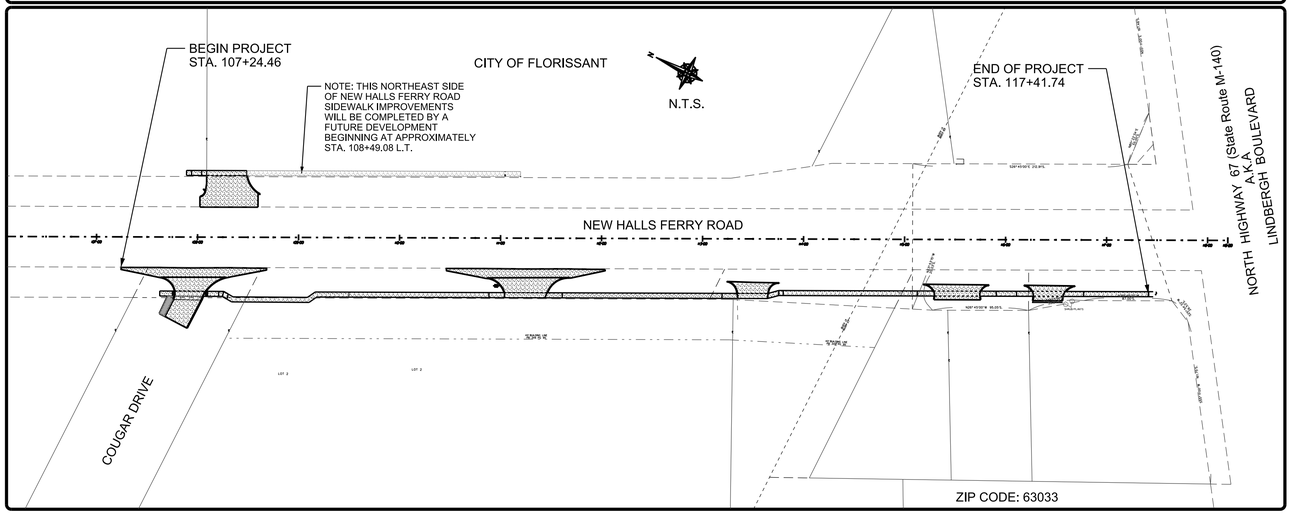
CONSTRUCTION PLANS
NEW HALLS FERRY ROAD SIDEWALK
ST. LOUIS COUNTY PROJECT NO. AR-1857
FEDERAL PROJECT NO. TAP-9901(685)

GENERAL LEGEND

DESCRIPTION	SYMBOLOGY
RIGHT-OF-WAY NEW	
RIGHT-OF-WAY EXISTING	
PROPERTY LINE	
UNDERGROUND UTILITY (TYPE SPECIFIED) T-TELEPHONE/CATV G-GAS W-WATER E-ELECTRIC	
CONSTRUCTION LIMITS	
TREE OR SHRUB (DESIGNATE DIA. & TYPE)	
TREE/VEGETATION LINE	
FENCE (DESIGNATE TYPE)	
GUARDRAIL	
RAILROAD	
SIGN	
PERMANENT DRAINAGE EASEMENT	P.D.E.
PERMANENT SIDEWALK EASEMENT	P.S.E.
TEMPORARY SLOPE AND CONSTRUCTION LICENSE	T.S.C.L.
PERMANENT TRAFFIC SIGNAL EASEMENT	P.T.S.E.
PERMANENT FOOTING EASEMENT	P.F.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY EASEMENT	P.R.I.M.U.E.
PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE AND UTILITY SIDEWALK AND SEWER EASEMENT	P.R.I.M.U.S.S.E.
PERMANENT RETAINING WALL EASEMENT	P.R.W.E.
TO BE REMOVED	(T,B,R,)
TO BE ABANDONED	(T,B,A,)
USE IN PLACE	(U,),P,)
TO BE REMOVED AND REPLACED	(T,B,R,&R,)
TO BE REMOVED AND REPLACED BY OTHERS	(T,B,R,&R,B,O,)
ADJUST TO GRADE	(A,T,G,)
ADJUST TO GRADE BY OTHERS	(A,T,G,B,O,)
TO BE ABANDONED AND FILLED	(T,B,A,&F,)

PROJECT LIMITS



INDEX OF SHEETS

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	STANDARD TRAFFIC CONTROL DETAILS (7 SHEETS NOT NUMBERED)

PROJECT SPECIFIC INFORMATION

St. Louis County Benchmarks:
(Add 0.35 feet to project elevation to relate project to NGVD29.)

4322 NAVD88(SLC2011a) Elev = 547.09 FtUS
Cut "L" on the southwest corner of the raised concrete base for metal traffic signal control box situated in grassy area several feet east of the curb at the northern end of the right turn lane from westbound Lindbergh Boulevard onto northbound New Halls Ferry Road, and generally west of a Mobil gas station addressed as #3125 N. Highway 67 Street (also known as North Lindbergh Boulevard); roughly 65 feet south of the center of access drive from New Halls Ferry Road to the Mobil gas station, 41 feet east of the center of a median island in New Halls Ferry Road, and 100 feet more or less north of the centerline of Lindbergh Boulevard.

4337 NAVD88(SLC2011a) Elev = 524.02 FtUS
"U" on the top east side of round concrete base for traffic signal mast situated southwest of New Halls Ferry Road supporting a signal arm controlling traffic southwest bound from New Castle Drive onto New Halls Ferry Road, and situated southeast of the marked crosswalk extending across New Halls Ferry Road from the sidewalk along the northwest side of said New Castle Drive.

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION:	URBAN MINOR ARTERIAL
DESIGN YEAR:	2024
CURRENT ADT (YEAR):	20,200 (2022)
DESIGN ADT (YEAR):	30,700 (2042)
DIRECTIONAL DISTRIBUTION (D) =	N/A
TRUCK PERCENTAGE (T) =	N/A
DESIGN SPEED (V) =	35 MPH
POSTED SPEED (V) =	35 MPH

STORMWATER MANAGEMENT NOTE:
DISTURBED AREA= 0.44 ACRES
DIFFERENTIAL RUNOFF=0.28 CFS
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITEMAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTRUBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.)

LENGTH OF PROJECT

NEW HALLS FERRY ROAD

END OF PROJECT	STA.	117+41.74	
BEGINNING OF PROJECT	STA.	107+24.46	
APPARENT LENGTH		1017	FEET
EQUATIONS AND EXCEPTIONS		N/A	FEET
TOTAL CORRECTIONS		N/A	FEET
NET LENGTH OF PROJECT		1017	FEET
STATE LENGTH		0.19	MILES
FEDERAL LENGTH		0.19	MILES

MSD CERTIFICATION

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. SINCE THE WYE LOCATIONS HAVE BEEN PLOTTED FROM INFORMATION PROVIDED BY THE SEWER CONTRACTOR OR OTHER SOURCES, I DISCLAIM ANY RESPONSIBILITY FOR THAT SPECIFIC INFORMATION.

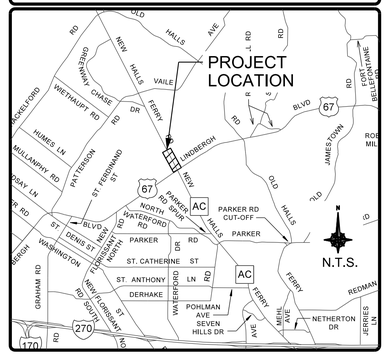
ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

SIGNED
P.E.

DATE

IT SHOULD BE UNDERSTOOD THAT THIS SIGNATURE AND SEAL APPLY ONLY TO THE AFOREMENTIONED FINAL MEASUREMENTS

LOCATOR MAP



PREPARED BY:

DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
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JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

ST. LOUIS COUNTY, MISSOURI
DEPARTMENT OF TRANSPORTATION/PUBLIC WORKS
DESIGN DIVISION
1050 N. LINDBERGH BLVD
ST. LOUIS, MISSOURI 63132

STANDARD SPECIFICATIONS

UNLESS OTHERWISE NOTED, ALL WORK ON THIS PROJECT SHALL BE COVERED BY THE ST. LOUIS COUNTY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2026, AND BY APPLICABLE ST. LOUIS COUNTY STANDARD DRAWINGS DATED JUNE 1, 2024.

UTILITY NOTE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS: AND, THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID THERETO.

M.S.D. P-NUMBER: 25MSD-00243

M.S.D. BASE MAP: 07H4

REVIEW ENGINEER: Michael P. Ohlemeyer, P.E.

APPROVAL DATE: April 13, 2026

APPROVED: Joseph Julissa for SLS
Stephanie Leon Streeter, P.E.
Director

DATE: April 9, 2026

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

REVISIONS

REV	DATE	BY	APP	DESCRIPTION

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 4/9/26

NEW HALLS FERRY ROAD SIDEWALK

TITLE & INDEX SHEET

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 1 OF 27

SUB-TOTALS	TOTAL	UNIT	ITEM NO.	DESCRIPTION	REMARKS
1.0	1.0	L.S.	201-20.10	Clearing and Grubbing	
1.0	1.0	L.S.	202-20.10	Removal of Improvements	Sawcutting Incidental
320.5	320.5	C.Y.	203-10.00	Class "A" Excavation	
1.0	1.0	L.S.	203-10.30	Land Disturbance Permits	
1444.4	1444.4	S.Y.	304-05.04	Type 5 Aggregate Base (4" Thick)	
1.7	1.8	Ton	405-30.10	Type "C" Bituminous Concrete (Pavement)	Includes 5% Extra For Contingencies; 2.16 Ton/C.Y.
5.9	6.2	Ton	405-30.30	Type "X" Bituminous Concrete (Base)	Includes 5% Extra For Contingencies; 2.16 Ton/C.Y.
10.0	20.0	Gal.	407-10.27	Tack-Emulsified Asphalt (SS-1H)	Includes 5% Extra For Contingencies; 0.10 Gals/S.Y.
906.9	906.9	S.Y.	608-50.07	Paved Driveway Approach (7")	Sawcutting Incidental
70.8	70.8	S.Y.	611-50.10	Light Stone Revetment	
1.0	1.0	L.S.	612-30.10	Standard Traffic Control Devices	
2.0	2.0	Each	612-60.92	Arrow Panel, Type "B" (Noiseless), Rental	
1.0	1.0	Each	612-70.20	Changeable Message Board (Noiseless), Rental	
1.0	1.0	L.S.	619-00.00	Mobilization	
1246.0	1371.0	S.Y.	803-10.00	Sodding	Includes 10% Extra For Contingencies
1.0	1.0	L.S.	806-00.00	Erosion Control Measures (Sites less than 1 acre)	
1.0	1.0	L.S.	806-45.00	Inlet Protection	
				Pedestrian and Bicycle Items	
436.4	436.4	S.Y.	608-60.04	Concrete Sidewalk (4" Thick)	
2.0	2.0	Each	608-60.08	Concrete Sidewalk, Curb Ramp	
27.8	28.0	S.Y.	608-60.17	Concrete Sidewalk (7" Thick)	

EARTHWORK SUMMARY (C.Y.)

	CUT	FILL	NET
Mainline-NHF	320.5	37.9	-282.6
			0.0
			0.0
			0.0
	320.5	37.9	282.6

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
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(314) 615-8543

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

SUMMARY OF QUANTITIES (SHEET 1 OF 3)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 2 OF 27

304-05.04 TYPE 5 AGGREGATE BASE (4" THICK)

LOCATION	STA.	STA.	SIDE	QUANTITY (S.Y.)	REMARKS
NEW HALLS FERRY RD	107+62.73	107+77.73	RT.	8.3	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	107+92.93		RT.	280.0	Commercial Entrance
NEW HALLS FERRY RD	107+88.88	108+08.85	LT.	11.1	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	108+28.90		LT.	194.1	Commercial Entrance
NEW HALLS FERRY RD	108+08.14	111+04.10	RT.	167.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	111+24.34		RT.	237.9	Commercial Entrance
NEW HALLS FERRY RD	111+46.24	113+34.49	RT.	105.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	113+50.00		RT.	59.5	Commercial Entrance
NEW HALLS FERRY RD	113+64.98	115+28.77	RT.	91.5	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	115+52.38		RT.	80.2	Commercial Entrance
NEW HALLS FERRY RD	115+75.38	116+26.56	RT.	7.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	116+41.86		RT.	55.3	Commercial Entrance
NEW HALLS FERRY RD	116+59.34	117+41.74	RT.	46.6	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD			RT./LT.	86.9	Curb
NEW HALLS FERRY RD	107+70.44	107+76.97	RT.	14.1	Asphalt Shoulder
	TOTAL:			**1444.4**	

405-30.10 TYPE C BITUMINOUS CONCRETE (PAVEMENT)

LOCATION	STA.	STA.	SIDE	QUANTITY (S.Y.)	(Ton)	REMARKS
NEW HALLS FERRY RD	107+70.43	107+76.97	RT.	14.1	1.7	(2") Asphalt Shoulder
	TOTAL:				**1.7**	

405-30.30 TYPE X BITUMINOUS CONCRETE (BASE)

LOCATION	STA.	STA.	SIDE	QUANTITY (S.Y.)	(Ton)	REMARKS
NEW HALLS FERRY RD	107+70.43	107+76.97	RT.	14.1	5.9	(7") Asphalt Shoulder
	TOTAL:				**5.9**	

407-10.27 TACK-EMULSIFIED ASPHALT (SS-1H)

LOCATION	STA.	STA.	SIDE	(S.Y.)	QUANTITY (Gal)	REMARKS
NEW HALLS FERRY RD	107+70.43	107+76.97	RT.	14.1	10.0	Asphalt Shoulder
	SUBTOTAL:				10.0	
	TOTAL:				**10.0**	

608-50.07 PAVED DRIVEWAY APPROACH (7")

LOCATION	STA.	STA.	SIDE	(S.Y.)	REMARKS
NEW HALLS FERRY RD	107+92.93		RT.	280.0	Commercial Entrance
NEW HALLS FERRY RD	108+28.90		LT.	194.1	Commercial Entrance
NEW HALLS FERRY RD	111+24.34		RT.	237.9	Commercial Entrance
NEW HALLS FERRY RD	113+50.00		RT.	59.5	Commercial Entrance
NEW HALLS FERRY RD	115+52.38		RT.	80.2	Commercial Entrance
NEW HALLS FERRY RD	116+41.86		RT.	55.3	Commercial Entrance
	TOTAL:			**906.9**	

608-60.04 CONCRETE SIDEWALK (4" THICK)

LOCATION	STA.	STA.	SIDE	(S.Y.)	REMARKS
NEW HALLS FERRY RD	107+62.73	107+77.73	RT.	8.3	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	107+88.88	108+08.85	LT.	11.1	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	108+08.14	111+04.10	RT.	167.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	111+46.24	113+34.49	RT.	105.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	113+64.98	115+28.77	RT.	91.5	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	115+75.38	116+26.56	RT.	7.0	Concrete Sidewalk (4" Thick)
NEW HALLS FERRY RD	116+59.34	117+41.74	RT.	46.6	Concrete Sidewalk (4" Thick)
	TOTAL:			**436.4**	

608-60.08 CONCRETE SIDEWALK, CURB RAMP

LOCATION	STA.	STA.	SIDE	(EA.)	REMARKS
NEW HALLS FERRY RD	107+77.73		RT.	1.0	Curb Ramp
NEW HALLS FERRY RD	108+08.14		RT.	1.0	Curb Ramp
	TOTAL:			**2.0**	

608-60.17 CONCRETE SIDEWALK (7" THICK)

LOCATION	STA.	STA.	SIDE	QUANTITY (S.Y.)	REMARKS
NEW HALLS FERRY RD	108+28.90		LT.	5.6	Sidewalk adjacent to entrance
NEW HALLS FERRY RD	111+24.34		RT.	5.6	Sidewalk adjacent to entrance
NEW HALLS FERRY RD	113+50.00		RT.	5.6	Sidewalk adjacent to entrance
NEW HALLS FERRY RD	115+52.38		RT.	5.6	Sidewalk adjacent to entrance
NEW HALLS FERRY RD	116+41.86		RT.	5.6	Sidewalk adjacent to entrance
	TOTAL:			**27.8**	

611-50.10 LIGHT STONE REVETMENT

LOCATION	STA.	STA.	SIDE	S.Y.	REMARKS
NEW HALLS FERRY RD	107+39.64	107+69.90	RT.	18.3	
NEW HALLS FERRY RD	108+32.51	108+75.00	RT.	52.5	
	TOTAL:			**70.8**	

612-60.92 ARROW PANEL, TYPE "B" (NOISELESS), RENTAL

LOCATION	STA.	STA.	SIDE	EACH	REMARKS
NEW HALLS FERRY RD			LT./RT.	1.0	
NEW HALLS FERRY RD			LT./RT.	1.0	
	TOTAL:			**2.0**	

612-70.20 CHANGEABLE MESSAGE BOARD (NOISELESS), RENTAL

LOCATION	STA.	STA.	SIDE	EACH	REMARKS
NEW HALLS FERRY RD			LT./RT.	1.0	
	TOTAL:			**1.0**	

803-10.00 SODDING

LOCATION	STA.	STA.	SIDE	S.Y.	REMARKS
NEW HALLS FERRY RD	107+62.73	107+77.73	RT.	28	
NEW HALLS FERRY RD	107+88.88	108+08.85	LT.	22	
NEW HALLS FERRY RD	108+08.14	111+04.10	RT.	634	
NEW HALLS FERRY RD	111+46.24	113+34.49	RT.	248	
NEW HALLS FERRY RD	113+64.98	115+28.77	RT.	162	
NEW HALLS FERRY RD	115+75.38	116+26.56	RT.	41	
NEW HALLS FERRY RD	116+59.34	117+41.74	RT.	111	
	TOTAL:			**1246**	

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SUMMARY OF QUANTITIES (SHEET 2 OF 3)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 3 OF 27

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM	DESCRIPTION
WARNING SIGNS								
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00						BE PREPARED TO STOP
WO3-5	48X48	16.00						SPEED LIMIT AHEAD
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
WO4-1aL	48X48	16.00	2	32.00				MERGE (LEFT)
WO4-1aR	48X48	16.00						MERGE (RIGHT)
WO5-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00						ONE LANE BRIDGE
WO5-5	48X48	16.00						NARROW LANES
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00						BUMP
WO8-2	48X48	16.00						DIP
WO8-3	48X48	16.00						PAVEMENT ENDS
WO8-4	48X48	16.00						SOFT SHOULDER
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00						TRUCK CROSSING
WO8-6c	48X48	16.00						TRUCK ENTRANCE
WO8-7	36X36	9.00						LOOSE GRAVEL
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL
WO8-9	48X48	16.00						LOW SHOULDER
WO8-11	48X48	16.00						UNEVEN LANES
WO8-12	48X48	16.00						NO CENTER LINE
WO8-15	48X48	16.00						GROOVED PAVEMENT
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
WO12-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00						XXX FEET (PLAQUE)
WO16-3	30X24	5.00						X MILE (PLAQUE)
WO20-1	48X48	16.00	2	32.00				ROAD/BRIDGE/RAMP 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	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00	2	32.00				RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	2	32.00				FLAGGER (SYMBOL)
WO21-2	36X36	9.00						FRESH OIL
WO21-5	48X48	16.00	1	16.00				SHOULDER WORK / SHOULDER WORK AHEAD
WO22-1	48X48	16.00						BLASTING ZONE AHEAD
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50						END BLASTING ZONE
GO22-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

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

616-10.05 CONSTRUCTION SIGNS	**TOTAL**	202
616-10.10 RELOCATED SIGNS	**TOTAL**	**

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-10.20		MOVEABLE BARRICADES WITH MODEL "B" AMBER FLASHERS (2 EACH PER BARRICADE)
612-10.30		MOVEABLE BARRICADES (STANDARD)
612-10.40		PERMANENT BARRICADES
612-30.50		OBJECT MARKERS
612-40.30		DETOUR LIGHTING
612-60.10		ARROW PANEL, TYPE "A" (NOISELESS), NON-RETURNABLE
612-60.20		ARROW PANEL, TYPE "B" (NOISELESS), NON-RETURNABLE
612-60.40		SOLAR ASSISTED ARROW BOARD (TRAILER MOUNTED)
612-60.91		ARROW PANEL, TYPE "A" (NOISELESS), RENTAL
612-60.92	2* EA	ARROW PANEL, TYPE "B" (NOISELESS), RENTAL
612-70.10		PORTABLE CHANGEABLE MESSAGE SIGN, NON-RETURNABLE
612-70.20	1*EA	CHANGEABLE MESSAGE BOARD (NOISELESS), RENTAL
612-99.02		FLEXIBLE DELINEATOR POST
616-10.09		FLAG ASSEMBLY
616-10.25	72	CHANNELIZER (TRIM LINE)
616-10.33		DIRECTION INDICATOR BARICADE
617-10.90		TEMPORARY CONCRETE MEDIAN BARRIER, TYPE "A" (INCLUDES END SECTIONS)
617-10.95		RELOCATE TEMPORARY TRAFFIC BARRIER
617-20.90		TEMPORARY CONCRETE MEDIAN BARRIER, TYPE "B" (INCLUDES END SECTIONS)
617-40.00		TEMPORARY CONCRETE MEDIAN BARRIER, TYPE "F"
617.40.10		TEMPORARY CONCRETE MEDIAN BARRIER, TYPE "F", END SECTION
617-50.95		SAND FILLED IMPACT ATTENUATOR
617-50.96		REPLACEMENT SAND BARREL
620.99.75		REMOVAL OF PAVEMENT STRIPING, PAINT
620-99.80		REMOVAL OF PAVEMENT MARKINGS, PAINT
620-99.85		REMOVAL OF PAVEMENT STRIPING, THERMOPLASTIC
620-99.90		REMOVAL OF PAVEMENT MARKINGS, THERMOPLASTIC
621-10.00		TEMPORARY PAVEMENT STRIPING, PAINT (INCLUDES REMOVAL IF NECESSARY)
621-10.90		TEMPORARY LANE MARKING
621-11.00		TEMPORARY PAVEMENT STRIPING, TAPE (INCLUDES REMOVAL)
622-10.00		TEMPORARY PAVEMENT MARKINGS, PAINT (INCLUDES REMOVAL IF NECESSARY)
622-10.01		TEMPORARY PAVEMENT MARKINGS, TAPE (INCLUDES REMOVAL)

* ITEMS NOT INCLUDED IN LINE NO. 612-30.10 STANDARD TRAFFIC CONTROL DEVICES (LUMP SUM)

** NO DIRECT PAY FOR RELOCATION OF TRAFFIC CONTROL SIGNS

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

REVISIONS

REV	DATE	BY	APP	DESCRIPTION

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8843

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

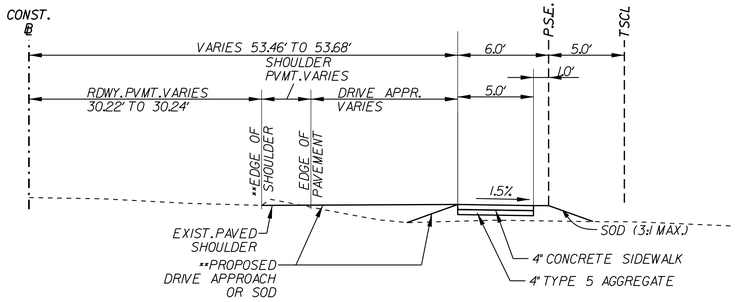
TEMPORARY TRAFFIC CONTROL

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

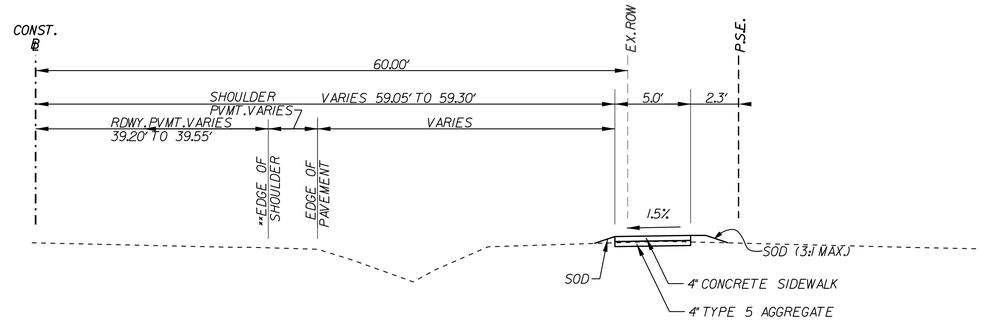
SHEET SEQUENCE: 4 OF 27



TYPICAL SECTION - NEW HALLS FERRY ROAD (WEST SIDE)

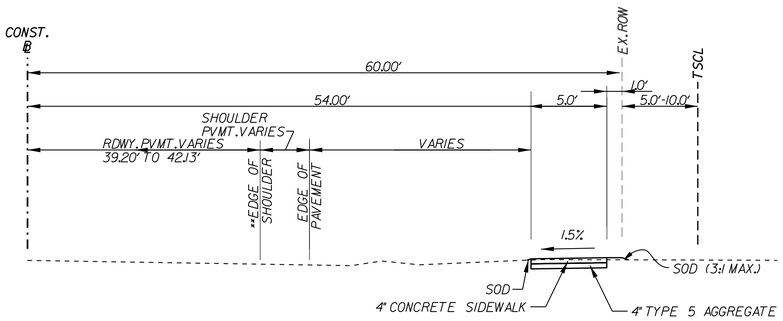
STA. 107+62.73 TO STA. 108+26.20 RT.

** THROUGH DRIVE APPROACH



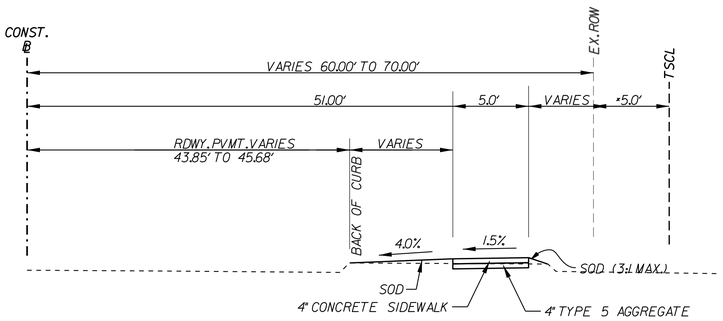
TYPICAL SECTION - NEW HALLS FERRY ROAD (WEST SIDE)

STA. 108+26.20 TO STA. 109+16.64 RT.
(SIDEWALK TRANSITION FROM STA. 108+26.20 TO 108+35.29)
(SIDEWALK TRANSITION FROM STA. 109+09.00 TO 109+16.64)



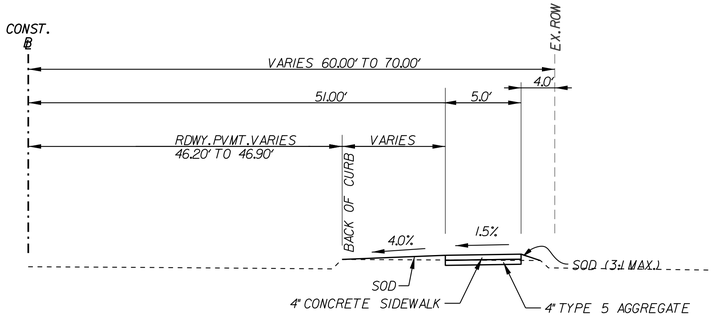
TYPICAL SECTION - NEW HALLS FERRY ROAD (WEST SIDE)

STA. 109+16.64 TO STA. 113+75.00 RT.



TYPICAL SECTION - NEW HALLS FERRY ROAD (WEST SIDE)

STA. 113+75.00 TO STA. 116+70.00 RT.
*FROM STA. 113+75.00 TO STA. 113+85.00



TYPICAL SECTION - NEW HALLS FERRY ROAD (WEST SIDE)

STA. 116+70.00 TO STA. 117+41.69 RT.

NOT TO SCALE

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

REVISIONS				
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JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
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(314) 615-8543

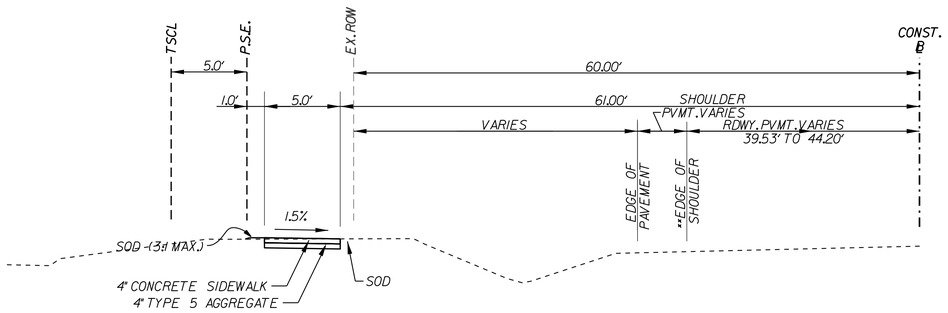
JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

TYPICAL SECTIONS SHEET 1 OF 2 (WEST SIDE)

DESIGNED: K. J. JONES
DRAWN: K. J. JONES
CHECKED: J. DAVIS
SHEET SEQUENCE: 5 OF 27



TYPICAL SECTION - NEW HALLS FERRY ROAD (EAST SIDE)

STA. 107+88.88 TO STA. 108+49.08 LT.

NOT TO SCALE

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

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JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

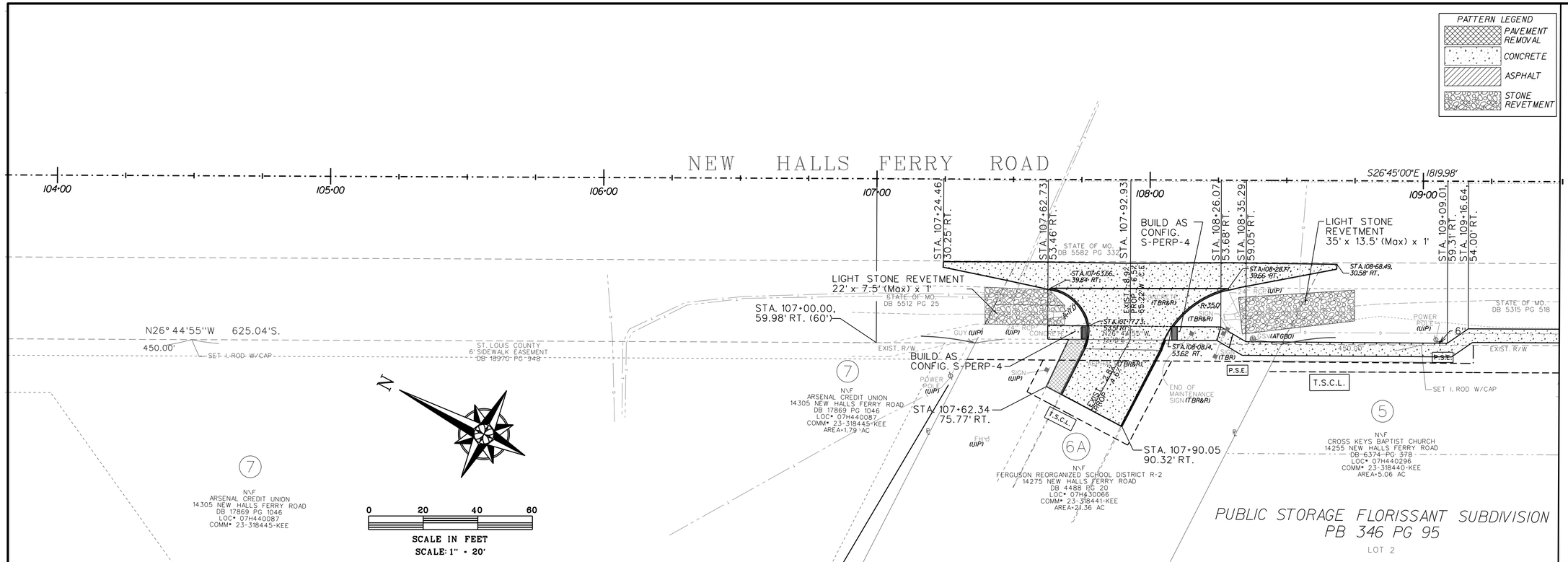
TYPICAL SECTIONS
SHEET 2 OF 2
(EAST SIDE)

DESIGNED: K. J. JONES

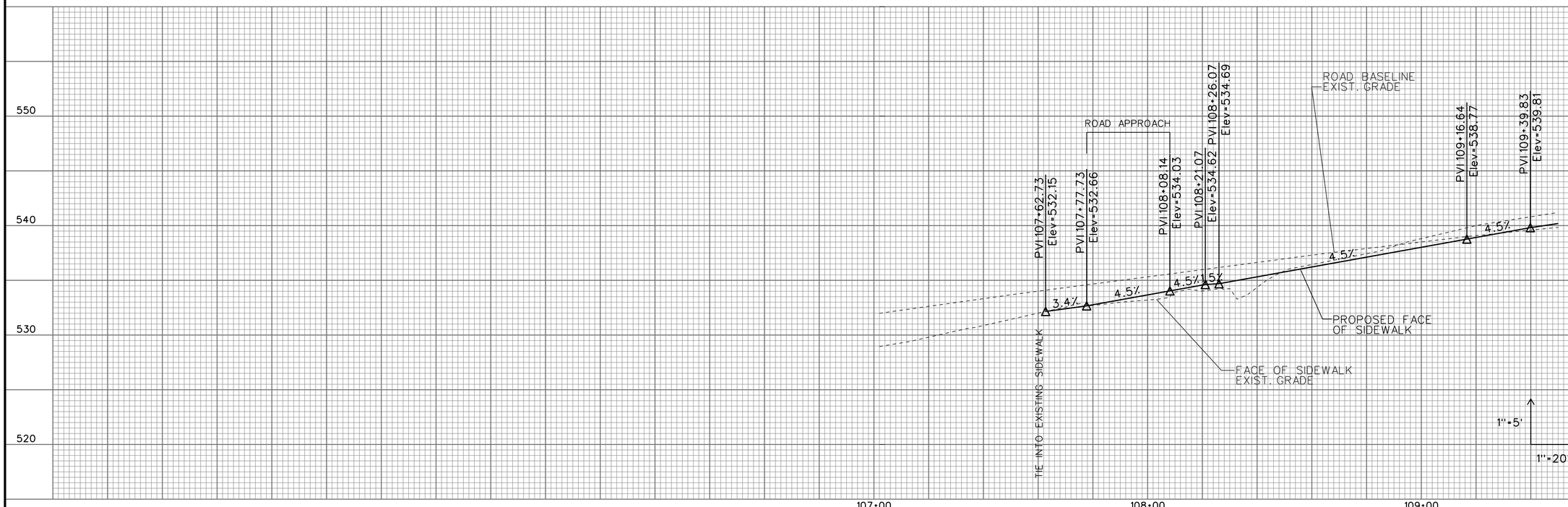
DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 6 OF 27



MATCHLINE STA. 109+50.00 RT.



REV	DATE	BY	APP	DESCRIPTION

REVISIONS

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 6/17/2026

PREPARED BY:
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1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8343

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK (WEST SIDE)

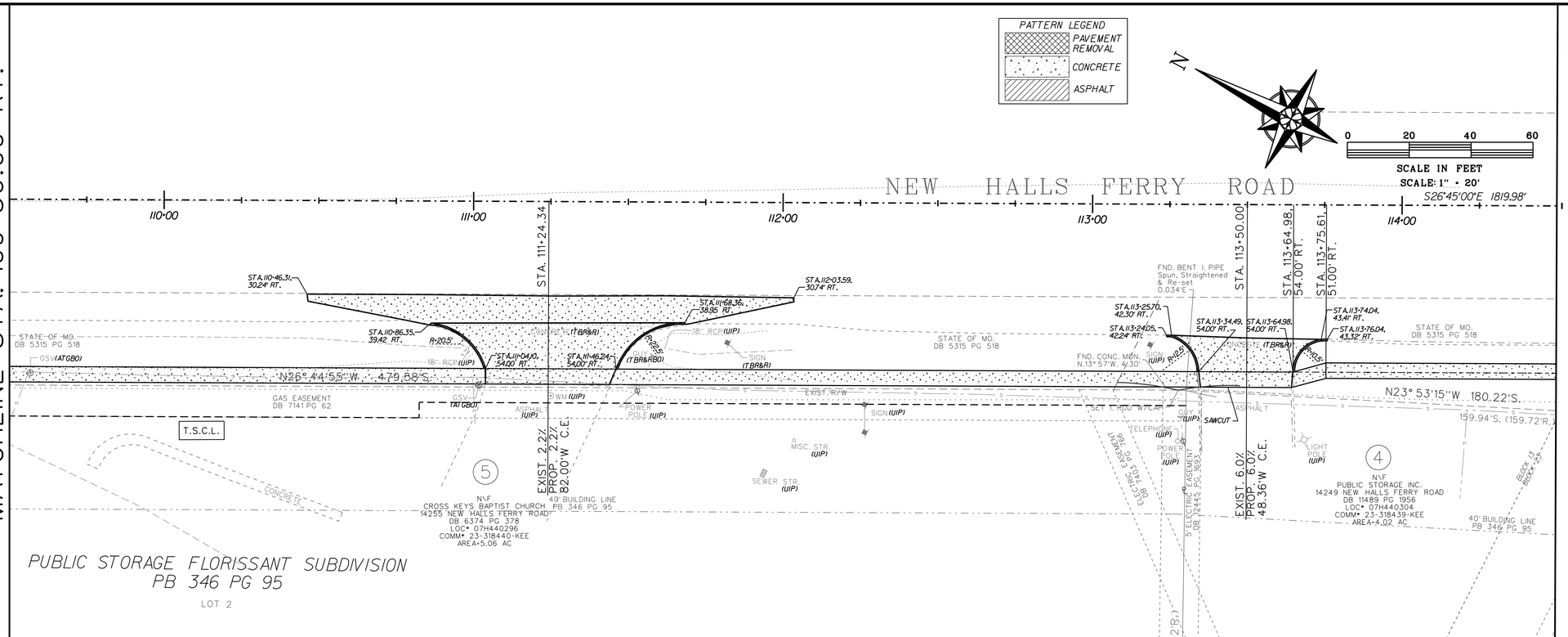
PLAN & PROFILE SHEET
SHEET 1 OF 4

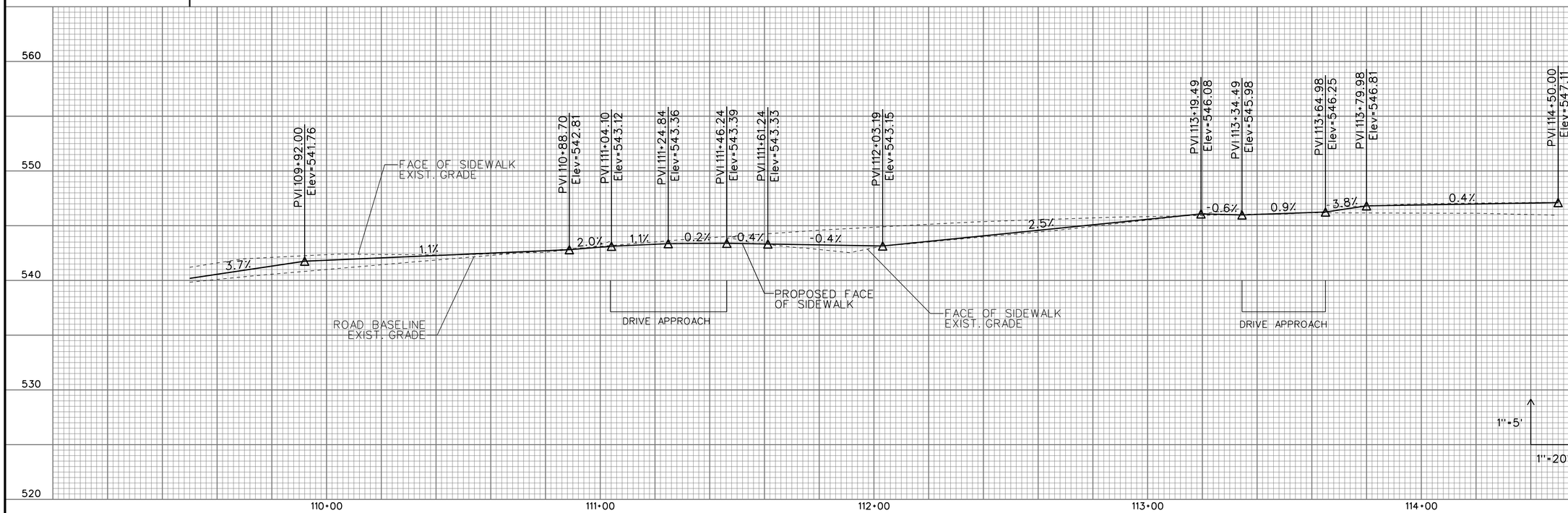
DESIGNED: K. JONES
DRAWN: K. JONES
CHECKED: J. DAVIS
SHEET SEQUENCE: 7 OF 27

COUNTY PROJECT NO. AR-1857
FEDERAL PROJECT NO. TAP-9901(685)
E-W GATEWAY TIP NO. 7247G-24
MSD: 25MSD-00243
MSD BASE MAP: 07H4

MATCHLINE STA. 109+50.00 RT.

MATCHLINE STA. 114+50.00 RT.





COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK (WEST SIDE)

PLAN & PROFILE SHEET
SHEET 2 OF 4

DESIGNED: K. JONES

DRAWN: K. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 8 OF 27

MATCHLINE STA. 114+50.00 RT.

SIGN (U/P) SIGN (U/P) MEDIAN (U/P) SIGN (U/P)

S26°45'00"E 1819.98'

115+00 116+00 117+00 118+00 118+20

APPROX. LOC. OF NEWLY INSTALLED ATT HANDHOLES AROUND 11-20-2024

APPROX. LOC. OF PARKING STOP IN ROW (TBR)

STA. 115+52.38 STA. 116+41.86

END MAINTENANCE S63°15'00"W 144.00'S.

N23°53'15"W 20.03'S.

8" PVC

STA.115+18.55, 44.37' RT. STA.115+28.77, 51.00' RT. STA.115+75.38, 51.00' RT. STA.115+83.79, 44.82' RT. STA.116+18.30, 45.03' RT. STA.116+26.56, 51.00' RT. STA.116+59.34, 51.00' RT. STA.116+68.94, 45.59' RT.

STATE OF MO. DB 5315 PG 518 STATE OF MO. DB 5376 PG 406 STATE OF MO. DB 5514 PG 574

MANHOLE 07H1-176D (U/P) MANHOLE 07H1-169D (U/P)

2' TYP. 2' TYP.

CONCRETE (TBR&R) ASPHALT (TBR&R) CONCRETE (TBR&R)

END STLCO WORK-BEGINNING OF MODOT WORK STA. 117+41.74, 51.00' RT. S45°09'48"W 142.02'

TO BE INSTALLED BY MoDOT's PROJECT NO. J6S3625

STA. 117+64.90, 60.00' RT.

4.00'

SET 1 ROD W/CAP MANHOLE 07H1-092S (U/P) 8" PVC MANHOLE 07H1-093S (U/P)

EXIST. R/W ASPHALT N26°45'00"W 95.05'S. ASPHALT N26°45'00"W 87.00'S. EXIST. R/W (U/P)

37.72'S (35.25' R.)

5' UTILITY & SIDEWALK EASEMENT DB 7587 PG 2284

10' GAS EASEMENT DB 7141 PG 64

SET 1 ROD W/CAP

FND 1" IRPE W/CAP (K.D.G.) 0.1'E.

8" PVC

10' GAS EASEMENT DB 7141 PG 64

10' GAS EASEMENT DB 7662 PG 1918

10' SEWER EASEMENT DB 8652 PG 358

S89°41'38"W 168.17'S. (168.21'R.)

EXIST. 5.92' PROP. 5.57' W C.E.

EXIST. 2.22' PROP. 2.22' W C.E. 50.64'

55.85

SET SURVEY MARKER NAIL

STORM WATER DISCHARGE EASEMENT ALONG NORTH LINE OF PARCEL 1 DB 7150 PG 1458

SHRUB/PLANTS (U/P) SPRINKLERS (U/P) SET 1 ROD W/CAP SPRINKLERS (U/P) SPRINKLERS (U/P) SET 1 ROD W/CAP YUCCA PLANT (U/P) SPRINKLERS (U/P) BRICK SIGN BASE (U/P)

INTERCONNECT (U/P) MODOT TRAFFIC PULLBOX (U/P) MODOT SIGNAL (U/P) TRUNCATED DOMES (U/P) MODOT SIGNAL (U/P)

161.75'S.

4 N\F PUBLIC STORAGE INC. 14249 NEW HALLS FERRY ROAD DB 11489 PG 1956 LOC• 07H440304 COMM• 23-31839-KEE AREA•4.02 AC

3 N\F BARTEAU LAND MANAGEMENT LLC 14243 NEW HALLS FERRY ROAD DB 22300 PG 3198 LOC• 07H420353 COMM• 23-31838-KEE AREA•16319 SQF

2 N\F BARTEAU LAND MANAGEMENT LLC 14241 NEW HALLS FERRY ROAD DB 22300 PG 3198 LOC• 07H420364 COMM• 23-31843?-KEE AREA•13492 SQF

1 N\F FLORISSANT INVESTORS LLC 3055 NORTH HIGHWAY 67 DOC• 2022032901297 LOC• 07H420090 COMM• 23-31843?-KEE AREA•29480 SQF

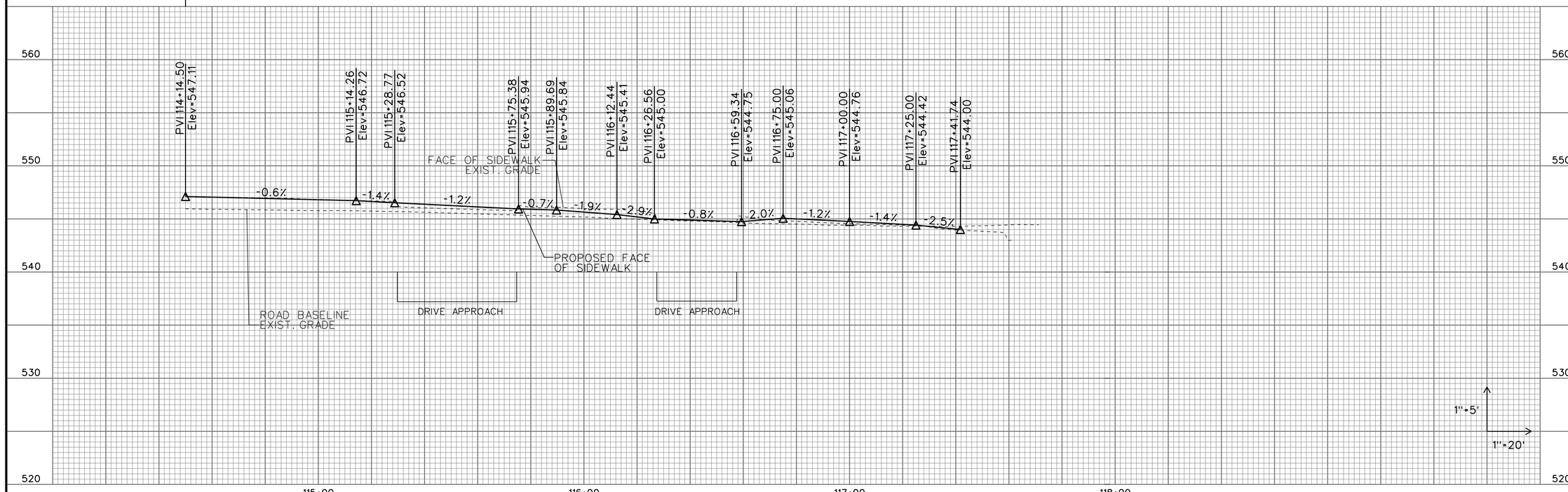
N

0 20 40 60

SCALE IN FEET
SCALE: 1" • 20'

NORTH HIGHWAY 67 A.K.A LINDBERGH BOULEVARD (State Route M-140)

PATTERN LEGEND
PAVEMENT REMOVAL
CONCRETE
ASPHALT



COUNTY PROJECT NO. AR-1857

FEDERAL PROJECT NO. TAP-9901(685)

E-W GATEWAY TIP NO. 7247G-24

MSD: 25MSD-00243

MSD BASE MAP: 07H4

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REV	DATE	BY	APP	DESCRIPTION

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JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8343

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK (WEST SIDE)

PLAN & PROFILE SHEET
SHEET 3 OF 4

DESIGNED: K. JONES

DRAWN: K. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 9 OF 27

SUNSWEPT CONDOMINIUM
PB 332 PG 65 - 66

FLOWER VALLEY SHOPPING CENTER PLAT 4
PB 204 PG 59

N\F
MO. NORTHPOINTE LLC
14350 NEW HALLS FERRY ROAD
DB 23232 PG 11
LOC# 07H530221

8
N\F
BOATMANS NATIONAL BANK
14300 NEW HALLS FERRY ROAD
DB 7295 PG 2480
LOC# 07H440241
COMM# 23-318446-KEE
AREA=2.31 AC

9
N\F
WALLIS PETROLEUM LLC
1 FLOWER VALLEY SHOPPING CENTER
DOC# 2022100300298
LOC# 07H440322
COMM# 23-318447
AREA=10.63 AC

EASEMENT PB 332 PG 65

FND. CONC. MON: 0.32'W.

300.00'S.&R.

5'W UTILITY ESMT. PB 138 PG 95

ST. LOUIS COUNTY 5' SIDEWALK EASEMENT DB 7347 PG 277

WATER EASEMENT DB 5175 PG 631

220.04'S. (220.00'R.)

EXIST. R/W

S26° 45'09"E 1089.13'S

21" RCP

TELEPHONE BOXES (UIP)

GUY (UIP)

POWER POLE (UIP)

MANHOLE 07H1-045S (UIP)

EXIST. -6.2%
PROP. 2.7%
57.50'W C.E.

T.S.C.L.

ELECTRIC METER (UIP)

SIGN (UIP)

P.S.E.

ASPHALT (UIP)

CONCRETE (UIP)

ASPHALT (TBR)

CONCRETE (TBR)

(UIP)

(TBR)

(ATGBD)

R=25.25'

R=63'

STA.108+07.61, 45.61' LT.

STA.108+02.25, 39.80' LT.

STA.108+02.25, 29.72' LT.

STA.108+59.75, 43.61' LT.

STA.108+59.75, 29.81' LT.

SET 1 ROD W/CAP

R=260'

EXIST. R/W

450.00'

TELEPHONE POWER BOX (UIP)

POLE (UIP)

FEND (UIP)

LIGHT POLE (UIP)

24" RCP

CI 07H1-115D (UIP)

NOTE: THIS NORTHEAST SIDE OF NEW HALLS FERRY ROAD SIDEWALK IMPROVEMENTS WILL BE COMPLETED BY A FUTURE DEVELOPMENT BEGINNING AT APPROXIMATELY STA.108+49.08 LT.

36" RCP

CONCRETE (UIP)

CI 07H1-037S (UIP)

CURB INLET 07H1-114D

FND CROSS ADOPT

STA. 107+88.88, 60.98' LT.

STA. 108+28.90

STA. 108+49.06, 60.98' LT.

NEW HALLS FERRY ROAD

104+00 105+00 106+00 107+00 108+00 109+00

STATE OF MO. DB 5582 PG 332

PATTERN LEGEND
- PAVEMENT REMOVAL
- CONCRETE
- ASPHALT

0 20 40 60
SCALE IN FEET
SCALE: 1" = 20'

560 550 540 530 520

ROAD BASELINE EXIST. GRADE

PVI 107+88.88 Elev=534.06
PVI 107+93.88 Elev=534.13
PVI 108+03.85 Elev=534.40
PVI 108+09.07 Elev=534.32
PVI 108+48.57 Elev=535.16

1.5%
2.7%
1.5%
2.1%

FACE OF SIDEWALK EXIST. GRADE
PROPOSED FACE OF SIDEWALK
DRIVE APPROACH

1"=5'
1"=20'

107+00 108+00 109+00

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

REV	DATE	BY	APP	DESCRIPTION

REVISIONS

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-6343

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK (EAST SIDE)

PLAN & PROFILE SHEET
SHEET 4 OF 4

DESIGNED: K. JONES
DRAWN: K. JONES
CHECKED: J. DAVIS
SHEET SEQUENCE: 10 OF 27

MSD STANDARD PLAN NOTES:

LIMITS OF DISTURBANCE:

The contractor shall stay within the limits of disturbance as shown on the plans and minimize disturbance within the work area wherever possible.

PUBLIC SEWER MAINTENANCE:

Maintenance of the sewers designated "public"shall be the responsibility of the Metropolitan St. Louis Sewer District upon dedication of the sewers to the District.

REMOVE REPLACE OR REHAB NOTE:

The removal and replacement, or rehabilitation of the existing structure will be determined by the MSD field inspector. If the structure is determined to remain in place, then the top shall be adjusted to grade, if needed.

EXISTING CONNECTIONS:
Existing water and sanitary connections will not be modifies with this work.

STANDARD CONSTRUCTION:

All storm and sanitary sewer structures and appurtenances to be dedicated to MSD, or to be Private Under MSD Inspection, shall conform to the Metropolitan St. Louis Sewer District, Standard Construction Specifications for Sewers and Drainage Facilities, 2023. That will include Standard Details shown therein, and shall include all subsequent changes made thereto and shall also include the following:

PART 2 - MATERIALS OF CONSTRUCTION
SECTION G PIPE.
12. Corrugated Polypropylene Pipe.
Subparagraphs a and b shall be deleted in their entirety and replaced with the following:
a. For use in Sanitary, Storm and Combined Sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non-Pressure Sanitary Sewer Applications." Pipe shall have a minimum stiffness of 46 psi when tested in accordance with ASTM D2412.

b.In addition to the joint requirements indicated in Part 2, Sec. H, all polypropylene pipe shall utilize a double gasketed joint.

Paragraphs d. and e. below shall be added:
d.Pipe for gravity sewer installations shall be installed in accordance with ASTM D2321. Consolidation by water (jetting or puddling) shall not be used. Consolidation shall be in accordance with MSD Standard Construction Specifications for trench backfill. Price for compacted backfill shall be included in pipe unit cost.

1.For use in sanitary and combined sewer installations, a representative from the pipe manufacturer shall visit the site within the first 100 feet of pipe installation. Coordination of this site visit shall be arranged by the Contractor. The Contractor shall provide the MSD inspector at least 24 hours' notice of the planned date and time of the manufacturer's site visit.

2.Following the site visit, the Contractor shall be required to provide a letter from the piping manufacturer summarizing their observations. At a minimum, the letter shall:
a)Indicate the date the initial section of pipe was installed; and
b)Verify that the installation occurred in accordance with manufacturer's recommended procedures.

e.Trench width shall be in accordance with manufacturer's installation recommendations. District standard payline widths based on the nominal inside pipe diameter shall apply.

High Density Polyethylene (HDPE) pipe is not allowed for gravity sewers for storm, combined, or sanitary sewers that are "public"or "private under MSD inspection".

Polypropylene (PP) pipe is allowed as follows for gravity sewers that are "public"or "private under MSD inspection:

For use in sanitary and combined sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer Applications."
For use in storm sewers 12 to 24 inches in diameter it shall conform to the requirements of ASTM F2881 "Standard Specification for 12 to 60 in. Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications;"or
For use in storm sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer Applications."

PART 4 PIPE SEWER CONSTRUCTION

Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing delete the first sentence and the following replacement applies:

All sanitary and combined sewers shall sustain a maximum leakage limit of 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing, Subparagraph c, Infiltration/Exfiltration Testing delete the sixth sentence, concerning leakage limits, and the following replacement applies:

The measurement of leakage shall not exceed 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications.

Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph a, Vacuum Testing after the first sentence, the following addition applies:

The vacuum test must be performed prior to backfilling around the manhole unless the contractor provides documentation from the precast manhole manufacturer stating that the manhole may be vacuum tested after backfilling has taken place. The contractor must submit this documentation prior to backfilling around any manhole.
Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph b, Exfiltration Testing -- delete the second sentence, concerning leakage limits, and the following addition applies:

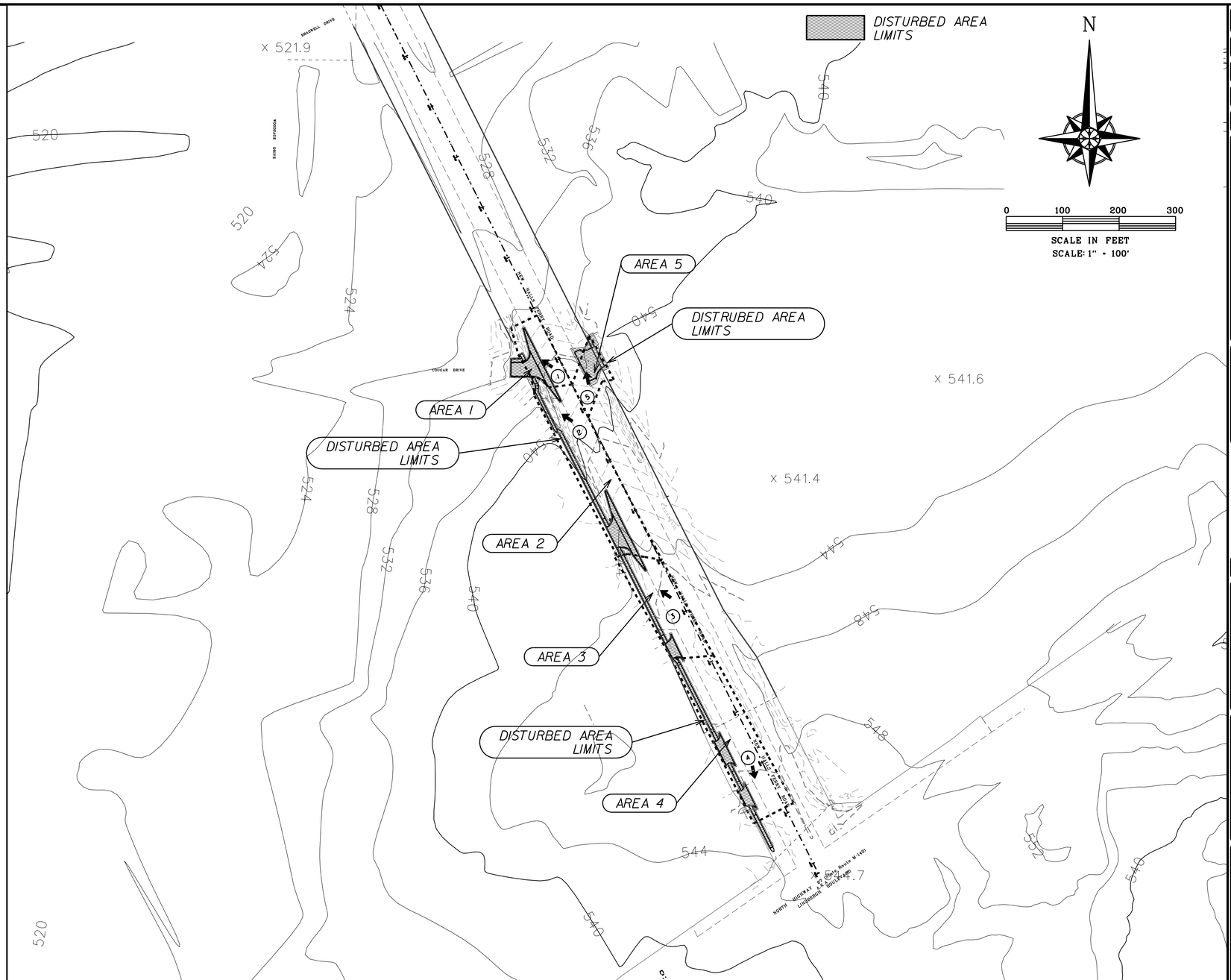
For exfiltration testing, the allowable leakage limit is 100 gallons/inch of pipe diameter/mile of line/day when the average head on the test section is three feet (3') or less.

If Reinforced Concrete Pipe is used for sanitary or combined sewers larger than 27", all pipe AND joints shall conform to ASTM C 361. In addition, if the diameter is larger than 48", the joint type must include a gasket that is confined in a groove in the spigot of the pipe.

STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:

Project Disturbance =__0.44___ACRES
Project Runoff Differential =_0.28___CFS

Any future land disturbance and/or increase in impervious area on this site may require additional stormwater management per MSD regulations in place at that time (including total land disturbance and/or imperviousness added on this plan.)



DRAINAGE AREA DATA						
AREA NO.	STRUCTURE	AREA (Ac.)	IMPERVIOUS AREA (Ac.)	% IMPERVIOUS	P.I. 15 YR.-20 MIN.	Q (cfs)
1	Ex. Driveway Culvert	0.16	0.1447	89%	3.34	0.54
2	Ex. Driveway Culvert	0.53	0.3721	71%	2.99	1.57
3	Ex. Driveway Culvert	0.33	0.2464	76%	3.09	1.00
4	Ex. GI--07H1-169D	0.53	0.4668	88%	3.32	1.76
5	Ex. CI--07H1-114D	0.11	0.0911	84%	3.24	0.35
TOTAL		1.65				5.23

TOTAL AREA DISTURBED = 0.44 ACRES
EXISTING IMPERVIOUS AREA = 1.24 ACRES
PROPOSED IMPERVIOUS AREA = 1.50 ACRES
INCREASE IN IMPERVIOUS AREA = 0.26 ACRES
TOTAL EXISTING 15YR-20MIN Q =4.95 CFS
TOTAL PROPOSED 15YR-20MIN Q = 5.23 CFS
TOTAL INCREASE IN RUNOFF = 0.28 CFS
NO FLOOD PROTECTION REQUIRED.

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

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JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE:
5/22/26

PREPARED BY:
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1050 N. LINDBERGH BLVD.
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(314) 615-6543

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

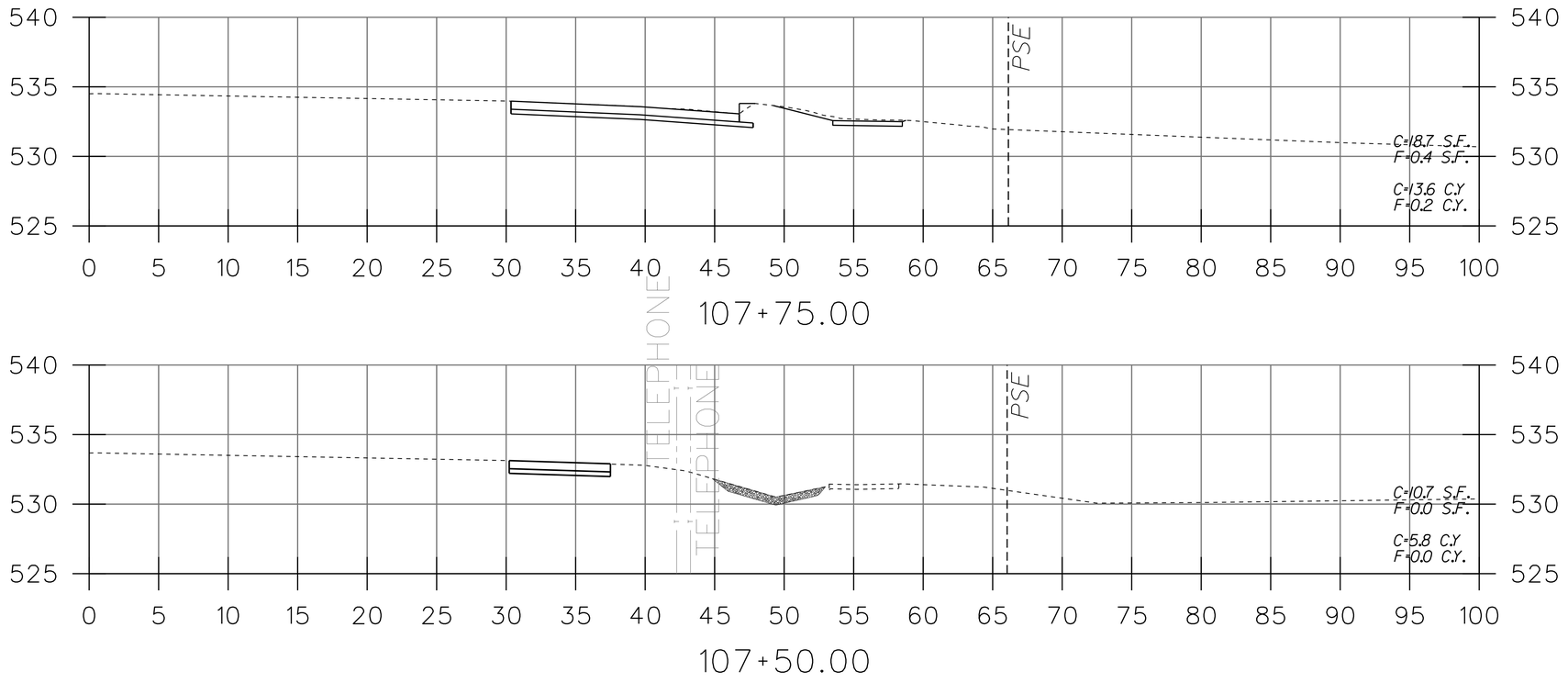
DRAINAGE AREA MAP

DESIGNED:
K. J. JONES

DRAWN:
K. J. JONES

CHECKED:
J. DAVIS

SHEET SEQUENCE:
11 OF 27



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JEFF DAVIS
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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

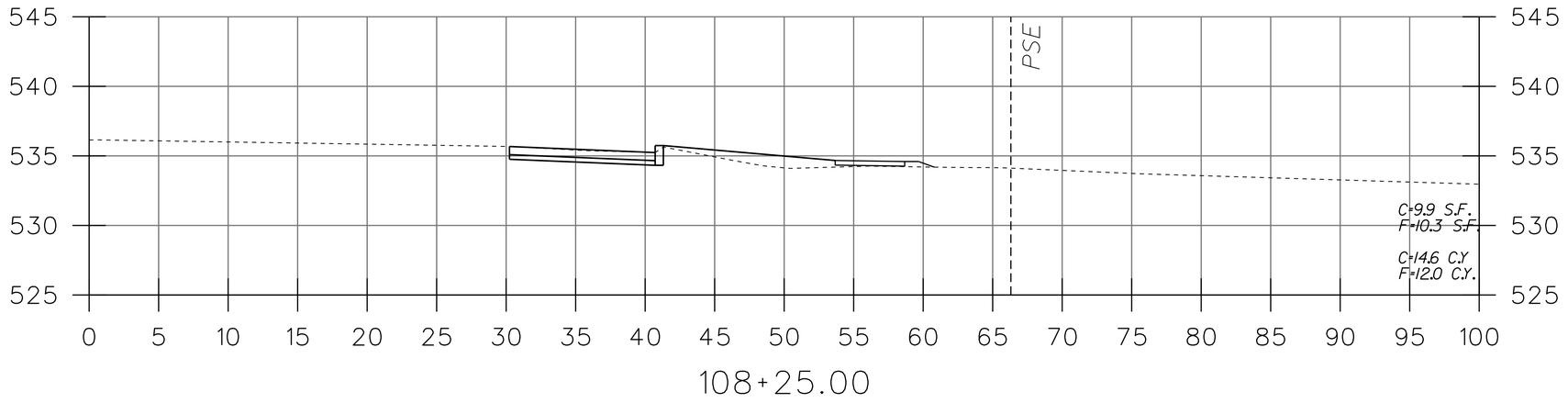
CROSS SECTIONS (WEST SIDE) (1 OF 16)

DESIGNED: K. J. JONES

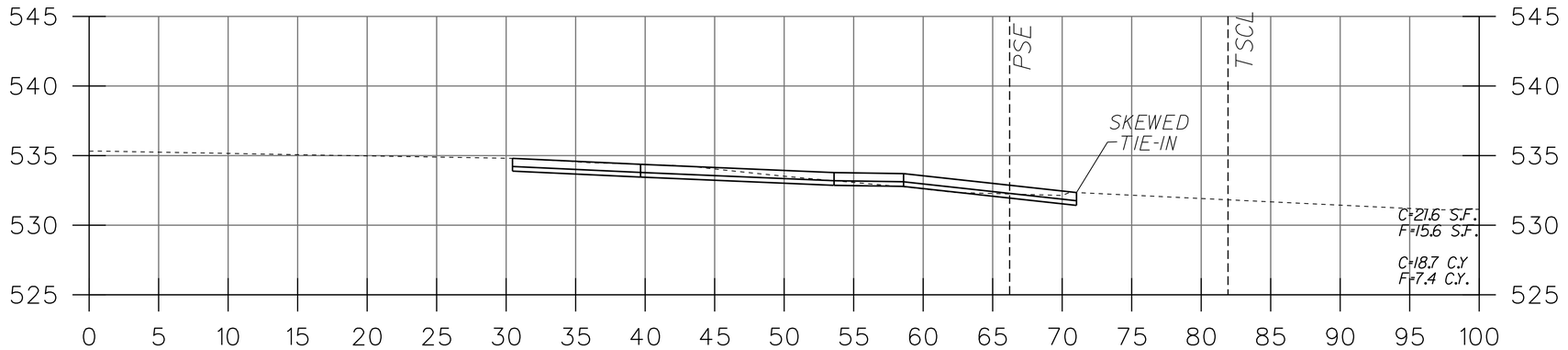
DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 12 OF 27



108+25.00



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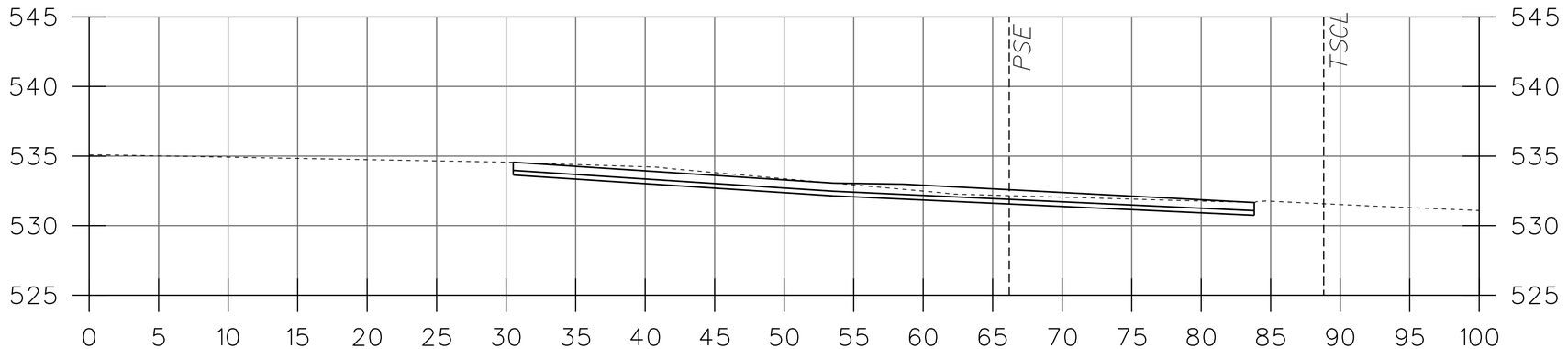

107+92.93 ROAD APPROACH @ COUGAR

COUNTY PROJECT NO.
AR-1857

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E-W GATEWAY TIP NO.
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JEFF DAVIS
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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

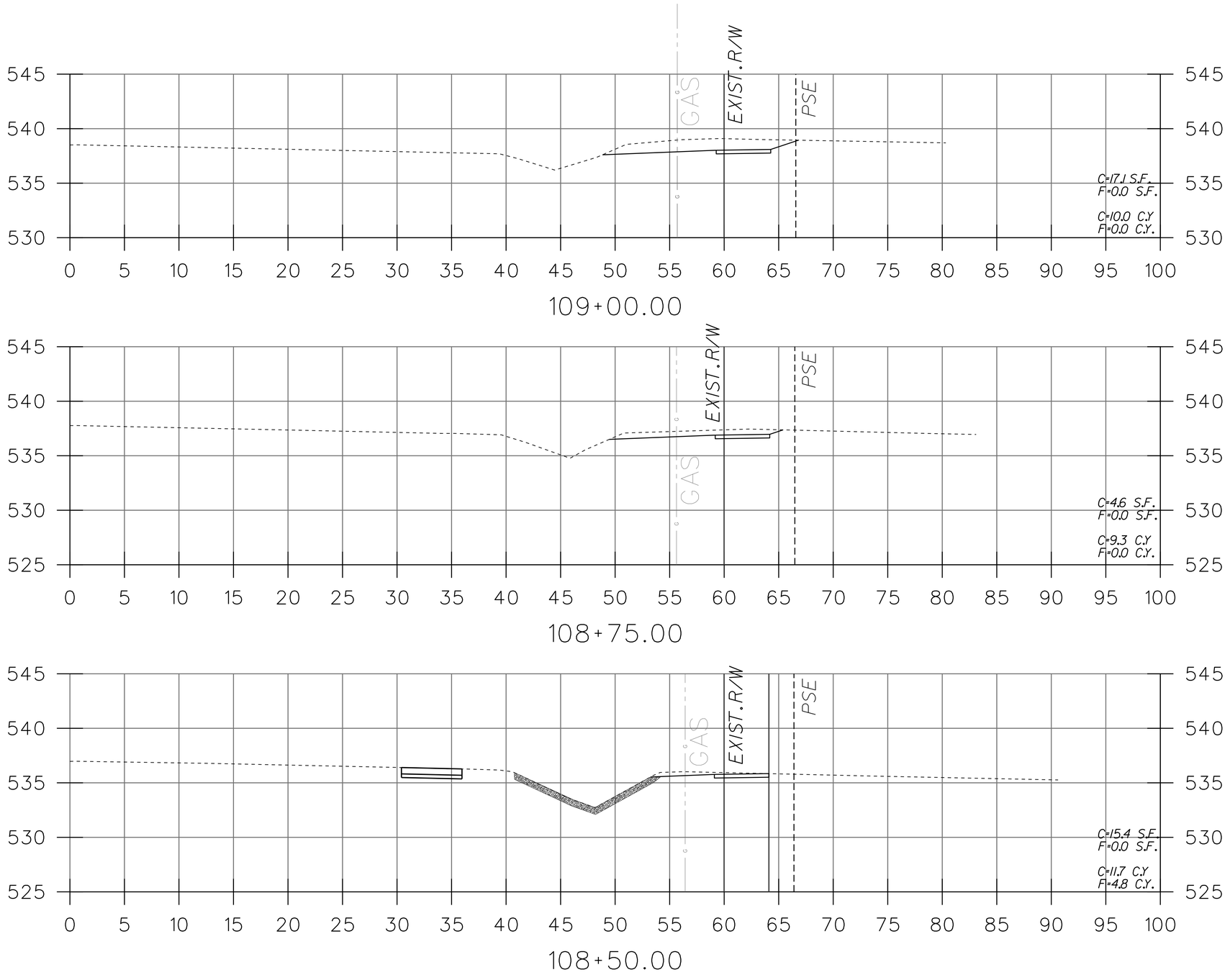
CROSS SECTIONS (WEST SIDE) (2 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 13 OF 27



COUNTY PROJECT NO.
AR-1857

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JEFF DAVIS
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LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

CROSS SECTIONS (3 OF 16)

DESIGNED: K. J. JONES

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CHECKED: J. DAVIS

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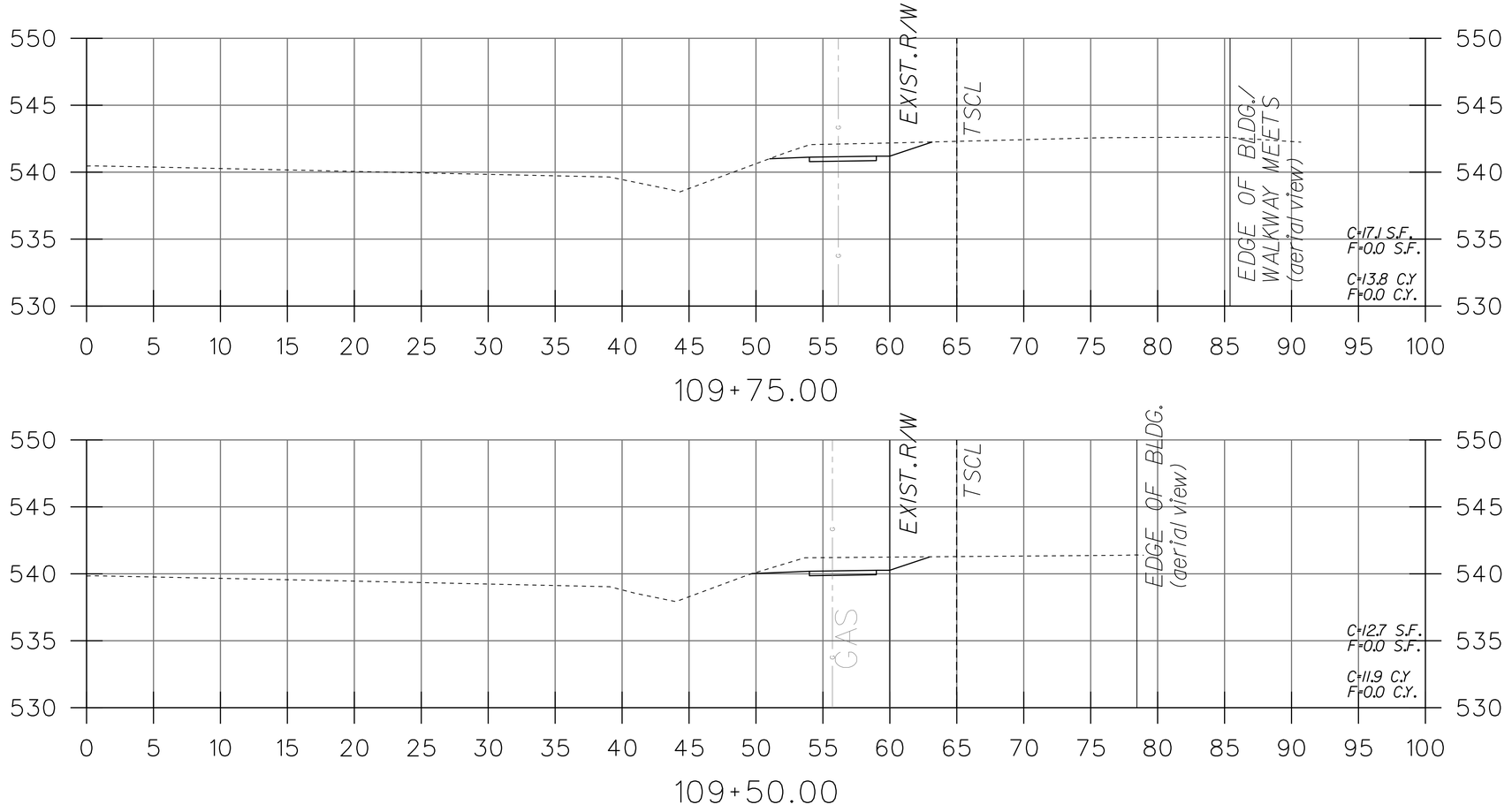

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JEFF DAVIS
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LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

CROSS SECTIONS
(4 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

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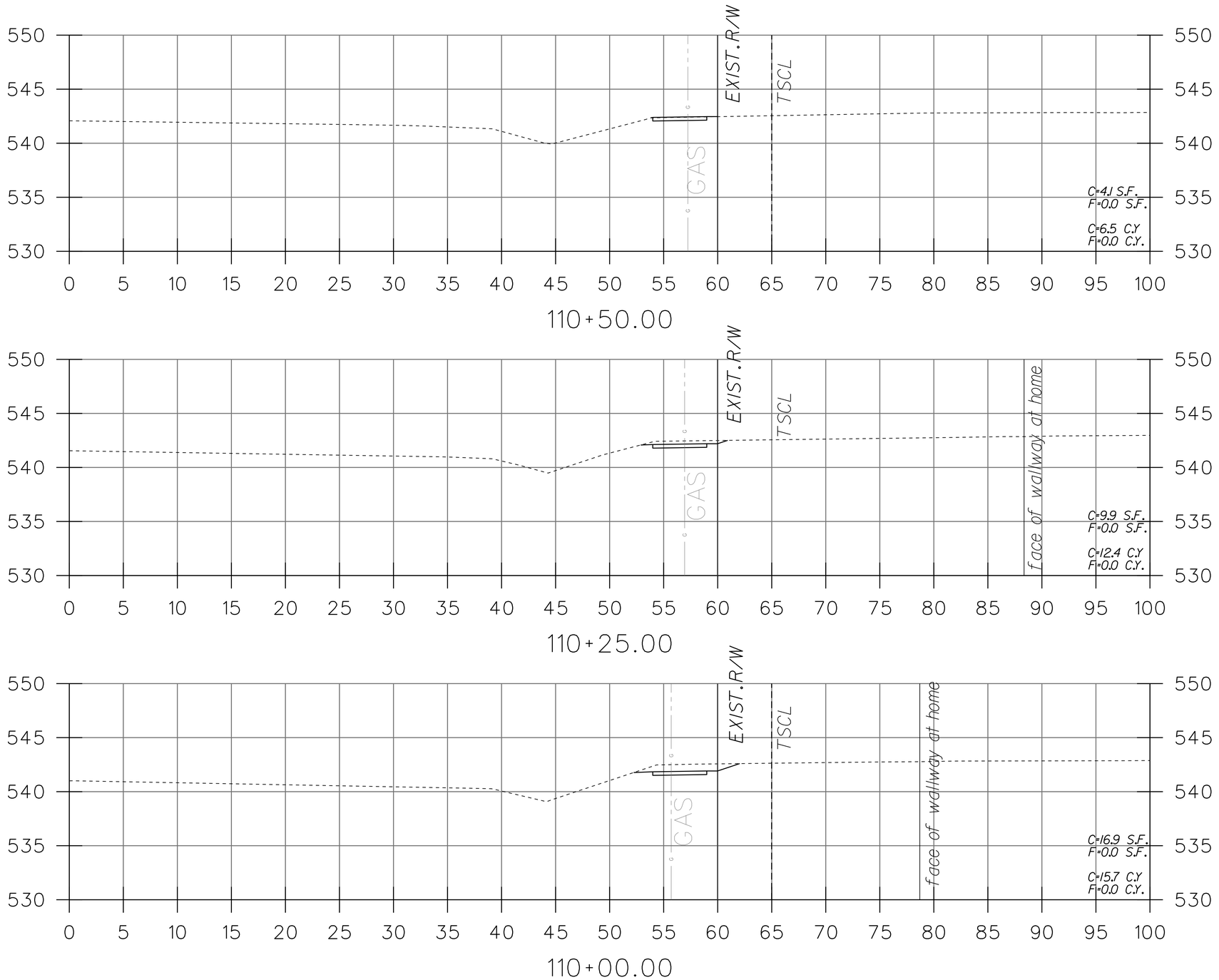

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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

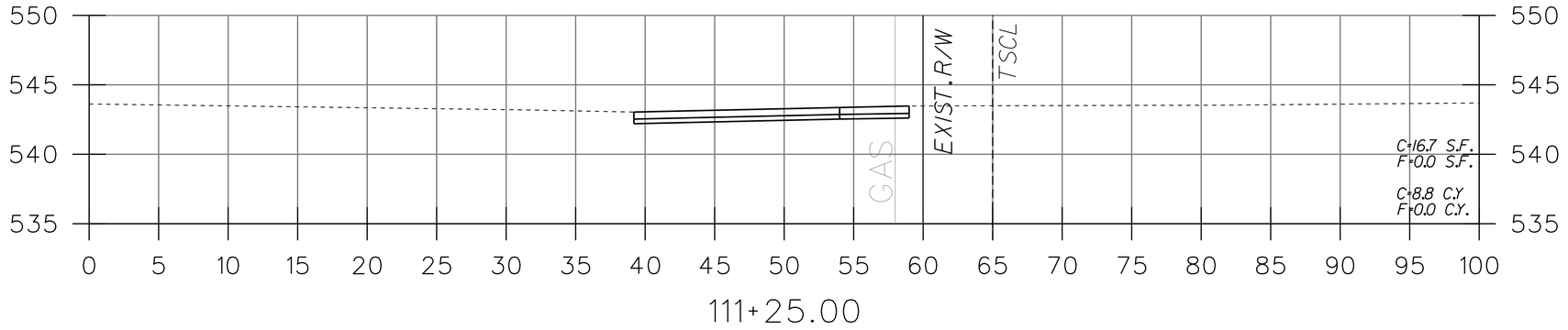
CROSS SECTIONS
(5 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 16 OF 27



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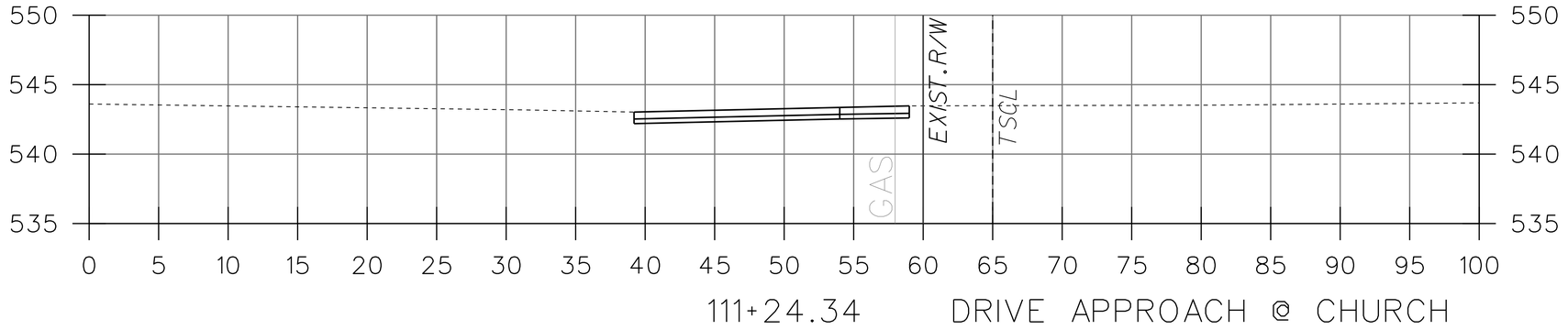
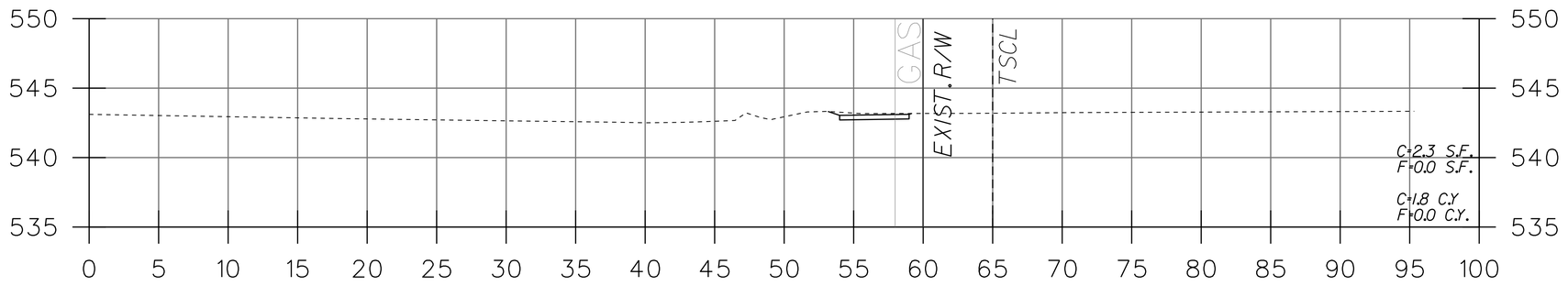


111+24.34 DRIVE APPROACH @ CHURCH



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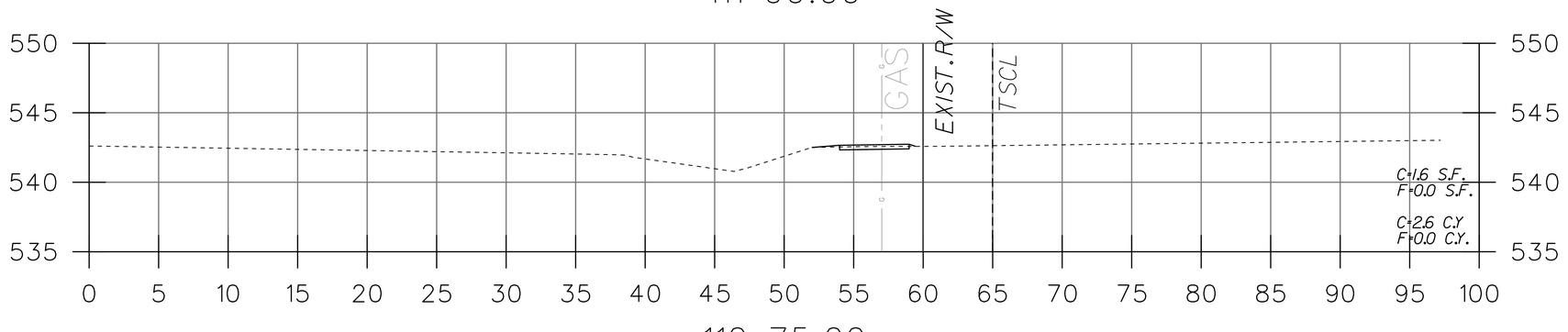

110+75.00

COUNTY PROJECT NO.
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E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

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JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE: 5/22/26

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JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

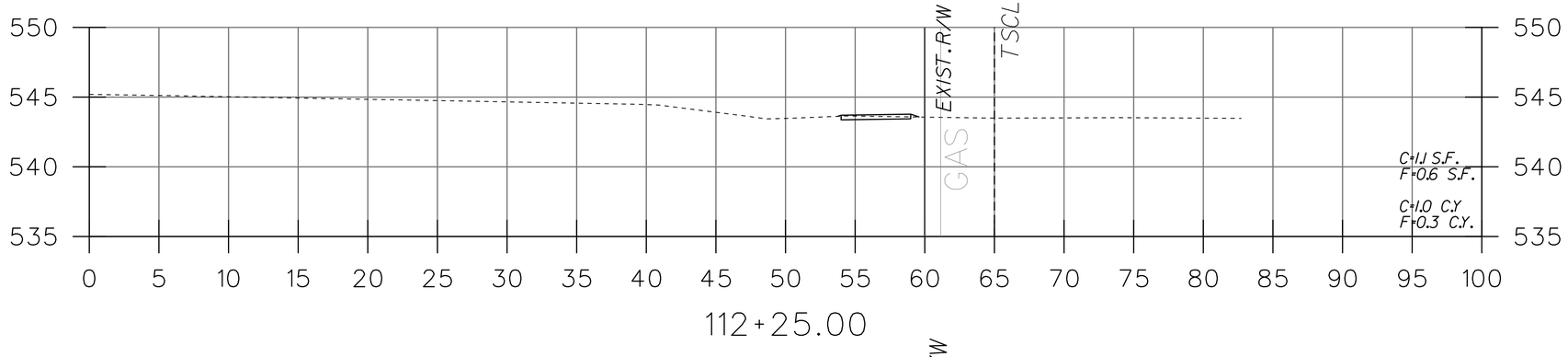
CROSS SECTIONS (6 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 17 OF 27



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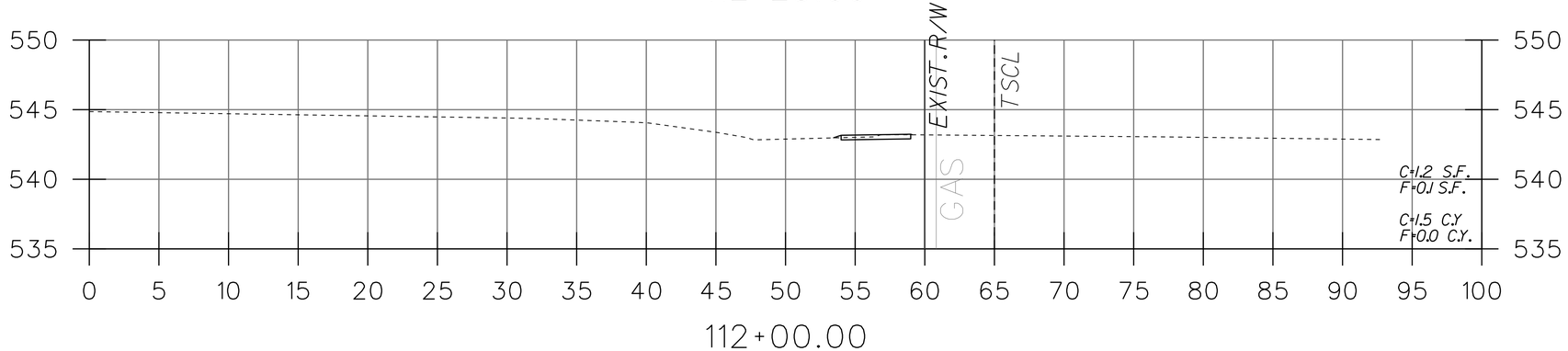
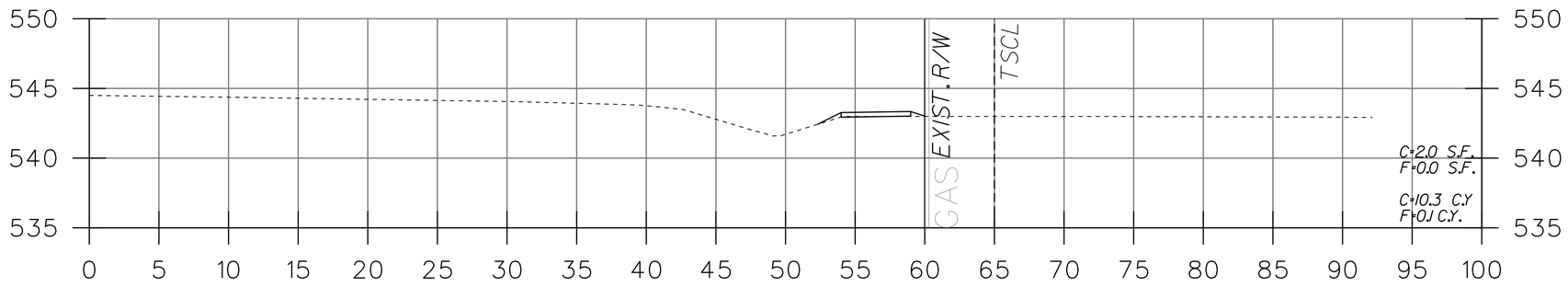


112+00.00



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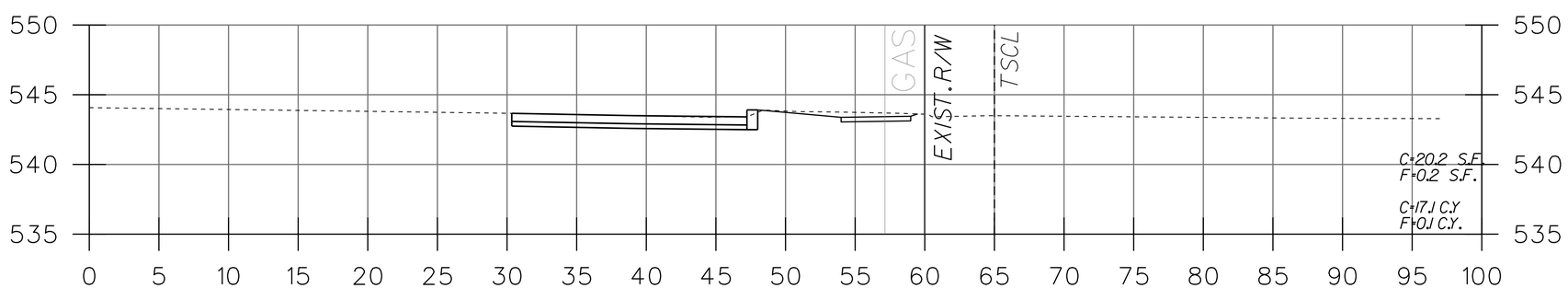

111+50.00

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STATE OF MISSOURI
JEFF MATTHEW DAVIS
NUMBER PE-2007020255
PROFESSIONAL ENGINEER

DATE:
5/22/26

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8343

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

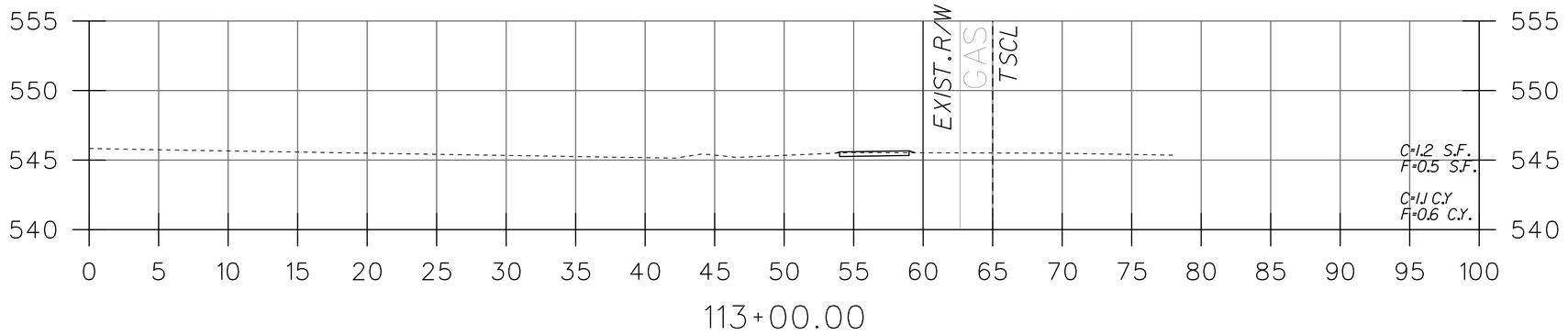
CROSS SECTIONS (7 OF 16)

DESIGNED:
K. J. JONES

DRAWN:
K. J. JONES

CHECKED:
J. DAVIS

SHEET SEQUENCE:
18 OF 27



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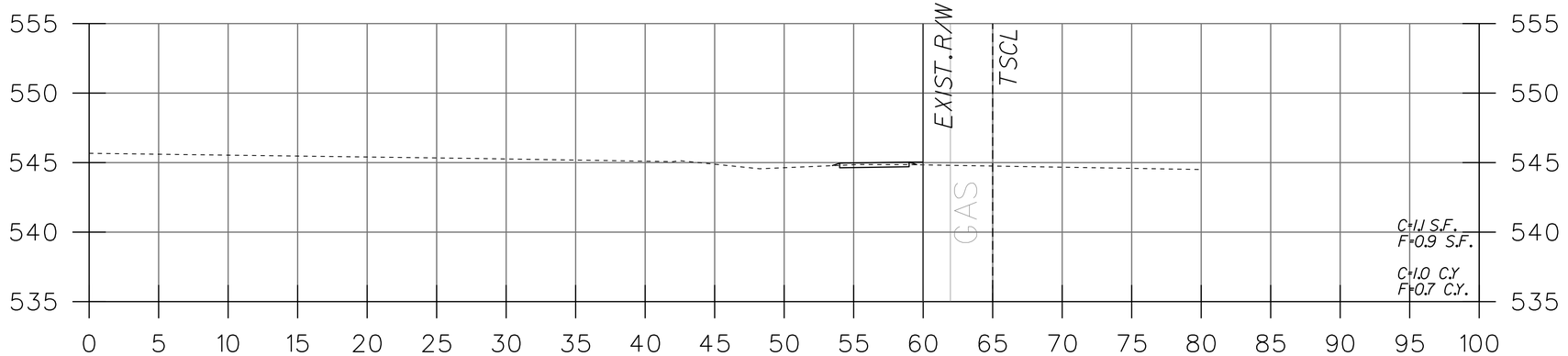

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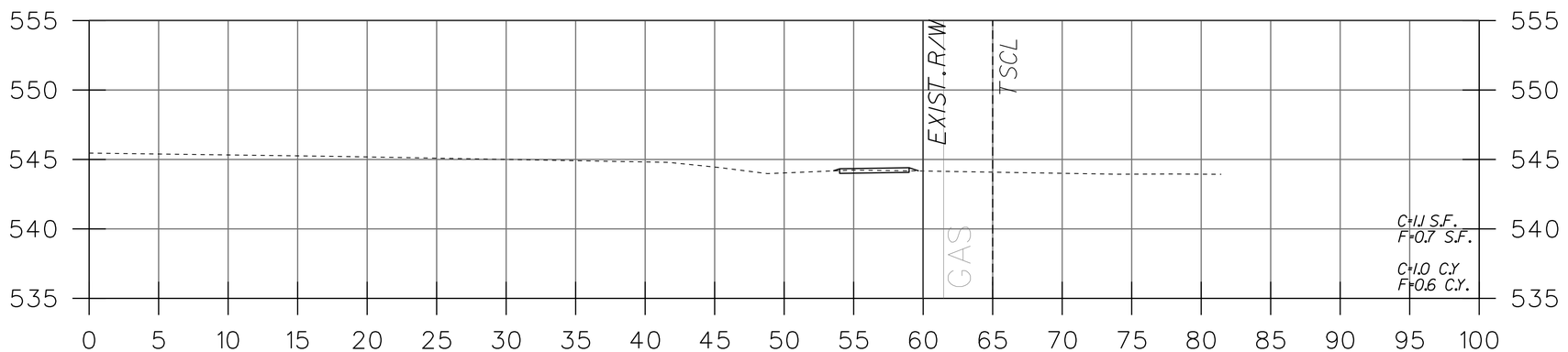

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COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
25MSD-00243

MSD BASE MAP:
07H4

REVISIONS

REV	DATE	BY	APP	DESCRIPTION

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JEFF DAVIS
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LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

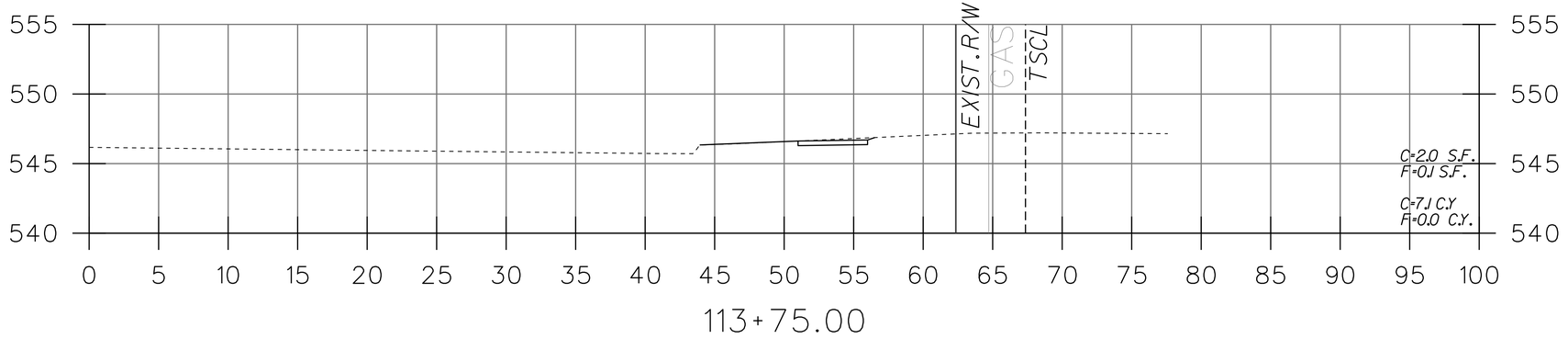
CROSS SECTIONS (8 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 19 OF 27



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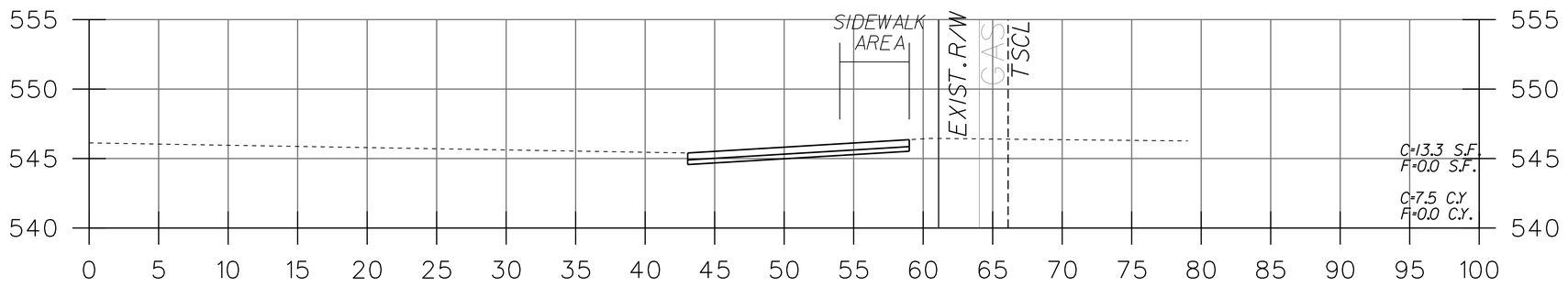

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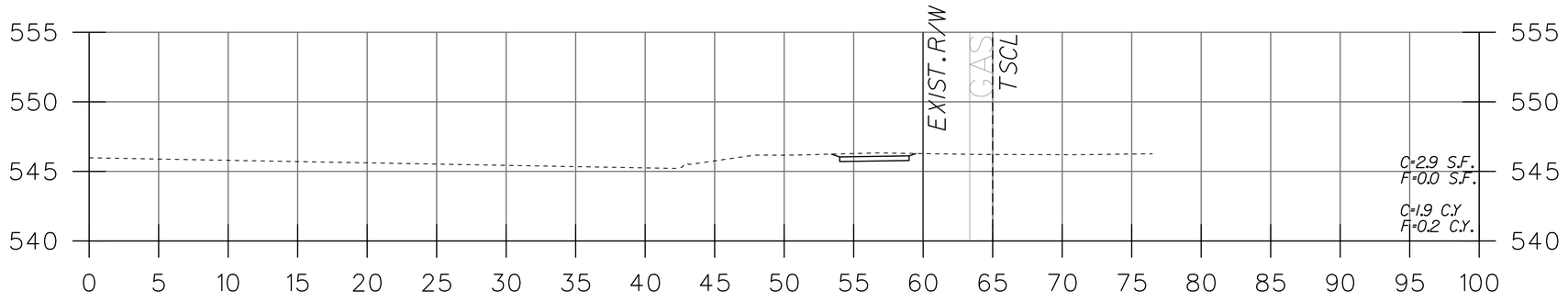

113+25.00

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LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

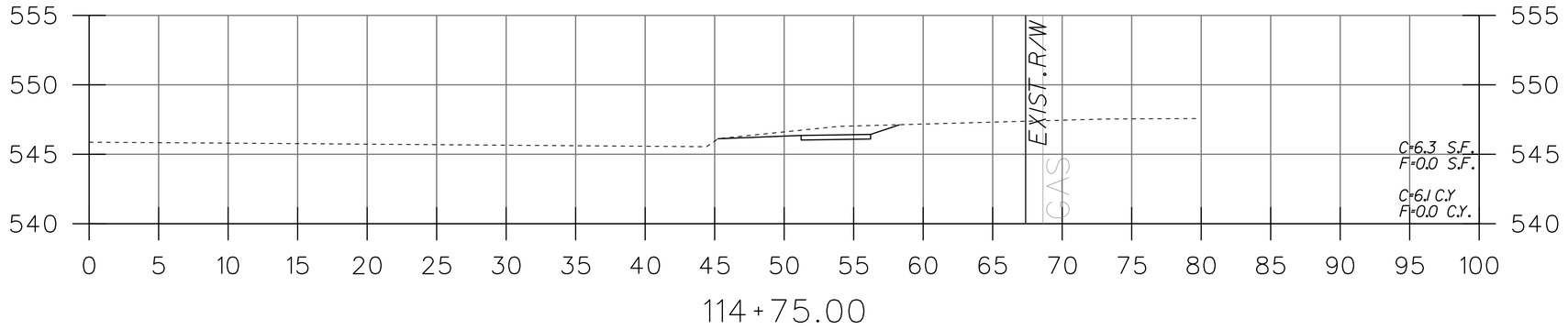
CROSS SECTIONS (9 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 20 OF 27



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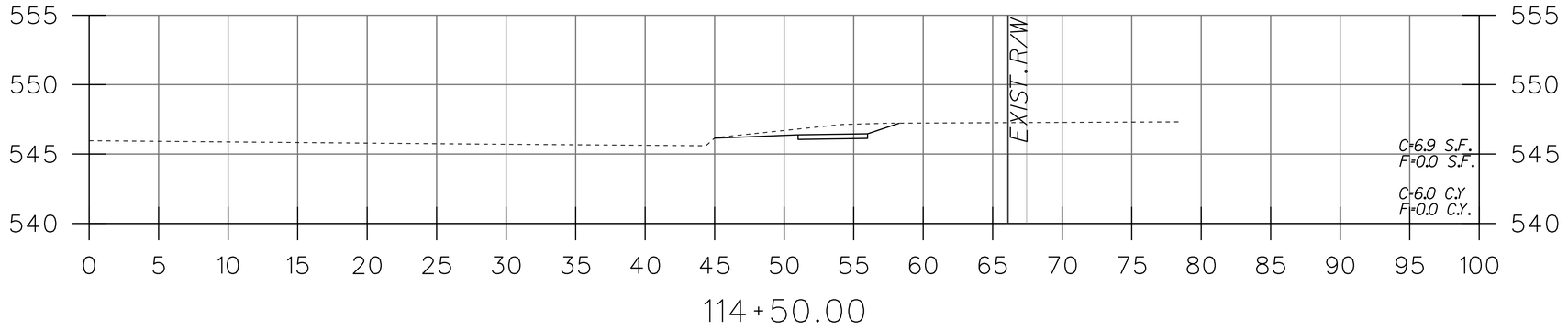

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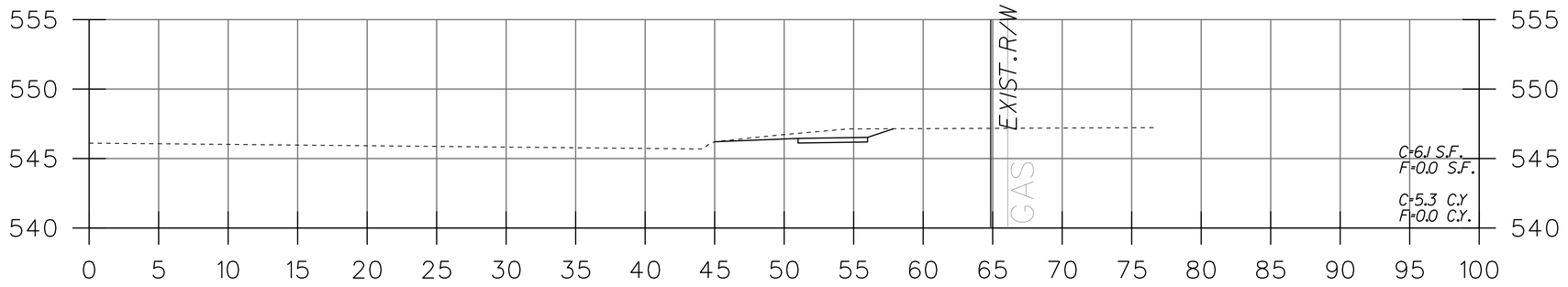

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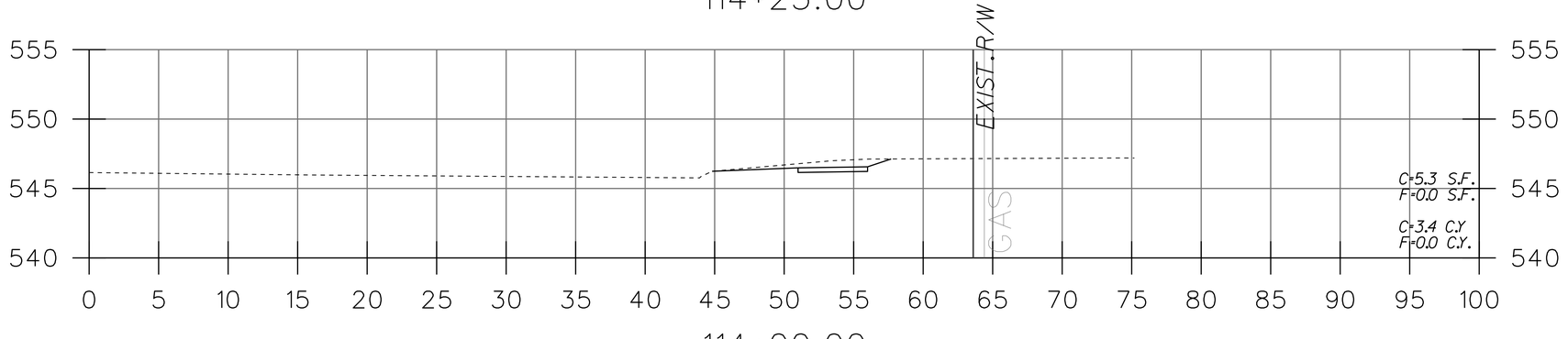

114+00.00

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AR-1857

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TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
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JEFF DAVIS
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LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

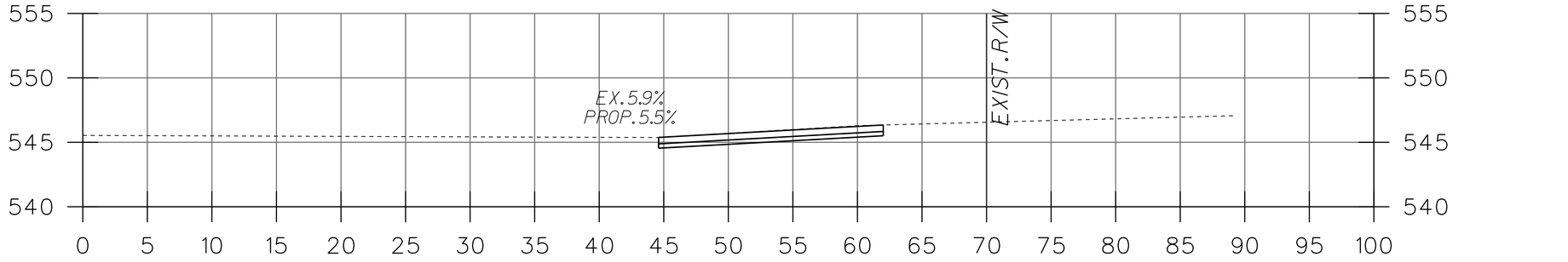
CROSS SECTIONS (10 OF 16)

DESIGNED:
K. J. JONES

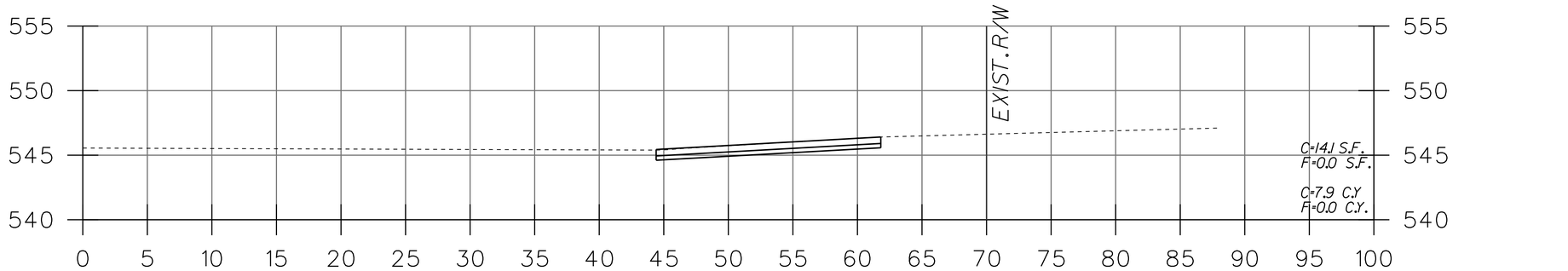
DRAWN:
K. J. JONES

CHECKED:
J. DAVIS

SHEET SEQUENCE:
21 OF 27



115+52.38 DRIVE APPROACH @ RONSICK'S AUTOCARE



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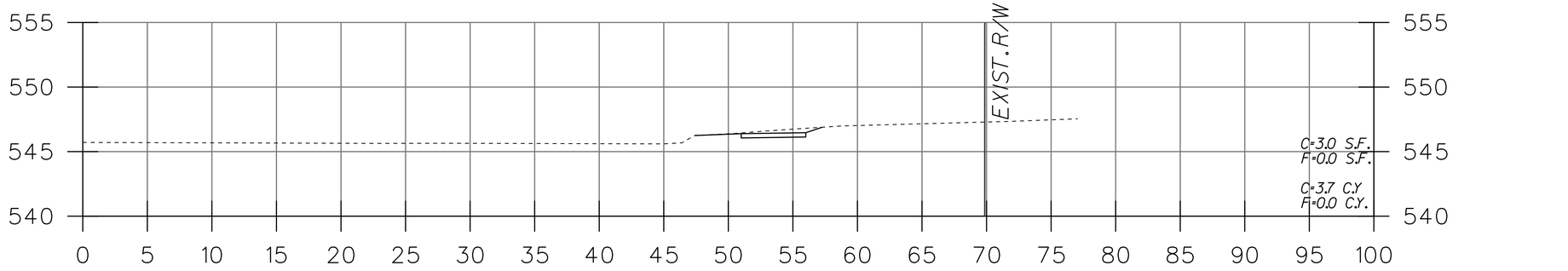

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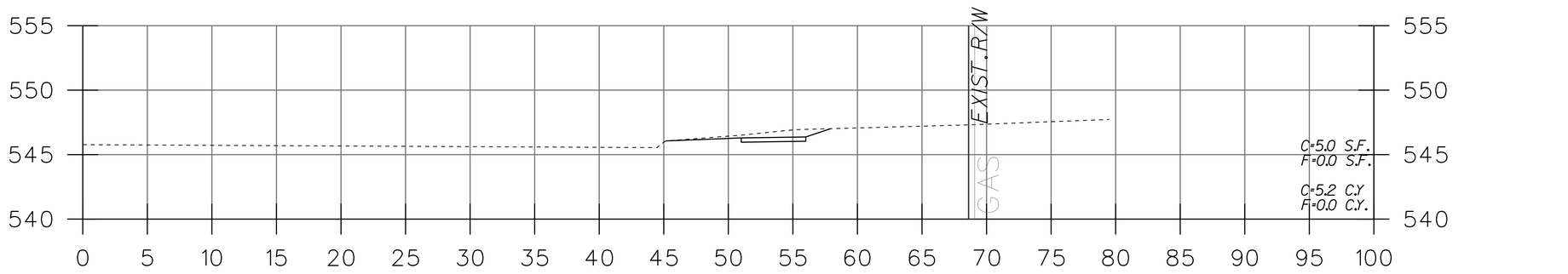

115+00.00

COUNTY PROJECT NO.
AR-1857

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TAP-9901(685)

E-W GATEWAY TIP NO.
7247G-24

MSD:
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MSD BASE MAP:
07H4

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1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8343

JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

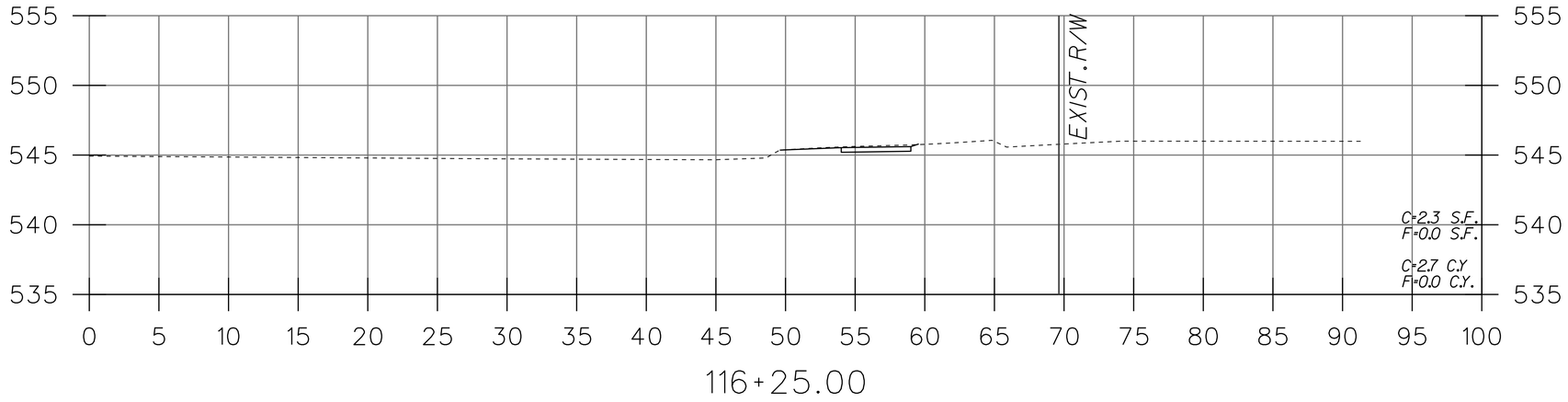
CROSS SECTIONS (11 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 22 OF 27



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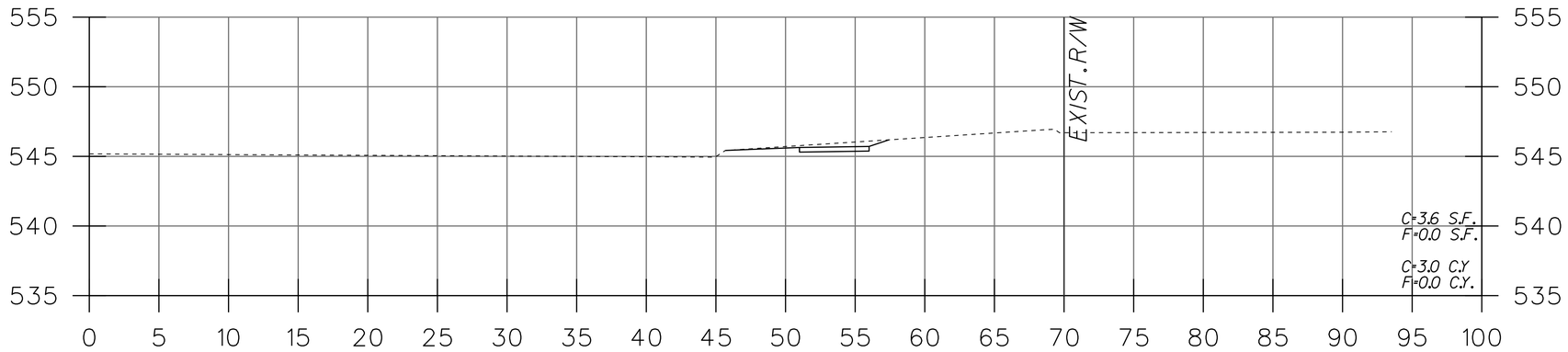

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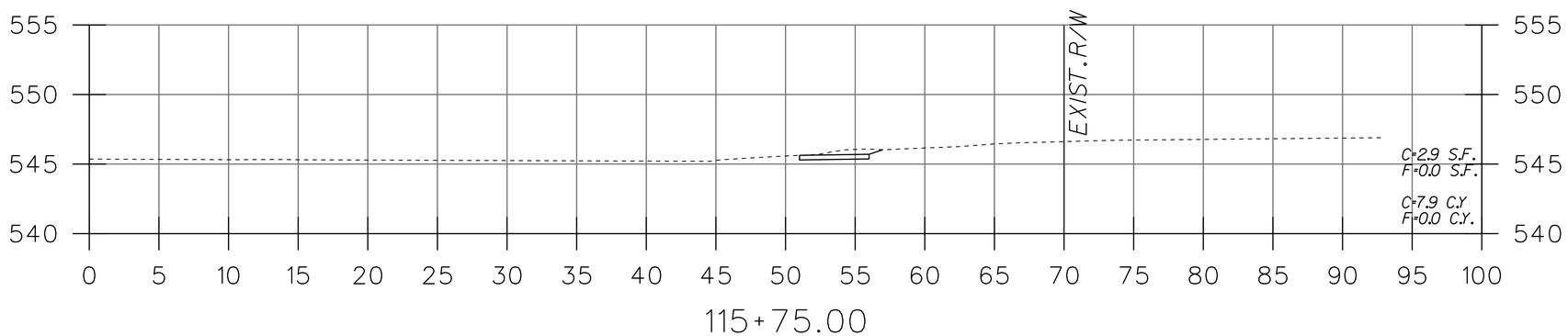

115+75.00

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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

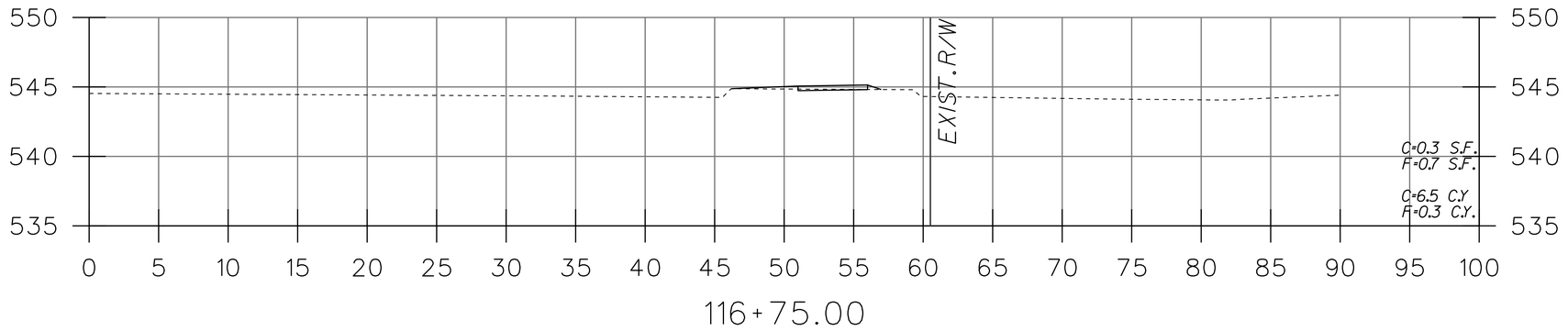
CROSS SECTIONS (12 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 23 OF 27



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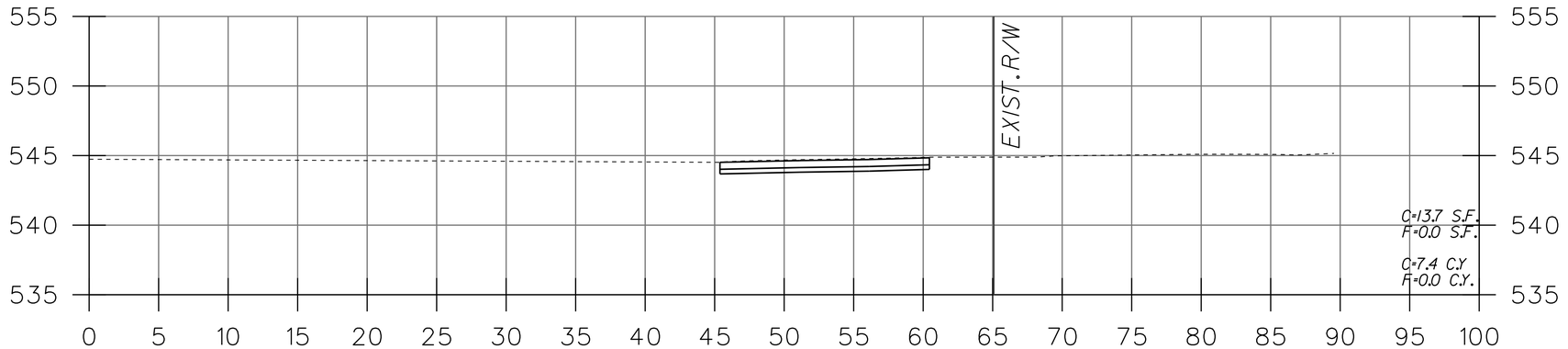

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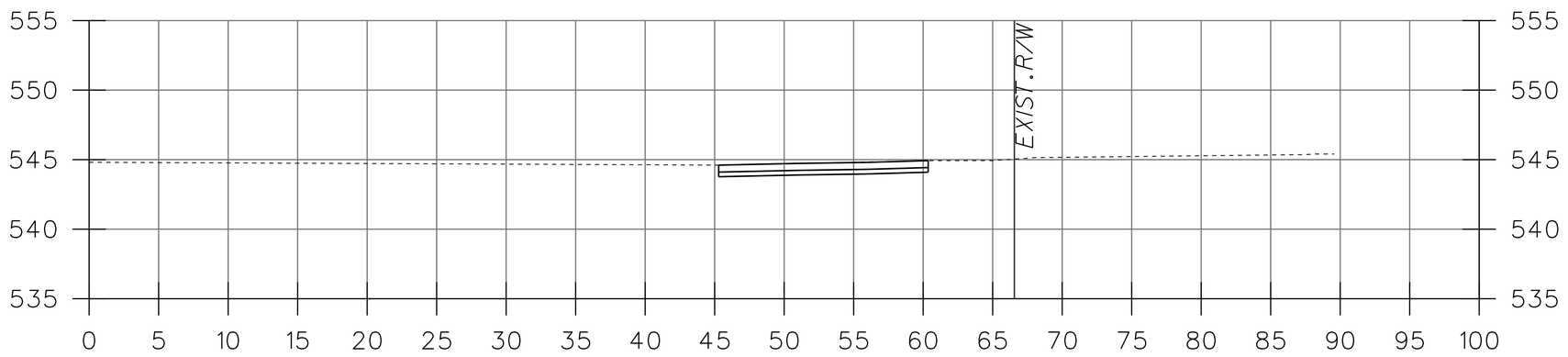

116+41.86 DRIVE APPROACH @VERIZON PLAZA

COUNTY PROJECT NO.
AR-1857

FEDERAL PROJECT NO.
TAP-9901(685)

E-W GATEWAY TIP NO.
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JEFF DAVIS
PROFESSIONAL ENGINEER
LICENSE NO. 2007020255

SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

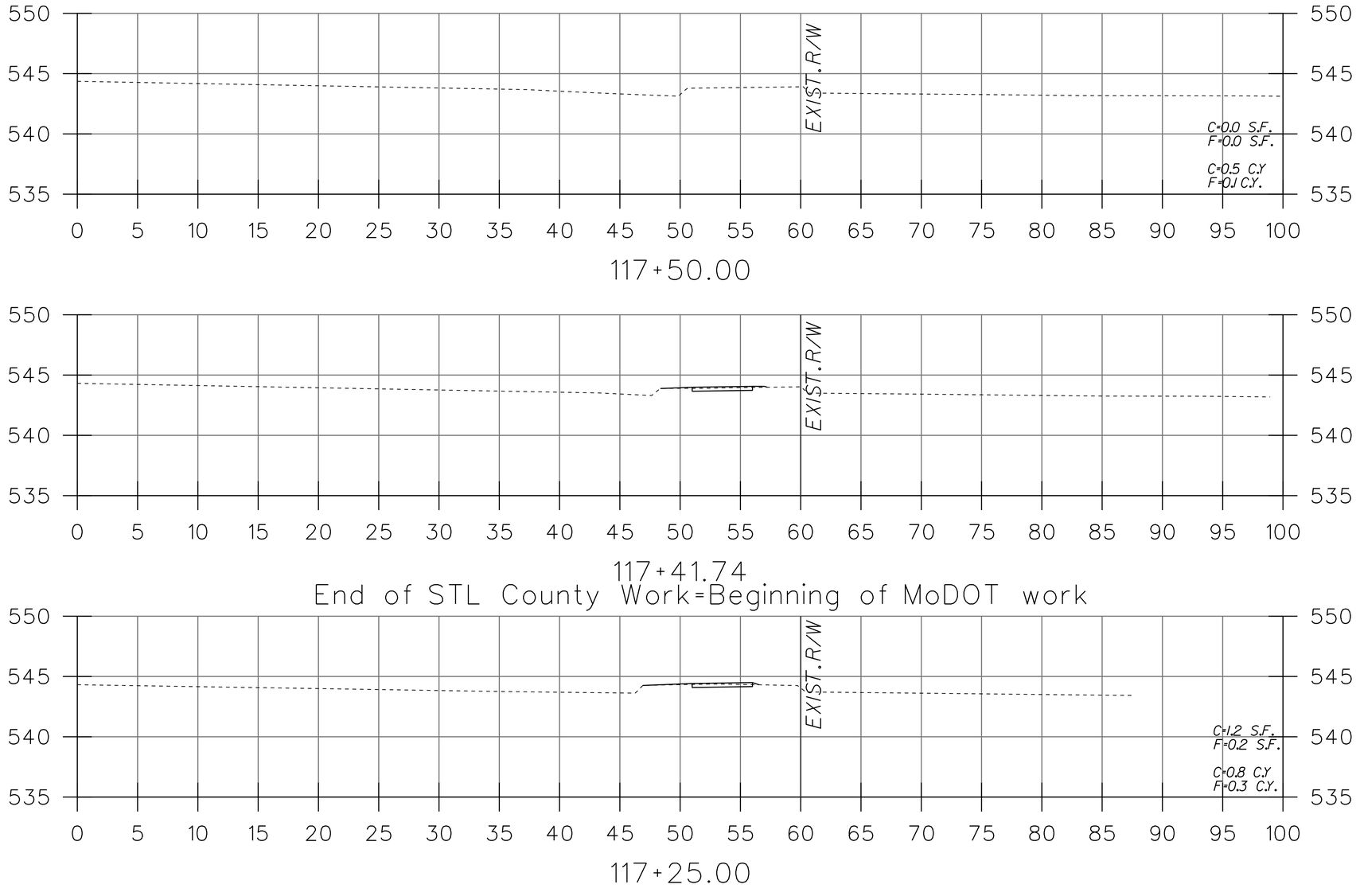
CROSS SECTIONS (13 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 24 OF 27



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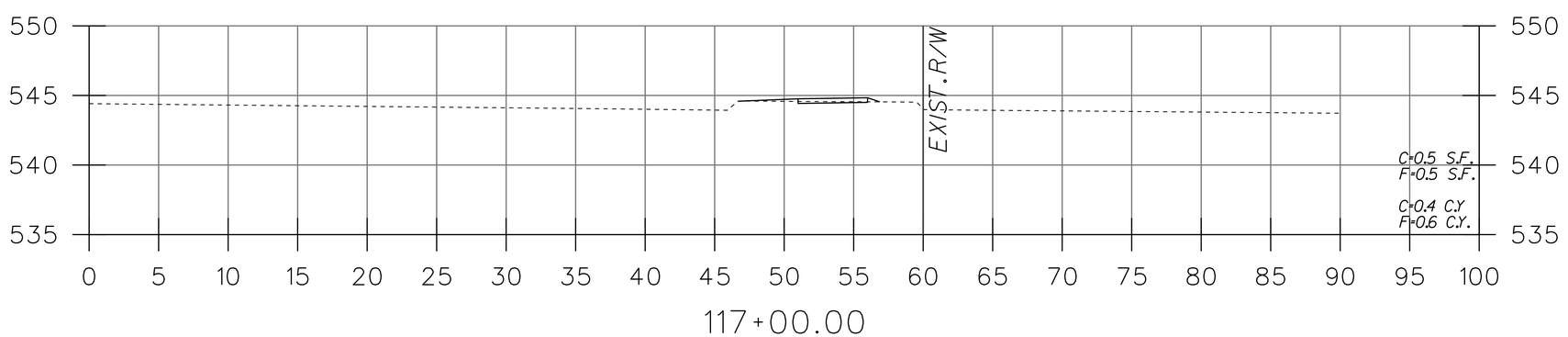
117+41.74

End of STL County Work=Beginning of MoDOT work

117+25.00



117+00.00

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SAINT LOUIS COUNTY
Missouri

NEW HALLS FERRY ROAD SIDEWALK

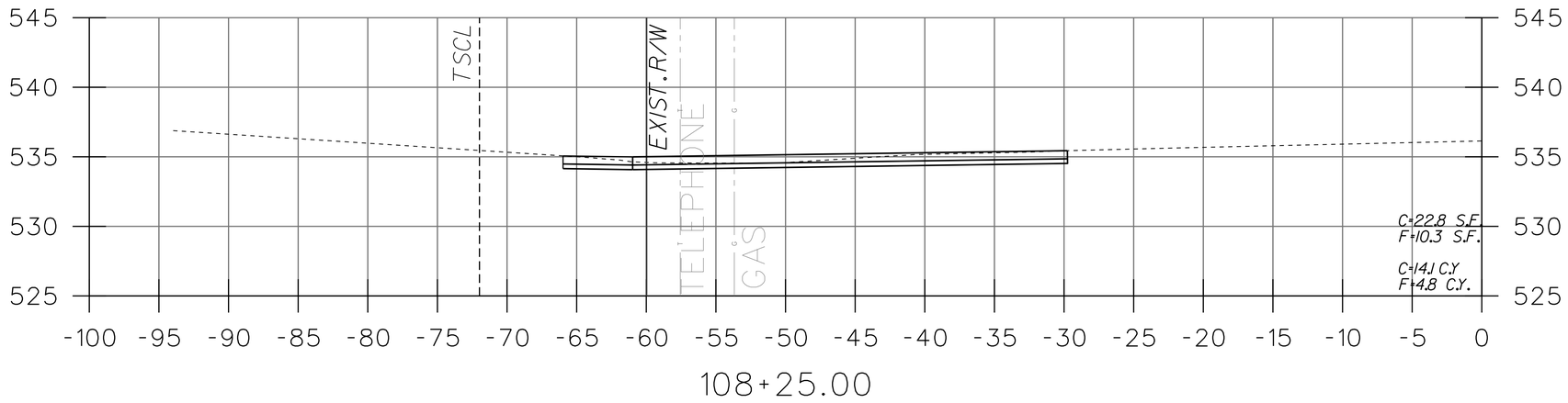
CROSS SECTIONS (14 OF 16)

DESIGNED: K. J. JONES

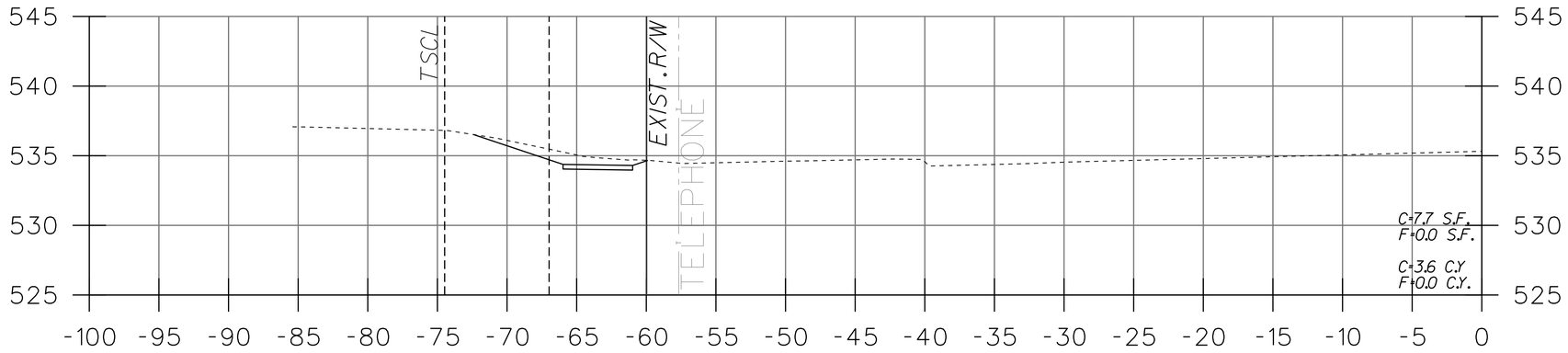
DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 25 OF 27



108+25.00



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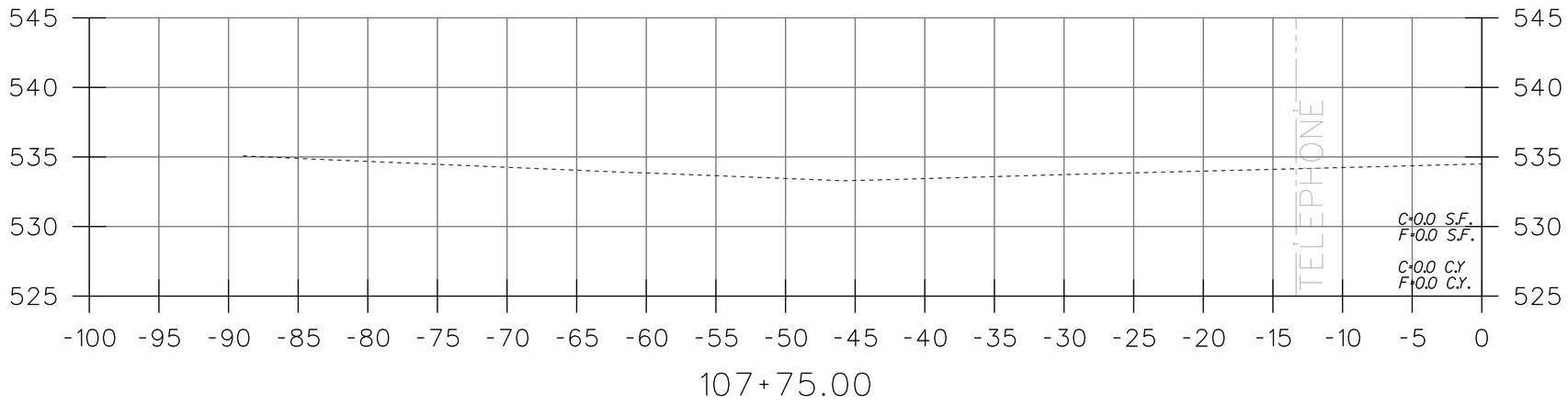

107+75.00

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Missouri

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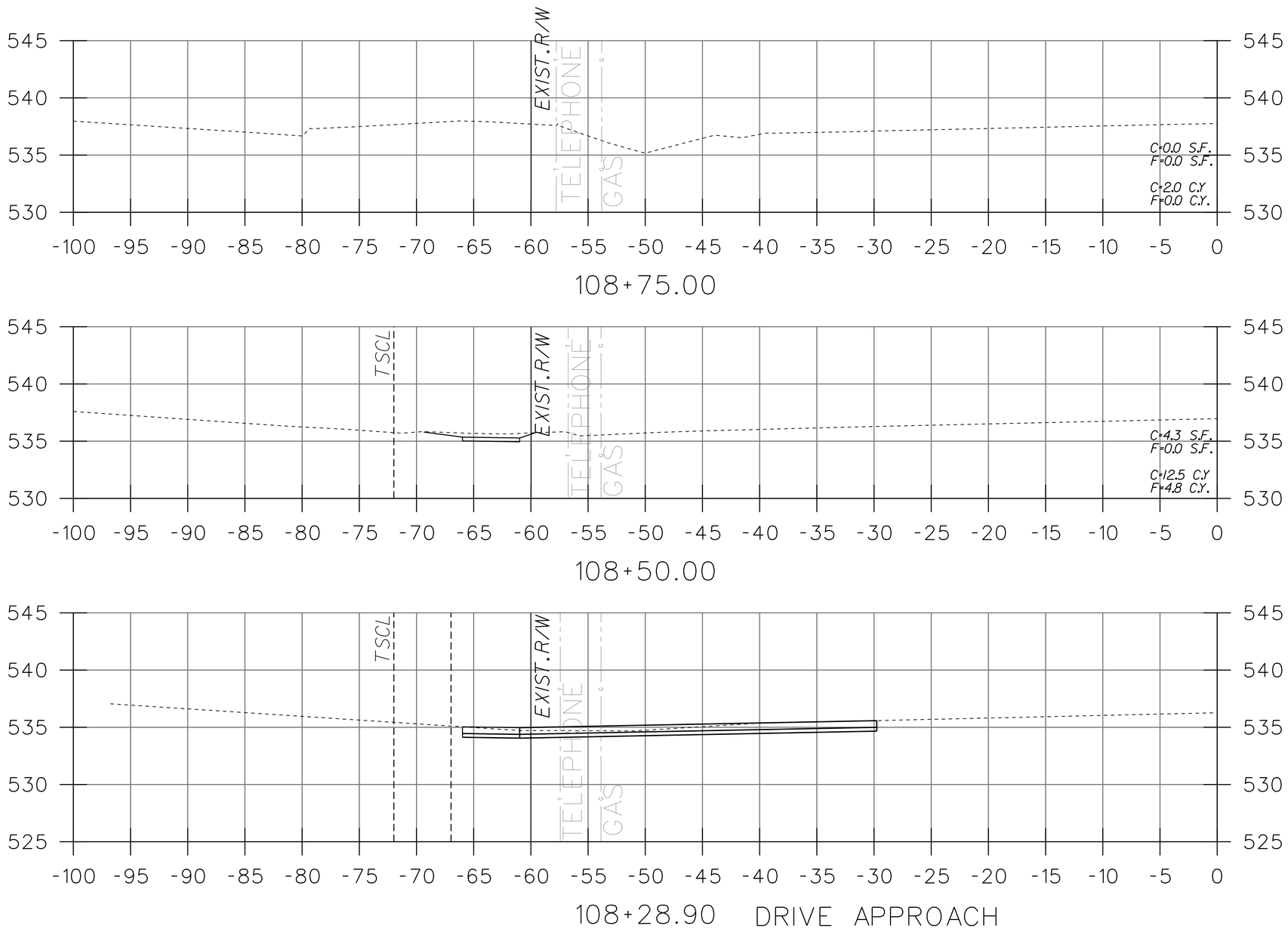
CROSS SECTIONS (15 OF 16)

DESIGNED: K. J. JONES

DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE: 26 OF 27



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Missouri

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CROSS SECTIONS
(16 OF 16)

DESIGNED: K. J. JONES

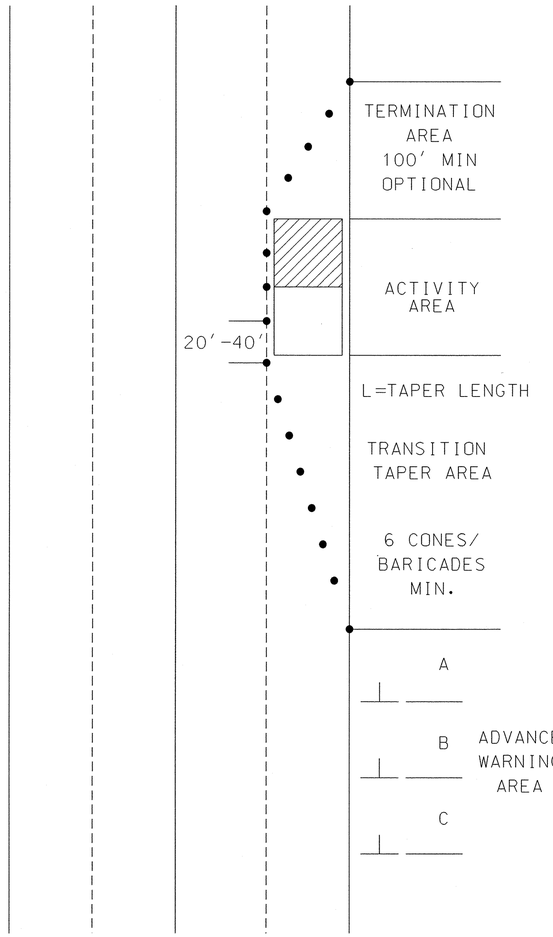
DRAWN: K. J. JONES

CHECKED: J. DAVIS

SHEET SEQUENCE:
27 OF 27

TYPICAL WORK ZONE

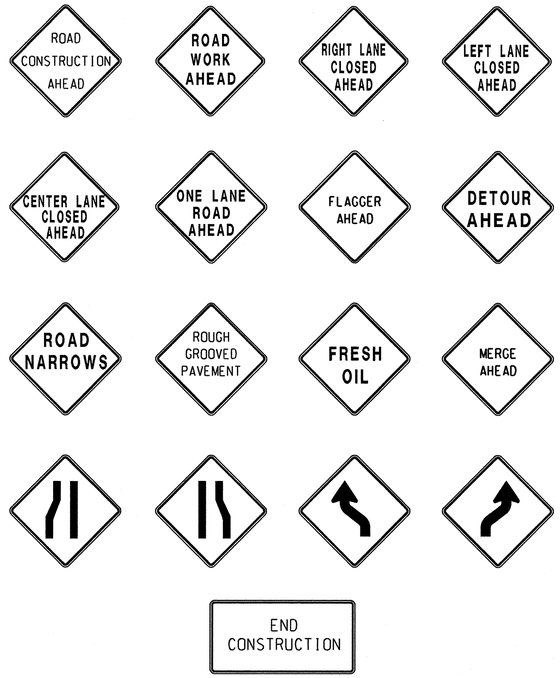
DAY -- CONES OVERNIGHT -- BARRICADES



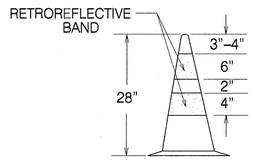
SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100'	100'	100'
35-45	350'	350'	350'
50+	1,000'	1,500'	2,640'

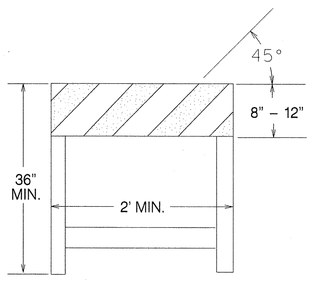
TAPER LENGTH BY SPEED LIMIT					
SPEED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH
TAPER	120'	180'	240'	300'	540'

TYPICAL TRAFFIC CONTROL DEVICES









TYPE 1 BARRICADE

FLAGGING METHOD



TO STOP TRAFFIC



TRAFFIC PROCEED



TO ALERT AND SLOW TRAFFIC

LEGEND

S/L	SPEED LIMIT
L	TAPER LENGTH
	TRUCK WITH HEADLIGHTS AND FLASHING WARNING LIGHTS ON
	BUFFER SPACE
	REPAIR AREA
	FLAGGER
	SIGN
20'-40'	CONES/ BARRICADES
	BARRICADE
	ARROW PANEL

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

MSD:

MSD BASE MAP:

REVISIONS

REV	DATE	BY	APP	DESCRIPTION

DISCLAIMER OF RESPONSIBILITY: I hereby specify that the documents intended to be authorized by my seal are limited to the plans and I hereby disclaim any responsibility for all other Bidding Documents, Specifications, Estimates, Reports or other documents or instruments issued by me or prepared to be issued by me pertaining to the engineering project or survey

STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8543

JOSEPH W KULESSA
PROFESSIONAL ENGINEER
LICENSE NO. 2010000841

Saint Louis COUNTY
TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreisewerd, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (1 OF 7)

DESIGNED: JAB

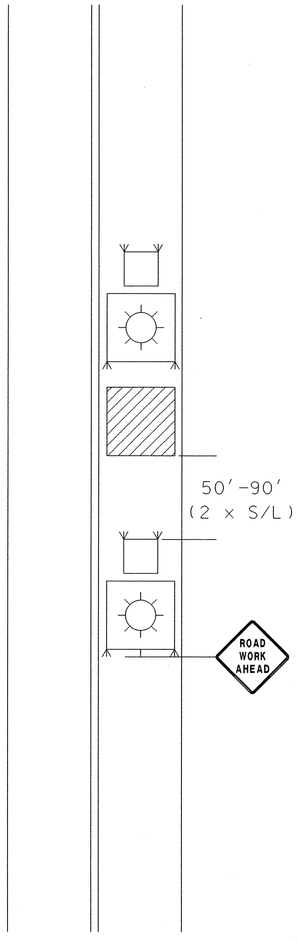
DRAWN: JAB

CHECKED: JWK

SHEET SEQUENCE:

ARTERIAL ROAD - TWO-FIVE LANES

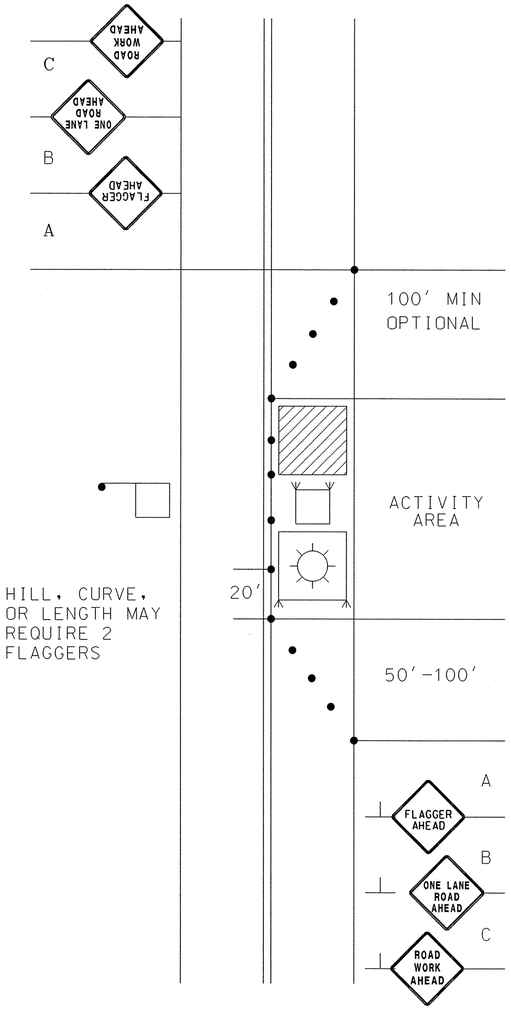
SLOW MOVING OPERATION (UNDER 1 HOUR)



NOTE: FOR USE ON CONCRETE REPLACEMENT WORK AT INTERSECTIONS WITH ARTERIAL ROADS.

ARTERIAL ROAD - TWO LANE

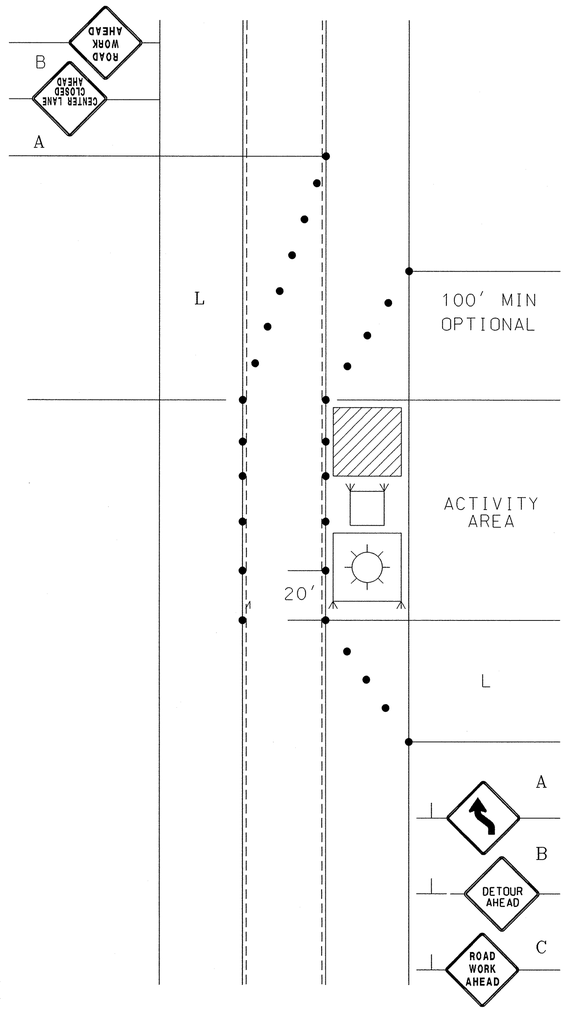
WORK OVER 1 HOUR



SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

ARTERIAL ROAD - THREE LANE

WORK OVER 1 HOUR
DAY -- CONES OVERNIGHT -- BARRICADES



SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
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35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

TAPER LENGTH SPEED LIMIT					
SPEED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH
TAPER	120′	180′	240′	300′	540′

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

MSD:

MSD BASE MAP:

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STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
DESIGN DIVISION
1050 H.J. MIRCHER BLVD.
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JOSEPH W KULESSA
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LICENSE NO. 2010000841

Saint Louis COUNTY
TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreiseward, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (2 OF 7)

DESIGNED: JAB

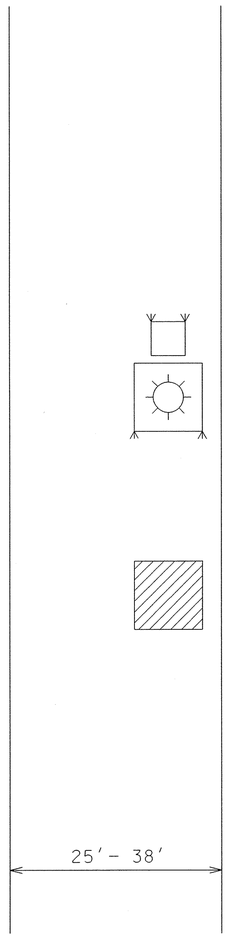
DRAWN: JAB

CHECKED: JWK

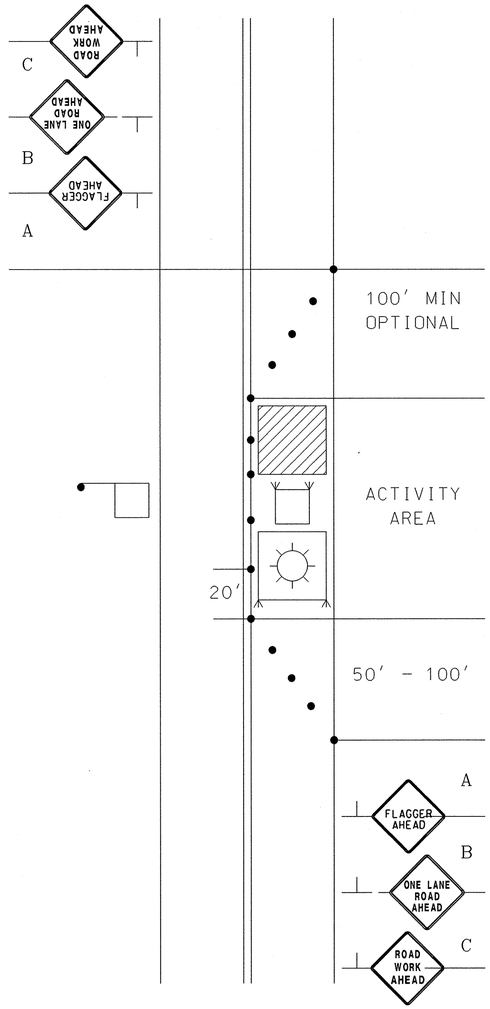
SHEET SEQUENCE:

COUNTY ROAD (25-30 MPH S/L)

SLOW MOVING OPERATION (UNDER 1 HOUR)

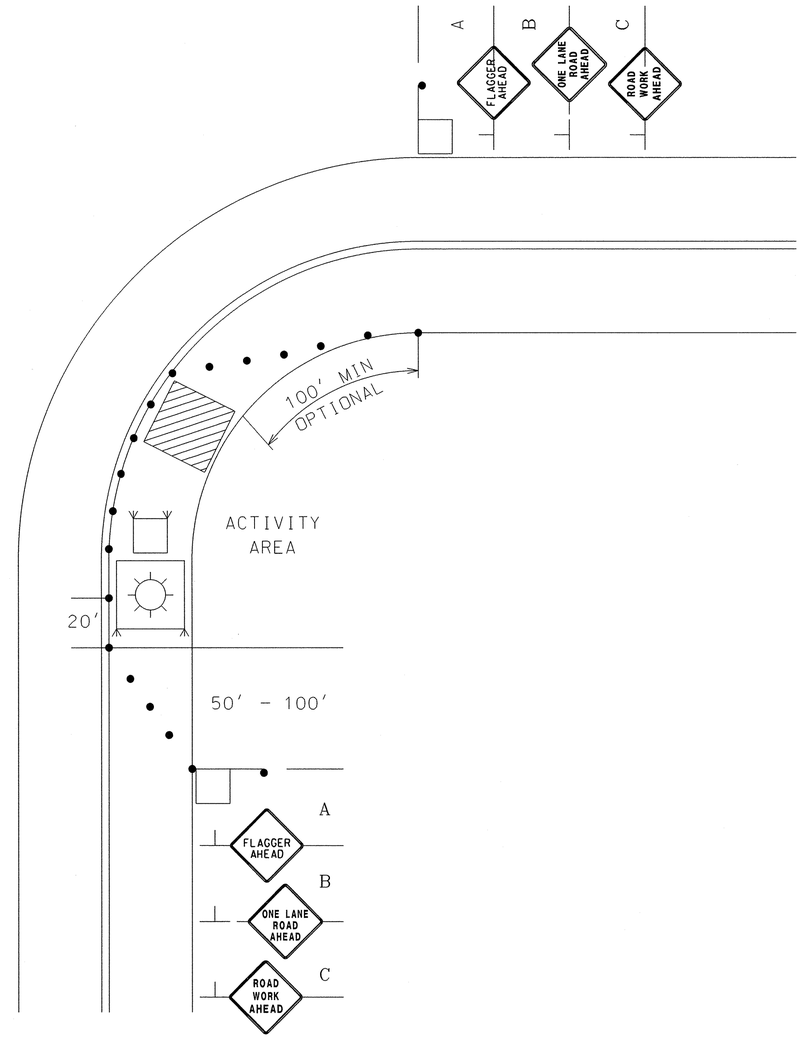


TYPICAL ONE FLAGGER OPERATION



SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

TYPICAL TWO FLAGGER OPERATION



SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
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35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

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STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
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1050 N. LINDBERGH BLVD.
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(314) 615-8543

JOSEPH W KULESSA
PROFESSIONAL ENGINEER
LICENSE NO. 2010000841

Saint Louis COUNTY
TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreisewerd, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (3 OF 7)

DESIGNED: JAB

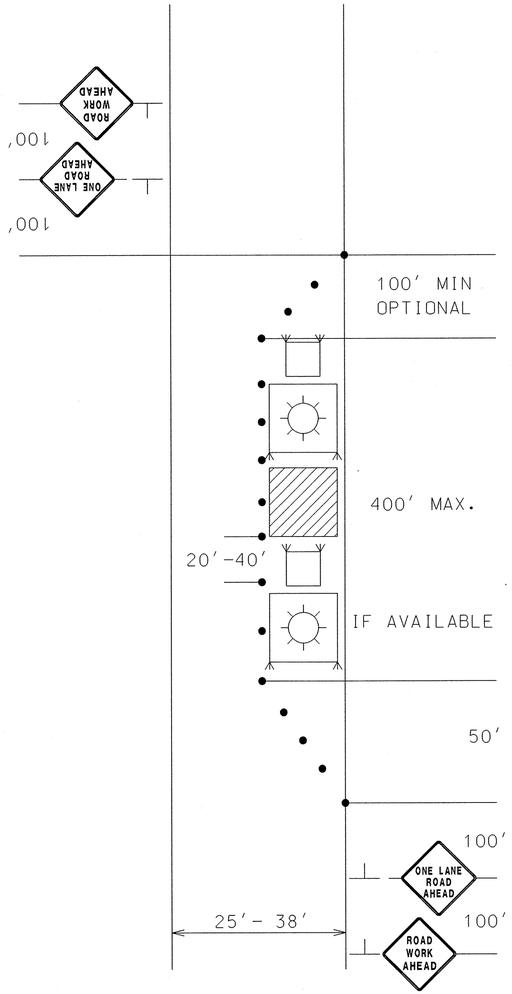
DRAWN: JAB

CHECKED: JWK

SHEET SEQUENCE:

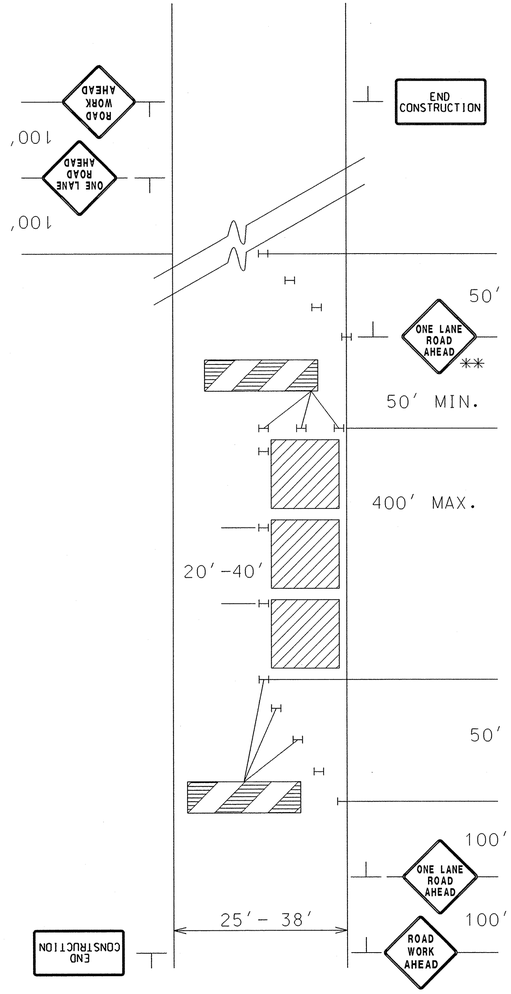
COUNTY ROAD (25-30 MPH S/L)

WORK OVER 1 HOUR



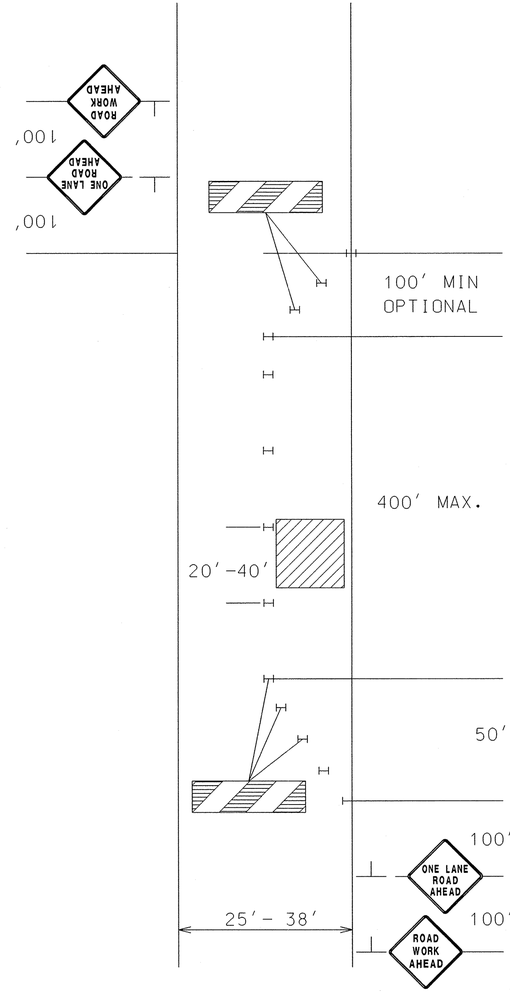
COUNTY ROAD (25-30 MPH S/L)

SLAB REPLACEMENT - OVERNIGHT



COUNTY ROAD (25-30 MPH S/L)

OVERNIGHT - USE BARRICADES



** Sign needed when gap exceeds 500 ft.

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

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STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER
PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
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ST. LOUIS, MISSOURI 63132
(314) 615-8543

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TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreiseweerd, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (4 OF 7)

DESIGNED: JAB

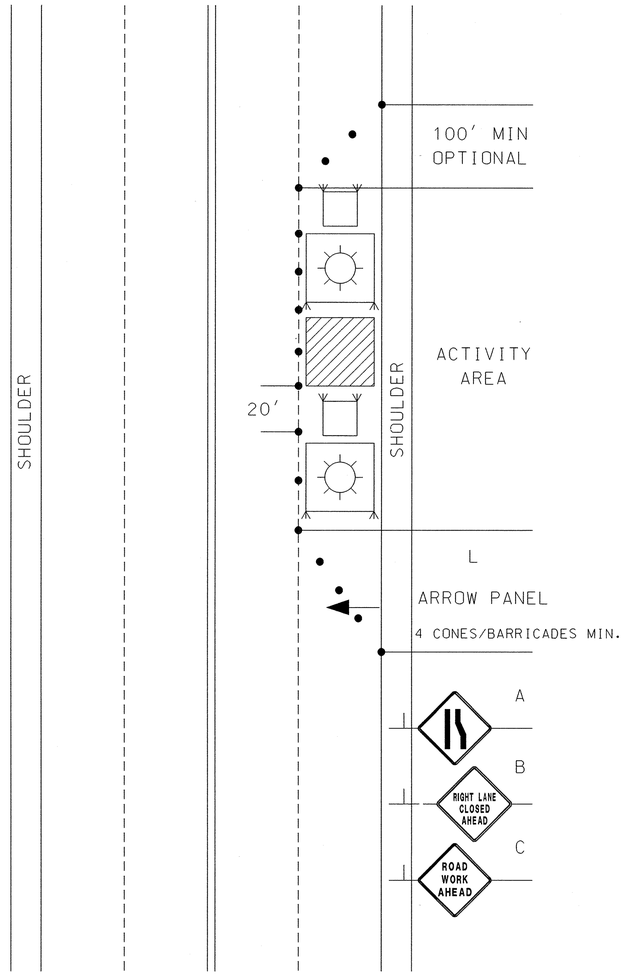
DRAWN: JAB

CHECKED: JWK

SHEET SEQUENCE:

ARTERIAL ROAD
FOUR-FIVE LANES

WORK OVER 1 HOUR
DAY -- CONES OVERNIGHT -- BARRICADES

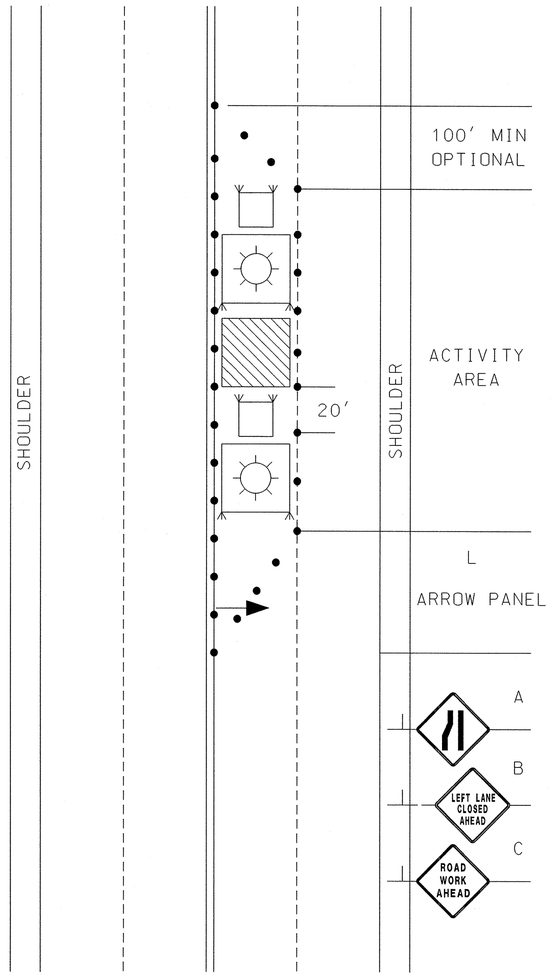


SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

TAPER LENGTH BY SPEED LIMIT					
SPEED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH
TAPER	120′	180′	240′	300′	540′

ARTERIAL ROAD
FOUR-FIVE LANES

WORK OVER 1 HOUR
DAY -- CONES OVERNIGHT -- BARRICADES

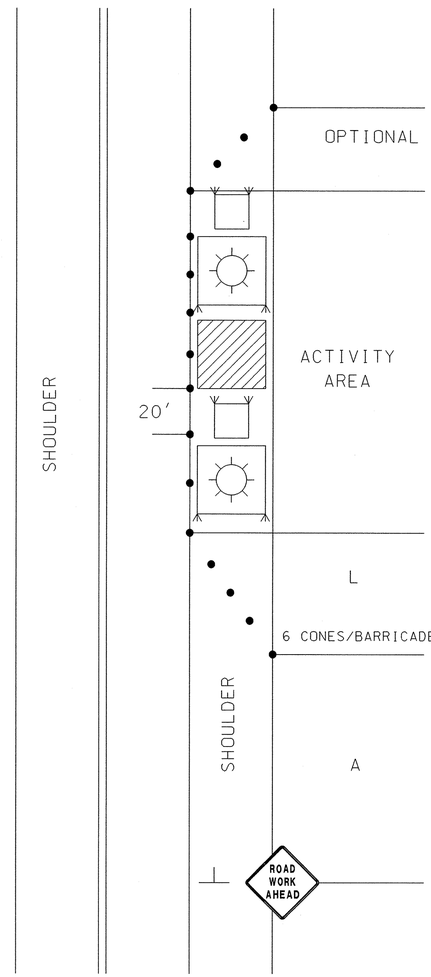


SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

TAPER LENGTH BY SPEED LIMIT					
SPEED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH
TAPER	120′	180′	240′	300′	540′

SHOULDER WORK
TWO-FIVE LANES

WORK OVER 1 HOUR
DAY -- CONES OVERNIGHT -- BARRICADES



SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

SHOULDER TAPER LENGTH BY SPEED LIMIT					
SPEED	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH
TAPER	40′	60′	80′	100′	180′

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

MSD:

MSD BASE MAP:

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STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER
PE-2010020841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
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1050 N. LINDBERGH BLVD.
1ST FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-8543

JOSEPH W KULESSA
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LICENSE NO. 2010000841

Saint Louis COUNTY
TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreiseward, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (5 OF 7)

DESIGNED: JAB

DRAWN: JAB

CHECKED: JWK

SHEET SEQUENCE:

SCHEDULE
TEMPORARY LANE CLOSING REQUIREMENTS

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES			
SPEED (MPH)	DISTANCE BETWEEN SIGNS		
	A	B	C
0-30	100′	100′	100′
35-45	350′	350′	350′
50+	1,000′	1,500′	2,640′

The "A" dimension is the distance from the beginning of the transition, or point of restriction, to the first sign. The "B" dimension is the distance between the first and second signs. The "C" dimension is the distance between the second and third signs. (The "first sign" is the sign in a three sign series that is closest to the activity area. The "third sign" is the sign that is furthest upstream from the activity area.)

TYPE OF TAPER	TAPER LENGTH
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO WAY TRAFFIC TAPER	50′ MIN., 100′ MAX.
DOWNSTREAM TAPER	50′ MIN., 100′ MAX.

NOTES: 1) $L=WS^2/60$ (SPEEDS OF 40 MPH OR LESS)
$L=WS$ (SPEEDS OF 45 MPH OR GREATER)
TAPER LENGTHS SHOWN ARE ROUNDED TO THE NEAREST 5 FEET.

2) PRESCRIBED DISTANCES MAY BE VARIED WITH APPROVAL OF THE DEPARTMENT OF TRANSPORTATION

RECOMMENDED TAPER LENGTH AND DEVICE SPACING FOR CHANNELIZING TAPERS				
APPROACH SPEED OF TRAFFIC (MPH)	MINIMUM TAPER LENGTH FOR LANE WIDTHS			MAXIMUM DEVICE SPACING (IN FEET)
	10 FT.	11 FT.	12 FT.	
20	70	75	80	20
25	105	115	125	25
30	150	165	180	30
35	205	225	245	35
40	265	295	320	40
45	450	495	540	45
50	500	550	600	50
55	550	605	660	55
60	600	660	720	60
65	650	715	780	65

RECOMMENDED MAXIMUM SPACING OF CHANNELIZING DEVICES AT CURVES					
CURVATURE		SPACING ON CURVE (IN FEET)	SPACING IN ADVANCE OF AND BEYOND CURVE (IN FEET)		
DEGREE OF CURVE	RADIUS (IN FEET)		1ST.	2ND.	3RD.
Tangent-1/2°	11,500	100	100	100	100
1/2°-2°	11,500-2,860	75	85	100	100
2°-4°	2,860-1,430	60	70	80	100
4°-8°	1,430-715	50	60	70	80
8°-16°	715-360	40	50	60	70
16-40°	360-140	20	30	50	70

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

MSD:

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JOSEPH W. KULESSA
NUMBER
PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
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4TH FLOOR
ST. LOUIS, MISSOURI 63132
(314) 615-5543

JOSEPH W.KULESSA
PROFESSIONAL ENGINEER
LICENSE NO. 2010000841

Saint Louis COUNTY TRANSPORTATION PUBLIC WORKS
Daniel W. Dreiseward, P.E., PTOE
Acting Director

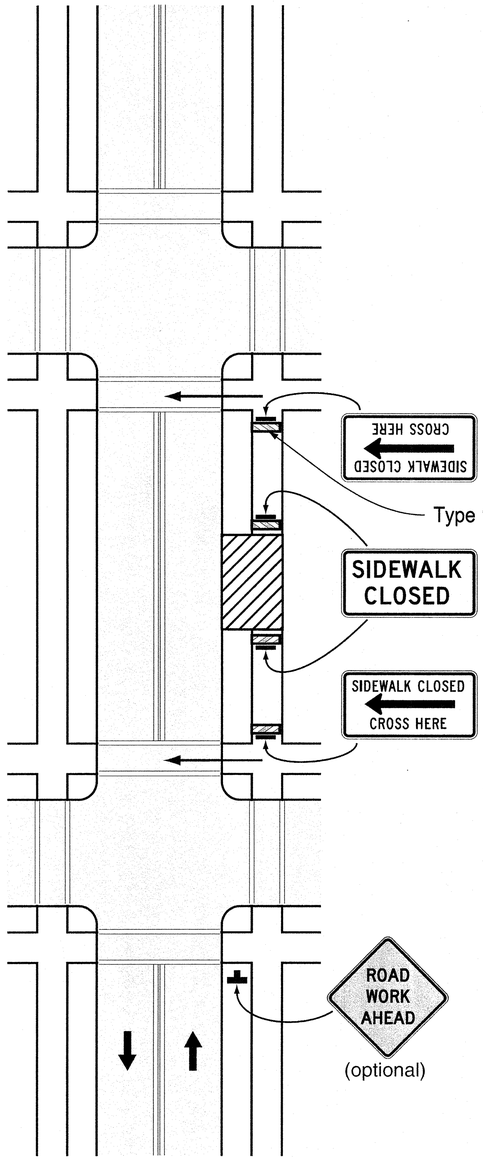
TRAFFIC CONTROL
SHEET (6 OF 7)

DESIGNED: JAB

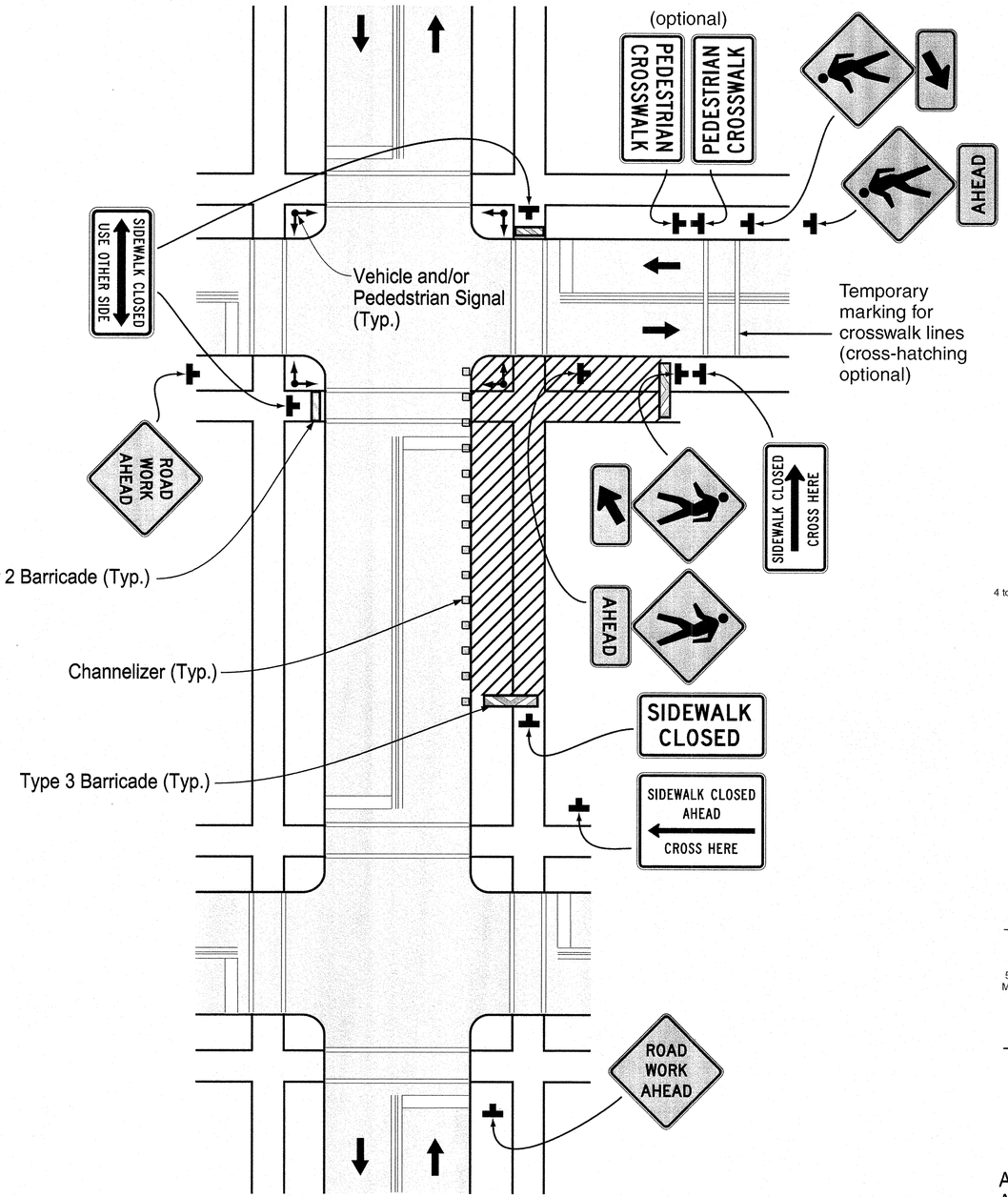
DRAWN: JAB

CHECKED: JWK

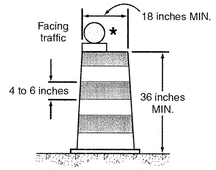
SHEET SEQUENCE:



Sidewalk Detour

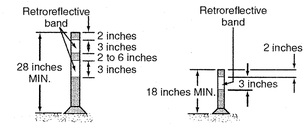


Crosswalk Closures and Pedestrian Detours



DRUM

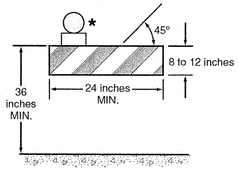
Channelizing Devices



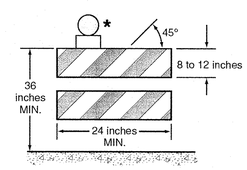
Night and/or freeway
High-speed roadway
(≥ 45 mph)

Day and low-speed
roadway (≤ 40 mph)

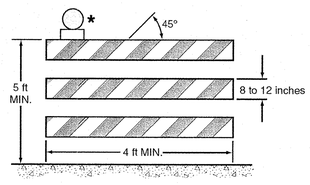
TUBULAR MARKERS



TYPE 1 BARRICADE **



TYPE 2 BARRICADE **



TYPE 3 BARRICADE **

* Warning lights (optional)
** Rail stripe widths shall be 6 inches, except that 4-inch wide stripes may be used if rail lengths are less than 36 inches. The sides of barricades facing traffic shall have retroreflective rail faces.

ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TEMPORARY TRAFFIC MARKINGS SHALL BE REFLECTIVE TAPE

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATION OF CONSTRUCTION SIGNS

COUNTY PROJECT NO.

FEDERAL PROJECT NO.

E-W GATEWAY TIP NO.

MSD:

MSD BASE MAP:

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STATE OF MISSOURI
JOSEPH W. KULESSA
NUMBER PE-2010000841
PROFESSIONAL ENGINEER

DATE: 05/30/2017

PREPARED BY:
DESIGN DIVISION
1050 N. LINDBERGH BLVD.
ST. LOUIS, MISSOURI 63132
(314) 615-8543

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LICENSE NO. 2010000841

Saint Louis COUNTY
TRANSPORTATION
PUBLIC WORKS
Daniel W. Dreiswerd, P.E., PTOE
Acting Director

TRAFFIC CONTROL
SHEET (7 OF 7)

DESIGNED: JAB

DRAWN: JAB

CHECKED: JWK

SHEET SEQUENCE: