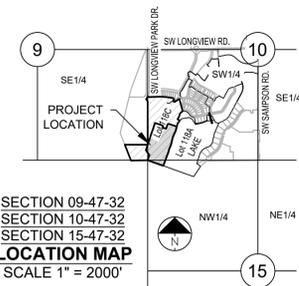


LEGEND:

- A/E - ACCESS EASEMENT
 - BC - BACK OF CURB
 - B/B - BACK TO BACK
 - BM - BENCHMARK
 - BL or B.L. - BUILDING LINE
 - CO - CLEANOUT
 - TJB - TELEPHONE JUNCTION BOX
 - C&G - CURB AND GUTTER
 - D/E - DRAINAGE EASEMENT
 - E/E - ELECTRICAL EASEMENT
 - EL - ELEVATION
 - FL - FLOW LINE
 - G/E - GAS LINE EASEMENT
 - HDPE - HIGH-DENSITY POLYETHYLENE
 - L/E - LANDSCAPE EASEMENT
 - MSFE - MINIMUM SERVICEABLE FLOOR ELEVATION
 - PVC - POLYVINYL CHLORIDE
 - P/L - PROPERTY LINE
 - PUB/E - PUBLIC EASEMENT
 - RCP - REINFORCED CONCRETE PIPE
 - ROW or RW - RIGHT-OF-WAY
 - S/E - SANITARY SEWER EASEMENT
 - SL - SERVICE LINE
 - SW - SIDEWALK
 - TE - TOP ELEVATION
 - U/E - UTILITY EASEMENT
 - WSE - WATER SURFACE ELEVATION
 - W/E - WATERLINE EASEMENT
-
- ASPHALT PAVEMENT - EXISTING
 - ASPHALT PAVEMENT - PROPOSED
 - CONCRETE PAVEMENT - EXISTING
 - CONCRETE SIDEWALK - EXISTING
 - CONCRETE SIDEWALK - PROPOSED
 - CURB & GUTTER
 - CURB & GUTTER - EXISTING
 - TREELINE
 - EXISTING LOT AND R/W LINES
 - EXISTING PLAT LINES
 - P/L - PROPERTY LINES
 - ROW - RIGHT-OF-WAY
 - SANITARY SEWER MAIN
 - SANITARY SEWER MAIN - EXIST.
 - STORM SEWER
 - STORM SEWER - EXISTING
 - CABLE TV - EXISTING
 - FIBER OPTIC CABLE - EXISTING
 - TELEPHONE LINE - EXIST.
 - ELECTRIC LINE - EXISTING
 - OVERHEAD POWER LINE - EXIST.
 - UNDERGROUND ELECTRIC - EX.
 - GAS LINE - EXISTING
 - WATERLINE - EXISTING
 - LIGHT - EXISTING
 - EXISTING MANHOLE
 - CLEANOUT
 - EXISTING SANITARY MANHOLE
 - PROPOSED SANITARY MANHOLE
 - EXISTING AREA INLET
 - EXISTING CURB INLET
 - EXISTING GRATE INLET
 - EXISTING JUNCTION BOX
 - EXISTING STORM MANHOLE



SECTION 09-47-32
SECTION 10-47-32
SECTION 15-47-32
LOCATION MAP
SCALE 1" = 2000'

UTILITY CONTACTS:

MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)
Steve Holloway
600 NE Colbern Road
Lee's Summit, MO 64086
(816) 607-2186

MISSOURI GAS ENERGY (MGE)
Brent Jones
3025 SE Clover Drive
Lee's Summit, MO 64082
(816) 399-9633
brent.jones@spireenergy.com

EVERGY
Ron Dejanette
1300 SE Hamblin Road
Lee's Summit, MO 64081
Office: (816) 347-4316
Cell: (816) 810-5234
ron.dejanette@evergy.com

CITY OF LEE'S SUMMIT PUBLIC WORKS
220 SE Green Street
Lee's Summit, MO 64063
(816) 969-1800

AT&T
Mark Manion or Marty Loper
500 E. 8th Street, Room 370
Kansas City, MO 64106
(816) 275-2341 or (816) 275-1550

COMCAST CABLE
John Meadows
4700 Little Blue Parkway
Independence, MO 64057
(816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES
Mark Schaufler
1200 SE Hamblin Road
Lee's Summit, MO 64081
(816) 969-1900



STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL

FOR LUMBERMAN'S ROW

IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

GENERAL NOTES:

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE DEVELOPMENT SERVICES DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

STREET NOTES:

- ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
- ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING.
- CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ASSUMED DESIGN SPEED = 25 MPH (COLLECTOR).
- MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
- MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
- GRADE INTERSECTIONS TO DRAIN AS SHOWN.
- SSD = STOPPING SIGHT DISTANCE.
- ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

RECORD DRAWING

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"100:00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 8/8/2023
Certified by: BAL
Title: Design Engineer
Firm: Schlager and Associates, P.A.

EARTHWORK:

- It is recommended that a Geotechnical Engineer observe and document all earthwork activities.
- Contours have been shown at 1-foot or 2-foot intervals, as indicated. Grading shall consist of completing the earthwork required to bring the physical ground elevations of the existing site to the finished grade (or sub-grade) elevations provided on the plans as spot grades, contours or others means as indicated on the plans.
- The existing site topography depicted on the plans by contouring has been established by aerial photography and field verified by p.s. observation near 2-20-19. The contour elevations provided may not be exact ground elevations, but rather interpretations of such. Accuracy shall be considered to be such that not more than 10 percent of spot elevation checks shall be in error by more than one-half the contour interval provided, as defined by the National Map Accuracy Standards. Any quantities provided for earthwork volumes are established using this topography contour accuracy, and therefore the inherent accuracy of any earthwork quantity is assumed from the topography accuracy.
- Proposed contours are to approximate finished grade.
- Unless otherwise noted, payment for earthwork shall include backfilling of the curb and gutter, sidewalk and further manipulation of utility trench spoils. The site shall be left in a movable condition and positive drainage maintained throughout.
- Unless otherwise noted, all earthwork is considered Unclassified. No additional compensation will be provided for rock or shale excavation, unless specifically stated otherwise.
- Prior to earthwork activities, pre-disturbance erosion and sediment control devices shall be in place per the Storm Water Pollution Prevention plan and/or the Erosion and Sediment Control Plan prepared for this site.
- All topsoil shall be stripped from all areas to be graded and stockpiled adjacent to the site at an area specified by the project owner or his appointed representative. Vegetation, trash, trees, brush, tree roots and limbs, rock fragments greater than 6-inches and other deleterious materials shall be removed and properly disposed of offsite or as directed by the owner or his appointed representative.
- Unless otherwise specified in the Geotechnical Report, all fills shall be placed in maximum 6-inch lifts and compacted to 95-percent of maximum density as defined using a standard proctor test (AASHTO T99/ASTM 698).
- Fill materials shall be per Geotechnical Report and shall not include organic matter, debris or topsoil. All fills placed on slopes greater than 6:1 shall be benched.
- The Contractor shall be responsible for redistributing the topsoil over proposed turf and landscaped areas to a minimum depth of 6-inches below final grade.
- All areas shall be graded for positive drainage. Unless noted otherwise the following grades shall apply:
 - Turf Areas - 2.5% Minimum, 4H:1V Maximum
 - Paved Areas - 1.2% Minimum, 5% Maximum
- All disturbed areas shall be fertilized, seeded and mulched immediately after earthwork activities have ceased. Seeding shall be per the Erosion and Sediment Control Plan and/or Landscape Plan. If not specified seeding shall be per APWA Section 2400, latest edition. Unless otherwise noted, seeding shall be subsidiary to the contract price for earthwork and grading activities.
- All disturbed areas in the right-of-way shall be sodded.
- Underdrains are recommended for all paved areas adjacent to irrigated turf and landscaped beds.
- The Contractor shall adhere to the reporting requirements outlined in the Storm Water Pollution Prevention Plan (SWPPP) prepared for this project. Erosion and Sediment control devices shall be properly maintained and kept clean of silt and debris and in good working order. Additional erosion and sediment control measures shall be installed as required.

UTILITIES:

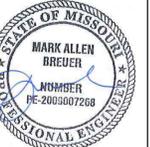
- Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer.
- The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the negligence of the contractor shall be repaired at the contractor's expense.
- Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of the structures.
- Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.
- Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation.
- The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of any proposed utility main extension or service line or service connection to any existing main.
- Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly disposed of offsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative.
- All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best information provided to the Project Engineer. The Engineer has the authority to identify and define the physical characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

SUMMARY OF QUANTITIES			
	ITEM	QUANTITY	UNITS
1	CLEANING, GRUBBING, AND DISPOSAL	1	L.S.
2	GRADING	1	L.S.
3	SUBGRADE STABILIZATION (PUBLIC STREETS)	3896	S.Y.
4	6" ASPHALT	3165	S.Y.
5	TYPE CG-2 CURB	1461	L.F.
6	TYPE C1 CURB	1239	L.F.
7	5' SIDEWALK	1498	L.F.
8	15" HDPE	149	L.F.
9	18" HDPE	501	L.F.
10	24" HDPE	143	L.F.
11	24" RCP	219	L.F.
12	6" x 4" CURB INLET	9	EA.
13	24" RCP END SECTION	1	EA.
14	EROSION CONTROL	1	L.S.
15	SEEDING/MULCHING	1	L.S.
16	BONDS	1	L.S.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT
3	MASTER DRAINAGE PLAN - GRADING PLAN
4	MASTER DRAINAGE PLAN - LOT INFO
5	MASTER DRAINAGE PLAN - DRAINAGE MAP
6	MASTER DRAINAGE PLAN - DRAINAGE CALCS
7	MASTER DRAINAGE PLAN - DRAINAGE CALCS CONT
8	CORINTHIAN LANE PLAN & PROFILE
9	INTERSECTION DETAILS
10	STORM PLAN
11	STORM PROFILES
12	STREET DETAILS
13	STORM DETAILS

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Kansas State Certificates of Authority
#E-296 #LAX-29 #L-5-54

PREPARED BY:



08.08.2023
SCHLAGEL & ASSOCIATES, P.A.

LUMBERMAN'S ROW STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
###	###	8-22	22-034

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.

ELEV. 935.18

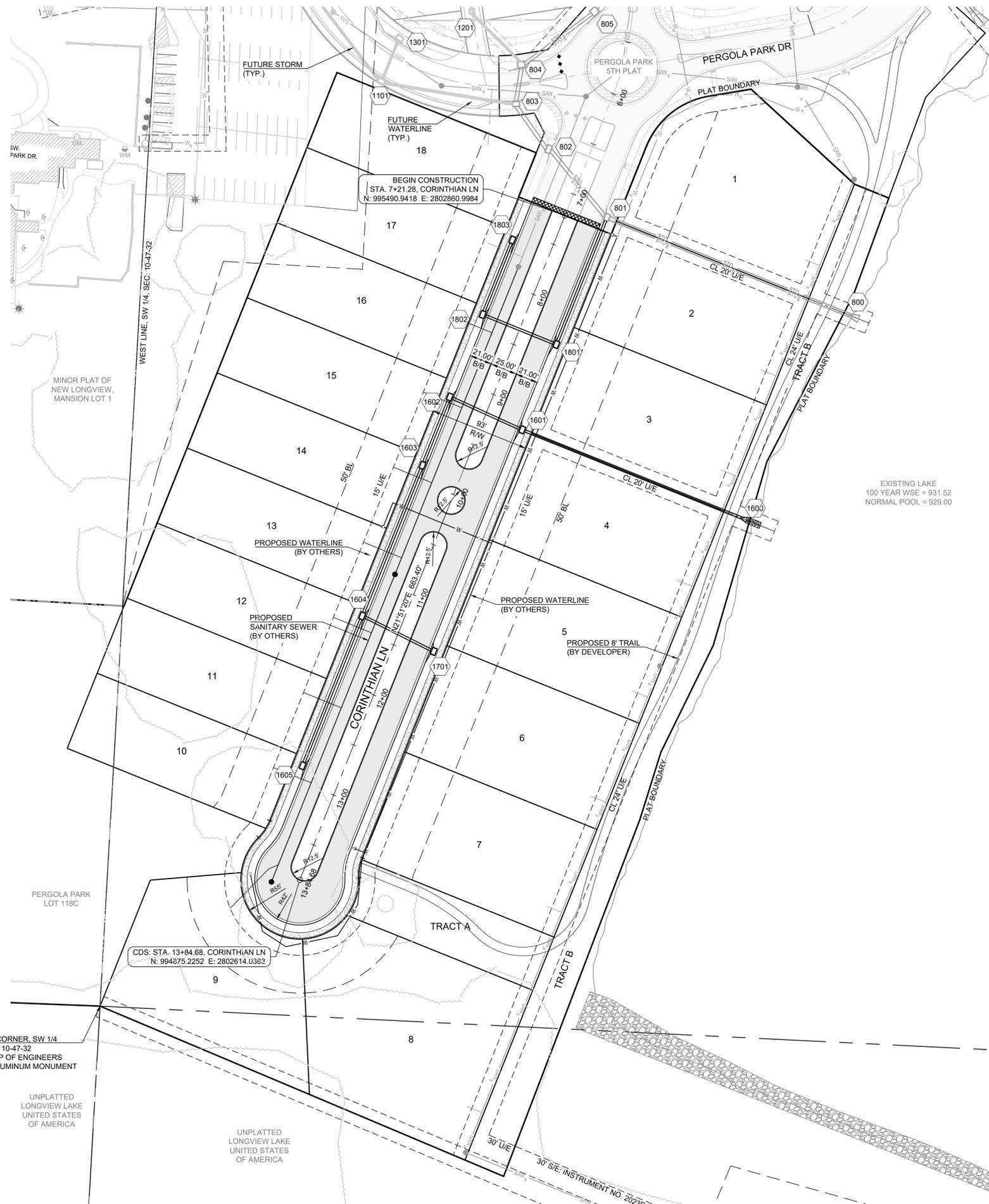
PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09

COVER SHEET

SHEET

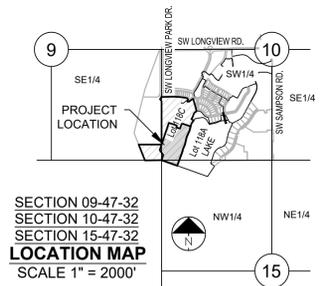


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Date: 8/8/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlagel and Associates, P.A.



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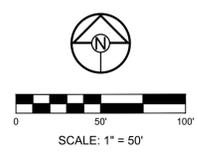
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SURVEY NOTES

The bases of bearing and coordinates are base on the Missouri Coordinate System of 1983, West Zone (2003 Adjustment) with a Grid Factor of 0.9999020.



PREPARED BY:

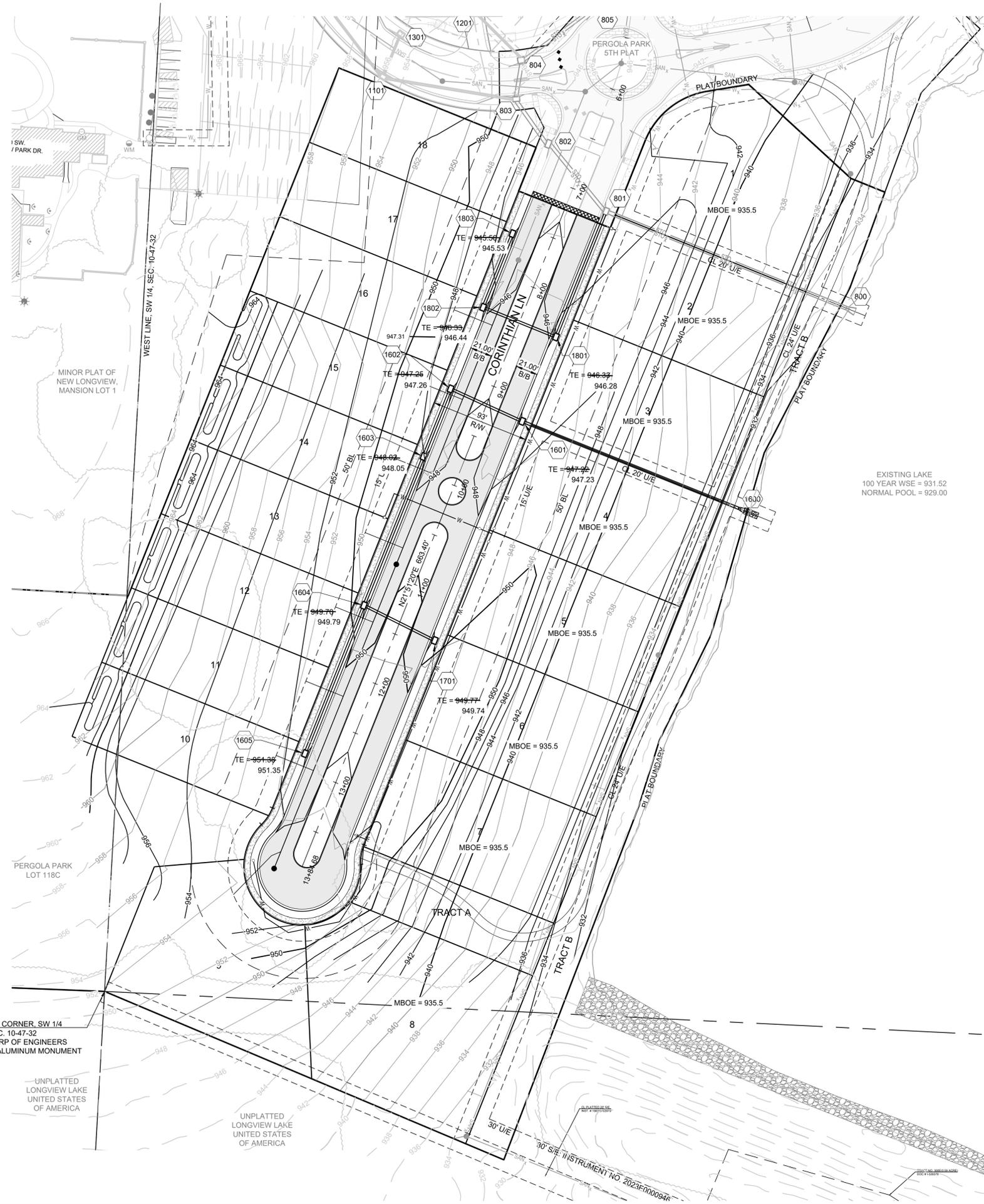


08.08.2023
 SCHLAGEL & ASSOCIATES, P.A.

LUMBERMAN'S ROW STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

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EARTHWORK SUMMARY	
CUT	24,183 CY
FILL	20,290 CY
NET	3,893 CY CUT

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- NOTE:**
- 950 — DENOTES PROPOSED MAJOR CONTOUR
 - 950 — DENOTES PROPOSED MINOR CONTOUR
 - 950 — DENOTES EXISTING MAJOR CONTOUR
 - 950 — DENOTES EXISTING MINOR CONTOUR
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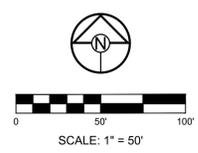
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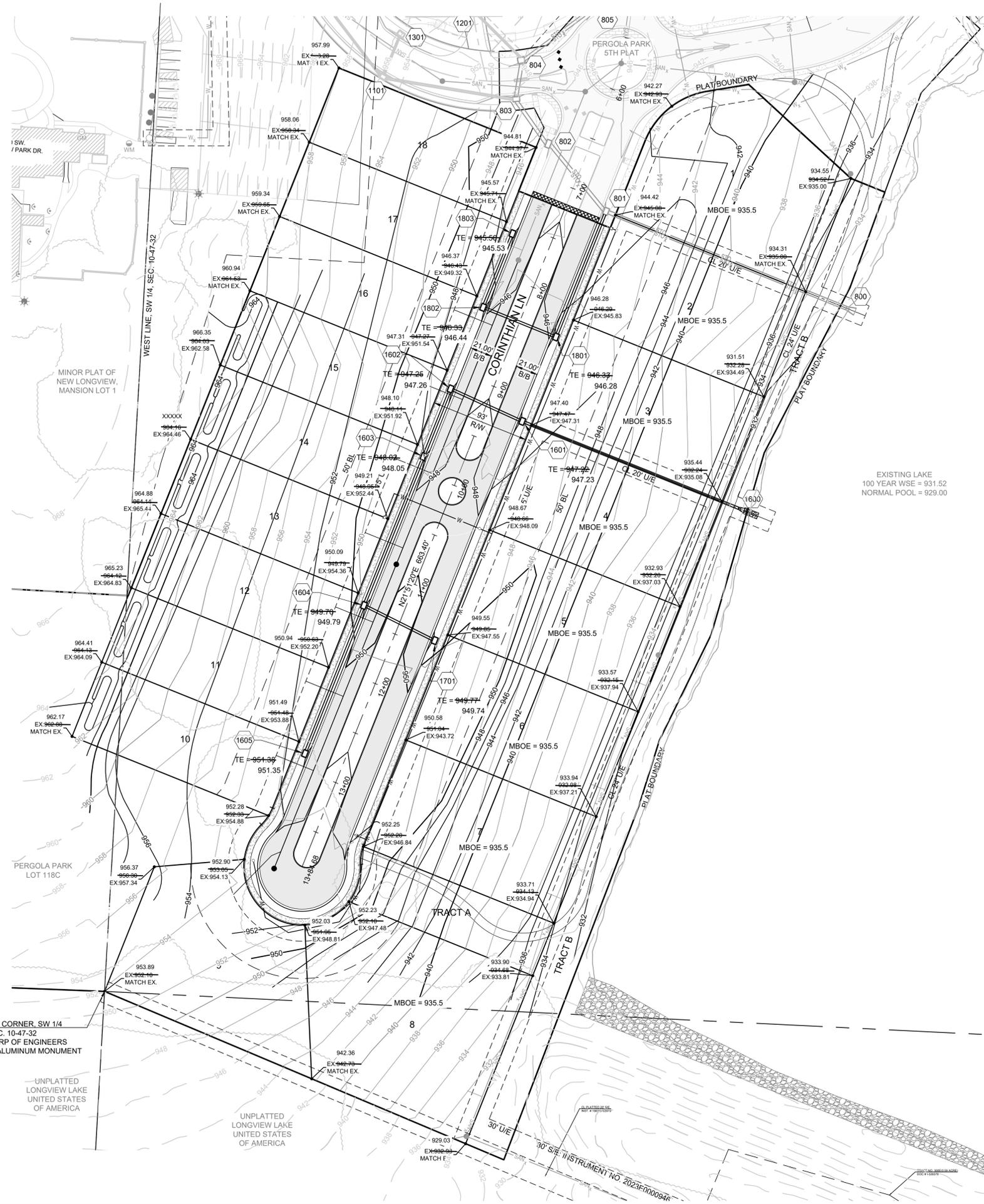


LUMBERMAN'S ROW STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

MASTER DRAINAGE PLAN - GRADING PLAN

I:\PROJECTS\2022\22-034\3.0 Design\3.0 DWG Plans\22-034-SS-GRAD.dwg, 3 MASTER DRAINAGE PLAN - GRADING PLAN, 8/8/2023, 2:08:10 PM, 1:1



LOT TYPE TABLE

LOT #	BASEMENT TYPE	FRONT MBOE	REAR MBOE	AS-BUILT FRONT MBOE	AS-BUILT REAR MBOE
1	WALKOUT	945.60	935.50	944.90	935.50
2	WALKOUT	946.40	935.50	946.80	935.50
3	WALKOUT	948.00	935.50	947.90	935.50
4	WALKOUT	948.60	935.50	949.20	935.50
5	WALKOUT	950.40	935.50	950.05	935.50
6	WALKOUT	951.60	935.50	951.10	935.50
7	WALKOUT	947.40	935.50	952.75	935.50
8	WALKOUT	952.00	935.50	952.75	935.50
9	STANDARD	953.60	952.60	953.40	954.40
10	STANDARD	952.90	952.90	952.80	952.80
11	STANDARD	952.00	952.00	952.00	952.00
12	STANDARD	951.20	951.20	951.50	951.50
13	STANDARD	950.30	950.30	950.60	950.60
14	STANDARD	949.50	949.50	949.70	949.70
15	STANDARD	948.70	948.70	948.60	948.60
16	STANDARD	947.80	947.80	947.80	947.80
17	STANDARD	947.00	947.00	946.90	946.90
18	STANDARD	946.30	946.30	946.10	946.10

ALL LOTS TO REQUIRE AS-GRADED PLOT PLANS

- NOTE:**
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
- 950 — DENOTES PROPOSED MAJOR CONTOUR
 - 950 — DENOTES PROPOSED MINOR CONTOUR
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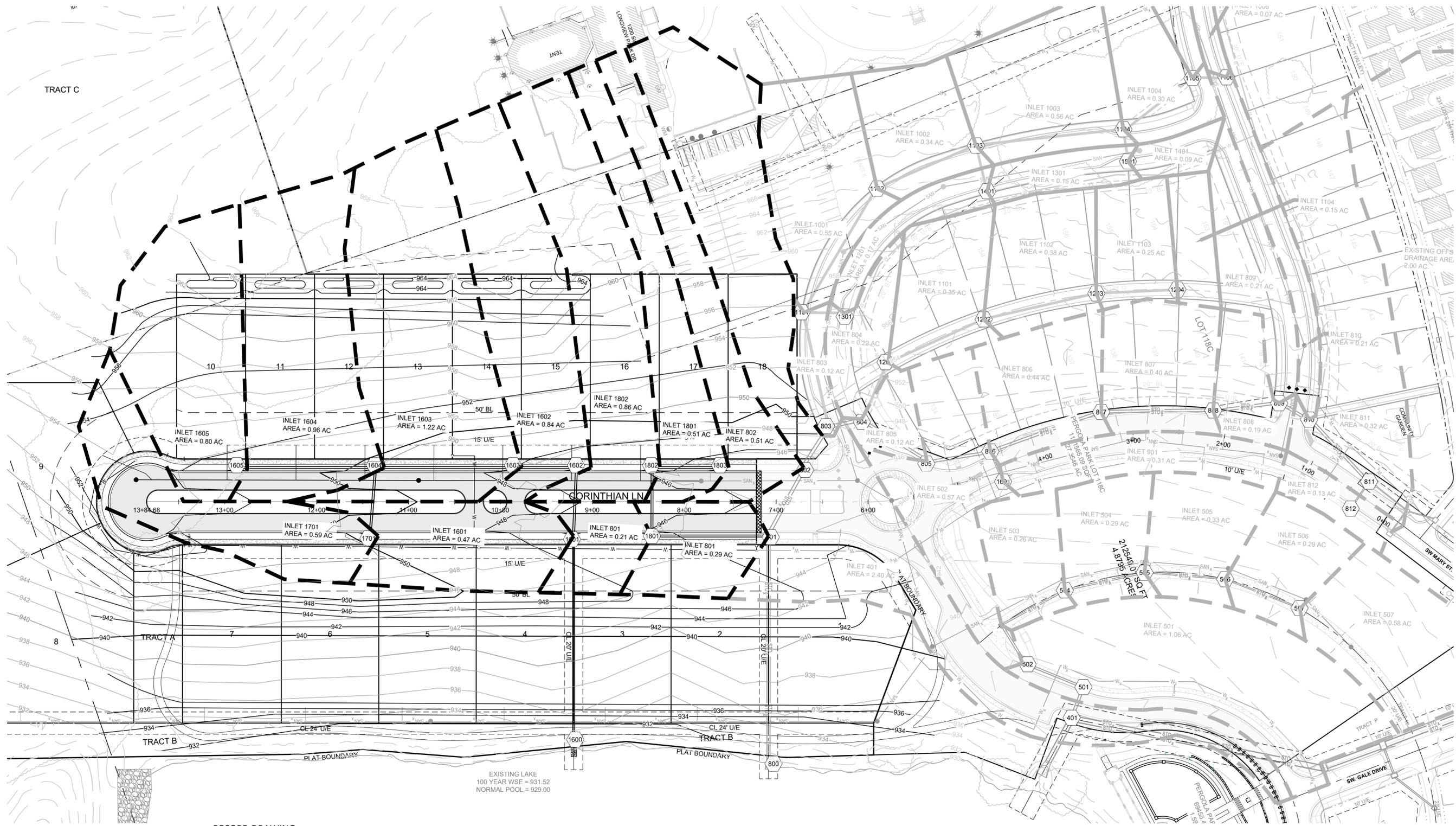
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**LUMBERMAN'S ROW
STREET, STORMWATER, MASTER DRAINAGE
PLAN & EROSION AND SEDIMENT CONTROL
- LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY: BAL
CHECKED BY: MAB
DATE PREPARED: 8-22
PROJ. NUMBER: 22-034



EXISTING LAKE
100 YEAR WISE = 931.52
NORMAL POOL = 929.00

RECORD DRAWING

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"100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 8/8/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlagel and Associates, P.A.

- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- FUTURE DRAINAGE

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

BM JA-148. IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.

ELEV. 935.18

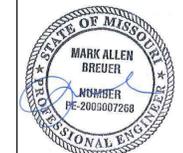
PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09



PREPARED BY:



08.08.2023
 SCHLAGEL & ASSOCIATES, P.A.

LUMBERMAN'S ROW STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

MASTER DRAINAGE PLAN - DRAINAGE MAP

SHEET

PREPARED BY:



08.08.2023
 SCHLAGEL & ASSOCIATES, P.A.

**LUMBERMAN'S ROW
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI**

GUTTER SPREAD AND INLET CAPACITY CALCULATIONS - LUMBERMAN'S ROW

DESIGN STORM: 10
 "K" FACTOR: 1.00
 CURB TYPE "A" = LAZY BACK
 CURB TYPE "B" = HIGH BACK

RUNOFF CALCULATIONS											INLET DESIGN							GUTTER DESIGN				
INLET #	COMPOSITE "C"	AREA	INLET Tc	INTENSITY	RUNOFF	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	BYPASS FROM UPSTREAM INLET	TOTAL RUNOFF	STREET GRADE	STREET CROSS SLOPE	CURB TYPE	INLET LENGTH	EFFECTIVE LENGTH	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	STREET CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW
EXISTING LINE 400																						
401	0.66	2.40	5	7.35	11.64	801	802	803		0.79	12.43	SUMP	2.08	A	8	6.4	17.92	0.00	SUMP	2.08	< 0.21	< 10.50
402	0.66	0.04	5	7.35	0.19	403				0.02	0.21	3.24	2.08	A	6	4.8	0.20	0.00	3.24	2.08	0.06	3.48
403	0.66	0.07	5	7.35	0.34	404				0.01	0.35	3.24	2.08	A	6	4.8	0.33	0.02	3.24	2.08	0.08	4.12
404	0.66	0.06	5	7.35	0.29					0.00	0.29	3.24	2.08	A	6	4.8	0.28	0.01	3.24	2.08	0.07	3.88
EXISTING LINE 500																						
501	0.66	1.06	5	7.35	5.14	402	502			1.09	6.24	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50
502	0.66	0.57	5	7.35	2.77	804	503	806	901	0.84	3.61	1.95	2.08	A	6	4.8	2.52	1.09	1.95	2.08	0.20	10.05
503	0.66	0.26	5	7.35	1.26	504				0.33	1.59	1.49	2.08	A	4	3.2	1.33	0.26	1.49	2.08	0.15	7.89
504	0.66	0.29	5	7.35	1.41	505				0.40	1.81	1.49	2.08	A	4	3.2	1.48	0.33	1.49	2.08	0.16	8.25
505	0.66	0.33	5	7.35	1.60	506				0.41	2.01	1.49	2.08	A	4	3.2	1.61	0.40	1.49	2.08	0.17	8.57
506	0.66	0.29	5	7.35	1.41	507				0.63	2.03	1.49	2.08	A	4	3.2	1.63	0.41	1.49	2.08	0.17	8.60
507	0.66	0.58	5	7.35	2.81					0.00	2.81	1.13	2.08	A	4	3.2	2.19	0.63	1.13	2.08	0.20	10.14
EXISTING LINE 800																						
801	0.51	0.29	5	7.35	1.09	1601	1801			0.25	1.34	1.12	2.08	A	6	4.8	1.25	0.08	1.12	2.08	0.15	7.80
802	0.51	0.51	5	7.35	1.91	1701				0.12	2.04	1.12	2.08	A	6	4.8	1.82	0.21	1.12	2.08	0.18	9.05
803	0.66	0.12	5	7.35	0.58	1101				1.61	2.19	3.00	2.08	A	6	4.8	1.70	0.49	3.00	2.08	0.15	7.81
804	0.66	0.22	5	7.35	1.07	1301	1201			0.67	1.74	3.00	2.08	A	6	4.8	1.43	0.31	3.00	2.08	0.14	7.20
805	0.66	0.12	5	7.35	0.58					0.00	0.58	3.00	2.08	A	6	4.8	0.55	0.03	3.00	2.08	0.09	4.94
806	0.66	0.40	5	7.35	1.94	807				0.23	2.17	1.28	2.08	A	6	4.8	1.90	0.27	1.28	2.08	0.18	9.04
807	0.66	0.40	5	7.35	1.94	808				0.07	2.01	1.28	2.08	A	6	4.8	1.78	0.23	1.28	2.08	0.17	8.80
808	0.66	0.19	5	7.35	0.92	809				0.24	1.16	1.28	2.08	A	6	4.8	1.09	0.07	1.28	2.08	0.14	7.25
809	0.66	0.32	5	7.35	1.55					0.00	1.55	2.75	2.08	A	6	4.8	1.32	0.24	2.75	2.08	0.14	7.03
810	0.66	0.21	5	7.35	1.02	1106				0.00	1.02	2.75	2.08	A	6	4.8	0.92	0.10	2.75	2.08	0.12	6.08
811	0.66	2.32	5	7.35	11.25	810				0.10	11.35	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
812	0.66	0.13	5	7.35	0.63					0.00	0.63	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
EXISTING LINE 1000																						
1001	0.66	0.31	5	7.35	1.50					0.00	1.50	1.28	2.08	A	6	4.8	1.38	0.12	1.28	2.08	0.15	7.94
FUTURE LINE 1100																						
1101	0.66	0.55	5	7.35	2.67	1102				0.77	3.44	6.02	2.08	A	6	4.8	1.83	1.61	6.02	2.08	0.16	8.09
1102	0.66	0.34	5	7.35	1.65	1103				0.59	2.24	6.02	2.08	A	6	4.8	1.47	0.77	6.02	2.08	0.13	6.97
1103	0.66	0.56	5	7.35	2.72	1104				0.15	2.87	1.80	2.08	A	6	4.8	2.28	0.59	1.80	2.08	0.19	9.40
1104	0.66	0.30	5	7.35	1.46	1105				0.01	1.46	1.80	2.08	A	6	4.8	1.31	0.15	1.80	2.08	0.14	7.41
1105	0.66	0.09	5	7.35	0.44					0.00	0.44	1.50	2.08	A	6	4.8	0.43	0.01	1.50	2.08	0.09	5.04
1106	0.66	0.07	5	7.35	0.34					0.00	0.34	1.50	2.08	A	6	4.8	0.34	0.00	1.50	2.08	0.09	4.64
FUTURE LINE 1200																						
1201	0.66	0.35	5	7.35	1.70	1202				0.49	2.19	2.45	2.08	A	4	3.2	1.64	0.55	2.45	2.08	0.16	8.08
1202	0.66	0.38	5	7.35	1.84	1203				0.20	2.05	2.45	2.08	A	4	3.2	1.56	0.49	2.45	2.08	0.15	7.90
1203	0.66	0.25	5	7.35	1.21	1204				0.07	1.28	2.45	2.08	A	4	3.2	1.08	0.20	2.45	2.08	0.13	6.71
1204	0.66	0.15	5	7.35	0.73					0.00	0.73	2.45	2.08	A	4	3.2	0.66	0.07	2.45	2.08	0.10	5.52
FUTURE LINE 1300																						
1301	0.66	0.17	5	7.35	0.82	1401				0.03	0.86	6.02	2.08	A	6	4.8	0.73	0.12	6.02	2.08	0.09	5.01
FUTURE LINE 1400																						
1401	0.66	0.15	5	7.35	0.73	1501				0.01	0.74	1.80	2.08	A	6	4.8	0.70	0.03	1.80	2.08	0.11	5.84
FUTURE LINE 1500																						
1501	0.66	0.09	5	7.35	0.44					0.00	0.44	1.80	2.08	A	6	4.8	0.43	0.01	1.80	2.08	0.09	4.89
LINE 1600																						
1601	0.51	0.47	5	7.35	1.76	1701				0.25	2.01	1.12	2.08	A	6	6	1.81	0.21	1.12	2.08	0.18	9.01
1602	0.51	0.84	5	7.35	3.15	1603				1.47	4.62	1.12	2.08	A	6	6	3.53	1.09	1.12	2.08	0.24	12.13
1603	0.51	1.22	5	7.35	4.57	1604				0.85	5.43	1.12	2.08	A	6	6	3.95	1.47	1.12	2.08	0.26	12.85
1604	0.51	0.96	5	7.35	3.60	1605				0.47	4.07	1.12	2.08	A	6	6	3.21	0.85	1.12	2.08	0.23	11.58
1605	0.51	0.80	5	7.35	3.00					0.00	3.00	1.12	2.08	A	6	6	2.53	0.47	1.12	2.08	0.21	10.39
LINE 1700																						
1701	0.51	0.59	5	7.35	2.21					0.00	2.21	1.12	2.08	A	6	6	1.96	0.25	1.12	2.08	0.18	9.32
LINE 1800																						
1801	0.51	0.20	5	7.35	0.75	1601				0.21	0.96	1.12	2.08	A	6	6	0.92	0.04	1.12	2.08	0.13	6.94
1802	0.51	0.86	5	7.35	3.22	1602				1.09	4.31	1.12	2.08	A	6	6	3.36	0.96	1.12	2.08	0.24	11.83
1803	0.51	0.51	5	7.35	1.91	1802				0.96	2.87	1.12	2.08	A	6	6	2.44	0.43	1.12	2.08	0.20	10.22

NOTES:
 1. CAPACITY OF INLETS ON GRADE DETERMINED USING ROUTINE OUTLINED ON PGS 56-95 TO 56-97, SECTION 5600 APWA
 2. CAPACITY OF SUMP INLETS CALCULATED USING FIGURE 5604-21, SECTION 5600 APWA
 3. MANNINGS "n" VALUE FOR COMBINED ASPHALT PAVEMENT AND CONCRETE CURB - 0.014

EXISTING 5TH PLAT

FUTURE 6TH PLAT

RECORD DRAWING

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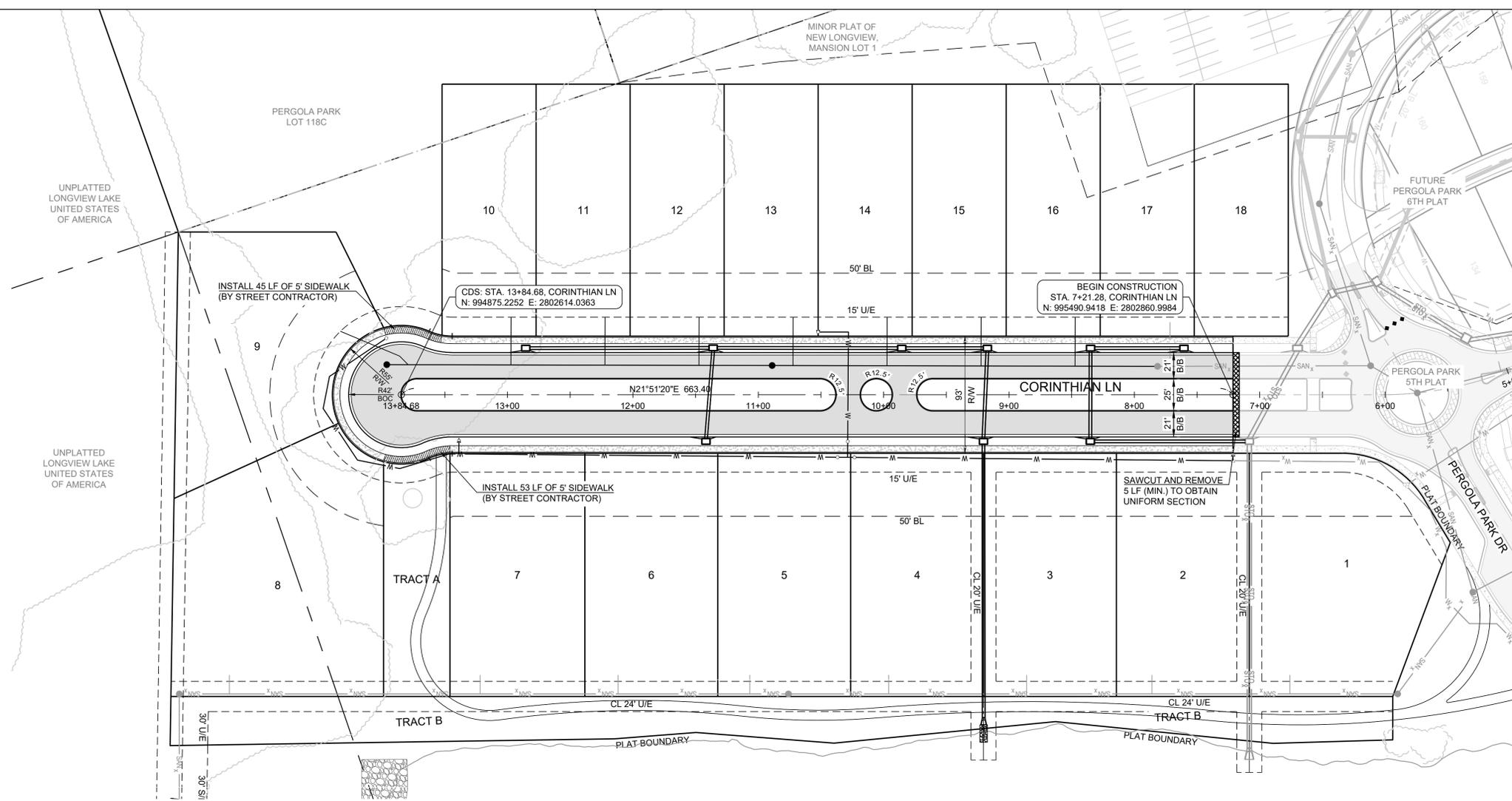
"100:00 100.10", "1:00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 8/8/2023
 Certified by: BAL
 Title: Design Engineer
 Firm: Schlagel and Associates, P.A.

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY: BAL
 CHECKED BY: MAB
 DATE PREPARED: 8-8-23
 PROJ. NUMBER: 22-034

MASTER DRAINAGE PLAN - DRAINAGE CALCS CONT SHEET



RECORD DRAWING

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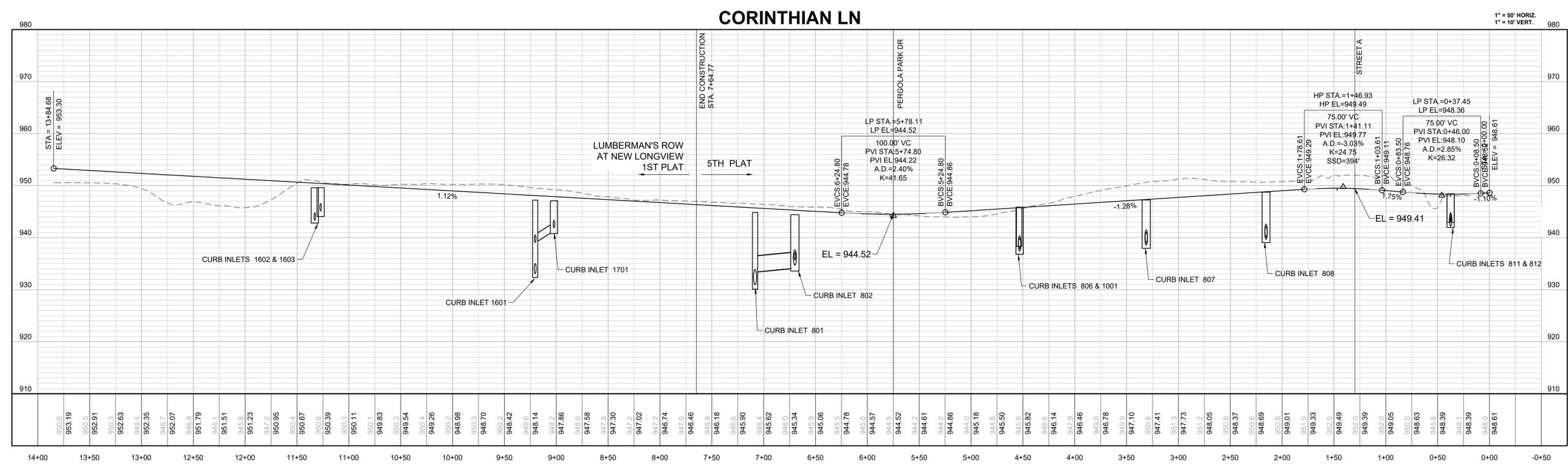
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NOTE:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION

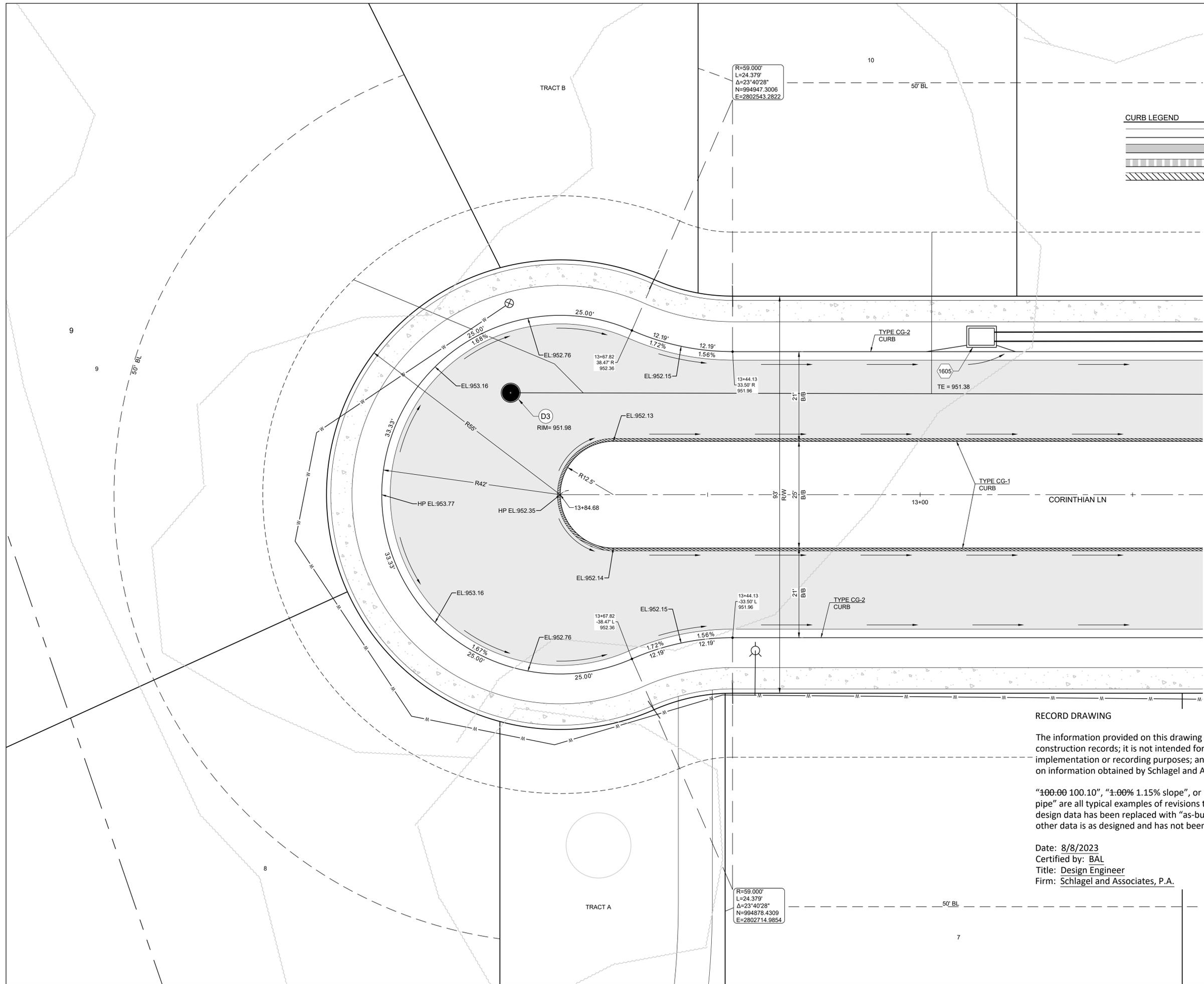


REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY: BAL	CHECKED BY: MAB	DATE PREPARED: 8-6-22	PROJ. NUMBER: 22-034
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CORINTHIAN LANE PLAN & PROFILE

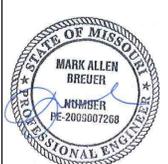
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CURB LEGEND

	TYPE "CG-2" CURB & GUTTER
	TYPE "CG-2" DRY CURB & GUTTER
	TYPE "CG-1" DRY CURB AND GUTTER
	TYPE C-1 CURB

PREPARED BY:



08.08.2023
 SCHLAGEL & ASSOCIATES, P.A.

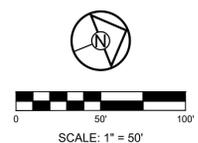
**LUMBERMAN'S ROW
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL**
 - LEE'S SUMMIT, MISSOURI

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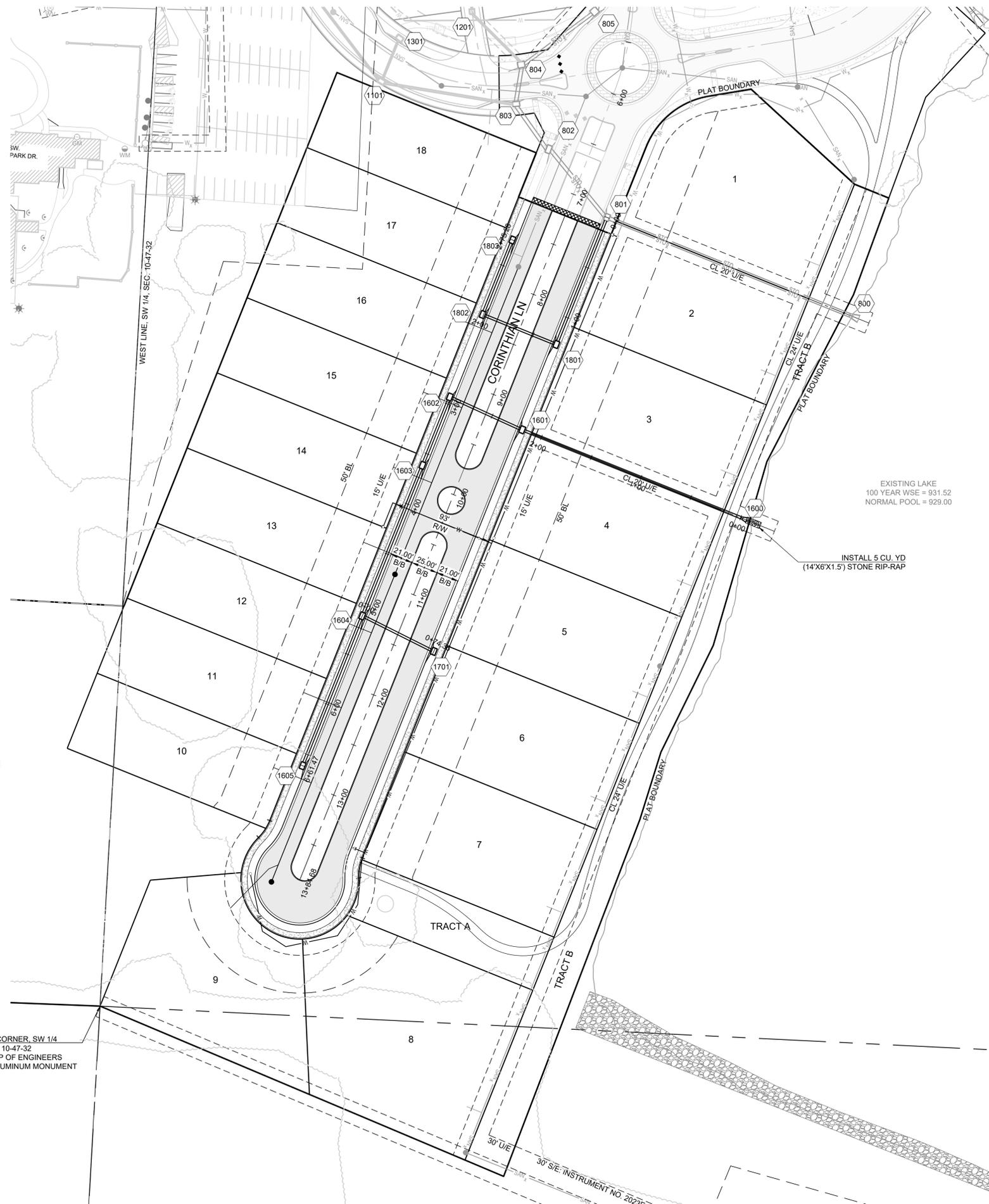


REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY: BAL	CHECKED BY: MAB	DATE PREPARED: 8-22	PROJ. NUMBER: 22-034
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**INTERSECTION
 DETAILS**

I:\PROJECTS\2022\22-034\3.0 Design\3.0 DWG Plans\8.0 SS\22-034-SS-INT.dwg, 13 INTERSECTION DETAILS, 8/8/2023 2:10:20 PM, 1:1



Storm Sewer Construction Notes	
Structure	Notes
1600	STA 0+00.00, LINE 1600 INSTALL 24" END SECTION N 995210.9684 E 2803024.6861
1601	STA 2+19.15, LINE 1600 INSTALL 6 X 4 CURB INLET N 995292.4188 E 2802821.2367
1602	STA 2+93.21, LINE 1600 INSTALL 6 X 4 CURB INLET N 995322.8093 E 2802753.6956
1603	STA 3+61.48, LINE 1600 INSTALL 6 X 4 CURB INLET N 995259.4452 E 2802728.2804
1604	STA 5+11.90, LINE 1600 INSTALL 6 X 4 CURB INLET N 995119.8888 E 2802672.1517
1605	STA 6+61.47, LINE 1600 INSTALL 6 X 4 CURB INLET N 994981.0210 E 2802616.6054
1701	STA 0+74.36, LINE 1700 INSTALL 6 X 4 CURB INLET N 995086.9954 E 2802738.8420
1801	STA 1+26.83, LINE 1800 INSTALL 6 X 4 CURB INLET N 995371.5190 E 2802852.9636
1802	STA 2+00.83, LINE 1800 INSTALL 6 X 4 CURB INLET N 995399.2288 E 2802784.3473
1803	STA 2+75.28, LINE 1800 INSTALL 6 X 4 CURB INLET N 995468.3281 E 2802812.0628

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MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.
 ELEV. 935.18

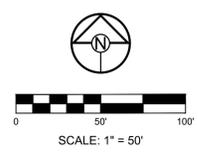
PROJECT BENCHMARK:

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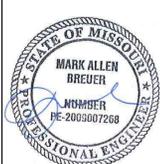
NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV. 1004.09

SURVEY NOTES

The bases of bearing and coordinates are base on the Missouri Coordinate System of 1983, West Zone (2003 Adjustment) with a Grid Factor of 0.9999020.



PREPARED BY:



08.08.2023
 SCHLAGEL & ASSOCIATES, P.A.

LUMBERMAN'S ROW STREET, STORMWATER, MASTER DRAINAGE PLAN & EROSION AND SEDIMENT CONTROL - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

STORM PLAN

DRAWN BY: BAL
 CHECKED BY: MAB
 DATE PREPARED: 8-22
 PROJ. NUMBER: 22-534

SHEET
10

I:\PROJECTS\2022\22-534\3.0 Design\3.0 DWG Plans\8.0 SS-22-534-SS-STORM PP.dwg, 14 STORM PLAN, 8/8/2023 2:11:19 PM, 11

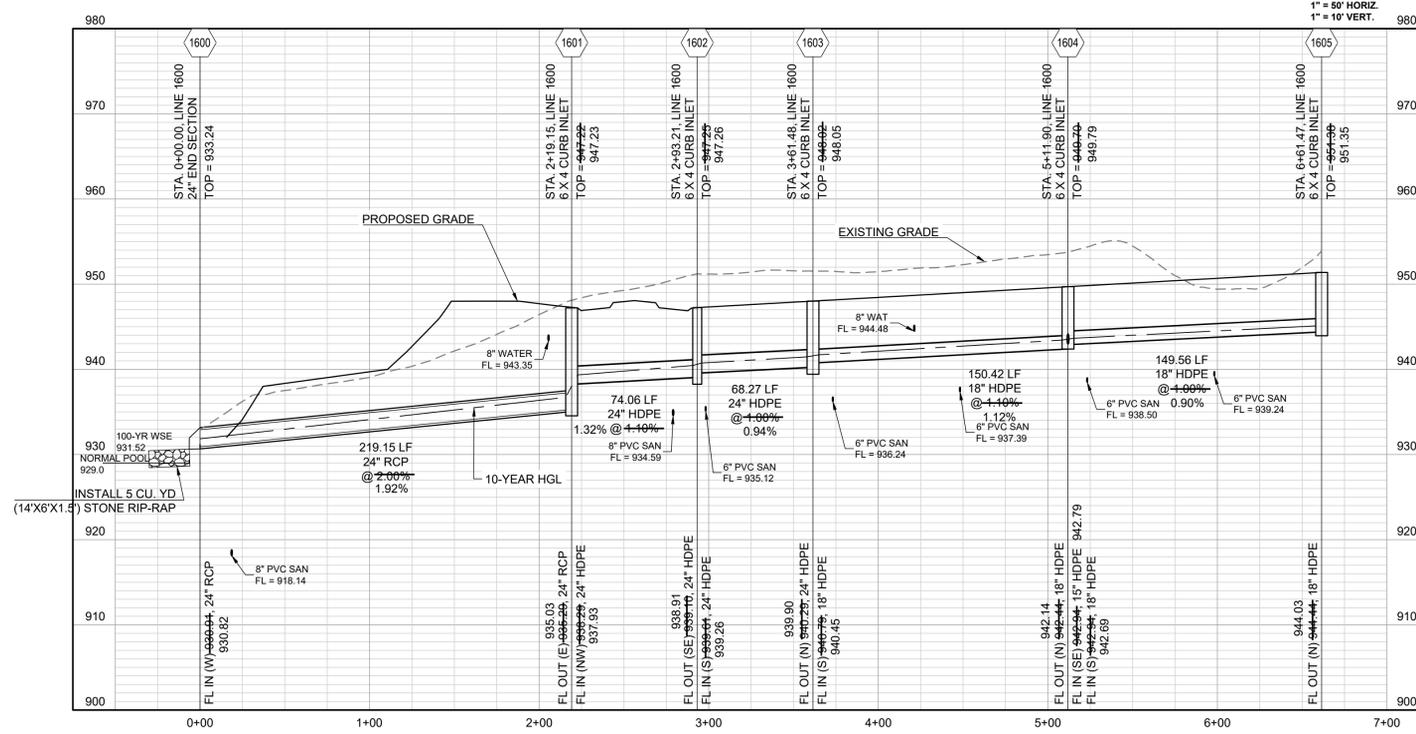
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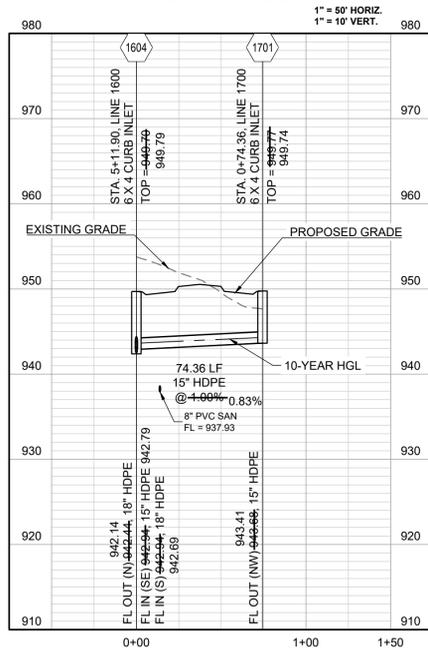
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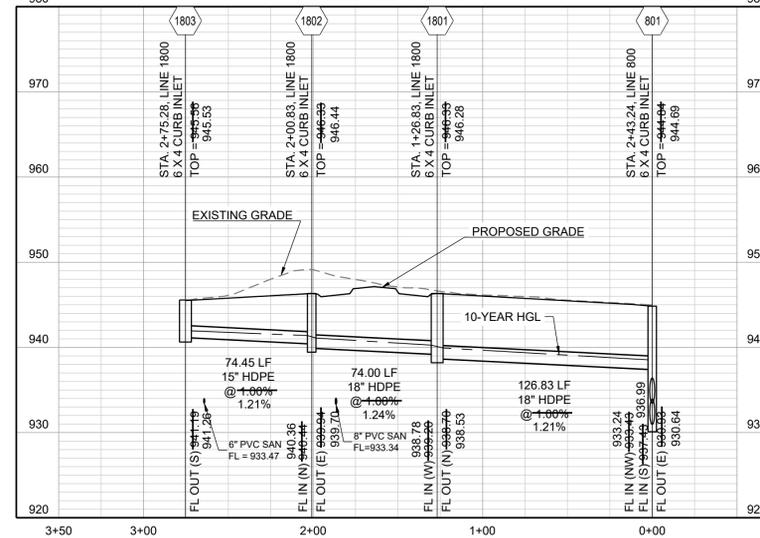
LINE 1600



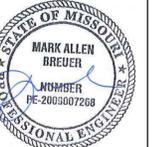
LINE 1700



LINE 1800



PREPARED BY:



08.08.2023

SCHLAGEL & ASSOCIATES, P.A.

LUMBERMAN'S ROW
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN & EROSION AND SEDIMENT CONTROL
 - LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

STORM PROFILES

SHEET

I:\PROJECTS\2022\22-0343-0 SS\22-034-SS-STORM PP.dwg, 15 STORM PROFILES, 8/8/2023 2:11:39 PM, 11

TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES

Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	MoDOT Type 5 Base (in.)	Geogrid(1)	Chemical Subgrade Stabilization(2) (in.)
Residential Local/Access	A	2	4	6	--	6
	B	2	4	10	Geogrid	--
Residential Collector	A	2	5.5	6	--	9
	B	2	5.5	12	Geogrid	--
Commercial Industrial Local/Collector	A	2	7.5	6	--	9
	B	2	7.5	12	Geogrid	--

TABLE LS-3: MINIMUM PCC PAVEMENT THICKNESSES

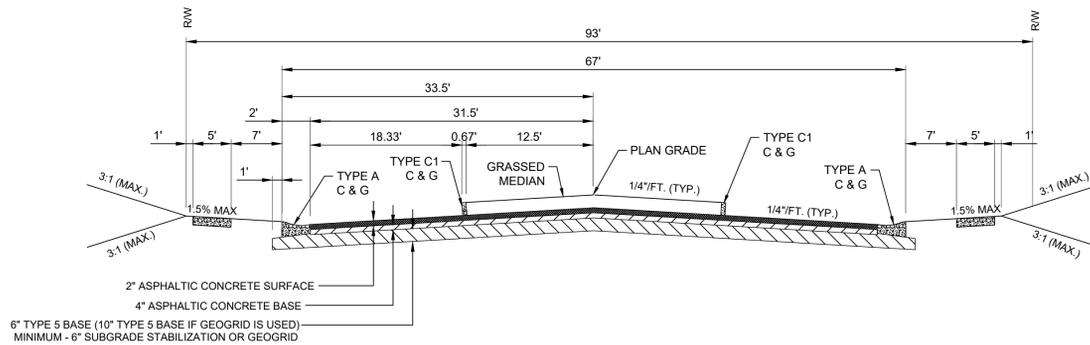
Street Classification	PCC (in.)	Aggregate Base (in.)	Subgrade Stabilization ⁽¹⁾ (in.)
Residential Local/Access	6	4	--
Residential Collector	6	4	6
Commercial Industrial Local/Collector	8	4	9

(1) Subgrade Stabilization and 4" aggregate base may be replaced by approved geogrid and 6" of aggregate base

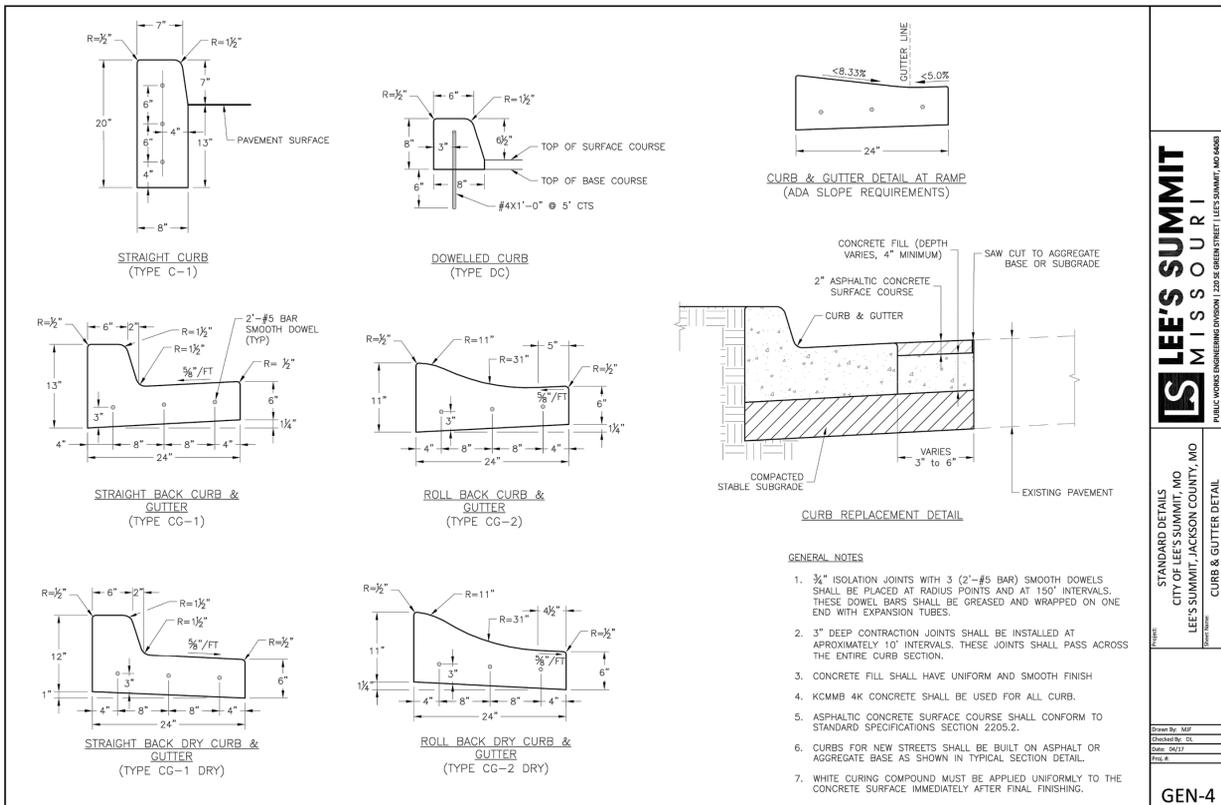
LS5200

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October 2016

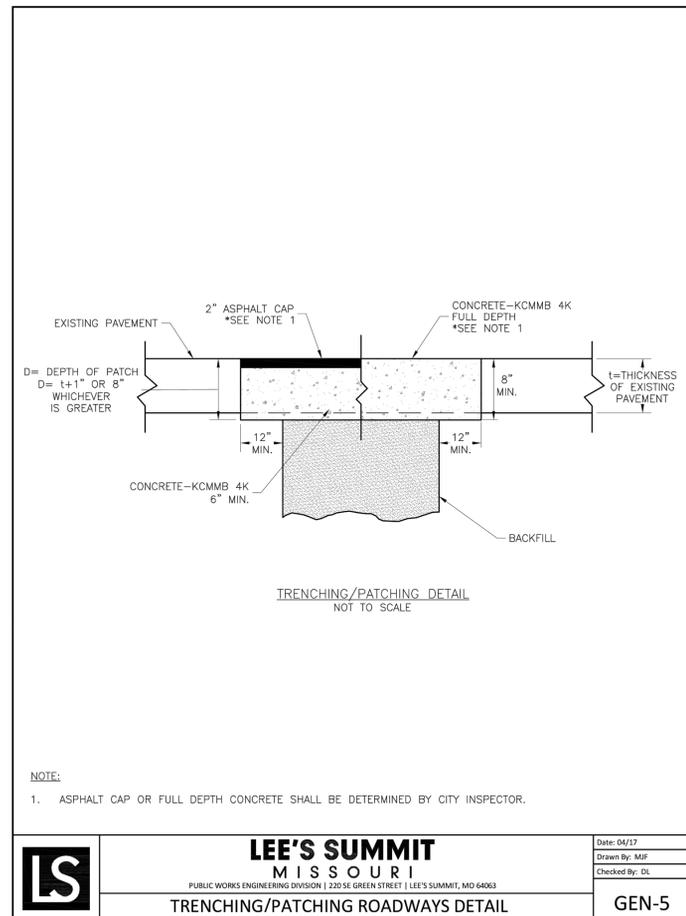


BLUE RIBBON DIVIDED STREET STA. 7+21.28 TO 13+84.68
NTS



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 E. GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL
GEN-4



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 2205 E. GREEN STREET | LEE'S SUMMIT, MO 64063
TRENCHING/PATCHING ROADWAYS DETAIL
GEN-5

REVISION DATE	DESCRIPTION
8-12-22	CITY COMMENTS
8-8-23	AS-BUILTS

DRAWN BY:	CHECKED BY:	DATE PREPARED:	PROJ. NUMBER:
BAL	MAB	8-6-22	22-034

