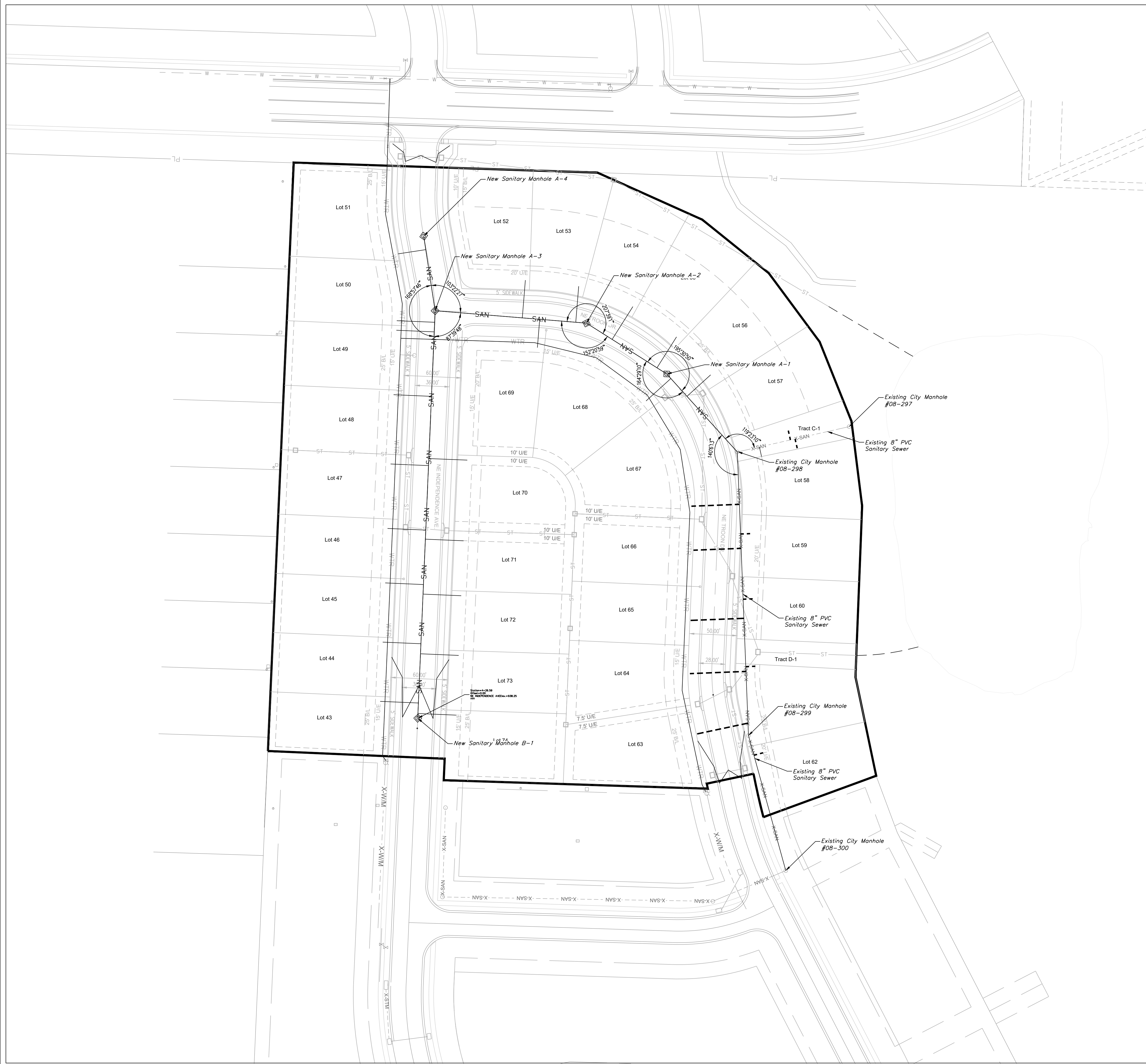


LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

C, 400



North

GRAPHIC SCALE

0 25 50 100

SANITARY PLAN & PROFILE

SCALE: 1" = 50'

GENERAL NOTE:

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ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration

Missouri
Engineering 2005002186-D
Surveying 2005008319-D

Kansas
Engineering E-1685
Surveying LS-218

Oklahoma
Engineering 6254

Nebraska
Engineering CA2821

Sanitary Sewer General Layout

Construction Plans for:

THE VILLAS OF CHAPEL RIDGE-2ND PLAT

LOTS 43-74 and Tracts C-1 & D-1

Lee's Summit, Jackson County, Missouri

Project:

VILLAS OF CHAPEL RIDGE LS2MO

Issue Date:

June 24, 2022

STATE OF MISSOURI

MATTHEW J. SCHLICHT

REGISTERED PROFESSIONAL ENGINEER

NUMBER 65001

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

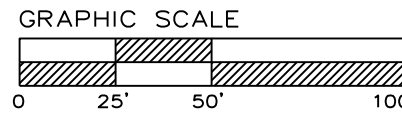
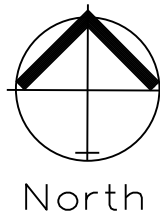
REVISIONS

REV. 8/12/2022

REV. 10/3/2022

C. 401

GENERAL NOTE:
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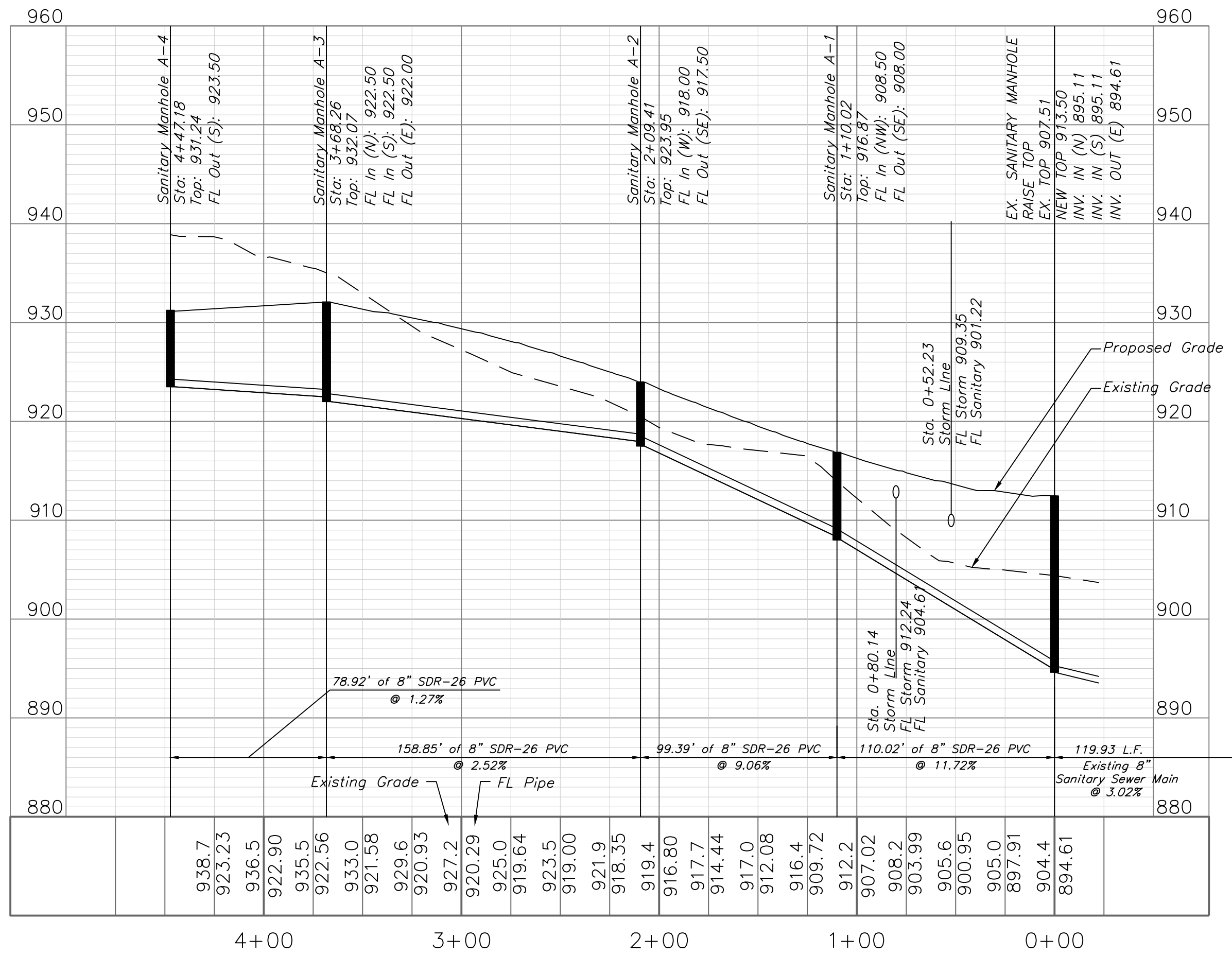


SANITARY PLAN & PROFILE

SCALE: 1" = 50'



SANITARY LINE A

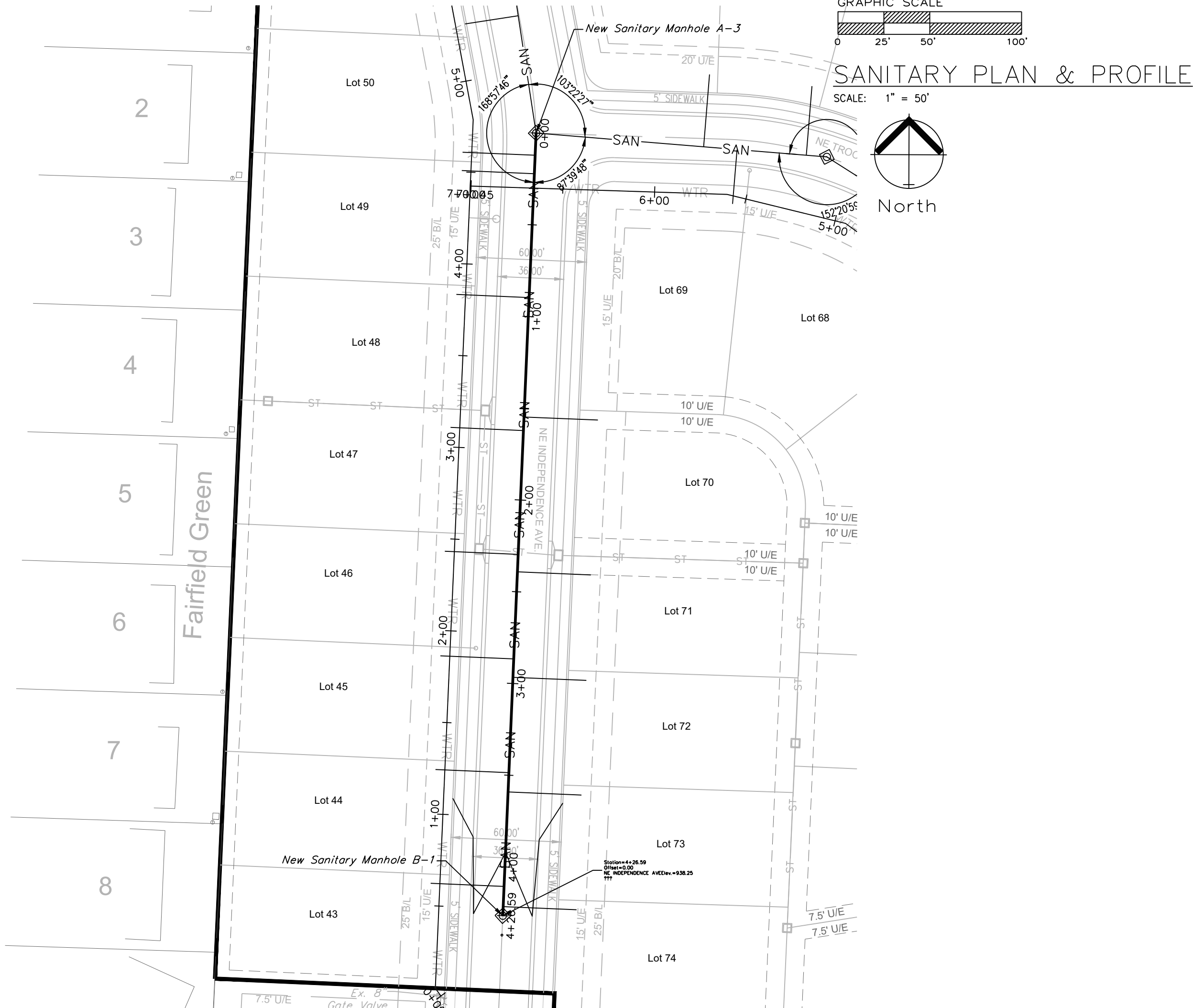


Sewer Stub Table - Line A					
Lot	Station	Main FL	Length	Slope (%)	MSFE
51	4+32.87	923.32	29.29	2	927.32
52	2+76.75	919.70	39.56	2	923.70
53	2+20.63	918.28	37.76	2	922.28
54	1+67.62	913.71	40.59	2	917.71
55	1+22.09	909.59	38.24	2	913.59
56	0+78.5	904.66	33.41	2	908.66
57	0+20.2	897.56	18.78	2	901.56
69	2+58.43	919.24	29.7	2	923.24
68	1+03.62	907.72	34.98	2	911.72

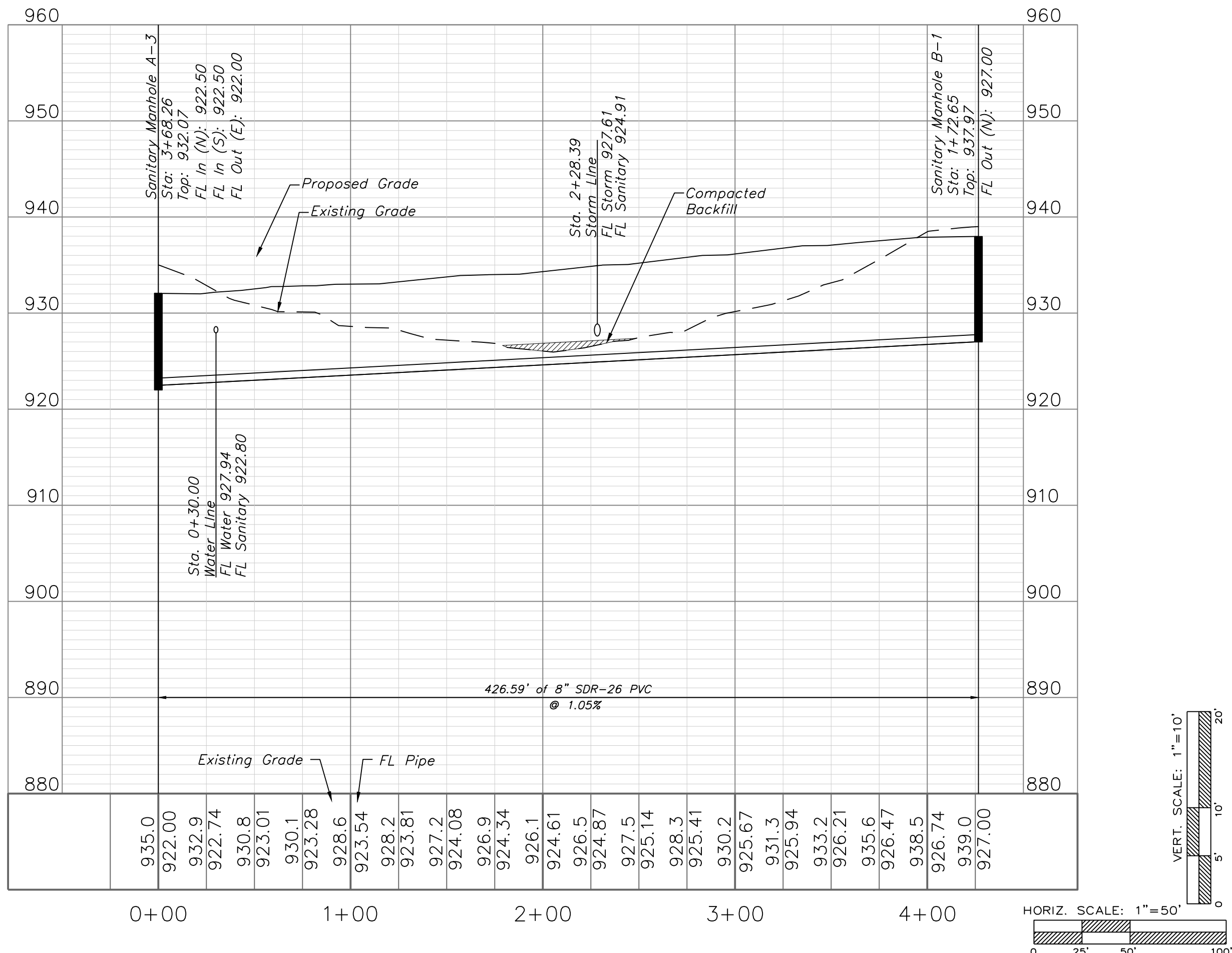
Sewer Stub Table - Line B					
Lot	Station	Main FL	Length	Slope (%)	MSFE
50	0+12.07	922.14	39.6	2	926.14
49	0+22.15	922.26	39.62	2	926.26
48	0+89.65	923.05	40	2	927.05
47	1+57.51	923.84	40	2	927.84
46	2+29.65	924.67	40	2	928.67
45	2+86.65	925.35	40	2	929.35
44	3+48.65	926.08	40	2	930.08
43	4+10.65	926.8	40	2	930.80
70	1+54.75	923.81	40.05	2	927.81
71	2+34.10	924.74	40	2	928.74
72	2+96.59	925.46	40	2	929.46
73	3+61.05	926.22	40	2	930.22
74	4+21.59	926.93	40	2	930.93

Note:

Compacted Fill shall be placed to a minimum 18" above the top of the pipe prior to installation.



SANITARY LINE B



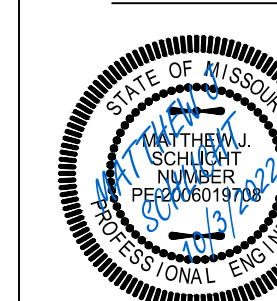
ENGINEERING SOLUTIONS
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Engineering 5254
Nebraska
Engineering CA2821

THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Sanitary Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



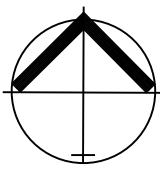
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 8/12/2022
REV. 10/3/2022

C.402

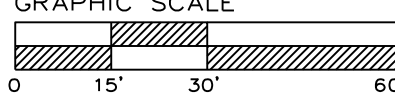
Sewer Stub Table- Existing Line						
Lot	Station	Main FL	Length	Slope (%)	MSFE	
58	6+23.45	890.63	10.00	2	892.5	
57	6+28.45	890.95	10.00	2	892.982	
67	0+54.80	895.33	50.22	2	898	
59	0+85.87	895.52	10.00	2	897.39	
66	1+00.87	895.61	49.89	2	898.28	
60	1+54.11	895.92	10.00	2	897.79	
65	1+74.11	896.04	55.72	2	898.82	
61	2+24.68	896.35	10.00	2	898.22	
64	2+29.68	896.38	58.67	2	899.22	
63	2+83.81	896.7	54.38	2	899.46	
62	3+18.21	897.13	10.00	2	899	





North

GRAPHIC SCALE



0 15' 30' 60'

EXISTING SANITARY PLAN

SCALE: 1" = 30'

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ENGINEERING

ENGINEERING & SURVEYING

SOLUTIONS

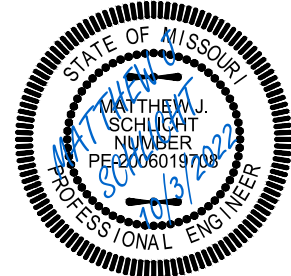
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
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Professional Registration
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Surveying 2005008319-D
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Surveying LS-218
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

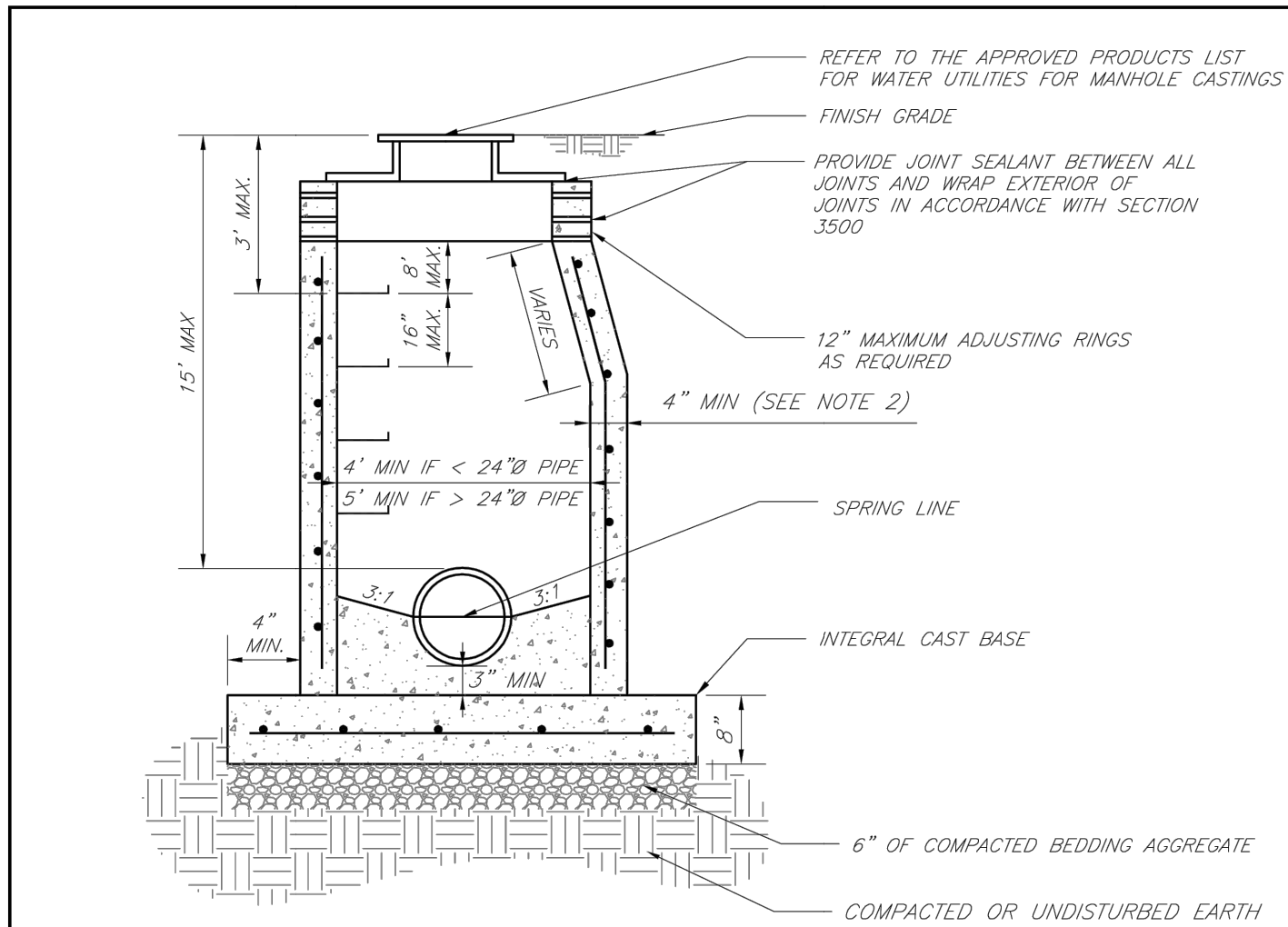
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Existing Sanitary Sewer Plan
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 8/12/2022	
REV. 10/3/2022	



NOTES:

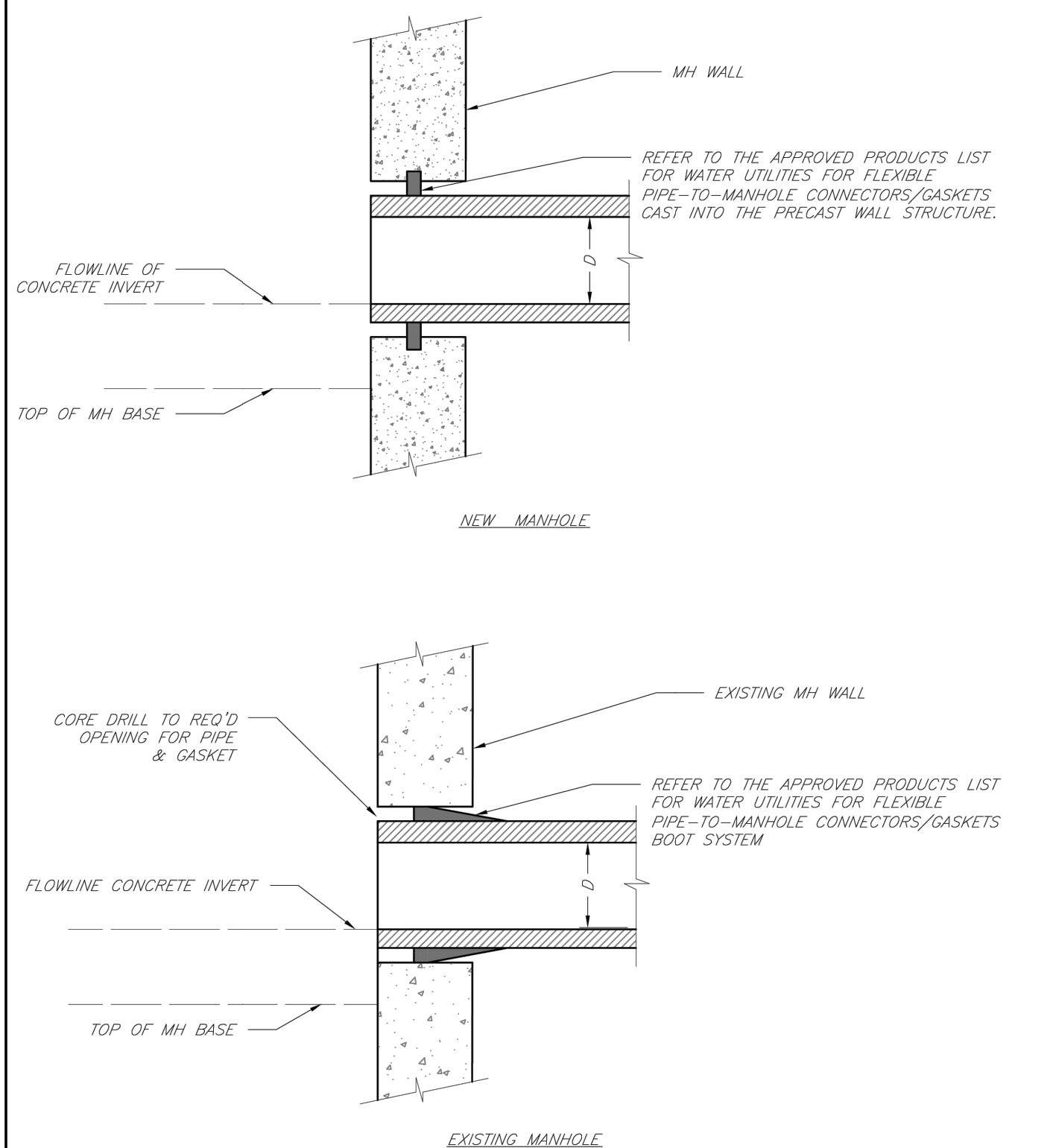
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THAN 15'.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

LS

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

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: SAN-2
 Rev: 1/14
 Rev:

STANDARD PRECAST MANHOLE – SANITARY SEWER

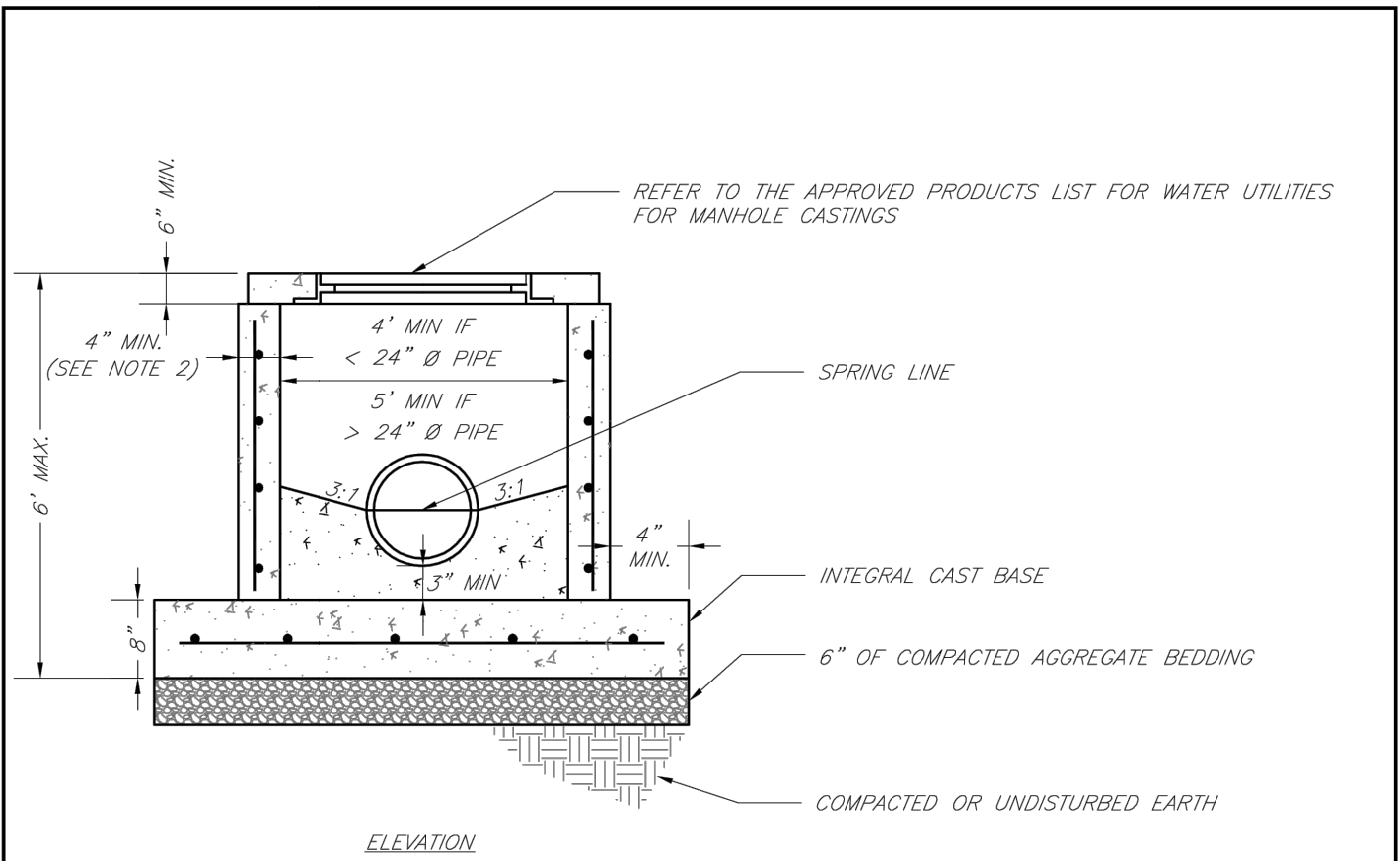


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MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: SAN-5
 Rev: 1/14
 Rev:

MANHOLE WALL CONNECTIONS



NOTES:

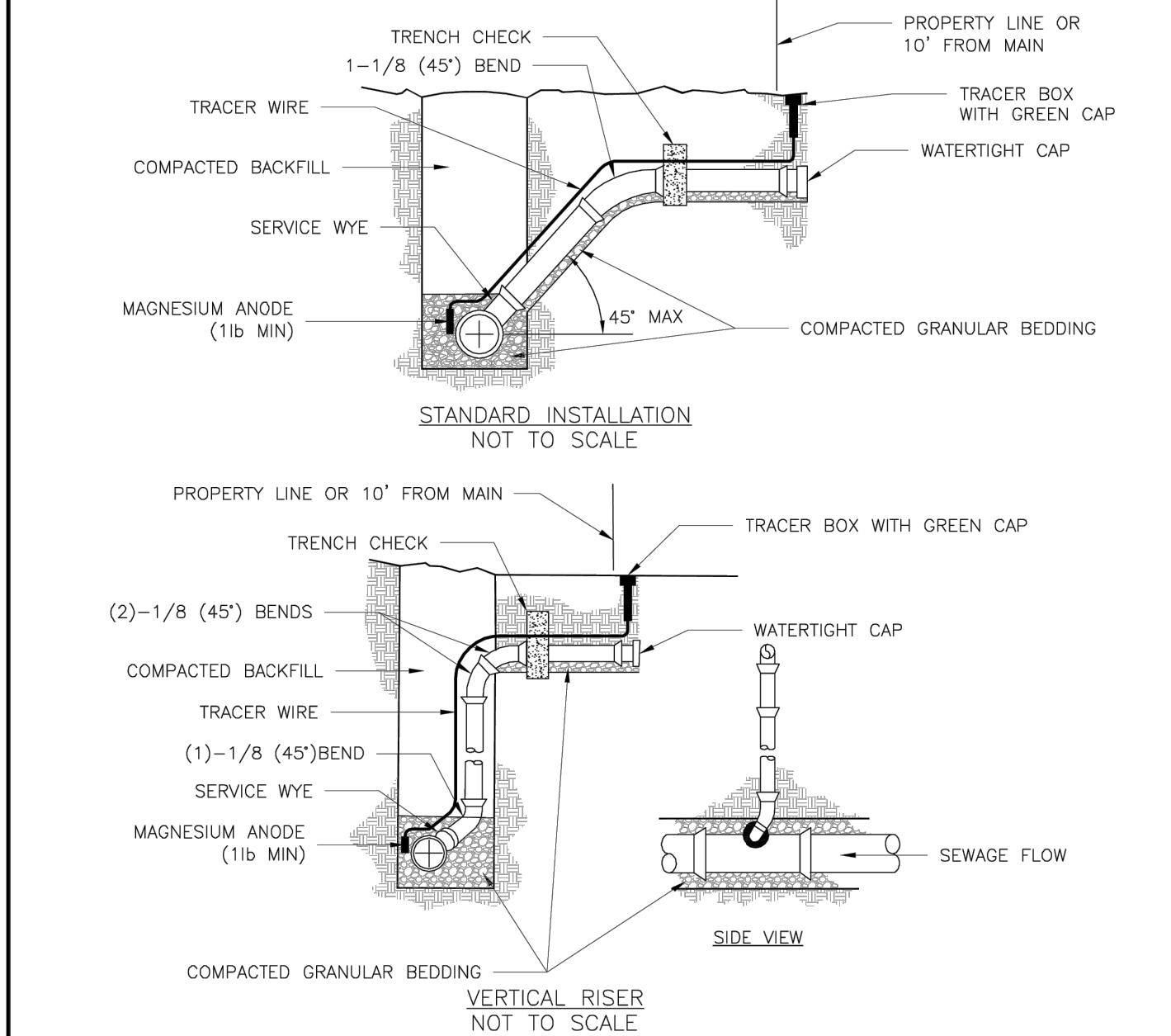
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
5. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE GASKET MODELS.
6. PROVIDE STEPS AS SHOWN ON THE APPROVED PRODUCTS LIST FOR MANHOLE DEPTHS GREATER THAN 4'.

LS

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

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: SAN-3
 Rev: 1/14
 Rev:

SHALLOW PRECAST MANHOLE – SANITARY SEWER



NOTES:

1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

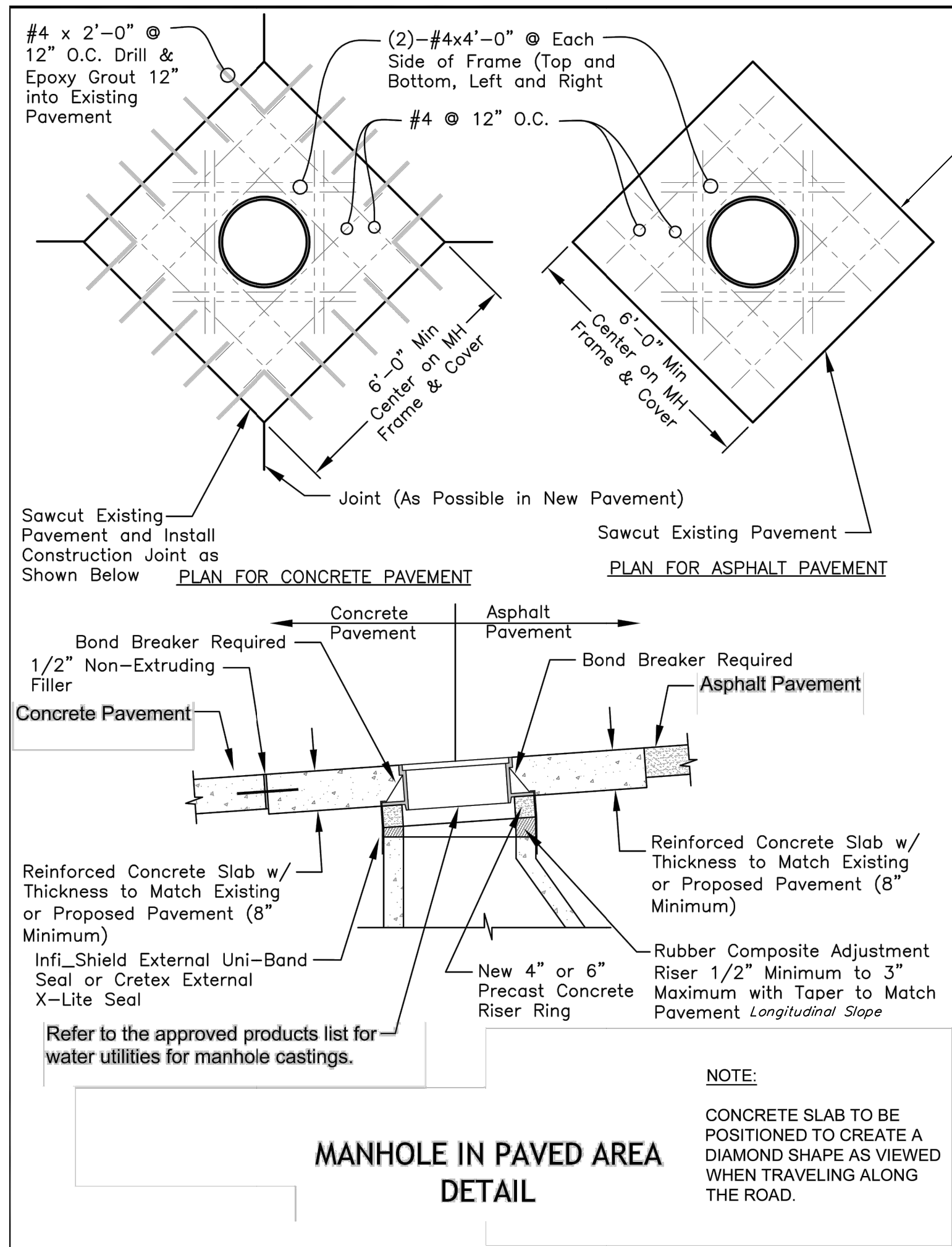
LS

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

Date: 04/27
 Drawn By: MIF
 Checked By: DL
 Rev: 1/14
 Rev:

BUILDING SEWER STUB AND RISER

SAN-1



GENERAL NOTE:

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ENGINEERING
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SOLUTIONS

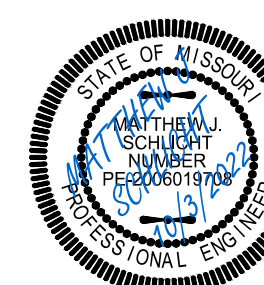
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Professional Registration
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 Surveying 2005008319-D
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 Engineering E-1695
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
 LOTS 43-74 and Tracts C-1 & D-1
 Lee's Summit, Jackson County, Missouri

Project:
 VILLAS OF CHAPEL
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 Issue Date:
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Sanitary Details
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 LOTS 43-74 and Tracts C-1 & D-1
 Lee's Summit, Jackson County, Missouri



Matthew J. Schlacht
 MO PE 0000019708
 KS PE 19071
 OK PE 25226
 NE PE E-14335

REVISIONS

REV.	DATE	DESCRIPTION
1	8/12/2022	
2	10/3/2022	