

# HIGHLAND MEADOWS - 5TH PLAT

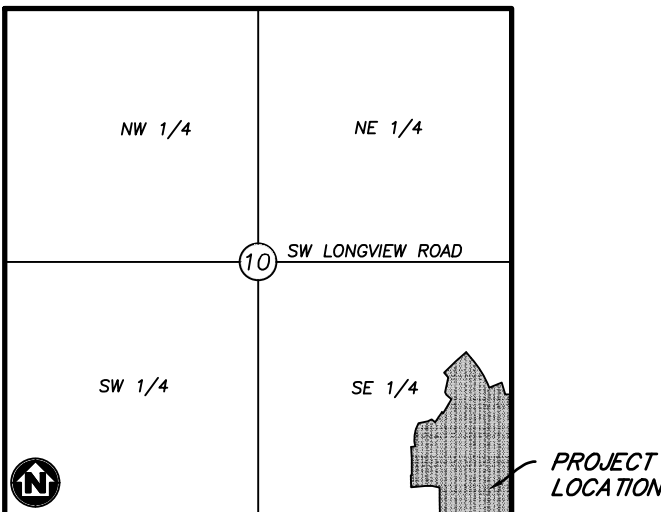
## SANITARY SEWER EXTENSION PLANS

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SEC. 10, TWP. 47N, RNG. 32W

DATE: 3/10/2021

LOTS: 134-159 (26 TOTAL)



### VICINITY MAP

SECTION 10, TOWNSHIP 47, RANGE 32  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI  
NOT TO SCALE

### LEGAL DESCRIPTION:

THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 47 NORTH, RANGE 32 WEST, EXCEPT THOSE PARTS PLATTED AS HIGHLAND MEADOWS FIRST PLAT, HIGHLAND MEADOWS SECOND PLAT, HIGHLAND MEADOWS THIRD PLAT, HIGHLAND MEADOWS 4TH PLAT, SUBDIVISIONS IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.



Know what's below.  
Call before you dig.



### UTILITY CONTACTS:

**SANITARY & WATER:**  
CITY OF LEE'S SUMMIT  
JEFF THORN  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
PHONE (816) 969-1900

**STORMWATER:**  
CITY OF LEE'S SUMMIT  
PUBLIC WORKS  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
PHONE (816) 969-1800

**STREETS:**  
CITY OF LEE'S SUMMIT  
MICHAEL PARK  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
PHONE (816) 969-1900

**AT&T:**  
RONALD GIFFERT  
500 E 8TH STREET  
KANSAS CITY, MO 64106  
PHONE (816) 275-1550

**EVERGY:**  
DOUG DAVIN  
1300 SE HAMBLIN ROAD  
LEE'S SUMMIT, MO 64081  
PHONE (816) 347-4320

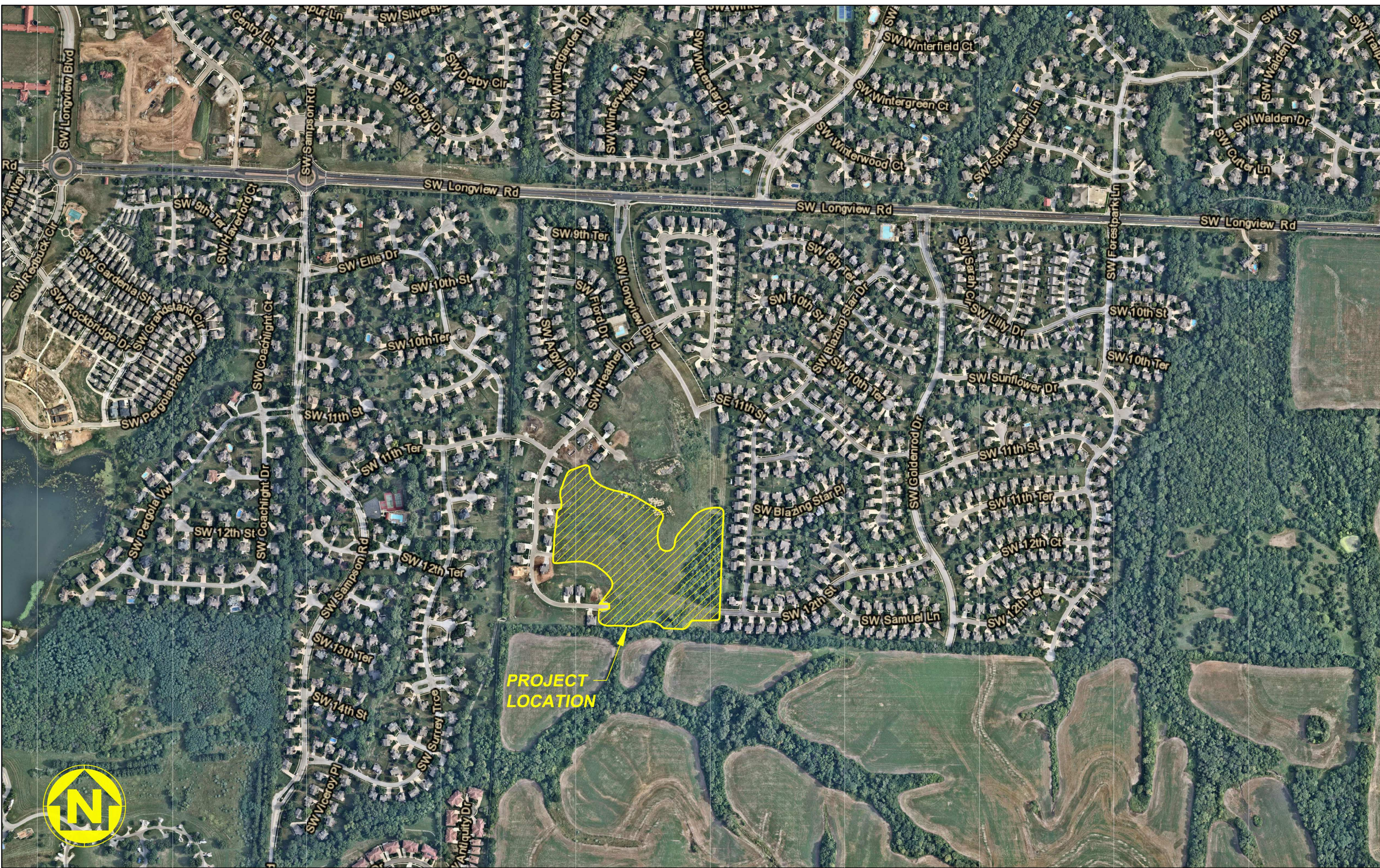
**MISSOURI GAS ENERGY:**  
RICHARD FROCK  
3025 SW CLOVER DRIVE  
LEE'S SUMMIT, MO 64082  
PHONE (816) 472-3489

### FEMA FLOOD INFORMATION:

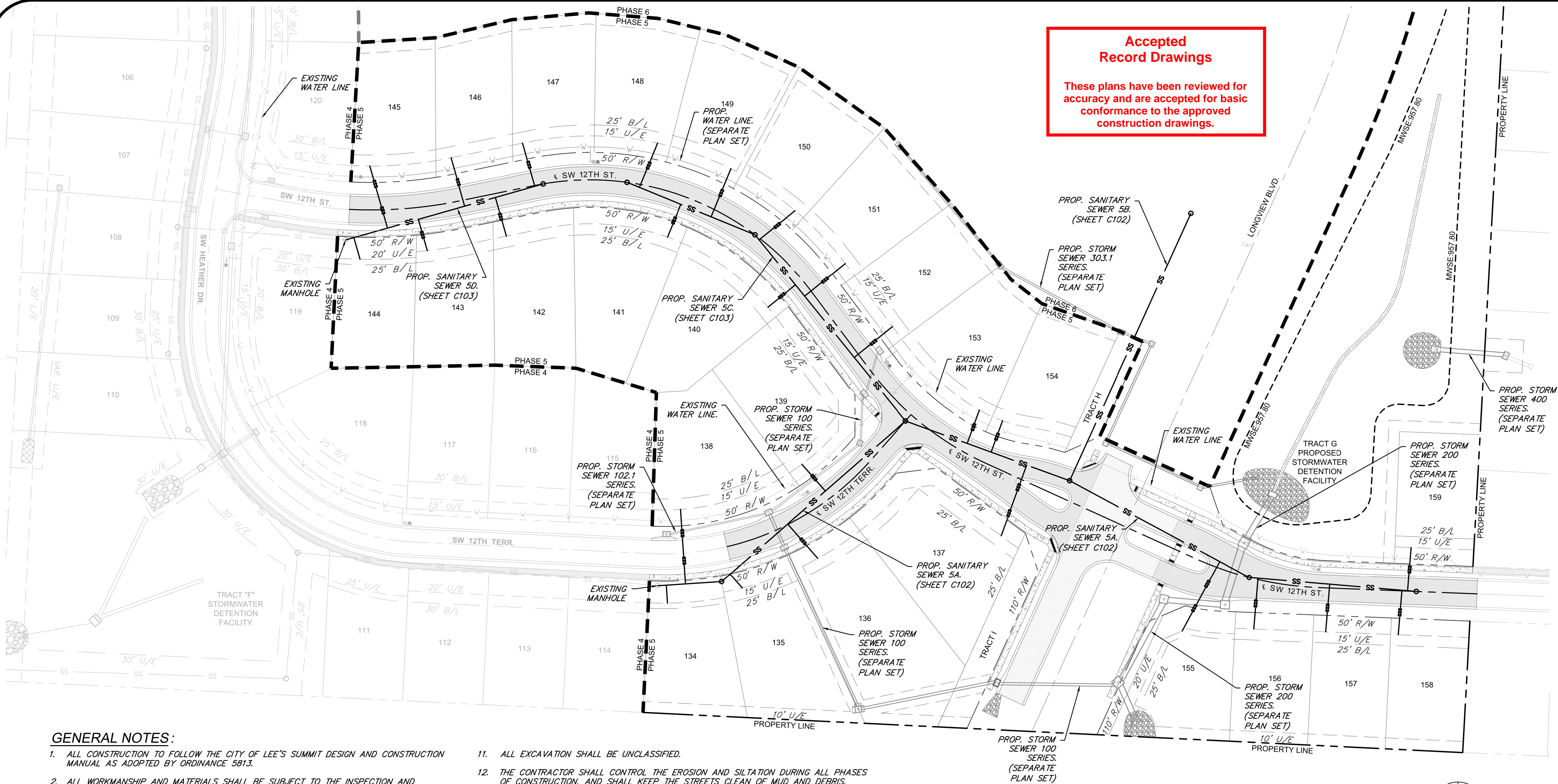
THE SITE IS LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, PER FEMA FIRM MAP 29095C0418G; EFFECTIVE DATE OF JANUARY 20, 2017. NO LETTERS OF MAP AMENDMENT OR REVISIONS ARE BEING PROPOSED.

### BENCHMARK:

BM #1 N=999843.9665 E=2898946.9717 ELEV=935.04  
DESCRIPTION = "JA-148" REFERENCE SYSTEM MONUMENT







#### 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 ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THIS PROJECT.
- 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 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DON SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 72 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 OR 811. 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 DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
- 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 EXCAVATION SHALL BE UNCLASSIFIED.
- 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. ALL EXISTING UTILITIES SHALL BE ADJUSTED AS REQUIRED.
- SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMEN OR MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATION, A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND FOR PLACING HE FLOOR SLAB.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION 48 HOURS 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).
- ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF A FLOWABLE BACKFILL, INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES, TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY MAIN.

**AS-BUILT**

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 (provided by others / obtained by my firm) "100% 100.10", "100% 1.15% slope", or "8-inch 100% 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: 03/24/2022 Certified by: GRC  
Title: Project Engineer Firm: Anderson Engineering Inc.

#### LEGEND

---	PROP. STREET C
---	PROP. RIGHT-OF-WAY
---	PROP. UTILITY EASEMENT
---	PROP. BUILDING SETBACK
---	PROP. LOT LINE
---	PROP. WATER LINE
---	PROP. SSWR
---	PROP. SSWR SERVICE
---	PROP. STREET PAVEMENT
---	PROP. LONGVIEW BLVD.
---	PROP. SIDEWALK
---	PROP. RIPRAP
---	EXISTING SIDEWALK

#### SURVEY CONTROL:

COORDINATES ARE BASED ON THE MISSOURI STATE PLANE COORDINATE SYSTEM, WEST ZONE, USING JACKSON COUNTY, MISSOURI, GEOGRAPHIC REFERENCE SYSTEM MONUMENT JA-148 (2003 ADJUSTMENT) AND ARE MODIFIED FROM GRID COORDINATES TO GROUND COORDINATES BY UTILIZING A GRID SCALE FACTOR OF 0.9999020 AT REFERENCE MONUMENT JA-148.

PROJECT ELEVATIONS ARE BASED ON JACKSON COUNTY, MISSOURI, GEOGRAPHIC REFERENCE SYSTEM MONUMENT JA-148 (2003 ADJUSTMENT).

"JA-148"-STANDARD KC METRO ALUMINUM GRS DISK SET IN CONCRETE FLUSH WITH THE GROUND AND STAMPED "JA-148, 2002" LOCATED ON THE NORTH SIDE OF 3RD STREET, 12.5 FEET NORTH OF A SIDEWALK AND 102.5 FEET WEST OF THE PARKING LOT EXIT OF CEDAR CREEK ELEMENTARY SCHOOL.

PROJECT BENCHMARK(S) AND/OR CONTROL POINT(S)

BM #1 N=999843.9665 E=2898946.9717 ELEV=935.04  
DESC="JA-148" REFERENCE SYSTEM MONUMENT

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DRAWING INFO.		REVISIONS		NO.	
BY	DATE	DESCRIPTION	DATE	NO.	DESCRIPTION
GC	1/15/21	REVISED PER CITY COMMENTS	GC	1	REVISED PER CITY COMMENTS
ZM	2/26/21	REVISED PER CITY COMMENTS	GC	2	REVISED PER CITY COMMENTS
FE-2012009232	12/2/2020	FOR REVIEW	GC	3	AS-BUILT DRAWINGS
20KC10057	000062	MO COA NO.	04/15/2021		

SUMMIT HOMES KC  
HIGHLAND MEADOWS - 5TH PLAT

#### GENERAL LAYOUT

S10, T47N, R32W  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



SHEET NUMBER  
**C101**  
2 OF 5



N:995061.92  
E:2807012.50  
RIM:971.44

950.93  
950.73

EX 4-D1  
N:995062.40  
E:2807012.94  
STA: 0+24.41  
RIM:971.19  
SUMP: -2.69  
BEGIN LINE 5D,  
CONNECT TO  
EX. MANHOLE  
FIELD VERIFY  
DEPTH AND  
LOCATION.  
EIN(E):958.69  
EOUT(W):958.40

N:995113.91  
E:2807193.65  
RIM:978.86  
FL OUT: 966.11

N:995115.64  
E:2807268.58  
RIM:978.92  
FL OUT: 966.44

N:995067.35  
E:2807384.01  
RIM:977.87  
FL IN: 962.16  
FL OUT: 961.72

N:995113.45  
E:2807192.71  
STA: 2+11.32  
RIM:978.49  
SUMP: 965.85  
END LINE 5D,  
EOUT(E):966.73

N:995114.91  
E:2807269.11  
STA: 3+43.92  
RIM:978.73  
SUMP: 966.23  
END LINE 5C,  
EOUT(E):966.73

N:995067.18  
E:2807385.49  
STA: 2+18.15  
RIM:974.71  
SUMP: 962.13  
EOUT(SE):962.13

N:994896.77  
E:2807523.63  
RIM:964.96

5-A2  
N:994897.49  
E:2807522.55  
STA: 3+10.85  
RIM:965.02  
SUMP: 950.22  
BEGIN LINE 5C,  
CONNECT TO LINE 5A.  
EIN(E):951.22  
EIN(NW):951.22  
EOUT(SW):950.72

5-B1  
N:995086.65  
E:2807782.23  
STA: 2+67.31  
RIM:964.05  
SUMP: 954.20  
END LINE 5B,  
EOUT(SW):954.70

N:995086.20  
E:2807783.85  
RIM:964.00

951.13  
950.98  
950.86

954.55

5-A5  
N:994742.17  
E:2807987.40  
STA: 8+08.07  
RIM:962.93  
SUMP: 955.91  
END LINE 5A,  
EOUT(W):956.41

N:994741.46  
E:2807987.37  
RIM:963.02  
FL OUT 956.32

5-A3  
N:994813.16  
E:2807671.94  
STA: 4+69.80  
RIM:960.00  
SUMP: 952.00  
BEGIN LINE 5B,  
CONNECT TO LINE 5A.  
EIN(SE):952.83  
EIN(NE):952.83  
EOUT(W):952.33

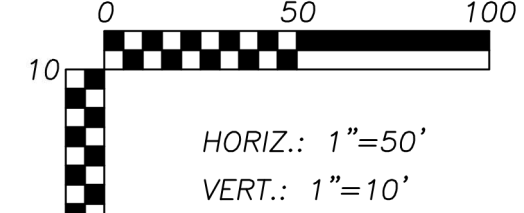
952.54  
952.59  
952.34

N:994754.20  
E:2807834.87  
RIM:958.66

5-A4 (SHALLOW MH)  
N:994754.98  
E:2807835.44  
STA: 6+55.57  
RIM:958.62  
SUMP: 954.19  
EIN(E):954.89  
EOUT(NW):954.69

Sewer laterals were constructed per plan as indicated by Redford Construction

SANITARY SEWER SERVICE				
PIPE NAME	STATION	LENGTH	SLOPE	MSFE
SSS-157	7+28.92	44'	2.00%	957.55+{(3.5')}
SSS-158	7+95.00	41'	2.00%	958.22+{(3.5')}
SSS-159	8+00.07	40'	2.00%	958.22+{(3.5')}
SSS-154	3+93.65	30'	2.00%	953.54+{(3.5')}
SSS-153	3+70.55	32'	2.00%	953.31+{(3.5')}
SSS-134	0+38.01	16'	2.00%	950.06+{(3.5')}
SSS-135	0+98.85	17'	2.00%	950.69+{(3.5')}
SSS-138	0+55.72	68'	2.00%	951.22+{(3.5')}
SSS-139	2+14.01	32'	2.00%	951.81+{(3.5')}
SSS-136	1+68.52	42'	2.00%	951.68+{(3.5')}
SSS-137	4+28.28	68'	2.00%	954.44+{(3.5')}
SSS-155	6+24.94	72'	2.00%	956.75+{(3.5')}
SSS-156	6+63.61	46'	2.00%	957.00+{(3.5')}

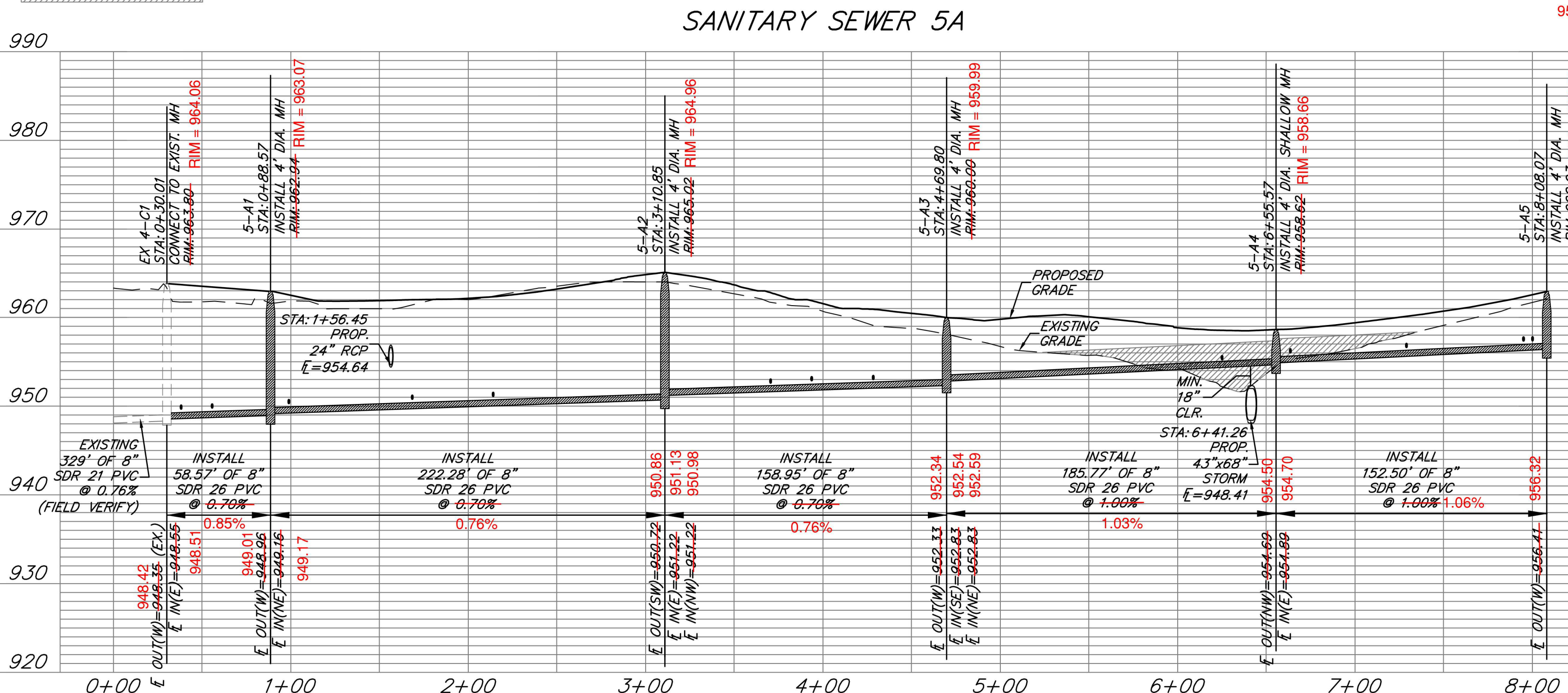


### CONTROLLED FILL:

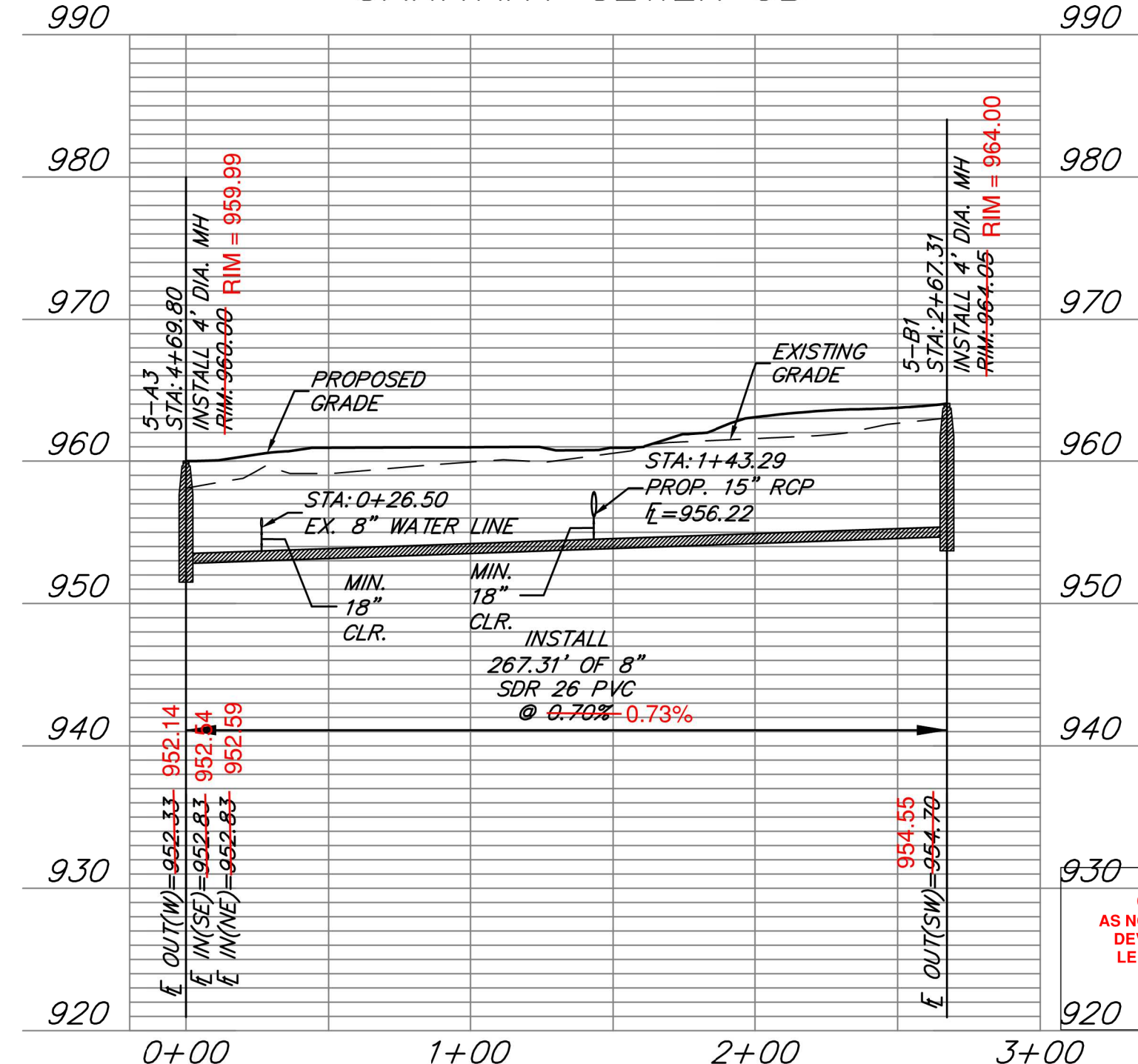
- PRIOR TO INSTALLATION OF SANITARY SEWER PIPING IN FILL AREAS, FILL SHALL BE PLACED AND COMPACTED TO A MINIMUM 95% OF STANDARD PROCTOR DENSITY PER ASTM D 698 TO A MINIMUM DEPTH OF 2 FEET ABOVE THE TOP OF PIPE.

### LEGEND

FILL PRIOR TO PIPE INSTALLATION



### SANITARY SEWER 5B



**AS-BUILT**

The information provided on this drawing conforms to construction records. It is not intended for construction. Any information that design data has been replaced with "as built" information. All other data is as designed and has not been field verified.

Date: 03/24/2022  
Title: Project Engineer  
Firm: Anderson Engineering Inc.

**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
04/15/2021

### MANHOLE STRUCTURE NOTE:

- PROPOSED MANHOLES SHALL CONFORM TO THE CITY OF LEE'S SUMMIT STANDARD DETAIL.

### GENERAL NOTES:

- ALL WORK IN PUBLIC EASEMENTS AND RIGHT-OF-WAY AND ALL EROSION CONTROL WORK MUST COMPLY WITH THE LATEST EDITION OF THE TECHNICAL PROVISIONS & STANDARD DRAWINGS FOR ROADS AND SEWERS, OF LEE'S SUMMIT, MISSOURI.
- WATER MAINS AND SANITARY SEWER MAINS/STRUCTURES SHALL HAVE AT LEAST 10' OF HORIZONTAL SEPARATION FROM EDGE OF WATER PIPE TO EDGE OF SEWER PIPE OR SEWER STRUCTURE.
- WATER MAINS AND SANITARY SEWERS SHALL HAVE AT LEAST 18" OF VERTICAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FORM THE WATER MAIN JOINTS.
- ALL SANITARY SEWER LATERALS SHALL HAVE A TRENCH CHECK, CONSISTING OF FLOWABLE BACKFILL INSTALLED DURING CONSTRUCTION. TRENCH CHECK SHALL EXTEND TO BOTTOM OF TRENCH, TO WIDTH OF TRENCH TO 12 INCHES ABOVE PIPE, FOR A MINIMUM LENGTH OF 12 INCHES. TRENCH CHECK SHALL BE LOCATED AT LEAST 5 FEET FROM SANITARY SEWER MAIN.
- ALL SANITARY SEWER LATERALS SHALL BE 4" PVC AND MAINTAIN A MINIMUM 2.0% SLOPE. REFER TO SANITARY SEWER DETAILS SHEET FOR BUILDING CONNECTION AND RISER DETAILS.

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REVISIONS				DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE	DRAWN BY:	GC
1.	REVISED PER CITY COMMENTS	GC	1/15/21	CHECK BY:	ZM
2.	REVISED PER CITY COMMENTS	GC	2/26/21	LICENSE NO.	PE-2012039232
4.	AS-BUILT DRAWINGS			DATE:	12/2/2020
		GC	3/24/22	ISSUED FOR:	FOR REVIEW
				JOB NUMBER:	20K10057
© COPYRIGHT ANDERSON ENGINEERING, INC. 2020				MO COA NO.	00062


SUMMIT HOMES KC  
HIGHLAND MEADOWS - 5TH PLAT

SANITARY SEWER A AND B  
PLAN & PROFILE

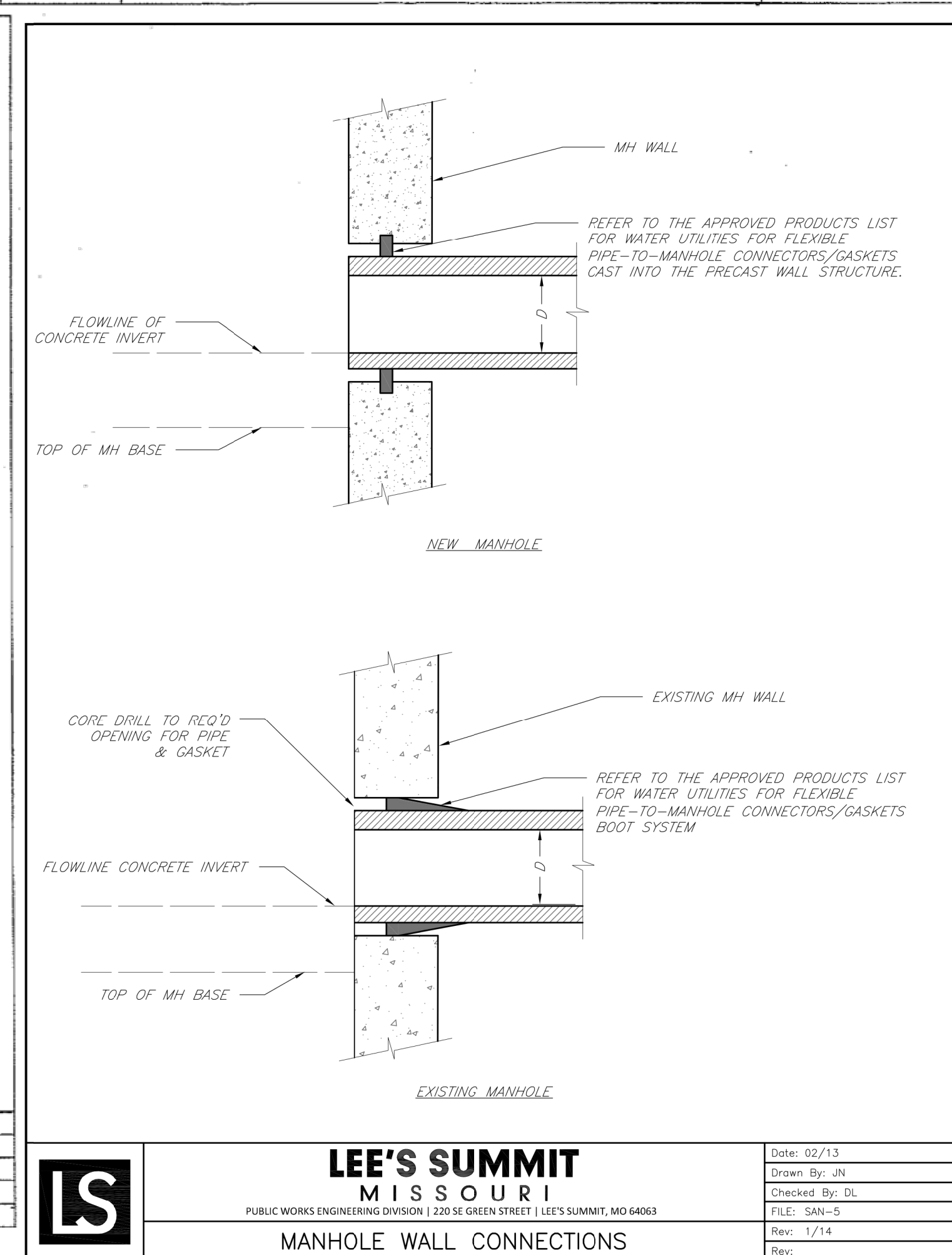
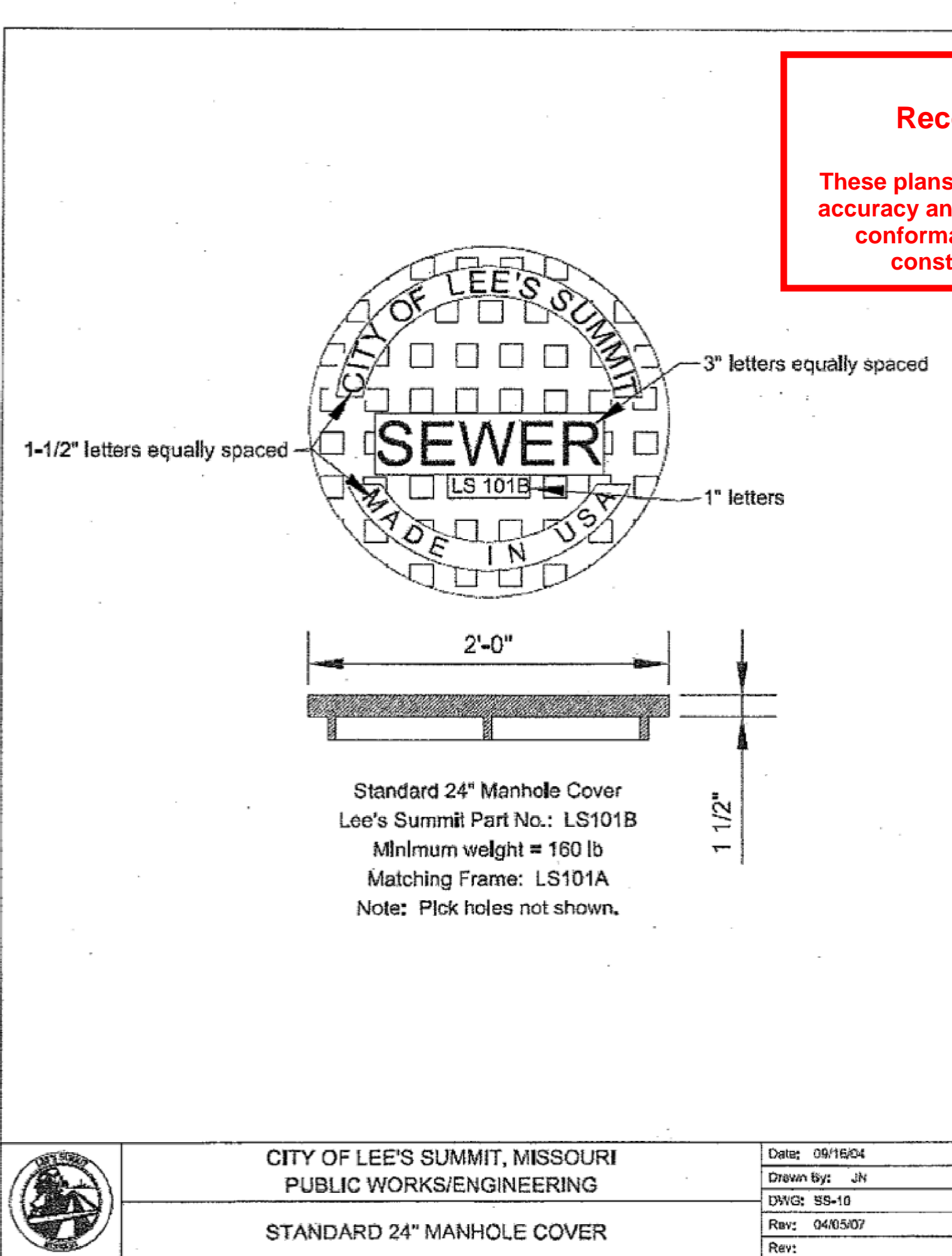
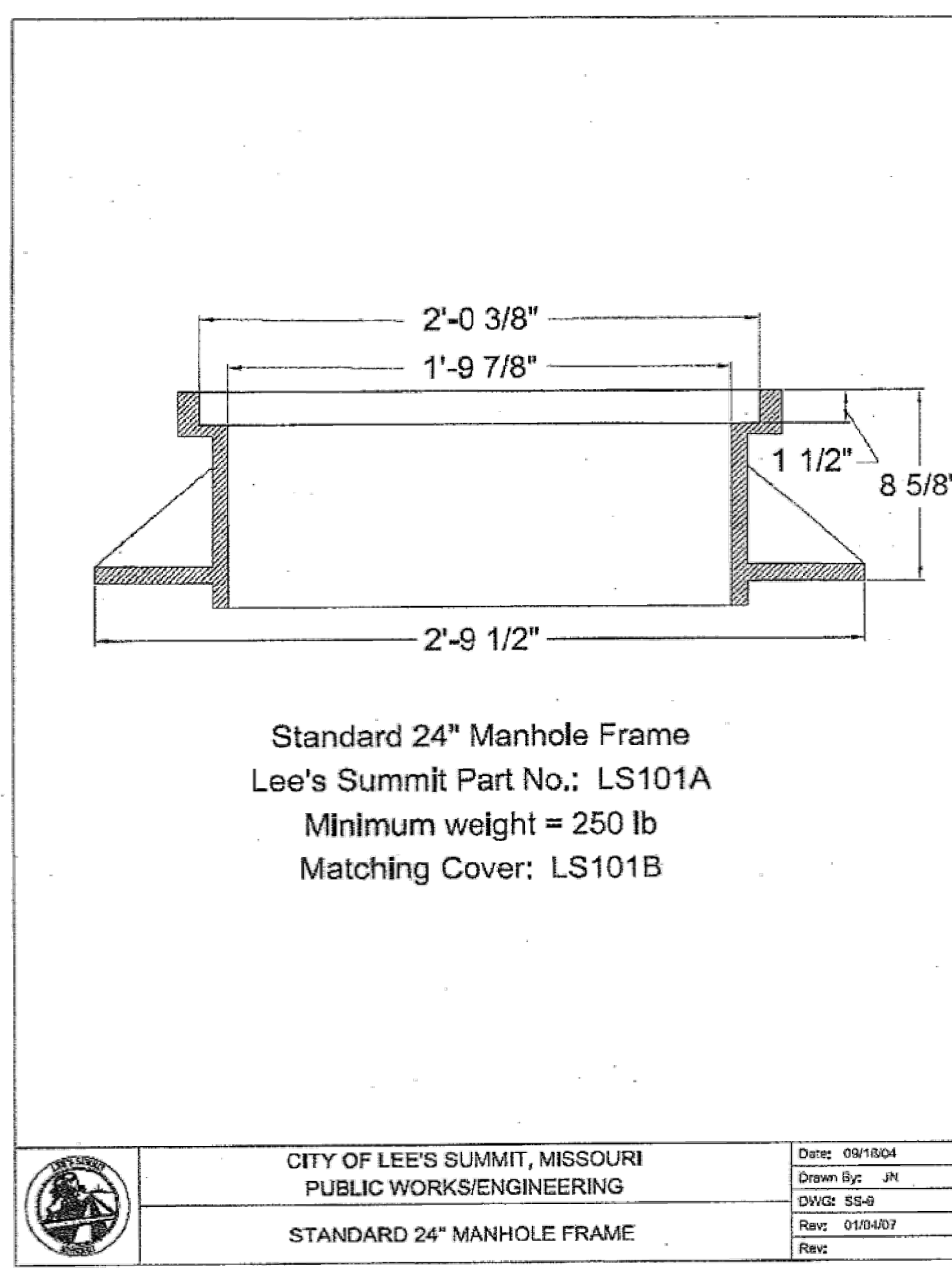
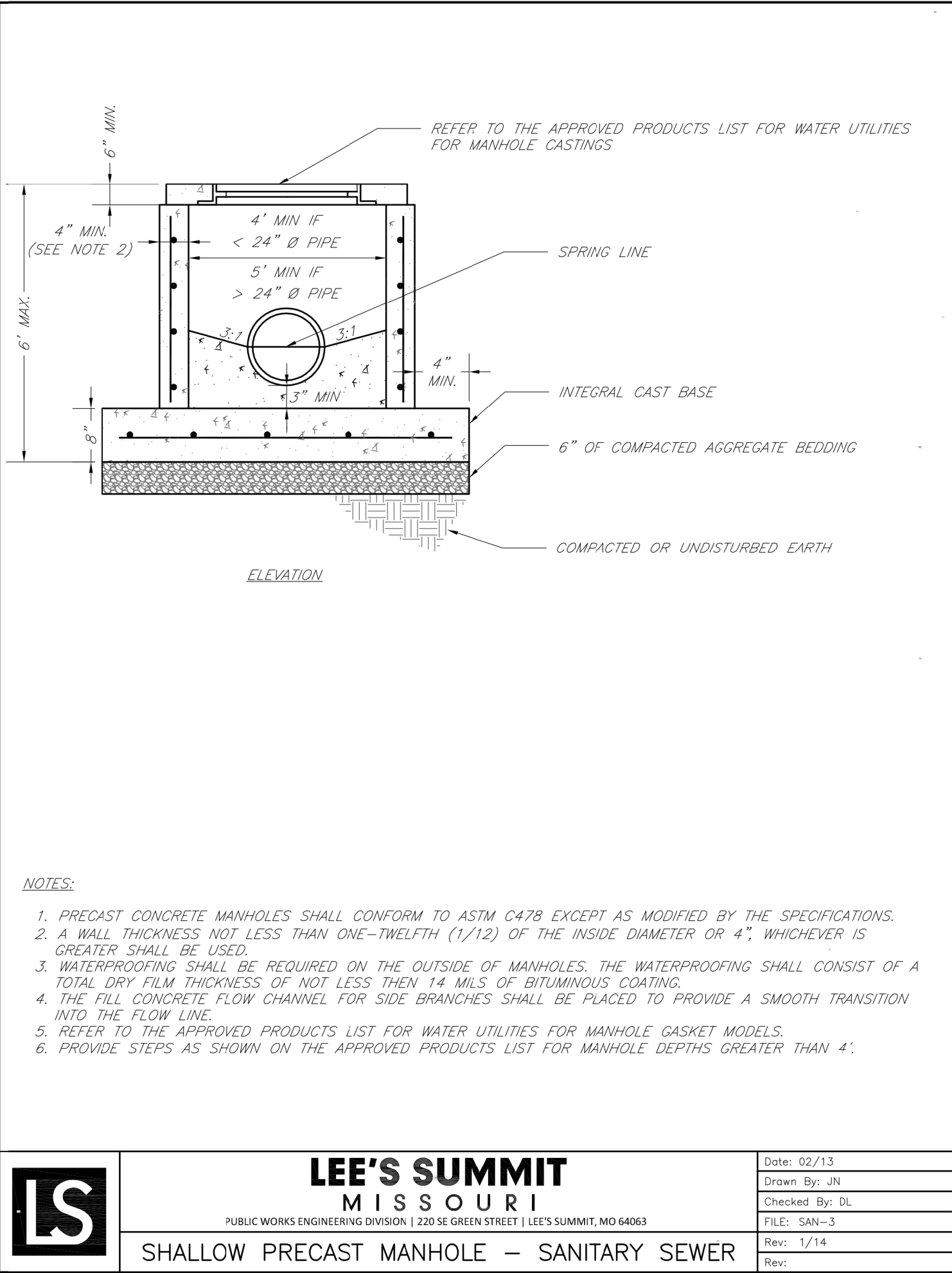
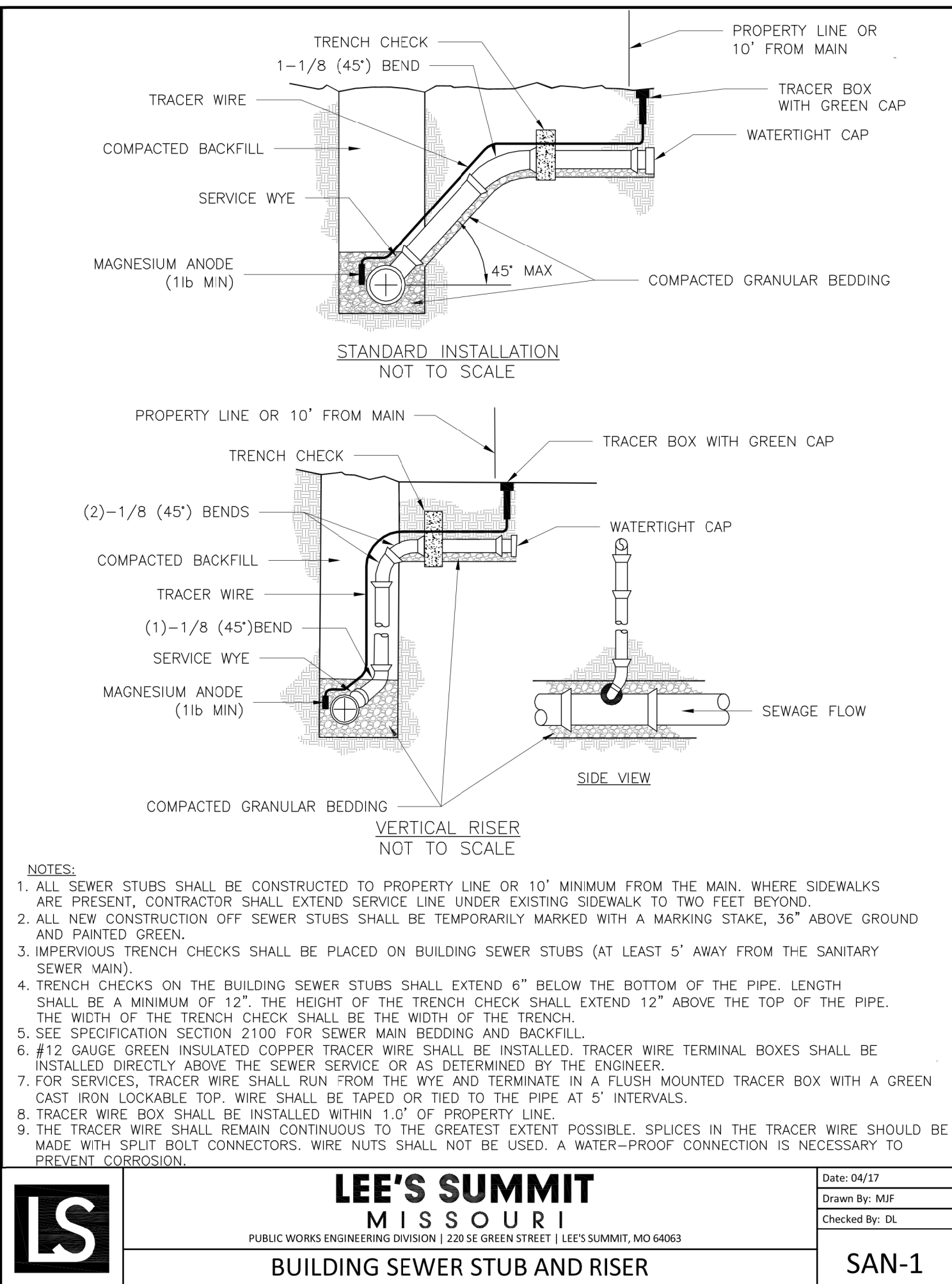
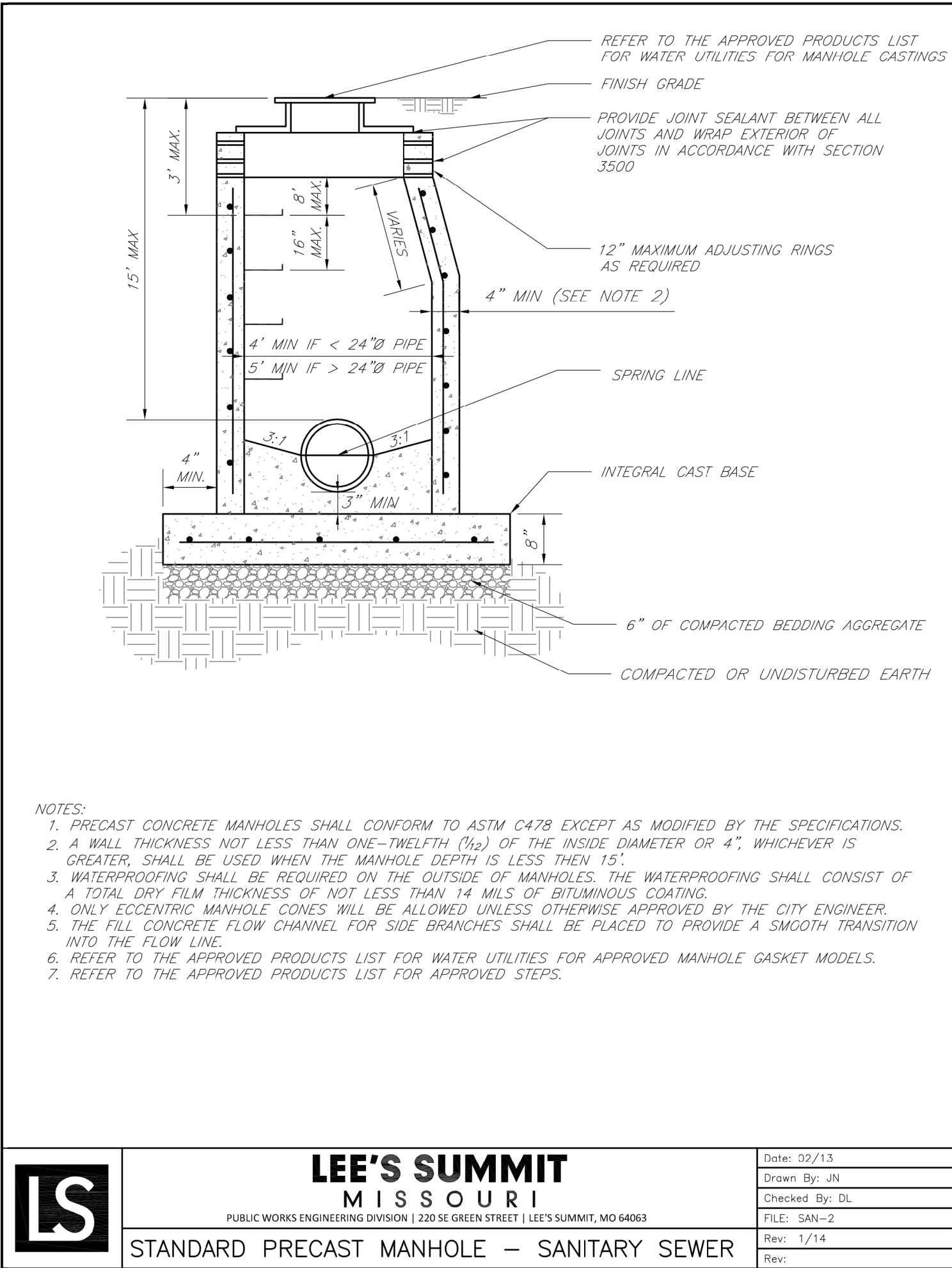
SHEET NUMBER  
**C102**  
3 OF 5

S10, T47N, R22W  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



SUMMIT HOMES KC HIGHLAND MEADOWS - 5TH PLAT	SANITARY SEWER C AND D PLAN & PROFILE	S10, T47N, R32W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
		
SHEET NUMBER <div style="font-size: 2em; font-weight: bold; display: inline-block;">C103</div> <div style="display: flex; align-items: center; justify-content: center;"> <span style="font-size: 1.5em; font-weight: bold; margin-right: 5px;">4</span> <span style="font-size: 1.5em; font-weight: bold; margin: 0 10px;">OF</span> <span style="font-size: 1.5em; font-weight: bold;">5</span> </div>		





Accepted  
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

AS-BUILT

The information provided on this drawing conforms to the information provided on the drawing. It is not intended for construction. Any use of this drawing for construction purposes is at the user's risk. The user assumes all liability for any errors or omissions. The user agrees to hold the engineer harmless from and against all claims, damages, costs, and expenses, including reasonable attorneys' fees, arising out of or from the use of this drawing for construction purposes. The user agrees to indemnify and hold the engineer harmless from and against all claims, damages, costs, and expenses, including reasonable attorneys' fees, arising out of or from the use of this drawing for construction purposes. The user agrees to hold the engineer harmless from and against all claims, damages, costs, and expenses, including reasonable attorneys' fees, arising out of or from the use of this drawing for construction purposes. The user agrees to indemnify and hold the engineer harmless from and against all claims, damages, costs, and expenses, including reasonable attorneys' fees, arising out of or from the use of this drawing for construction purposes.

Certified by: G. G. G. G.  
Title: Project Engineer  
Firm: Anderson Engineering Inc.

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS FOR NEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

04/15/2021

**BEDDING**

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS

**INITIAL BACKFILL**

- UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS

- UNDER OPEN AREAS

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS

**FINAL BACKFILL**

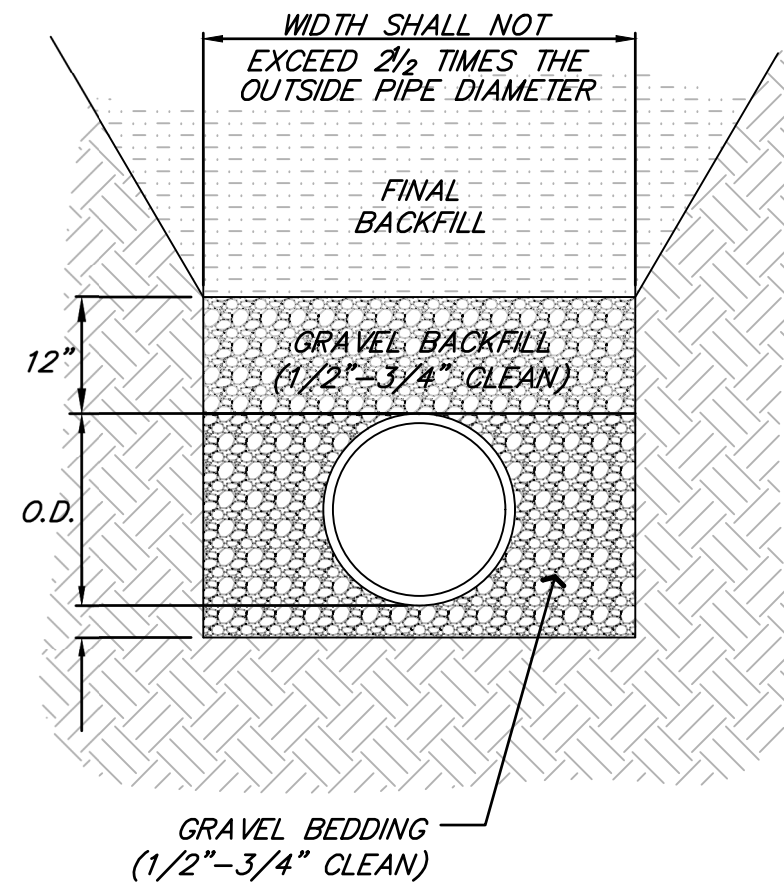
- UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS

ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698

- UNDER OPEN AREAS

ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698

BEDDING DEPTH BELOW PIPE		
PIPE DIAMETER	IN SOIL	IN ROCK
24" AND LESS	4"	6"
27" THRU 60"	4"	9"



PIPE BEDDING DETAIL  
NOT TO SCALE

**ANDERSON ENGINEERING**  
EMPLOYEE OWNED

**AE**

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DRAWING INFO.		REVISIONS	
NO.	DESCRIPTION	BY	DATE
1.	REVISED PER CITY COMMENTS	GC	1/15/21
2.	REVISED PER CITY COMMENTS	GC	2/26/21
4.	AS-BUILT DRAWINGS	GC	3/24/22
FOR REVIEW		DATE:	12/2/2020
JOB NUMBER:		ISSUED FOR:	20KCI0057
MO COA NO.		000062	

SUMMIT HOMES KC  
HIGHLAND MEADOWS - 5TH PLAT

**SANITARY SEWER DETAILS**

S10, T47N, R32W  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

**SHEET NUMBER**  
**C401**  
5 OF 5

STATE OF MISSOURI  
ZACHARY  
Professional Engineer  
NUMBER  
PE-2012009232  
5/10/21