

DESIGN DESIGNATION

IS 470 AND MO 291

A.A.D.T. - 2024 = 38,250

V = 65 MPH

FUNCTIONAL CLASSIFICATION - INTERSTATE

# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

## PLANS FOR PROPOSED STATE HIGHWAY JACKSON COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET -----	1
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CHRISTOPHER ALAN WEST  
 NUMBER PE-2014017034  
 PROFESSIONAL ENGINEER

DATE PREPARED  
 8/16/2024

ROUTE 470/291 STATE MO  
 DISTRICT KC SHEET NO. 01

COUNTY JACKSON

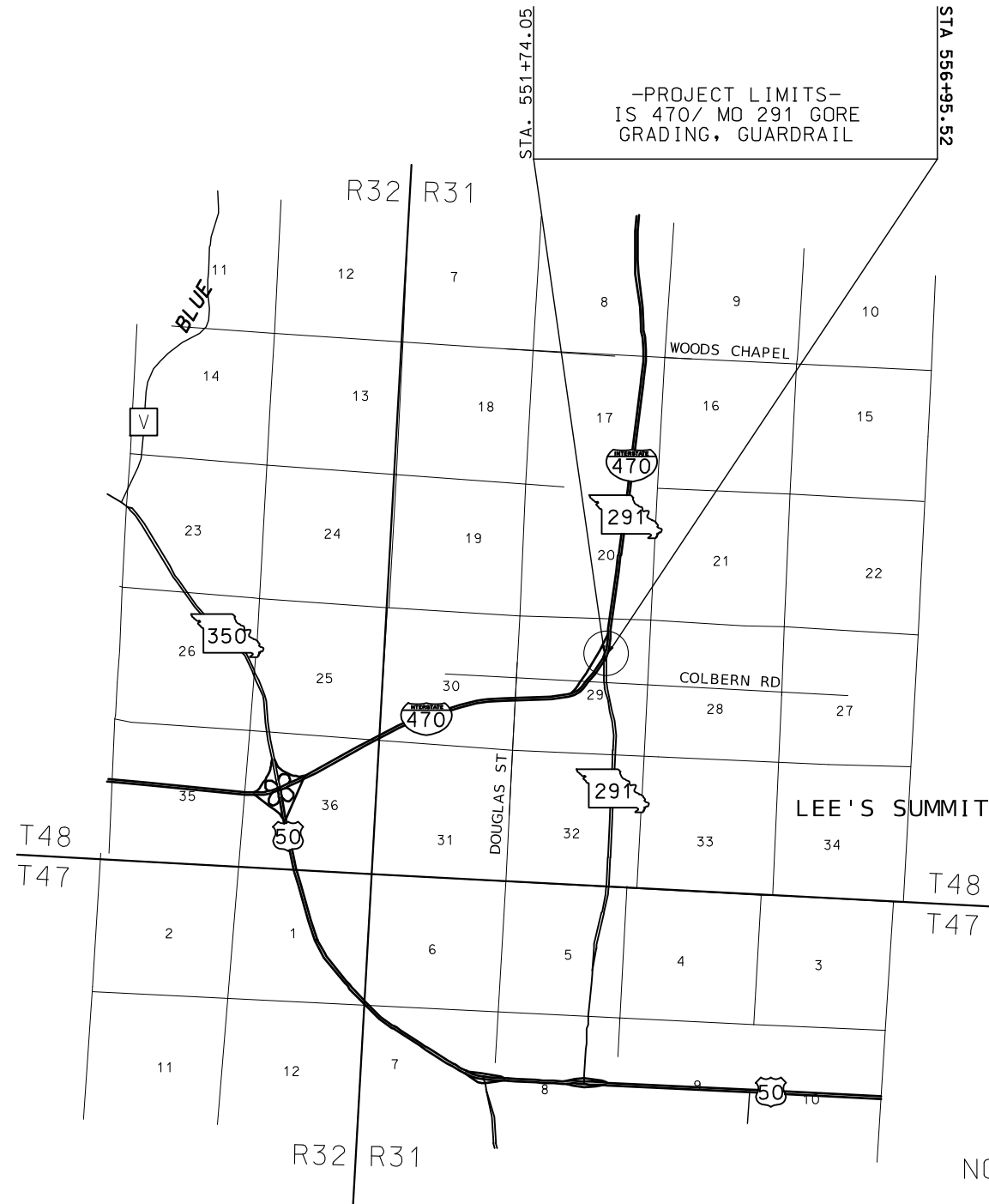
JOB NO. JKU0115

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO RIGHT OF WAY ACQUISITION NEEDED



CONVENTIONAL SYMBOLS (USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
UTILITIES		
FIBER OPTICS	[Symbol]	[Symbol]
OVERHEAD TELEPHONE	[Symbol]	[Symbol]
UNDERGROUND TELEPHONE	[Symbol]	[Symbol]
OVERHEAD POWER	[Symbol]	[Symbol]
UNDERGROUND POWER	[Symbol]	[Symbol]
GAS	[Symbol]	[Symbol]
WATER	[Symbol]	[Symbol]
MANHOLE	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE		
CHAIN LINK	[Symbol]	[Symbol]
WOVEN WIRE	[Symbol]	[Symbol]
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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.

NOT TO SCALE

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA 551+73.63	EB
END OF PROJECT	STA 556+95.52	EB
APPARENT LENGTH	0.010 MILES	
EQUATIONS AND EXCEPTIONS:	NONE	
TOTAL CORRECTIONS	0.000 MILES	
NET LENGTH OF PROJECT	521.89 FEET	
STATE LENGTH	0.10 MILES	
FOR INFORMATION ONLY	ESTIMATE DISTURBED ACRES	
	0.116 ACRES	

DESCRIPTION

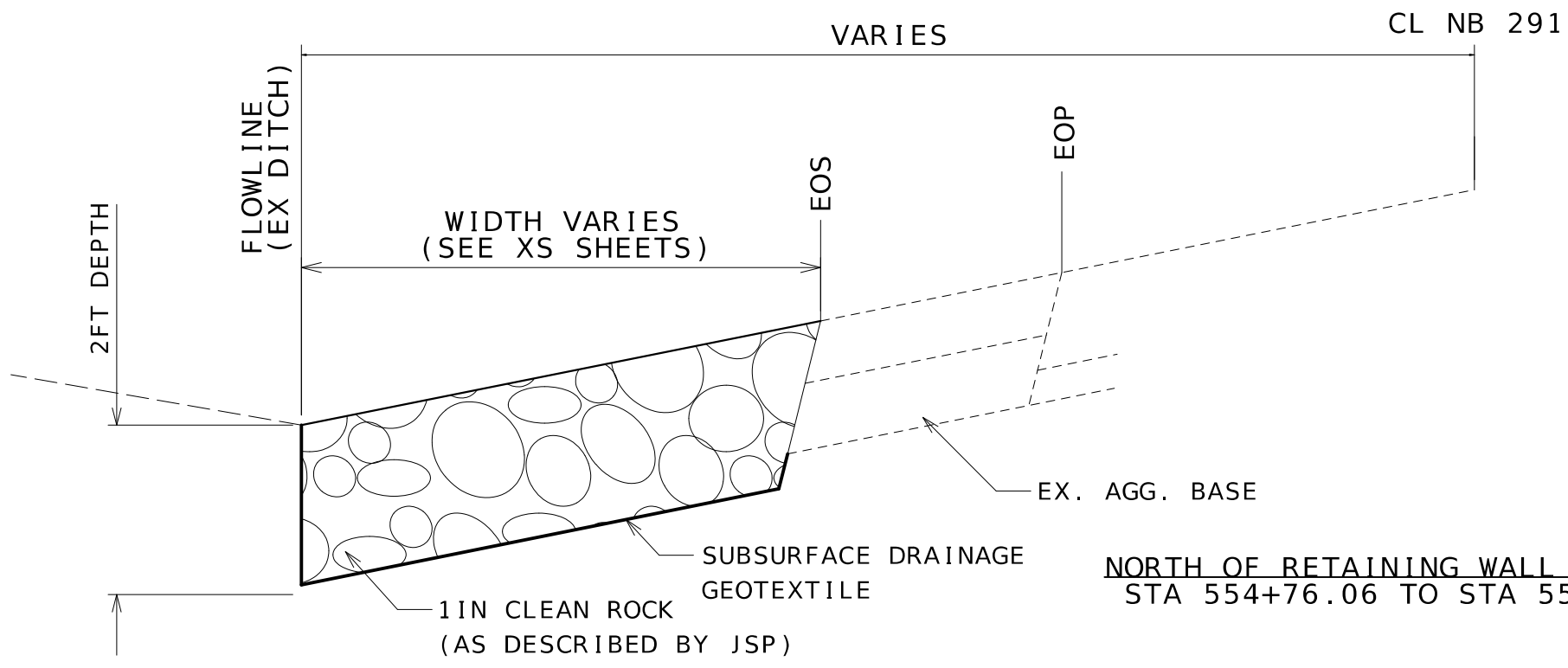
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

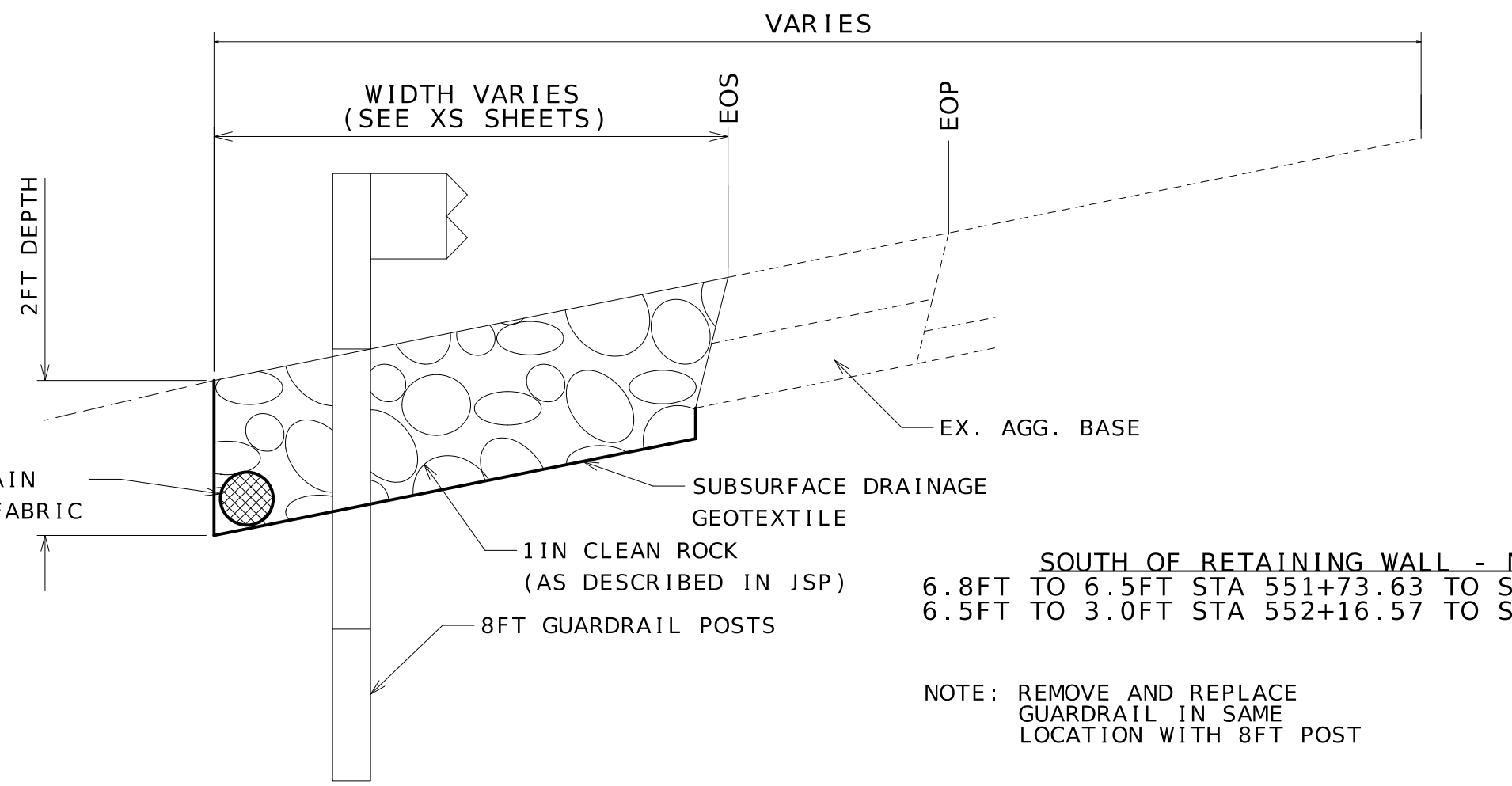


105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)

NOT TO SCALE



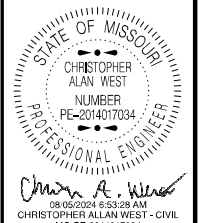
NORTH OF RETAINING WALL - NB 291  
STA 554+76.06 TO STA 556+95.52



SOUTH OF RETAINING WALL - NB 291  
6.8FT TO 6.5FT STA 551+73.63 TO STA 552+16.57  
6.5FT TO 3.0FT STA 552+16.57 TO STA 552+78.63

NOTE: REMOVE AND REPLACE  
GUARDRAIL IN SAME  
LOCATION WITH 8FT POST

TYPICAL SECTION  
SHEET 1 OF 1



DATE PREPARED  
8/2/2024  
ROUTE 470/291 STATE MO  
DISTRICT KC SHEET NO. 2  
COUNTY JACKSON  
JOB NO. KU0115  
CONTRACT ID.  
PROJECT NO.  
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

<b>MOBILIZATION</b>
1 LUMP SUM

<b>CONTRACTOR FURNISHED SURVEYING AND STAKING</b>
1 LUMP SUM

REMOVAL OF IMPROVEMENTS					
ROADWAY	STA	STA	OFF	DESCRIPTION	REMARKS
470/291	551+13	553+29	~17FT LT	GUARDRAIL REMOVAL	END TREATMENT AND GUARDRAIL RUN
				1 LUMP SUM	

EARTHWORK		
STA	CLASS A EXCAVATION (CY)	REMARKS
551+50	0	SOUTH SECTION
552+00	13.022	SOUTH SECTION
552+50	23.286	SOUTH SECTION
553+00	10.264	SOUTH SECTION
<hr/>		
554+75	0.00	NORTH SECTION
555+00	10.01	NORTH SECTION
555+50	48.99	NORTH SECTION
556+00	66.70	NORTH SECTION
556+50	83.11	NORTH SECTION
557+00	45.38	NORTH SECTION
<hr/>		
TOTAL	300.76	
TOTAL	301.00	

NOTE: SEE CROSS SECTIONS FOR DETAILS

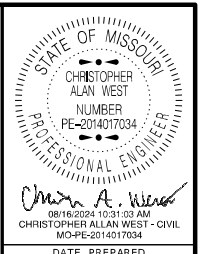
SUBSURFACE DRAINAGE GEOTEXTILE				
STA	STA	AREA (SY)	* AREA (SY)	REMARKS
551+73.63	552+78.63	63.03	86.05	SOUTH SECTION
551+73.63	552+78.63	12.22	12.22	PIPE WRAPPING
554+76.06	556+95.52	498.13	522.1	NORTH SECTION
		TOTAL	620.37	
		PAY TOTAL	621	

\* INCLUDES 2 FOOT VERTICAL MEASUREMENT

PIPE AGGREGATE PAVEMENT EDGE DRAIN			
STA	STA	PIPE (LF)	REMARKS
551+74.63	552+79.63	105	SOUTH SECTION
		TOTAL	105

ROCK FILL			
STA	STA	MISC. 1 INCH CLEAN ROCK FILL (CY)	REMARKS
551+76.63	552+78.63	42	SOUTH SECTION
554+76.06	556+95.52	332	NORTH SECTION
		TOTAL	374

GUARDRAIL							
STA	STA	LOCATION	MGS GUARDRAIL 8FT POST (LF)	MASH TYPE A CRASHWORTHY END TERMINAL (EA)	MGS VERTICAL CONCRETE BARRIER TRANS (EA)	*SHAPING SLOPES CLASS III MODIFIED MATERIAL (100 FT )	REMARKS
551+13	553+29	470/291	162.5	1	1	1.6	REPLACE EXISTING
		TOTAL	163	1	1	2	



DATE PREPARED  
8/16/2024

ROUTE STATE  
470/291 MO

DISTRICT SHEET NO.  
KC 3

COUNTY  
JACKSON

JOB NO.  
JKU0115


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



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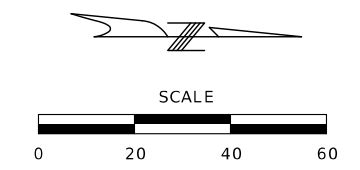
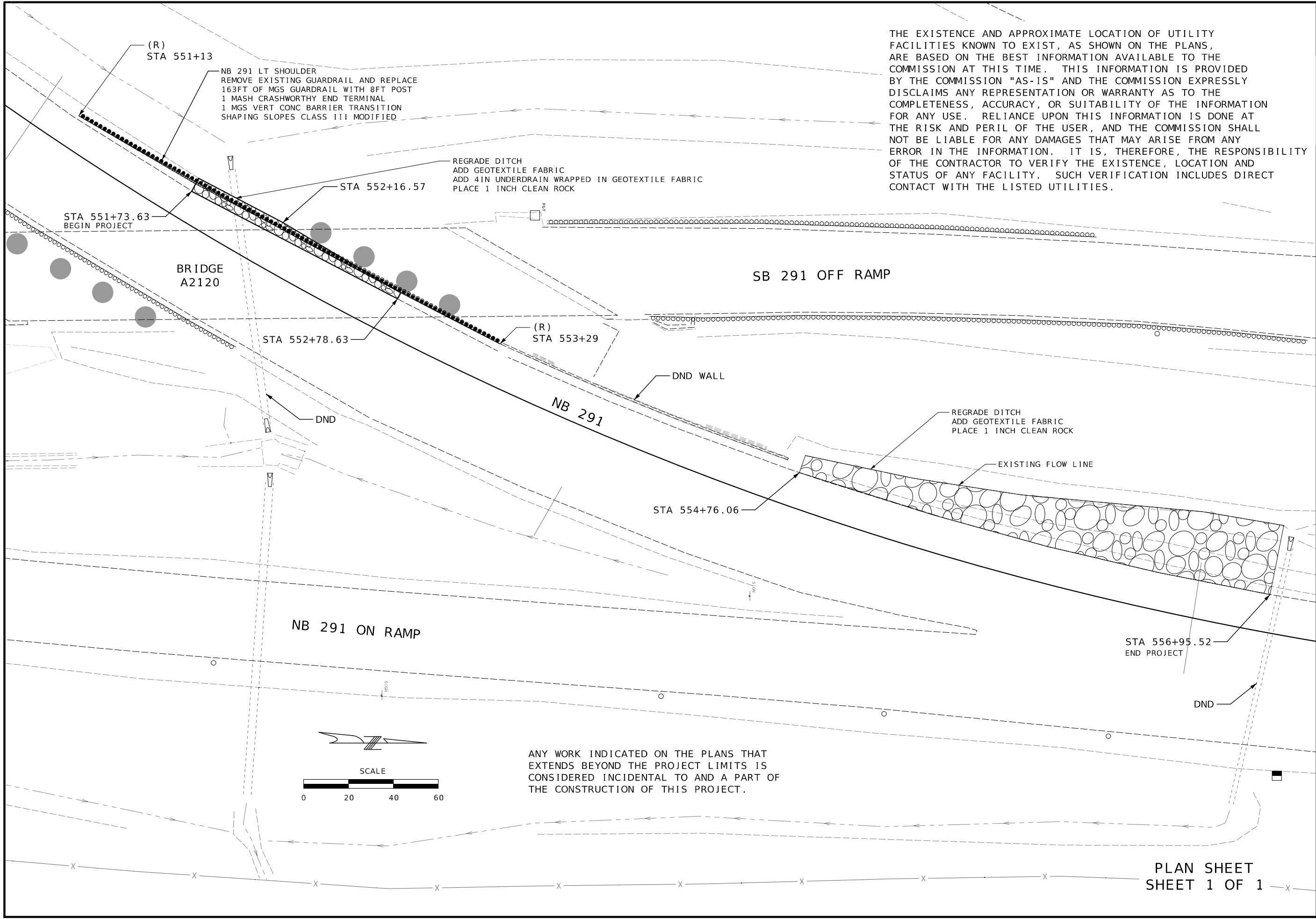


Christopher Alan West  
 08/05/2024 8:59:40 AM  
 CHRISTOPHER ALAN WEST - CIVIL  
 MO-PE-2014017034

DATE PREPARED 8/2/2024	
ROUTE 470/291	STATE MO
DISTRICT KC	SHEET NO. 4
COUNTY JACKSON	
JOB NO. KU0115	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

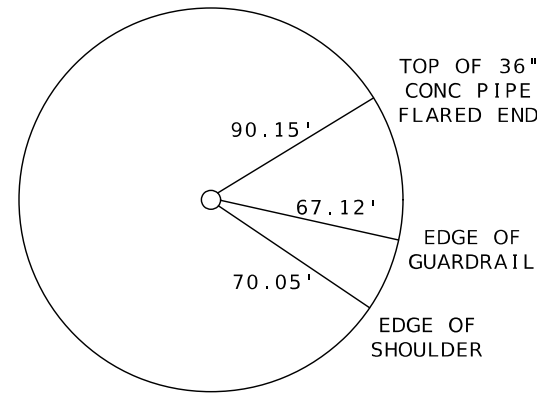
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION  
  
 105 WEST CAPITOL  
 JEFFERSON CITY, MO 65102  
 1-888-ASK-MODOT (1-888-275-6636)



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.



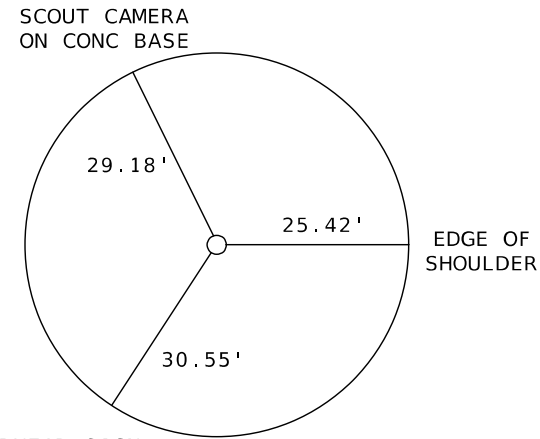
CP#1  
 5/8" REBAR W/ PINK MODOT CAP  
 E=2828270.438  
 N=1013210.734  
 ELEV=974.224



LOCATION: IN MEDIAN OF I-470 NEAR THE SB N291 BRIDGE THAT GOES OVER I-470

MONUMENT IS BURIED .5'+/- BELOW THE GROUND

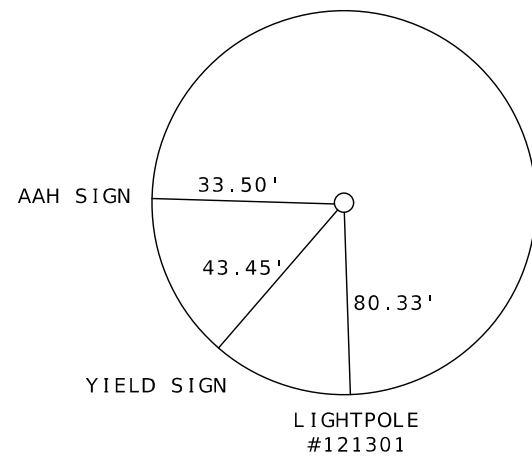
CP#2  
 5/8" REBAR W/ PINK MODOT CAP  
 E=2828607.552  
 N=1014412.652  
 ELEV=974.148



LOCATION: 500'+/- NORTH OF THE I-470 AND N291 INTERCHANGE. IN MEDIAN.

MONUMENT IS BURIED .5'+/- BELOW THE GROUND

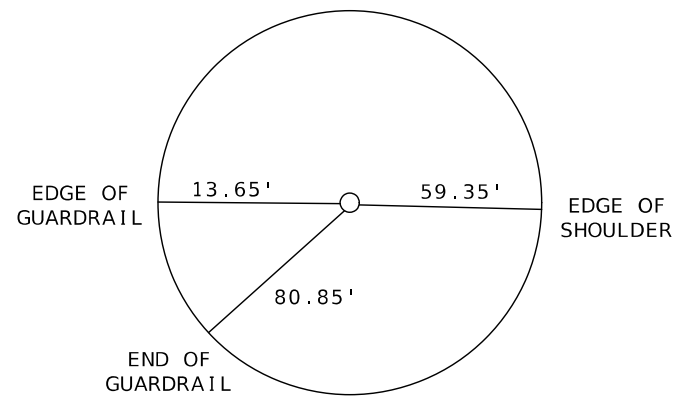
CP#3  
 5/8" REBAR W/ PINK MODOT CAP  
 E=2827981.950  
 N=1012351.274  
 ELEV=1000.938



LOCATION: INTERSECTION OF I-470 AND COLBERN RD.

MONUMENT IS BURIED .5'+/- BELOW THE GROUND

CP#4  
 5/8" REBAR W/ PINK MODOT CAP  
 E=2828441.525  
 N=1012782.931  
 ELEV=994.246



LOCATION: I-470 AND N291 INTERCHANGE

MONUMENT IS BURIED .5'+/- BELOW THE GROUND



DATE PREPARED  
 8/2/2024  
 ROUTE STATE  
 470/291 MO  
 DISTRICT SHEET NO.  
 KC 5  
 COUNTY  
 JACKSON  
 JOB NO.  
 JKU0115  
 CONTRACT ID.  
 PROJECT NO.  
 BRIDGE NO.

DESCRIPTION	DATE

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

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(GROUND)	
HORIZONTAL DATUM	NAD83	
VERTICAL DATUM	NAVD88	
GEOID MODEL	GEOID18	
ELEVATIONS DETERMINED BY	GPS OBSERVATION	
PROJECT PROJECTION FACTOR	1.00009991	

**REFERENCE CONTROL INFORMATION**

COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983	
CONTROL STATION	MO GEOGRAPHIC REFERENCE SYSTEM	
DESIGNATION	Braun 3	
CORS_ID	XX	
PID	JE1870	
LATITUDE	38°57'39.82591"	
LONGITUDE	094°21'35.18197	
NORTHING (M)	310136.3750	
EASTING (M)	862153.3230	
ZONE	WEST	
PROJECT AVERAGE GRID FACTOR	0.99990010	

**EXAMPLE OF PROJECT COORDINATE TO S.P.C.**

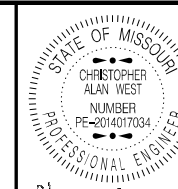
PROJECT NORTHING X AVERAGE GRID FACTOR  
= STATE PLANE NORTHING  
PROJECT EASTING X AVERAGE GRID FACTOR  
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT # \_\_\_\_  
N \_\_\_\_ X \_\_\_\_ = N \_\_\_\_  
E \_\_\_\_ X \_\_\_\_ = E \_\_\_\_

**LINEAR UNIT CONVERSION**

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING						
STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND)			DESCRIPTION
			NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	
<b>ALIGNMENTS</b>						
548+46.790	470_291	0	1,012,961.37	2,828,182.25	974.46	TS
550+13.522	470_291	0	1,013,090.20	2,828,288.09	-	SPI
550+96.787	470_292	0	1,013,159.00	2,828,335.21	971.15	SC
553+83.746	470_293	0	1,013,395.76	2,828,497.36	-	HP I
556+63.207	470_294	0	1,013,676.71	2,828,555.80	968.59	CS
557+46.599	470_295	0	1,013,758.36	2,828,572.78	-	SPI
559+13.202	470_296	0	1,013,923.93	2,828,592.37	970.88	ST



DATE PREPARED  
8/2/2024

ROUTE 470/291 STATE MO

DISTRICT KC SHEET NO. 6

COUNTY JACKSON

JOB NO. JKU0115

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

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DESCRIPTION

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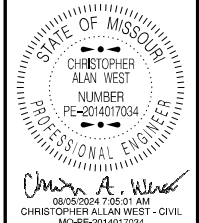
DESCRIPTION

DATE

DESCRIPTION



# SPACING AND TAPER LENGTHS FOR WORK ZONE SIGNS, CHANNELIZERS AND CONCRETE BARRIER



DATE PREPARED <b>8/2/2024</b>	
ROUTE <b>470/291</b>	STATE <b>MO</b>
DISTRICT <b>KC</b>	SHEET NO. <b>7</b>
COUNTY <b>JACKSON</b>	
JOB NO. <b>JKU0115</b>	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

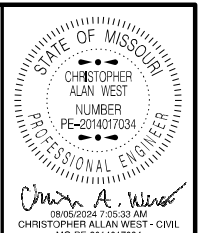
SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'

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

TAPER LENGTHS AND END TREATMENTS FOR CONCRETE BARRIER				
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			END TREATMENT (4)
	10'	11'	12'	
< 40	160'	168'	176'	BARRIER HEIGHT TRANSITION
> 40	160'	168'	176'	APPROVED CRASH CUSHION

TAPER LENGTHS AND SPACING FOR CHANNELIZERS							
PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH (3)			MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT	MAXIMUM CHANNELIZER SPACING	
	10'	11'	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'



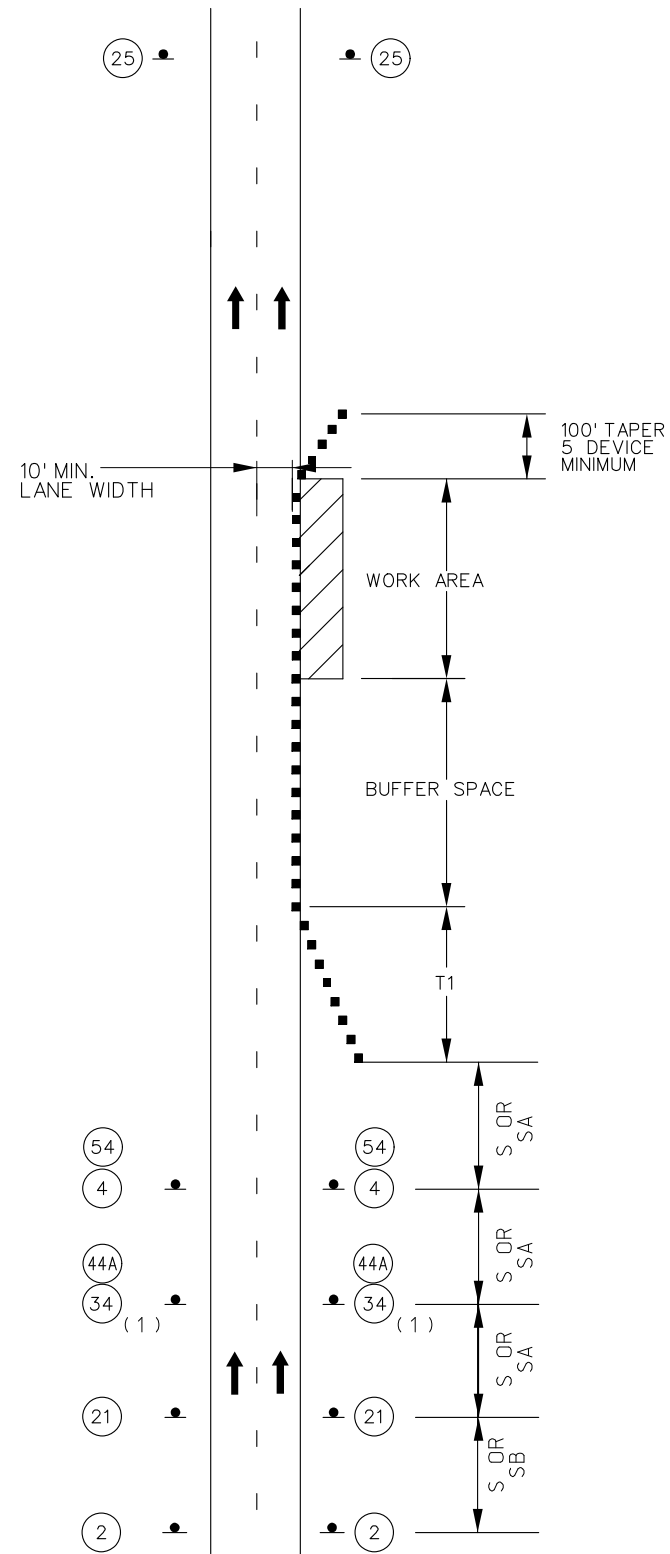


DATE PREPARED  
8/2/2024

ROUTE 470/291 STATE MO  
DISTRICT KC SHEET NO. 8

COUNTY JACKSON  
JOB NO. JKU0115  
CONTRACT ID.

PROJECT NO.  
BRIDGE NO.



MULTI-LANE DIVIDED  
SHOULDER WORK  
MINOR TRAVELWAY ENCROACHMENT

NOTES:

SEE TRAFFIC CONTROL SHEET 1 FOR WORKZONE SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.

SIGN 2 NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN 2 IS ALREADY USED.

THE PROTECTIVE VEHICLE MAY BE OMITTED IF A TAPER AND CHANNELIZING DEVICES ARE USED.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBTSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGEND ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

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

SHADOW AND WORK VEHICLES SHALL DISPLAY HIGH-DENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

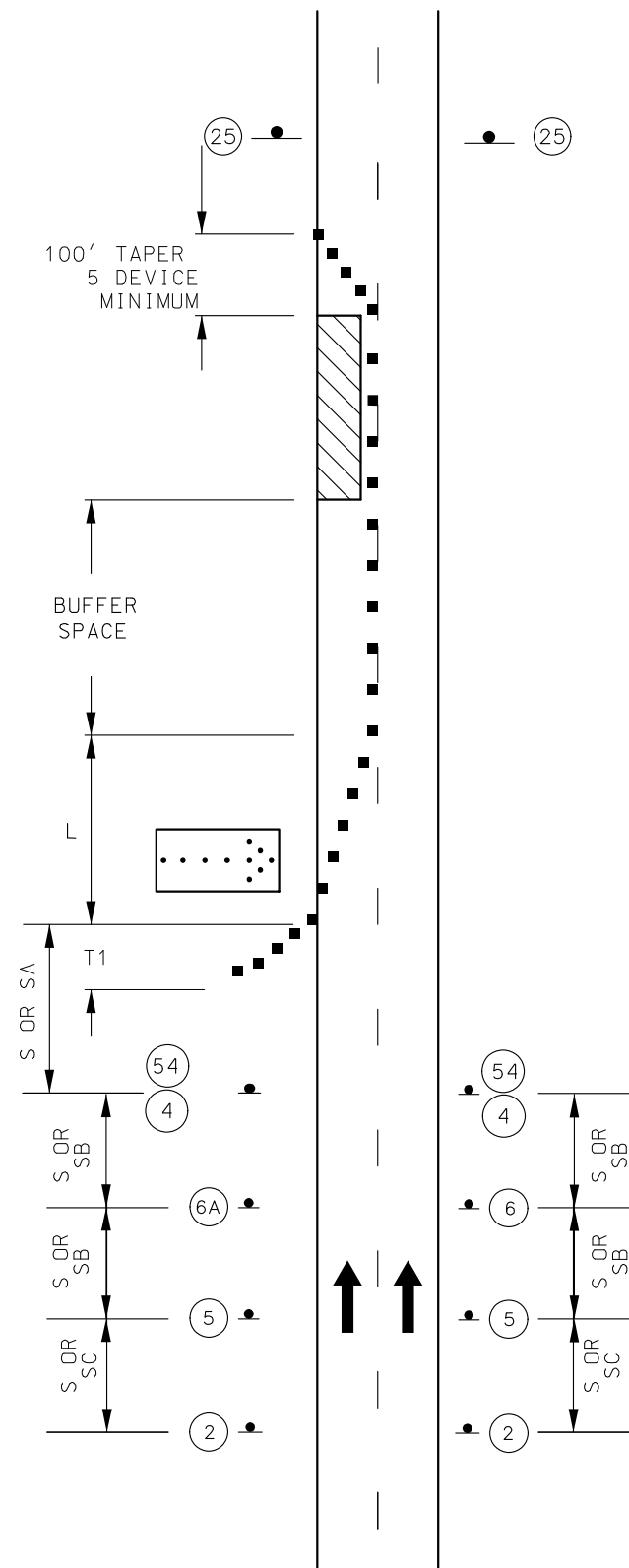
(1). SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

SHOULDER WORK  
MINOR ENCROACHMENT  
TEMPORARY  
TRAFFIC CONTROL  
SHEET 2 OF 4

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TWO-LANE DIVIDED HIGHWAY

NOTES:

- SEE TRAFFIC CONTROL SHEET 1 FOR WORK ZONE SPEED LIMIT GUIDELINES.
- SEE TRAFFIC CONTROL SHEET 1 FOR SIGN SPACING, DEVICE SPACING AND CHANNELIZING TAPER LENGTHS.
- REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.
- TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM CLOSURES.
- THIS INFORMATION ALSO SHALL BE USED WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. IN THIS CASE, THE LEFT LANE CLOSED SIGNS AND THE CORRESPONDING MERGE OR LANE ENDS SIGN SHALL BE SUBSTITUTED.
- WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE ADDITIONAL TTC DEVICES SHALL BE PLACED AS NEEDED.
- AN ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE FREEWAY LANE IS CLOSED, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.
- WARNING LIGHTS WHEN SEQUENTIAL OR WARNING LIGHTS SHOULD BE USED ON NIGHTTIME OPERATIONS.



Christopher Alan West  
08/05/2024 10:18:51 AM  
CHRISTOPHER ALAN WEST - CIVIL  
MO-PE-2014017034

DATE PREPARED  
8/5/2024

ROUTE 470/291 STATE MO  
DISTRICT KC SHEET NO. 9

COUNTY JACKSON

JOB NO. JKU0115

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL  
JEFFERSON CITY, MO 65102  
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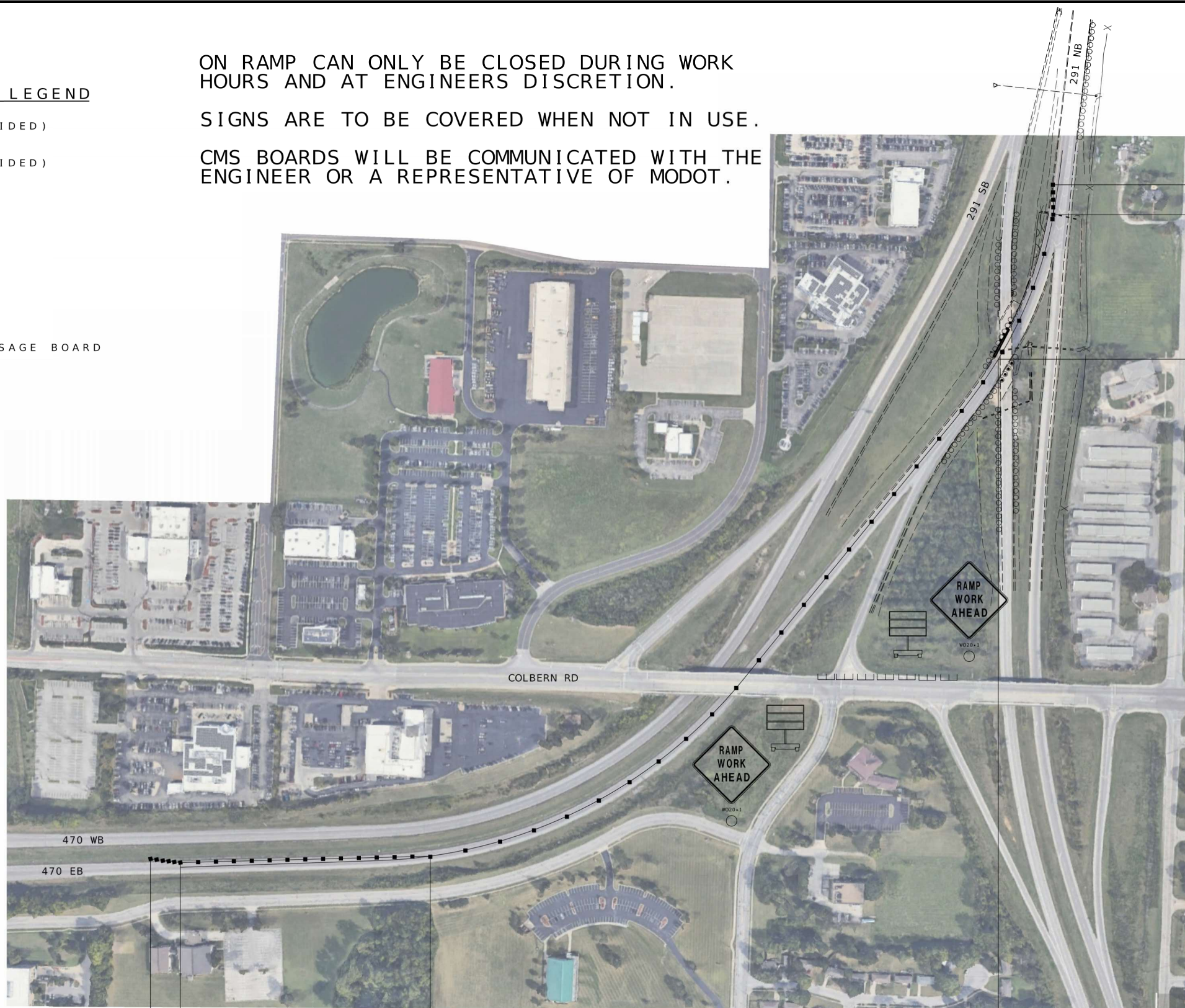
**TRAFFIC CONTROL LEGEND**

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ CONE
- CHANNELIZER
- E BARRICADE
- ▩ CHANGEABLE MESSAGE BOARD

ON RAMP CAN ONLY BE CLOSED DURING WORK HOURS AND AT ENGINEERS DISCRETION.

SIGNS ARE TO BE COVERED WHEN NOT IN USE.

CMS BOARDS WILL BE COMMUNICATED WITH THE ENGINEER OR A REPRESENTATIVE OF MODOT.

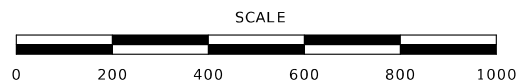


T1 L - TAPER LENGTH

BUFFER SPACE

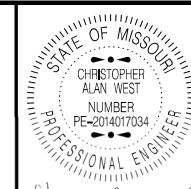
TAPER OUT

WORK AREA



LANE CLOSURE SET UP FOR LEFT LANE  
NOTE: USE TCP SHEET 3 OF 4 FOR SIGNAGE

TRAFFIC CONTROL  
SHEET 4 OF 4



DATE PREPARED  
8/2/2024

ROUTE STATE  
470/291 MO

DISTRICT SHEET NO.  
KC 10

COUNTY  
JACKSON

JOB NO.  
JKU0115

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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