

THE VILLAS OF CHAPEL RIDGE-2ND PLAT

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

STREET AND STORM CONSTRUCTION PLANS

Section 8, Township 48 North, Range 31 West

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-1 AND CG-2 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

RESIDENTIAL LOCAL STREET SEE BELOW FOR TYPICAL SECTION.

OPTION 1) 4" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

OPTION 2) 4" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 ASPHALT SURFACE OVER 10" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.

RESIDENTIAL COLLECTOR STREET FOR SW ARBORWALK BLVD SEE BELOW FOR TYPICAL SECTION.

OPTION 1) 5.5" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 or 6-01 ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 9" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

OPTION 2) 5.5" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 or 6-01 ASPHALT SURFACE OVER 12" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE CITY'S APPROVED PRODUCT LIST.

2 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEES SUMMIT DESIGN AND CONSTRUCTION MANUAL.

3 ~ JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING NO. STM-3. FIELD INLETS SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING STM-2. TOEWALLS SHALL BE PER CITY OF LEES SUMMIT DRAWING NO. STM-5. JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STM-3. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEES SUMMIT.

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.

4 ~ THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

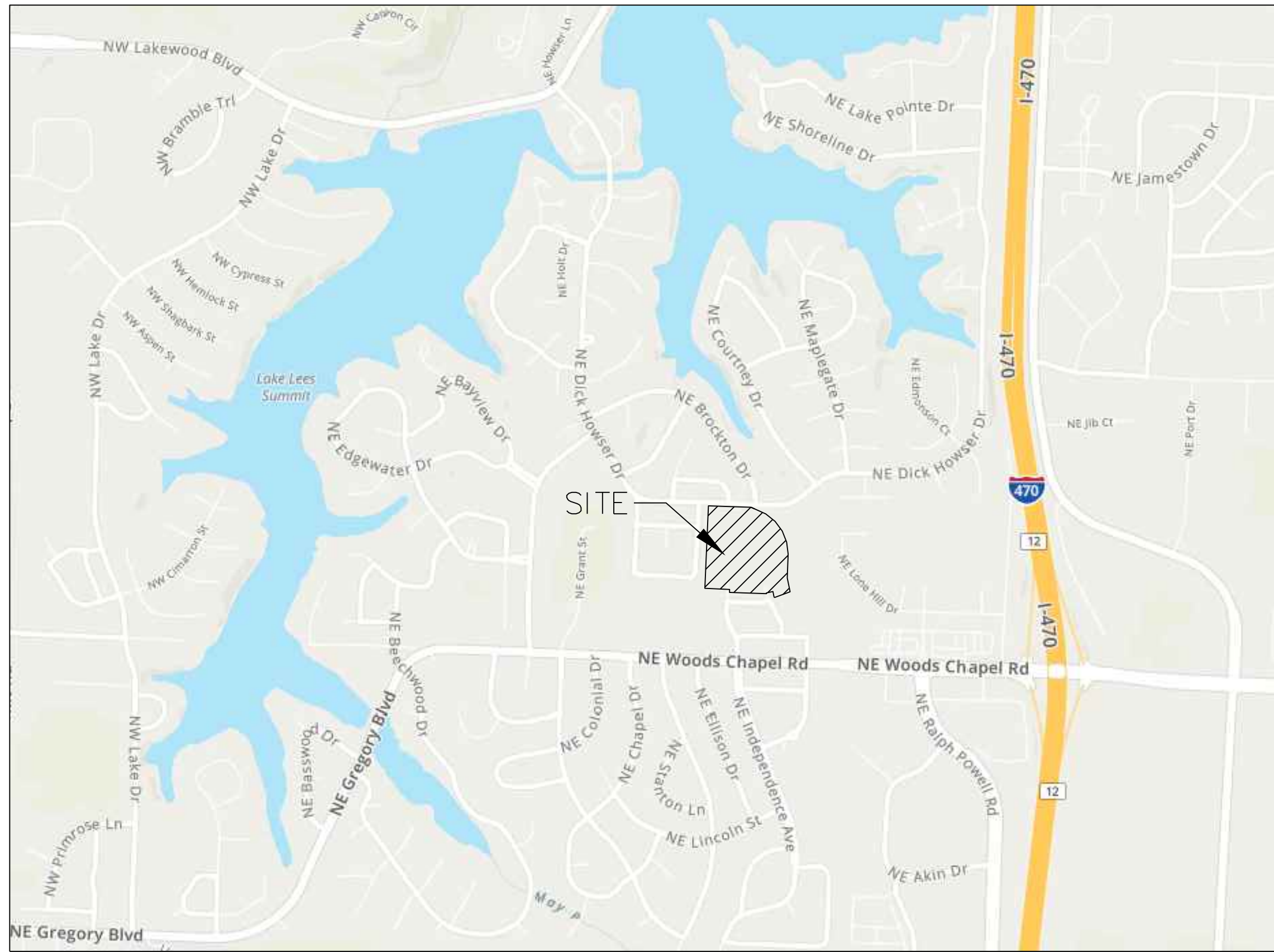
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.

6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

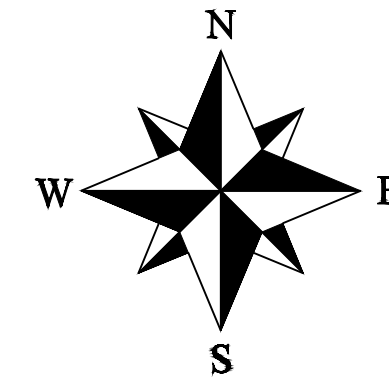
UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

EVERGY ~ 298-1198
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483



SITE LOCATION MAP



LEGEND:
B/L - BUILDING SET-BACK
C/A - COMMON AREA
D/E - DRAINAGE EASEMENT
FND. - FOUND
L/E - LANDSCAPE EASEMENT
L.N.A. - LIMITS OF NO ACCESS
R/W - RIGHT OF WAY
SAN - SANITARY SEWER LINE
S/W - SIDEWALK
U/E - UTILITY EASEMENT
W - WATER LINE
ST - STORM SEWER LINE

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	4,246.00
CURBING	FT	2,683.00
5' SIDEWALK	S.F.	9,510.00
MoDOT Type 5 Base	S.Y.	5,108.00
GEOGRID	S.Y.	5,108.00
ADA SIDEWALK RAMP	UNIT	4
CLEARING, GRADING & GRUBBING	LS	1
SILT FENCE	FT	8,400.00
INLET PROTECTION	UNIT	30.00
SEEDING / MULCHING/ FERTILIZING	AC	8.27
CONST. ENTRANCE	UNIT	2.00
STORM		
30" HDPE	FT	186.79
24" HDPE	FT	222.99
18" HDPE	FT	183.71
15" HDPE	FT	1,164.11
18" RCP	FT	43.26
15" RCP	FT	43.00
4' x 4' STORM FIELD INLET	EA	6.00
5' x 4' STORM CURB INLET	EA	13.00

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

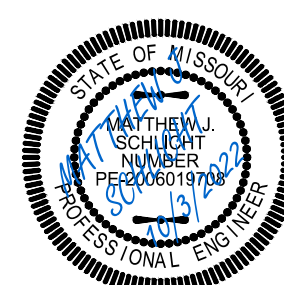


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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

Street & Storm Cover Sheet
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



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KS PE 19071
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NE PE E-14335

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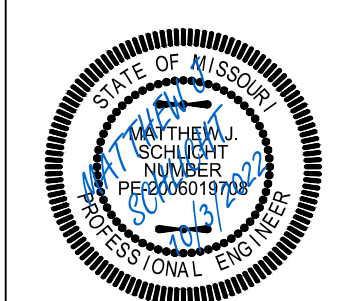
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Project: VILLAS OF CHAPEL
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Site Plan

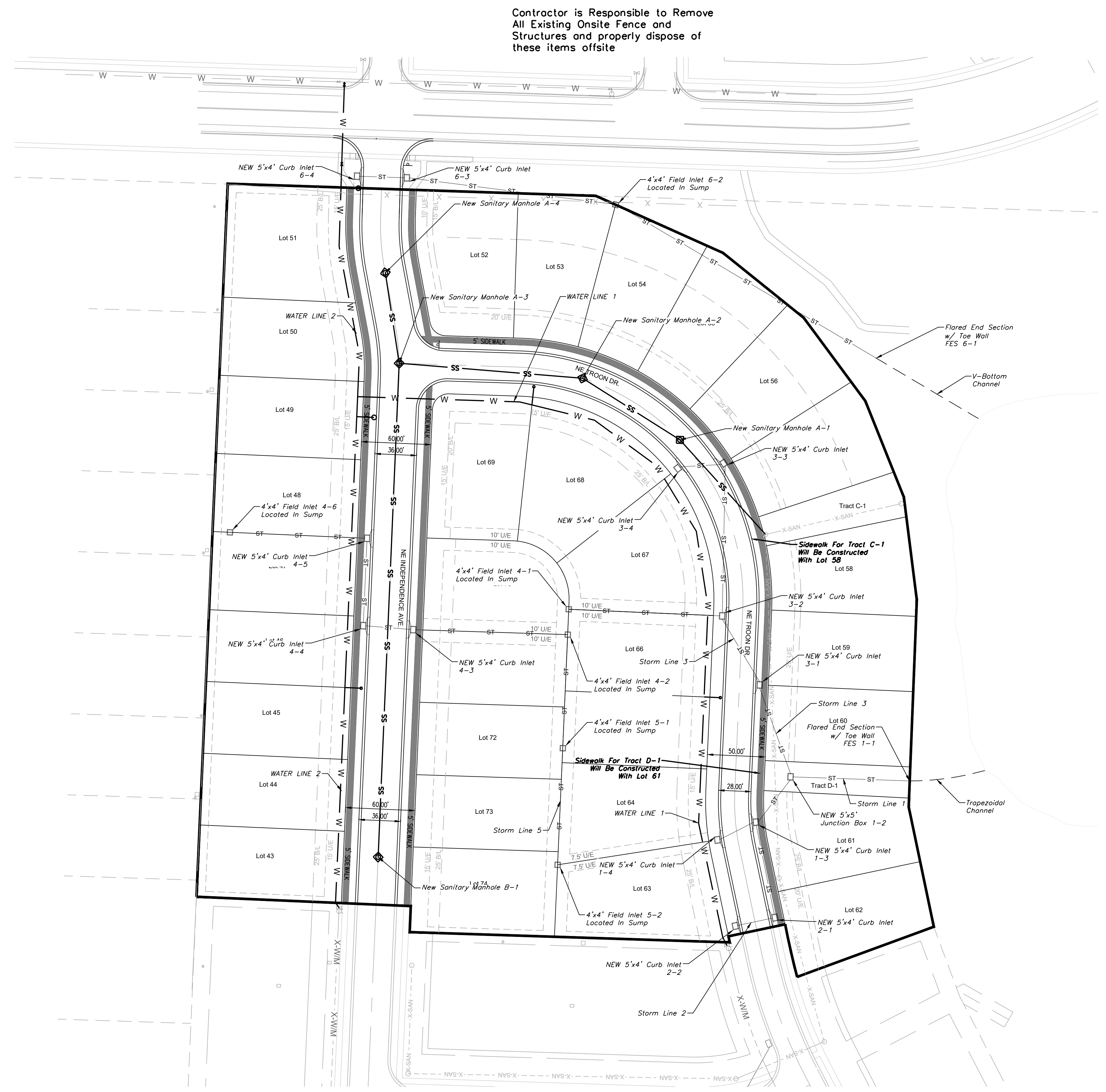
Construction Plans for:
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 LOTS 43-74 and Tracts C-1 & D-1
 Lee's Summit, Jackson County, Missouri

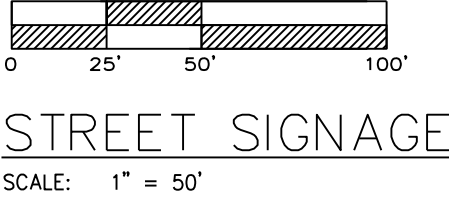
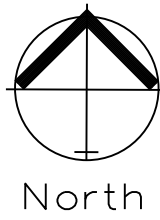


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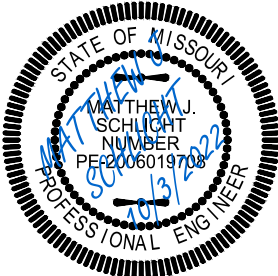


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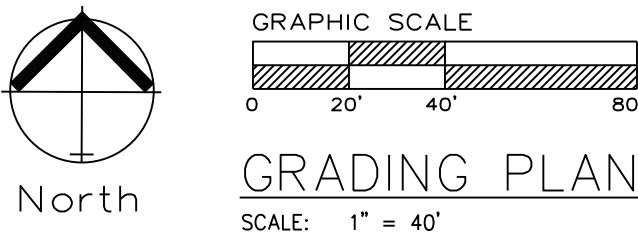
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Street Signage
Construction Plans for:
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LOTS 43-74 and Tracts C-1 & D-1
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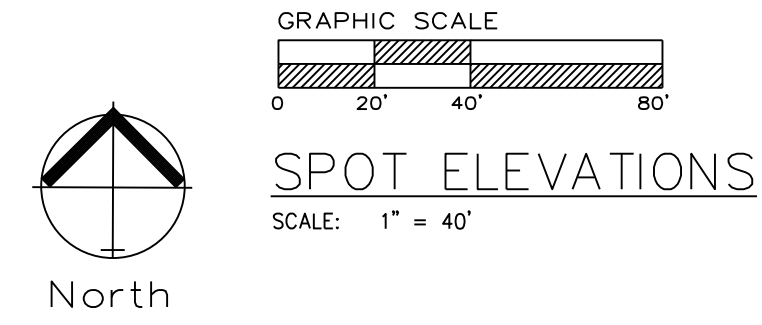
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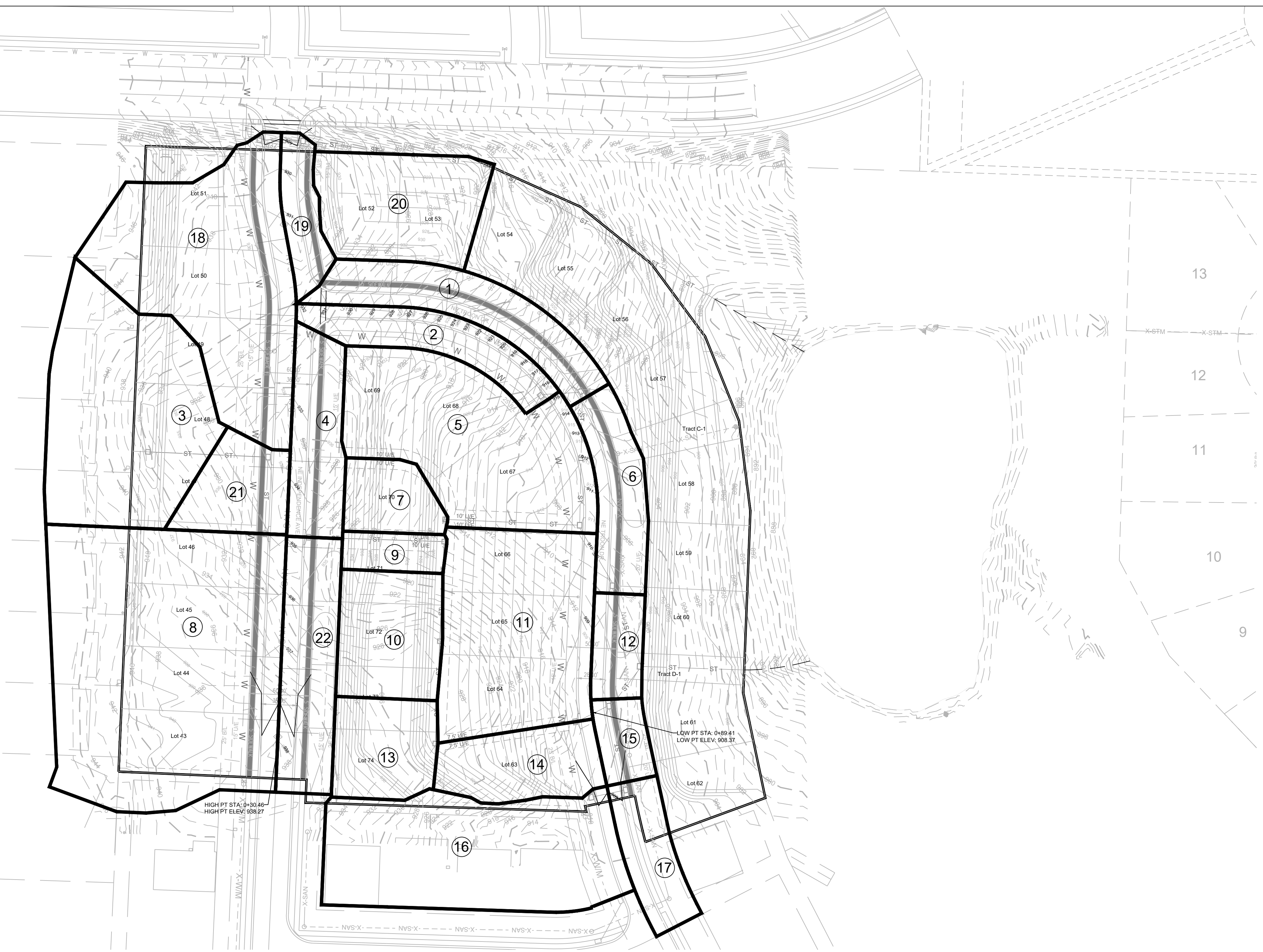


1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction activity
7. Contractor responsible for all density testing of roadway subgrade and granular base.

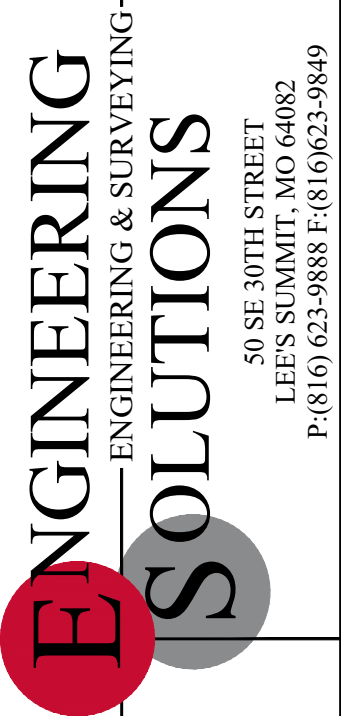
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Lot Number	Basement Type	MBOE
43	Full	942.00
44	Full	941.00
45	Full	940.00
46	Full	939.00
47	Full	939.00
48	Full	940.00
49	Full	941.00
50	Full	942.00
51	Full	N/A
52	Daylight	N/A
53	Walkout	N/A
54	Walkout	N/A
55	Walkout	N/A
56	Walkout	N/A
57	Walkout	N/A
58	Walkout	N/A
59	Walkout	N/A
60	Walkout	N/A
61	Walkout	N/A
62	Walkout	N/A
63	Full	913.00
64	Full	913.00
65	Full	913.00
66	Full	914.00
67	Full	920.00
68	Full	N/A
69	Walkout	N/A
70	Walkout	N/A
71	Walkout	N/A
72	Walkout	N/A
73	Walkout	N/A
74	Walkout	N/A



GRAPHIC SCALE
0 30' 60' 120'
DRAINAGE AREA MAP
SCALE: 1" = 60'



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Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
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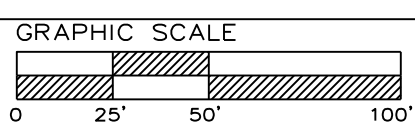
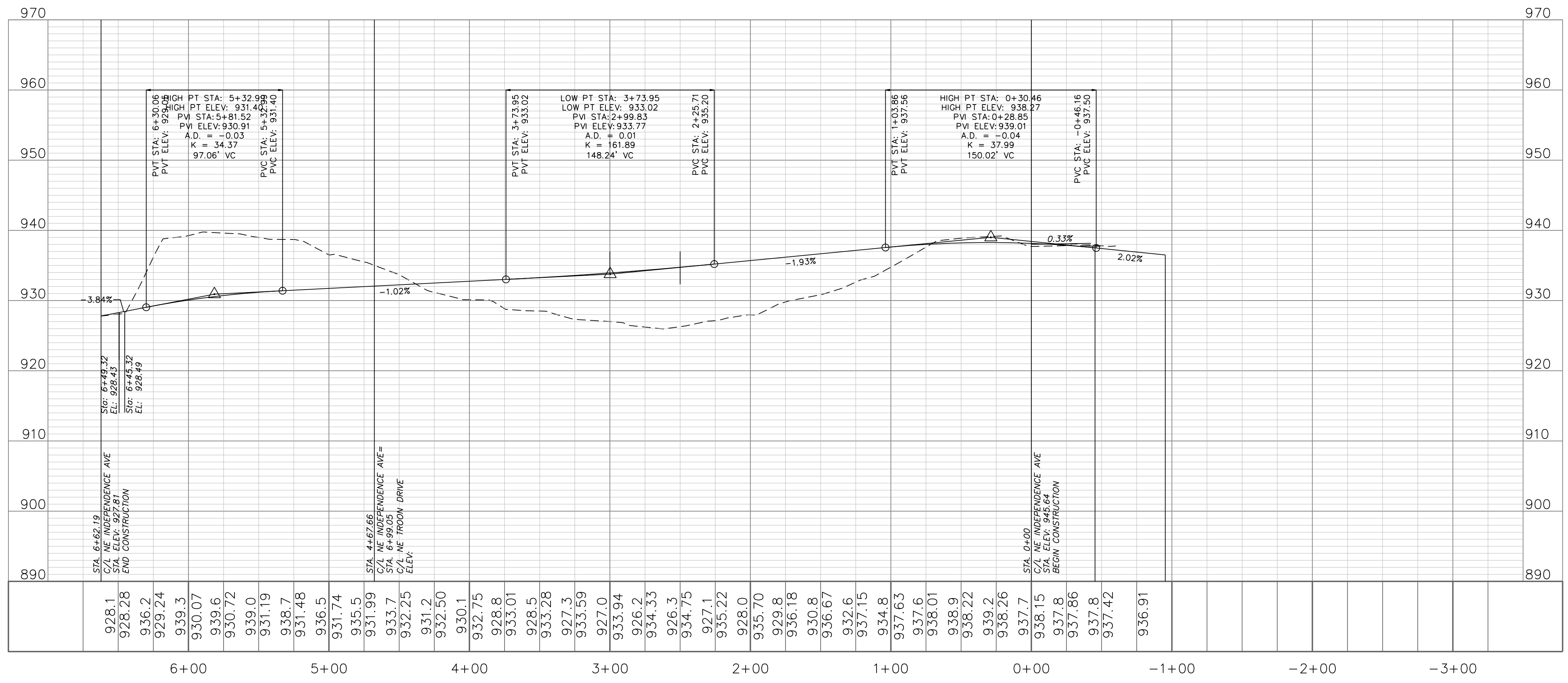
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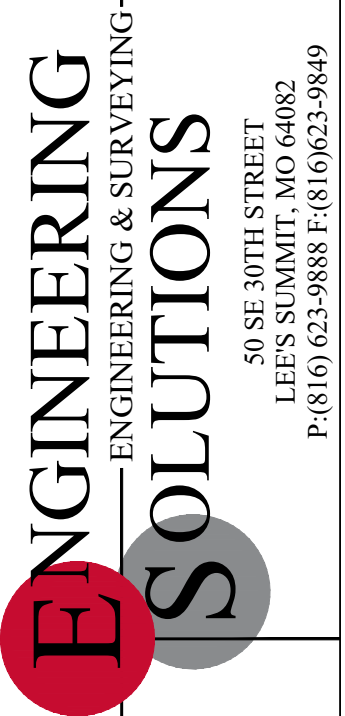
APWA STORM DRAINAGE "TC" COMPUTATIONS FOR: VILLAS OF CHAPEL RIDGE 2ND PLAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		yellow areas are self computing overwrite if necessary				Surface types: SURFACE CODES "C" Values				Asph/ConcBus/Com A B D G				Dirt 0.90 0.87 0.60 0.30				Grass/Park 0.90 0.66 0.51 0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



NE INDEPENDENCE AVE



STREET PLAN & PROFILE
SCALE: 1" = 50'



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Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL
RIDGE-LSMO
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Street Plan and Profile
Construction Plans for:
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LOTS 43-74 and Tracts C-1 & D-1
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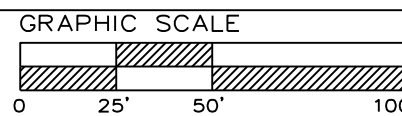
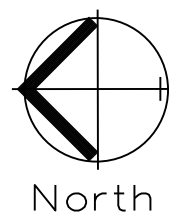
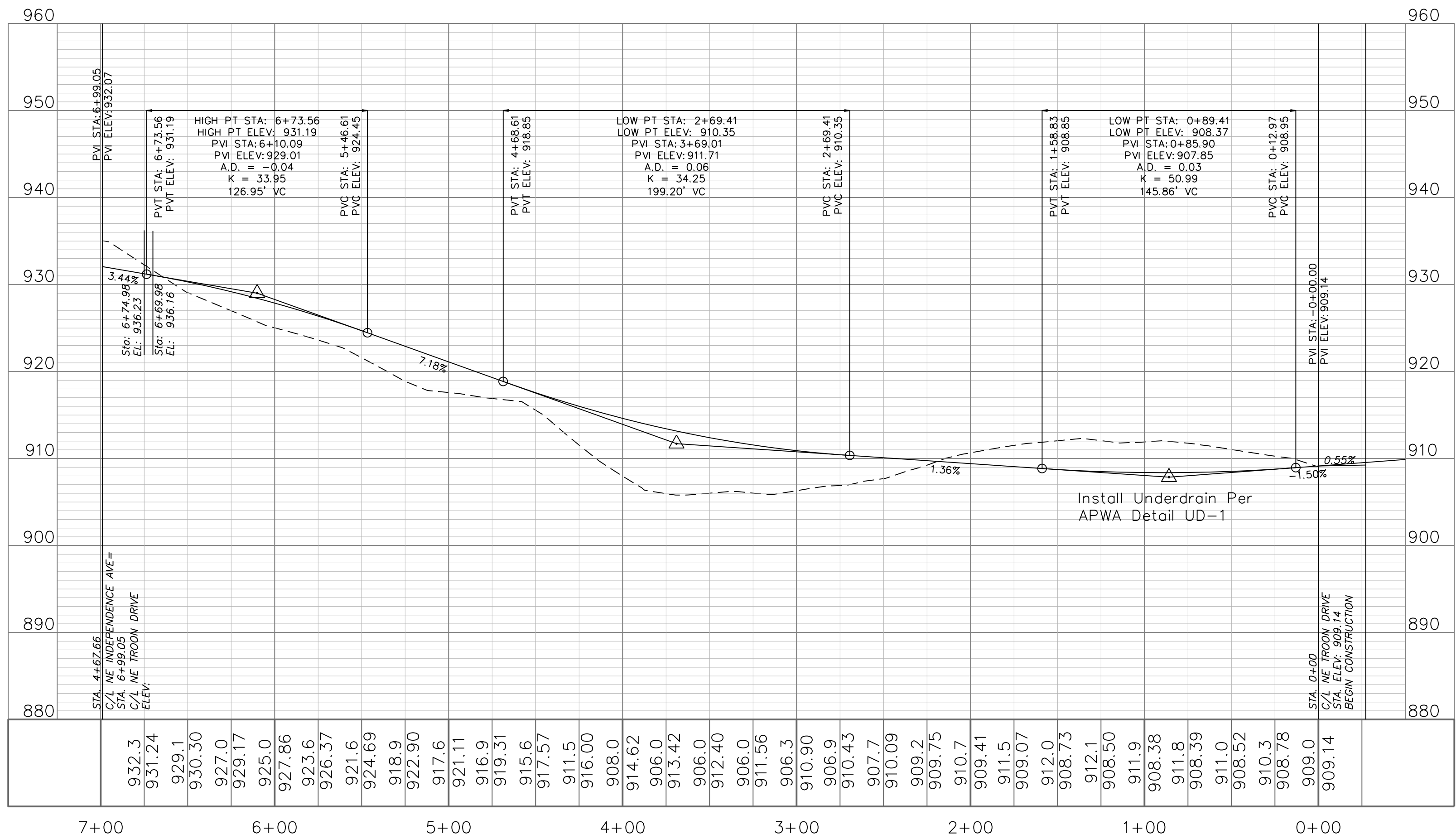


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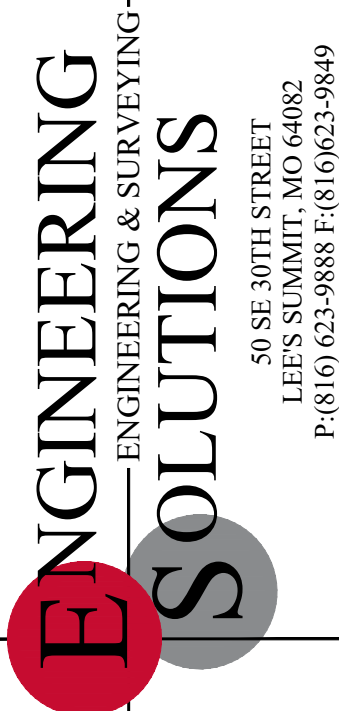
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NE TROON DRIVE



STREET PLAN & PROFILE
SCALE: 1" = 50'

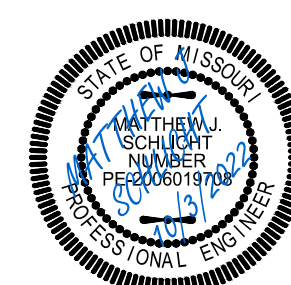


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Lee's Summit, Jackson County, Missouri

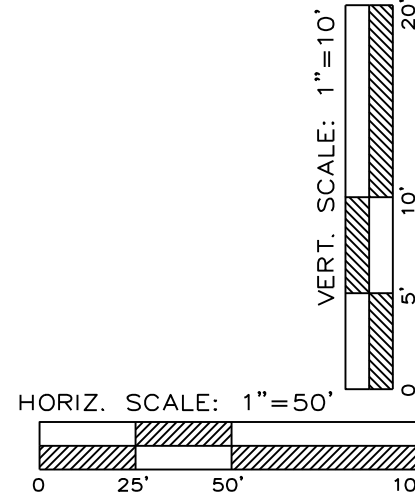
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RIDGE-LSMO
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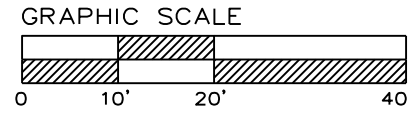
Street Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



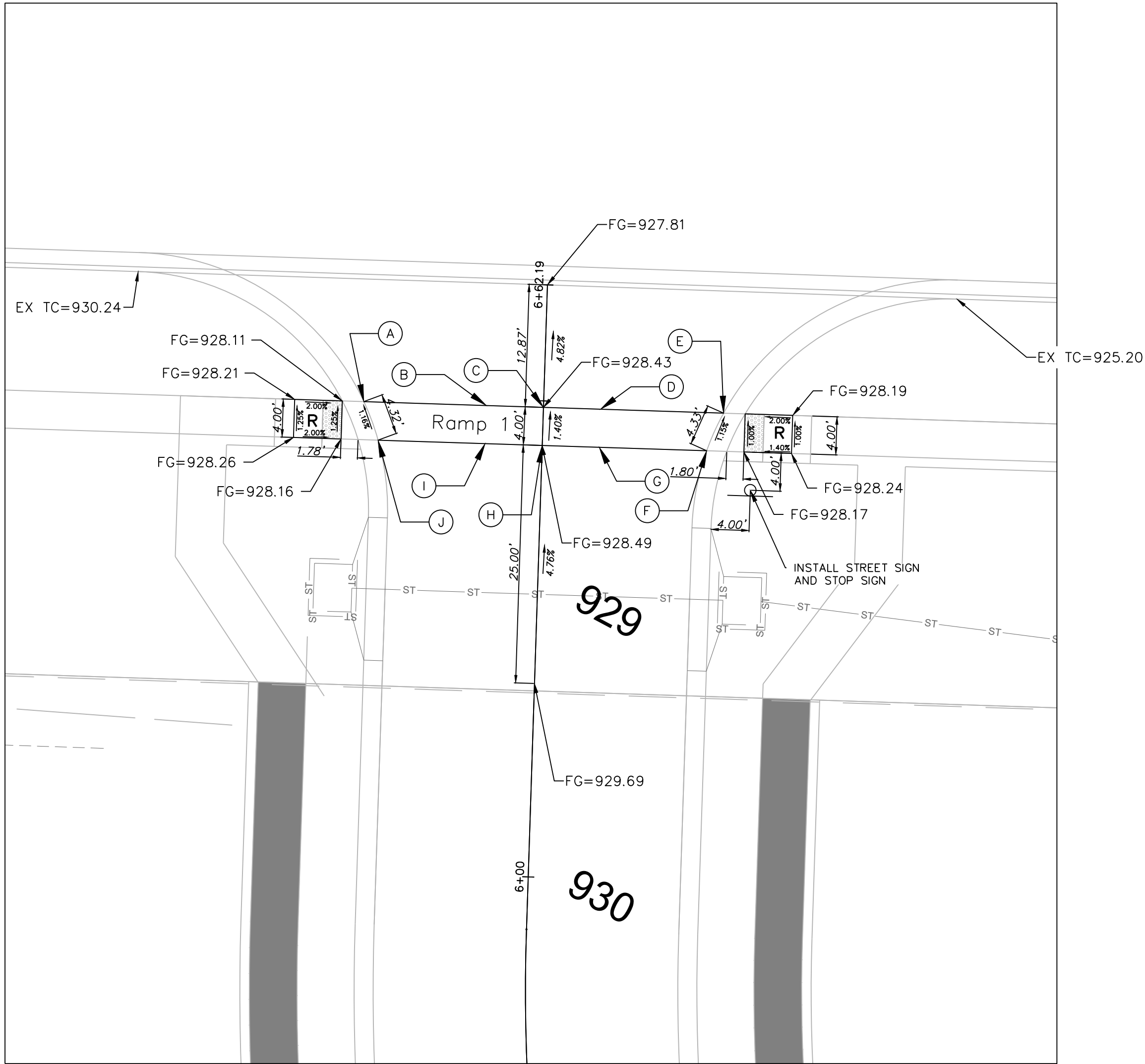
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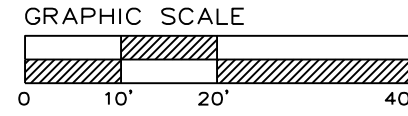
SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'



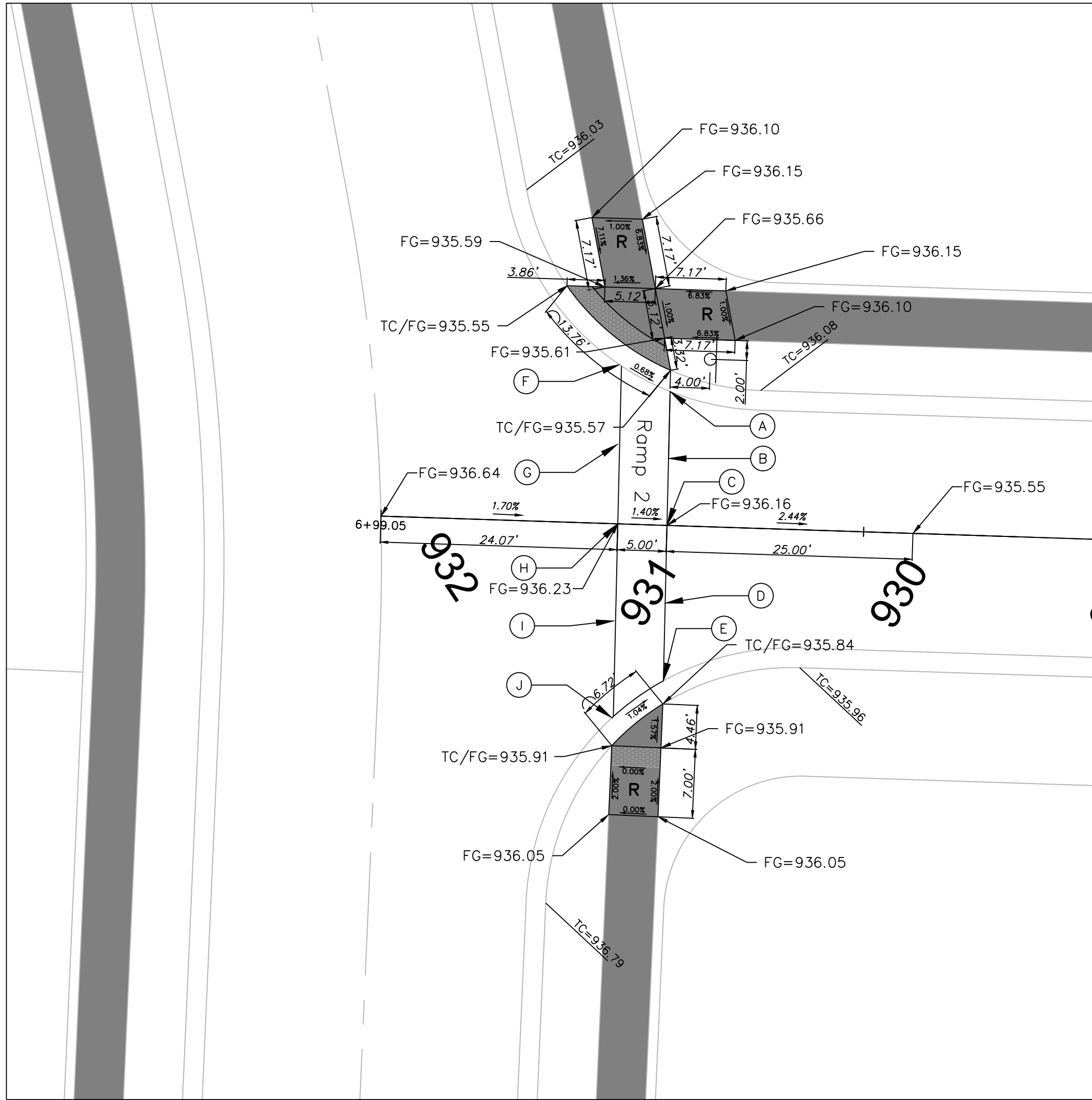
DETAIL 1

SPOT ELEVATION TABLE				
	Ramp 1	Ramp 2		
Spot	Elevation	Elevation		
A	928.11	935.57		
B	928.31	936.04		
C	928.43	936.16		
D	928.31	936.04		
E	928.09	935.84		
F	928.14	935.61		
G	928.38	936.11		
H	928.49	936.23		
I	928.38	936.11		
J	928.16	935.91		

NOTE:
ALL ADA ACCESSIBLE RAMPS TO BE CONSTRUCTED WITH STREET IMPROVEMENTS.



SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'



DETAIL 2

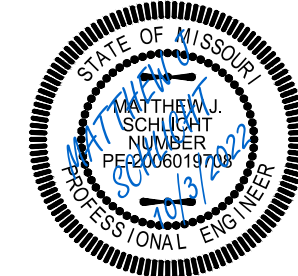
Sidewalk and
Intersection Plan

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

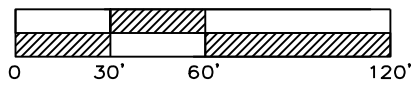
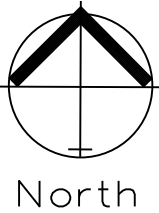
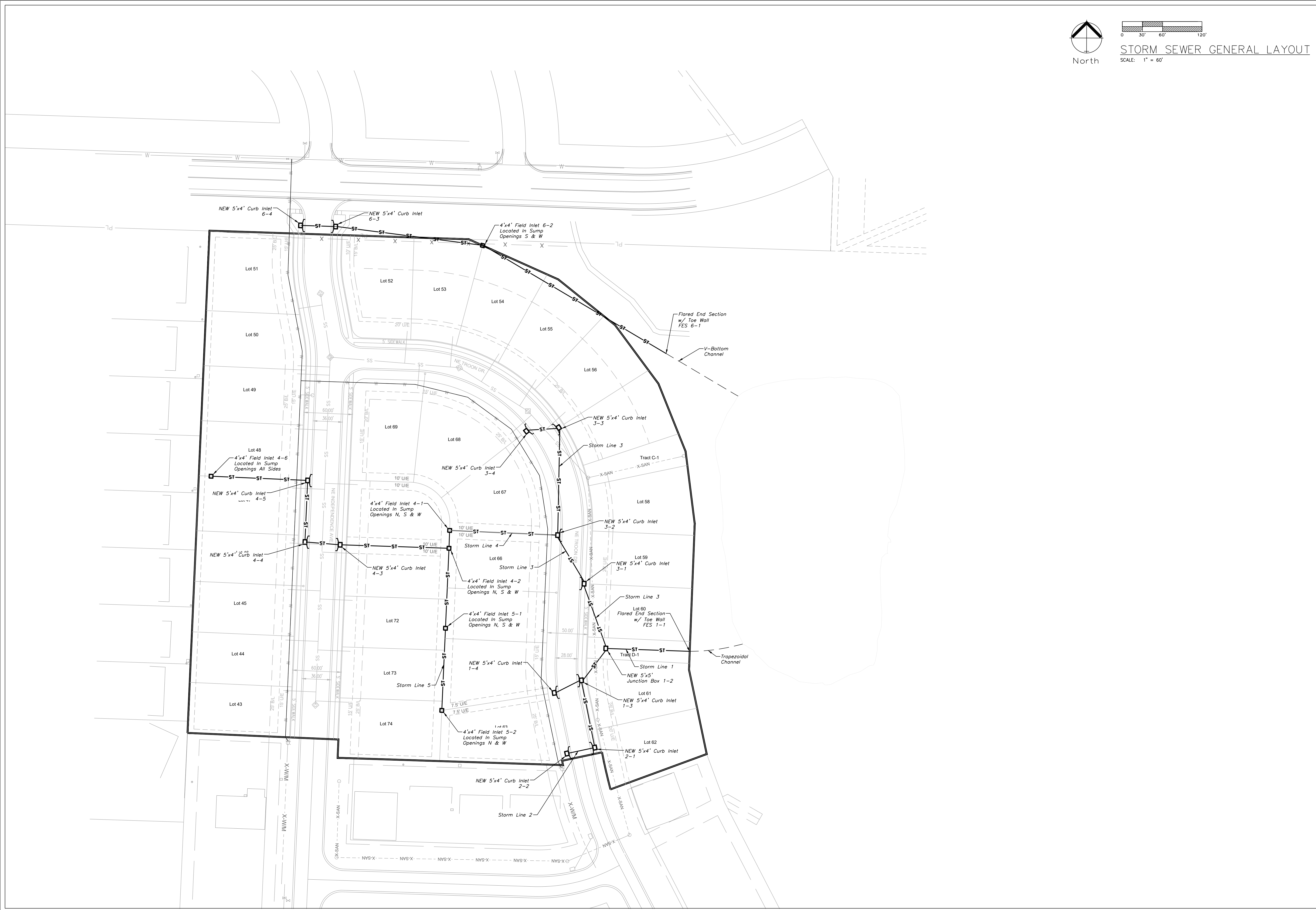
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STORM SEWER GENERAL LAYOUT

SCALE: 1" = 60'

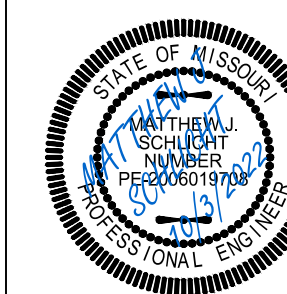


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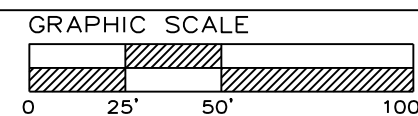
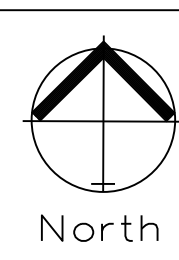
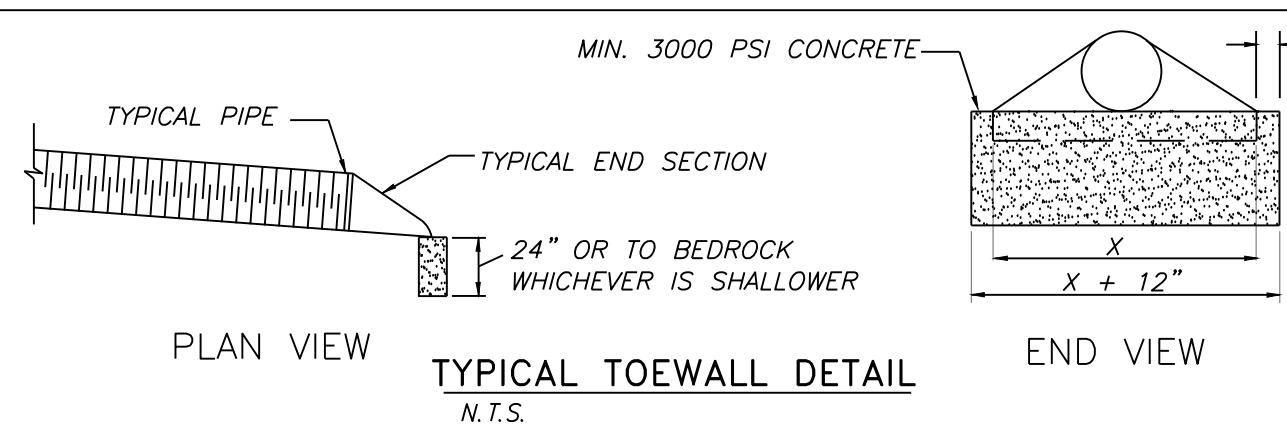
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Storm 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



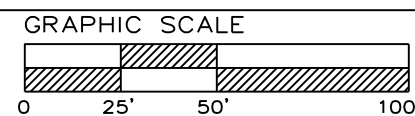
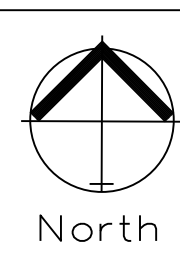
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
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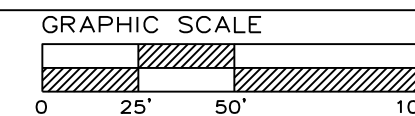
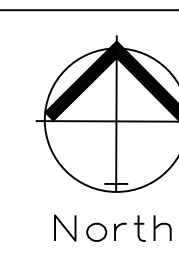
STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



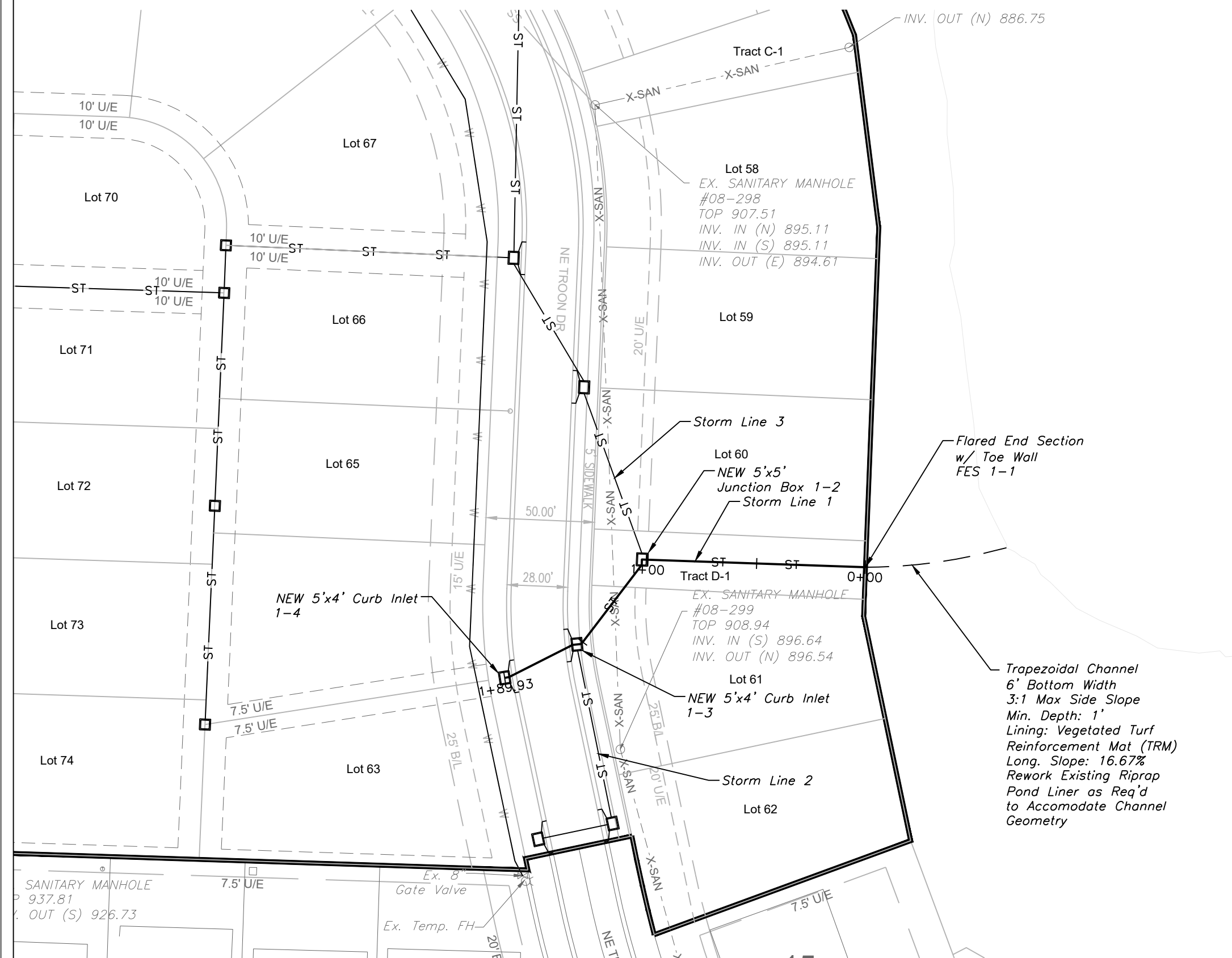
STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

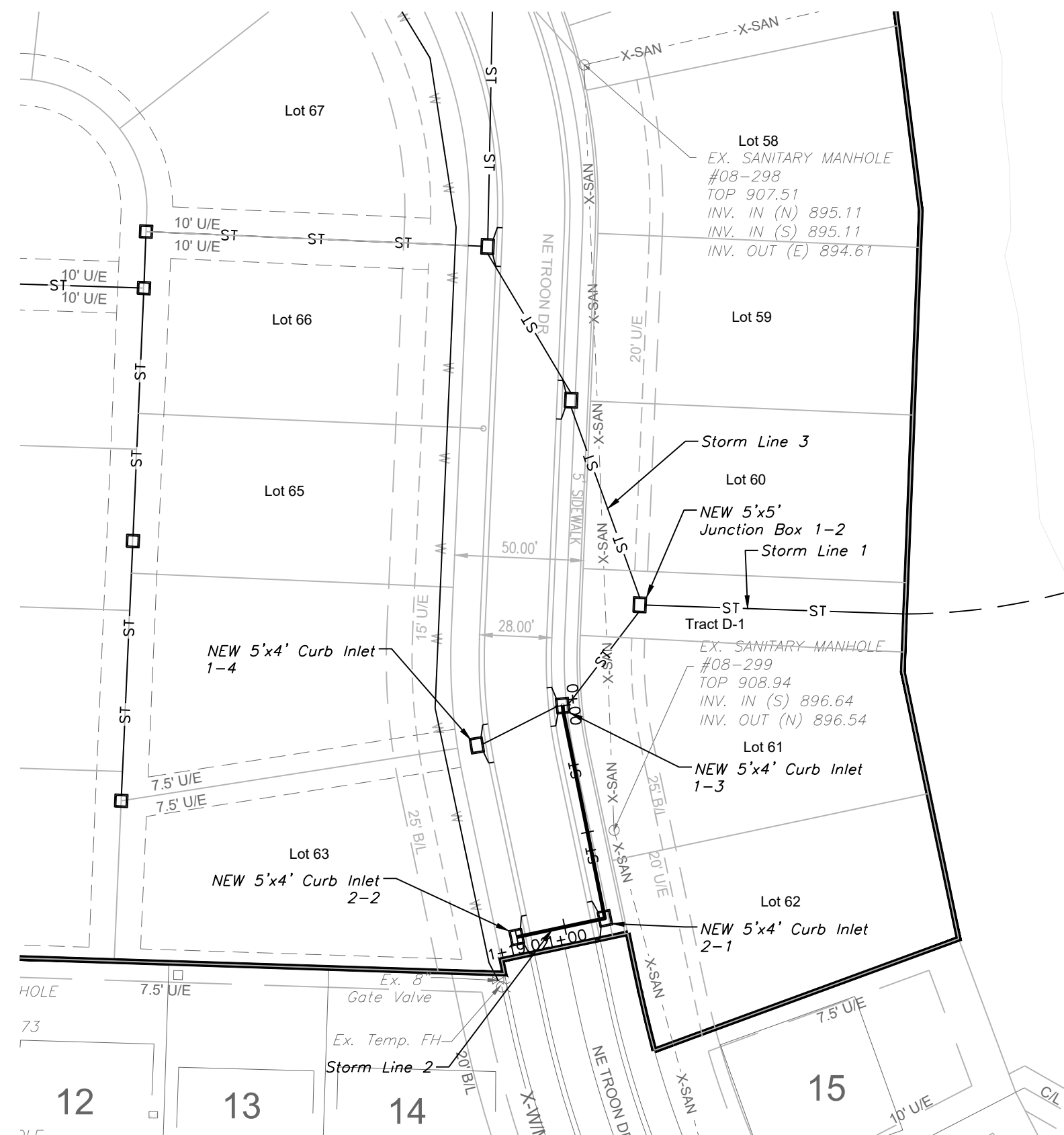


STORM SEWER PLAN & PROFILE

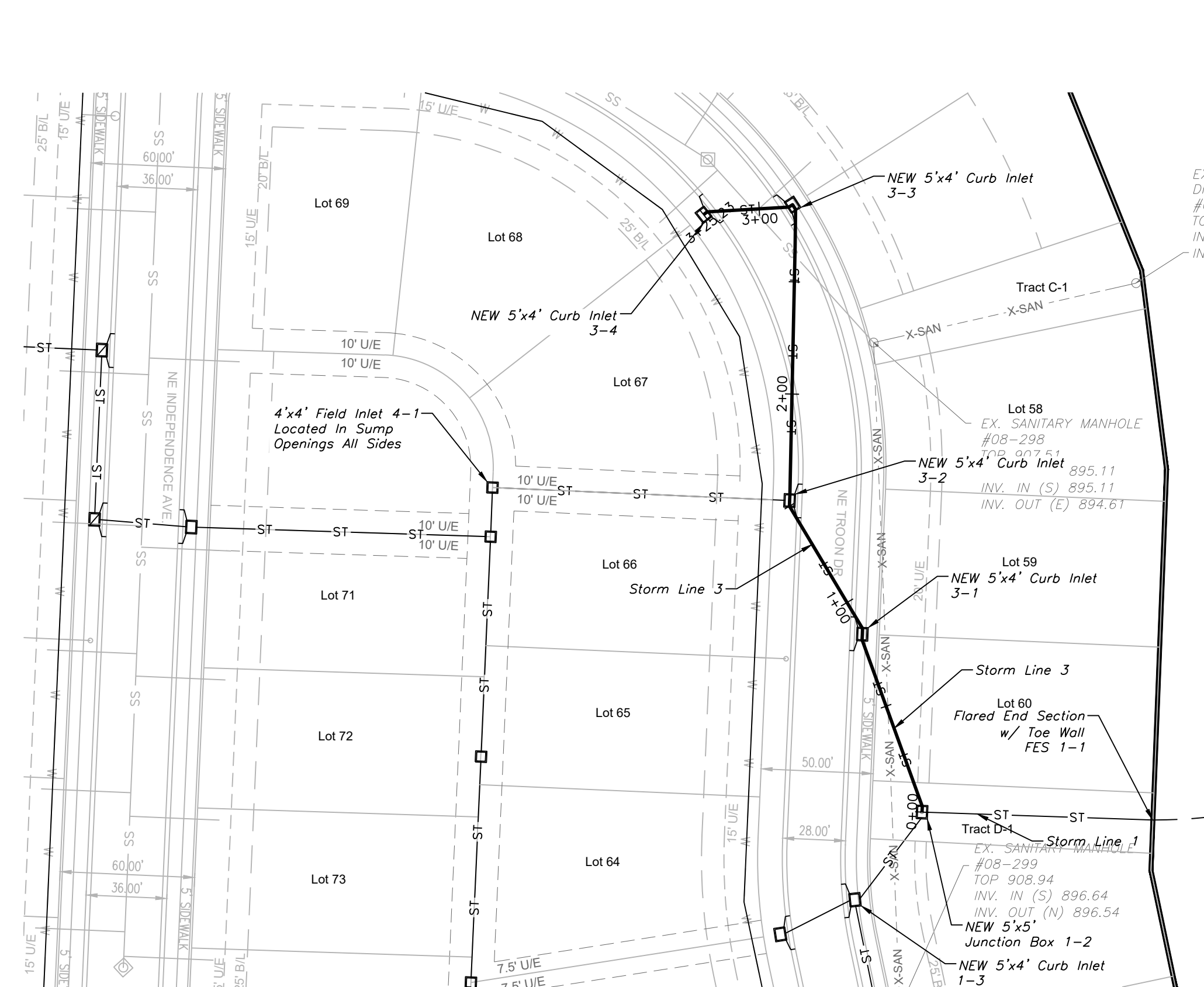
SCALE: 1" = 50'



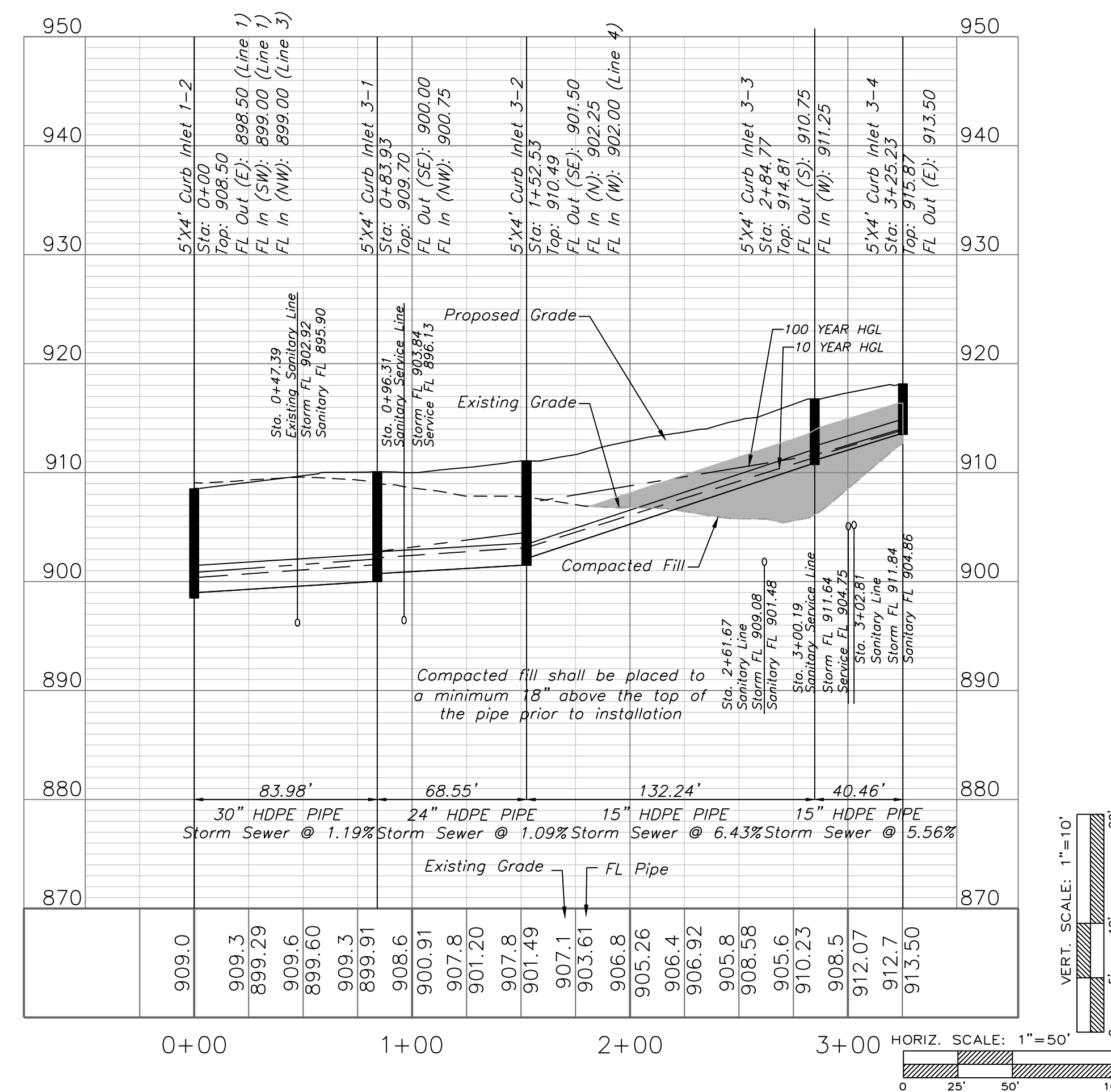
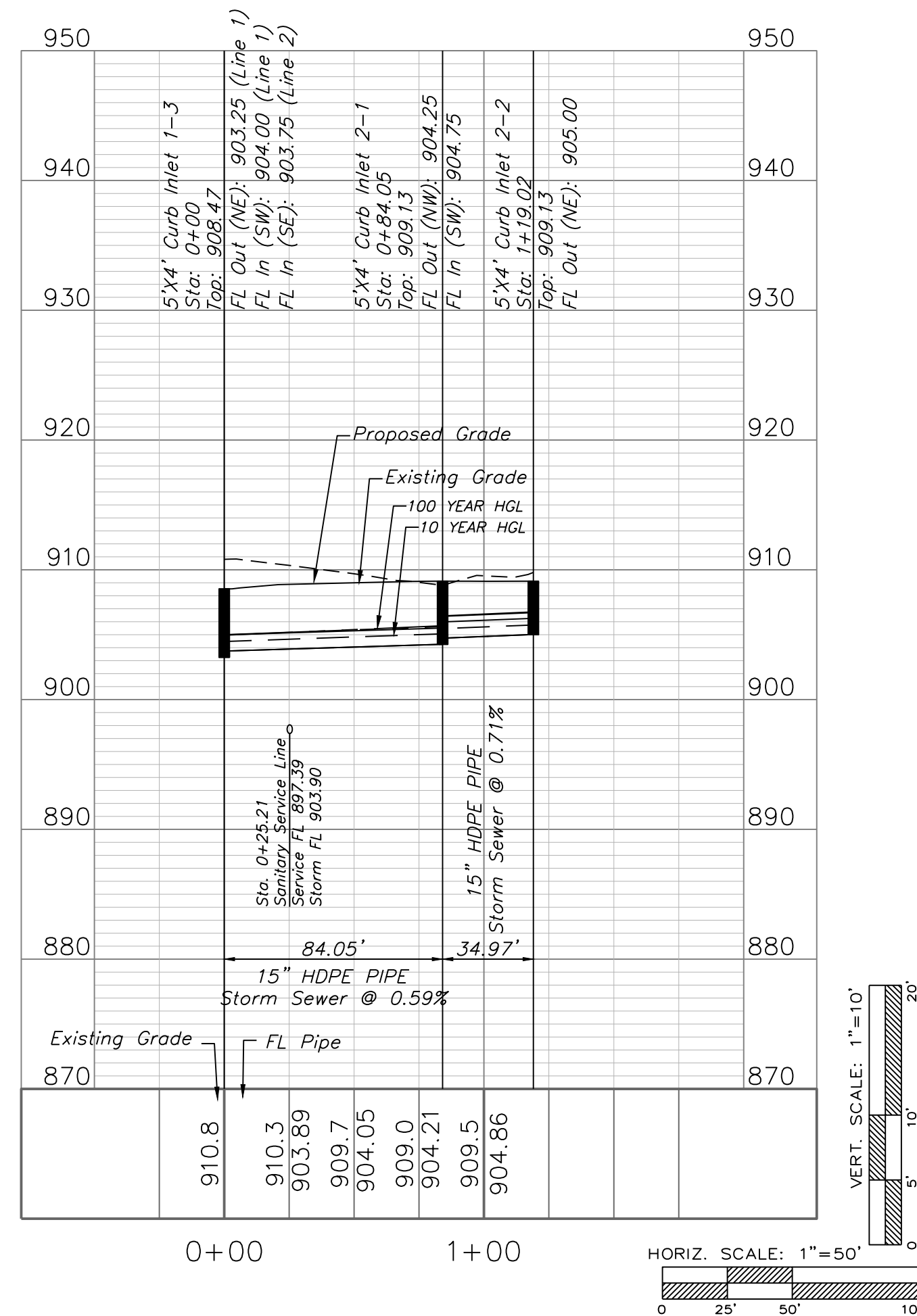
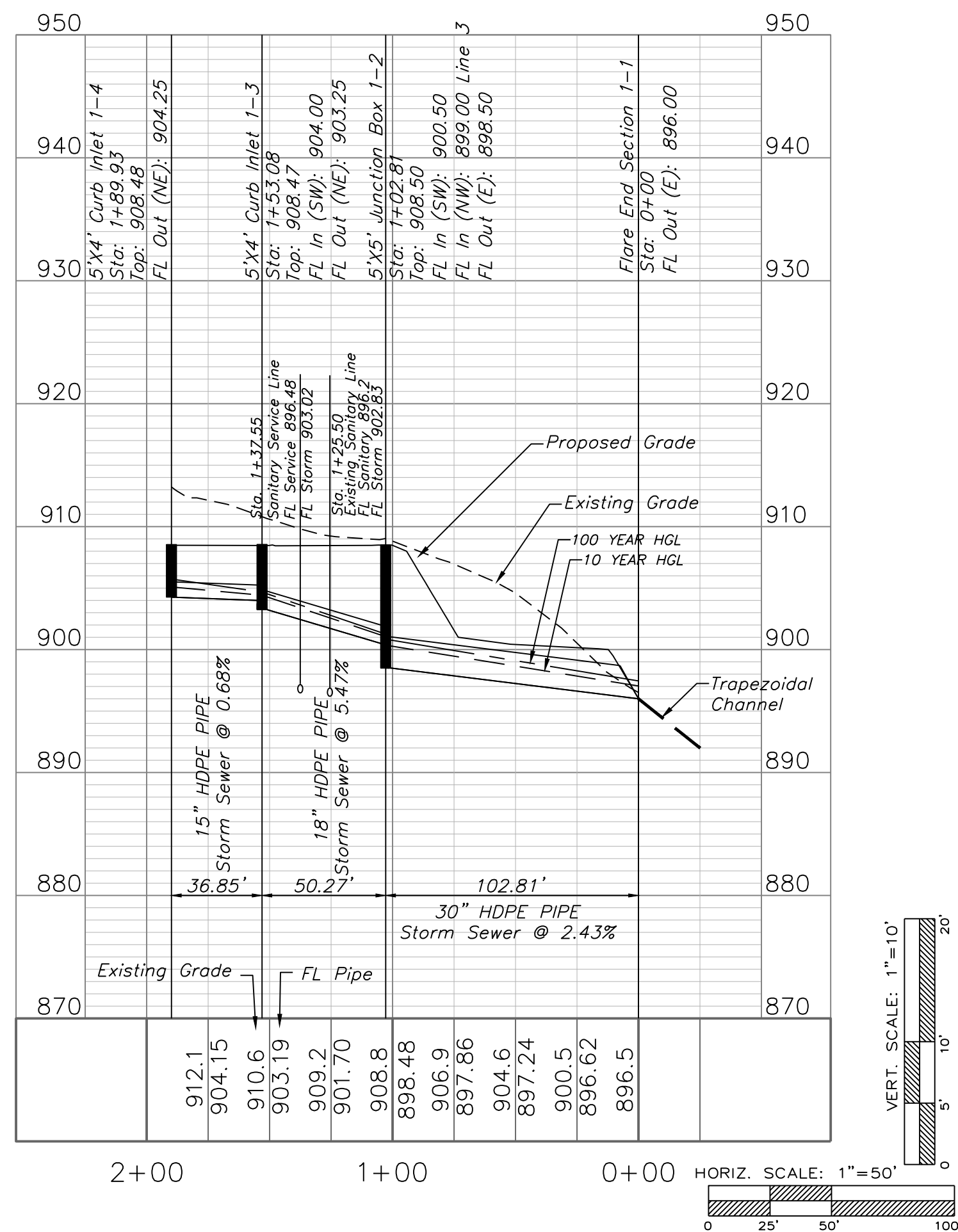
STORM LINE 1



STORM LINE 2



STORM LINE 3



ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

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Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

Project: THE VILLAS OF CHAPEL RIDGE, LSUMO
Issue Date: June 24, 2022

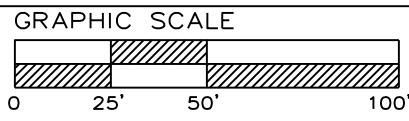
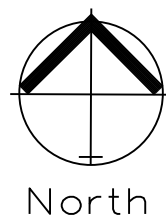
Storm Sewer Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

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

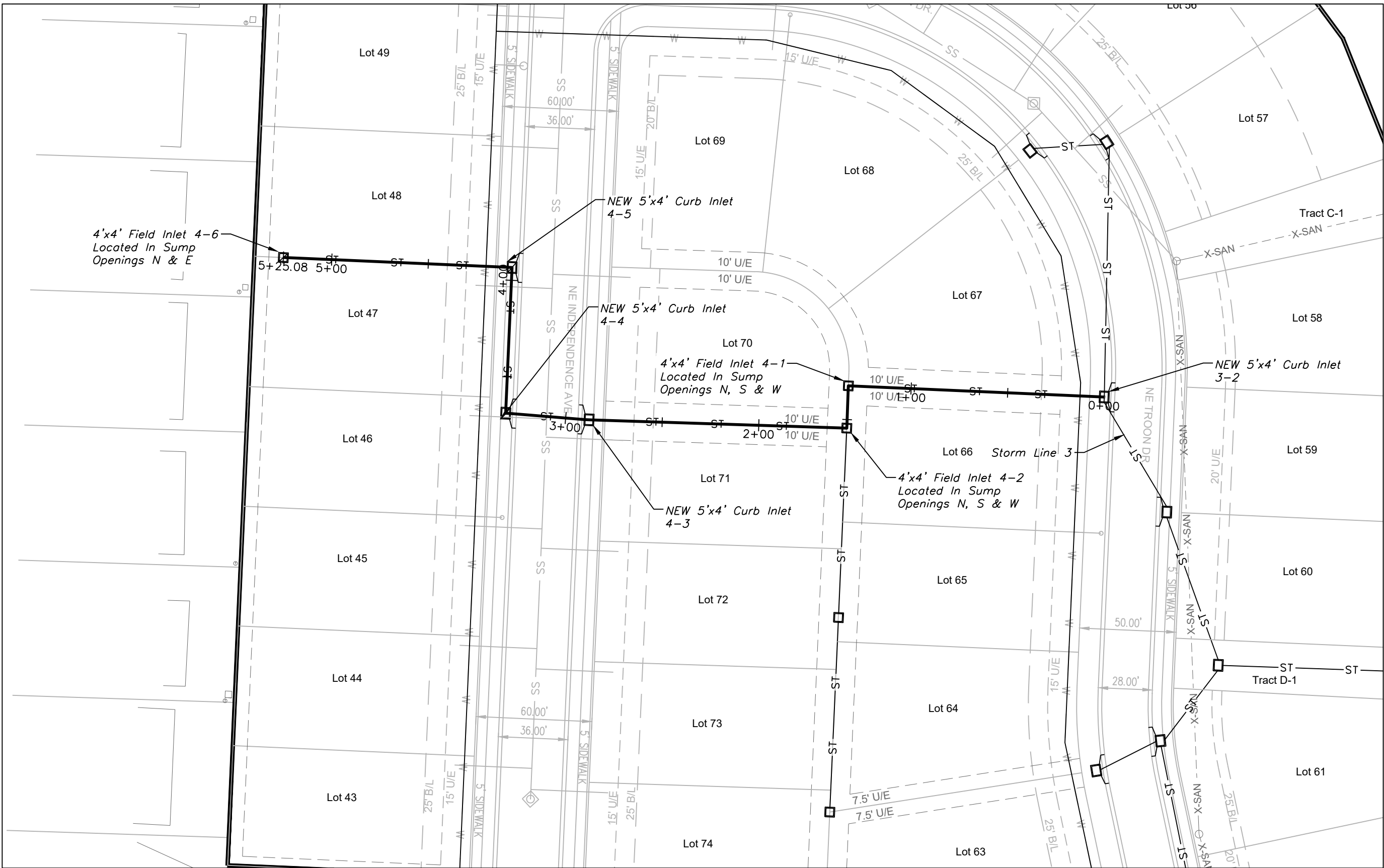
REVISIONS

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

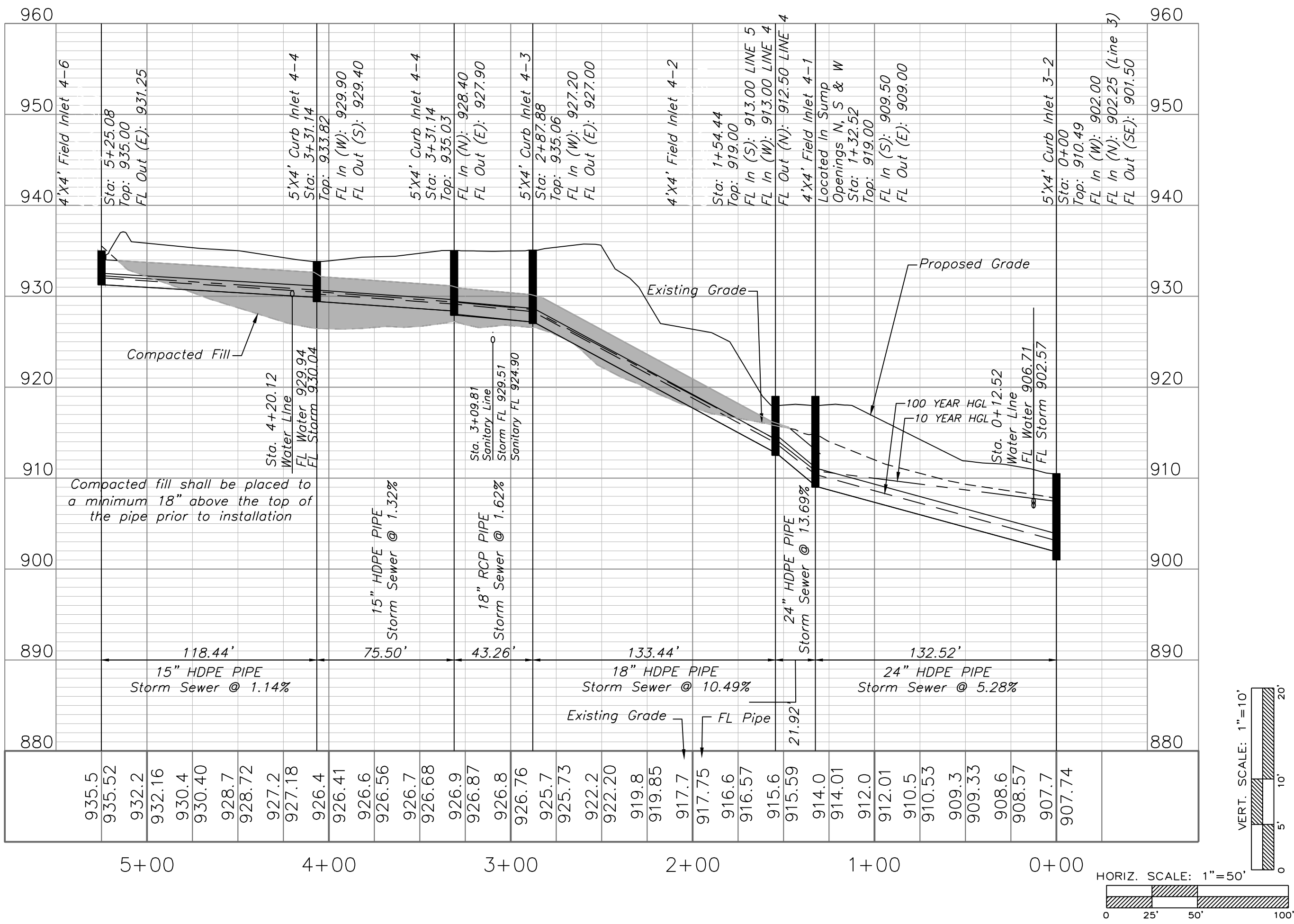
C.301



STORM SEWER PLAN & PROFILE
SCALE: 1" = 50'



STORM LINE 4

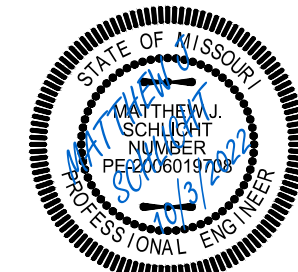


Professional Registration
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

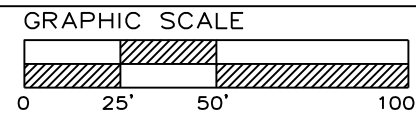
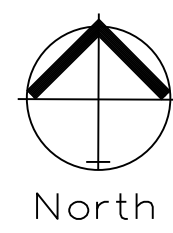
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Storm Sewer 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



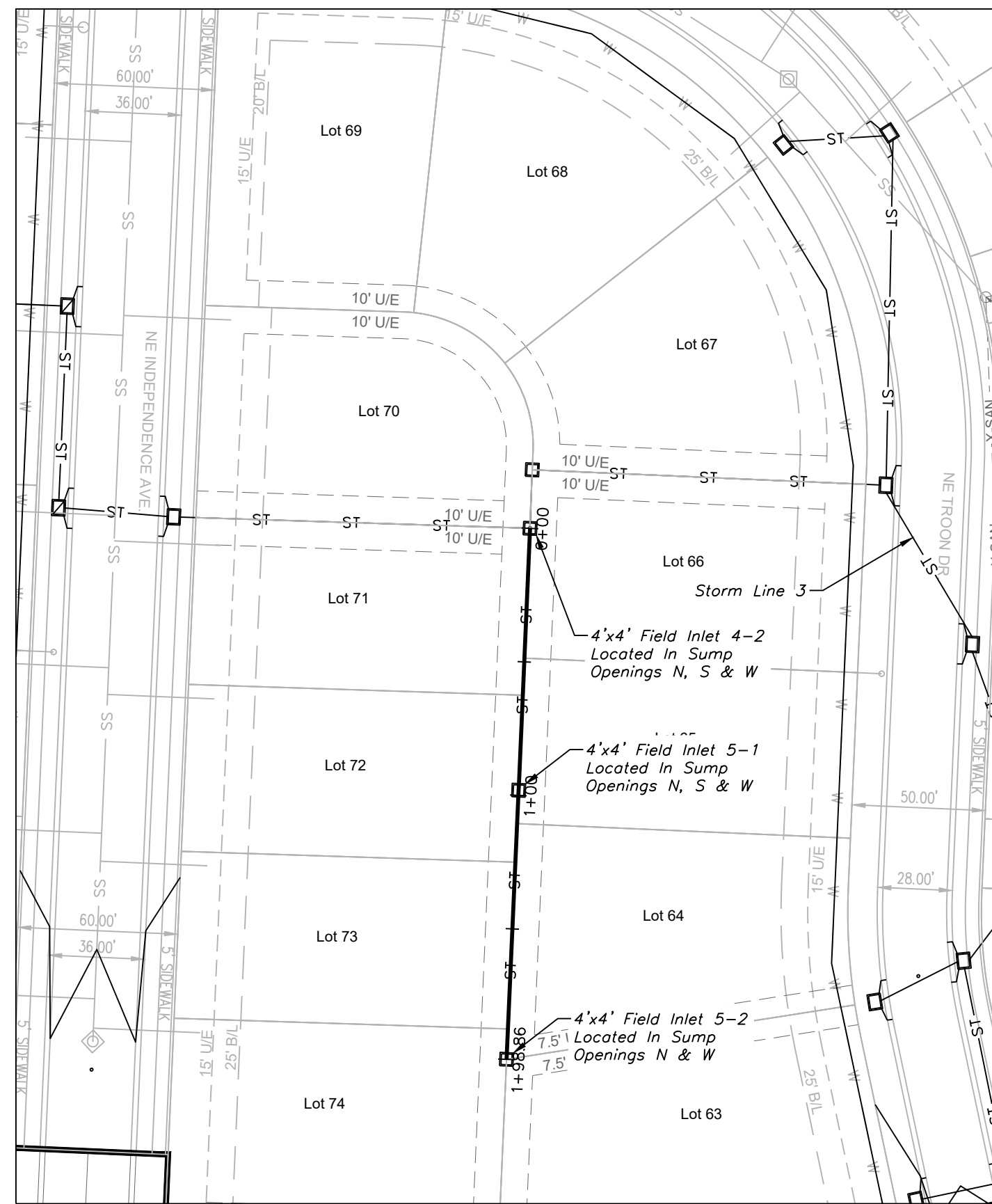
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REVISIONS
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REV. 10/3/2022

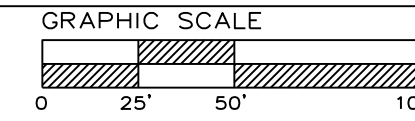
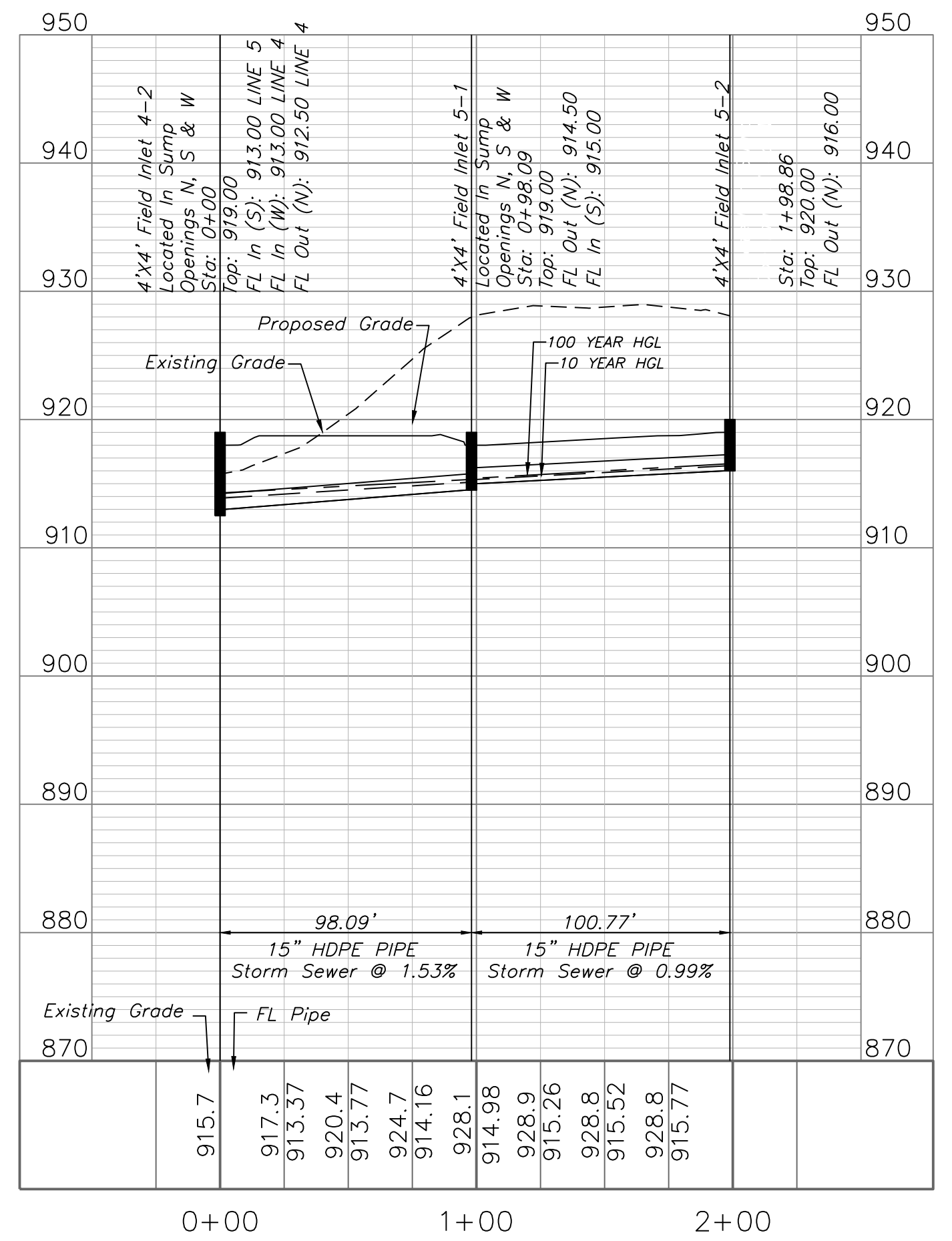


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

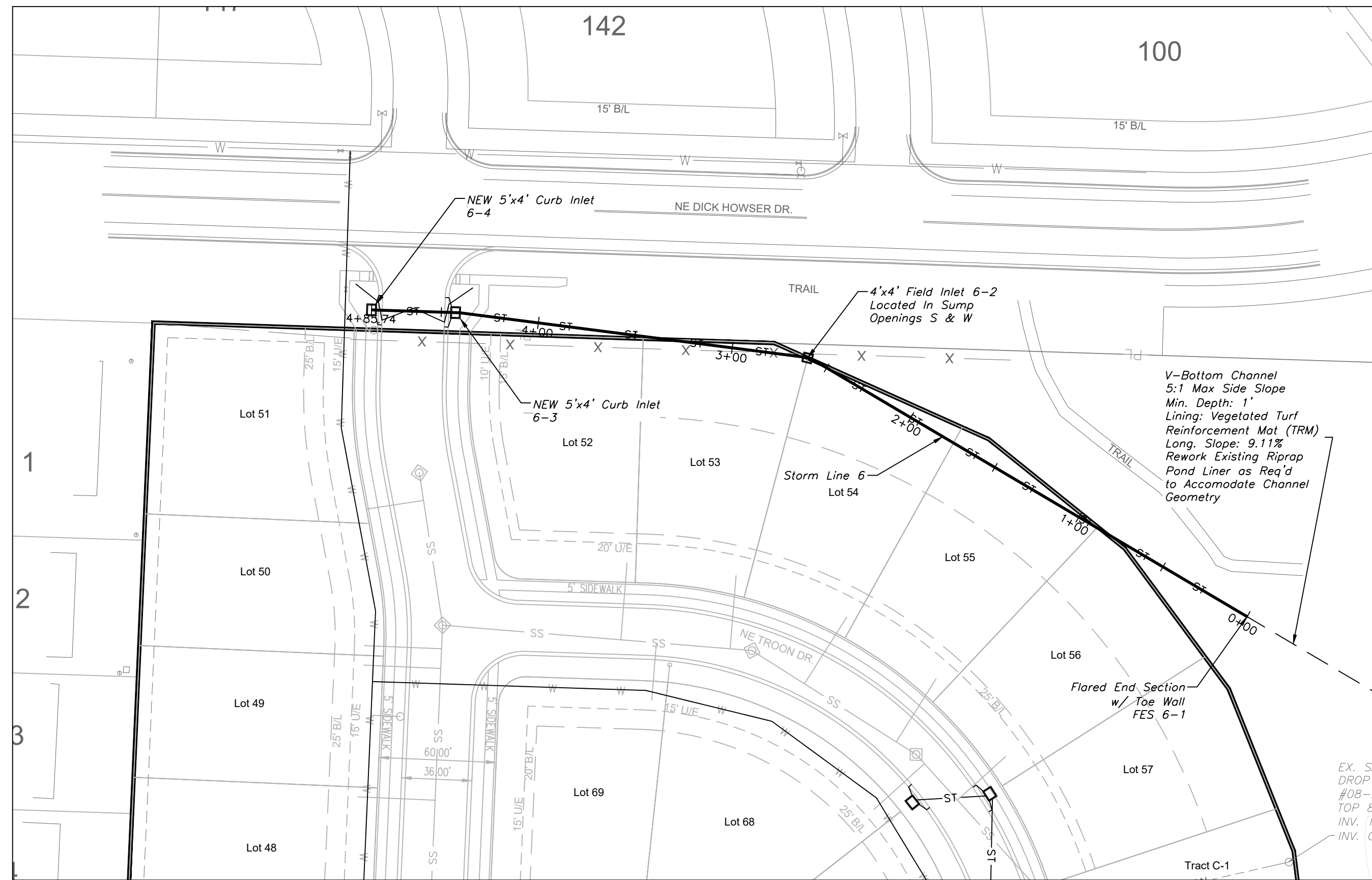


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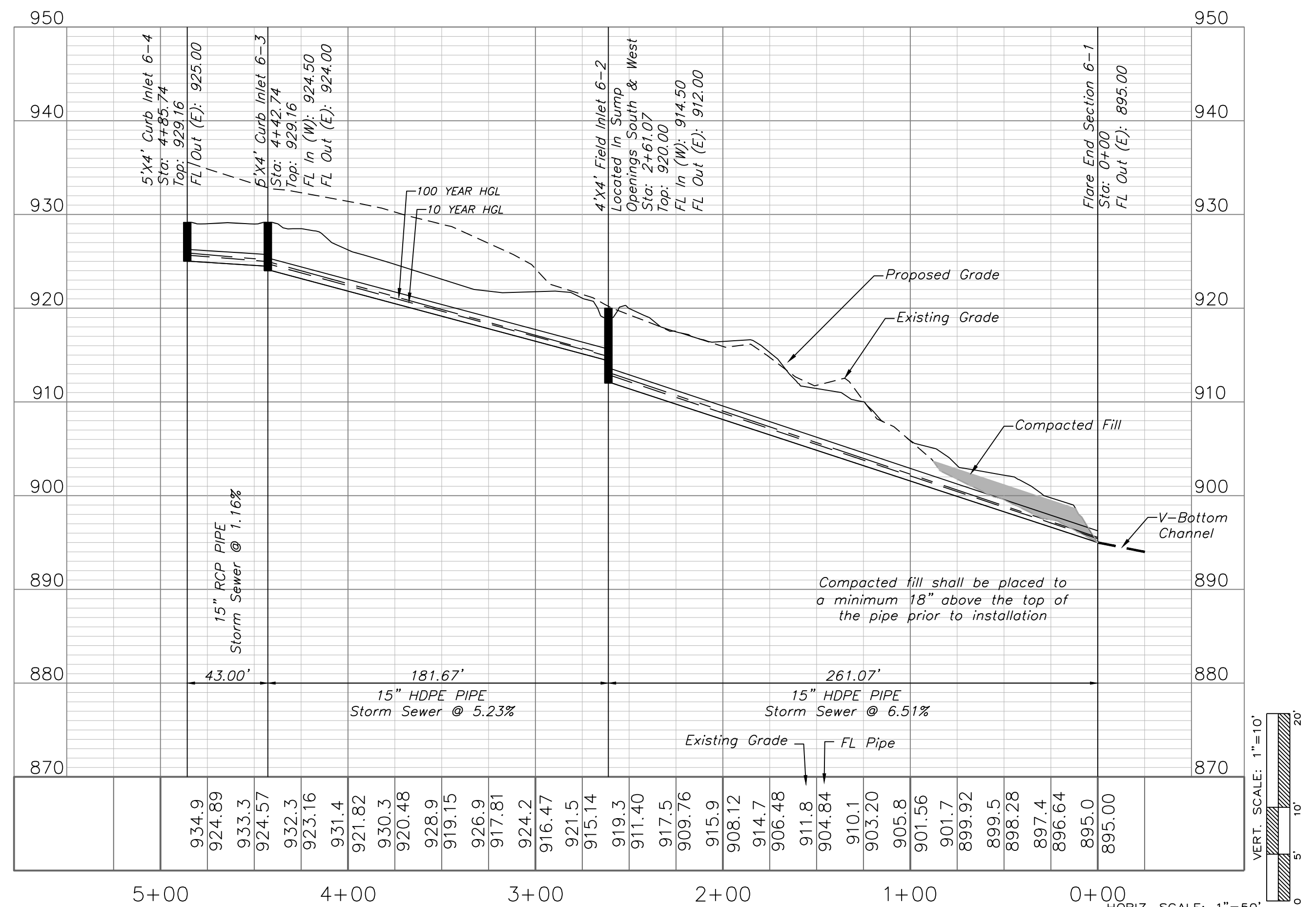


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 6

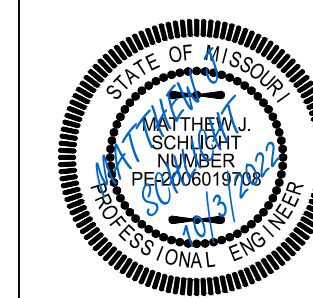


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
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Storm Sewer Plan and Profile
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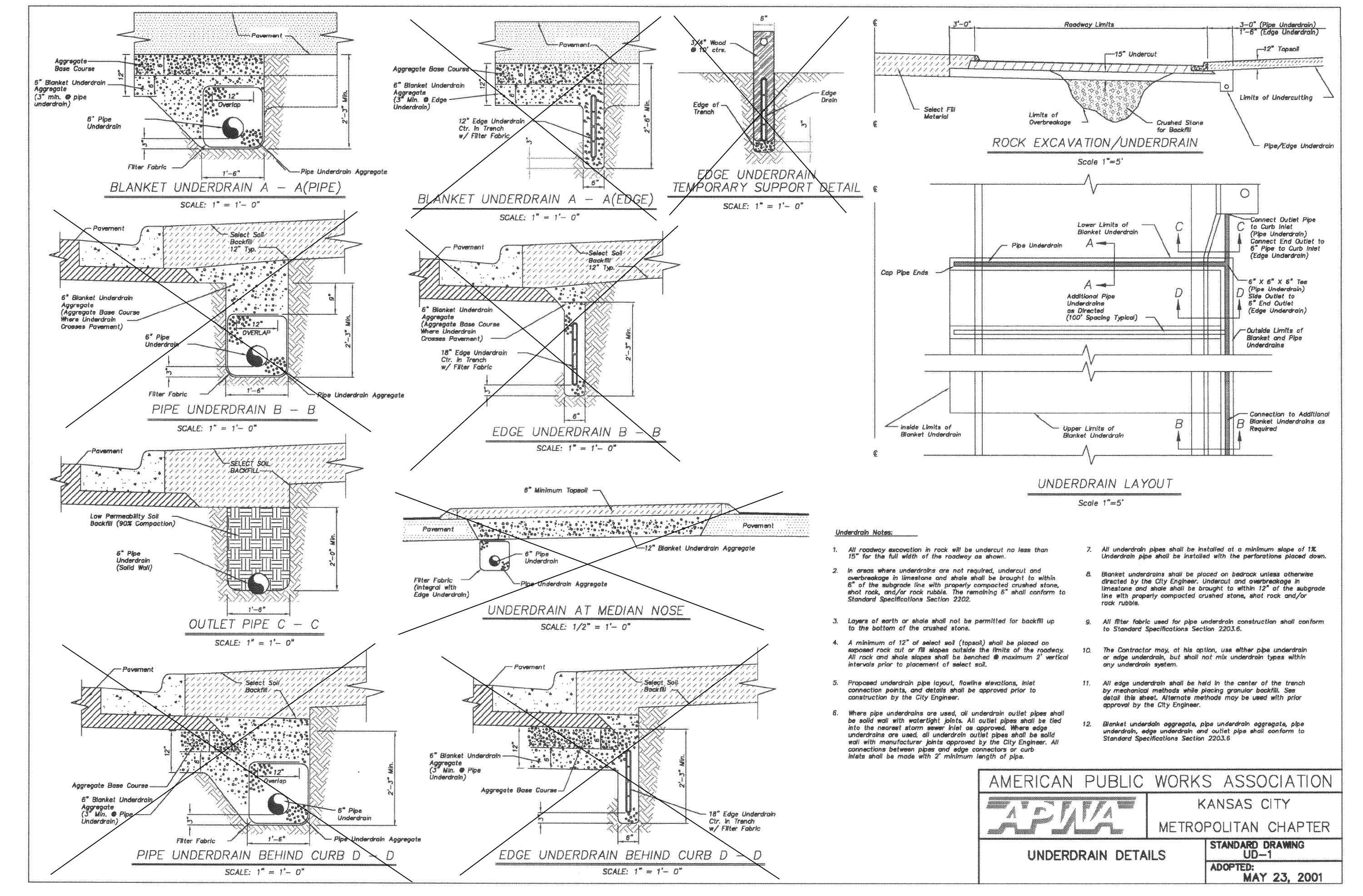
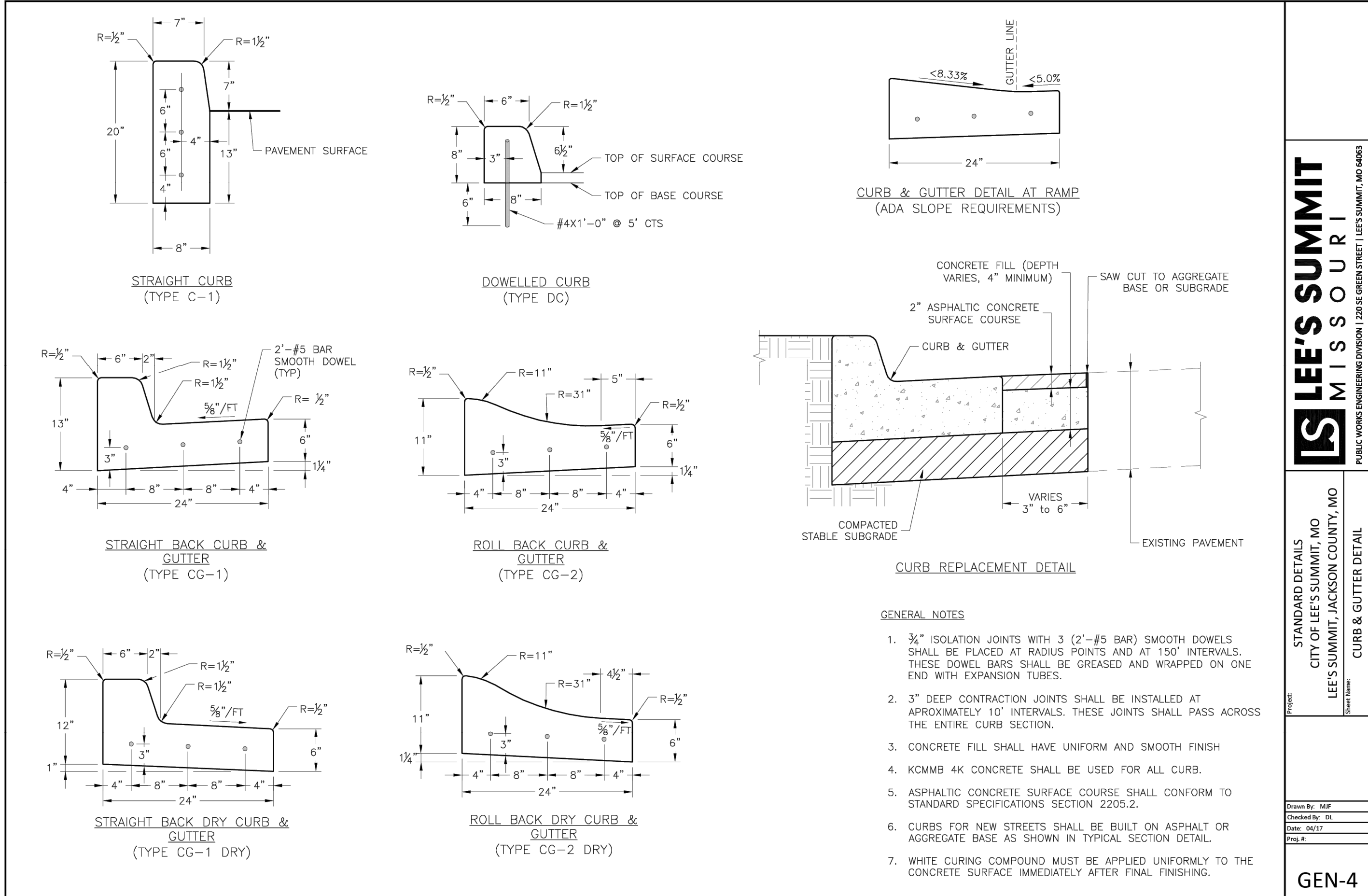
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REV. 8/12/2022
REV. 10/3/2022

10-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....
1-2	1-3	0.21	5.8	7.11	0.66	0.99	0.2	1.19	0	Curb	3.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.66	Sag
1-3	1-4R	0.68	6.6	6.9	0.66	3.09	0.83	3.92	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.15	n/a	n/a	0.4	16.99	Sag
1-4R	1-4L	0.24	5.4	7.23	0.66	1.14	0.81	1.95	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.02	n/a	n/a	0.27	10.67	Sag
1-3	2-1	0.17	6.4	6.95	0.66	0.78	0	0.78	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.9	0	0	0.15	4.69	1-3
2-1	2-2	0.73	5.8	7.11	0.66	3.43	0	2.62	0.81	Curb	3.8	5	0.015	2	0.05	0.02	9	1	0.16	4.78	0.25	9.29	1-4L
1-2	3-1	0.22	5.7	7.14	0.66	1.04	1.05	1.88	0.2	Curb	3.8	5	0.017	2	0.05	0.02	9	0.96	0.09	1.87	0.21	7.3	1-3
3-1	3-2	0.72	5.8	7.11	0.66	3.38	0	2.55	0.83	Curb	3.8	5	0.017	2	0.05	0.02	9	0.99	0.15	4.68	0.24	8.99	1-4R
3-2	3-3	0.31	5.6	7.17	0.66	1.47	1.55	1.97	1.05	Curb	3.8	5	0.062	2	0.05	0.02	9	0.94	0.13	3.71	0.19	6.44	3-1
3-3	3-4	0.79	6.7	6.87	0.66	3.58	0.04	2.08	1.55	Curb	3.8	5	0.08	2	0.05	0.02	9	0.94	0.15	4.32	0.19	6.61	3-3
3-2	4-1	0.15	5	7.34	0.66	0.73	0	0.73	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.07	n/a	n/a	0.07	3.7	Sag
4-1	4-2	0.09	5.1	7.31	0.66	0.43	0	0.43	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.05	n/a	n/a	0.05	2.63	Sag
4-2	4-3	0.32	5.8	7.11	0.66	1.5	0	1.46	0.04	Curb	3.8	5	0.019	2	0.05	0.02	9	0.93	0.05	1.02	0.18	6.13	3-4
4-3	4-4	1.38	7.1	6.77	0.66	6.16	0	3.46	2.71	Curb	3.8	5	0.019	2	0.05	0.02	9	1.04	0.22	7.99	0.29	11.26	4-5
4-4	4-5	0.2	6.8	6.84	0.66	0.9	2.71	2.44	1.17	Curb	3.8	5	0.015	2	0.02	0.02	9	0.95	0.13	6.57	0.2	10.01	6-4
4-5	4-6	0.76	5.6	7.17	0.66	3.6	0	3.6	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.88	Sag
4-2	5-1	0.29	5.3	7.26	0.66	1.39	0	1.39	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.11	n/a	n/a	0.11	5.7	Sag
5-1	5-2	0.23	5.1	7.31	0.66	1.11	0	1.11	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.1	n/a	n/a	0.1	4.91	Sag
6-1	6-2	0.38	7.2	6.74	0.66	1.69	0	1.69	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.17	n/a	n/a	0.17	8.52	Sag
6-2	6-3	0.13	7.2	6.74	0.66	0.58	0	0.58	0	Curb	3.8	5	0.038	2	0.05	0.02	9	0.87	0	0	0.12	2.94	Offsite
6-3	6-4	0.61	7.2	6.74	0.66	2.71	1.17	2.44	1.45	Curb	3.8	5	0.038	2	0.05	0.02	9	0.97	0.16	5.08	0.22	8.04	Offsite

10-YR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
1-1	1-2	102.81	0	7.49	0	0	4.94	0	8.1	6.5	32.26	32.26	83.14	11.89	30	2.43	896.00	898.50	897.08	900.43	0.00	908.00
1-2	1-3	50.27	0.21	2.03	0.66	0.14	1.34	5.8	6.7	6.9	9.2	9.2	31.93	10.91	18	5.47	900.50	903.25	901.05	904.42	908.00	908.47
1-3	1-4R	36.85	0.68	0.92	0.66	0.45	0.61	6.6	6.6	6.9	4.19	4.19	6.91	5.38	15	0.68	904.00	904.25	904.70	905.08	908.47	908.48
1-4R	1-4L	1	0.24	0.24	0.66	0.16	0.16	5.4	5.4	7.2	1.14	1.14	59.36	2.24	15	50.00	904.25	904.75	905.08	905.17	908.48	908.48
1-3	2-1	84.05	0.17	0.9	0.66	0.11	0.59	6.4	6.4	6.9	4.13	4.13	6.47	5.21	15	0.59	903.75	904.25	904.48	905.07	908.47	909.13
2-1	2-2	34.97	0.73	0.73	0.66	0.48	0.48	5.8	5.8	7.1	3.43	3.43	7.1	5.11	15	0.71	904.75	905.00	905.36	905.75	909.13	909.13
1-2	3-1	83.98	0.22	5.46	0.66	0.15	3.6	5.7	7.9	6.6	23.67	23.67	58.18	7.5	30	1.19	899.00	900.00	900.43	901.66	908.00	909.70
3-1	3-2	68.55	0.72	5.24	0.66	0.48	3.46	5.8	7.8	6.6	22.82	22.82	30.76	9.37	24	1.09	900.75	901.50	902.03	903.20	909.70	910.49
3-2	3-3	132.24	0.31	1.1	0.66	0.2	0.73	5.6	6.8	6.8	4.97	4.97	21.28	5.1	15	6.43	902.25	910.75	903.20	911.65	910.49	914.81
3-3	3-4	40.46	0.79	0.79	0.66	0.52	0.52	6.7	6.7	6.9	3.58	3.58	19.8	7.51	15	5.56	911.25	913.50	911.65	914.26	914.81	915.87
3-2	4-1	132.52	0.15	3.42	0.66	0.1	2.26	5	7.5	6.7	15.06	15.06	67.58	7.04	24	5.28	902.00	909.00	903.20	910.40	910.49	923.00
4-1	4-2	21.92	0.09	3.27	0.66	0.06	2.16	5.1	7.4	6.7	14.42	14.42	108.78	8.43	24	13.69	909.50	912.50	910.40	913.87	923.00	923.00
4-2	4-3	133.44	0.32	2.66	0.66	0.21	1.76	5.8	7.2	6.7	11.84	11.84	44.22	9.21	18	10.49	913.00	927.00	913.87	928.31	923.00	935.06
4-3	4-4	43.26	1.38	2.34	0.66	0.91	1.54	7.1	7.1	6.8	10.45	10.45	17.37	7.08	18	1.62	927.20	927.90	928.31	929.14	935.06	935.03
4-4	4-5	75.5	0.2	0.96	0.66	0.13	0.63	6.8	6.8	6.8	4.34	4.34	9.66	5.32	15	1.32	928.40	929.40	929.14	930.24	935.03	933.82
4-5	4-6	118.44	0.76	0.76	0.66	0.5	0.5	5.6	5.6	7.2	3.6	3.6	8.96	5.73	15	1.14	929.90	931.25	930.45	932.02	933.82	935.00
4-2	5-1	98.09	0.29	0.52	0.66	0.19	0.34	5.3	5.5	7.2	2.47	2.47	10.38	3.35	15	1.53	913.00	914.50	913.87	915.13	923.00	920.40
5-1	5-2	100.77	0.23	0.23	0.66	0.15	0.15	5.1	5.1	7.3	1.11	1.11	8.36	3.92	15	0.99	915.00	916.00	915.31	916.41	920.40	922.00
6-1	6-2	261.07	0.38	1.12	0.66	0.25	0.74	7.2	7.7	6.6	4.89	4.89	21.42	9.67	15	6.51	895.00	912.00	895.41	912.90	0.00	920.00
6-2	6-3	181.67	0.13	0.74	0.66	0.09	0.49	7.2	7.3	6.7	3.28	3.28	19.2	8.04	15	5.23	914.50	924.00	914.85	924.73	920.00	929.16
6-3	6-4	43	0.61	0.61	0.66	0.4	0.4	7.2	7.2	6.7	2.71	2.71	9.05	5.28	15	1.16	924.50	925.00	924.97	925.66	929.16	929.16

100-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2				0	0				MH													
1-2	1-3	0.21	5.8	12.52	0.66	1.74	2.16	3.9	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.15	n/a	n/a	0.4	16.92	Sag
1-3	1-4R	0.68	6.6	12.17	0.66	5.46	2.49	7.95	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.35	n/a	n/a	0.6	27.23	Sag
1-4R	1-4L	0.24	5.4	12.71	0.66	2.01	2.48	4.49	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.18	n/a	n/a	0.43	18.6	Sag
1-3	2-1	0.17	6.4	12.26	0.66	1.38	0	1.37	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.93	0.02	0.47	0.18	6.22	1-3
2-1	2-2	0.73	5.8	12.52	0.66	6.03	0	3.55	2.48	Curb	3.8	5	0.015	2	0.05	0.02	9	1.04	0.22	8.09	0.29	11.7	1-4L
1-2	3-1	0.22	5.7	12.57	0.66	1.82	3.65	3.31	2.16	Curb	3.8	5	0.017	2	0.05	0.02	9	1.03	0.21	7.41	0.28	10.97	1-3
3-1	3-2	0.72	5.8	12.52	0.66	5.95	0	3.46	2.49	Curb	3.8	5	0.017	2	0.05	0.02	9	1.04	0.22	7.89	0.29	11.35	1-4R
3-2	3-3	0.31	5.6	12.61	0.66	2.58	3.97	2.91	3.65	Curb	3.8	5	0.062	2	0.05	0.02	9	0.99	0.2	7.02	0.24	9.05	3-1
3-3	3-4	0.79	6.7	12.13	0.66	6.32	0.47	2.82	3.97	Curb	3.8	5	0.08	2	0.05	0.02	9	0.98	0.2	6.89	0.23	8.71	3-3
3-2	4-1	0.15	5	12.9	0.66	1.28	0	1.28	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.11	n/a	n/a	0.11	5.39	Sag
4-1	4-2	0.09	5.1	12.85	0.66	0.76	0	0.76	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.08	n/a	n/a	0.08	3.82	Sag
4-2	4-3	0.32	5.8	12.52	0.66	2.64	0	2.17	0.47	Curb	3.8	5	0.019	2	0.05	0.02	9	0.97	0.13	3.25	0.22	7.91	3-4
4-3	4-4	1.38	7.1	11.96	0.66	10.89	0	4.53	6.36	Curb	3.8	5	0.019	2	0.05	0.02	9	1.09	0.29	11.4	0.34	14.13	4-5
4-4	4-5	0.2	6.8	12.08	0.66	1.6	6.36	3.68	4.27	Curb	3.8	5	0.015	2	0.02	0.02	9	1.02	0.21	10.66	0.27	13.46	6-4
4-5	4-6	0.76	5.6	12.61	0.66	6.33	0	6.33	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.26	n/a	n/a	0.26	12.94	Sag
4-2	5-1	0.29	5.3	12.75	0.66	2.44	0	2.44	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.17	n/a	n/a	0.17	8.31	Sag
5-1	5-2	0.23	5.1	12.85	0.66	1.95	0	1.95	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.14	n/a	n/a	0.14	7.15	Sag
6-1	6-2	0.38	7.2	11.92	0.66	2.99	0	2.99	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.25	n/a	n/a	0.25	12.46	Sag
6-2	6-3	0.13	7.2	11.92	0.66	1.02	0	1.01	0.01	Curb	3.8	5	0.038	2	0.05	0.02	9	0.89	0.03	0.55	0.14	4.22	Offsite
6-3	6-4	0.61	7.2	11.92	0.66	4.8	4.27	3.69	5.39	Curb	3.8	5	0.038	2	0.05	0.02	9	1.04	0.24	9.24	0.29	11.44	Offsite



GENERAL NOTE:

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ADDED UNDERDRAIN DETAILS.

Construction Details

Construction Plans for:

THE VILLAGES OF CHAPEL RIDGE-2ND PLAT

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

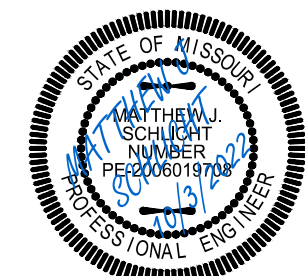
Lee's Summit, Jackson County, Missouri

Project:

VILLAGES OF CHAPEL RIDGE, LSUMO

Issue Date:

June 24, 2022



Matthew J. Schlicht

MO PE 2006019708

KS PE 19071

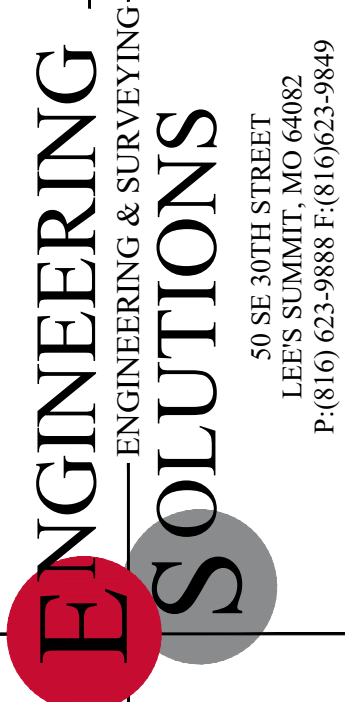
OK PE 25226

NE PE E-14335

REVISIONS

REV. 8/12/2022

REV. 10/3/2022



Professional Registration

Missouri

Engineering 2005002186-D

Surveying 2005008319-D

Kansas

Engineering E-1695

Surveying LS-218

Oklahoma

Engineering 6254

Nebraska

Engineering CA2821

THE VILLAGES OF CHAPEL RIDGE-2ND PLAT

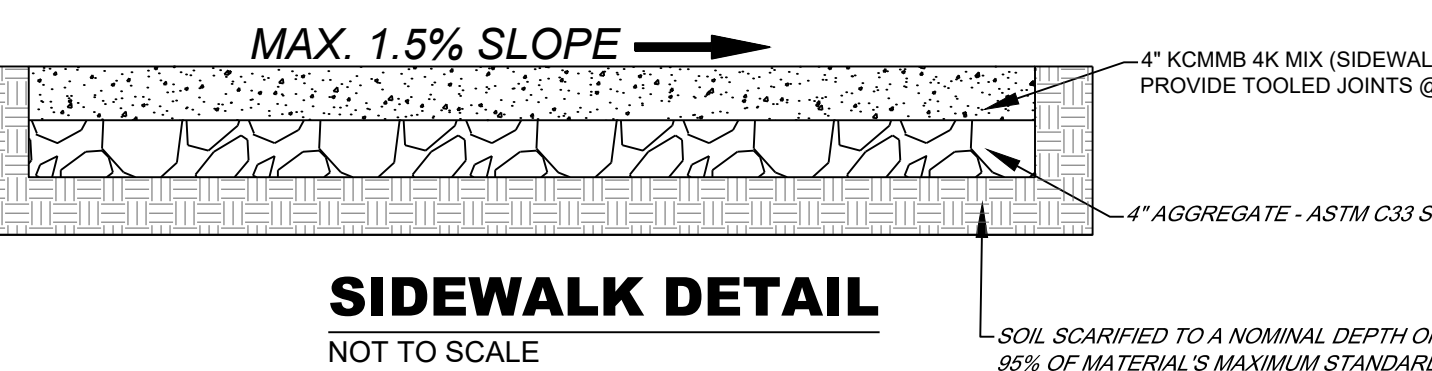
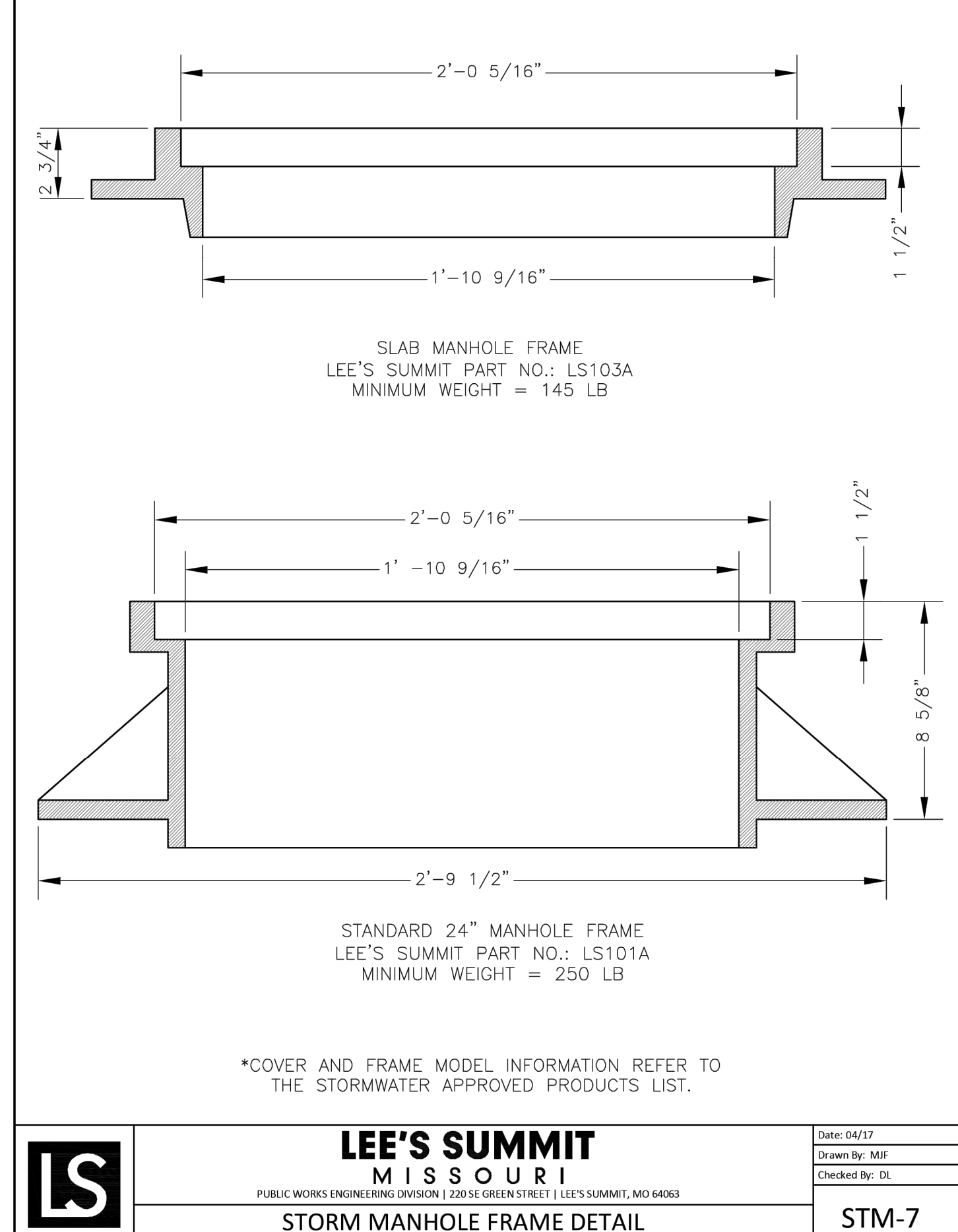
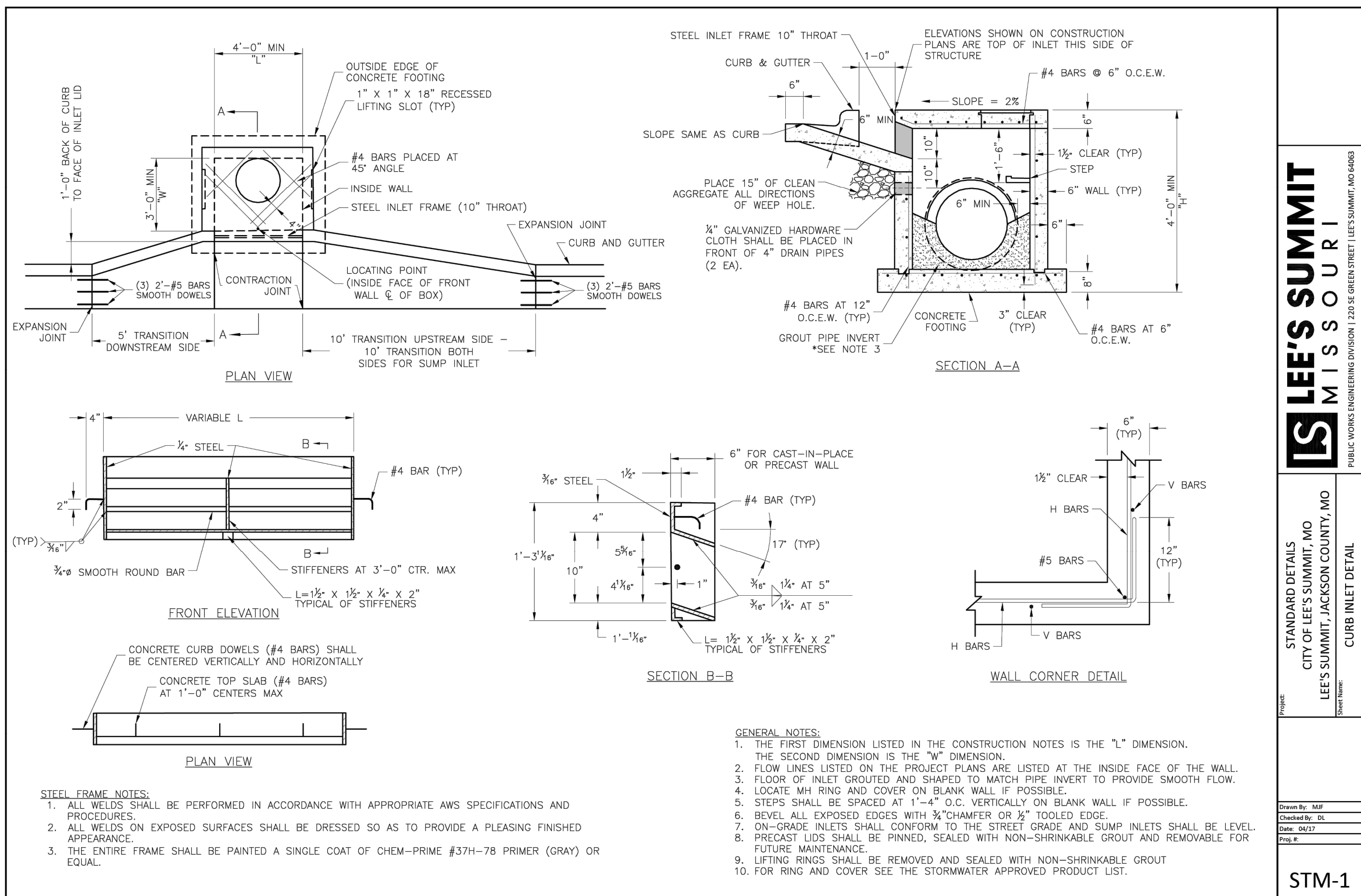
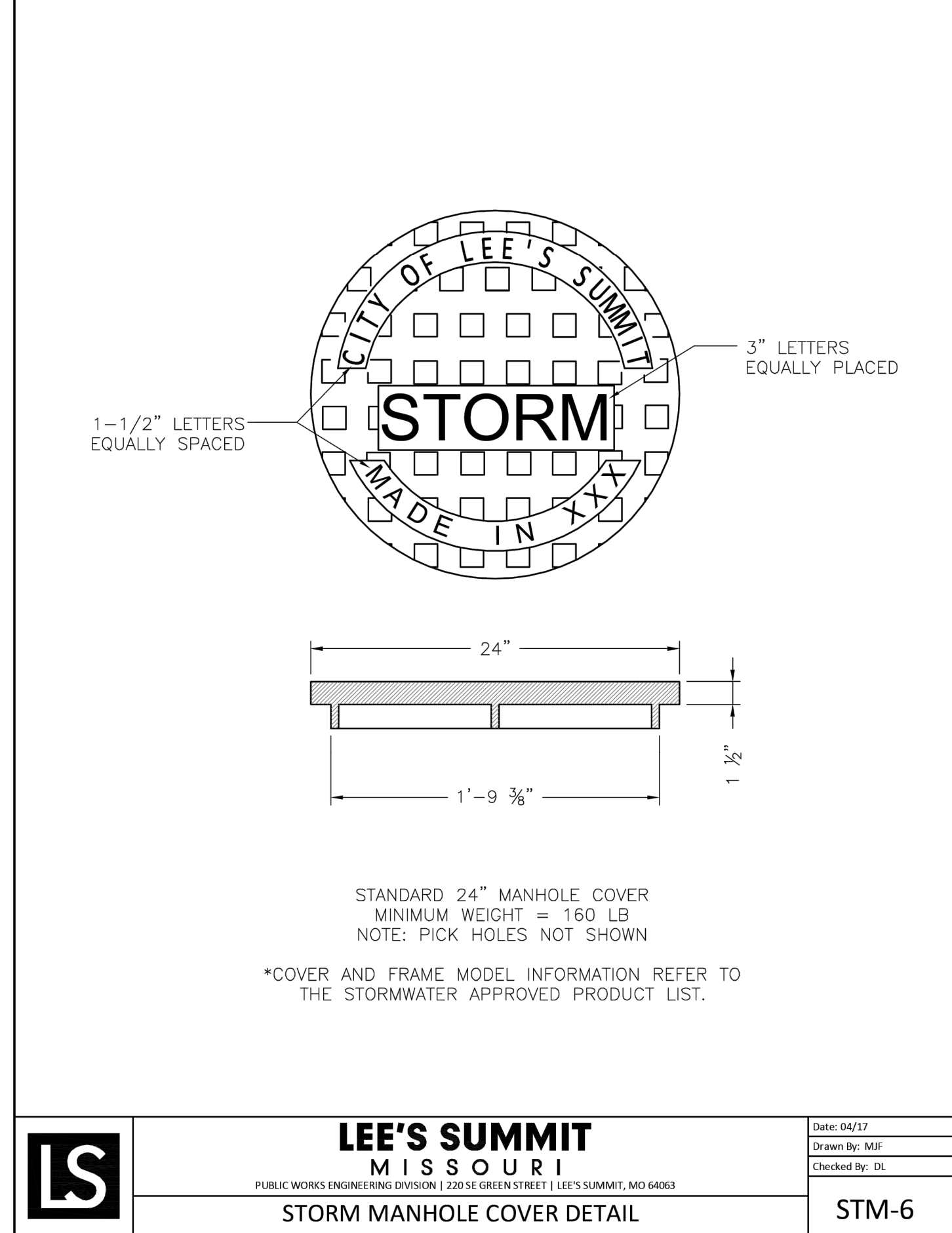
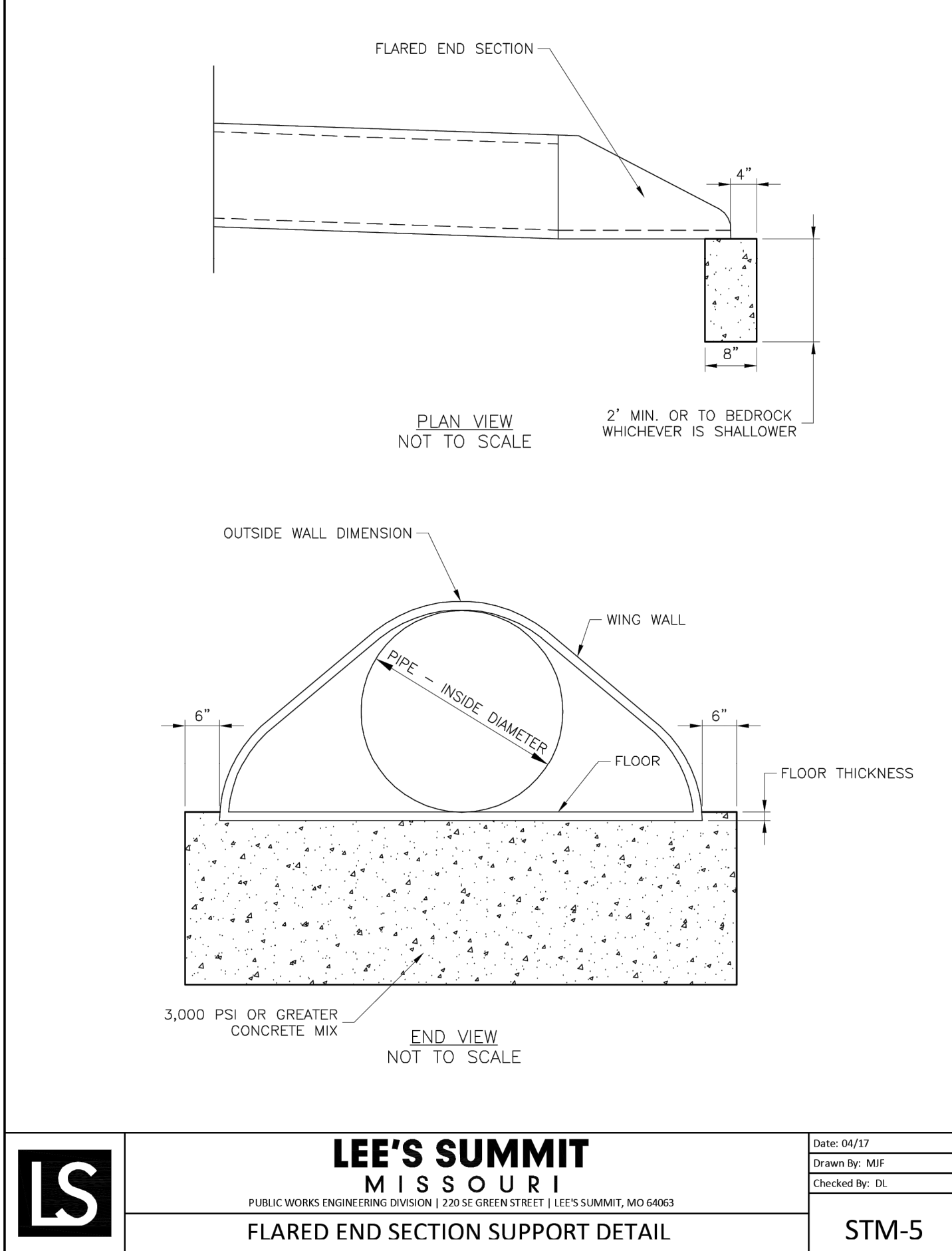
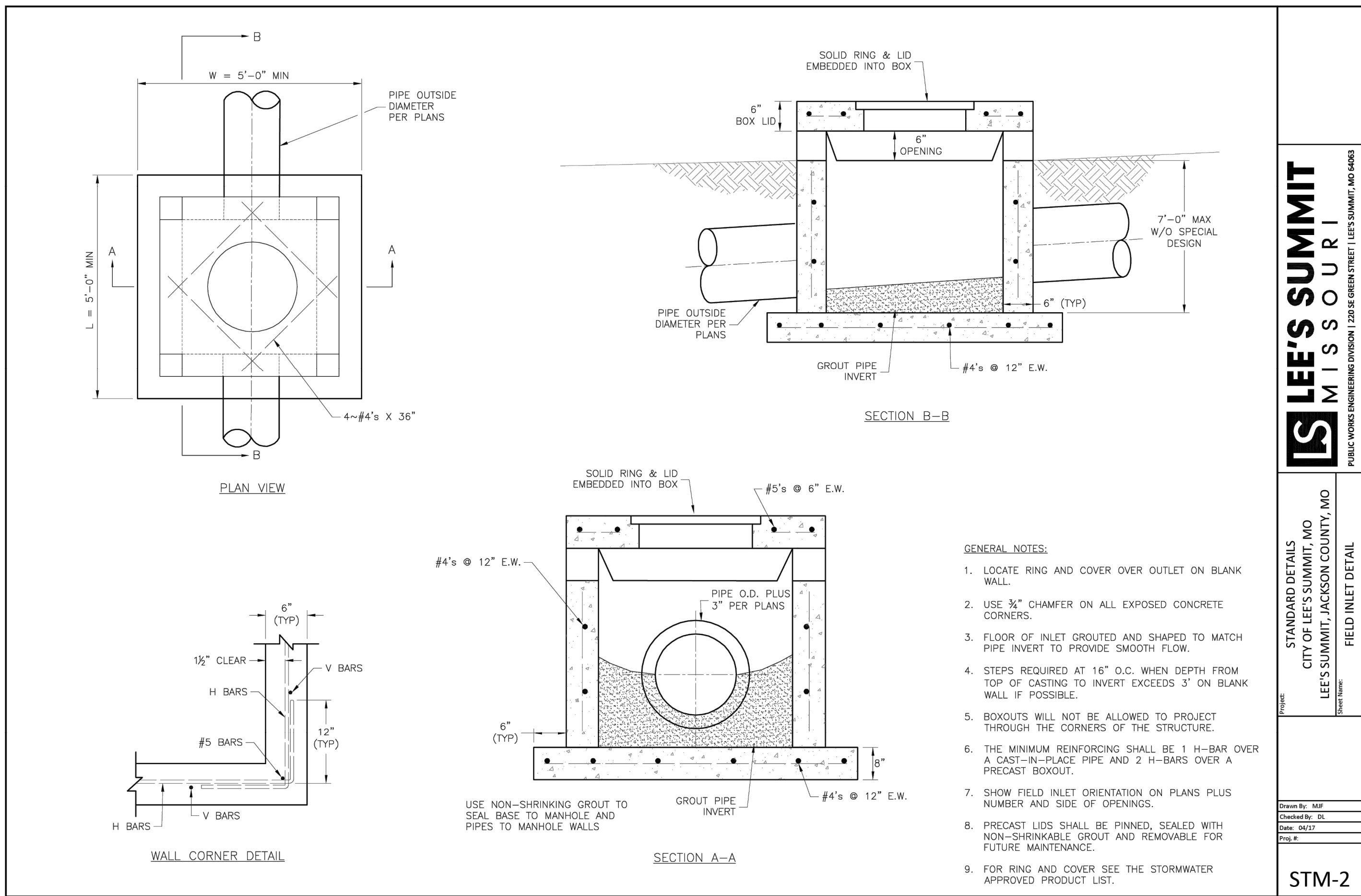
LOTS 43-74 and Tracts C-1 & D-1

Lee's Summit, Jackson County, Missouri

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LEE'S SUMMIT, MO 64082

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