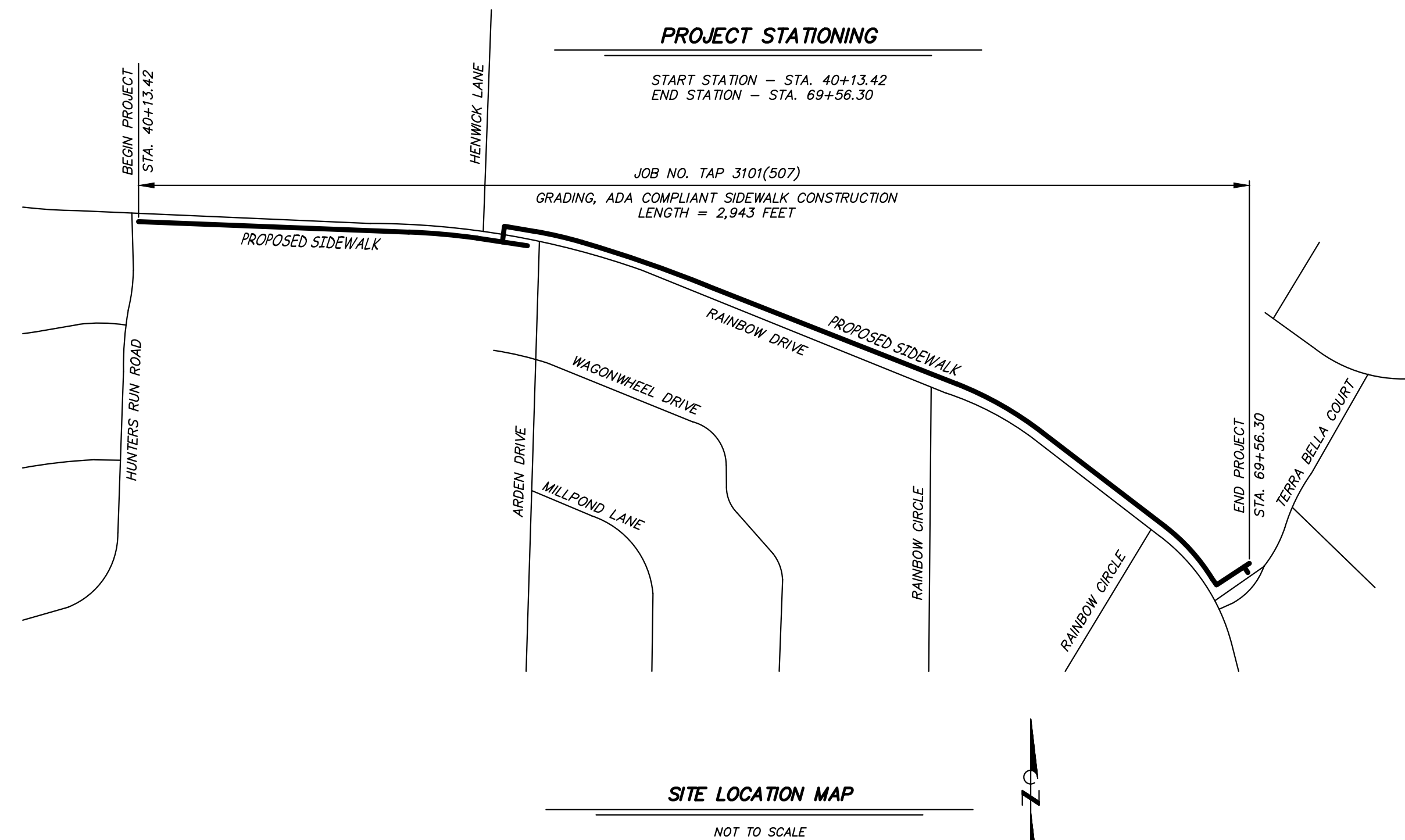


CONSTRUCTION PLANS FOR RAINBOW DRIVE SIDEWALKS IMPROVEMENTS

JEFFERSON CITY, COLE COUNTY, MISSOURI
SECTION 5, T44N, R12W
TAP - 3101(507)

LEGEND

—E—	PROPERTY LINE
—FM—	ELECTRIC LINE
—T—	FORCE MAIN SANITARY SEWER LINE
—FO—	TELECOMMUNICATIONS LINE
—UE—	FIBER OPTIC LINE
—UT—	UNDERGROUND ELECTRIC LINE
—UF—	UNDERGROUND TELECOMMUNICATIONS LINE
—S—	UNDERGROUND FIBER OPTIC LINE
—SS—	SANITARY SEWER LINE
—G—	STORM SEWER LINE
—W—	GAS LINE
—X—	WATER LINE
—	FENCE
—	TREE & BRUSH LINE
—	DRAINAGE SWALE
—	EXISTING CONTOUR
—	ANCHOR
—	IRON
—	R/W MARKER
—	CONTROL POINT
—	CORRUGATED METAL PIPE
—	CORRUGATED PLASTIC PIPE
—	ELECTRIC METER
—	ELECTRICAL PULLBOX
—	FLARED END SECTION
—	FIRE HYDRANT
—	FLOW LINE
—	FIBER OPTIC MARKER
—	FLAGPOLE
—	FIBER OPTIC PULLBOX
—	IRRIGATION PULLBOX
—	IRRIGATION WATER VALVE
—	LIGHT STANDARD
—	MAILBOX
—	RAMP
—	REINFORCED CONCRETE PIPE
—	FORCE MAIN SANITARY SEWER VALVE
—	TRAFFIC SIGNAL POLE
—	TRAFFIC SIGNAL PULLBOX
—	TELECOMMUNICATIONS
—	TELECOM MARKER
—	TELECOMMUNICATIONS PEDESTAL
—	TELECOM PULLBOX
—	TOP OF WALL
—	UTILITY POLE
—	WATER METER
—	WATER VALVE
—	FINISH CONTOUR
—	CLEARING/GRADING LIMITS
—	PROPOSED RIGHT-OF-WAY
50.0	TOP OF CURB ELEVATION
49.5	TOP OF PAVEMENT ELEVATION
49.5	FINISH GRADE ELEVATION
[Pattern]	STANDARD DUTY CONCRETE
[Pattern]	CONCRETE SIDEWALK
L	LANDING
R	RAMP
T	TRANSITION
[Pattern]	PROPOSED PERMANENT SIDEWALK EASEMENT
[Pattern]	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
[Pattern]	PROPOSED PERMANENT DRAINAGE EASEMENT



FLOODPLAIN NOTE

THIS PROPERTY IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN BY FLOOD INSURANCE RATE MAP NUMBER 29051C0109E, DATED NOVEMBER 11, 2012.

UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAN, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD. UNDERGROUND UTILITY SERVICES TO BUILDINGS WERE NOT LOCATED.

- WATER**
PUBLIC WATER SUPPLY DISTRICT NO. 1
4346 RAINBOW DRIVE
JEFFERSON CITY, MISSOURI 65109
CONTACT: KEITH WELCH 573-893-2848
- ELECTRIC**
AMEREN MISSOURI
1310 INDUSTRIAL DRIVE
JEFFERSON CITY, MISSOURI 65101
CONTACT: MARK BRANDT 573-681-7550
- GAS**
AMEREN MISSOURI
1310 INDUSTRIAL DRIVE
JEFFERSON CITY, MISSOURI 65101
CONTACT: MARK BRANDT 573-681-7550
- TELECOMMUNICATIONS**
BRIGHTSPEED
3546 N. TEN MILE DRIVE
JEFFERSON CITY, MISSOURI 65101
CONTACT: TONJIA BALDWIN TONJIA.BALDWIN@BRIGHTSPEED.COM
- MEDIACOM**
1922 SOUTHRIDGE DRIVE
JEFFERSON CITY, MISSOURI 65101
CONTACT: DERRICK HAMILTON DHAMILTON1@MEDIACOM.CC.COM
- SANITARY SEWER**
CITY OF JEFFERSON
DEPARTMENT OF COMMUNITY DEVELOPMENT
320 EAST McCARTY STREET
JEFFERSON CITY, MISSOURI 65101
CONTACT: ERIC SEAMAN 573-634-6410
- STORM SEWER**
CITY OF JEFFERSON
DEPARTMENT OF COMMUNITY DEVELOPMENT
320 EAST McCARTY STREET
JEFFERSON CITY, MISSOURI 65101
CONTACT: DON FONTANA 573-634-6410
- ELECTRIC**
THREE RIVERS ELECTRIC COOPERATIVE
4800 STATE ROUTE E
JEFFERSON CITY, MISSOURI 65101
CONTACT: SCOTT SCHULTE 573-644-9062
- TELECOMMUNICATIONS**
SUDDENLINK
1424 W. ASHLEY ROAD SUITE A
BOONVILLE, MO 65233
888-822-5151
- MoDOT**
MoDOT - DISTRICT 5
P.O. BOX 718, 1511 MISSOURI BLVD.
JEFFERSON CITY, MISSOURI 65102
CONTACT: JEROME "JERRY" GEORGE 573-690-3347



SURVEY CONTROL POINTS

MODIFIED STATE PLANE COORDINATES
NAD 83, MISSOURI CENTRAL ZONE, NAVD 88, U.S. SURVEY FEET

POINT #	NORTH	EAST	ELEVATION	DESCRIPTION
CP504	1003085.30	1706508.54	804.98	IRON
CP505	1003638.16	1705911.78	812.42	IRON
CP507	1003829.71	1705430.35	794.85	DRILL HOLE
CP508	1004075.41	1704735.69	825.29	IRON
CP509	1004055.89	1704288.50	810.12	IRON
CP510	1004128.10	1703763.78	796.69	IRON
CP2943	1004114.26	1704012.28	797.73	DRILL HOLE

BENCH MARK

BM - MISSOURI DEPARTMENT OF TRANSPORTATION VRS NETWORK.

SHEET INDEX

C0.01	COVER
C0.02	GENERAL NOTES
C0.03	TYPICAL SECTIONS
C0.04-C0.05	SUMMARY OF QUANTITIES
V1.01-V1.04	BOUNDARY & TOPOGRAPHIC SURVEY
C1.01-C1.03	SITE PLAN
C2.01-C2.03	SIDEWALK PROFILES
C3.01-C3.04	RIGHT-OF-WAY PLANS
C4.01	DETAILS
C5.01	TEMPORARY TRAFFIC CONTROL PLAN

COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS
 JEFFERSON CITY, COLE COUNTY, MISSOURI



Kelly A. Lohsandt
PROFESSIONAL ENGINEER
PE-2021032813

Date
AUGUST 20, 2025

Revised

Design: RE Drawn: MJS

COVER

Sheet

C0.01

I:\192-168-0-99\PROJECTS\GENERAL PROJECTS\16278-COLE-CO-RAINBOW-DR-SIDEWALK-DESIGN\16278-SITE PLAN.DWG 11/4/2025

SEQUENCE OF EVENTS

1. PRIOR TO CONSTRUCTION, COORDINATE AND HAVE A PRE-CONSTRUCTION MEETING REGARDING SWPPP TRAINING WITH ANYONE INVOLVED IN LAND DISTURBANCE ACTIVITIES FOR THE PROJECT.
2. CONTRACTOR SHALL DETERMINE ALL UTILITY FIELD LOCATES AS NECESSARY.
3. INSTALL ALL INITIAL PERIMETER EROSION AND SEDIMENT CONTROL PER PLAN.
4. UTILIZE ALL EXISTING PAVEMENT AS LONG AS PRACTICAL TO MINIMIZE DISTURBED GROUND EXPOSED TO EROSION.
5. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED, MULCHED, AND WATERED, EXCEPT AS PRECLUDED BY SNOW COVER. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL THEREAFTER. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL CEASE FOR 12 MONTHS OR MORE SHALL BE PERMANENTLY SEEDED AND MULCHED.
6. FINALIZE PAVEMENT SUBGRADE PREPERATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. INSTALL BASE MATERIAL AS REQUIRED FOR PAVED AREAS.
8. COMMENCE PAVEMENT CONSTRUCTION, REMOVE INLET PROTECTION AROUND INLETS NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. INSTALL PAVEMENT AND SIDEWALKS. REMOVE CONSTRUCTION ENTRANCE ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THAT AREA (PAVE THIS AREA LAST).
9. COMPLETE ALL FINAL GRADING, TOPSOIL PLACEMENT, AND SEEDING IN ALL DISTURBED AREAS. EXCESS TOPSOIL SHALL BE WASTED ONSITE AS DIRECTED BY OWNER.
10. REMOVE ALL SEDIMENT, TRASH AND DEBRIS FORM SEWERS, AND STRUCTURES UPON SUBSTANTIAL COMPLETION. USE A VAC TRUCK TO CLEANOUT ALLSTORM STRUCTURES ONSITE. REMOVED SEDIMENT SHALL BE HAULED OFFSITE.
11. INSTALL SITE LANDSCAPING PER OWNER.
12. REMOVE ALL SEDIMENT AND REGRADE DETENTION BASIN TO MATCH PLAN GRADES. RESEED PER SPECIFICATION.
13. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WHEN DISTURBED AREAS ARE STABILIZED.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. CONSTRUCTION SHALL COMPLY WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND MISSOURI STANDARD PLANS IN EFFECT AS OF THE TIME OF LETTING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL IDENTIFIED PROPERTY CORNERS, LAND SURVEY CORNERS, AND ACCESSORIES. THE CONTRACTOR SHALL CAUSE THE CORNERS AND ACCESSORIES TO BE REFERENCED BY A LICENSED LAND SURVEYOR, AND ANY SUCH CORNER OR ACCESSORIES DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE RESET BY THE SURVEYOR AT THE ORIGINAL LOCATION, AND FILE THE RESTORATIONS AND MONUMENT DOCUMENTS AS THE LAW REQUIRES.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEERING SURVEYS AND SERVICES FOR REVIEW AND APPROVAL FOR ALL MATERIALS BEFORE ORDERING.
5. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF SIDEWALK, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
7. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS IN WRITING 30 DAYS PRIOR TO CONSTRUCTION.
8. ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, PAVEMENT MARKING, PAVEMENT, CURBS, TRUNCATED DOMES, FENCING, LANDSCAPING, IRRIGATION, ETC. EITHER DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITIONS BY THE CONTRACTOR.
9. CONTRACT DOCUMENTS FOR THIS PROJECT SHALL INCLUDE THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTIONS AND THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION.

GRADING AND STORM SEWER CONSTRUCTION NOTES

1. ALL STORM SEWER PIPES AND INLETS SHALL MEET HEAVY DUTY TRAFFIC (HS20) LOADING AND BE INSTALLED ACCORDINGLY.
2. REINFORCED CONCRETE PIPE (RCP) SHALL BE INSTALLED PER THE "EMBEDMENT OF RCP STORM SEWER PIPE" DETAIL. PIPE CLASS SHALL BE APPROPRIATE TO DEPTH AND BEDDING MATERIAL AS SHOWN IN SCHEDULE.
3. ALL RCP PIPE JOINTS SHALL BE SOIL TIGHT PER CURRENT MODOT SPECIFICATIONS SECTION 726.3.1.
4. ALL HDPE PIPE SHALL BE ADS N-12 ST SOIL TIGHT, SMOOTH INTERIOR PIPE OR APPROVED EQUAL. INSTALLATION SHALL FOLLOW THE "EMBEDMENT OF PLASTIC STORM SEWER PIPE" DETAIL.
5. PVC PIPE MAY BE USED IN LIEU OF HDPE FOR DIAMETERS LESS THAN 15". PVC PIPE SHALL BE SDR 35 OR GREATER, AS REQUIRED BY DEPTH OR AS NOTED IN THESE PLANS.
6. CONTRACTOR SHALL ADJUST ALL GRATES, MANHOLES, VALVE BOXES, ETC. TO MATCH FINISH GRADES, AS REQUIRED.
7. ALL STRUCTURE CONNECTIONS SHALL BE WATERTIGHT.
8. ALL CONCRETE STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED CONCRETE INVERT FROM INVERT IN TO INVERT OUT.
9. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE FLUSH WITH FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER". TOP OF BOXES SHALL BE SLOPED TO MATCH PAVEMENT GRADE.
10. PIPE LENGTHS ARE GIVEN FROM CENTER OF STRUCTURE OR DOWNSTREAM END OF FLARED END SECTIONS.
11. ALL FLARED END SECTIONS FOR CONCRETE PIPE SHALL BE REINFORCED PRECAST CONCRETE. ALL FLARED END SECTIONS FOR PLASTIC PIPE SHALL BE GALVANIZED METAL UNLESS OTHERWISE NOTED.
12. ALL SITES USED FOR IMPORTING OR EXPORTING OF FILL MATERIAL SHALL HAVE AN ACTIVE MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND DISTURBANCE PERMIT, AS REQUIRED.
13. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS, TREES AND BRUSH, AND OTHER MATERIAL CREATED AS A RESULT OF CONSTRUCTION. MATERIAL SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. BURNING ON SITE SHALL BE ALLOWED BY PERMIT ONLY.
14. CONTRACTOR SHALL REMOVE ALL STUMPS BY EXCAVATING TO INCLUDE REMOVAL OF ASSOCIATED ROOT SYSTEM.
15. CONTRACTOR SHALL NOT ADVANCE TRENCH EXCAVATION BEYOND AMOUNT THAT CAN ACCOMMODATE PIPE INSTALLATION AND BACKFILLING AT THE END OF EACH DAY.
16. ENGINEERED FILL SHOULD BE FREE OF FROZEN SOIL, ORGANICS, RUBBISH, LARGE ROCKS, WOOD, OR OTHER DELETERIOUS MATERIAL. COHESIVE FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY AND BE WITHIN -2 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT AS DESCRIBED BY ASTM D698. GRANULAR FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY. THE MOISTURE CONTENT SHOULD BE HIGH ENOUGH TO PROVIDE FOR PROPER COMPACTION BUT LOW ENOUGH TO PREVENT UNDUE PUMPING. PLACE FILL MATERIAL IN LOOSE LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS.
17. ROCKS AND STONES THAT EXCEED THE THICKNESS OF THE LOOSE LIFT FILL LAYER SHOULD BE REMOVED AND DISPOSED OF OFF THE IMMEDIATE CONSTRUCTION AREA.
18. FILLS PLACED IN AREAS WHERE THE NATURAL SLOPE IS GREATER THAN 5H:1V (HORIZONTAL TO VERTICAL) SHOULD BE BENCHED INTO THE EXISTING GRADE TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND ENGINEERED FILL. BENCHES SHOULD BE LEVEL AND SLIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT.
19. ALL NEW UTILITY TRENCHES SHOULD BE BACKFILLED IN ACCORDANCE WITH APPROPRIATE CONTROLLED ENGINEERED FILL SPECIFICATIONS.
20. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS.
21. CONTRACTOR SHALL PLACE STOCKPILED TOPSOIL FROM SITE IN ALL LANDSCAPE AREAS TO A MINIMUM DEPTH OF OF 6", UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS. ANY EXCESS TOPSOIL SHALL BE DISPOSED OF ONSITE PER OWNER.

STORM WATER POLLUTION PREVENTION PLAN NOTES

1. CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. A COPY OF THIS PLAN, SWPPP, AND ALL PERMITS SHALL REMAIN ON SITE THROUGHOUT CONSTRUCTION.
2. CONTRACTORS ARE REQUIRED TO SUBMIT TO CITY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE SWPPP ON A MONTHLY BASIS.
3. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVAL HAS BEEN RECEIVED FROM ALL GOVERNING AUTHORITIES.
4. IMMEDIATELY UPON COMPLETION OF FINISH GRADING IN EACH AREA, ALL LANDSCAPING AREAS SHALL BE STABILIZED PER PLANS AND/OR SPECIFICATIONS.
5. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED IN THE SWPPP.
6. SITE INSPECTION SHOULD OCCUR ON A REGULAR SCHEDULE AND WITHIN 24 HOURS OF A STORM EVENT OF 0.25 INCHES OR GREATER. REGULARLY SCHEDULED INSPECTION SHALL BE A MINIMUM OF ONCE EVERY 7 CALENDAR DAYS. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT.
7. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
8. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
10. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
11. ALL ROLLED EROSION CONTROL MATS, BIONETS, BLANKETS, ETC. SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. INSTALLATION SHALL RESULT IN A PRODUCT THAT IS TIGHTLY SECURED TO THE GROUND THAT FORCES RUNOFF TO DRAIN OVER, NOT UNDER, THE PRODUCT. GRASS SHALL BE PLANTED PRIOR TO PRODUCT PLACEMENT SO IT WILL GROW THRU THE BLANKET. ALL ASPECTS OF THE PRODUCT SHALL BE FIRMLY SECURED TO THE GROUND SO IT CAN BE MOWED OVER WITHOUT GETTING TANGLED IN THE MOWER.
12. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS, TREES & BRUSH AND OTHER MATERIAL CREATED AS A RESULT OF THE CONSTRUCTION WORK AND THE SITE SHALL BE RETURNED TO ITS ORIGINAL CONDITION.
13. ALL PERIMETER LANDSCAPED AREAS SHALL BE GRASS COVERED.
14. IN ORDER TO TERMINATE A MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) STATE OPERATING PERMIT, THE CONTRACTOR SHALL SUBMIT A REQUEST FOR TERMINATION OF OPERATING PERMIT FORM TO MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHOULD BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA. A COPY OF THE REQUEST FOR TERMINATION OF OPERATING PERMIT FORM SHALL BE SUBMITTED TO THE CITY OF COLUMBIA AT WHICH TIME THE CITY WILL REMOVE THE PROJECT FROM ITS INSPECTION SCHEDULE.
15. THE SITE CONTRACTOR SHALL INCLUDE MAINTENANCE OF ALL BMP'S AS PART OF THEIR CONTRACT AND SHALL BE RESPONSIBLE FOR THE PROJECT UNTIL THE NPDES PERMIT IS TERMINATED.

HAZARDOUS SUBSTANCE NOTE

1. SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
2. ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.
3. THE APPLICANT SHALL NOTIFY BY TELEPHONE AND IN WRITING THE DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL PROGRAM, POST OFFICE BOX 176, JEFFERSON CITY, MO 65102, 1-800-361-4827, OF ANY OIL SPILLS OR IF HAZARDOUS SUBSTANCES ARE FOUND DURING THE PROSECUTION OF WORK UNDER THIS PERMIT.

COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS
 JEFFERSON CITY, COLE COUNTY, MISSOURI

ESS
Engineering Surveys & Services
 DELIVERING YOUR VISION™
 1113 Fay Street, Columbia, MO 65201
 573 - 448 - 2646
 802 El Dorado Drive, Jefferson City, MO 65101
 573-636-3303
 1775 West Main Street, Sedalia, MO 65101
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 www.ess-inc.com
 MO Engineering Corp. # 2004005018

8/20/2025

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 PROFESSIONAL ENGINEER
 NUMBER
 PE-2021032813

Kelly A. Lohsandt

KELLY A. LOHSANDT
 PROFESSIONAL ENGINEER
 PE-2021032813

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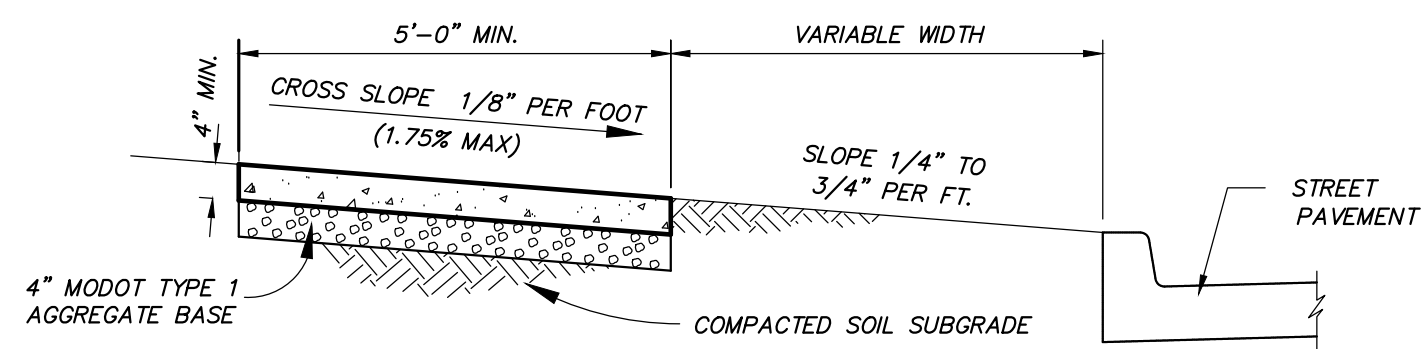
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GENERAL NOTES
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CONSTRUCTION PLANS

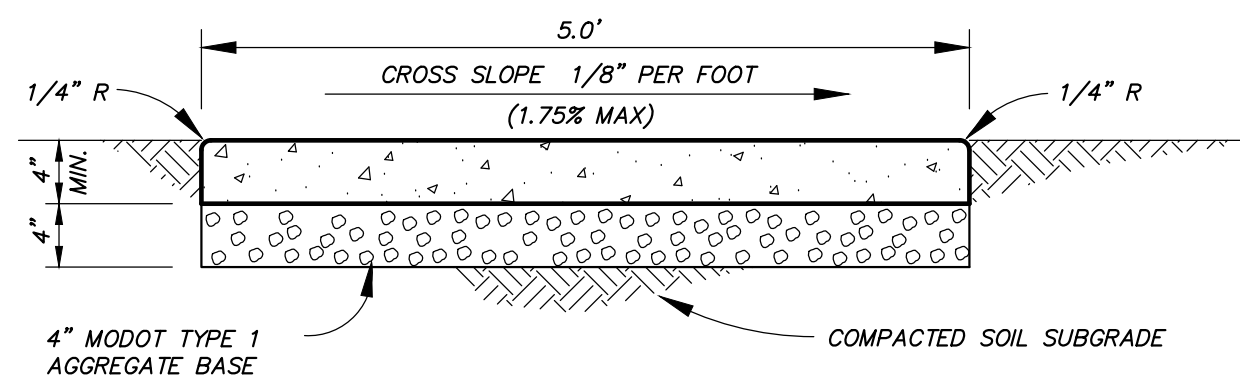
**COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS**
JEFFERSON CITY, COLE COUNTY, MISSOURI



**RAINBOW DRIVE
CONCRETE SIDEWALK WITH GRASS PARKWAY**

STA. 40+67.47 TO 52+12.24
STA. 52+19.50 TO 58+65.76
STA. 58+71.95 TO 60+03.74
STA. 60+13.67 TO 69+32.29

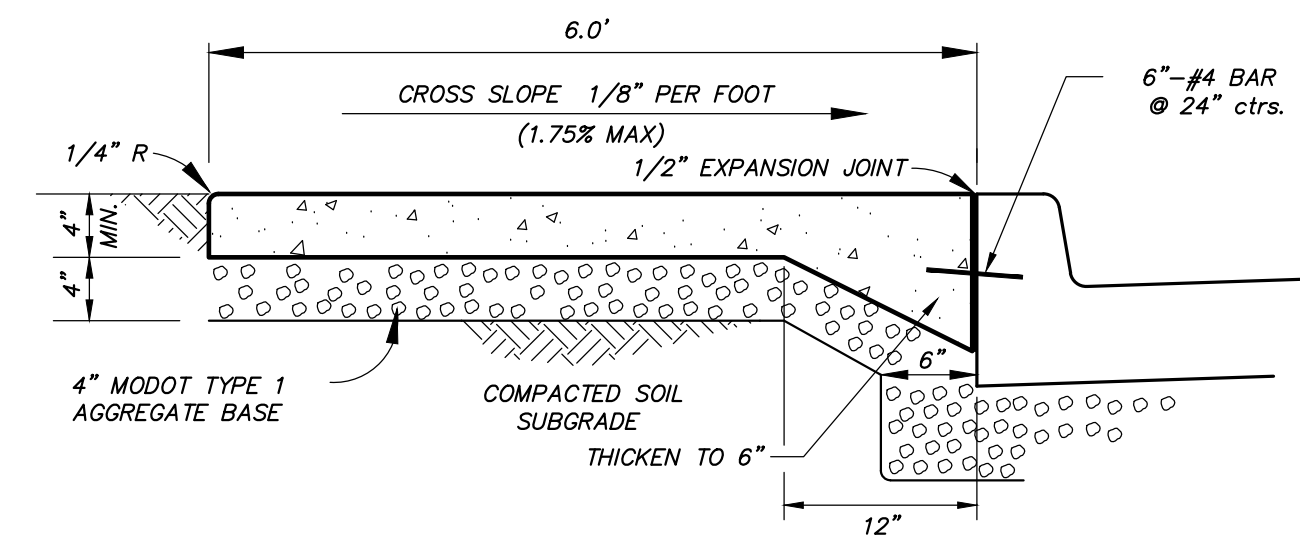
NOT TO SCALE



**RAINBOW DRIVE
CONCRETE SIDEWALK**

STA. 69+32.24 TO STA. 69+42.30

NOT TO SCALE



**RAINBOW DRIVE
CONCRETE SIDEWALK AT BACK OF CURB**

STA. 52+12.24 TO STA. 52+19.50
STA. 58+65.76 TO STA. 58+71.95
STA. 60+03.74 TO STA. 60+13.67

NOT TO SCALE

8/20/2025



Kelly A. Lohsandt

KELLY A. LOHSANDT
PROFESSIONAL ENGINEER
PE-2021032813

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Date
AUGUST 20, 2025

Revised

Design: RE Drawn: MJS

TYPICAL SECTIONS

Sheet

C0.03

CONSTRUCTION PLANS

CONCRETESIDEALKS									
STATION	STATION	ROUTE	LOCATION	4" SIDEWALK (SY)	CURB RAMP (SY)	4" TYPE 1 AGGR (SY)	ADA LINEAR GRADING (LF)	TRUNCATED DOME (SF)	REMARKS
40+72.02	40+83.36	RAINBOWDRIVE	R		10.2	10.2	0.11	15	
40+83.36	42+67.37	RAINBOWDRIVE	R	118		118	1.84		
42+67.37	43+02.31	RAINBOWDRIVE	R		6.7	6.7	0.35		
43+02.31	43+16.27	RAINBOWDRIVE	R		6.7	6.7	0.14		
43+34.12	44+12.30	RAINBOWDRIVE	R	43.2		43.2	0.78		
44+32.33	45+02.89	RAINBOWDRIVE	R	39.2		39.2	0.71		
45+29.14	46+12.78	RAINBOWDRIVE	R	46.5		46.5	0.84		
46+33.24	46+70.16	RAINBOWDRIVE	R	20.4		20.4	0.37		
46+82.09	47+96.52	RAINBOWDRIVE	R	63		63	1.14		
48+16.75	48+72.71	RAINBOWDRIVE	R	30.9		30.9	0.56		
48+86.30	49+49.10	RAINBOWDRIVE	R	34.5		34.5	0.63		
49+49.10	49+61.18	RAINBOWDRIVE	R		9	9	0.12	10	
49+56.41	49+68.31	RAINBOWDRIVE	L		8.9	8.9	0.12	10	
49+68.31	62+72.72	RAINBOWDRIVE	L	738.9		738.9	13.04		
63+17.74	63+32.83	RAINBOWDRIVE	L		8.7	8.7	0.15		
63+32.83	64+24.93	RAINBOWDRIVE	L	52.9		52.9	0.92		
64+24.93	64+37.80	RAINBOWDRIVE	L		7.1	7.1	0.13		
64+61.80	64+84.59	RAINBOWDRIVE	L	12.4		12.4	0.23		
65+43.84	65+98.17	RAINBOWDRIVE	L	31.1		31.1	0.54		
65+98.17	66+19.76	RAINBOWDRIVE	L		14.1	14.1	0.22		
66+98.41	67+15.50	RAINBOWDRIVE	L	7.2		7.2	0.17		
67+50.04	68+72.44	RAINBOWDRIVE	L	72.2		72.2	1.22		
68+91.10	69+32.29	RAINBOWDRIVE	L	23.7		23.7	0.41		
69+32.29	69+56.30	TERRA BELLA COURT	L	50.2	15.9	66.1	0.24	10	
TOTALS				1384	87	1472	25	45	

REMOVAL OF IMPROVEMENTS						
STATION	ROUTE	LOCATION	DRIVEWAY (SY)	FIRE HYDRANT (EACH)	RETAINING WALL (EACH)	CURB AND GUTTER (LF)
40+42.35	RAINBOWDRIVE	R	73			
40+69.27	RAINBOWDRIVE	R				8
42+85.54	RAINBOWDRIVE	R	39			
43+25.28	RAINBOWDRIVE	R	19			
44+22.56	RAINBOWDRIVE	R	22			
45+15.65	RAINBOWDRIVE	R	38			
45+89.57	RAINBOWDRIVE	R		1		
46+22.95	RAINBOWDRIVE	R	32			
46+76.04	RAINBOWDRIVE	R	20			
48+06.61	RAINBOWDRIVE	R	20			
48+79.46	RAINBOWDRIVE	R	26			
49+58.78	RAINBOWDRIVE	R				6
49+58.78	RAINBOWDRIVE	L				6
62+94.96	RAINBOWDRIVE	L				71
64+49.87	RAINBOWDRIVE	L	23			36
64+84.49	RAINBOWDRIVE	L				6
65+14.22	RAINBOWDRIVE	L	84			
65+44.80	RAINBOWDRIVE	L				6
66+20.25	RAINBOWDRIVE	L				8
66+60.30	RAINBOWDRIVE	L	74			
67+06.25	RAINBOWDRIVE	L				23
67+30.18	RAINBOWDRIVE	L	35			
67+50.00	RAINBOWDRIVE	L				8
69+41.90	TERRA BELLA COURT	L			1	
	TERRA BELLA COURT	L				30
TOTALS					1 LUMP SUM	

PAVED APPROACHES						
STATION	ROUTE	LOCATION	8" PAVED APPROACH (SY)	7" PAVED APPROACH (SY)	4" TYPE 1 AGGR (SY)	REMARKS
40+42.35	RAINBOWDRIVE	R	73		0.28	73
42+85.54	RAINBOWDRIVE	R		39	0.21	39
43+25.28	RAINBOWDRIVE	R		19	0.18	19
44+22.56	RAINBOWDRIVE	R		22	0.2	22
45+15.65	RAINBOWDRIVE	R		38	0.26	38
46+22.95	RAINBOWDRIVE	R		32	0.2	32
46+76.04	RAINBOWDRIVE	R		20	0.12	20
48+06.61	RAINBOWDRIVE	R		20	0.2	20
48+79.46	RAINBOWDRIVE	R		26	0.13	26
62+94.96	RAINBOWDRIVE	L	54		0.46	54
64+49.87	RAINBOWDRIVE	L	32		0.24	32
65+14.22	RAINBOWDRIVE	L	84		0.58	84
66+60.30	RAINBOWDRIVE	L	74		0.76	74
67+30.18	RAINBOWDRIVE	L	35		0.31	35
TOTALS			352	216	4	568

SIGNS					
STATION	LOCATION	2" PSST POST (12 GA)	CONCRETE POST ANCHOR	SH-FLAT SHEET	REMARKS
		LF	EACH	SF	
49+50.00	R	12	1	6	INSTALL NEWSIGN
49+66.76	L	12	1	6	INSTALL NEWSIGN
TOTAL	TOTAL	24	2	12	

SEEDING AND MULCH		
STATION	COOL SEASON (ACRE)	MULCH (ACRE)
	40+72.02 - 69+56.30	1.1
TOTAL	1.1	1.1

CONCRETE CURB AND GUTTER						
STATION	STATION	ROUTE	LOCATION	CURB (FT)	4" TYPE 1 AGGR (SY)	REMARKS
40+69.27	40+83.19	RAINBOWDRIVE	R	26	5.8	
49+49.10	49+68.26	RAINBOWDRIVE	R	33	7.3	
49+56.41	49+68.31	RAINBOWDRIVE	L	31	6.9	
62+72.72	63+17.74	RAINBOWDRIVE	L	21	4.6	
64+32.39	64+67.31	RAINBOWDRIVE	L	13	2.9	
66+98.41	67+15.50	RAINBOWDRIVE	L	23	5.1	
TOTALS				147	33	

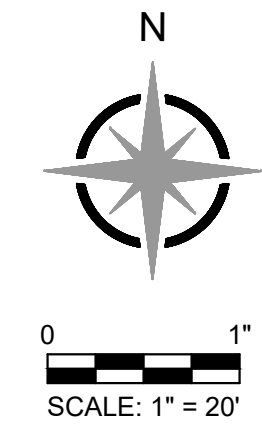
CULVERT SCHEDULE								
STATION	GROUP A PIPE			F.E.S			ROCK LINING (CY)	REMARKS
	12" (FOOT)	18" (FOOT)	24" (FOOT)	12" (EACH)	18" (EACH)	24" (EACH)		
27+00.86		5			1		5.4	
TOTAL	0	5	0	0	1	0	5.4	

EROSION AND SEDIMENT CONTROL							
STATION	STATION	ROUTE	LOCATION	SILT FENCE (LF)	CURB INLET CHECK (EACH)	SEDIMENT REMOVAL (CY)	REMARKS
40+72.60	42+74.40	RAINBOWDRIVE	R	198	2	22	
42+91.41	43+16.28	RAINBOWDRIVE	R	25		2.5	
54+85.08	56+83.48	RAINBOWDRIVE	L	202		20	
56+57.48	58+08.47	RAINBOWDRIVE	L		3	3	
62+24.57	64+74.76	RAINBOWDRIVE	L	241		24	
TOTALS				666	5	71.5	

PAVEMENT MARKING SCHEDULE		
STATION	24" WHITEMARKING (FOOT)	REMARKS
	49+58.78	42
TOTAL	42	

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CONSTRUCTION PLANS



**COLE COUNTY TAP - 3101(507)
 RAINBOW DRIVE
 SIDEWALK IMPROVEMENTS**
 JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025

 Kelly A. Lohsandt
 KELLY A. LOHSANDT
 PROFESSIONAL ENGINEER
 PE-2021032813

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AUGUST 20, 2025

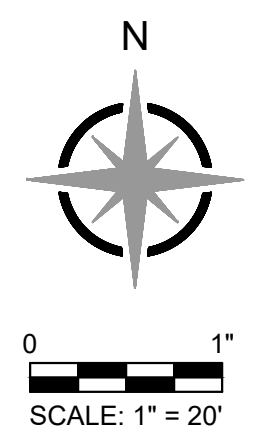
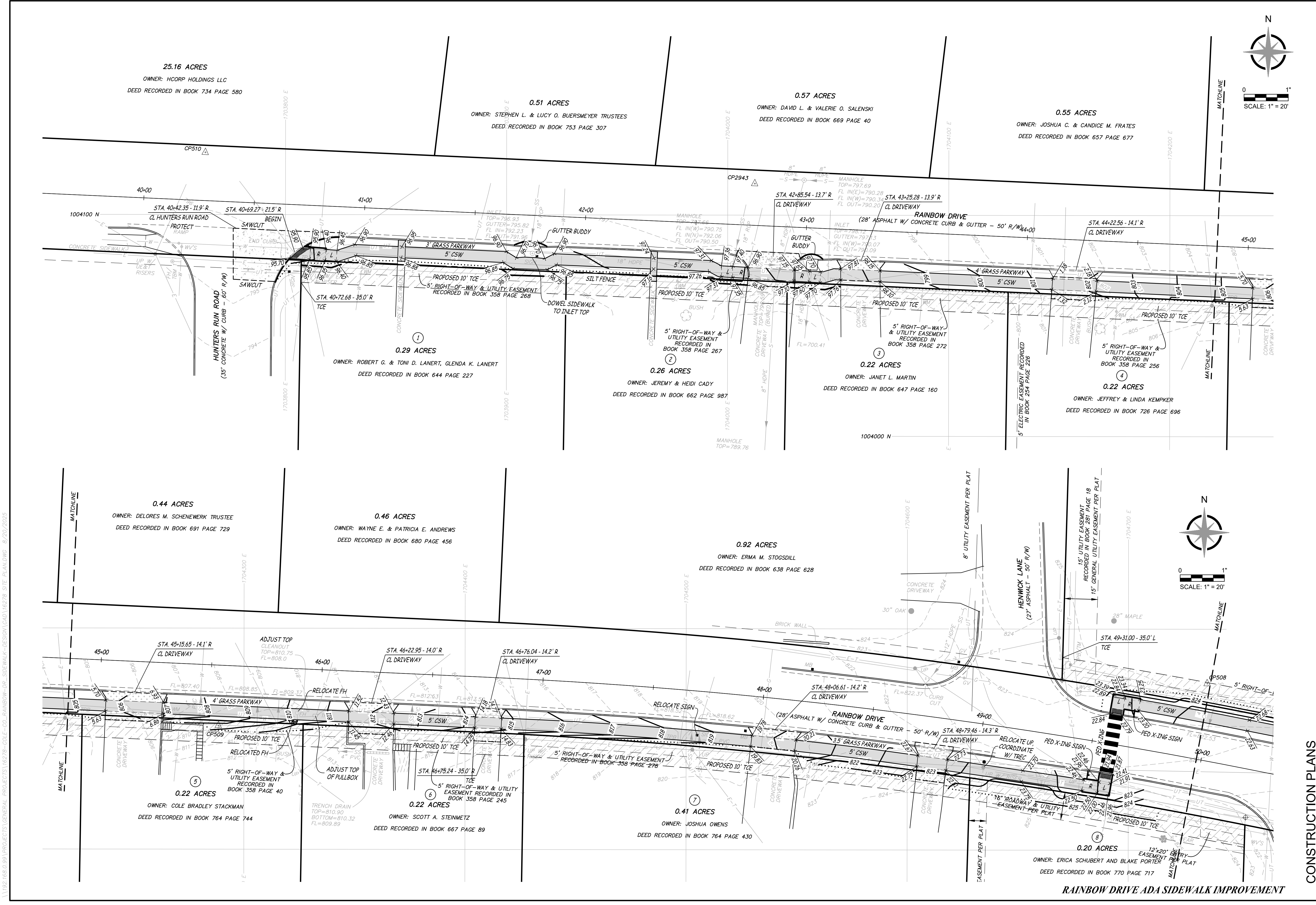
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SITE PLAN

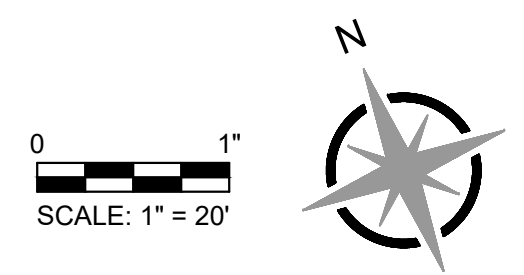
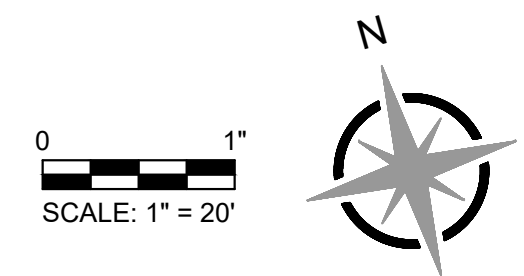
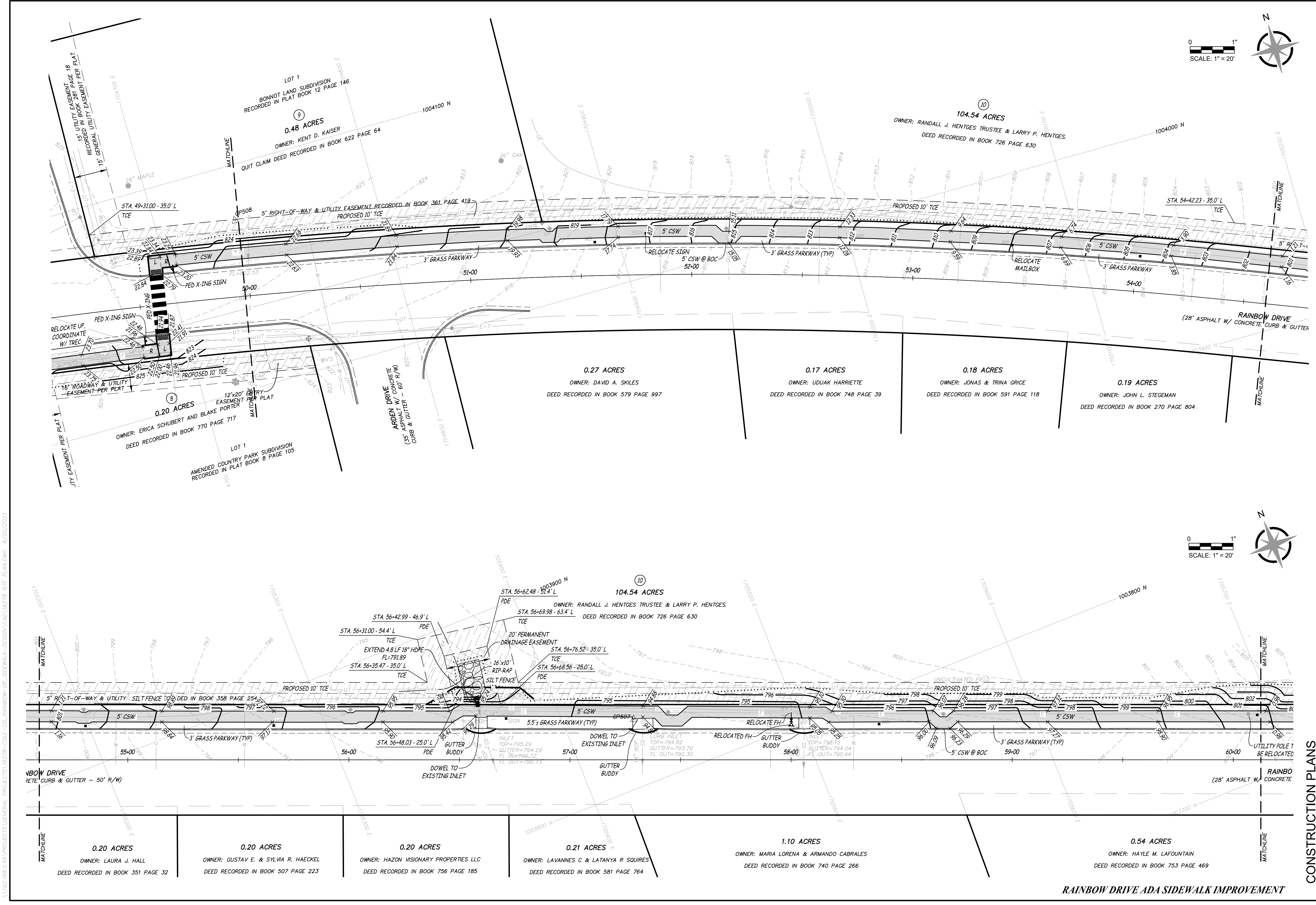
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CONSTRUCTION PLANS
 ES&S PROJECT NO. 16278



RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT

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**COLE COUNTY TAP - 3101(507)
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 JEFFERSON CITY, COLE COUNTY, MISSOURI

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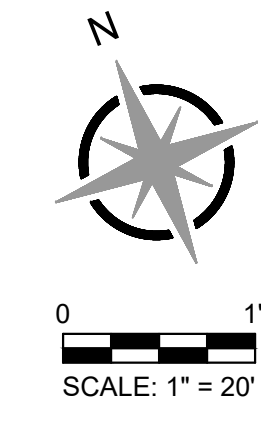
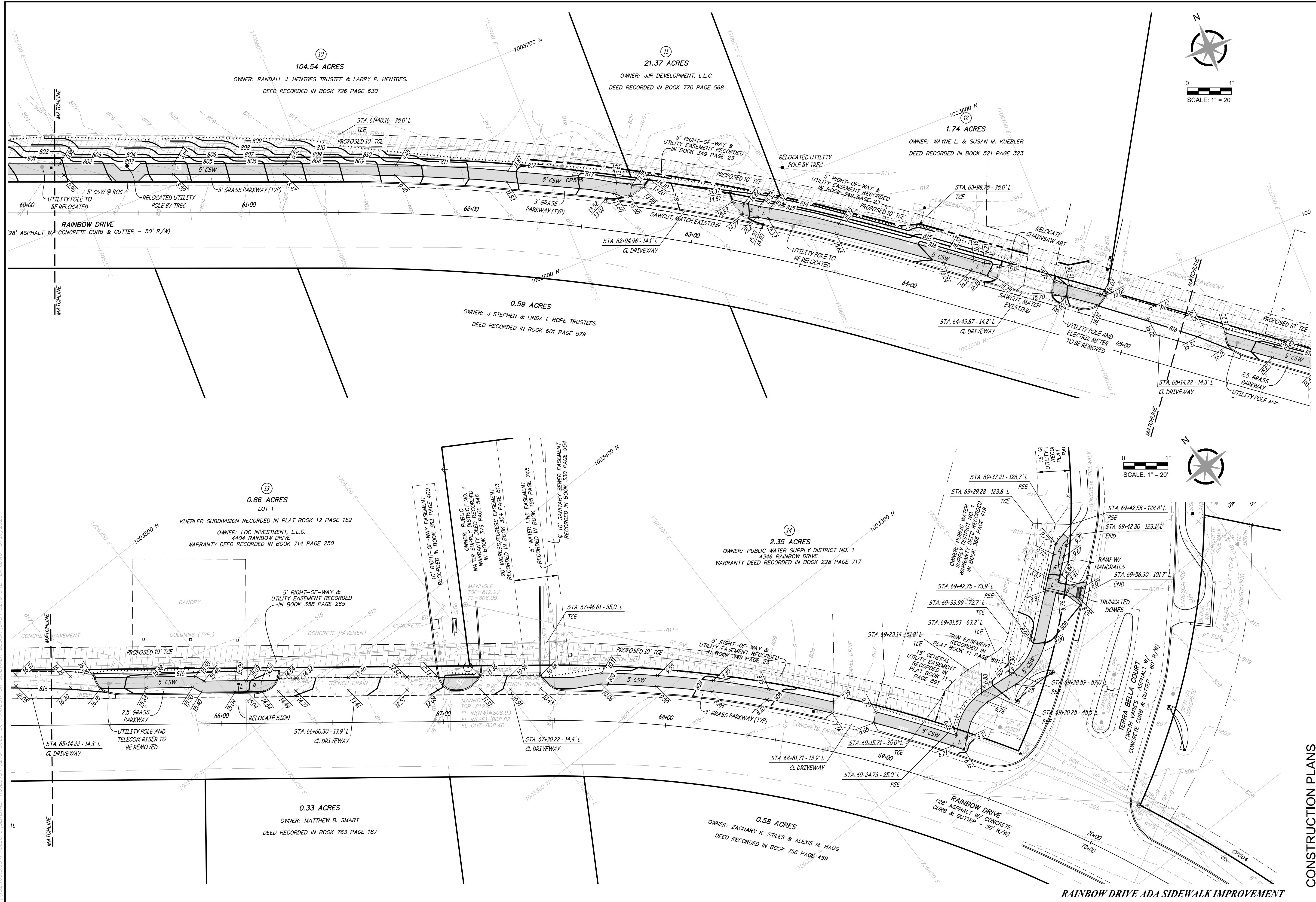
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CONSTRUCTION PLANS
 ES&S PROJECT NO. 16278

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 JEFFERSON CITY, COLE COUNTY, MISSOURI

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CONSTRUCTION PLANS

**COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS**
JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025
KELLY A. LOHSANDT
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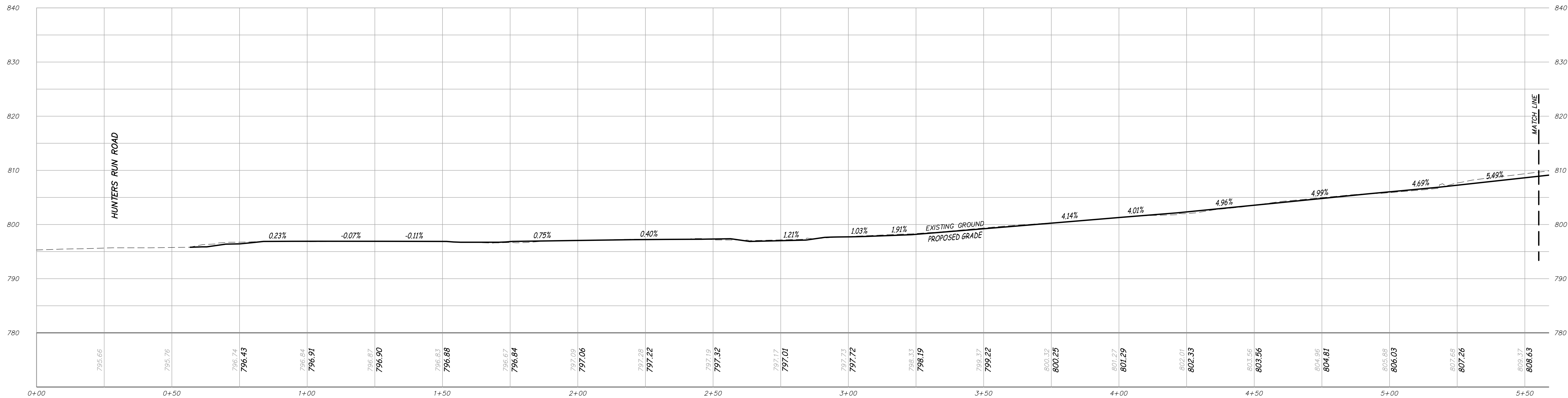
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SIDEWALK PROFILE

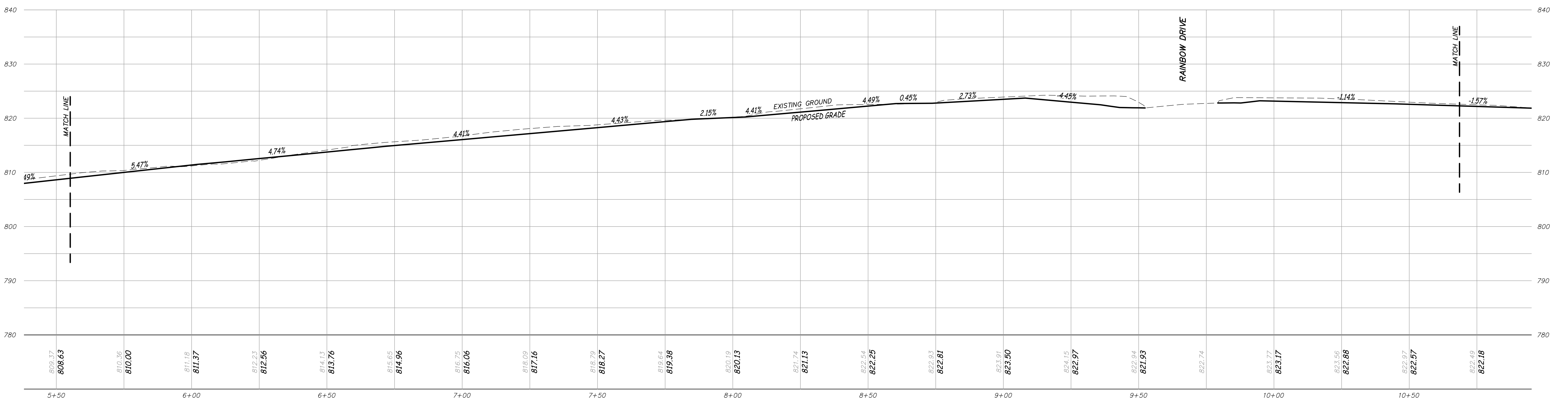
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ES&S PROJECT NO. 16278



PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'



PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'

RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT

CONSTRUCTION PLANS

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**COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS**
JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025
STATE OF MISSOURI
KELLY A. LOHSANDT
PROFESSIONAL ENGINEER
NUMBER PE-2021032813

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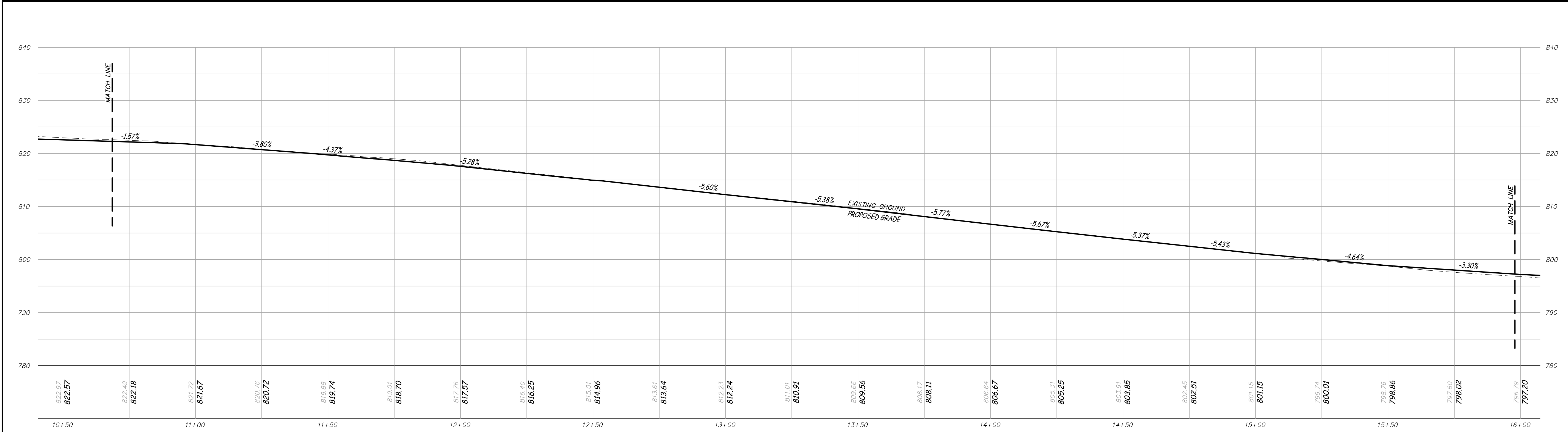
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SIDEWALK PROFILE

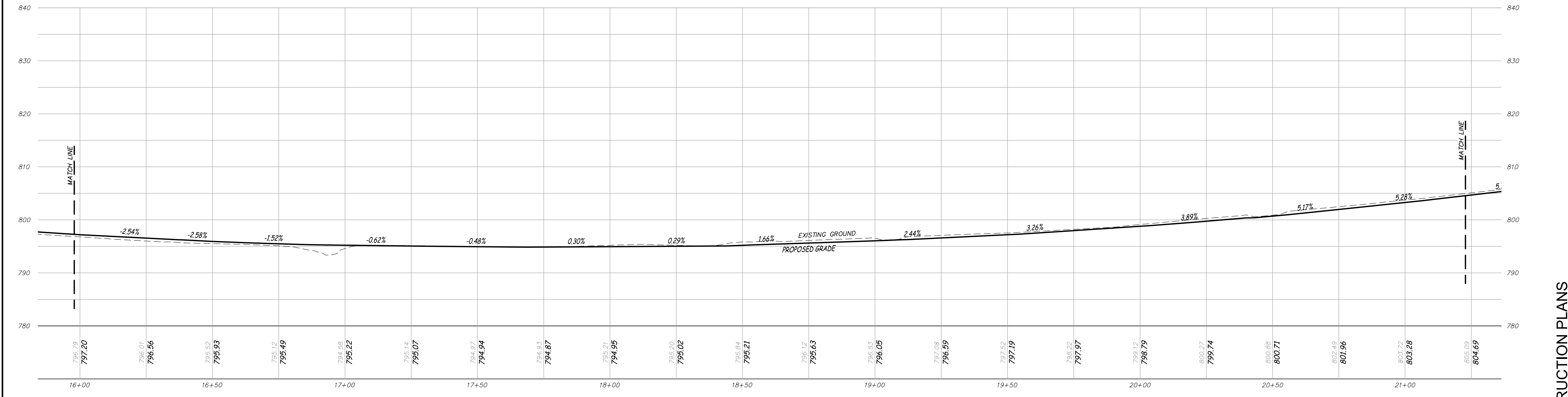
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PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'

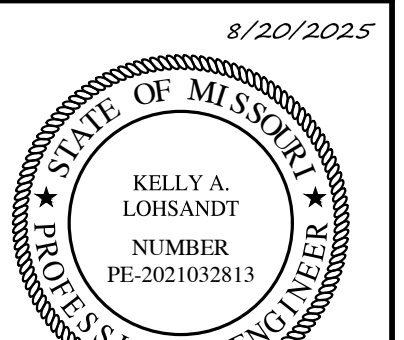


PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'

CONSTRUCTION PLANS

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**COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS**
JEFFERSON CITY, COLE COUNTY, MISSOURI



Kelly A. Lohsandt

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PE-2021032813

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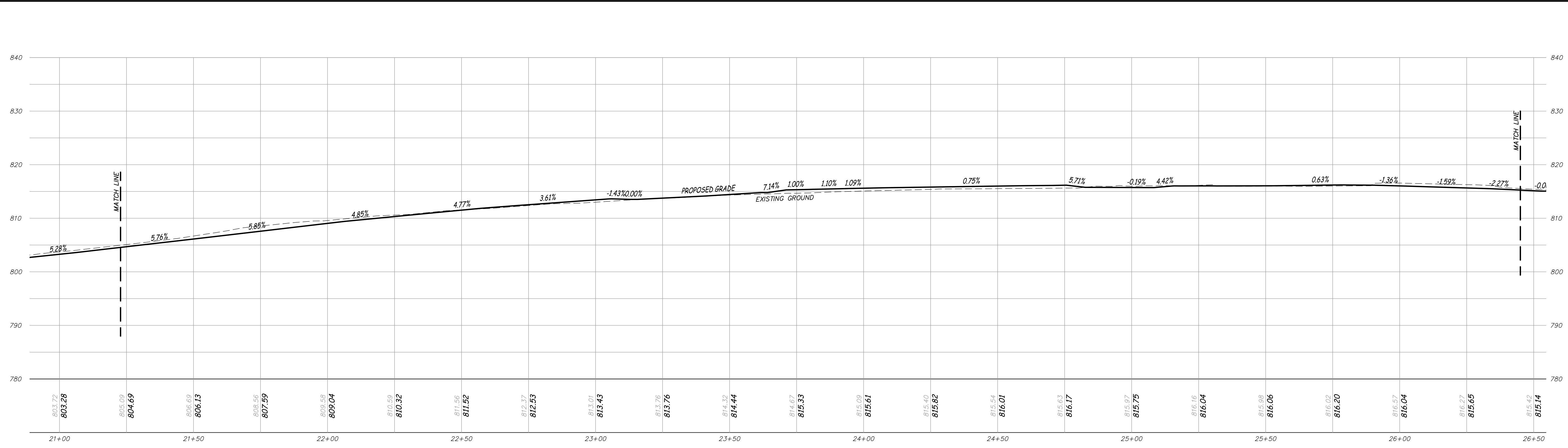
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SIDEWALK PROFILE

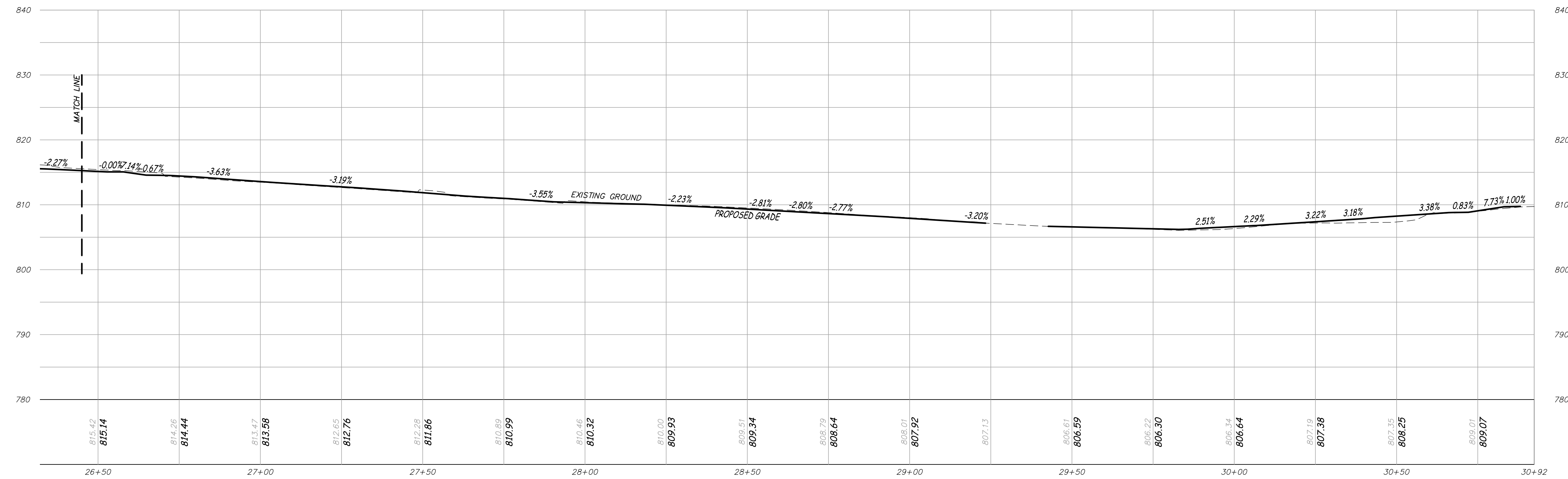
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PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'



PROPOSED SIDEWALK
SCALE - HORIZ. 1" = 20'
VERT. 1" = 10'

CONSTRUCTION PLANS

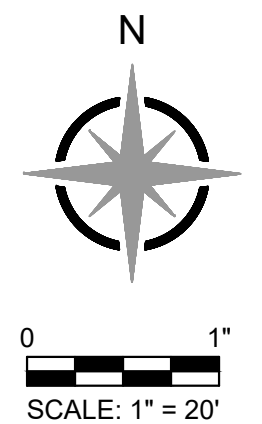
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25.16 ACRES
 OWNER: HCRP HOLDINGS LLC
 DEED RECORDED IN BOOK 734 PAGE 580

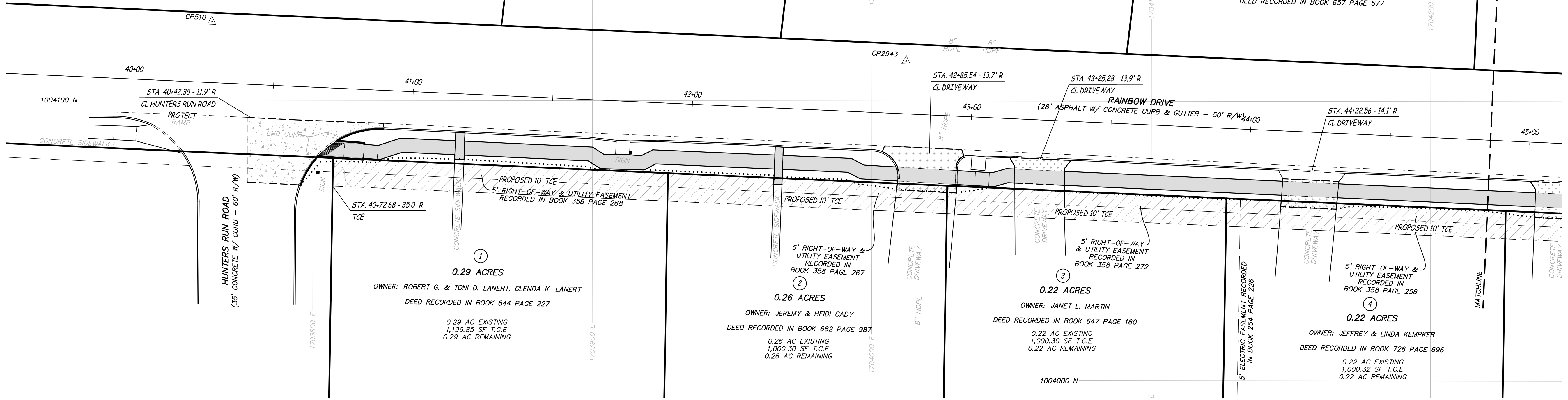
0.51 ACRES
 OWNER: STEPHEN L. & LUCY O. BUERSMEYER TRUSTEES
 DEED RECORDED IN BOOK 753 PAGE 307

0.57 ACRES
 OWNER: DAVID L. & VALERIE O. SALENSKI
 DEED RECORDED IN BOOK 669 PAGE 40

0.55 ACRES
 OWNER: JOSHUA C. & CANDICE M. FRATES
 DEED RECORDED IN BOOK 657 PAGE 677



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1
 0.29 ACRES
 OWNER: ROBERT G. & TONI D. LANERT, GLENDA K. LANERT
 DEED RECORDED IN BOOK 644 PAGE 227
 0.29 AC EXISTING
 1,199.85 SF T.C.E.
 0.29 AC REMAINING

2
 0.26 ACRES
 OWNER: JEREMY & HEIDI CADY
 DEED RECORDED IN BOOK 662 PAGE 987
 0.26 AC EXISTING
 1,000.30 SF T.C.E.
 0.26 AC REMAINING

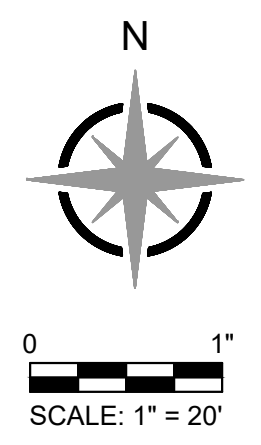
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 0.22 ACRES
 OWNER: JANET L. MARTIN
 DEED RECORDED IN BOOK 647 PAGE 160
 0.22 AC EXISTING
 1,000.30 SF T.C.E.
 0.22 AC REMAINING

4
 0.22 ACRES
 OWNER: JEFFREY & LINDA KEMPKER
 DEED RECORDED IN BOOK 726 PAGE 696
 0.22 AC EXISTING
 1,000.32 SF T.C.E.
 0.22 AC REMAINING

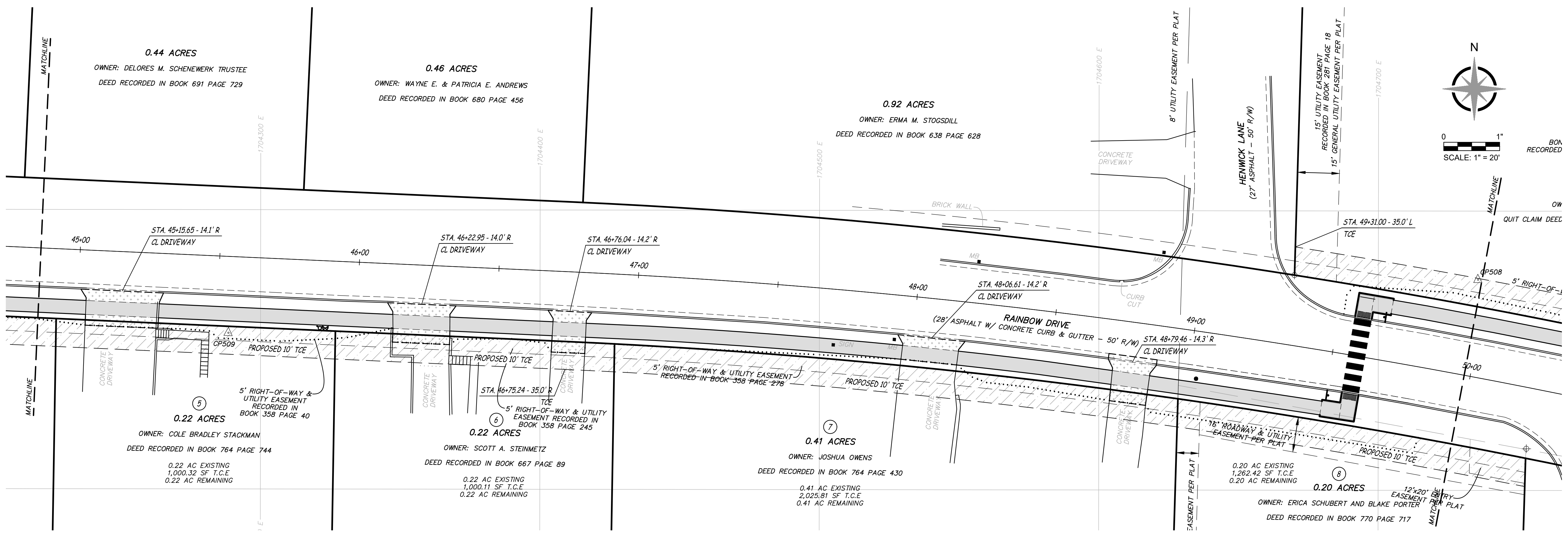
0.44 ACRES
 OWNER: DELORES M. SCHENEWERK TRUSTEE
 DEED RECORDED IN BOOK 691 PAGE 729

0.46 ACRES
 OWNER: WAYNE E. & PATRICIA E. ANDREWS
 DEED RECORDED IN BOOK 680 PAGE 456

0.92 ACRES
 OWNER: ERMA M. STOGSDILL
 DEED RECORDED IN BOOK 638 PAGE 628



8/20/2025
 STATE OF MISSOURI
 KELLY A. LOHSANDT
 NUMBER PE-2021032813
 PROFESSIONAL ENGINEER
 Kelly A. Lohsandt



5
 0.22 ACRES
 OWNER: COLE BRADLEY STACKMAN
 DEED RECORDED IN BOOK 764 PAGE 744
 0.22 AC EXISTING
 1,000.32 SF T.C.E.
 0.22 AC REMAINING

6
 0.22 ACRES
 OWNER: SCOTT A. STEINMETZ
 DEED RECORDED IN BOOK 667 PAGE 89
 0.22 AC EXISTING
 1,000.11 SF T.C.E.
 0.22 AC REMAINING

7
 0.41 ACRES
 OWNER: JOSHUA OWENS
 DEED RECORDED IN BOOK 764 PAGE 430
 0.41 AC EXISTING
 2,025.81 SF T.C.E.
 0.41 AC REMAINING

8
 0.20 ACRES
 OWNER: ERICA SCHUBERT AND BLAKE PORTER
 DEED RECORDED IN BOOK 770 PAGE 717
 0.20 AC EXISTING
 1,262.42 SF T.C.E.
 0.20 AC REMAINING

KELLY A. LOHSANDT
 PROFESSIONAL ENGINEER
 PE-2021032813

Date
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RIGHT-OF-WAY PLAN

Sheet

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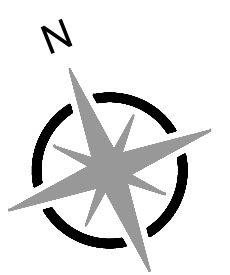
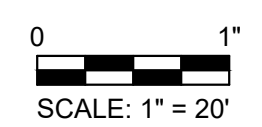
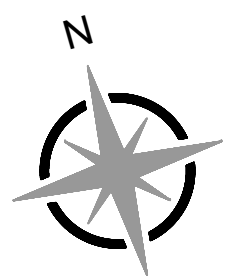
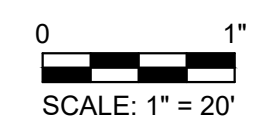
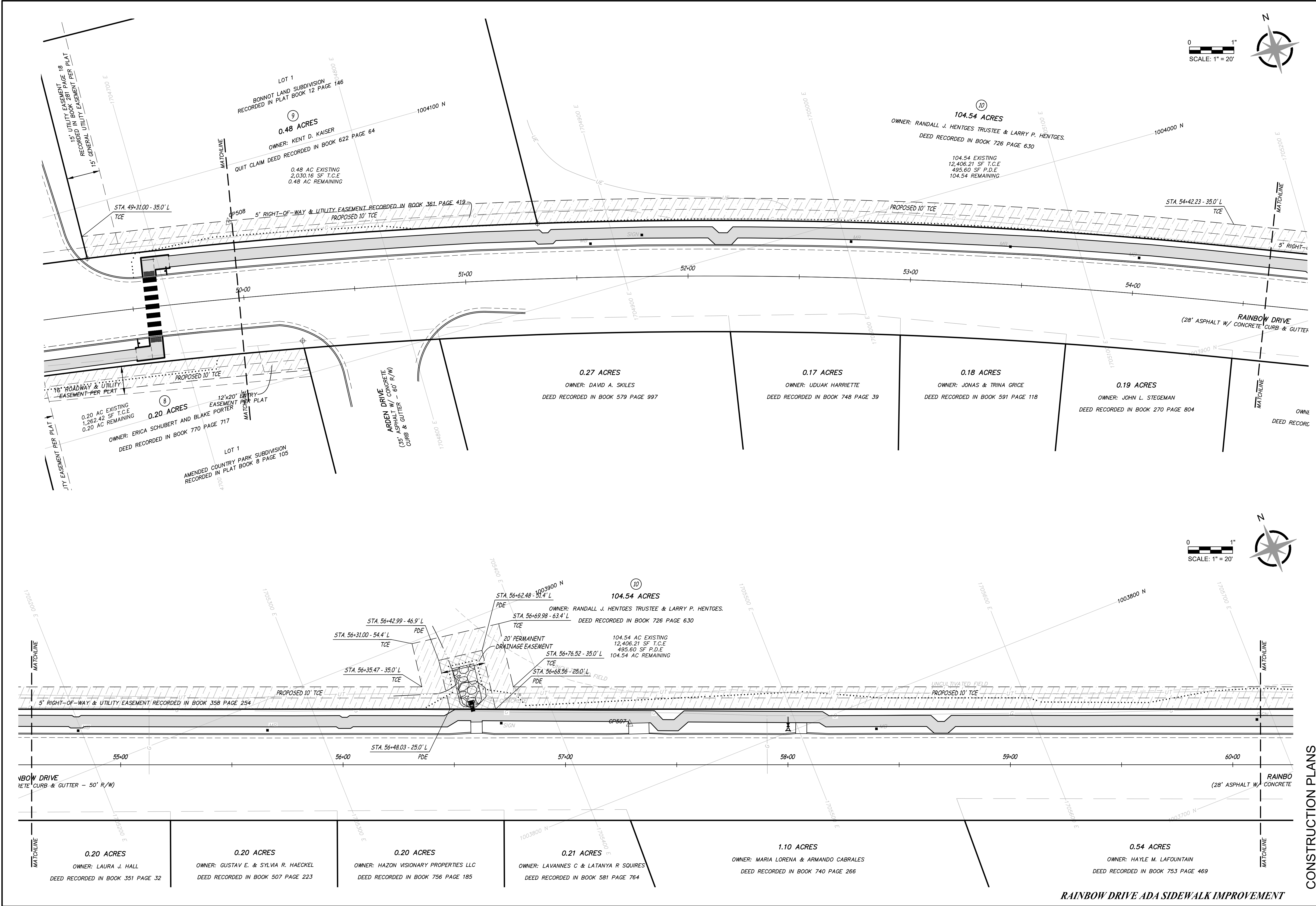
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CONSTRUCTION PLANS

RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT

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8/20/2025

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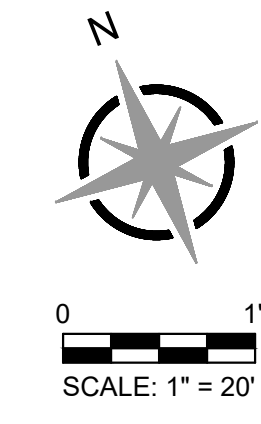
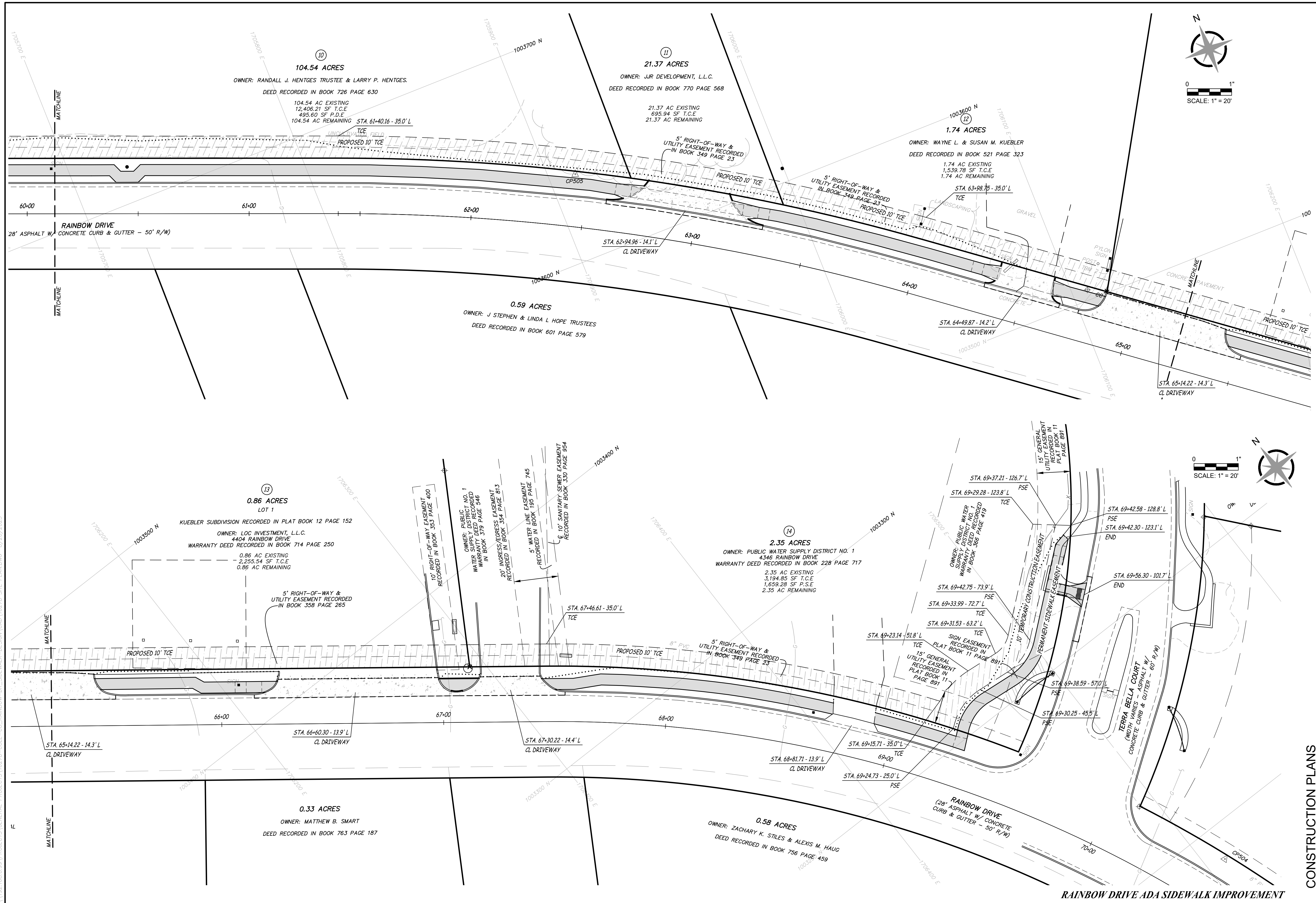
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RIGHT-OF-WAY PLAN
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CONSTRUCTION PLANS
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RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT



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 SIDEWALK IMPROVEMENTS**
 JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025

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 IF ORIGINAL SIGNATURE OR DIGITAL AUTHENTICATION IS NOT PRESENT THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

Date	AUGUST 20, 2025
Revised	
Design:	RE
Drawn:	MJS
RIGHT-OF-WAY PLAN	
Sheet	C3.03

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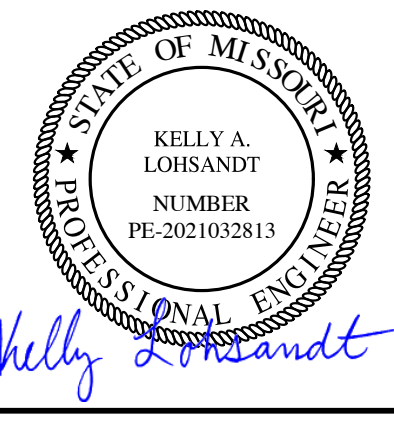
CONSTRUCTION PLANS

RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT

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**COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS**
JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025



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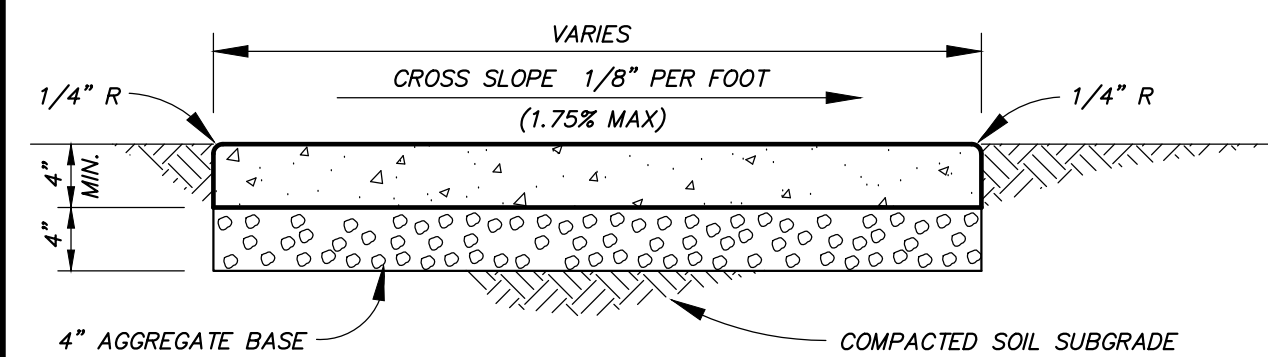
RIGHT-OF-WAY PLAN

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ES&S PROJECT NO. 16278

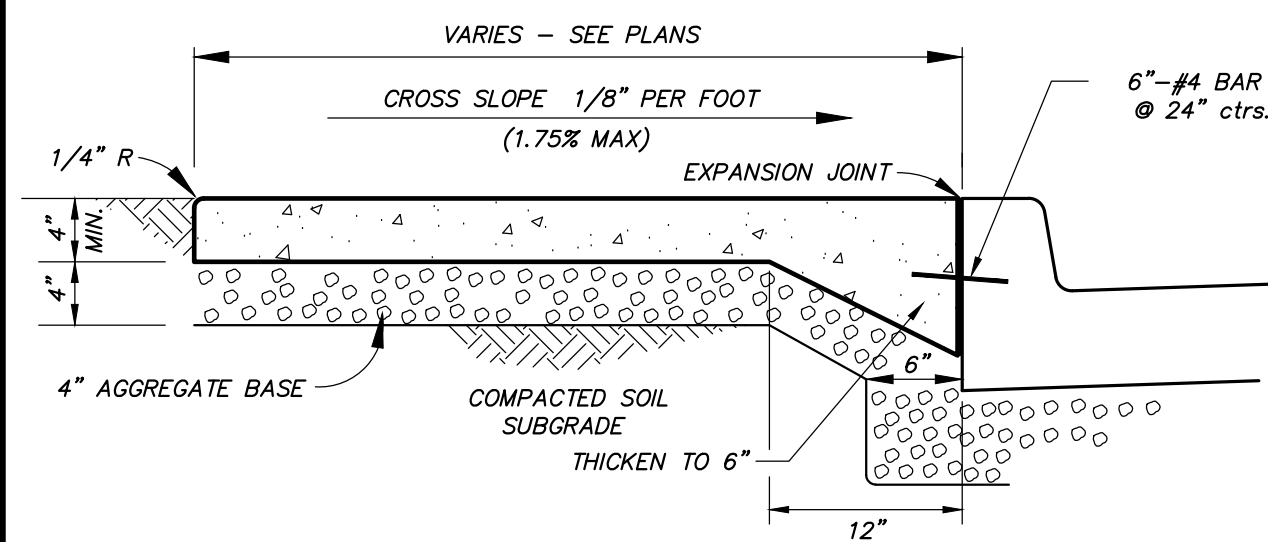
OWNER NAME	PARCEL NUMBER	TEMPORARY CONSTRUCTION EASEMENT		PERMANENT EASEMENT	
		LENGTH	WIDTH	LENGTH	WIDTH
ROBERT G. & TONI D. LANERT, GLENDA K. LANERT	1	120'	10'	--	--
JEREMY & HEIDI CADY	2	100'	10'	--	--
JANET L. MARTIN	3	100'	10'	--	--
JEFFREY & LINDA KEMPKER	4	100'	10'	--	--
RYAN J. & ANDREA L JUNGMEYER	5	100'	10'	--	--
SCOTT A. STEINMETZ	6	100'	10'	--	--
GILBERT RANK	7	202'	10'	--	--
VICTORIA & BLAKE HAUSCHILD	8	126'	10'	--	--
KENT D. KAISER	9	203'	10'	--	--
RANDALL J. HENTGES TRUSTEE & LARRY P. HENTGES (FRONTAGE)	10	1143'	10'	--	--
RANDALL J. HENTGES TRUSTEE & LARRY P. HENTGES (STORM)	10	40'	30'	25'	20'
CHARLESTON PLACE DEVELOPMENT CO.	11	70'	10'	--	--
WAYNE L. & SUSAN M. KUEBLER	12	151'	10'	--	--
L O C INVESTMENT LLC	13	225'	10'	--	--
PUBLIC WATER SUPPLY DISTRICT #1	14	310'	10'	105'	VARIABLES

CONSTRUCTION PLANS



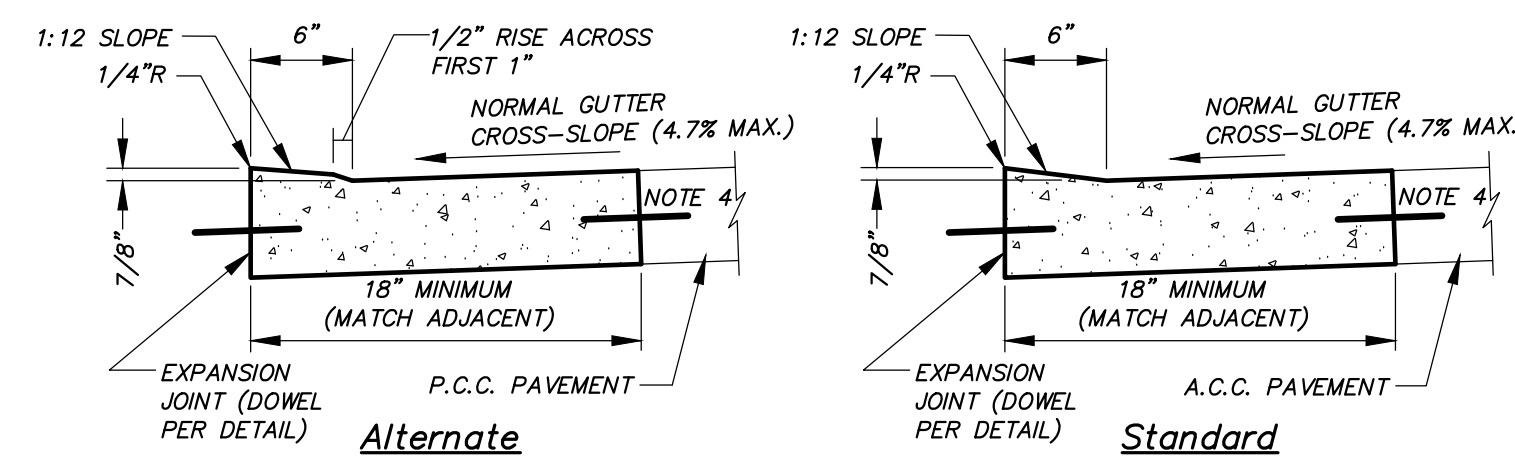
- NOTES:**
- SIDEWALK SHALL BE 5-8% AIR-ENTRAINED, 6 BAG MIX, 4,000 PSI PORTLAND CEMENT CONCRETE.
 - INSTALL TRANSVERSE EXPANSION JOINTS TO MATCH STREET OR CURB AND GUTTER EXPANSION JOINTS AND AT ALL DRIVEWAY APPROACHES, FIXED STRUCTURES, BUILDINGS, AND SIDEWALK RAMPS. SPACING SHALL NOT EXCEED 100'.
 - FOR SIDEWALKS UP TO 6 FT. WIDE, INSTALL TRANSVERSE SAW-CUT JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
 - FOR SIDEWALKS WIDER THAN 6 FT., INSTALL LONGITUDINAL SAW JOINT AT CENTERLINE OR AT A SPACING NOT TO EXCEED 5 FT. TRANSVERSE SAW-CUT JOINT SPACING EQUAL TO HALF SIDEWALK WIDTH.
 - IF SIDEWALK IS REINFORCED, NO STEEL SHALL BE PLACED THROUGH AN EXPANSION JOINT.
 - SEE SEPARATE DETAIL FOR ADDITIONAL CONCRETE JOINT REQUIREMENTS.

CONCRETE SIDEWALK
NOT TO SCALE



- NOTES:**
- SIDEWALK SHALL BE PORTLAND CEMENT CONCRETE.
 - INSTALL TRANSVERSE EXPANSION JOINTS TO MATCH STREET OR CURB AND GUTTER EXPANSION JOINTS AND AT ALL DRIVEWAY APPROACHES, FIXED STRUCTURES, BUILDINGS, AND SIDEWALK RAMPS. SPACING SHALL NOT EXCEED 100'.
 - FOR SIDEWALKS UP TO 6 FT. WIDE, INSTALL TRANSVERSE SAW-CUT JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
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 - IF SIDEWALK IS REINFORCED, NO STEEL SHALL BE PLACED THROUGH AN EXPANSION JOINT.
 - SEE SEPARATE DETAIL FOR ADDITIONAL CONCRETE JOINT REQUIREMENTS.

CONCRETE SIDEWALK AT BACK OF CURB
NOT TO SCALE

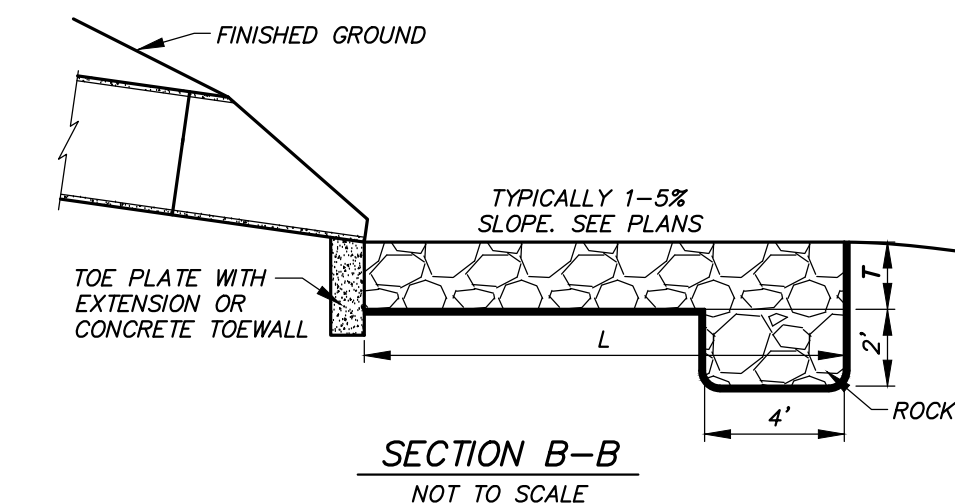


- NOTES:**
- CONCRETE THICKNESS AND BASE SHALL MATCH ADJACENT CONCRETE PAVEMENT OR ADJACENT CURB AND GUTTER.
 - EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE ADJACENT PAVEMENT AND CURB & GUTTER.
 - CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS.
 - WHERE PAVEMENT IS P.C.C. DOWEL USING 12" LONG #4 BARS AT 24" CTRS.

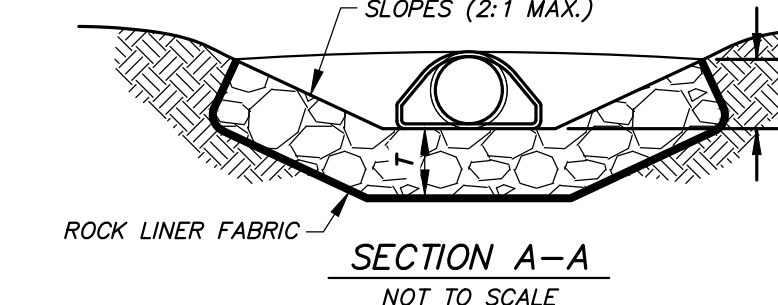
SIDEWALK RAMP CURB
NOT TO SCALE

PIPE SIZE (in)	MAXIMUM PIPE SLOPE (%)	LENGTH L (ft)	BOTTOM WIDTH BW MINIMUM (ft)	TOP WIDTH TW MINIMUM (ft)	THICKNESS T MINIMUM (ft)
12	3.50	12	4	8	1
15	2.60	15	4	9	1
18	2.00	16	4	10	1
24	1.70	20	4	12	1
30	1.40	24	6	16	2
36	1.00	28	6	18	2
42	0.80	32	6	20	2
48	0.65	36	6	22	2
54	0.55	40	8	26	2
60	0.45	44	8	28	3
72	0.40	48	8	32	3

- NOTES:**
- RIP RAP SHALL BE MODOT TYPE 1 ROCK BLANKET: 40% OF THE MASS SHALL BE PIECES HAVING A VOLUME OF ONE CUBIC FOOT OR MORE. ROCK MUST BE ANGULAR, HARD, AND DURABLE.
 - ROCK LINER FABRIC SHALL CONSIST OF A NON-WOVEN POLYPROPYLENE TYPE FABRIC: TENCATE MIRAFI 180N OR GEOTEX 801 OR APPROVED EQUAL.



SECTION B-B
NOT TO SCALE



PLAN
NOT TO SCALE

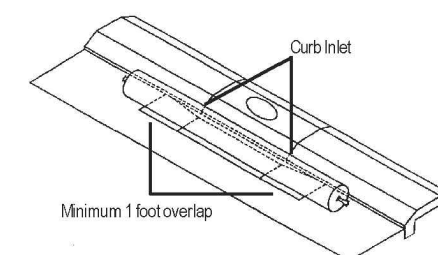
RIP RAP FOR FLARED END SECTIONS
NOT TO SCALE

Gutterbuddy™ Specification
For Curb Gutter Storm Drains

1.0 Description

1.1 This work shall consist of furnishing, placing, maintaining and removing the Gutterbuddy™ sediment control device as directed by the engineer and as shown on the contract drawings. The Gutterbuddy™ sediment control system distributed by:

ACF Environmental, Inc.
2831 Cardwell Road
Richmond, Virginia 23234
Phone: 800-448-3636 • Fax: 804-743-7779
www.acfenvironmental.com



2.0 Materials

2.1 GUTTERBUDDY™

The Gutterbuddy™ shall be synthetic filter manufactured from recycled synthetic fibers.

2.1.1 The Gutterbuddy™ will be manufactured to be 9" in diameter and are available in 4', 6', 8', 10', 12', 14' and 16' lengths and a minimum of twenty-four (24) inches longer than the curb inlet opening. This will allow for sufficient length to cover the inlet with twelve (12) inches beyond the inlet on both ends.

3.0 Construction Sequence

3.1 General

3.1.1 Install the Gutterbuddy™ in front of the curb inlet opening. Each end of the Gutterbuddy™ should overlap the curb inlet approximately 12".

3.1.2 The Gutterbuddy™ should be cleaned if a visual inspection shows silt and debris build up around the Gutterbuddy™.

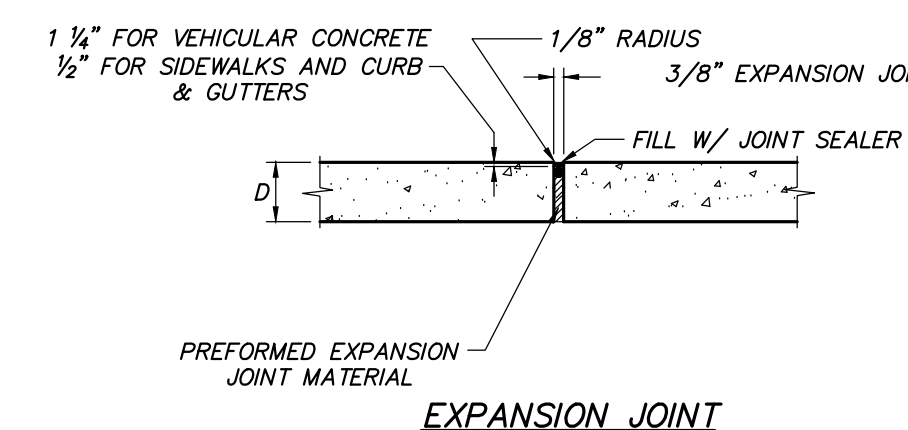
3.1.3 To remove the Gutterbuddy™, lift out of the opening.

3.1.4 The Gutterbuddy™ is reusable. Once the construction project is complete and it is no longer needed for sediment control, remove, clean and store out of the sunlight until needed on the next project.

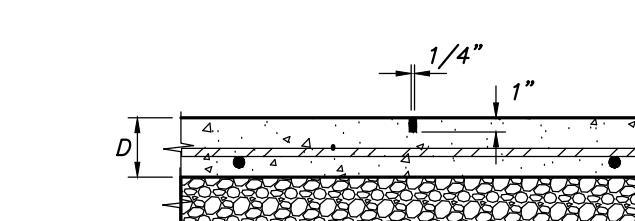
3.1.5 Ponding is likely if sediment is not removed regularly. Inspection of Gutterbuddy™ should be on a regular basis and immediately after major rain events.

4.0 Basis of Payment

4.1 The payment for any Gutterbuddy™ used during the construction is to be included in the bid of the overall erosion and sediment control plan and priced by the linear foot.

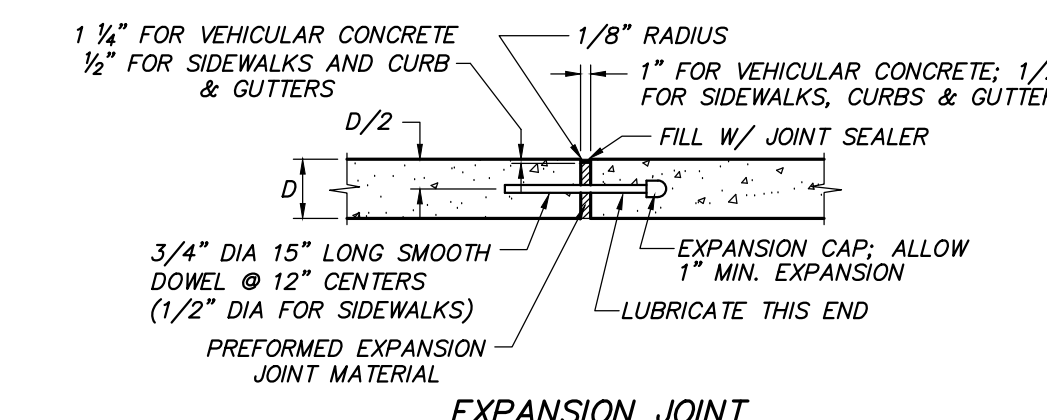


EXPANSION JOINT

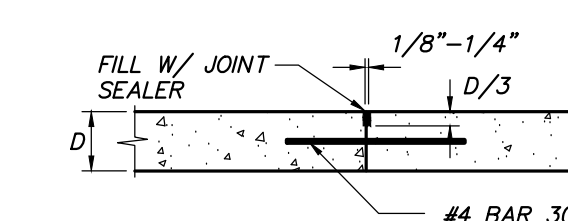


SAW-CUT JOINT

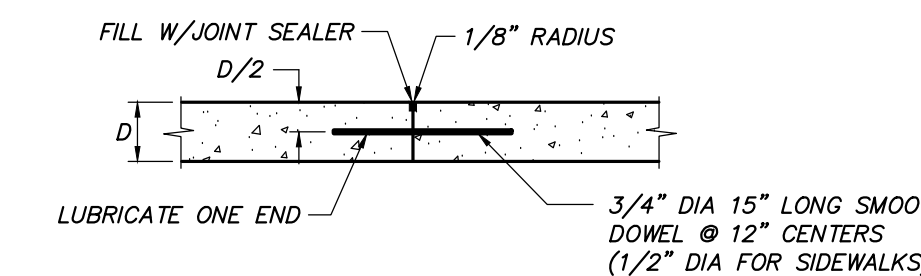
CONCRETE PAVEMENT JOINTS
NOT TO SCALE



EXPANSION JOINT



SAW-CUT JOINT



CONSTRUCTION JOINT

- NOTES:**
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PAVEMENT JOINT PLAN OF ALL CONCRETE PAVEMENT FOR APPROVAL.
 - CONCRETE PAVEMENT SHALL HAVE SAW-CUT OR CONSTRUCTION JOINTS EVERY 10 FEET FOR 4 INCH THICK PAVEMENT, 12 FEET FOR 5 INCH THICK PAVEMENT, AND 15 FEET FOR 6 INCH THICK PAVEMENT OR GREATER. PANELS SHALL BE CUT SUCH THAT PANELS ARE NEARLY SQUARE AND DO NOT EXCEED 1.4 LENGTH TO WIDTH RATIO. EXPANSION JOINTS SHALL BE PROVIDED AT ALL FIXED STRUCTURES, SUCH AS: LIGHT STANDARD FOUNDATIONS, SEWER STRUCTURES, BUILDINGS, WALLS, BOTTOM OF STAIRS, ROOF DRAINS, ETC., AND EVERY 150 FEET MAXIMUM. DOWEL BARS SHALL BE PROVIDED AT TRANSVERSE JOINTS IN ALL HEAVY DUTY PAVEMENT DRIVE AISLES.
 - THIS DETAIL APPLIES TO ALL CONCRETE PAVEMENT FOR PARKING LOTS, DRIVE/ACCESS AISLES, CURBS & GUTTERS, AND SIDEWALKS.
 - INCLUDE BAR WITH TRANSVERSE SAW-CUT JOINTS FOR HEAVY DUTY PAVEMENT. OMIT BAR WITH SAW-CUT JOINTS FOR STANDARD DUTY PAVEMENT AND SIDEWALKS.
 - PROVIDE CONSTRUCTION JOINT AT END OF DAYS WORK OR IF CONCRETE PLACEMENT IS SUSPENDED FOR MORE THAN 30 MINUTES.
 - SAW-CUT JOINTS SHALL BE CUT WITHIN 12 HOURS OF INITIAL SET OF CONCRETE. RAVELED JOINTS WILL NOT BE ACCEPTED.
 - ELASTOMERIC POLYURETHANE OR SILICONE JOINT SEALANT IS REQUIRED FOR ALL JOINTS AND SHALL BE LIGHT GRAY IN COLOR.
 - OMIT DOWEL BARS FOR EXPANSION JOINTS AT BUILDINGS, LIGHT STANDARDS, AND ROOF DRAINS.

CONCRETE PAVEMENT JOINTS
NOT TO SCALE

ACF Environmental
"Complete Source for Storm Water Solutions"

Distributed by:

THE BMP STORES
(800) 844-9223
www.thebmpstore.com

ACF
2831 Cardwell Road
Richmond, Virginia 23234
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www.acfenvironmental.com

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802 El Dorado Drive, Jefferson City, MO 65101
573-636-3303
1775 West Main Street, Sedalia, MO 65301
660-326-8618
www.es-inc.com
MO Engineering Corp. # 2004005018

COLE COUNTY TAP - 3101(507)
RAINBOW DRIVE
SIDEWALK IMPROVEMENTS
JEFFERSON CITY, COLE COUNTY, MISSOURI

8/20/2025

STATE OF MISSOURI
KELLY A. LOHSANDT
PROFESSIONAL ENGINEER
NUMBER PE-2021032813

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Revised

Design: RE Drawn: MJS

DETAILS

Sheet

C4.01

RAINBOW DRIVE ADA SIDEWALK IMPROVEMENT

CONSTRUCTION PLANS

ES&S PROJECT NO. 16278

**COLE COUNTY TAP - 3101(507)
 RAINBOW DRIVE
 SIDEWALK IMPROVEMENTS**
 JEFFERSON CITY, COLE COUNTY, MISSOURI

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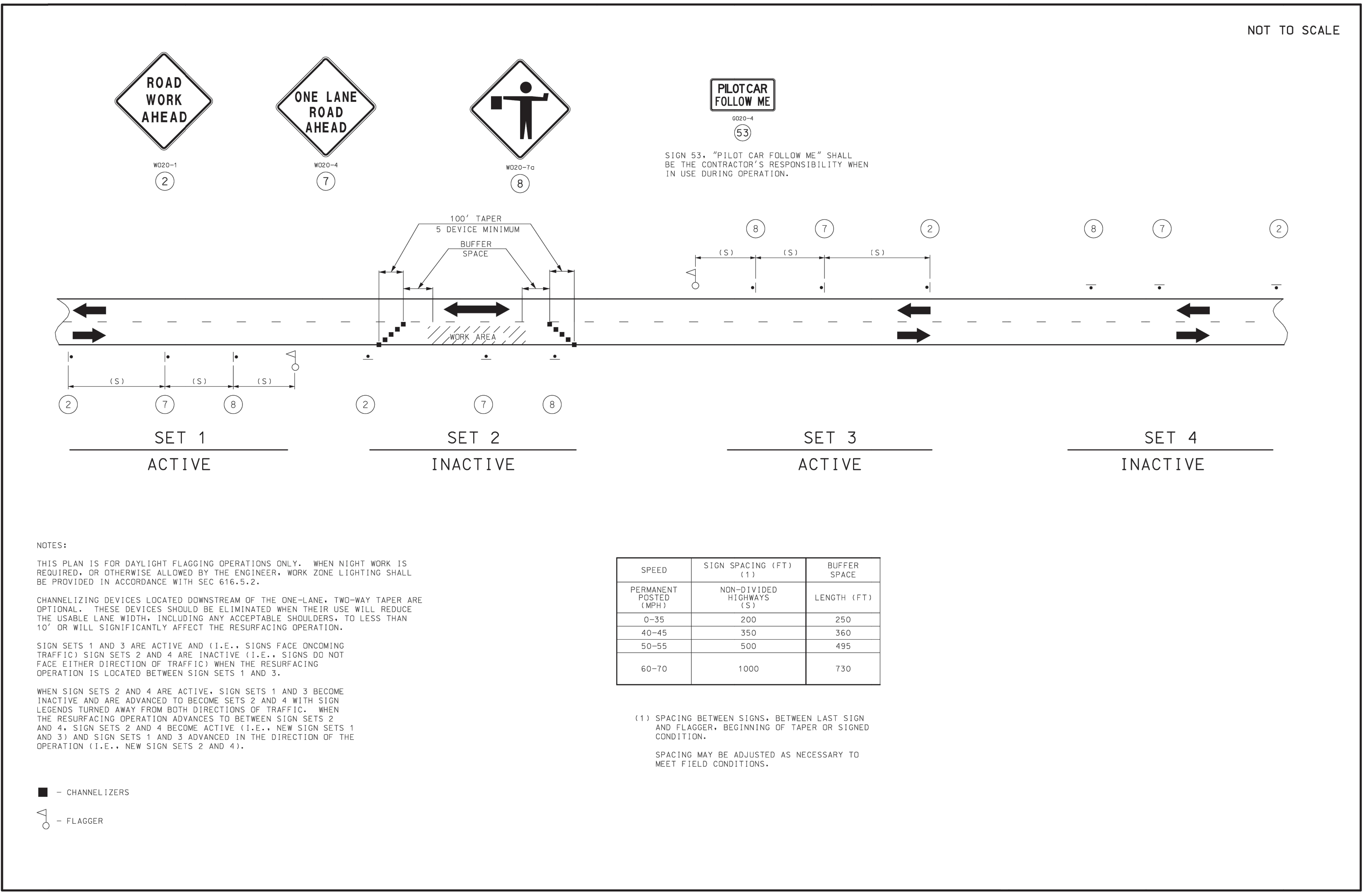
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TEMPORARY TRAFFIC CONTROL PLAN

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CONSTRUCTION PLANS