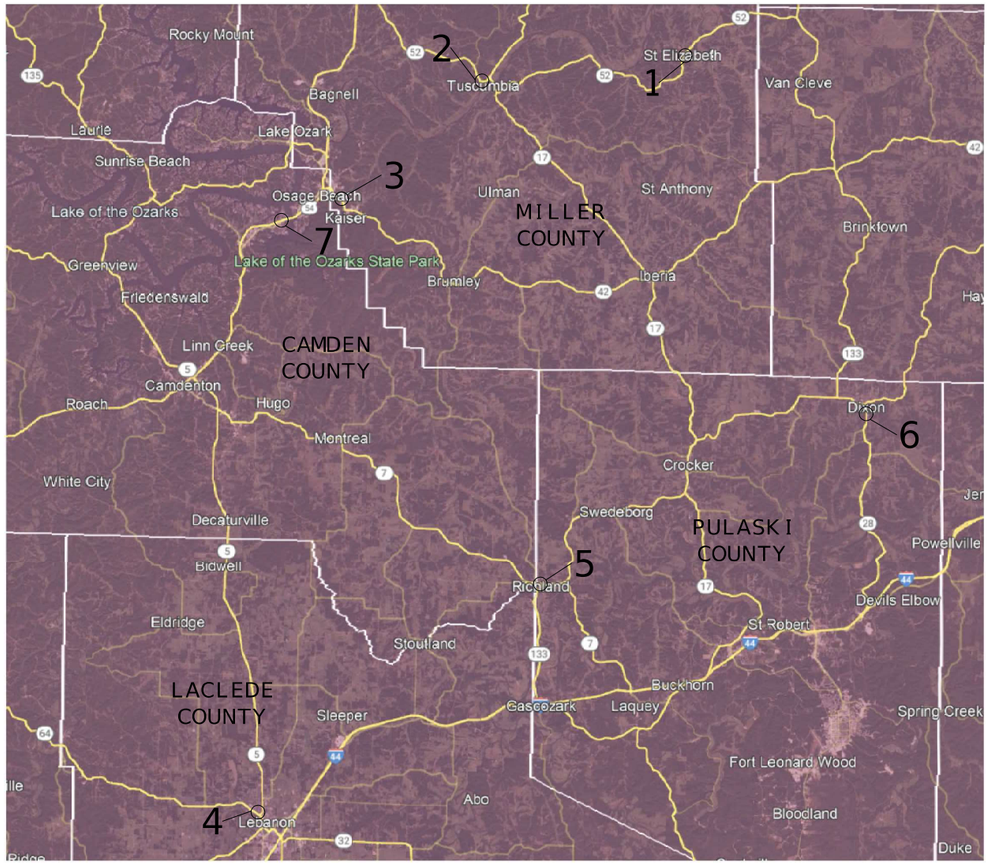
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

MILLER, LACLEDE, PULASKI, & CAMDEN COUNTIES

ADA IMPROVEMENTS
SIDEWALKS, CURB RAMPS, PAVED APPROACHES, FULL DEPTH PAVEMENT,
& AUDIBLE PEDESTRIAN SIGNALS AT VARIOUS LOCATIONS

NOT TO SCALE



LOCATIONS

1-ST. ELIZABETH, ROUTE 52 FROM WALNUT ST TO 225' E/O JEFFERSON ST
2-TUSCUMBIA, INTERSECTION OF ROUTE 52 AND HIGH ST
3-OSAGE BEACH, INTERSECTION OF ROUTE 42 AND SCHOOL OF THE OSAGE
4-LEBANON, ROUTE 64 FROM BENNETT ST TO 142' E/O ROUTE 5, ROUTE 5 FROM ROUTE 64 TO ADAMS AVE
5-RICHLAND, ROUTE 7 FROM ROUTE A TO 253' E/O WARREN ST
6-DIXON, ROUTE 28 FROM EAST A ST TO CHESTNUT ST
7-OSAGE BEACH, BUSINESS ROUTE 54 FROM ROUTE 54 EXPRESSWAY TO 220' W/O CASE RD

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.

DESIGN DESIGNATION

SEE FOLLOWING TITLE LOCATION SHEETS

TEMPORARY CONSTRUCTION EASEMENTS REQUIRED

LOCATION 1 - ST. ELIZABETH, ROUTE 52
LOCATION 3 - OSAGE BEACH, ROUTE 42
LOCATION 4 - LEBANON, ROUTE 64 & ROUTE 5
LOCATION 6 - DIXON, ROUTE 28

PERMANENT EASEMENTS REQUIRED

LOCATION 1 - ST. ELIZABETH, ROUTE 52
LOCATION 4 - LEBANON, ROUTE 64 & ROUTE 5
LOCATION 6 - DIXON, ROUTE 28

NO ACQUISITIONS REQUIRED

LOCATION 2 - TUSCUMBIA, ROUTE 52
LOCATION 5 - RICHLAND, ROUTE 7
LOCATION 7 - OSAGE BEACH, BUSINESS ROUTE 54

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
RETAINING WALL		
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~~
PIPES (CMP, PLASTIC, OR RCP)		

MANHOLE (SANITARY SEWER)	SAN
MANHOLE (STORM SEWER)	STORM
MANHOLE (TELEPHONE)	TMH
GAS VALVE	GV
FIRE HYDRANT	HYD
WATER VALVE	WV
WATER METER	WM
INLET	DI
MANHOLE (NEW STORM)	
DITCH BLOCK	
GROUND MOUNTED SIGN	SIGN
LIGHT POLE	PP
POWER POLE	
POWER & LIGHT POLE	P&L
GUY POLE	GUY
TELEPHONE RISER	T RISER
PULL BOX	
H-FRAME POWER POLE	
TELEPHONE PEDESTAL	PED
FENCE	
CHAIN LINK	-V-
WOVEN WIRE	-X-
GATE POST	
PED. FENCE OR HANDRAIL (NEW)	
BENCHMARK	BM

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET (TL) (3 SHEETS)	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (14 SHEETS)	3
PLAN (PL) (13 SHEETS)	4-16
RIGHT OF WAY (RW) (8 SHEETS)	17-24
REF/COORD POINTS (CP) (4 SHEETS)	25-28
SPECIAL SHEETS (SS) (11 SHEETS)	29-39
TRAFFIC CONTROL (TC) (5 SHEETS)	40-44
EROSION CONTROL (EC) (1 SHEET)	45
SIGNAL SHEETS (SG) (24 SHEETS)	46-69

DISPOSITION OF FEATURES

(USED IN PLANS)

TEMPORARY CONSTRUCTION EASEMENT	T.C.E.
EASEMENT	ESM'T
TENTATIVE	TENT.
PERMANENT	PERM.
EXISTING	EX./EXIST.
PROPOSED	PROP.
REMOVE	R
REMOVE & REPLACE	RR
REMOVE & RELOCATE	R&RELOC
REMOVE & RELOCATE BY OTHERS	R&RELOCBO
DO NOT DISTURB	DND
USE IN PLACE	UIP
ADJUST TO GRADE	ATG
PROFILE GRADE LINE	PGL
MANHOLE	MH
CRASHWORTHY END TERMINAL	CET

LENGTH OF PROJECT

BEGINNING OF PROJECT		
LOCATION 1 LENGTH		
ROUTE E	109.00	FEET
ROUTE 52	930.10	FEET
LOCATION 2 LENGTH	100.00	FEET
LOCATION 3 LENGTH	250.00	FEET
LOCATION 4 LENGTH		
ROUTE 64	500.00	FEET
ROUTE 5	460.40	FEET
LOCATION 5 LENGTH	100.00	FEET
LOCATION 6 LENGTH	1,195.00	FEET
LOCATION 7 LENGTH	1,812.10	FEET
END OF PROJECT		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	5,456.60	FEET
STATE LENGTH	1.033	MILES

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008609
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	1

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
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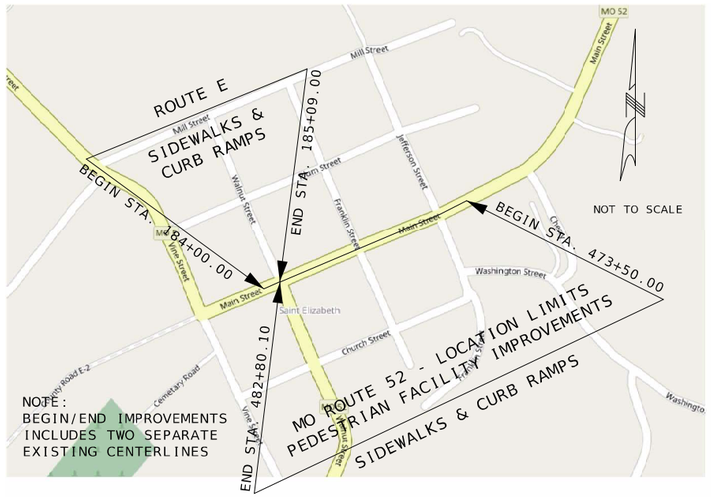
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

TITLE SHEET
ADA IMPROVEMENTS
SHEET 1 OF 3

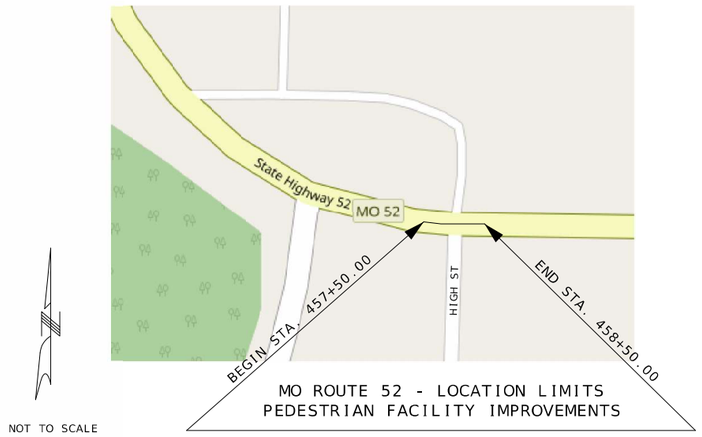
LOCATION MAP

MILLER COUNTY
A.A.D.T. - 2024 = 1122
A.A.D.T. - 2044 = 1379
V = 30 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR



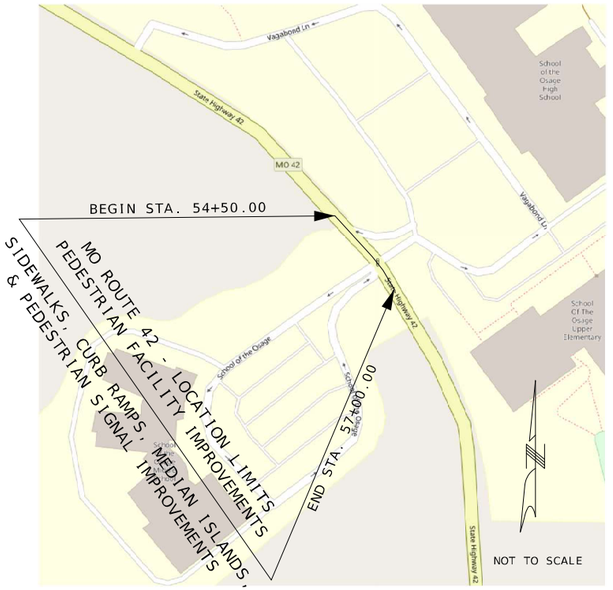
LOCATION 1:
ST. ELIZABETH, ROUTE 52 FROM WALNUT ST TO 225' E/O JEFFERSON ST

MILLER COUNTY
A.A.D.T. - 2024 = 2142
A.A.D.T. - 2044 = 2623
V = 25 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

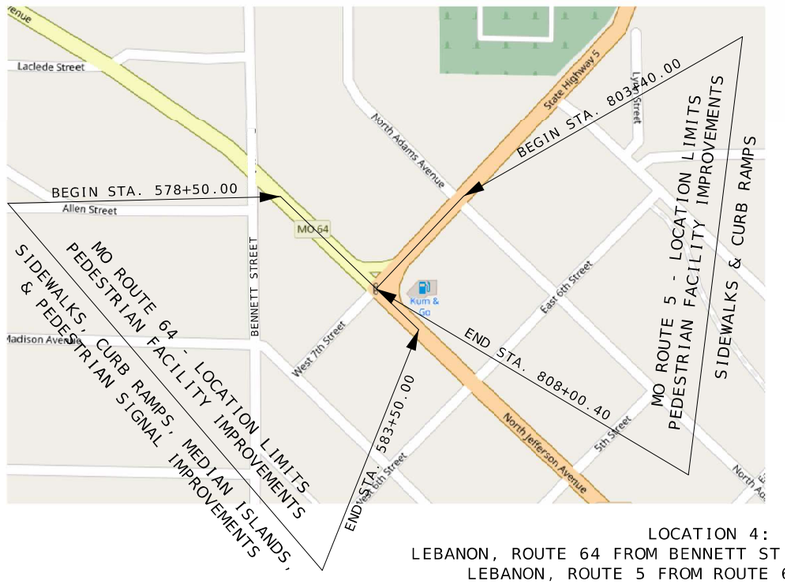


LOCATION 2:
TUSCUMBIA, INTERSECTION OF ROUTE 52 AND HIGH ST

MILLER COUNTY
A.A.D.T. - 2024 = 7977
A.A.D.T. - 2044 = 9737
V = 45 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL



LOCATION 3:
OSAGE BEACH, INTERSECTION OF ROUTE 42 AND SCHOOL OF THE OSAGE

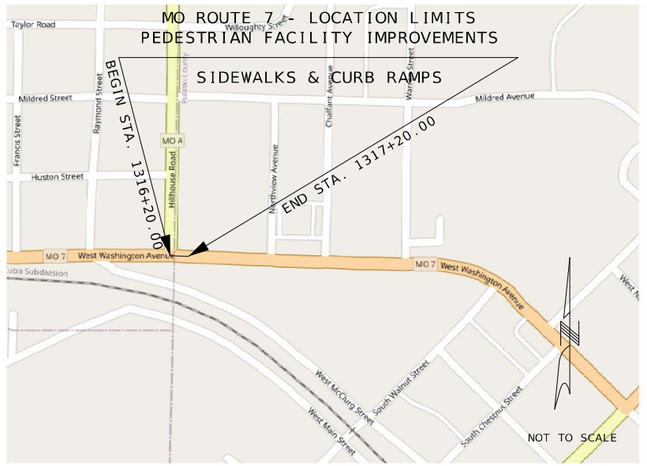


LACLEDE COUNTY
A.A.D.T. - 2024 = 20025
A.A.D.T. - 2044 = 24440
V = 35 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

NOTE:
BEGIN/END IMPROVEMENTS INCLUDES TWO SEPARATE EXISTING CENTERLINES

LOCATION 4:
LEBANON, ROUTE 64 FROM BENNETT ST TO 142' E/O ROUTE 5
LEBANON, ROUTE 5 FROM ROUTE 64 TO ADAMS AVE

PULASKI COUNTY
A.A.D.T. - 2024 = 3336
A.A.D.T. - 2044 = 4075
V = 25 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL



LOCATION 5:
RICHLAND, ROUTE 7 FROM ROUTE A TO 253' E/O WARREN ST

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	1

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
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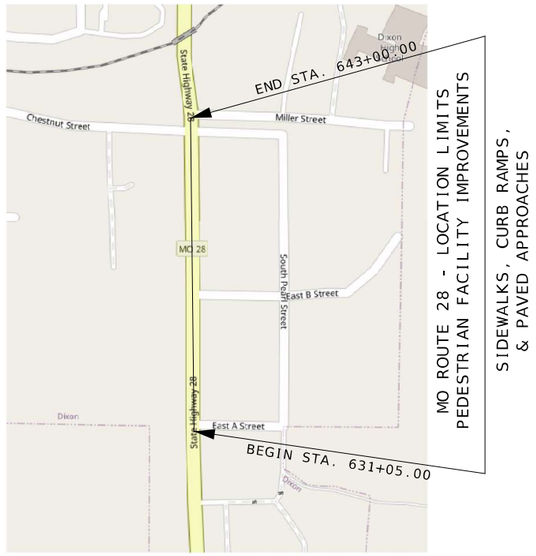
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

TITLE SHEET
ADA IMPROVEMENTS
SHEET 2 OF 3

LOCATION MAP

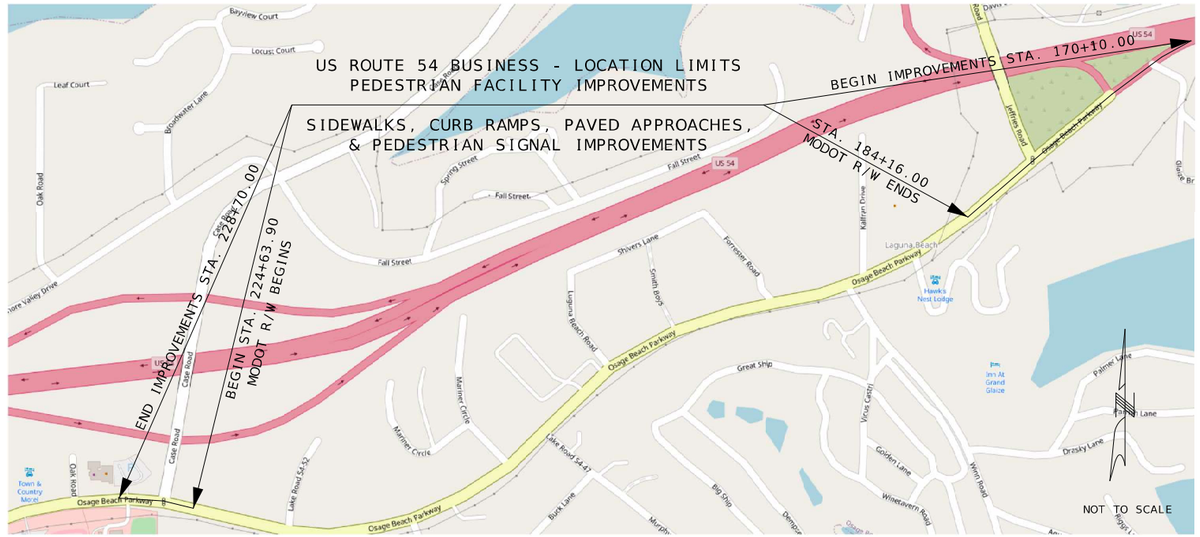
PULASKI COUNTY
A.A.D.T. - 2024 = 4539
A.A.D.T. - 2044 = 5540
V = 35 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL



NOT TO SCALE

LOCATION 6:
DIXON, ROUTE 28 FROM EAST A ST TO CHESTNUT ST

CAMDEN COUNTY
A.A.D.T. - 2024 = 6141
A.A.D.T. - 2044 = 7504
V = 45 M.P.H. (POSTED)
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR



NOT TO SCALE

LOCATION 7:
OSAGE BEACH, BUSINESS ROUTE 54 FROM ROUTE 54 EXPRESSWAY TO 220' W/O CASE RD

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 1
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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TITLE SHEET
ADA IMPROVEMENTS
SHEET 3 OF 3

SHEET NOTES:

TYPICAL SECTIONS TO BE USED IN CONJUNCTION WITH THE STANDARD PLANS.

ANY PAVED APPROACHES THAT THE ENGINEER FINDS TO NOT BE TECHINCALLY FEASIBLE MAY BE EXCLUDED AND NOTED AS AN ADA EXCEPTION. A TRANSITION IN CROSS SLOPE SHALL BE MADE FROM THE END OF THE CURB RAMP TO THE EXISTING CROSS SLOPE OF THE ENTRANCE.

UTILITIES, SIGNS, FIXED OBJECTS, OR CROSS SLOPE TRANSITIONS MAY NOT BE PLACED ON A CURB RAMP, OR IN A MANNER THAT INTERFERES WITH THE USE OF THE CURB RAMP.

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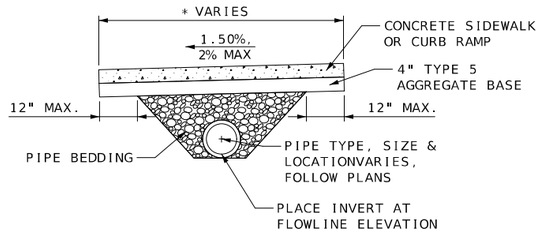
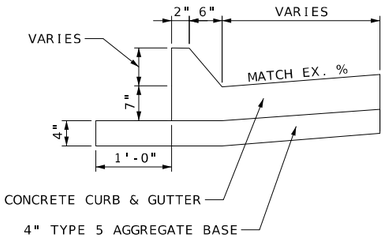


NOTES:
1. MINIMUM BACKFILL OVER TOP OF PIPE SHALL BE ONE-HALF DIAMETER OF PIPE OR 6 INCHES, WHICHEVER IS GREATER.
2. BEDDING OF LOOSE FILL SHALL BE ROUGHLY SHAPED TO FIT BOTTOM OF PIPE. MINIMUM THICKNESS BEFORE PLACING PIPE SHALL BE 1".
3. TRENCH INSTALLATIONS - 1 FOOT MINIMUM EACH SIDE OF PIPE. THIS RECOMMENDED LIMIT SHOULD BE MODIFIED AS NECESSARY TO ACCOUNT FOR VARIABLES SUCH AS POOR IN-SITU SOILS.

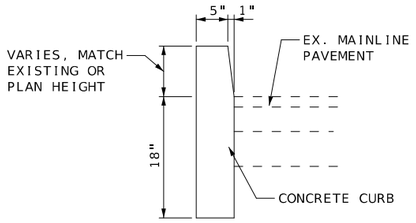
A — DETAIL: DRAINAGE PIPE UNDER SIDEWALK/CURB RAMP

* SEE PLANS FOR LOCATION AND WIDTHS



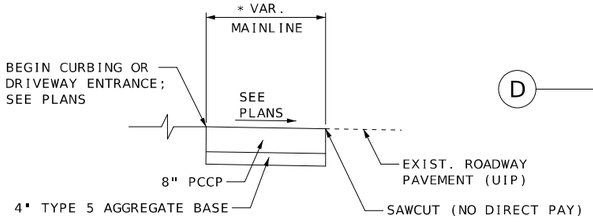
B — DETAIL: CONCRETE CURB & GUTTER (SPECIAL)

* SEE PLANS FOR LOCATIONS



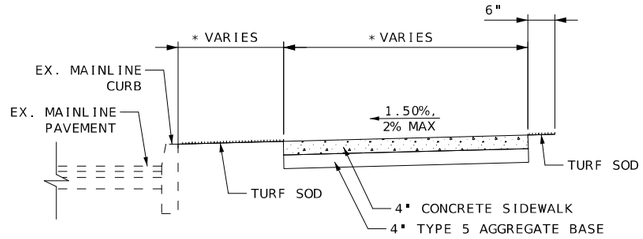
C — DETAIL: CONCRETE CURB, TYPE S

* SEE PLANS FOR LOCATIONS



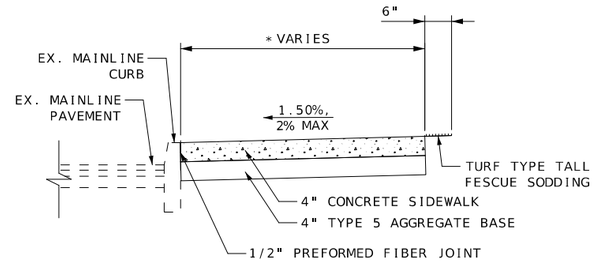
D — DETAIL: CONCRETE PAVEMENT REPLACEMENT

* SEE PLANS FOR LOCATIONS



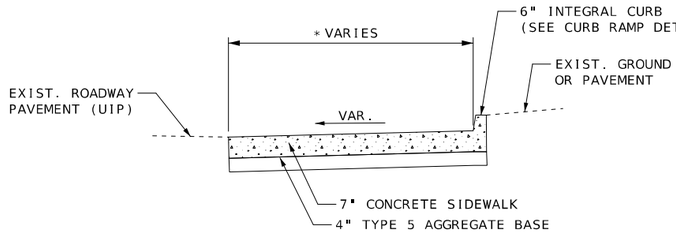
E — DETAIL: CONCRETE SIDEWALK WITH PARKWAY

* SEE PLANS FOR LOCATIONS



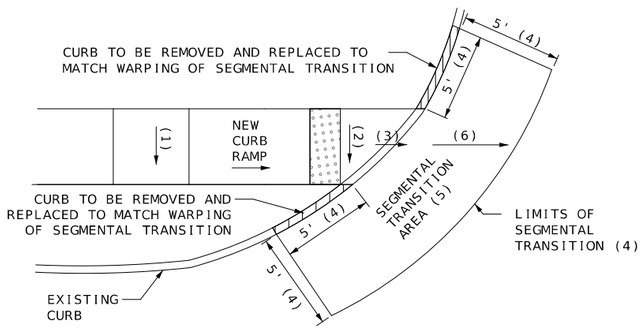
F — DETAIL: CONCRETE SIDEWALK WITH NO PARKWAY

* SEE PLANS FOR LOCATIONS & WIDTHS



G — DETAIL: CONCRETE CURB RAMP

* SEE SPECIAL SHEET DETAILS FOR LOCATIONS & WIDTHS



(1) CROSS SLOPE SHALL BE A MIN OF 1.0% AND A MAX OF 2.0%.

(2) ALL NEW CURB RAMPS SHALL MAINTAIN A CROSS SLOPE OF 1% MIN AND 2% MAX TO THE FRONT OF CURB AT INTERSECTIONS WITH STOP OR TIELD CONTROL. CROSS-SLOPE TO THE FRONT OF CURB SHALL BE A MAX OF 5.0% AT INTERSECTIONS WITHOUT STOP OR YIELD CONTROL.

(3) ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT OR GUTTER SLOPE IN THE DIRECTION OF PEDESTRIAN TRAVEL AND CURB RAMP SLOPE SHALL NOT EXCEED 13.0%. PROVIDE A 24" LEVEL LANDING IF ALGEBRAIC DIFFERENCE EXCEEDS 13.0%.

(4) THE SEGMENTAL TRANSITION SHALL INCLUDE AN AREA EQUAL TO THE SIZE OF THE OPENING PLUS 5.0' IN ANY DIRECTION TO ALLOW FOR CONNECTION TO THE EXISTING ADJACENT FACILITIES.

(5) A SEGMENTAL TRANSITION SHALL BE A WARPED AREA OF PAVEMENT FOR THE CONNECTION OF A NEW ADA COMPLIANT CURB RAMP TO AN ADJACENT EXISTING FACILITY. THE SEGMENTAL TRANSITION SHALL NOT INHIBIT DRAINAGE OR CAUSE AN UNSAFE DRIVING HAZARD. LIMITS OF THE SEGMENTAL TRANSITION MAY BE ADJUSTED AT THE ENGINEER'S DISCRETION.

(6) RUNNING SLOPE OF THE SEGMENTAL TRANSITION SHALL NOT EXCEED 5.0% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

H — DETAIL: SEGMENTAL TRANSITION AREA (CONNECT A NEW CURB RAMP TO EXISTING FACILITIES)

* SEE PLANS FOR LOCATIONS & WIDTHS

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 2
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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TYPICAL SECTIONS
ADA IMPROVEMENTS
SHEET 1 OF 2

SHEET NOTES:

TYPICAL SECTIONS TO BE USED IN CONJUNCTION WITH THE STANDARD PLANS.

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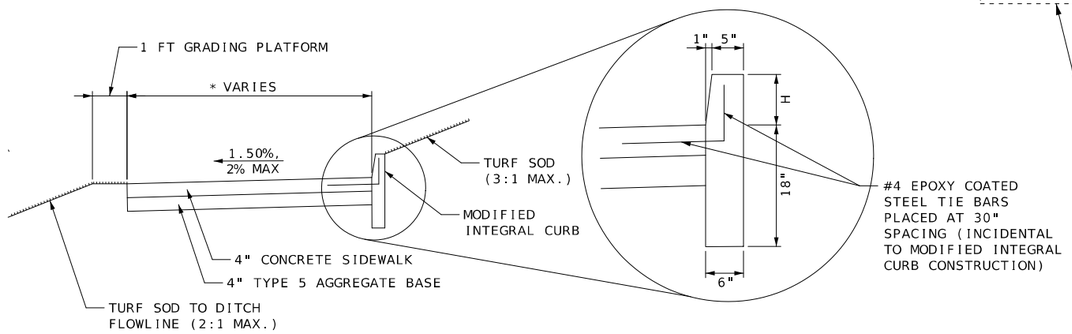
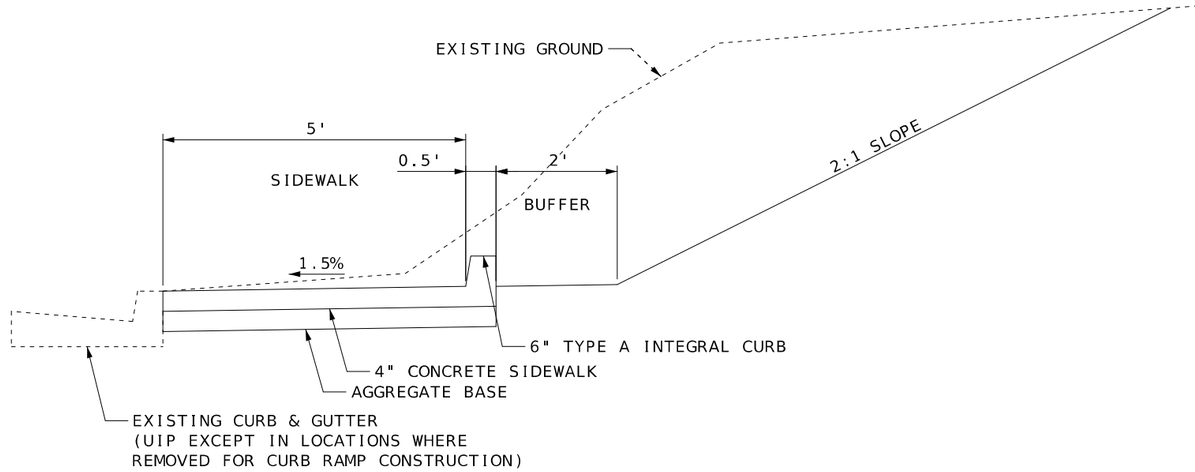


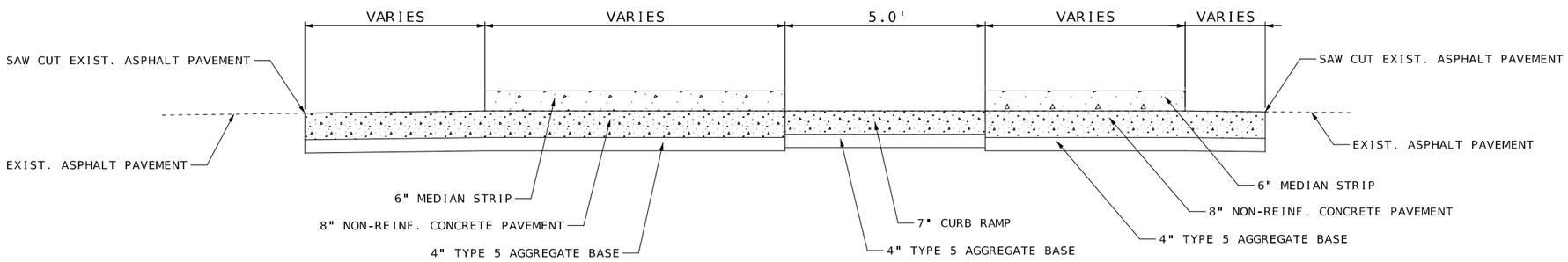
I DETAIL: MODIFIED INTEGRAL CURB WITH SIDEWALK

CURB HEIGHT (H) VARIES 8" TO 12" MAX.
* SEE SPECIAL SHEET DETAILS FOR LOCATIONS & WIDTHS



K DETAIL: ROCK CUT WITHOUT CURB & GUTTER

OSAGE BEACH, BUSINESS 54
STA. 181+32.02 TO 182+94.51 LT
STA. 181+42.26 TO 182+03.17 RT



J DETAIL: CONCRETE PAVEMENT & MEDIAN STRIP

* SEE PLANS FOR LOCATIONS & WIDTHS

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	2

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

TYPICAL SECTIONS
ADA IMPROVEMENTS
SHEET 2 OF 2

REMOVAL OF IMPROVEMENTS (1 OF 2)

SHEET	STATION	STATION	OFFSET	ROADWAY	DESCRIPTION	QUANTITY
LOCATION 1 - ST ELIZABETH						
1	184+65.98	184+87.51	RT	RTE E	SIDEWALK, 7 LF SAW CUT	19 SY
1	184+69.12	184+84.86	LT	RTE E	SIDEWALK, 22 LF SAW CUT	12 SY
1	184+69.15	184+80.71	LT	RTE E	FULL DEPTH CONC. PVMT., 18 LF SAW CUT	12 SY
1	184+65.98	184+80.79	RT	RTE E	S CURB, 1 LF SAW CUT	15 LF
1	184+65.99	184+87.58	RT	RTE E	FULL DEPTH CONC. PVMT., 26 LF SAW CUT	26 SY
1	184+77.89	185+09.00	LT	RTE E	FULL DEPTH ASPH. PVMT., 102 LF SAW CUT	80 SY
1	184+77.89	184+97.63	RT	RTE E	FULL DEPTH ASPH. PVMT., 75 LF SAW CUT	49 SY
1	184+84.73	184+87.37	RT	RTE E	CURB AND GUTTER, 3 LF SAW CUT	15 LF
1	184+84.95	184+87.51	LT	RTE E	CURB AND GUTTER, 3 LF SAW CUT	21 LF
1	184+87.39	184+99.33	LT	RTE E	CONCRETE MEDIAN STRIP	9 SY
2	473+89.84	473+93.27	LT	RTE 52	S CURB	7 LF
2	473+90.35	475+48.88	LT	RTE 52	SIDEWALK, 6 LF SAW CUT	65 SY
1	479+46.77	479+71.77	RT	RTE 52	CURB AND GUTTER, 48 LF SAW CUT	35 LF
1	479+46.92	479+74.92	LT	RTE 52	CURB AND GUTTER, 6 LF SAW CUT	44 LF
1	479+49.83	479+71.77	RT	RTE 52	SIDEWALK, 7 LF SAW CUT	20 SY
1	479+50.04	479+74.92	LT	RTE 52	SIDEWALK, 8 LF SAW CUT	21 SY
1	482+32.61	482+57.31	RT	RTE 52	SIDEWALK, 13 LF SAW CUT	24 SY
1	482+32.57	482+54.66	RT	RTE 52	CURB AND GUTTER, 5 LF SAW CUT	40 LF
1	482+34.77	482+56.96	LT	RTE 52	SIDEWALK, 9 LF SAW CUT	18 SY
1	482+34.80	482+59.35	LT	RTE 52	CURB AND GUTTER, 5 LF SAW CUT	44 LF
1	482+55.35	482+70.35	LT	RTE 52	FULL DEPTH ASPH. PVMT., 37 LF SAW CUT	14 SY
1	482+59.71	482+80.10	RT	RTE 52	FULL DEPTH ASPH. PVMT., 41 LF SAW CUT	23 SY
LOCATION 2 - TUSCUMBIA						
3	458+04.64	458+10.34	LT	RTE 52	SIDEWALK, 6 LF SAW CUT	9 SY
3	458+03.91	458+09.73	RT	RTE 52	SIDEWALK, 6 LF SAW CUT	6 SY
LOCATION 3 - OSAGE BEACH						
4	55+02.16	55+21.53	LT	RTE 42	SIDEWALK, 10 LF SAW CUT	20 SY
4	55+10.92	55+25.99	LT	RTE 42	CURB, 1 LF SAW CUT	25 LF
4	55+11.89	55+27.58	LT	RTE 42	FULL DEPTH CONC. PVMT., 29 LF SAW CUT	5 SY
4	55+19.21	55+37.25	LT	RTE 42	FULL DEPTH CONC. PVMT., 30 LF SAW CUT	6 SY
4	55+20.52	55+37.22	LT	RTE 42	CURB, 1 LF SAW CUT	27 LF
4	55+21.08	55+54.55	LT	RTE 42	CONCRETE MEDIAN ISLAND, 102 LF SAW CUT	32 SY
4	55+38.47		LT	RTE 42	PED. PUSHBUTTON	1 EA
4	55+38.47		LT	RTE 42	PED. SIGNAL	1 EA
4	55+54.12	55+55.20	LT	RTE 42	CURB, 1 LF SAW CUT	25 LF
4	55+54.85	55+57.12	LT	RTE 42	FULL DEPTH CONC. PVMT., 30 LF SAW CUT	6 SY
4	55+94.60	56+19.65	LT	RTE 42	FULL DEPTH CONC. PVMT., 44 LF SAW CUT	10 SY
4	56+00.73	56+22.38	LT	RTE 42	SIDEWALK INTEGRAL CURB	36 LF
4	56+00.73	56+22.38	LT	RTE 42	SIDEWALK	17 SY
4	56+17.54		LT	RTE 42	PED. PUSHBUTTON	2 EA
4	56+17.54		LT	RTE 42	PED. SIGNAL	2 EA
4	56+17.54		LT	RTE 42	PED. SIGNAL	2 EA
4	56+04.47	56+14.63	RT	RTE 42	FULL DEPTH CONC. PVMT., 21 LF SAW CUT	6 SY
4	56+04.35		RT	RTE 42	PED. PUSHBUTTON	1 EA
4	56+06.54	56+17.65	RT	RTE 42	ISLAND CUT-THROUGH	9 SY
4	56+11.41	56+20.89	RT	RTE 42	FULL DEPTH CONC. PVMT., 19 LF SAW CUT	3 SY
4	56+19.87	56+33.93	RT	RTE 42	FULL DEPTH CONC. PVMT., 27 LF SAW CUT	4 SY
4	56+21.44	56+33.94	RT	RTE 42	CURB, 1 LF SAW CUT	16 LF
4	56+17.85	56+39.53	RT	RTE 42	SIDEWALK, 10 LF SAW CUT	21 SY
LOCATION 4 - LEBANON						
5	580+07.99	580+46.96	RT	RTE 64	CONC. ENTRANCE W/ INTEGRAL CURB	53 SY
6	581+64.15	581+75.96	RT	RTE 64	SIDEWALK, 22 LF SAW CUT	10 SY
6	581+71.99		RT	RTE 64	PED. PUSHBUTTON & EXTENDER	1 EA
6	581+76.52		RT	RTE 64	CONCRETE CURB & GUTTER, 12 LF SAW CUT	8 LF
6	581+76.52		RT	RTE 64	S CURB, 1 LF SAW CUT	5 LF
6	581+76.34	582+34.18	RT	RTE 64	FULL DEPTH ASPH. PVMT., 30 LF SAW CUT	6 SY
6	582+22.92	582+34.24	RT	RTE 64	FULL DEPTH CONC. PVMT., 5 LF SAW CUT	5 SY
6	582+23.95	582+34.24	RT	RTE 64	CONCRETE CURB & GUTTER, 4 LF SAW CUT	20 LF
6	582+24.75	582+42.70	RT	RTE 64	SIDEWALK, 5 LF SAW CUT	14 SY
6	582+24.75	582+42.70	RT	RTE 64	SIDEWALK S CURB, 2 LF SAW CUT	18 LF
6	582+25.85	582+42.04	LT	RTE 64	ISLAND CUT-THROUGH	11 SY
6	582+28.11	582+43.71	LT	RTE 64	FULL DEPTH ASPH. PVMT., 35 LF SAW CUT	4 SY
6	582+28.36		RT	RTE 64	PED. PUSHBUTTON & EXTENDER	1 EA
6	582+30.22		LT	RTE 64	PED. PUSHBUTTON	1 EA
6	582+46.47	582+98.25	LT	RTE 64	SIDEWALK, 5 LF SAW CUT	33 SY
6	582+46.47	582+97.75	LT	RTE 64	CURB AND GUTTER, 3 LF SAW CUT	57 LF
6	803+60.90	803+68.59	LT	RTE 5	SIDEWALK, 3 LF SAW CUT	13 SY
6	803+52.50	804+34.36	LT	RTE 5	FULL DEPTH CONC. PVMT. WITH INTEGRAL CURB, 45 LF SAW CUT	141 SY
6	804+28.61	804+35.53	LT	RTE 5	SIDEWALK, 3 LF SAW CUT	16 SY
6	804+34.37	804+55.51	LT	RTE 5	CURB AND GUTTER, 7 LF SAW CUT	21 LF
6	804+35.10		LT	RTE 5	SHRUB	1 EA
6	805+68.50	807+49.95	LT	RTE 5	CURB AND GUTTER, 3 LF SAW CUT	184 LF
6	805+80.90	806+20.75	LT	RTE 5	CONC. ENTRANCE WITH INTEGRAL CURB, 24 LF SAW CUT	35 SY
6	806+20.75	806+80.52	LT	RTE 5	CONC. ENTRANCE WITH INTEGRAL CURB, 40 LF SAW CUT	49 SY
6	806+98.63	807+48.47	LT	RTE 5	ASPHALT SIDEWALK	24 SY

REMOVAL OF IMPROVEMENTS (2 OF 2)

SHEET	STATION	STATION	OFFSET	ROADWAY	DESCRIPTION	QUANTITY
LOCATION 5 - RICHLAND						
7	1316+45.51	1316+84.94	LT	RTE 7	SIDEWALK	19 SY
7	1316+52.31	1316+64.83	LT	RTE 7	RCP 12"	15 LF
LOCATION 6 - DIXON						
8	631+25.13	632+93.12	RT	RTE 28	SIDEWALK	55 SY
8	632+96.38	633+25.03	RT	RTE 28	GRAVEL ENTRANCE	49 SY
8	632+89.50	633+29.50	RT	RTE 28	GRAVEL SHOULDER	12 SY
8	632+94.68	633+24.03	RT	RTE 28	CMP 15"	29 LF
8	633+20.24	633+81.82	RT	RTE 28	CONCRETE RETAINING WALL	60 LF
8	633+20.56	634+06.38	RT	RTE 28	SIDEWALK	27 SY
8	633+93.00	634+34.00	RT	RTE 28	GRAVEL SHOULDER	14 SY
8	634+03.76	634+25.92	RT	RTE 28	ASPHALT ENTRANCE, 10 LF SAW CUT	36 SY
8	634+04.52	634+27.10	RT	RTE 28	CMP 15"	22 LF
8-9	634+20.59	635+95.77	RT	RTE 28	SIDEWALK	57 SY
9	635+81.00	636+27.00	RT	RTE 28	FULL DEPTH ASPH. PVMT., 64 LF SAW CUT	73 SY
9	635+86.40	636+18.12	RT	RTE 28	PLASTIC PIPE 12"	32 LF
9	635+89.79		RT	RTE 28	CMP 12"	5 LF
9	636+12.29	639+34.73	RT	RTE 28	SIDEWALK, 3 LF SAW CUT	134 SY
9	636+16.14		RT	RTE 28	CMP 15"	6 LF
9	636+51.00	636+91.00	RT	RTE 28	GRAVEL SHOULDER & ENTRANCE	36 SY
9	638+37.64	638+63.00	RT	RTE 28	ASPHALT ENTRANCE, 35 LF SAW CUT	24 SY
9	638+38.57	638+59.18	RT	RTE 28	PLASTIC PIPE 18"	21 LF
9	639+26.00	639+55.00	RT	RTE 28	ASPHALT ENTRANCE, 42 LF SAW CUT	32 SY
9	639+29.94	639+49.74	RT	RTE 28	PLASTIC PIPE 18"	20 LF
9-10	639+46.67	640+12.76	RT	RTE 28	SIDEWALK	28 SY
10	640+06.13	640+36.14	RT	RTE 28	GRAVEL ENTRANCE	30 SY
10	640+10.25	640+30.80	RT	RTE 28	PLASTIC PIPE 18"	21 LF
10	640+29.54	642+17.91	RT	RTE 28	SIDEWALK, 4 LF SAW CUT	93 SY
10	640+96.00	641+34.00	RT	RTE 28	GRAVEL ENTRANCE	33 SY
10	641+04.22	641+33.39	RT	RTE 28	PLASTIC PIPE 18"	29 LF
10	641+05.69	641+24.20	RT	RTE 28	CONCRETE ENTRANCE, 19 LF SAW CUT	8 SY
10	642+12.98	642+23.27	RT	RTE 28	CMP 15"	12 LF
10	642+18.84		RT	RTE 28	TREE TRUNK	1 EA
10	642+28.99	642+51.09	RT	RTE 28	FULL DEPTH ASPH. PVMT., 55 LF SAW CUT	55 SY
10	642+16.68	642+21.12	LT	RTE 28	RCP 15"	4 LF
10	642+16.71	642+27.27	LT	RTE 28	SIDEWALK, 4 LF SAW CUT	27 SY
10	642+16.97	642+20.46	LT	RTE 28	SIDEWALK METAL HAND-RAILING	26 LF

REMOVAL OF IMPROVEMENTS - ONE LUMP SUM

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SUMMARY OF QUANTITIES
SHEET 1 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

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ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

LINEAR GRADING FOR ADA FACILITIES

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	CLASS I (LF)	CLASS II (LF)	REMARKS
LOCATION 1 - ST ELIZABETH							
1	184+65.99	184+92.87	RT	RTE E	26.9		
1	184+69.12	184+96.88	LT	RTE E	27.8		
2	473+90.50	475+48.88	LT	RTE 52		158.4	
1	479+49.77	479+71.77	RT	RTE 52	17.6	4.4	
1	479+49.92	479+74.92	LT	RTE 52	25.0		
1	482+32.57	482+57.58	RT	RTE 52	25.0		
1	482+34.81	482+57.35	LT	RTE 52	22.5		
LOCATION 2 - TUSCUMBIA							
3	458+03.50	458+10.25	RT	RTE 52	6.8		
3	458+04.00	458+10.75	LT	RTE 52	6.8		
LOCATION 3 - OSAGE BEACH							
4	55+02.16	55+54.36	LT	RTE 42	36.5	15.7	
4	55+98.48	56+16.03	LT	RTE 42		17.6	
4	56+06.54	56+17.65	RT	RTE 42	11.1		
4	56+17.65	56+37.04	RT	RTE 42		19.4	
LOCATION 4 - LEBANON							
6	581+64.34	581+76.34	RT	RTE 64	12.0		
6	582+24.78	582+43.54	RT	RTE 64	18.8		
6	582+25.85	582+42.32	LT	RTE 64	16.5		
6	582+46.35	582+68.38	LT	RTE 64		22.0	
6	582+68.38	582+98.25	LT	RTE 64	29.9		
6	803+61.32	803+70.10	LT	RTE 5	8.8		
6	804+22.74	804+55.51	LT	RTE 5	32.8		
6	804+55.51	805+86.99	LT	RTE 5		131.5	
6	806+11.51	806+29.99	LT	RTE 5	18.5		
6	806+71.33	807+47.95	LT	RTE 5	76.6		
LOCATION 5 - RICHLAND							
7	1316+35.00	1316+84.94	LT	RTE 7	49.9		GRADE SIDEWALK FILL SLOPE AND DITCH TO DRAIN
LOCATION 6 - DIXON							
8	631+23.61	632+99.50	RT	RTE 28	175.9		
8	633+19.50	634+08.00	RT	RTE 28	88.5		GRADE DITCH TO DRAIN
8-9	634+19.00	635+96.00	RT	RTE 28	177.0		GRADE DITCH TO DRAIN
9	636+12.00	636+66.00	RT	RTE 28	54.0		
9	636+76.00	638+43.00	RT	RTE 28	167.0		
9	638+53.00	639+36.00	RT	RTE 28	83.0		GRADE DITCH TO DRAIN
9-10	639+45.00	640+16.00	RT	RTE 28	71.0		GRADE DITCH TO DRAIN
10	640+26.00	641+06.00	RT	RTE 28	80.0		GRADE DITCH TO DRAIN
10	641+24.00	642+31.22	RT	RTE 28	107.2		GRADE DITCH TO DRAIN
10	642+16.93	642+22.02	LT	RTE 28	5.1		
		SUBTOTAL (LOCATIONS 1-6)			1478.5	369.0	
		SUBTOTAL (LOCATION 7)			1381.5	0	
				PAY TOTAL	2860.0	369.0	

REMOVAL OF IMPROVEMENTS
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

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SUMMARY OF QUANTITIES
SHEET 2 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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MISSOURI CERT. OF AUTHORITY: 001528

UTILITY ADJUSTMENTS

SHEET (XX OF 13)	STATION	OFFSET	ROADWAY	ADJUSTING WATER VALVE OR WATER METER OR PULL BOX (EA)	ADJUSTING INLET (EA)	ADJUSTING MANHOLE (EA)	ADJUSTING FIRE HYDRANT (EA)	ADJUSTING TELEPHONE RISER (EA)	REMARKS
LOCATION 1 - ST ELIZABETH									
1	479+50.66	LT	RTE 52		1				
LOCATION 2 - TUSCUMBIA									
LOCATION 3 - OSAGE BEACH									
4	56+16.28	LT	RTE 42		1				
LOCATION 4 - LEBANON									
6	804+28.22	LT	RTE 5	1					SIGNAL PULL BOX
LOCATION 5 - RICHLAND									
LOCATION 6 - DIXON									
8	633+64.74	RT	RTE 28	1					WATER METER
9	635+89.23	RT	RTE 28				1		
9	635+91.77	RT	RTE 28	1					WATER VALVE
9	636+04.57	RT	RTE 28			1			SANITARY MANHOLE
9	636+18.33	RT	RTE 28	1					WATER VALVE
10	642+19.34	RT	RTE 28				1		
10	642+15.98	LT	RTE 28					1	
	SUBTOTAL (LOCATIONS 1-6)			4	2	1	2	1	
	SUBTOTAL (LOCATION 7)			1	0	0	0	0	
			PAY TOTAL	5	2	1	2	1	

PEDESTRIAN FACILITIES (1 OF 2)

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY)	TRUNCATED DOMES (SF)	CONCRETE SIDEWALK 4 IN. (SY)	CONCRETE CURB RAMP (SY)	REMARKS
LOCATION 1 - ST ELIZABETH									
1	184+65.99	184+92.83	RT	RTE E	26.2	20.0	15.1	11.0	
1	184+69.15	184+96.88	LT	RTE E	21.0	20.0	8.1	12.8	
2	473+90.50	475+48.88	LT	RTE 52	87.4		87.5		
1	479+49.77	479+71.77	RT	RTE 52	21.4	20.0	3.3	18.1	INCLUDES INTEGRAL CURB ALONG RAMP
1	479+49.92	479+74.92	LT	RTE 52	29.0	20.0	6.8	22.2	INCLUDES INTEGRAL CURB ALONG RAMP
1	482+32.57	482+57.58	RT	RTE 52	25.4	20.0	10.1	15.3	
1	482+34.81	482+57.35	LT	RTE 52	24.6	20.0	6.3	18.3	INCLUDES INTEGRAL CURB ALONG RAMP
LOCATION 2 - TUSCUMBIA									
3	458+03.50	458+10.25	RT	RTE 52	7.1	11.5		7.1	INCLUDES INTEGRAL CURB ALONG RAMP
3	458+04.00	458+10.75	LT	RTE 52	10.1	11.5	3.2	6.9	INCLUDES INTEGRAL CURB ALONG RAMP
LOCATION 3 - OSAGE BEACH									
4	55+02.16	55+24.11	LT	RTE 42	19.9	13.4	12.8	7.1	
4	55+31.73	55+54.58	LT	RTE 42	17.5	24.0		17.5	INCLUDES INTEGRAL CURB ALONG RAMP
4	55+98.48	56+16.03	LT	RTE 42	16.2	22.6		16.2	INCLUDES INTEGRAL CURB ALONG RAMP
4	56+06.54	56+17.65	RT	RTE 42	8.7	24.0		8.7	
4	56+17.70	56+37.04	RT	RTE 42	18.2	11.6	9.5	8.7	
LOCATION 4 - LEBANON									
6	581+64.34	581+76.34	RT	RTE 64	14.6	10.0	7.3	7.2	INCLUDES INTEGRAL CURB ALONG RAMP
6	582+24.78	582+43.54	RT	RTE 64	15.2	20.0	2.8	12.4	INCLUDES INTEGRAL CURB ALONG RAMP
6	582+25.85	582+42.32	LT	RTE 64	6.3	22.6		6.3	INCLUDES INTEGRAL CURB ALONG RAMP
6	582+46.35	582+68.38	LT	RTE 64	17.8	10.9		17.8	
6	582+68.38	582+98.25	LT	RTE 64	20.2		20.2		
6	803+61.32	803+70.10	LT	RTE 5	13.7	19.1	2.3	11.3	INCLUDES INTEGRAL CURB ALONG RAMP
6	804+22.74	804+55.51	LT	RTE 5	36.5	22.2	2.3	34.2	INCLUDES INTEGRAL CURB ALONG RAMP
6	804+55.51	805+86.99	LT	RTE 5	85.5		85.5		
6	806+11.51	806+29.99	LT	RTE 5	9.3		9.3		
6	806+71.33	807+47.95	LT	RTE 5	52.4		52.4		
		SUBTOTAL (LOCATIONS 1-6) (TABLE 1)			604.2	343.4	344.8	259.1	

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SUMMARY OF QUANTITIES
SHEET 3 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/16/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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ST. LOUIS, MO 63127
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MISSOURI CERT. OF AUTHORITY: 001528

PEDESTRIAN FACILITIES (2 OF 2)

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY)	TRUNCATED DOMES (SF)	CONCRETE SIDEWALK 4 IN. (SY)	CONCRETE CURB RAMP (SY)	REMARKS
LOCATION 5 - RICHLAND									
7	1316+44.36	1316+58.94	LT	RTE 7	6.9	10.0		6.9	INCLUDES INTEGRAL CURB ALONG RAMP
7	1316+58.94	1316+84.94	LT	RTE 7	14.0		14.0		
LOCATION 6 - DIXON									
8	631+23.61	631+36.67	RT	RTE 28	7.2	10.0		7.2	INCLUDES INTEGRAL CURB ALONG RAMP
8	631+36.67	632+99.50	RT	RTE 28	90.5		90.5		
8	633+19.50	634+08.00	RT	RTE 28	48.6		48.6		
8-9	634+19.00	635+82.08	RT	RTE 28	90.7		90.7		
9	635+82.08	635+96.00	RT	RTE 28	7.7	10.0		7.7	
9	636+12.00	636+24.59	RT	RTE 28	18.0	10.0	2.8	15.2	
9	636+24.59	636+66.00	RT	RTE 28	22.9		22.9		
9	636+76.00	638+43.00	RT	RTE 28	92.7		92.7		
9	638+53.00	639+36.00	RT	RTE 28	46.1		46.1		
9-10	639+45.00	640+16.00	RT	RTE 28	39.4		39.4		
10	640+26.00	641+06.00	RT	RTE 28	44.4		44.4		
10	641+24.00	642+14.57	RT	RTE 28	51.3		51.3		
10	642+11.50	642+31.22	RT	RTE 28	35.1	20.0	2.4	32.7	INCLUDES INTEGRAL CURB ALONG RAMP
10	642+16.93	642+22.02	LT	RTE 28	43.2	10.0	9.0	30.8	INCLUDES AGGREGATE BASE FOR 8" CONC. S.W.
		SUBTOTAL (LOCATIONS 1-6) (TABLE 2)			658.7	70.0	554.8	100.5	
		SUBTOTAL (LOCATIONS 1-6) (TABLE 1)			604.2	343.4	344.8	259.1	
		SUBTOTAL (LOCATION 7)			1119.0	130.0	856.1	262.3	
				PAY TOTAL	*	543.0	1755.7	621.9	

*SEE PAVEMENT, PAVED APPROACHES, & ENTRANCES TABLE FOR FINAL TYPE 5 AGGREGATE FOR BASE PAY TOTAL

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SUMMARY OF QUANTITIES
SHEET 4 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

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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MISSOURI CERT. OF AUTHORITY: 001528

PAVEMENT, PAVED APPROACHES, & ENTRANCES

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY)	CONCRETE PAVEMENT (7 IN. NON-REINF.) (SY)	CONCRETE PAVEMENT (8 IN. NON-REINF.) (SY)	PAVED APPROACH 7 IN. (SY)	PAVED APPROACH 8 IN. (SY)	REMARKS
LOCATION 1 - ST ELIZABETH										
1	184+65.99	184+97.63	RT	RTE E	55.8		55.8			
1	184+69.18	185+09.00	LT	RTE E	72.3		72.3			
1	482+55.35	482+70.35	LT	RTE 52	13.8		13.8			
1	482+59.71	482+80.10	RT	RTE 52	22.5		22.5			WALNUT ST
LOCATION 2 - TUSCUMBIA										
3	458+02.50	458+11.25	RT	RTE 52	1.1		1.1			
3	458+03.00	458+11.75	LT	RTE 52	1.0		1.0			
LOCATION 3 - OSAGE BEACH										
4	55+21.08	55+32.66	LT	RTE 42	7.5		7.5			
4	55+48.39	55+54.36	LT	RTE 42	7.3		7.3			
4	56+04.47	56+14.63	RT	RTE 42	6.3		6.3			
4	56+11.41	56+20.89	RT	RTE 42	2.8		2.8			
LOCATION 4 - LEBANON										
5	580+07.00	580+47.00	RT	RTE 64	49.6				49.6	
6	582+22.06	582+34.18	RT	RTE 64	10.8		10.8			
6	582+25.85	582+42.32	LT	RTE 64	9.8		9.8			
6	803+52.50	804+37.26	LT	RTE 5	128.8		128.8			ADAMS AVE
6	805+78.50	806+20.75	LT	RTE 5	48.0				48.0	
6	806+20.75	806+80.50	LT	RTE 5	66.5				66.5	
LOCATION 5 - RICHLAND										
LOCATION 6 - DIXON										
8	632+89.50	633+29.50	RT	RTE 28	62.5			62.5		
8	633+93.00	634+34.00	RT	RTE 28	53.3			53.3		
9	635+81.00	636+27.00	RT	RTE 28	73.3		73.3			EAST B ST
9	636+51.00	636+91.00	RT	RTE 28	41.3			41.3		
9	638+33.00	638+63.00	RT	RTE 28	30.3			30.3		
9	639+26.00	639+55.00	RT	RTE 28	28.2			28.2		
10	640+06.00	640+36.00	RT	RTE 28	29.2			29.2		
10	640+96.00	641+34.00	RT	RTE 28	49.2			49.2		
10	642+15.17	642+51.09	RT	RTE 28	58.3		58.3			CHESTNUT ST
	SUBTOTAL (LOCATIONS 1-6)				929.5	0	471.4	294.0	164.1	
	SUBTOTAL (LOCATION 7)				756.0	274.6	481.5	0	0	
	SUBTOTAL (PEDESTRIAN FACILITIES TOTAL)				2381.9	-	-	-	-	
	SUBTOTAL (CURB AND GUTTER TOTAL)				310.0	-	-	-	-	
				PAY TOTAL	4377.0	274.6	952.9	294.0	164.1	

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SUMMARY OF QUANTITIES
SHEET 5 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/16/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK) (SY)	CONC. CURB (6 IN. HEIGHT AND UNDER) TYPE S (LF)	INTEGRAL CURB, TYPE A (6 IN. HEIGHT AND UNDER) (LF)	MOD. INTEGRAL CURB, TYPE A (OVER 6 IN. HEIGHT) (LF)	CURB AND GUTTER (SPECIAL) 1.5' GUTTER (LF)	CURB AND GUTTER (SPECIAL) 2.0' GUTTER (LF)	CURB AND GUTTER (SPECIAL) 2.5' GUTTER (LF)	6 IN. CONC. MEDIAN STRIP (SY)	REMARKS
LOCATION 1 - ST ELIZABETH													
1	184+65.99	184+93.38	RT	RTE E	17.2					58.0			
1	184+65.99	184+92.87	RT	RTE E								12.1	
1	184+69.15	184+97.38	LT	RTE E	17.4					58.6			
1	184+69.15	184+96.88	LT	RTE E								21.2	
2	473+89.84	473+92.91	LT	RTE 52		7.8							
1	479+49.27	479+71.77	RT	RTE 52	12.8						36.4		
1	479+49.42	479+74.92	LT	RTE 52	15.4						43.7		
1	482+32.57	482+58.08	RT	RTE 52	12.1					41.0			
1	482+34.81	482+57.85	LT	RTE 52	10.7				44.5				
LOCATION 2 - TUSCUMBIA													
LOCATION 3 - OSAGE BEACH													
4	55+11.84	55+25.90	LT	RTE 42	7.3					24.7			
4	55+20.60	55+37.22	LT	RTE 42	7.9					26.7			
4	55+21.08	55+32.66	LT	RTE 42								7.5	
4	55+48.39	55+54.36	LT	RTE 42								7.3	
4	55+54.85	55+55.20	LT	RTE 42	7.5					25.3			
4	55+96.37	56+19.77	LT	RTE 42	11.4					38.5			
4	56+17.27	56+33.93	RT	RTE 42	6.7					22.5			
LOCATION 4 - LEBANON													
6	581+76.56	581+76.84	RT	RTE 64	3.9					13.0			
6	582+24.28	582+34.24	RT	RTE 64	6.0					20.2			
6	582+24.77	582+43.39	RT	RTE 64	1.4			18.7					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
6	582+25.85	582+42.32	LT	RTE 64								6.0	
6	582+45.94	582+97.75	LT	RTE 64	20.8						59.1		
6	803+52.50	803+73.00	LT	RTE 5	7.8				32.2				
6	804+17.00	804+55.51	LT	RTE 5	17.7						50.2		
6	804+55.51	805+49.72	LT	RTE 5	5.2		94.2						
6	805+55.72	805+86.99	LT	RTE 5	1.7		31.3						
6	805+68.50	805+78.50	LT	RTE 5	3.5						10.0		
6	806+80.50	807+48.24	LT	RTE 5	24.6						69.9		
LOCATION 5 - RICHLAND													
LOCATION 6 - DIXON													
8	631+36.67	632+99.50	RT	RTE 28	9.1			163.0					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
8	633+19.50	633+30.50	RT	RTE 28	0.6			11.0					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
8	633+33.50	633+81.00	RT	RTE 28	2.7			48.0					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
8	634+49.00	635+46.00	RT	RTE 28	5.4			97.0					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
10	641+97.38	642+14.42	RT	RTE 28	1.1		19.0						CURB AT THE BACK OF SIDEWALK
10	642+18.05	642+21.34	LT	RTE 28	2.1			38.0					CURB AT THE BACK OF SIDEWALK; SEE TYPICAL DETAIL "I"
		SUBTOTAL (LOCATIONS 1-6)			240.0	7.8	144.5	375.7	76.7	328.5	269.3	54.1	
		SUBTOTAL (LOCATION 7)			70.0	366.0	0	0	0	0	251.0	0	
				PAY TOTAL	*	374.0	145.0	376.0	77.0	329.0	520.0	54.1	

*SEE PAVEMENT, PAVED APPROACHES, & ENTRANCES TABLE FOR FINAL TYPE 5 AGGREGATE FOR BASE PAY TOTAL

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SUMMARY OF QUANTITIES
SHEET 6 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001538

SIGNING & PAVEMENT MARKING ITEMS (1 OF 2)

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	PREFORMED THERMOPLASTIC 6 IN. WHITE (LF)	PREFORMED THERMOPLASTIC 24 IN. WHITE (LF)	PREFORMED YIELD LINE TRIANGLES 12 IN. WHITE (EA)	PREFORMED THERMOPLASTIC 30 IN. WHITE MIDBLOCK (EA)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	PAVEMENT MARKING REMOVAL (LF)	RELOCATE EXISTING SIGNS (EA)	RELOCATE MAILBOXES (EA)	REMARKS
LOCATION 1 - ST ELIZABETH													
1	184+74.00	184+76.00	RT	RTE E		12.0							
1	184+78.21		RT	RTE E							1		STOP/STREET SIGN & POST
1	184+78.97		RT	RTE E							1		STATE ROUTE 52 SIGN & POST
1	184+80.23	184+85.73	LT/RT	RTE E	70.2								
1	184+96.88		LT	RTE E							1		STOP/STREET SIGN & POST
1	184+99.39	482+75.04	LT/RT	RTE E/52		15.0							
1	479+50.40		RT	RTE 52							1		STOP/STREET SIGN & POST
1	479+54.65	479+62.04	LT/RT	RTE 52				8					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
1	479+66.38		RT	RTE 52							1		STATE ROUTE 52 SIGN & POST
1	482+49.28	482+55.28	LT/RT	RTE 52				8					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
1	482+55.73		LT	RTE 52							1		YIELD/STREET SIGN & POST
1	482+59.35	184+95.54	RT/LT	RTE E/52	68.0								
1	482+60.11	184+97.20	LT/RT	RTE 52/E	59.8								
1	482+68.35	482+79.35	LT	RTE 52			6						
LOCATION 2 - TUSCUMBIA													
LOCATION 3 - OSAGE BEACH													
4	55+15.30	55+28.73	LT	RTE 42					4				REMOVE MIDBLOCKS
4	55+16.01	55+28.37	LT	RTE 42					3				REMOVE YIELD LINE TRIANGLES
4	55+19.56	55+36.05	LT	RTE 42	19.5								
4	55+21.07		LT	RTE 42							1		YIELD SIGN & POST
4	55+21.36	55+35.01	LT	RTE 42				3					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
4	55+27.81	55+36.38	LT	RTE 42			6						
4	55+56.87	56+12.94	LT	RTE 42					8				REMOVE MIDBLOCKS
4	55+57.24		LT	RTE 42	15.3								
4	55+57.50		LT	RTE 42						10			REMOVE 8" PAVEMENT MARKINGS
4	55+57.67	55+69.77	LT	RTE 42						12			REMOVE STOP BAR
4	55+57.82	55+94.02	LT	RTE 42				8					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
4	55+58.04	55+69.52	LT	RTE 42		12.0							
4	56+04.51	56+14.69	RT	RTE 42				1					9' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
4	56+04.55	56+12.94	LT	RTE 42					1				REMOVE MIDBLOCK
4	56+04.65	56+14.50	LT	RTE 42				2					9' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
4	56+11.29	56+20.45	RT	RTE 42			7						
4	56+11.64	56+30.48	RT	RTE 42					4				REMOVE MIDBLOCKS
4	56+12.63	56+20.95	RT	RTE 42					5				REMOVE YIELD LINE TRIANGLES
4	56+14.48	56+28.61	RT	RTE 42				3					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
LOCATION 4 - LEBANON													
6	582+26.93	582+33.44	RT	RTE 64	13.6								
6	582+36.14	582+56.37	LT	RTE 64	44.9								
6	582+37.44	582+72.89	LT	RTE 64						59			REMOVE 6" PAVEMENT MARKINGS
6	803+64.72	804+26.16	LT	RTE 5	106.3								
6	803+75.19	803+95.19	LT	RTE 5		20.0							
6	804+50.12		LT	RTE 5							1		STATE ROUTE 5 SIGN & POST
6	805+52.93		LT	RTE 5							1		SPEED LIMIT SIGN (INSTALL ON SEPARATE POST)
		SUBTOTAL (LOCATIONS 1-6) (TABLE 1)			397.6	59.0	19	33	25	81	9	0	

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SUMMARY OF QUANTITIES
SHEET 7 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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MISSOURI CERT. OF AUTHORITY: 001528

SIGNING & PAVEMENT MARKING ITEMS (2 OF 2)

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	PREFORMED THERMOPLASTIC 6 IN. WHITE (LF)	PREFORMED THERMOPLASTIC 24 IN. WHITE (LF)	PREFORMED YIELD LINE TRIANGLES 12 IN. WHITE (EA)	PREFORMED THERMOPLASTIC 30 IN. WHITE MIDBLOCK (EA)	PAVEMENT MARKING REMOVAL (SYMBOLS) (EA)	PAVEMENT MARKING REMOVAL (LF)	RELOCATE EXISTING SIGNS (EA)	RELOCATE MAILBOXES (EA)	REMARKS
LOCATION 5 - RICHLAND													
7	1316+76.40		LT	RTE 7							1		ENTERING COUNTY SIGN & POST
LOCATION 6 - DIXON													
8	631+38.90		RT	RTE 28							1		STREET SIGN & POST
8	631+42.66		RT	RTE 28							1		UTILITY SIGN & POST
8	633+29.47		RT	RTE 28								1	
9	635+95.44	636+12.69	RT	RTE 28	33.3								
9	636+04.00	636+12.00	RT	RTE 28		8.0							
9	636+13.36		RT	RTE 28							1		STOP SIGN & POST
9	636+18.27		RT	RTE 28							1		STREET SIGN & POST
9	636+29.94		RT	RTE 28							1		UTILITY SIGN & POST
9	639+00.20		RT	RTE 28							1		FARM EQUIPMENT SIGN & POST
10	640+47.17		RT	RTE 28							1		BRIDGE CLEARANCE SIGN & POST
10	641+99.06		RT	RTE 28							1		ADOPT-A-HIGHWAY SIGN & POST
10	642+15.06	642+22.32	LT/RT	RTE 28				4					6' X 30" S.W. LINES W/ 30" GAP X-WALK LINES
10	642+18.84		RT	RTE 28							1		ONE WAY SIGN & POST
10	642+18.97		RT	RTE 28							1		UTILITY SIGN & POST
10	642+27.61		LT	RTE 28							1		STOP SIGN & POST
10	642+24.50		LT	RTE 28							1		VACANT POST
		SUBTOTAL (LOCATIONS 1-6) (TABLE 2)			33.3	8.0	0	4	0	0	13	1	
		SUBTOTAL (LOCATIONS 1-6) (TABLE 1)			397.6	59.0	19	33	25	81.0	9	0	
		SUBTOTAL (LOCATION 7)			404.0	0	0	0	0	0	2	0	
				PAY TOTAL	835.0	67.0	19	37	25	81.0	24	1	

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SUMMARY OF QUANTITIES
SHEET 8 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

DRAINAGE PIPES & FLARED END SECTIONS

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	CLASS 3 EXCAV.* (CY)	12 IN. PIPE GROUP B (LF)	15 IN. PIPE GROUP B (LF)	18 IN. PIPE GROUP B (LF)	12 IN. GROUP B FLARED END SECTION (EA)	15 IN. GROUP B FLARED END SECTION (EA)	18 IN. GROUP B FLARED END SECTION (EA)	REMARKS
LOCATION 5 - RICHLAND												
7	1316+48.57	1316+76.38	LT	RTE 7	8.0	31.0			2			
LOCATION 6 - DIXON												
8	632+90.15	633+27.15	RT	RTE 28	11.0		37.0			2		
8	633+97.15	634+29.15	RT	RTE 28	10.0		32.0			2		
9	635+82.44	636+22.43	RT	RTE 28	10.0	40.0			2			
9	635+87.45		RT	RTE 28	3.0	12.0						
9	636+15.22		RT	RTE 28	5.0		14.0					
9	638+30.58	638+64.58	RT	RTE 28	13.0			34.0			2	
9	639+26.74	639+55.74	RT	RTE 28	11.0			29.0			2	
10	640+05.81	640+36.81	RT	RTE 28	12.0			31.0			2	
10	640+93.62	641+36.62	RT	RTE 28	16.0			43.0			2	
10	642+01.57	642+22.00	RT	RTE 28	10.0		33.0			2		
10	642+08.72	642+27.30	LT	RTE 28	6.0		18.0			2		
		SUBTOTAL (LOCATIONS 1-6)			115.0	83.0	134.0	137.0	4	8	8	
		SUBTOTAL (LOCATION 7)			0	0	0	0	0	0	0	
				PAY TOTAL	115.0	83.0	134.0	137.0	4	8	8	

*CLASS 3 EXCAVATION CALCULATED FOR PIPES AND METAL FLARED END SECTIONS

SIDEWALK HAND-RAILING WITHOUT BALUSTERS

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	CONCRETE SIDEWALK 8 IN. (SY)	SIDEWALK HAND-RAILING WITHOUT BALUSTERS (LF)	REMARKS
LOCATION 6 - DIXON							
10	642+16.84	642+23.74	LT	RTE 28	3.3	45.0	
		SUBTOTAL (LOCATIONS 1-6)			3.3	45.0	
		SUBTOTAL (LOCATION 7)			0	0	
				PAY TOTAL	3.3	45.0	

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SUMMARY OF QUANTITIES
SHEET 9 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

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

DESCRIPTION	DATE

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SODDING

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	TURF TYPE TALL FESCUE SODDING (SY)	PERMANENT EROSION CONTROL GEOTEXTILE (SY)	REMARKS
LOCATION 1 - ST ELIZABETH							
1	482+32.61	482+49.66	RT	RTE 52	2.3		
1	482+34.77	482+51.85	LT	RTE 52	4.3		
2	473+90.50	475+48.88	LT	RTE 52	34.3		
1	479+55.28	479+74.92	LT	RTE 52	1.5		
LOCATION 2 - TUSCUMBIA							
3	458+02.50	458+11.25	RT	RTE 52	1.6		
3	458+03.00	458+11.75	LT	RTE 52	3.0		
LOCATION 3 - OSAGE BEACH							
4	55+02.15	55+25.48	LT	RTE 42	11.9		
4	55+96.81	56+21.72	LT	RTE 42	13.8		
4	56+26.28	56+40.40	RT	RTE 42	6.1		
LOCATION 4 - LEBANON							
6	581+65.93	581+76.34	RT	RTE 64	0.7		
6	582+32.46	582+42.70	RT	RTE 64	2.6		
6	582+51.23	582+98.25	LT	RTE 64	14.7		
6	803+52.50	803+72.50	LT	RTE 5	5.7		
6	804+17.50	805+87.50	LT	RTE 5	21.4		
6	806+11.00	806+30.50	LT	RTE 5	6.3		
6	806+70.50	807+44.51	LT	RTE 5	11.4		
LOCATION 5 - RICHLAND							
7	1316+44.36	1316+84.94	LT	RTE 7	17.6		
LOCATION 6 - DIXON							
8	631+23.61	632+99.50	RT	RTE 28	17.9		
8	633+19.50	634+08.00	RT	RTE 28	90.6		
8-9	634+19.00	635+96.00	RT	RTE 28	144.1		
9	636+12.00	636+66.00	RT	RTE 28	47.8		
9	636+76.00	638+43.00	RT	RTE 28	45.0		
9	638+53.00	639+36.00	RT	RTE 28	45.0		
9-10	639+45.00	640+16.00	RT	RTE 28	35.8		
10	640+26.00	641+06.00	RT	RTE 28	29.9		
10	641+24.00	642+31.22	RT	RTE 28	55.4		
10	642+09.32	642+27.43	LT	RTE 28	37.1		
10	642+23.00	642+27.00	LT	RTE 28		10.0	
		SUBTOTAL (LOCATIONS 1-6)			707.8	10.0	
		SUBTOTAL (LOCATION 7)			0	0	
				PAY TOTAL	708.0	10.0	

CONDUIT

LOCATION	OFFSET	ROADWAY	REPLACE DAMAGED CONDUIT (LF)	REMARKS
VARIOUS	LT/RT	VARIOUS	50.0	
		PAY TOTAL	50.0	

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SUMMARY OF QUANTITIES
SHEET 10 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008609
PROFESSIONAL ENGINEER

DATE PREPARED: 4/16/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

TEMPORARY EROSION CONTROL

SHEET (XX OF 13)	STATION	STATION	OFFSET	ROADWAY	SILT FENCE (LF)	INLET CHECK (EA)	ALTERNATE DITCH CHECK SPACING	ALTERNATE DITCH CHECK (LF)	SEDIMENT REMOVAL (CY)	REMARKS
LOCATION 1 - ST ELIZABETH										
2	474+12.83	474+24.83	LT	RTE 52			12'	12	1.0	USE AS DIRECTED BY THE ENGINEER
2	474+24.83	474+49.83	LT	RTE 52			25'	25	2.1	USE AS DIRECTED BY THE ENGINEER
2	474+49.83	474+86.83	LT	RTE 52			37'	37	3.1	USE AS DIRECTED BY THE ENGINEER
2	474+86.83	475+16.83	LT	RTE 52			30'	30	2.5	USE AS DIRECTED BY THE ENGINEER
2	475+16.83	475+42.83	LT	RTE 52			13'	26	2.2	USE AS DIRECTED BY THE ENGINEER
1	479+50.66		LT	RTE 52		1			0.5	USE AS DIRECTED BY THE ENGINEER
1	479+72.69		RT	RTE 52		1			0.5	USE AS DIRECTED BY THE ENGINEER
LOCATION 2 - TUSCUMBIA										
LOCATION 3 - OSAGE BEACH										
4	54+84.80		LT	RTE 42		1			0.5	USE AS DIRECTED BY THE ENGINEER
4	56+16.42		LT	RTE 42		1			0.5	USE AS DIRECTED BY THE ENGINEER
LOCATION 4 - LEBANON										
6	581+74.47		RT	RTE 64		1			0.5	USE AS DIRECTED BY THE ENGINEER
6	582+41.74		RT	RTE 64		1			0.5	USE AS DIRECTED BY THE ENGINEER
6	582+45.16		RT	RTE 64		1			0.5	USE AS DIRECTED BY THE ENGINEER
6	806+96.71		LT	RTE 5		1			0.5	USE AS DIRECTED BY THE ENGINEER
LOCATION 5 - RICHLAND										
7	1316+38.62	1318+50.00	LT	RTE 7			12'	24	2.0	USE AS DIRECTED BY THE ENGINEER
7	1316+52.20	1316+85.68	LT	RTE 7	35				0.4	USE AS DIRECTED BY THE ENGINEER
LOCATION 6 - DIXON										
8	631+81.13	632+18.13	RT	RTE 28			37'	24	2.0	USE AS DIRECTED BY THE ENGINEER
8	632+18.13	632+78.13	RT	RTE 28			30'	24	2.0	USE AS DIRECTED BY THE ENGINEER
8	633+45.14		RT	RTE 28			75'	12	1.0	USE AS DIRECTED BY THE ENGINEER
8-9	634+57.14	635+68.14	RT	RTE 28			37'	48	4.0	USE AS DIRECTED BY THE ENGINEER
9	636+25.06	636+30.45	RT	RTE 28	25				0.3	USE AS DIRECTED BY THE ENGINEER
9	636+76.00	637+13.42	RT	RTE 28	43				0.4	USE AS DIRECTED BY THE ENGINEER
9	637+76.20	638+26.20	RT	RTE 28			10'	72	6.0	USE AS DIRECTED BY THE ENGINEER
9	638+78.20	639+17.20	RT	RTE 28			13'	48	4.0	USE AS DIRECTED BY THE ENGINEER
9	639+69.20	639+95.20	RT	RTE 28			13'	36	3.0	USE AS DIRECTED BY THE ENGINEER
10	640+26.00	640+97.19	RT	RTE 28	76				0.8	USE AS DIRECTED BY THE ENGINEER
10	640+53.20	640+83.20	RT	RTE 28			15'	36	3.0	USE AS DIRECTED BY THE ENGINEER
10	641+48.49	641+86.48	RT	RTE 28			19'	36	3.0	USE AS DIRECTED BY THE ENGINEER
10	642+35.58		LT	RTE 28			9'	24	2.0	USE AS DIRECTED BY THE ENGINEER
10	642+35.58		LT	RTE 28			13'	12	1.0	USE AS DIRECTED BY THE ENGINEER
	SUBTOTAL (LOCATIONS 1-6)				179.0	8	-	526.0	49.8	
	SUBTOTAL (LOCATION 7)				411.0	12	-	0	5.0	
				PAY TOTAL	590.0	20	-	526.0	55.0	

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SUMMARY OF QUANTITIES
SHEET 11 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

REMOVAL OF IMPROVEMENTS

ROADWAY	SHEET	STATION	STATION	OFFSET	DESCRIPTION	QUANTITY
BUS 54	11	170+51.92	170+63.43	LT	SIDEWALK	3.9 SY
BUS 54	11	170+51.71	171+49.23	LT	CONCRETE PAVEMENT	151.5 SY
BUS 54	11	171+28.85	172+07.88	LT	SIDEWALK	32.7 SY
BUS 54	11	171+96.28	172+91.68	LT	CONCRETE PAVEMENT	172.5 SY
BUS 54	11	172+79.66	173+50.20	LT	SIDEWALK	28.5 SY
BUS 54	11	173+36.44	174+13.23	LT	CONCRETE PAVEMENT	97.4 SY
BUS 54	11	173+96.50	177+03.89	LT	SIDEWALK	141.9 SY
BUS 54	11	176+88.62	177+52.72	LT	CONCRETE PAVEMENT	50.7 SY
BUS 54	11-12	177+37.50	178+98.76	LT	CURB/RETAINING WALL	161.3 LF
BUS 54	11-12	177+37.75	178+98.40	LT	SIDEWALK	85.2 SY
BUS 54	12	178+82.72	179+58.12	LT	CONCRETE PAVEMENT	63.8 SY
BUS 54	12	179+42.51	182+95.47	LT	SIDEWALK	161.6 SY
BUS 54	12	181+21.60	181+34.96	RT	CURB RAMP	8.3 SY
BUS 54	12	181+34.96	184+16.20	RT	SIDEWALK	135.8 SY
BUS 54	12	182+77.33	183+92.41	LT	CONCRETE PAVEMENT	93.6 SY
BUS 54	12	183+25.09	183+35.14	LT	SIDEWALK	3.3 SY
BUS 54	12	183+68.27	184+16.26	LT	SIDEWALK	23.0 SY
BUS 54	13	224+89.90	225+09.96	RT	SIDEWALK	10.0 SY
BUS 54	13	224+95.00	225+59.56	RT	CONCRETE PAVEMENT	64.5 SY
BUS 54	13	225+02.79	225+77.59	LT	SIDEWALK	40.6 SY
BUS 54	13	225+43.02	225+79.67	RT	SIDEWALK	19.5 SY
BUS 54	13	225+76.72	225+93.48	RT	CURB RAMP	10.5 SY
BUS 54	13	225+77.51	226+01.88	LT	CURB RAMP	13.0 SY
BUS 54	13	225+78.89	226+68.51	LT	CONCRETE PAVEMENT	114.6 SY
BUS 54	13	225+85.29		RT	SIGNAL HEAD AND PUSH BUTTON	1 EA
BUS 54	13	225+90.47		LT	SIGNAL HEAD AND PUSH BUTTON	1 EA
BUS 54	13	226+47.68	226+72.69	LT	CURB RAMP	15.6 SY
BUS 54	13	226+50.89		RT	SIGNAL HEAD AND PUSH BUTTON	2 EA
BUS 54	13	226+57.72		LT	SIGNAL HEAD AND PUSH BUTTON	1 EA
BUS 54	13	226+72.69	227+75.79	LT	SIDEWALK	65.4 SY
BUS 54	13	226+77.24	226+89.27	RT	CURB RAMP	7.1 SY
BUS 54	13	226+86.47	227+90.62	RT	SIDEWALK	49.4 SY
					TOTAL	1 LUMP SUM

TEMPORARY EROSION CONTROL

ROUTE	PLAN SHEET	BEGIN STATION	END STATION	LOCATION	SILT FENCE	SEDIMENT REMOVAL	INLET CHECK
					LF	CUYD	EA
BUS 54	11	171+51.14		LT			1
BUS 54	11	173+01.75		LT			1
BUS 54	11	174+27.60		LT			1
BUS 54	11	175+53.28		LT			1
BUS 54	11	176+91.80		LT			1
BUS 54	11	177+55.54		LT			1
BUS 54	11	173+95.67	175+19.70	LT	124	1.00	
BUS 54	12	178+38.54		RT			1
BUS 54	12	179+75.46		RT			1
BUS 54	12	182+01.71		RT			1
BUS 54	12	183+78.39		LT			1
BUS 54	12	183+24.76	183+35.99	LT	12	1.00	
BUS 54	12	183+68.33	184+16.27	LT	50	1.00	
BUS 54	13	227+63.90		LT			1
BUS 54	13	225+83.70		LT			1
BUS 54	13	227+19.86	227+95.44	RT	80	1.00	
BUS 54	13	226+45.68	227+75.79	LT	145	1.00	
				TOTAL	411	5	12

SIDEWALK

ROUTE	PLAN SHEET	BEGIN STATION	END STATION	LOCATION	CONCRETE SIDEWALK 4 IN.	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	LINEAR GRADING FOR ADA CLASS 1
					SQYD	SQYD	LF
BUS 54	11	171+43.05	171+96.40	LT	34.9	35	52.3
BUS 54	11	172+91.58	173+36.32	LT	29.2	29	43.7
BUS 54	11	174+13.02	176+88.64	LT	180.8	181	271.1
BUS 54	11-12	177+52.75	178+82.79	LT	86.5	86	130.1
BUS 54	12	179+58.12	181+47.96	LT	105.5	105	189.9
BUS 54	12	181+42.52	181+47.05	RT	2.8	3	5.0
BUS 54	12	181+67.05	184+16.20	RT	138.1	138	243.1
BUS 54	12	181+75.95	182+77.36	LT	56.3	56	101.4
BUS 54	12	183+92.44	184+16.26	LT	13.0	13	23.8
BUS 54	13	224+89.90	224+94.89	RT	3.1	3	5.0
BUS 54	13	225+02.79	225+78.91	LT	49.5	50	75.7
BUS 54	13	225+57.54	225+79.72	RT	14.9	15	23.4
BUS 54	13	226+68.52	227+75.79	LT	68.8	69	105.3
BUS 54	13	226+86.64	227+89.91	RT	72.7	73	111.7
				TOTAL	856.1	856	1381.5

CURB RAMPS

ROUTE	PLAN SHEET	STATION	LOCATION	CONCRETE CURB RAMP	TRUNCATED DOMES	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)
				SQYD	SQFT	SQYD
BUS 54	11	170+62.47	LT	8.4		8
BUS 54	11	171+29.93	LT	10.0		10
BUS 54	11	172+07.52	LT	8.6		9
BUS 54	11	172+80.74	LT	8.7		9
BUS 54	11	173+49.67	LT	11.1		11
BUS 54	11	174+00.26	LT	11.1		11
BUS 54	11	177+03.46	LT	10.5		11
BUS 54	11	177+40.45	LT	10.7		11
BUS 54	12	178+97.65	LT	11.1		11
BUS 54	12	179+45.79	LT	8.9		9
BUS 54	12	181+31.47	RT	15.4	17	15
BUS 54	12	181+56.66	RT	17.0	13	17
BUS 54	12	181+61.95	LT	21.4	12	21
BUS 54	12	182+91.54	LT	9.7		10
BUS 54	12	183+30.18	LT	6.0		6
BUS 54	12	183+71.99	LT	14.3		14
BUS 54	13	225+08.40	RT	10.9		11
BUS 54	13	225+44.72	RT	11.0		11
BUS 54	13	225+88.73	RT	15.6	22	16
BUS 54	13	225+94.79	LT	16.0	28	16
BUS 54	13	226+53.63	LT	15.0	25	15
BUS 54	13	226+80.43	RT	10.9	13	11
			TOTAL	262.3	130	263

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149998
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	3

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SUMMARY OF QUANTITIES
SHEET 12 OF 14

CURB

ROUTE	PLAN SHEET	BEGIN STATION	END STATION	LOCATION	CURB AND GUTTER (SPECIAL) 2.5' GUTTER	CONCRETE CURB (6 IN. AND UNDER) TYPE S	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)
					LF	LF	SQYD
BUS 54	11	170+51.69	170+57.66	LT	6		2
BUS 54	11	171+35.91	171+49.17	LT	13		4
BUS 54	11	171+96.41	172+03.56	LT	7		2
BUS 54	11	172+84.43	172+91.60	LT	7		2
BUS 54	11	173+36.34	173+42.52	LT	7		2
BUS 54	11	173+53.40	173+55.68	LT		9	
BUS 54	11	173+89.51	173+95.09	LT		10	
BUS 54	11	174+05.87	174+13.05	LT	7		2
BUS 54	11	176+88.64	176+95.65	LT	7		2
BUS 54	11	177+04.73	177+04.83	LT		1	
BUS 54	11	177+36.44	177+36.57	LT		1	
BUS 54	11	177+45.53	177+52.74	LT	7		2
BUS 54	11-12	177+52.87	178+82.91	LT		130	
BUS 54	12	178+82.78	178+89.78	LT	7		2
BUS 54	12	179+00.06	179+00.28	LT		1	
BUS 54	12	179+41.96	179+42.35	LT		1	
BUS 54	12	179+51.11	179+58.11	LT	7		2
BUS 54	12	181+18.83	181+66.12	RT	56		15
BUS 54	12	181+32.02	181+48.02	LT		16	
BUS 54	12	181+49.13	181+75.95	LT	28		8
BUS 54	12	181+68.76	182+03.16	RT		35	
BUS 54	12	181+76.01	182+77.42	LT		101	
BUS 54	12	182+77.36	182+84.35	LT	7		2
BUS 54	12	182+95.10	182+95.91	LT		2	
BUS 54	12	183+23.90	183+24.69	LT		2	
BUS 54	12	183+35.80	183+35.99	LT		2	
BUS 54	12	183+67.40	183+68.35	LT		2	
BUS 54	12	183+77.43	183+92.43	LT	15		4
BUS 54	13	224+89.91	224+94.90	RT		5	
BUS 54	13	224+94.95	225+01.94	RT	7		2
BUS 54	13	225+11.23	225+11.56	RT		2	
BUS 54	13	225+41.96	225+42.00	RT		1	
BUS 54	13	225+50.31	225+59.13	RT	9		2
BUS 54	13	225+58.58	225+79.99	RT		24	
BUS 54	13	225+78.90	225+85.96	LT	7		2
BUS 54	13	225+81.34	225+98.08	RT	23		6
BUS 54	13	226+00.23	226+02.64	LT		11	
BUS 54	13	226+45.16	226+48.11	LT		10	
BUS 54	13	226+61.38	226+68.52	LT	7		2
BUS 54	13	226+73.28	226+84.77	RT	17		5
				TOTAL	251	366	70

PAVEMENT

ROUTE	PLAN SHEET	BEGIN STATION	END STATION	LOCATION	CONCRETE PAVEMENT (8 IN. NON-REINF)	CONCRETE PAVEMENT (7 IN. NON-REINF)	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)
					SQYD	SQYD	SQYD
BUS 54	11	170+57.59	171+36.00	LT	143.3		143
BUS 54	11	172+03.66	172+84.52	LT	168.2		168
BUS 54	11	173+43.66	174+06.03	LT		89.6	90
BUS 54	11	176+95.63	177+45.71	LT		44.3	44
BUS 54	12	178+89.72	179+51.12	LT		57.7	58
BUS 54	12	182+84.33	183+77.77	LT		83.0	83
BUS 54	13	224+94.20	225+59.56	RT	59.0		59
BUS 54	13	225+87.70	226+60.85	LT	111.0		111
				TOTAL	481.5	274.6	756

UTILITY ADJUSTMENTS

ROUTE	PLAN SHEET	STATION	LOCATION	ADJUSTING WATER VALVE, WATER METER, OR PULL BOX	REMARKS
				(EA)	
BUS 54	12	181+67.24	LT	1	PULL BOX
			TOTAL	1	

SIGNING & PAVEMENT MARKING ITEMS

ROUTE	SHEET	STATION	STATION	LOCATION	PREFORMED THERMOPLASTIC 6 IN. WHITE	RELOCATE EXISTING SIGNS
					LF	EA
BUS 54	12	181+54.19	181+60.22	LT/RT	131	
BUS 54	12	182+42.47		LT		1
BUS 54	12	225+88.71	225+94.43	LT/RT	150	
BUS 55	13	226+55.07	226+60.15	LT/RT	123	
BUS 54	13	226+81.98		RT		1
				TOTAL	404	2

EXCAVATION

ROUTE	PLAN SHEET	BEGIN STATION	END STATION	LOCATION	CLASS C EXCAVATION
					CUYD
BUS 54	12	181+32.02	182+95.36	LT	247
BUS 54	12	181+45.10	182+08.16	RT	393
				TOTAL	640

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 4/10/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 3
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

5720 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI ENGINEERING, INC.
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SUMMARY OF QUANTITIES
SHEET 13 OF 14

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								TURN (SYMBOL LEFT ARROW)
WO1-1R								TURN (SYMBOL RIGHT ARROW)
WO1-2L								CURVE (SYMBOL LEFT ARROW)
WO1-2R								CURVE (SYMBOL RIGHT ARROW)
WO1-3L								REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R								REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L								REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R								REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL								DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4bR								DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-4cL								TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
WO1-4cR								TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
WO1-6								HORIZONTAL ARROW (SYMBOL)
WO1-6a								HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7								DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a								DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
WO1-8								CHEVRON (SYMBOL)
WO1-8a								CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1								STOP AHEAD (SYMBOL)
WO3-2								YIELD AHEAD (SYMBOL)
WO3-3								SIGNAL AHEAD (SYMBOL)
WO3-4								BE PREPARED TO STOP
WO3-5								SPEED LIMIT AHEAD
WO4-1L								MERGE (SYMBOL FROM LEFT)
WO4-1R								MERGE (SYMBOL FROM RIGHT)
WO4-1aL								MERGE (ARROW SYMBOL)
WO4-1aR								MERGE (ARROW SYMBOL)
WO5-1								ROAD/BRIDGE/RAMP NARROWS
WO5-3								ONE LANE BRIDGE
WO5-5								NARROW LANES
WO6-1								DIVIDED HIGHWAY (SYMBOL)
WO6-2								DIVIDED HIGHWAY END (SYMBOL)
WO6-3								TWO WAY TRAFFIC (SYMBOL)
WO7-3a								NEXT XX MILES (PLAQUE)
WO8-1								BUMP
WO8-2								DIP
WO8-3								PAVEMENT ENDS
WO8-4								SOFT SHOULDER
WO8-5								SLIPPERY WHEN WET (SYMBOL)
WO8-6								TRUCK CROSSING (WITH FLAGS)
WO8-6c								TRUCK ENTRANCE
WO8-7								LOOSE GRAVEL
WO8-7a								FRESH OIL/LOOSE GRAVEL
WO8-9								LOW SHOULDER
WO8-11								UNEVEN LANES
WO8-12								NO CENTER LINE
WO8-15								GROOVED PAVEMENT
WO8-15P								MOTORCYCLE (PLAQUE)
WO8-17								SHOULDER DROP-OFF (SYMBOL)
WO8-17P								SHOULDER DROP-OFF (PLAQUE)
W10-1								RAILROAD CROSSING
WO12-1								DOUBLE DOWN ARROW (SYMBOL)
WO12-2								LOW CLEARANCE (SYMBOL)
WO12-2X								LOW CLEARANCE (PLAQUE)
WO12-2a								OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO12-4								LOW CLEARANCE XX FT XX IN XX MILES AHEAD
WO12-5								WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1								ADVISORY SPEED (PLAQUE)
WO16-2								XXX FEET (PLAQUE)
WO16-3								X MILE (PLAQUE)
WO20-1			8	128				ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2								DETOUR AHEAD
WO20-3								ROAD CLOSED AHEAD
WO20-4			6	96				ONE LANE ROAD AHEAD
WO20-5								RIGHT/CENTER/LEFT LANE CLOSED AHEAD
WO20-5a								2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a								RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a			6	96				FLAGGER (SYMBOL, WITH FLAGS)
WO21-2								FRESH OIL
WO21-5								SHOULDER WORK AHEAD
WO22-1								BLASTING ZONE AHEAD
WO22-2								TURN OFF 2-WAY RADIO AND PHONE
WO22-3								END BLASTING ZONE
GO22-1								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								GORE EXIT
E05-2								EXIT OPEN
E05-2a								EXIT CLOSED
GO20-1								ROAD WORK NEXT XX MILES
GO20-2								END ROAD WORK
GO20-4								PILOT CAR FOLLOW ME
GO20-4a								PILOT CAR IN USE WAIT & FOLLOW
GO20-4a								PILOT CAR IN USE WAIT & FOLLOW
GO20-5aP			6	36				WORK ZONE (PLAQUE)
MO4-8a								END DETOUR
MO4-9L								DETOUR (LEFT ARROW)
MO4-9R								DETOUR (RIGHT ARROW)
MO4-9P								STREET NAME (PLAQUE)
MO4-10L								DETOUR (ARROW LEFT)
MO4-10R								DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1								STOP
R1-2								YIELD
R1-2a								TO ONCOMING TRAFFIC (PLAQUE)
R1-3P								ALL WAY (PLAQUE)
R2-1								SPEED LIMIT XX
R3-1								NO RIGHT TURN (SYMBOL)
R3-2								NO LEFT TURN (SYMBOL)
R3-3								NO TURNS
R3-4								NO U-TURN (SYMBOL)
R3-7L								LEFT LANE MUST TURN LEFT
R3-7R								RIGHT LANE MUST TURN RIGHT
R4-1								DO NOT PASS
R4-2								PASS WITH CARE
R4-8a								KEEP LEFT (HORIZONTAL ARROW)
R4-7a								KEEP RIGHT (HORIZONTAL ARROW)
R5-1								DO NOT ENTER
R5-1a								WRONG WAY
R6-1L								ONE WAY ARROW (LEFT)
R6-1R								ONE WAY ARROW (RIGHT)
R6-2L								ONE WAY (LEFT)
R6-2R								ONE WAY (RIGHT)
R9-9			20	40				SIDEWALK CLOSED
R9-11L								SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R								SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6								STOP HERE ON RED (45^ ARROW)
R11-2			4	40				ROAD CLOSED
R11-3a								ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4			4	50				ROAD CLOSED TO THRU TRAFFIC
CONST-3A								FINE SIGN
CONST-3X								SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5								POINT OF PRESENCE
CONST-5								POINT OF PRESENCE
CONST-7			4	32				RATE OUR WORK ZONE
CONST-7								RATE OUR WORK ZONE
CONST-8								WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	518

616-10.10 RELOCATED SIGNS **	TOTAL
	-

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	180	CHANNELIZER (TRIM LINE)
6161030	14	TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	4*	CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE - CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6169902	16*	ADA COMPLIANT MOVEABLE BARRICADE
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

TEMPORARY TRAFFIC CONTROL
PAY TOTAL = 1 LUMP SUM

*ITEMS NOT INCLUDED IN TEMPORARY TRAFFIC CONTROL - 1 LUMP SUM

** NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING SIGNS OR DEVICES

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SUMMARY OF QUANTITIES

SHEET 14 OF 14

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008809
PROFESSIONAL ENGINEER

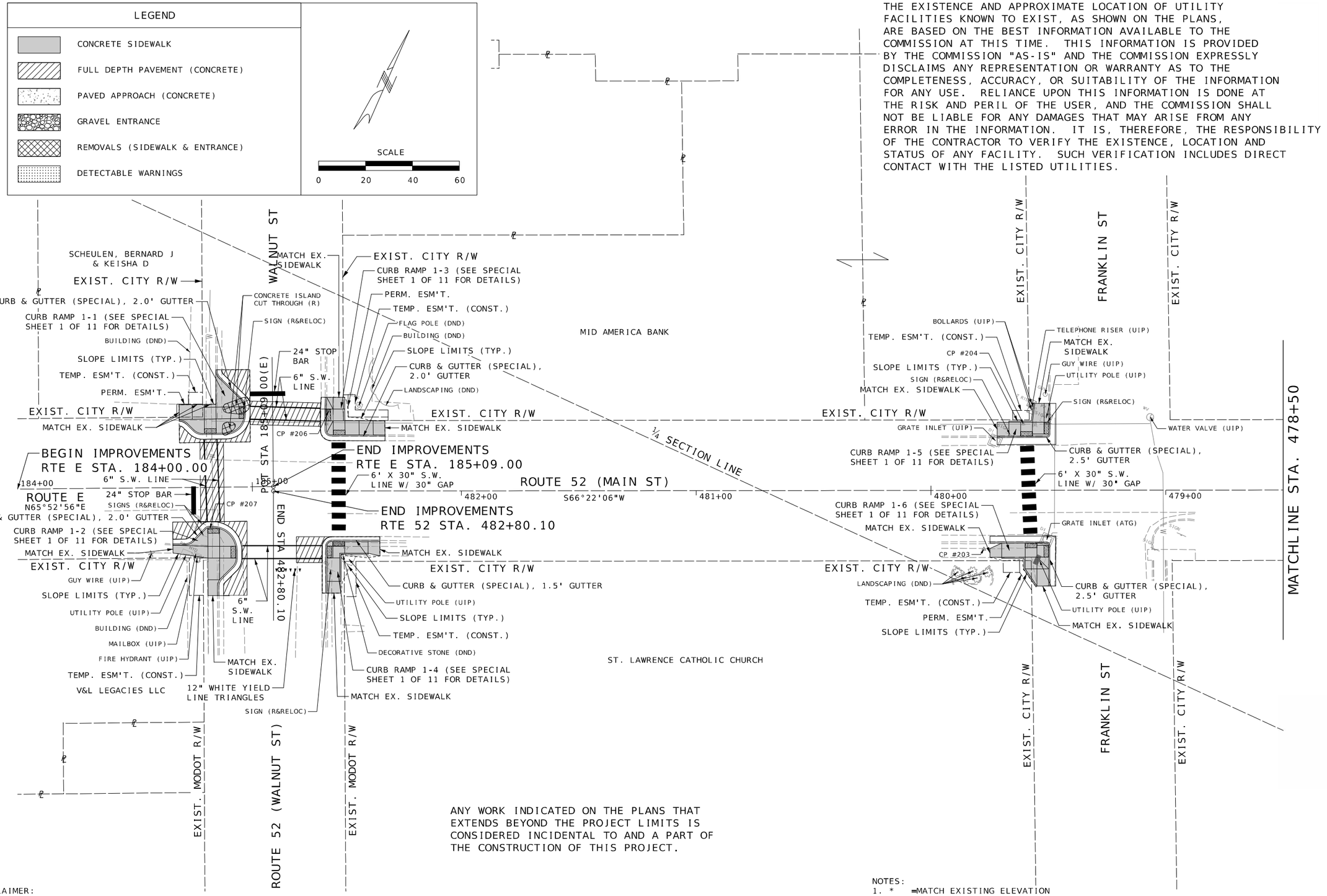
DATE PREPARED: 4/10/2024
ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 3
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528



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.

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NOTES:
1. * =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

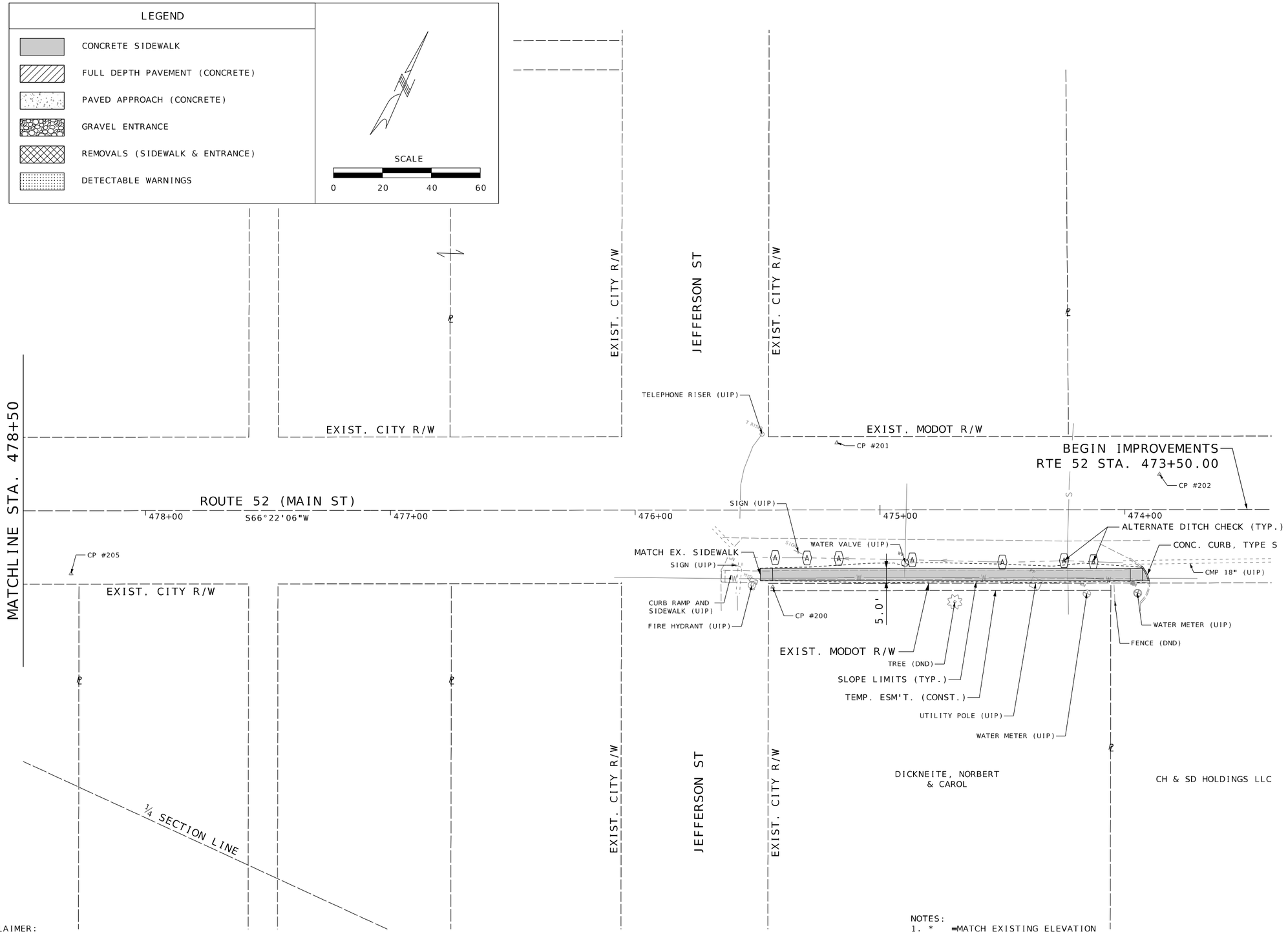
DATE PREPARED: 4/16/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 4
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 1
ST. ELIZABETH
ROUTE 52
SHEET 1 OF 13



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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000609
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	5

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

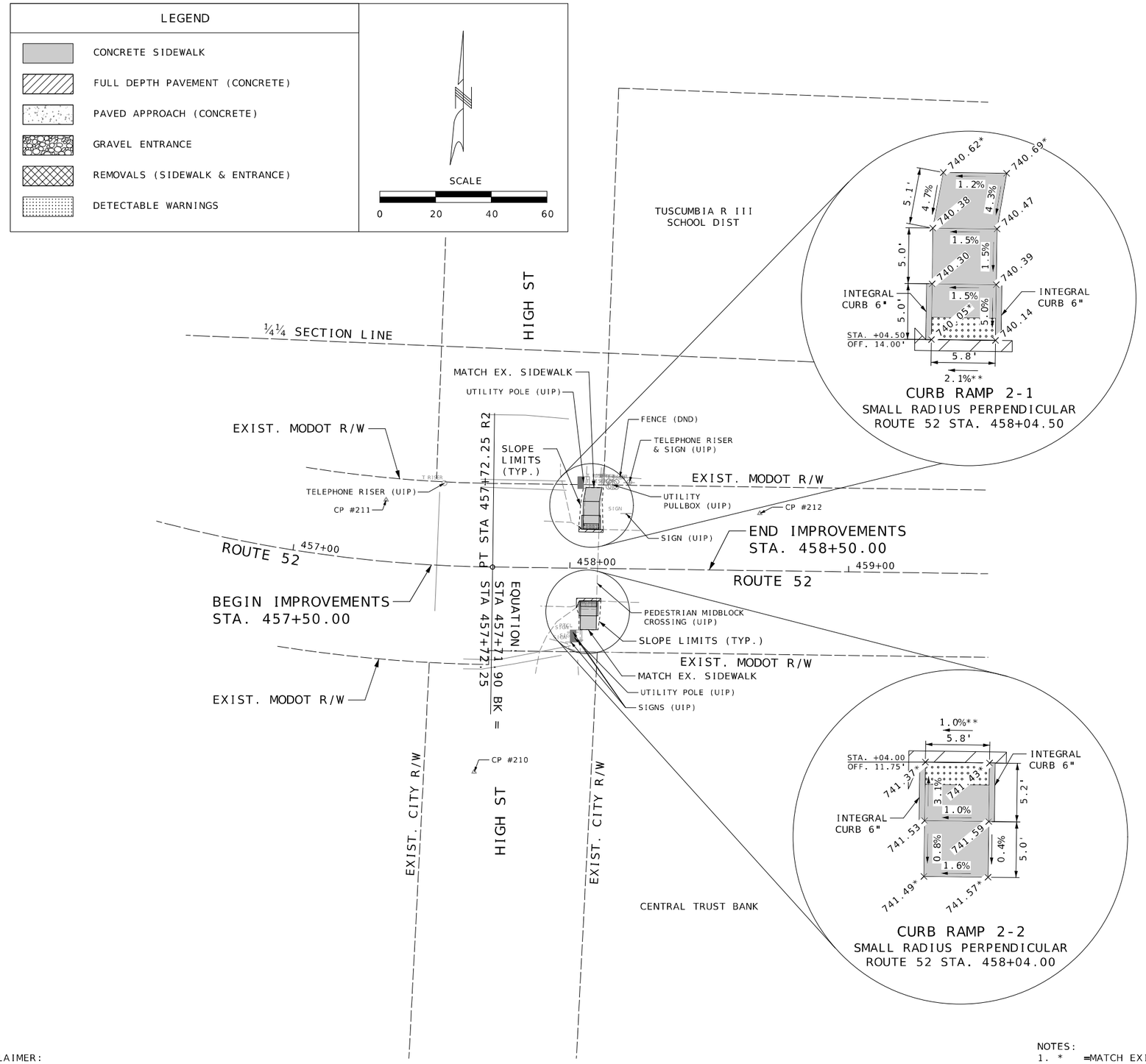
DESCRIPTION	DATE

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

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 1
ST. ELIZABETH
ROUTE 52
SHEET 2 OF 13



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2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	6

COUNTY
VARIOUS

JOB NO.
CD0121

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)

TWM
ENGINEERING
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(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 2
TUSCUMBIA
ROUTE 52
SHEET 3 OF 13

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

DISCLAIMER:
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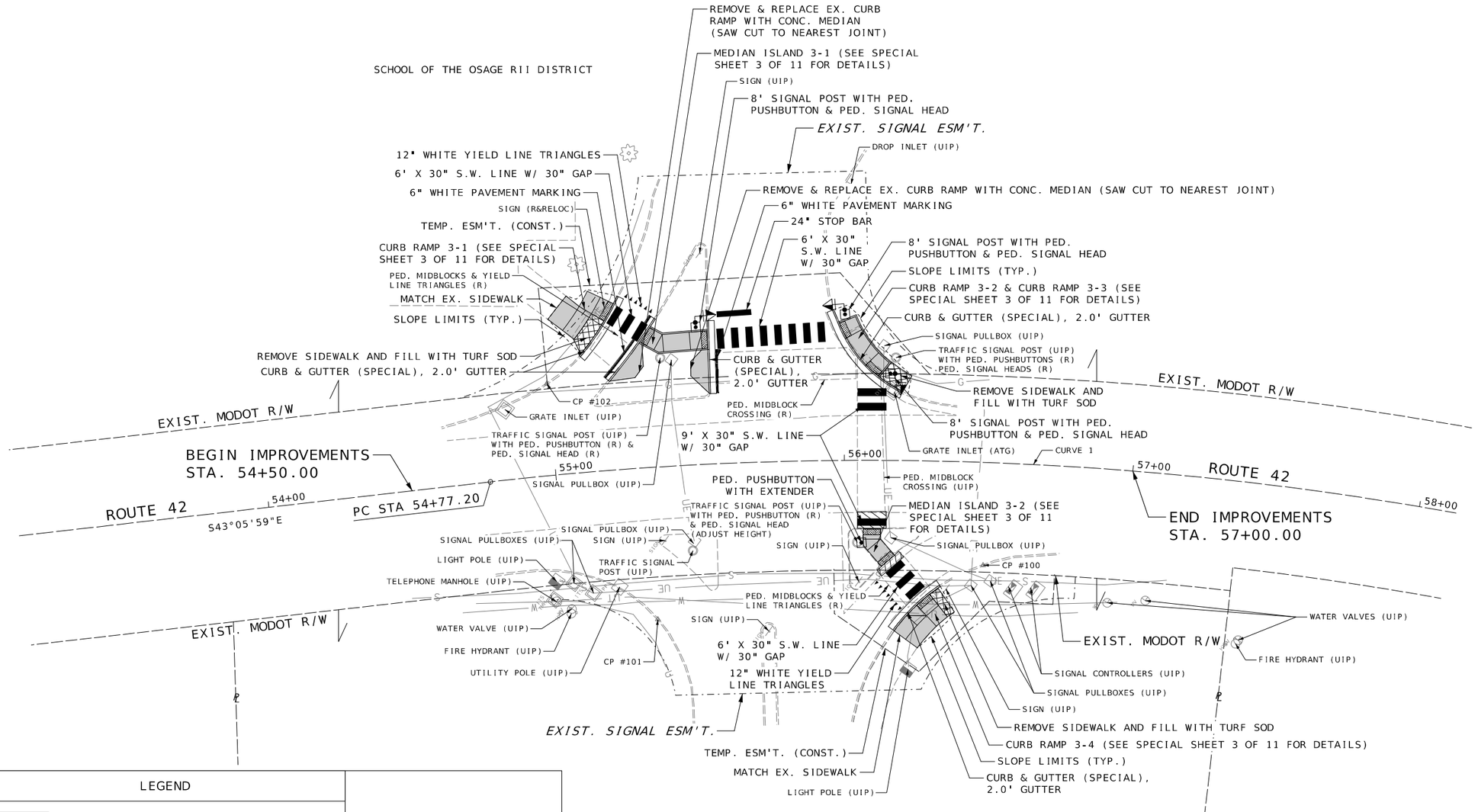

LEGEND	
	CONCRETE SIDEWALK
	FULL DEPTH PAVEMENT (CONCRETE)
	PAVED APPROACH (CONCRETE)
	GRAVEL ENTRANCE
	REMOVALS (SIDEWALK & ENTRANCE)
	DETECTABLE WARNINGS

SCALE
0 20 40 60

℄ CURVE 1	
PI	58+99.92
PC	54+77.20
PT	62+87.20
Δ	40°28'15.0" (RT)
D	4°59'47.0"
L	810.00' (ARC)
T	422.72'
R	1,146.74'

NOTES:
1. * =MATCH EXISTING ELEVATION
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   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	7

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

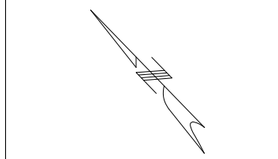
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET LOCATION 3
OSAGE BEACH
ROUTE 42
SHEET 4 OF 13

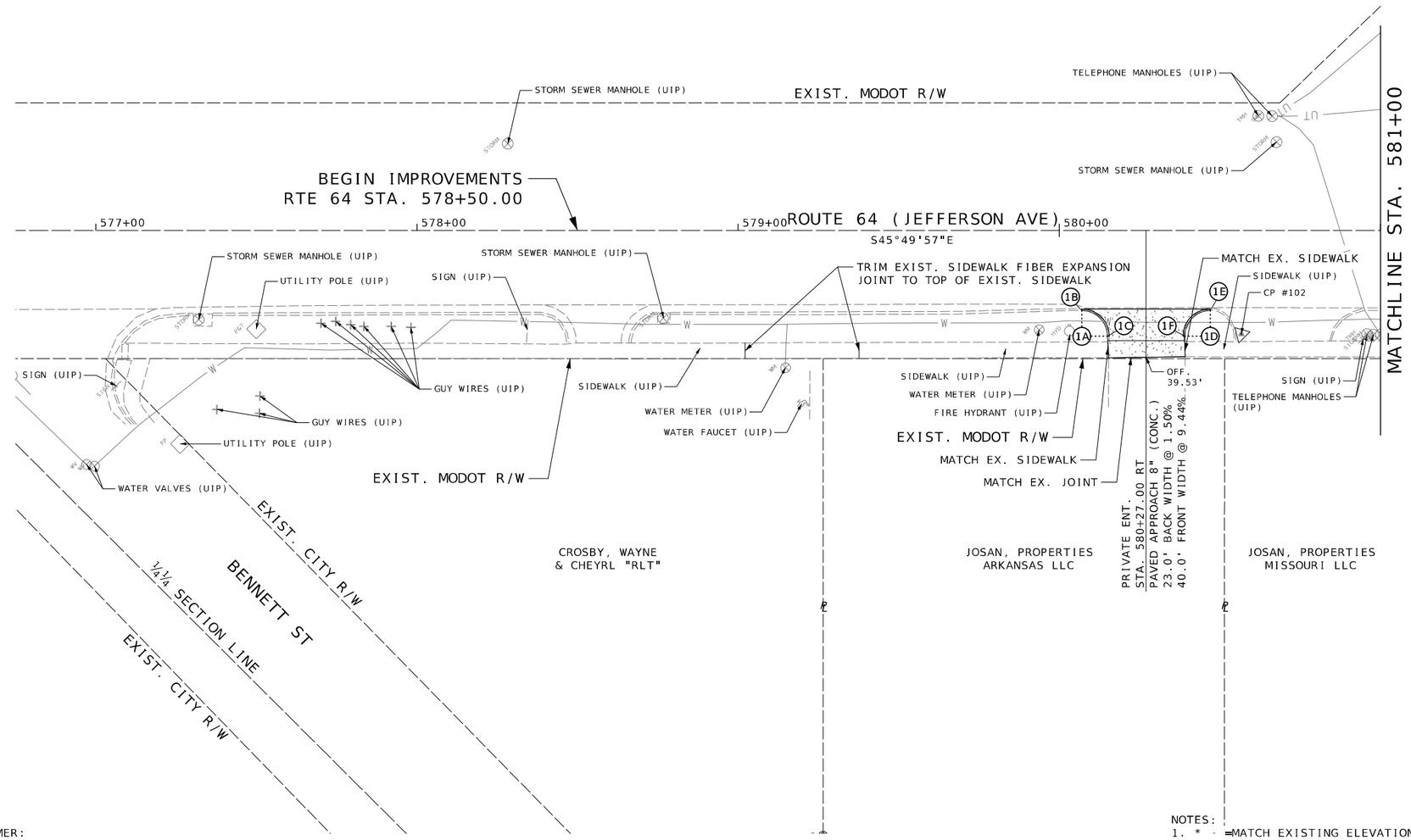
LEGEND	
	CONCRETE SIDEWALK
	FULL DEPTH PAVEMENT (CONCRETE)
	PAVED APPROACH (CONCRETE)
	GRAVEL ENTRANCE
	REMOVALS (SIDEWALK & ENTRANCE)
	DETECTABLE WARNINGS



SCALE

0 20 40 60

ENTRANCE 1 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
1A	8'	580+07.00	33.00' RT
1B	-	580+07.00	25.00' RT
1C	-	580+15.00	33.00' RT
1D	8'	580+47.00	33.00' RT
1E	-	580+47.00	25.00' RT
1F	-	580+39.00	33.00' RT



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NOTES:
1. * - =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000609
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	8

COUNTY
VARIOUS

JOB NO.
CD0121

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)

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN SHEET
LOCATION 4
LEBANON
ROUTE 64
SHEET 5 OF 13

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

ENTRANCE 2 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
2A	9'	805+78.50	35.75' LT
2B	-	805+78.50	26.75' LT
2C	-	805+87.50	35.75' LT
2D	9'	806+20.00	35.75' LT
2E	-	806+20.00	26.75' LT
2F	-	806+11.00	35.75' LT

ENTRANCE 3 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
3A	9'	806+21.50	35.75' LT
3B	-	806+21.50	26.75' LT
3C	-	806+30.50	35.75' LT
3D	10'	806+80.50	36.75' LT
3E	-	806+80.50	26.75' LT
3F	-	806+70.50	36.75' LT

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE 0 20 40 60

MATCHLINE STA. 581+00

JOSAN, PROPERTIES MISSOURI LLC

EXIST. MODOT R/W

SLOPE LIMITS (TYP.)

MATCH EX. SIDEWALK

SIDEWALK HANDRAILING (UIP)

STORM SEWER MANHOLE (UIP)

TELEPHONE MANHOLES (UIP)

EXIST. CITY R/W

TRAFFIC SIGNAL POST (UIP) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (ADJUST HEIGHT)

EX. PVMT MARKINGS 6" (UIP)

7TH ST

STORM SEWER MANHOLE (UIP)

PED. SIGNAL POST (UIP) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (UIP)

PED. PUSHBUTTON WITH EXTENDER

PED. SIGNAL POST (R) & PED. PUSHBUTTON (R)

EXIST. CITY R/W

SIGNAL PULLBOXES (UIP)

TEMP. ESM'T. (CONST.)

SLOPE LIMITS (TYP.)

CURB RAMP 4-2 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

MATCH EX. SIDEWALK

MATLOCK, PROPERTIES LLC

EXIST. MODOT R/W

WATER METERS (UIP)

STORM SEWER MANHOLE (UIP)

WATER METER (UIP)

SIGNAL PULLBOX (UIP)

LIGHT POLE (UIP)

SIGNS (UIP)

ROUTE 64 (JEFFERSON AVE)

CURB RAMP 4-1 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

PED. PUSHBUTTON W/ EXTENDER

CURB & GUTTER (SPECIAL), 2.0' GUTTER

PED. PUSHBUTTON WITH EXTENDER

TRAFFIC SIGNAL POST (UIP) WITH PED. SIGNAL HEAD (UIP)

END IMPROVEMENTS RTE 5 STA. 808+00.40

CURB & GUTTER (SPECIAL), 2.0' GUTTER

EX. PVMT MARKINGS 6" (UIP)

LIGHT POLE (UIP)

DROP INLETS (UIP)

MEDIAN ISLAND 4-1 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

EX. PVMT MARKINGS 6" (R)

6" S.W. LINE

STA. 808+00.40

583+00

STORM SEWER MH & DROP INLET (UIP)

STA. +98.25 OFF. 32.00'

MATCH EX. SIDEWALK

ROUTE 64 (JEFFERSON AVE)

CP#100

STORM SEWER MANHOLE (UIP)

EXIST. MODOT R/W

POT STA 582+07.80

TRAFFIC SIGNAL POST (UIP) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (UIP)

807+00

CURB & GUTTER (SPECIAL), 2.5' GUTTER

SIGN (UIP)

PED. PUSHBUTTON WITH EXTENDER

CURB RAMP 4-3 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

6.0'

PERM. ESM'T.

SLOPE LIMITS (TYP.)

REMOVE SIDEWALK AND FILL WITH TURF SOD

TEMP. ESM'T. (CONST.)

LIGHT POLE (UIP)

STORM SEWER MANHOLE (UIP)

TRAFFIC SIGN POST (UIP)

EXIST. MODOT R/W

UTILITY POLE (UIP)

STORM SEWER MANHOLE (UIP)

END IMPROVEMENTS RTE 64 STA. 583+50.00

J, K J CORNER STORES LLC

PRIVATE ENT. STA. 806+50.50 LT PAVED APPROACH 8" (CONC.) 39.0' BACK WIDTH @ 5.10% TIE-IN

S43°27'13"W

806+00

UTILITY POLE (UIP)

DROP INLET (UIP) & RCP 12" (UIP)

STORM SEWER MANHOLES (DND)

GRATE INLET (UIP)

OFF. 36.75'

TEMP. ESM'T. (CONST.)

GUY WIRE (UIP)

OFF. 38.25'

ALLEY STA. 805+99.00 LT PAVED APPROACH 8" (CONC.) 22.5' BACK WIDTH @ 9.44% TIE-IN

ALLEY

SANITARY MANHOLE (UIP)

UTILITY POLE (UIP)

ROUTE 5 (7TH ST)

805+00

CURB & GUTTER (SPECIAL), 2.5' GUTTER

EX. CURB & GUTTER (UIP)

SLOPE LIMITS (TYP.)

95 LF OF SIDEWALK WITH 6" INTEGRAL CURB

P, D J C LLC

TEMP. ESM'T. (CONST.)

LIGHT POLE (UIP)

SPEED LIMIT SIGN (REMOVE & INSTALL ON SIGN POST)

32 LF OF SIDEWALK WITH 6" INTEGRAL CURB

CURB RAMP 4-4 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

STORM SEWER MANHOLE (UIP)

UTILITY POLE (UIP)

SIGN (R&RELOC)

GUY WIRES (UIP)

BUILDING (DND)

SHRUB (R)

EXIST. MODOT R/W

UTILITY PULL BOX (ATG)

MATCH EX. SIDEWALK

FIRE HYDRANT (UIP)

WATER VALVE (UIP)

LIGHT POLE (UIP)

WATER METER (UIP)

STORM SEWER MANHOLE (UIP)

6" S.W. LINE

EXIST. CITY R/W

ADAMS AVE

ADAMS AVENUE STA. 803+95.00 LT FULL DEPTH PAVEMENT (CONC.) 40.0' WIDTH @ 1.00% TIE-IN

804+00

CURB & GUTTER (SPECIAL), 2.5' GUTTER

CP #104

OFF. 46.87'

SIGN (UIP)

24" STOP BAR

BEGIN IMPROVEMENTS RTE 5 STA. 803+40.00

EXIST. MODOT R/W

LIGHT POLE (UIP)

UTILITY POLE (UIP)

CURB RAMP 4-5 (SEE SPECIAL SHEET 4 OF 11 FOR DETAILS)

CURB & GUTTER (SPECIAL), 1.5' GUTTER

UTILITY POLE (UIP)

CINKOSKY, RICK & LISA A

SLOPE LIMITS (TYP.)

MATCH EX. SIDEWALK

STORM SEWER MANHOLE (UIP)

EXIST. CITY R/W

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	9

COUNTY: VARIOUS

JOB NO.: CD0121

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION

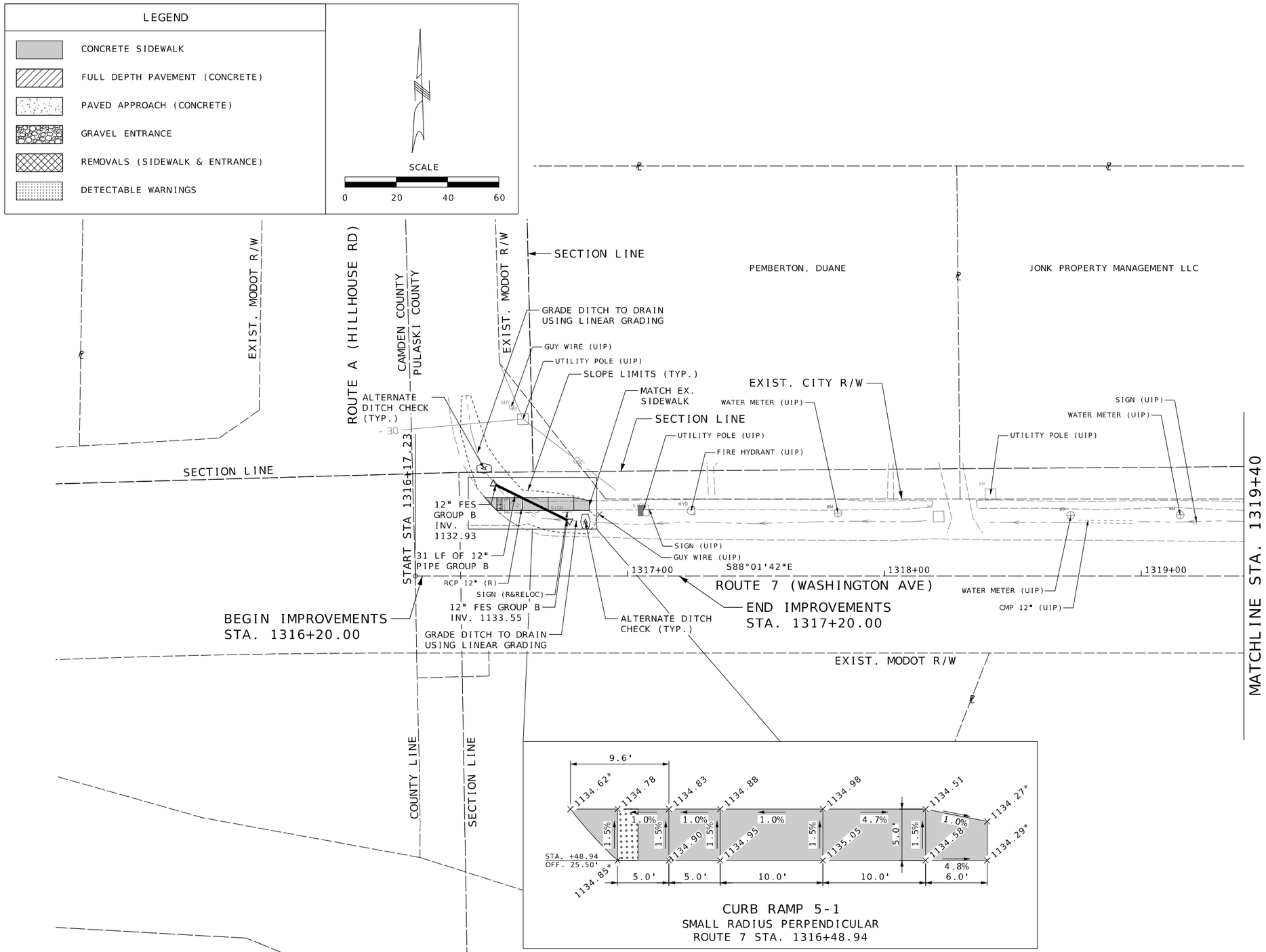
DATE

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

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

ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN SHEET
LOCATION 4
LEBANON
ROUTES 5 & 64
SHEET 6 OF 13



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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 10
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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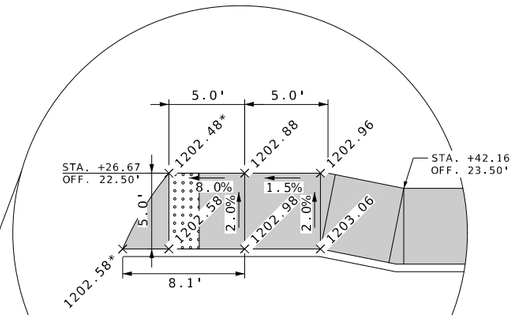
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 5
RICHLAND
ROUTE 7
SHEET 7 OF 13

ENTRANCE 1 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
1A	10'	632+89.50	21.50' RT
1B	-	632+89.50	11.50' RT
1C	-	632+99.50	21.50' RT
1D	10'	633+29.50	21.50' RT
1E	-	633+29.50	11.50' RT
1F	-	633+19.50	21.50' RT

ENTRANCE 2 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
2A	15'	633+93.00	26.00' RT
2B	-	633+93.00	11.00' RT
2C	-	634+08.00	26.00' RT
2D	15'	634+34.00	26.00' RT
2E	-	634+34.00	11.00' RT
2F	-	634+19.00	26.00' RT

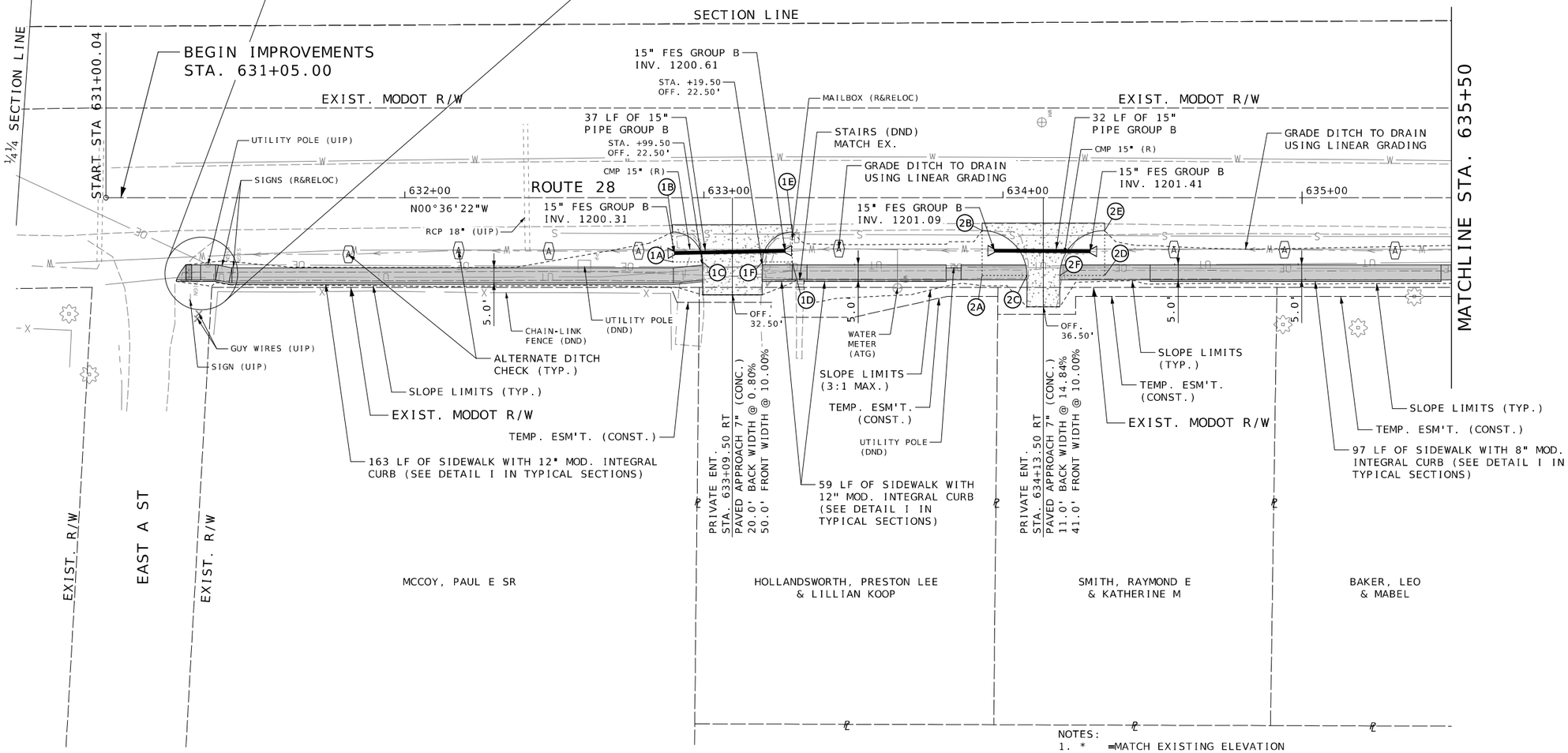


CURB RAMP 6-1
SMALL RADIUS PERPENDICULAR
ROUTE 28 STA. 631+26.67

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 20 40 60



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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	11

COUNTY
VARIOUS

JOB NO.
CD0121

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)

TWM
ENGINEERING
GEOSPATIAL SERVICES
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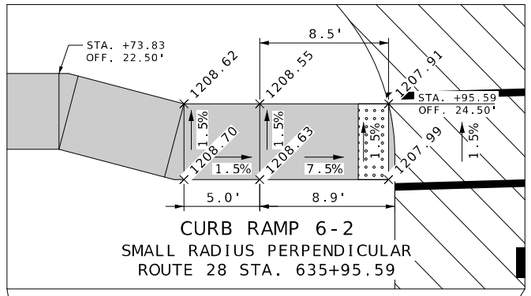
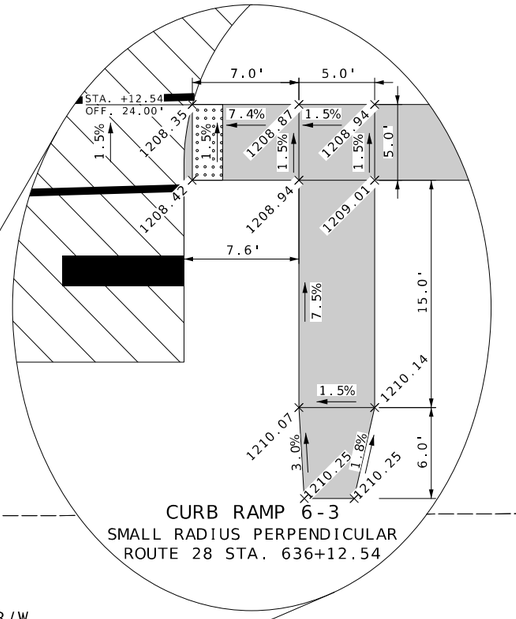
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 8 OF 13

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



CURB RAMP 6-2
SMALL RADIUS PERPENDICULAR
ROUTE 28 STA. 635+95.59



CURB RAMP 6-3
SMALL RADIUS PERPENDICULAR
ROUTE 28 STA. 636+12.54

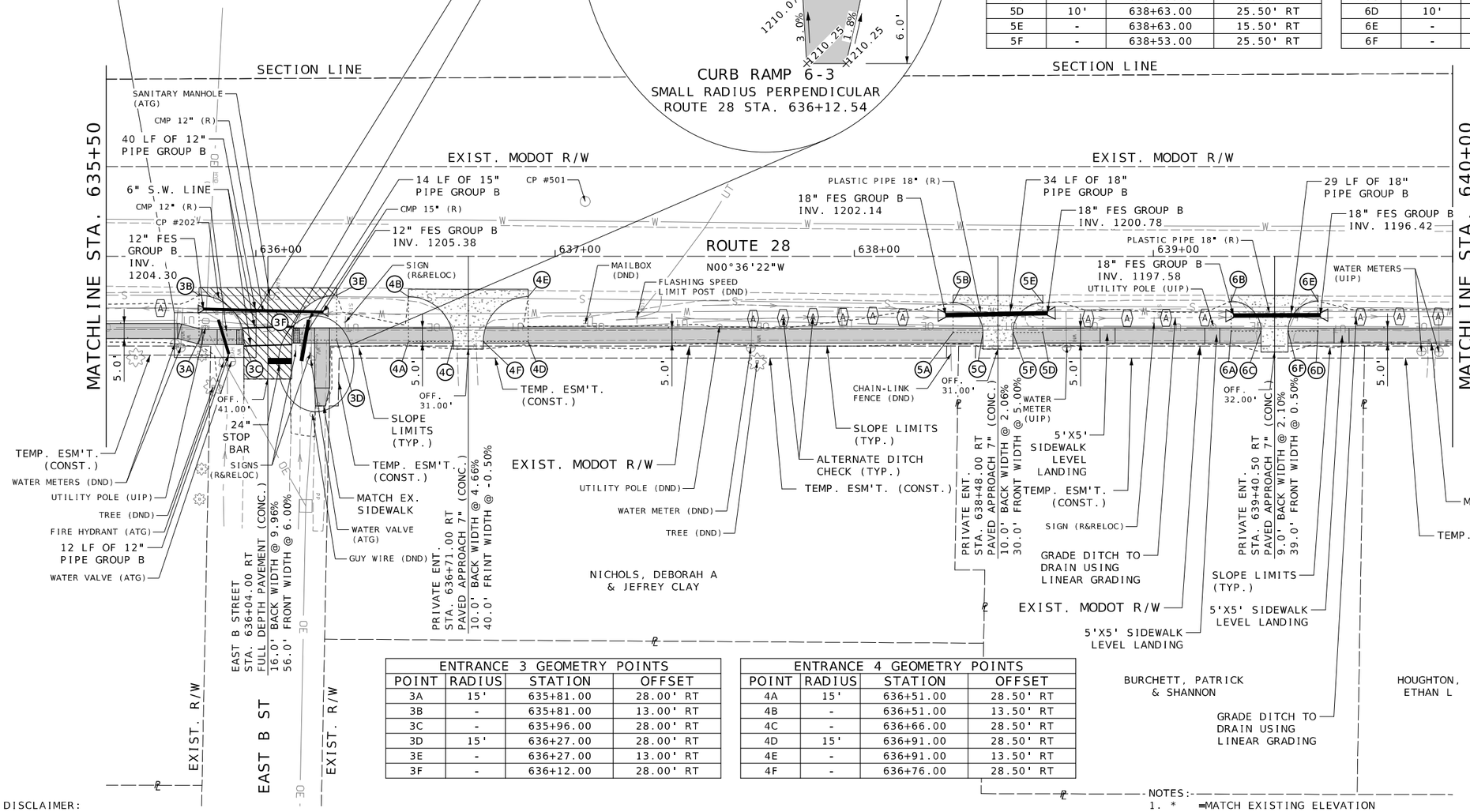
LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 20 40 60

ENTRANCE 5 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
5A	10'	638+33.00	25.50' RT
5B	-	638+33.00	15.50' RT
5C	-	638+43.00	25.50' RT
5D	10'	638+63.00	25.50' RT
5E	-	638+63.00	15.50' RT
5F	-	638+53.00	25.50' RT

ENTRANCE 6 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
6A	10'	639+26.00	25.00' RT
6B	-	639+26.00	15.00' RT
6C	-	639+36.00	25.00' RT
6D	10'	639+55.00	25.00' RT
6E	-	639+55.00	15.00' RT
6F	-	639+45.00	25.00' RT



ENTRANCE 3 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
3A	15'	635+81.00	28.00' RT
3B	-	635+81.00	13.00' RT
3C	-	635+96.00	28.00' RT
3D	15'	636+27.00	28.00' RT
3E	-	636+27.00	13.00' RT
3F	-	636+12.00	28.00' RT

ENTRANCE 4 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
4A	15'	636+51.00	28.50' RT
4B	-	636+51.00	13.50' RT
4C	-	636+66.00	28.50' RT
4D	15'	636+91.00	28.50' RT
4E	-	636+91.00	13.50' RT
4F	-	636+76.00	28.50' RT

NOTES:-
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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/16/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 12
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

PLAN SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 9 OF 13

ENTRANCE 7 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
7A	10'	640+06.00	25.50' RT
7B	-	640+06.00	15.50' RT
7C	-	640+16.00	25.50' RT
7D	10'	640+36.00	25.50' RT
7E	-	640+36.00	15.50' RT
7F	-	640+26.00	25.50' RT

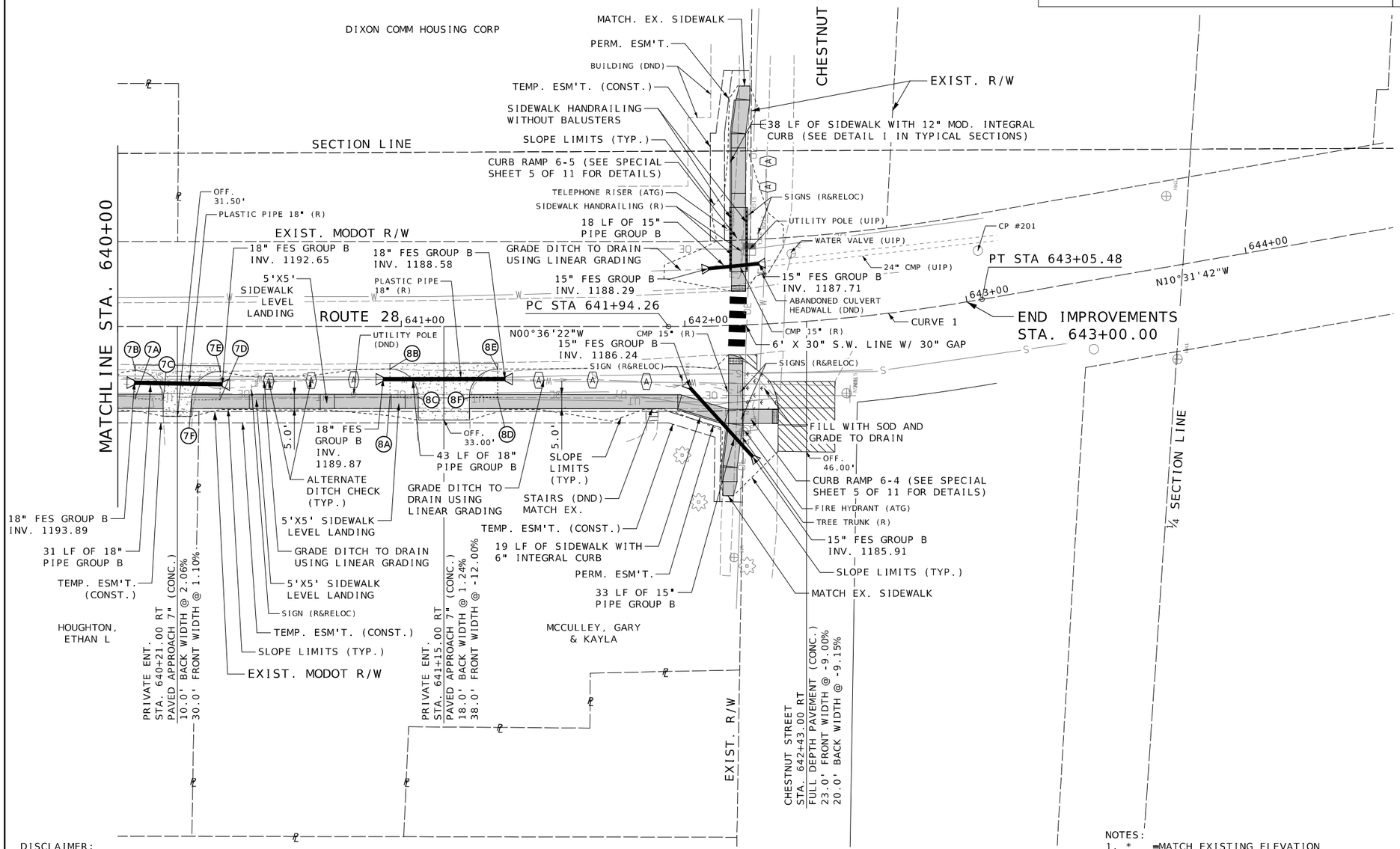
ENTRANCE 8 GEOMETRY POINTS			
POINT	RADIUS	STATION	OFFSET
8A	10'	640+96.00	25.00' RT
8B	-	640+96.00	15.00' RT
8C	-	641+06.00	25.00' RT
8D	10'	641+34.00	25.00' RT
8E	-	641+34.00	15.00' RT
8F	-	641+24.00	25.00' RT

℄ CURVE 1	
PI	642+50.01
PC	641+94.26
PT	643+05.48
Δ	9°55'20.2" (LT)
D	8°55'18.0"
L	111.22' (ARC)
T	55.75'
R	642.21'

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE 0 20 40 60



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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	13

COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

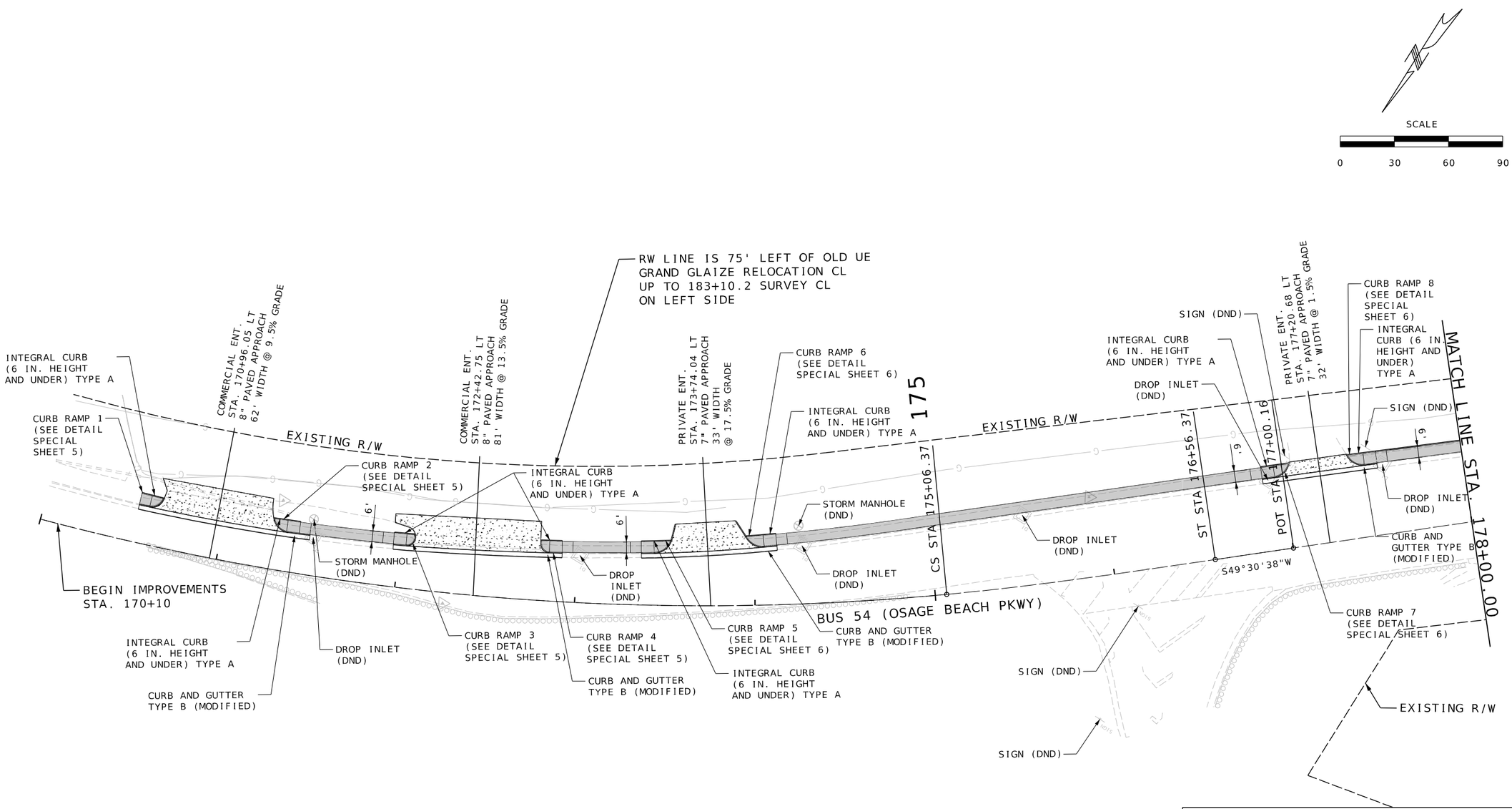
DESCRIPTION	DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

PLAN SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 10 OF 13



LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2001149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 14
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.865.3370
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

PLAN SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 11 OF 13

SCALE

0 30 60 90

MATCH LINE STA. 178+00.00

POT STA 179+05.36

PRIVATE ENT. STA. 179+20.66 LT 7" PAVED APPROACH 43' WIDTH @ 9.5% GRADE

PRIVATE ENT. STA. 183+09.65 LT 7" PAVED APPROACH 29' WIDTH @ -3.73% GRADE

PRIVATE ENT. STA. 183+52.12 LT 7" PAVED APPROACH 32' WIDTH @ -1.1% GRADE

END STA 185+38.33

184+16 END MODOT RW
BEGIN OSAGE BEACH

BUS 54 (OSAGE BEACH PKWY)

S49°30'46"W

S51°05'46"W

PREFORMED THERMOPLASTIC 6 IN. WHITE

EXISTING R/W

JEFFRIES RD

INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A

CURB RAMP 9 (SEE DETAIL SPECIAL SHEET 7)

CURB RAMP 10 (SEE DETAIL SPECIAL SHEET 7)

CURB RAMP 11 (SEE DETAIL SPECIAL SHEET 7)

CURB RAMP 12 (SEE DETAIL SPECIAL SHEET 7)

CURB RAMP 13 (SEE DETAIL SPECIAL SHEET 8)

CURB RAMP 14 (SEE DETAIL SPECIAL SHEET 8)

CURB RAMP 15 (SEE DETAIL SPECIAL SHEET 8)

CURB RAMP 16 (SEE DETAIL SPECIAL SHEET 8)

CURB AND GUTTER TYPE B (MODIFIED)

CLASS C EXCEVATION (ROCK CUT LIMITS)

END INTEGRAL CURB (6 IN. HIEGHT AND UNDER) TYPE A STA. 182+03.17

SANITARY MANHOLE (DND)

TELEPHONE POLE (DND)

TELEPHONE MANHOLE (DND)

SIGN (DND)

SIGN (R&REL)

LIGHT POLE (DND)

DROP INLET (DND)

SIGNAL PULL BOX (DND)

6' 5' ME

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED: 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	15

COUNTY: VARIOUS

JOB NO.: CD0121

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

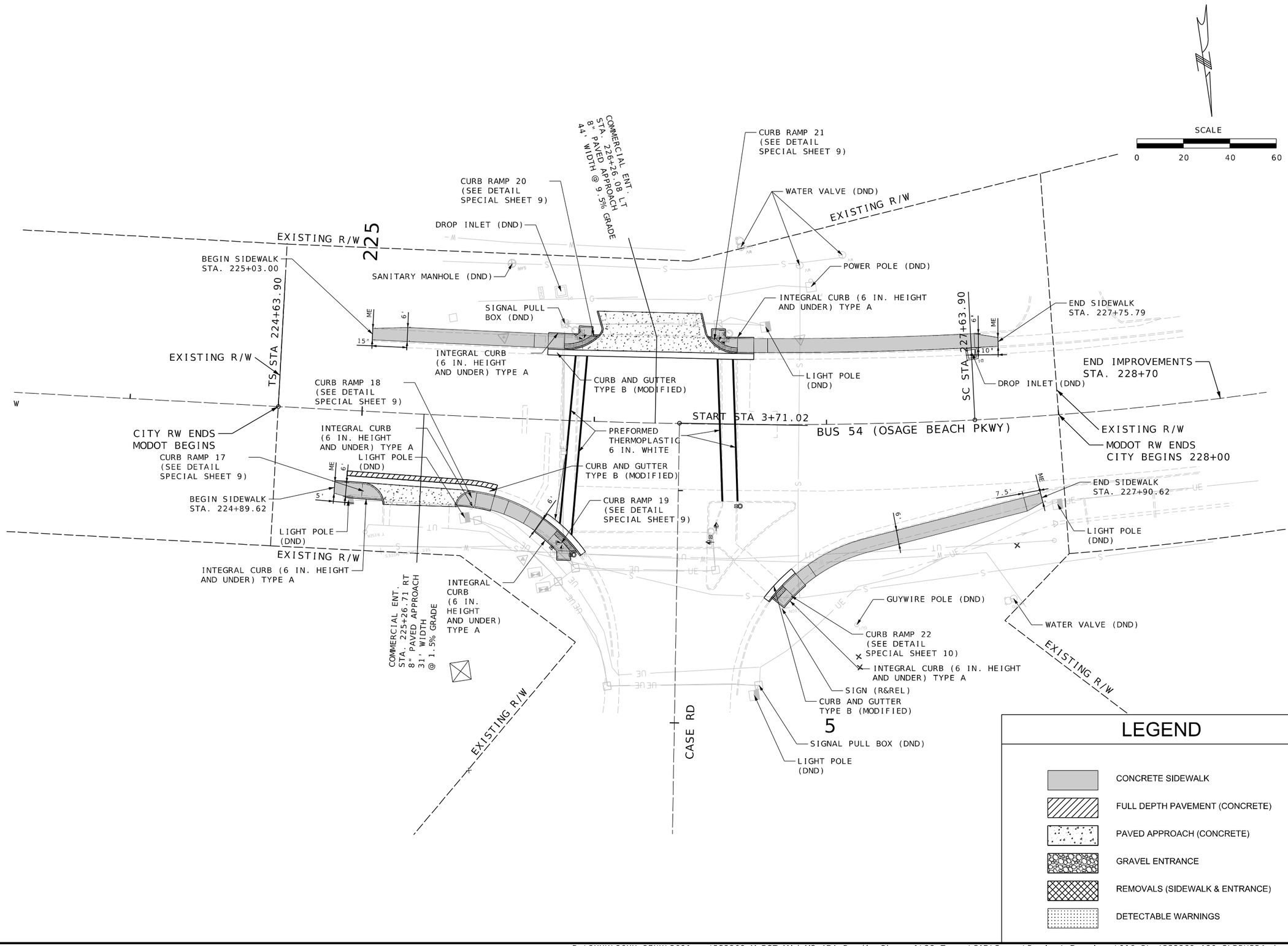
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.3570

CDI ENGINEERS
CIVIL DESIGN, INC.

Missouri State Certificate of Authority # 2002006804

PLAN SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 12 OF 13



STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	16

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

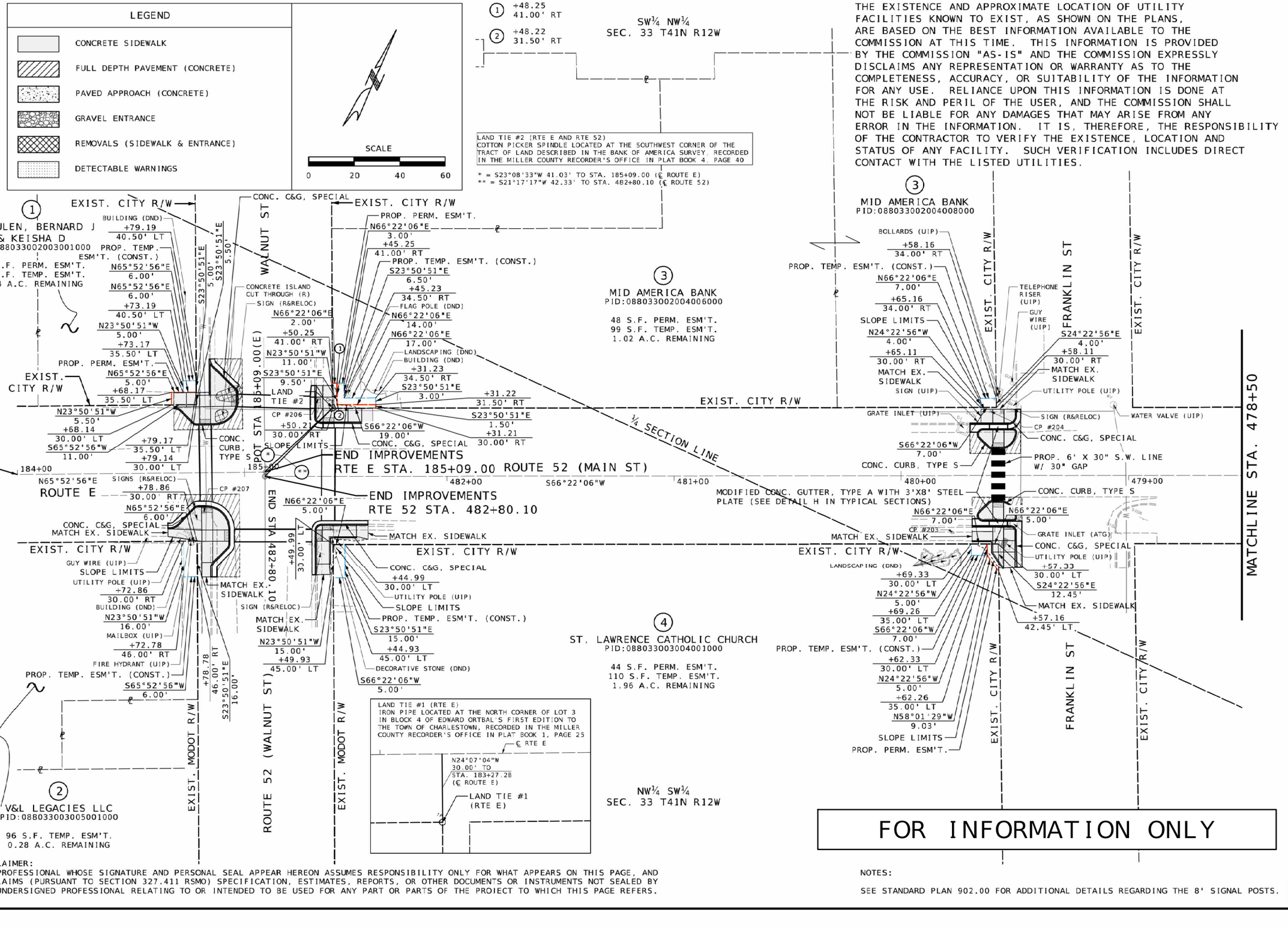
DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI ENGINEERS
CIVIL DESIGN, INC.
Missouri State Certificate
of Authority #2002006804

PLAN SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 13 OF 13



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NOTES:

SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/10/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 17
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

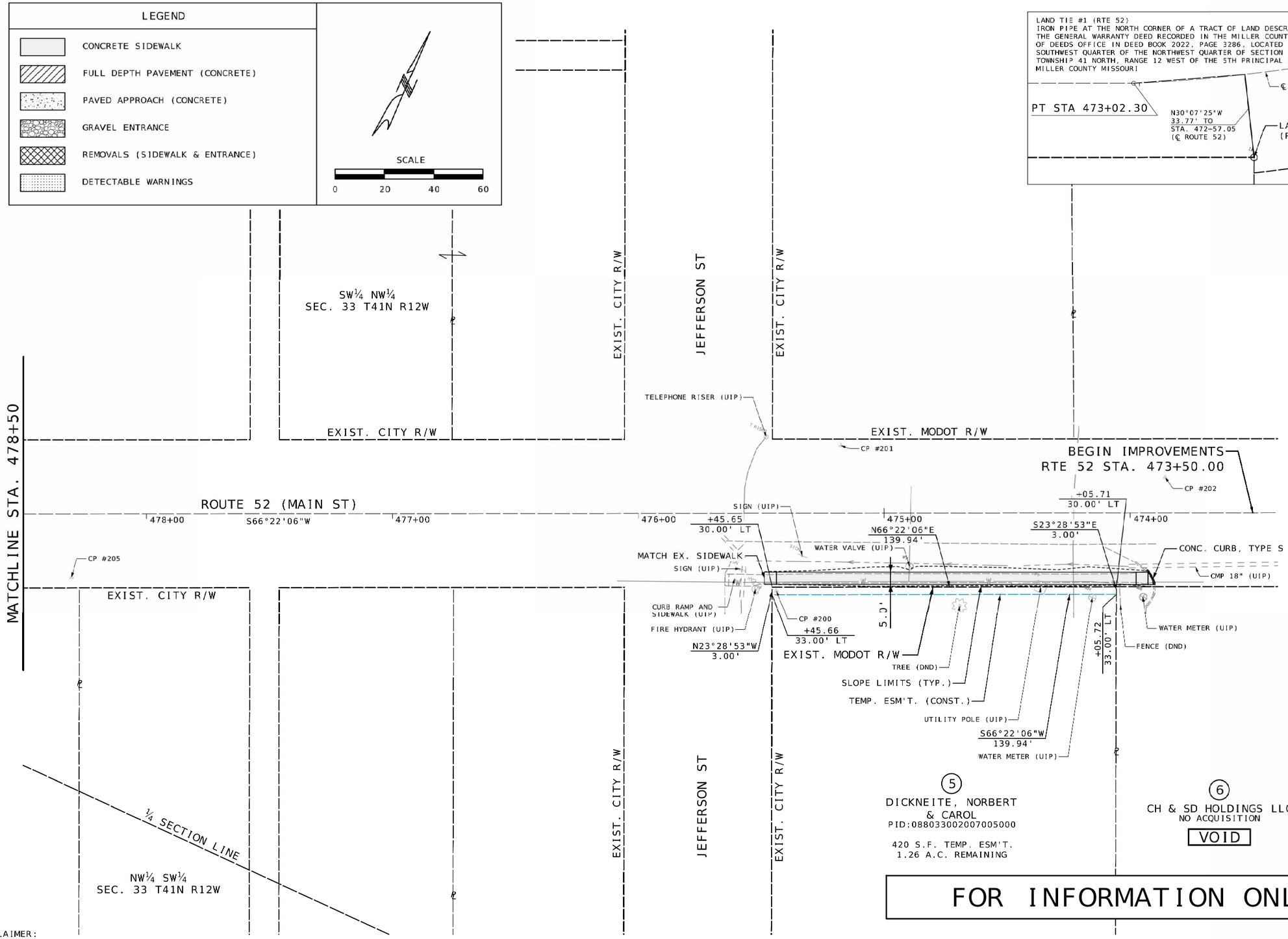
DESCRIPTION | DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY SHEET
LOCATION 1
ST. ELIZABETH
ROUTE 52
SHEET 1 OF 8



FOR INFORMATION ONLY

NOTES:

SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 18
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY SHEET
LOCATION 1
ST. ELIZABETH
ROUTE 52
SHEET 2 OF 8

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FOR INFORMATION ONLY

(A) CURVE R=1,176.74' & L=132.37'
CHORD N38°44'16"W & L=132.30'

(B) CURVE R=1,108.74' & L=76.39'
CHORD S35°11'25"E & L=76.37'

(C) N52°50'09"E
15.00'

(7)
SCHOOL OF THE OSAGE RII DISTRICT
PID:143052000000013000

SW¼ SE¼
SEC. 5 T39N R15W

5,574 S.F. TEMP. ESM'T.
139.72 A.C. REMAINING

SE¼ SE¼
SEC. 5 T39N R15W

¼¼ SECTION LINE

LAND TIE #1
AN IRON ROD AT THE NW CORNER OF GOVERNMENT LOT 1, NE 1/4, SEC 5, T39N, R15W RECORDED IN SURVEY NO. 2000-01-1824

LAND TIE #1
S31°13'00"E
1780.45' TO
STA. 53+04.80
(℄ ROUTE 42)
PT STA 53+04.80
℄ RTE 42

SAW CUT TO NEAREST JOINT AND REPLACE CONCRETE
SIGN (UIP)
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
EXIST. SIGNAL ESM'T.
DROP INLET (UIP)
6' X 30" S.W. LINE W/ 30" GAP
SIGN (R&RELOC)
PROP. TEMP. ESM'T. (CONST.)
MATCH EX. SIDEWALK
S39°29'14"E
104.57'
+00.00
30'-65' LT
PED. MIDBLOCK CROSSING & YIELD TRIANGLES (R)
SLOPE LIMITS
N48°02'23"E
35.00'
REMOVE SIDEWALK AND FILL WITH TURF SOD
CONC. CURB, TYPE S
SAW CUT TO NEAREST JOINT AND REPLACE CONCRETE
+99.00
65.00' LT
S11°58'49"W
46.91'
PROP. 24" STOP BAR
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
SLOPE LIMITS
CONC. C&G, SPECIAL
SIGNAL PULLBOX (UIP)
TRAFFIC SIGNAL POST (UIP) WITH PED. SIGNAL HEAD (R)
+29.00
30.00' LT
REMOVE SIDEWALK AND FILL WITH TURF SOD
EXIST. MODOT R/W
EXIST. MODOT R/W
CP #102
GRATE INLET (UIP)
PED. MIDBLOCK CROSSING (R)
TRAFFIC SIGNAL POST (UIP) WITH PED. SIGNAL HEAD (R)
PROP. 6' X 30" S.W. LINE W/ 30" GAP
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
GRATE INLET (ATG)
CURVE 1
BEGIN IMPROVEMENTS
STA. 54+50.00
ROUTE 42
54+00
55+00
56+00
57+00
58+00
S43°05'59"E
PC STA 54+77.20
PED. MIDBLOCK CROSSING (R)
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
ROUTE 42
END IMPROVEMENTS
STA. 57+00.00
SIGNAL PULLBOX (UIP)
SIGN (UIP)
SIGNAL PULLBOXES (UIP)
LIGHT POLE (UIP)
TRAFFIC SIGNAL POST (UIP)
TRAFFIC SIGNAL POST (UIP) WITH PED. SIGNAL HEAD (R)
SIGNAL PULLBOX (UIP)
S56°47'00"W
10.00'
CP #100
EXIST. MODOT R/W
TELEPHONE MANHOLE (UIP)
PED. MIDBLOCK CROSSING & YIELD TRIANGLES (R)
+75.00
38'-48' RT
N33°47'28"W
22.04'
WATER VALVES (UIP)
EXIST. MODOT R/W
WATER VALVE (UIP)
FIRE HYDRANT (UIP)
UTILITY POLE (UIP)
CP #101
SIGN (UIP)
+96.00
38'-53' RT
PROP. 6' X 30" S.W. LINE W/ 30" GAP
SIGNAL CONTROLLERS (UIP)
SIGNAL PULLBOX (UIP)
+52.00
48.00' RT
SIGNAL PULLBOX (UIP)
FIRE HYDRANT (UIP)
EXIST. SIGNAL ESM'T.
N02°04'20"W
35.47'
PROP. TEMP. ESM'T. (CONST.)
MATCH EX. SIDEWALK
LIGHT POLE (UIP)
+27.00
73.00' RT
N81°32'11"W
34.44'
REMOVE SIDEWALK AND FILL WITH TURF SOD
SLOPE LIMITS
CONC. CURB, TYPE S

LAND TIE #2
PT STA 62+87.20
℄ RTE 42
N77°07'36"W
1252.09' TO
STA. 62+87.20
(℄ ROUTE 42)
LAND TIE #2
AN IRON ROD AT THE NE CORNER OF TRACT 2, IN THE SURVEY FOR SHAWN COOPER RECORDED IN PLAT BOOK 1, PAGE 14 SEC 5, T39N, R15W

LEGEND	
	CONCRETE SIDEWALK
	FULL DEPTH PAVEMENT (CONCRETE)
	PAVED APPROACH (CONCRETE)
	GRAVEL ENTRANCE
	REMOVALS (SIDEWALK & ENTRANCE)
	DETECTABLE WARNINGS

SCALE
0 20 40 60

℄ CURVE 1	
PI	58+99.92
PC	54+77.20
PT	62+87.20
Δ	40°28'15.0" (RT)
D	4°59'47.0"
L	810.00' (ARC)
T	422.72'
R	1,146.74'

NOTES:

SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	19

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY SHEET
LOCATION 3
OSAGE BEACH
ROUTE 42
SHEET 3 OF 8

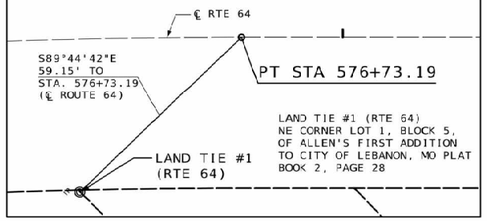
NO ACQUISITIONS THIS SHEET

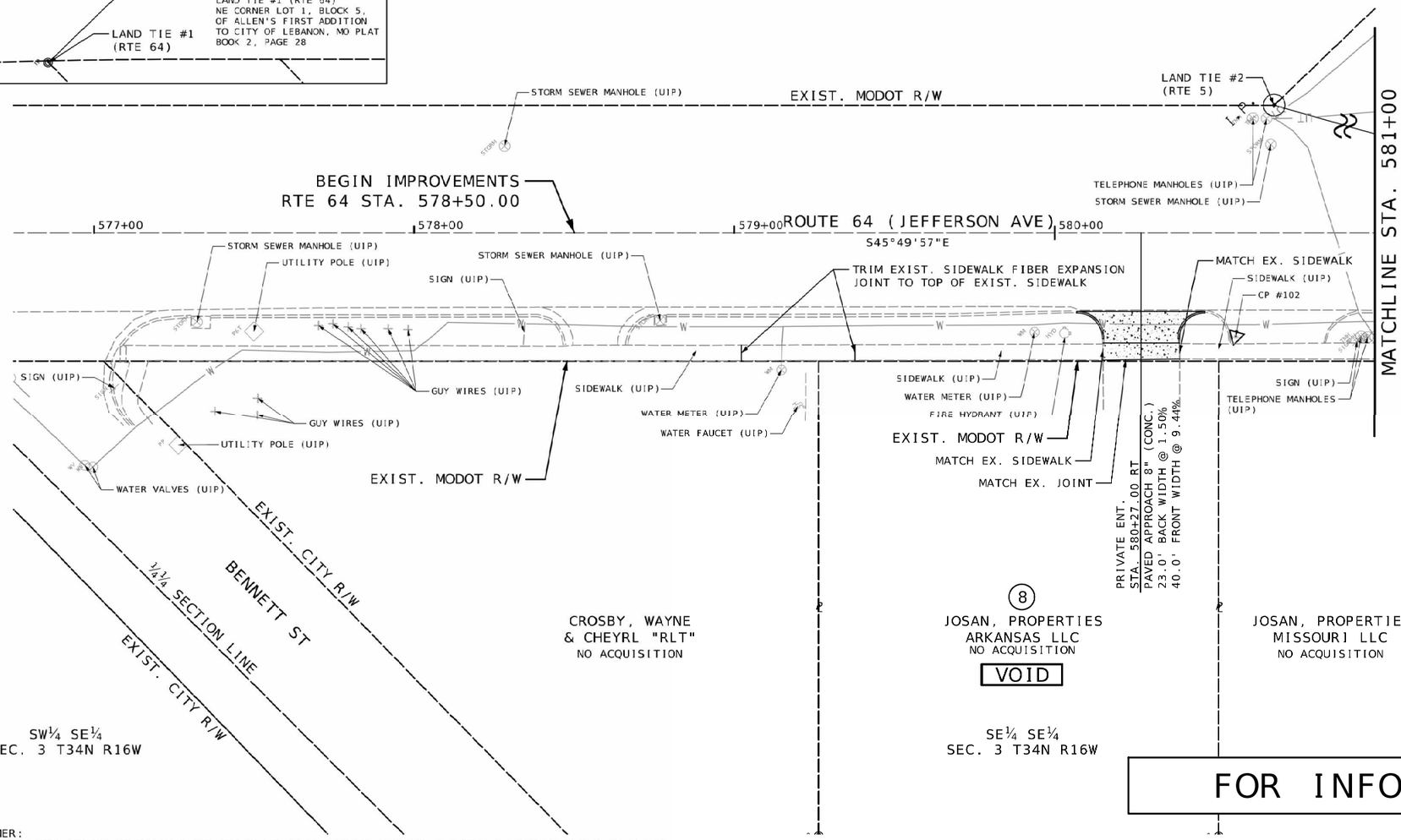
LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 20 40 60

LAND TIE #2 (RTE 5)
SW COR LOT 2 IN THE SUBDIVIONS PLAT OF BLOCK 2 & 4 IN THE OAK HILLS ADDITION TO THE CITY OF LEBANON MO PLAT BOOK 7, PAGE 125





FOR INFORMATION ONLY

NOTES:

SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 20
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

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(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

RIGHT OF WAY SHEET
LOCATION 4
LEBANON
ROUTE 64
SHEET 4 OF 8

LAND TIE #1 (RTE 5)
E COR LOT 1 IN THE SUBDIVIONS PLAT OF BLOCK 2 & 4 IN THE OAK HILLS ADDITION TO THE CITY OF LEBANON MO PLAT BOOK 7, PAGE 125

LAND TIE #2 (RTE 5)
SW COR LOT 2 IN THE SUBDIVIONS PLAT OF BLOCK 2 & 4 IN THE OAK HILLS ADDITION TO THE CITY OF LEBANON MO PLAT BOOK 7, PAGE 125

1	+72.34 40.00' LT	7	+91.00 48.00' LT	A	N45°57'47"W 7.90'	G	S45°57'47"E 24.21'
2	+64.44 40.00' LT	8	+91.00 40.00' LT	B	N06°42'43"W 13.08'	H	S44°02'13"W 8.00'
3	+54.31 48.28' LT	9	+41.67 110.75' LT	C	N43°27'13"E 6.50'	I	N45°57'47"W 18.66'
4	+54.24 54.78' LT	10	+41.02 174.74' LT	D	S06°44'00"E 23.36'		
5	+54.21 58.28' LT	11	+48.52 174.82' LT	E	N43°27'13"E 3.50'		
6	+66.79 48.00' LT	12	+49.17 110.83' LT	F	S06°44'00"E 16.25'		

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE 0 20 40 60

FOR INFORMATION ONLY

MATCHLINE STA. 581+00

JOSAN, PROPERTIES MISSOURI LLC
NO ACQUISITION
EXIST. MODOT R/W
MATCH EX. SIDEWALK
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
SIDEWALK HANDRAILING (UIP)
STORM SEWER MANHOLE (UIP)
TELEPHONE MANHOLES (UIP)
EXIST. CITY R/W
TRAFFIC SIGNAL POST (UIP) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (UIP)
EX. PVMT MARKINGS 6" (UIP)
7TH ST STORM SEWER MANHOLE (UIP)
PED. PUSHBUTTON STANCHION (R) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (R)
PED. PUSHBUTTON STANCHION (R) WITH PED. PUSHBUTTON (R)
SIGNAL PULLBOXES (UIP)
EXIST. CITY R/W
+36.18
46.60'-51.60' RT
N44°02'13"E
5.00'
N61°09'18"W
9.14'
PROP. TEMP. ESM'T. (CONST.)
+45.00
44.21'-49.21' RT
S44°02'13"W
5.00'
SLOPE LIMITS
S61°09'18"E
9.14'
9 MATLOCK, PROPERTIES LLC
PID:132003004028006000
44 S.F. TEMP. ESM'T.
0.68 A.C. REMAINING
WATER METERS (UIP)
STORM SEWER MANHOLE (UIP)
EXIST. MODOT R/W
WATER METER (UIP)
UTILITY POLE (UIP)
SIGNS (UIP)
SIGNAL PULLBOX (UIP)
SLOPE LIMITS
CONC. C&G, SPECIAL
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER (2) & PED. SIGNAL HEAD (1)
TRAFFIC SIGNAL POST (UIP) WITH PED. SIGNAL HEAD (R&R)
CONC. C&G, SPECIAL
EX. PVMT MARKINGS 6" (UIP)
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
UTILITY POLE (UIP)
DROP INLETS (UIP)
MATCH EX. SIDEWALK
EX. PVMT MARKINGS 6" (R)
PROP. 6" S.W. LINE
ROUTE 64 (JEFFERSON AVE)
583+00
STORM SEWER MH & DROP INLET (UIP)
MATCH EX. SIDEWALK
EXIST. MODOT R/W
UTILITY POLE (UIP)
STORM SEWER MANHOLE (UIP)
END IMPROVEMENTS RTE 64 STA. 583+50.00
ROUTE 64 (JEFFERSON AVE)
S29°53'58"E 144.71' TO STA. 808+00.40 (℄ ROUTE 5)
STORM SEWER MANHOLE (UIP)
CP#100
EXIST. MODOT R/W
END IMPROVEMENTS RTE 5 STA. 808+00.40
POT STA 582+07.80
SIGNAL PULLBOX (UIP)
TRAFFIC SIGNAL POST (UIP) WITH PED. PUSHBUTTON (R) & PED. SIGNAL HEAD (UIP)
PROP. 8' SIGNAL POST WITH PED. PUSHBUTTON W/ EXTENDER & PED. SIGNAL HEAD
SIGN (UIP)
LIGHT POLE (UIP)
DROP INLET (UIP) & RCP 12" (UIP)
STORM SEWER MANHOLES (UIP)
GRATE INLET (UIP)
EXIST. MODOT R/W
PROP. PERM. ESM'T.
SLOPE LIMITS
REMOVE SIDEWALK AND FILL WITH TURF SOD
PROP. TEMP. ESM'T. (CONST.)
LIGHT POLE (UIP)
STORM SEWER MANHOLE (UIP)
TRAFFIC SIGN POST (UIP)
EXIST. MODOT R/W
UTILITY POLE (UIP)
STORM SEWER MANHOLE (UIP)
10 J, K J CORNER STORES LLC
PID:132003004026002000
91 S.F. PERM. ESM'T.
705 S.F. TEMP. ESM'T.
0.65 A.C. REMAINING
PRIVATE ENT. STA. 806+50.70 LT PAVED APPROACH 8" (CONC.) 39.6' WIDTH @ 3.00% TIE-IN
EXIST. MODOT R/W
CONC. C&G, SPECIAL
807+00
S43°27'13"W
S46°32'47"E 7.50'
N46°32'47"W 7.50'
GUY WIRE (UIP)
PROP. TEMP. ESM'T. (CONST.)
N43°27'13"E 64.00'
S43°27'13"W 64.00'
ALLEY STA. 805+99.40 LT PAVED APPROACH 8" (CONC.) 22.4' WIDTH @ 7.60% TIE-IN
UTILITY POLE (UIP)
SANITARY MANHOLE (UIP)
+86.97
35.00' LT
806+00
N46°08'05"W 3.50'
UTILITY POLE (UIP)
+86.99
38.50' LT
S43°27'13"W 148.94'
N43°27'13"E 151.07'
PROP. TEMP. ESM'T. (CONST.)
LIGHT POLE (UIP) & SPEED LIMIT SIGN (REMOVE & REPLACE ON SEPARATE POLE)
N46°32'47"W 12.50'
11 P, D J C LLC
PID:132003004026001000
555 S.F. TEMP. ESM'T.
0.16 A.C. REMAINING
+38.05
38.50'-51.00' LT
S43°27'13"W 2.00'
+36.05
51.00' LT
TELEPHONE MH (UIP)
MATCH EX. SIDEWALK
FIRE HYDRANT (UIP)
WATER VALVE (UIP)
LIGHT POLE (UIP)
WATER METER (UIP)
STORM SEWER MANHOLE (UIP)
PROP. 6" S.W. LINE
EXIST. CITY R/W
ADAMS AVENUE STA. 803+95.20 LT FULL DEPTH PAVEMENT (CONC.) 40.0' WIDTH @ 1.00% TIE-IN
ADAMS AVE
BEGIN IMPROVEMENTS RTE 5 STA. 803+40.00
LAND TIE #1 (RTE 5)
EXIST. MODOT R/W
S46°32'47"E 35.26' TO STA. 804+33.13 (℄ ROUTE 5)
STORM SEWER MANHOLE (UIP)
UTILITY POLE (UIP)
LIGHT POLE (UIP)
+35.90
35.00' LT
S45°58'50"E 16.00'
ROUTE 5 (7TH ST)
805+00
804+00
CONC. C&G, SPECIAL
SIGN (R&RELOC)
BUILDING (DND)
GUY WIRES (UIP)
SLOPE LIMITS
UTILITY POLE (UIP)
CP #104
SIGN (R&RELOC)
CINKOSKY, RICK & LISA A
NO ACQUISITION
SLOPE LIMITS
MATCH EX. SIDEWALK
STORM SEWER MANHOLE (UIP)
EXIST. CITY R/W
LAND TIE #2 (RTE 64)
N44°02'13"E 39.72' TO STA. 584+36.05 (℄ ROUTE 64)
℄ RTE 64
LAND TIE #2 (RTE 64)
N COR LOT 4, BLOCK 9, OF OAK HILL ADDITION PLAT BOOK 1, PAGE 21
SE¼ SE¼
SEC. 3 T34N R16W

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NOTES:

SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/10/2024
ROUTE VARIOUS
STATE MO
DISTRICT CD
SHEET NO. 21
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY SHEET
LOCATION 4
LEBANON
ROUTES 5 & 64
SHEET 5 OF 8

(1)	+98.51 30.00' RT	(5)	+22.40 40.00' RT	(A)	S89°58'44"E 5.00'	(E)	N89°58'44"W 5.00'
(2)	+98.46 35.00' RT	(6)	+22.46 35.00' RT	(B)	N89°56'47"E 3.00'	(F)	S89°56'47"W 6.00'
(3)	+81.48 33.00' RT	(7)	+24.30 33.00' RT	(C)	S00°36'22"E 16.81'	(G)	N89°56'47"E 6.00'
(4)	+50.00 40.00' RT	(8)	+24.24 39.00' RT	(D)	S00°36'22"E 27.60'	(H)	S00°36'22"E 26.00'

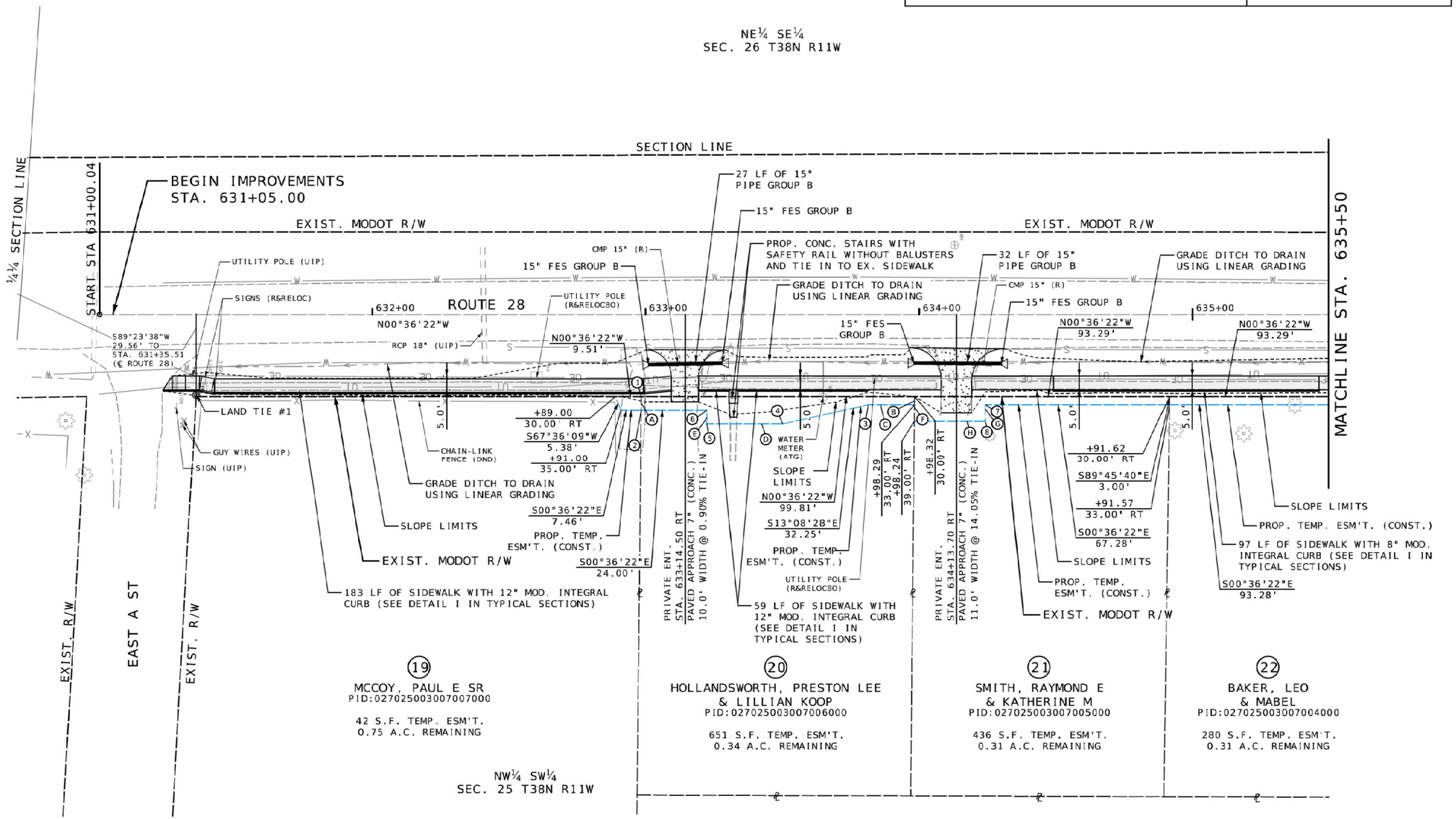
LAND TIE #1
IRON ROD NEAR SW COR TRACT D SURVEY SB6-3441
DATED 12/29/1976

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 20 40 60

FOR INFORMATION ONLY



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NOTES:

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	22

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 6 OF 8

1	+84.91 30.00' RT	A	S89°28'11"E 3.00'
2	+84.85 33.00' RT	B	S89°39'33"E 4.00'
3	+24.92 30.00' RT	C	S89°28'11"E 16.00'
4	+30.89 30.00' RT	D	S00°36'22"E 3.00'
5	+30.82 34.00' RT	E	N89°28'11"W 20.00'
6	+27.84 34.00' RT	F	N89°39'33"W 4.00'
7	+27.52 50.00' RT		
8	+24.52 50.00' RT		
9	+40.48 34.00' RT		
10	+40.55 30.00' RT		

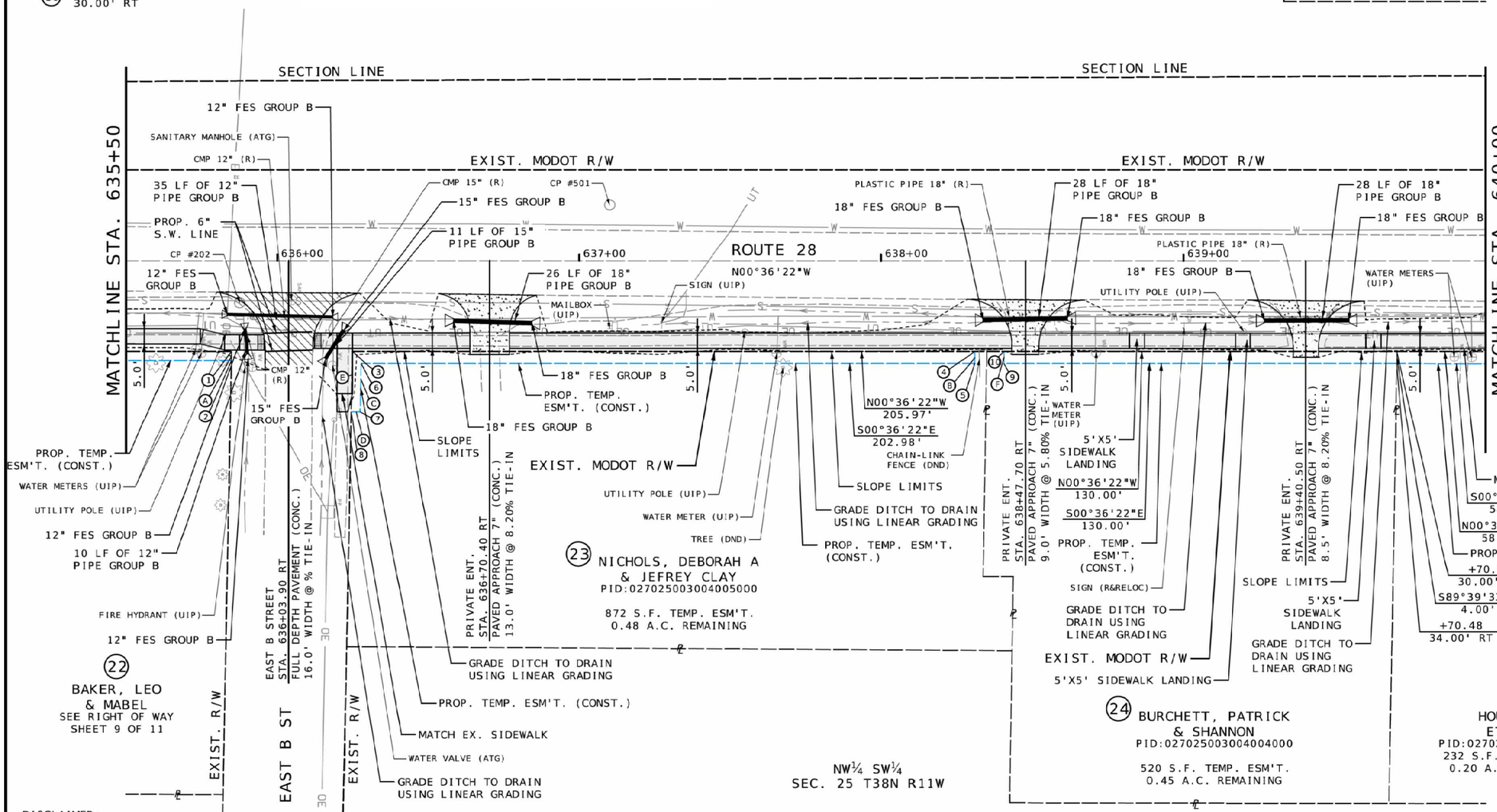
FOR INFORMATION ONLY

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE 0 20 40 60

NE¼ SE¼
SEC. 26 T38N R11W



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NOTES:

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/10/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 23
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 7 OF 8

FOR INFORMATION ONLY

℄ CURVE 1	
PI	642+50.01
PC	641+94.26
PT	643+05.48
Δ	9°55'20.2" (LT)
D	8°55'18.0"
L	111.22' (ARC)
T	55.75'
R	642.21'

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE 0 20 40 60

NE¼ SE¼
SEC. 26 T38N R11W

(27) DIXON COMM HOUSING CORP
PID:027026004001001000

531 S.F. PERM. ESM'T.
256 S.F. TEMP. ESM'T.
3.09 A.C. REMAINING

CHESTNUT ST

EXIST. R/W

MATCH. EX. SIDEWALK
PROP. PERM. ESM'T.
BUILDING (DND)
PROP. TEMP. ESM'T. (CONST.)
SIDEWALK HANDRAILING WITHOUT BALUSTERS
SLOPE LIMITS
TELEPHONE RISER (R&RELOCBO)
SIDEWALK HANDRAILING (R)
38 LF OF SIDEWALK WITH 12" MOD. INTEGRAL CURB (SEE DETAIL I IN TYPICAL SECTIONS)
SECTION LINE
15 LF OF 15" PIPE GROUP B
SIGNS (R&RELOC)
UTILITY POLE (UIP)
15" FES GROUP B
EXIST. MODOT R/W
WATER VALVE (UIP)
GRADE DITCH TO DRAIN USING LINEAR GRADING
24" CMP (UIP)
PLASTIC PIPE 18" (R)
18" FES GROUP B
PC STA 641+94.26
ABANDONED CULVERT HEADWALL (DND)
CURVE 1
CMP 15" (R)
N00°36'22"W 15" FES GROUP B
PROP. 6' X 30" S.W. LINE W/ 30" GAP
13 LF OF 15" PIPE GROUP B
SLOPE LIMITS
SIGNS (R&RELOC)
15" FES GROUP B
9 LF OF 15" PIPE GROUP B
FIRE HYDRANT (ATG)
TREE TRUNK (R)
MATCH EX. SIDEWALK
PROP. PERM. ESM'T.
45 LF OF SIDEWALK WITH 6" MOD. INTEGRAL CURB (SEE DETAIL I IN TYPICAL SECTIONS)
PROP. TEMP. ESM'T. (CONST.)
MATCH EX. SIDEWALK
GRADE DITCH TO DRAIN USING LINEAR GRADING
MATCHLINE STA. 640+00
ROUTE 28
641+00
642+00
643+00
644+00
5'X5' SIDEWALK LANDING
UTILITY POLE (UIP)
5.0'
S00°36'22"E 165.74'
N00°36'22"W 165.67'
18" FES GROUP B
5'X5' SIDEWALK LANDING
43 LF OF 18" PIPE GROUP B
GRADE DITCH TO DRAIN USING LINEAR GRADING
5'X5' SIDEWALK LANDING
PROP. TEMP. ESM'T. (CONST.)
SLOPE LIMITS
EXIST. MODOT R/W
18" FES GROUP B
30 LF OF 18" PIPE GROUP B
PROP. TEMP. ESM'T. (CONST.)
PRIVATE ENT. STA. 640+21.20 RT PAVED APPROACH 7" (CONC.) 10.5' WIDTH @ 6.30% TIE-IN
PRIVATE ENT. STA. 641+15.00 RT PAVED APPROACH 7" (CONC.) 18.5' WIDTH @ 2.90% TIE-IN
EXIST. R/W
CHESTNUT STREET STA. 642+42.70 RT FULL DEPTH PAVEMENT (CONC.) 20.0' WIDTH @ -9.80% TIE-IN

(25) HOUGHTON, ETHAN L
SEE RIGHT OF WAY SHEET 10 OF 11

(26) MCCULLEY, GARY & KAYLA
PID:027025003004002000

312 S.F. PERM. ESM'T.
781 S.F. TEMP. ESM'T.
0.53 A.C. REMAINING

NW¼ SW¼
SEC. 25 T38N R11W

LAND TIE #2
NE COR NE 1/4 SE 1/4 SEC 26, T38N, R11W PLAT BOOK 16, PAGE 164

PC STA 644+54.41
LAND TIE #2
N79°51'42"E 48.23' TO STA. 644+58.75 (℄ ROUTE 28)
PT STA 643+05.48
N10°31'42"W
END IMPROVEMENTS STA. 643+00.00
EXIST. R/W
¼ SECTION LINE

1	+28.59 30.00' RT	A	S89°39'33"E 4.00'
2	+28.52 34.00' RT	B	CURVE R=672.21' & L=26.59' CHORD N01°44'21"W & L=26.59'
3	+94.26 30.00' RT	C	S89°41'21"E 32.46'
4	+19.66 30.00' RT	D	S00°18'39"W 8.00'
5	+18.02 62.41' RT	E	N89°41'21"W 26.13'
6	+10.73 62.03' RT	F	S16°27'23"W 19.33'
7	+11.77 35.92' RT	G	S00°18'39"W 2.00'
8	+08.91 61.95' RT	H	N89°41'21"W 22.73'
9	+09.74 39.24' RT	I	S16°27'23"W 17.18'
10	+94.26 34.00' RT	J	S89°23'38"W 38.02'
11	+14.97 30.00' LT	K	N83°28'52"W 22.14'
12	+16.34 68.00' LT	L	N00°18'00"W 6.79'
13	+20.41 89.85' LT	M	N89°42'00"E 59.59'
14	+28.29 89.50' LT	N	CURVE R=612.21' & L=9.23' CHORD S02°53'07"E & L=9.23'
15	+24.65 30.00' LT	O	CURVE R=612.21' & L=5.00' CHORD S02°13'11"E & L=5.00'
16	+09.72 30.00' LT	P	S89°23'38"W 38.01'
17	+10.75 68.00' LT	Q	N02°03'36"W 2.00'
18	+12.98 68.00' LT	R	N83°28'52"W 22.26'
19	+16.94 89.98' LT	S	N00°18'00"W 2.99'

NOTES:

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/10/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 24
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

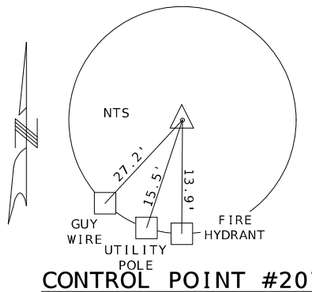
DESCRIPTION | DATE

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

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

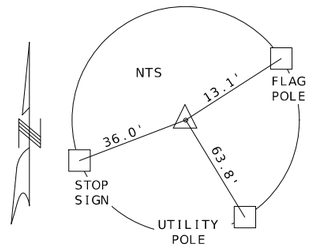
TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

RIGHT OF WAY SHEET
LOCATION 6
DIXON
ROUTE 28
SHEET 8 OF 8



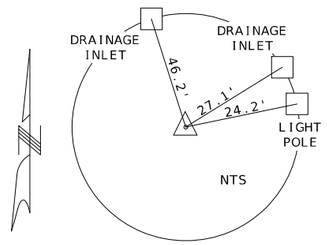
CONTROL POINT #207

CUT X
LOCATION 1 - RTE E
N = 882249.4280'
E = 1707083.1280'
ELEV. 819.59'
STA. = 184+81.94
OFFSET = 17.43' RT



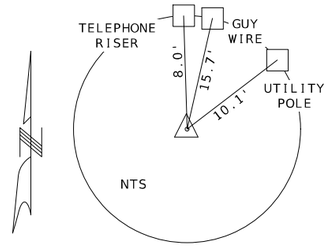
CONTROL POINT #206

CUT X
LOCATION 1 - RTE 52
N = 882315.3970'
E = 1707109.3270'
ELEV. 820.68'
STA. = 482+56.57
OFFSET = 34.15' RT



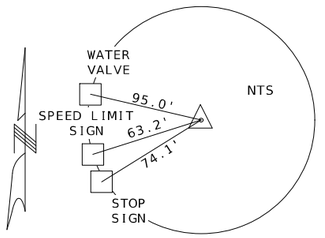
CONTROL POINT #203

CUT X
LOCATION 1 - RTE 52
N = 882373.0370'
E = 1707388.7360'
ELEV. 817.20'
STA. = 479+77.49
OFFSET = 25.04' LT



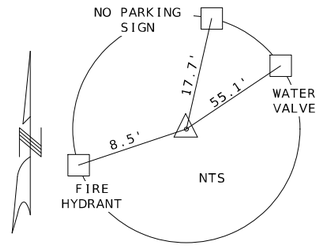
CONTROL POINT #204

CUT X
LOCATION 1 - RTE 52
N = 882428.6780'
E = 1707382.7730'
ELEV. 817.4000'
STA. = 479+60.65
OFFSET = 28.32' RT



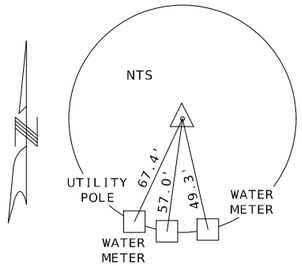
CONTROL POINT #205

CUT X
LOCATION 1 - RTE 52
N = 882431.3680'
E = 1707523.6660'
ELEV. 811.36'
STA. = 478+30.49
OFFSET = 25.69' LT



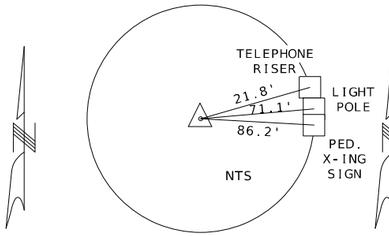
CONTROL POINT #200

SET IR W/ CAP
LOCATION 1 - RTE 52
N = 882540.9500'
E = 1707788.5750'
ELEV. 805.57'
STA. = 475+43.87
OFFSET = 31.49' LT



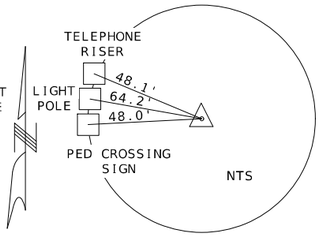
CONTROL POINT #202

SET IR W/ CAP
LOCATION 1 - RTE 52
N = 882646.3540'
E = 1707914.9820'
ELEV. 802.45'
STA. = 473+85.81
OFFSET = 14.41' RT



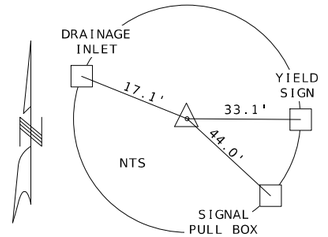
CONTROL POINT #211

SET IR W/ CAP
LOCATION 2 - RTE 52
N = 874964.7130'
E = 1651993.1180'
ELEV. 737.46'
STA. = 457+31.60
OFFSET = 22.02' LT



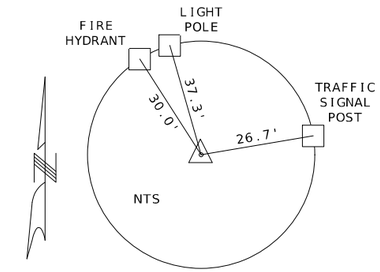
CONTROL POINT #212

SET IR W/ CAP
LOCATION 2 - RTE 52
N = 874959.8370'
E = 1652127.1790'
ELEV. 740.02'
STA. = 458+67.89
OFFSET = 20.50' LT



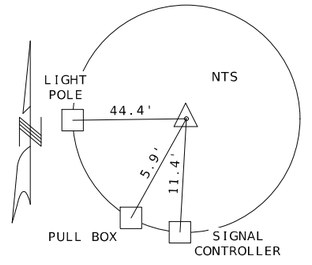
CONTROL POINT #102

PK SET
LOCATION 3 - RTE 42
N = 842107.9000'
E = 1614003.9410'
ELEV. 908.61'
STA. = 54+99.81
OFFSET = 31.80' LT



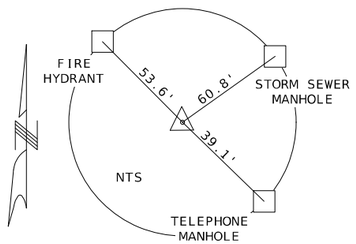
CONTROL POINT #101

PK SET
LOCATION 3 - RTE 42
N = 842028.4100'
E = 1613961.3150'
ELEV. 905.15'
STA. = 55+31.88
OFFSET = 52.62' RT



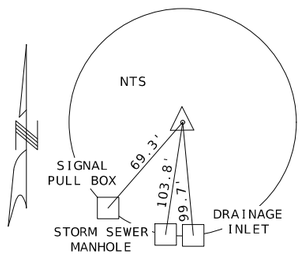
CONTROL POINT #100

PK SET
LOCATION 3 - RTE 42
N = 841949.0860'
E = 1614043.4210'
ELEV. 905.44'
STA. = 56+49.34
OFFSET = 35.62' RT



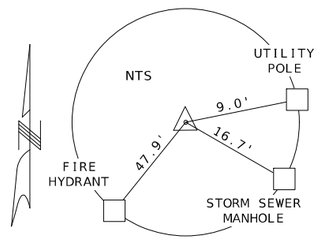
CONTROL POINT #102

CUT X W/ CHEVRON
LOCATION 4 - RTE 64
N = 674635.0200'
E = 1591066.3670'
ELEV. 1237.63'
STA. = 580+56.65
OFFSET = 32.34' RT



CONTROL POINT #100

CUT X W/ CHEVRON
LOCATION 4 - RTE 64
N = 674607.3660'
E = 1591191.9130'
ELEV. 1239.95'
STA. = 581+65.97
OFFSET = 35.30' LT



CONTROL POINT #104

CUT X W/ CHEVRON
LOCATION 4 - RTE 5
N = 674832.6500'
E = 1591520.4470'
ELEV. 1236.62'
STA. = 803+75.08
OFFSET = 42.17' LT

NOTE: ALL UNITS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

STATIONING VARIES BY CONTROL POINT

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	25

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

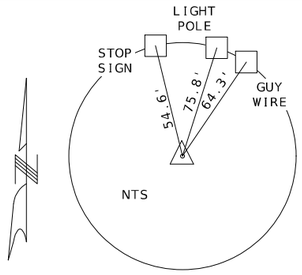
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

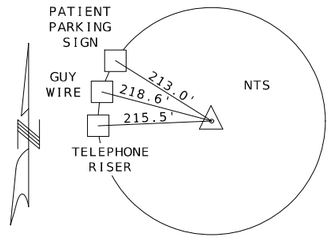
REF/COORD POINTS
ADA IMPROVEMENTS

SHEET 1 OF 4



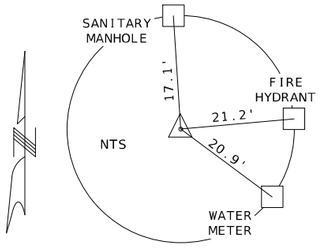
CONTROL POINT #500

SET IR W/ CAP
LOCATION 5 - RTE 7
N = 737806.4090'
E = 1667421.6610'
ELEV. 1135.03'
STA. = 1322+65.63
OFFSET = 19.33' RT



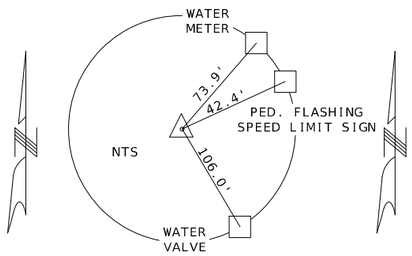
CONTROL POINT #502

SET IR W/ CAP
LOCATION 5 - RTE 7
N = 737777.0020'
E = 1668117.5550'
ELEV. 1144.57'
STA. = 1329+58.23
OFFSET = 26.27' LT



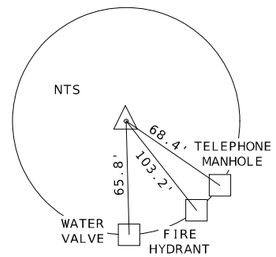
CONTROL POINT #202

MAG SET CHEVRON
LOCATION 6 - RTE 28
N = 784942.5980'
E = 1757676.3760'
ELEV. 1207.04'
STA. = 635+87.50
OFFSET = 13.90' RT



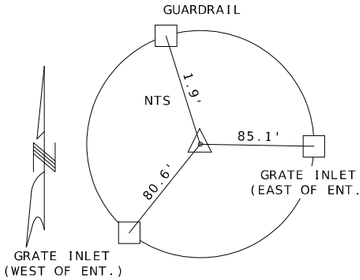
CONTROL POINT #501

MAG SET
LOCATION 6 - RTE 28
N = 785064.8080'
E = 1757642.8420'
ELEV. 1208.30'
STA. = 637+10.06
OFFSET = 18.34' LT



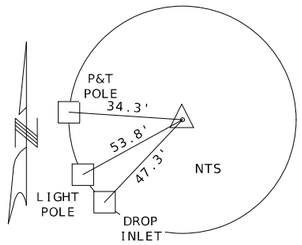
CONTROL POINT #201

MAG SET CHEVRON
LOCATION 6 - RTE 28
N = 785658.0190'
E = 1757628.1230'
ELEV. 1187.33'
STA. = 643+06.93
OFFSET = 17.18' LT



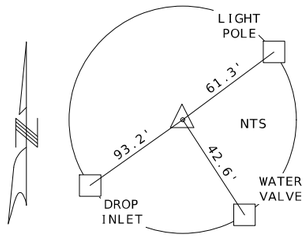
CONTROL POINT #305

PK W/ CHEVRON
LOCATION 7 - BUS 54
N = 837350.2860'
E = 1598203.5150'
ELEV. 694.54'
STA. = 172+27.28
OFFSET = 5.99' RT



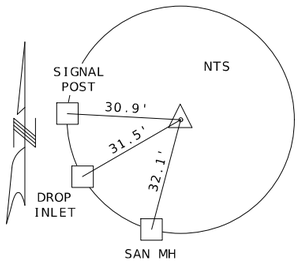
CONTROL POINT #303

PK W/ CHEVRON
LOCATION 7 - BUS 54
N = 836949.4120'
E = 1597627.5380'
ELEV. 731.52'
STA. = 179+28.59
OFFSET = 30.08' RT



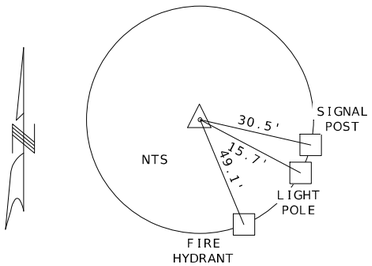
CONTROL POINT #302

PK W/ CHEVRON
LOCATION 7 - BUS 54
N = 836673.3580'
E = 1597391.8790'
ELEV. 755.92'
STA. = 182+85.35
OFFSET = 36.75' LT



CONTROL POINT #101

PK SET
LOCATION 7 - BUS 54
N = 835189.0670'
E = 1593568.0220'
ELEV. 789.42'
STA. = 225+59.60
OFFSET = 34.73' LT



CONTROL POINT #102

PK SET
LOCATION 7 - BUS 54
N = 835208.7960'
E = 1593442.1490'
ELEV. 788.87'
STA. = 226+88.74
OFFSET = 36.87' LT

NOTE: ALL UNITS ARE IN FEET UNLESS OTHERWISE SPECIFIED.

STATIONING VARIES BY CONTROL POINT

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 26
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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(314) 241-6300
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MISSOURI CERT. OF AUTHORITY: 001538

REF/COORD POINTS
ADA IMPROVEMENTS
SHEET 2 OF 4

MILLER COUNTY, LOCATIONS: 1,2,3	
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	TRILATERATION
PROJECT PROJECTION FACTOR	1.0000986
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MODOT VRS
DESIGNATION	MODOT ELDON CORS ARP
CORS_ID	MOEL
PID	DL6153
LATITUDE	38°20'49.67807"N
LONGITUDE	92°35'43.33473"W
NORTHING (M)	278,965.62
EASTING (M)	491,663.55
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99989301

LACLEDE COUNTY, LOCATIONS: 4	
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	TRILATERATION
PROJECT PROJECTION FACTOR	1.0001211
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MODOT VRS
DESIGNATION	MODOT NEBO CORS ARP
CORS_ID	MONF
PID	DN7496
LATITUDE	37°34'19.54020"N
LONGITUDE	92°20'33.30403"W
NORTHING (M)	192,952.77
EASTING (M)	513,905.22
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99988666

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CONTROL POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)	DESCRIPTION	GPK POINT ID
ALIGNMENTS (LOCATION 1 - ST ELIZABETH - RTE E - RTE 52)								
1	184+81.94	RT	17.43	882249.4280	1707083.1280	819.5900	CUT X	207
1	482+56.57	RT	34.15	882315.3970	1707109.3270	820.6800	CUT X	206
1	479+77.48	LT	25.04	882373.0370	1707388.7360	817.2000	CUT X	203
1	479+60.64	RT	28.32	882428.6780	1707382.7730	817.4000	CUT X	204
2	478+30.49	LT	25.69	882431.3680	1707523.6660	811.3600	CUT X	205
2	475+43.87	LT	31.49	882540.9500	1707788.5750	805.5700	SET IR W/ CAP	200
2	473+85.81	RT	14.41	882646.3540	1707914.9820	802.4500	SET IR W/ CAP	202
ALIGNMENTS (LOCATION 2 - TUSCUMBIA - RTE 52)								
3	458+67.89	LT	20.50	874959.8370	1652127.1790	740.0200	SET IR W/ CAP	212
3	457+31.60	LT	22.02	874964.7130	1651993.1180	737.4600	SET IR W/ CAP	211
ALIGNMENTS (LOCATION 3 - OSAGE BEACH - RTE 42)								
4	54+99.81	LT	31.80	842107.9000	1614003.9410	908.6100	PK SET	102
4	55+31.88	RT	52.62	842028.4100	1613961.3150	905.1500	PK SET	101
4	56+49.34	RT	35.62	841949.0860	1614043.4210	905.4400	PK SET	100
ALIGNMENTS (LOCATION 4 - LEBANON - RTE 64 - RTE 5)								
5	580+56.65	RT	32.34	674635.0200	1591066.3670	1237.6300	CUT X W/ CHEVRON	102
6	581+65.97	LT	35.30	674607.3660	1591191.9130	1239.9500	CUT X W/ CHEVRON	100
6	803+75.08	LT	42.17	674832.6500	1591520.4470	1236.6200	CUT X W/ CHEVRON	104
ALIGNMENTS (LOCATION 5 - RICHLAND - RTE 7)								
8	1322+65.63	RT	19.33	737806.4090	1667421.6610	1135.0300	SET IR W/ CAP	500
9	1329+58.23	LT	26.27	737777.0020	1668117.5550	1144.5700	SET IR W/ CAP	502
ALIGNMENTS (LOCATION 6 - DIXON - RTE 28)								
11	635+87.50	RT	13.90	784942.5980	1757676.3760	1207.0400	MAG SET CHEVRON	202
11	637+10.06	LT	18.34	785064.8080	1757642.8420	1208.3000	MAG SET	501
12	643+06.93	LT	17.18	785658.0190	1757628.1230	1187.3300	MAG SET CHEVRON	201
ALIGNMENTS (LOCATION 7 - OSAGE BEACH - OLD BUS 54)								
13	172+27.28	RT	5.99	837350.2860	1598203.5150	694.5400	PK W/ CHEVRON	305
14	179+28.59	RT	30.08	836949.4120	1597627.5380	731.5200	PK W/ CHEVRON	303
14	182+85.35	LT	36.75	836673.3580	1597391.8790	755.9200	PK W/ CHEVRON	302
15	225+59.60	LT	34.73	835189.0670	1593568.0220	789.4200	PK SET	101
15	226+88.74	LT	36.87	835208.7960	1593442.1490	788.8700	PK SET	102

COORDINATE POINT LISTING (1 OF 1)

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)	DESCRIPTION	GPK POINT ID
ALIGNMENTS (ST_ELIZABETH_RTE_E)								
	181+56.10			882132.1900	1706778.6100		BEGIN STATIONING	
	184+00.00			882231.8510	1707001.2200		BEGIN IMPROVEMENTS	
	185+09.00			882276.3900	1707100.7050		END STATIONING/IMPROVEMENTS	
ALIGNMENTS (ST_ELIZABETH_RTE_52)								
	468+57.92			882980.0950	1708299.4610		PC/BEGIN STATIONING	
	470+92.82	LT	45.94	882755.1270	1708199.5150		PI	
	473+02.30			882666.6330	1707997.2650		PT	
	473+50.00			882647.5110	1707953.5620		BEGIN IMPROVEMENTS	
	482+80.10			882274.6770	1707101.4620		END STATIONING/IMPROVEMENTS	
ALIGNMENTS (TUSCUMBIA_RTE_52)								
	433+70.94			876884.4100	1650779.1580		BEGIN STATIONING	
	452+21.90			875220.5390	1651590.0800		PC	
	454+96.90	RT	86.89	874944.7440	1651724.4940		PI	
	457+50.00			874941.3990	1652009.3860		BEGIN IMPROVEMENTS	
	457+71.90			874940.6240	1652031.2730		PT - BK STA EQUATION	
	457+72.25			874940.6240	1652031.2730		PT - AH STA EQUATION	
	458+50.00			874939.5750	1652109.3630		END IMPROVEMENTS	
	462+06.30			874934.7950	1652465.2820		END STATIONING	

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 27
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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REF/COORD POINTS
ADA IMPROVEMENTS
SHEET 3 OF 4

PULASKI COUNTY, LOCATIONS: 5,6	
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	TRILATERATION
PROJECT PROJECTION FACTOR	1.0001009
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MODOT VRS
DESIGNATION	MODOT ST ROBERT CORS ARP
CORS_ID	MOSR
PID	DL6906
LATITUDE	37°49'14.66178"N
LONGITUDE	92°09'15.38864"W
NORTHING (M)	220,592.88
EASTING (M)	530,437.70
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99989589

CAMDEN COUNTY, LOCATIONS: 7	
PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED STATE PLANE (GROUND)
HORIZONTAL DATUM	NAD 83 (2011)
VERTICAL DATUM	NAVD 88
GEOID MODEL	GEOID 18
ELEVATIONS DETERMINED BY	TRILATERATION
PROJECT PROJECTION FACTOR	1.0000986
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MO COORDINATE SYSTEM OF 1983
CONTROL STATION	MODOT VRS
DESIGNATION	MODOT CAMENTON CORS ARP
CORS_ID	MOCD
PID	DM4114
LATITUDE	38°02'09.39158"N
LONGITUDE	92°46'23.11422"W
NORTHING (M)	244,456.62
EASTING (M)	476,027.36
ZONE	CENTRAL
PROJECT AVERAGE GRID FACTOR	0.99989851

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COORDINATE POINT LISTING (2 OF 2)

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)	DESCRIPTION	GPK POINT ID
ALIGNMENTS (OSAGE_BEACH_RTE_42)								
	35+12.90			843183.9410	1612336.4300		BEGIN STATIONING	
	48+92.30			842485.9130	1613526.1780		PC	
	50+98.55	LT	14.98	842380.8150	1613705.3110		PI	
	53+04.80			842229.1690	1613847.2170		PT	
	54+50.00			842123.1490	1613946.4280		BEGIN IMPROVEMENTS	
	54+77.20			842103.2880	1613965.0130		PC	
	57+00.00			841926.8870	1614100.5360		END IMPROVEMENTS	
	58+82.20	LT	75.43	841794.6300	1614253.8480		PI	
	62+87.20			841372.3510	1614273.2370		PT	
	72+07.00			840453.5190	1614315.4250		END STATIONING	
ALIGNMENTS (LEBANON_RTE_64)								
	572+73.19			675171.7460	1590499.6530		PC/BEGIN STATIONING	
	574+73.19	LT	10.64	675065.2670	1590669.8390		PI	
	576+73.19			674925.3930	1590813.8390		PT	
	578+50.00			674802.1990	1590940.6660		BEGIN IMPROVEMENTS	
	582+07.80			674552.8990	1591197.3190		POT	
	583+50.00			674454.0530	1591299.5450		END IMPROVEMENTS	
	586+65.00			674235.0900	1591525.9960		END STATIONING	
ALIGNMENTS (LEBANON_RTE_5)								
	796+72.40			675371.7500	1591973.1200		BEGIN STATIONING	
	803+40.00			674887.1180	1591513.9670		BEGIN IMPROVEMENTS	
	808+00.40			674552.8990	1591197.3190		END STATIONING/IMPROVEMENTS	
ALIGNMENTS (RICHLAND_RTE_7)								
	1316+17.23			737848.0400	1666774.3100		BEGIN STATIONING	
	1316+20.00			737847.9440	1666777.0780		BEGIN IMPROVEMENTS	
	1327+25.90			737809.8970	1667882.3210		PC	
	1328+50.00			737791.6240	1668004.8000		END IMPROVEMENTS	
	1329+27.25	LT	39.37	737802.6370	1668093.2070		PI	
	1331+28.60			737655.4050	1668244.3630		PT	
	1337+63.49			737212.4130	1668699.1620		END STATIONING	
ALIGNMENTS (DIXON_RTE_28)								
	631+00.04			784455.0130	1757667.6320		BEGIN STATIONING	
	631+05.00			784459.9730	1757667.5800		BEGIN IMPROVEMENTS	
	641+94.26			785549.1740	1757656.0570		PC	
	642+49.87	RT	2.42	785604.9180	1757655.4670		PI	
	643+00.00			785654.3370	1757646.2590		END IMPROVEMENTS	
	643+05.48			785659.7270	1757645.2810		PT	
	644+54.41			785806.1570	1757618.0670		PC	
	645+11.87	LT	2.60	785862.8020	1757607.5390		PI	
	645+69.33			785920.4180	1757607.3430		PT	
	645+98.32			785949.4040	1757607.2440		BK STA EQUATION	
	646+00.00			785949.4040	1757607.2440		AH STA EQUATION	
	647+78.00			786127.4010	1757606.6380		END STATIONING	
ALIGNMENTS (OSAGE_BEACH_BUS_54_E)								
	167+80.80			837480.4550	1598630.0050		BEGIN STATIONING	
	169+30.80			837448.0690	1598483.5620		SC (SPIRAL)	
	170+10.00			837426.1700	1598407.4600		BEGIN IMPROVEMENTS	
	172+34.18	RT	43.81	837381.0180	1598180.3750		PI	
	175+06.37			837197.6390	1597969.6260		CS (SPIRAL)	
	176+56.37			837102.2640	1597853.8760		ST (SPIRAL)	
	177+00.16			837073.8290	1597820.5700		POT	
	179+05.36			836940.5970	1597664.5050		POT	
	185+38.33			836543.0820	1597171.9270		END STATIONING	
ALIGNMENTS (OSAGE_BEACH_BUS_54_W)								
	222+14.74			835153.7300	1593912.4850		BEGIN STATIONING	
	224+63.90			835204.1300	1593668.4740		TS (SPIRAL)	
	227+63.90			835254.4990	1593372.8810		SC (SPIRAL)	
	228+70.00			835261.0630	1593267.0100		END IMPROVEMENTS	
	230+26.40	RT	64.25	835320.4400	1593105.3520		PI	
	235+88.90			835111.2870	1592569.7180		END STATIONING	

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 28
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

REF/COORD POINTS
ADA IMPROVEMENTS
SHEET 4 OF 4

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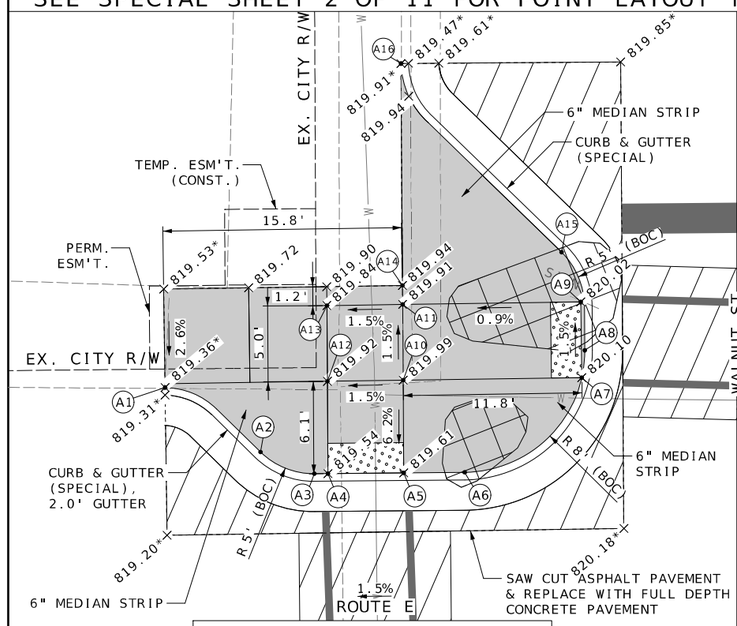
SEE SPECIAL SHEET 2 OF 11 FOR POINT LAYOUT TABLES.

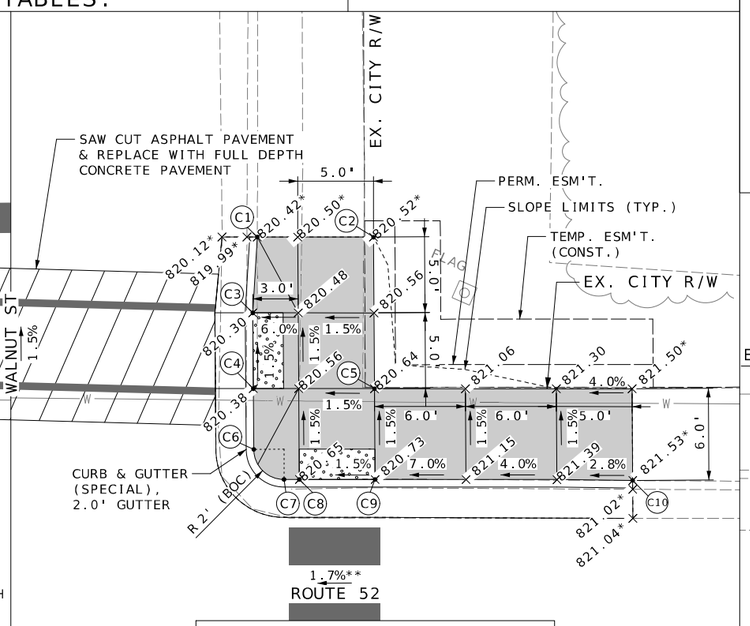
NOTES:
1. * =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

LEGEND
- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

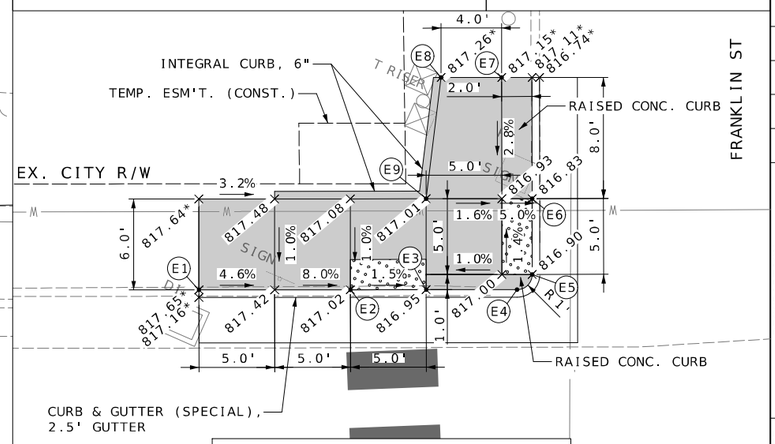
SCALE 0 5 10 15



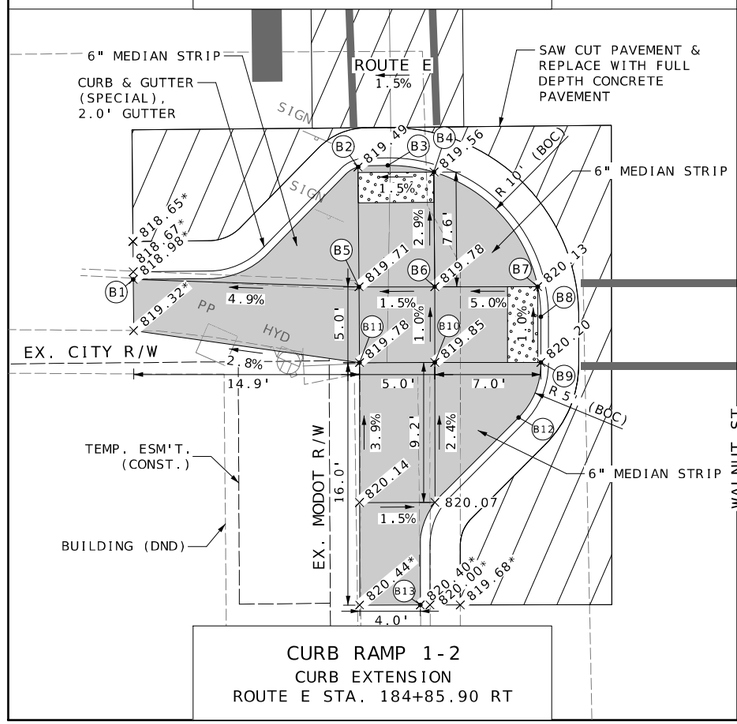
CURB RAMP 1-1
CURB EXTENSION
ROUTE E STA. 184+84.85 LT



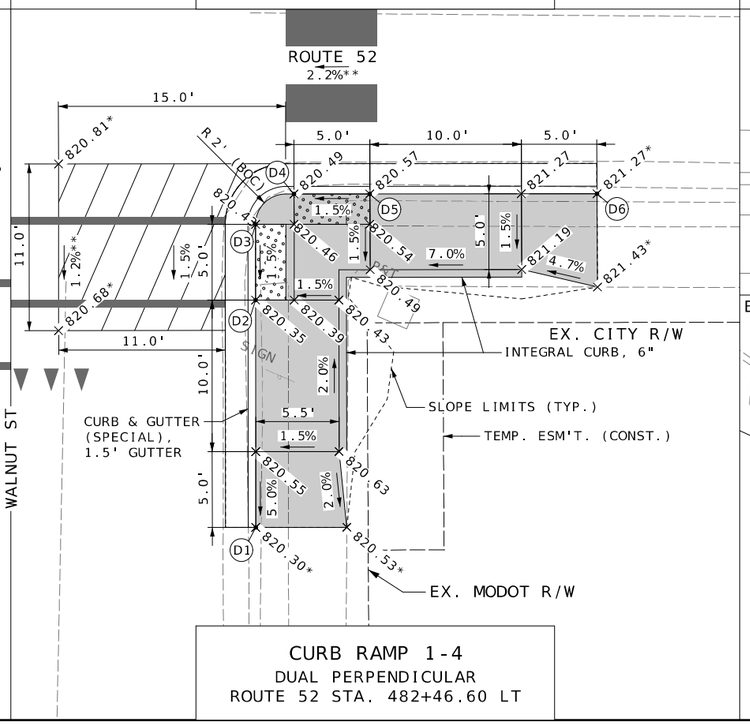
CURB RAMP 1-3
DUAL PERPENDICULAR
ROUTE 52 STA. 482+49.57 RT



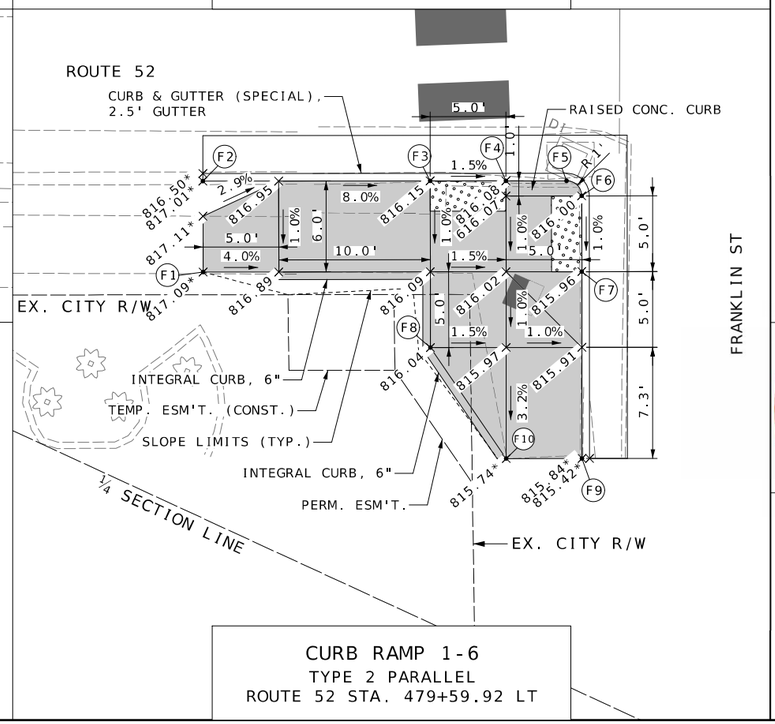
CURB RAMP 1-5
TYPE 2 PARALLEL
ROUTE 52 STA. 479+61.77 RT



CURB RAMP 1-2
CURB EXTENSION
ROUTE E STA. 184+85.90 RT



CURB RAMP 1-4
DUAL PERPENDICULAR
ROUTE 52 STA. 482+46.60 LT



CURB RAMP 1-6
TYPE 2 PARALLEL
ROUTE 52 STA. 479+59.92 LT

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/16/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 29
COUNTY VARIOUS
JOB NO. CD0121
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)

ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SPECIAL SHEET
CURB RAMP DETAILS
ST. ELIZABETH
ROUTE 52
SHEET 1 OF 11

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SEE SPECIAL SHEET 1 OF 11 FOR RAMP DETAILS.

CURB RAMP 1-1
CURB EXTENSION
ROUTE E STA. 184+84.85 LT

POINT	STATION	OFFSET
A1	184+69.15	28.78' LT
A2	184+75.41	24.46' LT
A3	184+78.94	23.00' LT
A4	184+79.85	23.00' LT
A5	184+84.85	23.00' LT
A6	184+88.87	23.00' LT
A7	184+96.66	29.18' LT
A8	184+96.87	30.98' LT
A9	184+96.63	34.18' LT
A10	184+84.86	29.12' LT
A11	184+84.88	34.12' LT
A12	184+79.86	29.09' LT
A13	184+79.88	34.09' LT
A14	184+84.88	35.36' LT
A15	184+95.39	37.47' LT
A16	184+84.92	50.01' LT

CURB RAMP 1-2
CURB EXTENSION
ROUTE E STA. 184+85.90 RT

POINT	STATION	OFFSET
B1	184+65.99	24.50' RT
B2	184+80.90	17.22' RT
B3	184+82.86	17.14' RT
B4	184+85.89	17.61' RT
B5	184+80.87	25.14' RT
B6	184+85.87	25.18' RT
B7	184+92.68	25.24' RT
B8	184+92.86	27.22' RT
B9	184+92.83	30.24' RT
B10	184+85.83	30.18' RT
B11	184+80.86	30.14' RT
B12	184+91.34	33.86' RT
B13	184+84.72	46.17' RT

CURB RAMP 1-3
DUAL PERPENDICULAR
ROUTE 52 STA. 482+49.57 RT

POINT	STATION	OFFSET
C1	482+57.32	39.94' RT
C2	482+49.66	39.92' RT
C3	482+57.64	34.93' RT
C4	482+57.61	29.93' RT
C5	482+49.61	29.92' RT
C6	482+57.58	25.92' RT
C7	482+55.59	23.93' RT
C8	482+54.57	23.93' RT
C9	482+49.57	23.92' RT
C10	482+32.57	23.84' RT

CURB RAMP 1-4
DUAL PERPENDICULAR
ROUTE 52 STA. 482+46.60 LT

POINT	STATION	OFFSET
D1	482+57.35	43.50' LT
D2	482+57.35	28.50' LT
D3	482+57.35	23.50' LT
D4	482+54.81	21.50' LT
D5	482+49.81	21.50' LT
D6	482+34.81	21.50' LT

CURB RAMP 1-5
TYPE 2 PARALLEL
ROUTE 52 STA. 479+61.77 RT

POINT	STATION	OFFSET
E1	479+71.77	23.00' RT
E2	479+61.77	23.00' RT
E3	479+56.77	23.00' RT
E4	479+50.77	23.00' RT
E5	479+49.77	24.00' RT
E6	479+49.77	29.00' RT
E7	479+51.77	37.00' RT
E8	479+55.77	37.00' RT
E9	479+56.77	29.00' RT

CURB RAMP 1-6
TYPE 2 PARALLEL
ROUTE 52 STA. 479+59.92 LT

POINT	STATION	OFFSET
F1	479+74.92	28.50' LT
F2	479+74.92	22.50' LT
F3	479+59.92	22.50' LT
F4	479+54.92	22.50' LT
F5	479+50.92	22.50' LT
F6	479+49.92	23.50' LT
F7	479+49.92	28.50' LT
F8	479+59.92	33.50' LT
F9	479+49.92	40.83' LT
F10	479+54.92	40.83' LT

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	30

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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MISSOURI CERT. OF AUTHORITY: 001528

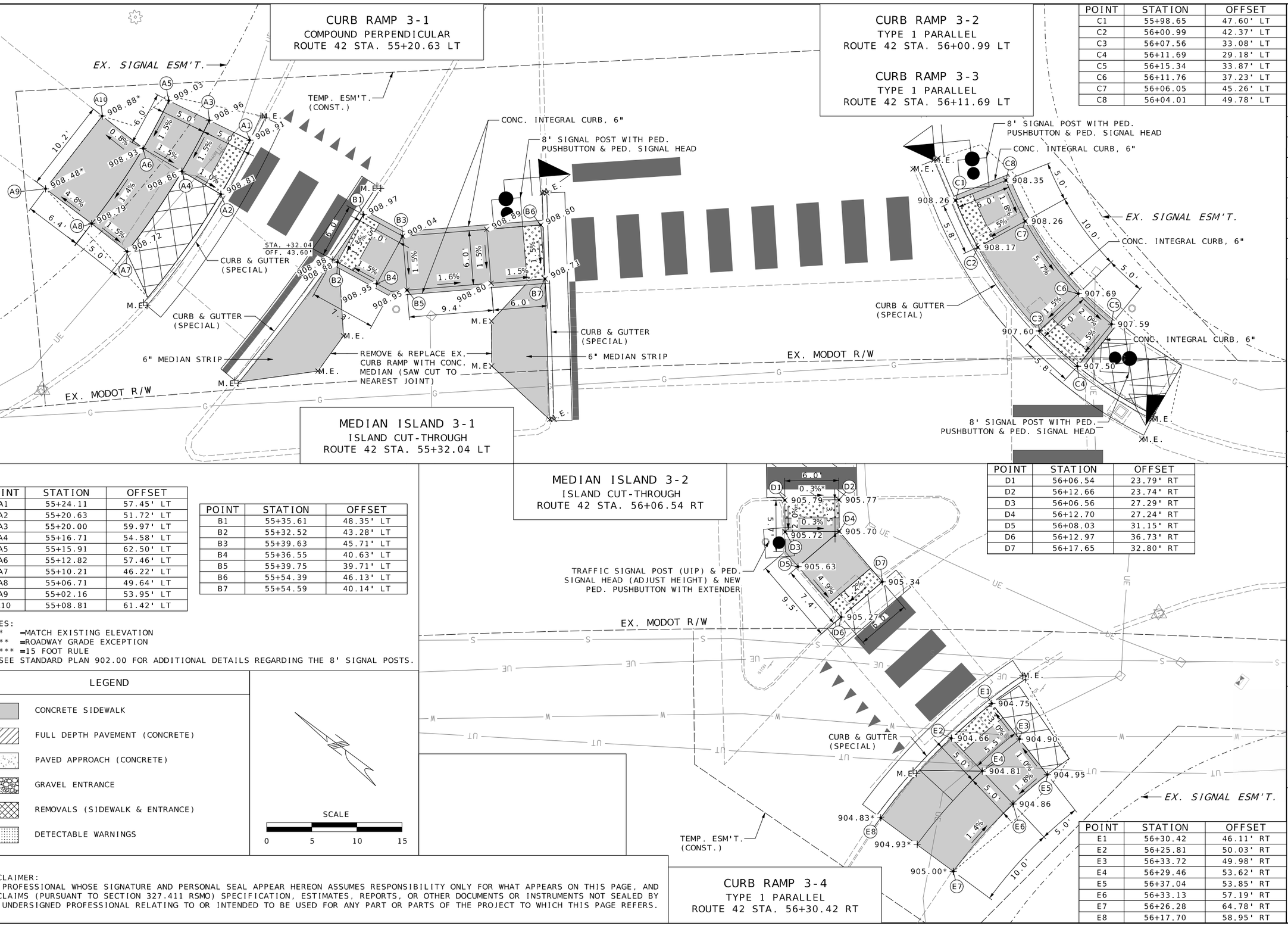
SPECIAL SHEET
CURB RAMP DETAILS
ST. ELIZABETH
ROUTE 52
SHEET 2 OF 11

CURB RAMP 3-1
COMPOUND PERPENDICULAR
ROUTE 42 STA. 55+20.63 LT

CURB RAMP 3-2
TYPE 1 PARALLEL
ROUTE 42 STA. 56+00.99 LT

CURB RAMP 3-3
TYPE 1 PARALLEL
ROUTE 42 STA. 56+11.69 LT

POINT	STATION	OFFSET
C1	55+98.65	47.60' LT
C2	56+00.99	42.37' LT
C3	56+07.56	33.08' LT
C4	56+11.69	29.18' LT
C5	56+15.34	33.87' LT
C6	56+11.76	37.23' LT
C7	56+06.05	45.26' LT
C8	56+04.01	49.78' LT



POINT	STATION	OFFSET
A1	55+24.11	57.45' LT
A2	55+20.63	51.72' LT
A3	55+20.00	59.97' LT
A4	55+16.71	54.58' LT
A5	55+15.91	62.50' LT
A6	55+12.82	57.46' LT
A7	55+10.21	46.22' LT
A8	55+06.71	49.64' LT
A9	55+02.16	53.95' LT
A10	55+08.81	61.42' LT

POINT	STATION	OFFSET
B1	55+35.61	48.35' LT
B2	55+32.52	43.28' LT
B3	55+39.63	45.71' LT
B4	55+36.55	40.63' LT
B5	55+39.75	39.71' LT
B6	55+54.39	46.13' LT
B7	55+54.59	40.14' LT

NOTES:
1. * =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

MEDIAN ISLAND 3-1
ISLAND CUT-THROUGH
ROUTE 42 STA. 55+32.04 LT

MEDIAN ISLAND 3-2
ISLAND CUT-THROUGH
ROUTE 42 STA. 56+06.54 RT

POINT	STATION	OFFSET
D1	56+06.54	23.79' RT
D2	56+12.66	23.74' RT
D3	56+06.56	27.29' RT
D4	56+12.70	27.24' RT
D5	56+08.03	31.15' RT
D6	56+12.97	36.73' RT
D7	56+17.65	32.80' RT

POINT	STATION	OFFSET
E1	56+30.42	46.11' RT
E2	56+25.81	50.03' RT
E3	56+33.72	49.98' RT
E4	56+29.46	53.62' RT
E5	56+37.04	53.85' RT
E6	56+33.13	57.19' RT
E7	56+26.28	64.78' RT
E8	56+17.70	58.95' RT

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 5 10 15

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	31

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
CURB RAMP DETAILS
OSAGE BEACH
ROUTE 42
SHEET 3 OF 11

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 5 10 15

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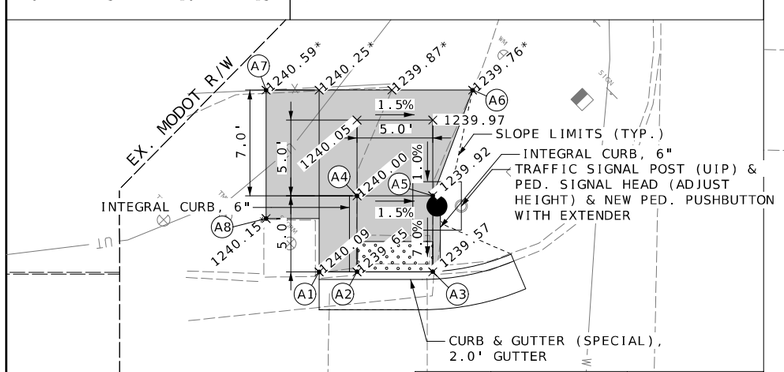
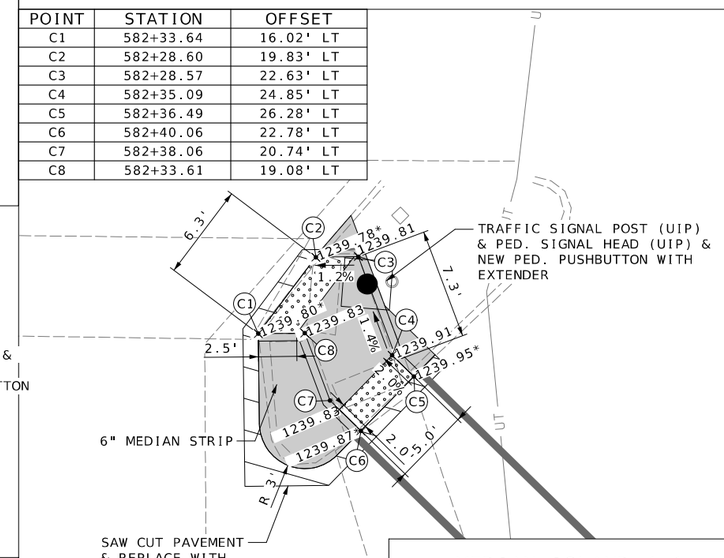
NOTES:
1. * =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

POINT	STATION	OFFSET
C1	582+33.64	16.02' LT
C2	582+28.60	19.83' LT
C3	582+28.57	22.63' LT
C4	582+35.09	24.85' LT
C5	582+36.49	26.28' LT
C6	582+40.06	22.78' LT
C7	582+38.06	20.74' LT
C8	582+33.61	19.08' LT

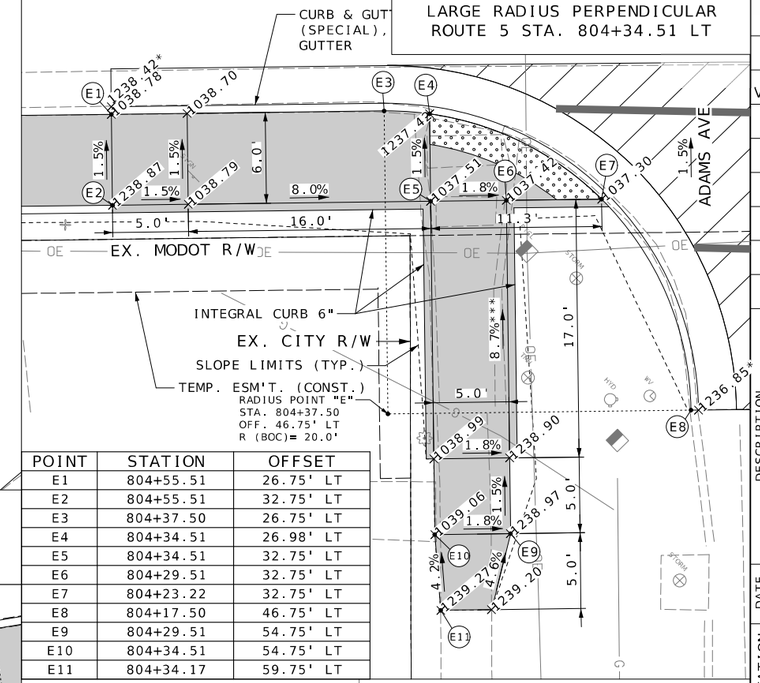


POINT	STATION	OFFSET
A1	581+76.34	46.82' RT
A2	581+76.33	44.32' RT
A3	581+76.33	39.32' RT
A4	581+71.31	44.32' RT
A5	581+71.31	39.32' RT
A6	581+64.34	36.69' RT
A7	581+64.34	50.32' RT
A8	581+72.81	50.32' RT

CURB RAMP 4-1
SMALL RADIUS PERPENDICULAR
ROUTE 64 STA. 581+76.34 RT

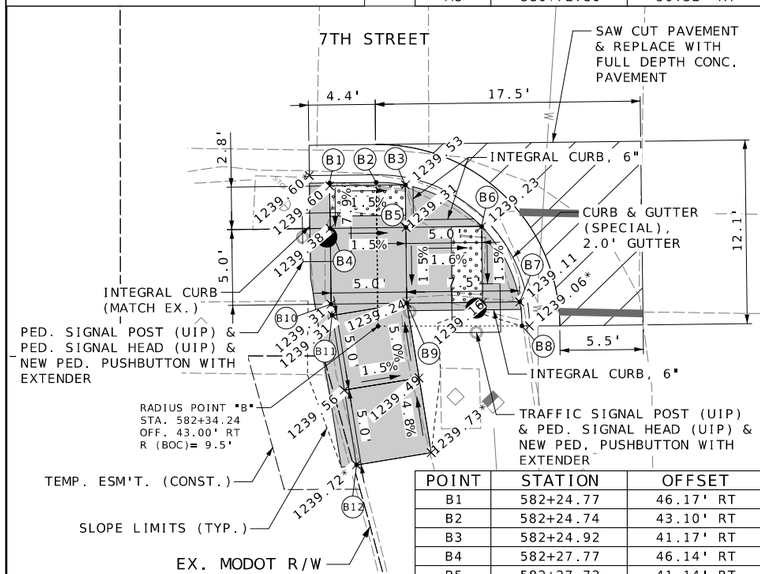


MEDIAN ISLAND 4-1
ISLAND CUT-THROUGH
ROUTE 64 STA. 582+28.60 LT



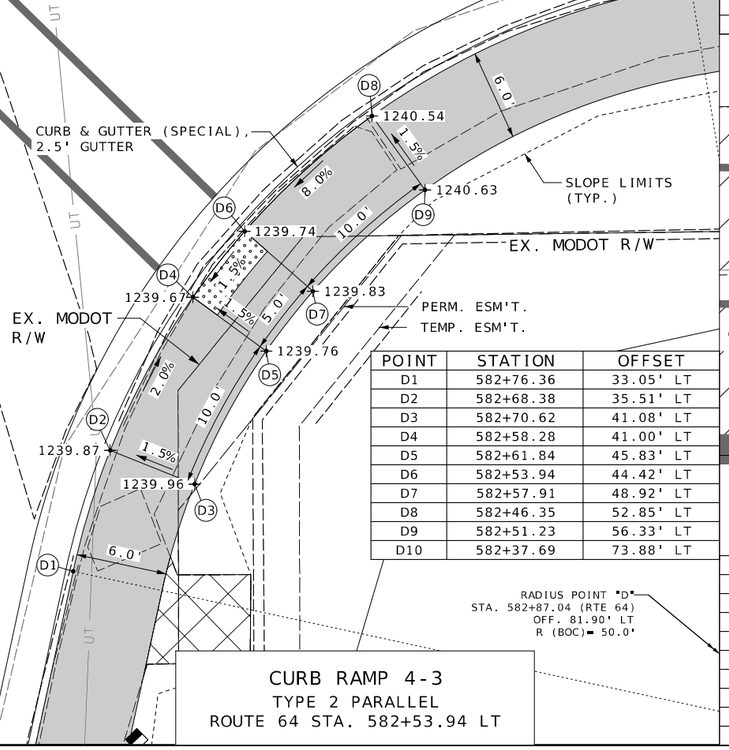
POINT	STATION	OFFSET
E1	804+55.51	26.75' LT
E2	804+55.51	32.75' LT
E3	804+37.50	26.75' LT
E4	804+34.51	26.98' LT
E5	804+34.51	32.75' LT
E6	804+29.51	32.75' LT
E7	804+23.22	32.75' LT
E8	804+17.50	46.75' LT
E9	804+29.51	54.75' LT
E10	804+34.51	54.75' LT
E11	804+34.17	59.75' LT

CURB RAMP 4-4
LARGE RADIUS PERPENDICULAR
ROUTE 5 STA. 804+34.51 LT



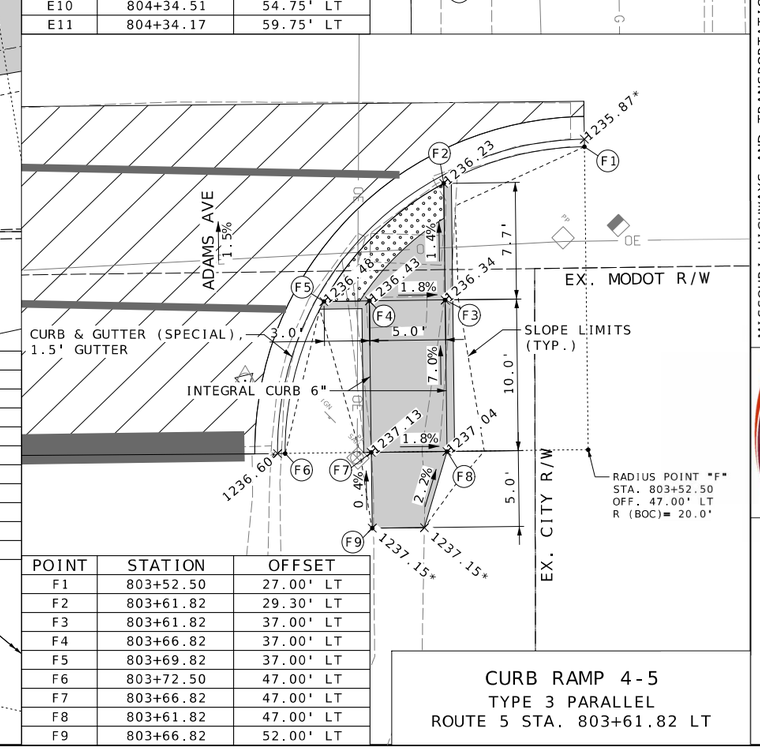
POINT	STATION	OFFSET
B1	582+24.77	46.17' RT
B2	582+24.74	43.10' RT
B3	582+24.92	41.17' RT
B4	582+27.77	46.14' RT
B5	582+27.72	41.14' RT
B6	582+27.67	36.14' RT
B7	582+32.64	33.63' RT
B8	582+34.24	33.50' RT
B9	582+32.72	41.09' RT
B10	582+32.77	46.09' RT
B11	582+33.51	46.02' RT
B12	582+43.39	44.44' RT

CURB RAMP 4-2
DUAL PERPENDICULAR
ROUTE 64 STA. 582+24.92 RT



POINT	STATION	OFFSET
D1	582+76.36	33.05' LT
D2	582+68.38	35.51' LT
D3	582+70.62	41.08' LT
D4	582+58.28	41.00' LT
D5	582+61.84	45.83' LT
D6	582+53.94	44.42' LT
D7	582+57.91	48.92' LT
D8	582+46.35	52.85' LT
D9	582+51.23	56.33' LT
D10	582+37.69	73.88' LT

CURB RAMP 4-3
TYPE 2 PARALLEL
ROUTE 64 STA. 582+53.94 LT



POINT	STATION	OFFSET
F1	803+52.50	27.00' LT
F2	803+61.82	29.30' LT
F3	803+61.82	37.00' LT
F4	803+66.82	37.00' LT
F5	803+69.82	37.00' LT
F6	803+72.50	47.00' LT
F7	803+66.82	47.00' LT
F8	803+61.82	47.00' LT
F9	803+66.82	52.00' LT

CURB RAMP 4-5
TYPE 3 PARALLEL
ROUTE 5 STA. 803+61.82 LT

NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	32

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

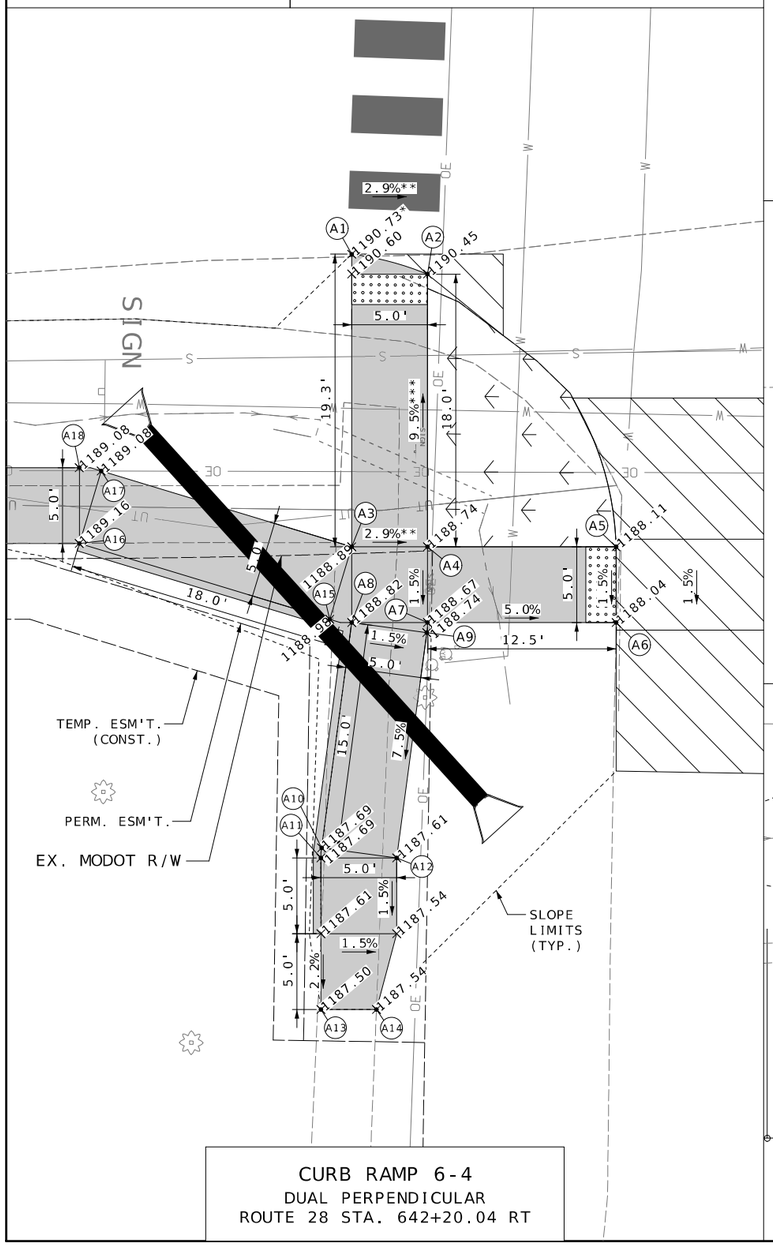
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD. SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
CURB RAMP DETAILS
LEBANON
ROUTES 64 & 5
SHEET 4 OF 11

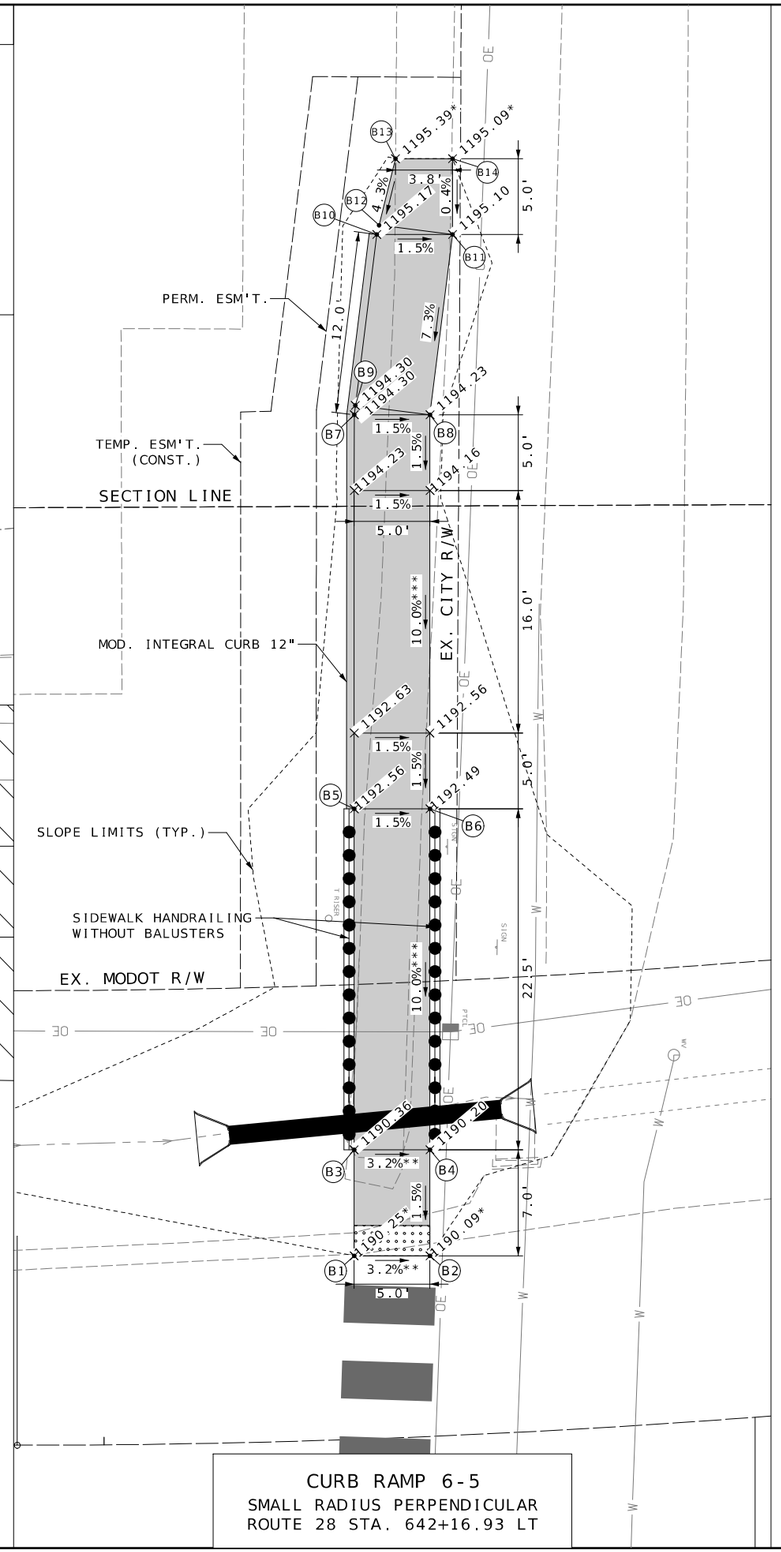
LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

SCALE
0 5 10 15



CURB RAMP 6-4
DUAL PERPENDICULAR
ROUTE 28 STA. 642+20.04 RT



CURB RAMP 6-5
SMALL RADIUS PERPENDICULAR
ROUTE 28 STA. 642+16.93 LT

POINT	STATION	OFFSET
A1	642+15.17	10.25' RT
A2	642+20.04	11.74' RT
A3	642+14.57	29.55' RT
A4	642+19.35	29.73' RT
A5	642+31.22	30.33' RT
A6	642+30.96	35.32' RT
A7	642+19.16	34.73' RT
A8	642+14.42	34.55' RT
A9	642+19.09	35.38' RT
A10	642+12.15	49.35' RT
A11	642+12.09	50.01' RT
A12	642+16.72	50.17' RT
A13	642+11.83	60.01' RT
A14	642+15.18	60.12' RT
A15	642+13.05	34.29' RT
A16	641+97.38	29.01' RT
A17	641+98.80	24.23' RT
A18	641+97.40	24.01' RT

POINT	STATION	OFFSET
B1	642+16.93	12.11' LT
B2	642+22.02	11.91' LT
B3	642+17.19	19.10' LT
B4	642+22.33	18.90' LT
B5	642+18.05	41.59' LT
B6	642+23.39	41.38' LT
B7	642+19.12	67.57' LT
B8	642+24.70	67.35' LT
B9	642+19.23	68.18' LT
B10	642+21.34	79.41' LT
B11	642+27.04	79.17' LT
B12	642+21.54	80.01' LT
B13	642+23.01	84.35' LT
B14	642+27.34	84.17' LT

NOTES:
1. * =MATCH EXISTING ELEVATION
   ** =ROADWAY GRADE EXCEPTION
   *** =15 FOOT RULE
2. SEE STANDARD PLAN 902.00 FOR ADDITIONAL DETAILS REGARDING THE 8' SIGNAL POSTS.

DISCLAIMER:
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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/16/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	33

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

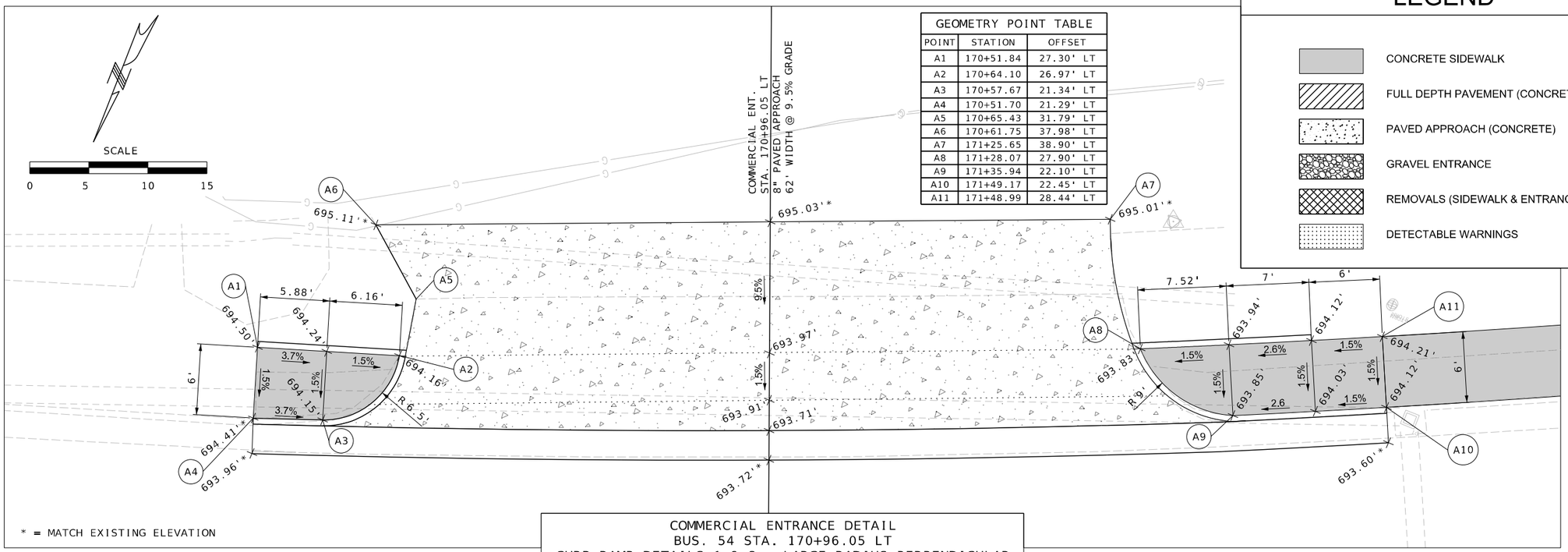
DESCRIPTION	DATE

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

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

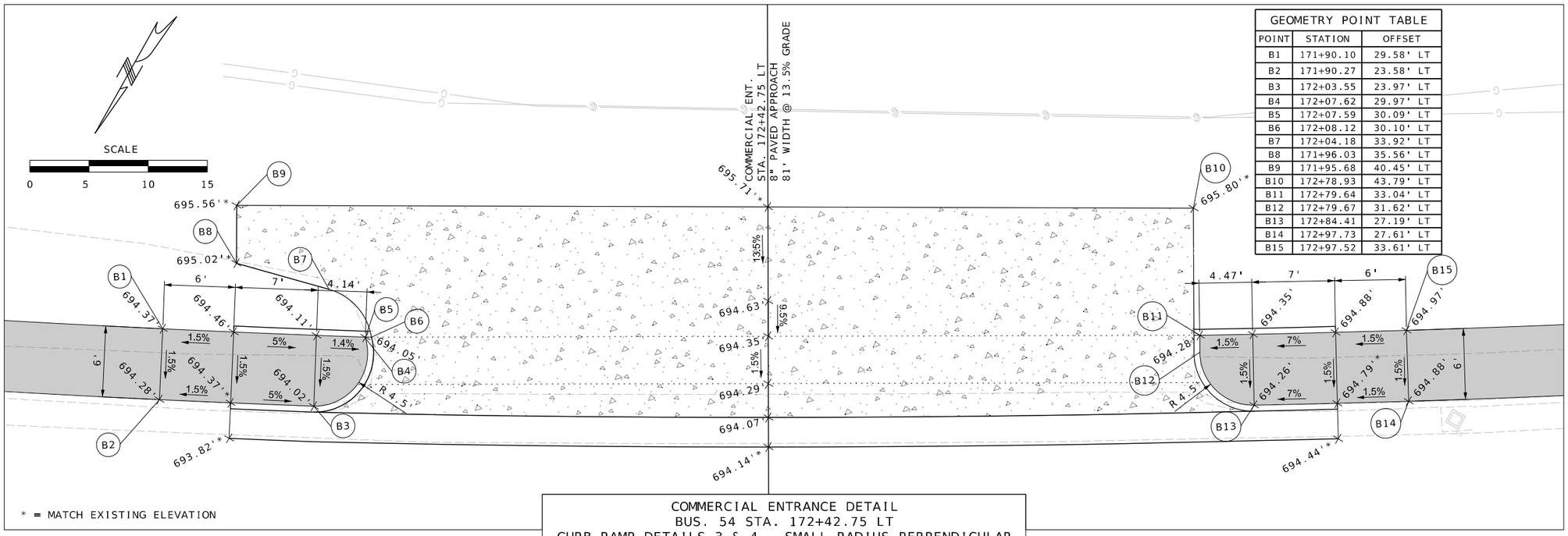
TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SPECIAL SHEET
CURB RAMP DETAILS
DIXON
ROUTE 28
SHEET 5 OF 11



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
A1	170+51.84	27.30' LT
A2	170+64.10	26.97' LT
A3	170+57.67	21.34' LT
A4	170+51.70	21.29' LT
A5	170+65.43	31.79' LT
A6	170+61.75	37.98' LT
A7	171+25.65	38.90' LT
A8	171+28.07	27.90' LT
A9	171+35.94	22.10' LT
A10	171+49.17	22.45' LT
A11	171+48.99	28.44' LT

COMMERCIAL ENTRANCE DETAIL
BUS. 54 STA. 170+96.05 LT
CURB RAMP DETAILS 1 & 2 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 170+60.00, BUS. 54 STA. 171+30.00



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
B1	171+90.10	29.58' LT
B2	171+90.27	23.58' LT
B3	172+03.55	23.97' LT
B4	172+07.62	29.97' LT
B5	172+07.59	30.09' LT
B6	172+08.12	30.10' LT
B7	172+04.18	33.92' LT
B8	171+96.03	35.56' LT
B9	171+95.68	40.45' LT
B10	172+78.93	43.79' LT
B11	172+79.64	33.04' LT
B12	172+79.67	31.62' LT
B13	172+84.41	27.19' LT
B14	172+97.73	27.61' LT
B15	172+97.52	33.61' LT

COMMERCIAL ENTRANCE DETAIL
BUS. 54 STA. 172+42.75 LT
CURB RAMP DETAILS 3 & 4 - SMALL RADIUS PERPENDICULAR
BUS. 54 STA. 172+06.00, BUS. 54 STA. 172+82.00

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 34
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

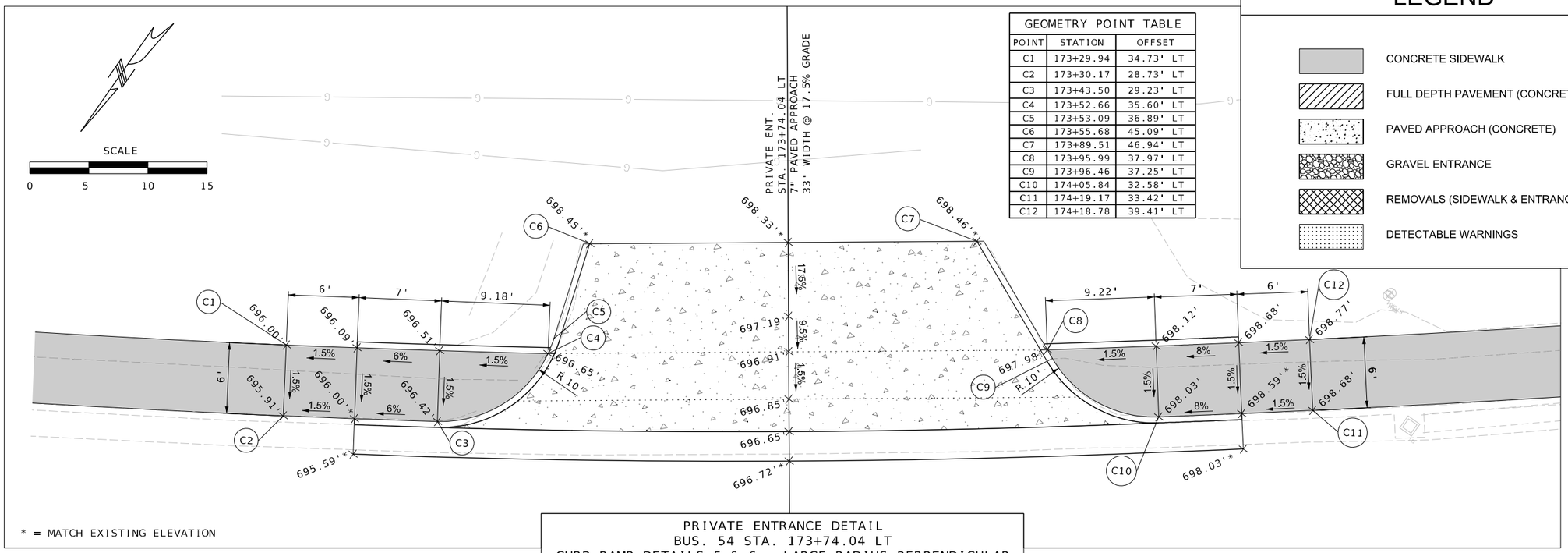
DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.3570
CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 6 OF 11



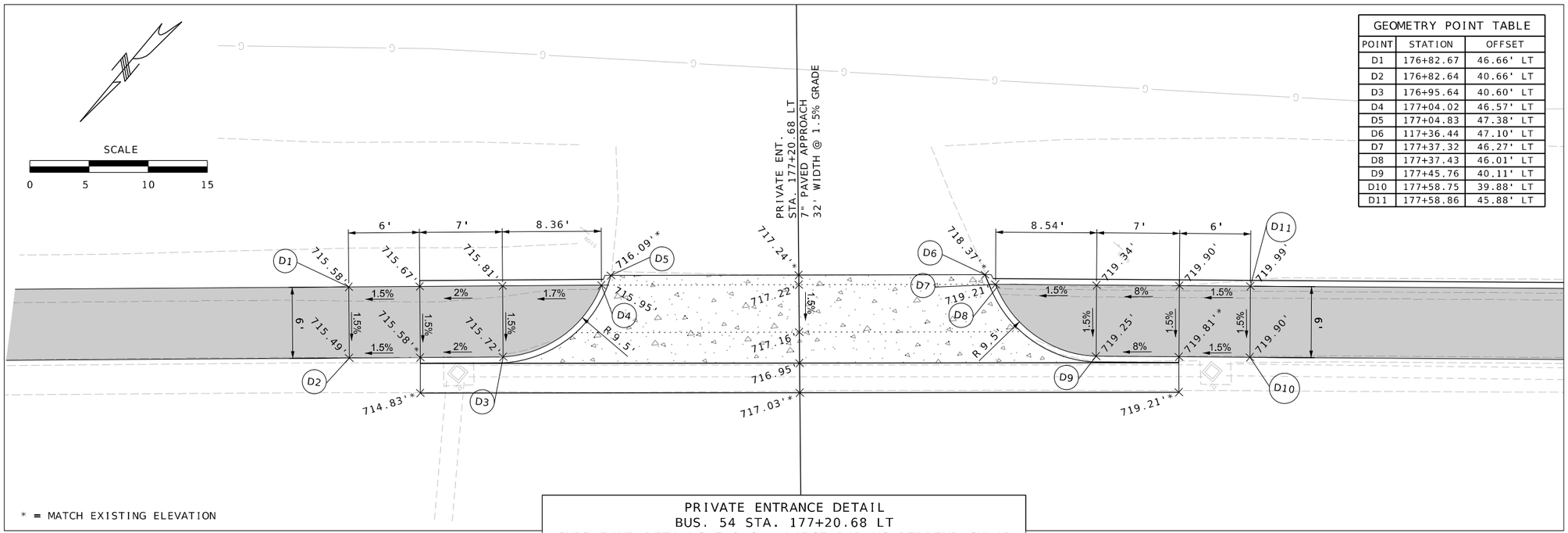
GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
C1	173+29.94	34.73' LT
C2	173+30.17	28.73' LT
C3	173+43.50	29.23' LT
C4	173+52.66	35.60' LT
C5	173+53.09	36.89' LT
C6	173+55.68	45.09' LT
C7	173+89.51	46.94' LT
C8	173+95.99	37.97' LT
C9	173+96.46	37.25' LT
C10	174+05.84	32.58' LT
C11	174+19.17	33.42' LT
C12	174+18.78	39.41' LT

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

* = MATCH EXISTING ELEVATION

PRIVATE ENTRANCE DETAIL
BUS. 54 STA. 173+74.04 LT
CURB RAMP DETAILS 5 & 6 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 173+50.00, BUS. 54 STA. 174+00.00



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
D1	176+82.67	46.66' LT
D2	176+82.64	40.66' LT
D3	176+95.64	40.60' LT
D4	177+04.02	46.57' LT
D5	177+04.83	47.38' LT
D6	117+36.44	47.10' LT
D7	177+37.32	46.27' LT
D8	177+37.43	46.01' LT
D9	177+45.76	40.11' LT
D10	177+58.75	39.88' LT
D11	177+58.86	45.88' LT

* = MATCH EXISTING ELEVATION

PRIVATE ENTRANCE DETAIL
BUS. 54 STA. 177+20.68 LT
CURB RAMP DETAILS 7 & 8 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 177+00.00, BUS. 54 STA. 177+40.00

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 35
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

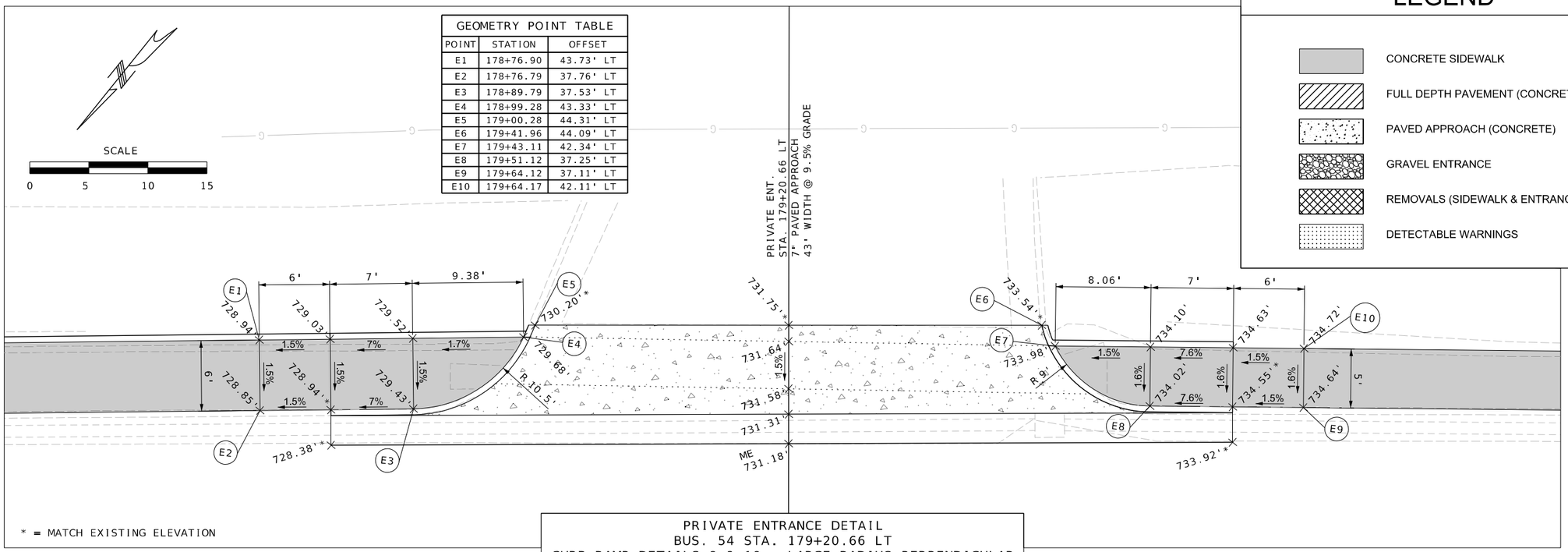
DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.3570
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006864

SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 7 OF 11

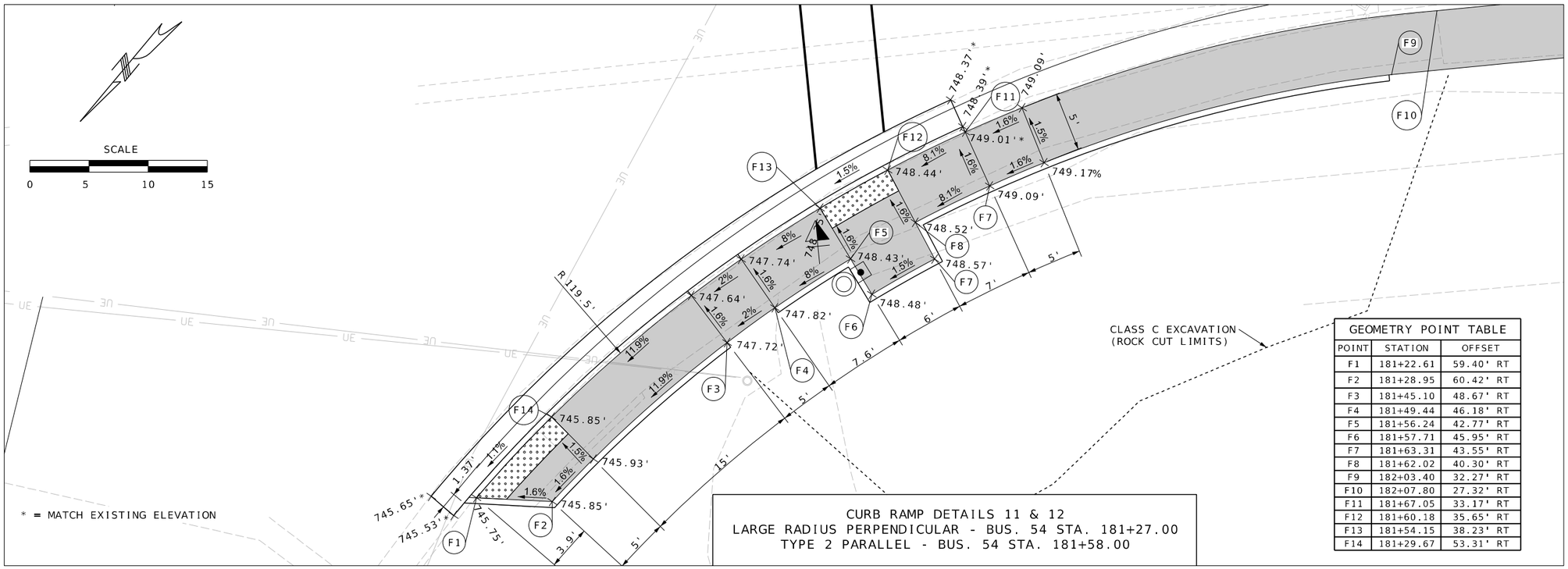


GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
E1	178+76.90	43.73' LT
E2	178+76.79	37.76' LT
E3	178+89.79	37.53' LT
E4	178+99.28	43.33' LT
E5	179+00.28	44.31' LT
E6	179+41.96	44.09' LT
E7	179+43.11	42.34' LT
E8	179+51.12	37.25' LT
E9	179+64.12	37.11' LT
E10	179+64.17	42.11' LT

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS

PRIVATE ENTRANCE DETAIL
BUS. 54 STA. 179+20.66 LT
CURB RAMP DETAILS 9 & 10 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 178+95.00, BUS. 54 STA. 179+45.00



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
F1	181+22.61	59.40' RT
F2	181+28.95	60.42' RT
F3	181+45.10	48.67' RT
F4	181+49.44	46.18' RT
F5	181+56.24	42.77' RT
F6	181+57.71	45.95' RT
F7	181+63.31	43.55' RT
F8	181+62.02	40.30' RT
F9	182+03.40	32.27' RT
F10	182+07.80	27.32' RT
F11	181+67.05	33.17' RT
F12	181+60.18	35.65' RT
F13	181+54.15	38.23' RT
F14	181+29.67	53.31' RT

CURB RAMP DETAILS 11 & 12
LARGE RADIUS PERPENDICULAR - BUS. 54 STA. 181+27.00
TYPE 2 PARALLEL - BUS. 54 STA. 181+58.00

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 36
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

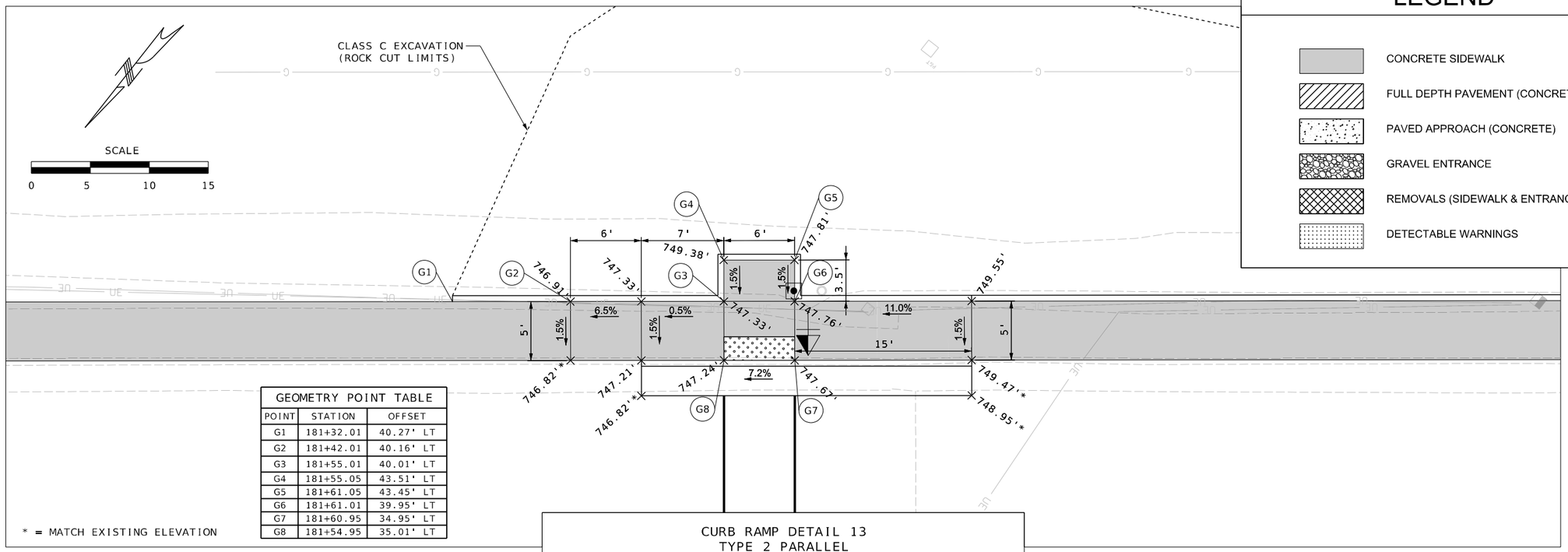
DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI ENGINEERING, INC.
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006864

SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 8 OF 11



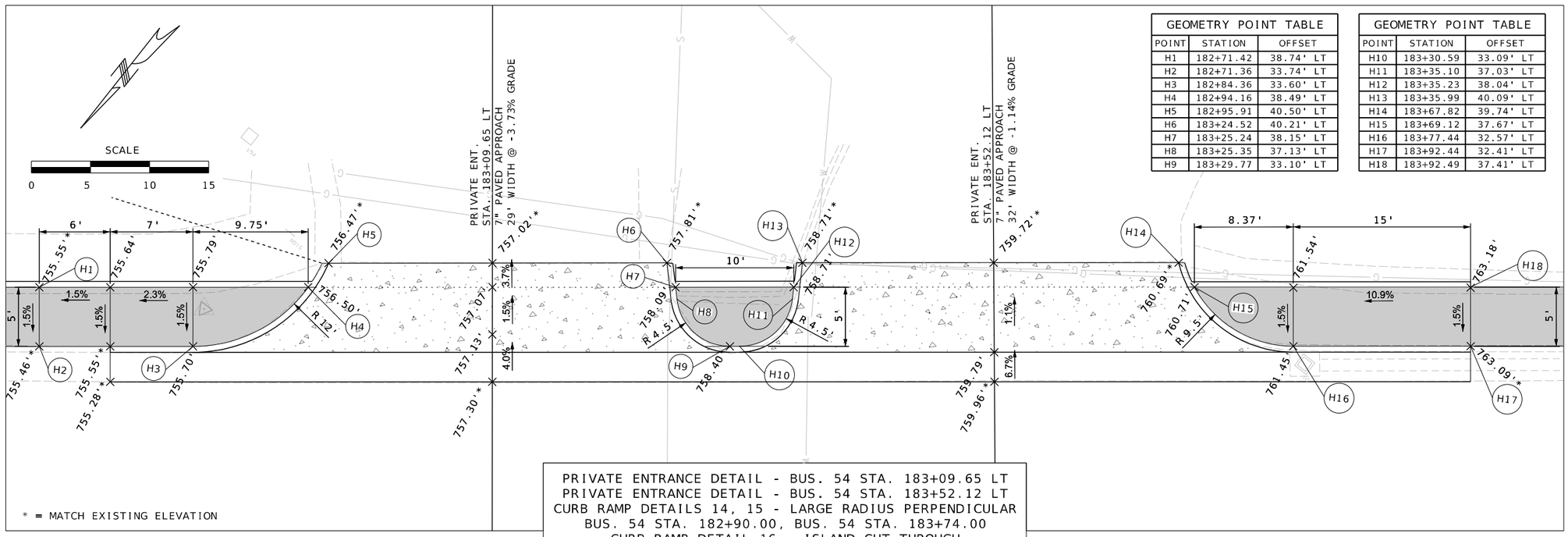
GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
G1	181+32.01	40.27' LT
G2	181+42.01	40.16' LT
G3	181+55.01	40.01' LT
G4	181+55.05	43.51' LT
G5	181+61.05	43.45' LT
G6	181+61.01	39.95' LT
G7	181+60.95	34.95' LT
G8	181+54.95	35.01' LT

* = MATCH EXISTING ELEVATION

CURB RAMP DETAIL 13
TYPE 2 PARALLEL
BUS. 54 STA. 181+58.00

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
H1	182+71.42	38.74' LT
H2	182+71.36	33.74' LT
H3	182+84.36	33.60' LT
H4	182+94.16	38.49' LT
H5	182+95.91	40.50' LT
H6	183+24.52	40.21' LT
H7	183+25.24	38.15' LT
H8	183+25.35	37.13' LT
H9	183+29.77	33.10' LT

GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
H10	183+30.59	33.09' LT
H11	183+35.10	37.03' LT
H12	183+35.23	38.04' LT
H13	183+35.99	40.09' LT
H14	183+67.82	39.74' LT
H15	183+69.12	37.67' LT
H16	183+77.44	32.57' LT
H17	183+92.44	32.41' LT
H18	183+92.49	37.41' LT

* = MATCH EXISTING ELEVATION

PRIVATE ENTRANCE DETAIL - BUS. 54 STA. 183+09.65 LT
PRIVATE ENTRANCE DETAIL - BUS. 54 STA. 183+52.12 LT
CURB RAMP DETAILS 14, 15 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 182+90.00, BUS. 54 STA. 183+74.00
CURB RAMP DETAIL 16 - ISLAND CUT THROUGH
BUS. 54 STA. 183+30.00

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	37

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

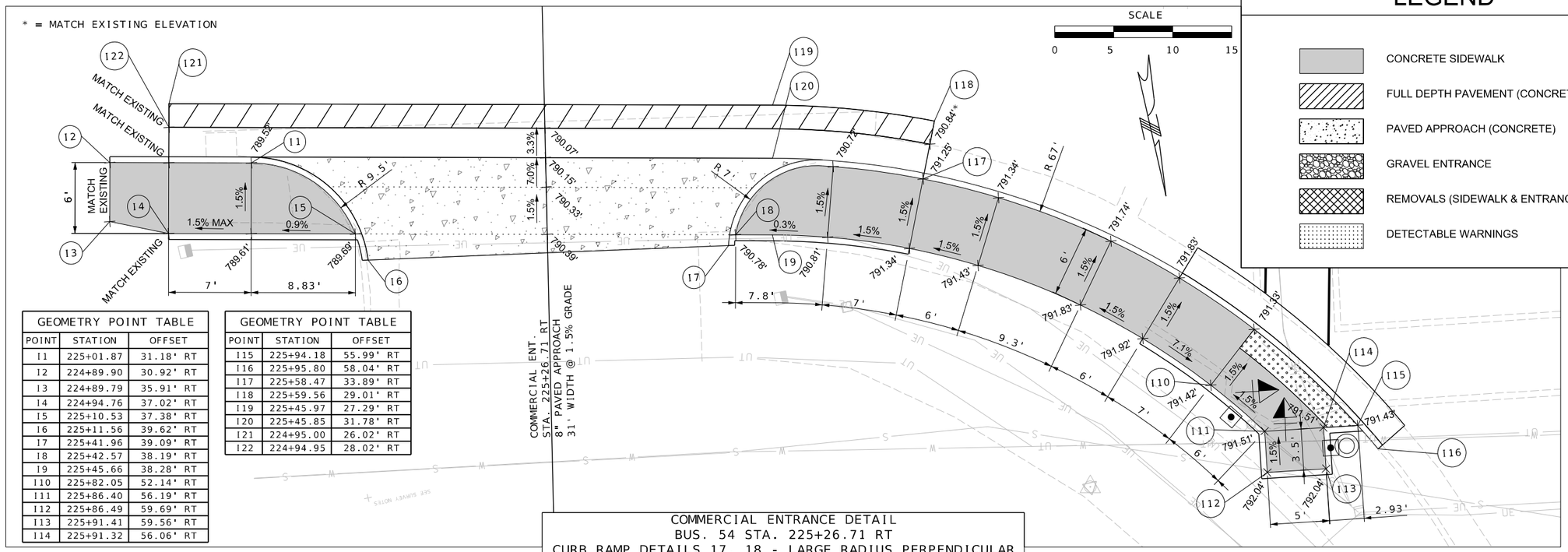
MoDOT

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

CDI
CIVIL DESIGN, INC.
www.cdi.com

Missouri State Certificate of Authority #2002006864

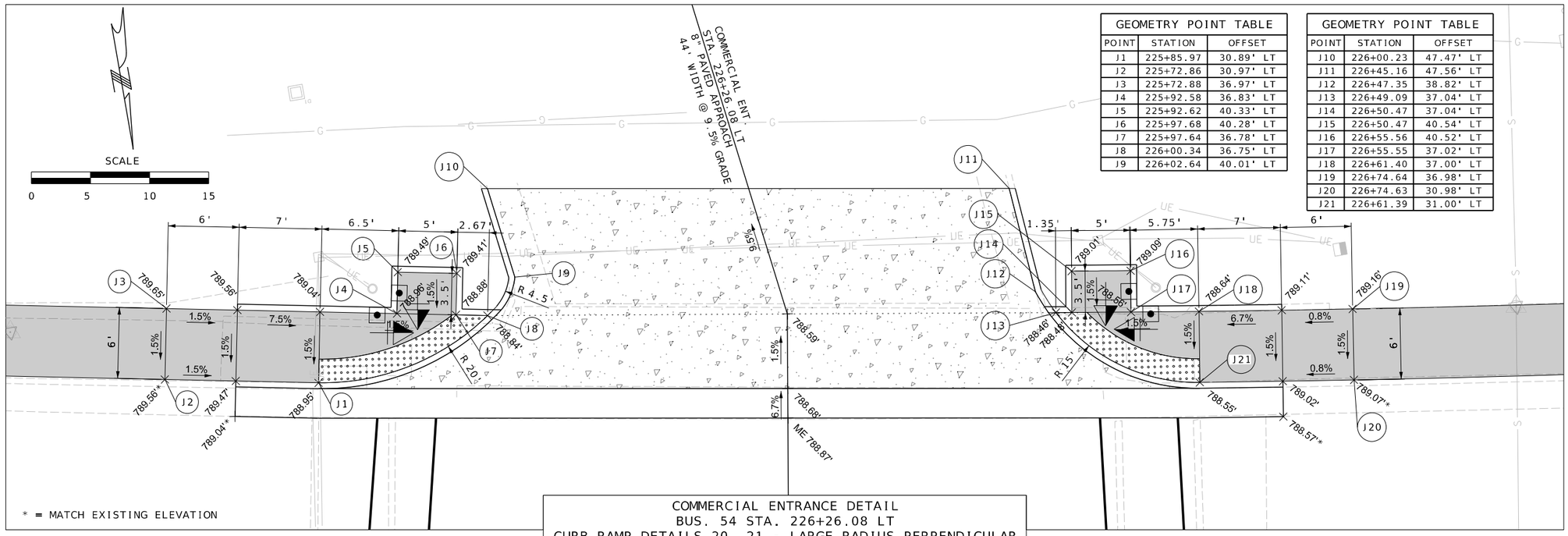
SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 9 OF 11



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
I1	225+01.87	31.18' RT
I2	224+89.90	30.92' RT
I3	224+89.79	35.91' RT
I4	224+94.76	37.02' RT
I5	225+10.53	37.38' RT
I6	225+11.56	39.62' RT
I7	225+41.96	39.09' RT
I8	225+42.57	38.19' RT
I9	225+45.66	38.28' RT
I10	225+82.05	52.14' RT
I11	225+86.40	56.19' RT
I12	225+86.49	59.69' RT
I13	225+91.41	59.56' RT
I14	225+91.32	56.06' RT

GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
I15	225+94.18	55.99' RT
I16	225+95.80	58.04' RT
I17	225+58.47	33.89' RT
I18	225+59.56	29.01' RT
I19	225+45.97	27.29' RT
I20	225+45.85	31.78' RT
I21	224+95.00	26.02' RT
I22	224+94.95	28.02' RT

COMMERCIAL ENTRANCE DETAIL
BUS. 54 STA. 225+26.71 RT
CURB RAMP DETAILS 17, 18 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 225+05.00, BUS. 54 STA. 225+45.00
RAMP DETAIL 19 - BLENDED TRANSITION BUS. 54
STA. 225+90.00



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
J1	225+85.97	30.89' LT
J2	225+72.86	30.97' LT
J3	225+72.88	36.97' LT
J4	225+92.58	36.83' LT
J5	225+92.62	40.33' LT
J6	225+97.68	40.28' LT
J7	225+97.64	36.78' LT
J8	226+00.34	36.75' LT
J9	226+02.64	40.01' LT

GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
J10	226+00.23	47.47' LT
J11	226+45.16	47.56' LT
J12	226+47.35	38.82' LT
J13	226+49.09	37.04' LT
J14	226+50.47	37.04' LT
J15	226+50.47	40.54' LT
J16	226+55.56	40.52' LT
J17	226+55.55	37.02' LT
J18	226+61.40	37.00' LT
J19	226+74.64	36.98' LT
J20	226+74.63	30.98' LT
J21	226+61.39	31.00' LT

COMMERCIAL ENTRANCE DETAIL
BUS. 54 STA. 226+26.08 LT
CURB RAMP DETAILS 20, 21 - LARGE RADIUS PERPENDICULAR
BUS. 54 STA. 225+90.00, BUS. 54 STA. 226+55.00

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024
ROUTE VARIOUS | STATE MO
DISTRICT CD | SHEET NO. 38
COUNTY VARIOUS
JOB NO. CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

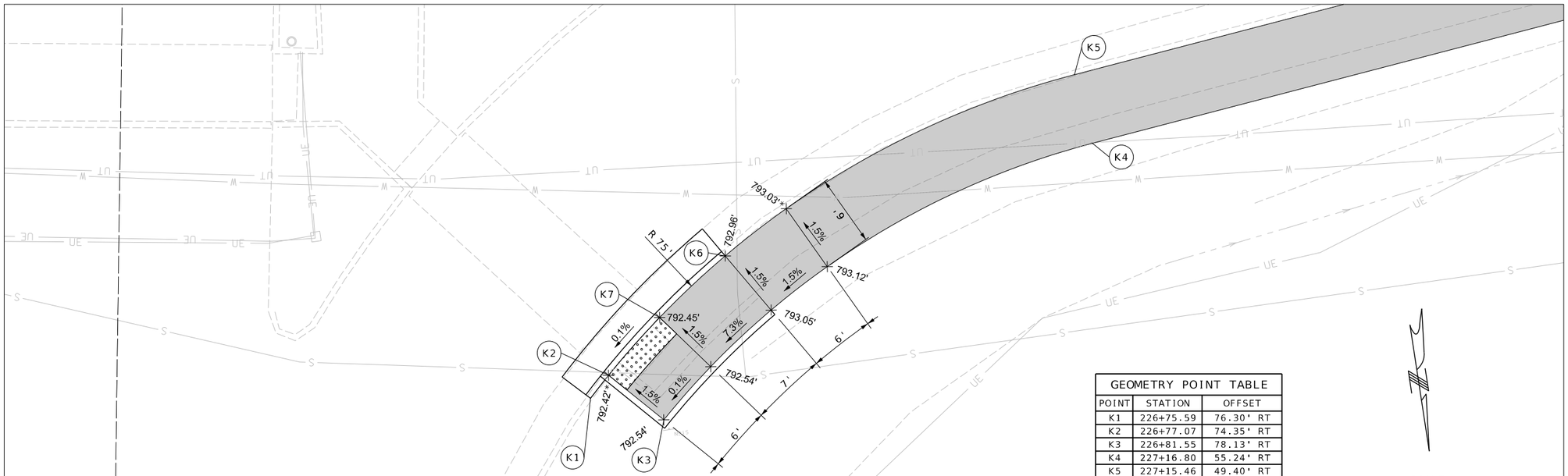
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006864

SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 10 OF 11

LEGEND

- CONCRETE SIDEWALK
- FULL DEPTH PAVEMENT (CONCRETE)
- PAVED APPROACH (CONCRETE)
- GRAVEL ENTRANCE
- REMOVALS (SIDEWALK & ENTRANCE)
- DETECTABLE WARNINGS



GEOMETRY POINT TABLE		
POINT	STATION	OFFSET
K1	226+75.59	76.30' RT
K2	226+77.07	74.35' RT
K3	226+81.55	78.13' RT
K4	227+16.80	55.24' RT
K5	227+15.46	49.40' RT
K6	226+86.64	64.30' RT
K7	226+81.24	69.47' RT

* = MATCH EXISTING ELEVATION

CURB RAMP DETAIL 22
TYPE 1 PARALLEL
BUS. 54 STA. 226+80.00

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 39
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

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

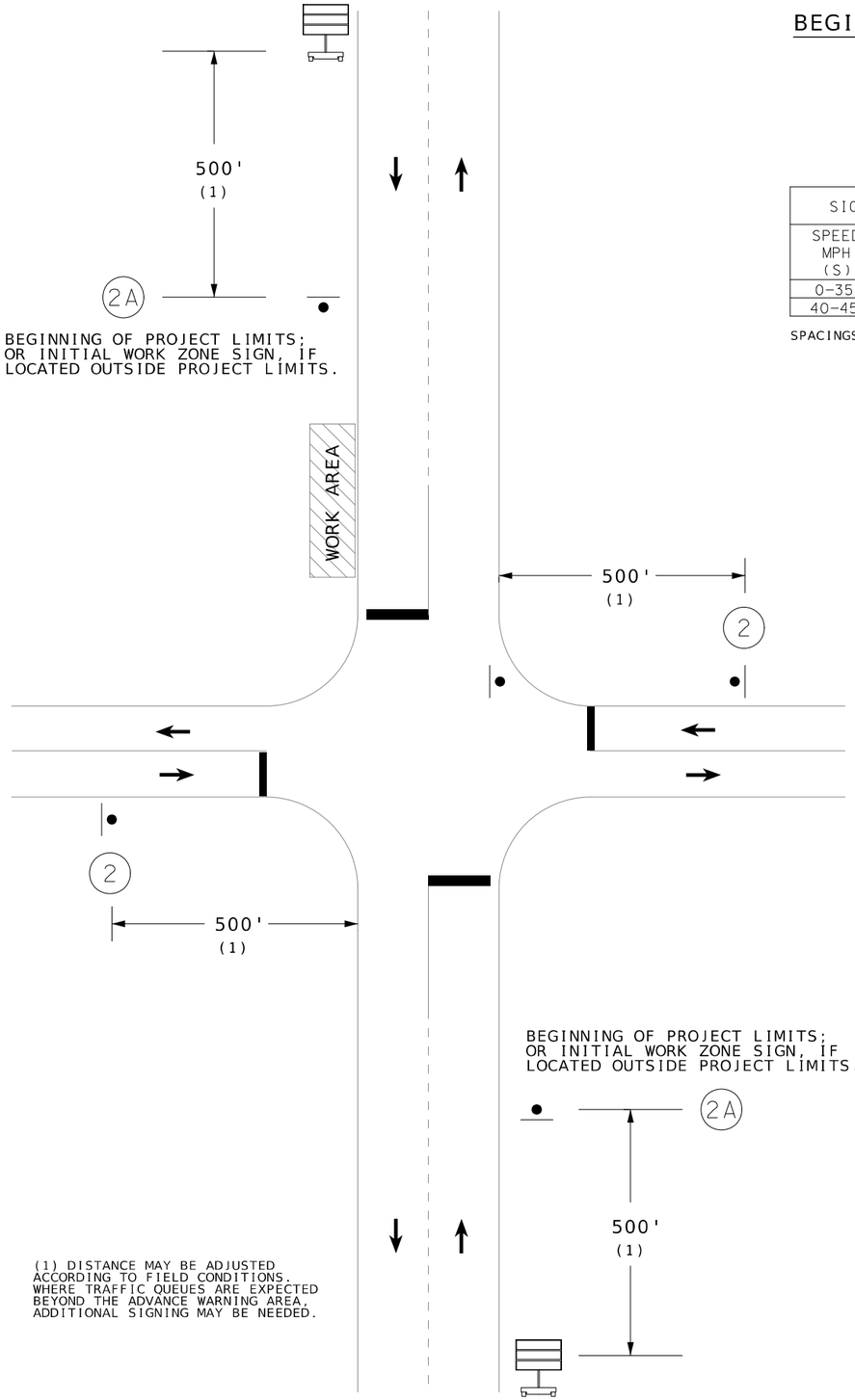
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SPECIAL SHEET
LOCATION 7 - OSAGE BEACH
BUS. 54
SHEET 11 OF 11

BEGIN/END OF PROJECT SIGNING

DUAL - LANE

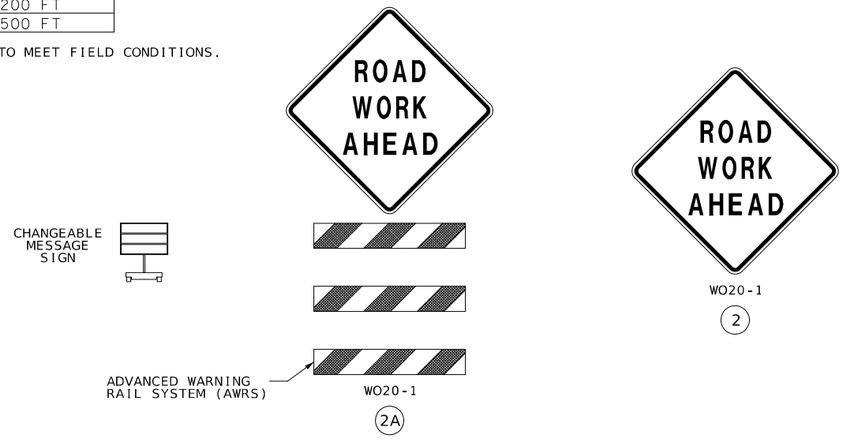


(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC QUEUES ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

DRAWING NOT TO SCALE.

SIGN SPACING FOR ADVANCE SIGN SERIES		
SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.



SIGN WITH AWRS MUST BE GROUND OR SKID MOUNTED.

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GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COVERED COMPLETELY 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, CONSTRUCTION SIGNS OR FLASHING ARROW PANELS.

7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPRARY 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 RMOVED FROM TEH 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 ACHEIVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF HTE 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 CONTRACT 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 TRAFFIC.

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 7FT.

14. SPACING AND DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROAXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008609
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	40

COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
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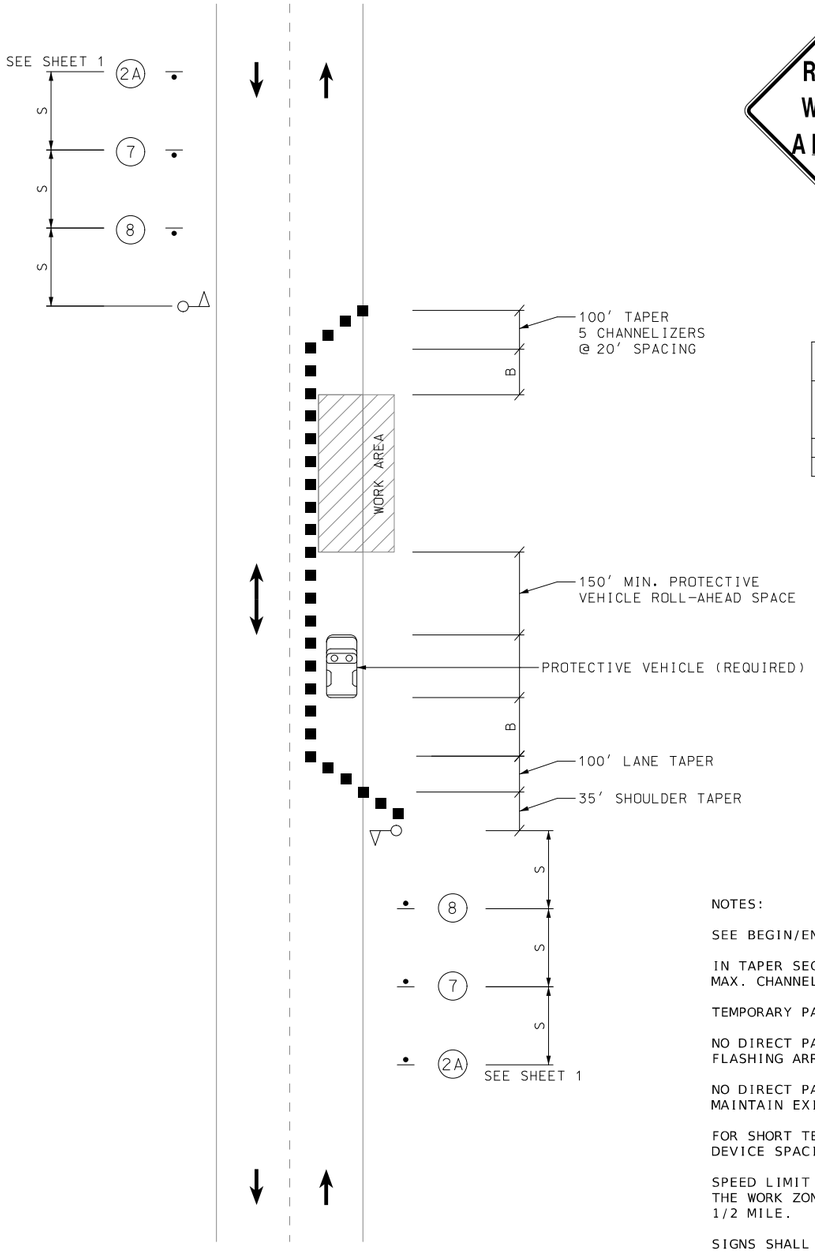
MISSOURI CERT. OF AUTHORITY: 001528

TRAFFIC CONTROL
ADA IMPROVEMENTS
SHEET 1 OF 5



LANE CLOSURE ON TWO-LANE HIGHWAYS
(DAY OR NIGHT)

DRAWING NOT TO SCALE.
FOLLOW DIMENSIONS.

W020-1

2

W020-4

7

W020-7a

8

FLAGS ARE SUBSIDIARY TO THE SIGN.
NO DIRECT PAY.

SPACING		
SPEED MPH	SIGN SPACING (S)	BUFFER LENGTH (B)
0-35	200 FT	250 FT
40-45	350 FT	360 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, CONSTR. SIGNS OR FLASHING ARROW PANEL.

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YEILD 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.

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 THE ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWINGS 616.10 FOR ADDITIONAL DETAILS.

THE MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS, AS APPROVED BY THE ENGINEER.

TRAFFIC CONTROL LEGEND

FLAGGER

CHANNELIZERS

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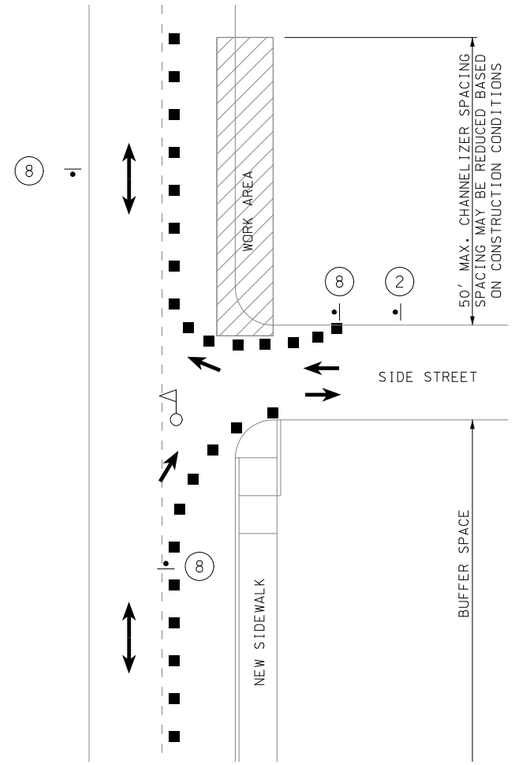
SIDE STREET FLAGGING DETAIL

DRAWING NOT TO SCALE



STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

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

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 41
COUNTY: VARIOUS
JOB NO.: CD0121
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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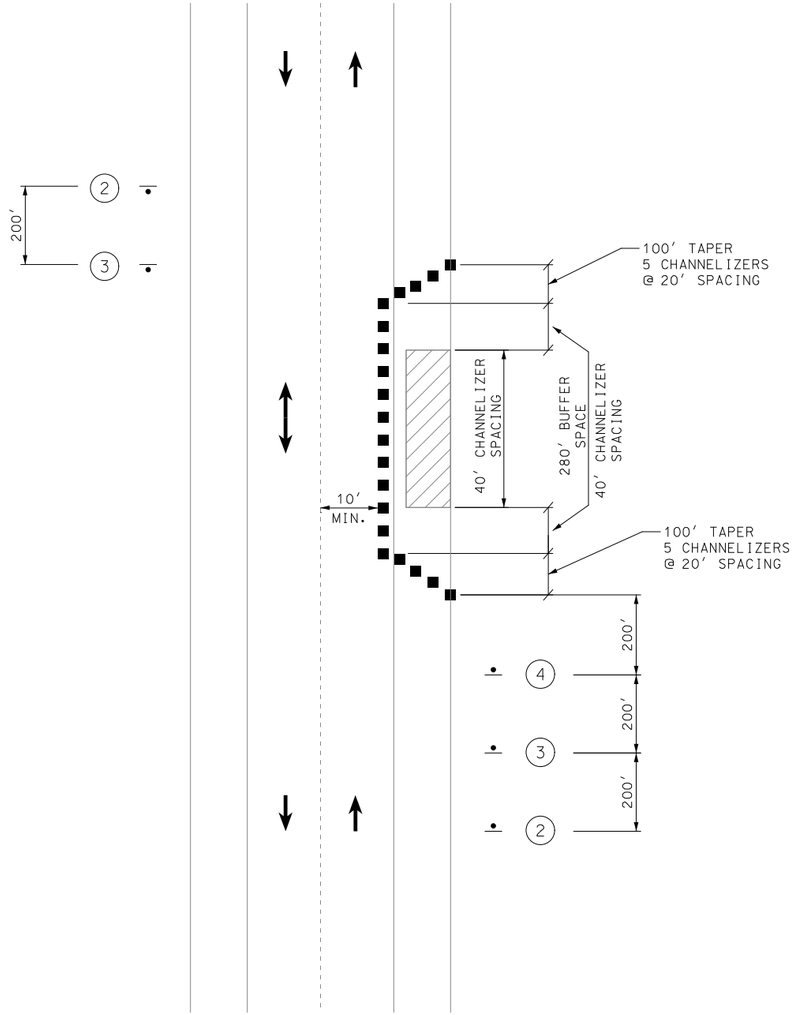
TRAFFIC CONTROL
ADA IMPROVEMENTS
SHEET 2 OF 5



STATIONARY OPERATION SHOULDER WORK WITH MINOR ENCHROACHMENT ON TWO-LANE HIGHWAYS (SHORT DURATION)

DRAWING NOT TO SCALE.
FOLLOW DIMENSIONS.

SIGNING LEGEND

W020-1
2

W021-5
3

W05-1
4

NOTES:
CHANNELIZER SPACING WILL BE 40′ INTERVALS THROUGH THE WORK AREA AND 20′ INTERVALS THROUGH THE TAPERS.

ACTIVE LANES SHALL BE A MINIMUM OF 10′ WIDE.

USE FLAGGING OPERATION IF ACTIVE LANE WIDTH IS LESS THAN 10′ WIDE.

SIGN SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

ANY EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL WILL BE COVERED OR REMOVED.

SIGN AND DEVICE LOCATION WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

BUFFER SPACE IS OPTIONAL AND MAY BE OMITTED.

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	42

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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MISSOURI CERT. OF AUTHORITY: 001528

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

TRAFFIC CONTROL
ADA IMPROVEMENTS

NOTES:

1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK AND CURB RAMP AREAS.

2. SEE JSPs FOR PEDESTRIAN TRAFFIC CONTROL DEVICES.

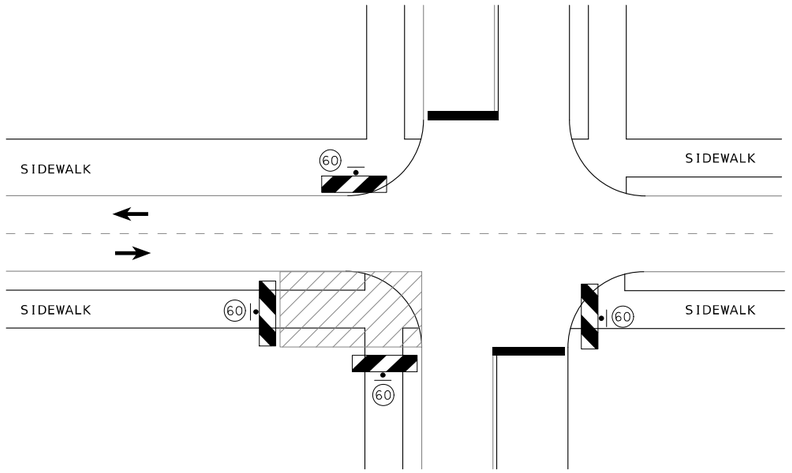
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" TALL WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.

4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4FT OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO BUILDINGS AS SHOWN BELOW.

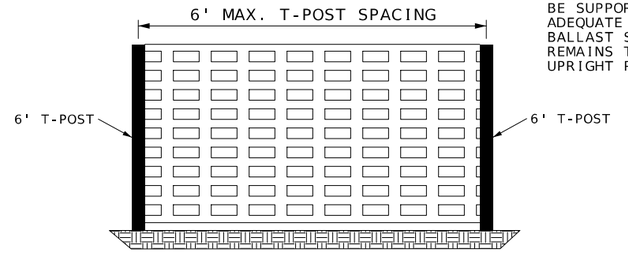
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH, ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH, NO MORE THAN ONE 5FT SECTION OF SIDEWALK SHALL BE CLOSED LEADING TO BUILDINGS AT ANY TIME ADJACENT TO THE WORK AREA.

TYPICAL SIDEWALK CLOSURE

DRAWING NOT TO SCALE.

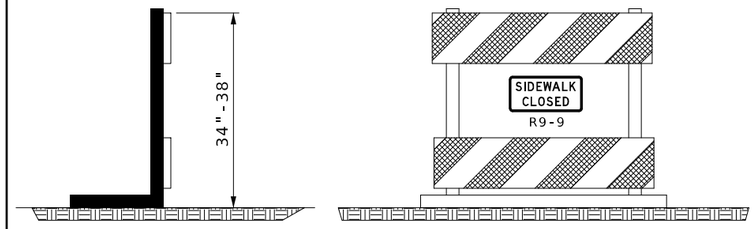


ORANGE PLASTIC SAFETY FENCE



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 UPRIGHT POSITION.

ADA COMPLIANT MOVEABLE BARRICADE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.

2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MINIMUM AND MEET TYPE 3 RETRO-REFELCTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH, CONTINUOUS RAIL SURFACE 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

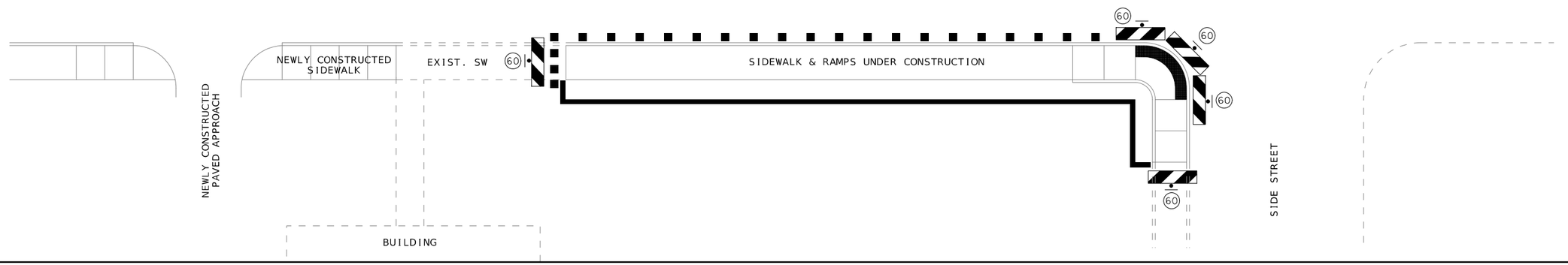
CHANNELIZER

SIDEWALK CLOSED
R9-9

60

TYPICAL SIDEWALK CLOSURE AT EXIST. BUILDING WITH EXIST. SIDEWALK

DRAWING NOT TO SCALE.



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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 43
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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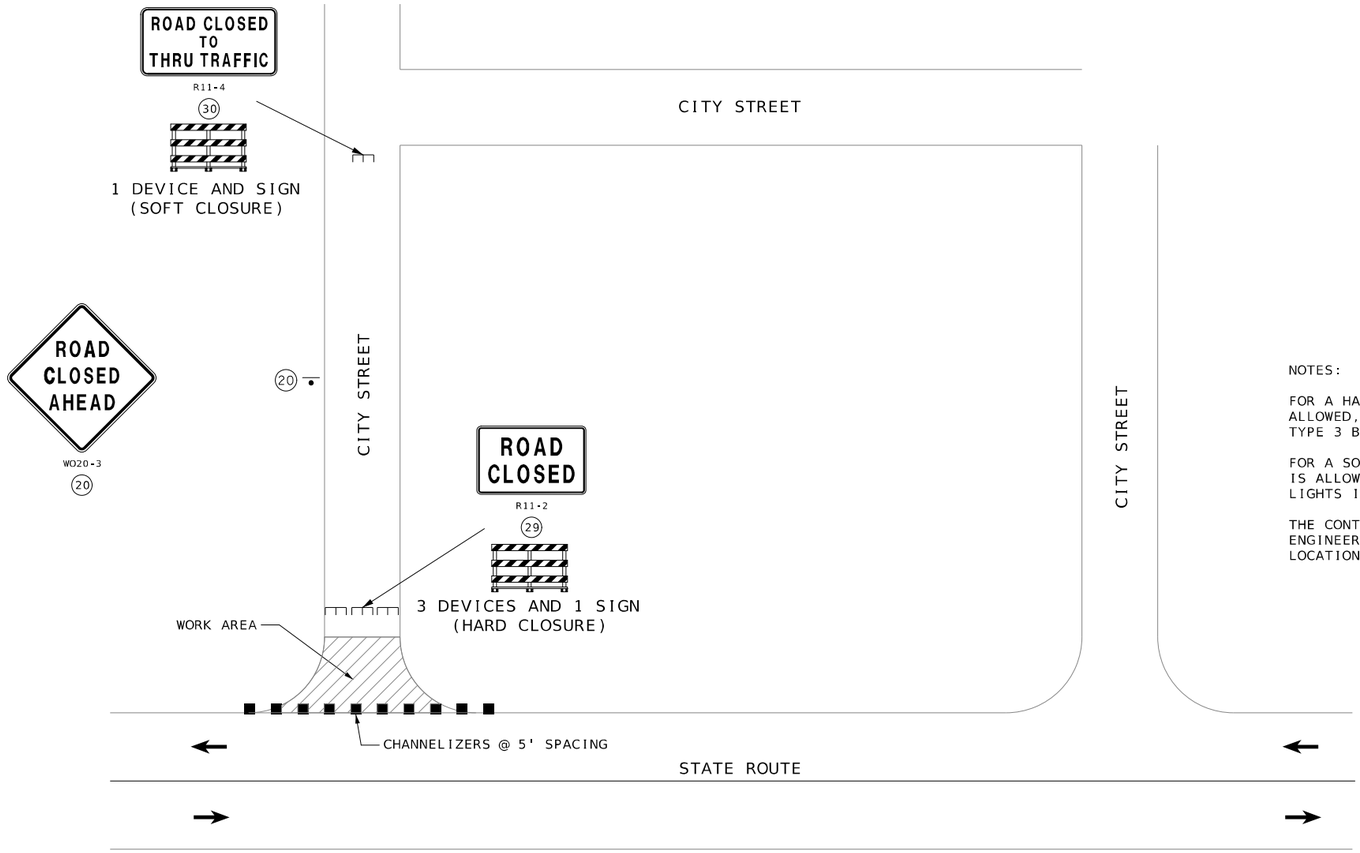
MISSOURI CERT. OF AUTHORITY: 001528

TRAFFIC CONTROL
ADA IMPROVEMENTS
SHEET 4 OF 5

TYPICAL TRAFFIC CONTROL FOR SIDE STREET CLOSURES

DRAWING NOT TO SCALE.



NOTES:

FOR A HARD STREET CLOSURE WHERE NO TRAFFIC IS ALLOWED, TWO (2) TYPE 3 BARRICADES AND ONE (1) TYPE 3 BARRICADE WITH LIGHTS ARE REQUIRED.

FOR A SOFT STREET CLOSURE WHERE LOCAL TRAFFIC IS ALLOWED, ONE (1) TYPE 3 BARRICADE WITH LIGHTS IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THROUGHOUT CONSTRUCTION TO DETERMIN LOCATION FOR SOFT CLOSURES.

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

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DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 44
COUNTY: VARIOUS
JOB NO.: CD0121
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
ADA IMPROVEMENTS
SHEET 5 OF 5

NOTES:

SILT FENCE SHALL BE PLACED IN ALL GRASSY OR OTHER AREAS AS APPROVED BY THE ENGINEER. THE SILT FENCE SHALL BE LOCATED WITHIN THE RIGHT OF WAY, EXCEPT AS NEEDED WHERE RIGHT-OF-ENTRY HAS BEEN ACQUIRED, OR AT LOCATIONS APPROVED BY THE ENGINEER.

ALTERNATIVES TO SILT FENCE MAY ONLY BE USED WITH APPROVAL OF THE ENGINEER.

FOR DETAILS OF TEMPORARY EROSION CONROL, SEE STANDARD PLAN 806.10.

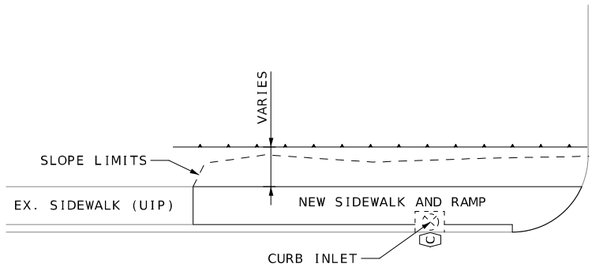
TEMPORARY EROSION CONTROL LEGEND

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

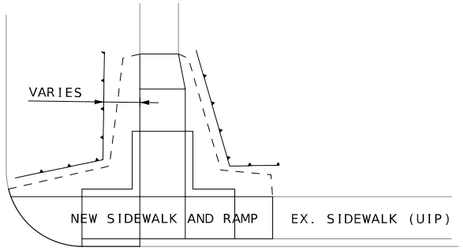
TYPICAL EROSION CONTROL APPLICATIONS FOR NEW CURB RAMP AND SIDEWALK CONSTRUCTION

NOT TO SCALE

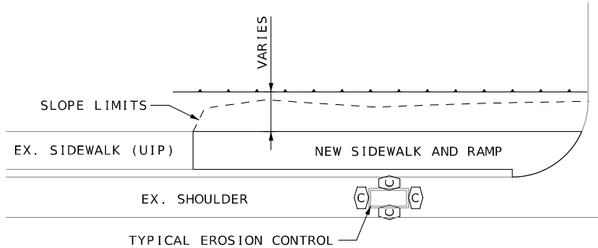
1



TYPICAL ENTRANCE OR SIDE STREET

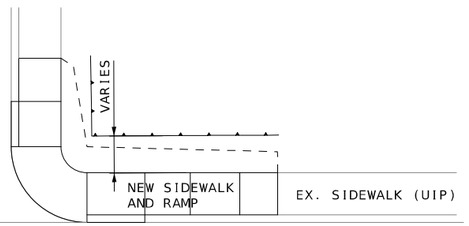


2



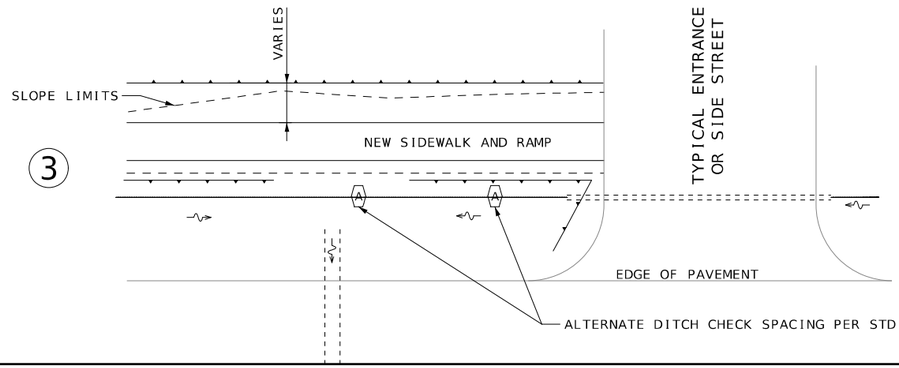
TYPICAL EROSION CONTROL AROUND DROP INLET (PAID FOR AS 1 CURB INLET CHECK PER DROP INLET)

TYPICAL ENTRANCE OR SIDE STREET



EDGE OF PAVEMENT

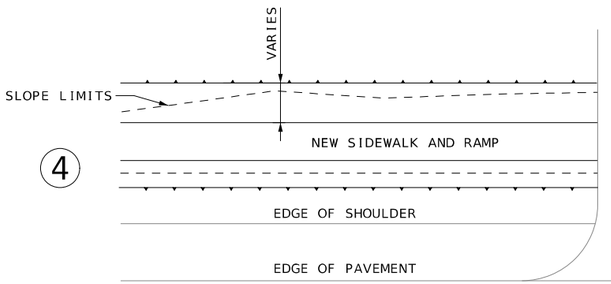
3



TYPICAL ENTRANCE OR SIDE STREET

ALTERNATE DITCH CHECK SPACING PER STD. PLAN 806.10

4



TYPICAL ENTRANCE OR SIDE STREET

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008609
PROFESSIONAL ENGINEER

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

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 45
COUNTY: VARIOUS
JOB NO.: CD0121
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)

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

EROSION CONTROL
ADA IMPROVEMENTS
SHEET 1 OF 1

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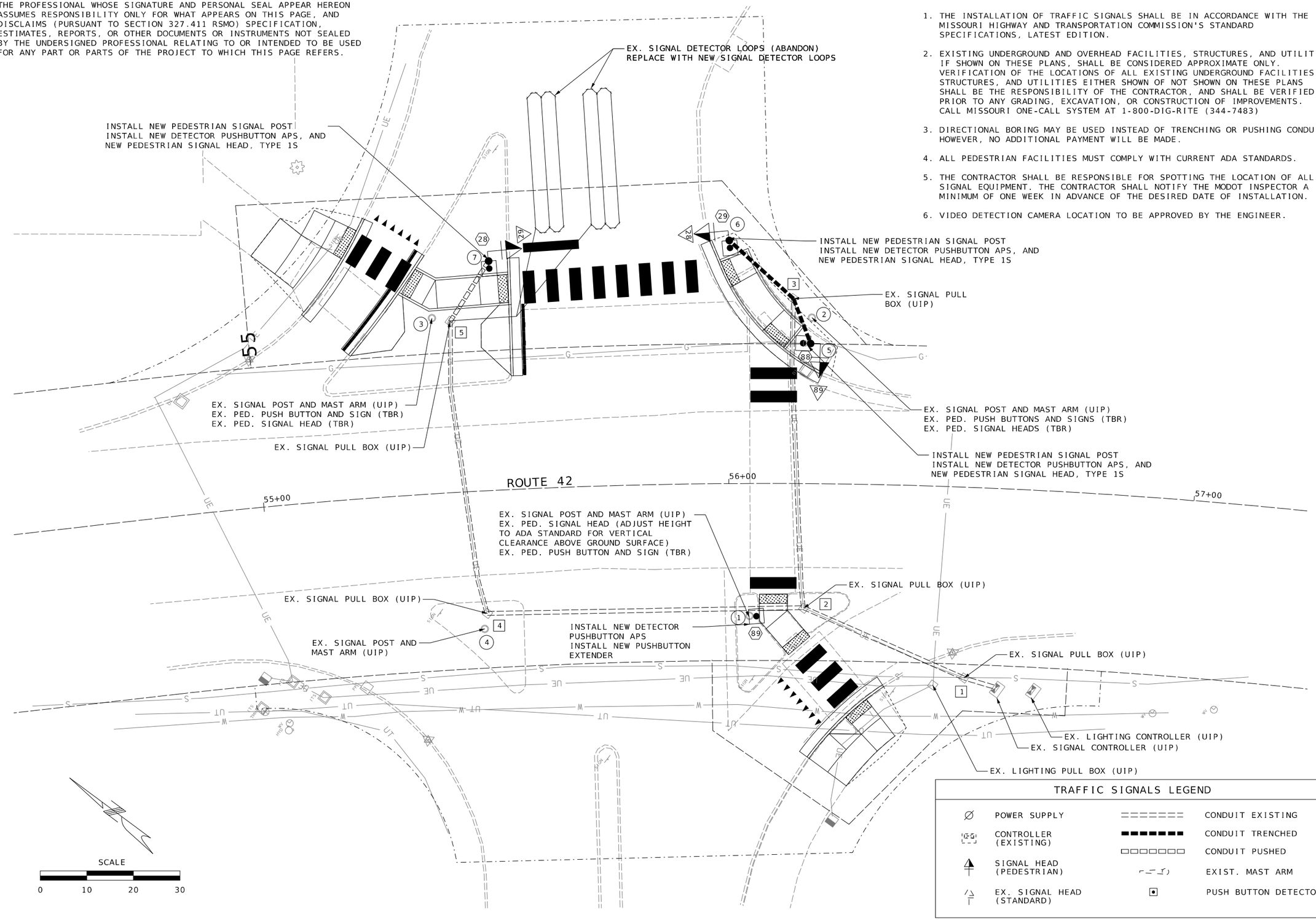
GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. EXISTING UNDERGROUND AND OVERHEAD FACILITIES, STRUCTURES, AND UTILITIES IF SHOWN ON THESE PLANS, SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF THE LOCATIONS OF ALL EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES EITHER SHOWN OF NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE VERIFIED PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. CALL MISSOURI ONE-CALL SYSTEM AT 1-800-DIG-RITE (344-7483)
3. DIRECTIONAL BORING MAY BE USED INSTEAD OF TRENCHING OR PUSHING CONDUIT, HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE.
4. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.
6. VIDEO DETECTION CAMERA LOCATION TO BE APPROVED BY THE ENGINEER.



TRAFFIC SIGNALS LEGEND

∅	POWER SUPPLY	═══	CONDUIT EXISTING
	CONTROLLER (EXISTING)	▬▬▬	CONDUIT TRENCHED
		□□□	CONDUIT PUSHED
	SIGNAL HEAD (PEDESTRIAN)	⌐¬	EXIST. MAST ARM
	EX. SIGNAL HEAD (STANDARD)	⊙	PUSH BUTTON DETECTOR

NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008809
PROFESSIONAL ENGINEER
STATE OF MISSOURI

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	46

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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

DESCRIPTION | DATE

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

TWM
ENGINEERING
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3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 1 OF 24

EFFECTIVE: 07/01/2018

POST NUMBER	PULL BOX NUMBER	LOCATION: APPROACH	LOCATION: STATION	LOCATION: OFFSET	BASE: A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	C	CONCRETE** (CU. YDS.)
			CONTROLLER	(AS REQ'D)														
5		NB RTE 42																0.44
6		WB ENTR.																0.44
7		WB ENTR.																0.44
				SUBTOTAL														1.32
				TOTAL														1.3

POST NUMBER	PULL BOX: PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	DRAIN TYPE* II B	DRAIN TYPE* II C	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.
5												1	
6												1	
7												1	
												3	
												3	

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

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	INDICATIONS * 12" LENS CONVENTIONAL	12" LENS OPTICAL LIMITING	VISORS * 12" LENS	VISORS * PED.	LOUVERS *	BACKPLATE* LENSES	RETROREFLECTIVE BACKPLATE* LENSES	BRACKET* TYPE	ONE-FACE SECTION	TWO-FACE SECTIONS
	1	88		1								*	
	5	89		1								1	
	6	28		1								1	
	7	29		1								1	

SUBTOTAL OPTICALLY LIMITED	
SUBTOTAL CONVENTIONAL	3
SUBTOTAL COMBINATION OL & CONV	
TOTAL OPTICALLY LIMITED	
TOTAL CONVENTIONAL	3
TOTAL COMBINATION OL & CONV	

SUBTOTAL
TOTAL

SPAN WIRE POLES

POST NUMBER	WOOD CLASS IV	STEEL (A10 BASE REQUIRED)
SUBTOTAL		
TOTAL		

SPAN WIRE CABLE SPANS

SPAN NUMBER	FROM POST	TO POST	SINGLE MESSENGER ASSEMBLY (LIN. FT.)	MESSENGER ASSEMBLY WITH TETHER (LIN. FT.)
SUBTOTAL				
TOTAL				

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

* ADJUST HEIGHT OF EXISTING PEDESTRIAN SIGNAL HEAD TO MEET ADA STANDARDS (NO DIRECT PAYMENT)

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ROUTE 42 AT SCHOOL OF THE OSAGE ENTRANCE

INTERSECTION

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

D-37A

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

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010008609
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 47
COUNTY: VARIOUS
JOB NO.: CD0121
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)

TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 2 OF 24

EFFECTIVE: 10-01-2015

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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
3	5	11			13												
3	6	19			21												
5	7	15							17								
SUBTOTALS					34				17								
TOTALS					34				17								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
	5	123			158											DET-88
	5	123				159										F-89
	6	131			166											DET-29
	6	131				167										F-28
	7	191			232											DET-28
	7	191				233										F-29
	5	176										652	208			LOOP REPLACEMENT, WB APPROACH
SUBTOTALS					556	559						652	208			
TOTALS					560	560						650	210			

INTERSECTION ROUTE 42 AT SCHOOL OF THE OSAGE ENTRANCE

D-37B

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 48
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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ST. LOUIS, MO 63127
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www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 3 OF 24

EFFECTIVE 04-01-2018

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POWER SUPPLY

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

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

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

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE					
		PUSH BUTTON	PUSH BUTTON EXTENDER	INDUCTION LOOP (2)			VIDEO
				STANDARD	DELAY/ EXTEND *	CALL UNIT *	
89	SW QUAD	1	1				
29	SE QUAD	1					
88	SE QUAD	1					
28	NE QUAD	1					
TOTAL		4	1				

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12

SIGNAL SIGNS (4)

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	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		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
1	R10-3E(L)	9 X 15	0.9	INCL. IN APS PAY ITEM	
3	R10-3E(R)	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
		SUBTOTAL			
		TOTAL			

CENTRAL MASTER CONTROL UNIT (APS) (5)
USE = 1 EA

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL DETECTION ZONES SHOWN IN THE PLANS OR AS DETERMINED BY THE ENGINEER. THE METHOD OF VEHICLE DETECTION SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS AND SPECIAL PROVISIONS. ALL EQUIPMENT USED SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCTS LIST AND RECEIVE MOFOT APPROVAL PRIOR TO INSTALLATION. THE DETECTION SYSTEM WILL BE COMPLETE WITH ALL COSTS INCLUDED.

(4) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY FOR ITEM DETECTOR PUSHBUTTON APS.

(5) CENTRAL MASTER CONTROL UNIT (APS) IS INCLUDED IN THE PAY ITEM FOR DETECTOR PUSHBUTTON APS.

ROUTE 42 AT SCHOOL OF THE OSAGE ENTRANCE

INTERSECTION

D-37C

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	49

COUNTY: VARIOUS

JOB NO.: CD0121

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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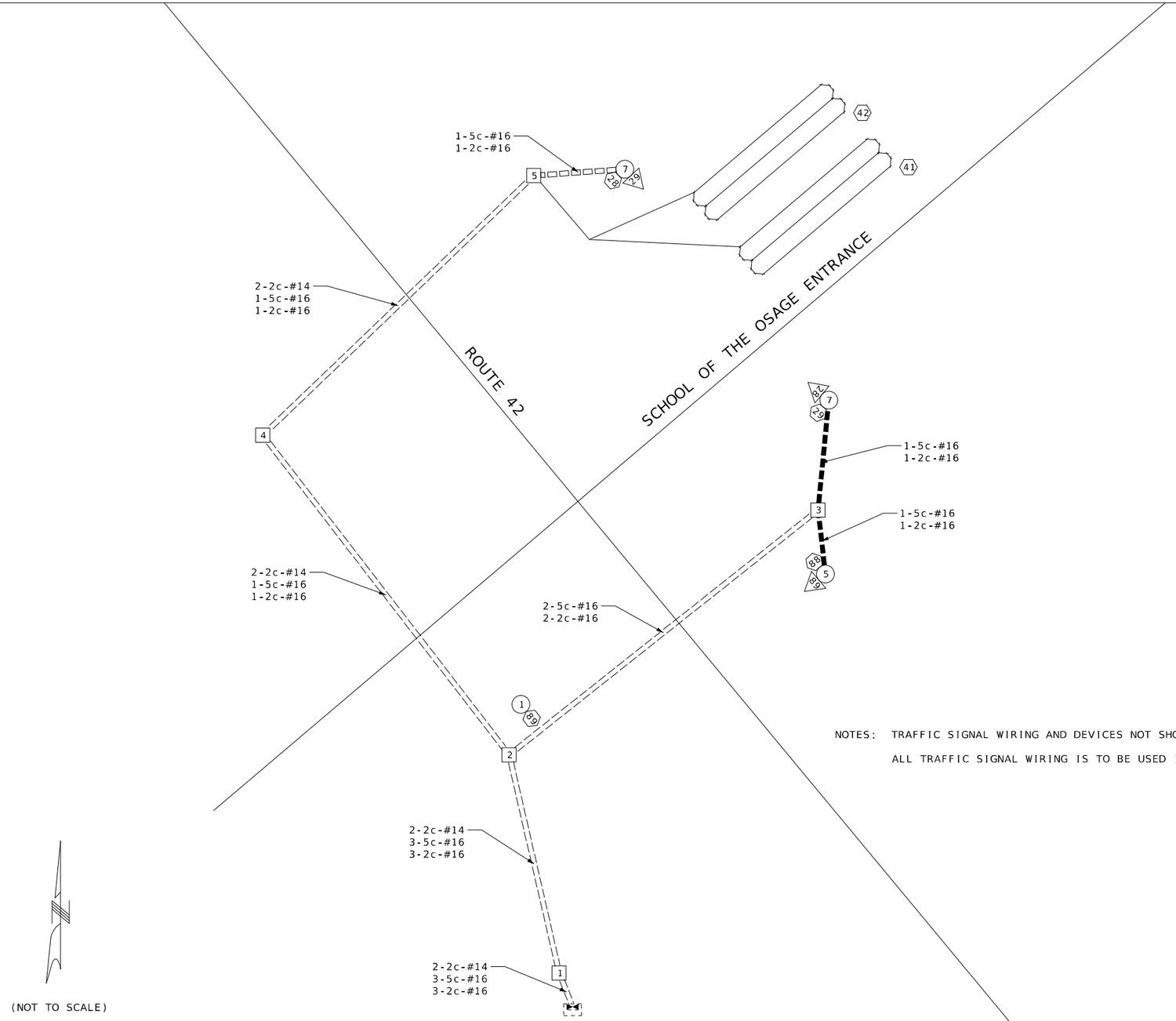
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 4 OF 24

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

EFFECTIVE 12-01-17

WIRING DIAGRAM



(NOT TO SCALE)

NOTES: TRAFFIC SIGNAL WIRING AND DEVICES NOT SHOWN.

ALL TRAFFIC SIGNAL WIRING IS TO BE USED IN PLACE.

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
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

NOTES:

1. ONLY NEW WIRING RUNS SHOWN. ALL OTHER EQUIPMENT TO USE EXISITNG WIRING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDUIT LOCATIONS.

ROUTE 42 AND SCHOOL OF THE OSAGE ENTRANCE

INTERSECTION

D-37D

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STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	50

COUNTY: VARIOUS

JOB NO.: CD0121

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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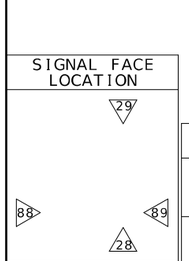
MISSOURI CERT. OF AUTHORITY: 001528

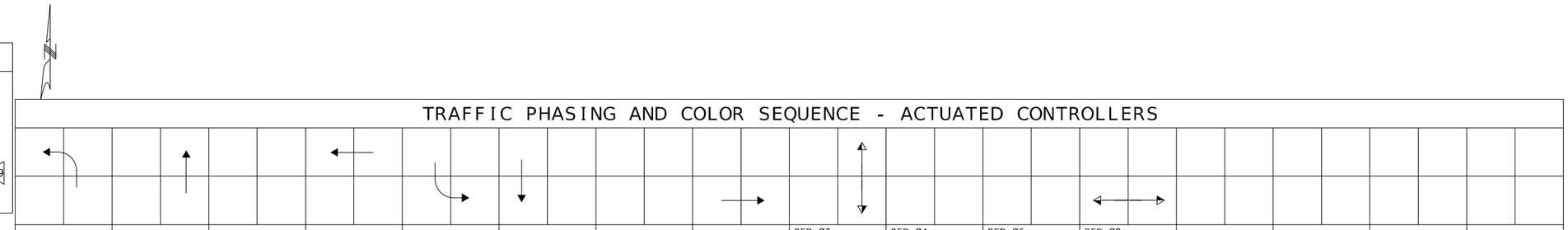
SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 5 OF 24

EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION

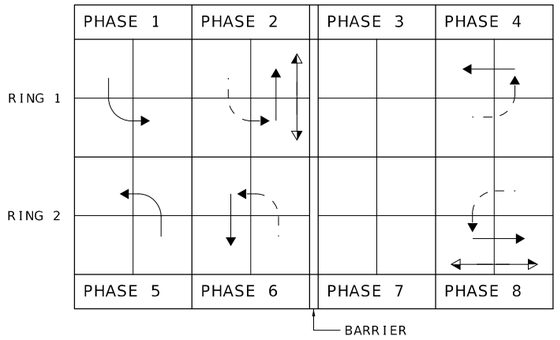


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2 OVERLAP	PED Ø4 OVERLAP	PED Ø6 OVERLAP	PED Ø8 OVERLAP
FACE NUMBERS									28 29			88 89
SIGNAL INDICATIONS R									DW DW			DW DW
SIGNAL INDICATIONS Y									FDW FDW			FDW FDW
SIGNAL INDICATIONS FYA												
SIGNAL INDICATIONS G									W W			W W
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)									29 28			69 68
OVERLAP PARENT PHASES												

NOTE: PHASING SHOWN FOR INFORMATION ONLY;
EXISTING TRAFFIC SIGNAL PHASING TO BE USED
WITH PED. PHASE ADDED ACROSS NORTH LEG.



RING STRUCTURE

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

LEGEND

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

DISCLAIMER:
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FLASHING OPERATION	
ALL APPROACHES	FR
	FY
CONTROLLER TYPE	(UIP)

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 42
WITH SCHOOL OF THE OSAGE ENTRANCE

D-38A

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED	
4/10/2024	
ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	51
COUNTY	
VARIOUS	
JOB NO.	
CD0121	
CONTRACT ID.	
.	
PROJECT NO.	
.	
BRIDGE NO.	
.	

DESCRIPTION	DATE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SIGNAL SHEET
LOCATION 3
ROUTE 42 AT
SCHOOL OF THE OSAGE
SHEET 6 OF 24

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

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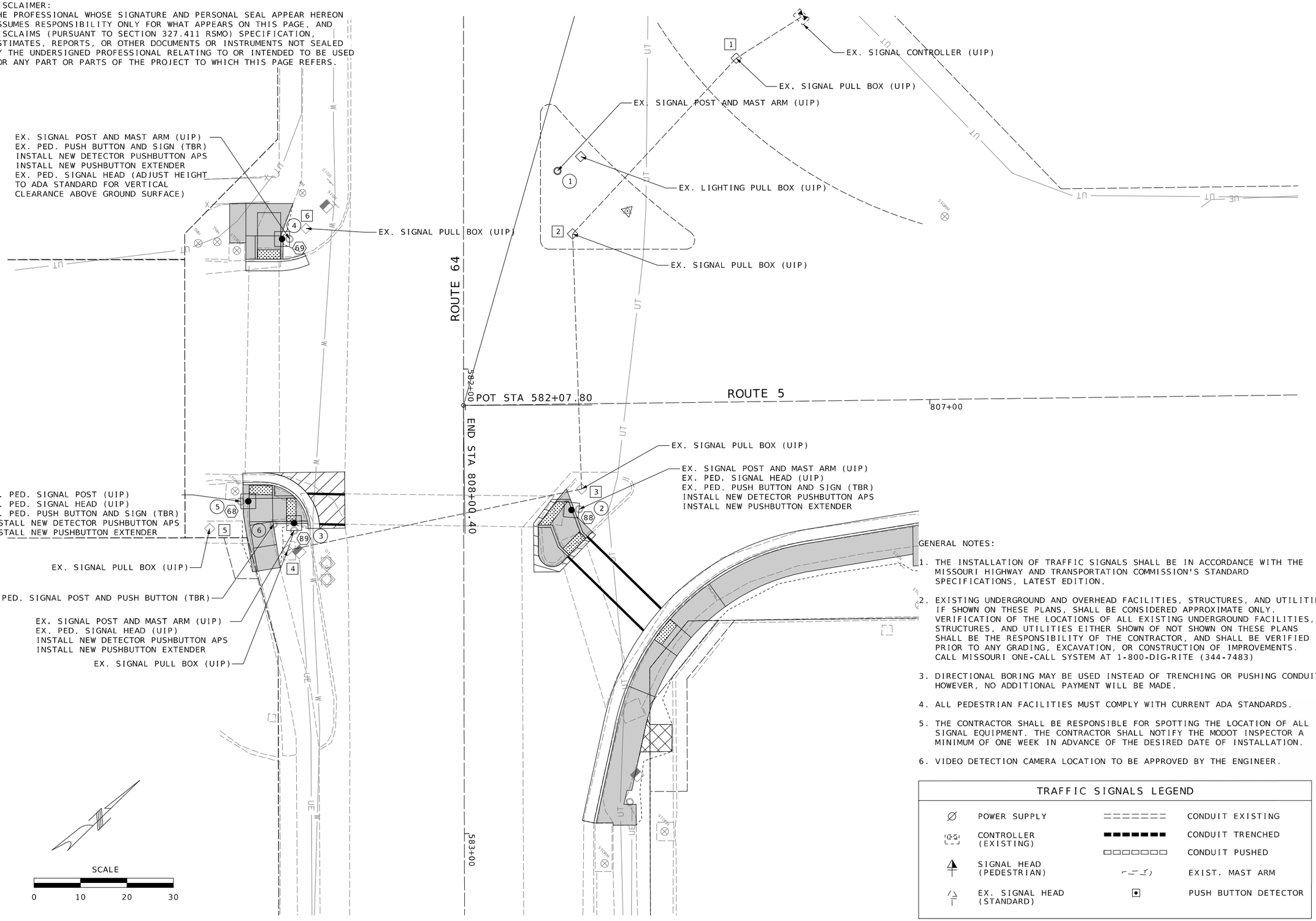

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. EXISTING UNDERGROUND AND OVERHEAD FACILITIES, STRUCTURES, AND UTILITIES IF SHOWN ON THESE PLANS, SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF THE LOCATIONS OF ALL EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES EITHER SHOWN OF NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE VERIFIED PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. CALL MISSOURI ONE-CALL SYSTEM AT 1-800-DIG-RITE (344-7483)
3. DIRECTIONAL BORING MAY BE USED INSTEAD OF TRENCHING OR PUSHING CONDUIT, HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE.
4. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.
6. VIDEO DETECTION CAMERA LOCATION TO BE APPROVED BY THE ENGINEER.

TRAFFIC SIGNALS LEGEND

∅	POWER SUPPLY	=======	CONDUIT EXISTING
	CONTROLLER (EXISTING)	▬▬▬▬▬▬	CONDUIT TRENCHED
		□□□□□□□	CONDUIT PUSHED
	SIGNAL HEAD (PEDESTRIAN)	⌐¬ʃ	EXIST. MAST ARM
	EX. SIGNAL HEAD (STANDARD)	⊡	PUSH BUTTON DETECTOR

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	52

COUNTY
VARIOUS
JOB NO.
CD0121
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

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

TWM
ENGINEERING
GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
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MISSOURI CERT. OF AUTHORITY: 001538

SIGNAL SHEET
LOCATION 4
ROUTE 64 AT ROUTE 5
SHEET 7 OF 24

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION | | | BASE | | | | | | | | | | | | C | CONCRETE** (CU. YDS.) | PULL BOX | | | | | | | | POST | | | | | | | | | | | |

EFFECTIVE: 10-01-2015

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CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
SUBTOTALS																	
TOTALS																	

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
	3	228			269											DET-89
SUBTOTALS					269											
TOTALS					270											

INTERSECTION ROUTE 64 AT ROUTE 5

D-37B

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 54
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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ST. LOUIS, MO 63127
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MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 4
ROUTE 64 AT ROUTE 5
SHEET 9 OF 24

EFFECTIVE 04-01-2018

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POWER SUPPLY

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

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

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

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE					
		PUSH BUTTON	PUSH BUTTON EXTENDER	INDUCTION LOOP (2)			VIDEO
				STANDARD	DELAY/ EXTEND *	CALL UNIT *	
68	SW QUAD	1	1				
69	NW QUAD	1	1				
88	SE QUAD	1	1				
89	SW QUAD	1	1				
TOTAL		4	4				

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12

SIGNAL SIGNS (4)

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	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		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
2	R10-3E(L)	9 X 15	0.9	INCL. IN APS PAY ITEM	
2	R10-3E(R)	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

CENTRAL MASTER CONTROL UNIT (APS) (5)
USE = 1 EA

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL DETECTION ZONES SHOWN IN THE PLANS OR AS DETERMINED BY THE ENGINEER. THE METHOD OF VEHICLE DETECTION SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS AND SPECIAL PROVISIONS. ALL EQUIPMENT USED SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCTS LIST AND RECEIVE MOFOT APPROVAL PRIOR TO INSTALLATION. THE DETECTION SYSTEM WILL BE COMPLETE WITH ALL COSTS INCLUDED.

(4) FOR PEDESTRIAN SIGNS, BOTH SIGNS AND MOUNTING HARDWARE ARE INCLUDED IN PAY FOR ITEM DETECTOR PUSHBUTTON APS.

(5) CENTRAL MASTER CONTROL UNIT (APS) IS INCLUDED IN THE PAY ITEM FOR DETECTOR PUSHBUTTON APS.

ROUTE 64 AT ROUTE 5

INTERSECTION

D-37C

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS | STATE: MO
DISTRICT: CD | SHEET NO.: 55
COUNTY: VARIOUS
JOB NO.: CD0121
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)

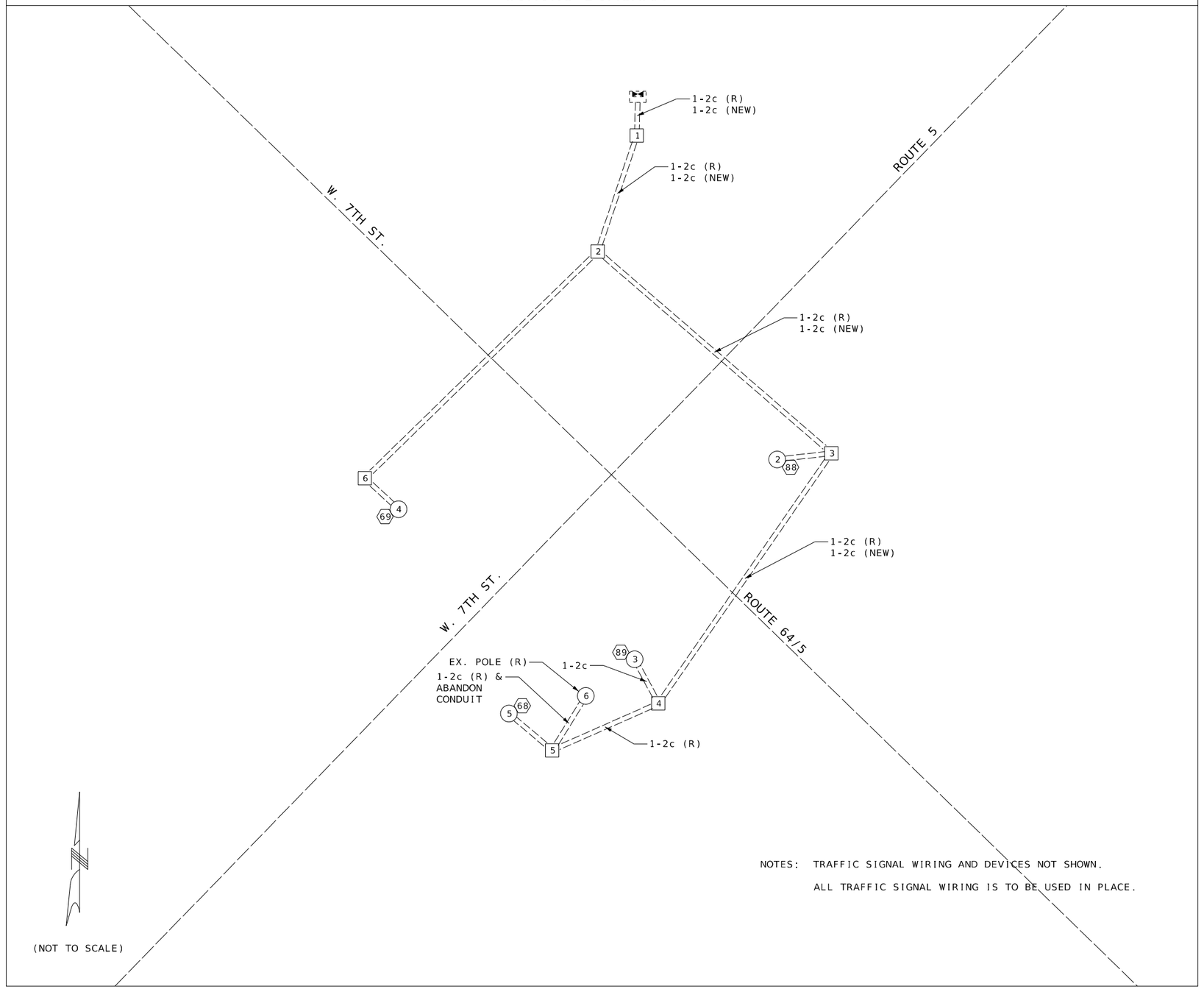
TWM ENGINEERING GEOSPATIAL SERVICES
3701 S. LINDBERGH BLVD, SUITE 100
ST. LOUIS, MO 63127
(314) 241-6300
www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001528

SIGNAL SHEET
LOCATION 4
ROUTE 64 AT ROUTE 5
SHEET 10 OF 24

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

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOTES: TRAFFIC SIGNAL WIRING AND DEVICES NOT SHOWN.

ALL TRAFFIC SIGNAL WIRING IS TO BE USED IN PLACE.

NOTES:

1. ONLY NEW WIRING RUNS SHOWN. ALL OTHER EQUIPMENT TO USE EXISITNG WIRING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDUIT LOCATIONS.

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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
- X — POST WITH NUMBER
- X — POST WITH MAST ARM
- X — POST WITH MAST ARM AND LUMINAIRE
- X — DETECTOR WITH NUMBER
- X — SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER

ROUTE 64 (N. JEFFERSON AVE.) AT ROUTE 5 (E. 7TH ST.)

INTERSECTION

D-37D

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	56

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

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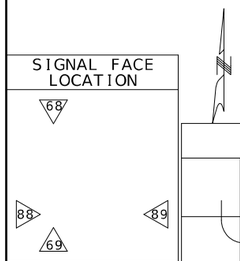
MISSOURI CERT. OF AUTHORITY: 001528

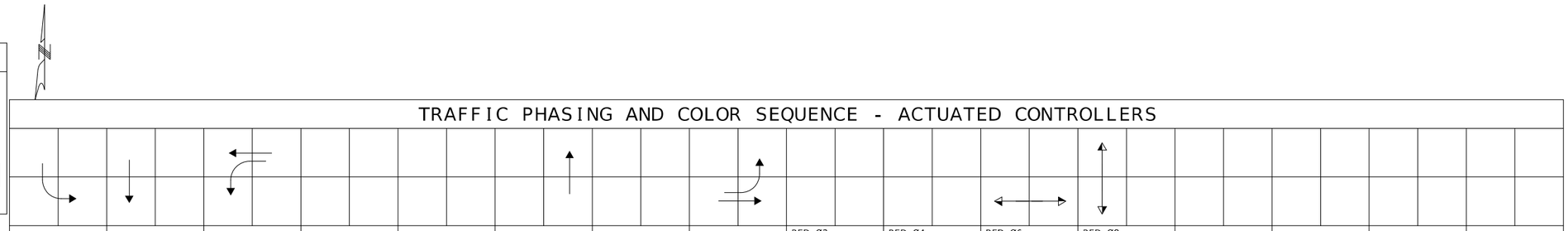
SIGNAL SHEET
LOCATION 4
ROUTE 64 AT ROUTE 5
SHEET 11 OF 24

EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION

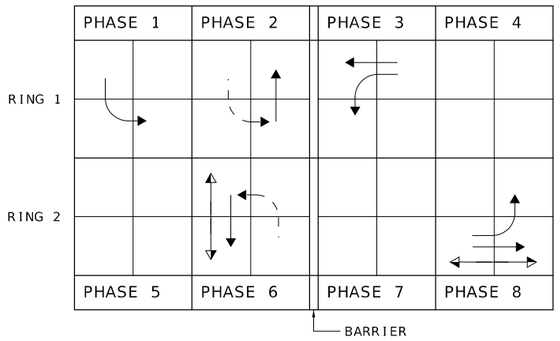


TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2 OVERLAP	PED Ø4 OVERLAP	PED Ø6 OVERLAP	PED Ø8 OVERLAP
FACE NUMBERS											68 69	88 89
SIGNAL INDICATIONS R											DW DW	DW DW
SIGNAL INDICATIONS Y											FDW FDW	FDW FDW
SIGNAL INDICATIONS FYA												
SIGNAL INDICATIONS G											W W	W W
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)											69 68	89 88
OVERLAP PARENT PHASES												

NOTE: PHASING SHOWN FOR INFORMATION ONLY;
EXISTING TRAFFIC SIGNAL PHASING TO BE USED
WITH PED. PHASE ADDED ACROSS NORTH LEG.



RING STRUCTURE

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LEGEND

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

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FLASHING OPERATION	
ALL APPROACHES	FR
	FY
CONTROLLER TYPE	(UIP)

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF ROUTE 64 (N. JEFFERSON AVE.)
WITH ROUTE 5 (E. 7TH ST.)

D-38A

STATE OF MISSOURI
NICHOLAS MICHAEL CORRENTI
NUMBER PE-2010000809
PROFESSIONAL ENGINEER

DATE PREPARED: 4/10/2024
ROUTE: VARIOUS
STATE: MO
DISTRICT: CD
SHEET NO.: 57
COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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

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

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www.twm-inc.com
MISSOURI CERT. OF AUTHORITY: 001538

SIGNAL SHEET
LOCATION 4
ROUTE 64 AT ROUTE 5
SHEET 12 OF 24

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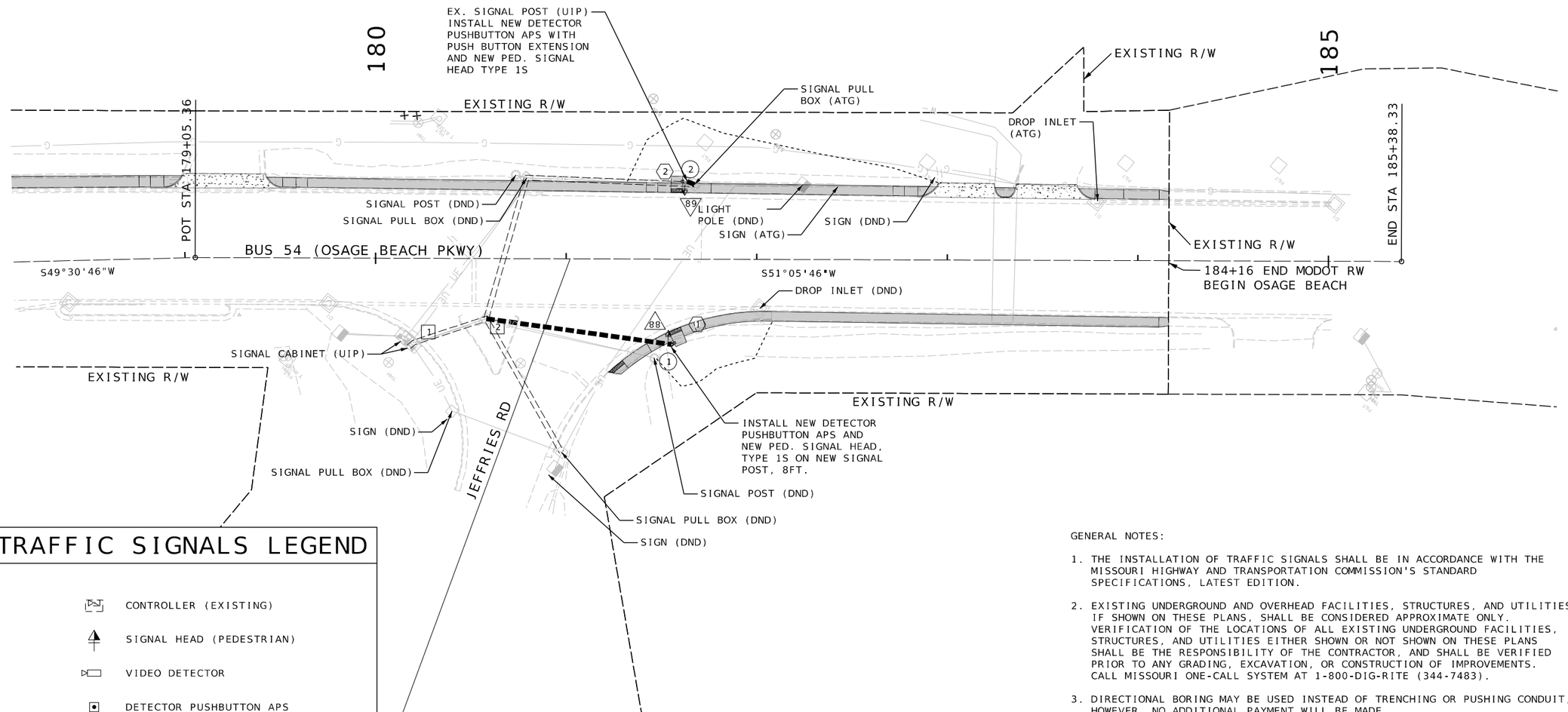
SCALE

0 20 40 60



TRAFFIC SIGNALS LEGEND

- CONTROLLER (EXISTING)
- SIGNAL HEAD (PEDESTRIAN)
- VIDEO DETECTOR
- DETECTOR PUSHBUTTON APS
- CONDUIT EXISTING
- CONDUIT TRENCHED

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
2. EXISTING UNDERGROUND AND OVERHEAD FACILITIES, STRUCTURES, AND UTILITIES IF SHOWN ON THESE PLANS, SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF THE LOCATIONS OF ALL EXISTING UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE VERIFIED PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. CALL MISSOURI ONE-CALL SYSTEM AT 1-800-DIG-RITE (344-7483).
3. DIRECTIONAL BORING MAY BE USED INSTEAD OF TRENCHING OR PUSHING CONDUIT, HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE.
4. ALL PEDESTRIAN FACILITIES MUST COMPLY WITH CURRENT ADA STANDARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPOTTING THE LOCATION OF ALL SIGNAL EQUIPMENT. THE CONTRACTOR SHALL NOTIFY THE MODOT INSPECTOR A MINIMUM OF ONE WEEK IN ADVANCE OF THE DESIRED DATE OF INSTALLATION.

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	58

COUNTY: VARIOUS
JOB NO.: CD0121
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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI ENGINEERS, INC.
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SIGNAL PLAN SHEET
JEFFRIES RD
BUS 54(OSAGE BEACH PKWY)
SHEET 13 OF 24

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

REV.

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST (1) 4 FT. | POST TOP MOUNT POST (1) 8 FT. | POST TOP MOUNT POST (1) 15 FT. | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL SIGNAL SPACING B | POST TYPE C & CL SIGNAL SPACING C | POST TYPE C & CL SIGNAL SPACING D | POST TYPE C & CL SIGNAL SPACING D' | POST TYPE C & CL SIGN SPACING B | POST TYPE C & CL SIGN SPACING C | POST TYPE C & CL SIGN SPACING D | POST TYPE C & CL SIGN SPACING D' | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL LEFT ARM E SIGNAL SPACING F | POST TYPE B & BL LEFT ARM E SIGNAL SPACING G | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H' | POST TYPE B & BL LEFT ARM E SIGN SPACING F | POST TYPE B & BL LEFT ARM E SIGN SPACING G | POST TYPE B & BL LEFT ARM E SIGN SPACING H | POST TYPE B & BL LEFT ARM E SIGN SPACING H' | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING L | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING M | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | POST TYPE B & BL RIGHT ARM K SIGN SPACING L | POST TYPE B & BL RIGHT ARM K SIGN SPACING M | POST TYPE B & BL RIGHT ARM K SIGN SPACING N | POST TYPE B & BL RIGHT ARM K SIGN SPACING N' | POST TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

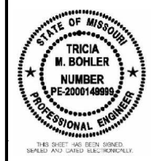
FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
2	1	98			100												
SUBTOTALS					100												
TOTALS					100												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
	1	140				170										F-88
					169											PUSHBUTTON
SUBTOTALS					169	170										
TOTALS					170	170										

INTERSECTION BUS 54 & JEFFRIES RD

D-37B



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/10/2024

ROUTE	STATE
VARIOUS	MO

DISTRICT	SHEET NO.
CD	60

COUNTY
VARIOUS

JOB NO.
CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.3570

CIVIL DESIGN, INC.

Missouri State Certificate of Authority #2002006604

SIGNAL DETAIL SHEET
JEFFRIES RD
BUS 54(OSAGE BEACH PKWY)
SHEET 15 OF 24

REV.

P:\5XXX\56XX-57XX\5691 - J5S3369 MoDOT Mid MO ADA Bundle Phase 1\28-Trans\CAD\Osage\Project Drawings\060_SG_03_D37B_J5S3369_I1.dgn 11:22:31 AM 4/10/2024

EFFECTIVE 04-01-2018

POWER SUPPLY

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

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

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

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

NEMA LOAD SWITCH ASSIGNMENTS (UIP)

1	2	3	4	5	6	7	8	9	10	11	12

SIGNAL SIGNS (4)

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	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		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3ER	9 X 15	0.9	INCLUDED IN APS PAY ITEM	
	R10-3EL	9 X 15	0.9		
	R10-3EMod	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE					
		DETECTOR PUSHBUTTON APS (4)	PEDESTRIAN PUSH BUTTON EXTENSION	INDUCTION LOOP (2)			VIDEO
				STANDARD	DELAY/ EXTEND *	CALL UNIT *	
2	JEFFRIES RD	1	1				
1	JEFFRIES RD	1					
TOTAL		2	1				

CENTRAL MASTER CONTROL UNIT (APS) (5)
USE = 1 EA

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL DETECTION ZONES SHOWN IN THE PLANS OR AS DETERMINED BY THE ENGINEER. THE METHOD OF VEHICLE DETECTION SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS AND SPECIAL PROVISIONS. ALL EQUIPMENT USED SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCTS LIST AND RECEIVE MODOT APPROVAL PRIOR TO INSTALLATION. THE DETECTION SYSTEM WILL BE COMPLETE WITH ALL COSTS INCLUDED.

(4) PEDESTRIAN SIGNS, MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM DETECTOR PUSHBUTTON APS.

(5) CENTRAL MASTER CONTROL UNIT (APS) IS INCLUDED IN THE PAY ITEM FOR DETECTOR PUSHBUTTON APS.

BUS 54 & JEFFRIES RD

INTERSECTION

D-37C

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS ITEM WAS DIGITALLY SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	61

COUNTY: VARIOUS

JOB NO.: CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

SIGNAL DETAIL SHEET
JEFFRIES RD
BUS 54(OSAGE BEACH PKWY)
SHEET 16 OF 24

REV.

P:\5XXX\56XX-57XX\5691 - J5S3369 MoDOT Mid MO ADA Bundle Phase 1\28-Trans\CAD\Osage\Project Drawings\061_SG_04_D37C_J5S3369_l1.dgn 11:22:35 AM 4/10/2024

EFFECTIVE 12-01-17

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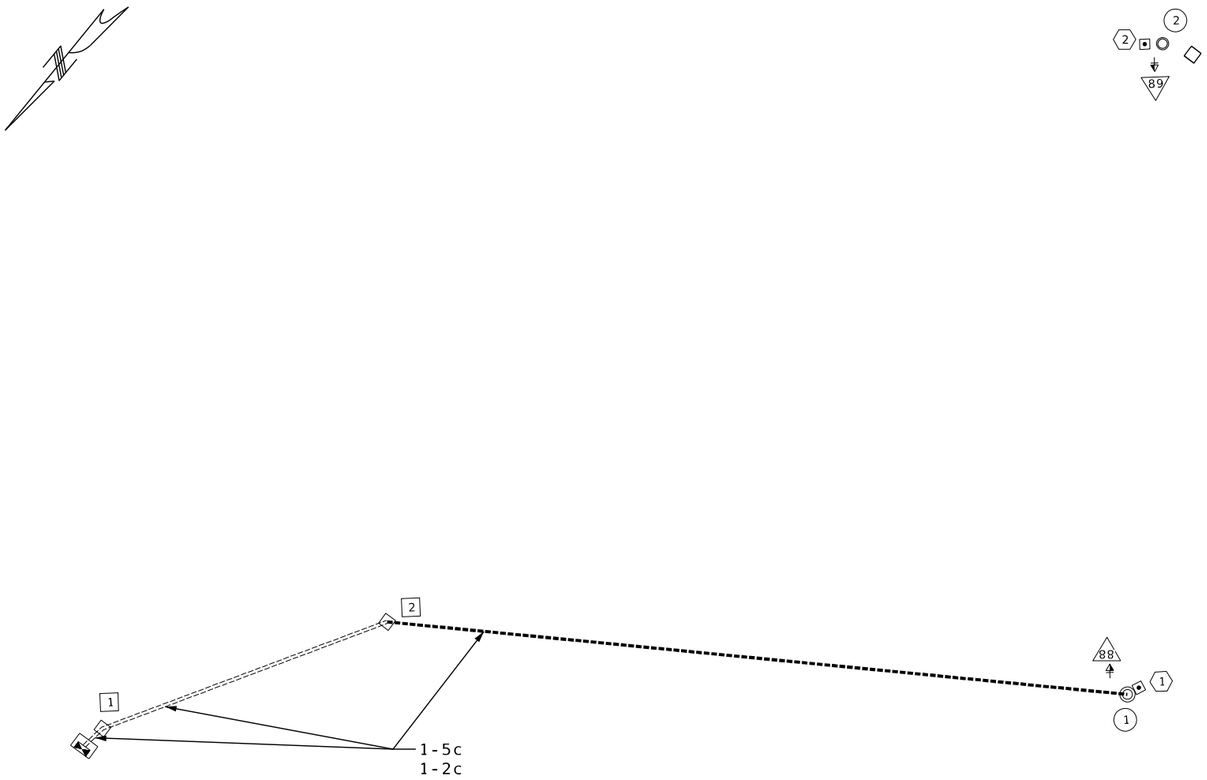
WIRING DIAGRAM



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
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

NOTE:

1. ONLY NEW WIRING RUNS SHOWN. ALL OTHER EQUIPMENT TO USE EXISTING WIRING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDUIT LOCATIONS.

BUS 54 & JEFFRIES RD

INTERSECTION

D-37D

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2000146999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	62

COUNTY: VARIOUS

JOB NO.: CD0121

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)

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

CDI ENGINEERS, INC.
CIVIL DESIGN, INC.

Missouri State Certificate of Authority # 2002006884

SIGNAL DETAIL SHEET
JEFFRIES RD
BUS 54(OSAGE BEACH PKWY)
SHEET 17 OF 24

REV.

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

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EFFECTIVE 12/01/2017

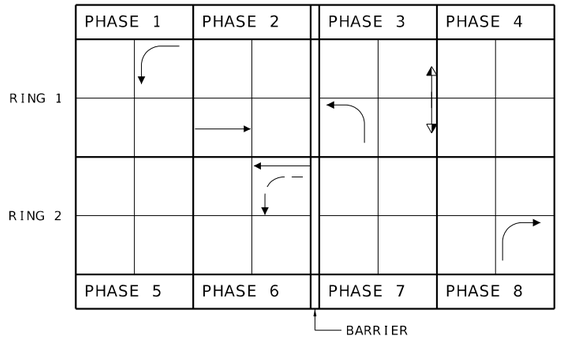
SIGNAL FACE LOCATION

89

88

TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2 / OVERLAP 1	PED Ø4 / OVERLAP 2	PED Ø6 / OVERLAP 3	PED Ø8 / OVERLAP 4	
FACE NUMBERS												88 89	FACE NUMBERS
SIGNAL INDICATIONS R												DW DW	R
SIGNAL INDICATIONS Y												FWD FWD	Y
SIGNAL INDICATIONS FYA													FYA
SIGNAL INDICATIONS G												W W	G
DETECTOR ASSIGNMENTS													DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)												88 89	
OVERLAP PARENT PHASES													



RING STRUCTURE

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

LEGEND

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

FLASHING OPERATION	
ALL	FR
	FY

CONTROLLER TYPE	UIP

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

BUS 54 WITH JEFFRIES RD

DISCLAIMER

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STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	63

COUNTY: VARIOUS

JOB NO.: CD0121

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

CDI ENGINEERS
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

SIGNAL DETAIL SHEET
JEFFRIES RD
BUS 54(OSAGE BEACH PKWY)
SHEET 18 OF 24

D-38A

REV.

P:\5XXX\56XX-57XX\5691 - J5S3369 MoDOT Mid MO ADA Bundle Phase 1\28-Trans\CAD\Osage\Project Drawings\063_SG_06_D38A_J5S3369_l1.dgn 11:24:40 AM 4/10/2024

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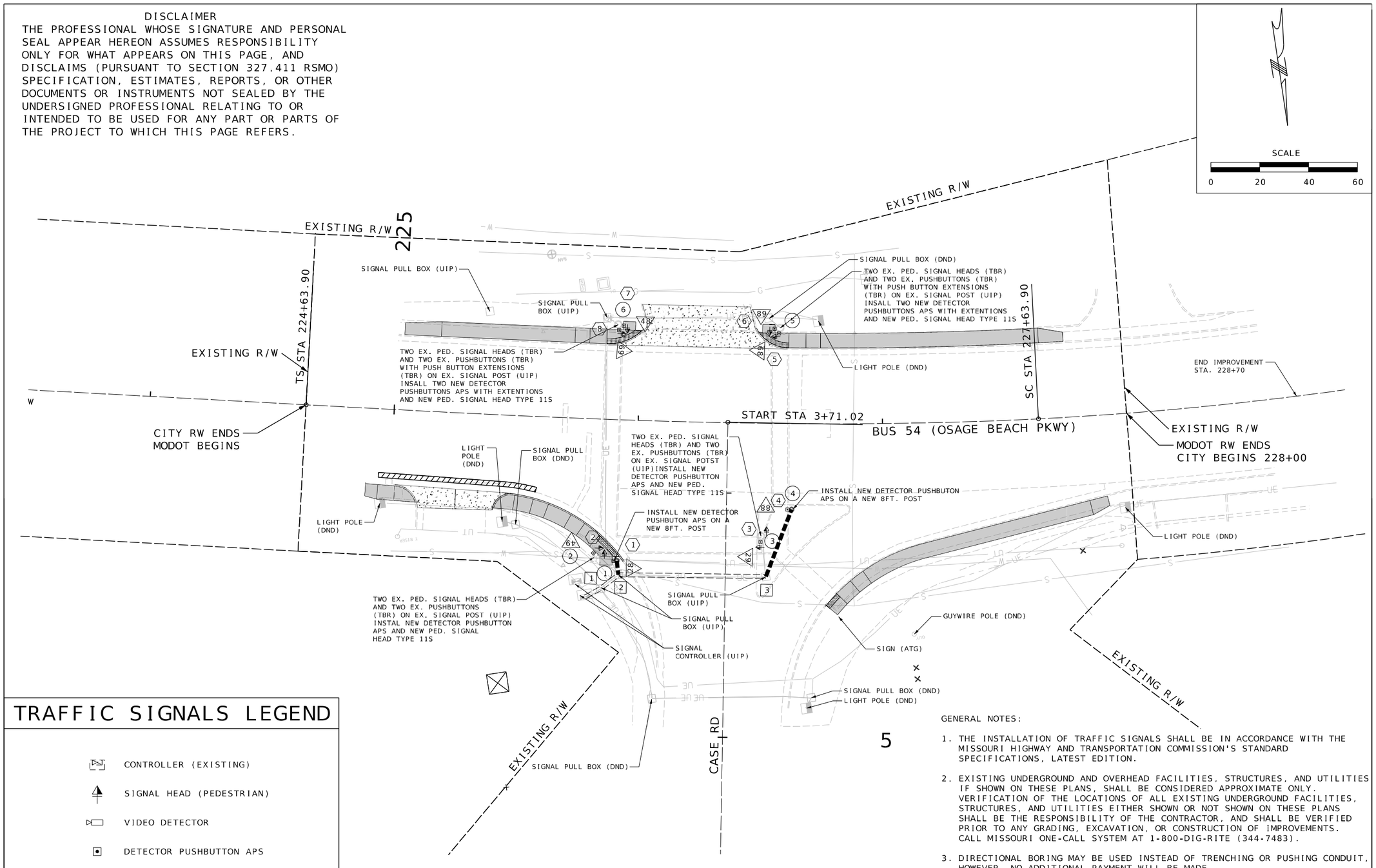

TRAFFIC SIGNALS LEGEND

- CONTROLLER (EXISTING)
- SIGNAL HEAD (PEDESTRIAN)
- VIDEO DETECTOR
- DETECTOR PUSHBUTTON APS
- CONDUIT EXISTING
- CONDUIT TRENCHED

GENERAL NOTES:

1. THE INSTALLATION OF TRAFFIC SIGNALS SHALL BE IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S STANDARD SPECIFICATIONS, LATEST EDITION.
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STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	64

COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

I.F. A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

5720 Oakland Avenue
St. Louis, MO 63110
314.863.5570
CDI ENGINEERING, INC.
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SIGNAL PLAN SHEET
CASE RD
BUS 54(OSAGE BEACH PKWY)
SHEET 19 OF 24

REV.

EFFECTIVE: 07/01/2018

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE, TYPE A | PULL BOX CONCRETE DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | POST TOP MOUNT POST (1) 4 FT. | POST TOP MOUNT POST (1) 8 FT. | POST TOP MOUNT POST (1) 15 FT. | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL ARM LENGTH A | POST TYPE C & CL SIGNAL SPACING B | POST TYPE C & CL SIGNAL SPACING C | POST TYPE C & CL SIGNAL SPACING D | POST TYPE C & CL SIGNAL SPACING D' | POST TYPE C & CL SIGN SPACING B | POST TYPE C & CL SIGN SPACING C | POST TYPE C & CL SIGN SPACING D | POST TYPE C & CL SIGN SPACING D' | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL ARM LENGTH E | POST TYPE B & BL ARM LENGTH K | POST TYPE B & BL LEFT ARM E SIGNAL SPACING F | POST TYPE B & BL LEFT ARM E SIGNAL SPACING G | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H | POST TYPE B & BL LEFT ARM E SIGNAL SPACING H' | POST TYPE B & BL LEFT ARM E SIGN SPACING F | POST TYPE B & BL LEFT ARM E SIGN SPACING G | POST TYPE B & BL LEFT ARM E SIGN SPACING H | POST TYPE B & BL LEFT ARM E SIGN SPACING H' | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING L | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING M | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N | POST TYPE B & BL RIGHT ARM K SIGNAL SPACING N' | POST TYPE B & BL RIGHT ARM K SIGN SPACING L | POST TYPE B & BL RIGHT ARM K SIGN SPACING M | POST TYPE B & BL RIGHT ARM K SIGN SPACING N | POST TYPE B & BL RIGHT ARM K SIGN SPACING N' | POST TYPE B & BL INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
2	1	6			8												
3	4	30			32												
SUBTOTALS					40												
TOTALS					40												

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
					2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
	1	25			54											PUSHBUTTON
	4	110			145											PUSHBUTTON
SUBTOTALS					199											
TOTALS					200											

INTERSECTION BUS 54 & CASE RD

D-37B

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE VARIOUS | STATE MO

DISTRICT CD | SHEET NO. 66

COUNTY VARIOUS

JOB NO. CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.3570
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006604

SIGNAL DETAIL SHEET
CASE RD
BUS 54(OSAGE BEACH PKWY)
SHEET 21 OF 24

REV.

EFFECTIVE 04-01-2018

POWER SUPPLY

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

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

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

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1								
	2								

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

NEMA LOAD SWITCH ASSIGNMENTS (UIP)

1	2	3	4	5	6	7	8	9	10	11	12

SIGNAL SIGNS (4)

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	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		
	D3-1 ***	VAR. X 18			
	D3-1B ***	VAR. X 18			
	R10-3ER	9 X 15	0.9	INCLUDED IN APS PAY ITEM	
	R10-3EL	9 X 15	0.9		
	R10-3EMod	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL		
			TOTAL		

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE					
		DETECTOR PUSHBUTTON APS (4)	PEDESTRIAN PUSH BUTTON EXTENSION	INDUCTION LOOP (2)			VIDEO
				STANDARD	DELAY/ EXTEND *	CALL UNIT *	
8	CASE RD	1	1				
7	BUS 54	1	1				
6	BUS 54	1	1				
5	CASE RD	1	1				
2	CASE RD	1					
1	BUS 54	1					
3	BUS 54	1					
4	CASE RD	1					
TOTAL		8	4				

CENTRAL MASTER CONTROL UNIT (APS) (5)
USE = 1 EA

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

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

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

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

(3) THE CONTRACTOR SHALL PROVIDE AND INSTALL A VEHICLE DETECTION SYSTEM FULLY COVERING ALL DETECTION ZONES SHOWN IN THE PLANS OR AS DETERMINED BY THE ENGINEER. THE METHOD OF VEHICLE DETECTION SHALL COMPLY WITH MODOT'S STANDARDS AND SPECIFICATIONS AND SPECIAL PROVISIONS. ALL EQUIPMENT USED SHALL BE IN ACCORDANCE WITH MODOT'S APPROVED PRODUCTS LIST AND RECEIVE MODOT APPROVAL PRIOR TO INSTALLATION. THE DETECTION SYSTEM WILL BE COMPLETE WITH ALL COSTS INCLUDED.

(4) PEDESTRIAN SIGNS, MOUNTING HARDWARE ARE INCLUDED IN PAY ITEM DETECTOR PUSHBUTTON APS.

(5) CENTRAL MASTER CONTROL UNIT (APS) IS INCLUDED IN THE PAY ITEM FOR DETECTOR PUSHBUTTON APS.

BUS 54 & CASE RD

INTERSECTION

D-37C

STATE OF MISSOURI
TRICIA M. BOHLER NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET WAS SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	67

COUNTY VARIOUS

JOB NO. CD0121

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

5220 Oakland Avenue
St. Louis, MO 63110
314.863.5570

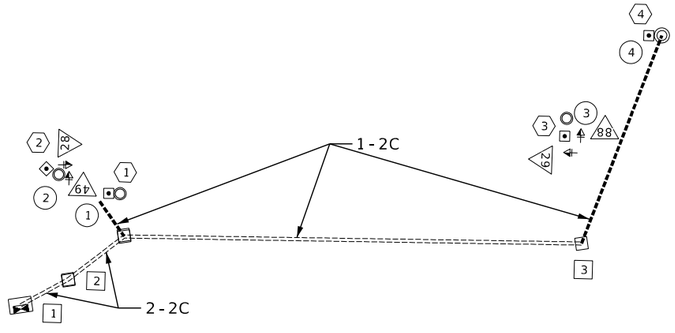
CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SIGNAL DETAIL SHEET
CASE RD
BUS 54(OSAGE BEACH PKWY)
SHEET 22 OF 24

REV.

EFFECTIVE 12-01-17

WIRING DIAGRAM



NOTE:

1. ONLY NEW WIRING RUNS SHOWN. ALL OTHER EQUIPMENT TO USE EXISTING WIRING.
2. CONTRACTOR SHALL VERIFY EXISTING CONDUIT LOCATIONS.

DISCLAIMER

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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
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER

STATE OF MISSOURI
TRICIA M. BOHLER
NUMBER PE-2009149999
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	68

COUNTY: VARIOUS
JOB NO.: CD0121
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)

5220 Oakland Avenue
St. Louis, MO 63110
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CDI CIVIL DESIGN, INC.
Missouri State Certificate of Authority #2002006804

SIGNAL DETAIL SHEET
CASE RD
BUS 54(OSAGE BEACH PKWY)
SHEET 23 OF 24

BUS 54 & CASE RD
INTERSECTION

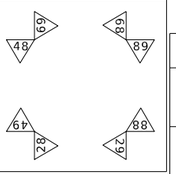
D-37D

REV.

I.F. A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE 12/01/2017

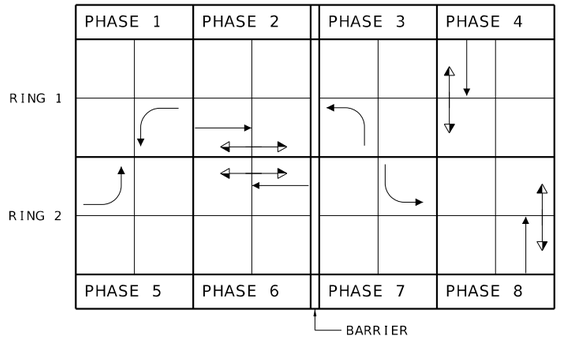
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE - ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø2 / OVERLAP 1	PED Ø4 / OVERLAP 2	PED Ø6 / OVERLAP 3	PED Ø8 / OVERLAP 4
FACE NUMBERS									28 29	48 49	68 69	88 89
SIGNAL INDICATIONS R									DW DW	DW DW	DW DW	DW DW
SIGNAL INDICATIONS Y									FWD FWD	FWD FWD	FWD FWD	FWD FWD
SIGNAL INDICATIONS FYA												
SIGNAL INDICATIONS G									W W	W W	W W	W W
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)									28 29	48 49	68 69	88 89
OVERLAP PARENT PHASES												

FACE NUMBERS
SIGNAL INDICATIONS R
SIGNAL INDICATIONS Y
SIGNAL INDICATIONS FYA
SIGNAL INDICATIONS G
DETECTOR ASSIGNMENTS



RING STRUCTURE

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

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

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

FLASHING OPERATION	
ALL	FR
	FY

CONTROLLER TYPE	UIP

TRAFFIC SIGNAL CONTROL OPERATION		
INTERSECTION OF		
BUS 54	WITH	JEFFRIES RD

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TRICIA M. BOHLER
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DATE PREPARED: 4/10/2024

ROUTE	STATE
VARIOUS	MO
DISTRICT	SHEET NO.
CD	69

COUNTY: VARIOUS
JOB NO.: CD0121
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
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SIGNAL DETAIL SHEET
CASE RD
BUS 54(OSAGE BEACH PKWY)
SHEET 24 OF 24

REV.

D-38A

P:\5XXX\56XX-57XX\5691 - J5S3369 MoDOT Mid MO ADA Bundle Phase 1\28-Trans\CAD\Osage\Project Drawings\069_SG_12_D38A_J5S3369_11.dgn 11:25:58 AM 4/10/2024