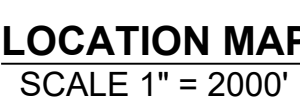
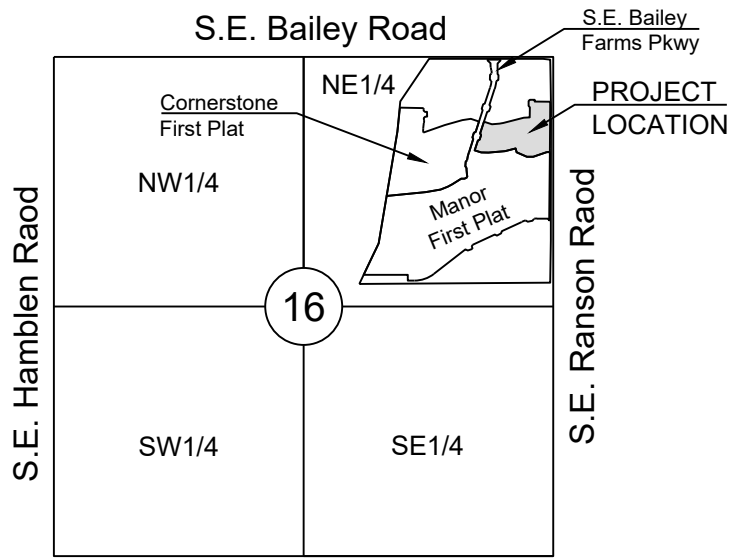


STREET, STORMWATER, AND MASTER DRAINAGE PLAN FOR RETREAT AT BAILEY FARMS, FIRST PLAT

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

- ACCESS EASEMENT
- BACK OF CURB
- BACK TO BACK
- BENCHMARK
- BUILDING LINE
- CLEANOUT
- TELEPHONE JUNCTION BOX
- CURB AND GUTTER
- DRAINAGE EASEMENT
- ELECTRICAL EASEMENT
- ELEVATION
- FLOW LINE
- GAS LINE EASEMENT
- HIGH-DENSITY POLYETHYLENE
- LANDSCAPE EASEMENT
- MINIMUM SERVICEABLE FLOOR ELEVATION
- POLYVINYL CHLORIDE
- PROPERTY LINE
- PUBLIC EASEMENT
- REINFORCED CONCRETE PIPE
- RIGHT-OF-WAY
- SANITARY SEWER EASEMENT
- SERVICE LINE
- SIDEWALK
- TOP ELEVATION
- UTILITY EASEMENT
- WATER SURFACE ELEVATION
- WATERLINE EASEMENT



ANALYSIS OF BEARINGS MISSOURI COORDINATE SYSTEM 1983, WEST ZONE

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

KANSAS CITY POWER & LIGHT
COMPANY (KCP&L)

Ron DeJarnette
1300 SE Hamblin Road
Lee's Summit, MO 64081
Office: (816) 347-4316
Cell: (816) 810-5234
ron.dejarnette@kcpl.com

CITY OF LEES SUMMIT PUBLIC WORKS

Dena Mezger
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 6405
(816) 795-2257

CITY OF LEE'S SUMMIT WATER UTILITIES

Mark Schaufler
1200 SE Hamblen Road
Lee's Summit, MO 64081
(816) 969-1900

SUMMARY OF QUANTITIES			
	ITEM	QUANTITY	UNITS
1	CLEARING AND GRUBBING	1	LS
2	GRADING	1	LS
3	6" ASPHALT PAVEMENT - LOCAL-RESIDENTIAL STREET	3,100	SY
4	FLY-ASH OR COMPACTED AGGREGATE BASE	3,743	SY
5	TYPE CG-2 CURB AND GUTTER (INLET TRANSITIONS NOT INCLUDED) SUBSIDIARY TO CG-2 IS ALL CG-2 DRY NEEDED	1,771	LF
6	TYPE A SIDEWALK RAMP	2	EA
7	5' CONCRETE SIDEWALK	36	LF
8	10' CONCRETE TRAIL	174	LF
9	4'x4' JUNCTION BOX	1	EA
10	6'x4' CURB INLET	8	EA
11	4'x4' FIELD INLET	1	EA
12	18" RCP	108	LF
13	15" HDPE	560	LF
14	18" HDPE	172	LF
15	24" HDPE	106	LF
16	TURF REINFORCEMENT MAT	206	SY
17	END OF ROAD MARKERS (OM 4-1)	6	EA
18	SIGNAGE	1	LS
19	EROSION CONTROL	1	LS
20	SEEDING AND MULCHING	1	LS

GENERAL NOTES:

1. ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PLOT AREAS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
4. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
5. 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.
6. 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 OR OBTAINING ANY 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.
7. 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 ENGINEER FOR APPROVAL REQUEST.
8. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
9. 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.
10. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
11. ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
14. THE CONTRACTOR SHALL CONTACT DEVELOPMENT SERVICES INSPECTIONS AT: 816-969-1200 TO OBTAIN A PERMIT SERVICES CONSTRUCTION PERMIT. A MINIMUM 48 HOUR NOTICE SHALL BE GIVEN PRIOR TO PERMIT ISSUANCE.
15. 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.
16. 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).

EARTHWORK:

1. It is recommended that a Geotechnical Engineer observe and document all earthwork activities.
2. 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.
3. The existing site topography depicted on the plans by contouring has been established by aerial photography and field verified by a p.s. observation near 2-20-19. The contour elevations provided may not be exact ground elevations, but rather information of facts. 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.
4. Proposed contours are to approximate finished grade.
5. 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.
6. Unless otherwise noted, all earthwork is considered Unclassified. No additional compensation will be provided for rock or shale excavation, unless specifically stated otherwise.
7. 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.
8. 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.
9. 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).
10. 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 bench stepped.
11. 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.
12. All areas shall be graded for positive drainage. Unless noted otherwise the following grades shall apply:
 - a. Turf Areas – 2.5% Minimum, 4H:1V Maximum
 - b. Paved Areas – 1.2% Minimum, 5% Maximum
13. 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.
14. All disturbed areas in the right-of-way shall be sodded.
15. Underdrains are recommended for all paved areas adjacent to irrigated turf and landscaped beds.
16. 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 keep clean of silt and debris and in good working order. Additional erosion and sediment control measures shall be installed as required.

UTILITIES:

1. 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.
2. The Contractor shall be responsible for obtaining any required permits and relocations. Utilities damaged through the negligence of the Contractor shall be repaired at the Contractor's expense.
3. 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.
4. Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary onsite adaptive laterals, as measured from edge to edge. If minimum separations cannot be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.
5. 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.
6. 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.
7. Trenching shall be made to the bottom of the trench and the trench shall be backfilled to original 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 waste onsite at the direction of the Owner or his appointed representative.
8. 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 unit price quantities. The unit price quantities shall be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is responsible for disposal of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT
3	MASTER DRAINAGE PLAN-GRADING PLAN
4	SE WINDBREAK DR PLAN AND PROFILE
5	SE VANTAGE POINT DR PLAN AND PROFILE
6	INTERSECTION DETAILS
7	MASTER DRAINAGE PLAN-DRAINAGE MAP
8	MASTER DRAINAGE PLAN-DRAINAGE CALCS
9	STORM PLAN
10	STORM PROFILE
11	STREET DETAILS
12	STREET DETAILS
13	STORM DETAILS
14	STORM DETAILS
15	SIGN PLAN
16	SIGN DETAILS

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

APPROVED BY:

CITY ENGINEER
APPROVED FOR ONE YEAR FROM THIS DATE

OWNER/DEVELOPER:

CLAYTON PROPERTIES GROUP INC., DBA SUMMIT HOMES
BRADLEY KEMPF
120 SE 30TH STREET
LEE'S SUMMIT, MO 64082
p (816) 246-6700
BRADLEY@SUMMITHOMESKC.COM

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM**
BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

Revision	Description
1	PER CITY COMMENTS
2	PER CITY COMMENTS DATED 02/25/2022
3	ADD FIELD INLET
4	REVISE FIELD INLET
5	REVISED INLET 109 TO MATCH S1 INLET
6	Updated City Details to 2023 Details
7	Added "New City Requirements" Note
8	As-Built

COVER SHEET

SHEET

RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

Date: 04/01/2025

Certified by: JLL
Title: Senior Project Engineer
Firm: Schlagel and Associates, P.A.



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ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

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STREET LEGEND:

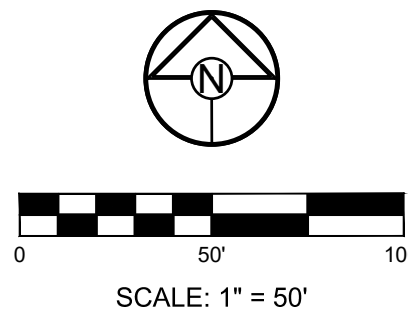
RESIDENTIAL LOCAL

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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: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.



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Missouri State Certificates of Authority
#E2002003600-F #LAC2001005237 #LS2002008659-F

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

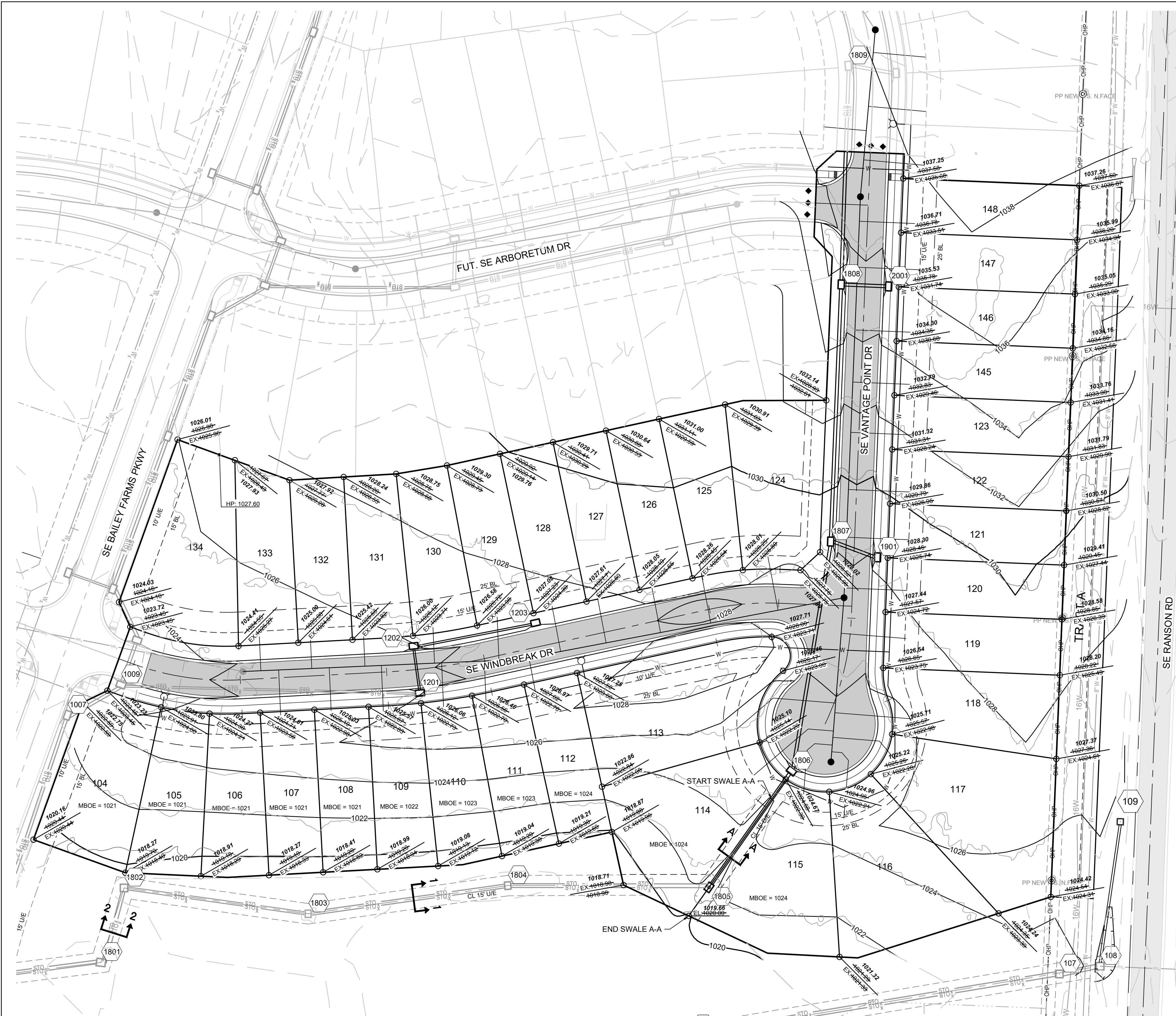
RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION	DATE	DESCRIPTION
1	03/21/2022	PER CITY COMMENTS
2	04/20/2022	PER CITY COMMENTS DATED 02/25/2022
3	08/25/2022	ADD FIELD INLET
4	09/08/2022	REVISED FIELD INLET
5	11/01/2022	REVISED INLET 09 TO MCDOT S1 INLET
6	10/27/2023	Updated City Details to 2023 Details
7	11/30/2023	Added "New City Requirements" Note
8	04/02/2025	As-Built

GENERAL LAYOUT

SHEET

2



GRADING LEGEND:

- HP 000.00 DENOTES LOT HIGH POINT ELEVATION
- EL.000.00 DENOTES FINISHED AS-BUILT GRADE ELEVATION
- EL.000.00 (EX.) DENOTES EXISTING GRADE ELEVATION
- 1023 DENOTES PROPOSED MAJOR CONTOUR
- 1023 DENOTES PROPOSED MINOR CONTOUR
- 1023 DENOTES EXISTING MAJOR CONTOUR
- 1023 DENOTES EXISTING MINOR CONTOUR
- 1023 DENOTES AS-BUILT MAJOR CONTOUR
- 1023 DENOTES AS-BUILT MINOR CONTOUR
- MWSE

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

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ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:

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LOT TYPE TABLE		
LOT NUMBER	BASEMENT TYPE	MBOE
104	DAYLIGHT	1021
105	DAYLIGHT	1021
106	DAYLIGHT	1021
107	DAYLIGHT	1021
108	DAYLIGHT	1021
109	DAYLIGHT	1022
110	DAYLIGHT	1023
111	DAYLIGHT	1023
112	DAYLIGHT	1024
113	STANDARD	1026
114	STANDARD	1024
115	STANDARD	1024
116	STANDARD	
117	STANDARD	
118	STANDARD	
119	STANDARD	
120	STANDARD	
121	STANDARD	
122	STANDARD	
123	STANDARD	
145	STANDARD	
146	STANDARD	
147	STANDARD	
148	STANDARD	
124	STANDARD	
125	STANDARD	
126	STANDARD	
127	STANDARD	
128	STANDARD	
129	STANDARD	
130	STANDARD	
131	STANDARD	
132	STANDARD	
133	STANDARD	
134	STANDARD	

NOTES:

- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
- EGL = ENERGY GRADE LINE (100 YR)
- WSE = WATER SURFACE ELEVATION (100 YR)
- ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT. WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
- MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1 FOOT ABOVE TOP OF ADJACENT BERM.

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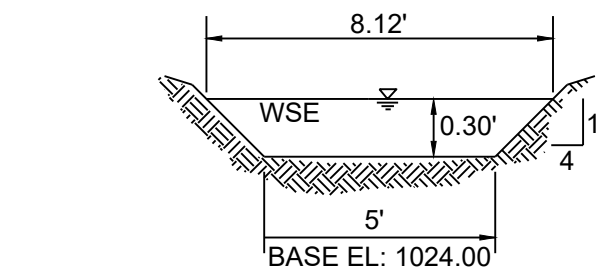
Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

WEIR CALCULATIONS (Q = CLH ^{3/2})							
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	DESIGN OVERFLOW (CFS)	WEIR ELEVATION	WEIR COEFFICIENT	LENGTH	WSE
1	4.07	34.65	34.65	1018.50	3.33	10'-0"	1019.53
2	5.12	43.60	43.60	1018.50	3.33	10'-0"	1019.70

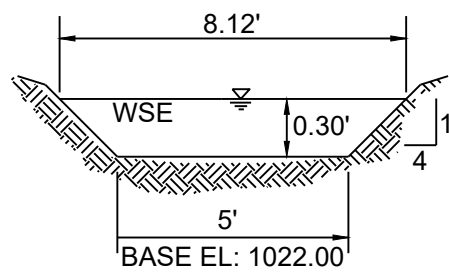
100 YEAR OVERFLOW SWALES									
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)
A-A	3.11	26.50	15.10	11.40	3.80	5	4:1	8.12	0.39

RUNOFF CALCULATIONS:

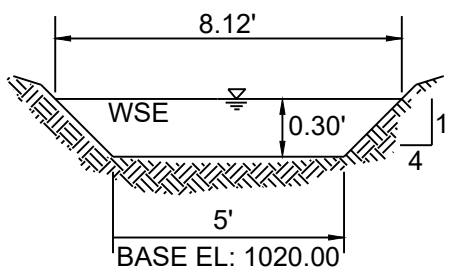
Q = K * C * I * A
K₁₀ = 1.0 K₁₀₀ = 1.25 C = 0.66 I = INTENSITY
DESIGN OVERFLOW = Q_{OVERFLOW} = Q₁₀₀ - Q₁₀
MANNINGS "n" = 0.030 FOR SWALES



100 YEAR OVERFLOW SWALE SECTIONS
START A-A



100 YEAR OVERFLOW SWALE SECTIONS
A-A



100 YEAR OVERFLOW SWALE SECTIONS
END A-A



0 40' 80'
SCALE: 1" = 40'

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PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

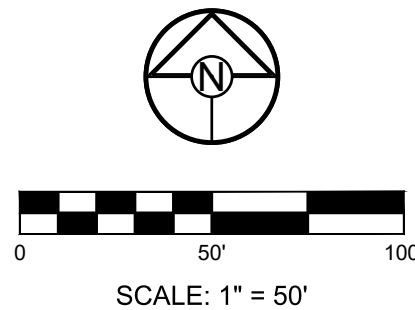
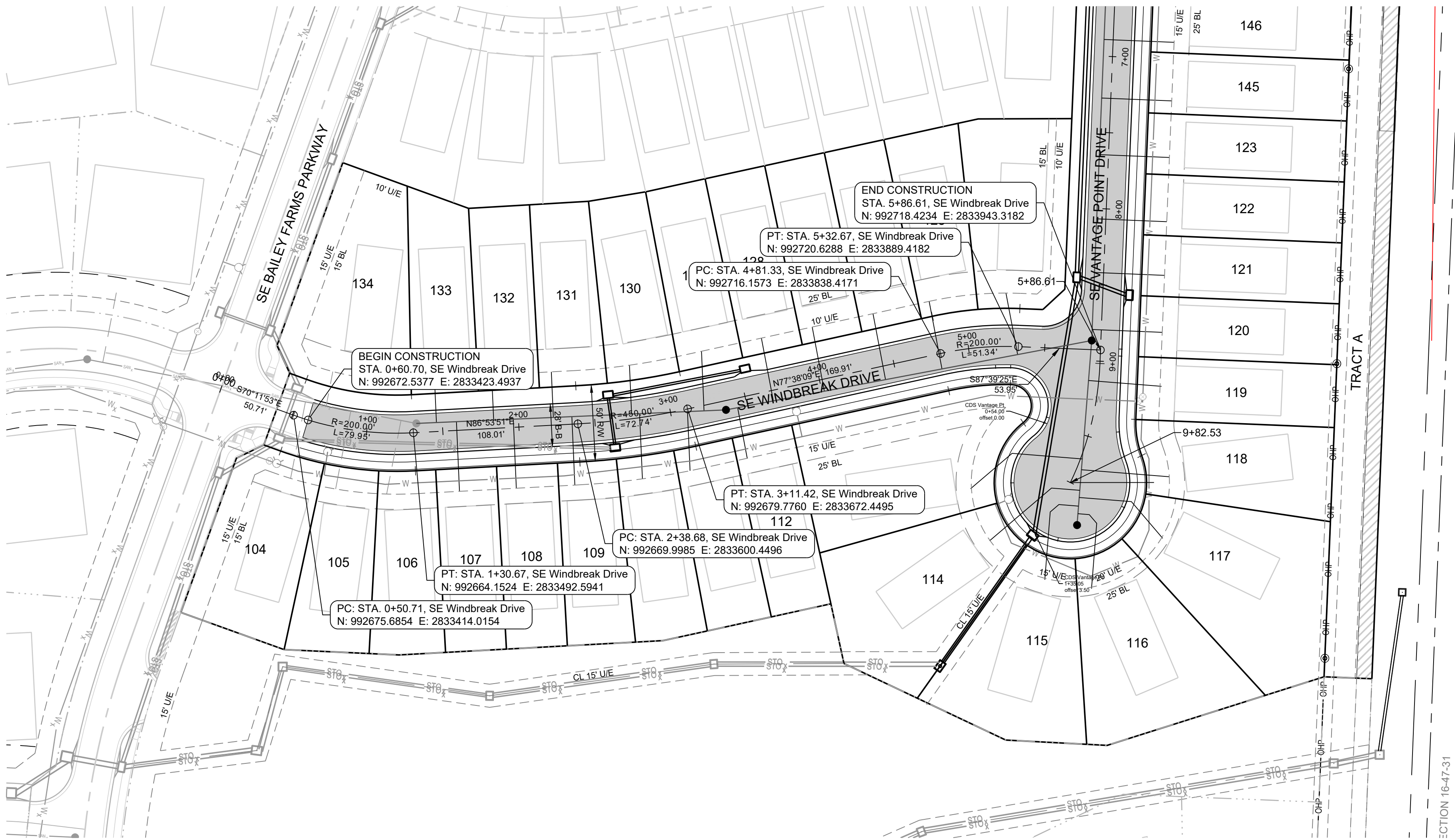
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SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
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04/02/2025	As-Built

MASTER
DRAINAGE
PLAN-GRADING
PLAN

SHEET

3



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

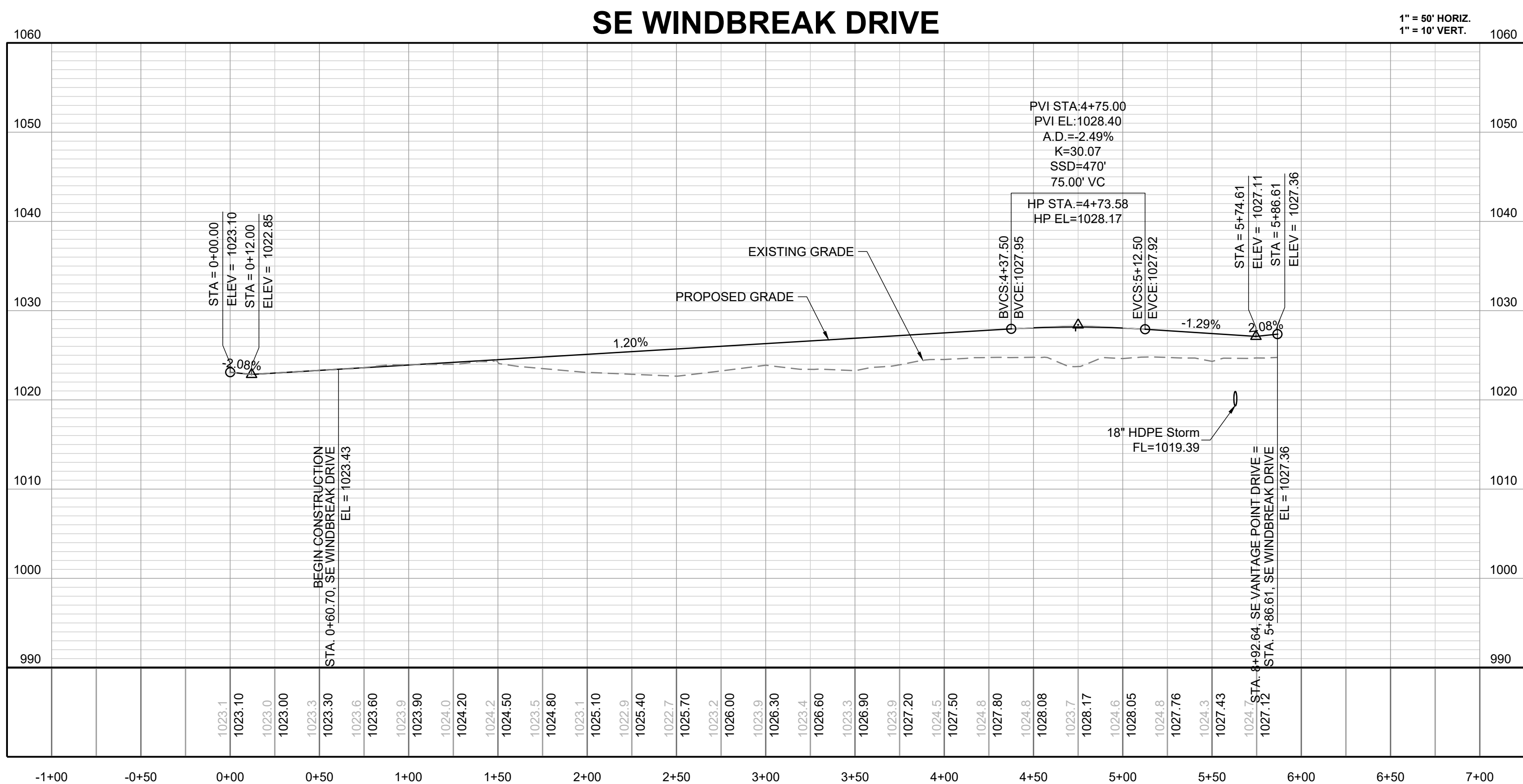
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ELEV. = 1046.25

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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlage! and Associates, P.A.

SCHLAGE!

ENGINEERS

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PREPARED BY:

STATE OF MISSOURI

JAMES L. LONG

NUMBER
PE-2014010195

PROFESSIONAL ENGINEER

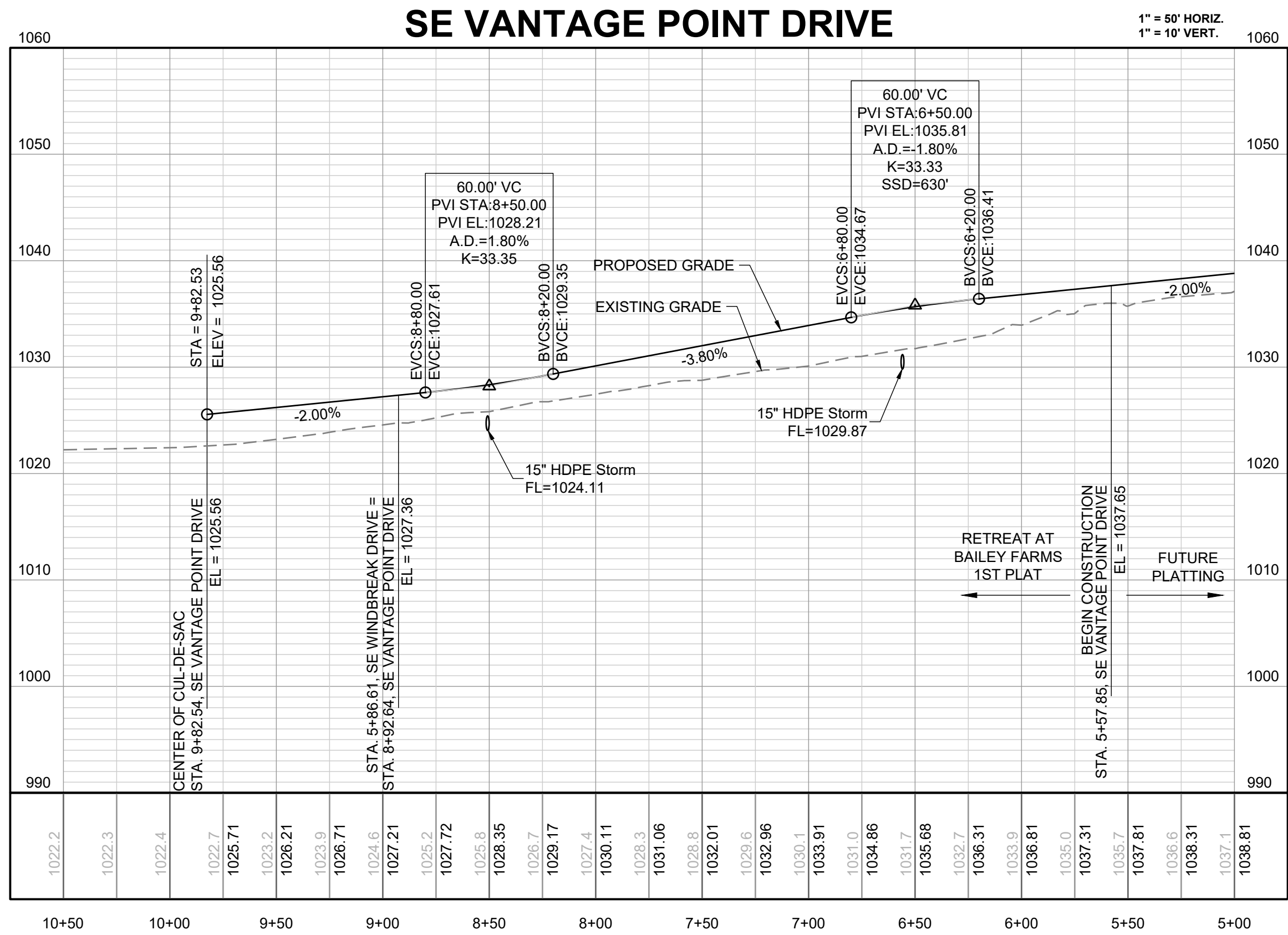
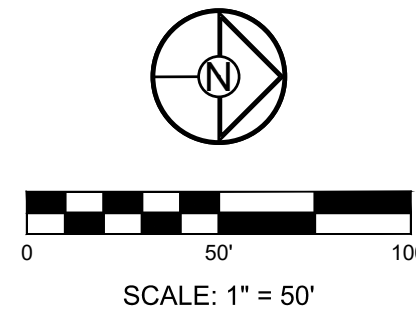
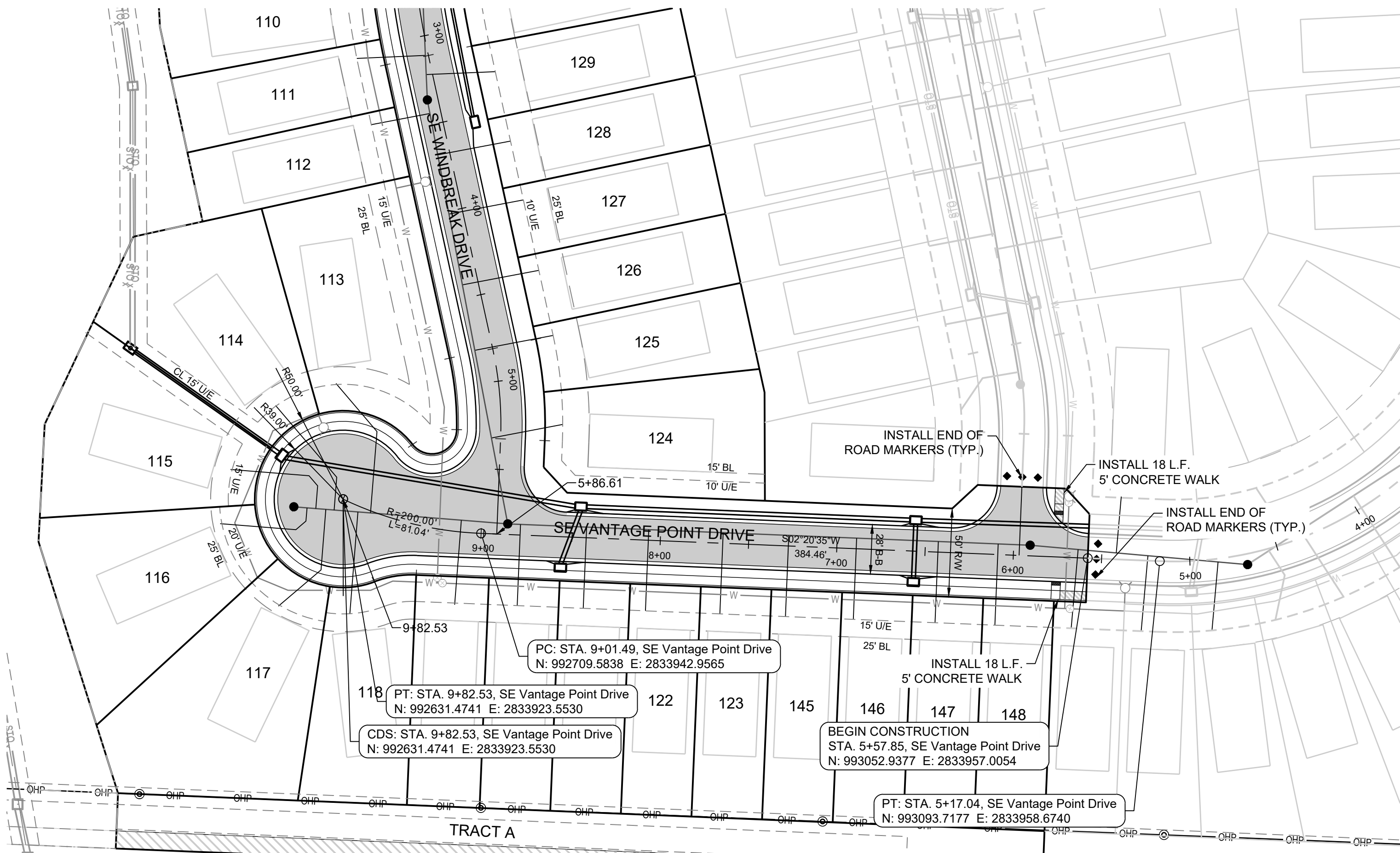
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LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
09/08/2022	REVISE FIELD INLET
11/01/2022	REVISED INLET 09 TO MCDOT S1 INLET
02/09/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

SE WINDBREAK
DR PLAN AND
PROFILE

SHEET
4



RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

4"=100.00 100.10", "4.00% 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: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

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



PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

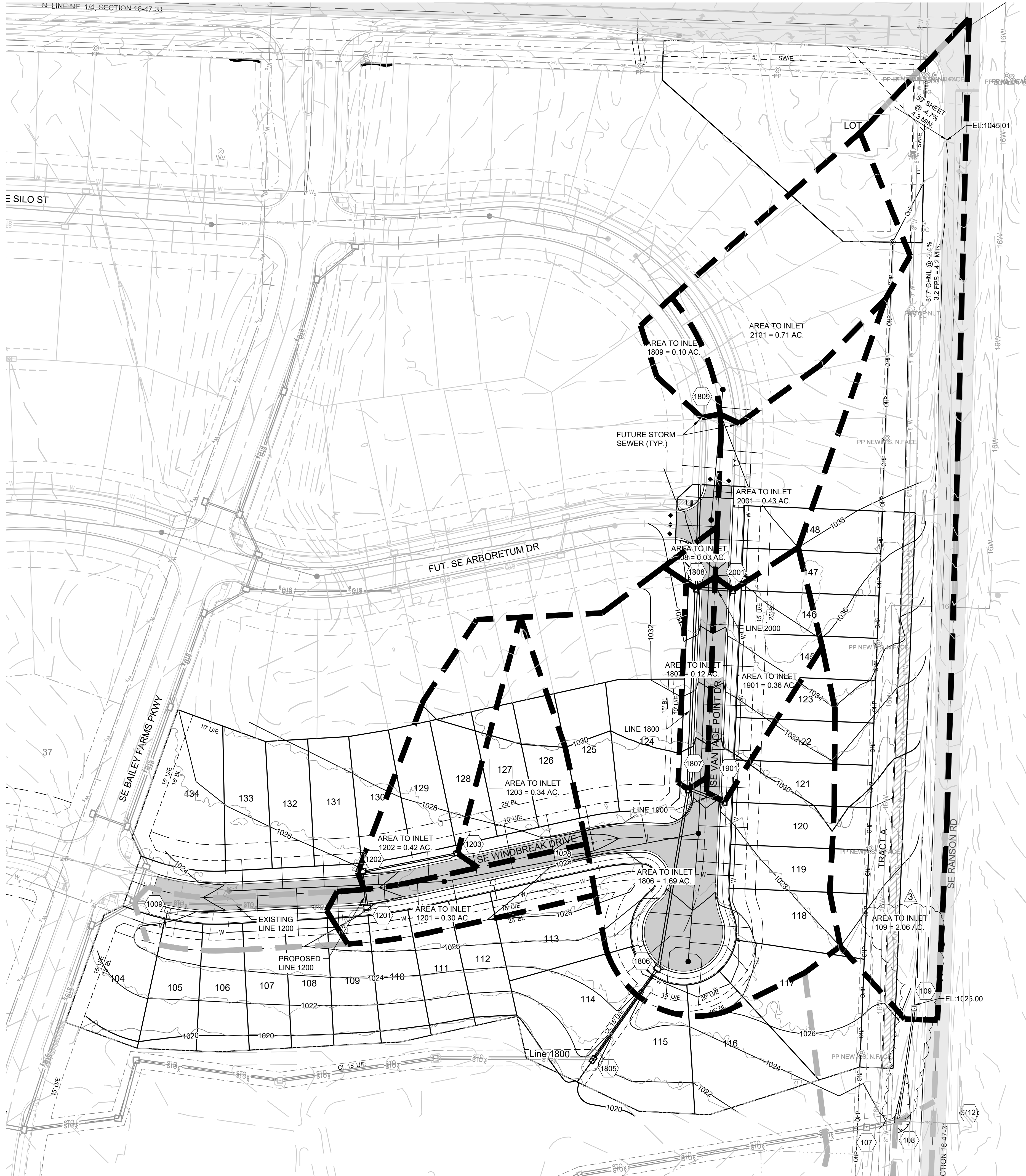
REVISION DATE	DESCRIPTION
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08/25/2022	ADD FIELD INLET
09/08/2022	REVISED FIELD INLET
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02/09/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

DRAWN BY: JRJ	CHECKED BY: JLL	DATE PREPARED: 02/09/2022	PROJ. NUMBER: 21-133
---------------	-----------------	---------------------------	----------------------

SE VANTAGE POINT DR PLAN AND PROFILE
--

SHEET

5



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

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LEGEND

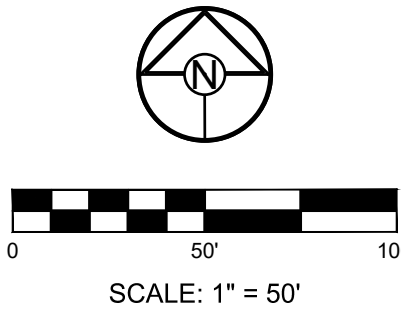
- EXISTING DRAINAGE AREA
- PROPOSED DRAINAGE AREA

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: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.



SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
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(913) 492-5158 • Fax: (913) 492-8400
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Missouri State Certified of Authority
#E2002003600F #LAC2001005237 #LS200200859F

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS DATED 02/25/2022
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
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09/08/2022	REVISED FIELD INLET
11/01/2022	REVISED INLET 09 TO MATCH S1 INLET
02/09/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

MASTER
DRAINAGE
PLAN-DRAINAGE
MAP

SHEET

7

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

SCHLAGEL
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Missouri State Certificates of Authority
#E200200380/F #LAC200108527 #LS2002009855-F

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
1. 03/21/2022	PER CITY COMMENTS
2. 04/20/2022	PER CITY COMMENTS DATED 02/25/2022
3. 08/25/2022	ADD FIELD INLET
4. 09/08/2022	REVISED FIELD INLET
5. 11/01/2022	REVISED INLET 109 TO MODOT S1 INLET
6. 10/27/2023	Updated City Details to 2023 Details
7. 11/30/2023	Added "New City Requirements" Note
8. 04/02/2025	As-Built

DRAWN BY:	JRJ
CHECKED BY:	JLL
DATE PREPARED:	2/09/2022
PROJECT NUMBER:	

8

Design Storm:	10
"K" Value:	1.00
"F" Factor:	1.00

Runoff Calculations														Pipe Properties													
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	To	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top		
DS TAILWATER @ STR #100																											
LINE 100																											
108	13.00	0.51	2.06	7.66	15.0	5.18	34.33	39.66	81.69	11.56			0.00	0.00	108	107	RCP	0.013	36	30.70	1.50	0.50	1018.77	1018.31	1024.32		
109	2.06	0.50	15.06	1.03	8.5	6.41	6.60	6.60	27.66	8.80			0.00	0.00	109	108	RCP	0.013	24	107.57	1.50	N/A	1020.88	1019.27	1026.00		
Drop in Inlet 1009																						0.50					
LINE 1200																											
1201	0.30	0.66	1.06	0.70	5.0	7.35	1.46	5.14	16.09	9.11			0.00	0.00	1201	1009	HDPE	0.012	18	220.44	2.00	0.50	1019.15	1014.74	1023.40		
1202	0.42	0.66	0.76	0.50	5.2	7.29	2.02	3.66	12.12	9.88			0.00	0.00	1202	1201	HDPE	0.012	15	34.53	3.00	0.50	1020.68	1019.65	1025.95		
1203	0.34	0.66	0.34	0.22	5.0	7.35	1.65	1.65	9.90	8.06			0.00	0.00	1203	1202	HDPE	0.012	15	91.48	2.00	N/A	1023.01	1021.18	1027.08		
Drop in Inlet 1007																						0.20					
LINE 1800																											
1805	0.00	0.66	3.42	2.26	6.5	6.92	0.00	15.63	29.00	9.23			0.00	0.00	1805	1804	HDPE	0.012	24	148.37	1.40	0.50	1015.30	1013.22	1020.98		
1806	1.69	0.66	3.42	2.26	6.2	6.99	7.79	15.77	23.25	7.40			0.00	0.00	1806	1805	HDPE	0.012	24	105.15	0.90	0.50	1016.74	1015.80	1024.53		
1807	0.12	0.66	1.73	1.14	5.8	7.11	0.56	8.12	12.04	6.82	1901		0.36	0.24	1807	1806	HDPE	0.012	18	171.66	1.12	0.40	1019.17	1017.24	1028.61		
1808	0.03	0.66	1.25	0.14	5.4	7.22	0.14	5.96	9.90	8.06	2001		0.43	0.28	1808	1807	HDPE	0.012	15	189.72	2.00	0.50	1026.96	1023.17	1033.63		
1809	0.10	0.66	0.79	0.52	5.0	7.35	0.49	3.83	7.67	6.25	2101		0.69	0.46	1809	1808	HDPE	0.012	15	161.32	1.20	N/A	1029.40	1027.46	1039.10		
Drop in Inlet 1807																						4.00					
LINE 1900																											
1901	0.36	0.66	0.36	0.24	5.0	7.35	1.75	1.75	7.00	5.70			0.00	0.00	1901	1807	HDPE	0.012	15	36.46	1.00	0.20	1024.29	1023.93	1028.40		
Drop in Inlet 1808																						2.00					
LINE 2000																											
2001	0.43	0.66	0.43	0.28	5.0	7.35	2.09	2.09	7.00	5.70			0.00	0.00	2001	1808	HDPE	0.012	15	35.00	1.00	0.20	1029.31	1028.96	1035.54		

Design Storm:	100
"K" Value:	1.25
"E" Factor:	1.00

Runoff Calculations													Pipe Properties												
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top
LINE 100																									
108	13.00	0.51	15.06	7.66	15.0	7.36	60.97	70.44	81.69	11.56			0.00	0.00	108	107	RCP	0.013	36	30.70	1.50	0.50	1018.77	1018.31	1024.32
109	2.06	0.50	2.06	1.03	8.5	9.05	11.65	11.65	27.66	8.80			0.00	0.00	109	108	RCP	0.013	24	127.47	1.50	N/A	1020.88	1019.27	1026.00
LINE 1200																									
1201	0.30	0.66	1.06	0.70	5.0	10.32	2.55	9.03	16.09	9.11			0.00	0.00	1201	1209	HDPE	0.012	18	220.44	2.00	0.50	1019.15	1014.74	1023.40
1202	0.42	0.66	0.76	0.50	5.2	10.24	3.55	6.42	12.12	9.88			0.00	0.00	1202	1201	HDPE	0.012	15	34.53	3.00	0.50	1020.68	1019.65	1025.95
1203	0.34	0.66	0.34	0.22	5.0	10.32	2.90	2.90	9.90	8.06			0.00	0.00	1203	1202	HDPE	0.012	15	91.48	2.00	N/A	1023.01	1021.18	1027.08
LINE 1800																									
1805	0.00	0.66	3.42	2.26	6.5	9.74	0.00	27.49	29.00	9.23			0.00	0.00	1805	1804	HDPE	0.012	24	148.37	1.40	0.50	1015.30	1013.22	1020.98
1806	1.69	0.66	3.42	2.26	6.2	9.83	13.71	27.74	23.25	7.40			0.00	0.00	1806	1805	HDPE	0.012	24	105.15	0.90	0.50	1016.74	1015.80	1024.53
1807	0.12	0.66	1.73	1.14	5.8	9.99	0.99	14.26	12.04	6.82	1901		0.36	0.24	1807	1806	HDPE	0.012	18	171.66	1.12	0.40	1019.17	1017.24	1028.61
1808	0.03	0.66	1.25	0.83	5.4	10.15	0.25	10.46	9.90	8.06	2001		0.43	0.28	1808	1807	HDPE	0.012	15	189.72	2.00	0.50	1026.96	1023.17	1035.63
1809	0.10	0.66	0.79	0.52	5.0	10.32	0.85	6.73	7.67	6.25	2101		0.69	0.46	1809	1808	HDPE	0.012	15	161.32	1.20	N/A	1029.40	1027.46	1039.10
LINE 1900																									
1901	0.36	0.66	0.36	0.24	5.0	10.32	3.07	3.07	7.00	5.70			0.00	0.00	1901	1807	HDPE	0.012	15	36.46	1.00	4.00	1024.29	1023.93	1028.40
LINE 2000																									
2001	0.43	0.66	0.43	0.28	5.0	10.32	3.66	3.66	7.00	5.70			0.00	0.00	2001	1808	HDPE	0.012	15	35.00	1.00	2.00	1029.31	1028.96	1035.54

DESIGN STORM	10						CURB TYPE "A" = LAZY BACK
"K" FACTOR	1.00						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 80% CAP	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	STREET CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW	
LINE 1200																							
1201	0.66	0.30	5	7.35	1.46					0.00	1.46	1.20	2.08	A	6	4.8	1.32	0.14	1.20	2.08	0.15	7.94	
1202	0.66	0.42	5	7.35	2.04	1203				0.18	2.22	1.20	2.08	A	6	4.8	1.89	0.32	1.20	2.08	0.18	9.22	
1203	0.66	0.34	5	7.35	1.65					0.00	1.65	1.20	2.08	A	6	4.8	1.47	0.18	1.20	2.08	0.16	8.30	
LINE 1800																							
1806	0.66	1.69	5	7.35	8.20	1807	1901			0.67	8.87	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50	
1807	0.66	0.12	5	7.35	0.58	1808				0.00	0.58	3.80	2.08	A	6	4.8	0.53	0.05	3.80	2.08	0.09	4.75	
1808	0.66	0.03	5	7.35	0.15					0.00	0.15	2.00	2.08	A	6	4.8	0.14	0.00	2.00	2.08	0.06	3.35	
1809	0.66	0.10	5	7.35	0.49					0.00	0.49	2.00	2.08	A	6	6	0.47	0.01	2.00	2.08	0.09	4.98	
LINE 1900																							
1901	0.66	0.36	5	7.35	1.75	2001				0.40	2.15	3.80	2.08	A	6	4.8	1.53	0.62	3.80	2.08	0.14	7.44	
LINE 2000																							
2001	0.66	0.43	5	7.35	2.09					0.00	2.09	2.00	2.08	A	6	4.8	1.68	0.40	2.00	2.08	0.16	8.24	
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																							

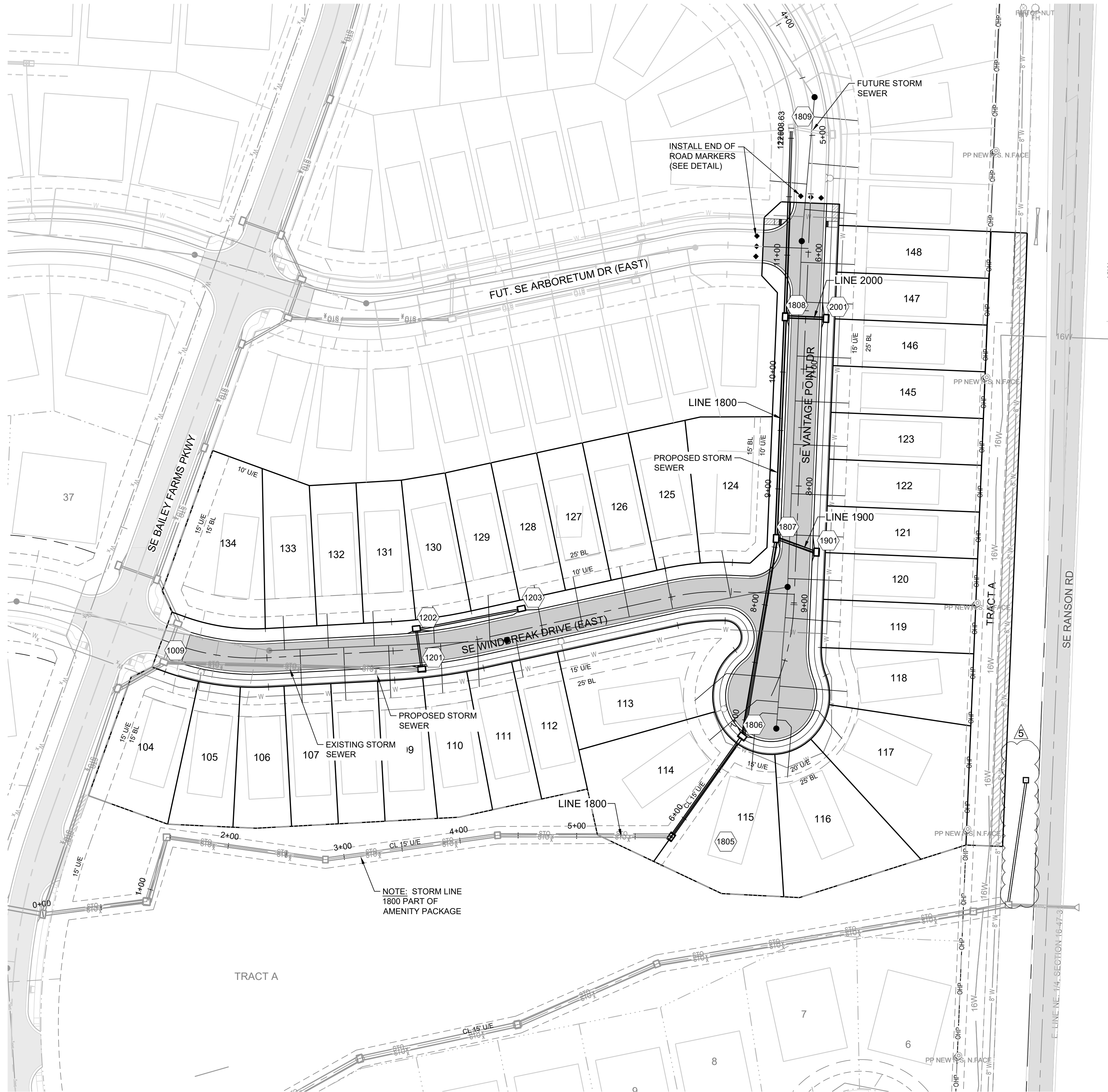
NOTES:

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

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Date: 04/01/2025
 Certified by: JLL
 Title: Senior Project Engineer
 Firm: Schlagel and Associates, P.A.



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

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ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:

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Storm Sewer Construction Notes	
Structure	Notes
109	STA 11+18.60, LINE 100 INSTALL 4'X4' MODOT TYPE S-1 DOUBLE GRATE DROP INLET N 992559.4871 E 2834141.2360
1201	STA 2+20.44, LINE 1200 INSTALL 6' X 4' CURB INLET N 992654.3986 E 2833624.9486
1202	STA 2+54.97, LINE 1200 INSTALL 6' X 4' CURB INLET N 992688.6205 E 2833620.3630
1203	STA 3+46.45, LINE 1200 INSTALL 6' X 4' CURB INLET N 992705.6873 E 2833710.2379
1805	STA 5+80.78, LINE 1800 INSTALL 4' X 4' JUNCTION BOX N 992511.0888 E 2833838.0784
1806	STA 6+85.93, LINE 1800 INSTALL 6' X 4' CURB INLET N 992596.8865 E 2833898.8588
1807	STA 8+57.59, LINE 1800 INSTALL 6' X 4' CURB INLET N 992766.0995 E 2833927.7543
1808	STA 10+47.31, LINE 1800 INSTALL 6' X 4' CURB INLET N 992955.6599 E 2833935.5105
1901	STA 0+36.46, LINE 1900 INSTALL 6' X 4' CURB INLET N 992754.4673 E 2833962.3077
2001	STA 0+35.00, LINE 2000 INSTALL 6' X 4' CURB INLET N 992954.2290 E 2833970.4812

New City Requirements:

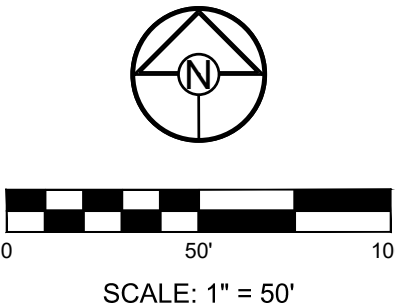
Flowable fill required per City specifications at all storm structures.

RECORD DRAWING

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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.



PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

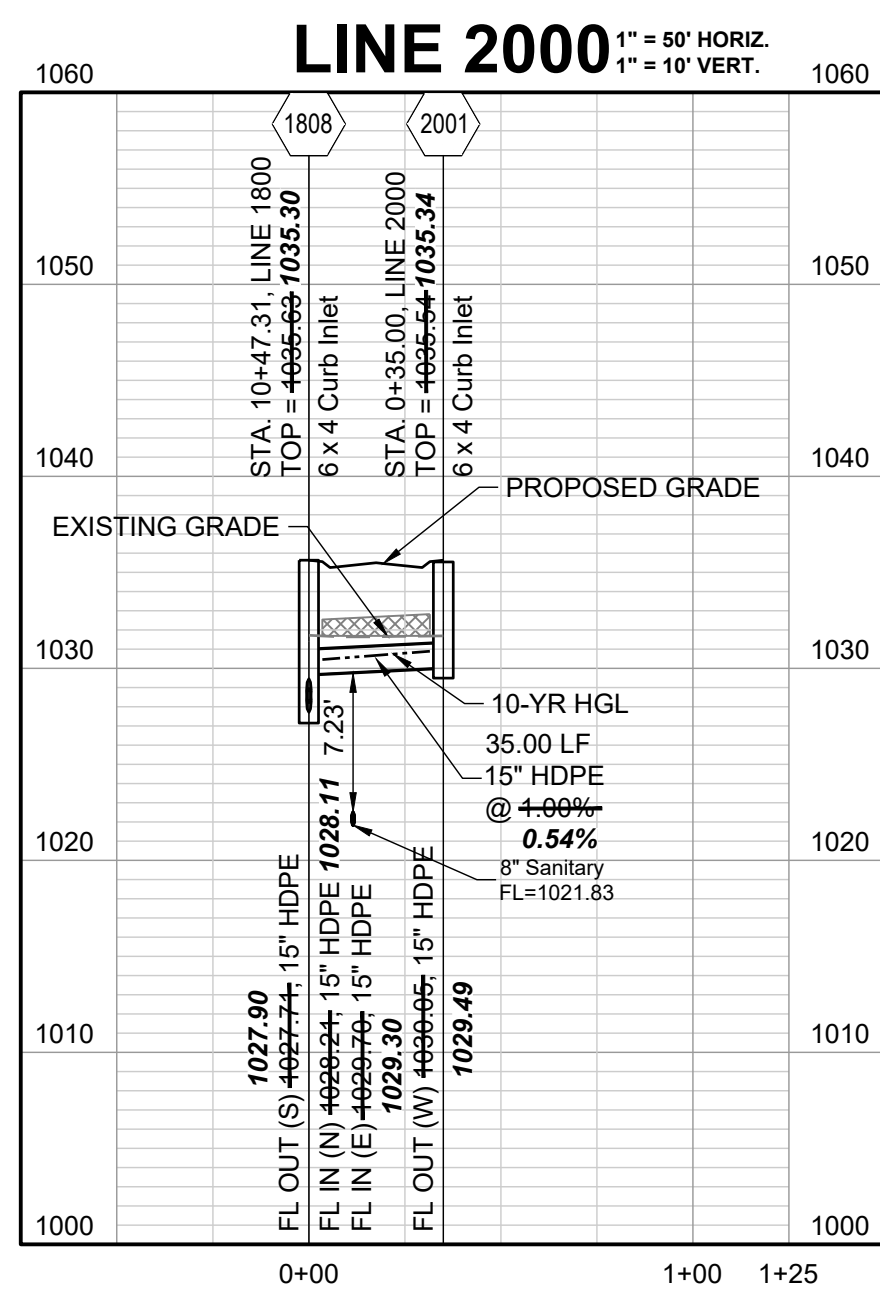
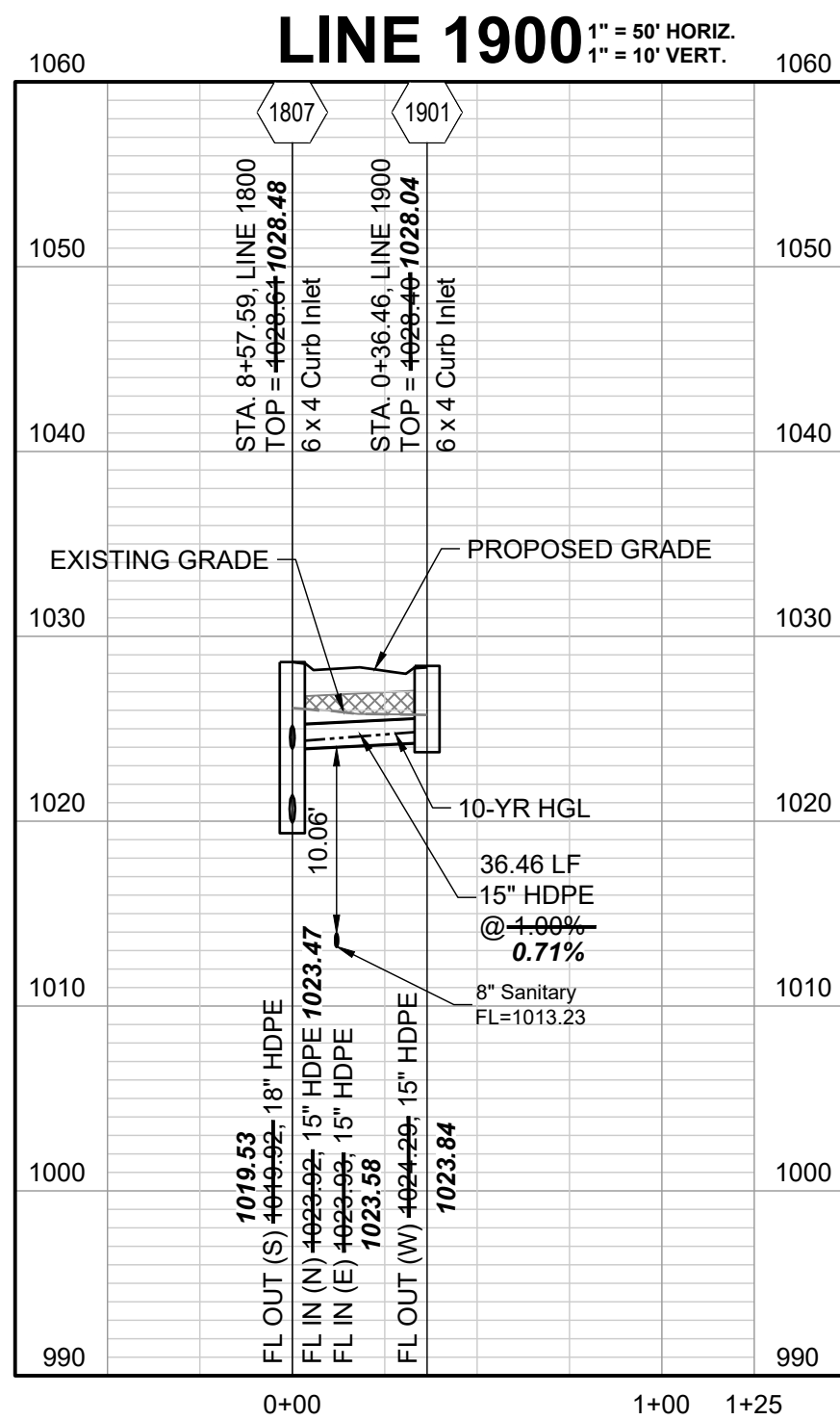
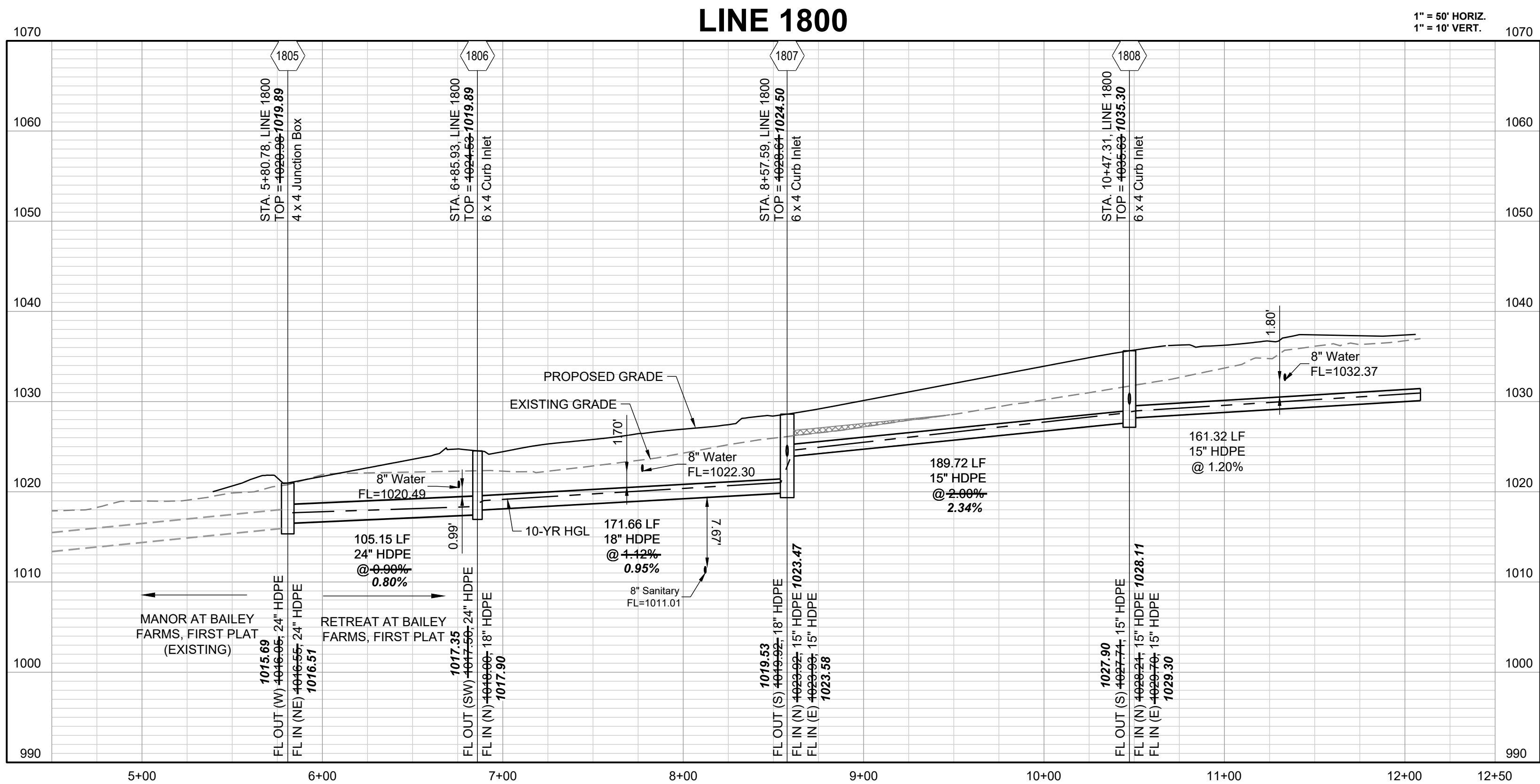
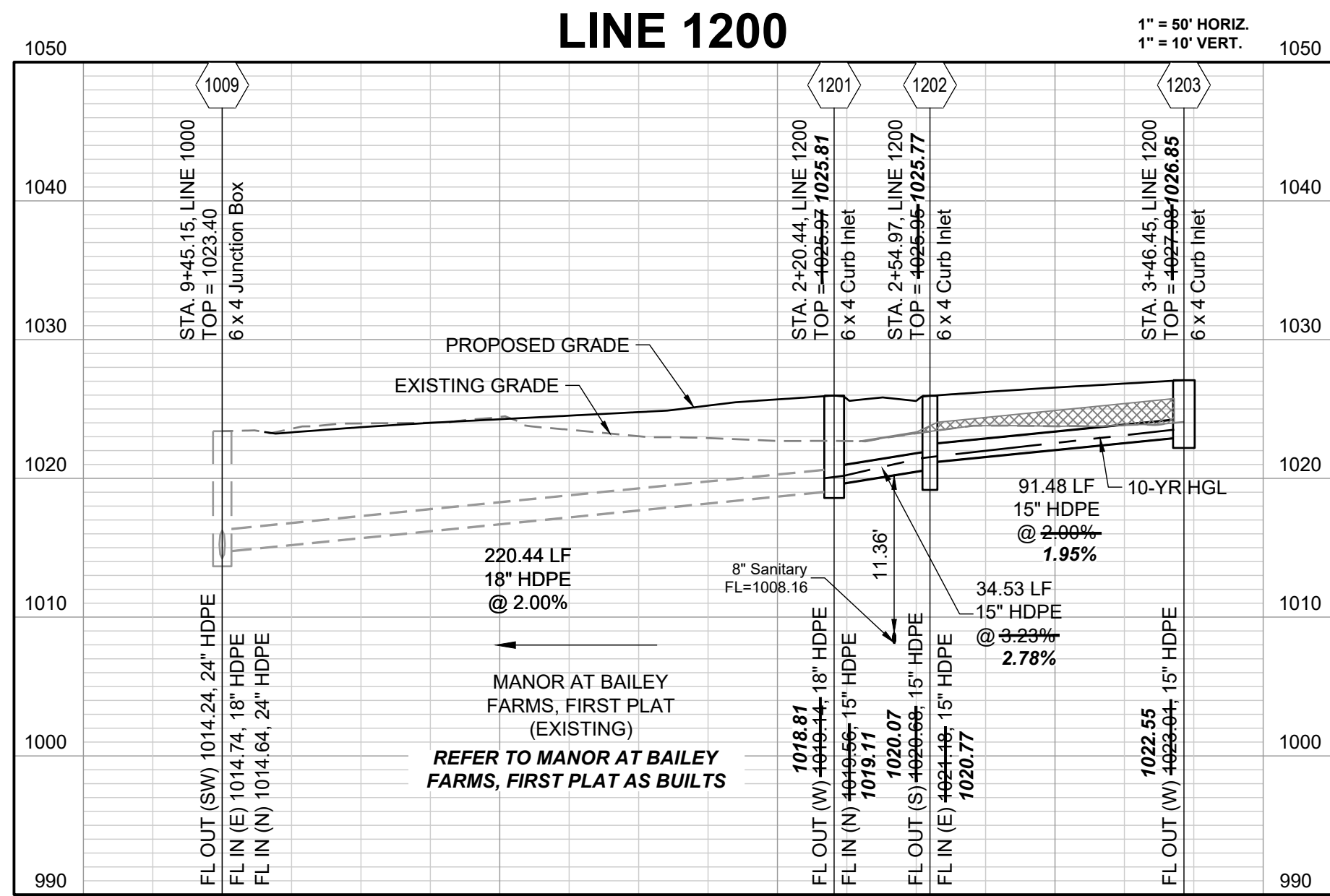
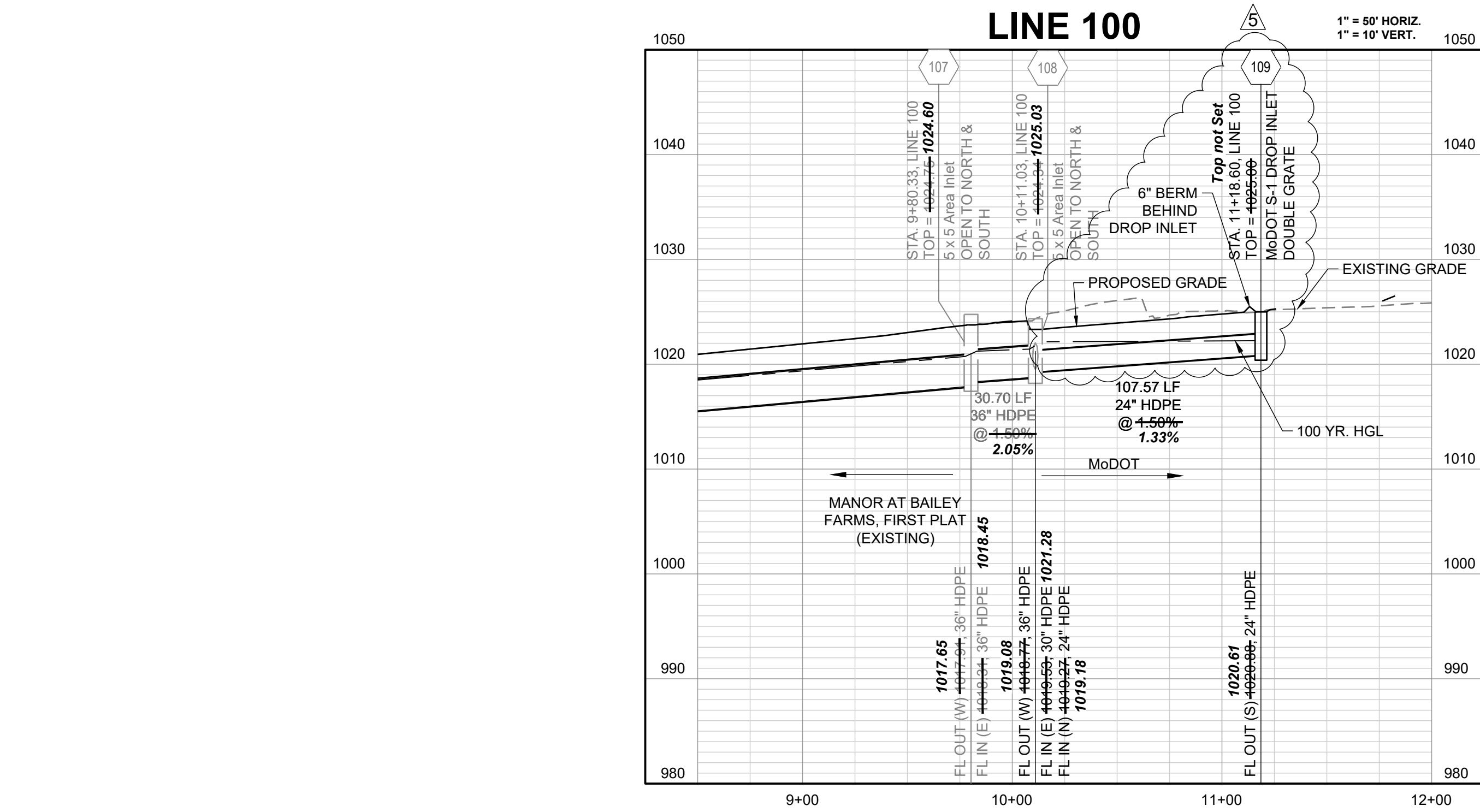
REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
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02/09/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

DRAWN BY: JRL
CHECKED BY: JLL
DATE PREPARED: 02/09/2022
PROJ. NUMBER: 21-133

STORM PLAN

SHEET

9



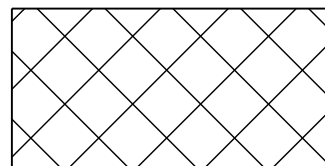
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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

COMPACTED FILL TO BE PLACED A
MINIMUM OF 1.5 FEET ABOVE TOP OF
PIPE ELEVATION PRIOR TO PIPE
INSTALLATION.



10-YEAR HGL

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
09/08/2022	REVISE FIELD INLET
11/01/2022	REVISED INLET 09 TO MoDOT S1 INLET
02/09/2022	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Builts

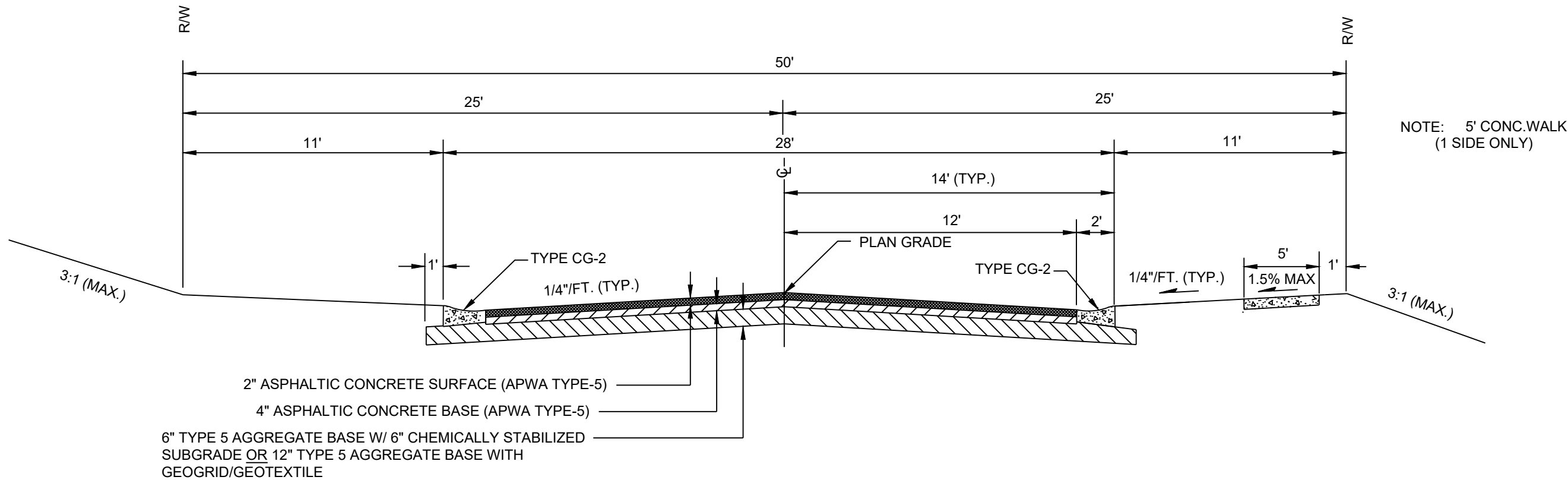
STORM PROFILE

SHEET

10

TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES						
Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	Aggregate Base (in.)	Chemical Subgrade Stabilization (in.)	Geogrid / Geotextile ⁽¹⁾
Residential Local/Access	A	2	4	6	6	--
	B	2	4	12	--	Geogrid / Geotextile
Residential Collector	A	2	5.5	6	9	--
	B	2	5.5	12	--	Geogrid / Geotextile
Commercial Industrial Local/Collector	A	2	7.5	6	9	--
	B	2	7.5	12	--	Geogrid / Geotextile

Notes:
(1) Geogrid shall be polypropylene material and Geotextile shall be woven, polypropylene as shown in the City's Approved Products List



RESIDENTIAL LOCAL/ACCESS

RECORD DRAWING

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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

PREPARED BY:



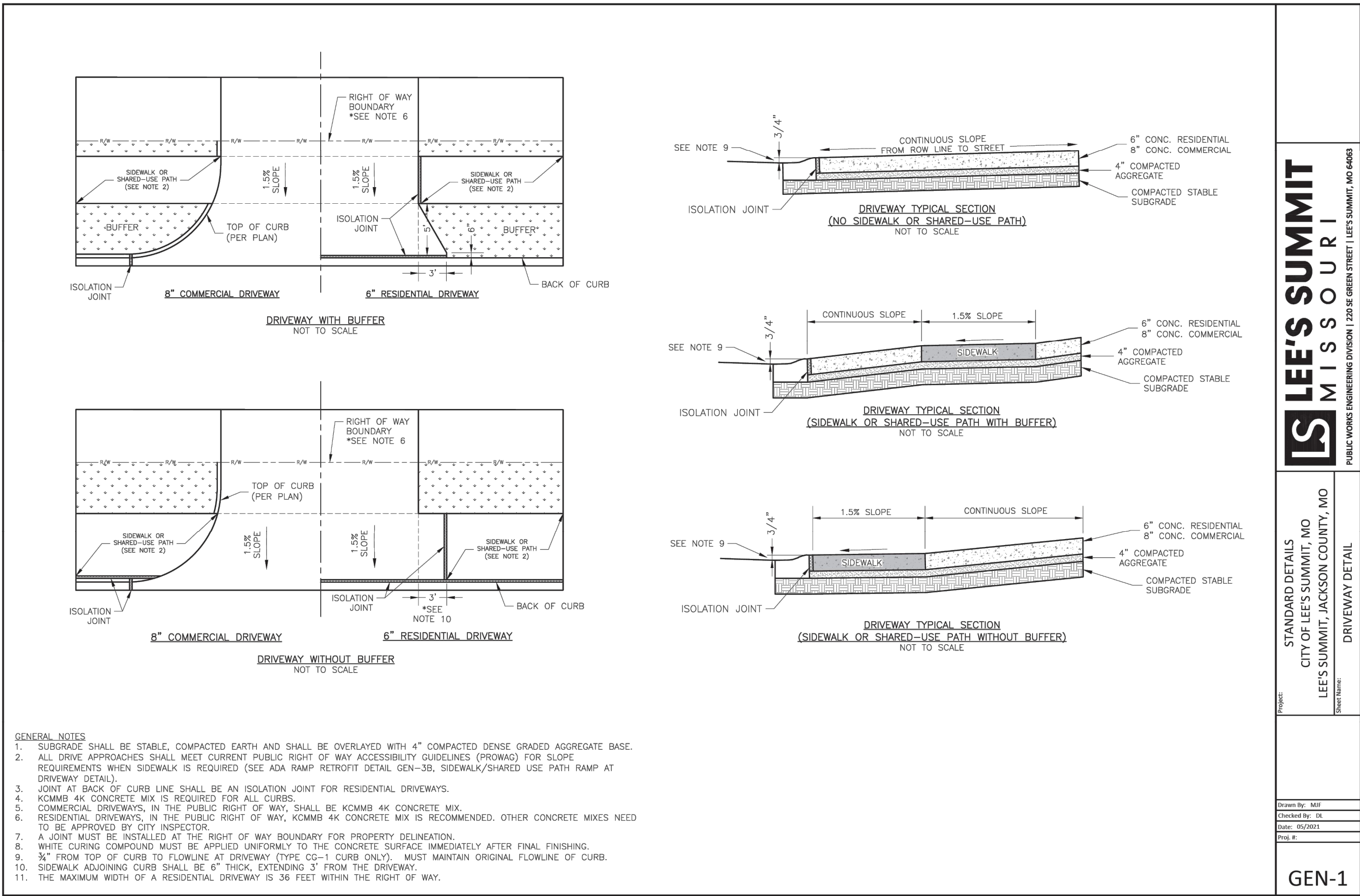
SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
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10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

DRAWN BY:	JRL
CHECKED BY:	JLL
DATE PREPARED:	02/09/2022
PROJ. NUMBER:	21-133

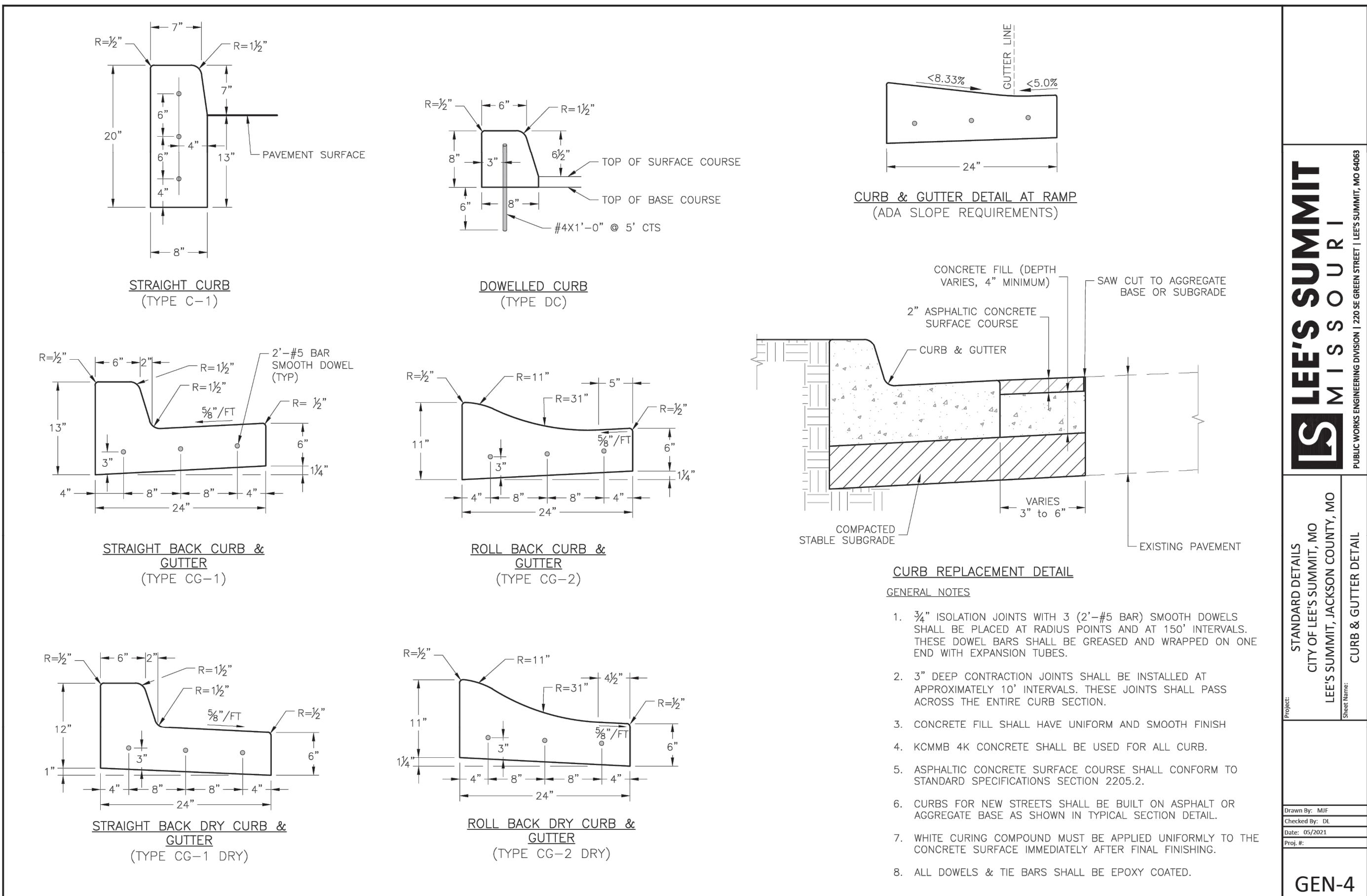
STREET DETAILS



LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

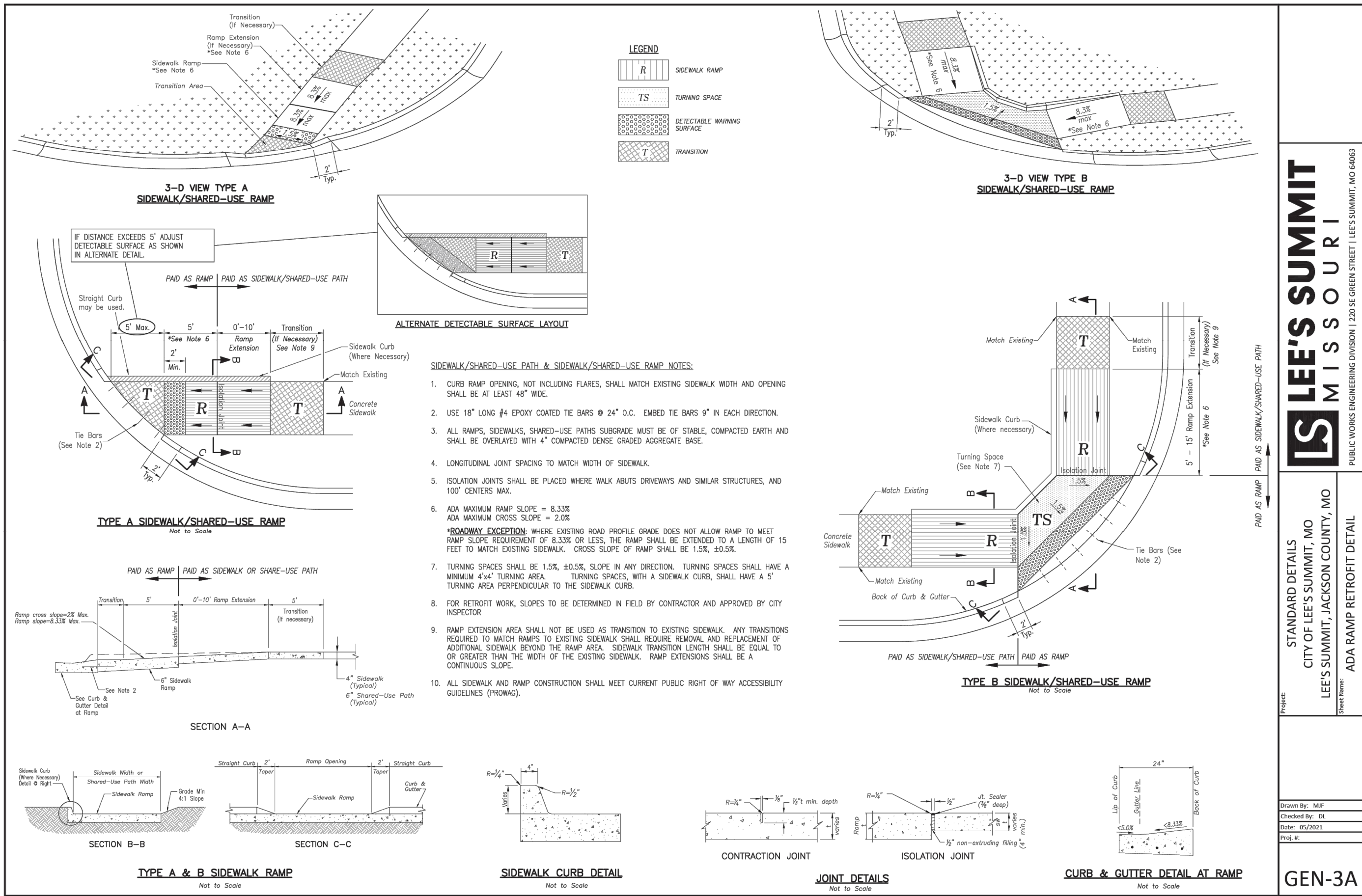
GEN-1



LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

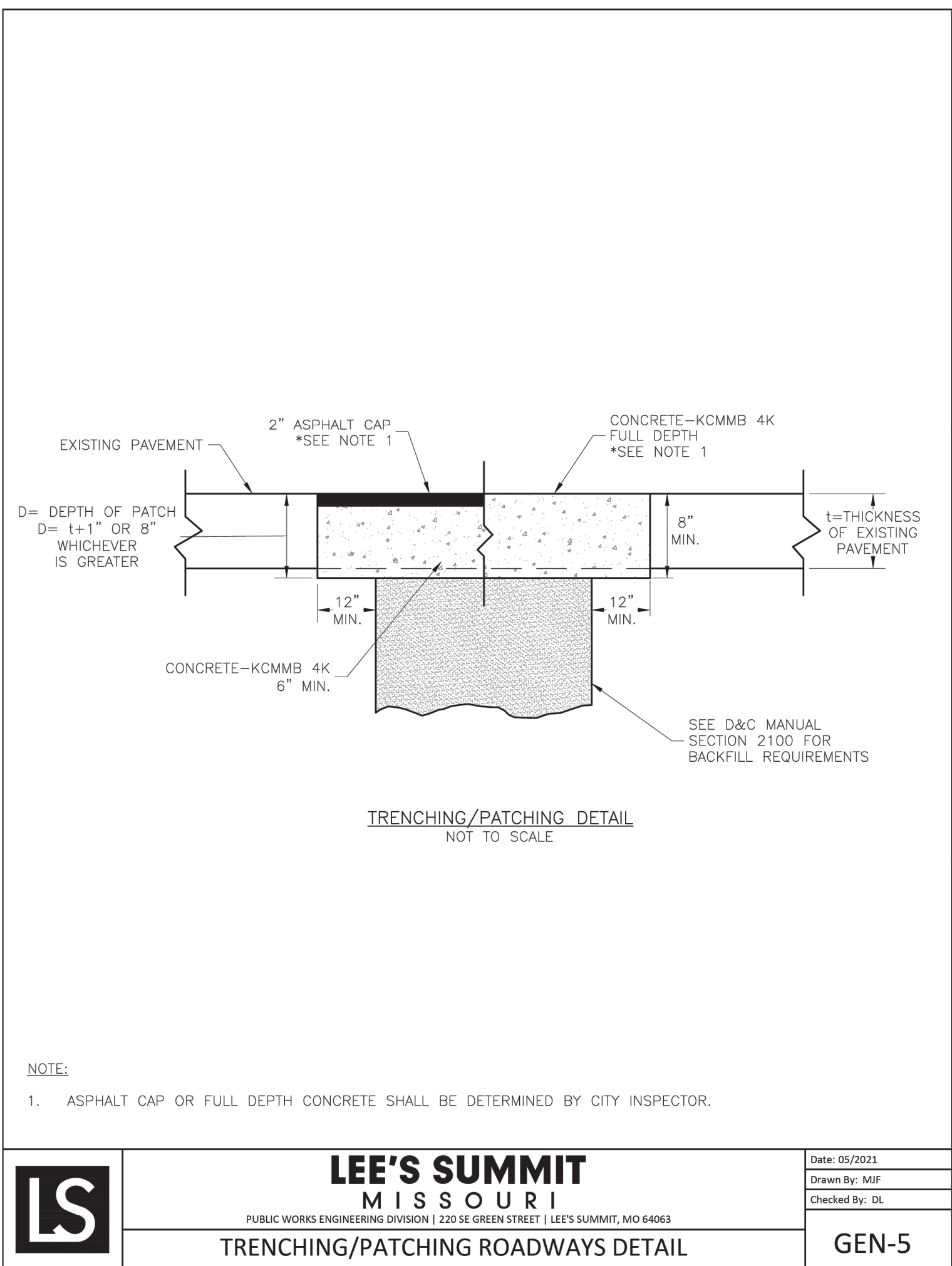
GEN-4



LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

GEN-3A



LEE'S SUMMIT
MISSOURI

TRENCHING/PATCHING ROADWAYS DETAIL

Date: 05/2021

Drawn By: MIF

Checked By: DL

GEN-5

RECORD DRAWING

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"400-00 100.10", "4.00% 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: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400
WWW.SCHLAGELASSOCIATES.COM
Missouri State Certificate of Authority
#E2002003600-F #LAC2001005237 #LS200200865-F

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

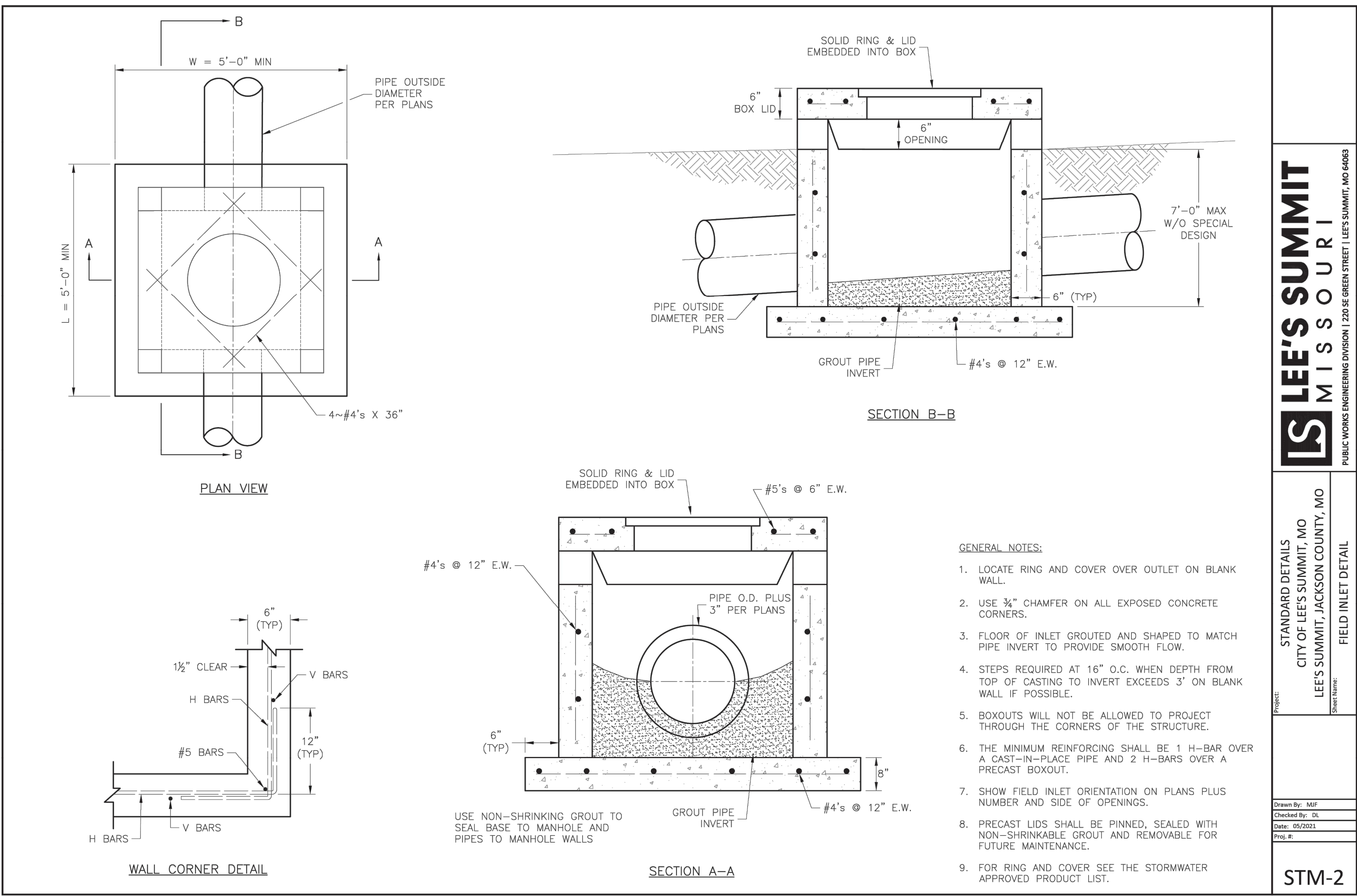
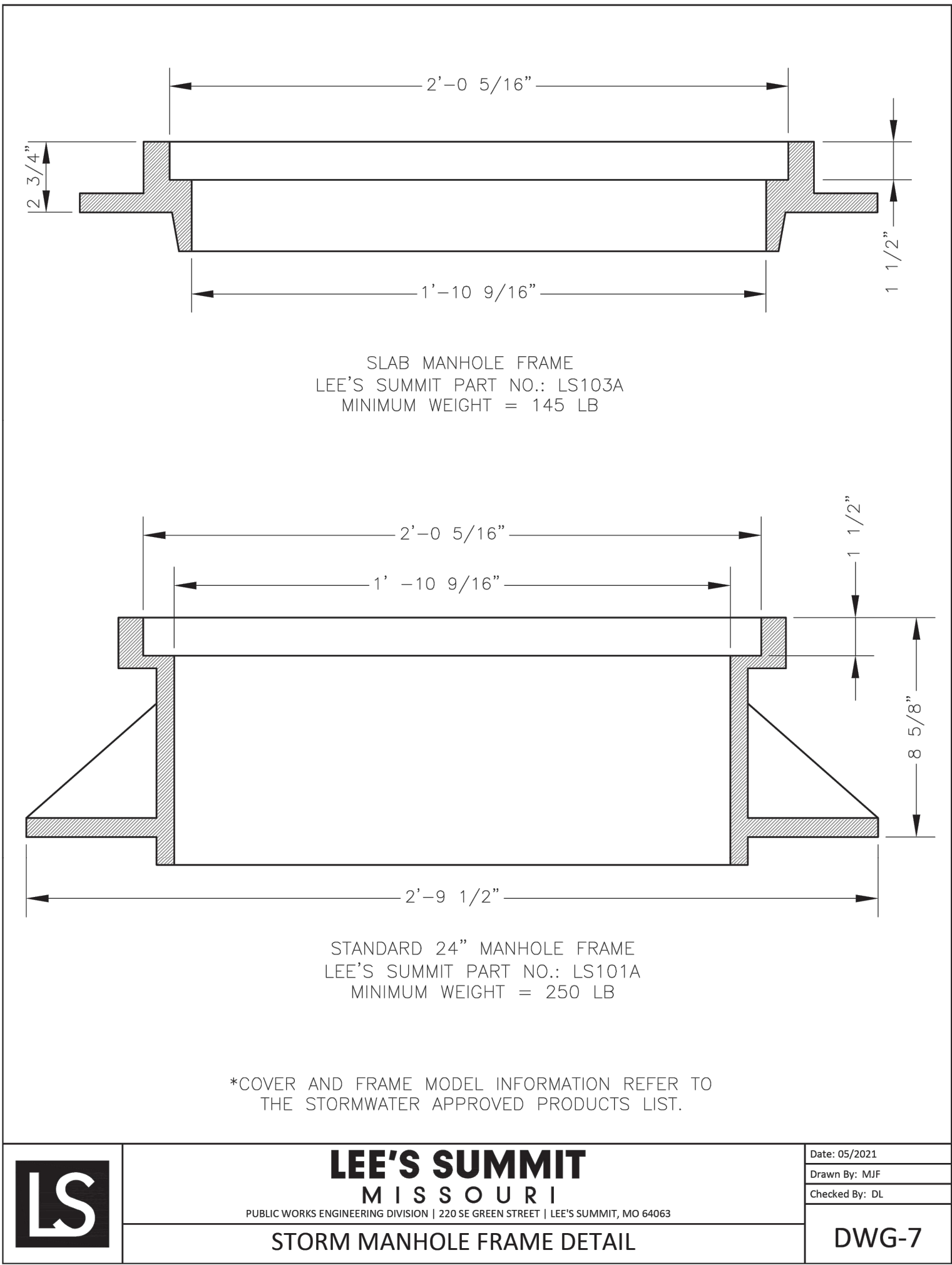
RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS DATED 02/25/2022
04/20/2022	ADD FIELD INLET
08/25/2022	REVISED FIELD INLET
09/08/2022	REVISED INLET 09 TO MATCH S1 INLET
11/01/2022	Updated City Details to 2023 Details
10/27/2023	Added "New City Requirements" Note
11/30/2023	As-Built
04/02/2025	

STREET DETAILS

SHEET

12



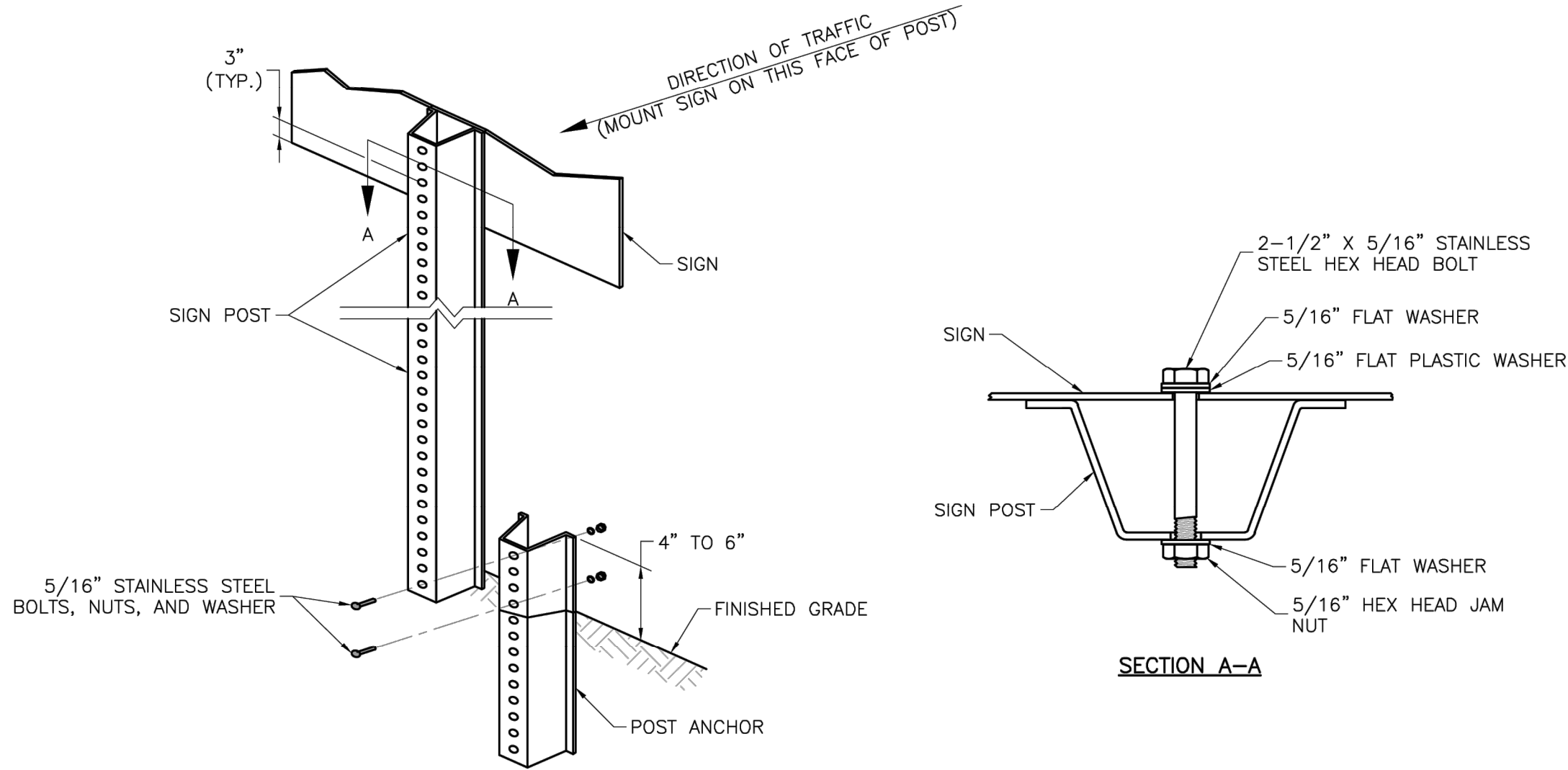
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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

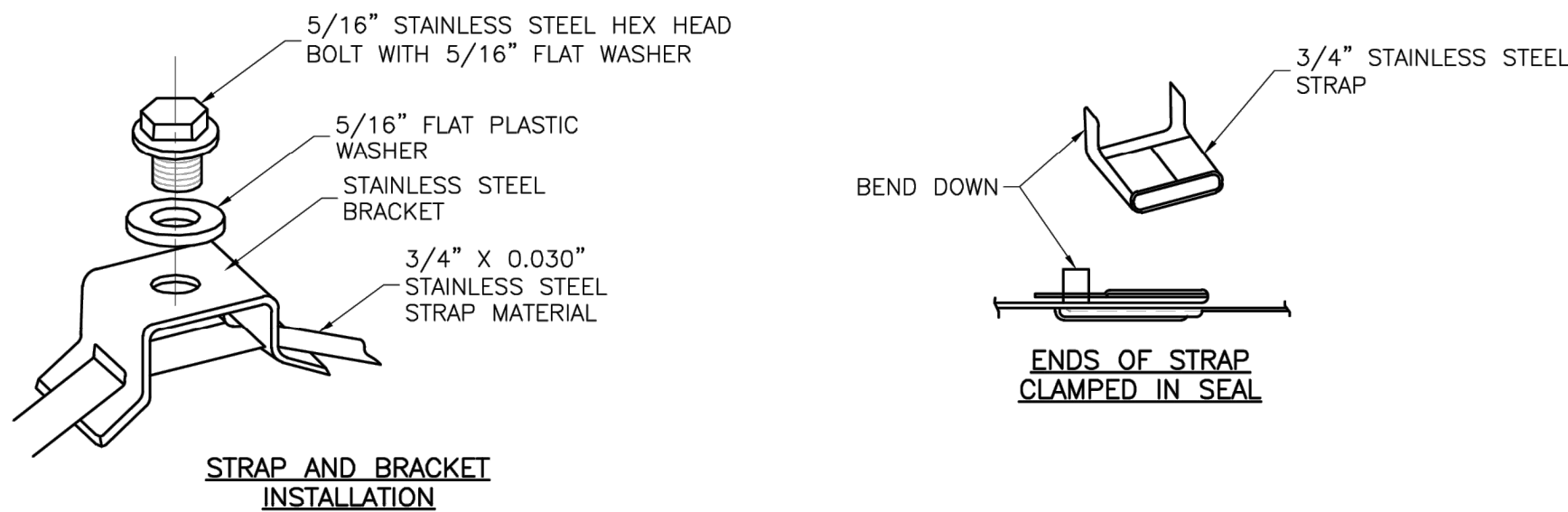
REVISION DATE	DESCRIPTION
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04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
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10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built



U-STEEL POST DETAILS

NOTES:

1. SPLICE SHALL BE POSITIONED ENTIRELY BETWEEN FINISHED GRADE LINE AND 18" ABOVE FINISHED GRADE LINE. ONLY ONE SPLICE WILL BE ALLOWED PER POST.
2. U-STEEL POST SHALL BE 3 LB./FT., GALVANIZED ACCORDING TO ASTM A123.
3. U-STEEL POST CAN BE USED FOR INSTALLATION OF SIGNS WITH AN AREA OF LESS THAN 2.5 SQUARE FEET.
4. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.



STRAP TYPE SIGN SUPPORT DETAILS

NOTES:

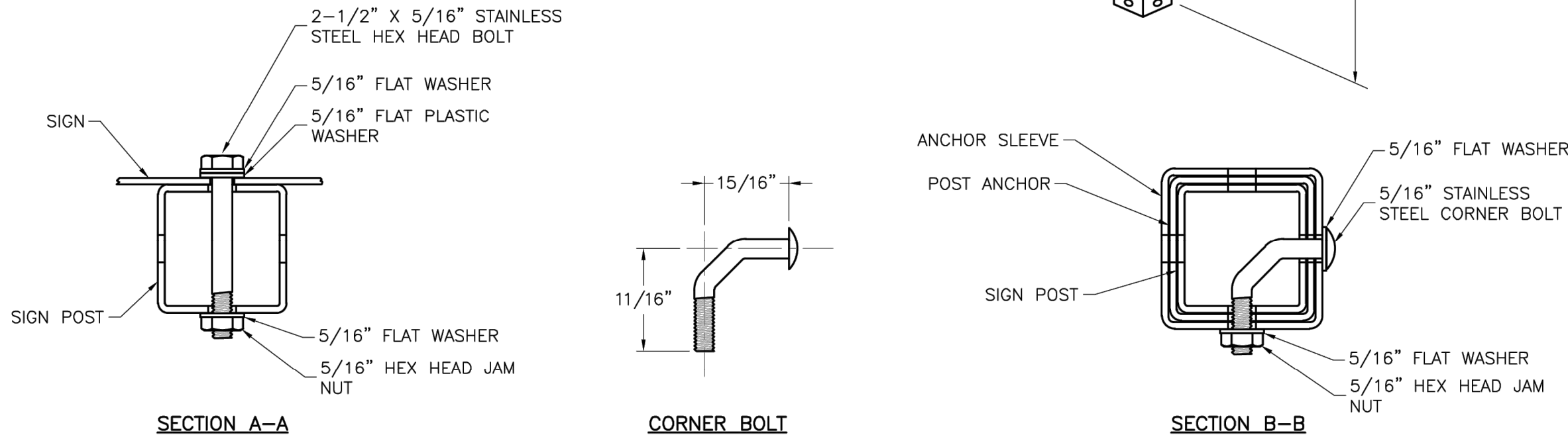
1. SIGNS ON METAL POLES SHALL BE ATTACHED WITH TWO BRACKETS AND STAINLESS STEEL BANDS.
2. HOLES IN SIGN FOR ATTACHMENT TO THE MOUNTING BRACKETS SHALL BE OFFSET A MINIMUM OF 2 INCHES FROM THE EDGE OF THE SIGN.
3. HOLES IN SIGN SHALL BE LOCATED SUCH THAT THE SIGN IS LEVEL.
4. ALL STRAP, BRACKET, AND SEAL MATERIALS SHOULD BE TYPE 201 STAINLESS STEEL.

PERMANENT SIGNING GENERAL NOTES:

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY AND ALL UTILITIES WHEN INSTALLING SIGN POSTS, WHETHER THE UTILITY IS INDICATED ON THE PLANS OR NOT.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT.
4. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL SIGN POSTS TO BE INSTALLED. THE CITY INSPECTOR SHALL INSPECT THE STAKING PRIOR TO INSTALLATION. MINOR RELOCATION TO AVOID CONFLICTS MAY BE ALLOWED WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
5. SIGNS SHOWN TO BE INSTALLED ON THE SIDE OF METAL POLES SHALL BE MOUNTED WITH STAINLESS STEEL STRAPS OR WING BRACKETS AS DETAILED. NO SIGNS ARE TO BE INSTALLED ON WOOD POLES. SEE TRAFFIC SIGNAL STANDARD DRAWINGS FOR THE INSTALLATION OF SIGNS ON MAST ARMS.
6. ALL POST MOUNTED SIGNS SHALL BE INSTALLED WITH BREAKAWAY ANCHORS ACCORDING TO THE STANDARD DRAWINGS.
7. ALL EXISTING SIGNS WILL BE USED IN PLACE DURING CONSTRUCTION AND PROTECTED FROM DAMAGE UNLESS OTHERWISE INDICATED IN THE PLANS. IF THE CONTRACTOR DAMAGES ANY EXISTING SIGN OR POSTS DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE DAMAGED MATERIALS WITH NEW SIGNS OR POSTS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING ANY SIGNS THAT ARE TO BE REINSTALLED ON THE PROJECT. ALL EQUIPMENT SHALL BE REINSTALLED IN GOOD CONDITION.
8. EXISTING PERMANENT SIGNS AND POSTS REMOVED BY THE CONTRACTOR FOR CONSTRUCTION PURPOSES WHICH ARE NOT TO BE REINSTALLED SHALL BE DELIVERED TO THE CITY'S PUBLIC WORKS MAINTENANCE FACILITY (1971 SE HAMBLÉN ROAD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EQUIPMENT IN GOOD CONDITION AND IS FULLY RESPONSIBLE FOR THE EQUIPMENT UNTIL IT IS DELIVERED.
9. ALL STOP, YIELD, OR STREET NAME SIGNS SHALL BE MAINTAINED IN A CONSPICUOUS LOCATION FOR THE DRIVING PUBLIC. ALL STOP AND YIELD SIGNS REMOVED FOR CONSTRUCTION PURPOSES CAN BE TEMPORARILY ERECTED IN REFLECTORIZED DRUMS (NO LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE) UNTIL THEY CAN BE REINSTALLED. ANY TEMPORARY STOP OR YIELD SIGN INSTALLATION TO BE LEFT IN PLACE OVERNIGHT WILL REQUIRE PRIOR APPROVAL FROM THE CITY INSPECTOR.

SQUARE STEEL POST INSTALLATION SEQUENCE:

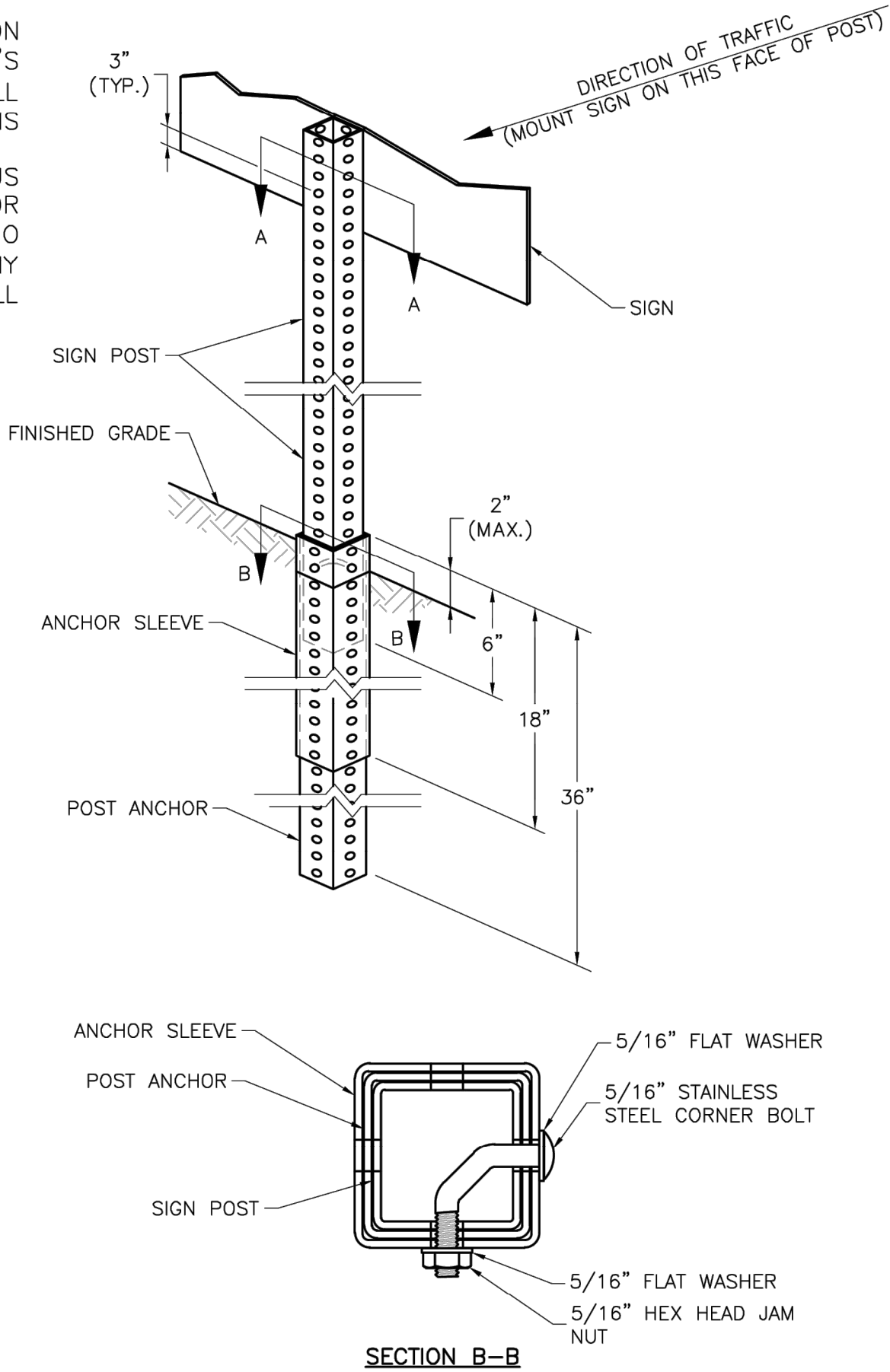
1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH A SLEDGE OR POWER EQUIPMENT.
2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVE INTO THE GROUND TOGETHER WITH THE SIGN POST ANCHOR.
3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.



SQUARE STEEL POST DETAILS

NOTES:

1. SQUARE STEEL SIGN POSTS AND BREAK-AWAY ANCHOR SHALL CONSIST OF THE FOLLOWING MATERIALS:
SIGN POST - 14 GA. 2" X 2" SQUARE STEEL POST
POST ANCHOR - 12 GA. 2 1/4" X 2 1/4" X 36" SQUARE STEEL POST
ANCHOR SLEEVE - 12 GA. 2 1/2" X 2 1/2" X 18" SQUARE STEEL POST
2. 14 GA. POSTS MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. IN ALL INSTALLATIONS THE FIRST HOLE ABOVE THE FINISHED GRADE LINE ON THE SIGN POST, ANCHOR, AND ANCHOR SLEEVE MUST BE IN LINE FOR THE INSERTION OF THE CORNER BOLT.
4. THE MAXIMUM AREA FOR ONE SIGN POST IS 9.0 SQUARE FEET. A SIGN OR COMBINATION OF SIGNS WITH AN AREA GREATER THAN 9.0 SQUARE FEET WILL REQUIRE TWO POSTS. ALSO, SIGNS WITH A WIDTH GREATER THAN OR EQUAL TO 48" (NOT INCLUDING 36" X 36" DIAMOND SHAPED SIGNS) WILL REQUIRE TWO POSTS.



LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS

CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

POST DETAILS

Project:

Sheet Name:

Drawn By: BWC

Checked By: MP

Date: 01/2020

Proj. #:

SN-2

RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

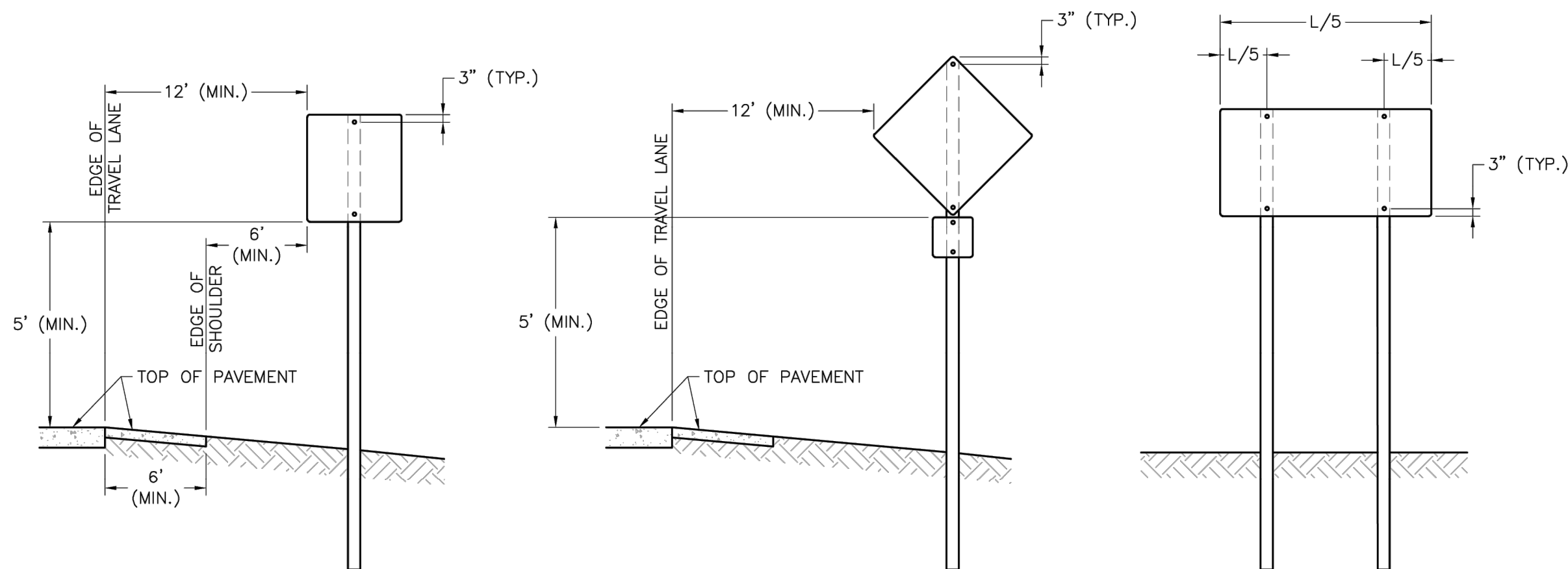
REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
09/08/2022	REVISED FIELD INLET
11/01/2022	REVISED INLET 09 TO M&DOT S1 INLET
10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

DRAWN BY:	JRL
CHECKED BY:	JLL
DATE PREPARED:	02/09/2022
PROJ. NUMBER:	21-133

SIGN POST DETAILS

SHEET

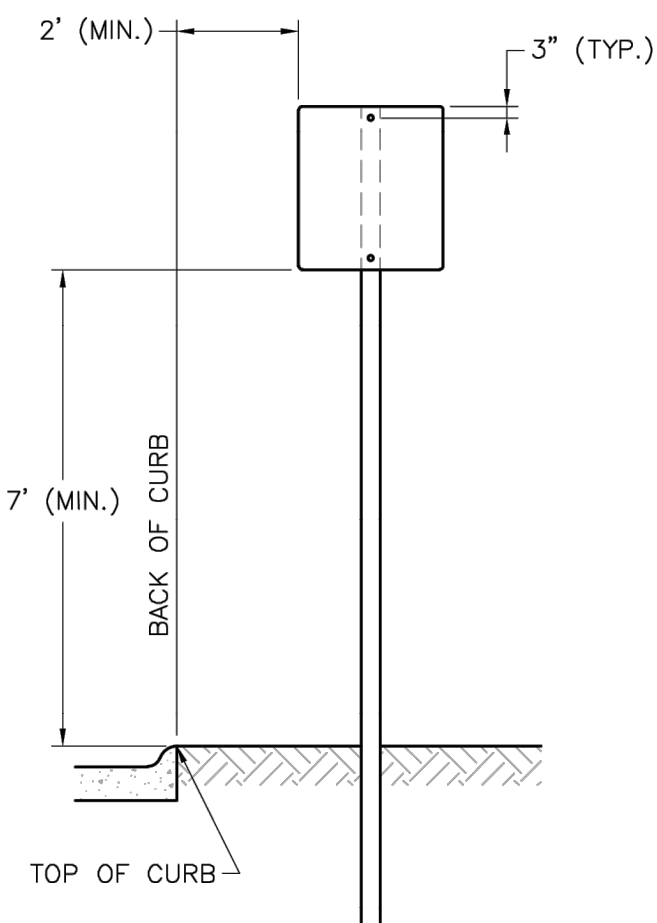
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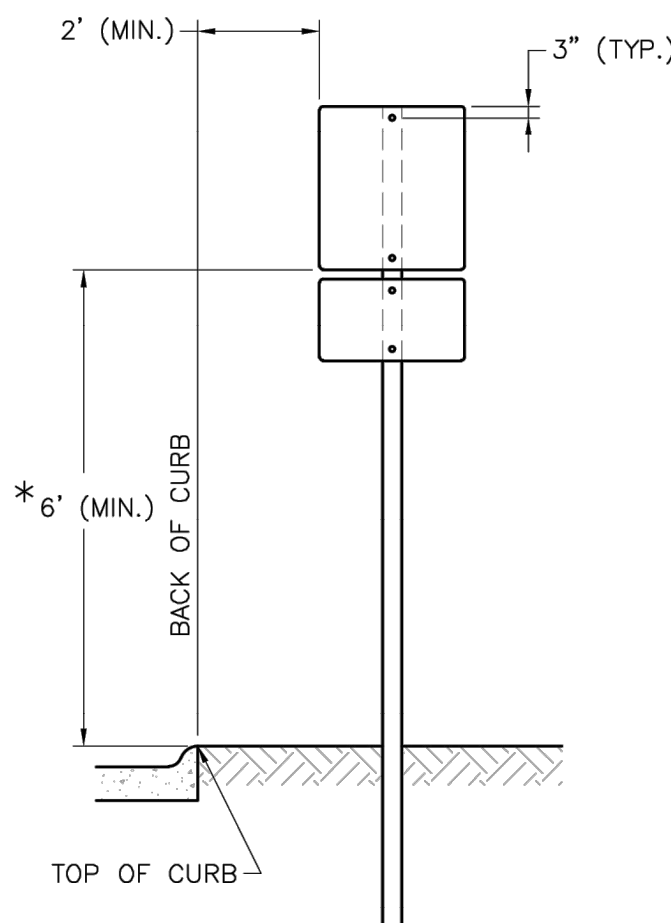
SIGN INSTALLATION FOR
NON-CURBED STREET

SIGN INSTALLATION WITH AUXILIARY
SIGN FOR NON-CURBED STREET

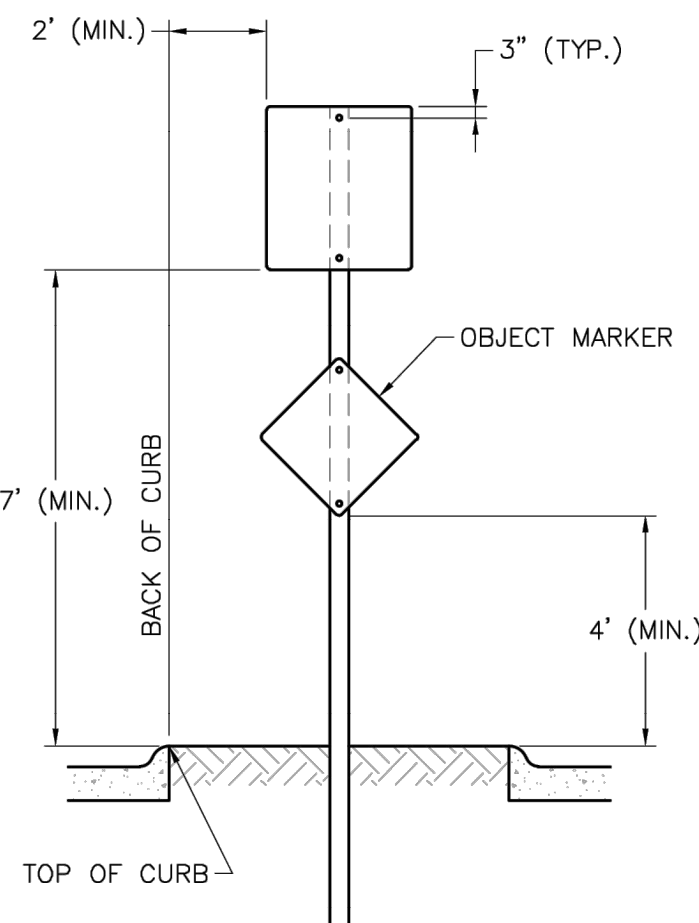
SIGN INSTALLATION WITH
TWO SIGN POSTS



SIGN INSTALLATION FOR
CURBED STREET



SIGN INSTALLATION WITH AUXILIARY
SIGN FOR CURBED STREET

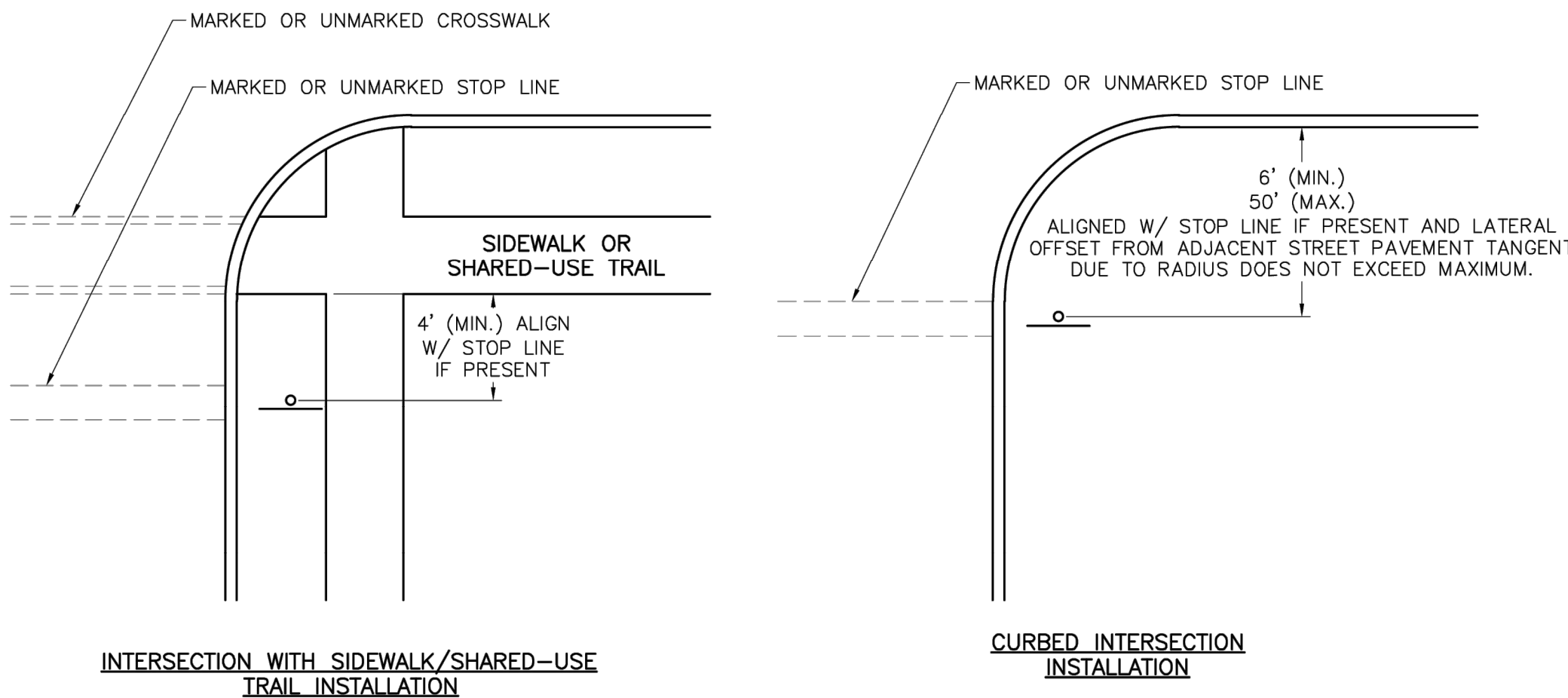
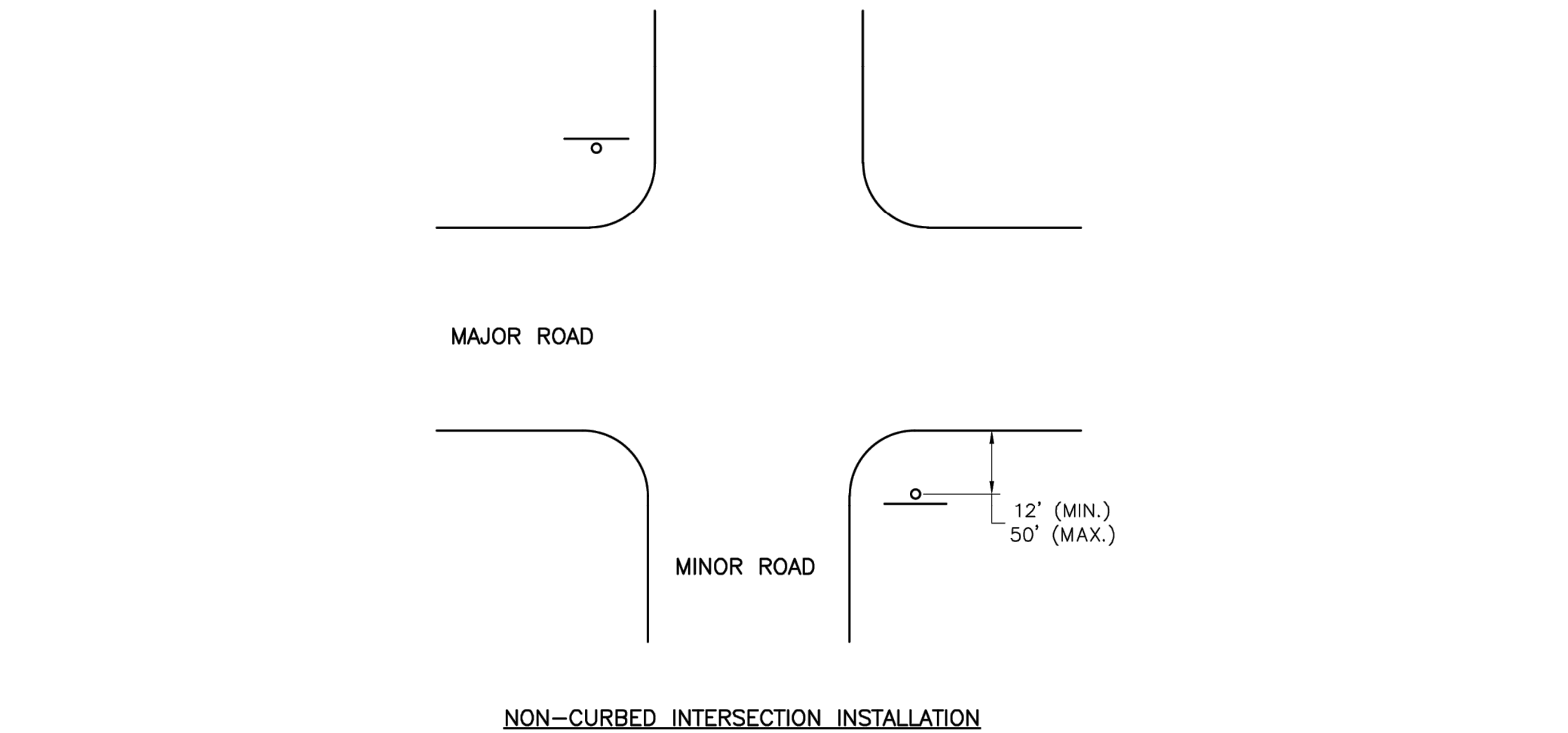


SIGN INSTALLATION
FOR RAISED MEDIANS

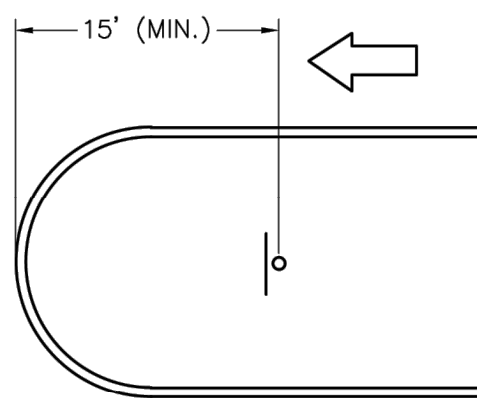
SIGN MOUNTING DETAILS

NOTES:

1. GENERALLY, THE SIGN MOUNTING HEIGHT SHOULD NOT BE MORE THAN 1' GREATER THAN THE MINIMUM MOUNTING HEIGHT.
2. *THE HEIGHT TO THE BOTTOM OF A SIGN WHEN IT IS LOCATED IN A PEDESTRIAN WALKWAY OR EXTENDS INTO A WALKWAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKWAY.



CONTROL SIGN LOCATION



MEDIAN SIGN LOCATION

NOTES:

1. A 4" P.V.C. SLEEVE SHALL BE INSTALLED IN NEW CONCRETE MEDIANS AT EACH LOCATION WHERE A SIGN IS TO BE INSTALLED.
2. FOR EXISTING CONCRETE MEDIANS, A 4" HOLE SHALL BE CORED INTO THE CONCRETE.

LEE'S SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

SIGN MOUNTING DETAILS

Project:

Sheet Name:

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-1

RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
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04/02/2025	As-Built

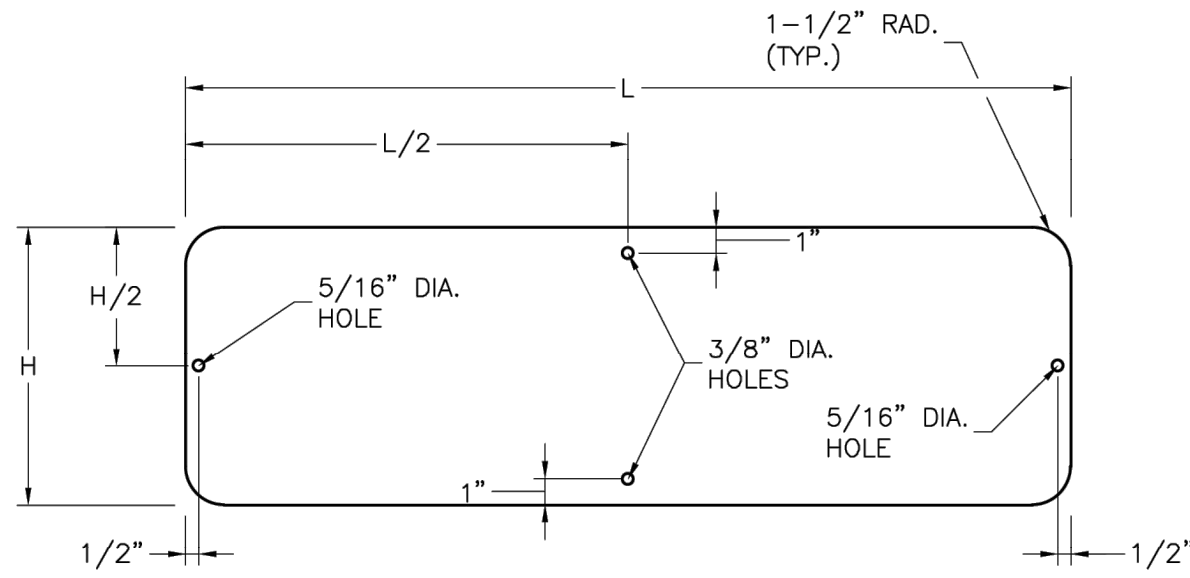
DRAWN BY:	JRJ
CHECKED BY:	JLL
DATE PREPARED:	02/09/2022
PROJ. NUMBER:	21-133

SIGN MOUNTING DETAILS

STANDARD ABBREVIATION LISTS

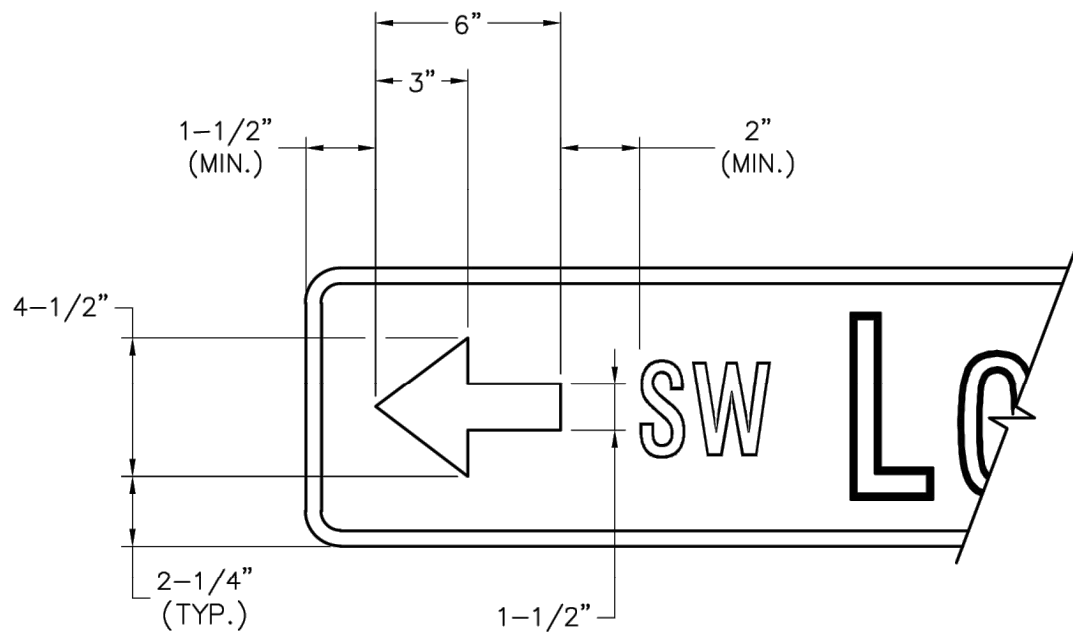
NAMED STREETS	
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
CREEK	Cr
COURT	Ct
CROSSING	Xing
DRIVE	Dr
HIGHWAY	Hwy
LANE	Ln
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Trl
WAY	Way

NUMBERED STREETS	
FIRST	ST
SECOND	ND
THIRD	RD
FOURTH TO TENTH	TH

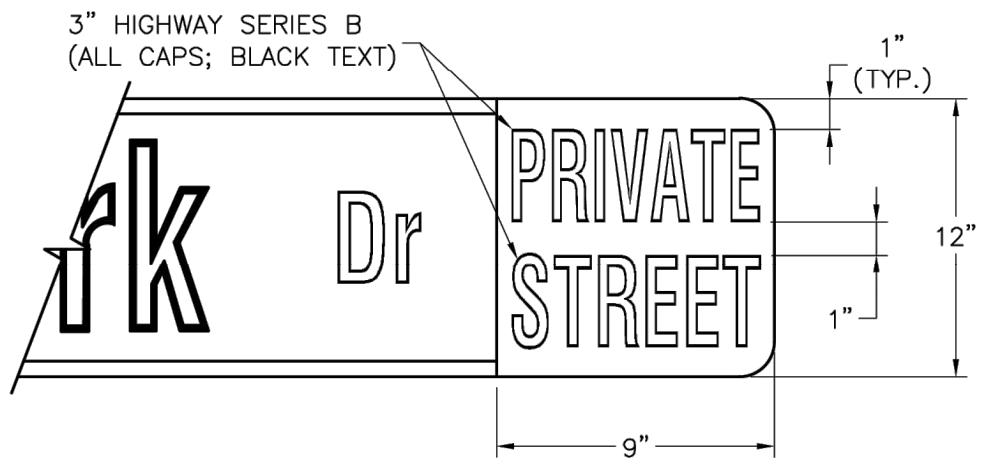


STREET NAME SIGN BLANK DETAILS

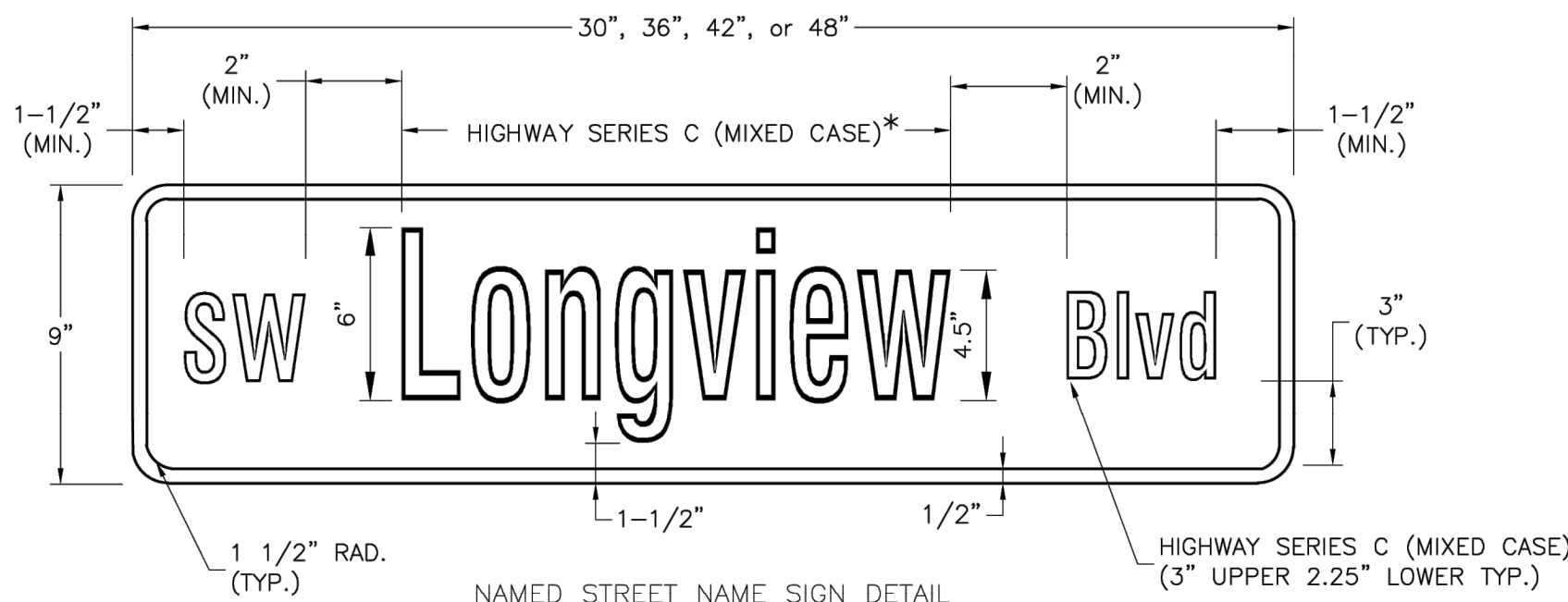
FOR MOUNTING ON SQUARE STEEL POSTS



ARROW DETAIL



PRIVATE STREET TAG DETAIL

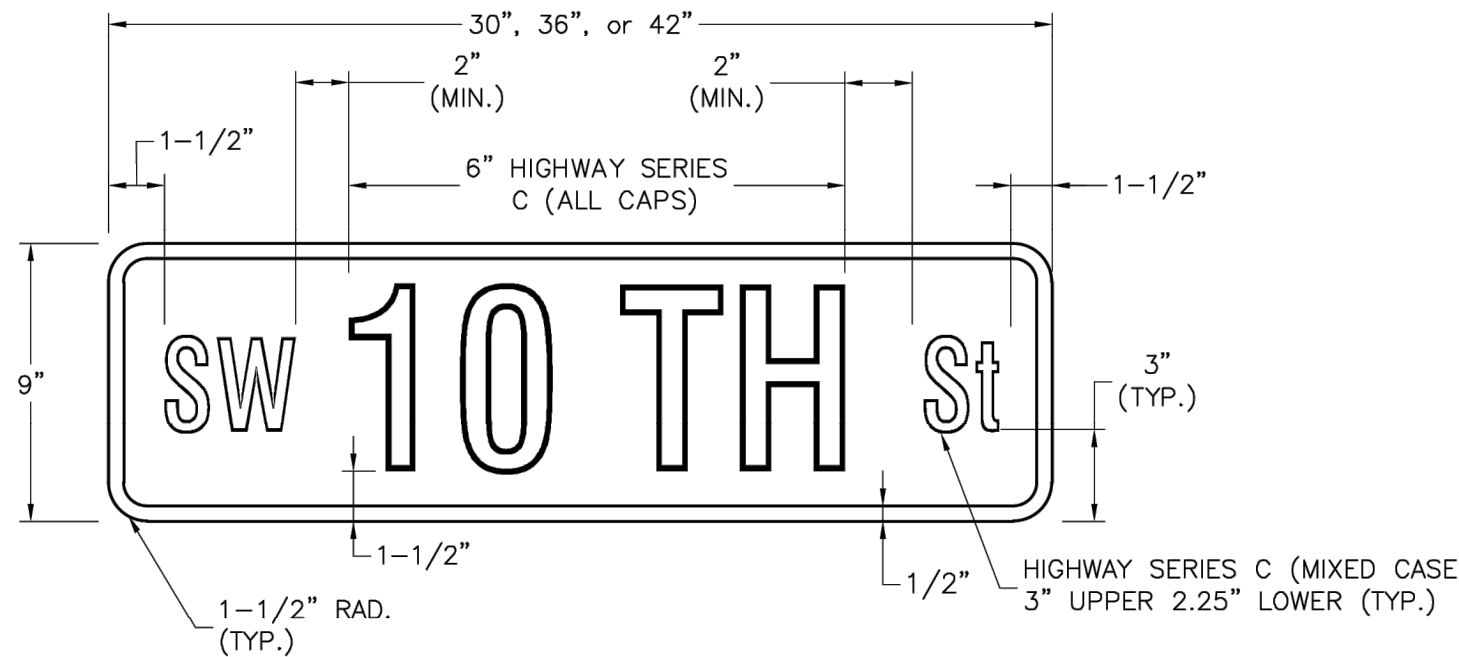


NAMED STREET NAME SIGN DETAIL

* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

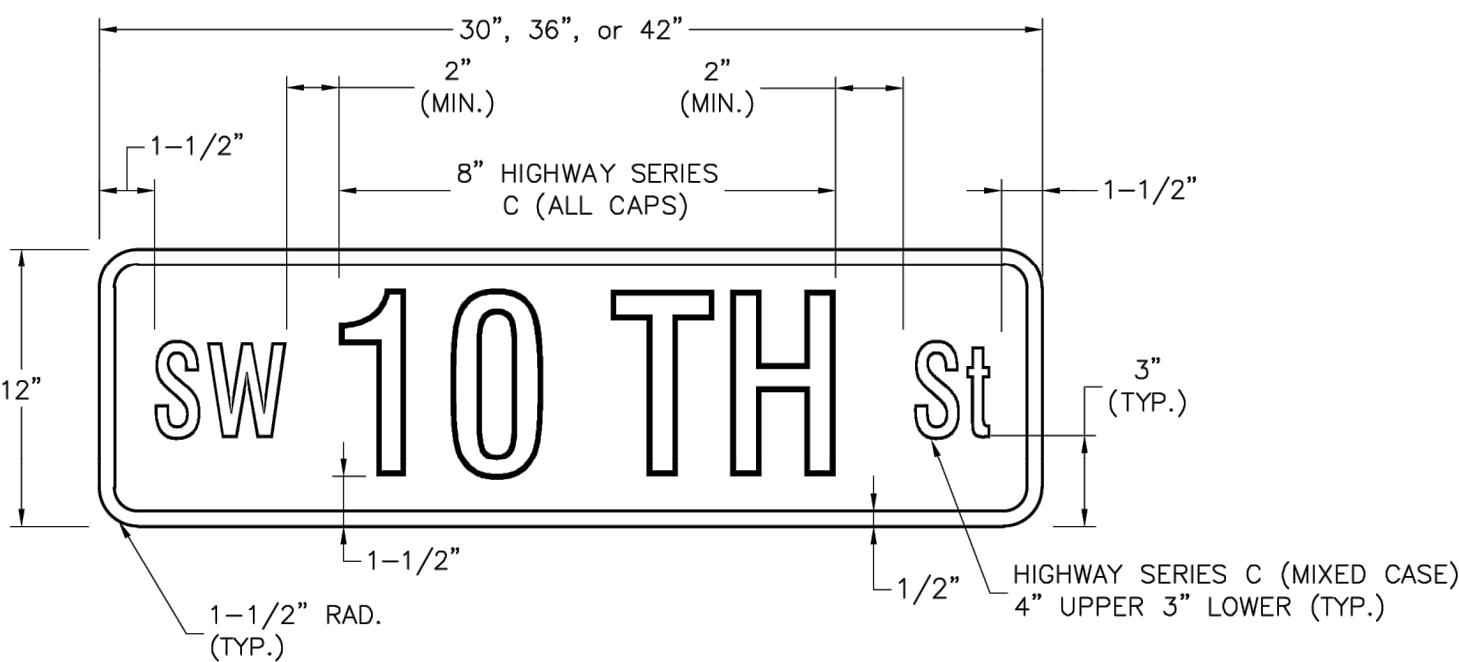
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



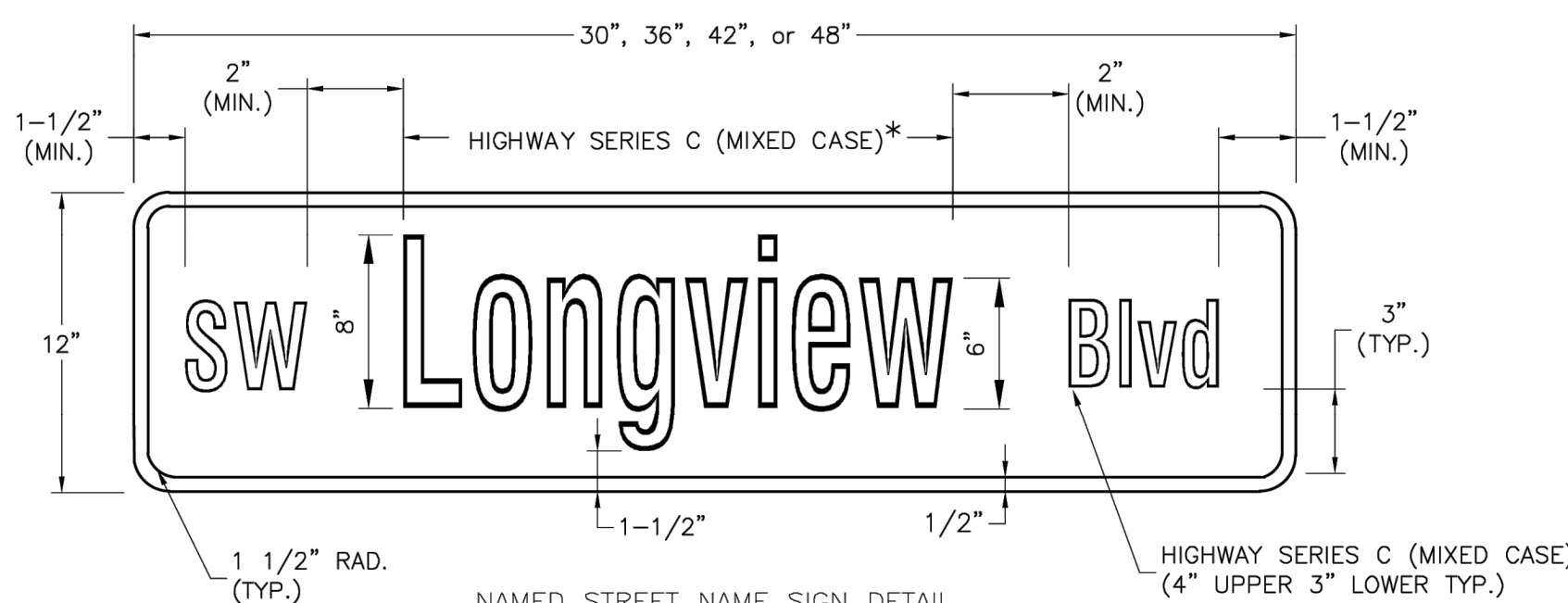
NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH

NOTES:

- FOR ALL STREET NAME SIGNS, THE LEGEND SHALL BE WHITE AND THE BACKGROUND SHALL BE GREEN.
- ARROWS SHALL BE ADDED TO STREET NAME SIGNS WHERE THE NAME OF A STREET CHANGES AT AN INTERSECTION. STREET NAME SIGNS WITH ARROWS ARE TO BE INSTALLED ON EACH SIDE OF THE INTERSECTION TO INDICATE THE CHANGE IN NAMES. ARROWS SHALL BE WHITE.
- THE "PRIVATE STREET" TAG SHOULD BE ADDED TO THE END OF STREET NAME SIGNS TO INDICATE WHERE A STREET THAT IS OUTSIDE THE RIGHT-OF-WAY INTERSECTS A PUBLIC STREET. THE BACKGROUND FOR THE "PRIVATE STREET" TAG SHALL BE YELLOW.
- MULTI-LANE IS DEFINED AS HAVING 2 LANES OR MORE IN EACH DIRECTION, EXCLUDING TURN LANES.
- OVERHEAD SIGN DETAILS MAY BE FOUND ON THE SIGNAL HEAD MOUNTING DETAIL.

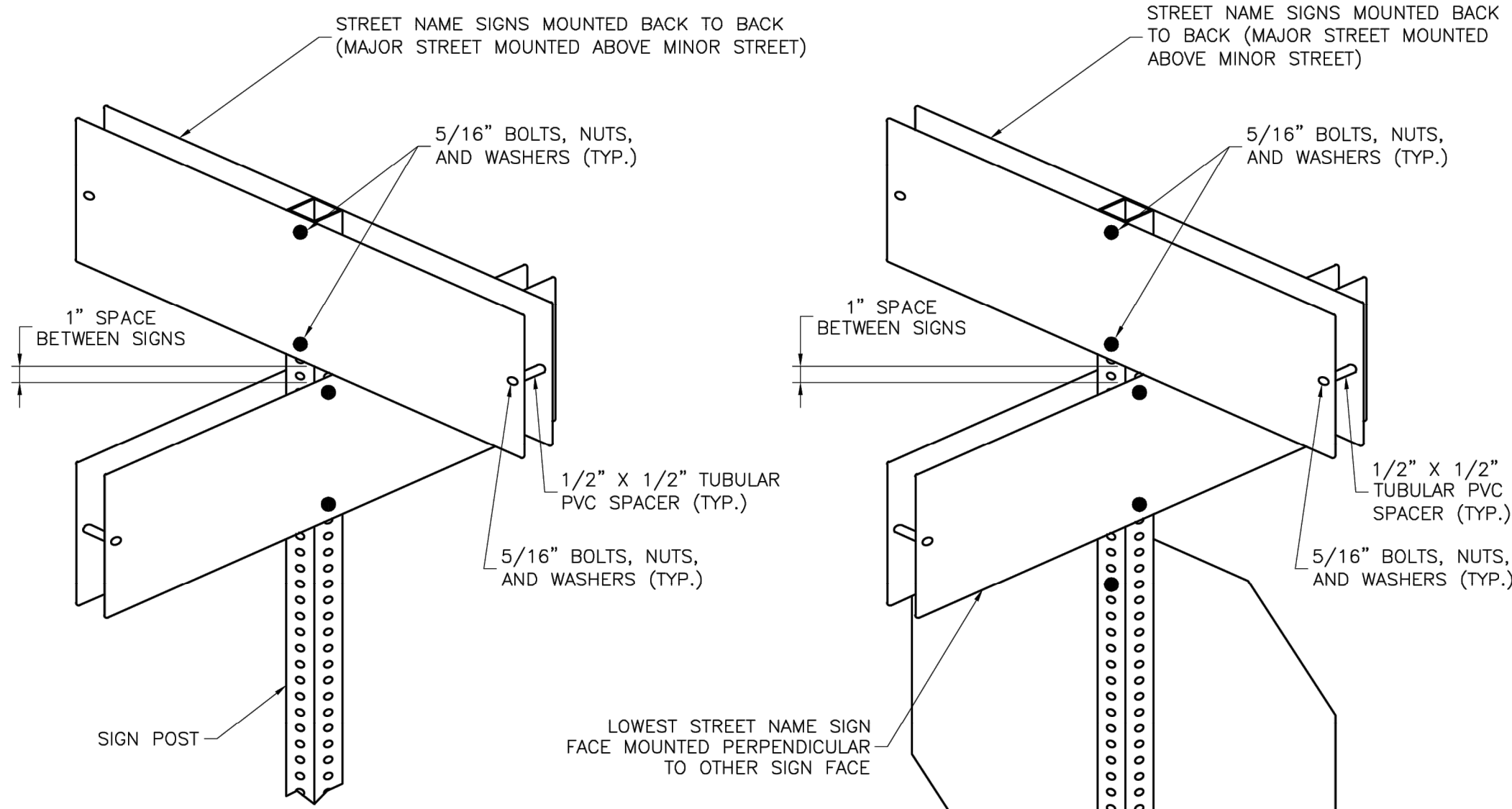


NAMED STREET NAME SIGN DETAIL

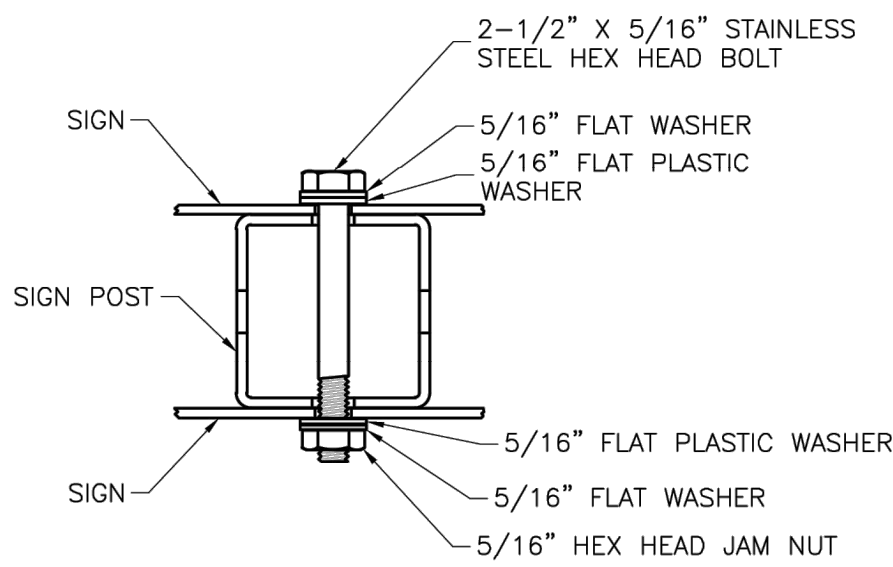
* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH



SIGNS INSTALLED SEPARATELY



PLAN VIEW

SQUARE STEEL POST MOUNTING DETAILS

STREET NAME SIGN INVENTORY

66"	SE Bailey Farms Pkwy	D3-1 (SP-1)
66"	SE Vantage Point Dr	D3-1 (SP-1)
48"	SE Windbreak Dr	D3-1 (SP-3)

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Date: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

STREET NAME SIGN DETAILS

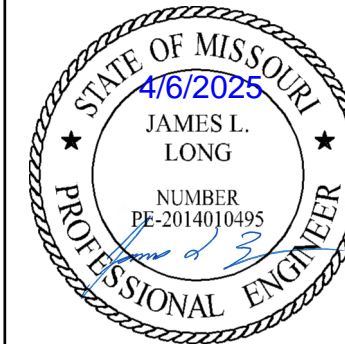
Project:

Sheet Name:

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-3

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

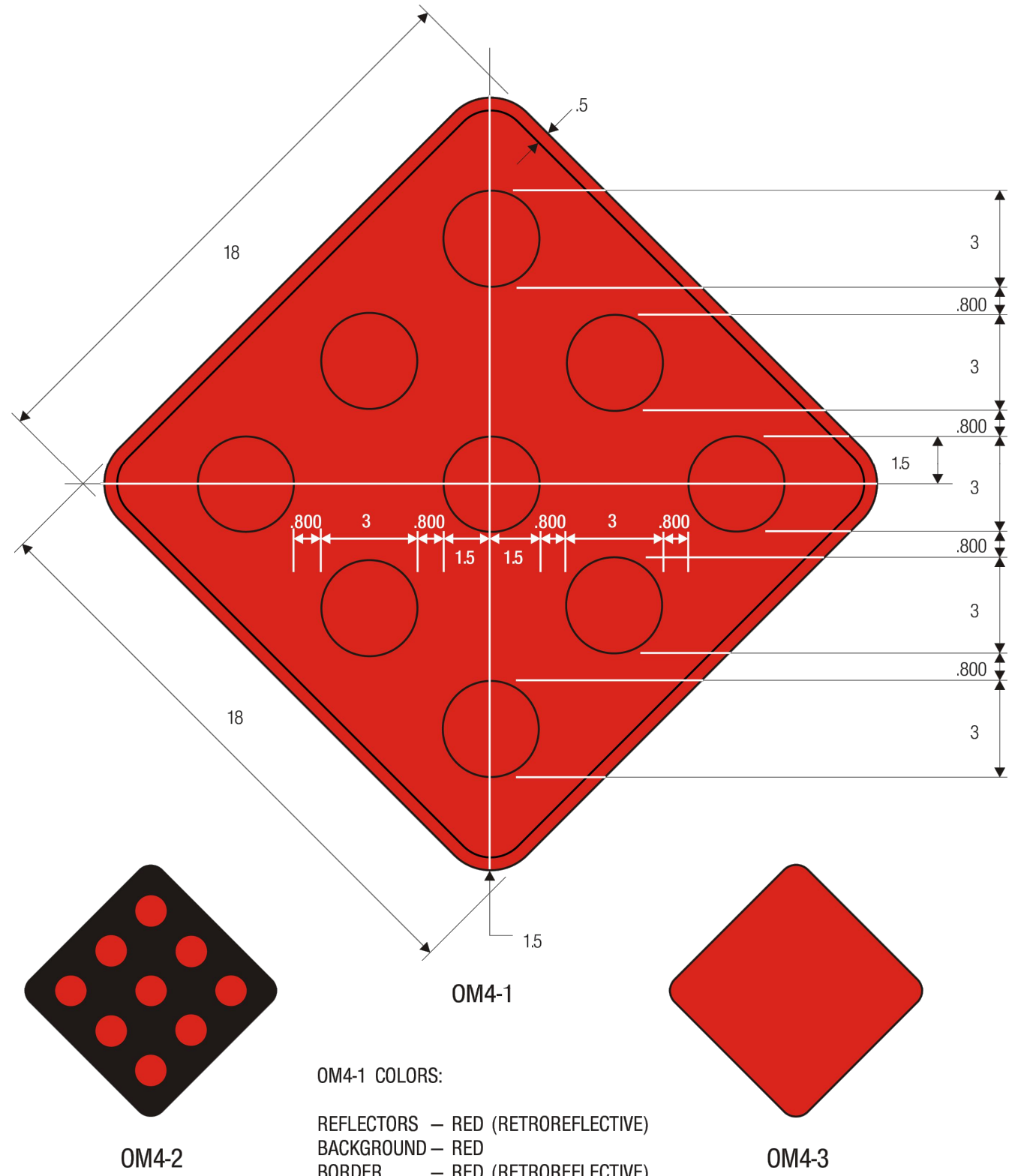
REVISION DATE	DESCRIPTION
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04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
09/08/2022	REVISED FIELD INLET
11/01/2022	REVISED INLET 09 TO MCDOT S1 INLET
10/27/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

DRAWN BY:	JRL
CHECKED BY:	JLL
DATE PREPARED:	02/09/2022
PROJ. NUMBER:	21-133

STREET NAME
SIGN DETAILS

SHEET

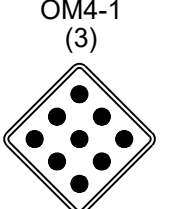
18



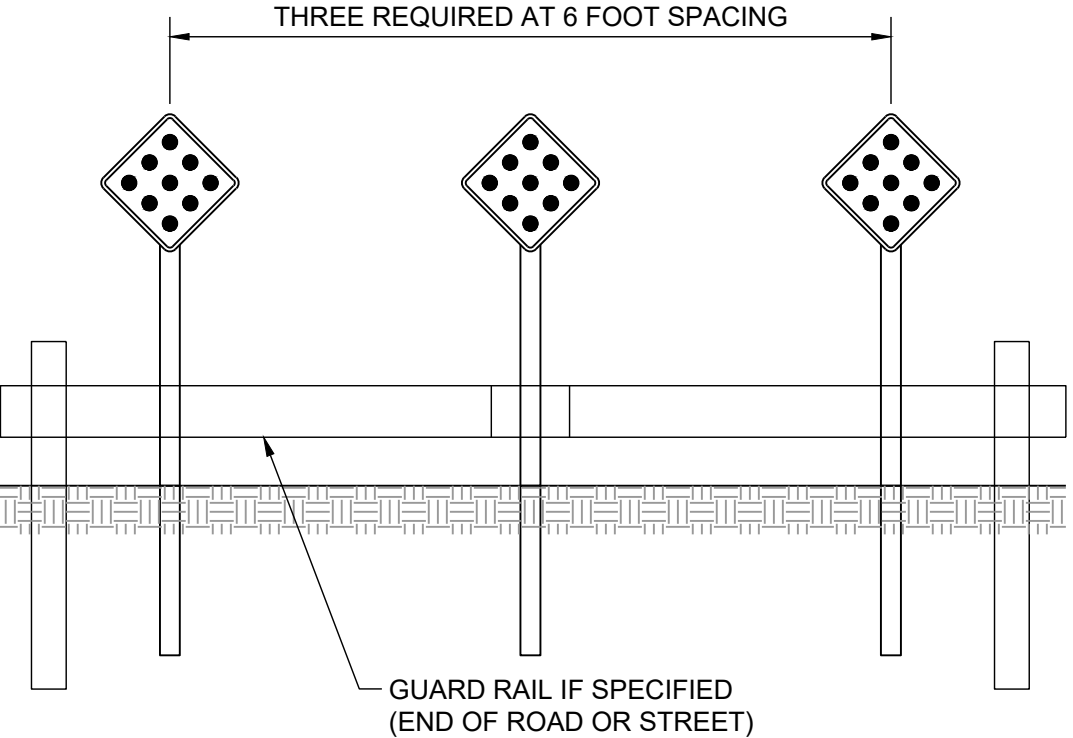
11-4



R1-1
STOP SIGN



NOTE:
THICKNESS OF FLAT SHEET FOR END OF ROAD
MARKERS SHALL BE 0.0063". RED REFLECTORS
ON RED BACKGROUND.



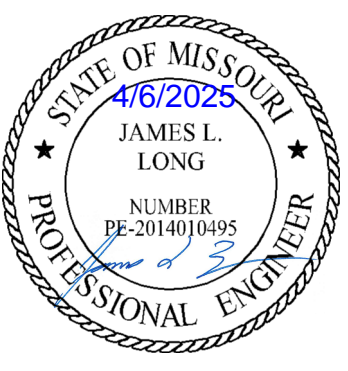
RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates.

"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: 04/01/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlager and Associates, P.A.

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
03/21/2022	PER CITY COMMENTS
04/20/2022	PER CITY COMMENTS DATED 02/25/2022
08/25/2022	ADD FIELD INLET
09/08/2022	REVISED FIELD INLET
11/01/2022	REVISED INLET 09 TO MCDOT S1 INLET
02/09/2023	Updated City Details to 2023 Details
11/30/2023	Added "New City Requirements" Note
04/02/2025	As-Built

OM-4 SIGN
DETAILS

SHEET

19