA. 183+37.00



CONTROL POINT  
STA. 188+47.77  
OFFSET 11.52' RT

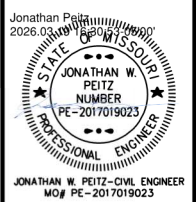
STA. 183+55.01 TO STA. 184+98.53  
ROUTE CC RIGHT SIDE. BUILD 150' MGS GUARDRAIL  
1-TYPE A CRASHWORTHY END TERMINAL  
1-BLOCK AND HEIGHT TRANSITION

5  
FREMONT HILLS  
TOWNE CENTRE  
SEE SHEET NO.11

6  
SPRINGFIELD  
EVERGREEN HOLDINGS  
SEE SHEET NO.11

4  
22 STREET  
PROPERTIES, LLC  
SEE SHEET NO.10

PLAN - PROFILE  
SHEET 3 OF 5



DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 6
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

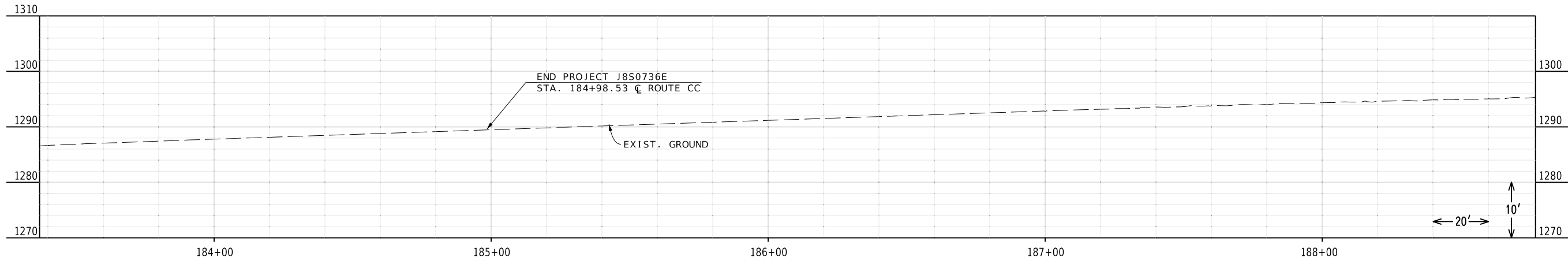
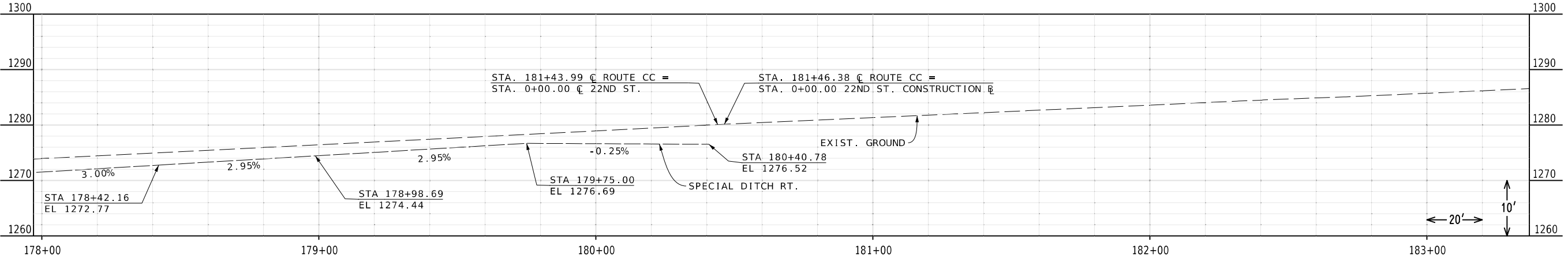
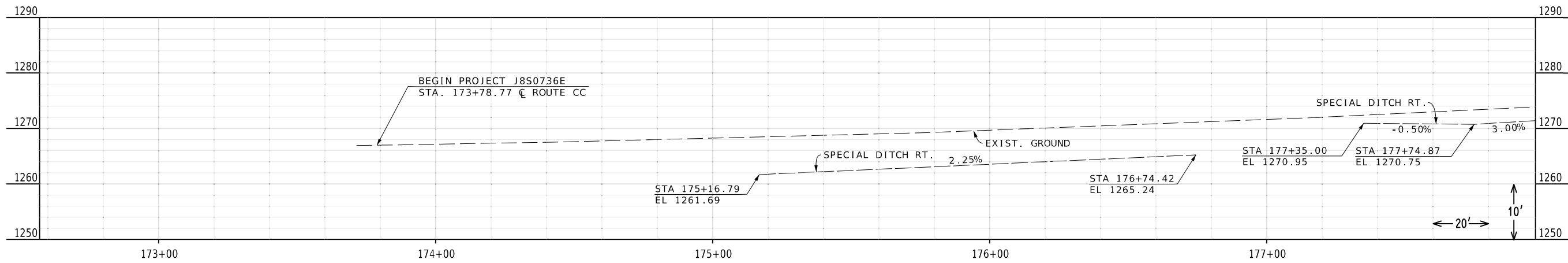
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

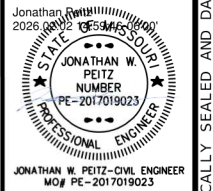
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

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



PLAN - PROFILE  
SHEET 4 OF 5



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 7
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

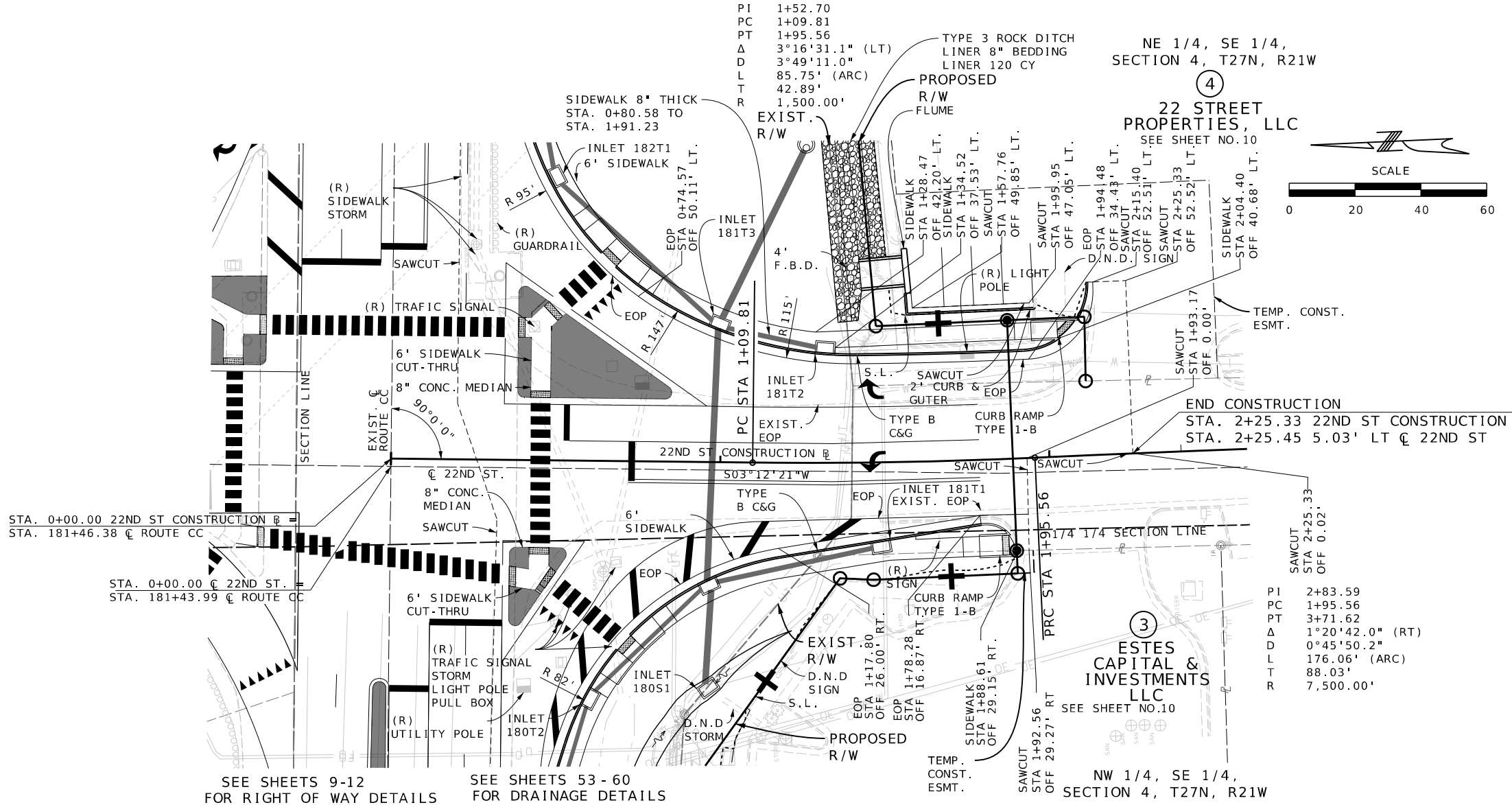
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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

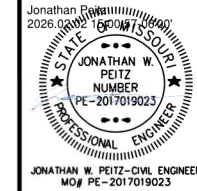
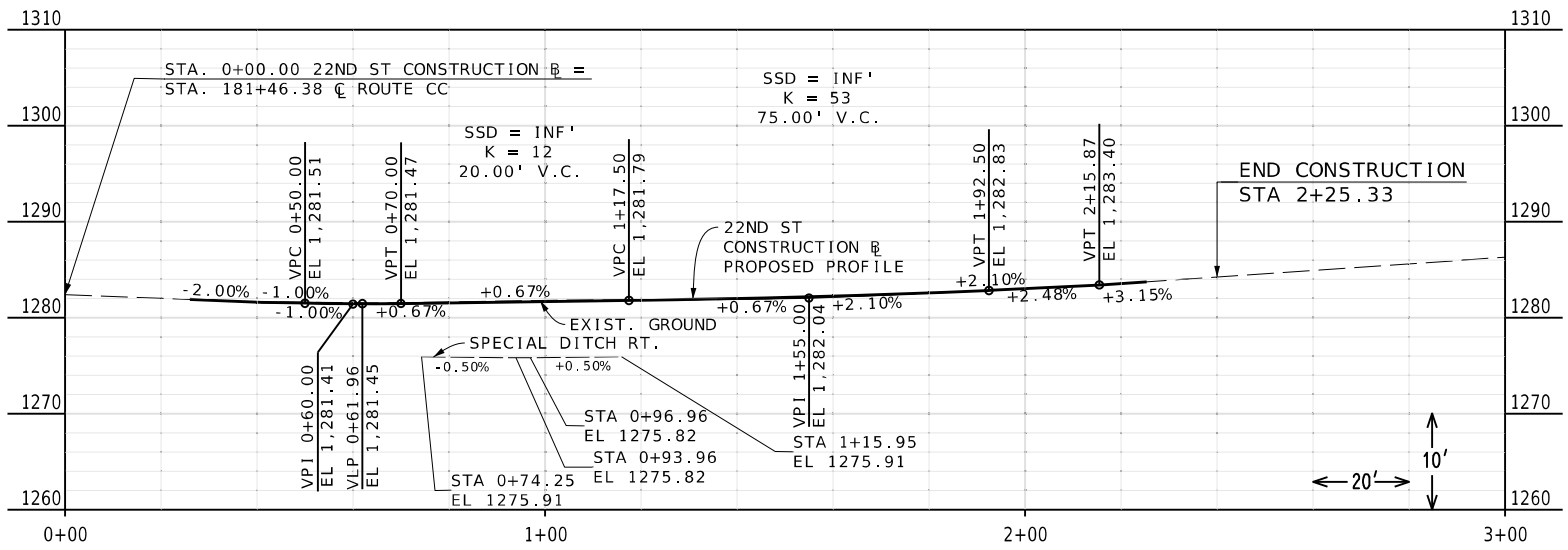
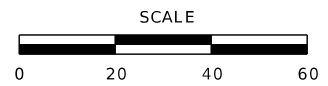


STA. 0+00.00 22ND ST CONSTRUCTION R  
STA. 181+46.38 C ROUTE CC

STA. 0+00.00 C 22ND ST.  
STA. 181+43.99 C ROUTE CC

SEE SHEETS 9-12  
FOR RIGHT OF WAY DETAILS

SEE SHEETS 53-60  
FOR DRAINAGE DETAILS



DATE PREPARED	2/2/2026	
ROUTE	CC	MO
DISTRICT	SW	SHEET NO. 8
COUNTY	CHRISTIAN	
JOB NO.	J8S0736E	
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.	A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

PLAN - PROFILE  
SHEET 5 OF 5

GENERAL NOTE:  
 THE APPROXIMATE LOCATION OF PROPERTY LINES 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.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STA. 174+82.60 TO STA. 184+74.00, A DISTANCE OF 0.19 MILES. PERMANET EASEMENT LIMITS EXTEND FROM STA. 174+79.86 TO STA. 177+07.06 A DISTANCE OF 0.04 MILES. TEMPORARY EASEMENT LIMITS EXTEND FROM STA. 174+83.39 TO STA. 182+33.71 A DISTANCE OF 0.14 MILES.

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

ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, CENTRAL ZONE.

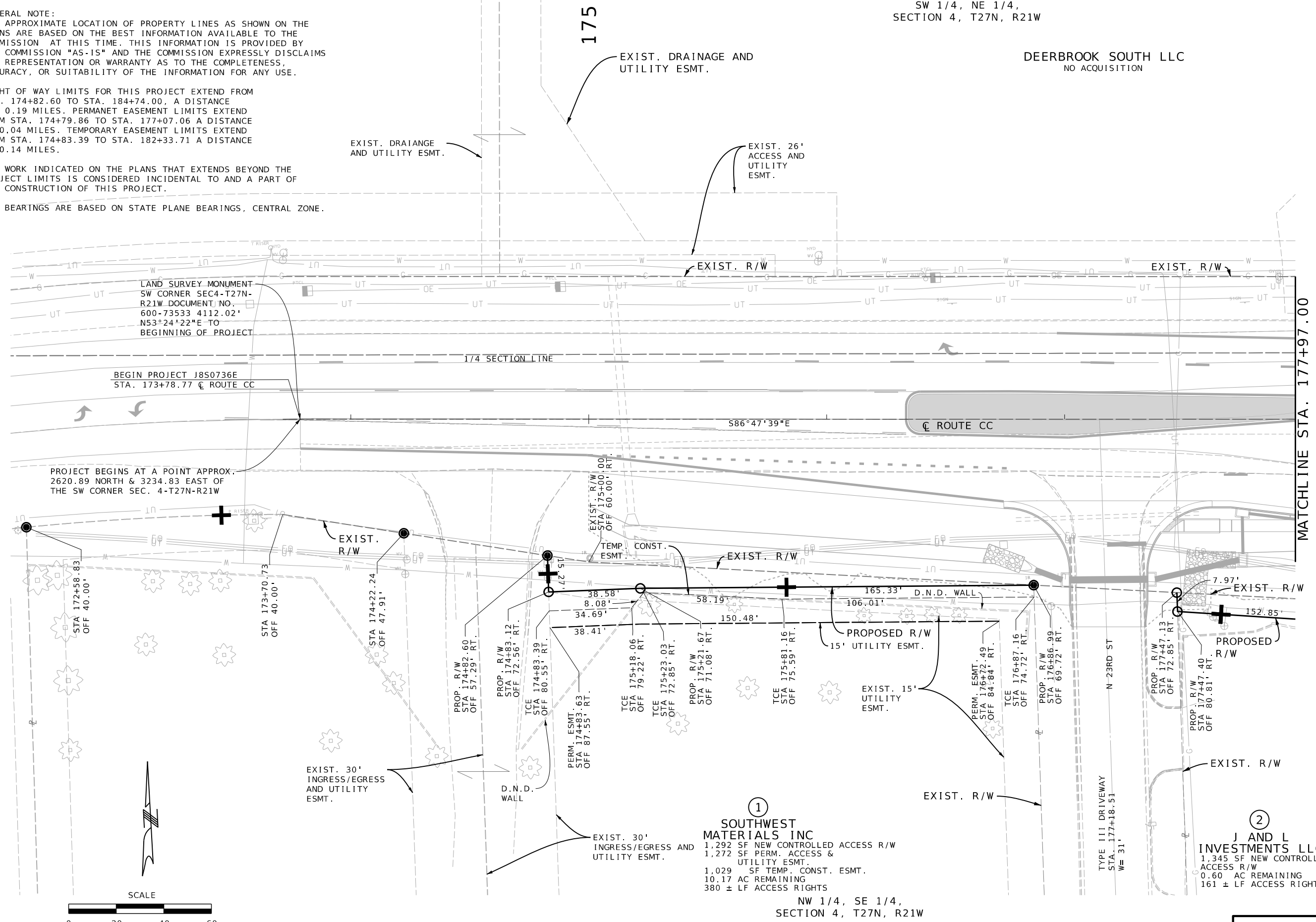
SW 1/4, NE 1/4,  
 SECTION 4, T27N, R21W

DEERBROOK SOUTH LLC  
 NO ACQUISITION

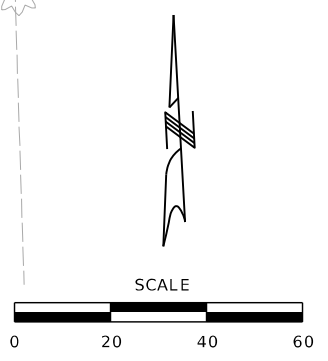


DATE PREPARED 3/16/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 9
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO. A38612



MATCHLINE STA. 177+97.00



①  
**SOUTHWEST MATERIALS INC**  
 1,292 SF NEW CONTROLLED ACCESS R/W  
 1,272 SF PERM. ACCESS & UTILITY ESMT.  
 1,029 SF TEMP. CONST. ESMT.  
 10.17 AC REMAINING  
 380 ± LF ACCESS RIGHTS  
 NW 1/4, SE 1/4,  
 SECTION 4, T27N, R21W

②  
**J AND L INVESTMENTS LLC**  
 1,345 SF NEW CONTROLLED ACCESS R/W  
 0.60 AC REMAINING  
 161 ± LF ACCESS RIGHTS

RIGHT OF WAY  
 SHEET 1 OF 4

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**Olsson**

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF AUTHORITY NO. 001592

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

SW 1/4, NE 1/4,  
SECTION 4, T27N, R21W

DEERBROOK SOUTH LLC  
NO ACQUISITION

65 & CC  
DEVELOPMENT LLC  
NO ACQUISITION

SE 1/4, NE 1/4,  
SECTION 4, T27N, R21W

DEEZ GAS STATIONS LLC  
NO ACQUISITION

EXIST. ESMT.  
STA 178+56.84  
OFF 75.00' LT.

EXIST. R/W  
STA 178+59.74  
OFF 59.96' LT.

EXIST. 15 DRAINAGE  
& UTILITY ESMT.

EXIST. DRAINAGE ESMT.

EXIST. 60' CHANNEL  
CLEANOUT ESMT.

EXIST. R/W

EXIST. 30' ELECTRIC ESMT.

180

EXIST. R/W  
STA 181+80.85  
OFF 100.00' LT.

EXIST. R/W  
STA 182+44.57  
OFF 100.01' LT.

EXIST. R/W

EXIST. ESMT.  
STA 183+00.00  
OFF 56.50' LT.

EXIST. ESMT.  
STA 183+00.00  
OFF 40.00' LT.

MATCHLINE STA. 177+97.00

MATCHLINE STA. 183+37.00

1/4 SECTION LINE

S86°47'39"E

STA. 181+43.99 C ROUTE CC  
STA. 0+00.00 C 22ND ST.

EXIST. ESMT.  
STA 181+19.03  
OFF 40.00' LT.

EXIST. 16.5' ESMT. TO  
SOUTHWESTERN BELL  
TELEPHONE COMPANY

PC STA 183+31.14

1/4 1/4 SECTION LINE

90°0'0"

PROPOSED  
R/W

2  
J AND L  
INVESTMENTS LLC  
SEE SHEET NO. 9

PROP. R/W  
STA 178+99.94  
OFF 90.49' RT.

EXIST. R/W  
STA 178+99.58  
OFF 80.177' RT.

PROP. R/W  
STA 179+40.90  
OFF 93.08' RT.

TCE  
STA 179+41.22  
OFF 87.10' RT.

TCE  
STA 179+63.69  
OFF 88.98' RT.

TCE  
STA 179+94.64  
OFF 90.50' RT.

TCE  
STA 180+15.34  
OFF 97.80' RT.

TCE  
STA 180+16.04  
OFF 92.64' RT.

TCE  
STA 180+52.58  
OFF 104.18' RT.

TCE  
STA 180+71.87  
OFF 108.92' RT.

TCE  
STA 180+71.18  
OFF 109.89' RT.

TCE  
STA 180+71.55  
OFF 109.89' RT.

TCE  
STA 180+71.55  
OFF 109.89' RT.

EXIST. R/W  
STA 181+30.00  
OFF 140.00' RT.

EXIST. R/W  
STA 181+70.00  
OFF 140.00' RT.

EXIST. R/W  
STA 181+88.22  
OFF 146.76' RT.

PROP. R/W  
STA 181+88.22  
OFF 146.76' RT.

EXIST. R/W

EXIST. ESMT.  
STA 183+07.49  
OFF 125.00' RT.

EXIST. R/W  
STA 183+17.00  
OFF 133.18' RT.

EXIST. R/W  
STA 183+17.00  
OFF 133.18' RT.

3  
ESTES CAPITAL &  
INVESTMENTS LLC  
1,719 SF NEW CONTROLLED  
ACCESS R/W  
994 SF TEMP. CONST. ESMT.  
0.78 AC REMAINING  
196 ± LF ACCESS RIGHTS  
NW 1/4, SE 1/4,  
SECTION 4, T27N, R21W

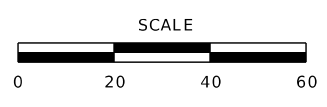
PROPOSED  
R/W

POT STA 1+84.65

PROP. R/W  
STA 181+90.46  
OFF 186.63' RT.

4  
22 STREET  
PROPERTIES LLC  
5,912 SF NEW CONTROLLED  
ACCESS R/W  
446 SF NEW CITY R/W  
6,939 SF TEMP. CONST.  
ESMT.  
1.38 AC REMAINING  
327 ± LF ACCESS RIGHTS

RIGHT OF WAY  
SHEET 2 OF 4



DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 10
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

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

MCDONALD'S REAL ESTATE COMPANY  
NO ACQUISITION

DEEZ GAS STATIONS LLC  
NO ACQUISITION  
SE 1/4, NE 1/4,  
SECTION 4, T27N, R21W

EXIST. R/W

185

PI 185+58.19  
PC 183+31.14  
PT 187+85.23  
Δ 0°45'25.0" (LT)  
D 0°10'0.1"  
L 454.09' (ARC)  
T 227.05'  
R 34,371.92'

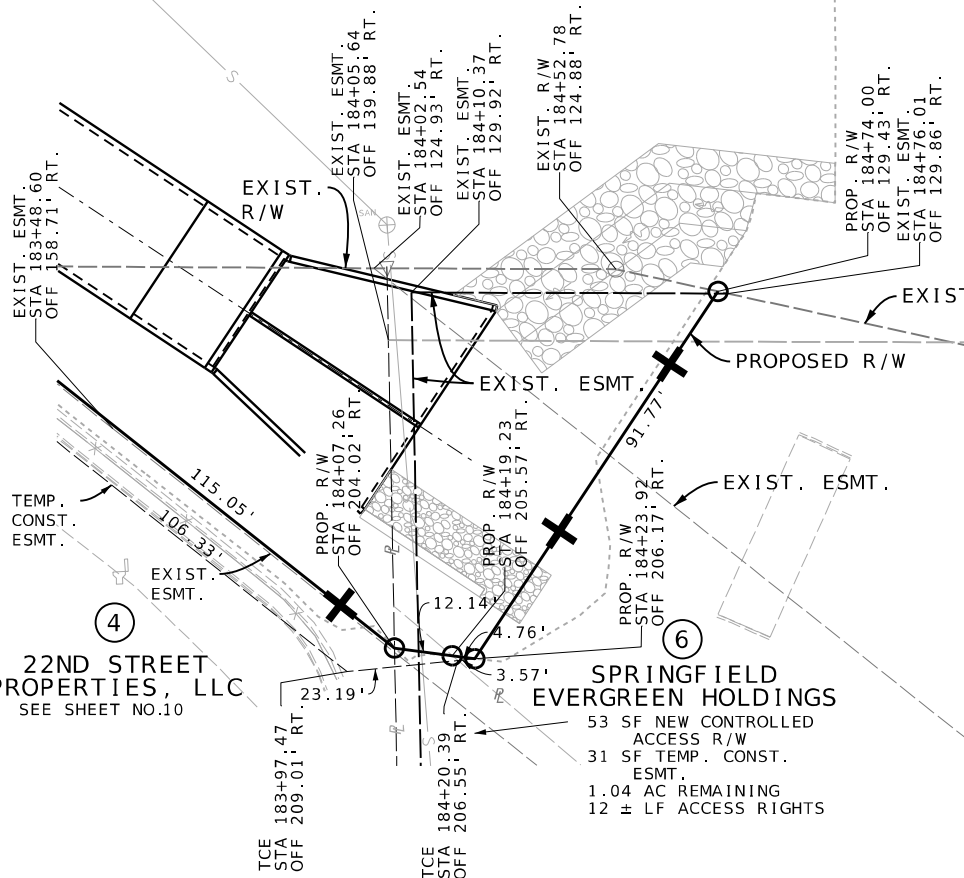
MATCHLINE STA. 183+37.00

PT STA 187+85.23

1/4 SECTION LINE

END PROJECT J8S0736E  
STA. 184+98.53 C ROUTE CC

587°33'04"E

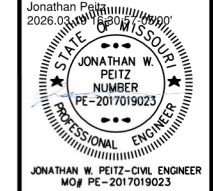
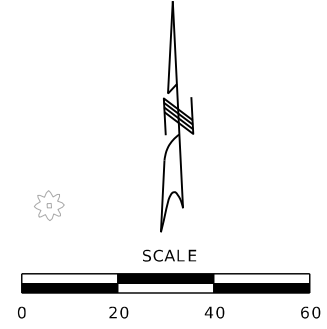


22ND STREET  
PROPERTIES, LLC  
SEE SHEET NO.10

SPRINGFIELD  
EVERGREEN HOLDINGS  
53 SF NEW CONTROLLED  
ACCESS R/W  
31 SF TEMP. CONST.  
ESMT.  
1.04 AC REMAINING  
12 ± LF ACCESS RIGHTS

NE 1/4, SE 1/4,  
SECTION 4, T27N, R21W

⑤  
FREMONT HILLS  
TOWNE CENTRE  
3,478 SF NEW  
CONTROLLED ACCESS R/W  
2 SF TEMP. CONST.  
ESMT.  
6.85 AC REMAINING  
97 ± LF ACCESS RIGHTS



DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 11
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

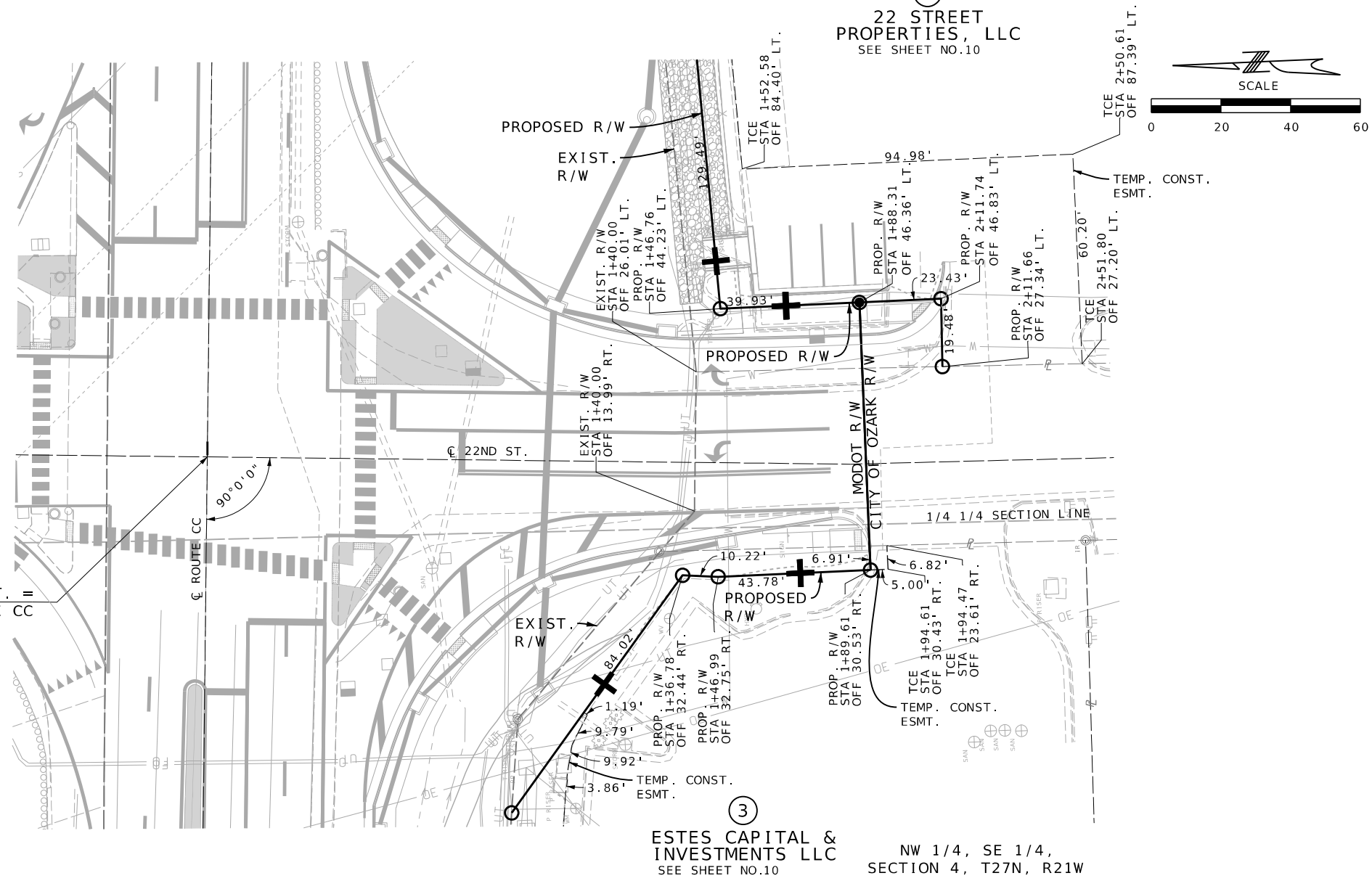
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

RIGHT OF WAY  
SHEET 3 OF 4

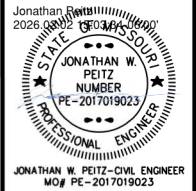
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STA. 0+00.00 C 22ND ST. =  
 STA. 181+43.99 C ROUTE CC



NE 1/4, SE 1/4,  
 SECTION 4, T27N, R21W  
 ④  
 22 STREET  
 PROPERTIES, LLC  
 SEE SHEET NO.10

③  
 ESTES CAPITAL &  
 INVESTMENTS LLC  
 SEE SHEET NO.10  
 NW 1/4, SE 1/4,  
 SECTION 4, T27N, R21W



DATE PREPARED  
 2/2/2026  
 ROUTE STATE  
 CC MO  
 DISTRICT SHEET NO.  
 SW 12  
 COUNTY  
 CHRISTIAN  
 JOB NO.  
 J8S0736E  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.  
 A38612

DATE	DESCRIPTION

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

**olsson**  
 550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF  
 AUTHORITY NO. 001592

RIGHT OF WAY  
 SHEET 4 OF 4

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

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	GEOID 18
ELEVATIONS	GPS OBSERVATIONS
DETERMINED BY	
PROJECT PROJECTION FACTOR	1.000067593

**REFERENCE CONTROL INFORMATION**

COORDINATE SYSTEM	MISSOURI STATE PLANE
CONTROL STATION	MODOT GNSS
DESIGNATION	MODOT SPRINGFIELD CORS ARP
CORS_ID	MOSF
PID	DL5388
LATITUDE	37°14'30.33454"
LONGITUDE	93°13'47.54333"
NORTHING (M)	156530.8730
EASTING (M)	435242.8820
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99993241

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR  
= STATE PLANE NORTHING

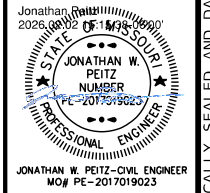
PROJECT EASTING X AVERAGE GRID FACTOR  
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT # 6  
N 451232.1402 X .99993241 = N 451201.6414  
E 1426706.5221 X .99993241 = E 1426610.0910

**LINEAR UNIT CONVERSION**  
1 METER = 3.280833333 US SURVEY FEET (USFT)

**COORDINATE POINT LISTING**

SHEET NO	STATION	LOCATION	OFFSET (USFT)	NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION
<b>MODIFIED STATE PLANE (GROUND)</b>							
<b>BENCHMARK MARK POINTS</b>							
	191+74.72	RTE CC	22.64 LT	451127.5959	1427789.4094	1,300.43	EXISTING BOLT NW COR BRIDGE OVER ROUTE 65
	182+44.80	RTE CC	79.83 LT	451228.5550	1426864.0371	1,279.37	BM3 SQUARE ON N/E CORNER OF EAST END RETAINING WALL
<b>PROJECT CONTROL POINTS</b>							
	188+47.77	RTE CC	11.52 RT	451107.4453	1427461.2951	1,295.44	PK NAIL
	180+87.33	RTE CC	74.60 LT	451232.1402	1426706.5221	1,279.45	5/8" REBAR
<b>ALIGNMENTS</b>							
<b>EXIST. ROUTE CC</b>							
	173+71.40	CL		451197.6962	1425987.5368		BEGIN CHAIN ROUTE CC
	183+31.14	CL		451144.0231	1426945.7719		PC POINT
	185+58.19	CL	0.750 RT	451131.3254	1427172.4649		PI POINT
		CL		485462.1504	1428868.0165		CC POINT
	187+85.23	CL		451121.6237	1427399.3058		PT POINT
	193+12.11	CL		451099.1100	1427925.7074		END CHAIN
<b>22ND ST EXIST.</b>							
	0+00.00	CL		451154.4891	1426758.9207		BEGIN CHAIN SOUTH 22ND ST
	1+84.65	CL		450970.1261	1426748.5941		PI POINT
	5+00.00	CL		450654.8402	1426742.3349		END CHAIN
<b>22ND ST CONSTRUCTION BASELINE</b>							
	0+00.00	BL		451154.3555	1426761.3064		BEGIN CHAIN CONSTRUCTION BASELINE
	1+09.81	BL		451044.7148	1426755.1651		PC POINT
	1+52.70	BL	0.613 RT	451001.8964	1426752.7668		PI POINT
		BL		450960.8275	1428252.8176		CC POINT
	1+95.56	BL		450959.0110	1426752.8187		PC POINT
	2+83.59	BL	0.517 LT	450870.9766	1426752.9253		PI POINT
		BL		450949.9282	1419252.8242		CC POINT
	3+71.62	BL		450782.9640	1426750.9655		END CHAIN
<b>NORTH 22ND ST CONSTRUCTION BASELINE</b>							
	2+11.72	BL		451442.3274	1426775.0432		BEGIN CHAIN
	5+00.01	BL		451154.4891	1426758.921		END CHAIN



DATE PREPARED: 2/2/2026  
 ROUTE: CC STATE: MO  
 DISTRICT: SW SHEET NO.: 13  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID:  
 PROJECT NO.  
 BRIDGE NO.: A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

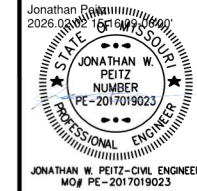
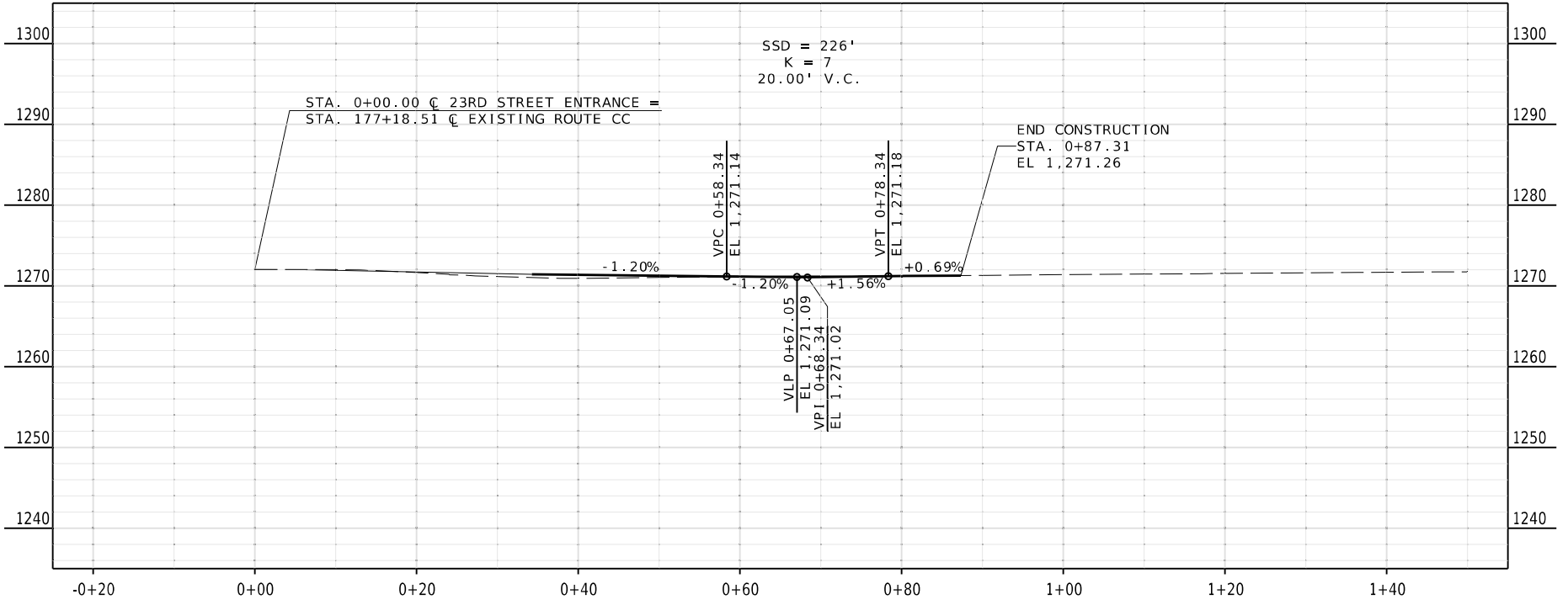
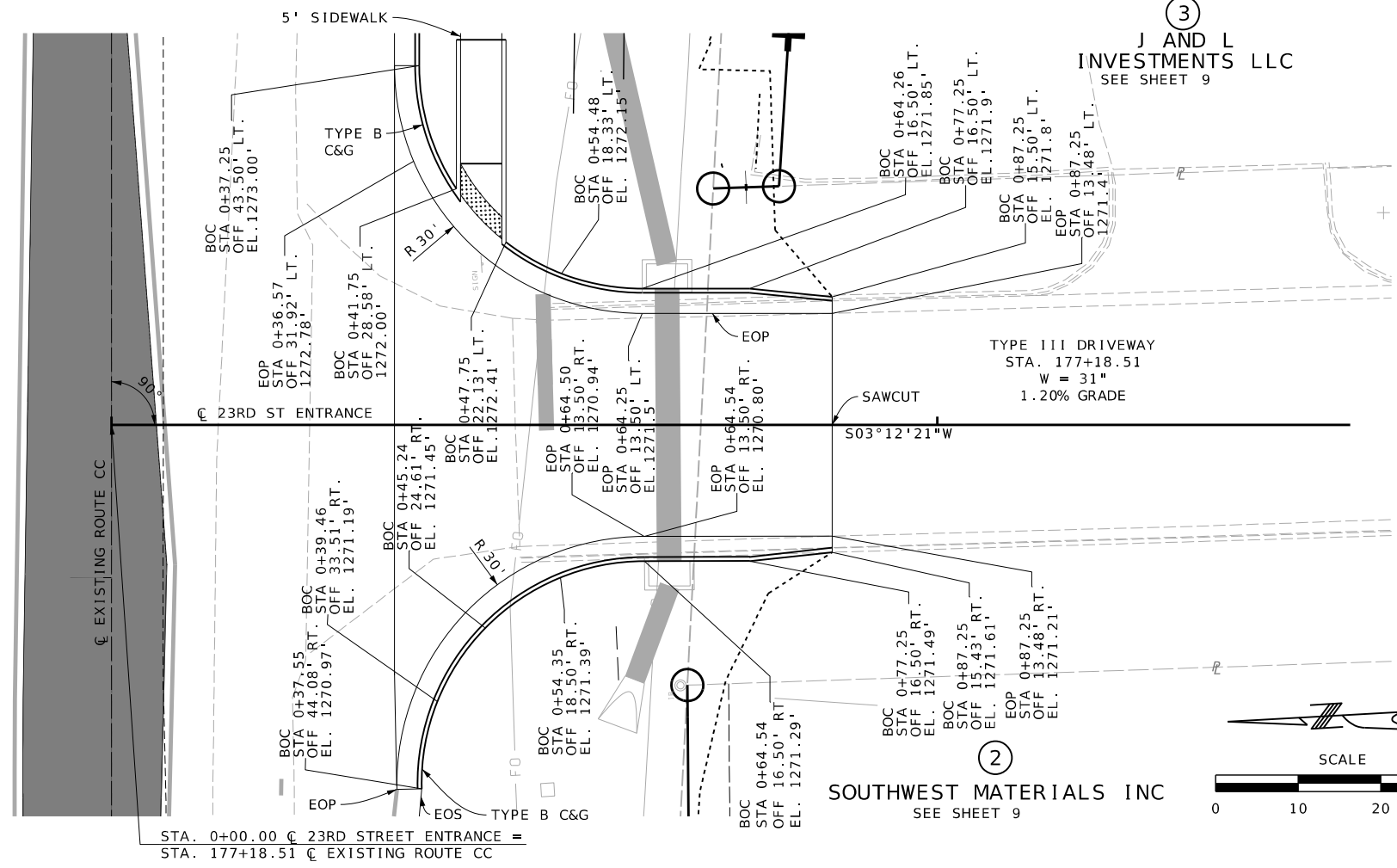
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

**olsson**

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF AUTHORITY NO. 001592

COORDINATE POINT SHEET 1 OF 1

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



DATE PREPARED	
2/2/2026	
ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	14
COUNTY	
CHRISTIAN	
JOB NO.	
J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**olsson**

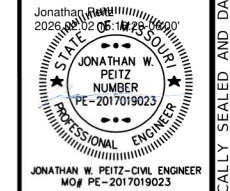
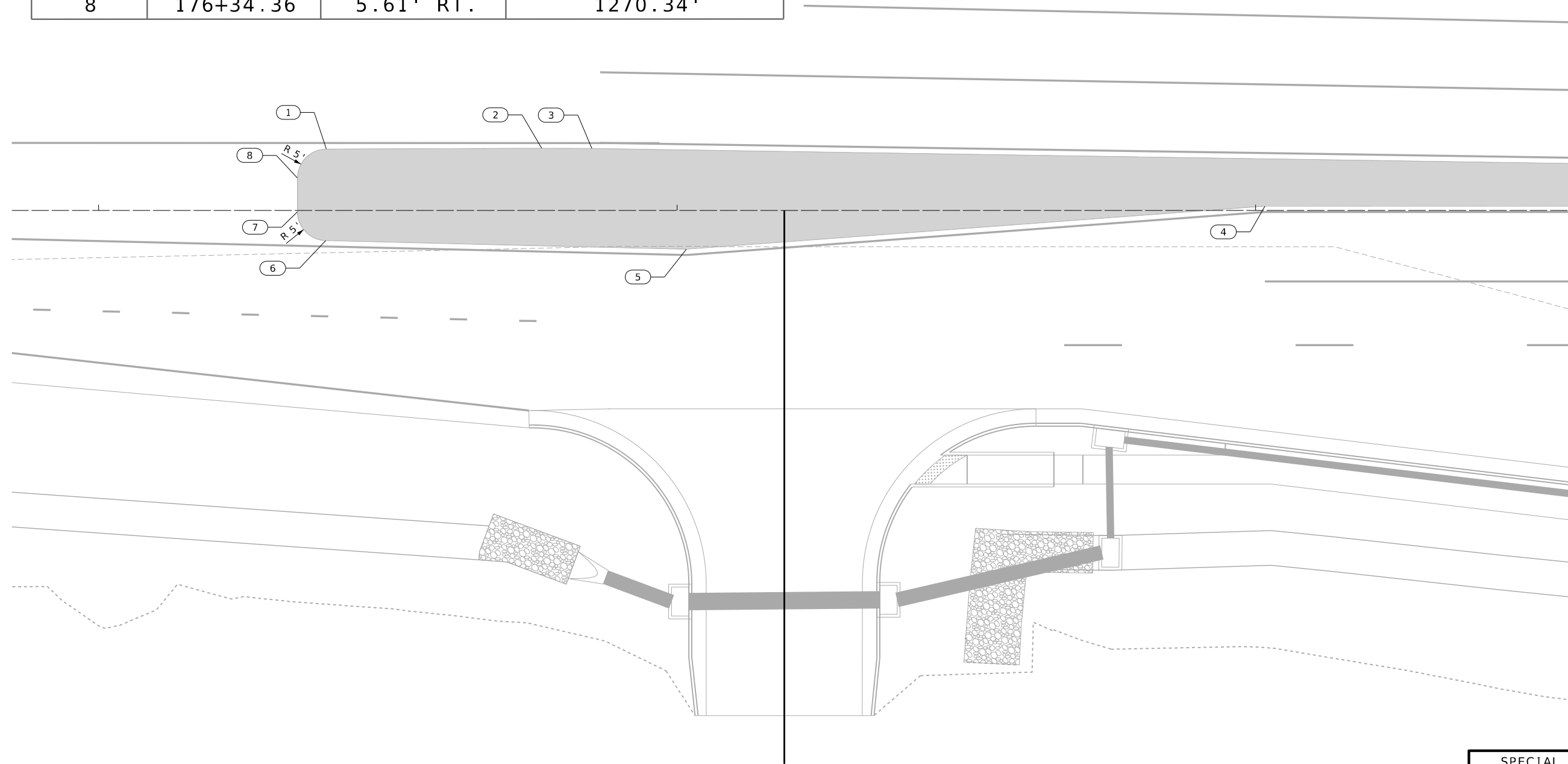
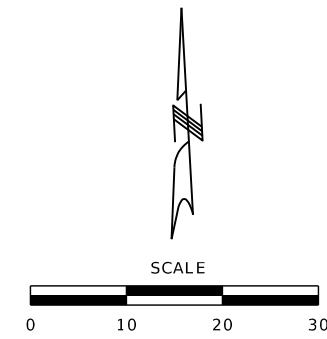
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET  
23RD ST  
SHEET 1 OF 8

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

## RAISED MEDIAN GEOMETRIC POINTS

POINT NO.	STATION	OFFSET	TOP OF PAVEMENT ELEVATION
1	176+39.34	10.61' LT.	1270.34'
2	176+76.60	10.76' LT.	1271.06'
3	176+85.25	10.71' LT.	1271.24'
4	178+01.57	0.75' LT.	1273.99'
5	177+01.59	6.69' RT.	1271.61'
6	176+39.24	5.20' RT.	1270.36'
7	176+34.36	0.20' RT.	1270.30'
8	176+34.36	5.61' RT.	1270.34'



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 15
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

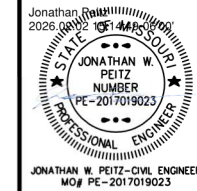
MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

SPECIAL SHEET  
MEDIAN GEOMETRICS  
SHEET 2 OF 8

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



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 16
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

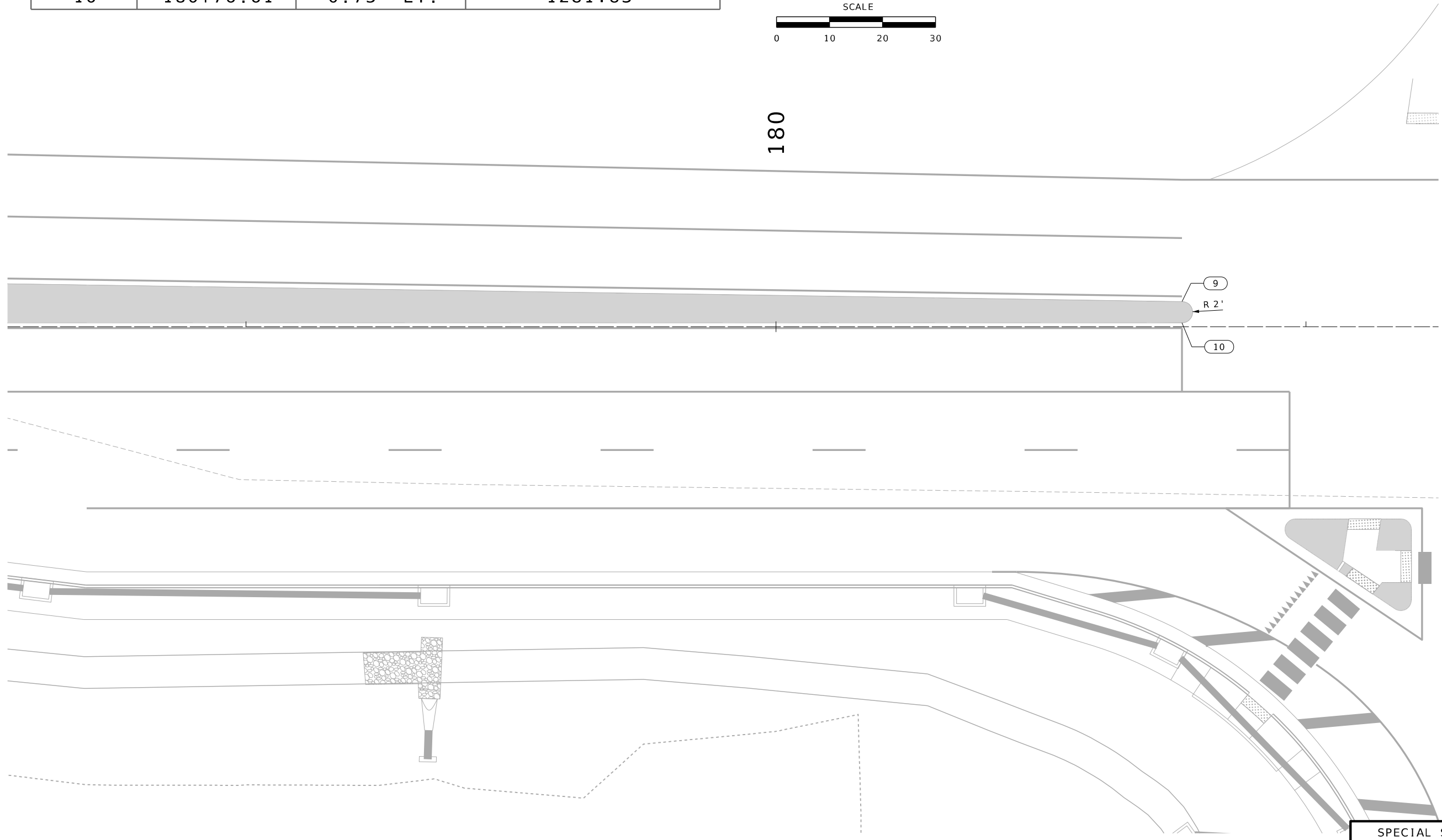
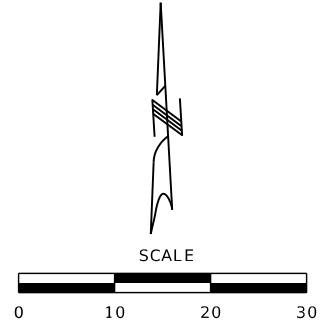
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET  
MEDIAN GEOMETRICS  
SHEET 3 OF 8

RAISED MEDIAN GEOMETRIC POINTS			
POINT NO.	STATION	OFFSET	TOP OF PAVEMENT ELEVATION
9	180+76.61	4.78' LT.	1281.80'
10	180+76.61	0.75' LT.	1281.83'



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

RAISED MEDIAN GEOMETRIC POINTS			
POINT NO.	STATION	OFFSET	TOP OF PAVEMENT ELEVATION
11	180+97.26	40.05' RT.	1280.61
12	180+98.01	36.33' RT.	1280.70
13	181+05.81	45.89' RT.	1280.69
14	181+06.23	46.17' RT.	1280.70
15	181+06.93	44.23' RT.	1280.73
16	181+07.49	44.51' RT.	1280.73
17	181+07.49	47.00' RT.	1280.72
18	181+07.91	36.33' RT.	1280.89
19	181+08.34	45.28' RT.	1280.75
20	181+12.68	50.40' RT.	1280.81
21	181+13.40	42.17' RT.	1280.87
22	181+14.15	36.33' RT.	1281.01
23	181+14.40	48.33' RT.	1280.86
24	181+16.81	53.17' RT.	1280.89
25	181+17.88	36.33' RT.	1281.09
26	181+19.80	38.25' RT.	1281.09
27	181+19.88	42.16' RT.	1281.01
28	181+19.80	48.33' RT.	1280.98
29	181+19.80	51.58' RT.	1280.98
30	181+65.47	40.25' RT.	1281.93
31	181+65.47	42.17' RT.	1281.91
32	181+65.47	48.33' RT.	1281.89
33	181+65.47	83.05' RT.	1281.73
34	181+67.39	38.33' RT.	1282.00
35	181+68.96	84.15' RT.	1281.77
36	181+83.55	38.33' RT.	1282.31
37	181+83.55	42.17' RT.	1282.50
38	181+87.02	48.33' RT.	1282.61
39	181+89.72	38.33' RT.	1282.45
40	181+89.72	42.22' RT.	1282.36
41	181+90.97	52.51' RT.	1282.37
42	181+94.57	47.34' RT.	1282.45
43	181+97.16	38.33' RT.	1282.70
44	181+98.74	41.34' RT.	1282.68
45	181+74.45	40.25' LT.	1282.19
46	181+74.45	45.14' LT.	1282.07
47	181+74.45	51.31' LT.	1281.91
48	181+74.45	68.87' LT.	1281.07
49	181+76.38	38.33' LT.	1282.19
50	181+77.29	70.73' LT.	1281.05
51	181+83.55	38.33' LT.	1282.43
52	181+83.55	45.14' LT.	1282.46
53	181+84.96	51.31' LT.	1282.16
54	181+86.69	52.38' LT.	1282.14
55	181+89.72	38.33' LT.	1282.54
56	181+89.72	43.86' LT.	1282.66
57	181+90.18	45.47' LT.	1282.71
58	181+92.05	63.34' LT.	1281.69
59	181+97.57	60.59' LT.	1282.00
60	182+01.02	58.97' LT.	1281.98
61	182+01.28	38.33' LT.	1282.84

180

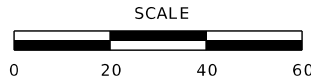
BOC STA. 180+60.54 OFF. 54.99' RT. ELEV. 1280.20  
EOP STA. 180+61.41 OFF. 51.26' RT. ELEV. 1279.70

BOC STA. 180+80.99 OFF. 63.58' RT. ELEV. 1280.55  
EOP STA. 180+82.61 OFF. 61.06' RT. ELEV. 1280.05

BOC STA. 180+98.09 OFF. 78.24' RT. ELEV. 1280.76  
EOP STA. 181+00.34 OFF. 76.26' RT. ELEV. 1280.41

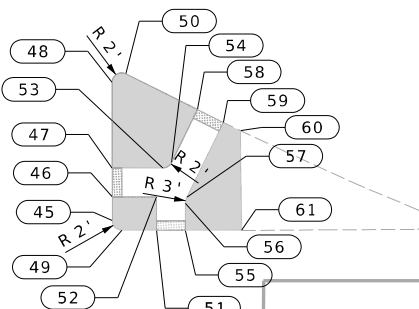
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EOP STA. 181+13.26 OFF. 95.71' RT. ELEV. 1280.91

BOC STA. 181+17.45 OFF. 118.45' RT. ELEV. 1281.77  
EOP STA. 181+20.41 OFF. 117.94' RT. ELEV. 1281.27



STA 181+20.16  
OFF 46.84'  
STA 181+26.01  
OFF 45.37'

STA 181+18.93  
OFF 38.34'  
STA 181+24.98  
OFF 38.32'



PC STA 183+31.14



BOC STA. 182+74.12 OFF. 37.25' RT. ELEV. 1285.46'  
EOP STA. 182+74.12 OFF. 34.25' RT. ELEV. 1284.96'

BOC STA. 182+50.03 OFF. 40.46' RT. ELEV. 1285.04'  
EOP STA. 182+49.24 OFF. 37.56' RT. ELEV. 1284.54'

BOC STA. 182+27.09 OFF. 50.18' RT. ELEV. 1284.00'  
EOP STA. 182+25.56 OFF. 47.60' RT. ELEV. 1283.50'

BOC STA. 182+07.84 OFF. 65.35' RT. ELEV. 1282.54'  
EOP STA. 182+05.71 OFF. 63.33' RT. ELEV. 1282.71'

BOC STA. 181+92.84 OFF. 85.09' RT. ELEV. 1282.64'  
EOP STA. 181+90.64 OFF. 83.90' RT. ELEV. 1282.14'

BOC STA. 181+87.18 OFF. 98.53' RT. ELEV. 1282.25'  
EOP STA. 181+84.38 OFF. 97.45' RT. ELEV. 1281.75'

BOC STA. 181.82.85 OFF. 112.38' RT. ELEV. 1281.89'  
EOP STA. 181+79.94 OFF. 111.67' RT. ELEV. 1281.39'

BOC STA. 181+80.35 OFF. 126.70' RT. ELEV. 1281.66'  
EOP STA. 181+77.37 OFF. 126.38' RT. ELEV. 1281.16'

BOC STA. 181+79.72 OFF. 141.19' RT. ELEV. 1281.70'  
EOP STA. 181+76.72 OFF. 141.26' RT. ELEV. 1281.20'

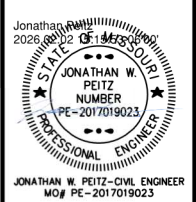
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EOP STA. 181+78.81 OFF. 194.30' RT. ELEV. 1282.33'  
BOC STA. 181+83.42 OFF. 199.59' RT. ELEV. 1282.93'  
EOP STA. 181+80.71 OFF. 200.88' RT. ELEV. 1282.43'

BOC STA. 181+87.43 OFF. 205.00' RT. ELEV. 1282.29'  
EOP STA. 181+85.41 OFF. 207.22' RT. ELEV. 1282.45'

BOC STA. 181+93.20 OFF. 208.50' RT. ELEV. 1282.77'  
EOP STA. 181+92.17 OFF. 211.31' RT. ELEV. 1282.33'

BOC STA. 181+99.86 OFF. 209.55' RT. ELEV. 1282.62'  
EOP STA. 181+99.97 OFF. 212.55' RT. ELEV. 1282.12'

BOC STA. 182+02.27 OFF. 209.46' RT. ELEV. 1282.55'  
EOP STA. 182+02.37 OFF. 212.46' RT. ELEV. 1282.05'



DATE PREPARED  
2/2/2026

ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 17

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

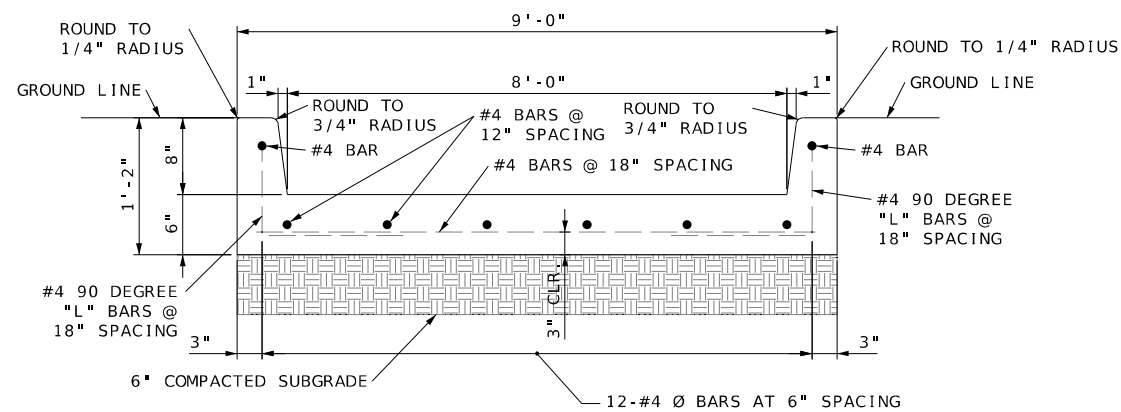
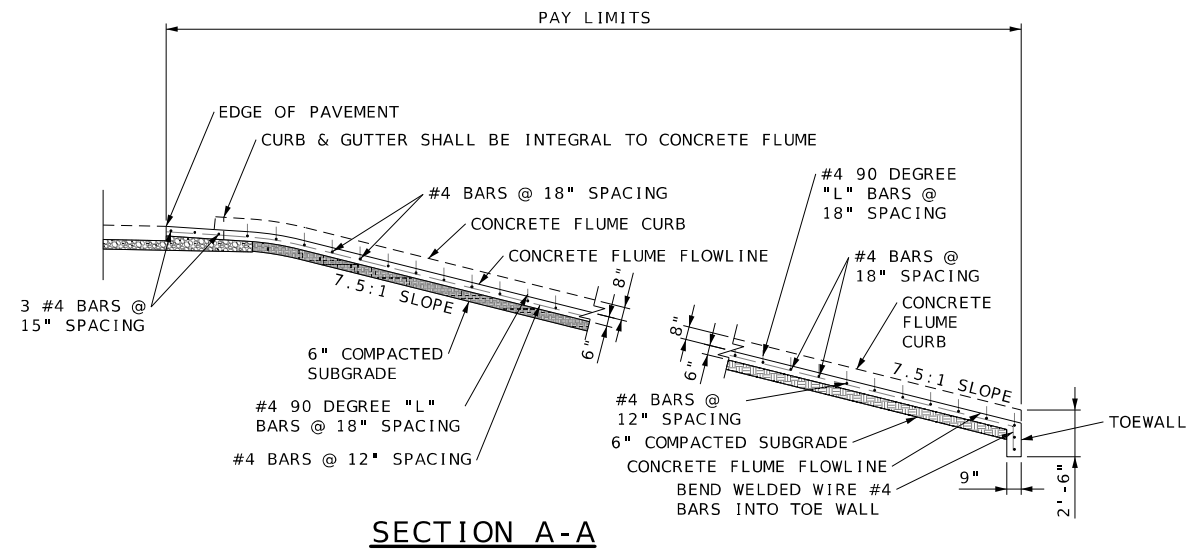
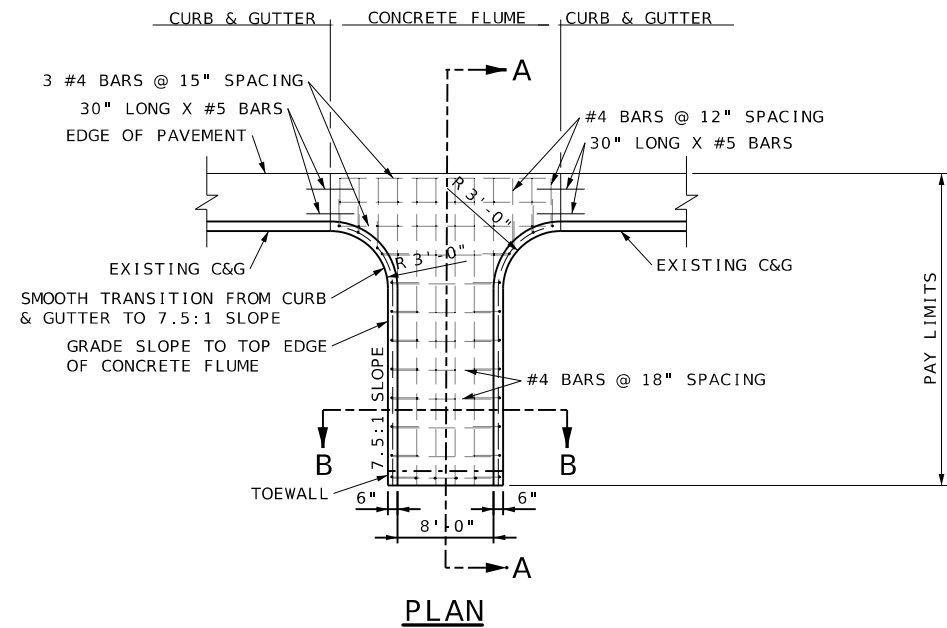
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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550 ST. LOUIS STREET  
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PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

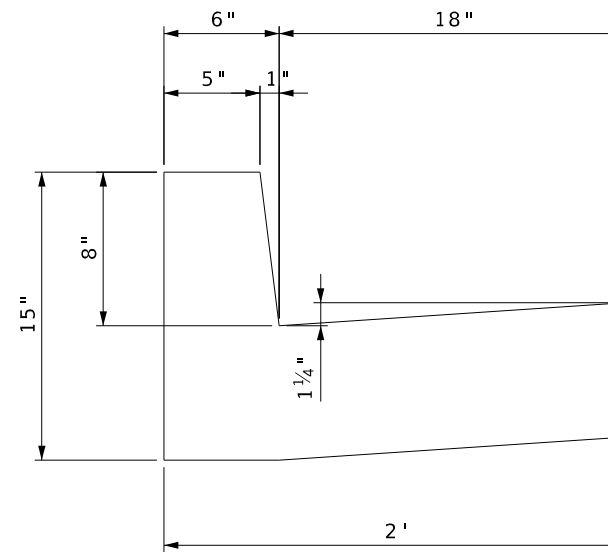
SPECIAL SHEET  
INTERSECTION GEOMETRIC  
SHEET 4 OF 8

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

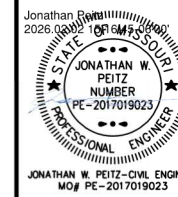


**SECTION B-B**  
**CONCRETE FLUME DETAIL**  
N.T.S.

NOTES:  
1. GR 60 REBAR SHALL BE EPOXY COATED  
2. CONCRETE SHALL BE 4 KSI, AIR ENTRAINED CONCRETE



**2' CURB & GUTTER DETAIL**  
N.T.S.



DATE PREPARED  
2/2/2026

ROUTE STATE  
CC MO  
DISTRICT SHEET NO.  
SW 18

COUNTY  
CHRISTIAN  
JOB NO.  
J8S0736E  
CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

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

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET  
FLUME & CURB  
SHEET 5 OF 8

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

30' MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM

SEC/SUR 4 TWP 27N RGE 21W

General Notes:

Design Specifications:  
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)

Design Loading:

A geotechnical investigation was not undertaken at this location. Contractor shall make an assessment of the anticipated bearing pressure needed to satisfy its MSE wall design, and ensure that the excavation is monitored by a licensed geotechnical engineer or geologist during construction. Contractor shall stop work and assist the inspector for testing of the subgrade to ensure it is in compliance with the Contractor's assumed wall design parameters (bearing pressure, friction angle, unit weight, etc.) prior to installation of the leveling pad. Where necessary, Contractor shall install foundation improvements, which may consist of over-excavation and replacement with suitable compacted granular backfill. Payment will not be made for removal and replacement of foundation subgrade material that is inherently unsound or became unsuitable because of improper methods of construction by the Contractor. This work shall be considered subsidiary to the bid item "Mechanically Stabilized Earth Wall Systems" per square foot. No payment will be made for any costs involved in replacing the volume below the wall, except that the Contractor will be reimbursed for the delivered cost of the granular backfill when directed by the Engineer.

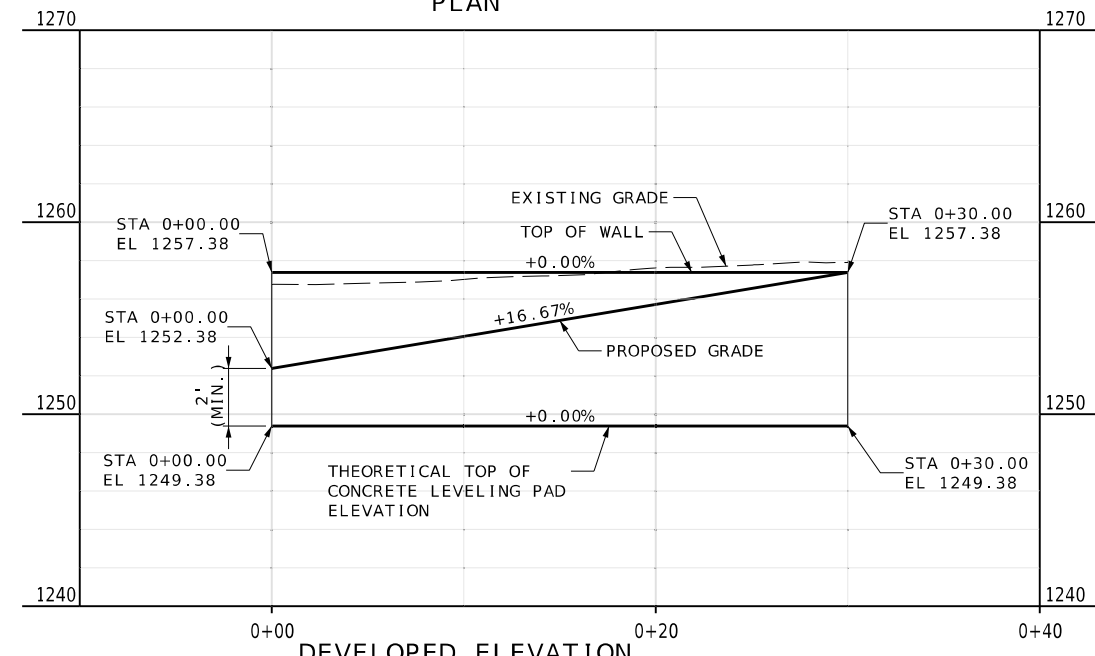
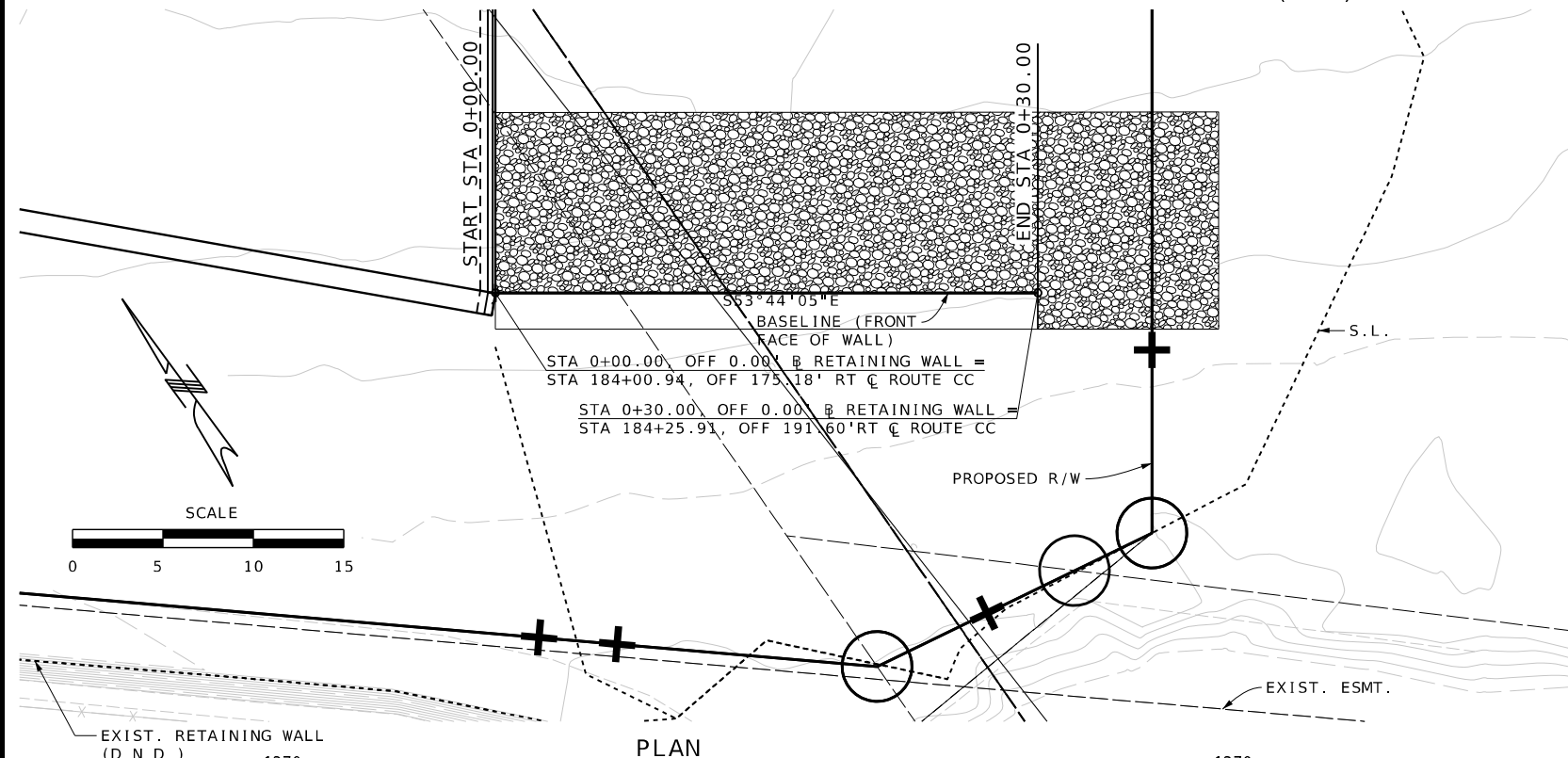
For strength limit state and extreme event limit state, the wall designer to confirm that the minimum Capacity to Demand Ratio (CDR) for bearing, sliding, overturning, eccentricity, and internal stability is greater than or equal to 1.0. MSE wall designer shall include this note on shop drawings.

The maximum applied factored bearing stress for the strength at the foundation level shall be shown on the shop drawings and shall be less than the factored bearing resistance.

Contractor shall include design  $\Phi$  (actual  $\Phi \geq 34^\circ$ ) and the total unit weight,  $\gamma$ , for the select granular backfill (reinforced backfill and wedge area backfill) for structural systems on shop drawings. Contractor shall identify source of select granular backfill material, submit proctor in accordance with AASHTO T 99 (ASTM D698) and gradation with the shop drawings. When backfill material is too coarse to develop a proctor curve the contractor shall determine the maximum dry density (relative density) in accordance with ASTM D4253 and ASTM D4254 and assume percent passing the 200 sieve for optimum water content.

Total unit weight,  $\gamma = (95\% \text{ compaction}) \times (\text{maximum dry density}) \times (1 + \text{optimum water content})$

Design  $\Phi = 34^\circ$  for the select granular backfill (reinforced backfill) for structural systems.



- (1) Wall contractor shall show the following items on the design drawings and/or on the fabricator shop drawings.
  - Leveling pad horizontal.
  - Leveling pad length and step elevations shall be based on wall manufacturer's recommendation. Top of leveling pad elevations shall not be higher than theoretical top of leveling pad elevations shown on these plans. Bottom of leveling pad shall be constructed on rock.

Estimated Quantities		
Item	Unit	Total
Mechanically Stabilized Earth Wall Systems	sq. foot	206
Select Granular Backfill For Structural Systems	cu. yard	49

MSE Wall Systems Data Table					
Proprietary Wall Systems		Combination Wall Systems			
Manufacturer	System	Facing Unit Manufacturer	Facing Unit	Geogrid Manufacturer	Geogrid

MSE Wall Systems Data Table is to be completed by MoDOT construction personnel to record the manufacturer of the proprietary wall system or the manufacturers of the combination wall system that was used for constructing the MSE wall.

RETAINING WALL ALONG ROUTE CC

ROUTE CC FROM ROUTE 65  
ABOUT 0.2 MILES EAST OF ROUTE 65  
BEGINNING STATION 182+81.07

SPECIAL SHEET  
RETAINING WALL  
SHEET 6 OF 8



DATE PREPARED	3/19/2026
ROUTE	CC
STATE	MO
DISTRICT	SW
SHEET NO.	19
COUNTY	CHRISTIAN
JOB NO.	J8S0736E
CONTRACT ID.	

PROJECT NO.	
BRIDGE NO.	A38612

DATE	DESCRIPTION

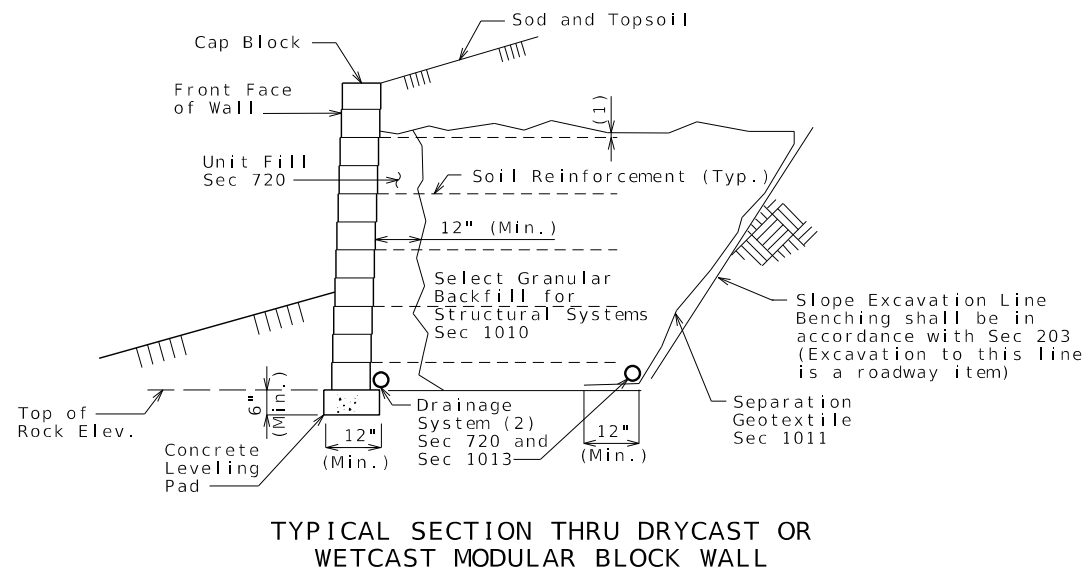
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

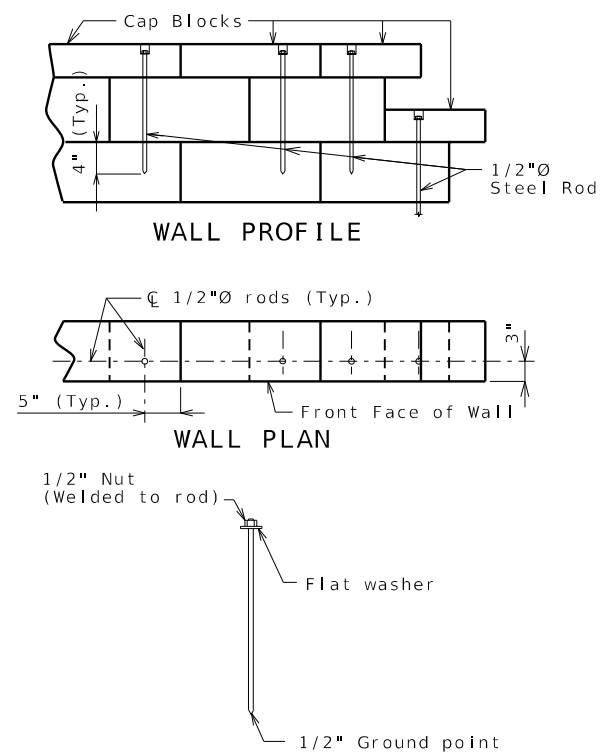
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

Designed Mar 2025  
Detailed June 2025  
Checked June 2025

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



TYPICAL SECTION THRU DRYCAST OR WETCAST MODULAR BLOCK WALL



DETAILS OF 1/2" THREADED ROD OR REINFORCING ROD

Notes for Drycast or Wetcast Modular Block Walls:

(1) Topmost layer of reinforcement shall be fully covered with select granular backfill for structural systems, as approved by the wall manufacturer, before placement of the Separation Geotextile.

(2) Minimum 6" diameter perforated PVC or PE pipe.

Manufacturer shall show drain details on design plans to be submitted as shown on MoDOT MSE wall plans and/or roadway plans.

Contractor shall modify the drain details as shown if it will improve flow as may be the case for stepped leveling pad, and for an uneven ground line (approval of the engineer required).

Holes shall be 5/8-inch round and extended 4 inches into the third layer of blocks, recessed 2 inches deep by 1 1/2 inches round.

Rods or reinforcing bars shall be secured by an approved resin anchor system in accordance with Sec 1039.

Recess hole shall be backfilled with non-shrink cement grout.

Permanent shims will be sparingly allowed to maintain horizontal and vertical control. The preferable shim shall be made of a plastic material that will not rust, stain, rot or leach onto the concrete and has a minimum compressive strength equal to block wall unit. Steel or wood shims will not be allowed. Shims shall not exceed 3/16 inch in thickness and shall distribute load in order to not induce stress into block wall units. No shim shall be used between the concrete leveling pad and the base course of the block wall.

**Design Unit Stresses:**

All concrete for leveling pad shall be Class B or B-1 with  $f'c = 4000$  psi.

The minimum compressive strength of concrete for precast modular (drycast and wetcast) block shall be 4,000 psi in accordance with Sec 1052.

**Excavation:**

Excavation quantities and pay items are given on the roadway plans. Excavation quantities are based on a soil reinforcement length of 5 ft. The soil reinforcement length may vary based upon the wall design selected by the contractor. Plan excavation quantities will be paid regardless of any actual quantities removed based on the soil reinforcement length and design selected.

The MSE wall system shall be built vertical.

The MSE wall system shall be built in accordance with Sec 720.

The MSE wall system shall be a drycast modular block or wetcast modular block wall system.

Precast modular panel, drycast modular block, wetcast modular block and coping (or capstone) reinforcement shall be epoxy coated.

A filter cloth meeting the requirements for a Separation Geotextile material shall be placed between the select granular backfill for structural systems and the backfill being retained by the mechanically stabilized earth wall system.

The contractor shall be solely responsible to coordinate construction of the wall with bridge and roadway construction and ensure that the bridge and roadway construction, resulting or existing obstructions, shall not impact the construction or performance of the wall. Soil reinforcement shall be designed and placed to avoid damage by pile driving, guardrail post installation, utility and sign foundations. (See Roadway and Bridge plans.)

Soil reinforcement shall be spaced to avoid roadway drop inlet behind wall.

All steel soil reinforcements shall be separated from other metallic elements by at least 3 inches.

The splay angle should be less than 15° and tensile capacity of splayed reinforcement shall be reduced by the cosine of the splay angle. Soil reinforcement shall clear the obstruction by at least 3 inches.

No reinforcement shall be left unconnected to the wall face or arbitrarily cut/bent in the field to avoid the obstruction.

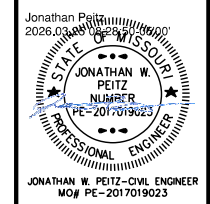
Where interference between the vertical obstruction and the soil reinforcement is unavoidable, the design of the wall near the obstruction may be modified using one of the alternatives in FHWA-NHI-10-024, Section 5.4.2. Show detail layout on the drawings. For wall designs with horizontal obstructions in reinforced soil mass, see FHWA-NHI-10-024, Section 5.4.3.

DRYCAST OR WETCAST MODULAR BLOCK WALL

DETAILS FOR GENERIC MSE WALL

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

Sheet No. 2 of 2



DATE PREPARED 3/24/2026

ROUTE CC STATE MO

DISTRICT SW SHEET NO. 20

COUNTY CHRISTIAN

JOB NO. J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

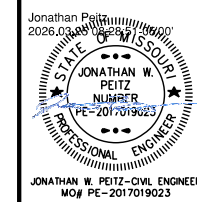
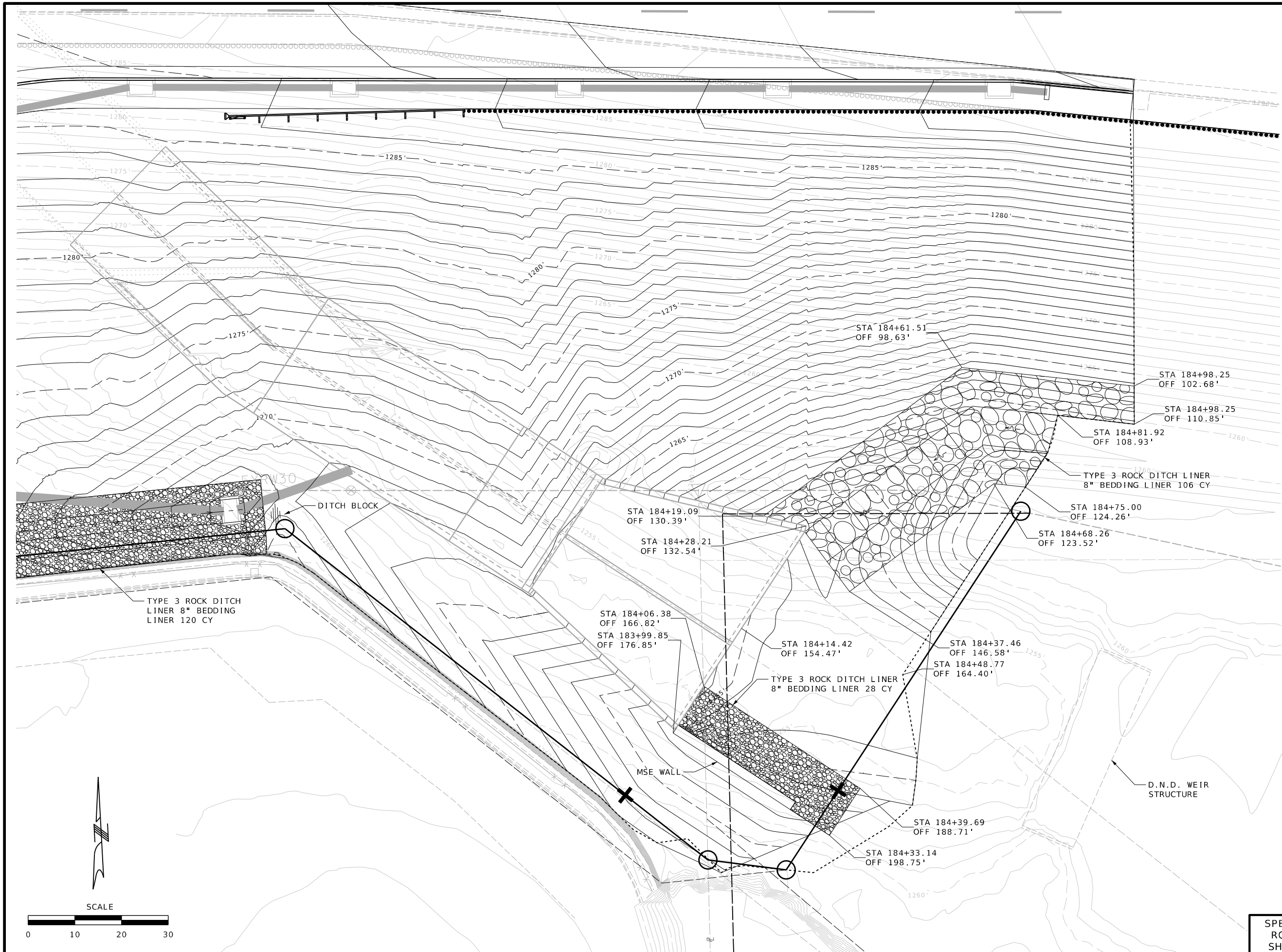


550 ST. LOUIS STREET SPRINGFIELD, MO 65806 PH. (417) 890-8802 CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET RETAINING WALL SHEET 7 OF 8

Detailed Checked

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



DATE PREPARED  
3/24/2026

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	21

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

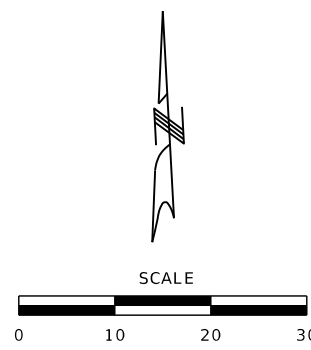
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**olsson**

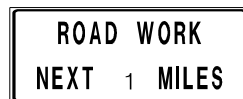
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

SPECIAL SHEET  
RCB GRADING  
SHEET 8 OF 8



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

SIGN LEGEND



GO20-1  
①



WO20-1  
②



WO20-5  
⑤



WO20-6a  
⑥

CENTER LANE

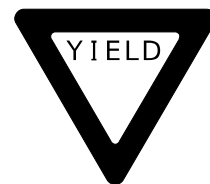
OR

LEFT LANE

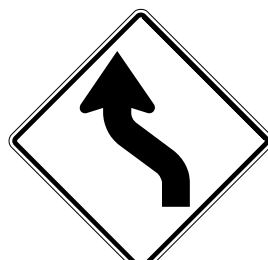
CENTER

OR

LEFT



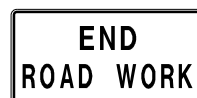
R1-2  
⑬



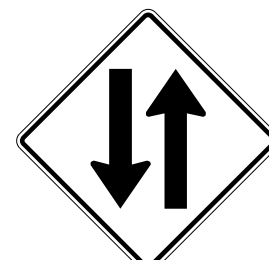
WO1-4L  
⑮



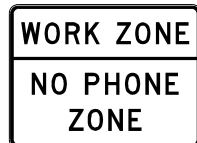
WO1-4R  
⑮



GO20-2  
⑲



WO6-3  
⑳



CONST-8  
⑤⑨



CONST-5-96  
⑧⑤

GENERAL NOTES

REMOVE OR COVER ALL CONFLICTING SIGNS, PAVEMENT MARKINGS, AND SIGNAL HEADS.  
MINIMUM SIGN SPACING IS 100' OR AS APPROVED BY THE ENGINEER.  
PROVIDE TEMPORARY CONSTRUCTION SAFETY FENCE AND SECURITY FENCING AS NEEDED TO PROTECT CONSTRUCTION STAFF AND THE PUBLIC FROM WORK ACTIVITIES AND OTHER HAZARDS.

COORDINATE WITH MODOT, WHERE APPLICABLE, IN ADVANCE OF NEW STAGE IMPLEMENTATION OR SHORT-TERM IMPACTS THAT MAY REQUIRE SIGNAL TIMING ADJUSTMENTS TO IMPROVE INTERSECTION CAPACITY.

COORDINATE WITH MODOT IN ADVANCE OF SPECIAL EVENTS. SHORT-TERM TRAFFIC ADJUSTMENTS INCLUDING USAGE OF PORTABLE CMS ARE TO BE IMPLEMENTED TO MINIMIZE TRAFFIC DISRUPTION.

SHORT-TERM OFF-PEAK AND WEEKEND CLOSURE DETOUR PLANS ARE TO BE DEVELOPED BY THE CONTRACTOR AND COORDINATED WITH MODOT.

SEE THE 2023 MUTCD CHAPTER 6P FOR ADDITIONAL TYPICAL APPLICATIONS (TAS).

CONTRACTOR TO IDENTIFY LOCATIONS FOR "TRUCK ENTRANCE" AND "TRUCK CROSSING" SIGNS AS NEEDED TO MAINTAIN SAFE SITE ACCESS.

TAPER LENGTHS AND SPACING FOR CHANNELIZERS

PERMANENT POSTED SPEED MPH	MINIMUM TAPER LENGTHS (T1) FOR LANE WIDTHS (W)			SHOULDER TAPER LENGTH T2 (BASED ON 10' SHOULDER)	BUFFER LENGTH (B)	MAXIMUM CHANNELIZER SPACING	
	W=10'	W=11'	W=12'			THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)

PERMANENT POSTED SPEED MPH	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	
		SA-1000'	SB-1500', SC-2640'
0-35	200' *	200' *	
40-45	350'	500'	
50-55	500'	1000'	
60-70	1000'		

\* FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100'.

MERGING TAPER LENGTH (L)  
L = WP 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

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER

PERMANENT POSTED SPEED MPH	MINIMUM TAPER LENGTHS (3)			END TREATMENT (4)
	10'	11'	12'	
< 40	160'	168'	176'	BARRIER HEIGHT TRANSITION
≥ 40	160'	168'	176'	APPROVED CRASH CUSHION

NOTES:

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10 FT SHOULDER.
- (4) CONCRETE BARRIER MAY BE INSTALLED AT AN 8:1 FLARE RATE FROM THE SHOULDER POINT TO THE LIMITS OF THE CLEAR ZONE WHERE THE SIDE SLOPE IS 6:1 OR FLATTER.

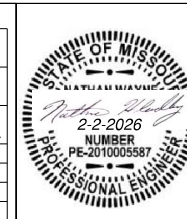
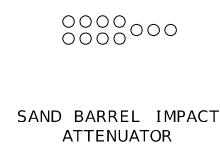
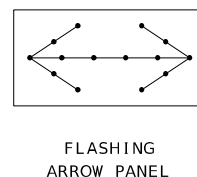
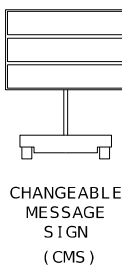
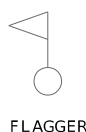
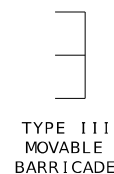
GENERAL NOTES:  
SEE STANDARD PLAN 616.10 FOR DETAILS AND DIMENSIONS.

CONES ALLOWABLE FOR DAYTIME OPERATIONS ON MINOR ROADS ONLY.

LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TEMPORARY TRAFFIC BARRIERS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS FOR CLEAR DISTANCE BEHIND BARRIER AND FIXED OBJECT ATTACHMENT.

TRAFFIC CONTROL LEGEND



DATE PREPARED: 2/2/2025  
ROUTE: CC MO  
DISTRICT: SW SHEET NO.: 22

COUNTY: CHRISTIAN  
JOB NO.: J8S0736E  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.: A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



MO State Certificate of Authority #: 2010005973

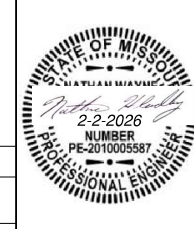
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 06-08-2016  
REVISED (ADA): 09-26-2025

SIGN SPACING FOR ADVANCE SIGN SERIES

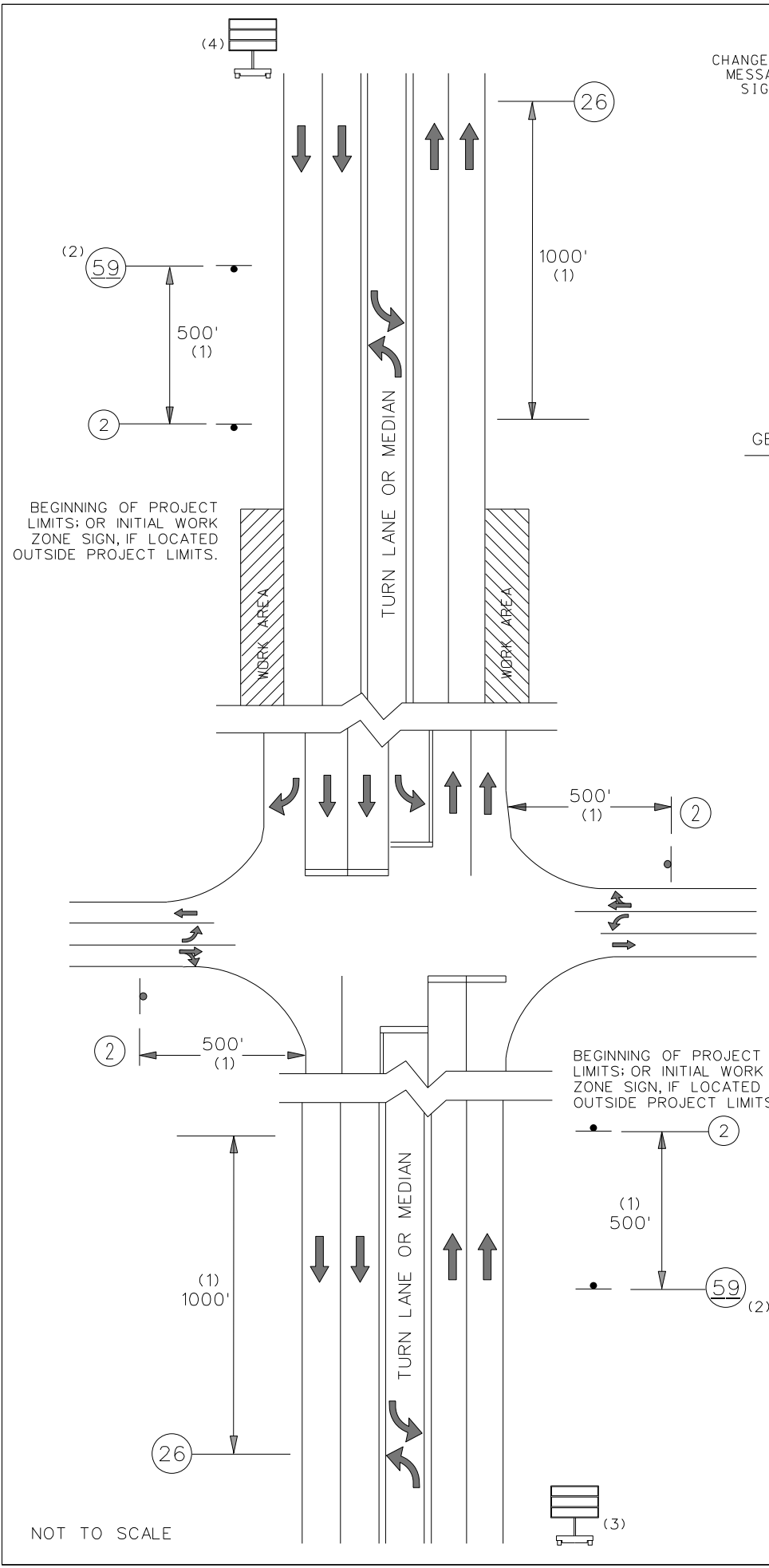
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.  
SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

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



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

DATE PREPARED: 2/2/2026  
 ROUTE: CC STATE: MO  
 DISTRICT: SW SHEET NO.: 23  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.: A38612



GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
8. ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (3) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.
- (4) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS.

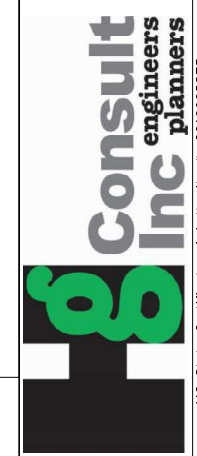
NOT TO SCALE

BEGIN/END OF PROJECT SIGNING  
MULTI-LANE



CONST-5-96 (4)  
(85)

TRAFFIC CONTROL PLAN  
TYPICAL APPLICATIONS  
SHEET 2 OF 9



MO State Certificate of Authority #: 2010005873

NOT TO SCALE

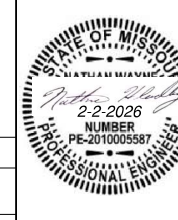
## BEGIN/END OF PROJECT SIGNING DUAL-LANE

EFFECTIVE: 06-08-2016  
REVISED (ADA): 04-22-2024

### SIGN SPACING FOR ADVANCE SIGN SERIES

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

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



DATE PREPARED  
**2/2/2026**

ROUTE  
**CC MO**

DISTRICT SHEET NO.  
**SW 24**

COUNTY  
**CHRISTIAN**

JOB NO.  
**J8S0736E**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
**A38612**

DESCRIPTION

DATE

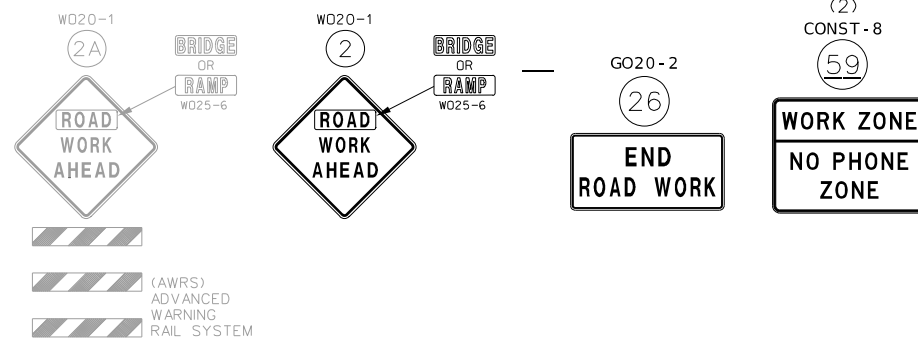
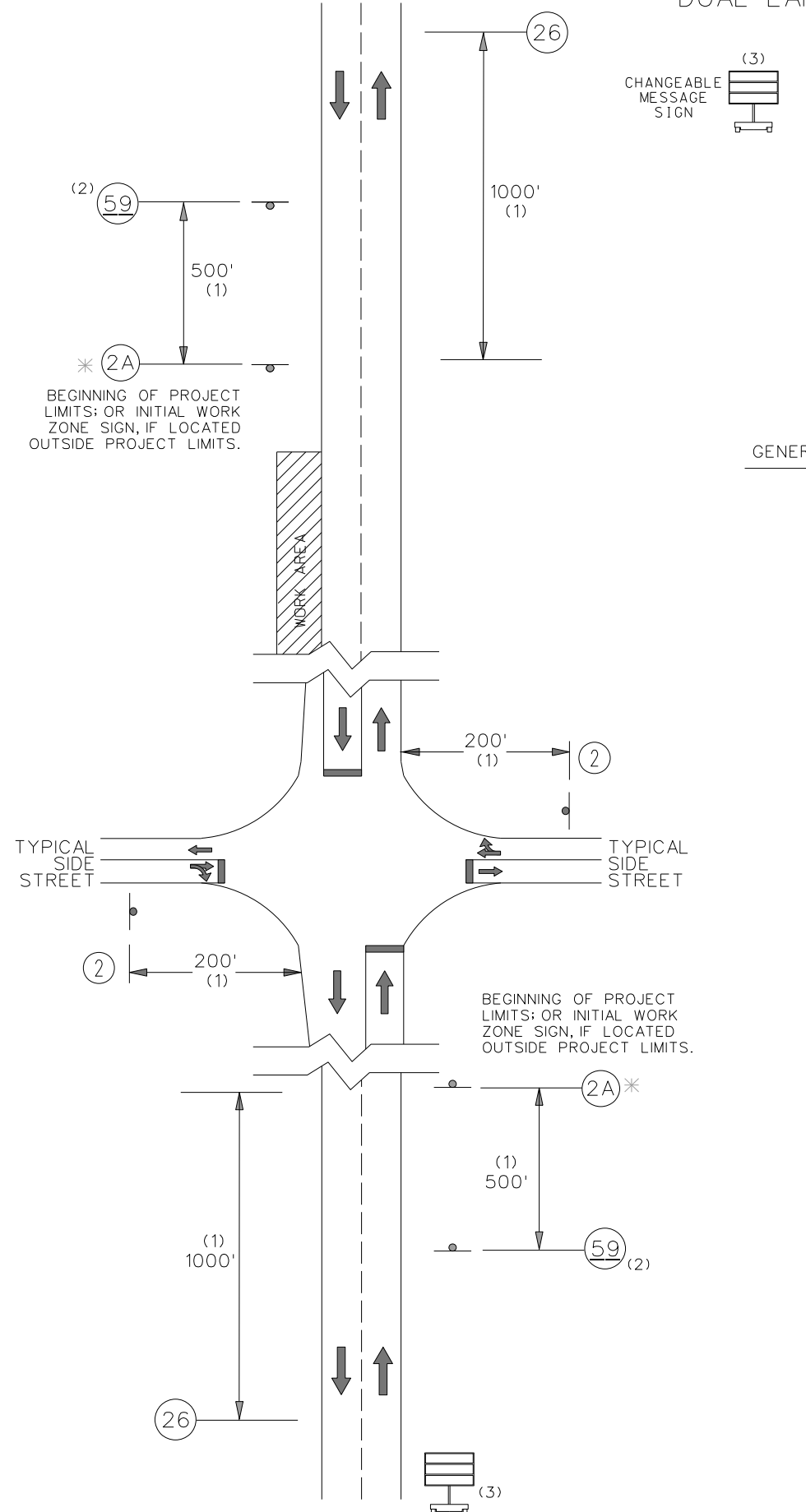
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**Consult Inc**  
engineers planners

MO State Certificate of Authority #: 2010005873

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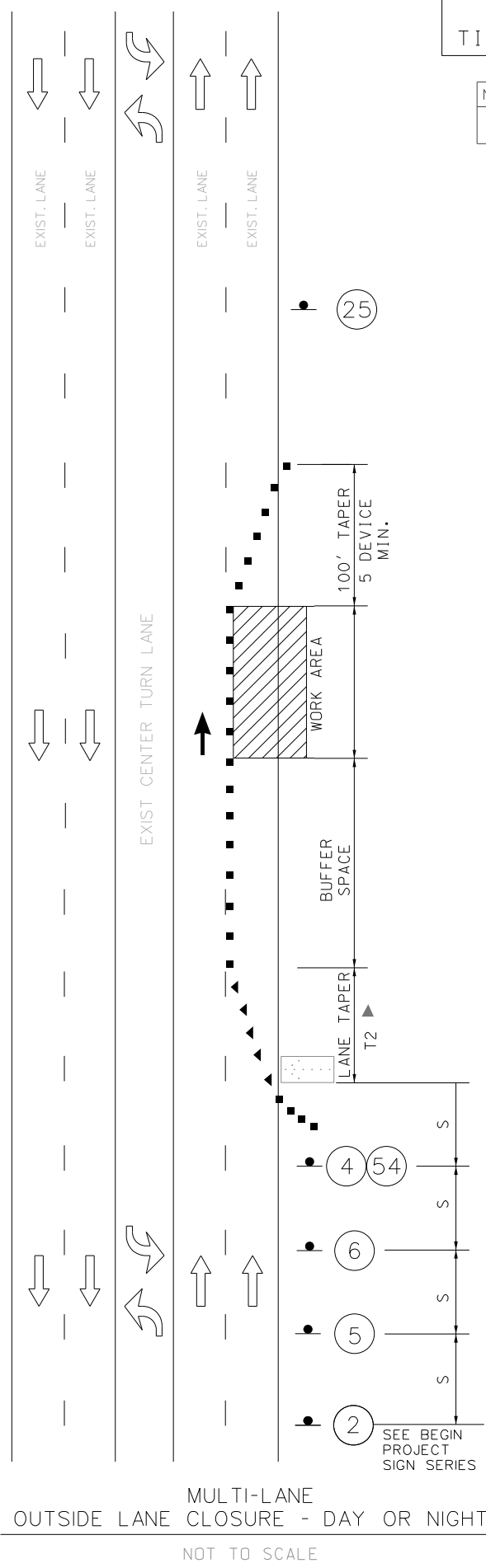


- GENERAL NOTES:**
1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
  2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
  3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
  4. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
  5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
  6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
  7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
  8. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
  9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  10. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
  11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
  12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
  13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
  14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.
- (3) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

SIGNING REFLECTS  
 DAY OR NIGHT  
 TIME WORKING HOURS

NIGHT TIME WORK HOURS  
 x PM - x AM



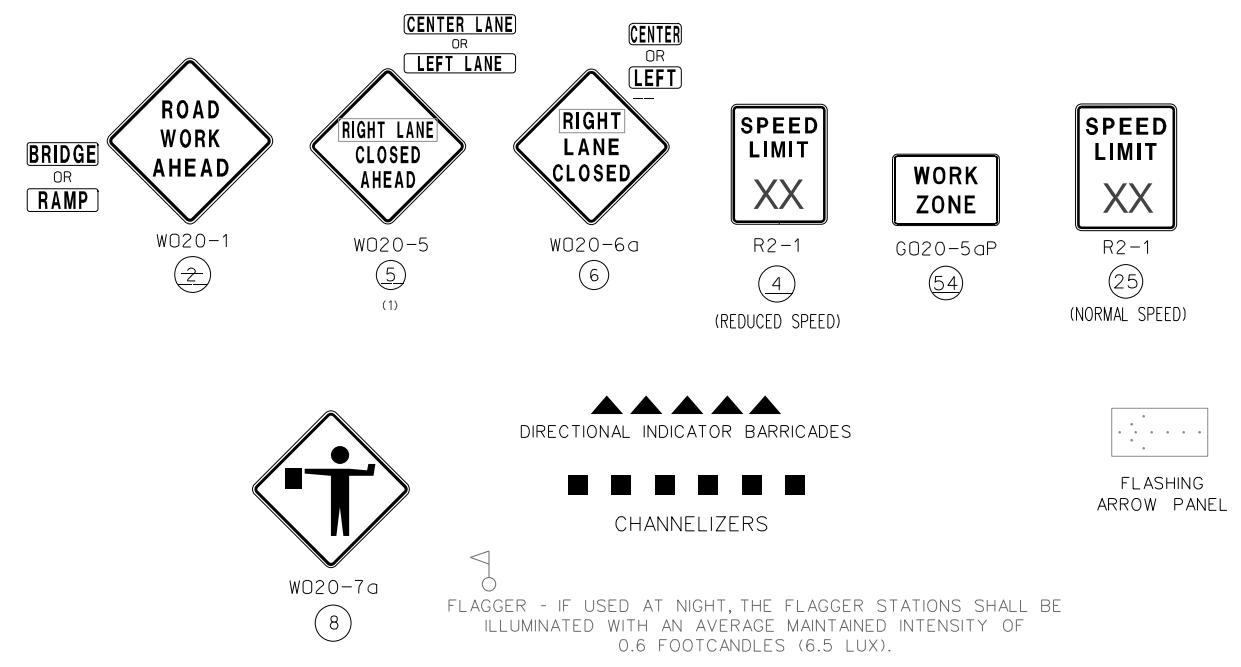
MULTI-LANE  
 OUTSIDE LANE CLOSURE - DAY OR NIGHT  
 NOT TO SCALE

Speed Limit <sup>1</sup> , mph	Taper Length <sup>2</sup> , ft.		Channelizing Spacing <sup>3</sup> , ft.	
	Shoulder <sup>4</sup> (T1)	Lane <sup>5</sup> (T2)	Tapers	Buffer/Work Areas
up to 35	70	245	35 <sup>6</sup>	40 <sup>6</sup>
40 to 45	150	540	40 <sup>6</sup>	80 <sup>6</sup>
50 to 55	185	660	50 <sup>7</sup>	80 <sup>7</sup>
60 to 70	235	840	60 <sup>7</sup>	120 <sup>7</sup>

<sup>1</sup> Speed limit is based on posted speed limit.  
<sup>2</sup> Taper lengths may be adjusted to accommodate crossroads, curves, intersections, ramps or other geometric features.  
<sup>3</sup> Channelizer spacing may be reduced to discourage traffic encroachment.  
<sup>4</sup> Based on 10 ft. shoulder width.  
<sup>5</sup> Based on 12 ft. lane width.  
<sup>6</sup> Spacing reduced to 1/2 at intersections.  
<sup>7</sup> Spacing may be reduced to 1/2 at intersections.

Speed Limit <sup>1</sup> , mph	Sign Spacing <sup>2</sup> , ft.	
	Undivided Highway	Divided Highway
up to 35	200 <sup>3</sup>	200 <sup>3</sup>
40 to 45	350	500
50 to 55	500	1000
60 to 70	1000	SA-1000 SB-1500 SC-2640

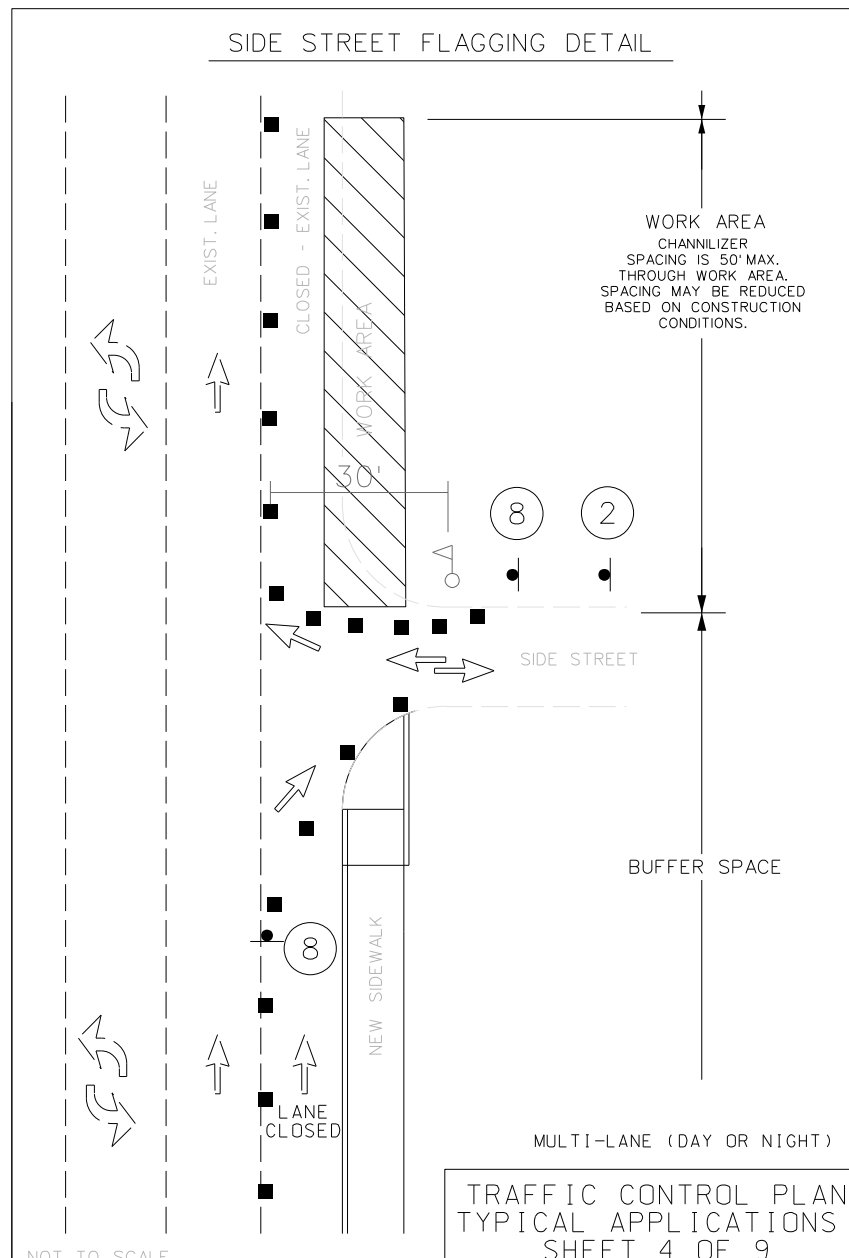
<sup>1</sup> Speed limit is based on posted speed limit.  
<sup>2</sup> Sign spacing may be adjusted, normally by increasing it, to accommodate field conditions and visibility.  
<sup>3</sup> For urban low speed, minimum recommended spacing in MUTCD is 100 ft.



NOTES:

- SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.
- ▲ IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)
- NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS, OR FLASHING ARROW PANEL.
- NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN TABLE.
- SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
- ALL SIGNS SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
- WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.
- LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.
- THE 50' MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

(1) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.



MULTI-LANE (DAY OR NIGHT)  
 TRAFFIC CONTROL PLAN  
 TYPICAL APPLICATIONS  
 SHEET 4 OF 9

DATE PREPARED <b>2/2/2026</b>	
ROUTE <b>CC</b>	STATE <b>MO</b>
DISTRICT <b>SW</b>	SHEET NO. <b>25</b>
COUNTY <b>CHRISTIAN</b>	
JOB NO. <b>J8S0736E</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. <b>A38612</b>	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MO State Certificate of Authority #: 2010005873

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



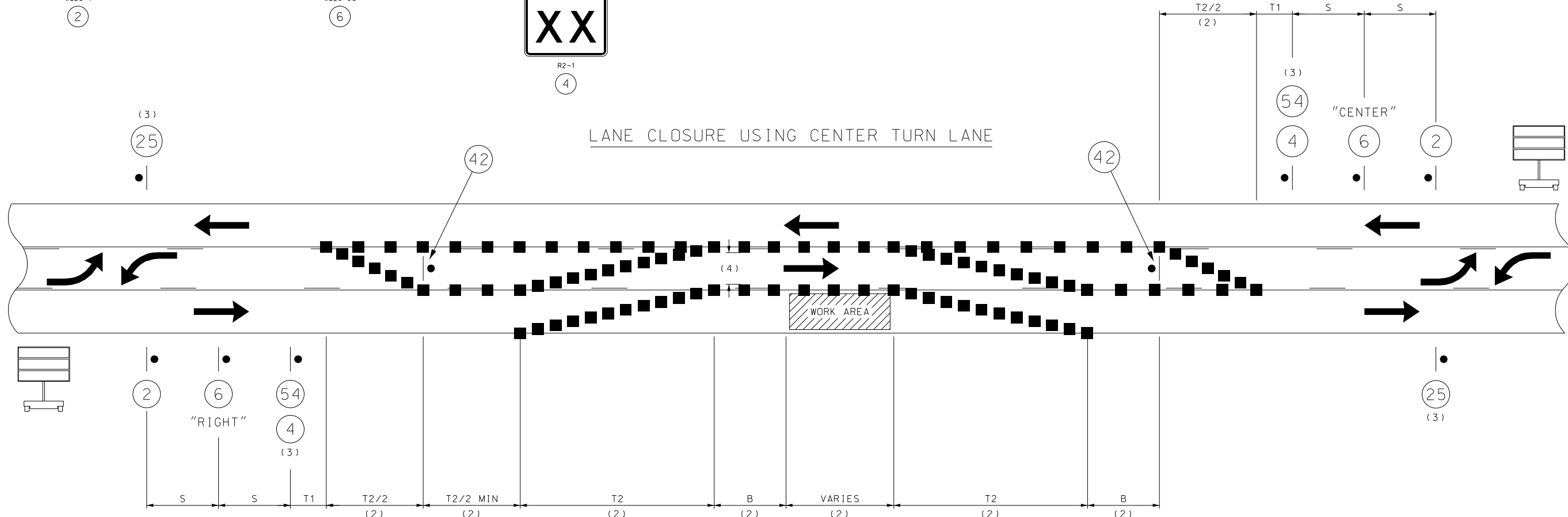
BRIDGE  
OR  
RAMP



CENTER  
OR  
LEFT



LANE CLOSURE USING CENTER TURN LANE



NOTE:

ALL LOCATIONS, DISTANCES, AND SPACING OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING SIGNING OR PAVEMENT MARKING THAT CONFLICTS WITH THE TRAFFIC CONTROL SHALL BE COMPLETELY COVERED OR REMOVED AT NO DIRECT PAY.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES. NO DIRECT PAY.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, CHANNELIZER SPACINGS SHALL BE ONE-HALF OF THE SPACINGS SHOWN IN THE TABLE.

CHANNELIZER SPACINGS SHALL BE REDUCED TO ONE-HALF OF THE SPACINGS SHOWN IN THE TABLE AT INTERSECTIONS.

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS OR FLASHING ARROW PANEL.

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

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDING NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

SEE STANDARD PLAN 616.10 FOR ADDITIONAL DETAILS.

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

(2) SEE TABLE FOR CHANNELIZER SPACING AND TAPER AND BUFFER LENGTHS.

(3) OMIT SPEED LIMIT SIGNS IN AREAS WHERE THE POSTED SPEED LIMIT IS LESS THAN 45 MPH.

(4) 10' MINIMUM

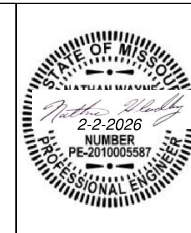
SPEED	SIGN SPACING (FT) (1)		CHANNELIZER SPACING (FT)		BUFFER LENGTH (FT) (B)	TAPER LENGTH (FT)		LONGITUDINAL TRANSITION (FT) (X)
	UNDIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)	TAPERS	BUFFER/WORK AREAS		SHOULDER <sup>1</sup> (T1)	LANE <sup>2</sup> (T2)	
0-35	200	200	35	40	280	70	245	490
40-45	350	500	40	80	400	150	540	1080
50-55	500	1000	50	80	560	185	660	1320
60-70	1000	SA - 1000 SB - 1500 SC - 2640	60	120	840	235	840	1680

<sup>1</sup>BASED ON 10' SHOULDER WIDTH  
<sup>2</sup>BASED ON 12' LANE WIDTH

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANNELIZER
- ☐ CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PLAN  
TYPICAL APPLICATIONS  
SHEET 5 OF 9



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 26
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

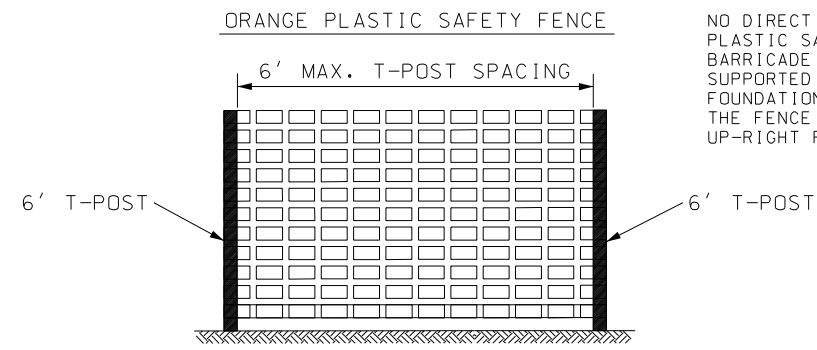
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

MO State Certificate of Authority #: 2010005973

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

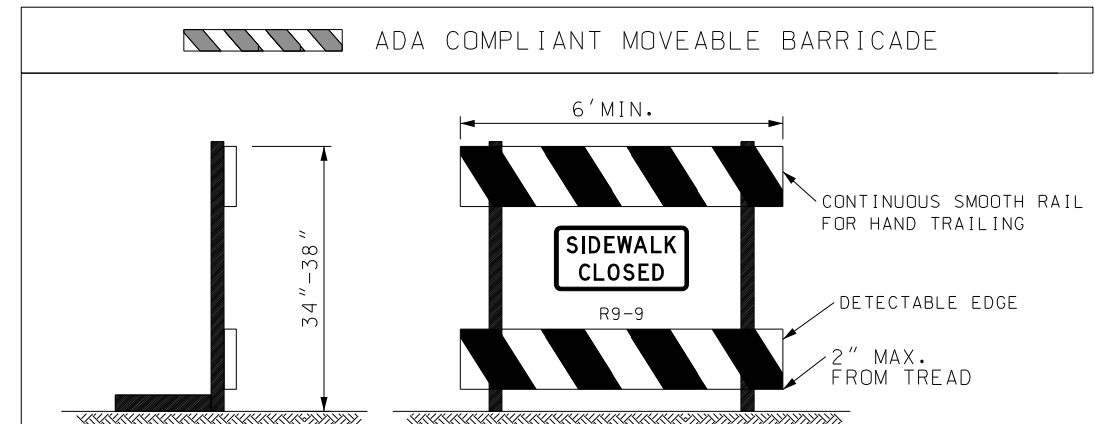
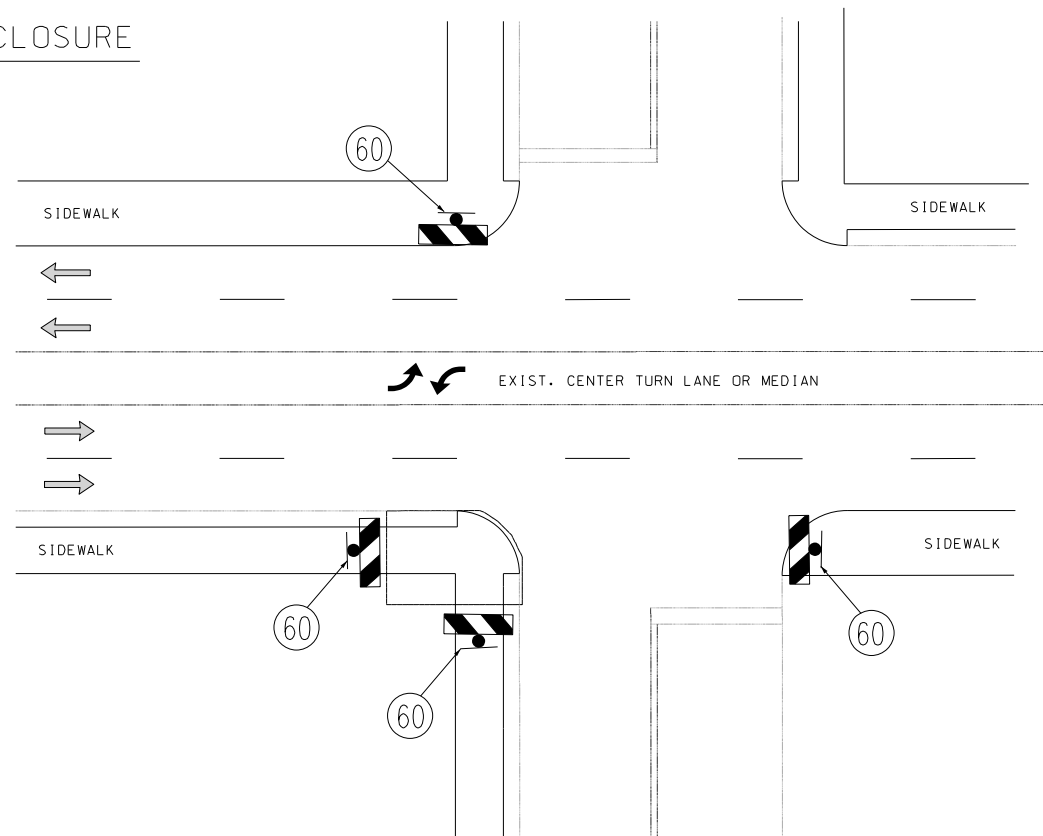
NOTES:

1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK & CURB RAMP AREAS.
2. SEE JSP's FOR PEDESTRIAN TRAFFIC DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" IN HEIGHT WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4' OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO THE MAIN BUILDING.
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH. ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH, NO MORE THAN ONE 5' SECTION OF SIDEWALK RAMP SHALL BE CLOSED LEADING TO THE MAIN BUILDING AT ANY TIME ADJACENT TO THE WORK AREA.

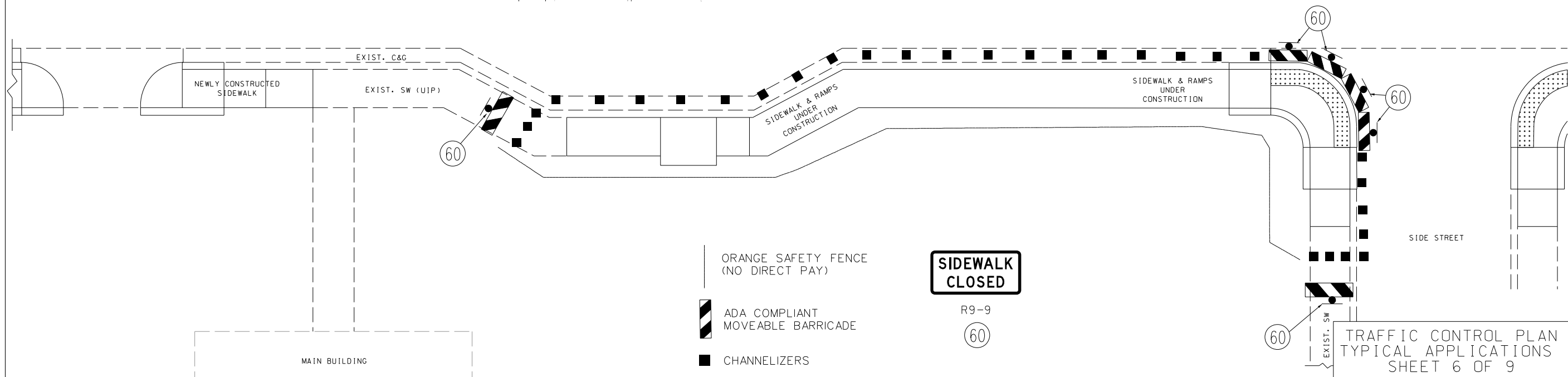


NO DIRECT PAY.  
 PLASTIC SAFETY NETTING USED FOR BARRICADE FENCING SHALL BE SUPPORTED WITH T-POST, ADEQUATE FOUNDATIONS, AND BALLAST SO THAT THE FENCE REMAINS TAUT AND IN AN UP-RIGHT POSITION.

MULTI-LANE  
 TYPICAL SIDEWALK CLOSURE  
 NOT TO SCALE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.



- ORANGE SAFETY FENCE (NO DIRECT PAY)
- ADA COMPLIANT MOVEABLE BARRICADE
- CHANNELIZERS

SIDEWALK  
 CLOSED

R9-9

60

TRAFFIC CONTROL PLAN  
 TYPICAL APPLICATIONS  
 SHEET 6 OF 9

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CONSULT ENGINEERS INC. PLANNERS

MO State Certificate of Authority #: 2010005873

Professional Engineer Seal: Nathan D. Kelly, No. 2-2-2026, PE-2010005587

DATE PREPARED: 2/2/2026

ROUTE: CC STATE: MO

DISTRICT: SW SHEET NO.: 27

COUNTY: CHRISTIAN

JOB NO.: J8S0736E

CONTRACT ID.:

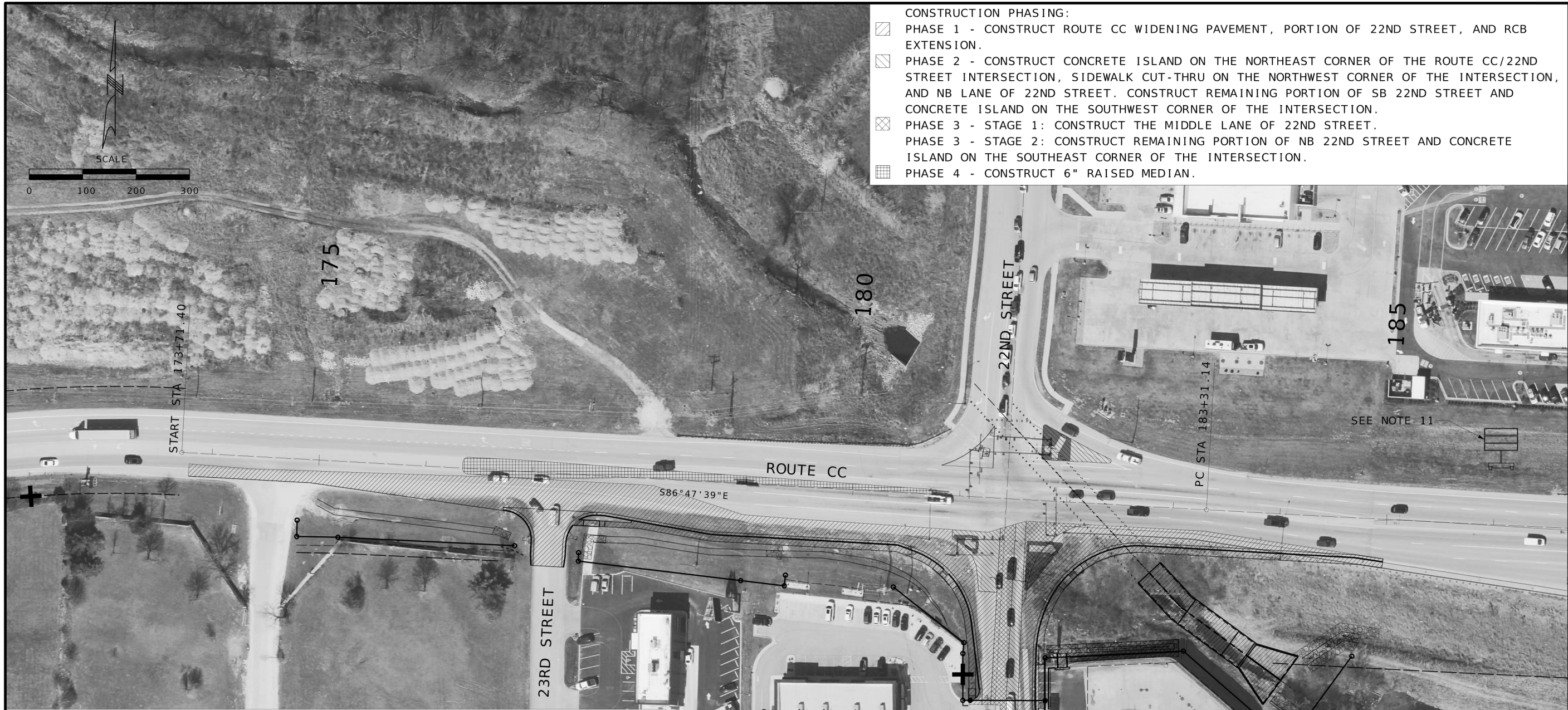
PROJECT NO.:

BRIDGE NO.: A38612

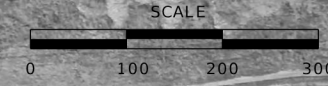
DESCRIPTION:

DATE:

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



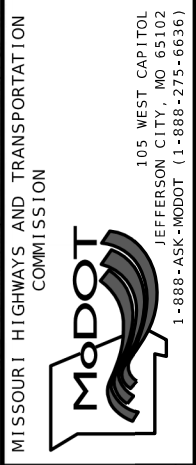
- CONSTRUCTION PHASING:**
- ▨ PHASE 1 - CONSTRUCT ROUTE CC WIDENING PAVEMENT, PORTION OF 22ND STREET, AND RCB EXTENSION.
  - ▩ PHASE 2 - CONSTRUCT CONCRETE ISLAND ON THE NORTHEAST CORNER OF THE ROUTE CC/22ND STREET INTERSECTION, SIDEWALK CUT-THRU ON THE NORTHWEST CORNER OF THE INTERSECTION, AND NB LANE OF 22ND STREET. CONSTRUCT REMAINING PORTION OF SB 22ND STREET AND CONCRETE ISLAND ON THE SOUTHWEST CORNER OF THE INTERSECTION.
  - ⊠ PHASE 3 - STAGE 1: CONSTRUCT THE MIDDLE LANE OF 22ND STREET.  
PHASE 3 - STAGE 2: CONSTRUCT REMAINING PORTION OF NB 22ND STREET AND CONCRETE ISLAND ON THE SOUTHEAST CORNER OF THE INTERSECTION.
  - ▤ PHASE 4 - CONSTRUCT 6" RAISED MEDIAN.



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 28
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

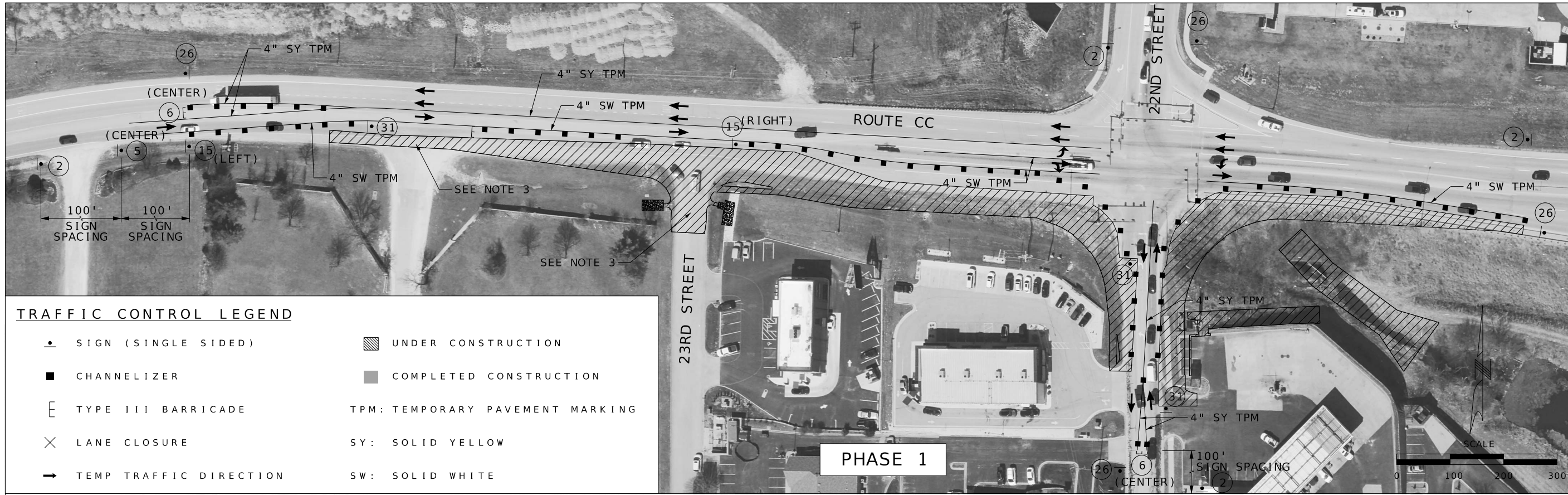
DATE	DESCRIPTION

- NOTES:**
1. CONTRACTOR SHALL PROVIDE ACCESS FOR ALL PROPERTIES TO THE EXTENT NEEDED BY THE PROPERTY AT ALL TIMES EXCEPT FOR MINIMUM INTERRUPTIONS AS REQUIRED BY CONSTRUCTION ON THAT FRONTAGE. CONTRACTOR SHALL COORDINATE TIMES OF ACCESS RESTRICTIONS WITH PROPERTY OWNERS.
  2. ALL TRAFFIC CONTROL PROCEDURES AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPT. OF TRANSPORTATION TRAFFIC CONTROL FOR FIELD OPERATIONS, MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION AND PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD).
  3. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ETC. TO SAFELY CHANNEL OR DIRECT TRAFFIC. WHEN NECESSARY, FLAGGER SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES. FLAGGER AHEAD SIGN REQUIRED IN ADVANCE OF FLAG-MEN EXCEPT DURING BRIEF PERIODS AND IN EMERGENCY SITUATIONS.
  4. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND BE REMOVED IMMEDIATELY THEREAFTER.
  5. CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS WHEN NECESSARY SUCH AS WATCH FOR TRUCK TURNING, TRUCKS CROSSING, ETC. AND PLACE FLAG-MEN AS DIRECTED BY THE ENGINEER ALONG PUBLIC ROADS OR CROSSING OF ROADS.
  6. NO OPEN CUTS SHALL BE LEFT UNPROTECTED WHEN THERE IS NO CONSTRUCTION ACTIVITY AT THE WORK SITE.
  7. TEMPORARY LANES SHALL BE A MINIMUM OF 10' WIDE.
  8. NO PAVEMENT FOR ANY DEVIATION FROM THE TRAFFIC CONTROL PLANS UNLESS APPROVED BY THE ENGINEER AND/OR OWNER.
  9. THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR DURING CONSTRUCTION. ANY ADDITIONAL QUANTITIES OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THE CONTRACT, NECESSARY BASED ON CONTRACTOR'S SELECTED MEANS AND METHODS OF CONSTRUCTION, OR AS ORDERED BY THE ENGINEER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND BE INCLUDED IN THE CONTRACT LUMP SUM BID PRICE FOR "TEMPORARY TRAFFIC CONTROL".
  10. CONTRACTOR SHALL MAINTAIN TEMPORARY DRAINAGE DURING CONSTRUCTION.
  11. CONTRACTOR SHALL COORDINATE WITH MODOT ON PLACEMENT OF CHANGEABLE MESSAGE SIGNS (CMS).



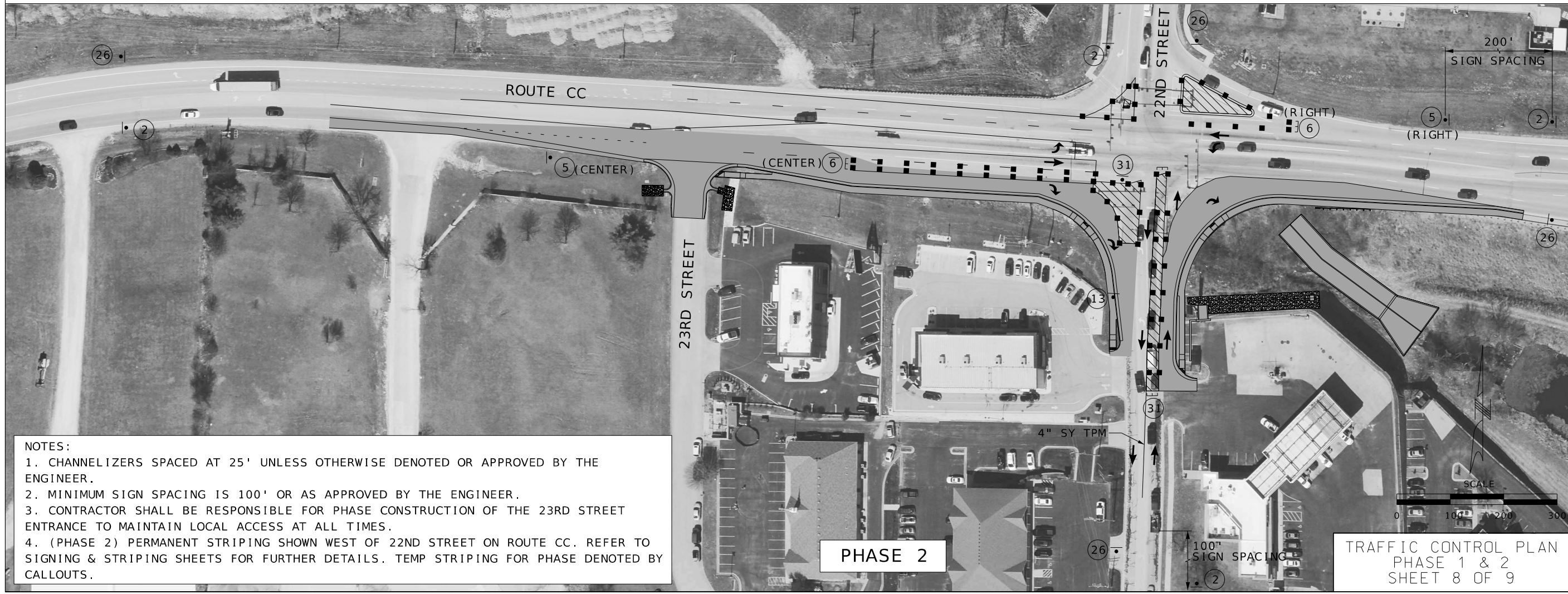
TRAFFIC CONTROL PLAN  
OVERVIEW  
SHEET 7 OF 9

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



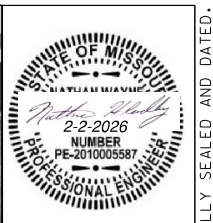
**TRAFFIC CONTROL LEGEND**

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E TYPE III BARRICADE
- × LANE CLOSURE
- TEMP TRAFFIC DIRECTION
- ▨ UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TPM: TEMPORARY PAVEMENT MARKING
- SY: SOLID YELLOW
- SW: SOLID WHITE



**NOTES:**

1. CHANNELIZERS SPACED AT 25' UNLESS OTHERWISE DENOTED OR APPROVED BY THE ENGINEER.
2. MINIMUM SIGN SPACING IS 100' OR AS APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PHASE CONSTRUCTION OF THE 23RD STREET ENTRANCE TO MAINTAIN LOCAL ACCESS AT ALL TIMES.
4. (PHASE 2) PERMANENT STRIPING SHOWN WEST OF 22ND STREET ON ROUTE CC. REFER TO SIGNING & STRIPING SHEETS FOR FURTHER DETAILS. TEMP STRIPING FOR PHASE DENOTED BY CALLOUTS.



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 29
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

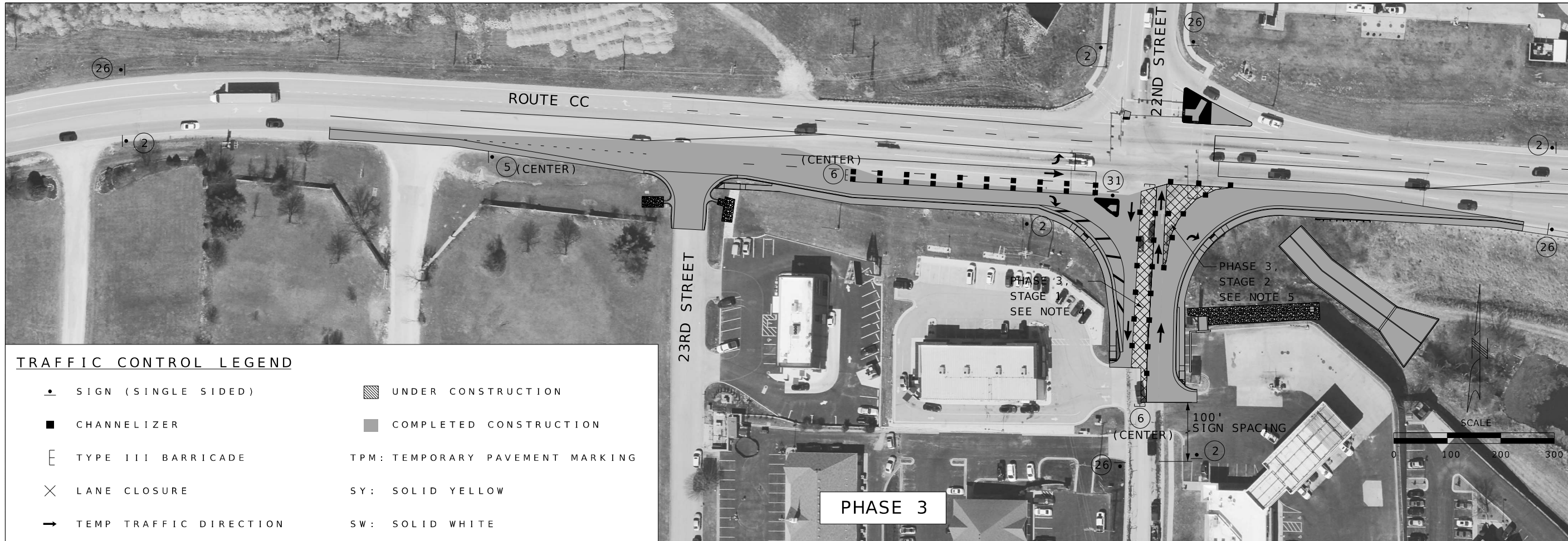
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MO State Certificate of Authority #: 2010005873

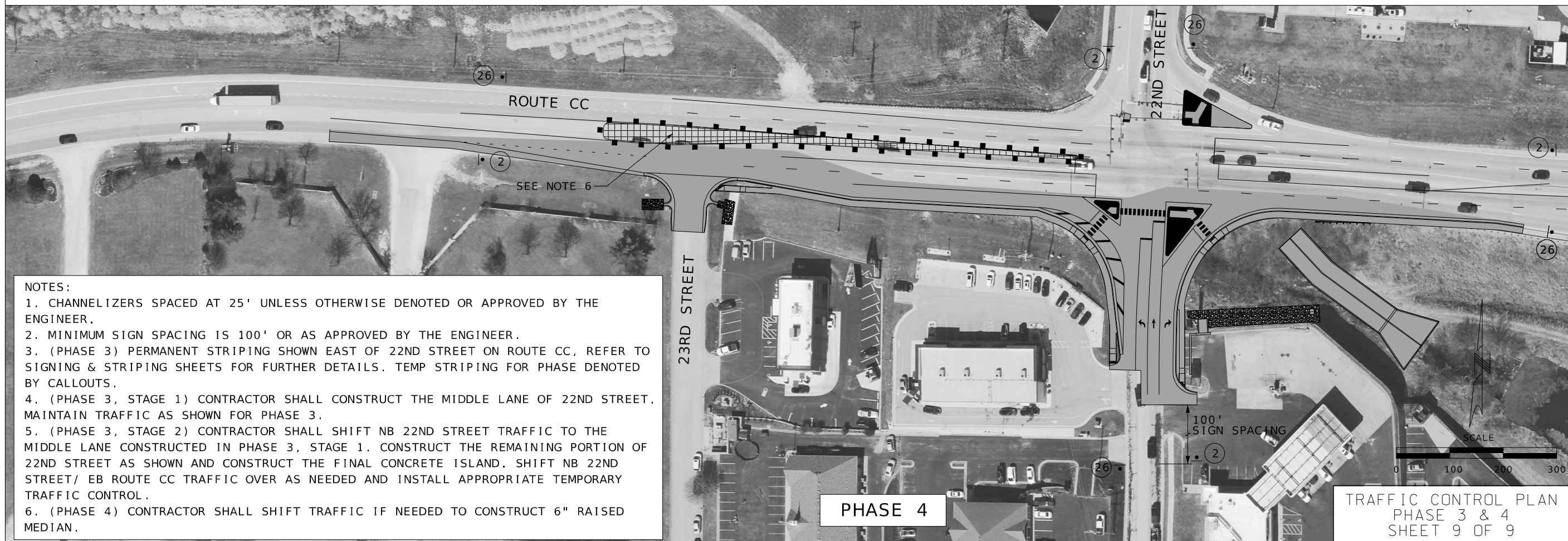
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



**TRAFFIC CONTROL LEGEND**

- SIGN (SINGLE SIDED)
- CHANNELIZER
- E TYPE III BARRICADE
- X LANE CLOSURE
- TEMP TRAFFIC DIRECTION
- ▨ UNDER CONSTRUCTION
- COMPLETED CONSTRUCTION
- TPM: TEMPORARY PAVEMENT MARKING
- SY: SOLID YELLOW
- SW: SOLID WHITE

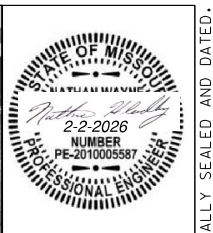
PHASE 3



PHASE 4

TRAFFIC CONTROL PLAN  
PHASE 3 & 4  
SHEET 9 OF 9

- NOTES:
1. CHANNELIZERS SPACED AT 25' UNLESS OTHERWISE DENOTED OR APPROVED BY THE ENGINEER.
  2. MINIMUM SIGN SPACING IS 100' OR AS APPROVED BY THE ENGINEER.
  3. (PHASE 3) PERMANENT STRIPING SHOWN EAST OF 22ND STREET ON ROUTE CC, REFER TO SIGNING & STRIPING SHEETS FOR FURTHER DETAILS. TEMP STRIPING FOR PHASE DENOTED BY CALLOUTS.
  4. (PHASE 3, STAGE 1) CONTRACTOR SHALL CONSTRUCT THE MIDDLE LANE OF 22ND STREET. MAINTAIN TRAFFIC AS SHOWN FOR PHASE 3.
  5. (PHASE 3, STAGE 2) CONTRACTOR SHALL SHIFT NB 22ND STREET TRAFFIC TO THE MIDDLE LANE CONSTRUCTED IN PHASE 3, STAGE 1. CONSTRUCT THE REMAINING PORTION OF 22ND STREET AS SHOWN AND CONSTRUCT THE FINAL CONCRETE ISLAND. SHIFT NB 22ND STREET/ EB ROUTE CC TRAFFIC OVER AS NEEDED AND INSTALL APPROPRIATE TEMPORARY TRAFFIC CONTROL.
  6. (PHASE 4) CONTRACTOR SHALL SHIFT TRAFFIC IF NEEDED TO CONSTRUCT 6" RAISED MEDIAN.



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 30
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

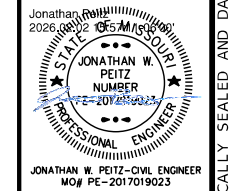
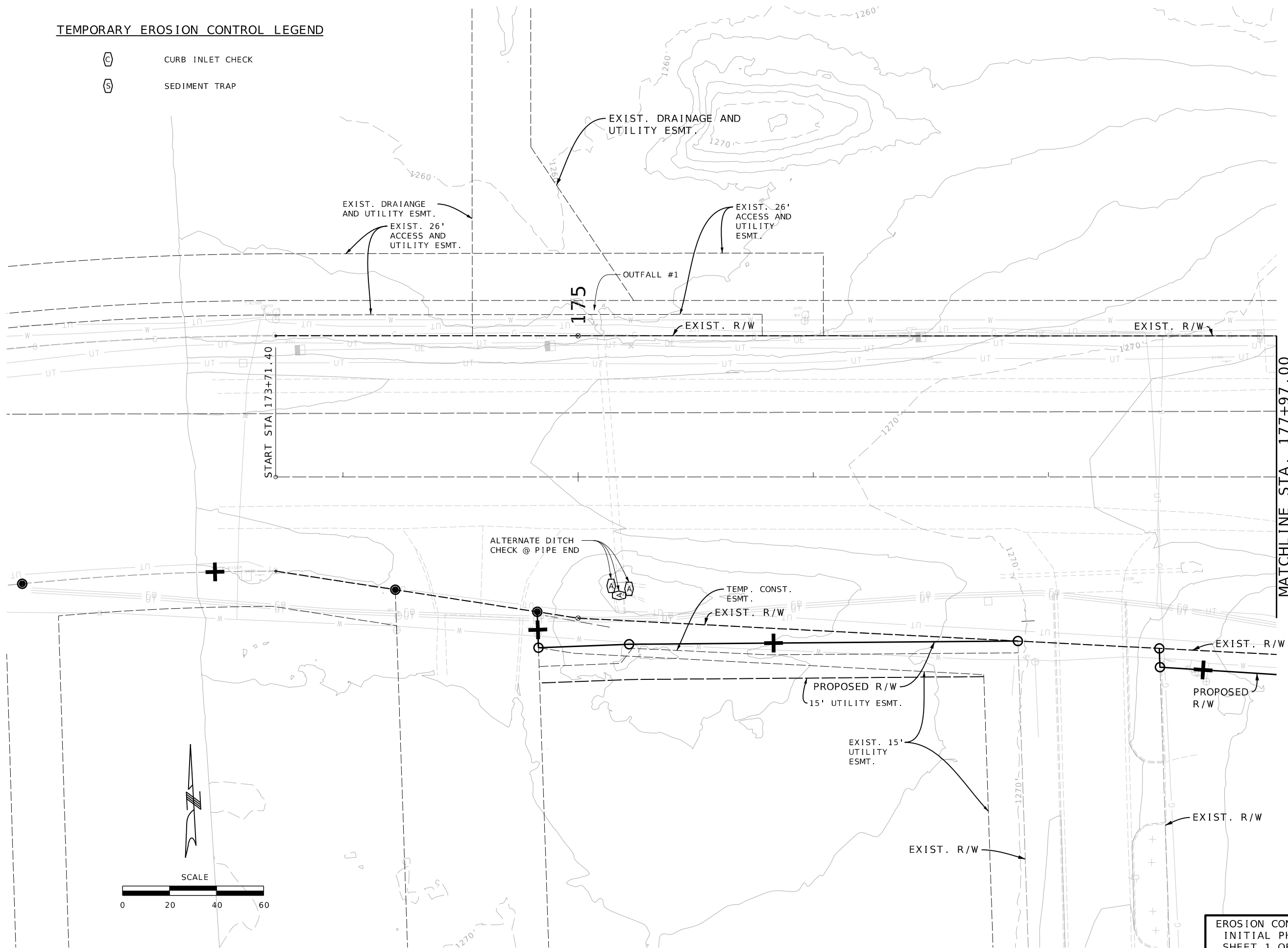
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

MO State Certificate of Authority #: 2010005873

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

**TEMPORARY EROSION CONTROL LEGEND**

-  CURB INLET CHECK
-  SEDIMENT TRAP



DATE PREPARED  
2/2/2026

ROUTE STATE  
CC MO  
DISTRICT SHEET NO.  
SW 31

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E


CONTRACT ID.

PROJECT NO.


BRIDGE NO.  
A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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





550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

EROSION CONTROL  
INITIAL PHASE  
SHEET 1 OF 10

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

**TEMPORARY EROSION CONTROL LEGEND**

-  CURB INLET CHECK
-  SEDIMENT TRAP

EXIST. 15' DRAINAGE & UTILITY ESMT.

EXIST. DRAINAGE ESMT.

EXIST. 60' CHANNEL CLEANOUT ESMT.

EXIST. R/W

180

EXIST. 30' ELECTRIC ESMT.

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. 16.5' ESMT. TO SOUTHWESTERN BELL TELEPHONE COMPANY

PIPE LOCATION IS APPROXIMATE

MATCHLINE STA. 177+97.00

MATCHLINE STA. 183+37.00

S86°47'39"E

PC STA 183+31.14

PROPOSED R/W

EXIST. R/W

PROPOSED R/W

TEMP. CONST. ESMT.

EXIST. R/W

PROPOSED R/W

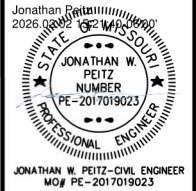
TEMP. CONST. ESMT.

PROPOSED R/W

TEMP. CONST. ESMT.

EXIST. R/W

EROSION CONTROL INITIAL PHASE SHEET 2 OF 10



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 32
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



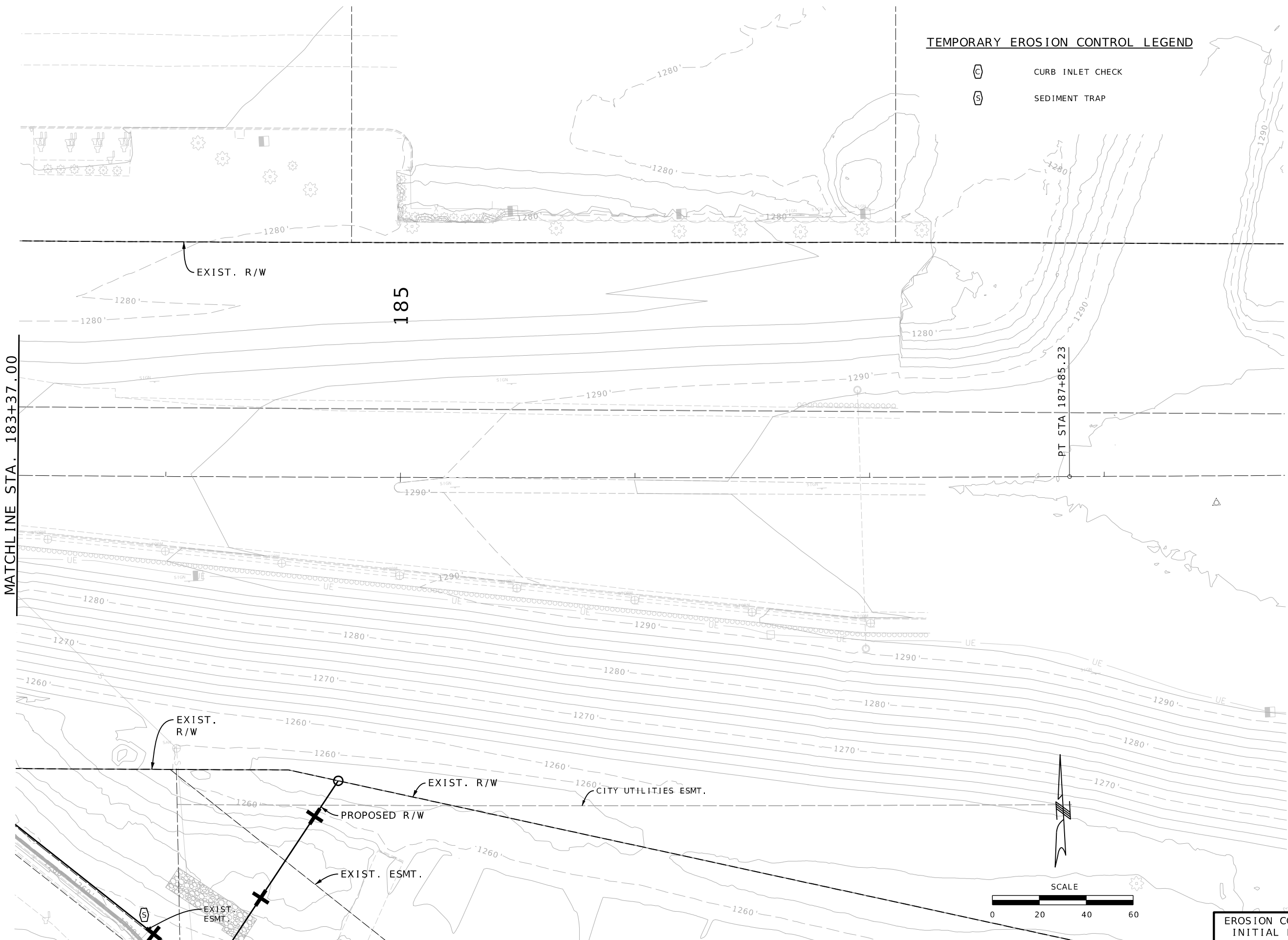
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)





550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

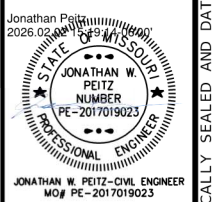
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE STA. 183+37.00



TEMPORARY EROSION CONTROL LEGEND


-  CURB INLET CHECK
-  SEDIMENT TRAP



DATE PREPARED	
2/2/2026	
ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	33
COUNTY	
CHRISTIAN	
JOB NO.	
J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



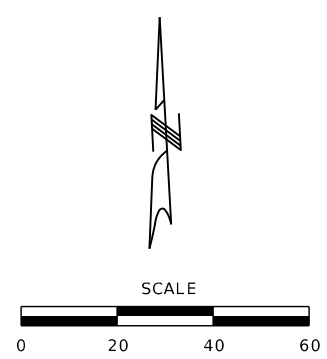
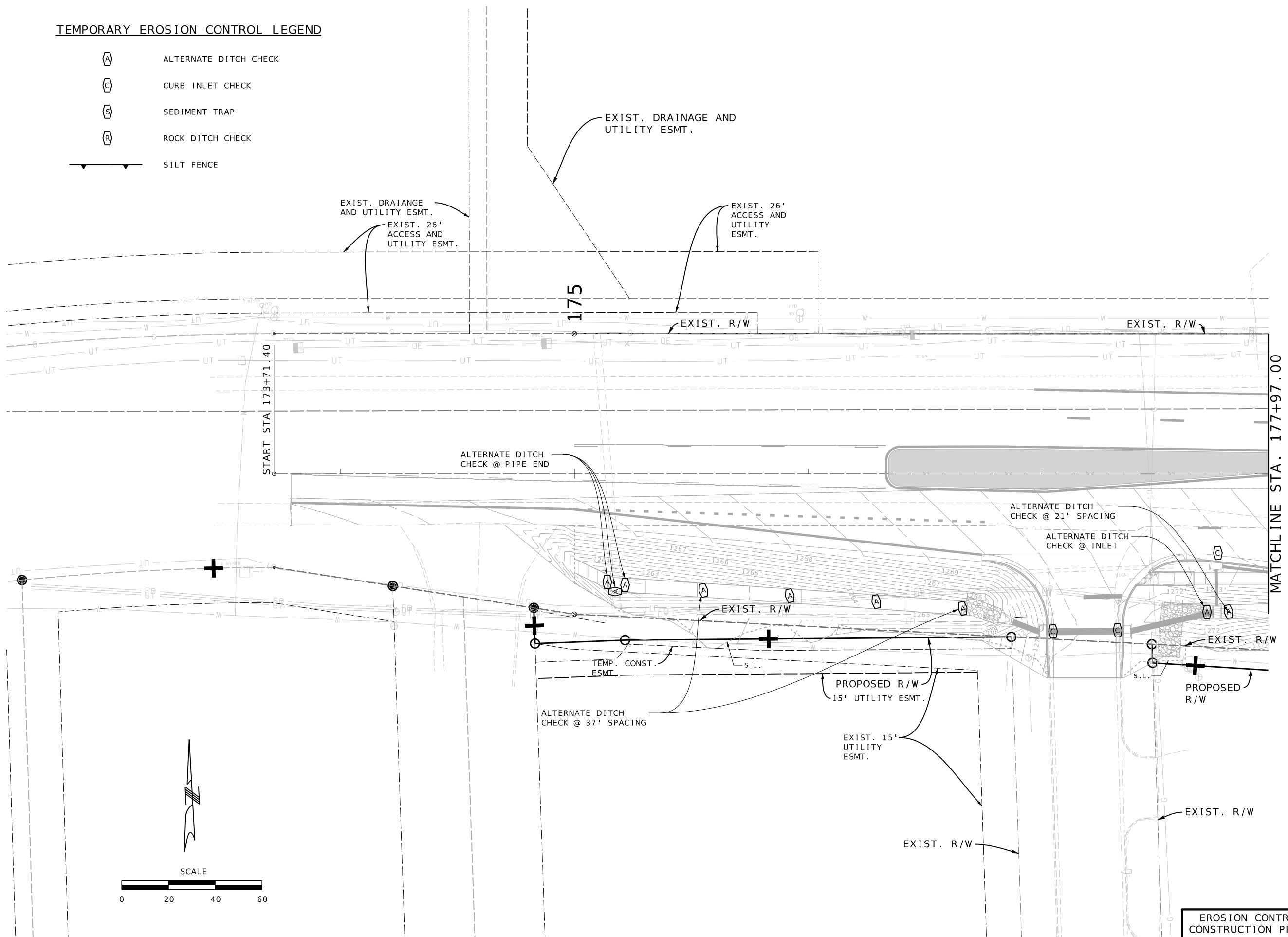
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

EROSION CONTROL INITIAL PHASE SHEET 3 OF 10

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

**TEMPORARY EROSION CONTROL LEGEND**

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



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 34
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

EROSION CONTROL CONSTRUCTION PHASE SHEET 4 OF 10

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

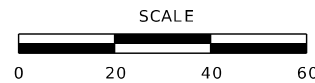
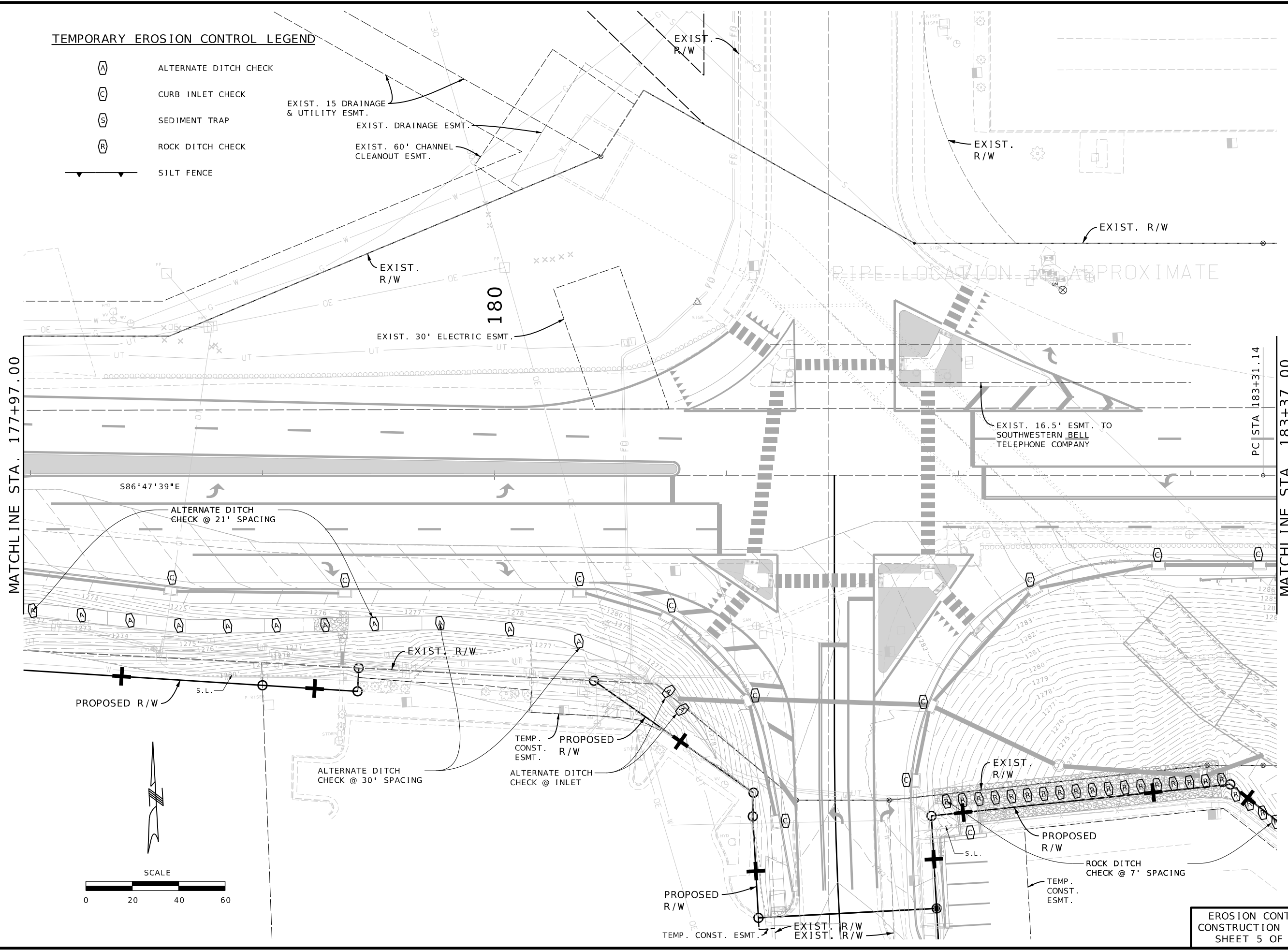
**TEMPORARY EROSION CONTROL LEGEND**

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

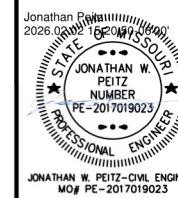
EXIST. 15 DRAINAGE & UTILITY ESMT.  
 EXIST. DRAINAGE ESMT.  
 EXIST. 60' CHANNEL CLEANOUT ESMT.

MATCHLINE STA. 177+97.00

MATCHLINE STA. 183+37.00



EROSION CONTROL  
 CONSTRUCTION PHASE  
 SHEET 5 OF 10



DATE PREPARED  
2/2/2026

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	35

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

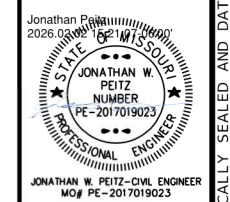
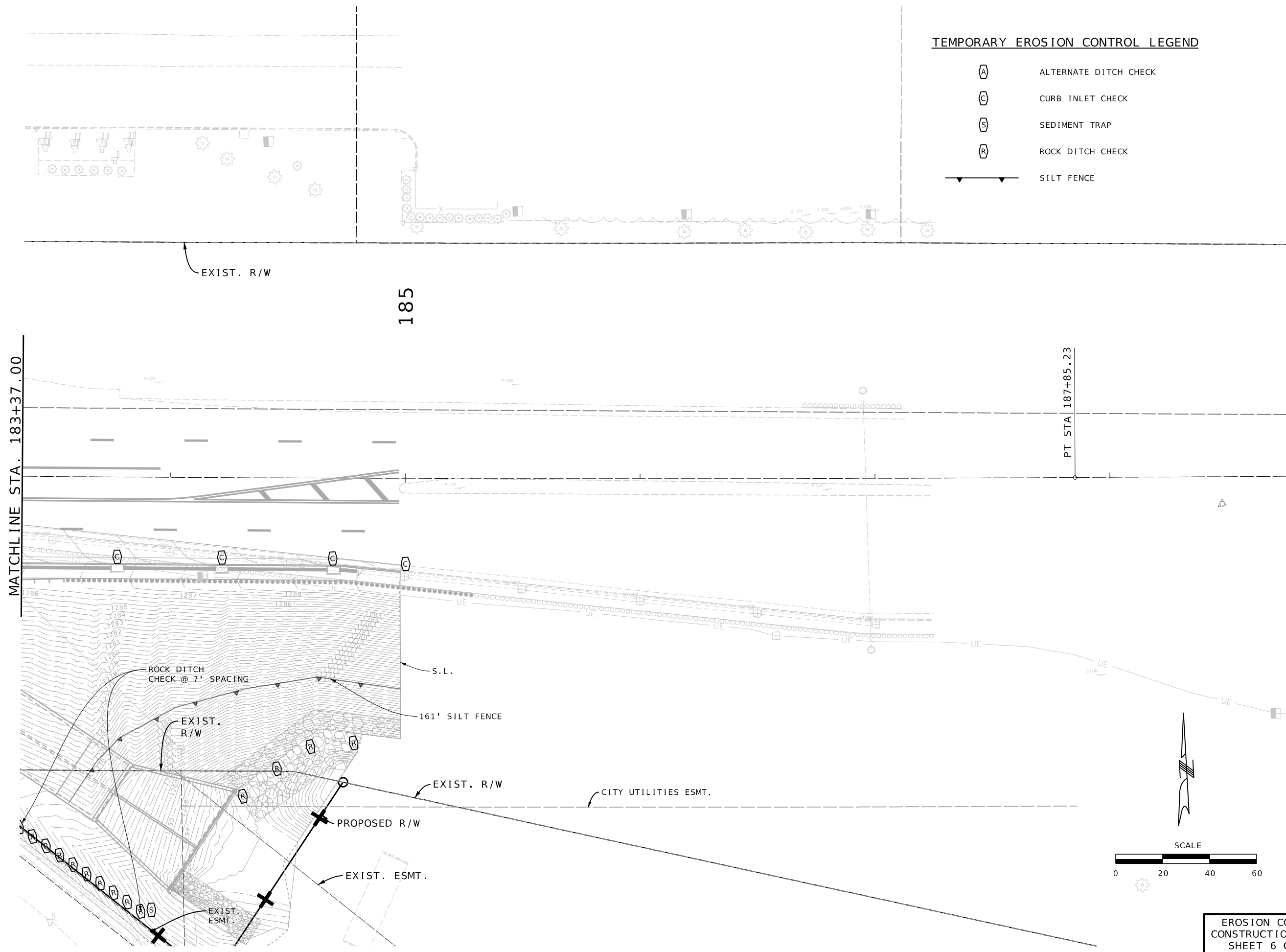
**Olsson**

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF  
 AUTHORITY NO. 001592

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

**TEMPORARY EROSION CONTROL LEGEND**

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (S) SEDIMENT TRAP
- (R) ROCK DITCH CHECK
- ▲— SILT FENCE



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 36
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




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

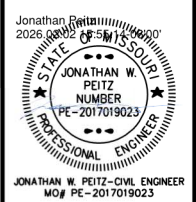
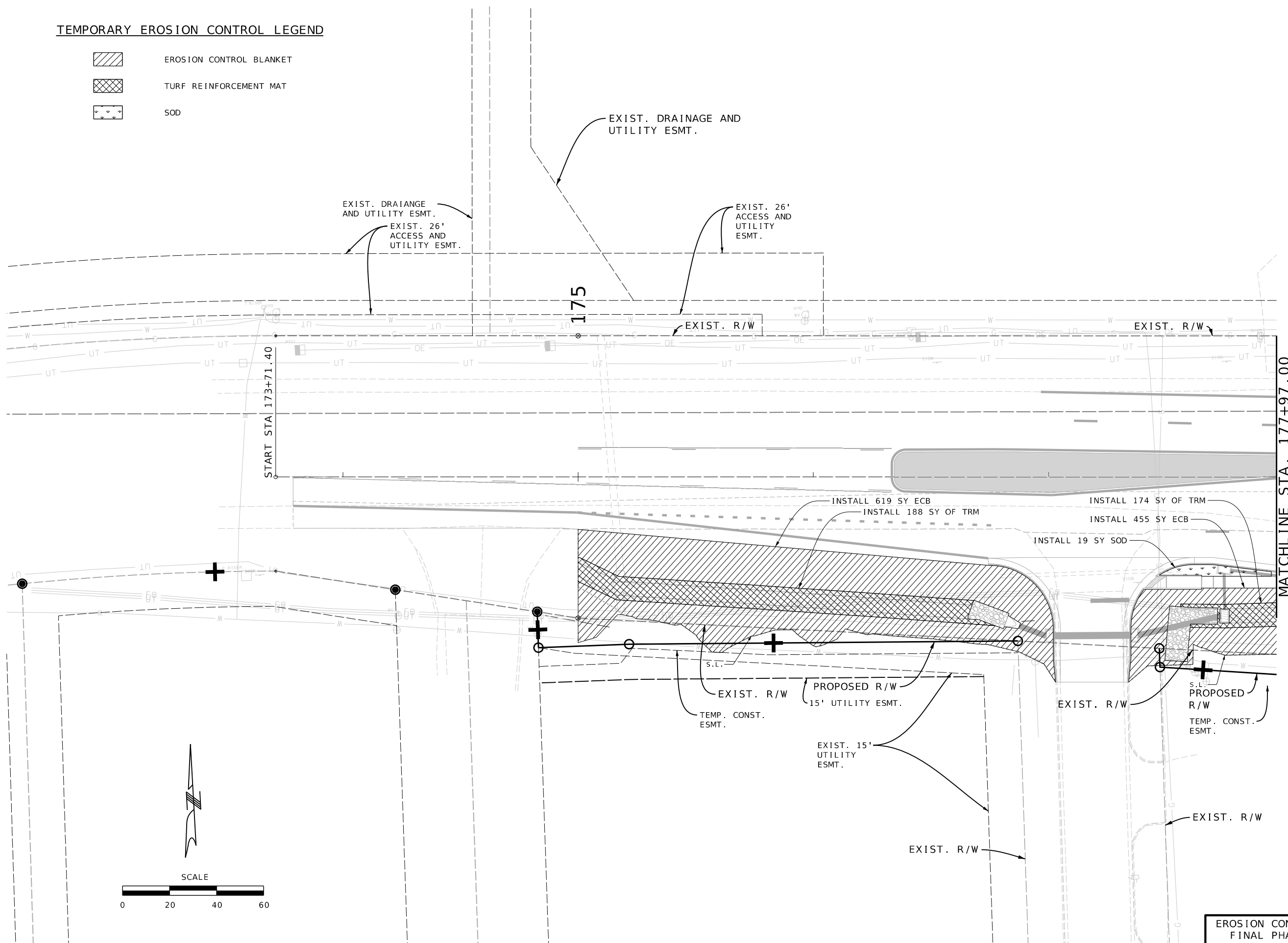
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

EROSION CONTROL  
CONSTRUCTION PHASE  
SHEET 6 OF 10

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

**TEMPORARY EROSION CONTROL LEGEND**

-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  SOD




DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 37
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION



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

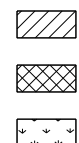


550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

EROSION CONTROL  
FINAL PHASE  
SHEET 7 OF 10

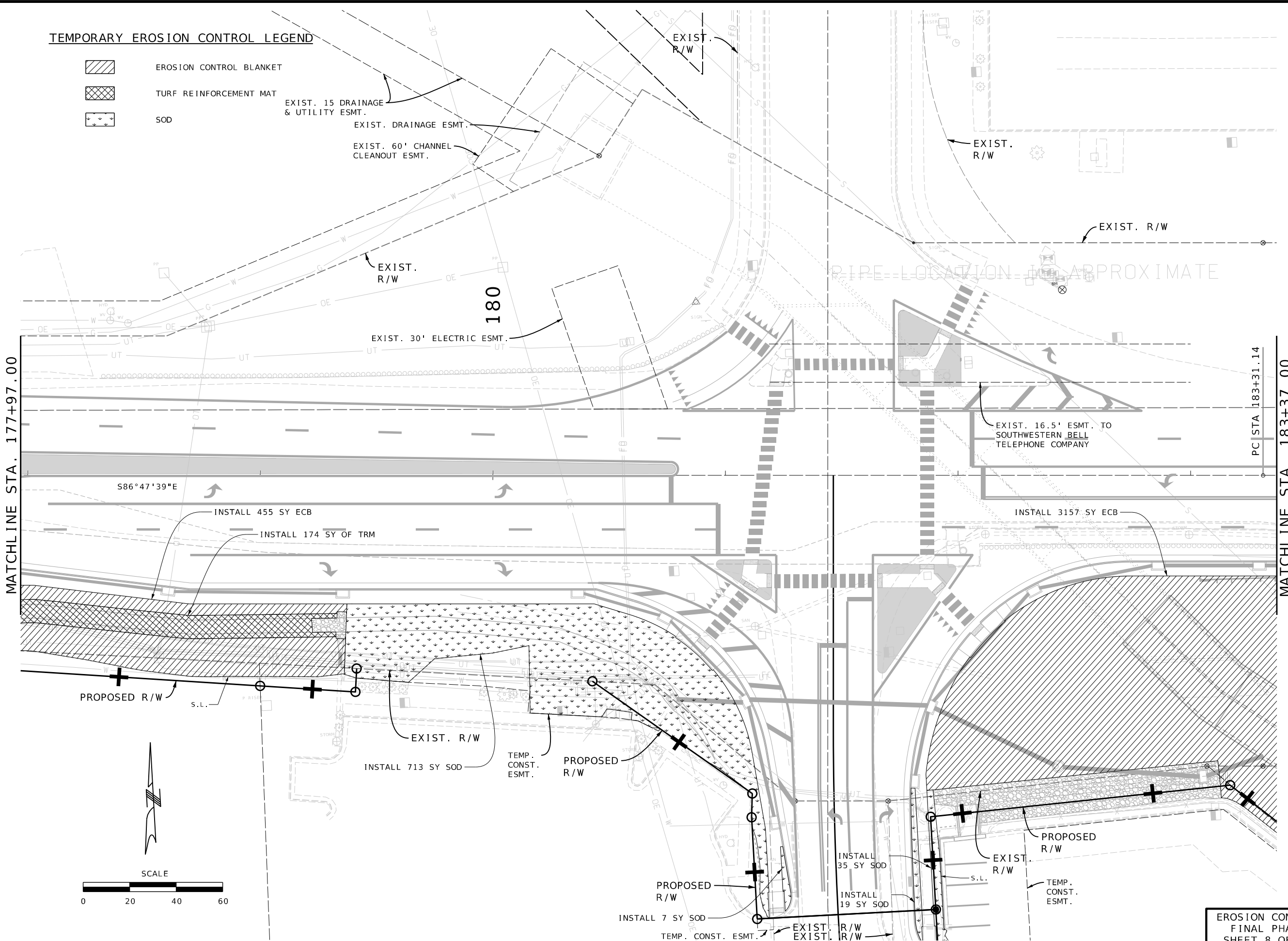
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TEMPORARY EROSION CONTROL LEGEND



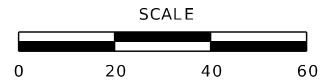
EROSION CONTROL BLANKET  
TURF REINFORCEMENT MAT  
SOD

EXIST. 15 DRAINAGE & UTILITY ESMT.  
EXIST. DRAINAGE ESMT.  
EXIST. 60' CHANNEL CLEANOUT ESMT.



MATCHLINE STA. 177+97.00

MATCHLINE STA. 183+37.00



EROSION CONTROL  
FINAL PHASE  
SHEET 8 OF 10






DATE PREPARED: 3/19/2026  
ROUTE: CC STATE: MO  
DISTRICT: SW SHEET NO.: 38  
COUNTY: CHRISTIAN  
JOB NO.: J8S0736E  
CONTRACT ID.:  
PROJECT NO.:  
BRIDGE NO.: A38612

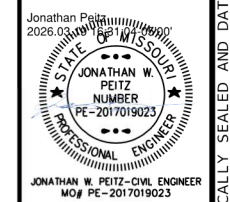
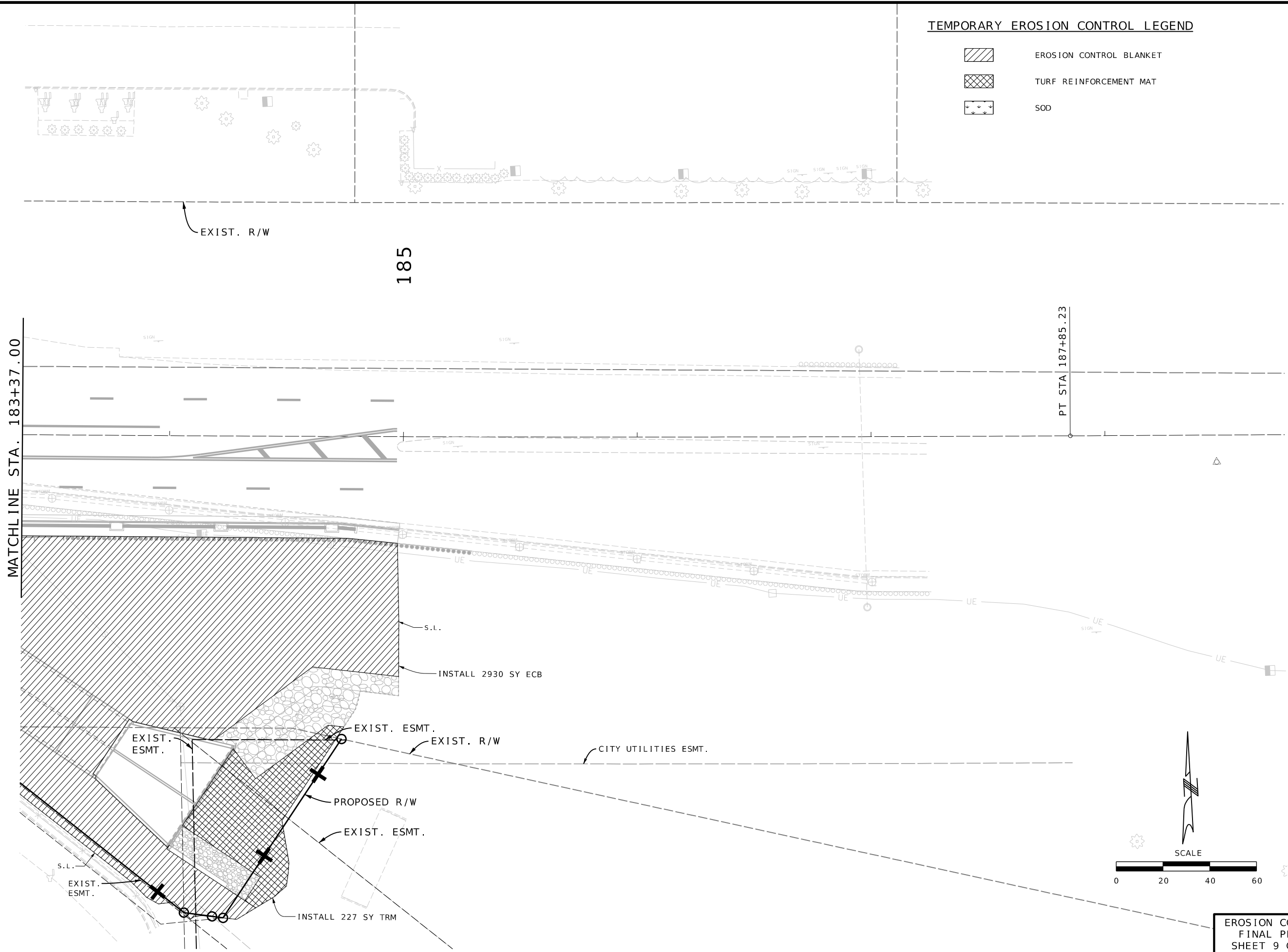
NO.	DATE	DESCRIPTION

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

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

TEMPORARY EROSION CONTROL LEGEND


-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  SOD




DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 39
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



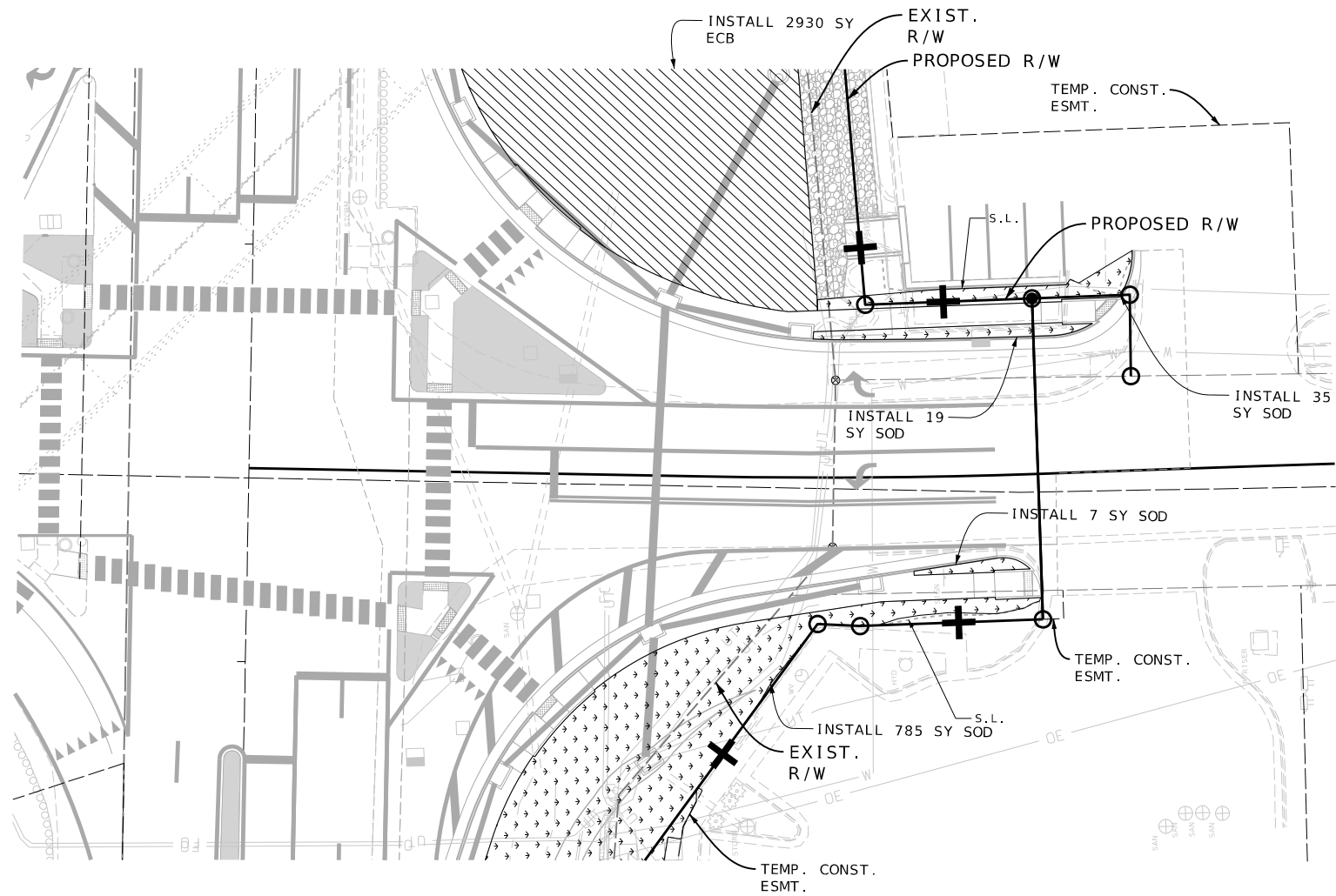
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)






550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

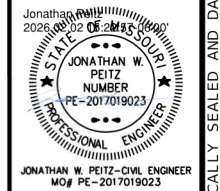
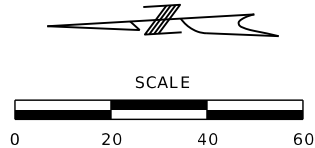
EROSION CONTROL  
FINAL PHASE  
SHEET 9 OF 10

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



**TEMPORARY EROSION CONTROL LEGEND**

-  EROSION CONTROL BLANKET
-  TURF REINFORCEMENT MAT
-  SOD




DATE PREPARED  
2/2/2026


ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 40
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

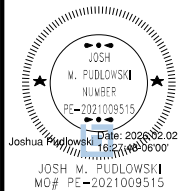
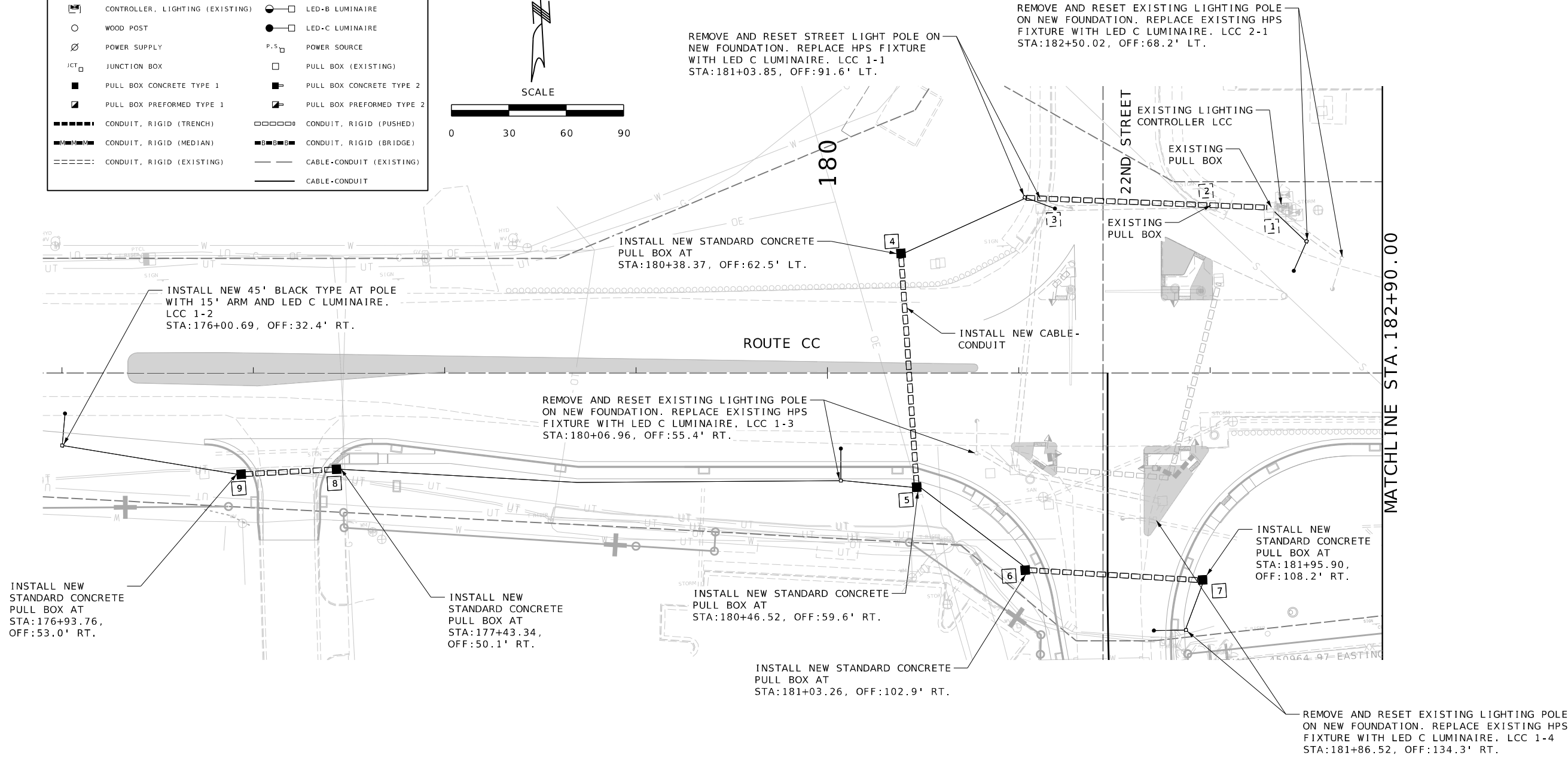
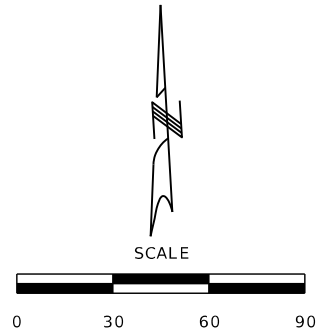


550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

EROSION CONTROL  
FINAL PHASE  
SHEET 10 OF 10

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

LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 41
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

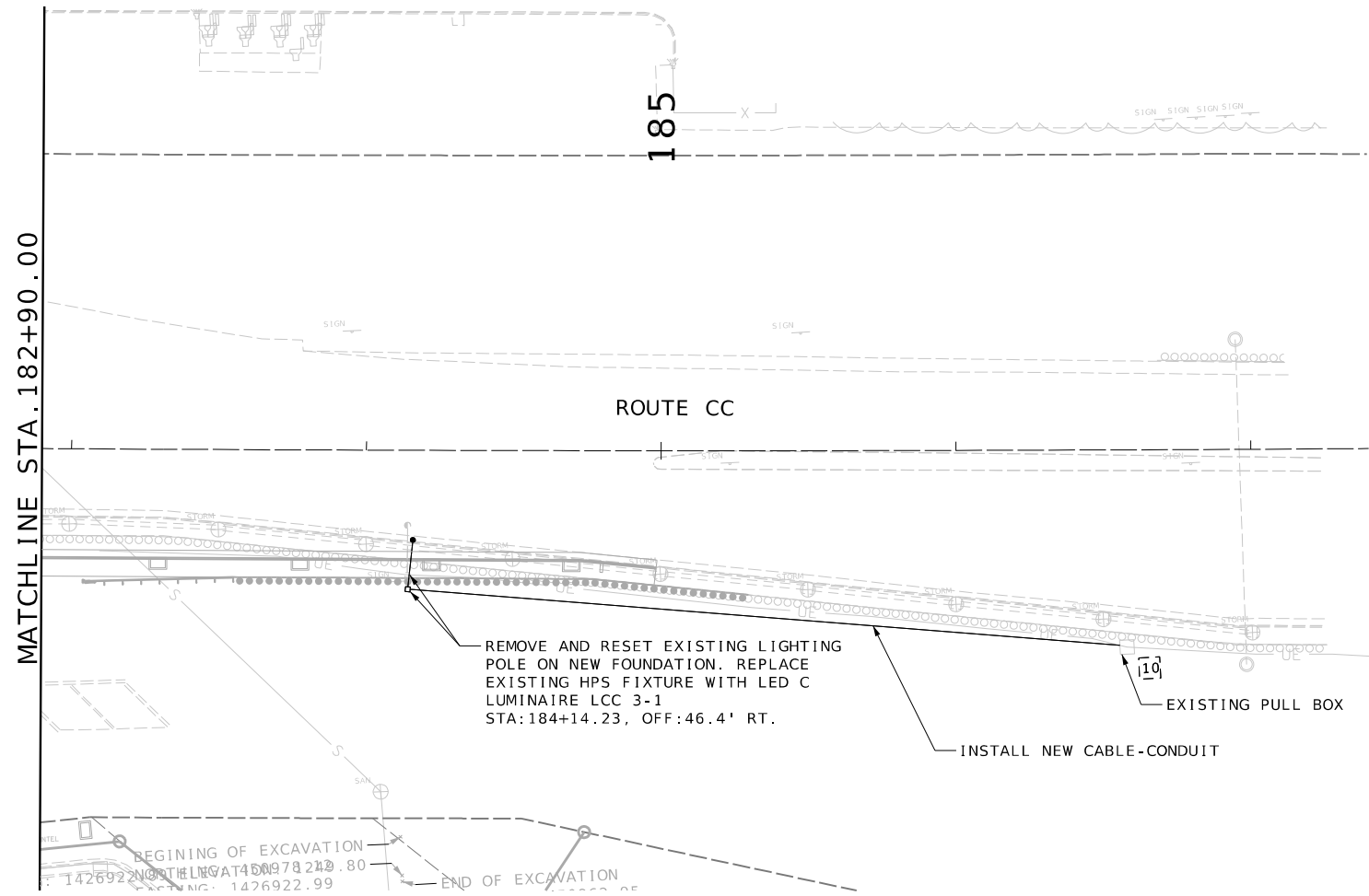
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

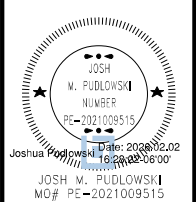
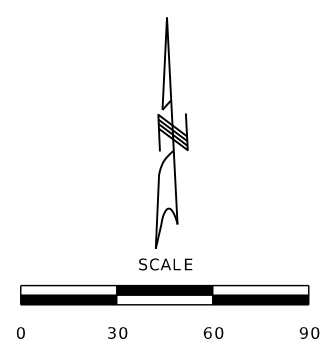
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

LIGHTING PLAN  
SHEET 1 OF 2

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



LIGHTING LEGEND			
	CONTROLLER, LIGHTING		LED-A LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		LED-B LUMINAIRE
	WOOD POST		LED-C LUMINAIRE
	POWER SUPPLY		P.S. POWER SOURCE
	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 42
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

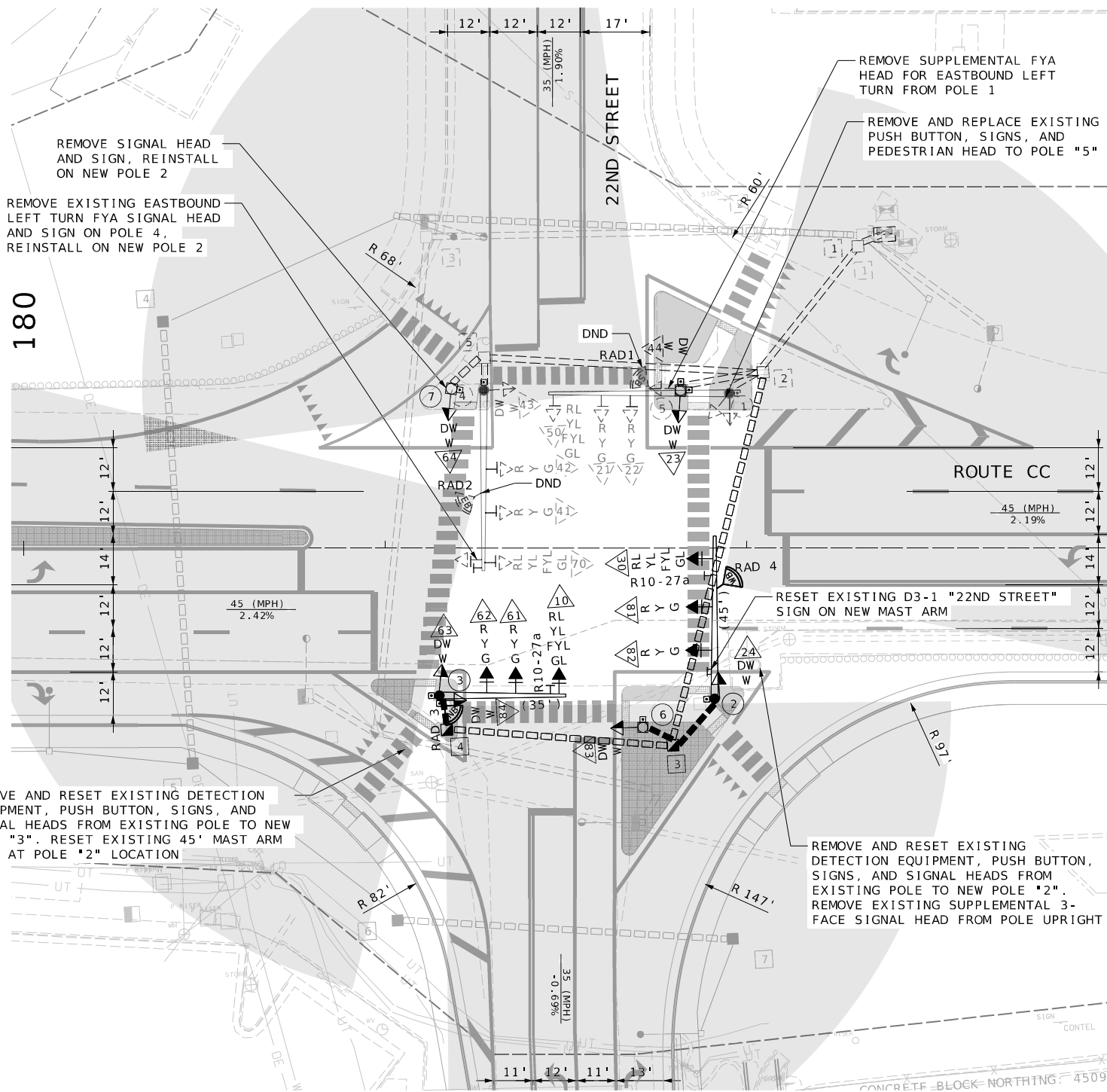
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

LIGHTING PLAN  
SHEET 2 OF 2

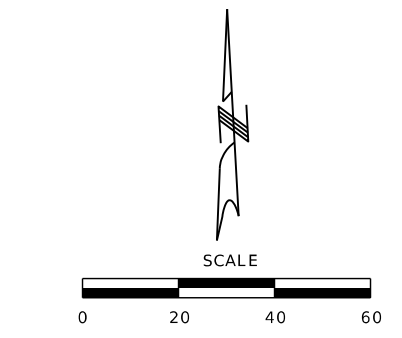
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



180

REMOVE AND RESET EXISTING DETECTION EQUIPMENT, PUSH BUTTON, SIGNS, AND SIGNAL HEADS FROM EXISTING POLE TO NEW POLE "3". RESET EXISTING 45' MAST ARM POLE AT POLE "2" LOCATION

REMOVE AND RESET EXISTING DETECTION EQUIPMENT, PUSH BUTTON, SIGNS, AND SIGNAL HEADS FROM EXISTING POLE TO NEW POLE "2". REMOVE EXISTING SUPPLEMENTAL 3-FACE SIGNAL HEAD FROM POLE UPRIGHT



22ND STREET & ROUTE CC

TRAFFIC SIGNALS LEGEND

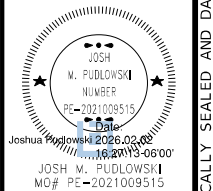
	CONTROLLER		CCTV CAMERA		6 X 6 LOOP DETECTOR
	CONTROLLER (EXISTING)		RADAR DETECTOR		6 X 15 LOOP DETECTOR
	JUNCTION BOX		PUSH BUTTON DETECTOR		30 X 6 LOOP DETECTOR
	POWER SUPPLY		PREFORMED PULL BOX TYPE 1		CONDUIT MEDIAN
	WOOD POST		PREFORMED PULL BOX TYPE 2		CONDUIT PUSHED
	SIGNAL HEAD (OPT LIM CONV)		CONCRETE PULL BOX TYPE 1		CONDUIT BRIDGE
	SIGNAL HEAD (OPT LIM)		CONCRETE PULL BOX TYPE 2		CONDUIT EXISTING
	SIGNAL HEAD (PEDESTRIAN)		ITS PULL BOX TYPE 2		CONDUIT TRENCHED
	SIGNAL HEAD (STANDARD)		ITS PULL BOX TYPE 5		SPAN WIRE
			RADAR DETECTION ZONE		MAST ARM - TYPE A BASE
					MAST ARM - TYPE C BASE
					MAST ARM - TYPE F BASE

R	RED BALL
Y	YELLOW BALL
G	GREEN BALL
RL	RED LEFT ARROW
YL	YELLOW LEFT ARROW
FYL	FLASHING YELLOW LEFT ARROW
GL	GREEN LEFT ARROW
S	STRAIGHT GREEN ARROW
RR	RIGHT RED ARROW
YR	YELLOW RIGHT ARROW
GR	GREEN RIGHT ARROW

ALL 12" LENS WITH TUNNEL VISOR

- NOTES:
- 1.) ALL TRAFFIC SIGNAL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 902 (TRAFFIC SIGNALS), UNLESS OTHERWISE NOTED.
  - 2.) THE CONTRACTOR SHALL STAKE LOCATIONS WHERE POLES, BOXES, AND THE CONTROLLER ARE TO BE INSTALLED. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF EQUIPMENT. SERVICE BOXES AND CONDUIT RUNS ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO CLEAR OBSTRUCTIONS AND FACILITATE WIRING, AS APPROVED BY THE ENGINEER.
  - 3.) CONDUITS UNDER ANY NEW PAVEMENT SHALL EITHER BE TRENCHED PRIOR TO PAVEMENT CONSTRUCTION OR BORED FOLLOWING PAVEMENT CONSTRUCTION. CONDUITS UNDER ANY EXISTING PAVEMENT, INCLUDING SIDEWALKS AND DRIVEWAYS, SHALL BE BORED WITHOUT DISTURBANCE TO THE EXISTING PAVEMENT.
  - 4.) CONDUIT, PULL BOXES, AND POLE BASES SHALL MAINTAIN AT LEAST 4' SETBACK FROM NEW GUARDRAIL OR CONCRETE BARRIER.
  - 5.) CONTROLLER CABINET DOOR MUST OPEN AWAY FROM INTERSECTION.
  - 6.) ALL EXISTING PUSH BUTTONS SHALL BE REMOVED AND REPLACED WITH APS PUSH BUTTONS. ALL NEW PUSH BUTTONS SUPPLIED SHALL BE APS.
  - 7.) THE PROPOSED EQUIPMENT IS FINISHED WITH A BLACK POWER-COATED SURFACE.
  - 8.) CONTRACTOR TO FILL HOLES LEFT BEHIND AFTER REMOVING AND RELOCATING SIGNAL HARDWARE, NO DIRECT PAY.

SIGNAL PLAN SHEET 1 OF 6



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 43
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

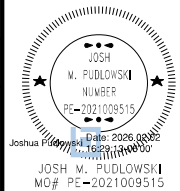
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CONDUIT (WITH #14 TRACER WIRE)

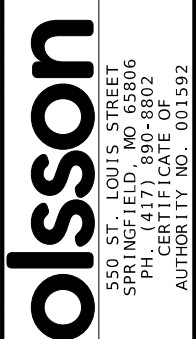
CABLE

FROM	TO	CENTER TO CENTER DISTANCE	TRENCH				PUSHED			MEDIAN			ON STRUCTURE		REMARKS	FROM	TO	CENTER TO CENTER DISTANCE	POWER	CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTION				REMARKS						
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"						1-c#6 (GND)	2c #16	5c #16	7c #16		3c #16	3 PAIR #16	CONTROL	POLE & BRACKET	1c #14 IN DUCT	2c #14 LEAD-IN CABLE		VIDEO CABLE	RADAR CABLE				
CONT	BOX 1	10														CONT	23	77			106	107															
BOX 1	BOX 2	44														CONT	30	177	195				263														
BOX 2	POLE 1	11														CONT	81	177					12														
BOX 2	BOX 5	77														CONT	82	177					238														
BOX 2	POLE 5	23														CONT	24	177			212	213															
BOX 5	POLE 4	9														CONT	83	170			268	269															
BOX 2	BOX 3	106										104				CONT	10	233					319														
BOX 3	POLE 2	17			20											CONT	61	233	257				8														
BOX 3	POLE 6	10		11												CONT	62	233					300														
BOX 3	BOX 4	63										61				CONT	63	233			274	275															
BOX 4	POLE 3	10		13												CONT	84	233			274	275															
BOX 5	POLE 7	18		19												CONT	RAD3	233																	308		
																CONT	64	149			184	185														292	
																CONT	RAD4	177																			
SUBTOTALS				63					165							SUBTOTALS			452	1318	1324	1140															600
TOTALS				63					165							TOTALS			460	1320	1330	1140															600



DATE PREPARED: 2/2/2026  
 ROUTE: CC STATE: MO  
 DISTRICT: SW SHEET NO.: 45  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.:  
 PROJECT NO.:  
 BRIDGE NO.: A38612

DESCRIPTION	DATE



22ND STREET & ROUTE CC INTERSECTION

D-37B

SIGNAL PLAN SHEET 3 OF 6

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

POWER SUPPLY													
LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE		
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	CONTROLLER		POWER SUPPLY DISCONNECT		LIGHTING CONTROL * (ON POWER SUPPLY)		CONTRACT FURNISH	UTILITY COMPANY	
					AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER	SIGNALS LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER			
EXISTING			Type 2		15 Amps	40 Amps	Amps	Amps			CI.	Ft.	OZARK ELECTRIC
			Type		15 Amps	40 Amps	Amps	Amps			CI.	Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT																							
LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *				NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *					
APPROACH	STATION	OFFSET	NEMA	170	ECONOLITE COBALT	170	TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER	TIME * CLOCK	E	EV	DOUBLE	332	336S	BITRAN	WAPITI	
							I	II	MASTER	LOCAL		NEMA	170										
EXISTING																							

DETECTOR SCHEDULE						
DETECTOR NUMBER	APPROACH	PUSH BUTTON	TYPE			RADAR (SEE NOTE 1)
			STANDARD	DELAY/EXTEND *	CALL UNIT *	
RAD 3	22ND STREET					-
RAD 4	ROUTE CC					-
23	22ND STREET	1				
24	22ND STREET	1				
63	22ND STREET	1				
64	22ND STREET	1				
83	ROUTE CC	1				
84	ROUTE CC	1				
43	ROUTE CC	1				
44	ROUTE CC	1				
TOTAL		8				

\* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

NOTE:

1.) ALL MATERIALS AND WORK ASSOCIATED WITH REMOVAL OF EXISTING SIGNAL COMPONENTS AND RESETTING TO NEW LOCATIONS SHALL BE PAID FOR UNDER THE LUMP SUM BID ITEM "REMOVE AND RESET EXISTING SIGNAL EQUIPMENT", 902.99.01.

MISCELLANEOUS BID ITEMS		
BID ITEM	UNIT	QUANTITY
REMOVE & RESET EXISTING SIGNAL EQUIPMENT	LS	1

SIGNAL SIGNS					
QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA	SIGNAL SIGN MOUNTING HARDWARE
		INCHES	SQ. FT.	SQ. FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	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		
	R3-4	36 X 36	9.0		
	R10-5	24 X 30	5.0		
	R10-12	24 X 30	5.0		
1	D3-1 (22ND STREET)	84 X 18	10.5	*	*
5	R10-3E(L)	9 X 15	0.9	4.5	5
3	R10-3E(R)	9 X 15	0.9	2.7	3
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
2	R10-27A	30 X 36	7.5	*	*
	R10-15R	30 X 36	7.5		
SUBTOTAL				7.2	8
TOTAL				7.2	8

2070 INPUT FILE ASSIGNMENTS															
CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
" I "	U	10	21			30	41								
	L		22				42								
" J "	U	50	61			70	81								
	L		62				82								

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

2070 OUTPUT FILE ASSIGNMENTS									
FR	10	21, 22	10 24, 25 L	30	41, 42	30 44, 45 L	MONITOR		
FR1	RL	R	DW	RL	R	DW			
FR2	YL	Y	24, 25 W	YL	Y	44, 45 W			
FR3	50	61, 62		70	81, 82	84, 85 L			
FR4	RL	R		YL	Y	84, 85 W			
	FYL	G		FYL	G				

22ND STREET & ROUTE CC INTERSECTION

SIGNAL PLAN SHEET 4 OF 6

D-37C

**olsson**

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DESCRIPTION

DATE

BRIDGE NO.  
A38612

PROJECT NO.

CONTRACT ID.

J8S0736E

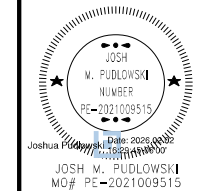
CHRISTIAN

COUNTY

DISTRICT SW SHEET NO. 46

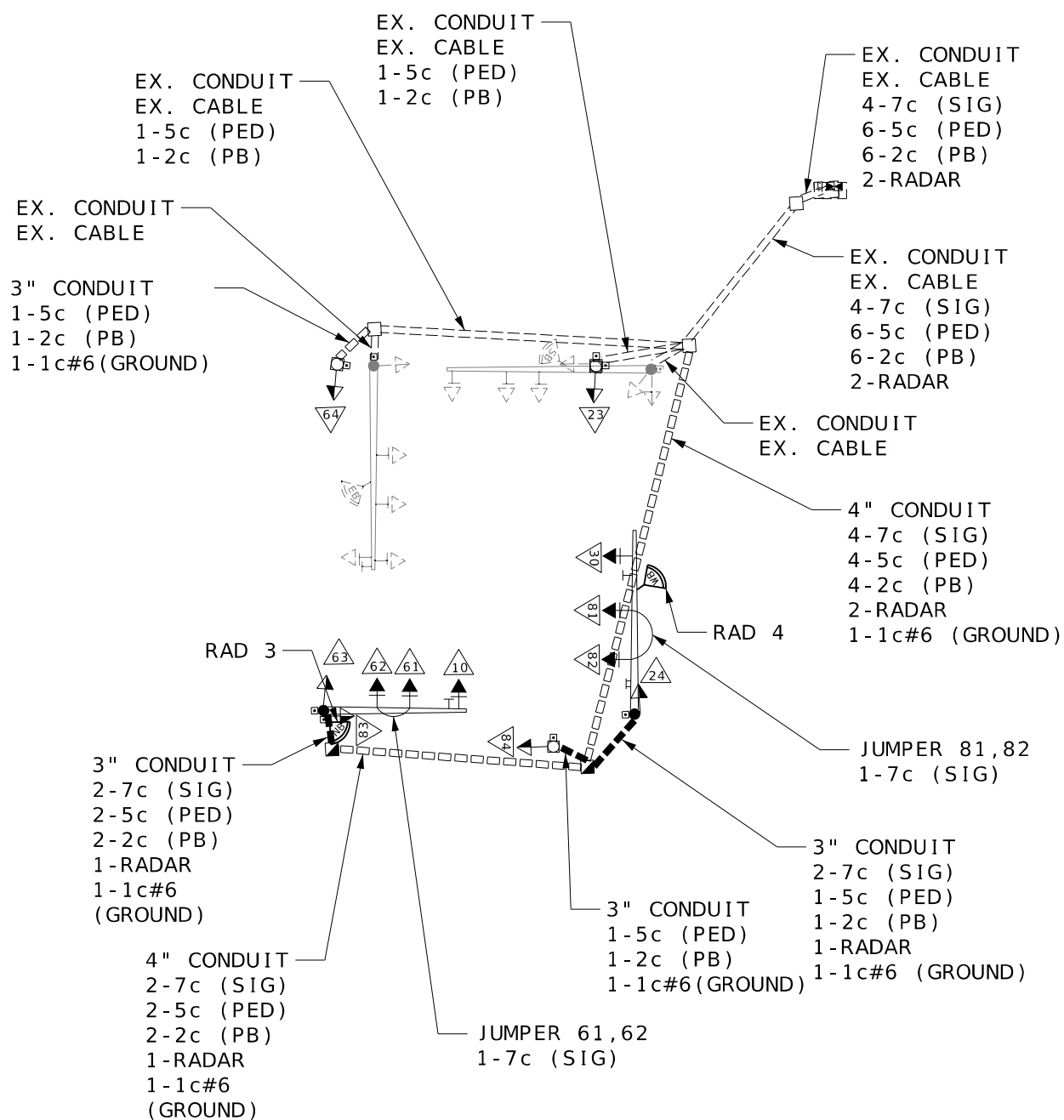
ROUTE CC STATE MO

DATE PREPARED 2/2/2026

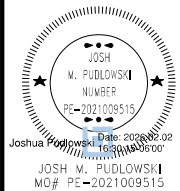
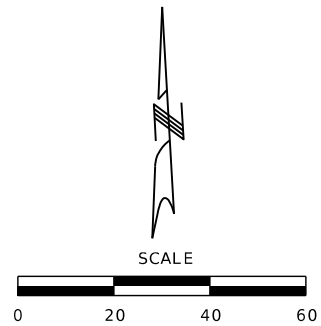


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WIRING DIAGRAM



LEGEND	
— 3" —	CONDUIT CONTAINING CABLE WITH SIZE
—	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
⊗	POST WITH NUMBER
⊗	POST WITH MAST ARM
⊗	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
— X	SIGNAL HEAD WITH NUMBER
⊗	SIGNAL CONTROLLER
⊗	POWER SUPPLY
⊗	LIGHTING CONTROLLER



DATE PREPARED  
2/2/2026  
ROUTE CC STATE MO  
DISTRICT SW SHEET NO. 47  
COUNTY CHRISTIAN  
JOB NO. J8S0736E  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO. A38612

DATE	DESCRIPTION

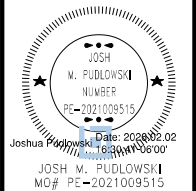
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
MoDOT  
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

22ND STREET & ROUTE CC  
INTERSECTION

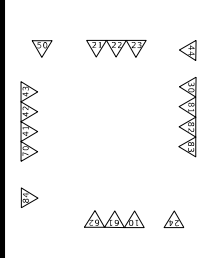
D-37D

SIGNAL PLAN  
SHEET 5 OF 6



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 48
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø 2	PED Ø 4	PED Ø 6	PED Ø 8	OVERLAP A	OVERLAP B	OVERLAP C	OVERLAP D																		
FACE NUMBERS 10		21 22		30		41 42		50		61 62		70		81 81		23 24		43 44		63 64		83 84											
SIGNAL INDICATIONS R RL Y YL FYA G GL		R R Y Y G G		RL YL GL		R R Y Y G G		RL YL GL		R R Y Y G G		RL YL GL		R R Y Y G G		DW FDW W		DW FDW W		DW FDW W		DW FDW W		FY		FY		FY		FY		R Y FYA G	
DETECTOR ASSIGNMENTS																DETECTOR ASSIGNMENTS																	
DETECTOR ASSIGNMENTS (PEDS. ONLY)																DETECTOR ASSIGNMENTS (PEDS. ONLY)																	
OVERLAP PARENT PHASES																OVERLAP PARENT PHASES																	
																6 8 2 4																	

FACE NUMBERS

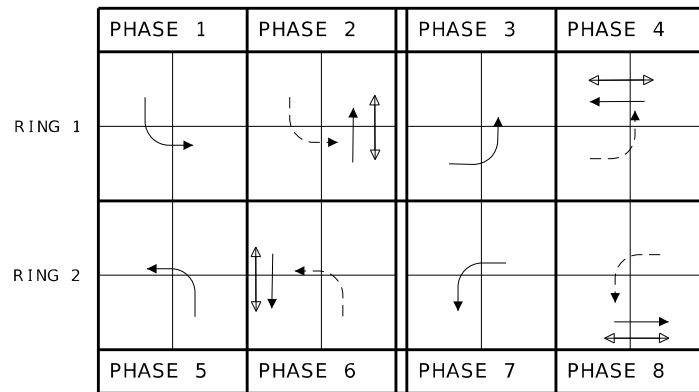
SIGNAL INDICATIONS

DETECTOR ASSIGNMENTS

DESCRIPTION

DATE

DESCRIPTION	
DATE	



BARRIER

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
- 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 MOVEMENTS	FR
	FY
CONTROLLER TYPE	2070

**TRAFFIC SIGNAL CONTROL OPERATION**

INTERSECTION OF
22ND STREET & ROUTE CC

D-38A

SIGNAL PLAN  
SHEET 6 OF 6



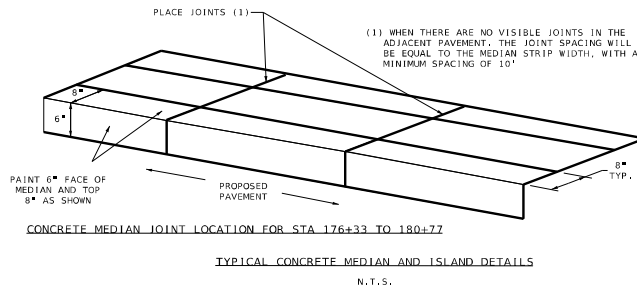
**Olsson**

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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

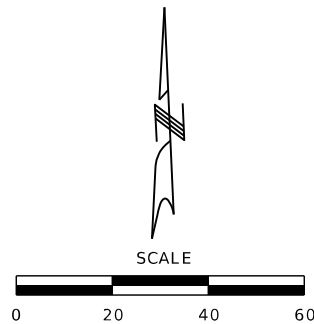
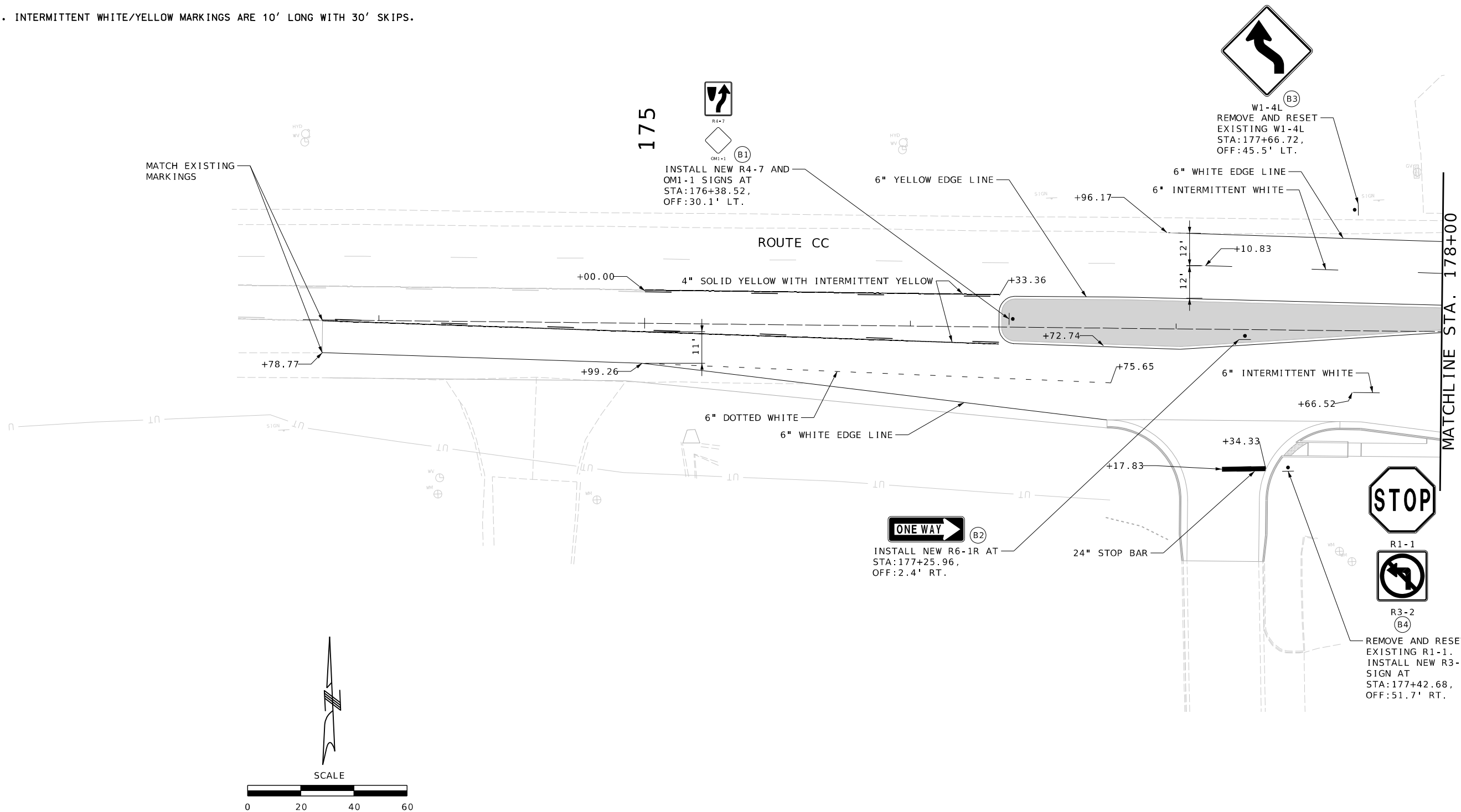
**NOTES:**

1. SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING DETAILS.
2. THE CONTRACTOR SHALL REPLACE ALL DISTURBED PAVEMENT MARKINGS AS DIRECTED BY ENGINEER.
3. UNLESS OTHERWISE NOTED, CROSSWALK MARKINGS SHALL BE SPACED EQUALLY WITH ONE BLOCK CENTERED ON EACH LANE, ONE BLOCK ON EACH LANE/CENTER LINE AND ONE HALF BLOCK ON EACH EDGE LINE.
4. SEE TYPICAL SECTION SHEETS FOR ALL LANE WIDTHS AND DIMENSIONS NOT SHOWN
5. INTERMITTENT WHITE/YELLOW MARKINGS ARE 10' LONG WITH 30' SKIPS.



**STRIPING LEGEND**

- INTERMITTENT WHITE/YELLOW
- DOTTED WHITE/YELLOW
- SOLID WHITE/YELLOW
- DOUBLE YELLOW



DATE PREPARED  
2/2/2026

ROUTE CC STATE MO  
DISTRICT SW SHEET NO. 49  
COUNTY CHRISTIAN  
JOB NO. J8S0736E  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO. A38612

DATE	DESCRIPTION

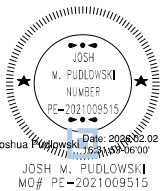
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**olsson**  
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

PAVEMENT MARKING AND SIGNING SHEET 1 OF 3

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



DATE PREPARED  
2/2/2026

ROUTE STATE  
CC MO

DISTRICT SHEET NO.  
SW 50

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

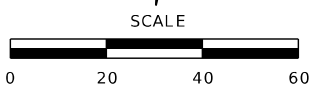
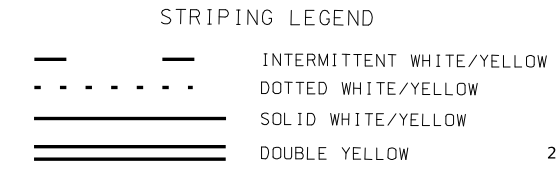
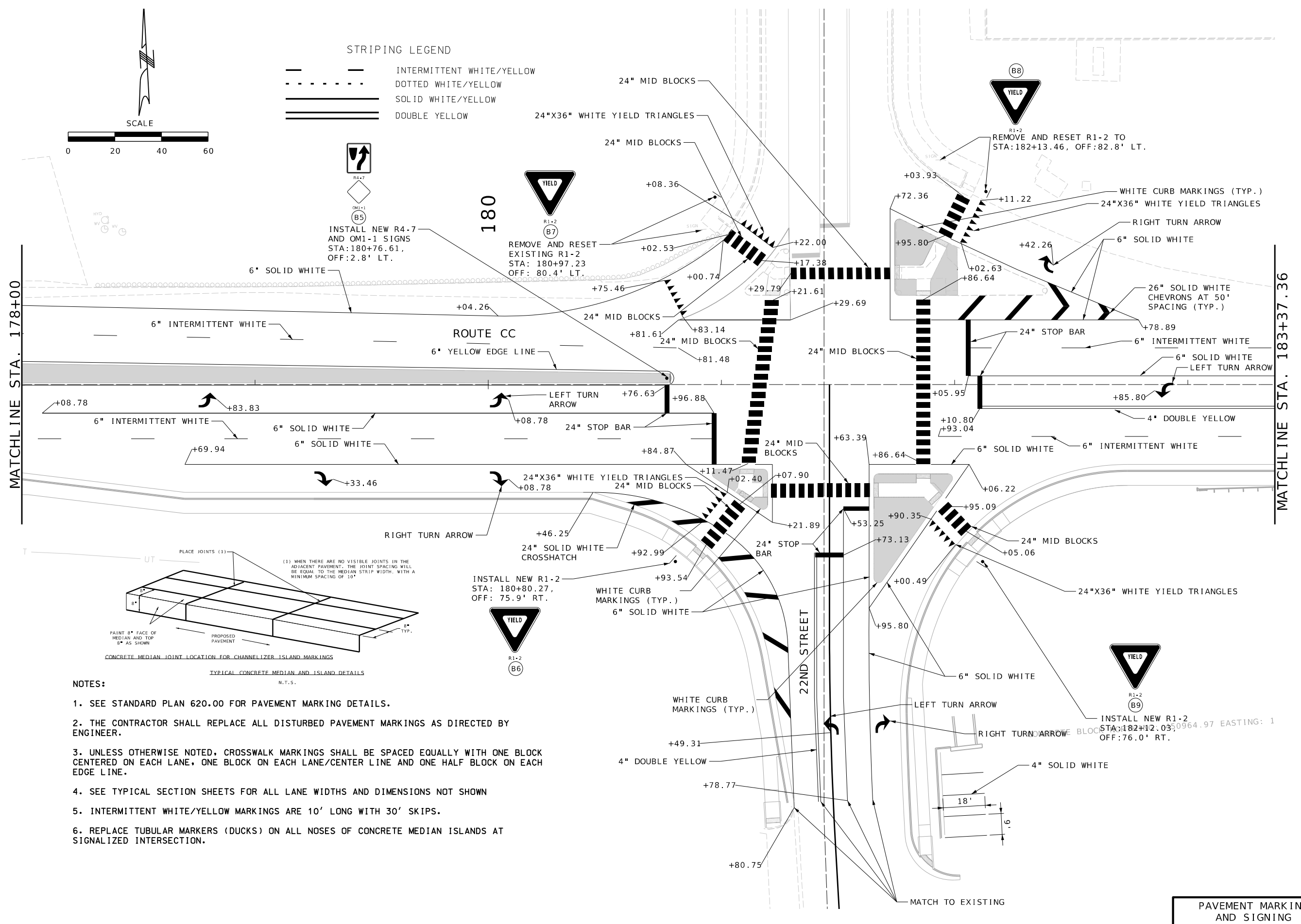
105 WEST CAPITOL JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**Olsson**

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

PAVEMENT MARKING AND SIGNING SHEET 2 OF 3

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



INSTALL NEW R4-7 AND OM1-1 SIGNS  
STA: 180+76.61,  
OFF: 2.8' LT.

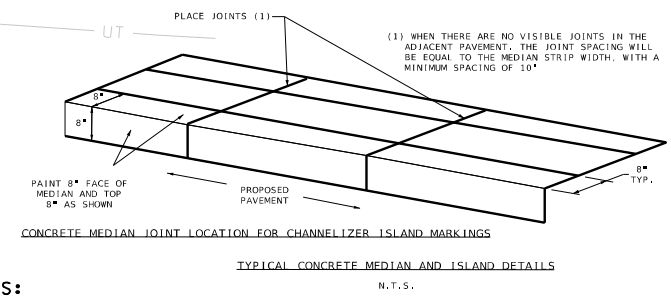
REMOVE AND RESET EXISTING R1-2  
STA: 180+97.23  
OFF: 80.4' LT.

REMOVE AND RESET R1-2 TO  
STA: 182+13.46, OFF: 82.8' LT.

INSTALL NEW R1-2  
STA: 180+80.27,  
OFF: 75.9' RT.

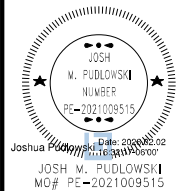
INSTALL NEW R1-2  
STA: 182+12.03,  
OFF: 76.0' RT.

- NOTES:
- SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING DETAILS.
  - THE CONTRACTOR SHALL REPLACE ALL DISTURBED PAVEMENT MARKINGS AS DIRECTED BY ENGINEER.
  - UNLESS OTHERWISE NOTED, CROSSWALK MARKINGS SHALL BE SPACED EQUALLY WITH ONE BLOCK CENTERED ON EACH LANE, ONE BLOCK ON EACH LANE/CENTER LINE AND ONE HALF BLOCK ON EACH EDGE LINE.
  - SEE TYPICAL SECTION SHEETS FOR ALL LANE WIDTHS AND DIMENSIONS NOT SHOWN
  - INTERMITTENT WHITE/YELLOW MARKINGS ARE 10' LONG WITH 30' SKIPS.
  - REPLACE TUBULAR MARKERS (DUCKS) ON ALL NOSES OF CONCRETE MEDIAN ISLANDS AT SIGNALIZED INTERSECTION.



NOTES:

1. SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING DETAILS.
2. THE CONTRACTOR SHALL REPLACE ALL DISTURBED PAVEMENT MARKINGS AS DIRECTED BY ENGINEER.
3. UNLESS OTHERWISE NOTED, CROSSWALK MARKINGS SHALL BE SPACED EQUALLY WITH ONE BLOCK CENTERED ON EACH LANE, ONE BLOCK ON EACH LANE/CENTER LINE AND ONE HALF BLOCK ON EACH EDGE LINE.
4. SEE TYPICAL SECTION SHEETS FOR ALL LANE WIDTHS AND DIMENSIONS NOT SHOWN
5. INTERMITTENT WHITE/YELLOW MARKINGS ARE 10' LONG WITH 30' SKIPS.



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 51
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

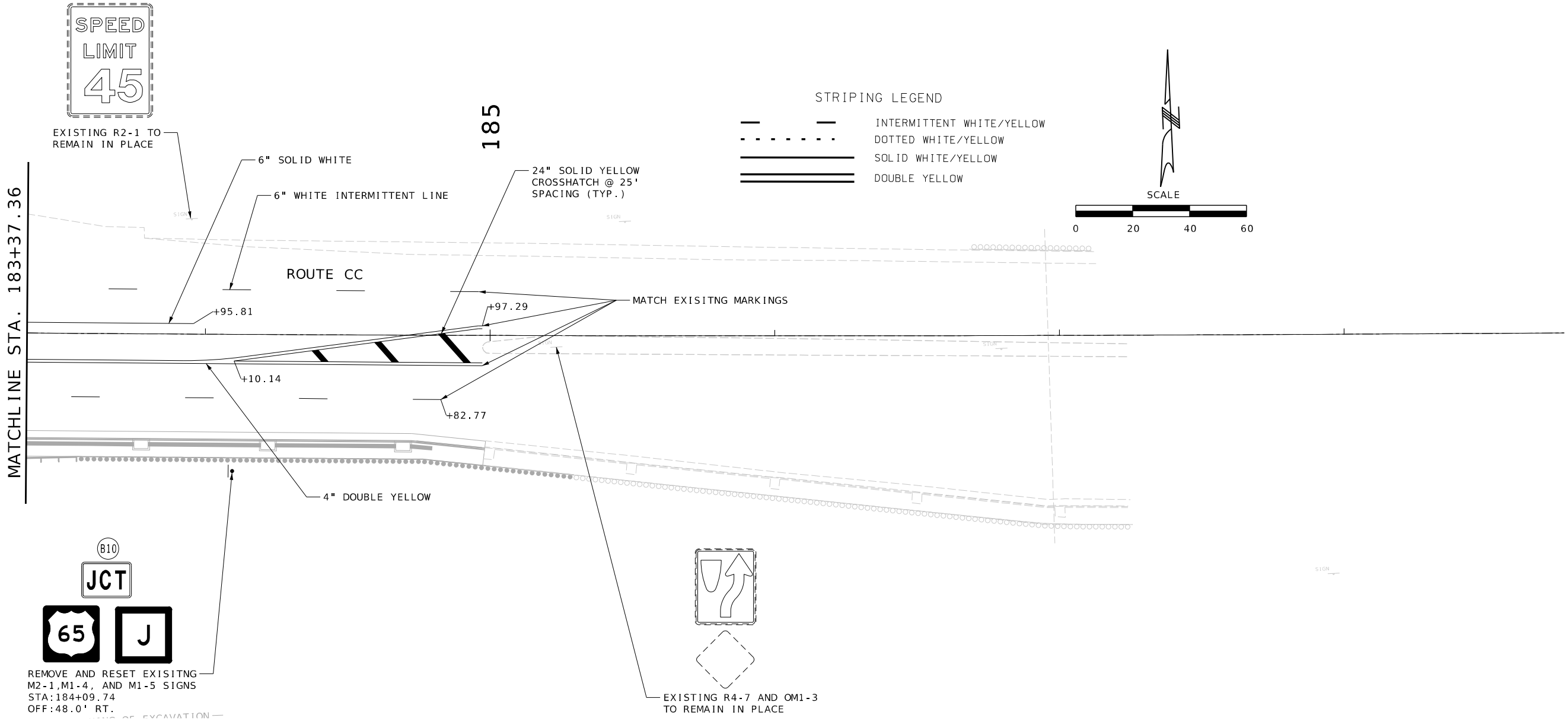
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

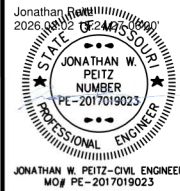
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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



PAVEMENT MARKING AND SIGNING SHEET 3 OF 3





DATE PREPARED  
2/2/2026

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
SW	53

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

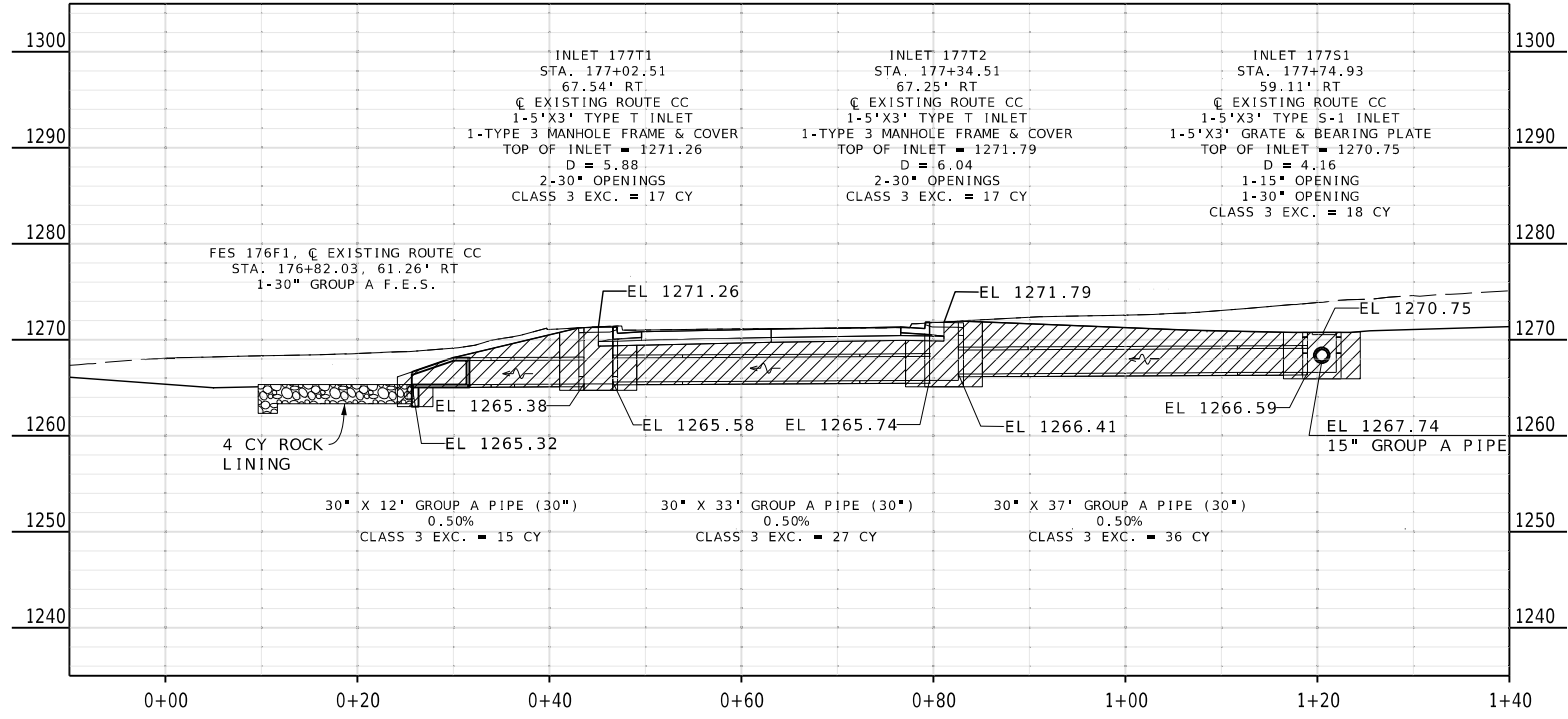
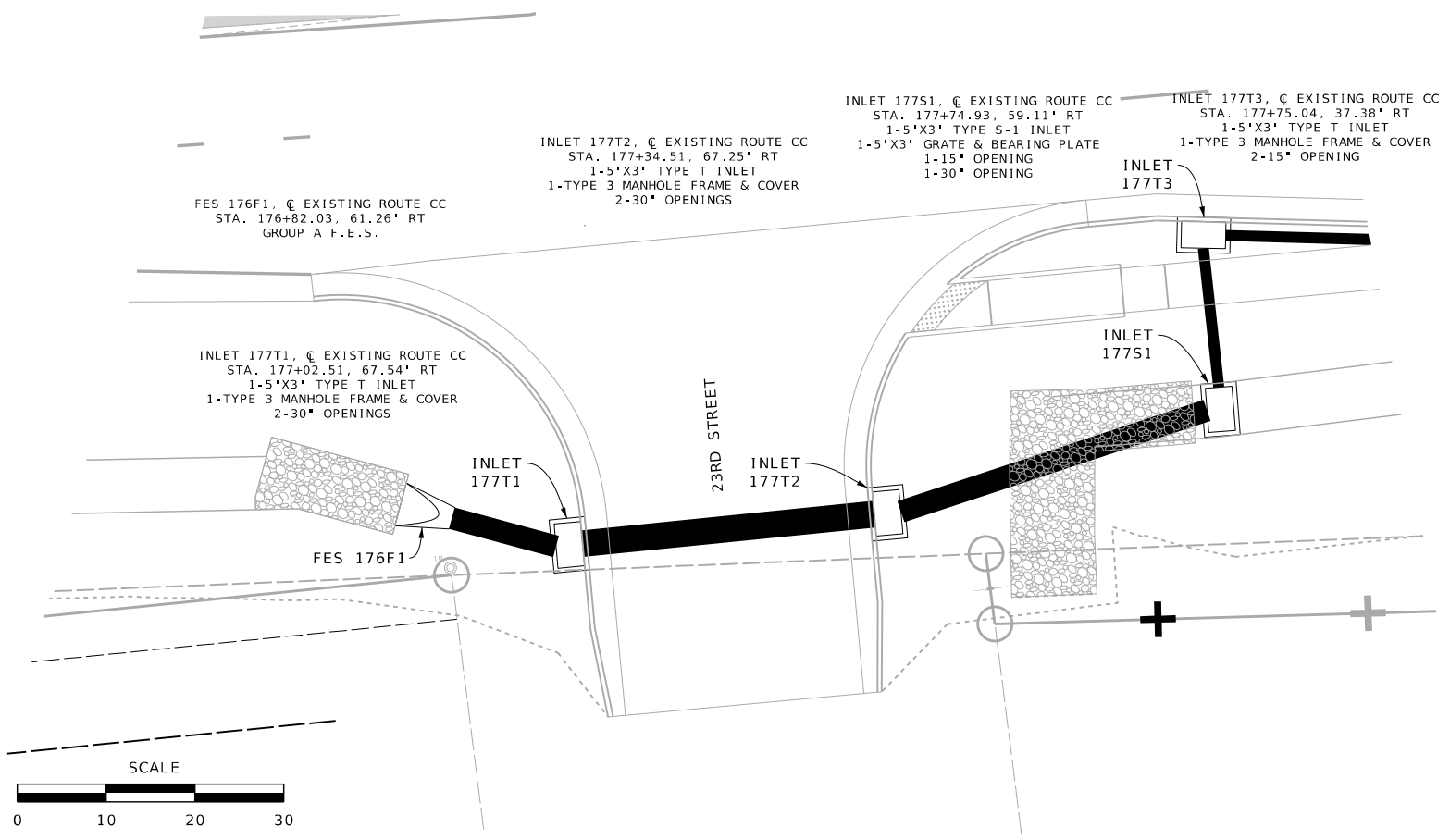
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

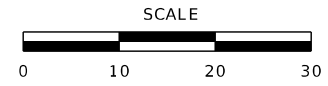
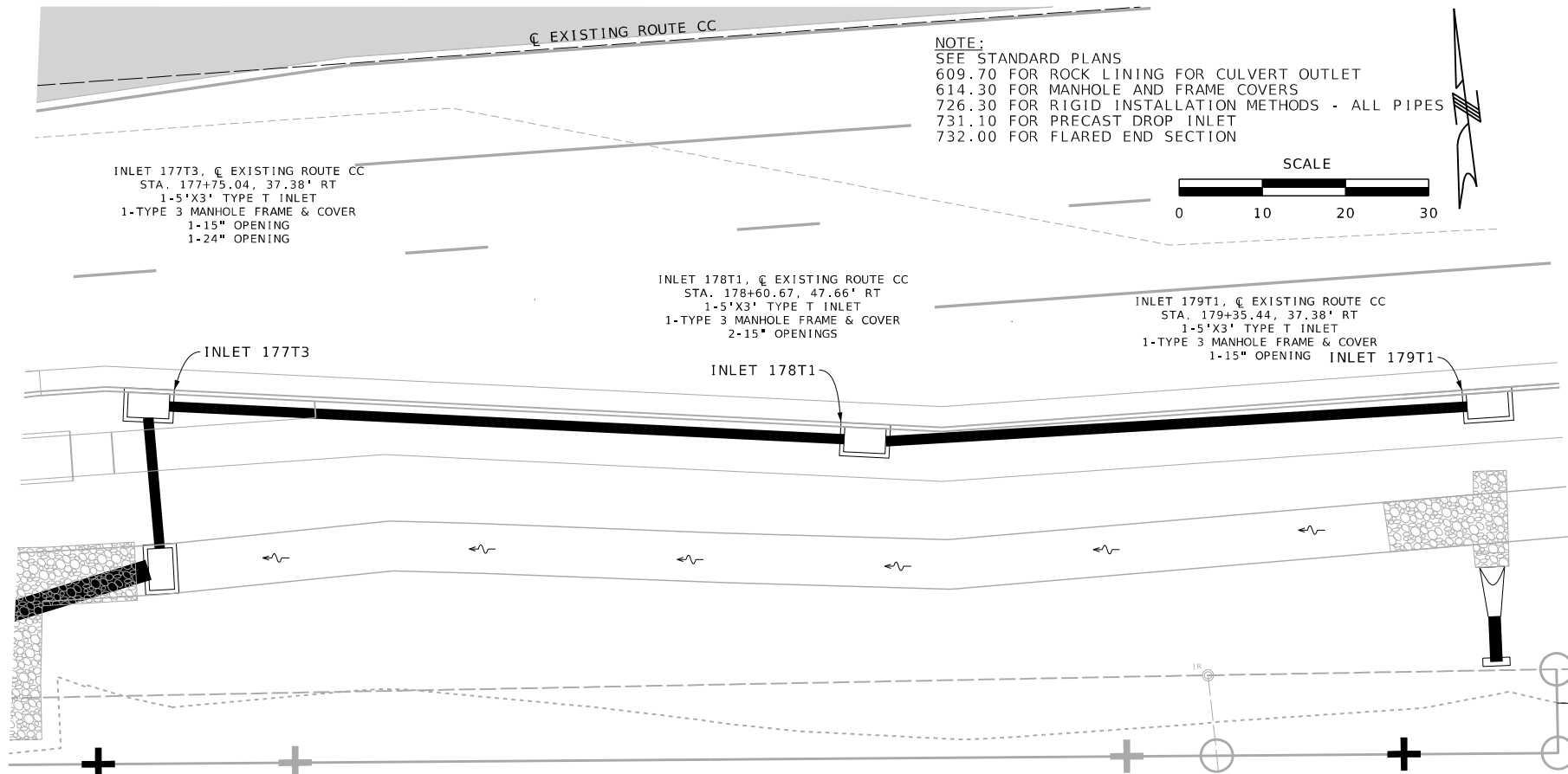
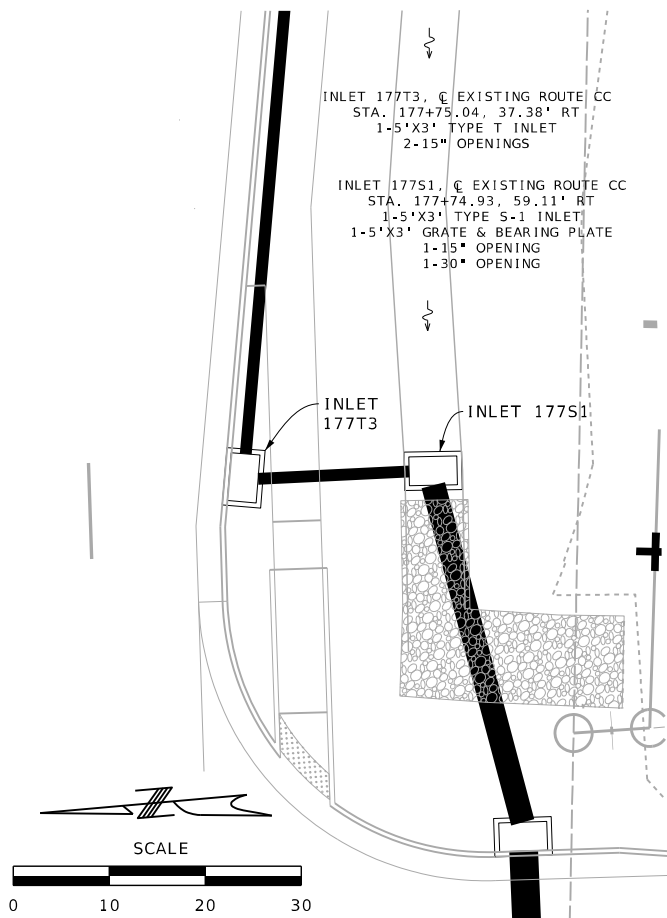
**olsson**

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SPRINGFIELD, MO 65806  
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CERTIFICATE OF AUTHORITY NO. 001592

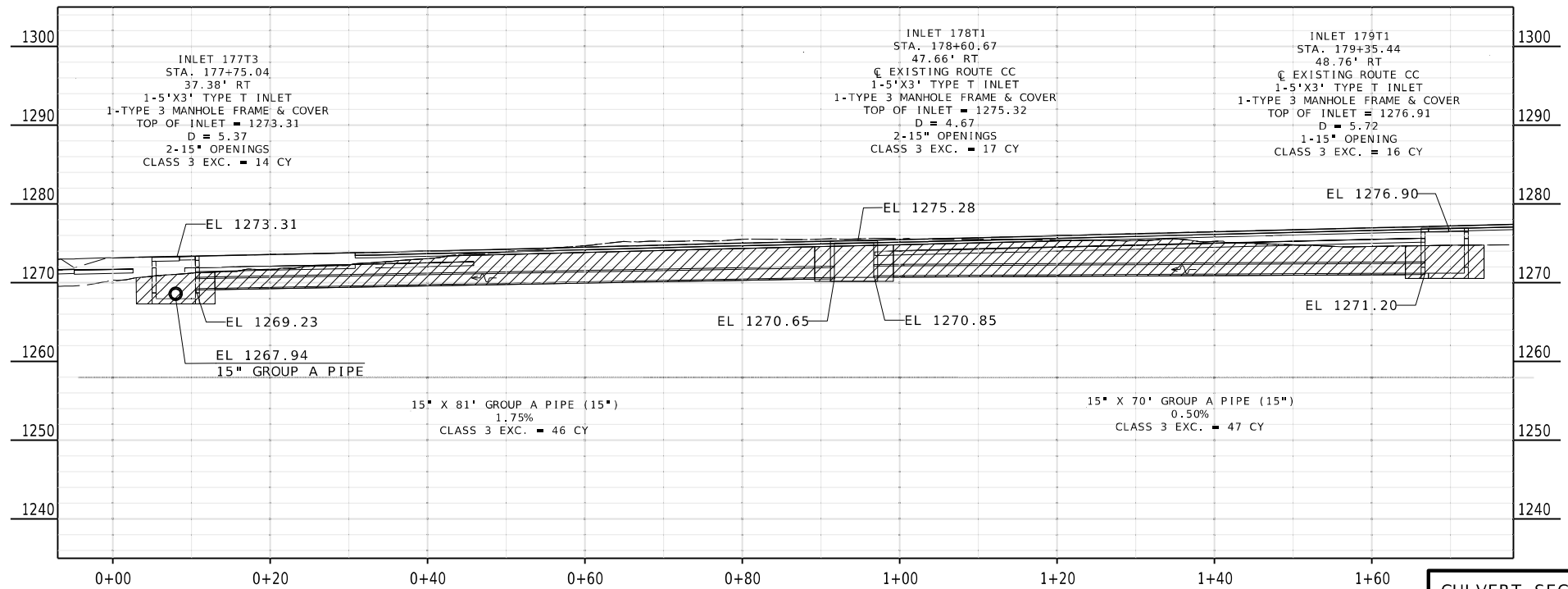
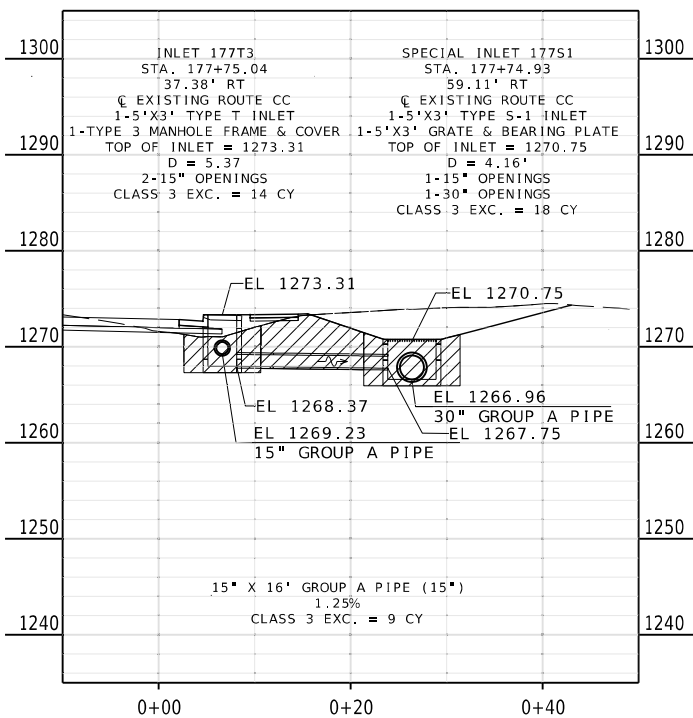
CULVERT SECTIONS  
SHEET 1 OF 8

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

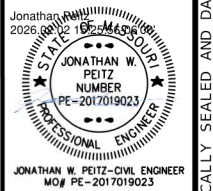




NOTE:  
 SEE STANDARD PLANS  
 609.70 FOR ROCK LINING FOR CULVERT OUTLET  
 614.30 FOR MANHOLE AND FRAME COVERS  
 726.30 FOR RIGID INSTALLATION METHODS - ALL PIPES  
 731.10 FOR PRECAST DROP INLET  
 732.00 FOR FLARED END SECTION



CULVERT SECTIONS  
 SHEET 2 OF 8



DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 54
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

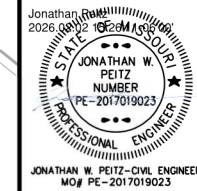
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
 COMMISSION

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

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF  
 AUTHORITY NO. 001592

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DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 55
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

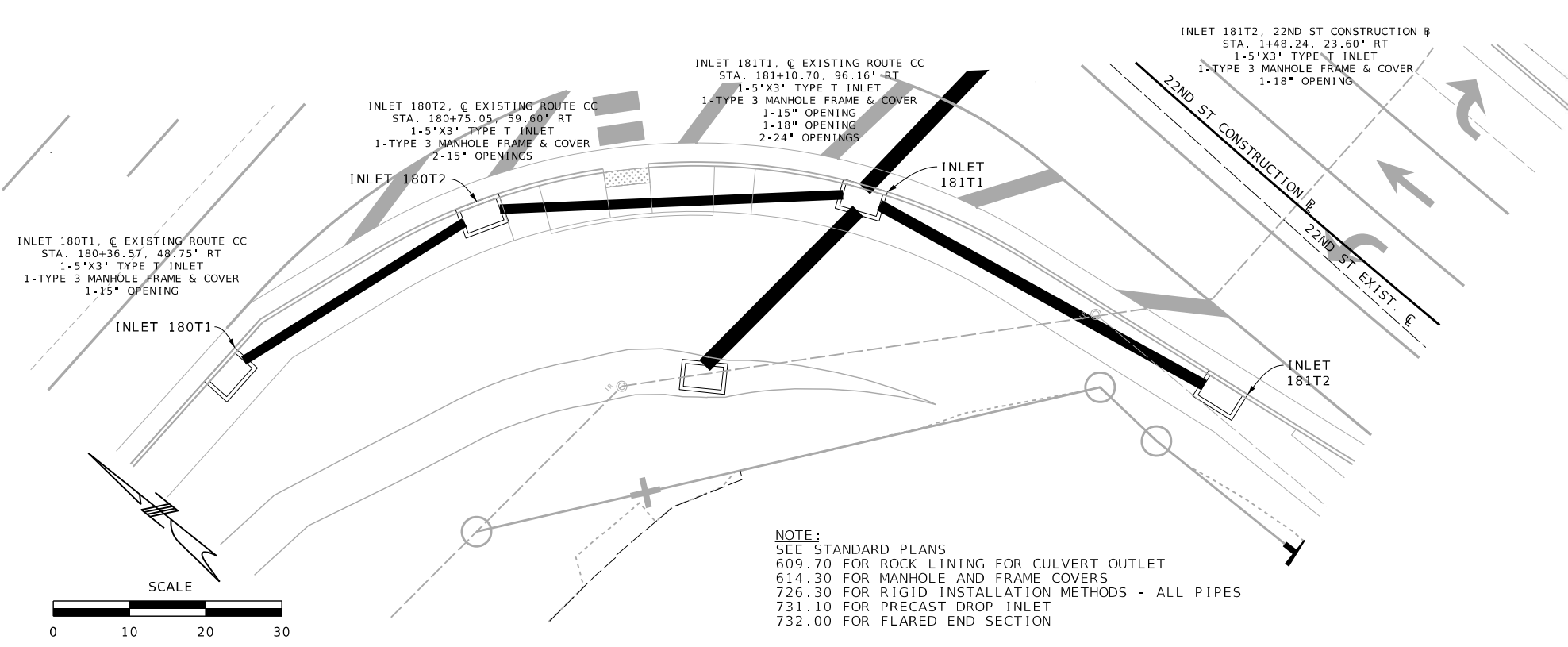
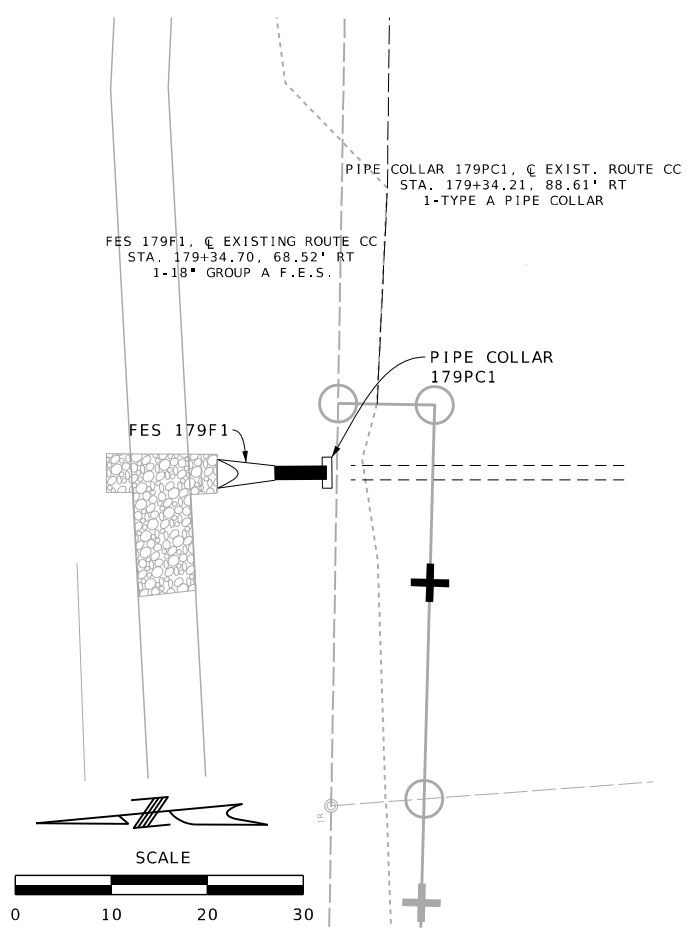
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

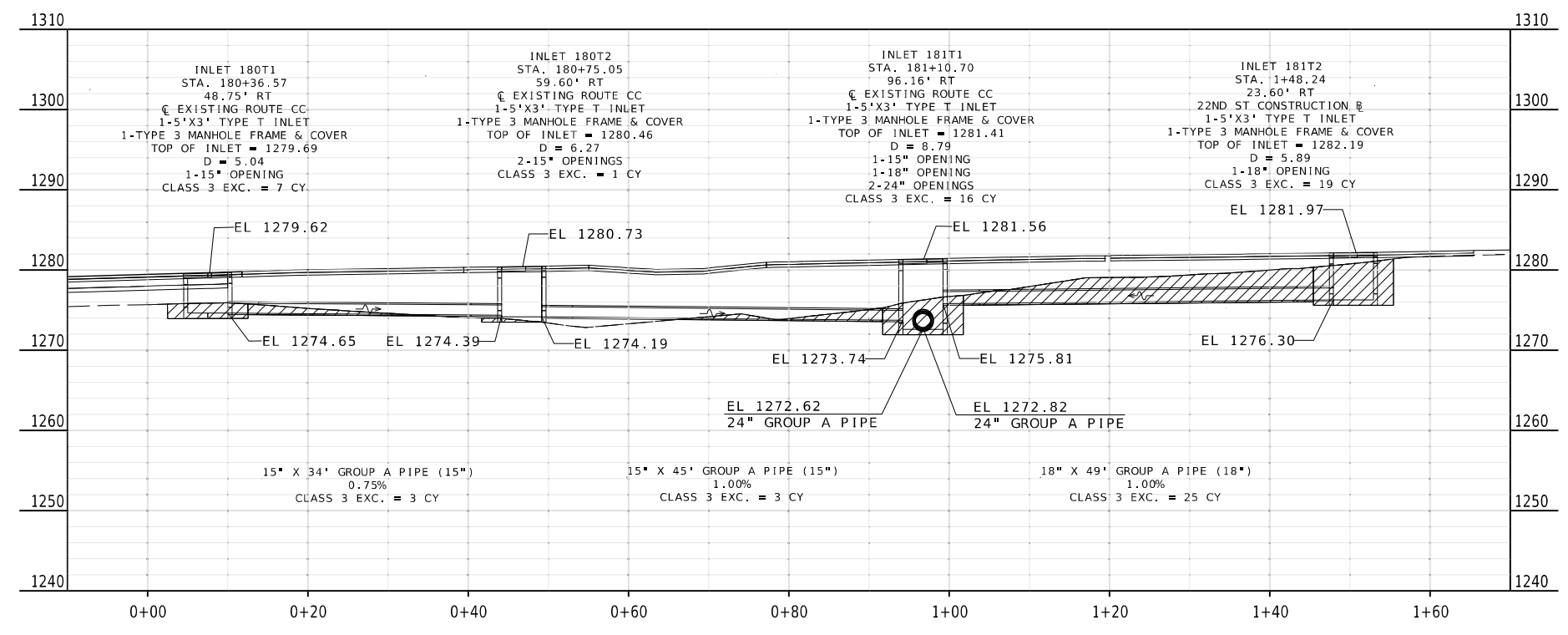
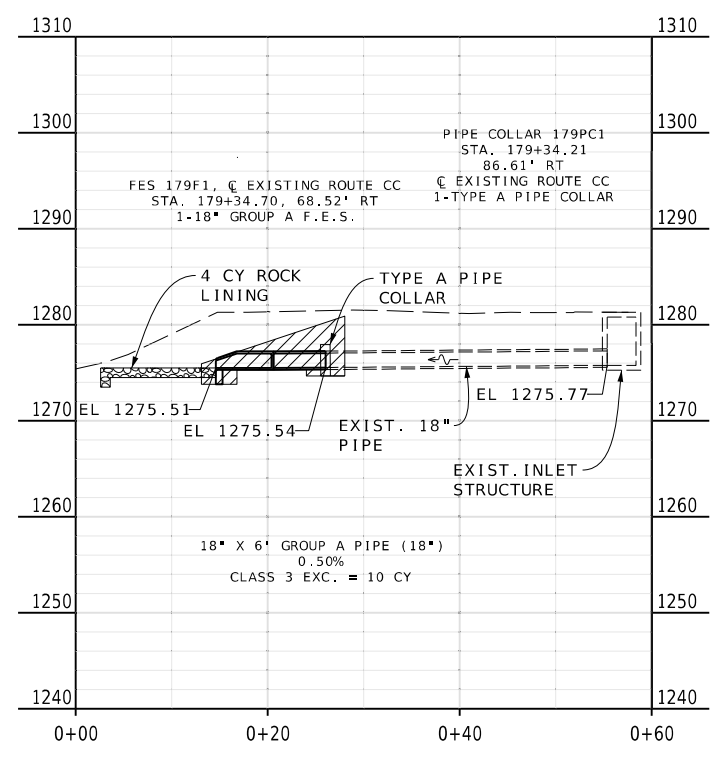
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JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

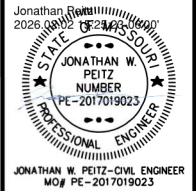


CULVERT SECTIONS  
SHEET 3 OF 8



NOTE:  
SEE STANDARD PLANS  
609.70 FOR ROCK LINING FOR CULVERT OUTLET  
614.30 FOR MANHOLE AND FRAME COVERS  
726.30 FOR RIGID INSTALLATION METHODS - ALL PIPES  
731.10 FOR PRECAST DROP INLET  
732.00 FOR FLARED END SECTION





DATE PREPARED  
2/2/2026

ROUTE STATE  
CC MO

DISTRICT SHEET NO.  
SW 56

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DATE	DESCRIPTION

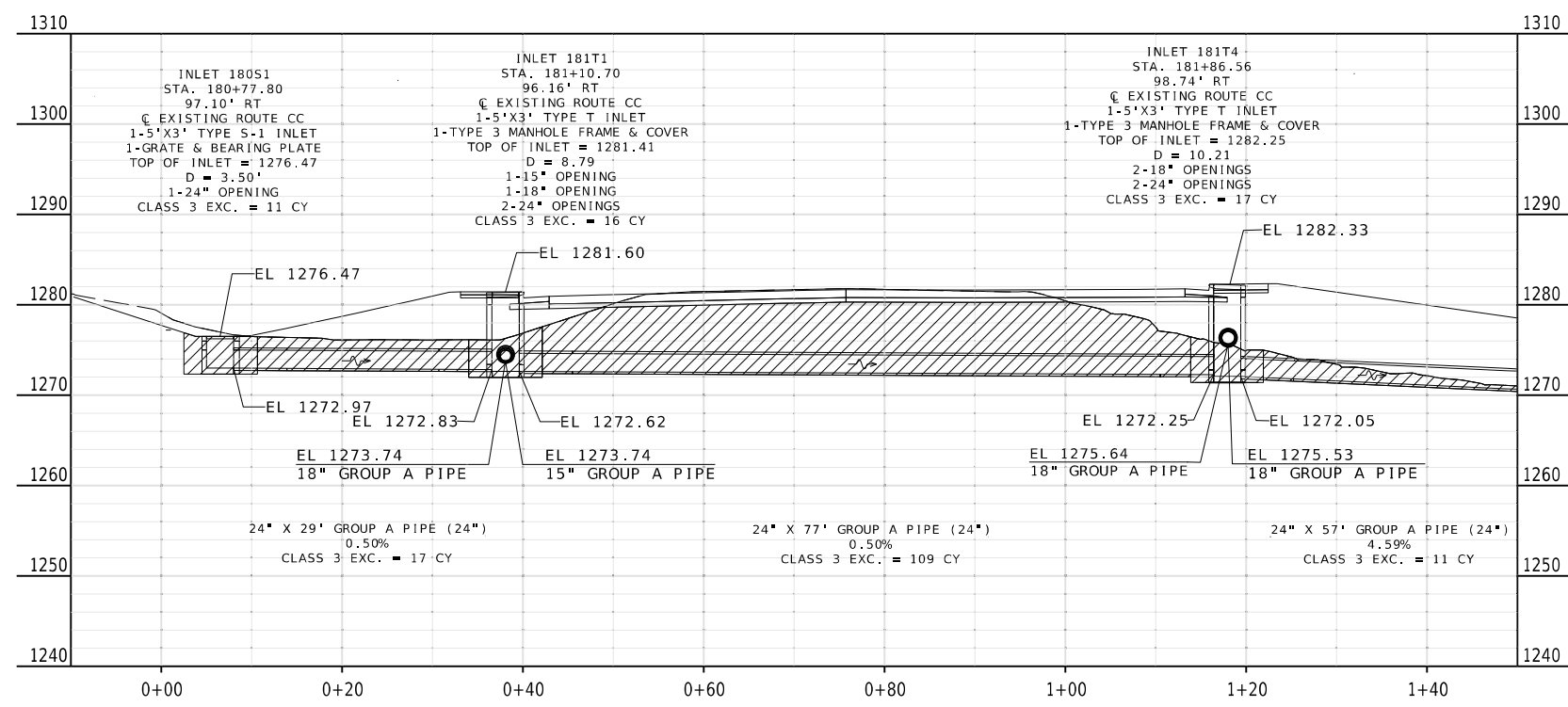
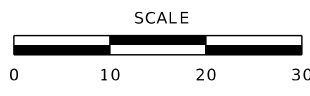
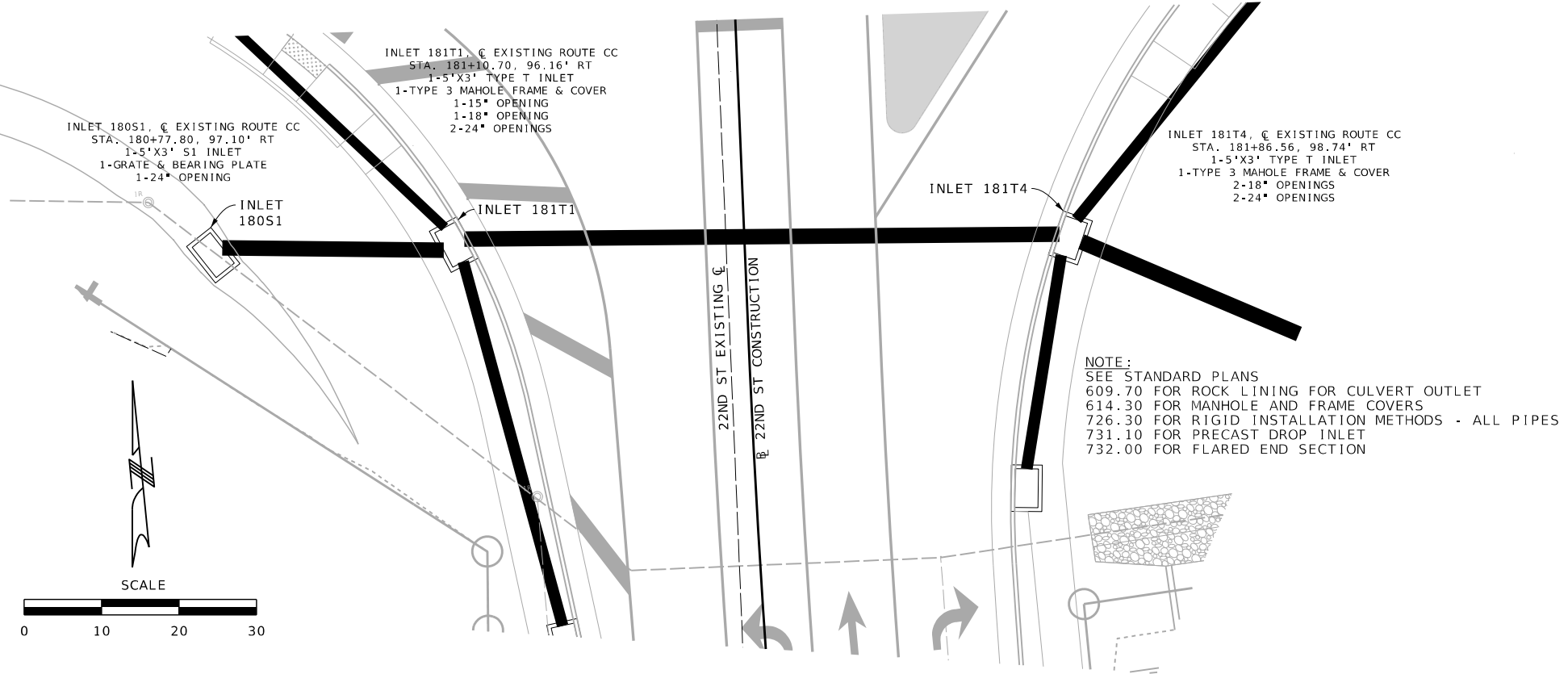
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**olsson**

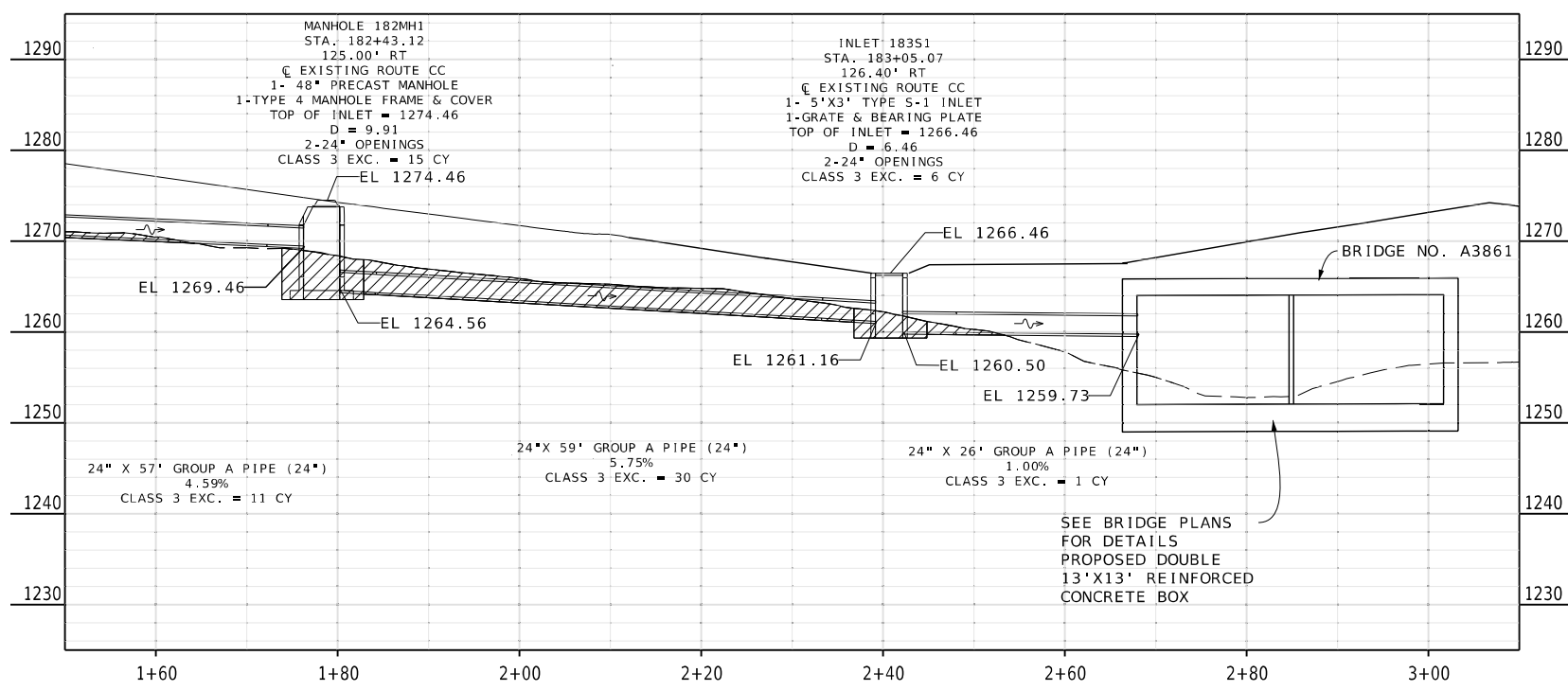
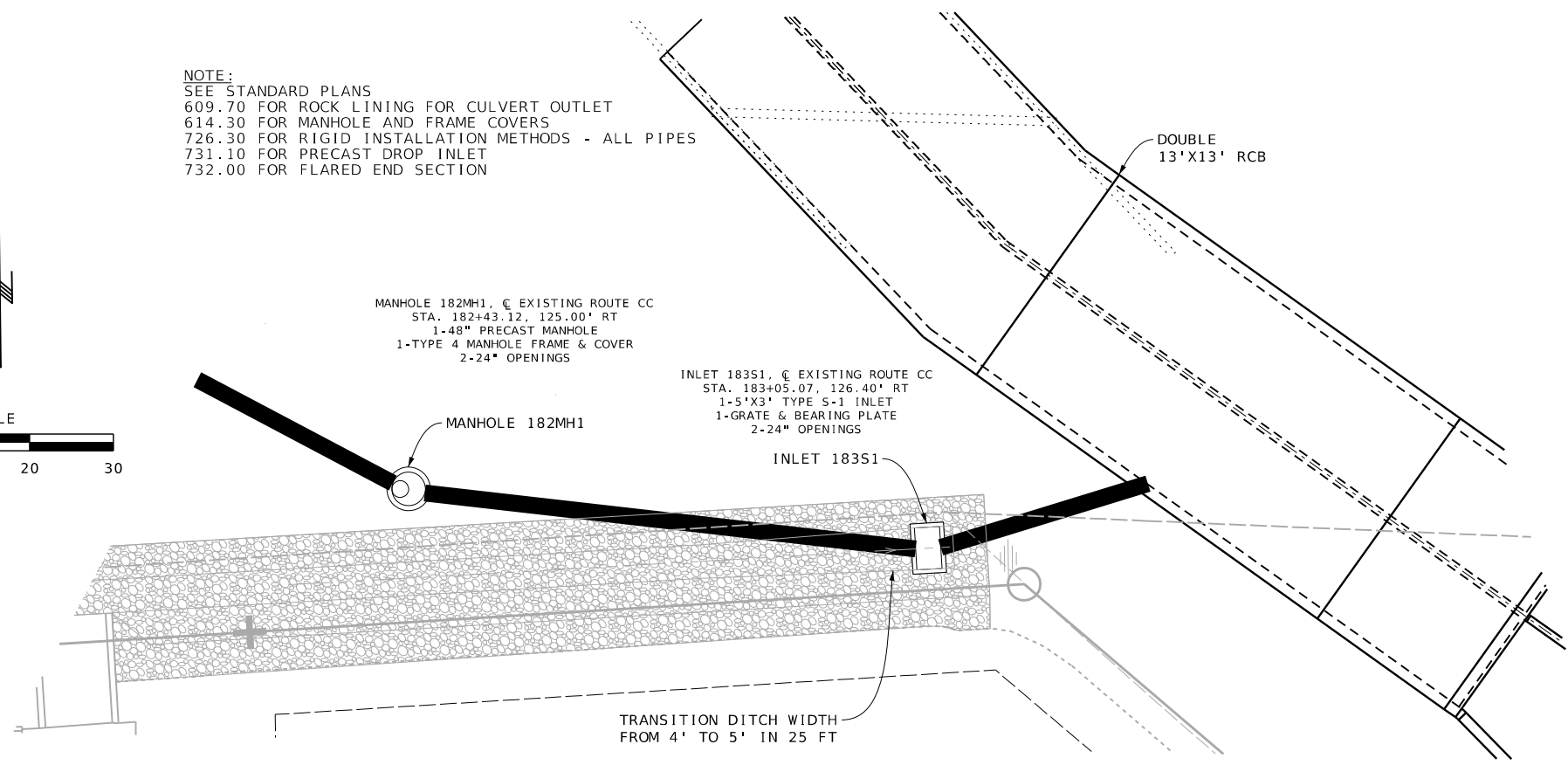
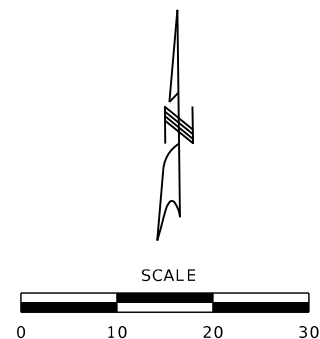
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

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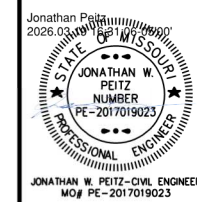


CULVERT SECTIONS  
SHEET 4 OF 8

NOTE:  
 SEE STANDARD PLANS  
 609.70 FOR ROCK LINING FOR CULVERT OUTLET  
 614.30 FOR MANHOLE AND FRAME COVERS  
 726.30 FOR RIGID INSTALLATION METHODS - ALL PIPES  
 731.10 FOR PRECAST DROP INLET  
 732.00 FOR FLARED END SECTION



CULVERT SECTIONS  
 SHEET 5 OF 8



DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 57
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

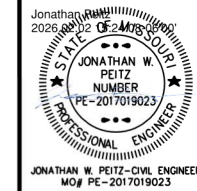
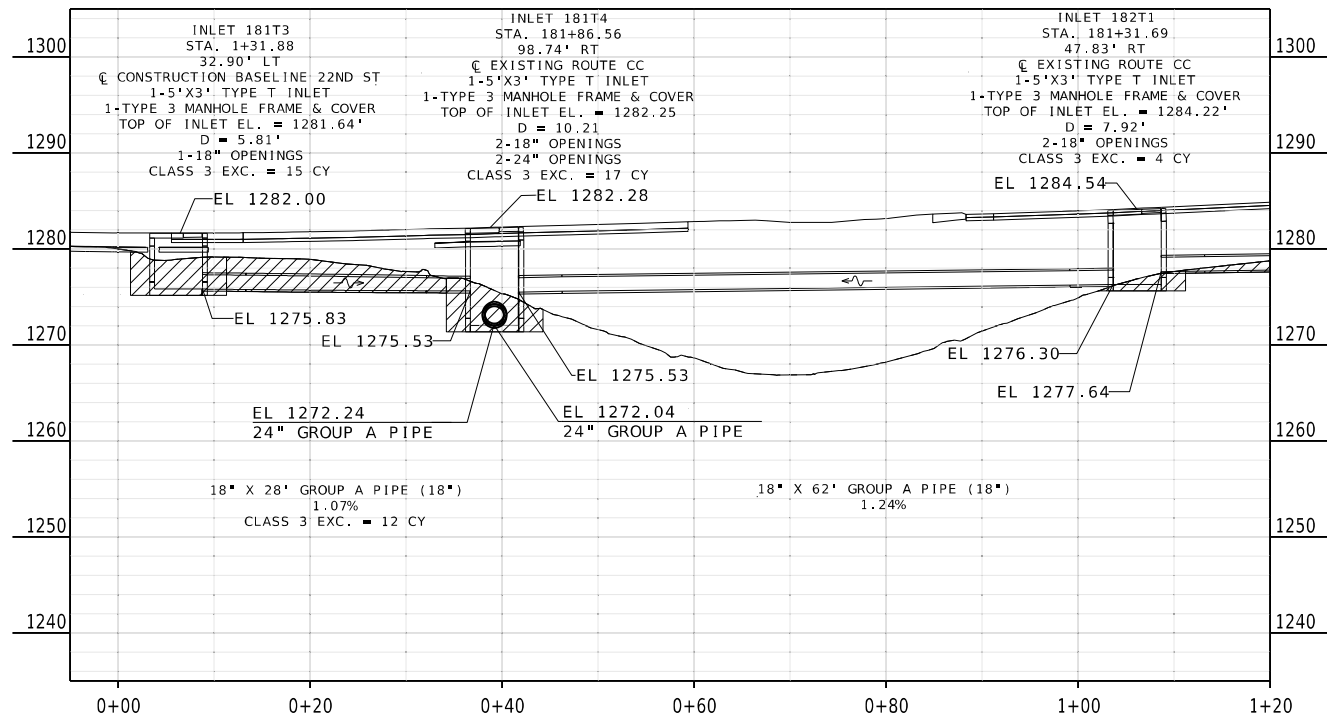
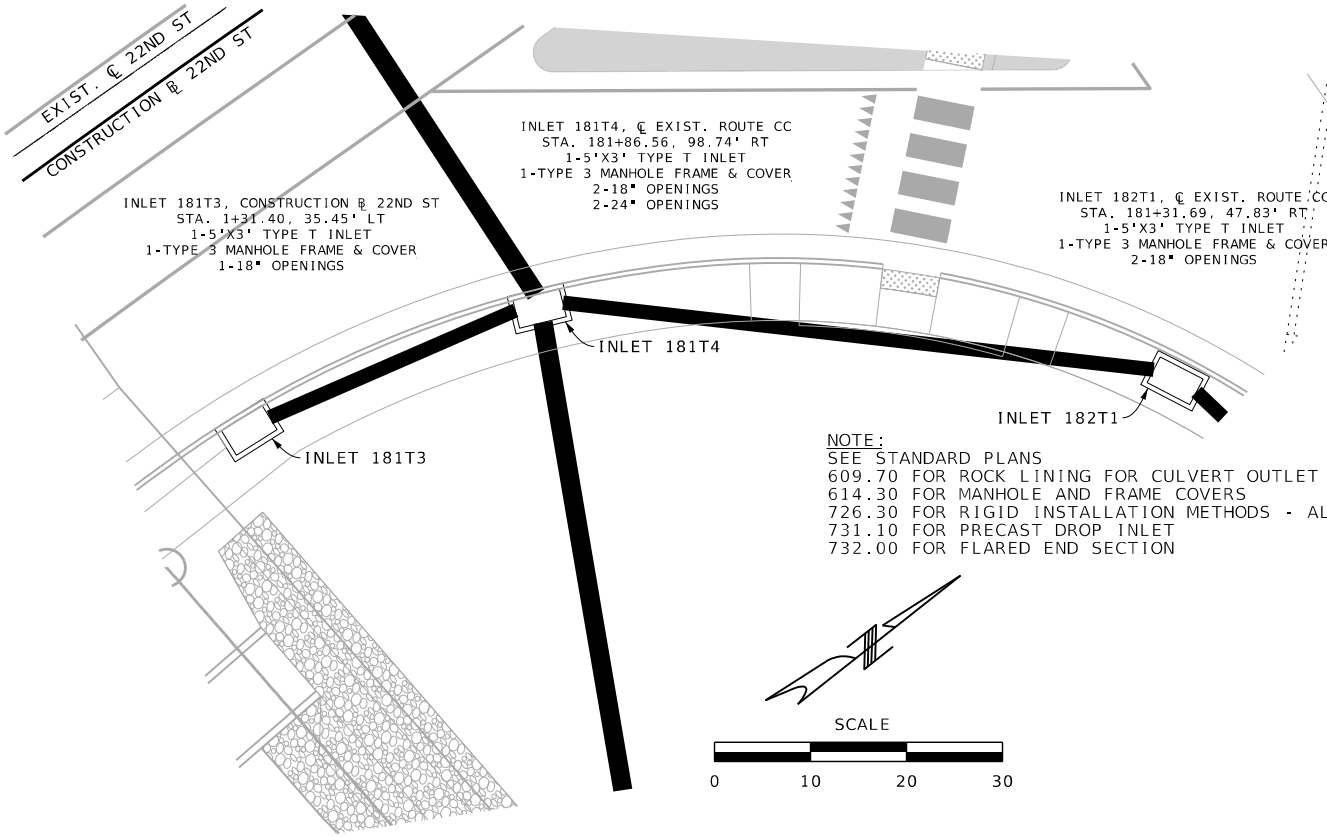
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

550 ST. LOUIS STREET  
 SPRINGFIELD, MO 65806  
 PH. (417) 890-8802  
 CERTIFICATE OF AUTHORITY NO. 001592

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DATE PREPARED	2/2/2026
ROUTE	CC
STATE	MO
DISTRICT	SW
SHEET NO.	58
COUNTY	CHRISTIAN
JOB NO.	J8S0736E
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

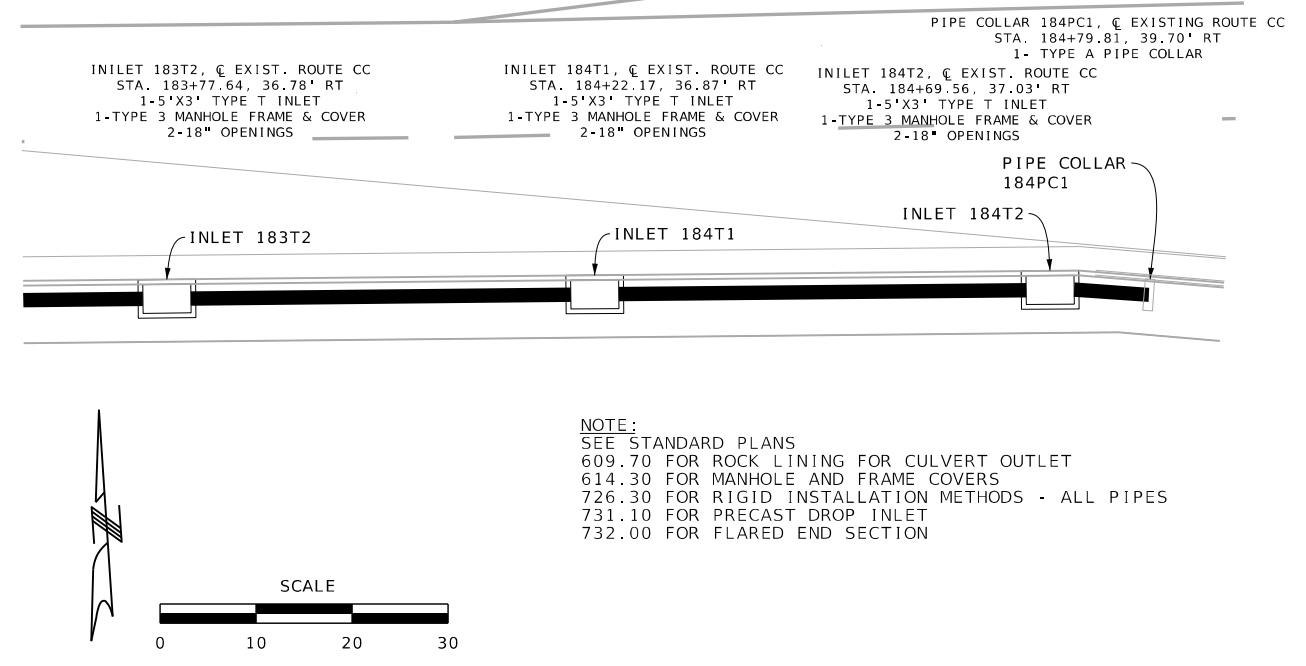
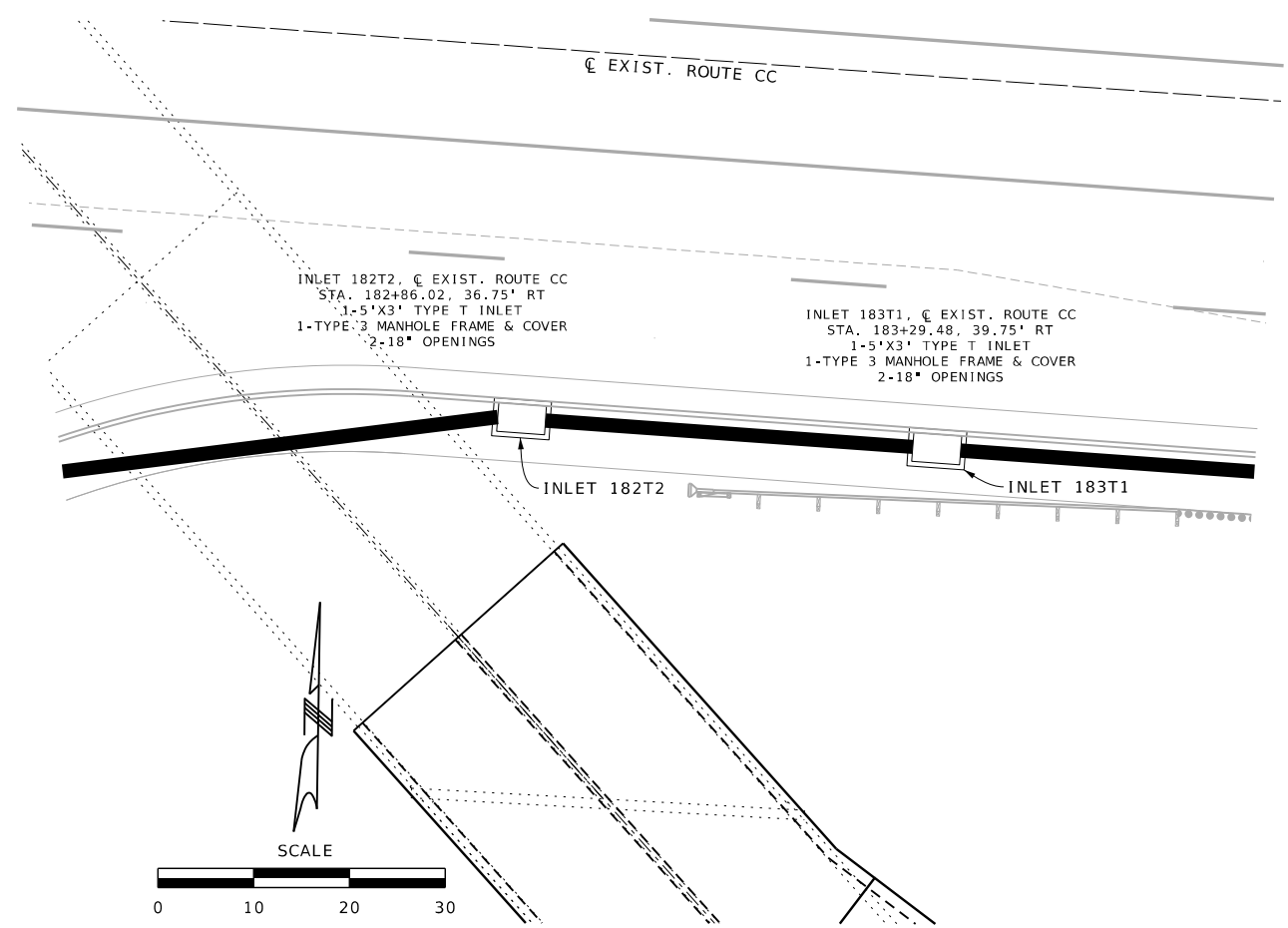
550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF AUTHORITY NO. 001592

CULVERT SECTIONS  
SHEET 6 OF 8

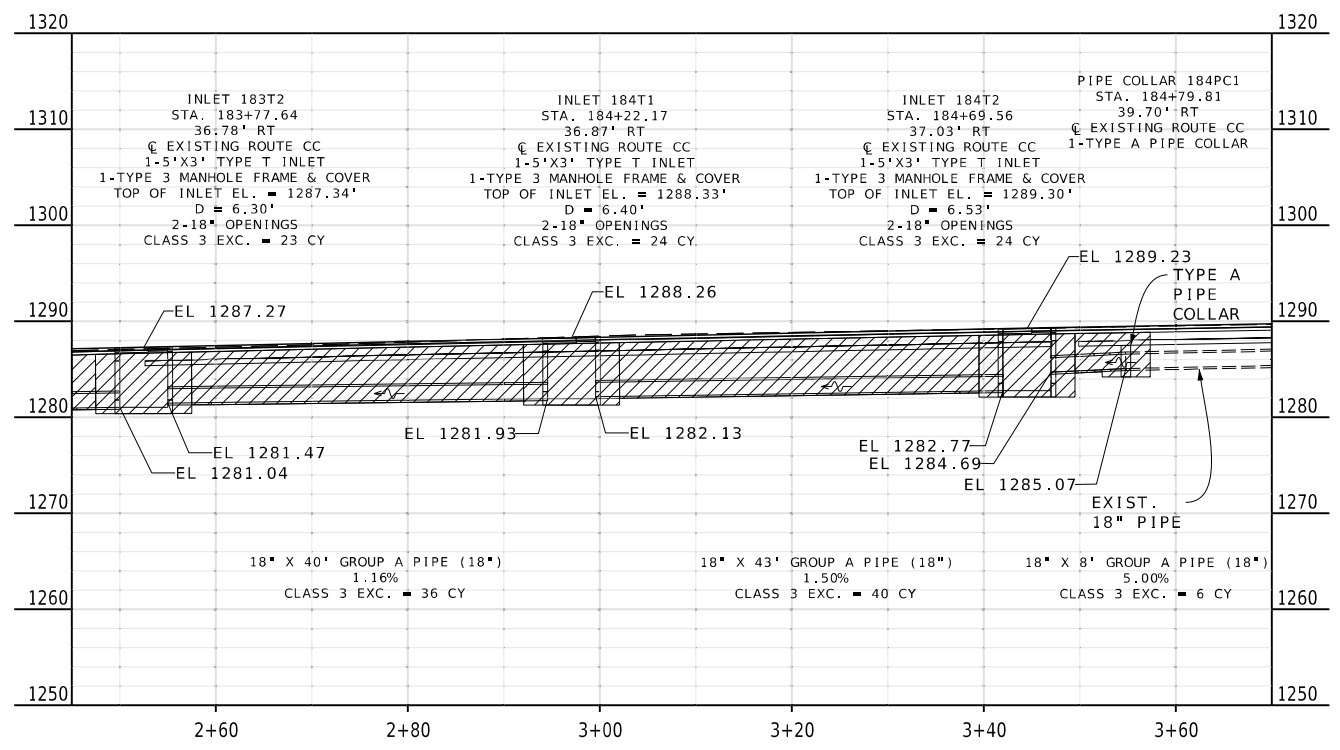
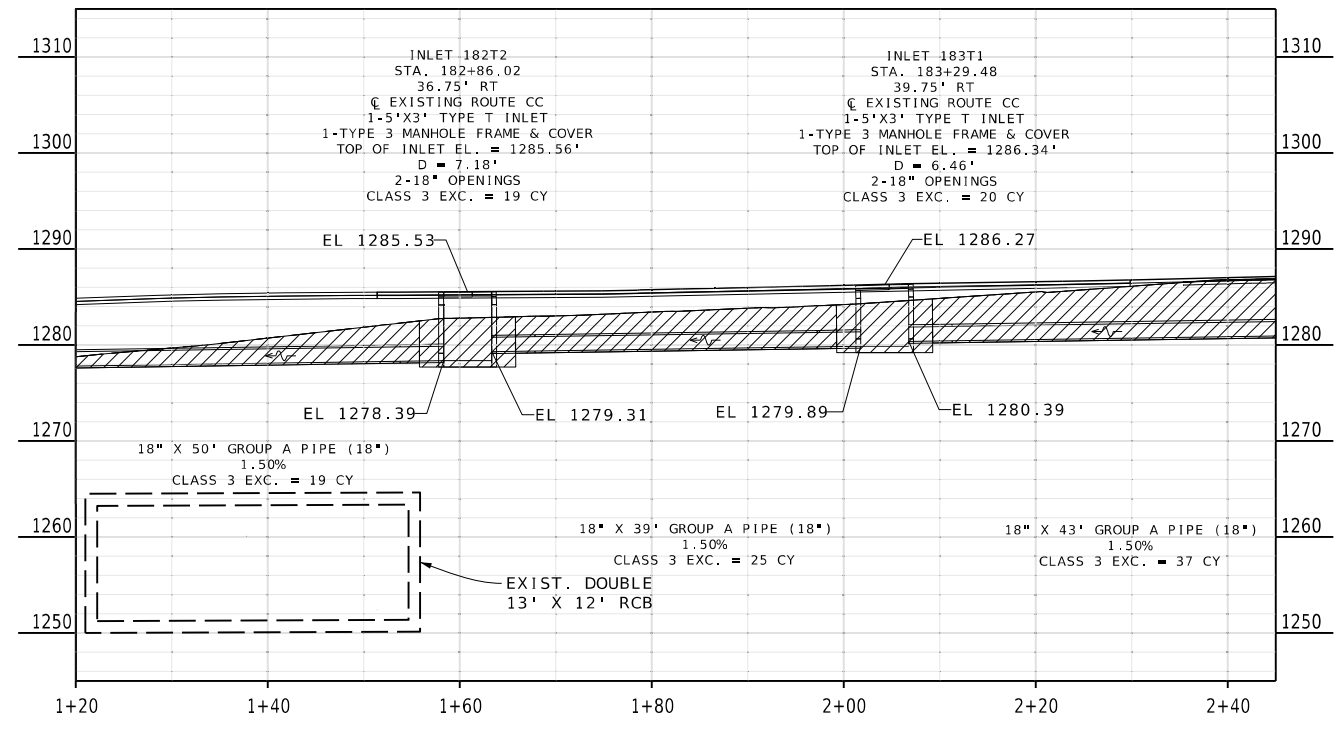
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DATE PREPARED 2/2/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 59
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	



NOTE:  
 SEE STANDARD PLANS  
 609.70 FOR ROCK LINING FOR CULVERT OUTLET  
 614.30 FOR MANHOLE AND FRAME COVERS  
 726.30 FOR RIGID INSTALLATION METHODS - ALL PIPES  
 731.10 FOR PRECAST DROP INLET  
 732.00 FOR FLARED END SECTION



CULVERT SECTIONS  
SHEET 7 OF 8

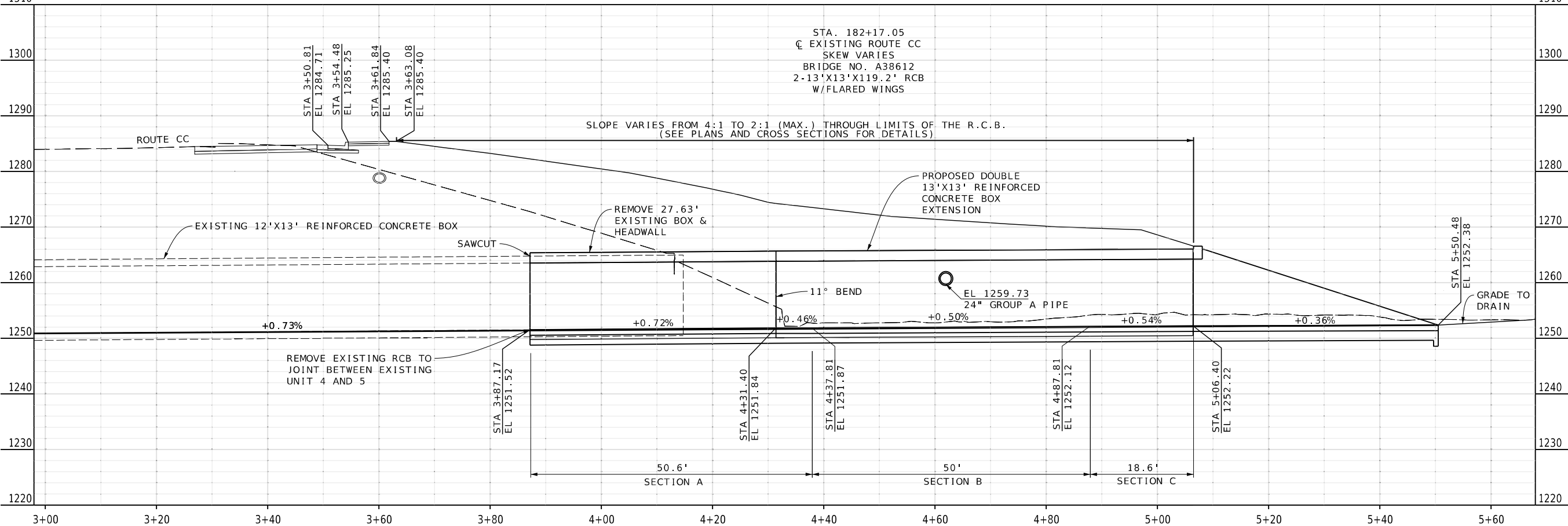
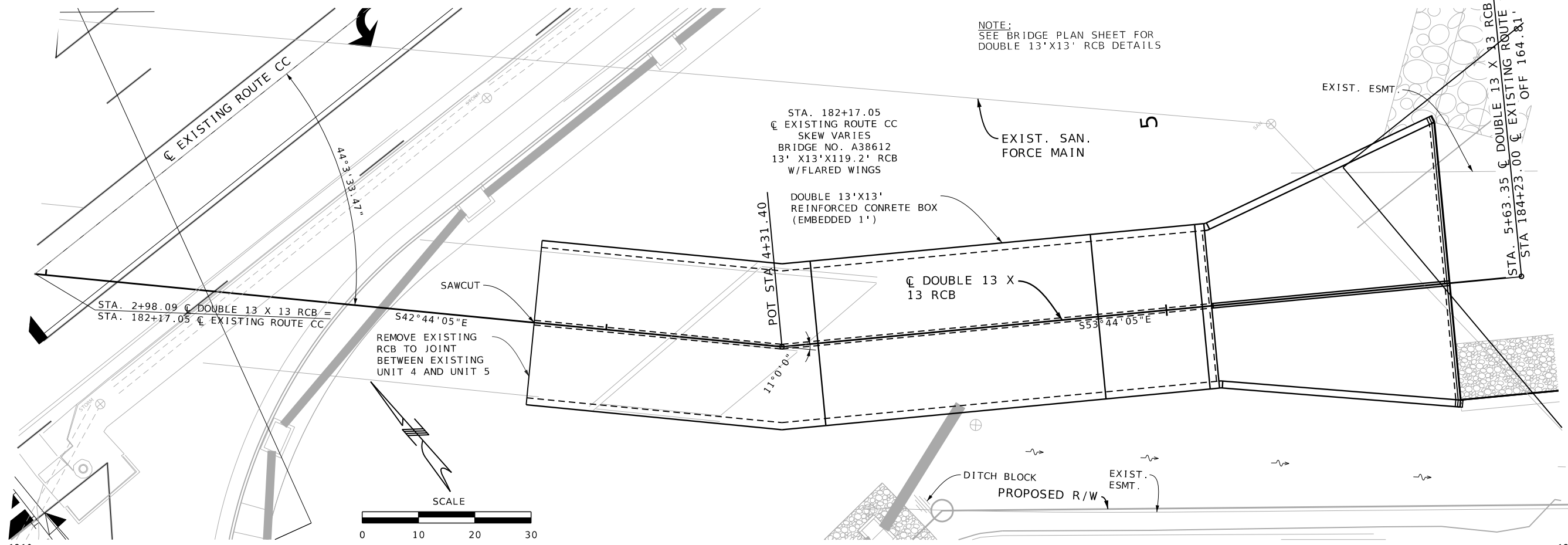
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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CERTIFICATE OF AUTHORITY NO. 001592

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CULVERT SECTIONS  
SHEET 8 OF 8



DATE PREPARED 3/19/2026	
ROUTE CC	STATE MO
DISTRICT SW	SHEET NO. 60
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

**MoDOT**

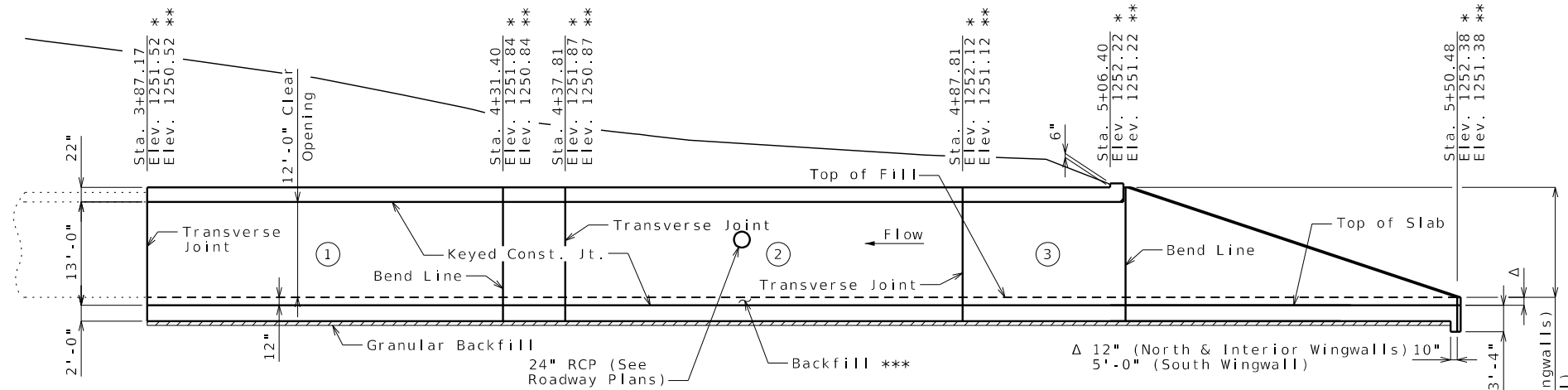
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**Olsson**

550 ST. LOUIS STREET  
SPRINGFIELD, MO 65806  
PH. (417) 890-8802  
CERTIFICATE OF  
AUTHORITY NO. 001592

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

**U.I.P. EXISTING 2(12'± X 13'±) CONCRETE BOX CULVERT ON ROCK AND EXTEND UPSTREAM 2(13' X 13') CONCRETE BOX CULVERT  
(1' EMBEDMENT - CLEAR OPENING 12' X 13')**



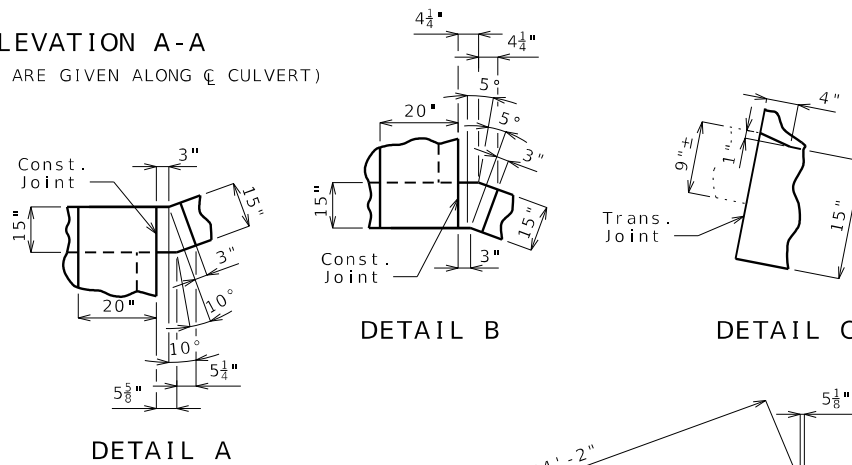
\* Flowline Elev. (With Fill)  
 \*\* Top of Slab Elev. (13' Box Constructed)  
 \*\*\* 50-50 mix of Type 5 Aggregate and an approved lean clay

**GENERAL ELEVATION A-A**  
(STATIONS AND ELEVATIONS ARE GIVEN ALONG CULVERT)

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

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

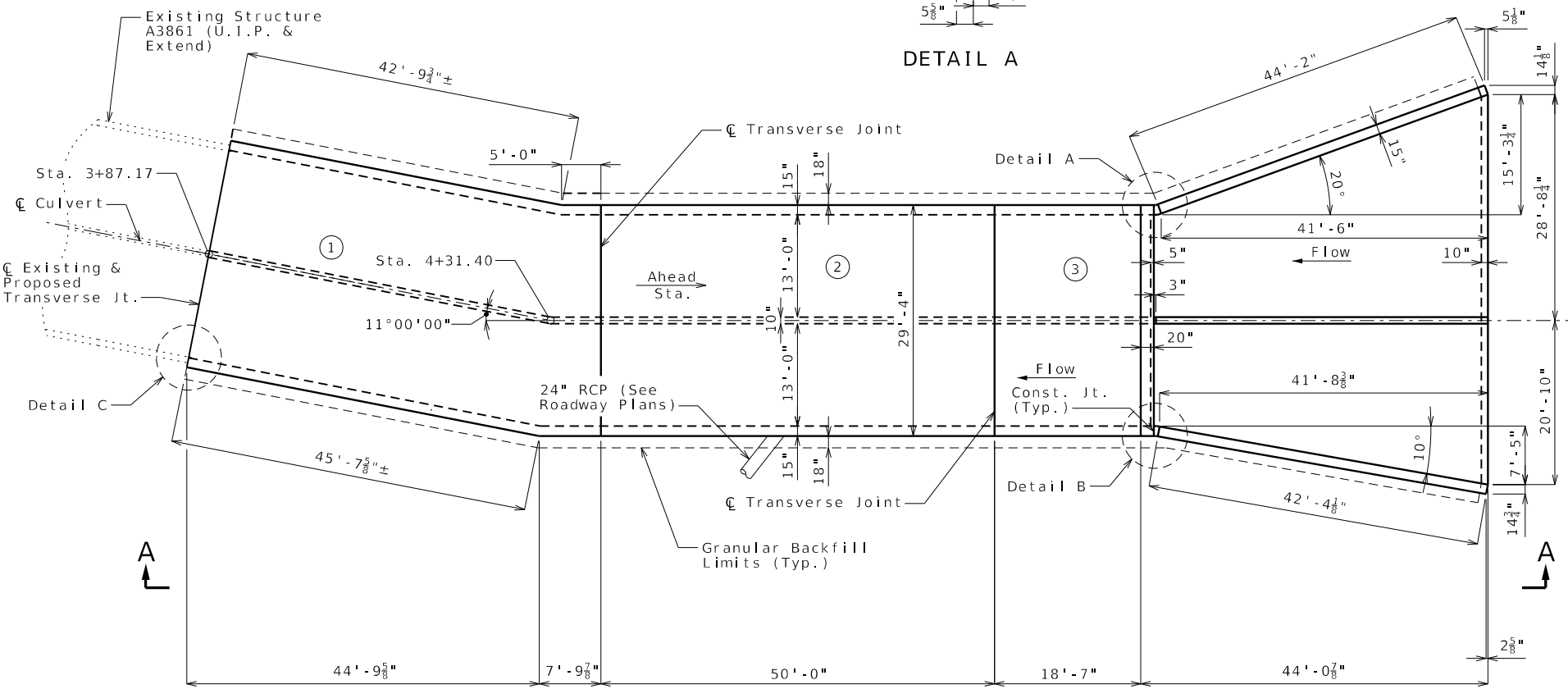
If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.



**DETAIL A**

**DETAIL B**

**DETAIL C**



**PLAN OF LAYOUT DIMENSIONS**

**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, 703.38 & 703.60

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.

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)

Excavate rock 6 inches below bottom slab and backfill with suitable material for culverts on rock in accordance with Sec 206.

Backfill within culvert shall be a 50-50 mix of Type 5 Aggregate and an approved lean clay. The total volume shall be measured and paid for as Type 5 Aggregate per cubic yard.

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

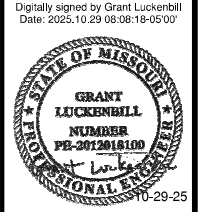
Fill Height		24" Pipe Inlet Data	
Station	Offset	F.L. Elev.	
Design (All units) = 22 ft			
4+61.94	13.42' LT	1259.73	

Hydrologic Data	
Drainage Area = 3.8 mi <sup>2</sup>	
Design Flood Frequency = 50 years	
Design Flood Discharge = 2300 cfs	
Design Flood (D.F.) Elevation = 1263.6	
Base Flood (100-year)	
Base Flood Elevation = 1264.7	
Base Flood Discharge = 2800 cfs	
Estimated Backwater = 0.4 ft	
Outlet Velocity = 2.1 ft/s	
Roadway Overtopping	
Overtopping Flood Discharge = N/A	
Overtopping Flood Frequency = >500 years	
500-Year Flood Elevation = 1267.4	

Estimated Quantities		Final Quantities
Class 4 Excavation	cu. yard	1335
Class 4 Excavation in Rock	cu. yard	565
Dewatering	lump sum	1
Partial Removal of Culvert-Bridge Concrete	lump sum	1
Type 5 Aggregate	cu. yard	175
Class B-1 Concrete (Culverts-Bridge)	cu. yard	875.1
Reinforcing Steel (Culverts-Bridge)	pound	94,380

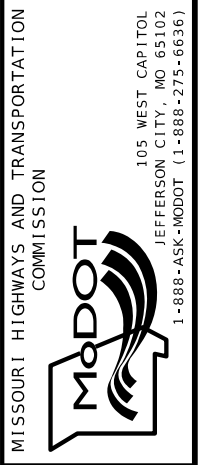
B.M. - SQUARE ON NORTHEAST CORNER OF EAST END RETAINING WALL  
 79.83' LT. OF RTE. CC  
 STA. 182+44.80, ELEV. 1279.37

**REPAIRS TO CULVERT-BRIDGE: ROUTE CC  
 OVER TRIBUTARY OF JAMES RIVER**  
 ROUTE CC FROM ROUTE 65 TO ROUTE 160  
 ABOUT 0.2 MILES WEST OF ROUTE 65  
 TIE STA. 182+17.05± (Match existing)



DATE PREPARED	10/29/2025
ROUTE	CC
STATE	MO
DISTRICT	BR
SHEET NO.	1
COUNTY	CHRISTIAN
JOB NO.	J8S0736E
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	A38612

DATE	DESCRIPTION

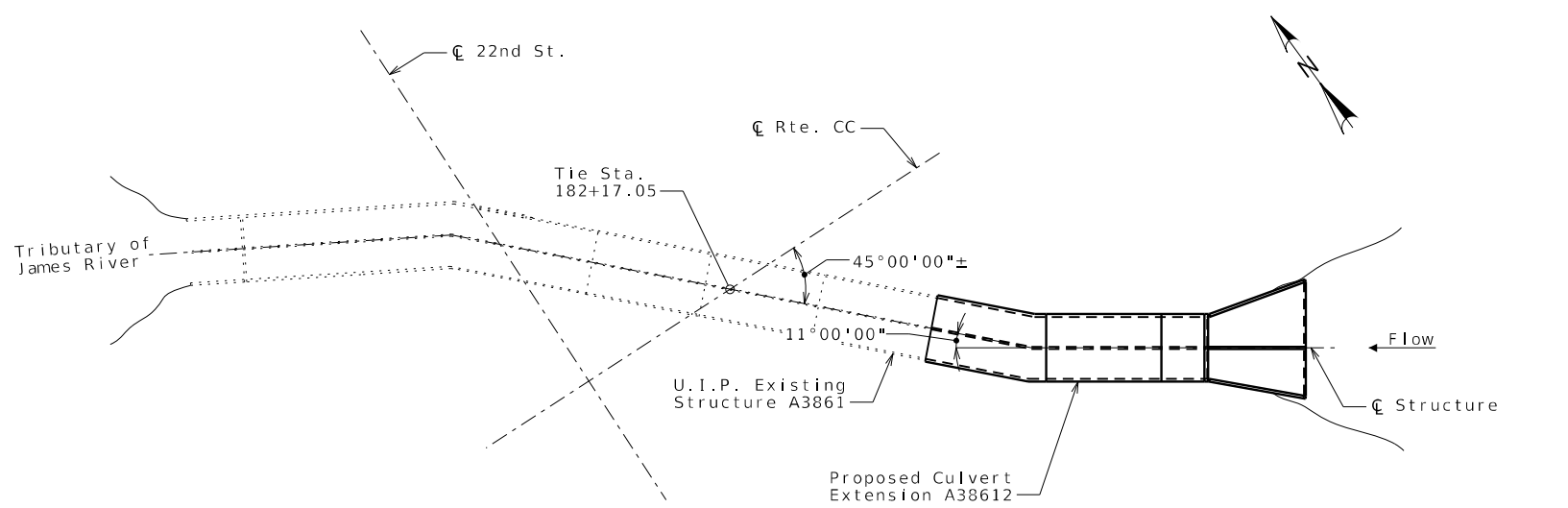


**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

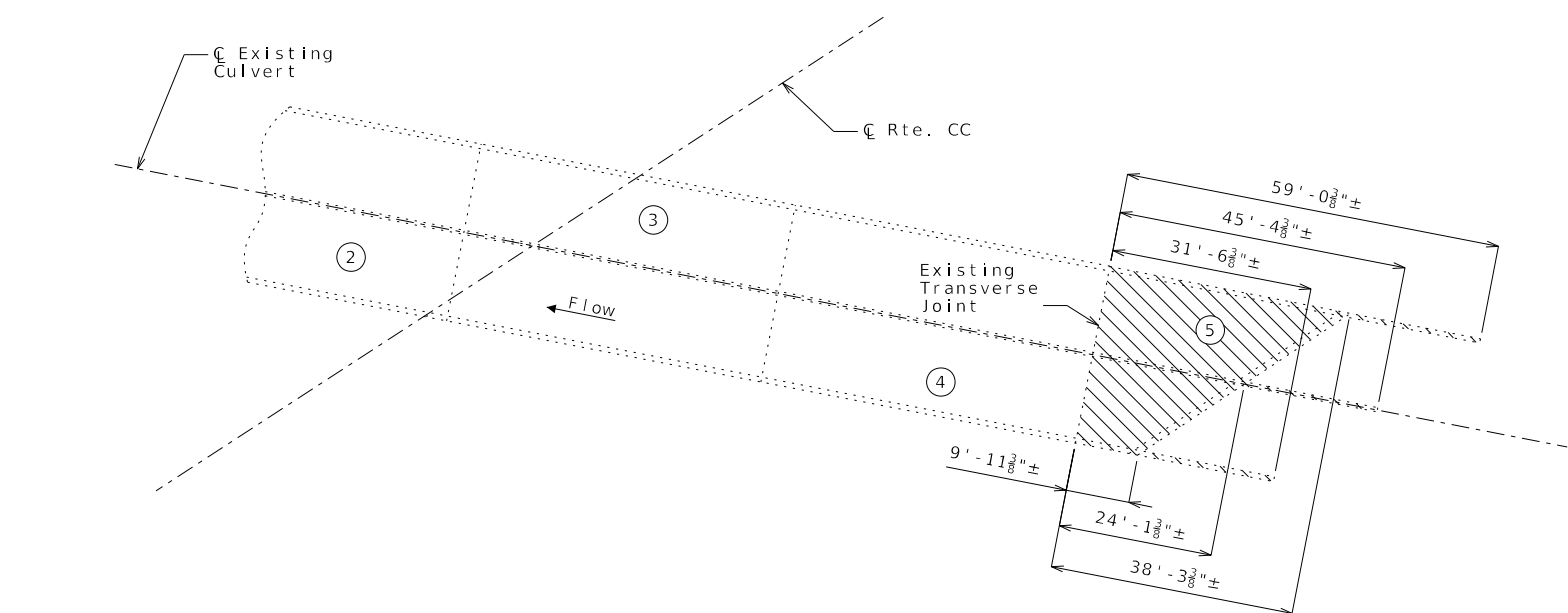
Detailed April 2025  
 Checked June 2025

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

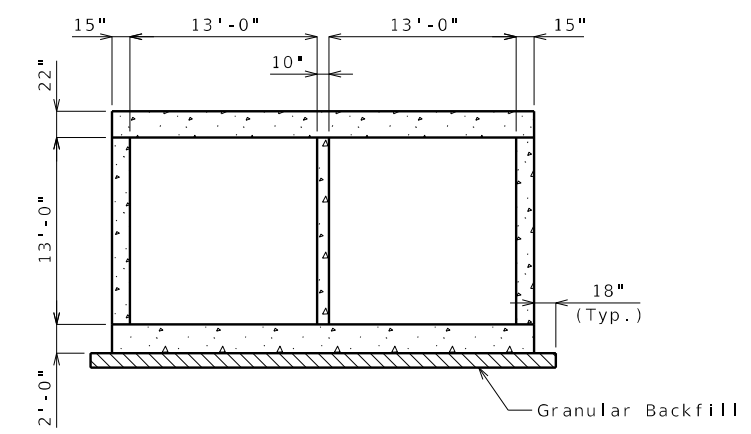
Sheet No. 1 of 31



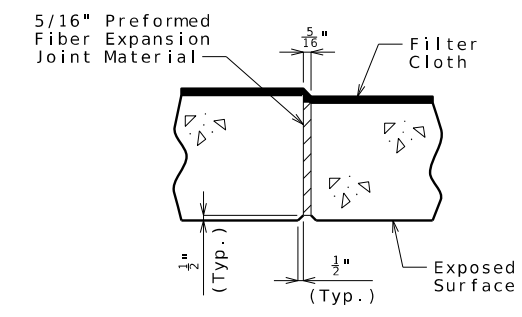
LOCATION SKETCH



PART PLAN SHOWING CONCRETE REMOVAL  
Hatched area indicates area of concrete to be removed.



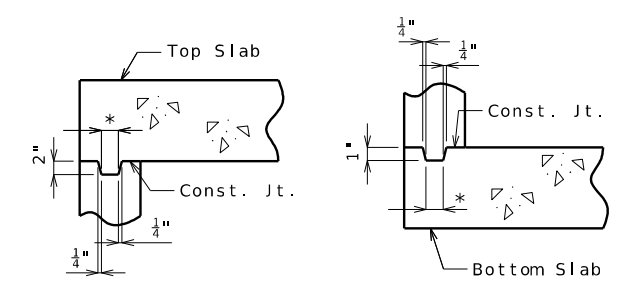
GRANULAR BACKFILL LIMITS AND MEMBER DIMENSIONS



TRANSVERSE JOINT THRU BARREL

Preformed fiber expansion joint material in accordance with Sec 1057 shall be securely stitched to one face of the concrete with 10 Gage copper wire or 12 Gage soft drawn galvanized steel wire.

Filter cloth 3 feet in width and double thickness shall be centered on transverse joints in top slab and sidewalls with edges sealed with mastic or two-sided tape. Filter cloth shall be a separation geotextile in accordance with Section 1011. Cost of furnishing and installing filter cloth will be considered completely covered by the contract unit price for other items.



KEYED CONSTRUCTION JOINT

Exterior wall shown, interior wall similar  
\* Approximately one third of wall thickness

Digitally signed by Grant Luckenbill  
Date: 2025.10.28 21:57:48-0500

DATE PREPARED  
10/28/2025

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
BR	2

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

---

PROJECT NO.

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BRIDGE NO.  
A38612

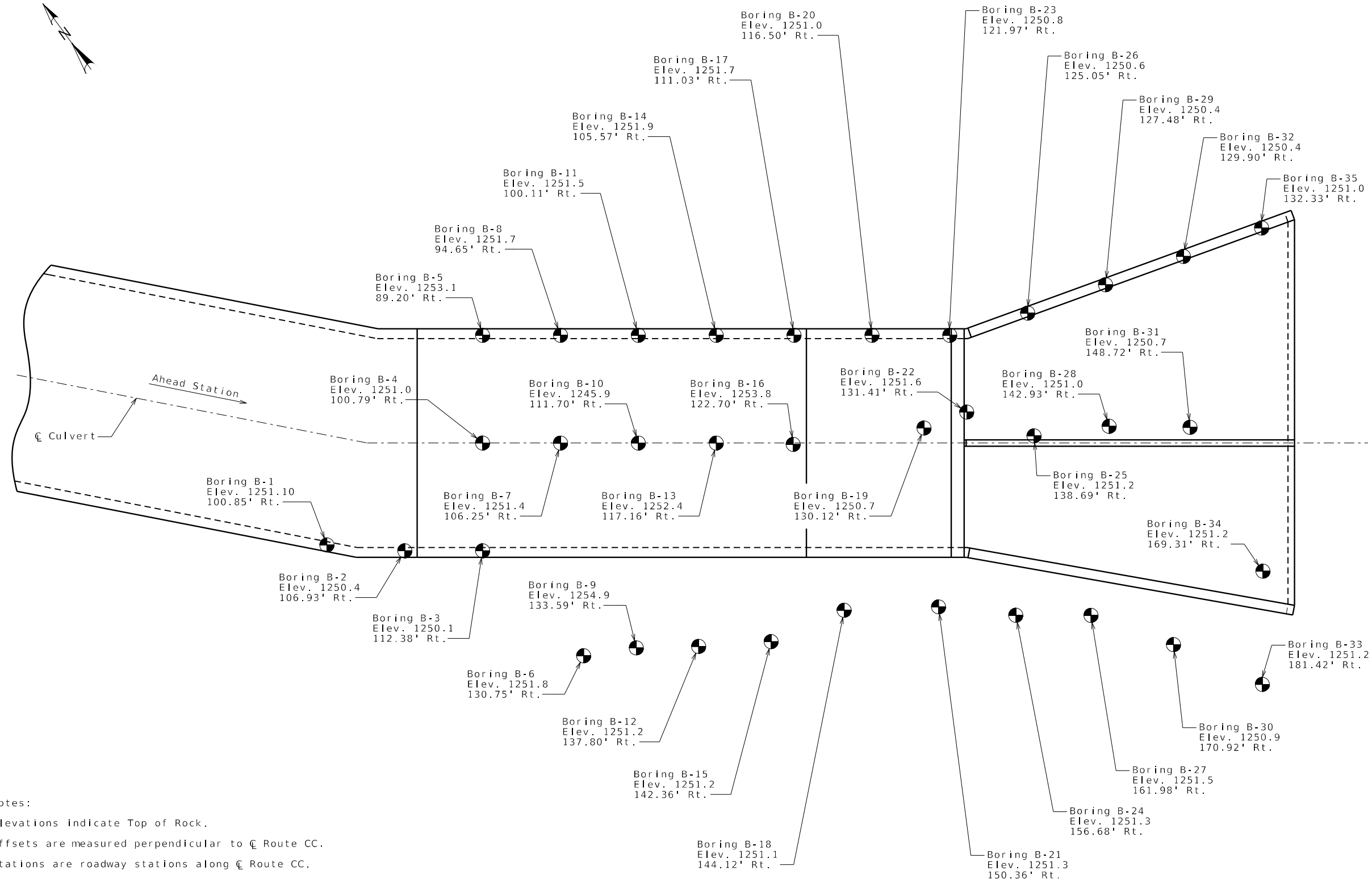
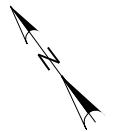
NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

olsson

1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177  
CERTIFICATE OF AUTHORITY NO. 001592



Boring	Station (ft)
B-1	183+01.38
B-2	183+09.35
B-3	183+17.73
B-4	183+25.27
B-5	183+32.82
B-6	183+21.26
B-7	183+33.65
B-8	183+41.17
B-9	183+24.48
B-10	183+42.00
B-11	183+49.53
B-12	183+34.27
B-13	183+50.35
B-14	183+57.88
B-15	183+42.38
B-16	183+58.51
B-17	183+66.23
B-18	183+52.42
B-19	183+73.67
B-20	183+74.58
B-21	183+62.74
B-22	183+79.37
B-23	183+82.92
B-24	183+70.43
B-25	183+84.91
B-26	183+92.82
B-27	183+78.47
B-28	183+93.62
B-29	184+03.14
B-30	183+85.25
B-31	184+02.21
B-32	184+13.46
B-33	183+91.98
B-34	183+99.95
B-35	184+23.78

Notes:

Elevations indicate Top of Rock.

Offsets are measured perpendicular to  $\bar{C}$  Route CC.

Stations are roadway stations along  $\bar{C}$  Route CC.

⊙ Indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations for the design of the project, are shown on Sheet(s) No. 13 thru 31. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

**PLAN SHOWING BORING LOCATIONS AND TOP OF ROCK ELEVATIONS**

Digitally signed by Grant Luckenbill  
Date: 2025.10.28 21:57:49-0500'

GRANT C. LUCKENBILL-ENGINEER  
MO# FE-2012018100

DATE PREPARED  
**10/28/2025**

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
BR	3

COUNTY  
**CHRISTIAN**

JOB NO.  
**J8S0736E**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
**A38612**

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

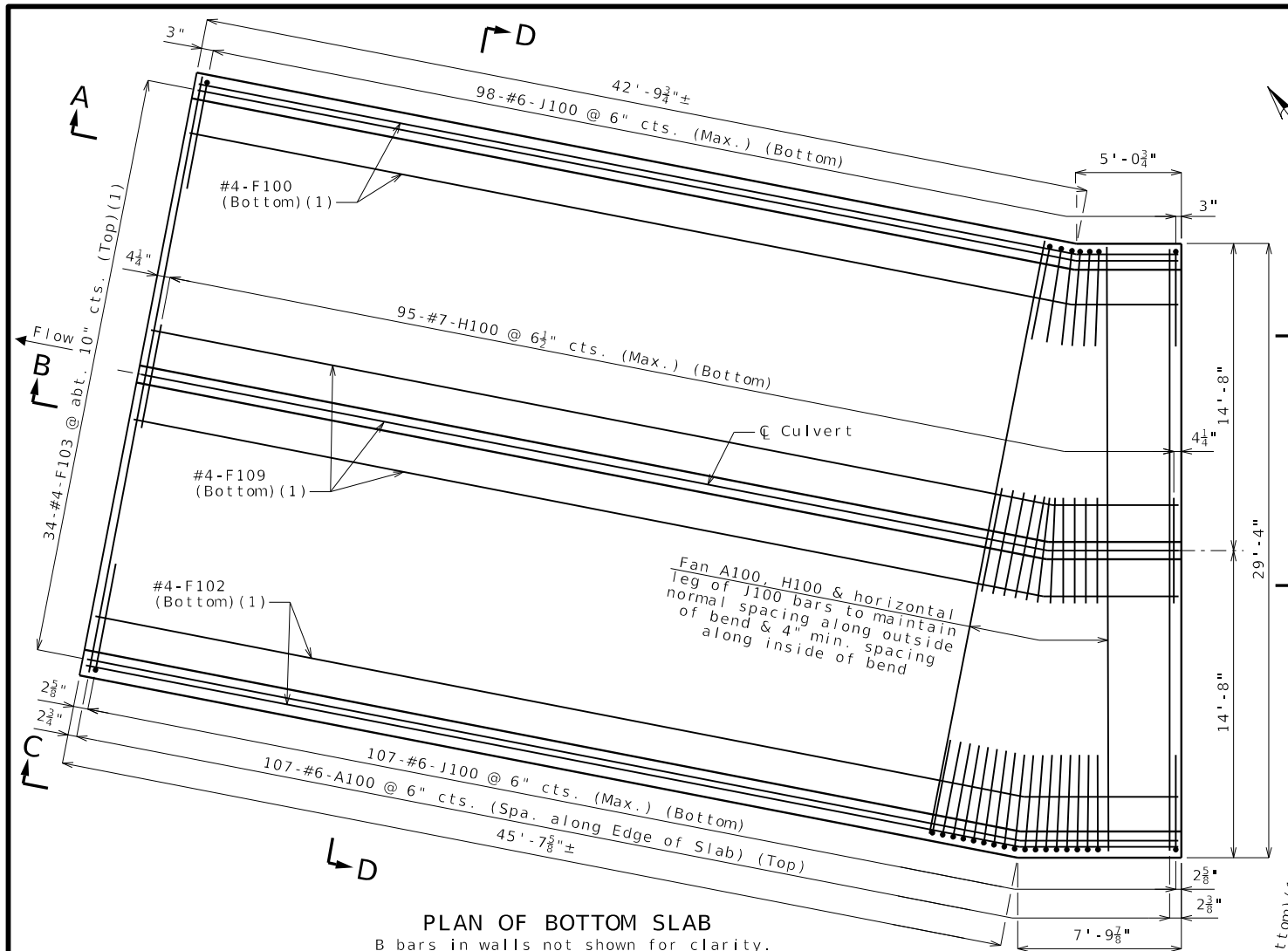
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

**Olsson**  
1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177  
CERTIFICATE OF AUTHORITY NO. 001592

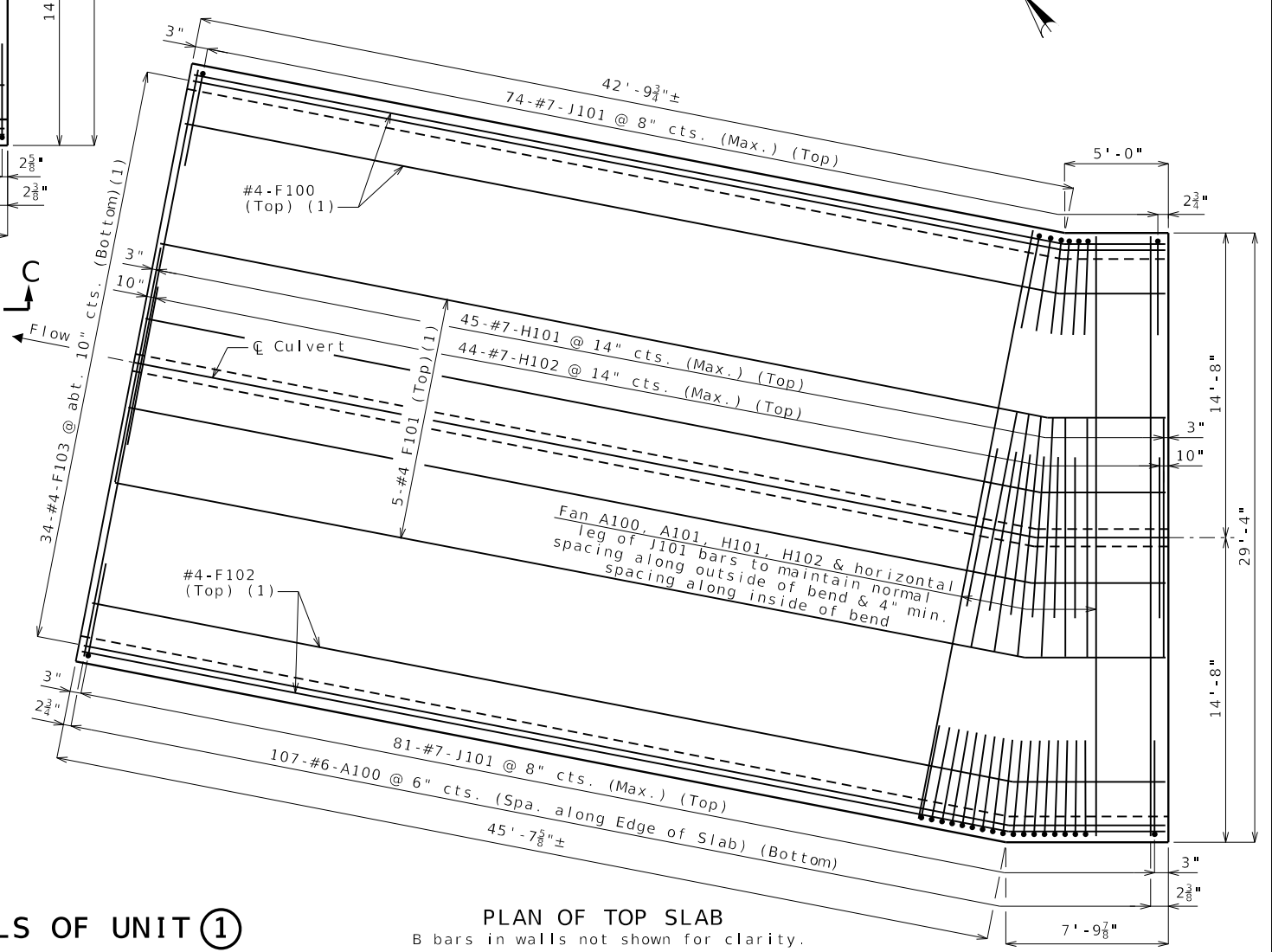
Detailed April 2025  
Checked June 2025

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

Sheet No. 3 of 31



**PLAN OF BOTTOM SLAB**  
 B bars in walls not shown for clarity.  
 For placement, see Sheet No. 5.



**PLAN OF TOP SLAB**  
 B bars in walls not shown for clarity.  
 For placement, see Sheet No. 5.

**DETAILS OF UNIT ①**

Notes:  
 For Section A-A, B-B, C-C and D-D see Sheet No. 5.  
 For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.  
 Work this sheet with Sheet No. 5.  
 (1) Bend in field to conform to structure alignment.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 4 of 31

Digitally signed by Grant Luckenbill  
 Date: 2025.10.28 21:57:49-05'00'

DATE PREPARED 10/28/2025	
ROUTE CC	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY CHRISTIAN	
JOB NO. J850736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

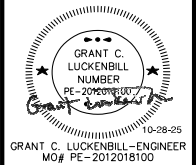
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**Olsson**

1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592



DATE PREPARED 10/28/2025	
ROUTE CC	STATE MO
DISTRICT BR	SHEET NO. 5
COUNTY CHRISTIAN	
JOB NO. J8S0736E	
CONTRACT ID.	

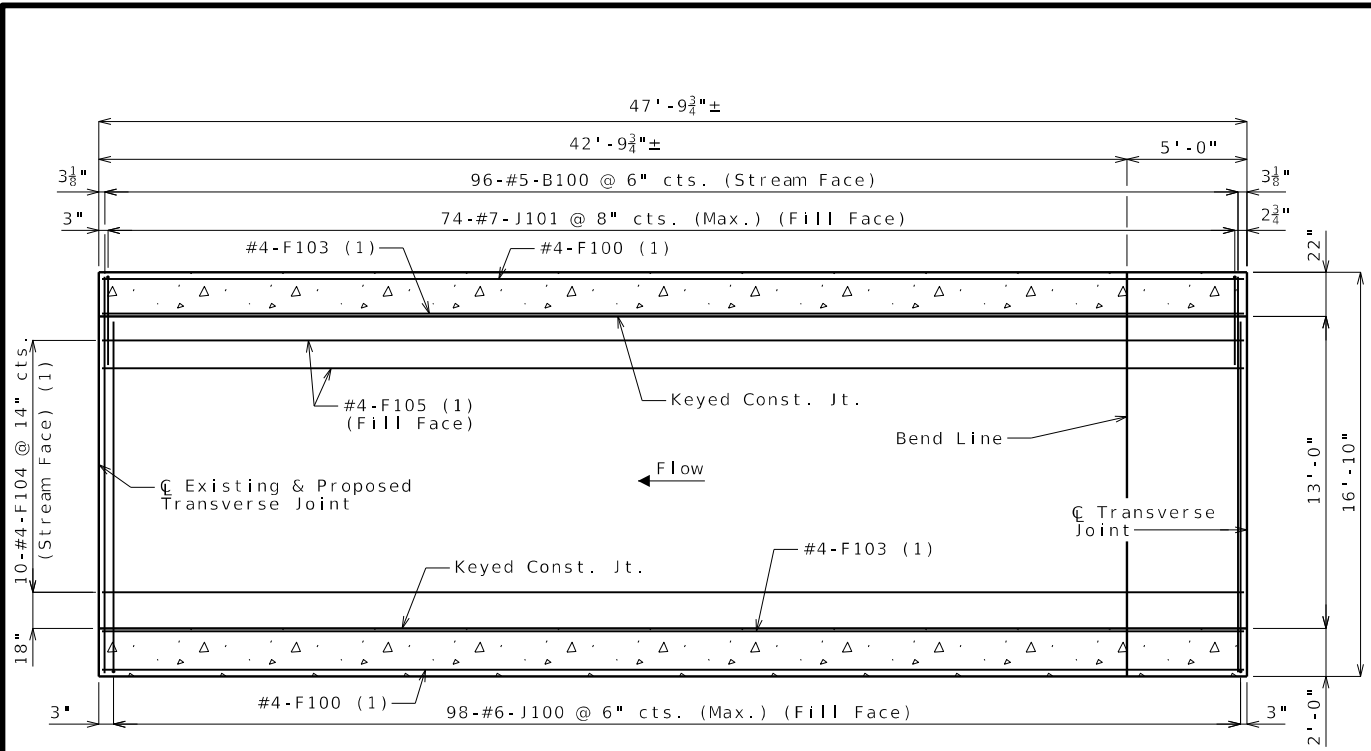
PROJECT NO.
BRIDGE NO. A38612

DATE	DESCRIPTION

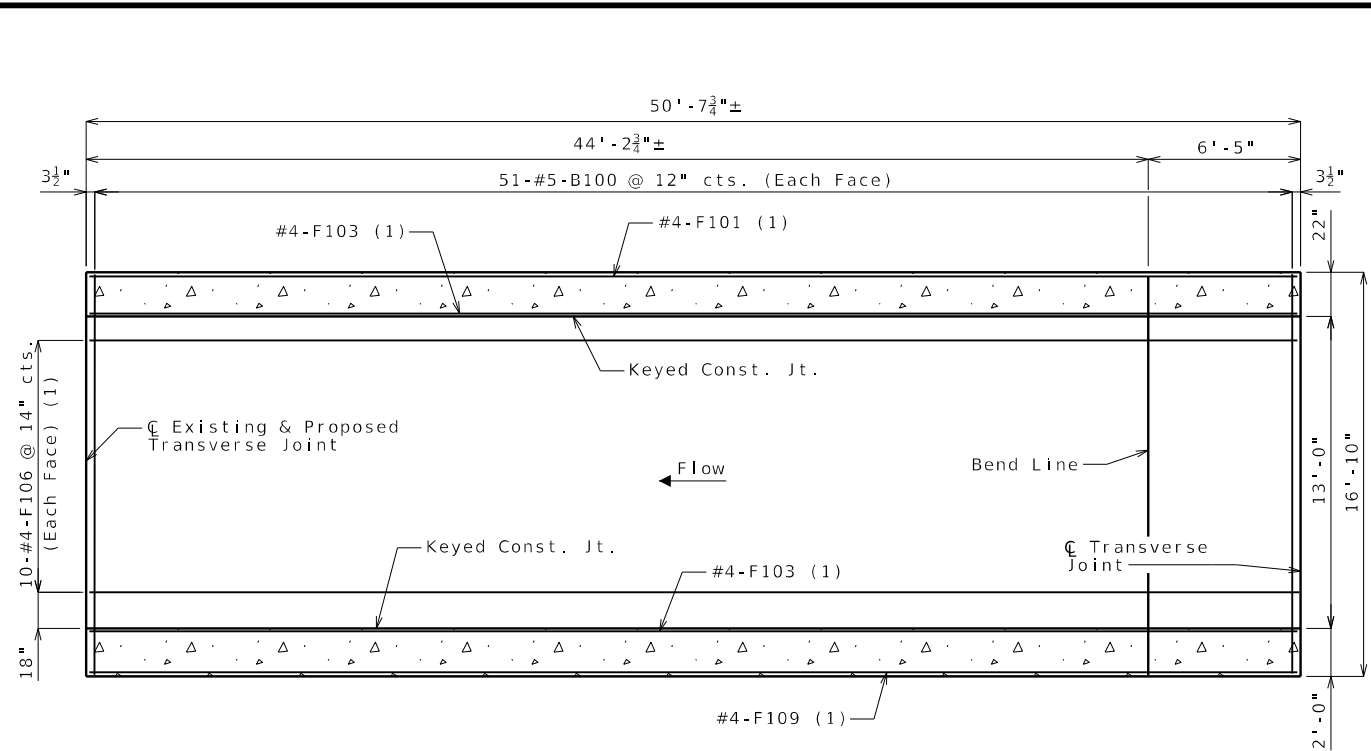
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  

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

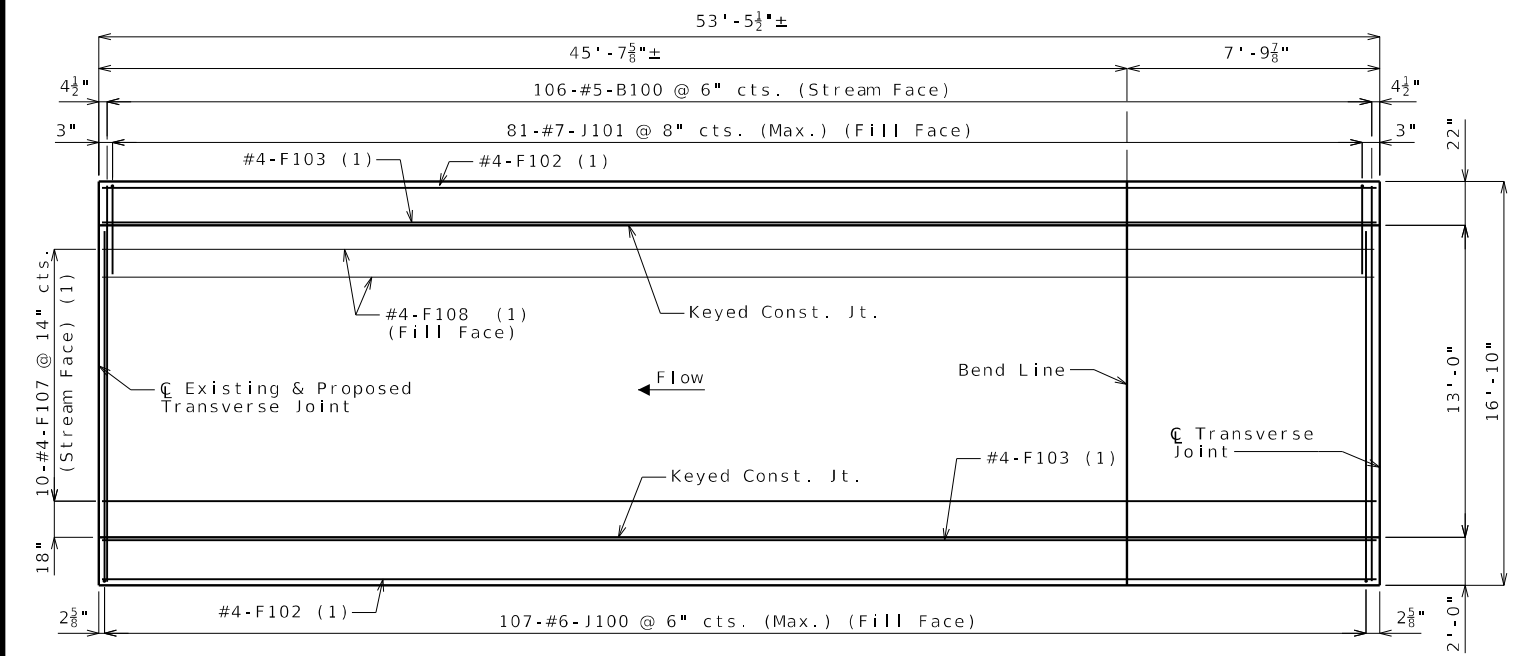
**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592



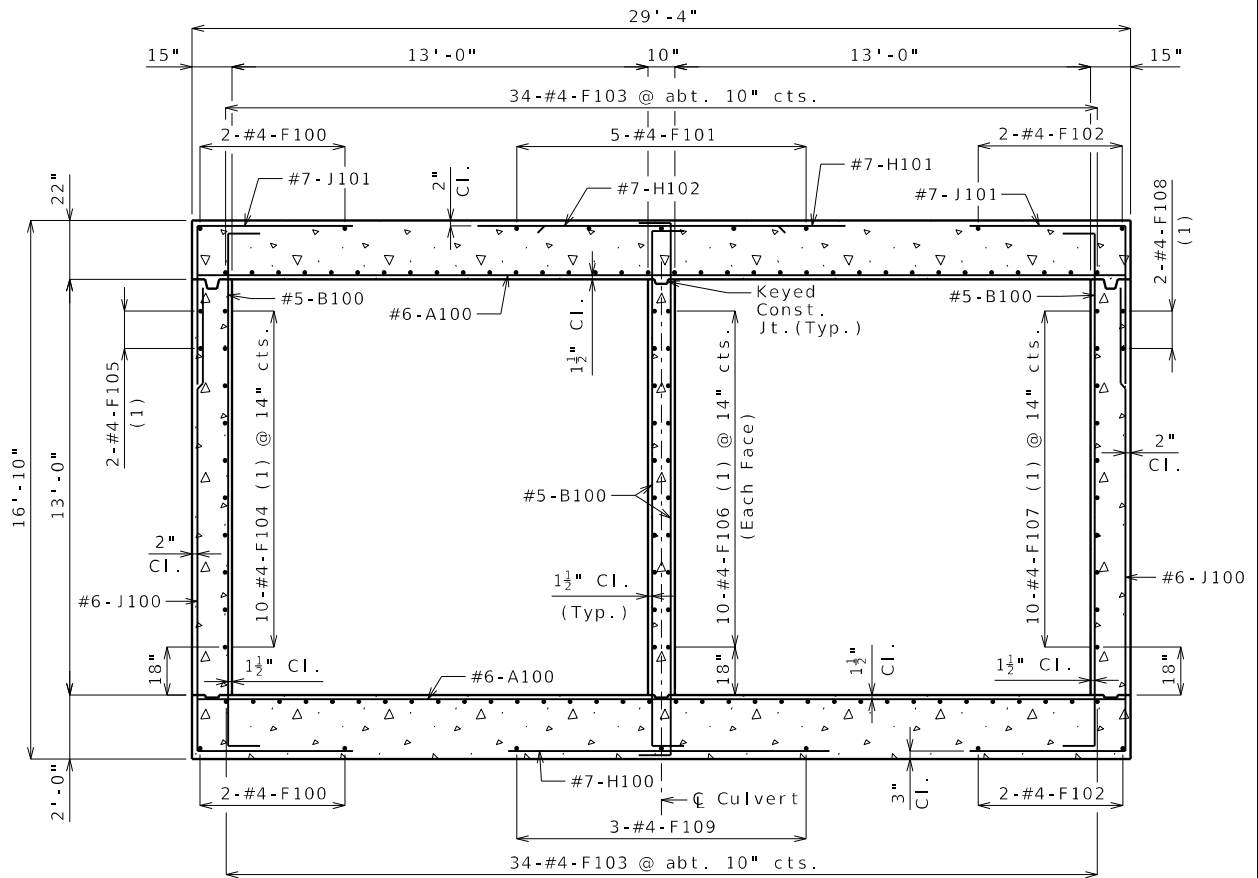
**DEVELOPED SECTION A-A**  
 Longitudinal dimensions are taken along outside face of wall.



**DEVELOPED SECTION B-B**  
 Longitudinal dimensions are taken along centerline of interior wall.



**DEVELOPED ELEVATION C-C**  
 Longitudinal dimensions are taken along outside face of wall.

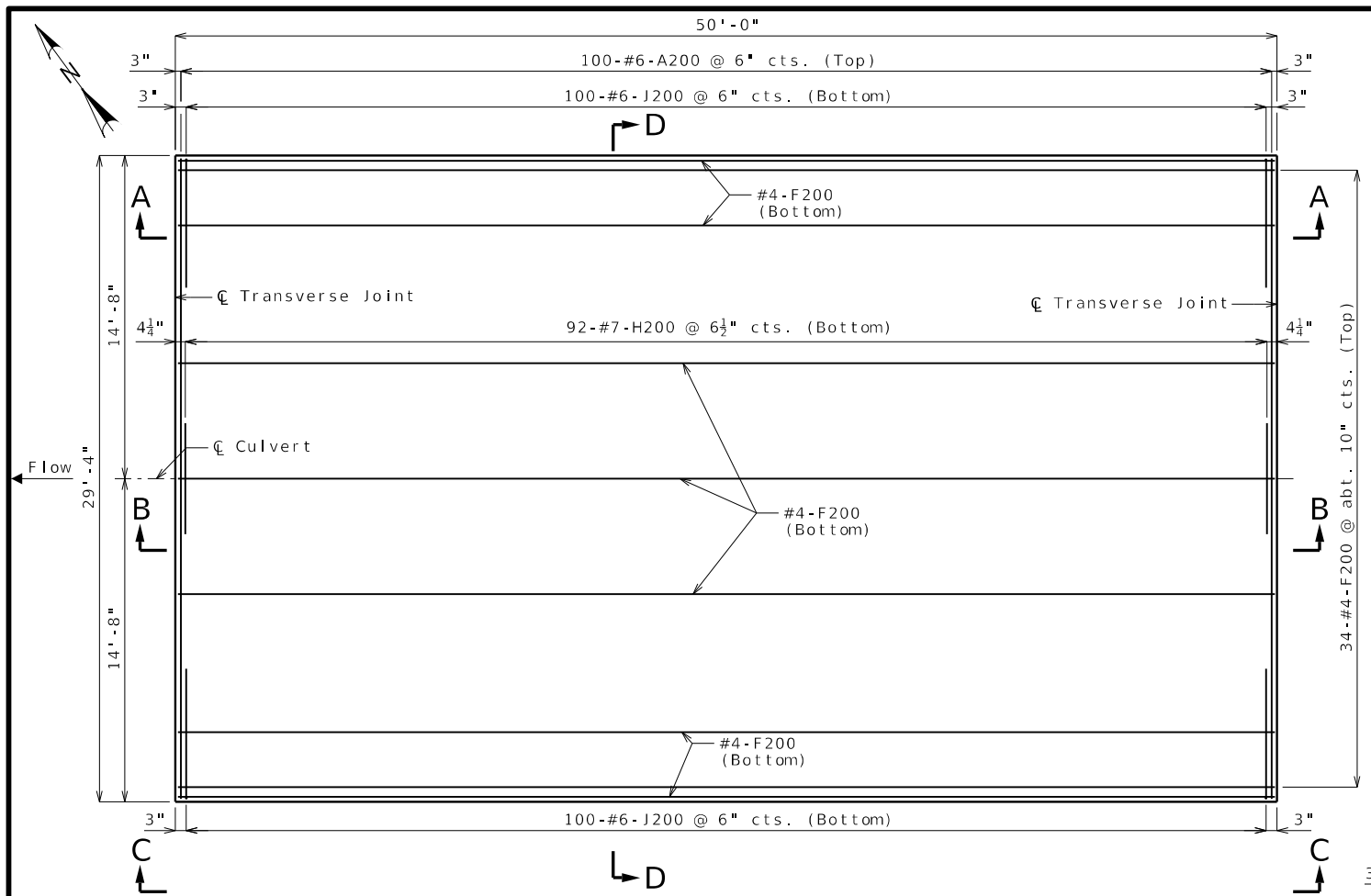


**SECTION D-D**  
 Notes:  
 Construction joint keys not shown for clarity.  
 For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.  
 Work this sheet with Sheet No. 4.  
 (1) Bend in field to conform to structure alignment.

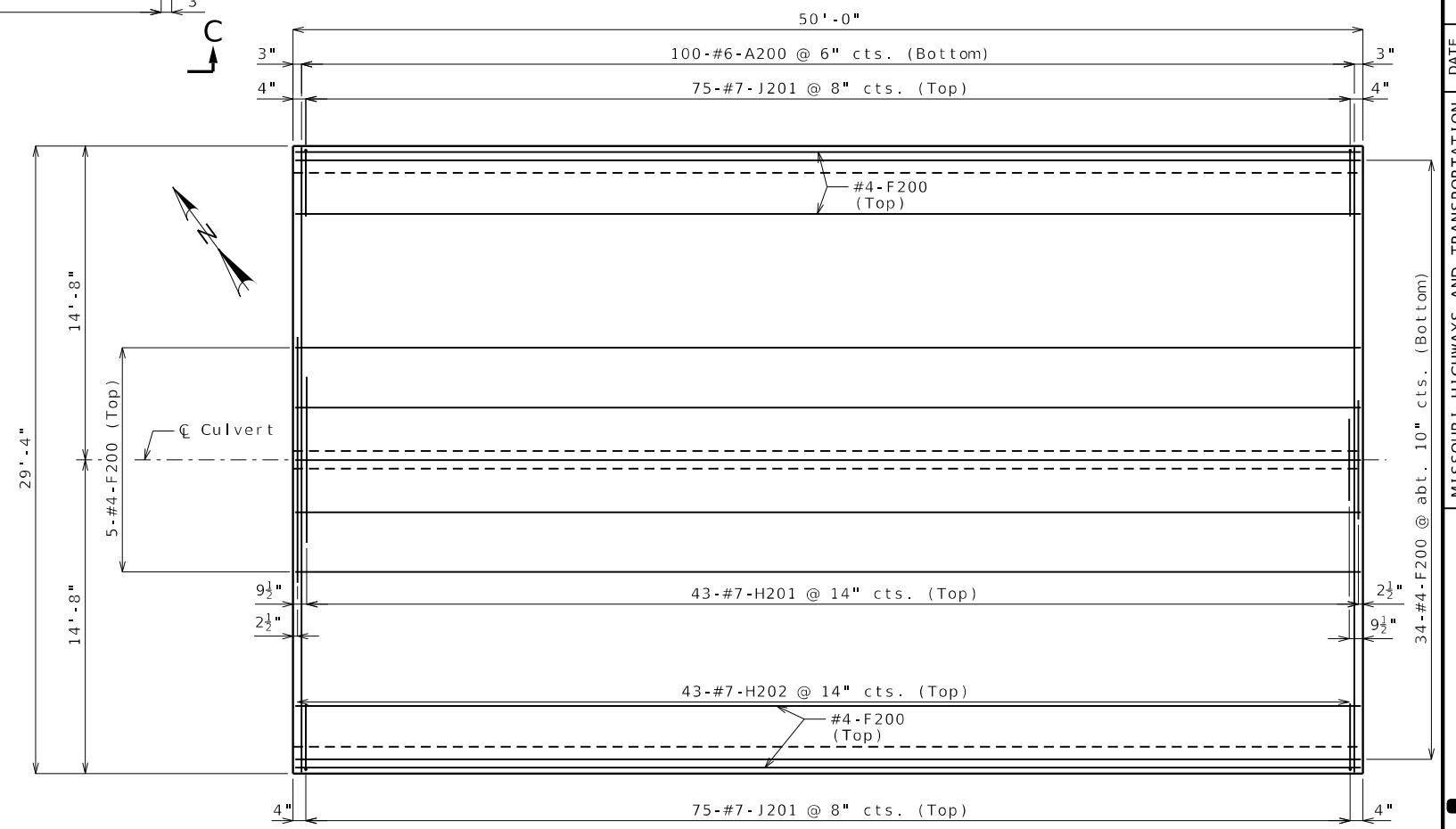
**DETAILS OF UNIT ①**

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 5 of 31



**PLAN OF BOTTOM SLAB**  
 B bars in walls not shown for clarity.  
 For placement, see Sheet 7.



**PLAN OF TOP SLAB**  
 B bars in walls not shown for clarity.  
 For placement, see Sheet 7.

**DETAILS OF UNIT ②**

Notes:  
 For Section A-A, B-B, C-C and D-D see Sheet No. 7.  
 For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.  
 Work this sheet with Sheet No. 7.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 6 of 31

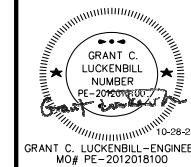
Digitally signed by Grant Luckenbill  
 Date: 2025.10.28 21:57:50-0500

DATE PREPARED  
 10/28/2025  
 ROUTE STATE  
 CC MO  
 DISTRICT SHEET NO.  
 BR 6  
 COUNTY  
 CHRISTIAN  
 JOB NO.  
 J8S0736E  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.  
 A38612

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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 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
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DATE PREPARED  
**10/28/2025**

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
BR	7

COUNTY  
**CHRISTIAN**

JOB NO.  
**J8S0736E**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
**A38612**

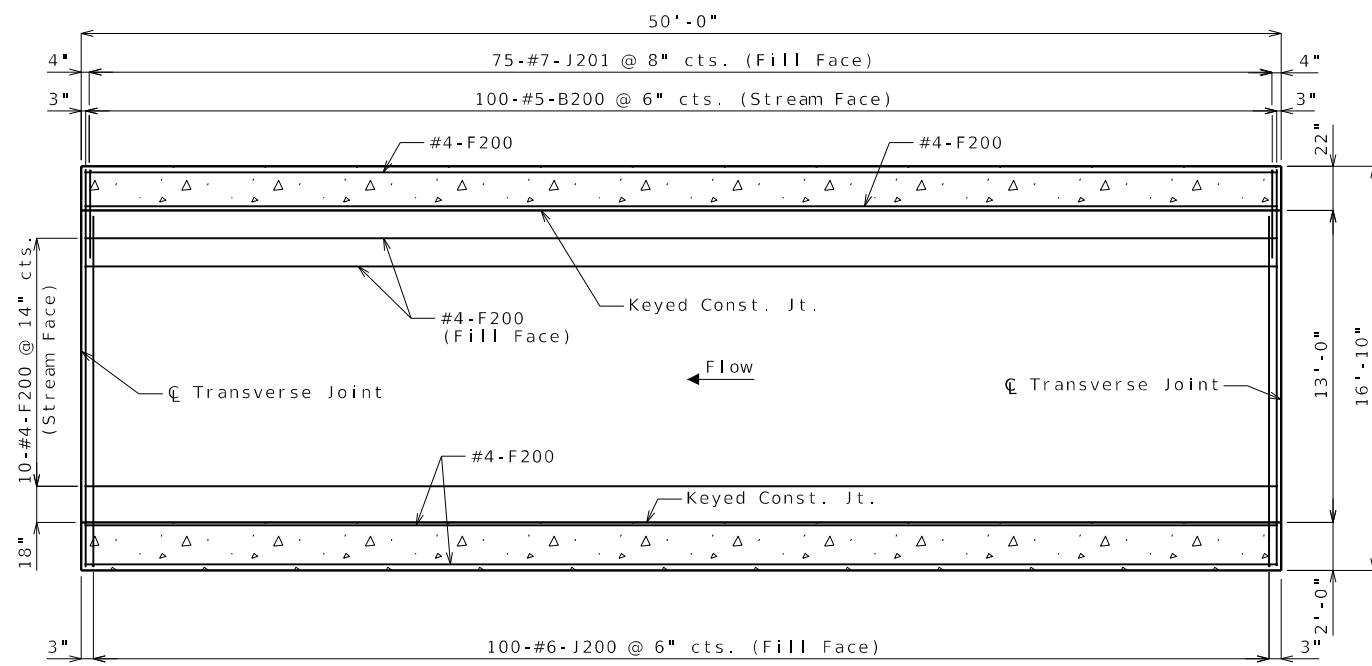
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

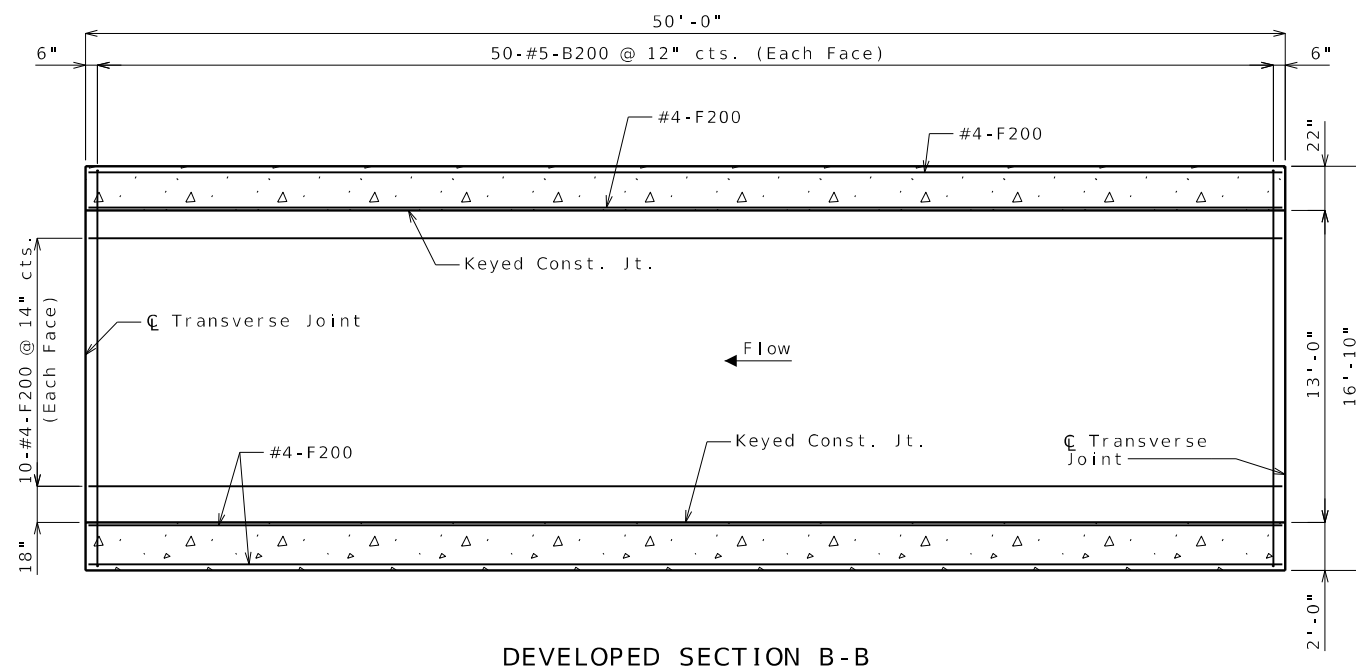
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

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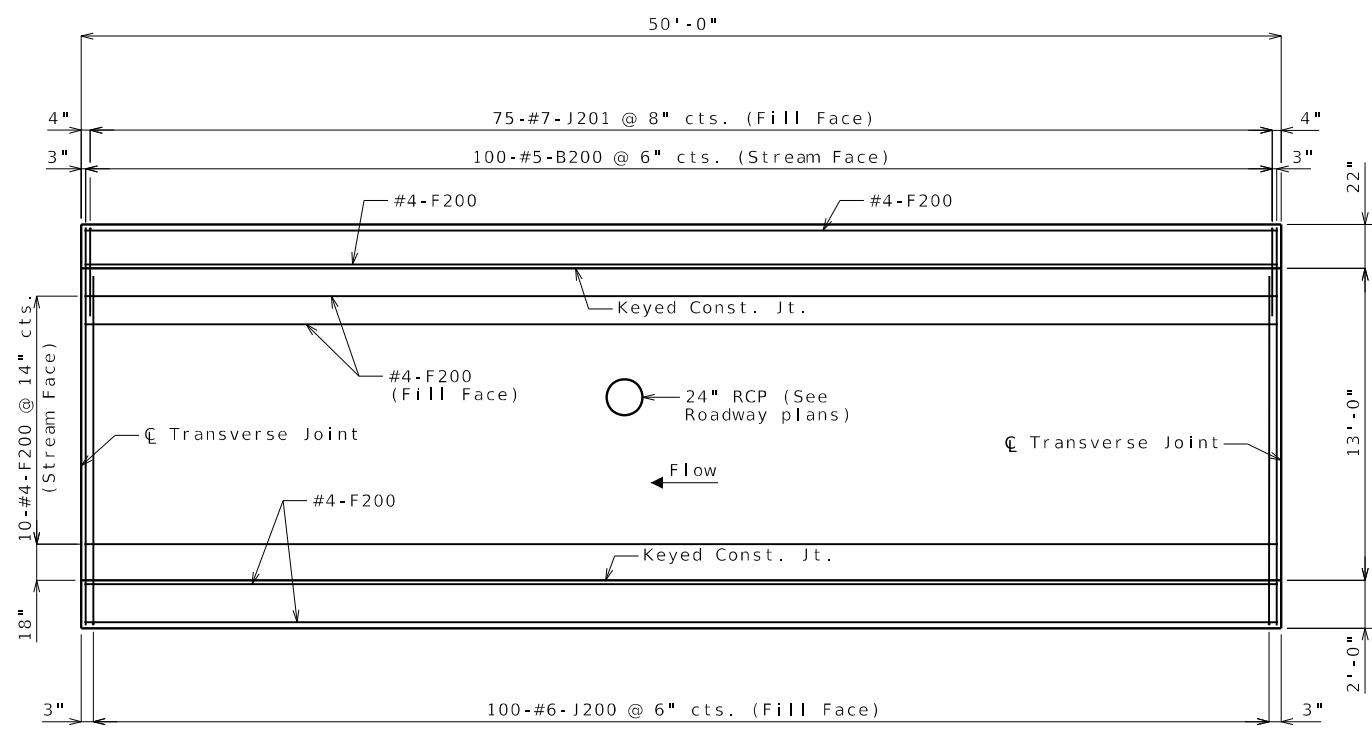
1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177  
CERTIFICATE OF AUTHORITY NO. 001592



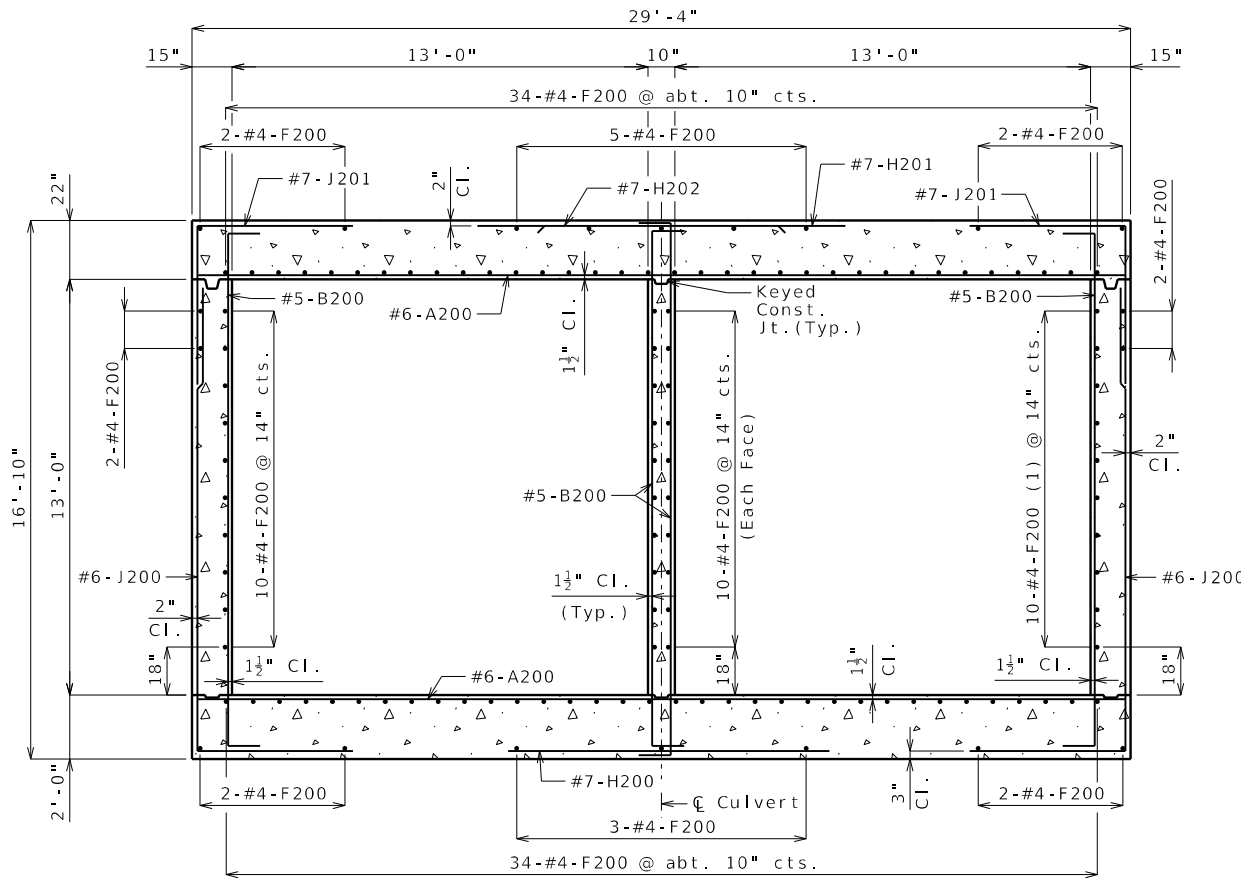
DEVELOPED SECTION A-A



DEVELOPED SECTION B-B



DEVELOPED ELEVATION C-C



SECTION D-D

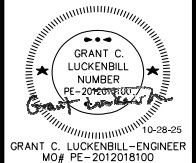
Notes:

Construction Joint Keys not shown for clarity.

For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.

Work this sheet with Sheet No. 6.

**DETAILS OF UNIT 2**



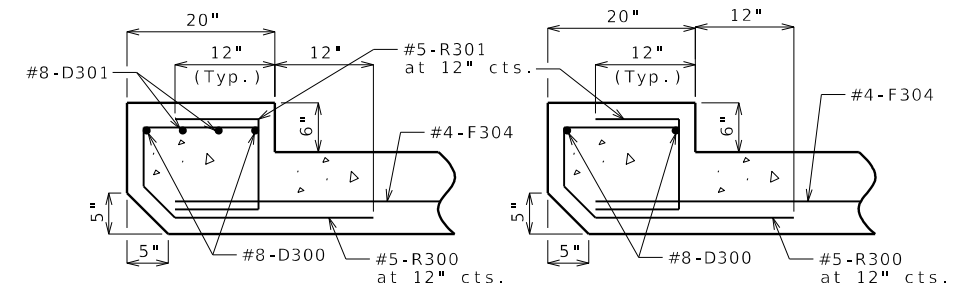
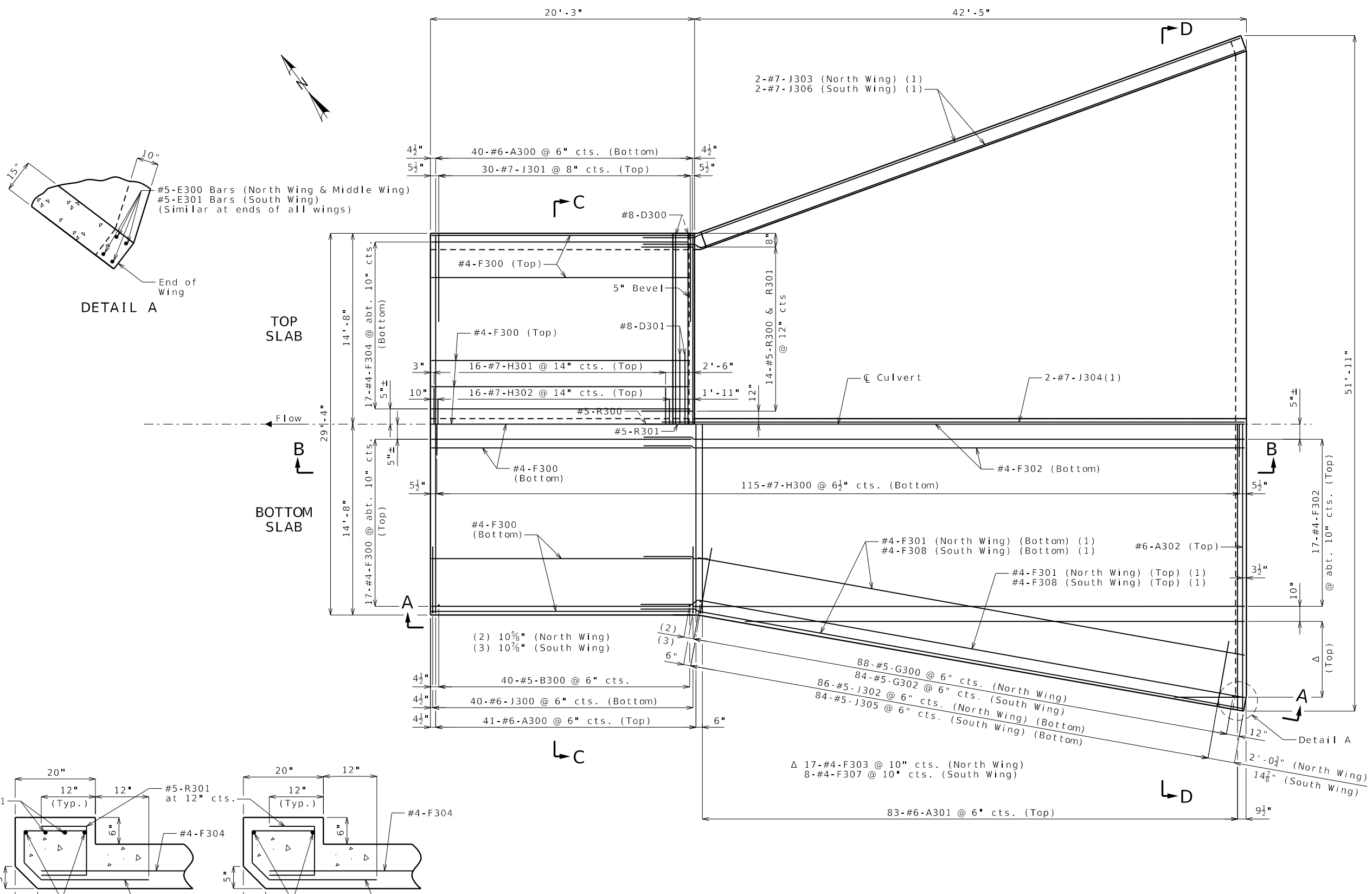
DATE PREPARED 10/28/2025	
ROUTE CC	STATE MO
DISTRICT BR	SHEET NO. 8
COUNTY CHRISTIAN	
JOB NO. J850736E	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A38612	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

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

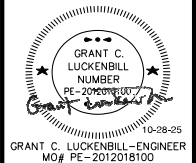
**olsson**  
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NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177  
CERTIFICATE OF AUTHORITY NO. 001592



**HALF PLANS SHOWING REINFORCING**  
HALF PLANS ARE SYMMETRICAL ABOUT CULVERT EXCEPT AS SHOWN.  
B & G bars in interior wall not shown for clarity.

- Notes:
- Lap #4-F bars a minimum of 2'-1" at splices.
  - Construction Joint Keys not shown for clarity.
  - For Section A-A, B-B, C-C and D-D see Sheet No. 9 and 10.
  - For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.
  - Work this sheet with Sheets No. 9 and 10.
  - (1) Bend in field.

**DETAILS OF UNIT ③**



GRANT C. LUCKENBILL-ENGINEER  
MO# PE-2012018100

DATE PREPARED  
10/28/2025

ROUTE STATE  
CC MO

DISTRICT SHEET NO.  
BR 9

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DESCRIPTION

DATE

REVISION

DESCRIPTION

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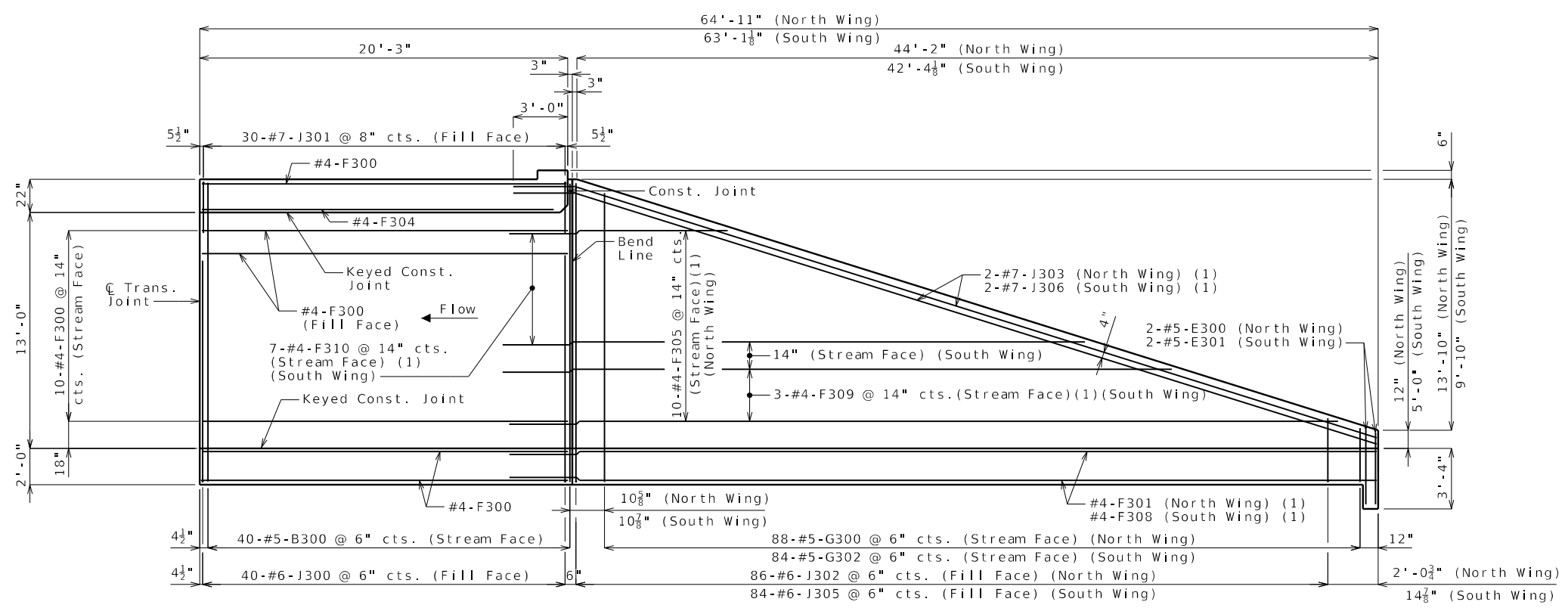
DESCRIPTION

DATE

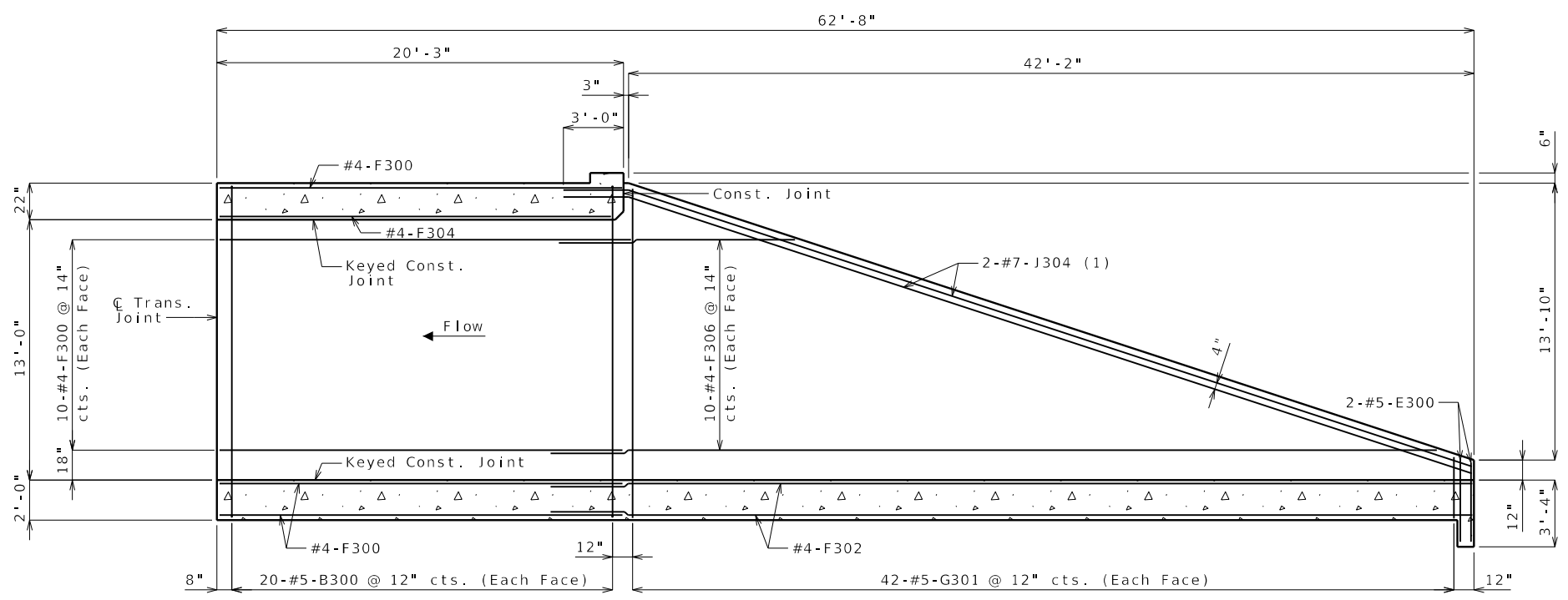
REVISION

DESCRIPTION

DATE



**DEVELOPED ELEVATION A-A**  
Longitudinal dimensions are taken along outside face of wall.



**DEVELOPED SECTION B-B**

- Notes:
- Lap #4-F bars a minimum of 2'-1" at splices.
  - Construction Joint Keys not shown for clarity.
  - For location of Section A-A and B-B see Sheet No. 8.
  - For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.
  - Work this sheet with Sheets No. 8 and 10.
  - (1) Bend in field.

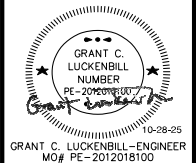
**DETAILS OF UNIT ③**

Detailed April 2025  
Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 9 of 31



**olsson**  
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GRANT C. LUCKENBILL-ENGINEER  
MO# FE-2012018100

DATE PREPARED  
10/28/2025

ROUTE STATE  
CC MO

DISTRICT SHEET NO.  
BR 10

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION  
COMMISSION

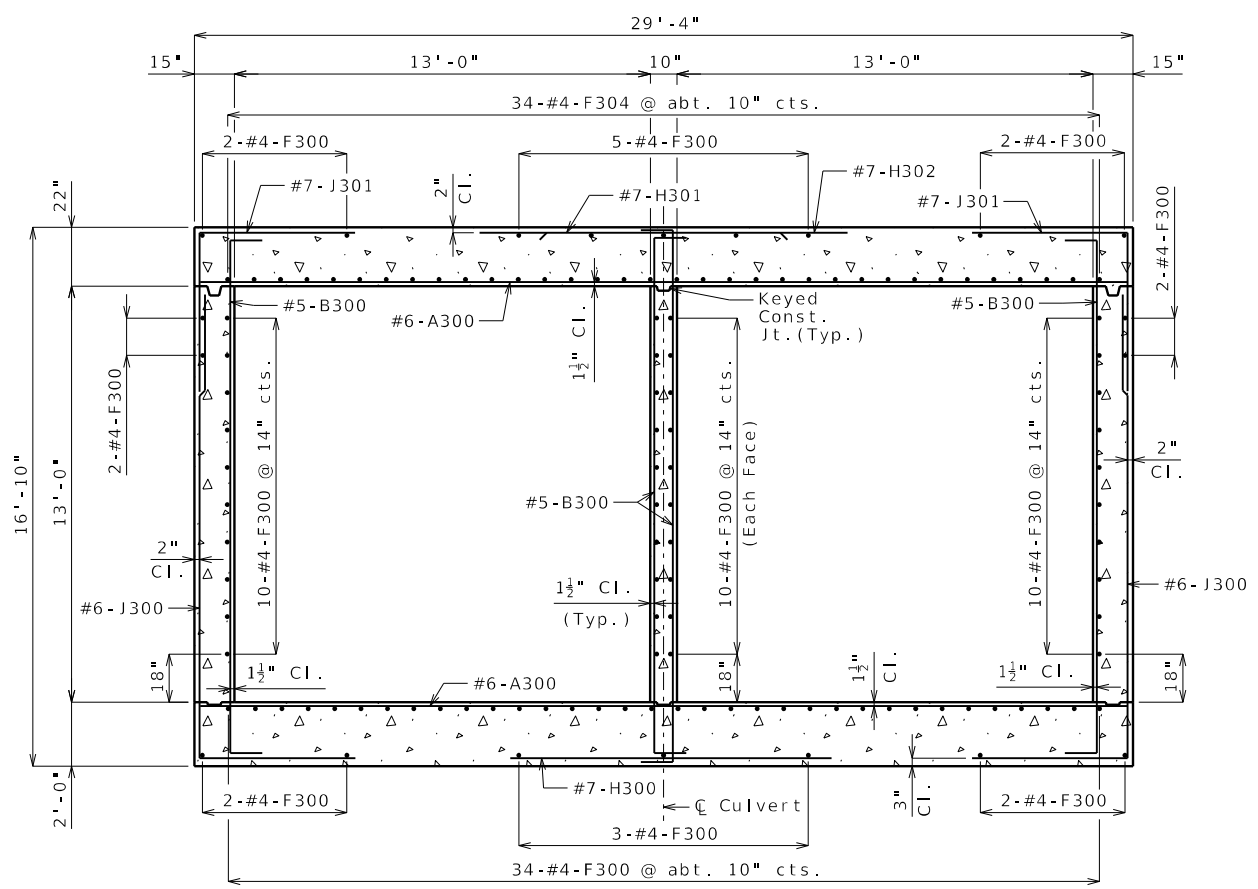
105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

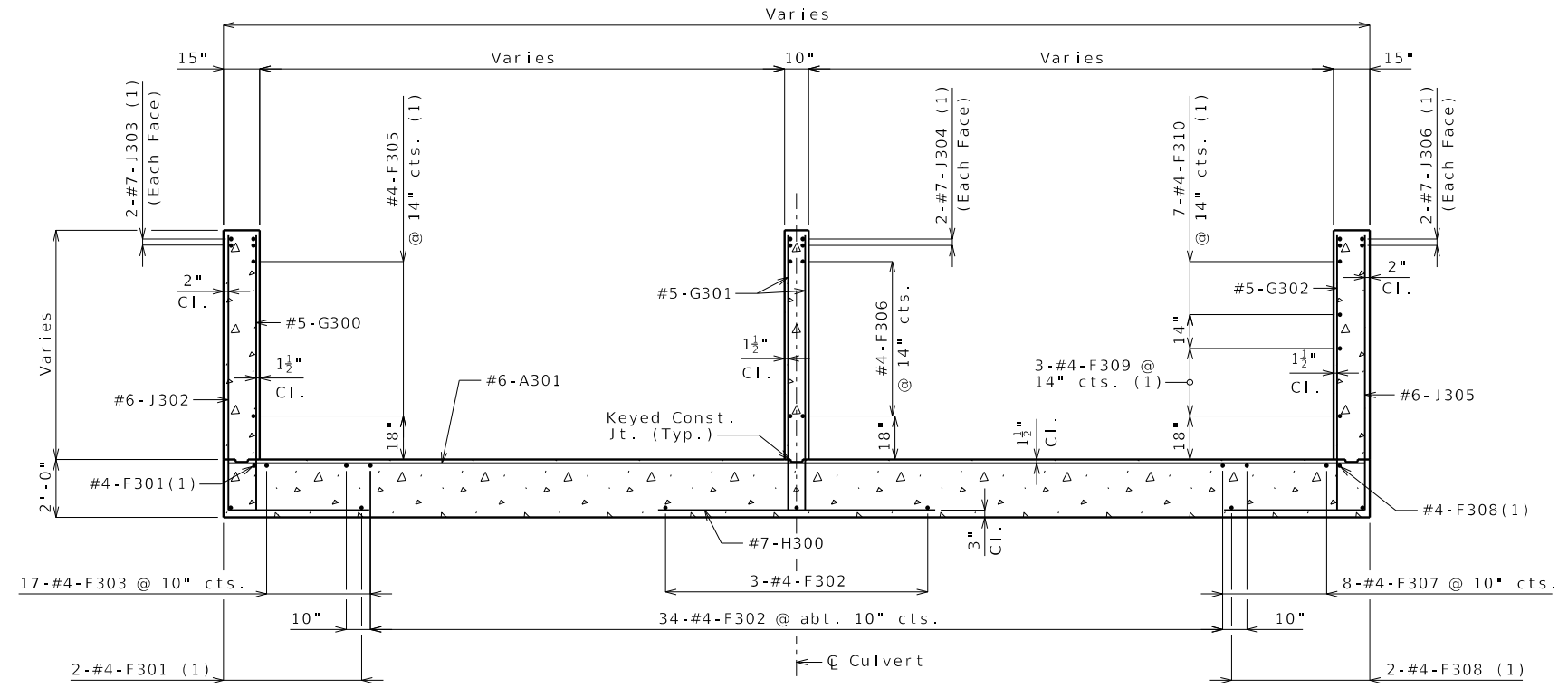
1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177

CERTIFICATE OF AUTHORITY NO. 001592

REV.



SECTION C-C



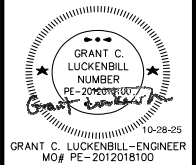
SECTION D-D

DETAILS OF UNIT ③

Notes:  
For location of Section C-C and D-D see Sheet No. 8.  
For detail of Keyed Construction Joints and detail of Transverse Joints, see Sheet No. 2.  
Work this sheet with Sheets No. 8 and 9.  
(1) Bend in field.

Note: This drawing is not to scale. Follow dimensions. Sheet No. 10 of 31

Detailed April 2025  
Checked June 2025



GRANT C. LUCKENBILL-ENGINEER  
MO# FE-2012018100

DATE PREPARED  
10/28/2025

ROUTE STATE  
CC MO

DISTRICT SHEET NO.  
BR 11

COUNTY  
CHRISTIAN

JOB NO.  
J8S0736E

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
A38612

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

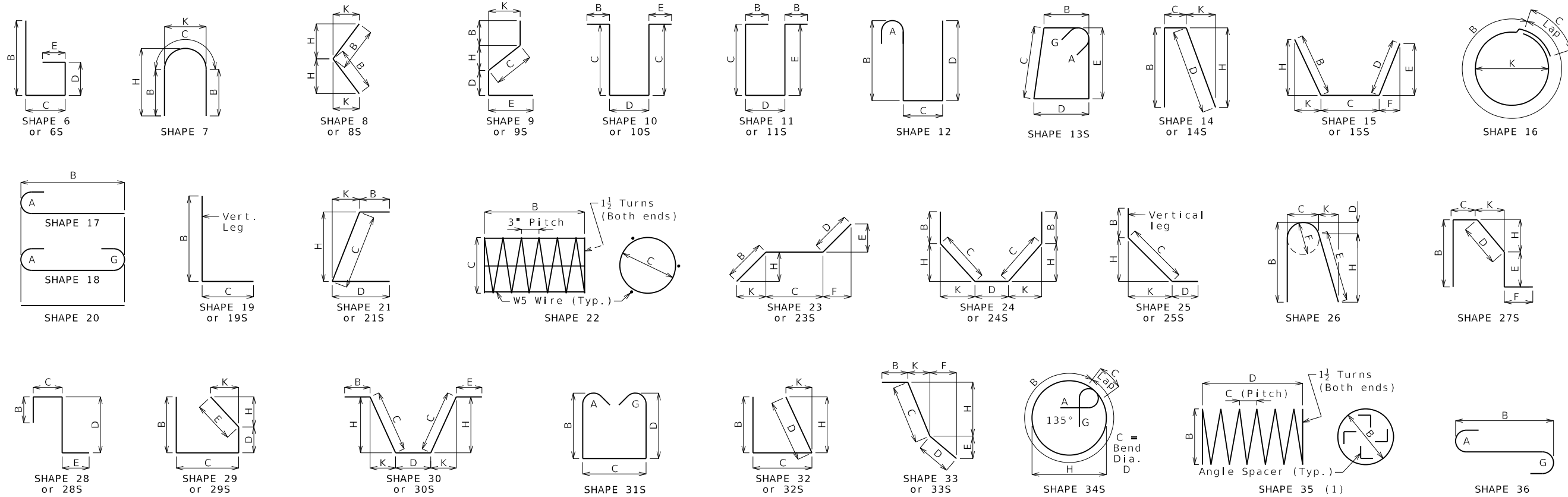
105 WEST CAPITOL JEFFERSON CITY, MO 65102

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1301 BURLINGTON STREET, STE. 100 NORTH KANSAS CITY, MO 64116

PHONE: 816.361.1177

CERTIFICATE OF AUTHORITY NO. 001592

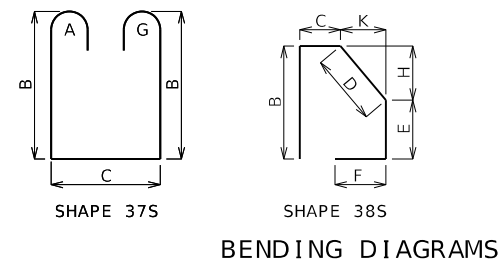


Finished Bend Diameters D and Hook Dimensions						
Standard Pin Bend Shapes						
Size	Case	D	A or G		J	
			90°	180°	180°	180°
#4	1	3"	8"	6"	4"	
#5	1	3 $\frac{3}{4}$ "	10"	7"	5"	
#6	1	4 $\frac{1}{2}$ "	12"	8 $\frac{1}{4}$ "	6"	
#7	2	5 $\frac{1}{4}$ "	14"	9 $\frac{3}{4}$ "	7"	
	3	7"	15"	11 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "	
#8	2	6"	16"	11"	8"	
	3	8"	17"	13 $\frac{1}{4}$ "	10"	
#9	1	9 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	15 $\frac{1}{2}$ "	11 $\frac{3}{4}$ "	
#10	1	10 $\frac{3}{4}$ "	22"	17 $\frac{1}{2}$ "	13 $\frac{1}{4}$ "	
#11	1	12"	24 $\frac{1}{2}$ "	19 $\frac{1}{2}$ "	14 $\frac{7}{8}$ "	
#14	1	18 $\frac{1}{4}$ "	31 $\frac{1}{4}$ "	27 $\frac{1}{2}$ "	21 $\frac{5}{8}$ "	
#18	1	24"	41 $\frac{1}{2}$ "	36 $\frac{1}{4}$ "	28 $\frac{1}{2}$ "	

Stirrup Pin Bend Shapes (S)							
Size	Case	D	A or G		H		
			90°	135°	180°	135°	180°
#4	2	2"	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	2 $\frac{5}{8}$ "	3"
	3	3"	5"	5 $\frac{1}{4}$ "	6"	3"	4"
#5	2	2 $\frac{1}{2}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	3 $\frac{3}{8}$ "	3 $\frac{3}{4}$ "
	3	3 $\frac{3}{4}$ "	6 $\frac{1}{4}$ "	6 $\frac{1}{4}$ "	7"	3 $\frac{5}{8}$ "	5"
#6	1	4 $\frac{1}{2}$ "	12"	7 $\frac{3}{4}$ "	8 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "	6"

Applicable for all grades of steel.  
Case 1 applies to all reinforcement. Case 2 applies to all reinforcement except for galvanized bars. Case 3 applies to galvanized bars only.



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

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

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

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

Reinforcing Steel Totals (Pounds)								
Size	Substructure		Superstructure			Entire Bridge		Slip Form
	Plain	Epoxy	Plain	Epoxy	Barrier	Plain	Epoxy	
W5	0	0	0	0	0	0	0	0
4	12,578	0	0	0	0	12,578	0	0
5	16,798	0	0	0	0	16,798	0	0
6	45,883	0	0	0	0	45,883	0	0
7	18,923	0	0	0	0	18,923	0	0
8	198	0	0	0	0	198	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
By Type	94,380	0	0	0	0	94,380	0	0

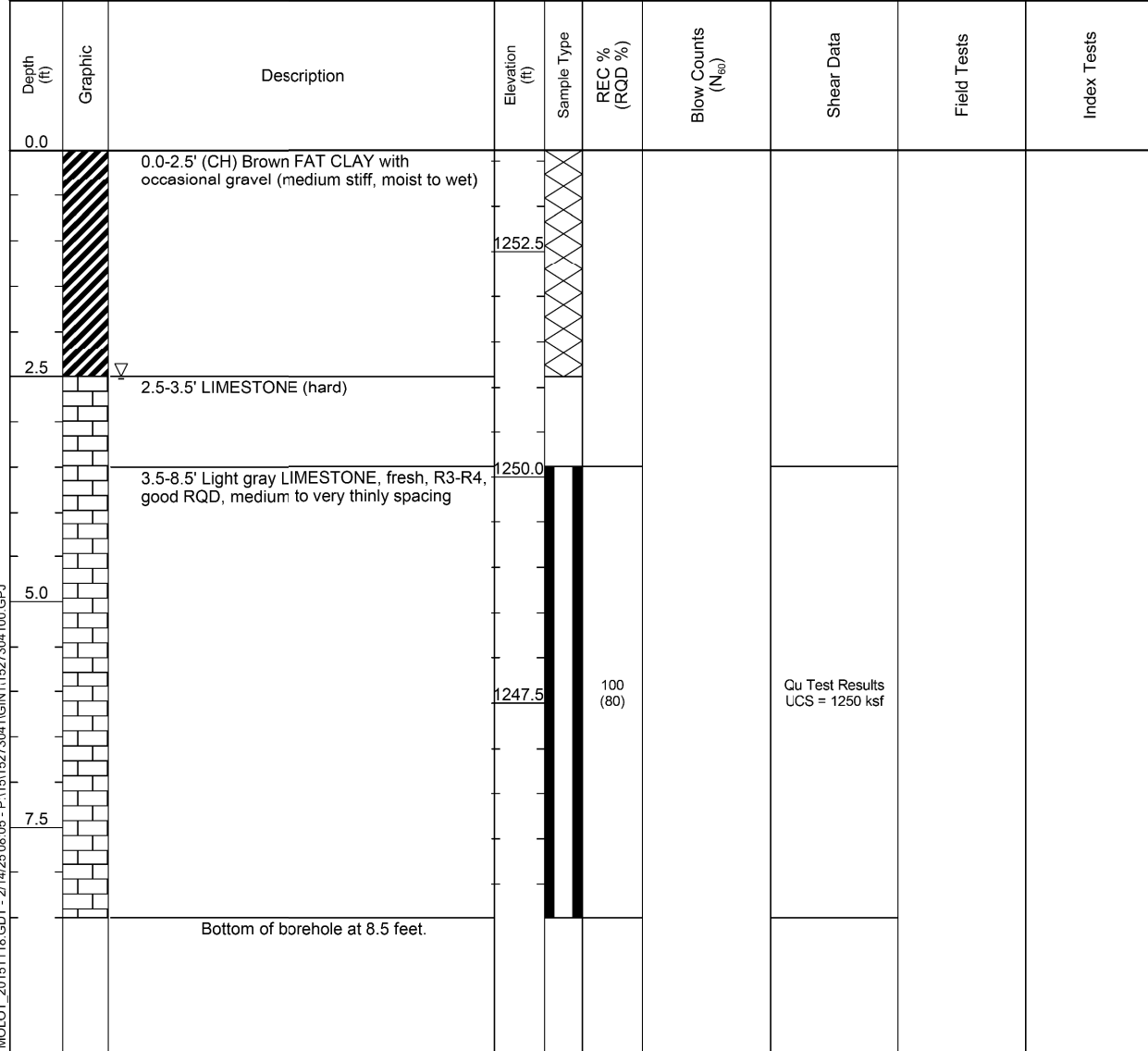
All superstructure reinforcing steel shall be epoxy coated unless otherwise specified.

BENDING DIAGRAMS AND REINFORCING STEEL TOTALS



**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-1**  
 Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: Skew: Location: Christian County  
 Bent: Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+01.37 Northing: 451044.9978 Date of Work: 01/24/25-01/24/25  
 Offset: 100.85' Rt. Easting: 1426910.4167 Depth to Water: 2.5  
 Elevation: 1253.6 Requested Northing: 451044.9978 Depth Hole Open: 8.5  
 Requested Station: 183+01.37 Requested Easting: 1426910.4167 Time Change: 0 hours  
 Requested Offset: 100.85' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler, NQ  
 Requested Elevation: 1253.6 Location Note:  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

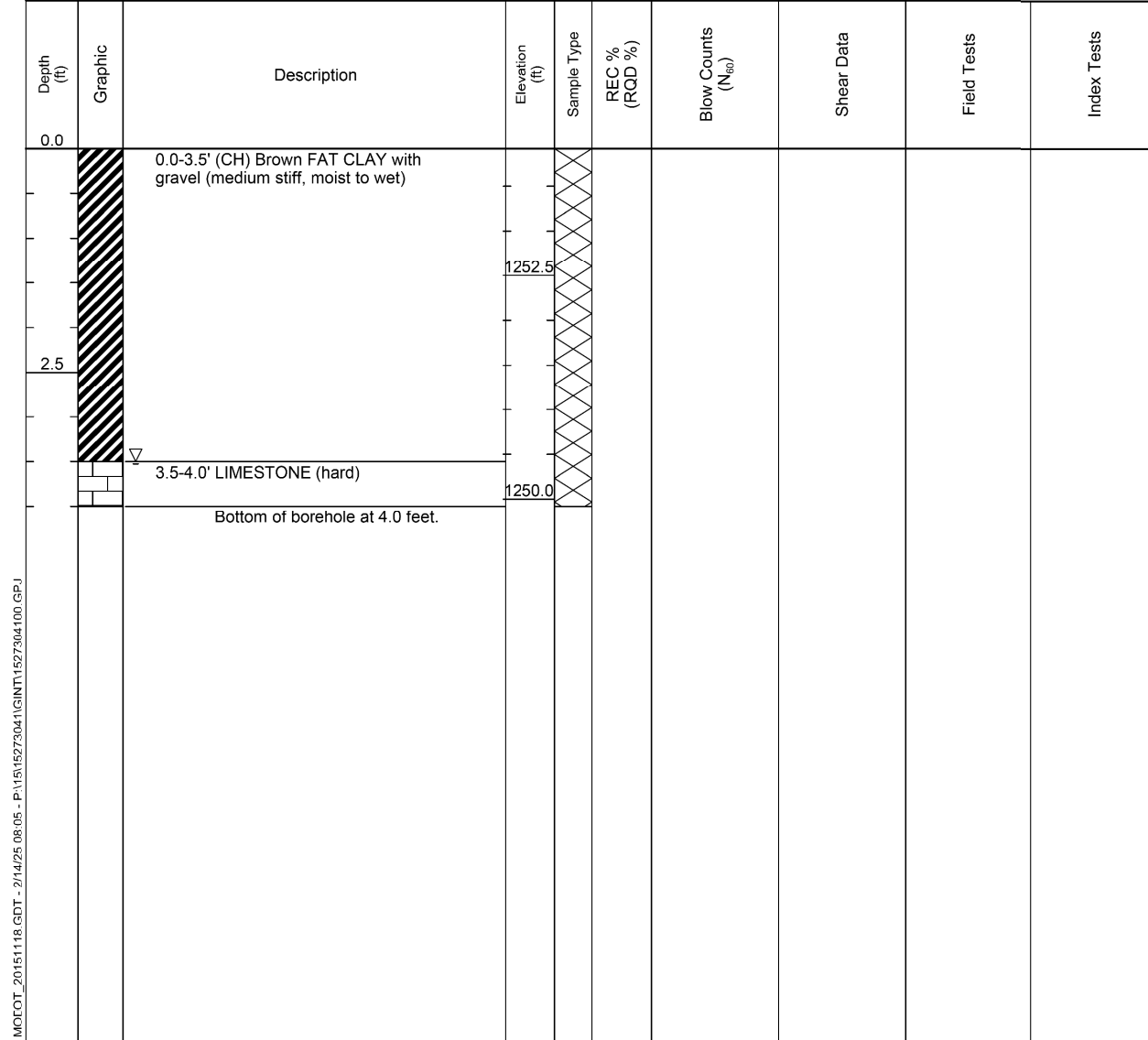


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor:  
 Coordinate 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.

**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-2**  
 Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: Skew: Location: Christian County  
 Bent: Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+09.35 Northing: 451038.4809 Date of Work: 01/23/25-01/23/25  
 Offset: 106.93' Rt. Easting: 1426918.0381 Depth to Water: 3.5  
 Elevation: 1253.9 Requested Northing: 451038.4809 Depth Hole Open: 4  
 Requested Station: 183+09.35 Requested Easting: 1426918.0381 Time Change: 0 hours  
 Requested Offset: 106.93' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1253.9 Location Note:  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor:  
 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.

Digitally signed by Grant Luckenbill  
 Date: 2025.10.31 12:02:44-0500  
 GRANT C. LUCKENBILL  
 NUMBER  
 PE-2012016100  
 10-31-25  
 GRANT C. LUCKENBILL-ENGINEER  
 MO# PE-2012016100  
 DATE PREPARED  
 10/30/2025  
 ROUTE STATE  
 CC MO  
 DISTRICT SHEET NO.  
 BR 13  
 COUNTY  
 CHRISTIAN  
 JOB NO.  
 J8S0736E  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO.  
 A38612

DATE	DESCRIPTION

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

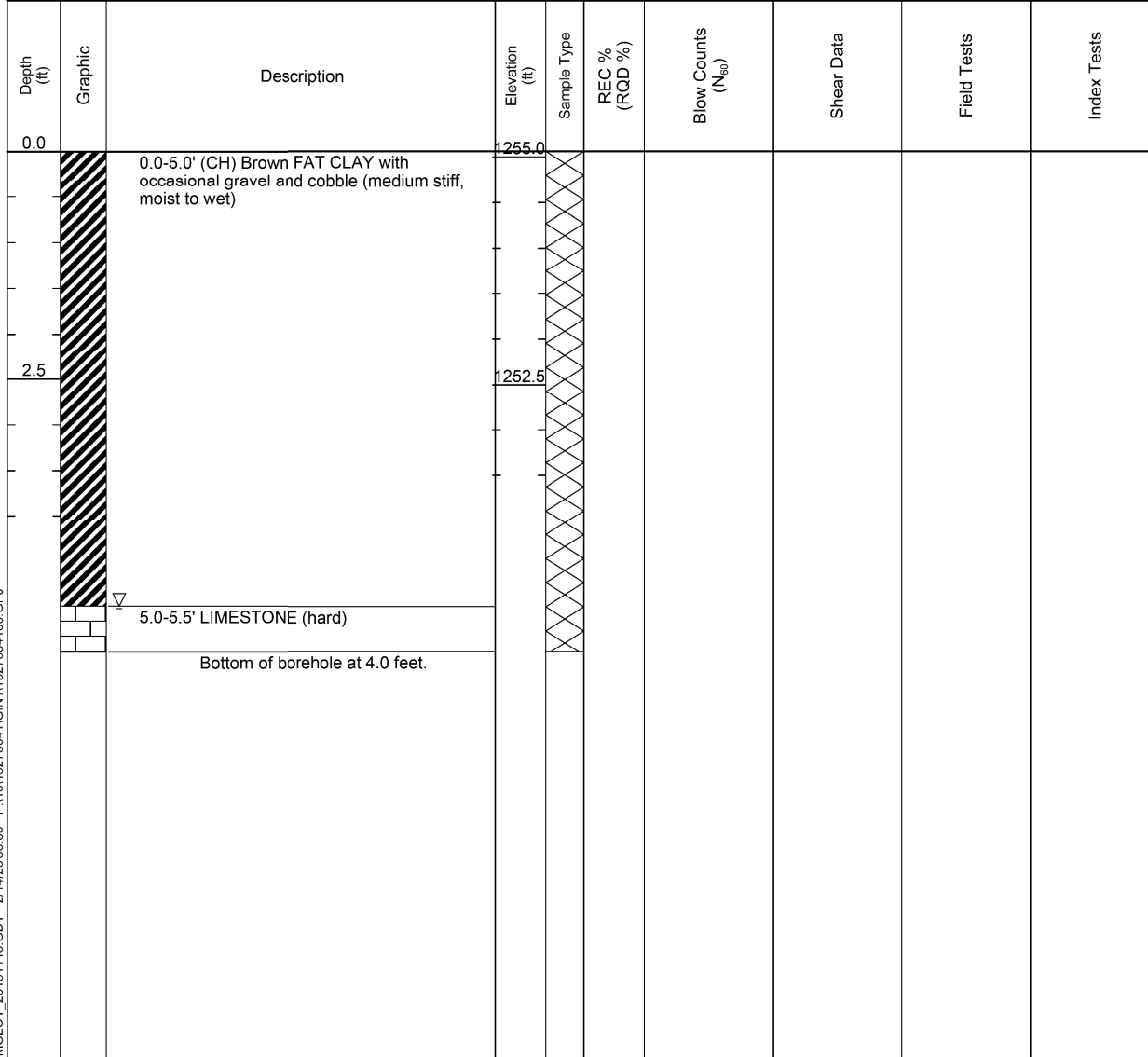
**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**Missouri Department of Transportation**  
**Construction and Materials**

**BORING NO. B-3**  
 Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+17.73  
 Offset: 112.38' Rt.  
 Elevation: 1255.1  
 Requested Station: 183+17.73  
 Requested Offset: 112.38' Rt.  
 Requested Elevation: 1255.1  
 Drill No.: 401073

County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II (GeoEngineers, Inc.)  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 451032.5657  
 Easting: 1426926.0995  
 Requested Northing: 451032.5657  
 Requested Easting: 1426926.0995  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 5.0  
 Depth Hole Open: 5.5  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: \_\_\_\_\_  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger



$N_{60} = (Em/60)Nm$   $N_{60}$  - 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 Central  
 Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83  
 Coordinate Units: U.S. Survey Feet

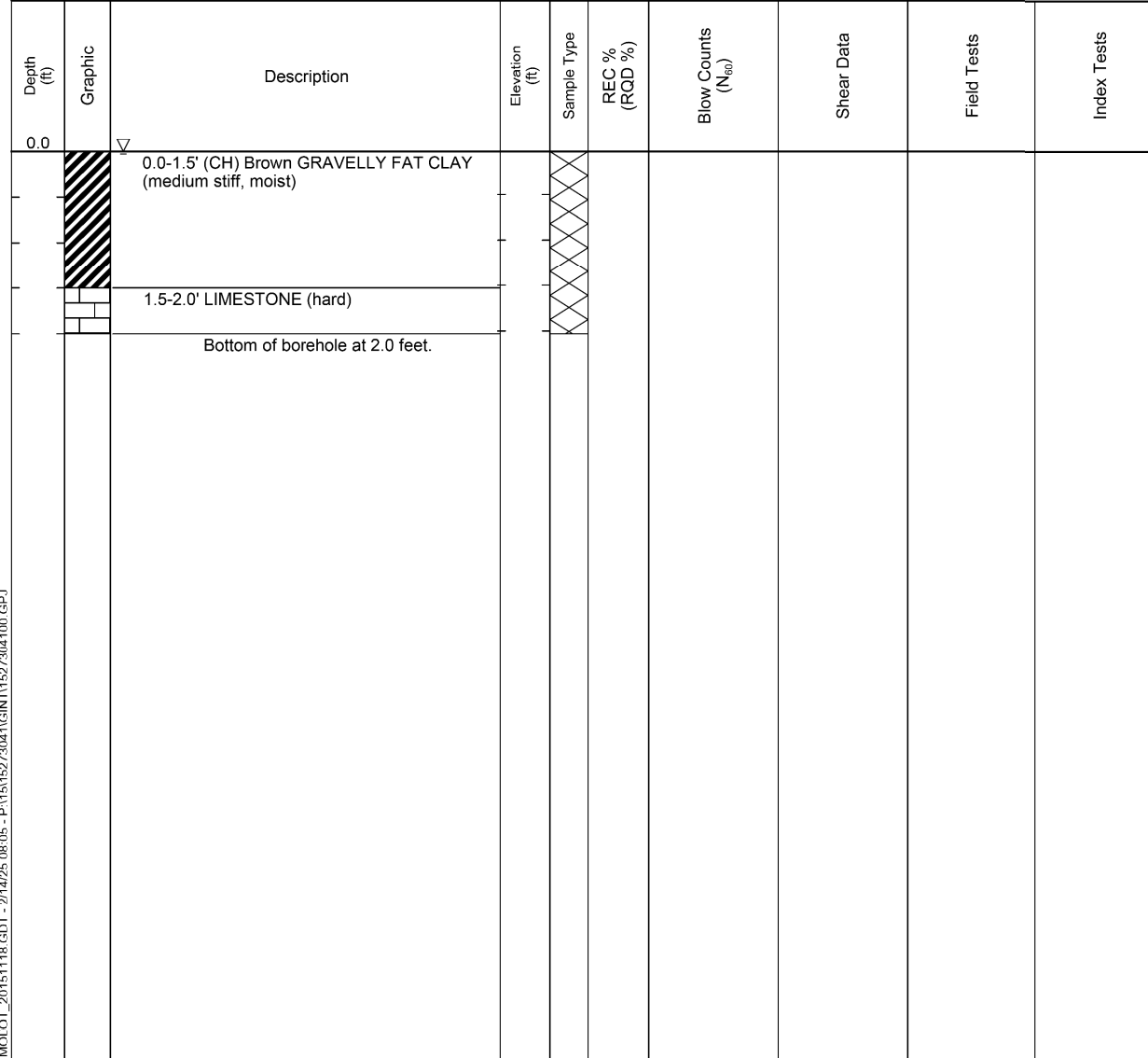
\* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

**Missouri Department of Transportation**  
**Construction and Materials**

**BORING NO. B-4**  
 Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+25.27  
 Offset: 100.79' Rt.  
 Elevation: 1252.5  
 Requested Station: 183+25.27  
 Requested Offset: 100.79' Rt.  
 Requested Elevation: 1252.5  
 Drill No.: 401073

County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II (GeoEngineers, Inc.)  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 451043.7189  
 Easting: 1426934.282  
 Requested Northing: 451043.7189  
 Requested Easting: 1426934.282  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 0.0  
 Depth Hole Open: 2  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: Center of drainage channel  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger



$N_{60} = (Em/60)Nm$   $N_{60}$  - 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 Central  
 Coordinate Proj. Factor: \_\_\_\_\_  
 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.

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Note: This drawing is not to scale. Follow dimensions. Sheet No. 14 of 31

Detailed April 2025  
Checked June 2025

Digitally signed by Grant Luckenbill  
Date: 2025.10.31 12:02:44-0500

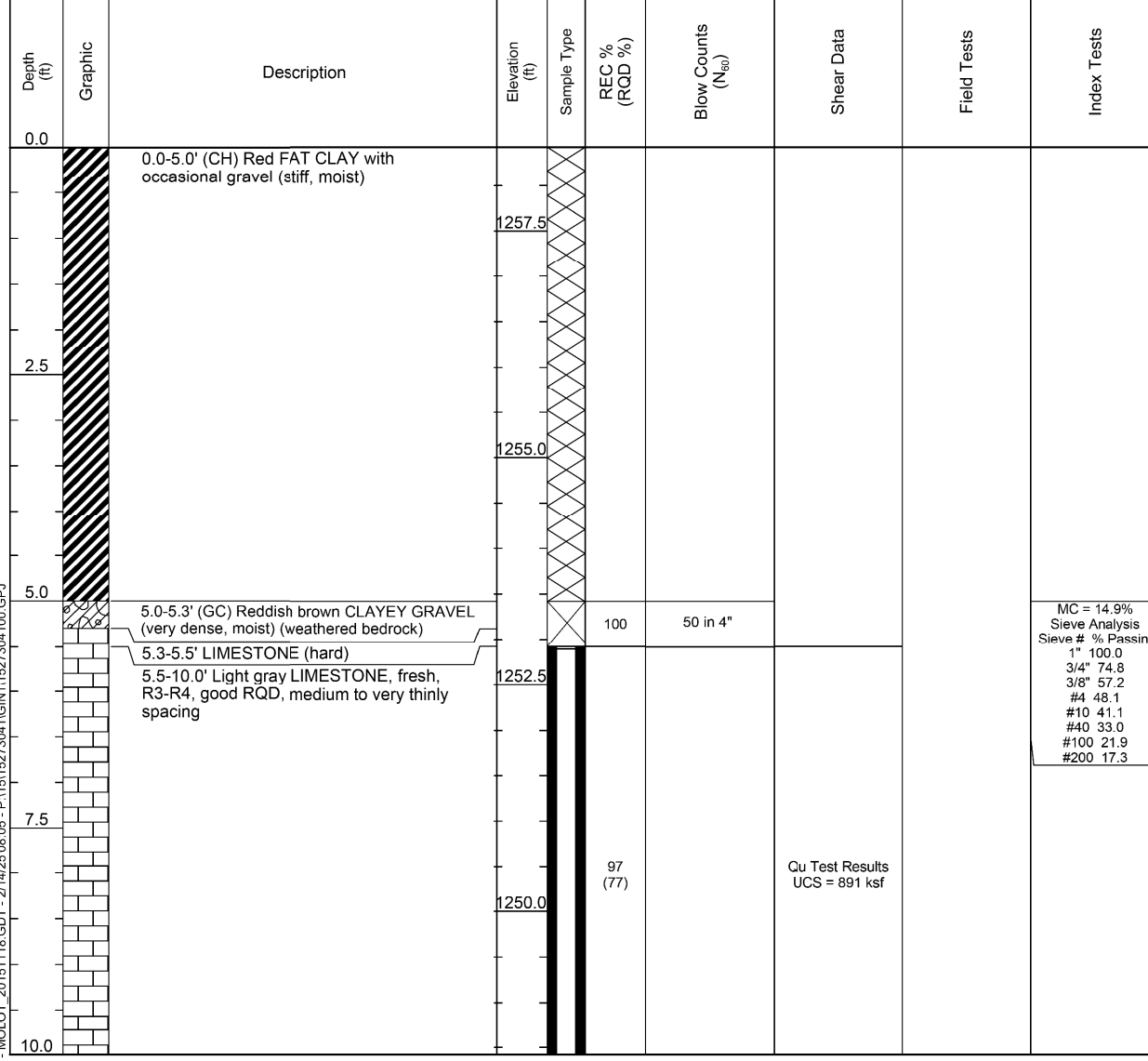
DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 14  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

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

**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**Missouri Department of Transportation Construction and Materials** **BORING NO. B-5**  
Page 1 of 2

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+32.82 Northing: 451054.8716 Date of Work: 01/24/25-01/24/25  
 Offset: 89.20' Rt. Easting: 146942.4654 Depth to Water: \_\_\_\_\_  
 Elevation: 1258.4 Requested Northing: 451054.8716 Depth Hole Open: 10.5  
 Requested Station: 183+32.82 Requested Easting: 146942.4654 Time Change: 0 hours  
 Requested Offset: 89.20' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
 Requested Elevation: 1258.4 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

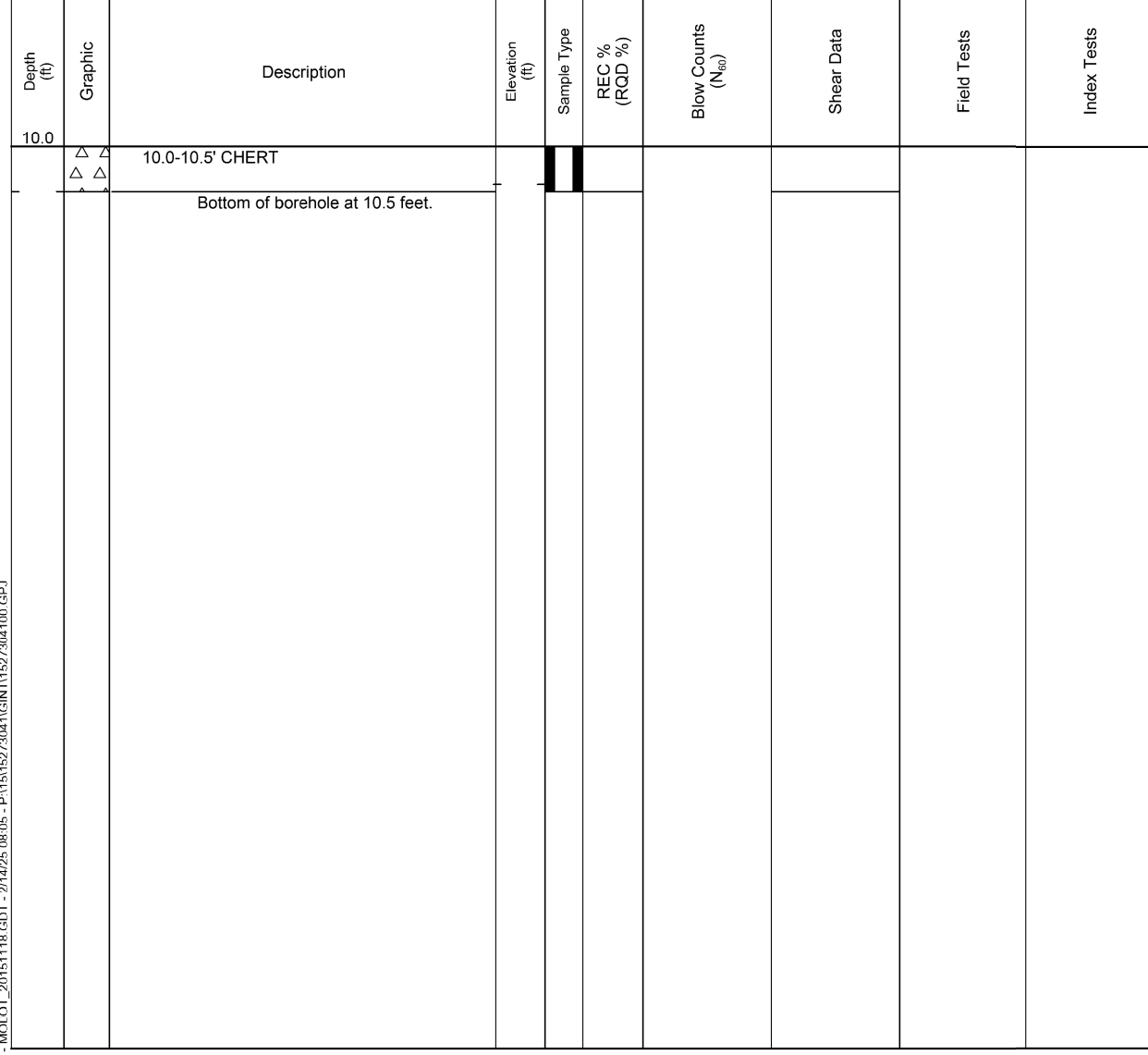


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.

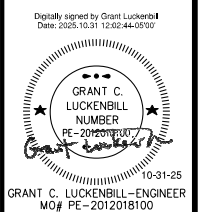
**Missouri Department of Transportation Construction and Materials** **BORING NO. B-5**  
Page 2 of 2

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+32.82 Northing: 451054.8716 Date of Work: 01/24/25-01/24/25  
 Offset: 89.20' Rt. Easting: 146942.4654 Depth to Water: \_\_\_\_\_  
 Elevation: 1258.4 Requested Northing: 451054.8716 Depth Hole Open: 10.5  
 Requested Station: 183+32.82 Requested Easting: 146942.4654 Time Change: 0 hours  
 Requested Offset: 89.20' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
 Requested Elevation: 1258.4 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 15  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 15 of 31

Missouri Department of Transportation  
Construction and Materials

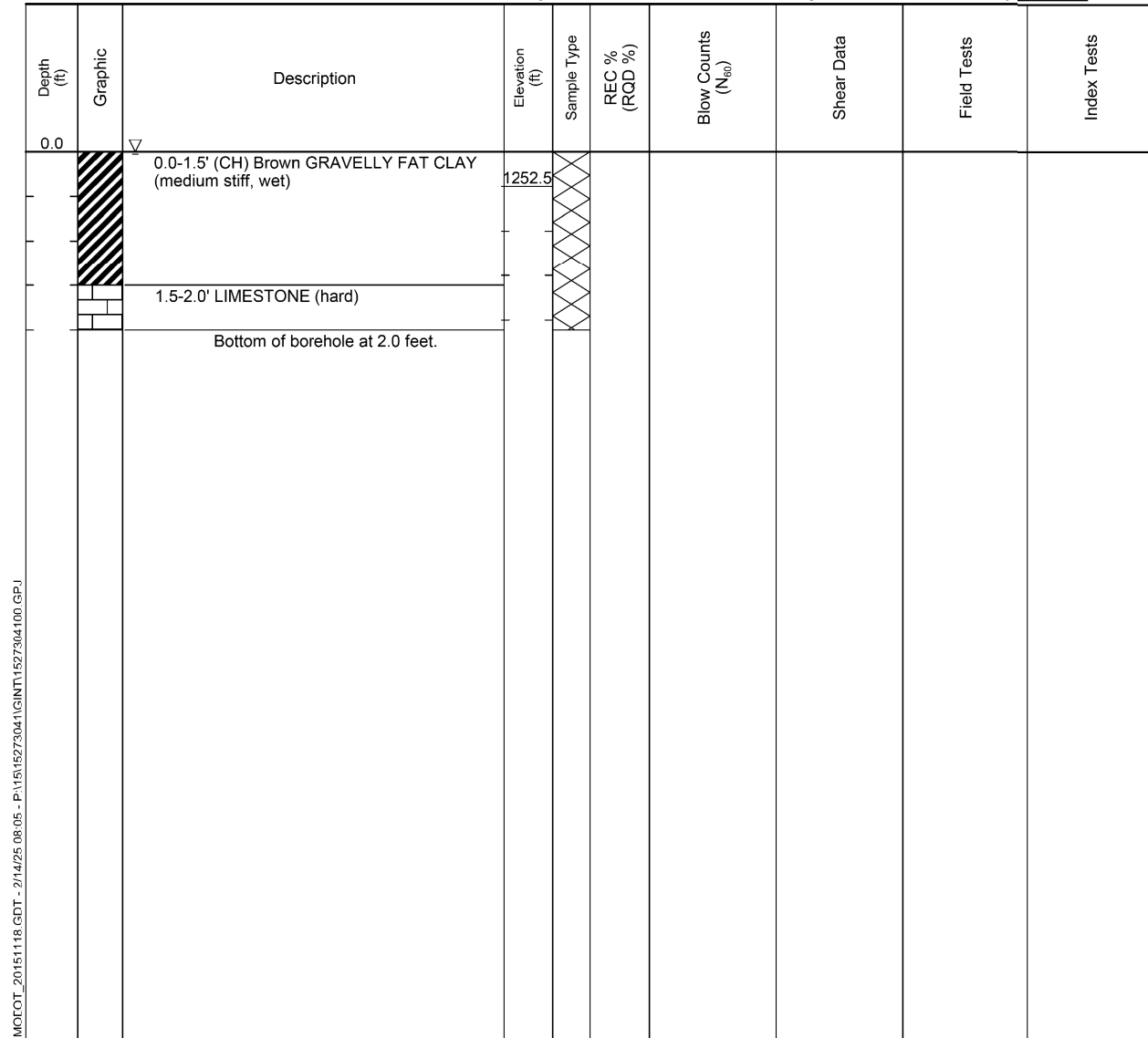
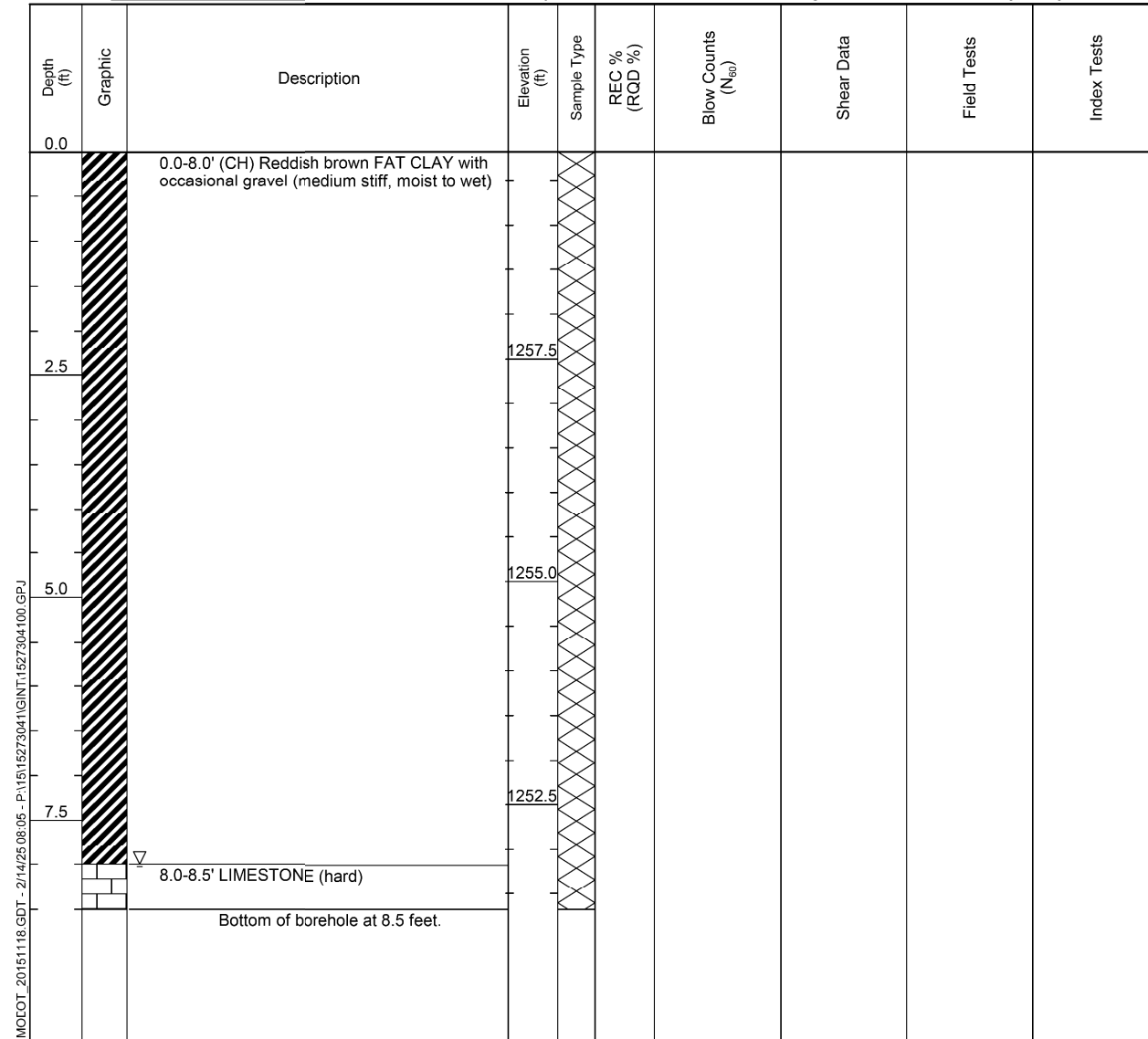
BORING NO. B-6  
Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+21.26  
 Offset: 130.75' Rt.  
 Elevation: 1259.8  
 Requested Station: \_\_\_\_\_  
 Requested Offset: \_\_\_\_\_  
 Requested Elevation: \_\_\_\_\_  
 Drill No.: 401073  
 County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II (GeoEngineers, Inc.)  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 451014.0323  
 Easting: 142698.599  
 Requested Northing: \_\_\_\_\_  
 Requested Easting: \_\_\_\_\_  
 Location Note: \_\_\_\_\_  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 8.0  
 Depth Hole Open: 8.5  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger

Missouri Department of Transportation  
Construction and Materials

BORING NO. B-7  
Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+33.65  
 Offset: 106.25' Rt.  
 Elevation: 1252.9  
 Requested Station: 183+33.65  
 Requested Offset: 106.25' Rt.  
 Requested Elevation: 1252.9  
 Drill No.: 401073  
 County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II (GeoEngineers, Inc.)  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 451037.8037  
 Easting: 1426942.3449  
 Requested Northing: 451037.8037  
 Requested Easting: 1426942.3449  
 Location Note: Center of drainage channel  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 0.0  
 Depth Hole Open: 2  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central  
 Coordinate Proj. Factor: \_\_\_\_\_  
 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.

N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central  
 Coordinate Proj. Factor: \_\_\_\_\_  
 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.

BORING DATA

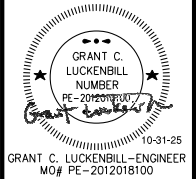
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

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

Sheet No. 16 of 31

Digitally signed by Grant Luckenbill  
 Date: 2025.10.31 12:02:44-05'00'



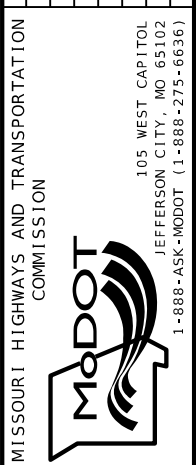
DATE PREPARED  
 10/30/2025

ROUTE CC STATE MO  
 DISTRICT BR SHEET NO. 16

COUNTY CHRISTIAN  
 JOB NO. J8S0736E  
 CONTRACT ID.

PROJECT NO.  
 BRIDGE NO. A38612

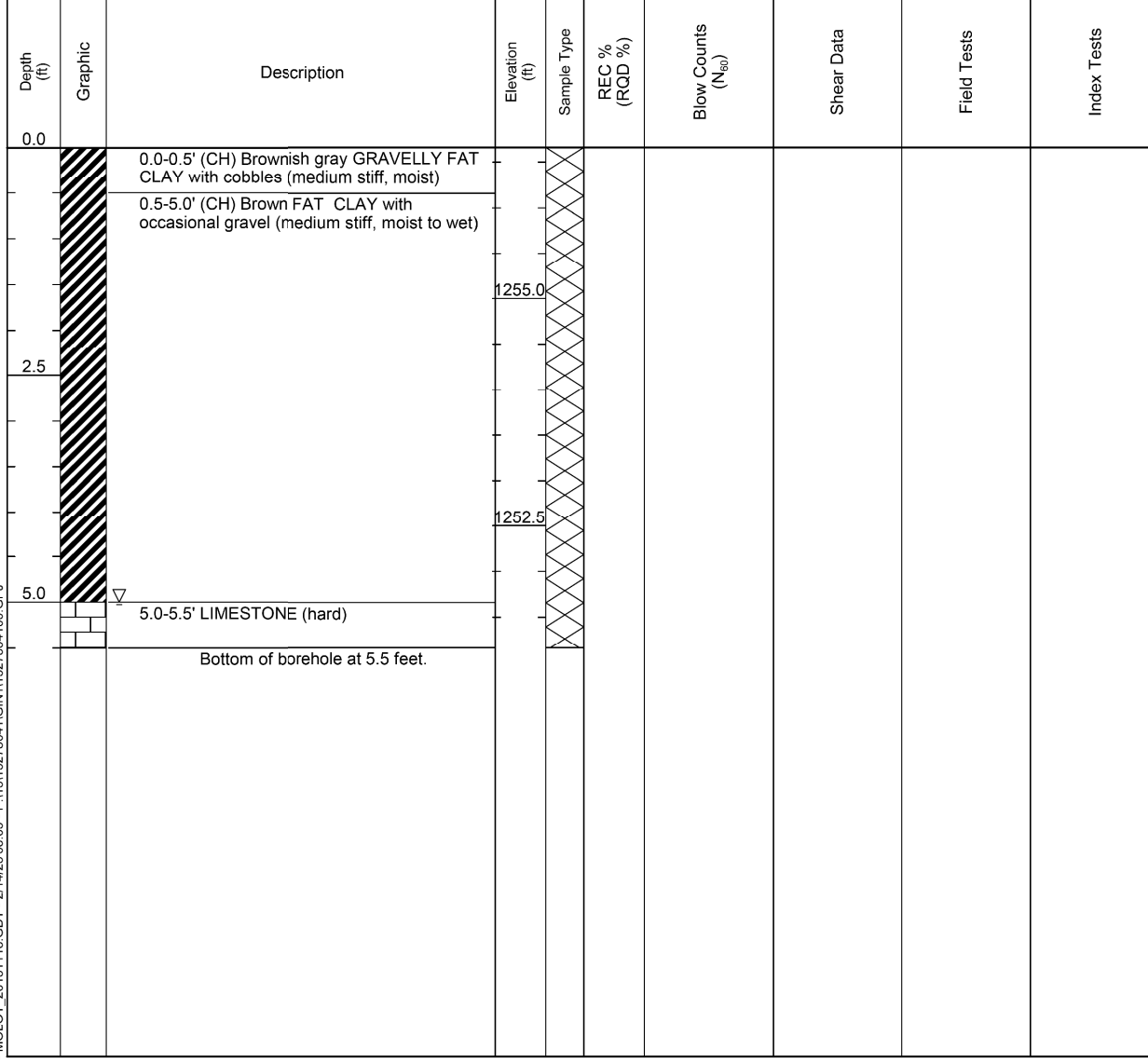
DATE	DESCRIPTION



olsson  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**Missouri Department of Transportation Construction and Materials** **BORING NO. B-8**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+41.17 Northing: 451048.9564 Date of Work: 01/22/25-01/22/25  
 Offset: 94.65' Rt. Easting: 1426950.5282 Depth to Water: 5.0  
 Elevation: 1256.7 Requested Northing: 451048.9564 Depth Hole Open: 5.5  
 Requested Station: 183+41.17 Requested Easting: 1426950.5282 Time Change: 0 hours  
 Requested Offset: 94.65' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1256.7 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

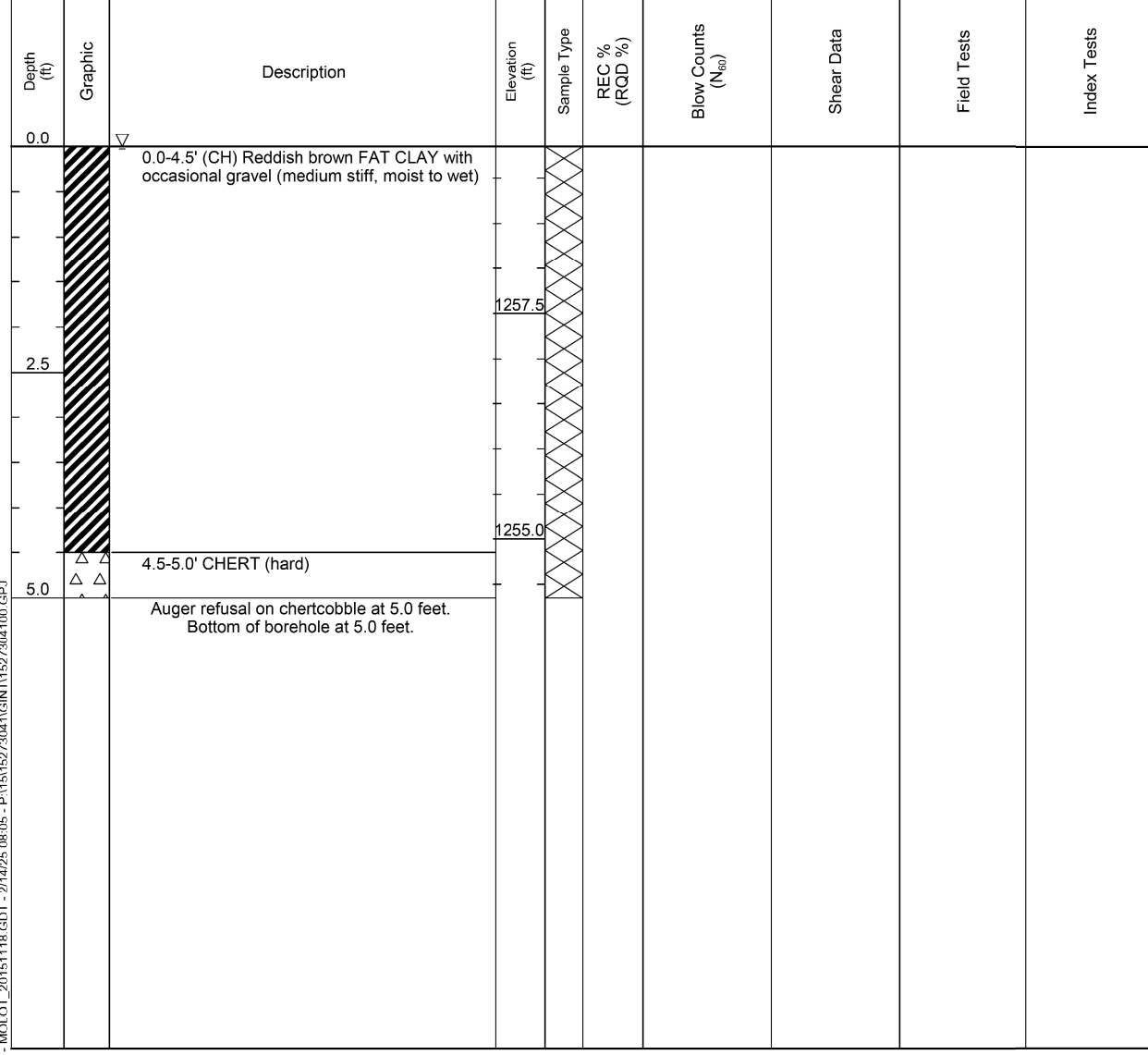


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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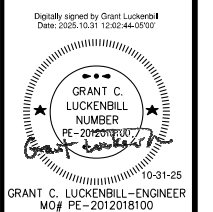
**Missouri Department of Transportation Construction and Materials** **BORING NO. B-9**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+27.48 Northing: 451010.8476 Date of Work: 01/23/25-01/23/25  
 Offset: 133.59' Rt. Easting: 1426934.65 Depth to Water: 0.0  
 Elevation: 1259.4 Requested Northing: \_\_\_\_\_ Depth Hole Open: 5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 17  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION

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

**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

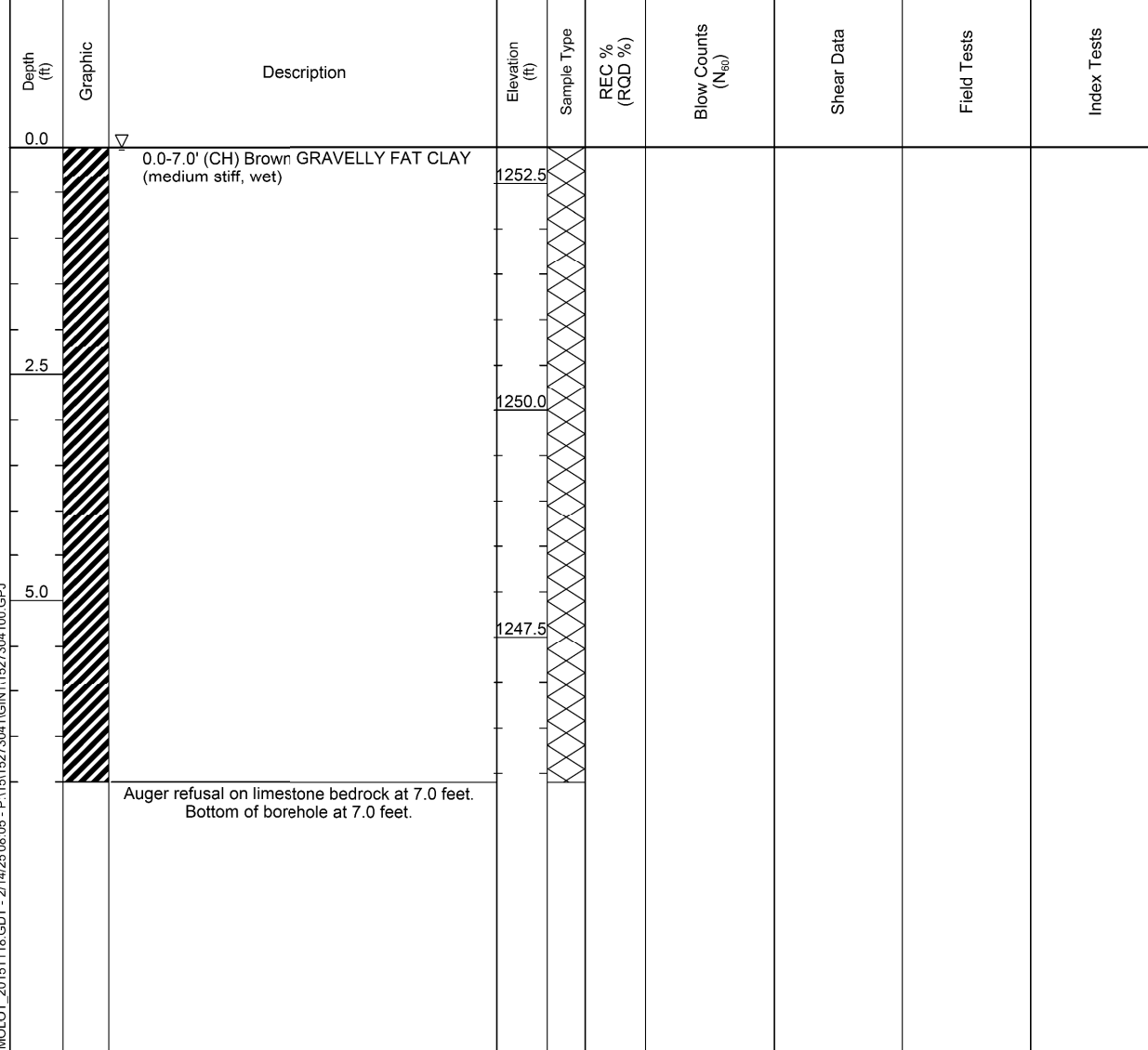
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 17 of 31

**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-10**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+42.00 Northing: 451031.8885 Date of Work: 01/23/25-01/23/25  
 Offset: 111.7' Rt. Easting: 1426950.4077 Depth to Water: 0.0  
 Elevation: 1252.9 Requested Northing: 451031.8885 Depth Hole Open: 7  
 Requested Station: 183+42.00 Requested Easting: 1426950.4077 Time Change: 0 hours  
 Requested Offset: 111.7' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1252.9 Location Note: Center of drainage channel  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

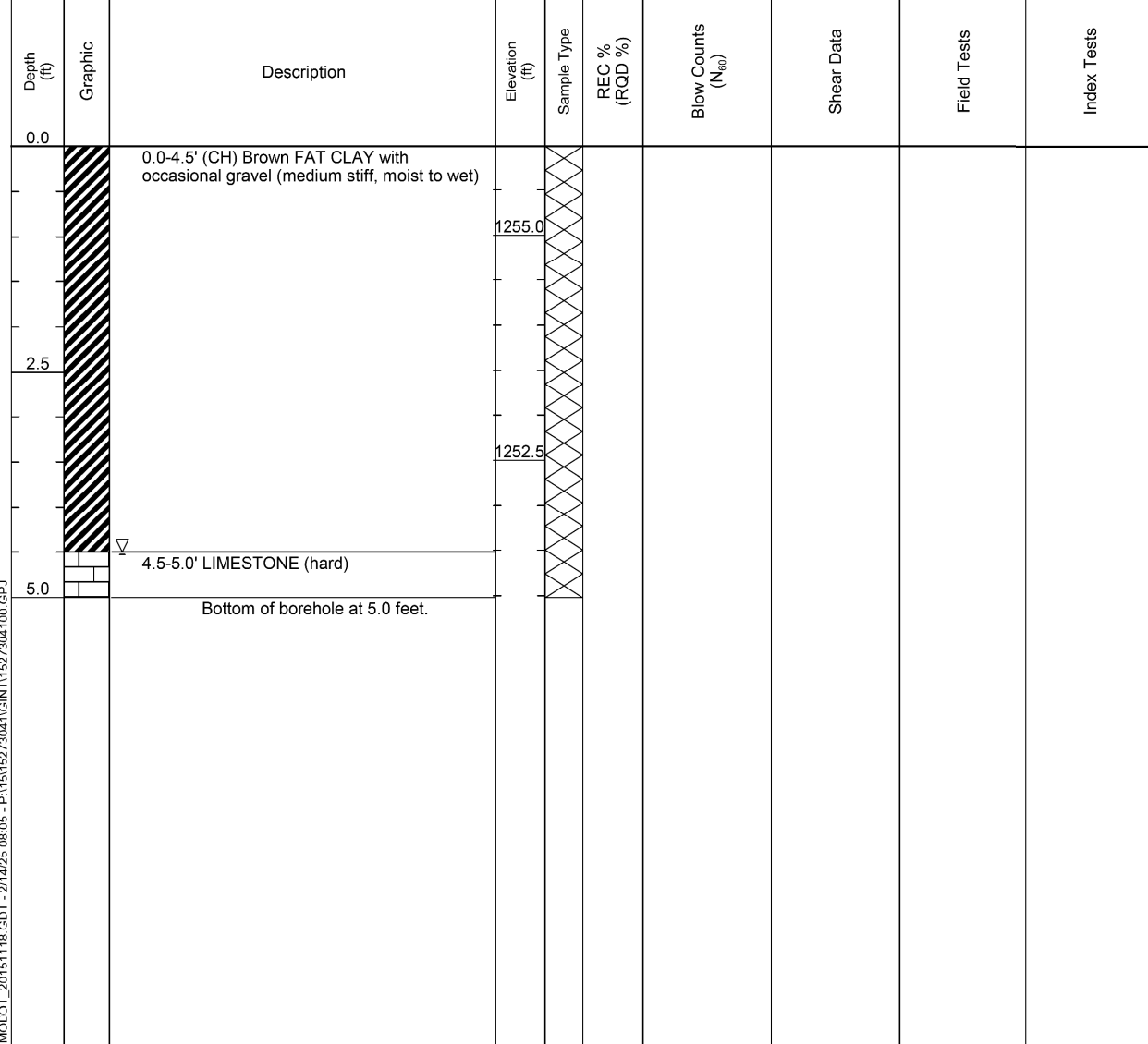


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.

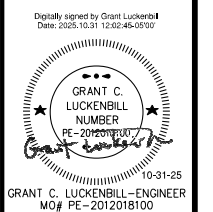
**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-11**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+49.53 Northing: 451043.0417 Date of Work: 01/22/25-01/22/25  
 Offset: 100.11' Rt. Easting: 1426958.5902 Depth to Water: 4.5  
 Elevation: 1256.0 Requested Northing: 451043.0417 Depth Hole Open: 5  
 Requested Station: 183+49.53 Requested Easting: 1426958.5902 Time Change: 0 hours  
 Requested Offset: 100.11' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1256.0 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



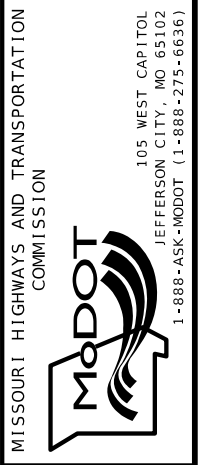
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 18  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

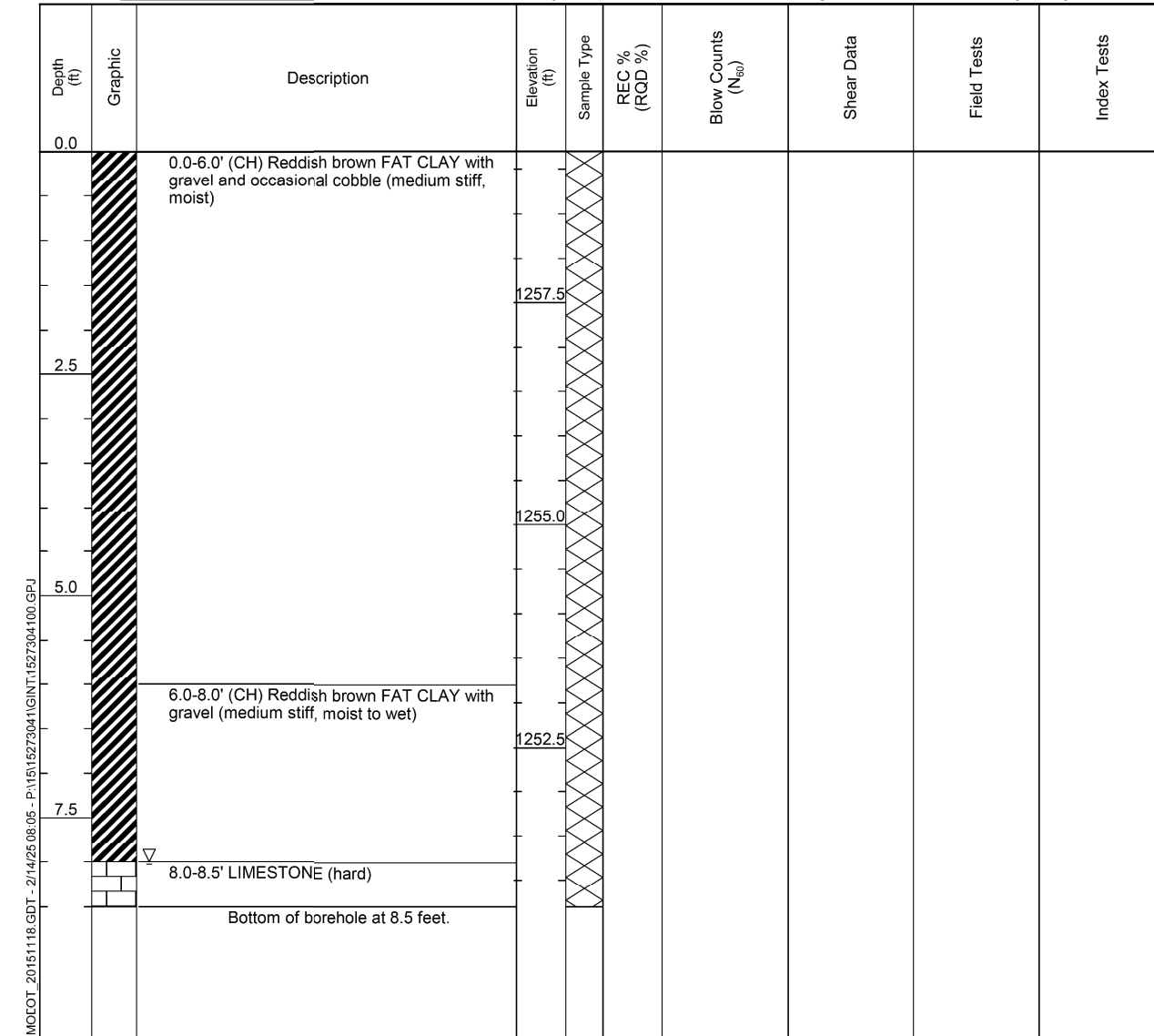
Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 18 of 31

Missouri Department of Transportation  
Construction and Materials

BORING NO. B-12  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: Skew: Location: Christian County  
 Bent: Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+34.27 Northing: 451006.2646 Date of Work: 01/23/25-01/23/25  
 Offset: 137.80' Rt. Easting: 1426941.208 Depth to Water: 8.0  
 Elevation: 1259.2 Requested Northing: Depth Hole Open: 8.5  
 Requested Station: Requested Easting: Time Change: 0 hours  
 Requested Offset: Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: Location Note:  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



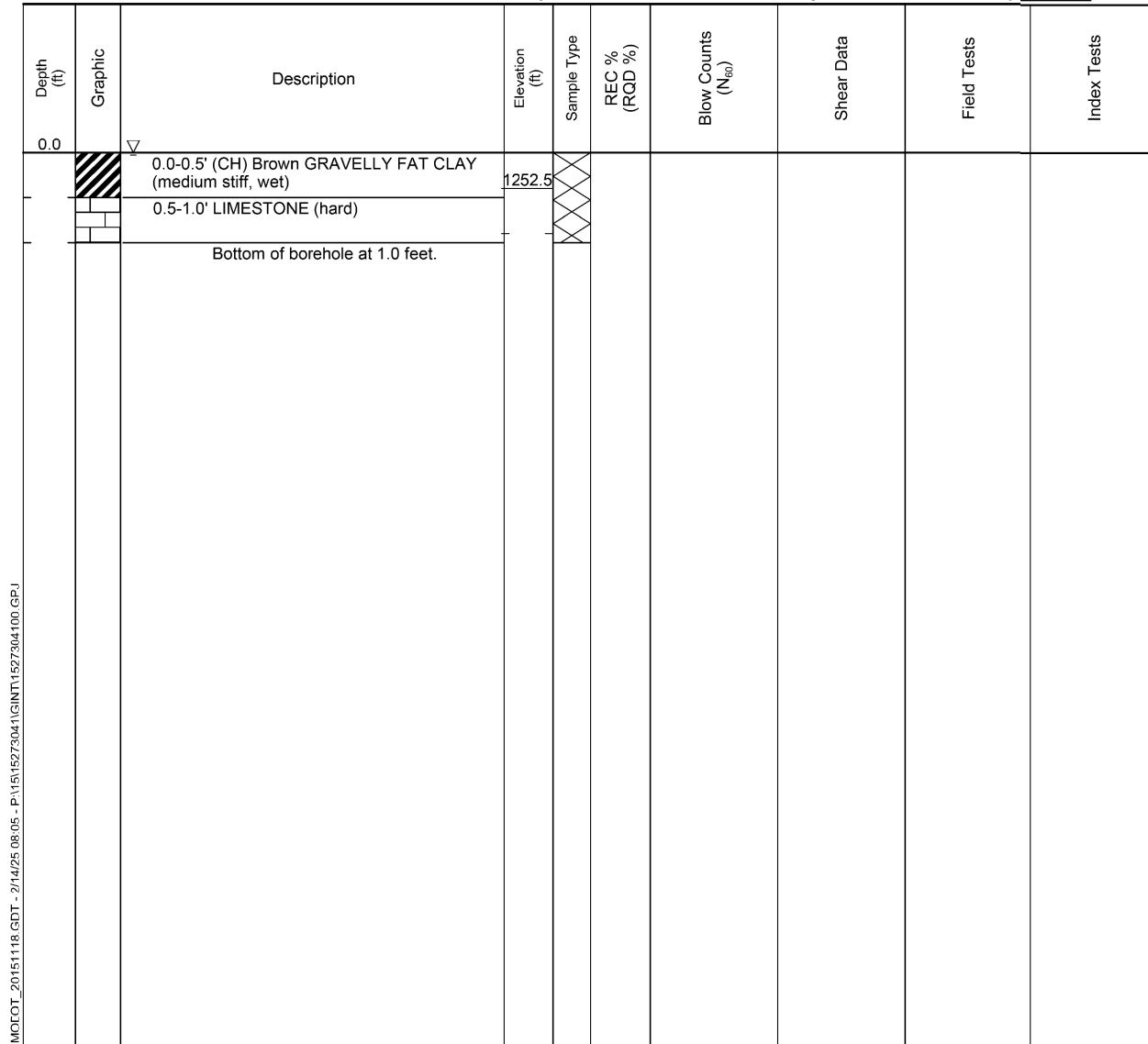
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor:  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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Missouri Department of Transportation  
Construction and Materials

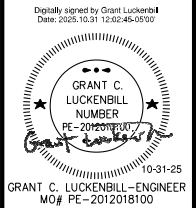
BORING NO. B-13  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: Skew: Location: Christian County  
 Bent: Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+50.35 Northing: 451025.9732 Date of Work: 01/23/25-01/23/25  
 Offset: 117.16' Rt. Easting: 1426958.4706 Depth to Water: 0.0  
 Elevation: 1252.9 Requested Northing: Depth Hole Open: 1  
 Requested Station: Requested Easting: Time Change: 0 hours  
 Requested Offset: Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: Location Note: Center of drainage channel  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor:  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 19  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.:

PROJECT NO.:  
 BRIDGE NO.: A38612

DATE	DESCRIPTION

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

**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

BORING DATA

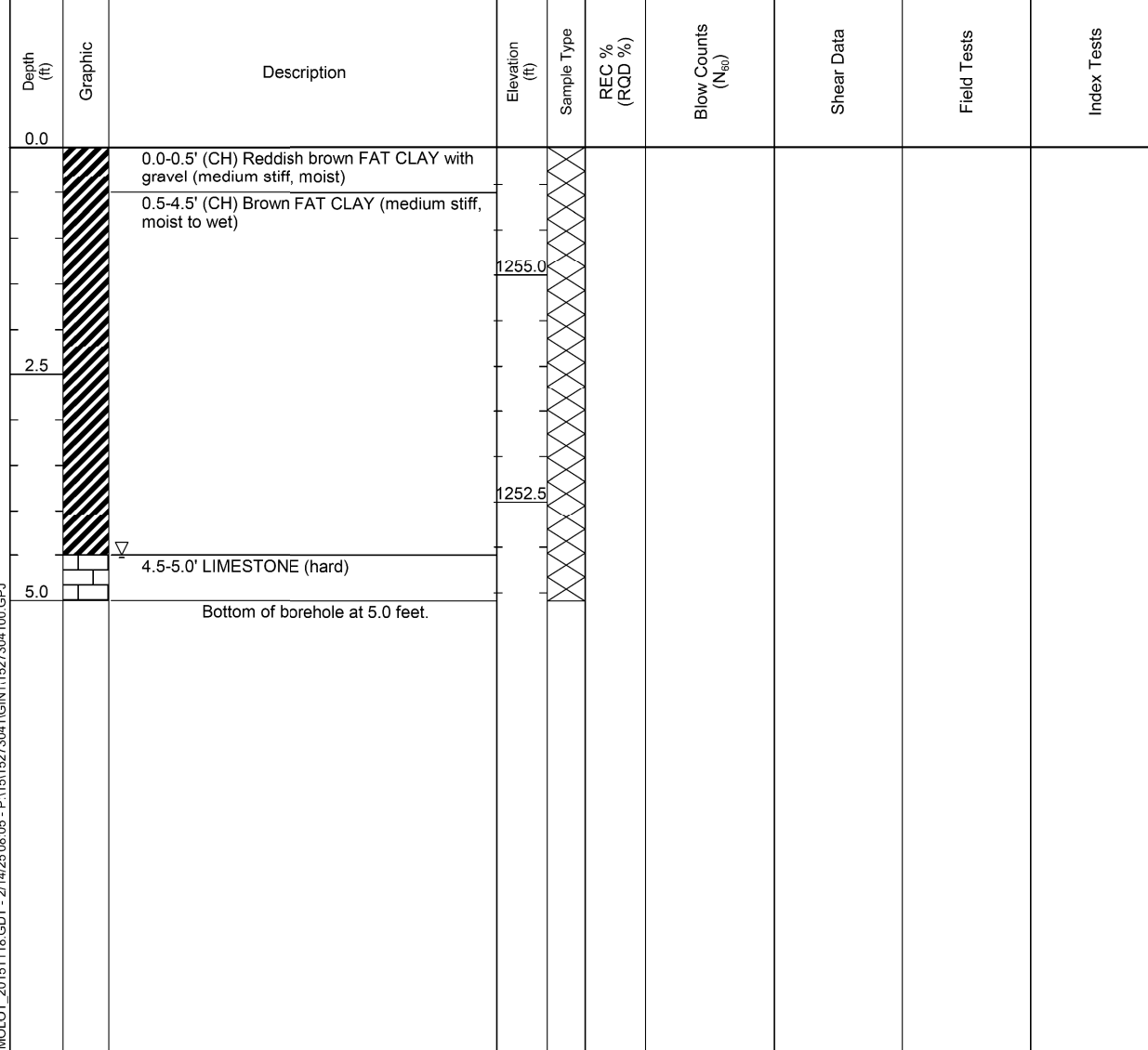
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 19 of 31

**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-14**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+57.88 Northing: 451037.1265 Date of Work: 01/22/25-01/22/25  
 Offset: 105.57' Rt. Easting: 1426966.6531 Depth to Water: 4.5  
 Elevation: 1256.4 Requested Northing: 451037.1265 Depth Hole Open: 5  
 Requested Station: 183+57.88 Requested Easting: 1426966.6531 Time Change: 0 hours  
 Requested Offset: 105.57' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1256.4 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

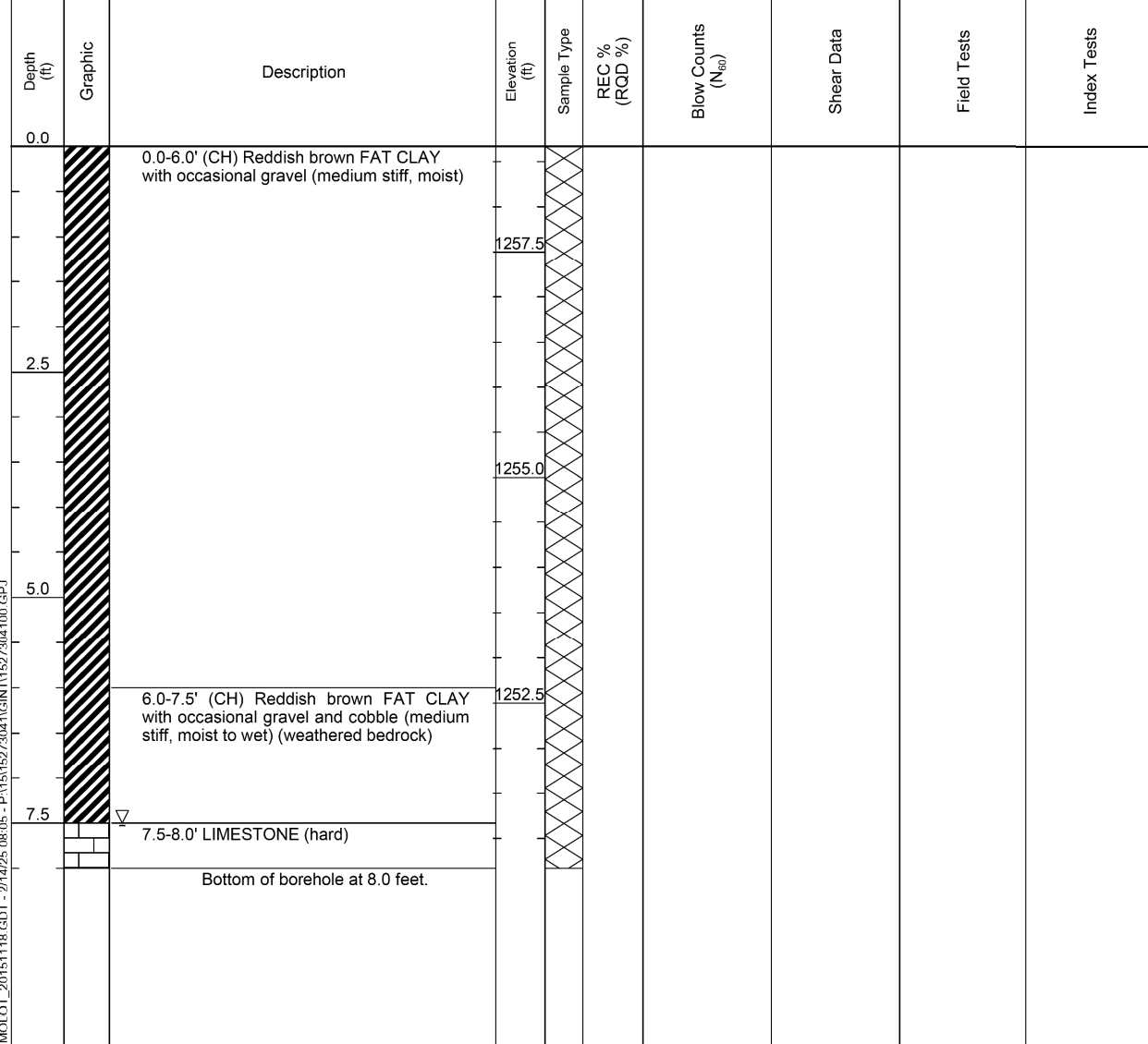


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.

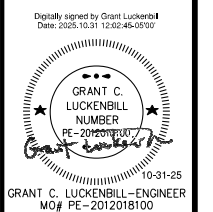
**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-15**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+42.38 Northing: 451001.2588 Date of Work: 01/23/25-01/23/25  
 Offset: 142.36' Rt. Easting: 1426949.081 Depth to Water: 7.5  
 Elevation: 1258.7 Requested Northing: \_\_\_\_\_ Depth Hole Open: 8  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



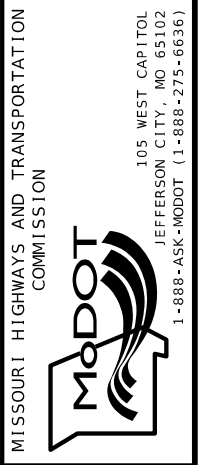
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 20  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 20 of 31



Missouri Department of Transportation  
Construction and Materials

**BORING NO. B-18**  
Page 1 of 1

Job No.: J8S0736E  
Design: \_\_\_\_\_  
Bent: \_\_\_\_\_  
Station: 183+52.42  
Offset: 144.12' Rt.  
Elevation: 1257.1  
Requested Station: \_\_\_\_\_  
Requested Offset: \_\_\_\_\_  
Requested Elevation: \_\_\_\_\_  
Drill No.: 401073

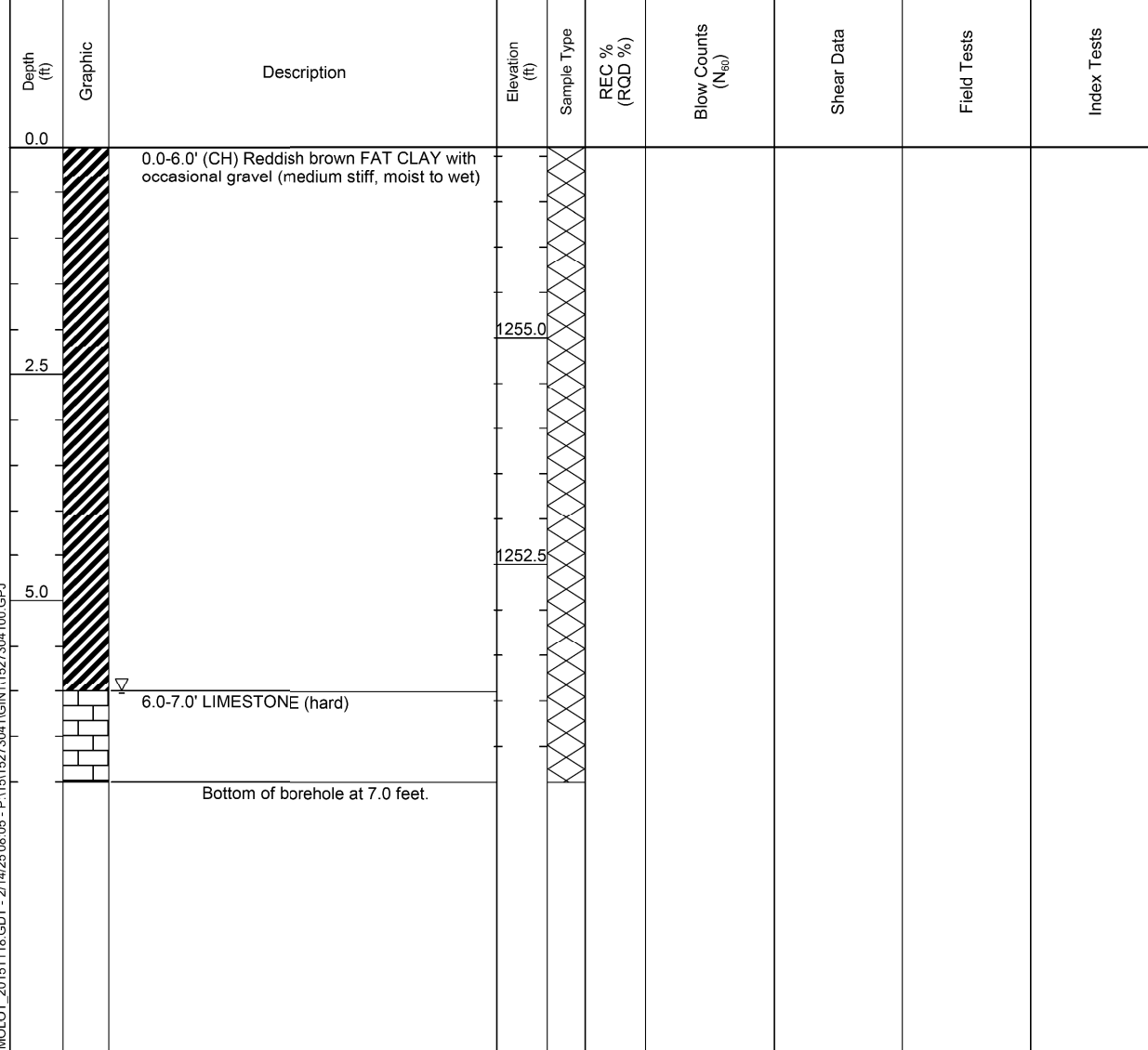
County: Christian  
Route: CC  
Location: Christian County

Logged By: Mark Mathis II [GeoEngineers, Inc.]  
Operator: Carmen Hunter (OWN, Inc.)

Northing: 450998.9418  
Easting: 142699.052  
Date of Work: 01/23/25-01/23/25  
Depth to Water: 6.0  
Requested Northing: \_\_\_\_\_  
Requested Easting: \_\_\_\_\_  
Time Change: 0 hours

Equipment: CME 550X, 4" Augers, Continuous Sampler  
Location Note: \_\_\_\_\_

Hammer Efficiency: 81.3%  
Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)N<sub>m</sub> N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N<sub>m</sub> - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983  
Coordinate Zone: Missouri Central  
Coordinate Proj. Factor: \_\_\_\_\_

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.

Missouri Department of Transportation  
Construction and Materials

**BORING NO. B-19**  
Page 1 of 1

Job No.: J8S0736E  
Design: \_\_\_\_\_  
Bent: \_\_\_\_\_  
Station: 183+73.67  
Offset: 130.12' Rt.  
Elevation: 1254.7  
Requested Station: \_\_\_\_\_  
Requested Offset: \_\_\_\_\_  
Requested Elevation: \_\_\_\_\_  
Drill No.: 401073

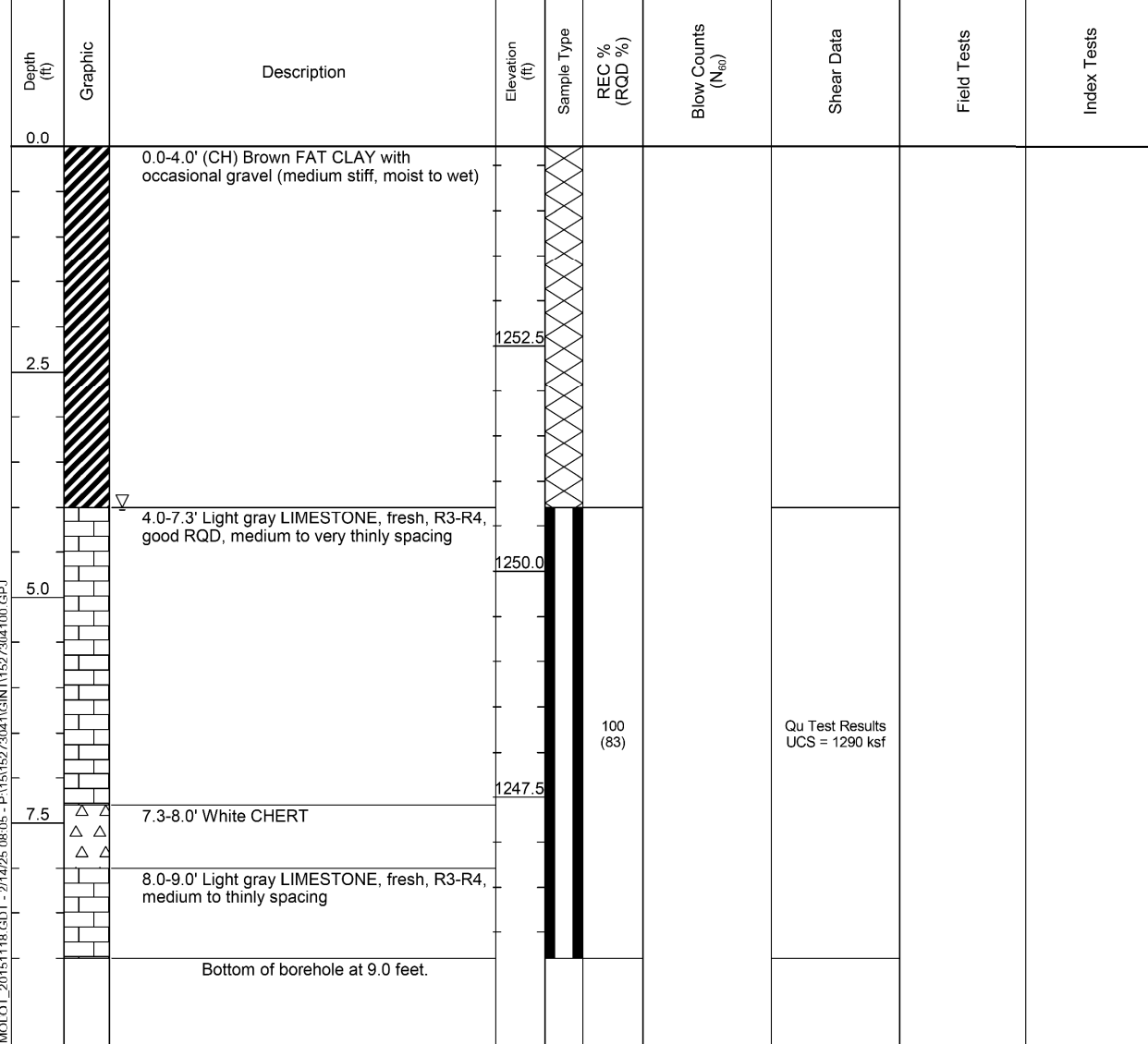
County: Christian  
Route: CC  
Location: Christian County

Logged By: Mark Mathis II [GeoEngineers, Inc.]  
Operator: Carmen Hunter (OWN, Inc.)

Northing: 451011.7459  
Easting: 142698.126  
Date of Work: 01/24/25-01/24/25  
Depth to Water: 4.0  
Requested Northing: \_\_\_\_\_  
Requested Easting: \_\_\_\_\_  
Time Change: 0 hours

Equipment: CME 550X, 4" Augers, Continuous Sampler, NQ  
Location Note: \_\_\_\_\_

Hammer Efficiency: 81.3%  
Drilling Method: Continuous Flight Auger

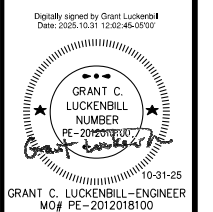


N<sub>60</sub> = (Em/60)N<sub>m</sub> N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; N<sub>m</sub> - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983  
Coordinate Zone: Missouri Central  
Coordinate Proj. Factor: \_\_\_\_\_

Coordinate Datum: NAD 83  
Coordinate Units: U.S. Survey Feet

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DATE PREPARED: 10/30/2025

ROUTE: CC STATE: MO

DISTRICT: BR SHEET NO.: 22

COUNTY: CHRISTIAN

JOB NO.: J8S0736E

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A38612

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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

**Olsson**

1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177

CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

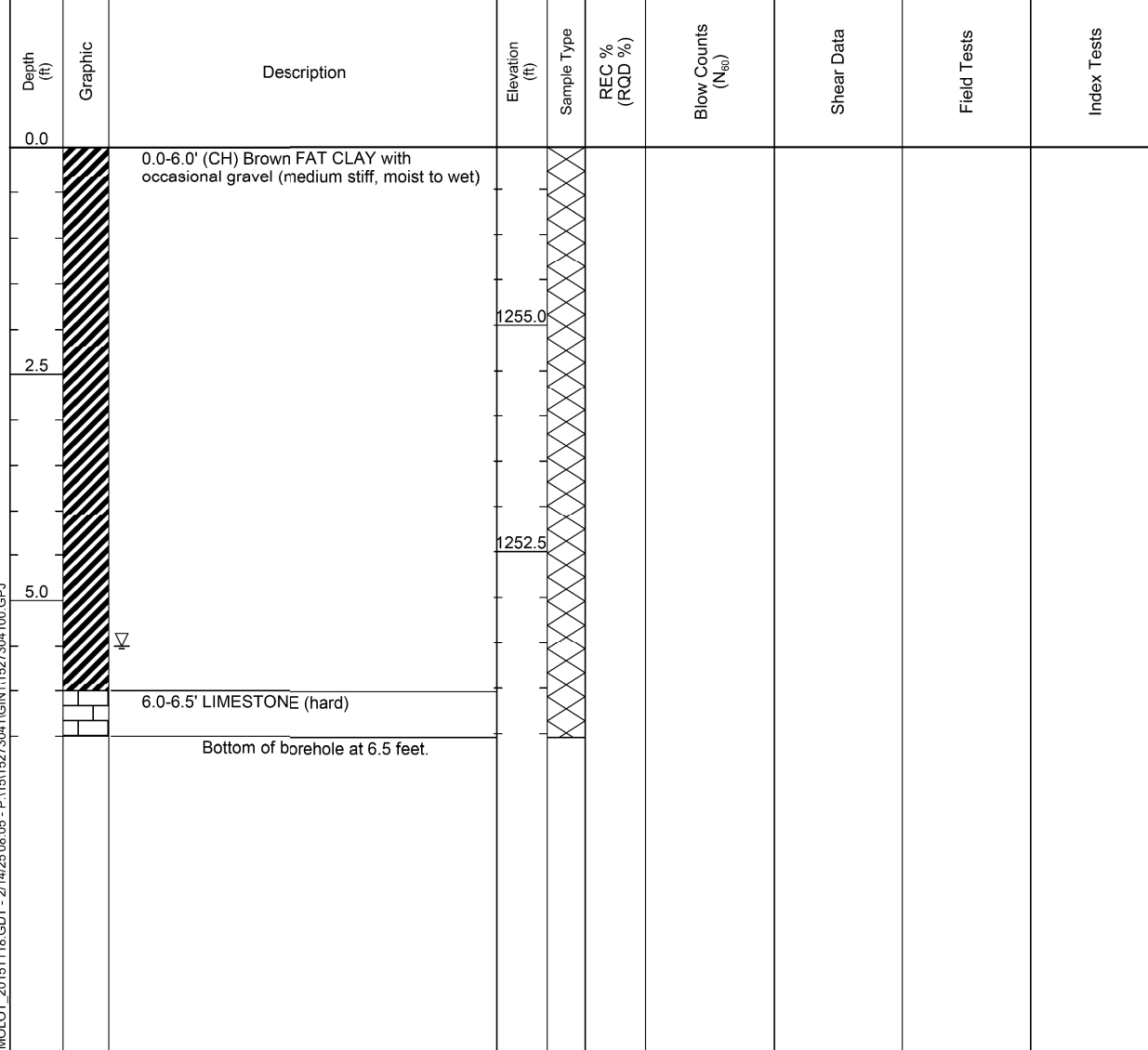
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 22 of 31

**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-20**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+74.58 Northing: 451025.296 Date of Work: 01/22/25-01/22/25  
 Offset: 116.5' Rt. Easting: 1426982.7788 Depth to Water: 5.5  
 Elevation: 1257.0 Requested Northing: 451025.296 Depth Hole Open: 6.5  
 Requested Station: 183+74.58 Requested Easting: 1426982.7788 Time Change: 0 hours  
 Requested Offset: 116.5' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1257.0 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

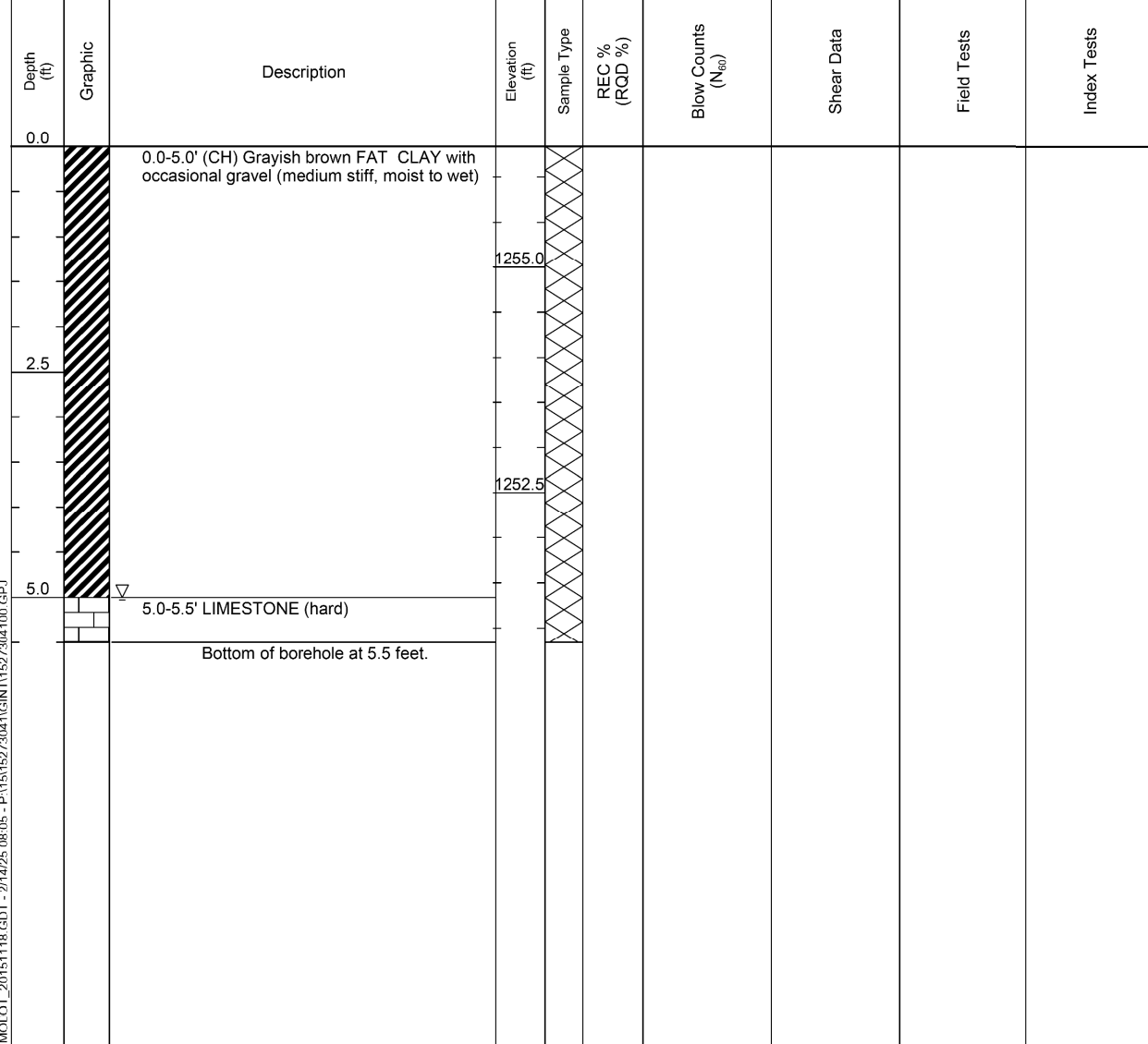


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.

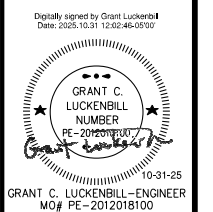
**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-21**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+62.74 Northing: 450992.1331 Date of Work: 01/23/25-01/23/25  
 Offset: 150.36' Rt. Easting: 1426969.056 Depth to Water: 5.0  
 Elevation: 1256.3 Requested Northing: \_\_\_\_\_ Depth Hole Open: 5.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



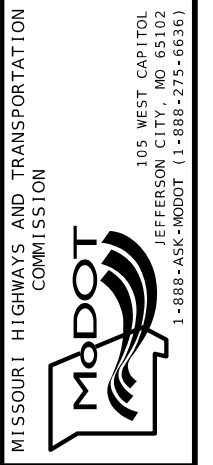
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 23  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

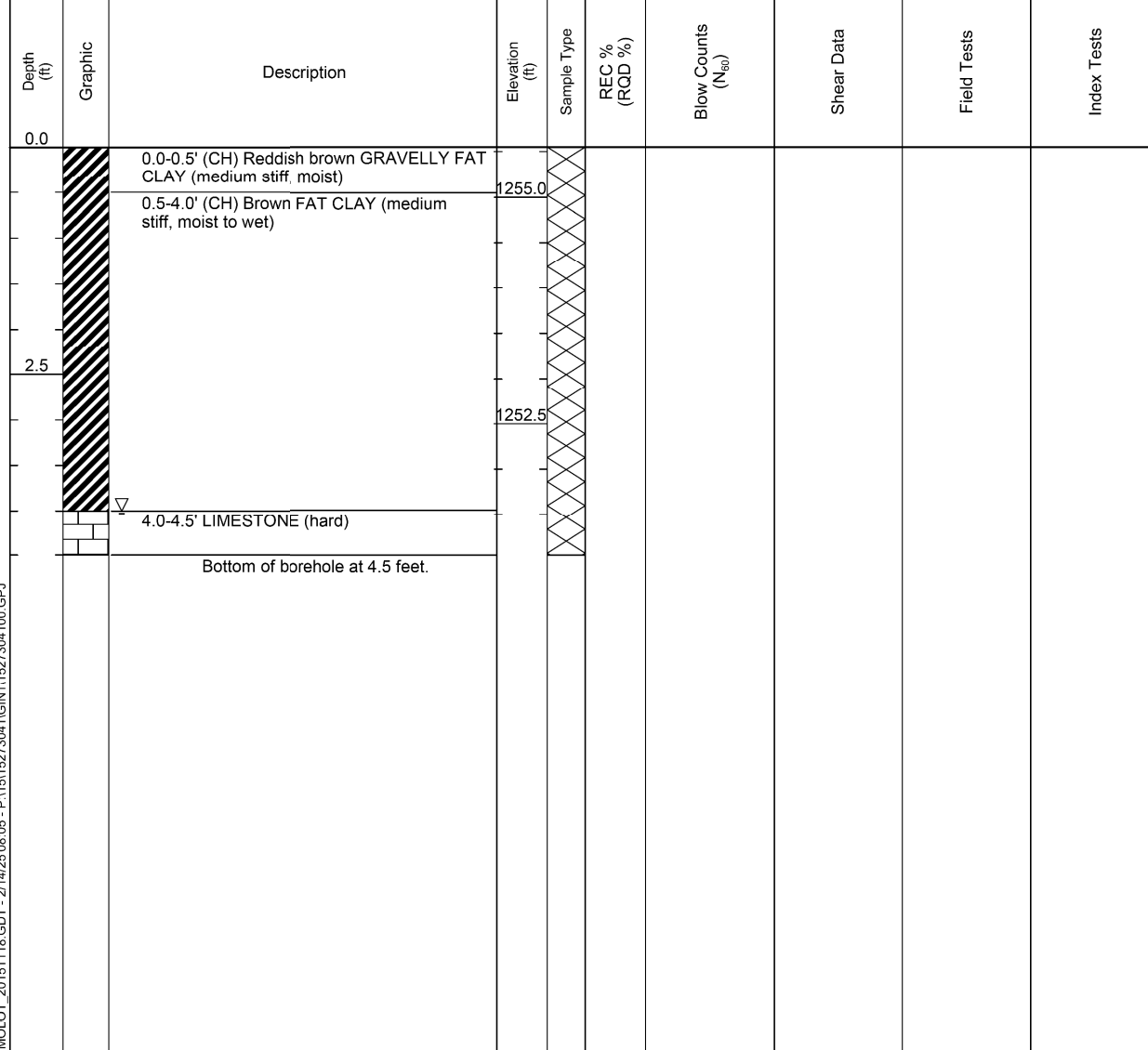
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 23 of 31

**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-22**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+79.37 Northing: 451010.1469 Date of Work: 01/23/25-01/23/25  
 Offset: 131.41' Rt. Easting: 1426986.764 Depth to Water: 4.0  
 Elevation: 1255.6 Requested Northing: \_\_\_\_\_ Depth Hole Open: 4.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

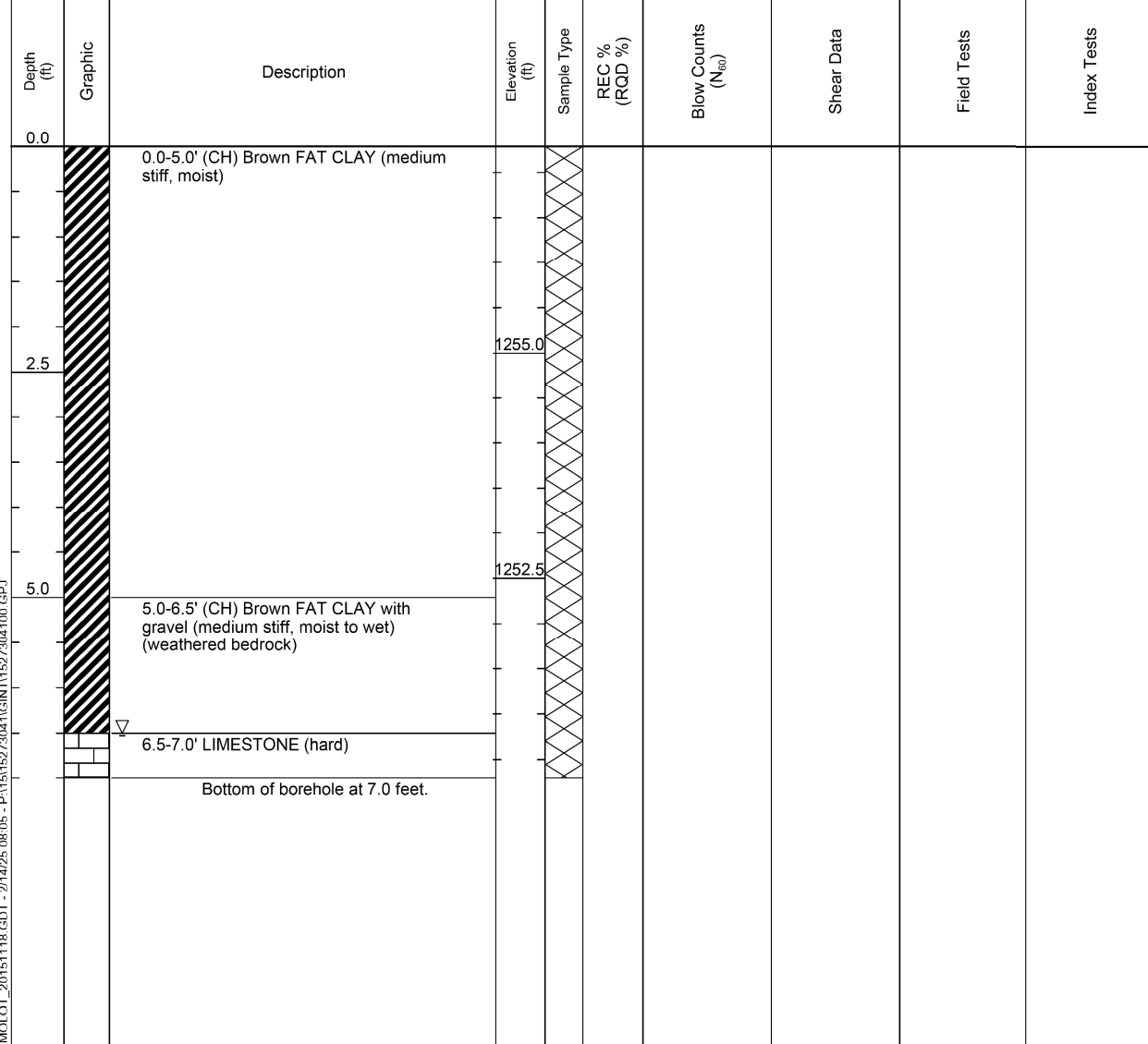


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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**Missouri Department of Transportation  
Construction and Materials** **BORING NO. B-23**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+82.92 Northing: 451019.3807 Date of Work: 01/22/25-01/22/25  
 Offset: 121.97' Rt. Easting: 1426990.8417 Depth to Water: 6.5  
 Elevation: 1257.3 Requested Northing: 451019.3807 Depth Hole Open: 7  
 Requested Station: 183+82.92 Requested Easting: 1426990.8417 Time Change: 0 hours  
 Requested Offset: 121.97' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1257.3 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



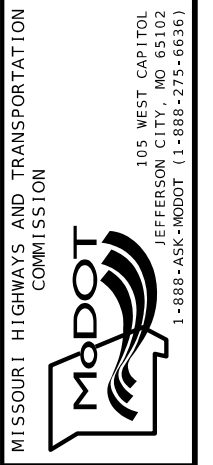
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 24  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

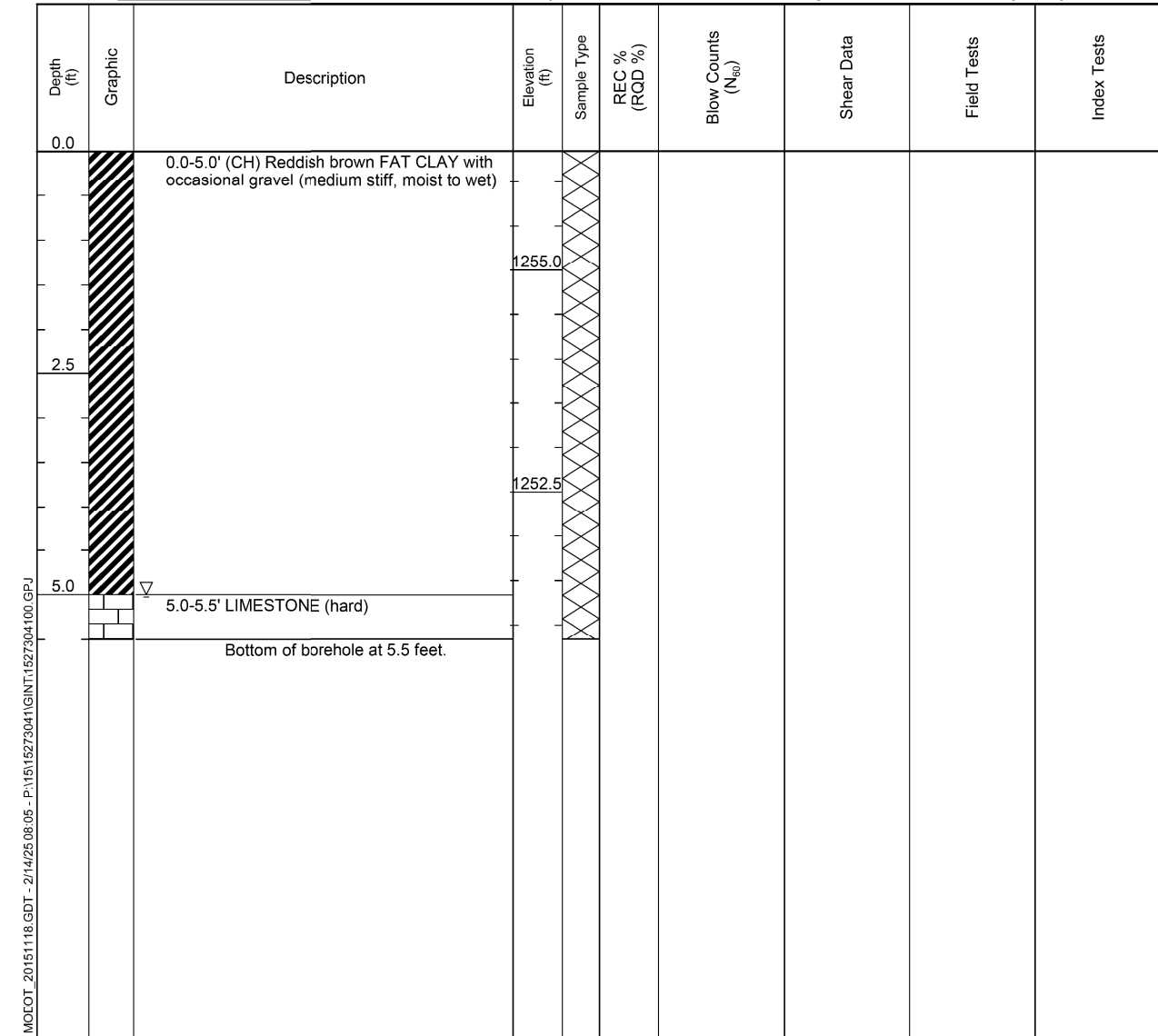
Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 24 of 31

Missouri Department of Transportation  
Construction and Materials

BORING NO. B-24  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+70.43 Northing: 450985.3985 Date of Work: 01/23/25-01/23/25  
 Offset: 156.68' Rt. Easting: 1426976.422 Depth to Water: 5.0  
 Elevation: 1256.3 Requested Northing: \_\_\_\_\_ Depth Hole Open: 5.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



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

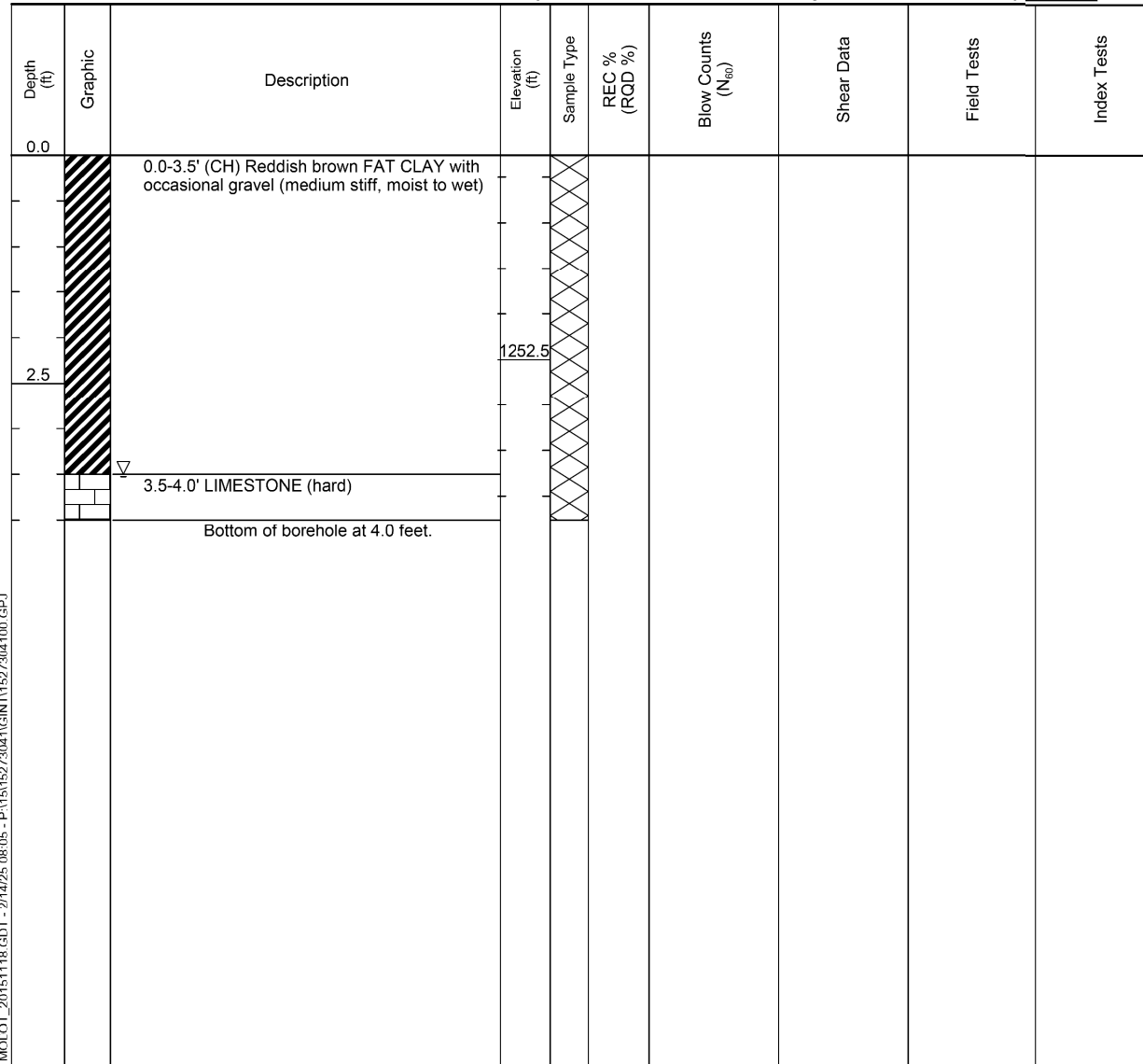
Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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Missouri Department of Transportation  
Construction and Materials

BORING NO. B-25  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II [GeoEngineers, Inc.] Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+84.91 Northing: 451002.5754 Date of Work: 01/23/25-01/23/25  
 Offset: 138.69' Rt. Easting: 1426991.926 Depth to Water: 3.5  
 Elevation: 1254.7 Requested Northing: \_\_\_\_\_ Depth Hole Open: 4  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

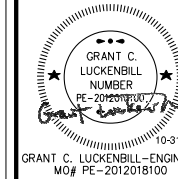


N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual

Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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Digitally signed by Grant Luckenbill  
Date: 2025.10.31 12:02:46-0500'



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 25  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.:

PROJECT NO.:  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

BORING DATA

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 25 of 31

Missouri Department of Transportation  
Construction and Materials

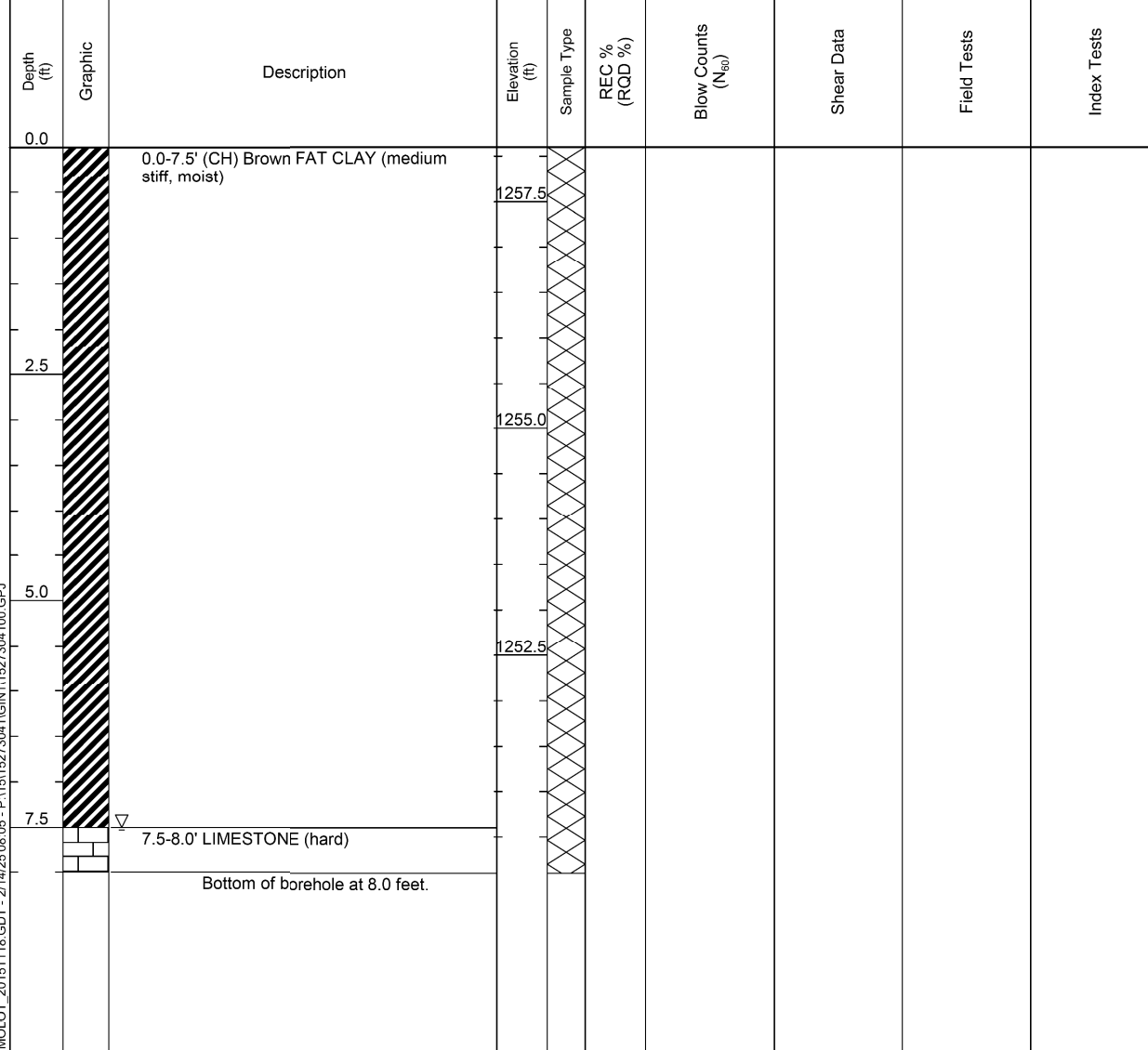
**BORING NO. B-26**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+92.82 Northing: 451015.7613 Date of Work: 01/22/25-01/22/25  
 Offset: 125.05' Rt. Easting: 1427000.5888 Depth to Water: 7.5  
 Elevation: 1258.1 Requested Northing: 451015.7613 Depth Hole Open: 8  
 Requested Station: 183+92.82 Requested Easting: 1427000.5888 Time Change: 0 hours  
 Requested Offset: 125.05' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: 1258.1 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

Missouri Department of Transportation  
Construction and Materials

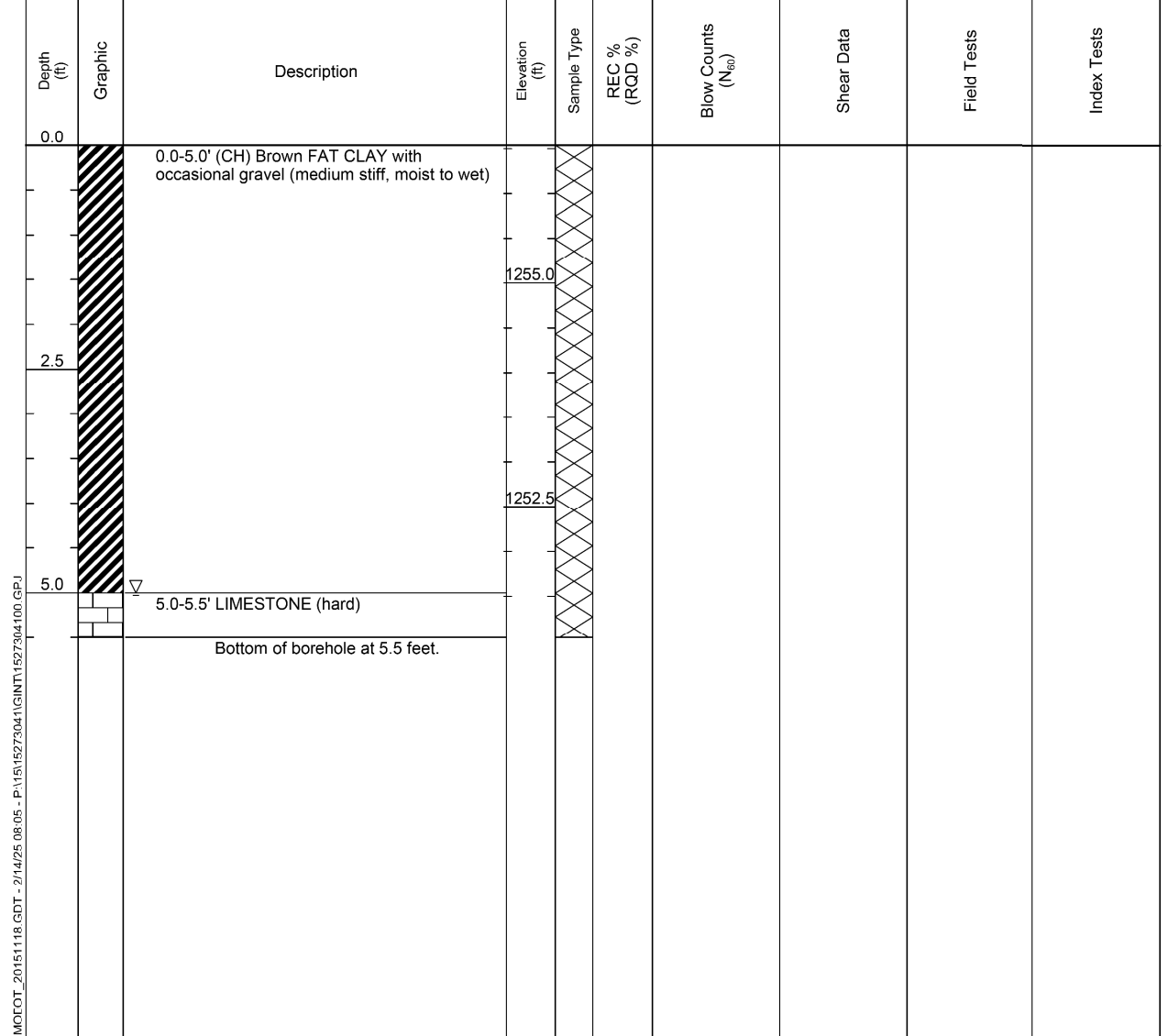
**BORING NO. B-27**  
Page 1 of 1

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+78.47 Northing: 450979.6748 Date of Work: 01/23/25-01/23/25  
 Offset: 161.98' Rt. Easting: 1426984.194 Depth to Water: 5.0  
 Elevation: 1256.5 Requested Northing: \_\_\_\_\_ Depth Hole Open: 5.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



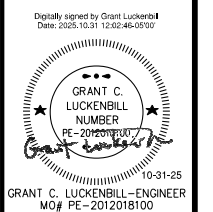
N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.



DATE PREPARED  
**10/30/2025**

ROUTE STATE  
**CC MO**

DISTRICT SHEET NO.  
**BR 26**

COUNTY  
**CHRISTIAN**

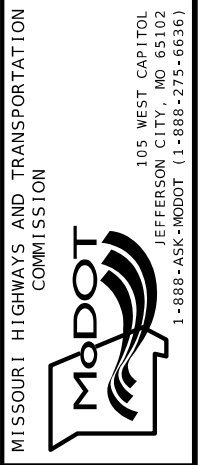
JOB NO.  
**J8S0736E**

CONTRACT ID.

PROJECT NO.

BRIDGE NO.  
**A38612**

DATE	DESCRIPTION



**olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 26 of 31

Missouri Department of Transportation  
Construction and Materials

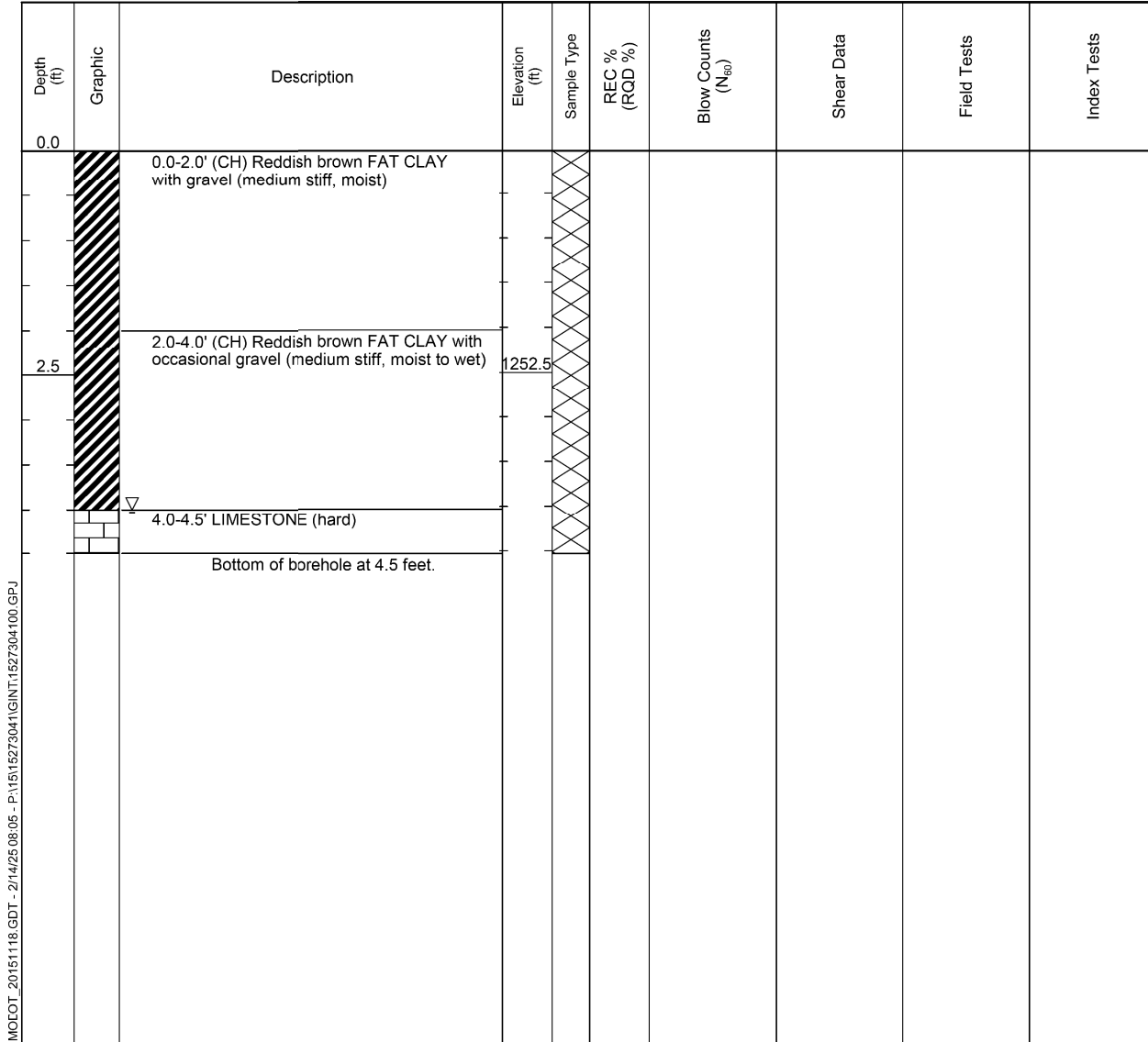
BORING NO. B-28  
Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+93.62  
 Offset: 142.93' Rt.  
 Elevation: 1255.0  
 Requested Station: \_\_\_\_\_  
 Requested Offset: \_\_\_\_\_  
 Requested Elevation: \_\_\_\_\_  
 Drill No.: 401073  
 County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II [GeoEngineers, Inc.]  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 450997.8624  
 Easting: 1427000.424  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 4.0  
 Depth Hole Open: 4.5  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: \_\_\_\_\_  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger

Missouri Department of Transportation  
Construction and Materials

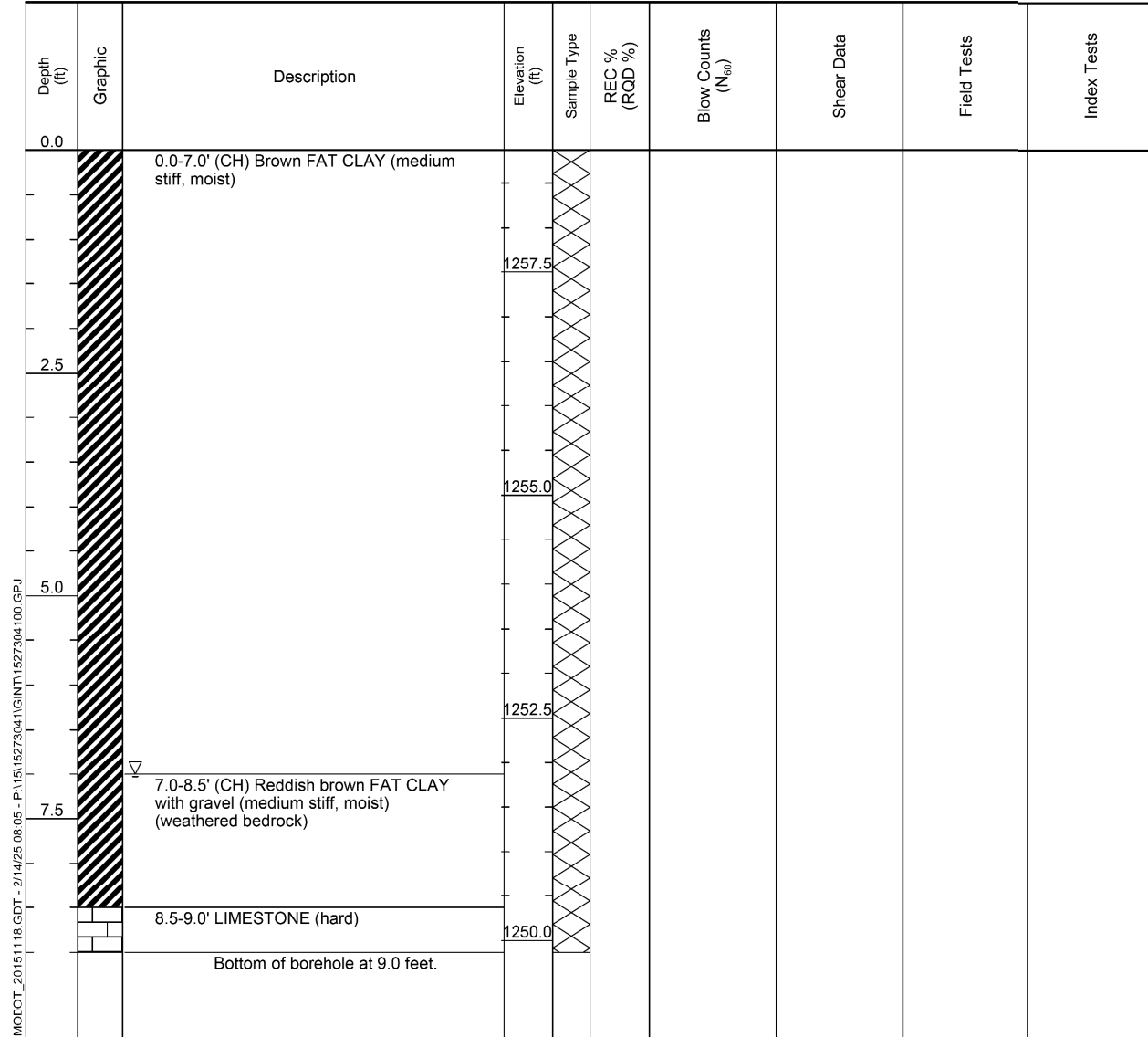
BORING NO. B-29  
Page 1 of 1

Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 184+03.14  
 Offset: 127.48' Rt.  
 Elevation: 1258.9  
 Requested Station: 184+03.14  
 Requested Offset: 127.48' Rt.  
 Requested Elevation: 1258.9  
 Drill No.: 401073  
 County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II [GeoEngineers, Inc.]  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 451012.7807  
 Easting: 1427010.8047  
 Date of Work: 01/22/25-01/22/25  
 Depth to Water: 7.0  
 Depth Hole Open: 9  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: \_\_\_\_\_  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

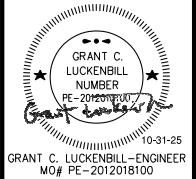
\* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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Digitally signed by Grant Luckenbill  
Date: 2025.10.31 12:02:46-0500'



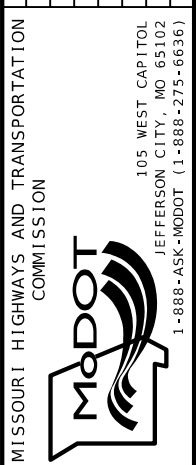
DATE PREPARED  
10/30/2025

ROUTE	STATE
CC	MO
DISTRICT	SHEET NO.
BR	27

COUNTY  
CHRISTIAN  
JOB NO.  
J8S0736E  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.  
A38612

DATE	DESCRIPTION



**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

BORING DATA

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

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

Sheet No. 27 of 31

**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-30**  
 Page 1 of 1

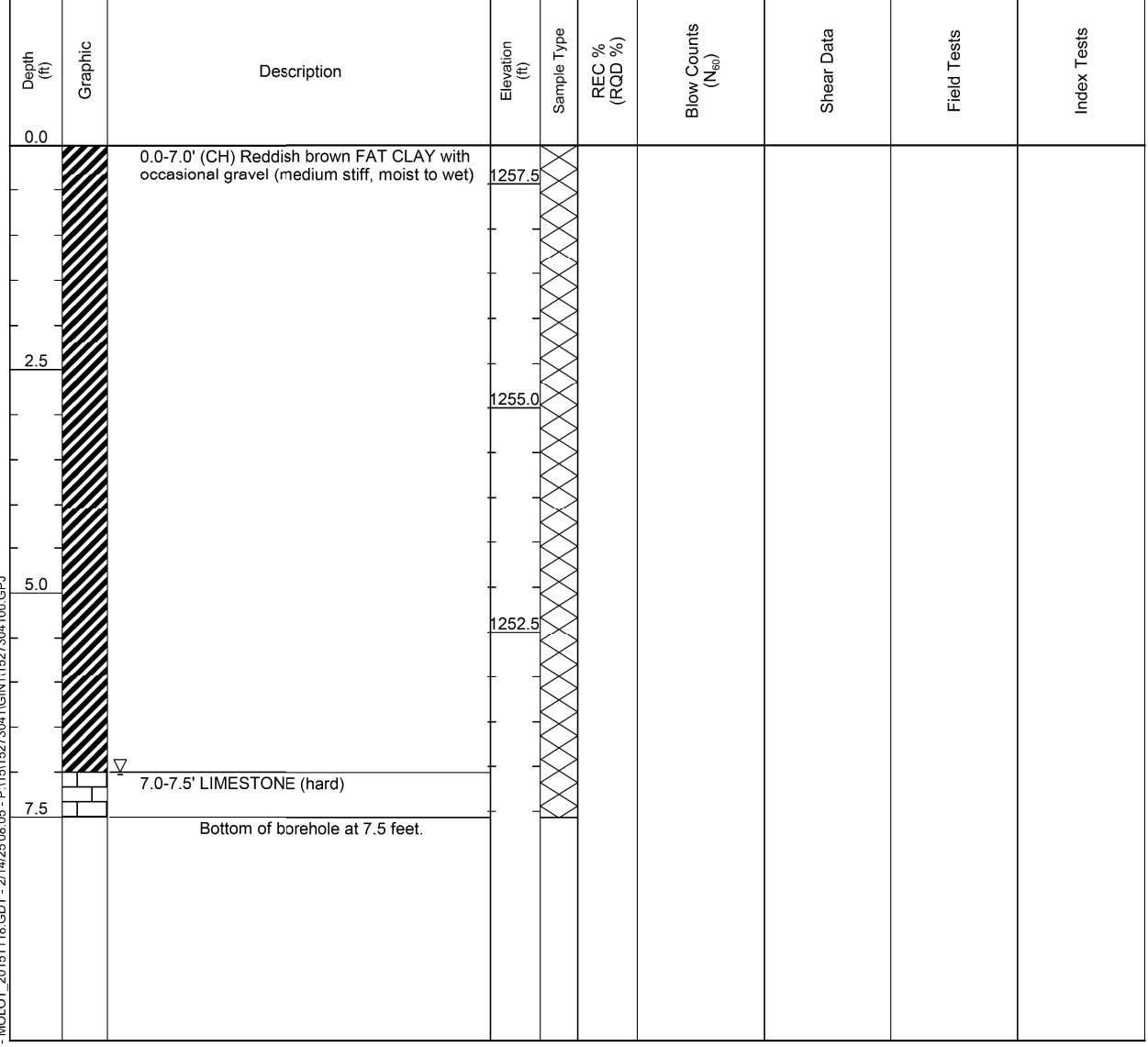
Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 183+85.25  
 Offset: 170.92' Rt.  
 Elevation: 1257.9  
 Requested Station: \_\_\_\_\_  
 Requested Offset: \_\_\_\_\_  
 Requested Elevation: \_\_\_\_\_  
 Drill No.: 401073

County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II [GeoEngineers, Inc.]  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 450970.3766  
 Easting: 1426990.516  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 7.0  
 Depth Hole Open: 7.5  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: \_\_\_\_\_  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger

**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-31**  
 Page 1 of 1

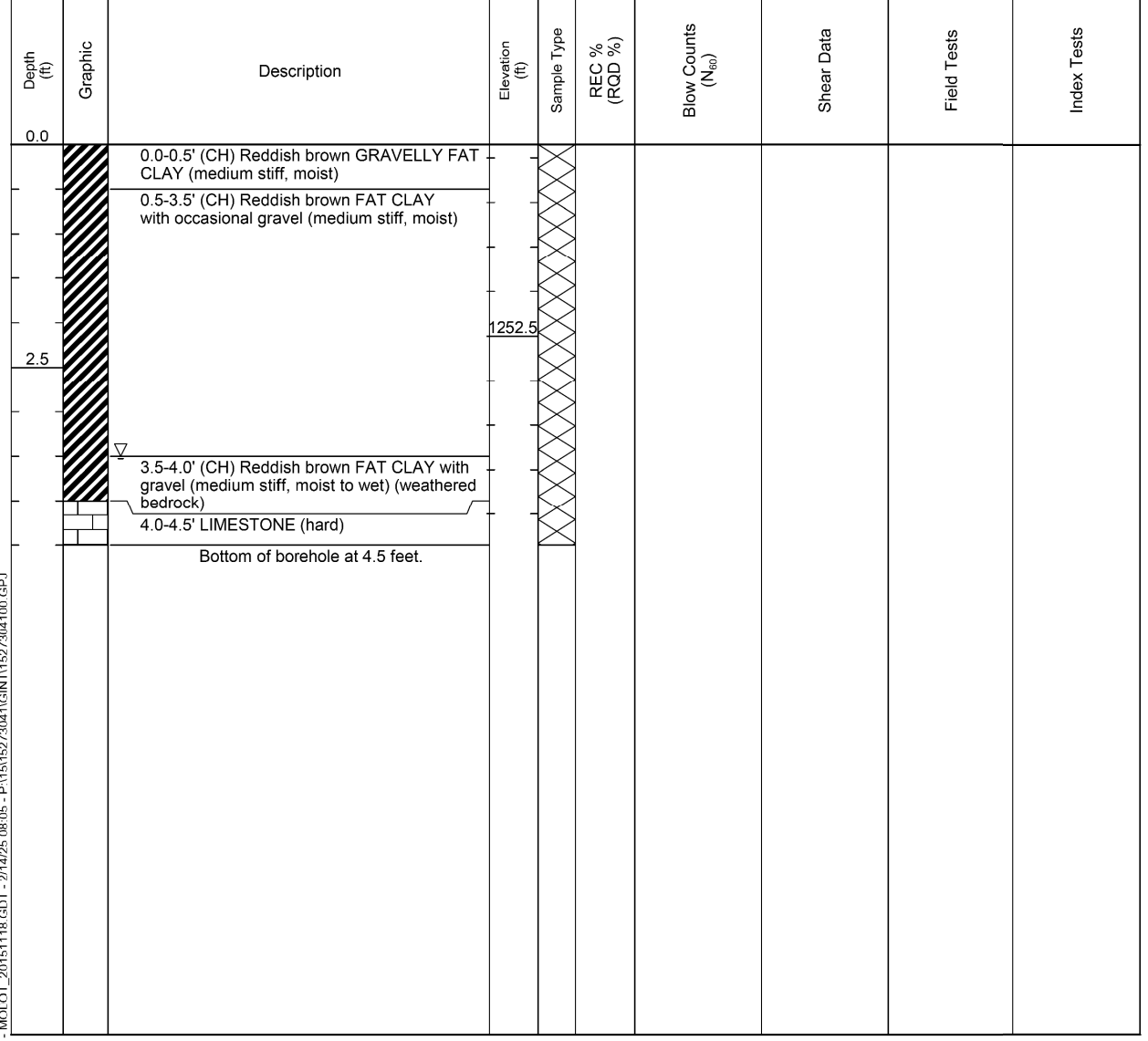
Job No.: J8S0736E  
 Design: \_\_\_\_\_  
 Bent: \_\_\_\_\_  
 Station: 184+02.21  
 Offset: 148.72' Rt.  
 Elevation: 1254.7  
 Requested Station: \_\_\_\_\_  
 Requested Offset: \_\_\_\_\_  
 Requested Elevation: \_\_\_\_\_  
 Drill No.: 401073

County: Christian  
 Route: CC  
 Location: Christian County  
 Logged By: Mark Mathis II [GeoEngineers, Inc.]  
 Operator: Carmen Hunter (OWN, Inc.)  
 Northing: 450991.6167  
 Easting: 1427008.729  
 Date of Work: 01/23/25-01/23/25  
 Depth to Water: 3.5  
 Depth Hole Open: 4.5  
 Time Change: 0 hours  
 Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Location Note: \_\_\_\_\_  
 Hammer Efficiency: 81.3%  
 Drilling Method: Continuous Flight Auger



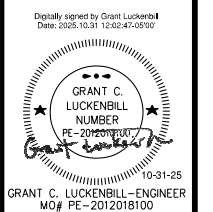
N<sub>60</sub> = (Em/60)Nm    N<sub>60</sub> - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent; Nm - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983    Coordinate Zone: Missouri Central    Coordinate Proj. Factor: \_\_\_\_\_  
 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.



N<sub>60</sub> = (Em/60)Nm    N<sub>60</sub> - 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 Central    Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83    Coordinate Units: U.S. Survey Feet

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DATE PREPARED		10/30/2025	
ROUTE	STATE	DISTRICT	SHEET NO.
CC	MO	BR	28
COUNTY			
CHRISTIAN			
JOB NO.			
J8S0736E			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
A38612			

DATE	DESCRIPTION

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

**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

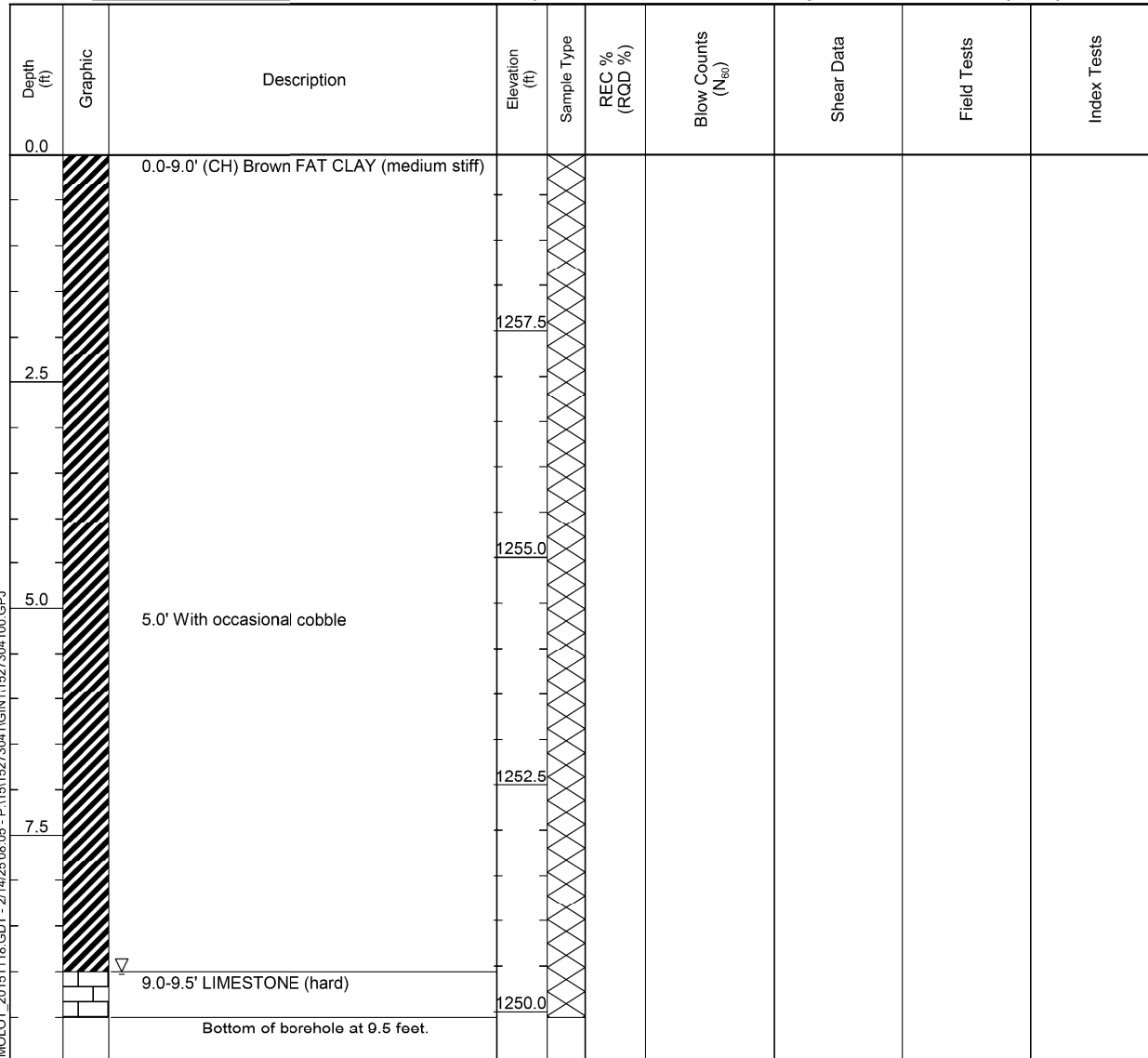
Note: This drawing is not to scale. Follow dimensions. Sheet No. 28 of 31

Missouri Department of Transportation  
Construction and Materials

**BORING NO. B-32**  
Page 1 of 1

Job No.: J8S0736E  
Design: \_\_\_\_\_  
Bent: \_\_\_\_\_  
Station: 184+13.46  
Offset: 129.9' Rt.  
Elevation: 1259.4  
Requested Station: 184+13.46  
Requested Offset: 129.9' Rt.  
Requested Elevation: 1259.4  
Drill No.: 401073

County: Christian Route: CC  
Skew: \_\_\_\_\_ Location: Christian County  
Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
Northing: 451009.8001 Date of Work: 01/22/25-01/22/25  
Easting: 1427021.0205 Depth to Water: 9.0  
Requested Northing: 451009.8001 Depth Hole Open: 9.5  
Requested Easting: 1427021.0205 Time Change: 0 hours  
Equipment: CME 550X, 4" Augers, Continuous Sampler  
Location Note: \_\_\_\_\_  
Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

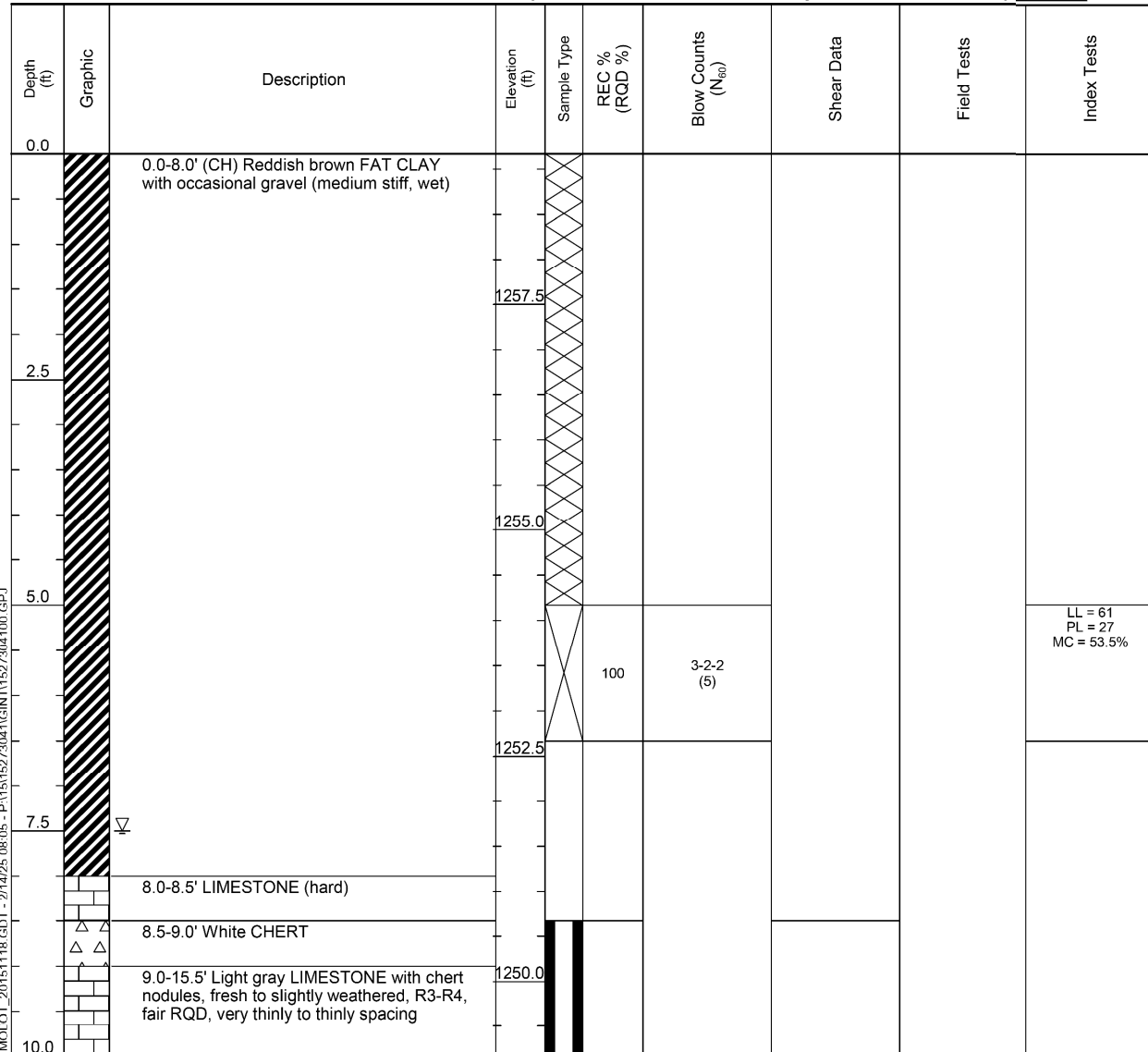
\* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.

Missouri Department of Transportation  
Construction and Materials

**BORING NO. B-33**  
Page 1 of 2

Job No.: J8S0736E  
Design: \_\_\_\_\_  
Bent: \_\_\_\_\_  
Station: 183+91.98  
Offset: 181.42' Rt.  
Elevation: 1259.2  
Requested Station: \_\_\_\_\_  
Requested Offset: \_\_\_\_\_  
Requested Elevation: \_\_\_\_\_  
Drill No.: 401073

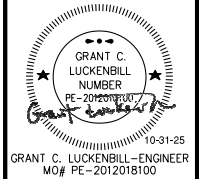
County: Christian Route: CC  
Skew: \_\_\_\_\_ Location: Christian County  
Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
Northing: 450959.518 Date of Work: 01/24/25-01/24/25  
Easting: 1426996.696 Depth to Water: 7.5  
Requested Northing: \_\_\_\_\_ Depth Hole Open: 15.5  
Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
Location Note: \_\_\_\_\_  
Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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Digitally signed by Grant Luckenbill  
Date: 2025.10.31 12:02:47-0500



DATE PREPARED  
10/30/2025  
ROUTE CC STATE MO  
DISTRICT BR SHEET NO. 29  
COUNTY CHRISTIAN  
JOB NO. J8S0736E  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO. A38612

DATE	DESCRIPTION

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

**Olsson**  
1301 BURLINGTON STREET, STE. 100  
NORTH KANSAS CITY, MO 64116  
PHONE: 816.361.1177  
CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

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

Sheet No. 29 of 31

**Missouri Department of Transportation  
Construction and Materials**

**BORING NO. B-33**  
Page 2 of 2

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 183+91.98 Northing: 450959.518 Date of Work: 01/24/25-01/24/25  
 Offset: 181.42' Rt. Easting: 1426996.696 Depth to Water: 7.5  
 Elevation: 1259.2 Requested Northing: \_\_\_\_\_ Depth Hole Open: 15.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N <sub>60</sub> )	Shear Data	Field Tests	Index Tests
10.0		9.0-15.5' Light gray LIMESTONE with chert nodules, fresh to slightly weathered, R3-R4, fair RQD, very thinly to thin spacing (continued)							
			1247.5						
12.5					71 (42)		Cu Test Results UCS = 812 ksf		
			1245.0						
15.0									
		Bottom of borehole at 15.5 feet.							

N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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**Missouri Department of Transportation  
Construction and Materials**

**BORING NO. B-34**  
Page 1 of 1

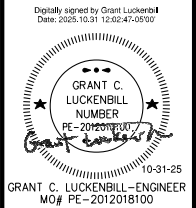
Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 184+99.95 Northing: 450971.1843 Date of Work: 01/23/25-01/23/25  
 Offset: 169.31' Rt. Easting: 1427005.355 Depth to Water: 4.0  
 Elevation: 1255.2 Requested Northing: \_\_\_\_\_ Depth Hole Open: 4.5  
 Requested Station: \_\_\_\_\_ Requested Easting: \_\_\_\_\_ Time Change: 0 hours  
 Requested Offset: \_\_\_\_\_ Equipment: CME 550X, 4" Augers, Continuous Sampler  
 Requested Elevation: \_\_\_\_\_ Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

Depth (ft)	Graphic	Description	Elevation (ft)	Sample Type	REC % (RQD %)	Blow Counts (N <sub>60</sub> )	Shear Data	Field Tests	Index Tests
0.0		0.0-4.0' (CH) Reddish brown FAT CLAY with occasional gravel (medium stiff, moist to wet)	1255.0						
				1252.5					
2.5									
		4.0-4.5' LIMESTONE (hard)							
		Bottom of borehole at 4.5 feet.							

N<sub>60</sub> = (Em/60)Nm N<sub>60</sub> - 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 Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

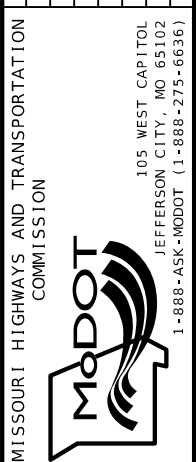
\* Persons using this information are cautioned that the materials shown are determined by the equipment noted and accuracy of the "log of materials" is limited thereby and by judgement of the operator. THIS INFORMATION IS FOR DESIGN PURPOSES ONLY.



DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 30  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.:

PROJECT NO.:  
 BRIDGE NO.: A38612

DATE	DESCRIPTION



**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

**BORING DATA**

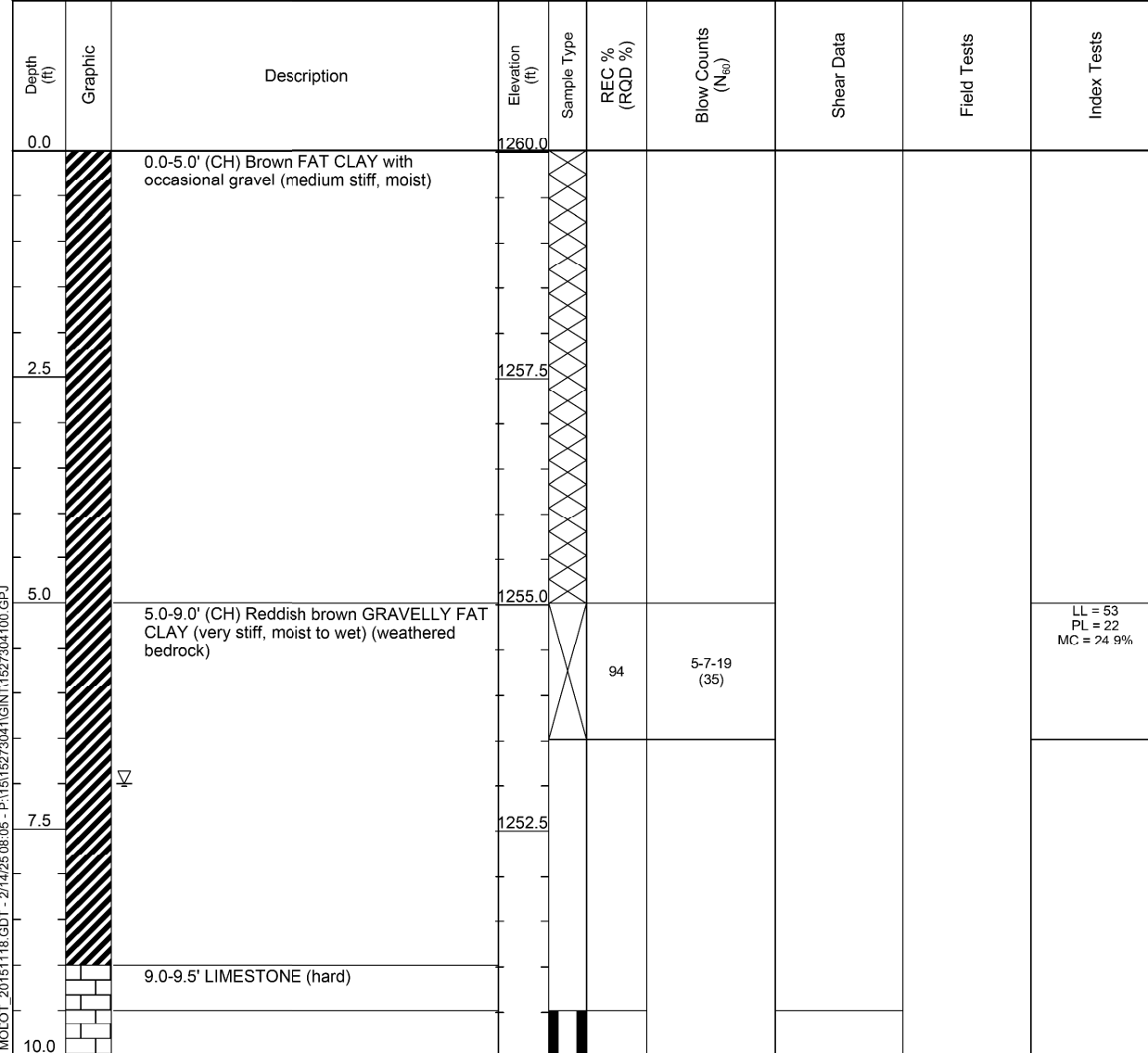
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
 Checked June 2025

Note: This drawing is not to scale. Follow dimensions. Sheet No. 30 of 31

**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-35**  
 Page 1 of 2

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 184+23.78 Northing: 451006.8195 Date of Work: 01/24/25-01/24/25  
 Offset: 132.33' Rt. Easting: 1427031.2364 Depth to Water: 7.0  
 Elevation: 1260.0 Requested Northing: 451006.8195 Depth Hole Open: 14.5  
 Requested Station: 184+23.78 Requested Easting: 1427031.2364 Time Change: 0 hours  
 Requested Offset: 132.33' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
 Requested Elevation: 1260.0 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger

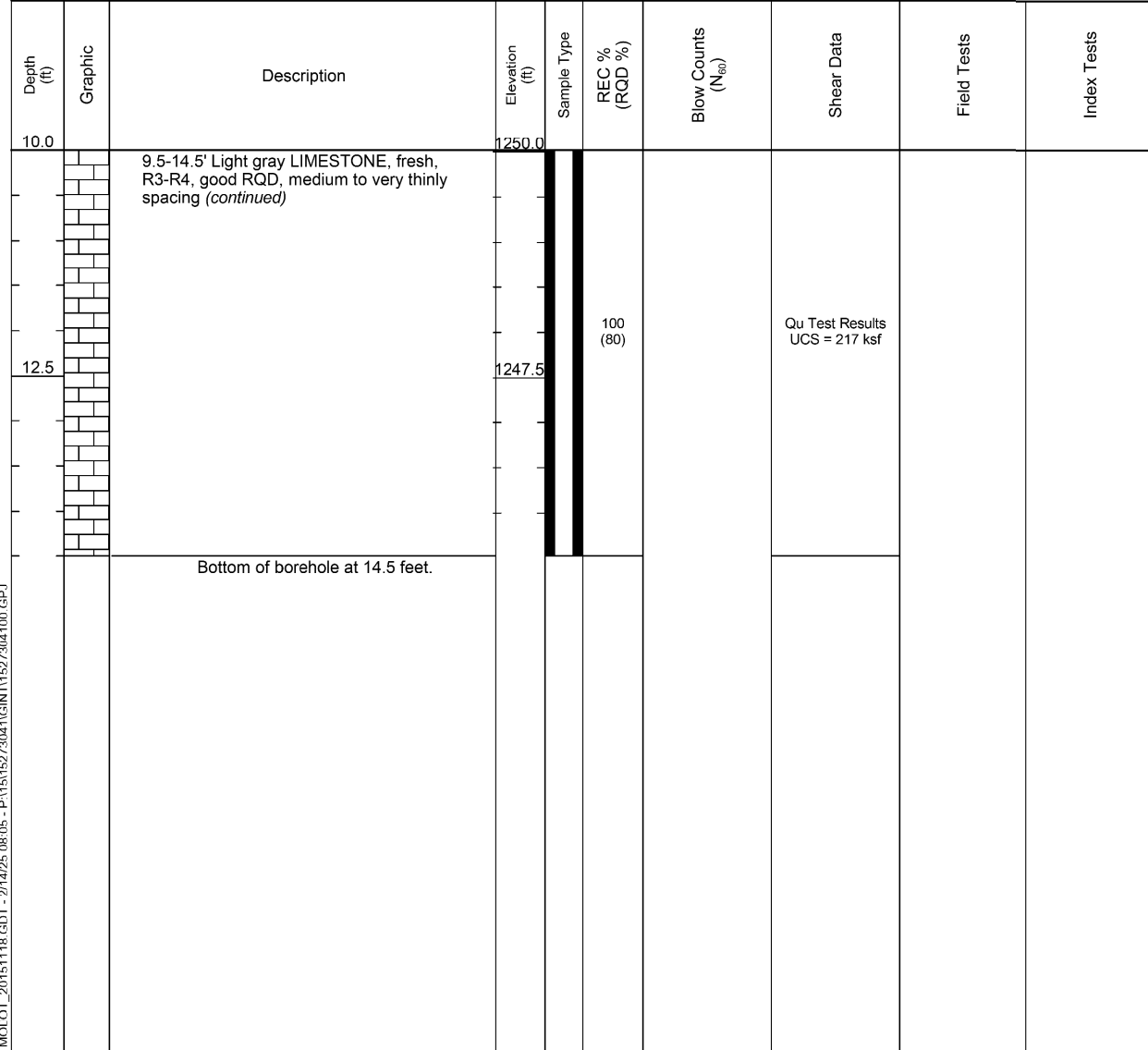


$N_{60} = (Em/60)N_m$   $N_{60}$  - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent;  $N_m$  - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 Coordinate Datum: NAD 83 Coordinate Units: U.S. Survey Feet

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**Missouri Department of Transportation**  
**Construction and Materials**  
**BORING NO. B-35**  
 Page 2 of 2

Job No.: J8S0736E County: Christian Route: CC  
 Design: \_\_\_\_\_ Skew: \_\_\_\_\_ Location: Christian County  
 Bent: \_\_\_\_\_ Logged By: Mark Mathis II (GeoEngineers, Inc.) Operator: Carmen Hunter (OWN, Inc.)  
 Station: 184+23.78 Northing: 451006.8195 Date of Work: 01/24/25-01/24/25  
 Offset: 132.33' Rt. Easting: 1427031.2364 Depth to Water: 7.0  
 Elevation: 1260.0 Requested Northing: 451006.8195 Depth Hole Open: 14.5  
 Requested Station: 184+23.78 Requested Easting: 1427031.2364 Time Change: 0 hours  
 Requested Offset: 132.33' Rt. Equipment: CME 550X, 4" Augers, Continuous Sampler, Split-Spoon Sampler, NQ  
 Requested Elevation: 1260.0 Location Note: \_\_\_\_\_  
 Drill No.: 401073 Hammer Efficiency: 81.3% Drilling Method: Continuous Flight Auger



$N_{60} = (Em/60)N_m$   $N_{60}$  - Corrected N value for standard 60% SPT efficiency; Em - Measured hammer efficiency in percent;  $N_m$  - Observed N-value; (1) = Assumed, (2) = Actual  
 Coordinate System: U.S. State Plane 1983 Coordinate Zone: Missouri Central Coordinate Proj. Factor: \_\_\_\_\_  
 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.

**BORING DATA**

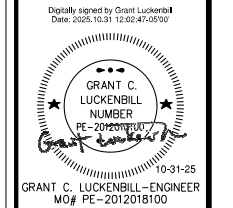
Note: For locations of borings, see Sheet No. 3.

Detailed April 2025  
Checked June 2025

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

Sheet No. 31 of 31

\\oa.ad.oaconsulting.com\fnts-ns1\projects\2023\07001-07500\023-07410\40-Design\Microstation\J8S0736E\plan\_sheets\16 Bridge Sheets\B\_A38612\_031\_J8S0736E\_BORING (19 OF 19).dgn 4:16:48 PM 10/30/2025



Digitally signed by Grant Luckenbill  
 Date: 2025.10.31 12:52:47-0500

DATE PREPARED: 10/30/2025  
 ROUTE: CC STATE: MO  
 DISTRICT: BR SHEET NO.: 31  
 COUNTY: CHRISTIAN  
 JOB NO.: J8S0736E  
 CONTRACT ID.: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 BRIDGE NO.: A38612

DATE	DESCRIPTION

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

**Olsson**  
 1301 BURLINGTON STREET, STE. 100  
 NORTH KANSAS CITY, MO 64116  
 PHONE: 816.361.1177  
 CERTIFICATE OF AUTHORITY NO. 001592

