	EXISTING LOT AND R/W LINES
	EXISTING PLAT LINES
—— P/L ——	PROPERTY LINES
	RIGHT-OF-WAY
	SANITARY SEWER MAIN
	SANITARY SEWER MAIN - EXIST.
STO	STORM SEWER
	STORM SEWER - EXISTING
CATV _X	CABLE TV - EXISTING
——— FOC _X ———	FIBER OPTIC CABLE - EXISTING
T_X	TELEPHONE LINE - EXIST.
——— E _X ———	ELECTRIC LINE - EXISTING
—— OHP _X ——	OVERHEAD POWER LINE - EXIST.
—— UGE _x ——	UNDERGROUND ELECTRIC - EX.

CURB & GUTTER - EXISTING

ASPHALT PAVEMENT - PROPOSED

CONCRETE PAVEMENT - EXISTING

CONCRETE SIDEWALK - EXISTING

CONCRETE SIDEWALK - PROPOSED

CURB & GUTTER

TREELINE

—— G_v —— 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

LOCATION

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 Dejarnette 1300 SE Hamblin Road

Lee's Summit, MO 64081 Office: (816) 347-4316 Cell: (816) 810-5234 ron.dejarnette@evergy.com

CITY OF LEES SUMMIT PUBLIC WORKS Dena Mezger

220 SE Green Street Lee's Summit, MO 64063 (816) 969-1800

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

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

(816) 969-1900

CITY OF LEE'S SUMMIT WATER UTILITIES Mark Schaufler 1200 SE Hamblen Road Lee's Summit, MO 64081

SUMMARY OF QUANTITIES					
	ITEM	QUANTITY	UNITS		
2	8" PVC SDR-26	989	LF		
3	6" PVC SDR-26	1,632	LF		
5	8" x 6" WYES	35	EA		
6	STD. 4' DIAMETER MANHOLE	5	EA		
7	CONNECT TO EXISTING MANHOLE	1	EA		
8	EXTRA DEPTH IN MANHOLE	41	VF		
9	TRACER WIRE AND BOXES	35	EA		
10	ROCK EXCAVATION (ESTIMATED)	250	CY		
11	MANHOLE BARREL ADJUSTMENT	2	EA		
12	MANHOLE RING ADJUSTMENT	2	EA		
13	EROSION CONTROL	1	LS		
14	BONDS	1	LS		

SANITARY MAIN EXTENSION PLANS

RETREAT AT BAILEY FARMS, FIRST PLAT

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

ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS

MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS

ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.

WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.

AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS

LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

CONTRACTOR, OR AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.

ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE

LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE

THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND

THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL

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

CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED

THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO

THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND

ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO

INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO

ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL

TRENCH, TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE

DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.

THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION)

ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING

INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE

PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN

THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED

EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING

WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO 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

ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK

Record Drawing

Sheet List Table		
Sheet Number	Sheet Title	
1	COVER SHEET	
2	GENERAL LAYOUT	
3	LINE K PLAN AND PROFILE	
4	LINE K PLAN AND PROFILE (2)	
5	LINE M PLAN AND PROFILE	
6	SANITARY SEWER DETAILS	
7	SANITARY SEWER DETAILS	
·		

PREPARED BY

SCHLAGEL & ASSOCIATES, P.A

APPROVED FOR ONE YEAR FROM THIS DATE

APPROVED BY

CITY ENGINEER

OWNER/DEVELOPER

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

UTILITIES:

GENERAL NOTES:

ADOPTED BY ORDINANCE 5813.

ENGINEER FOR APPROVAL.

- 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
- 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.

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: 04/02/2025

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

CONTRACTOR SHALL OBTAIN ELEVATIONS AND LOCATIONS FOR ALL SANITARY SEWER SERVICE LINES AND SHALL SUPPLY THIS INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION IN THE AS-BUILT RECORD DRAWINGS.

New City Requirements:

Flowable fill required per City specifications at all sanitary sewer structures.



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

COVER SHEET

AIL



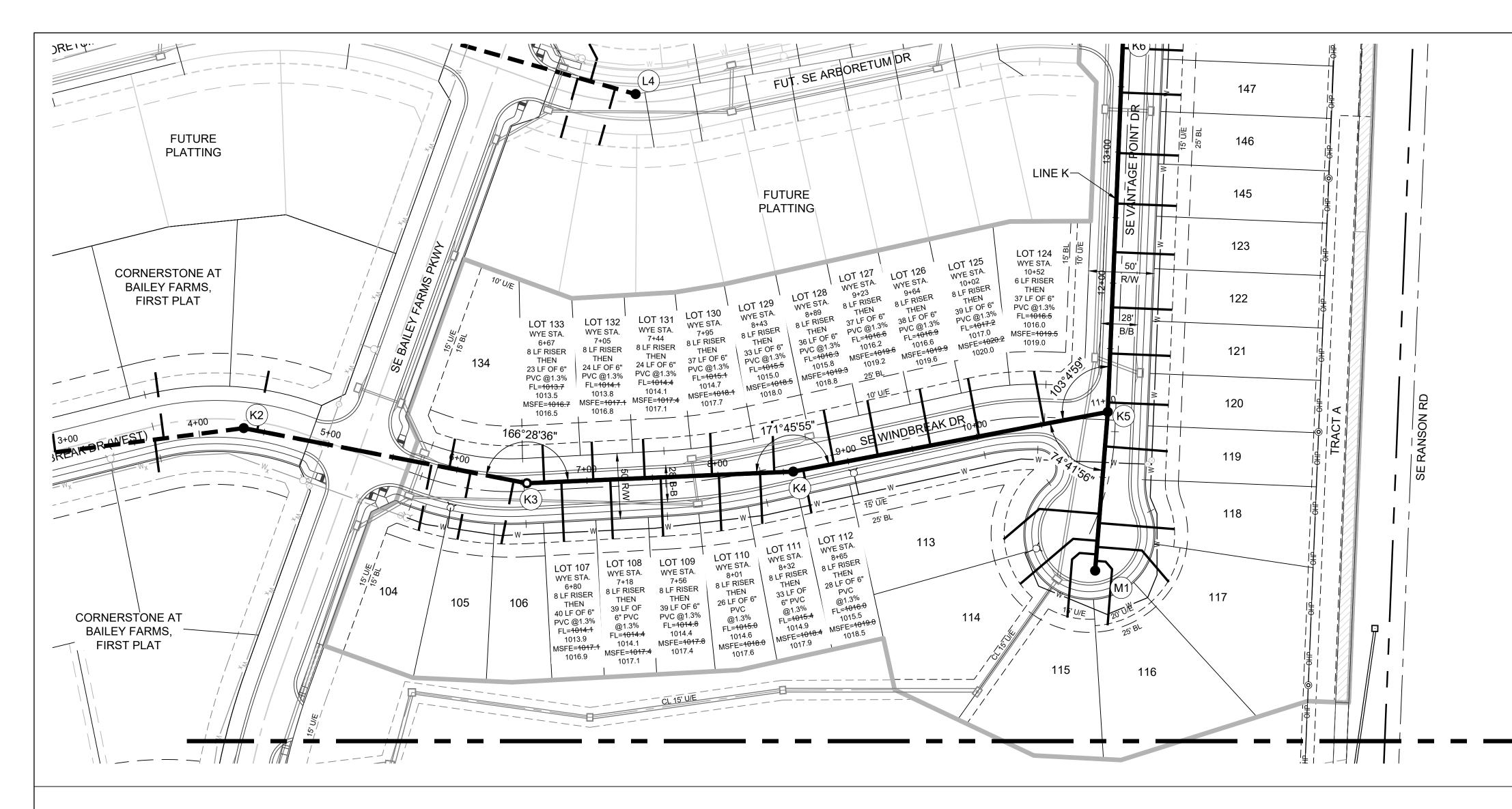
PREPARED BY:

NUMBER

SCHLAGEL & ASSOCIATES, P.A.

BAIL

GENERAL LAYOUT



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

Record Drawing

GENERAL NOTES:

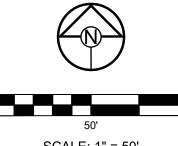
(UNPLATTED)

OWNER: CONSERVATION COMMISSION OF MISSOURI

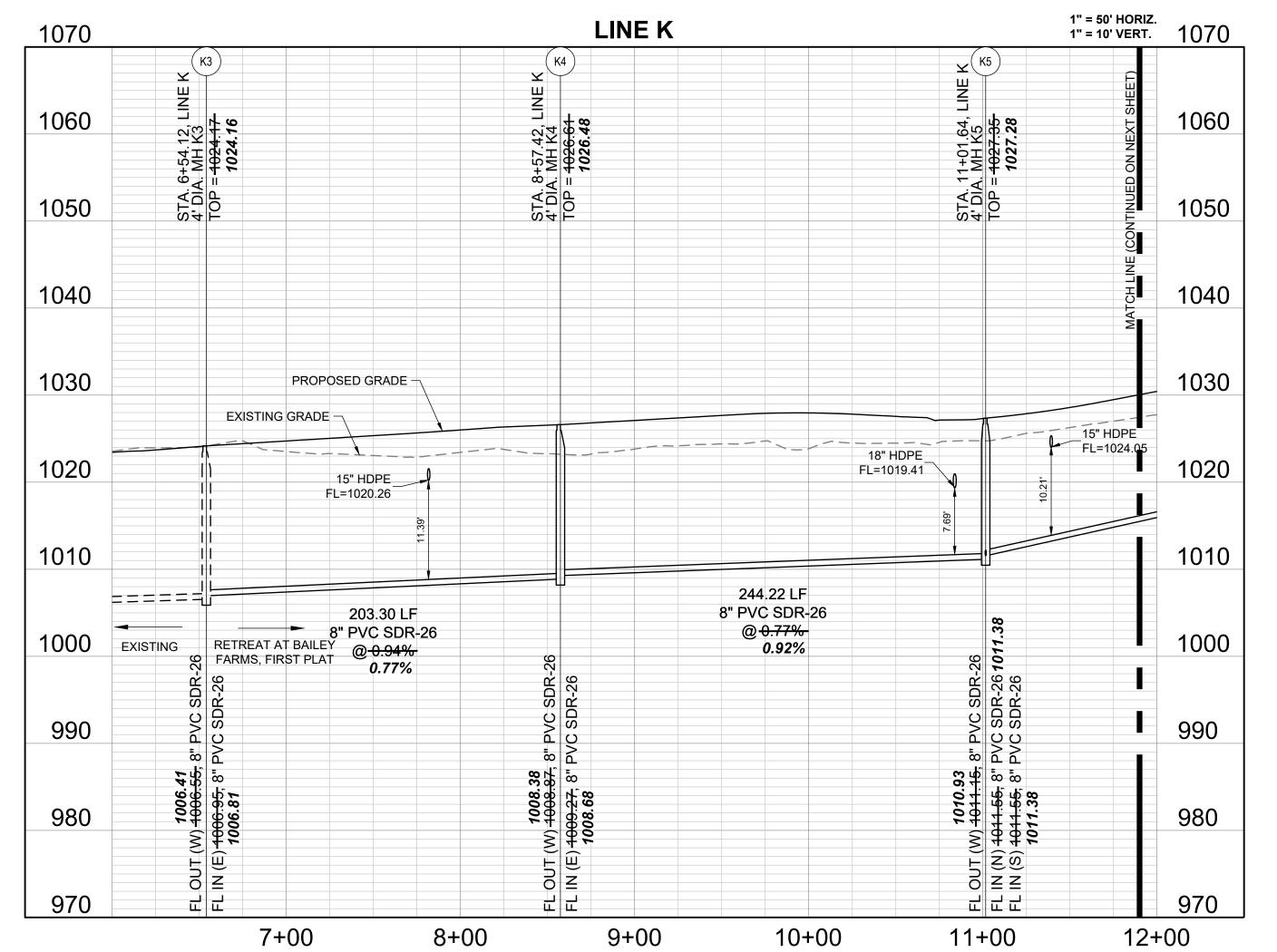
- 1. ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
- 2. M.S.F.E DENOTES MINIMUM SEWERABLE FLOOR ELEVATION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY
- 4. ALL SERVICE LINES ARE TO BE 90° TO THE MAIN UNLESS OTHERWISE NOTED.
- 5. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE

CONTRACTOR SHALL OBTAIN ELEVATIONS AND LOCATIONS FOR ALL SANITARY SEWER SERVICE LINES AND SHALL SUPPLY THIS INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION IN THE AS-BUILT RECORD DRAWINGS.





SCALE: 1" = 50'



RECORD DRAWING

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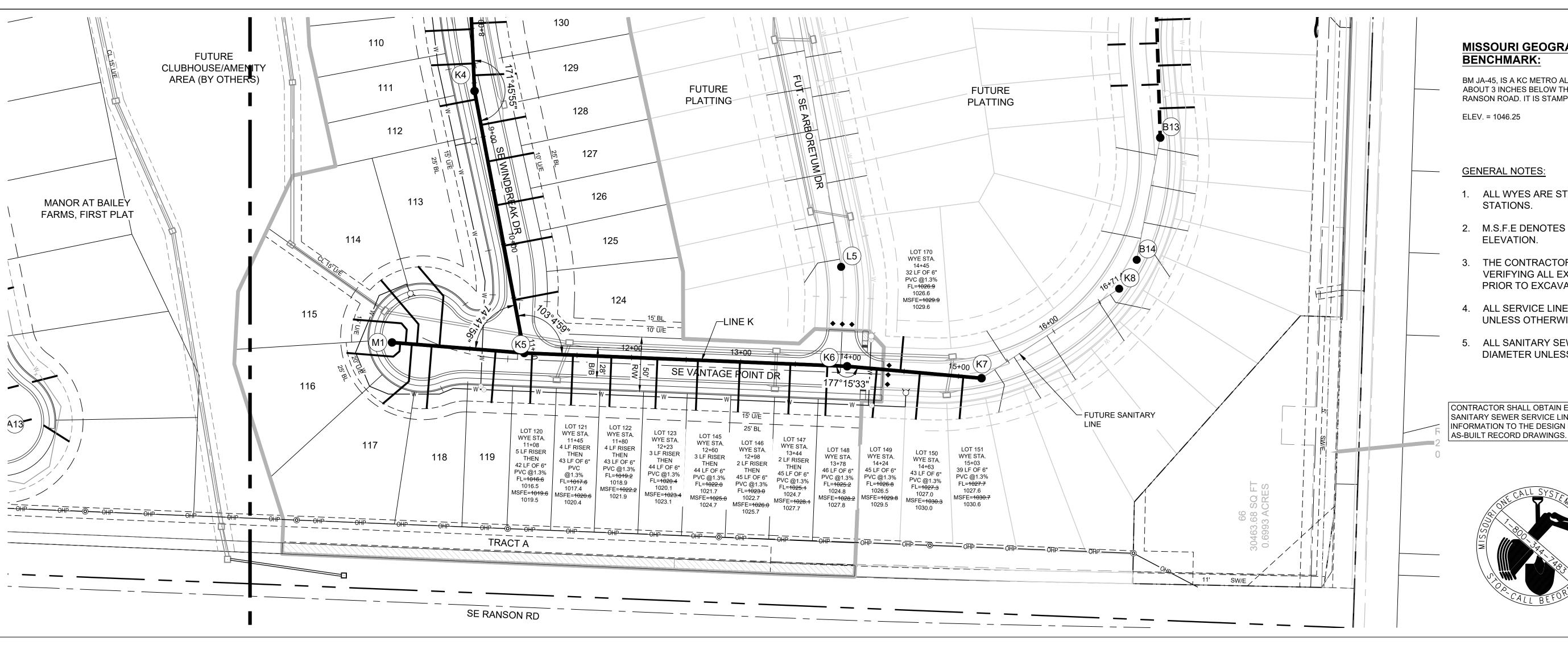
Date: 04/02/2025 Certified by: JLL Title: Senior Project Engineer
Firm: Schlagel and Associates, P.A. PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

RETREAT AT BAILE SANITARY MAIN BAIL

LINE K PLAN AND PROFILE



1070

1060

970

12+00

13+00

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.

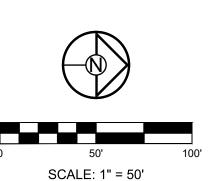
ELEV. = 1046.25

GENERAL NOTES

- 1. ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
- 2. M.S.F.E DENOTES MINIMUM SEWERABLE FLOOR ELEVATION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.
- 4. ALL SERVICE LINES ARE TO BE 90° TO THE MAIN UNLESS OTHERWISE NOTED.
- 5. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL OBTAIN ELEVATIONS AND LOCATIONS FOR ALL SANITARY SEWER SERVICE LINES AND SHALL SUPPLY THIS INFORMATION TO THE DESIGN ENGINEER FOR INCLUSION IN THE





Record Drawing

1050 1050 1040 1040 PROPOSED GRADE -EXISTING GRADE -1030 1030 8" Water - 15" HDPE_ FL=1029.82 FL=1032.65 123.57 LF 1020 1020 8" PVC SDR-26 @ 1.21% **1.45%** 295.91 LF 8" PVC SDR-26 RETREAT AT BAILEY FARMS, FIRST PLAT FUTURE PLATTING 1010 1010 @ 4.46% 4.36% 1000 1000 NOTE: FLOWLINE IN IS FOR INFORMATIONAL PURPOSES ONLY. FUTURE CONNECTION TO BE MADE BY CORE DRILLING CONNECTION. **1026.63** FL OUT (S) 1026.73, 8" PVC SDR-26 FL IN (NW) 1027.13, 8" PVC SDR-26 990 990 980 980

14+00

LINE K

1" = 50' HORIZ. 1" = 10' VERT.

1070

1060

970

16+00

15+00

RECORD DRAWING

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Date: 04/02/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlagel and Associates, P.A.

PREPARED BY:

LONG NUMBER

SCHLAGEL & ASSOCIATES, P.A.

Y ROAD & : LEE'S SUN RETREAT AT BAILEY SANITARY MAIN E BAILEY

LINE K PLAN AND PROFILE (2)

1" = 50' HORIZ. 1" = 10' VERT.

1060

1050

960

0+00

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.

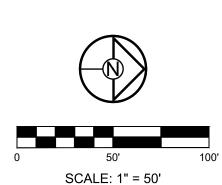
ELEV. = 1046.25

GENERAL NOTES:

- 1. ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
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Record Drawing

1040 1040 PROPOSED GRADE -1030 1030 **EXISTING GRADE -**1020 1020 8" Water ______ FL=1022.25 1010 1010 121.46 LF 8" PVC SDR-26 @ 1.20% 1.18% 1000 1000 990 990 980 980 970 970

1+00

2+00

2+50

LINE M

1060

1050

RECORD DRAWING

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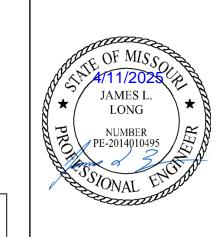
Date: 04/02/2025
Certified by: JLL
Title: Senior Project Engineer
Firm: Schlagel and Associates, P.A.

PROFILE

LINE M PLAN AND

SHEET

PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

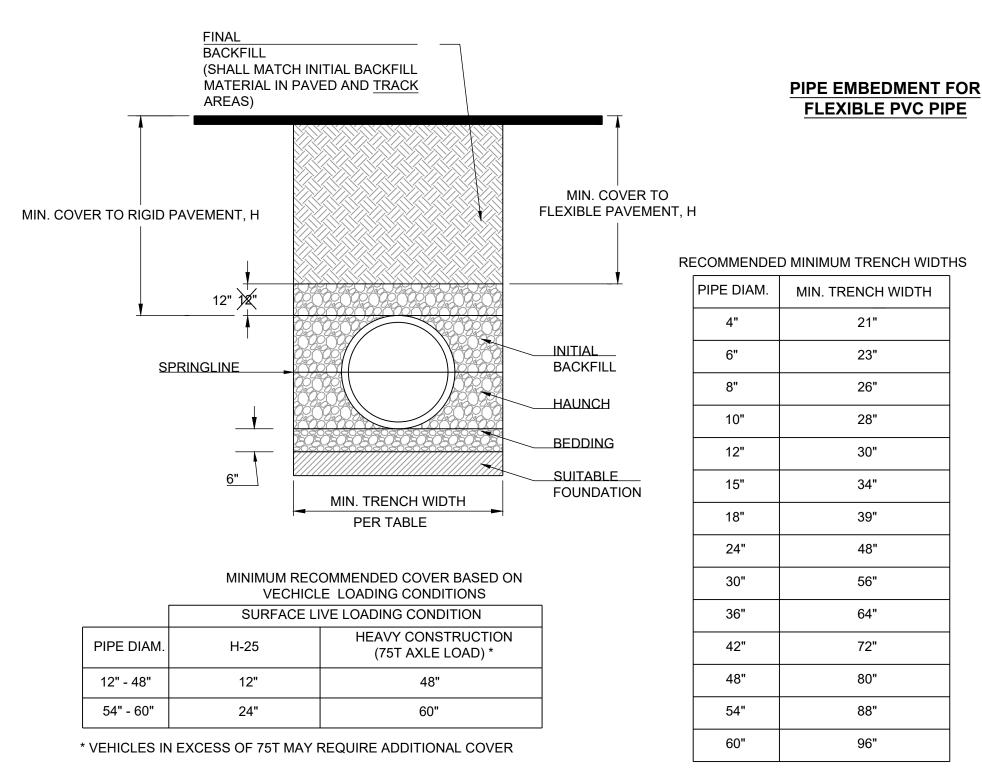
ROAD & EE'S SUN RETREAT AT BAILEY SANITARY MAIN E BAIL

RECORD DRAWING

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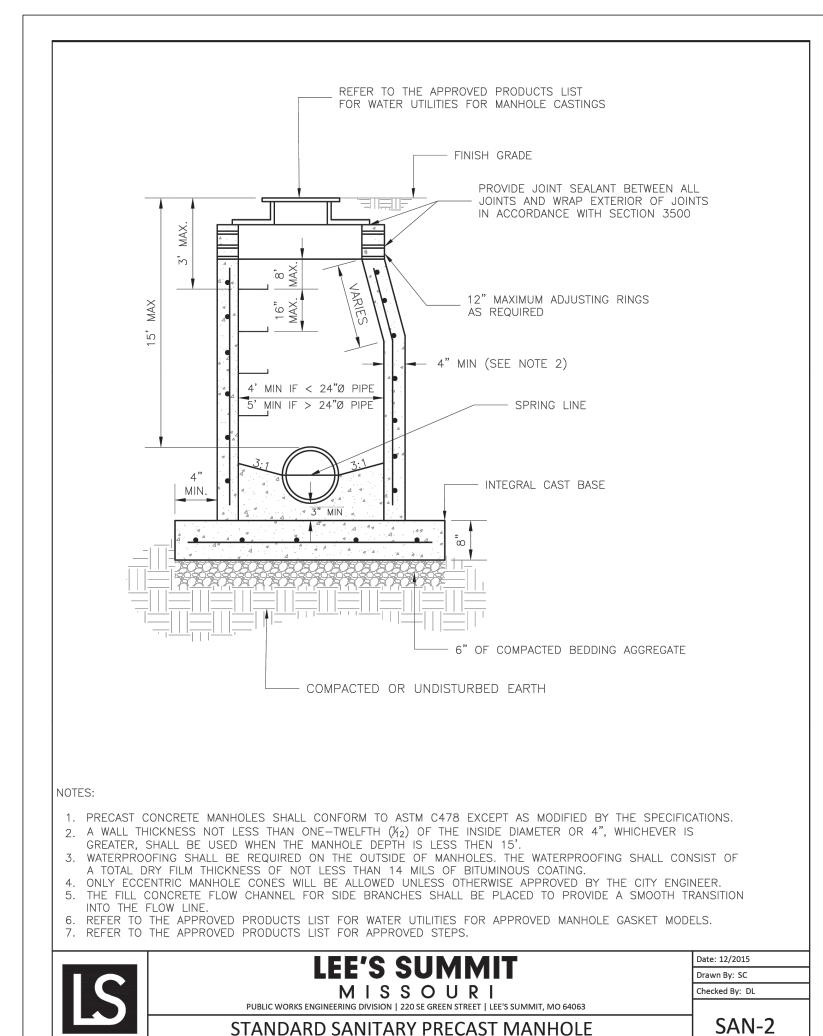
"100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 04/02/2025 Certified by: JLL Title: Senior Project Engineer Firm: Schlagel and Associates, P.A

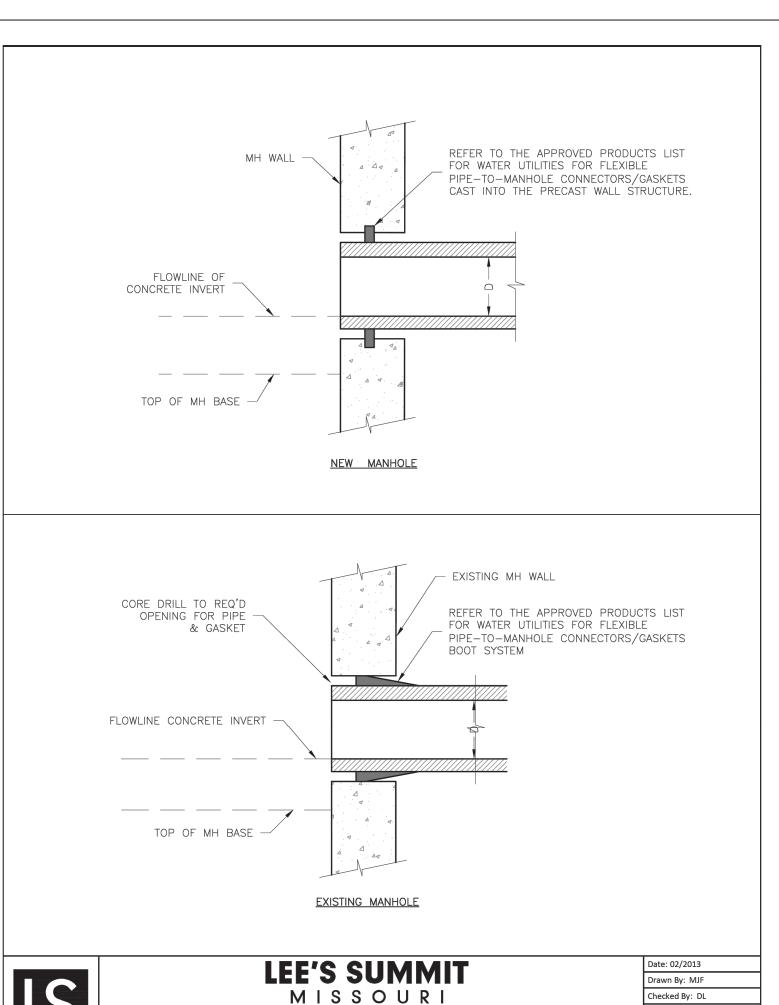


- 1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- 3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 6" (100mm).
- 5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN
- ASTM D2321, LATEST EDITION.

6 MINIMUM COVER: MINIMUM COVER H. IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND

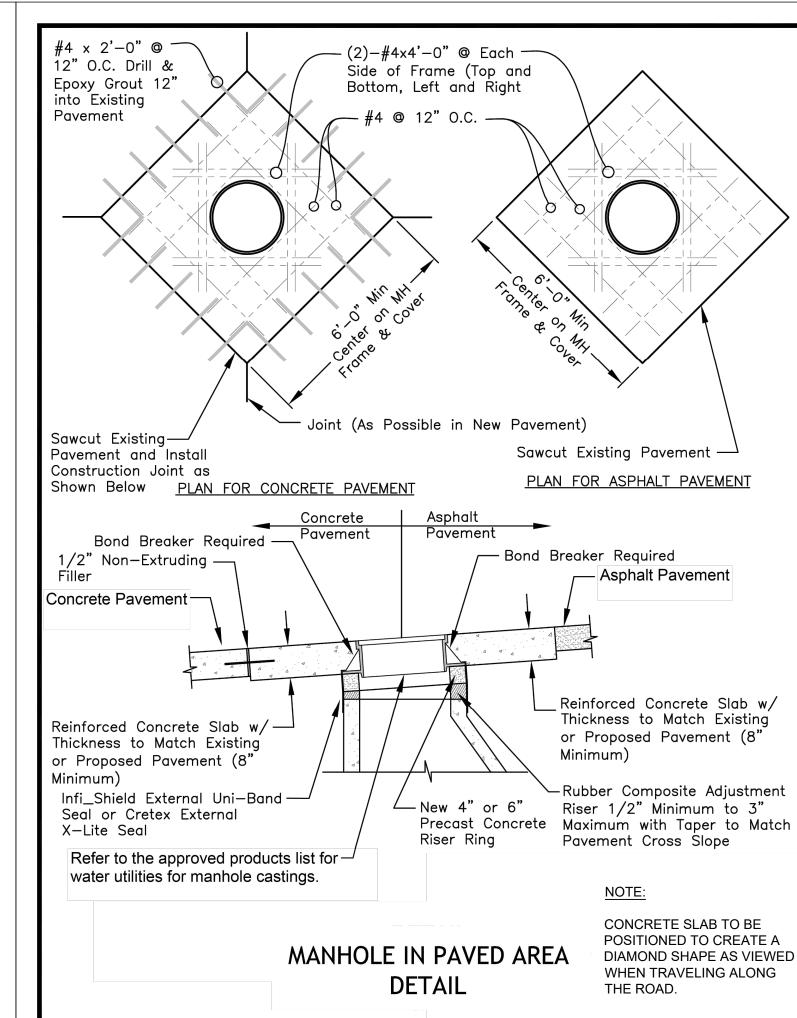


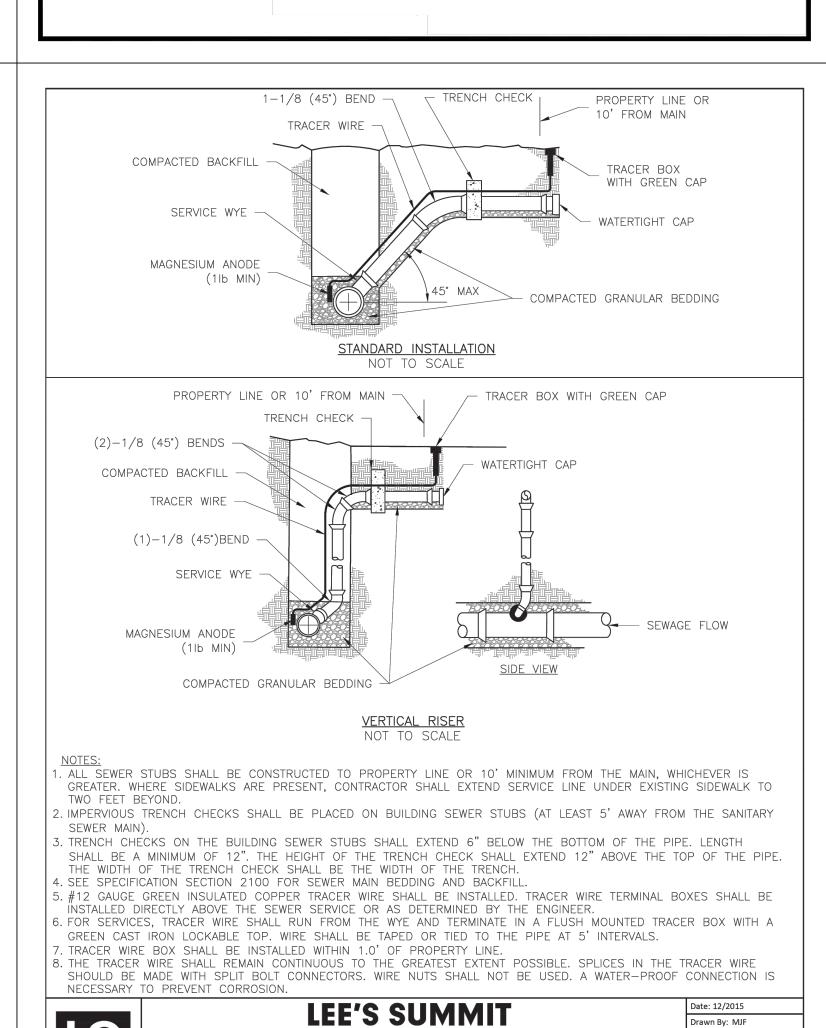
STANDARD SANITARY PRECAST MANHOLE



MANHOLE WALL CONNECTION

SAN-5





MISSOURI

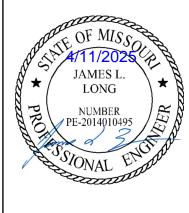
SANITARY SEWER STUB DETAIL

hecked By: DL

SAN-1

Record Drawing





SCHLAGEL & ASSOCIATES, P.A.

FARMS, F TENSIO

SANITARY SEWER DETAILS

RECORD DRAWING

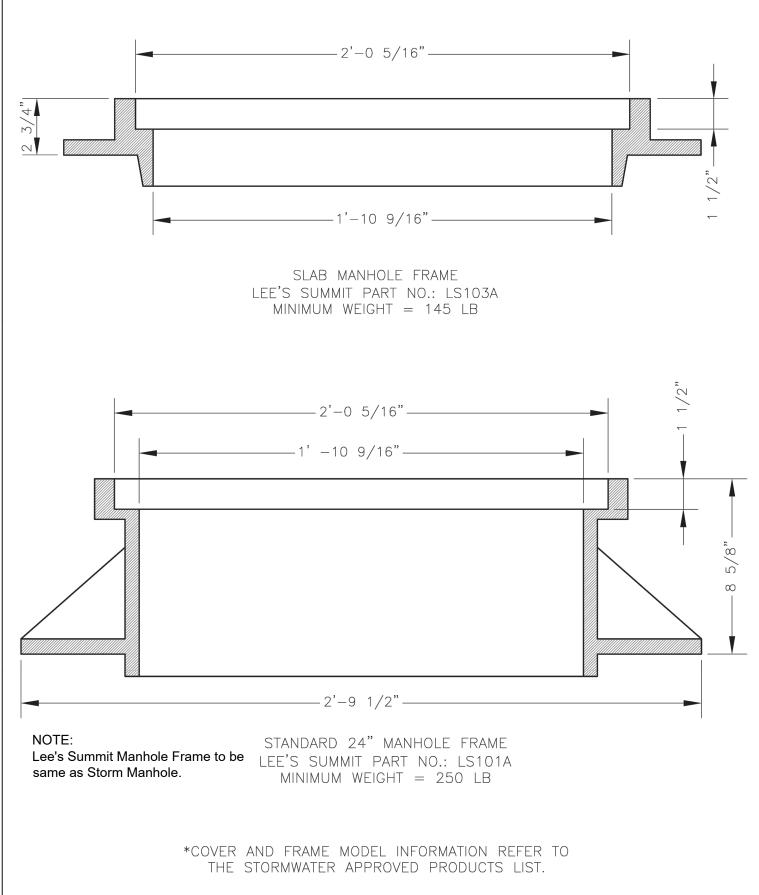
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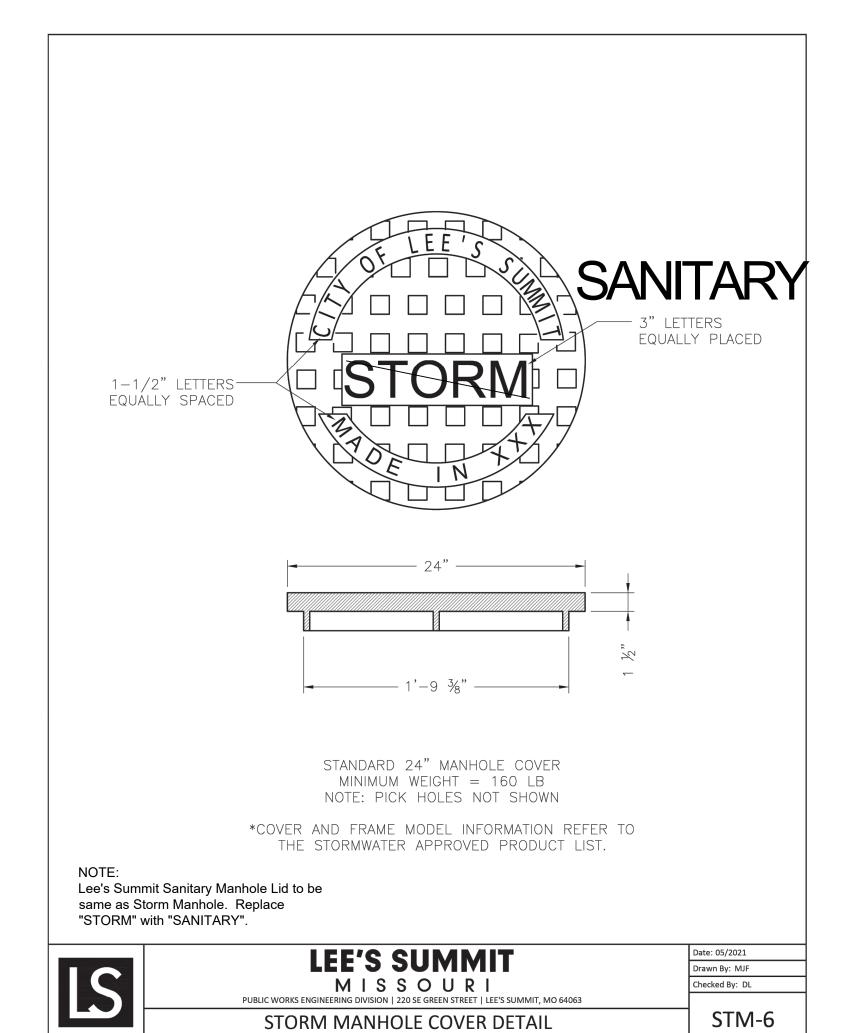
Date: <u>04/02/2025</u> Certified by: <u>JLL</u>

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

Record Drawing



	LEE'S SUMMIT	Date: 05/2021
ISL		Drawn By: MJF
		Checked By: DL
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	
	STORM MANHOLE FRAME DETAIL	DWG-7





PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

FARMS, FIRST PLAT XTENSION PLANS ROAD

RANSON I IT, MO RETREAT AT BAILEY SANITARY MAIN E BAILEY

SANITARY SEWER DETAILS