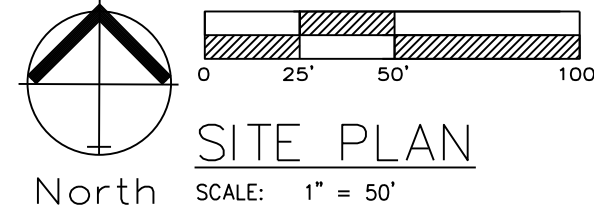


LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



SITE PLAN
SCALE: 1" = 50'

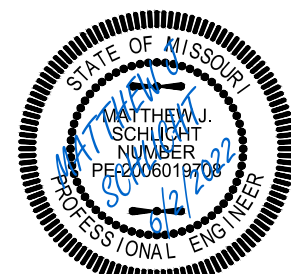


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying L-S-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project: PARK RIDGE
Issue Date:
March 17, 2021

Site Plan
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



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

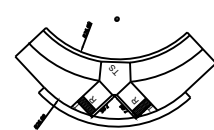
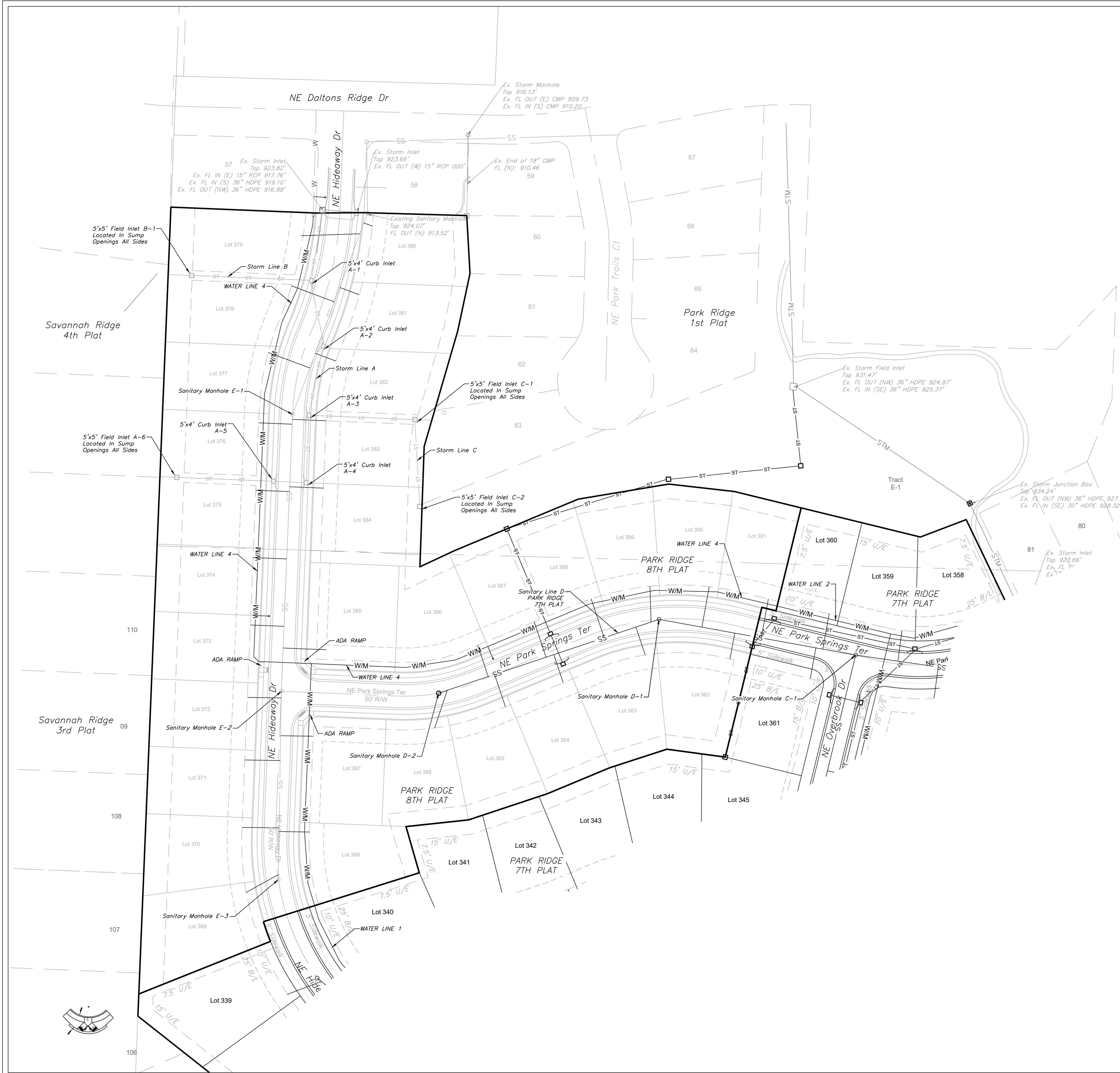
REVISIONS
6/2/2022 As-Built

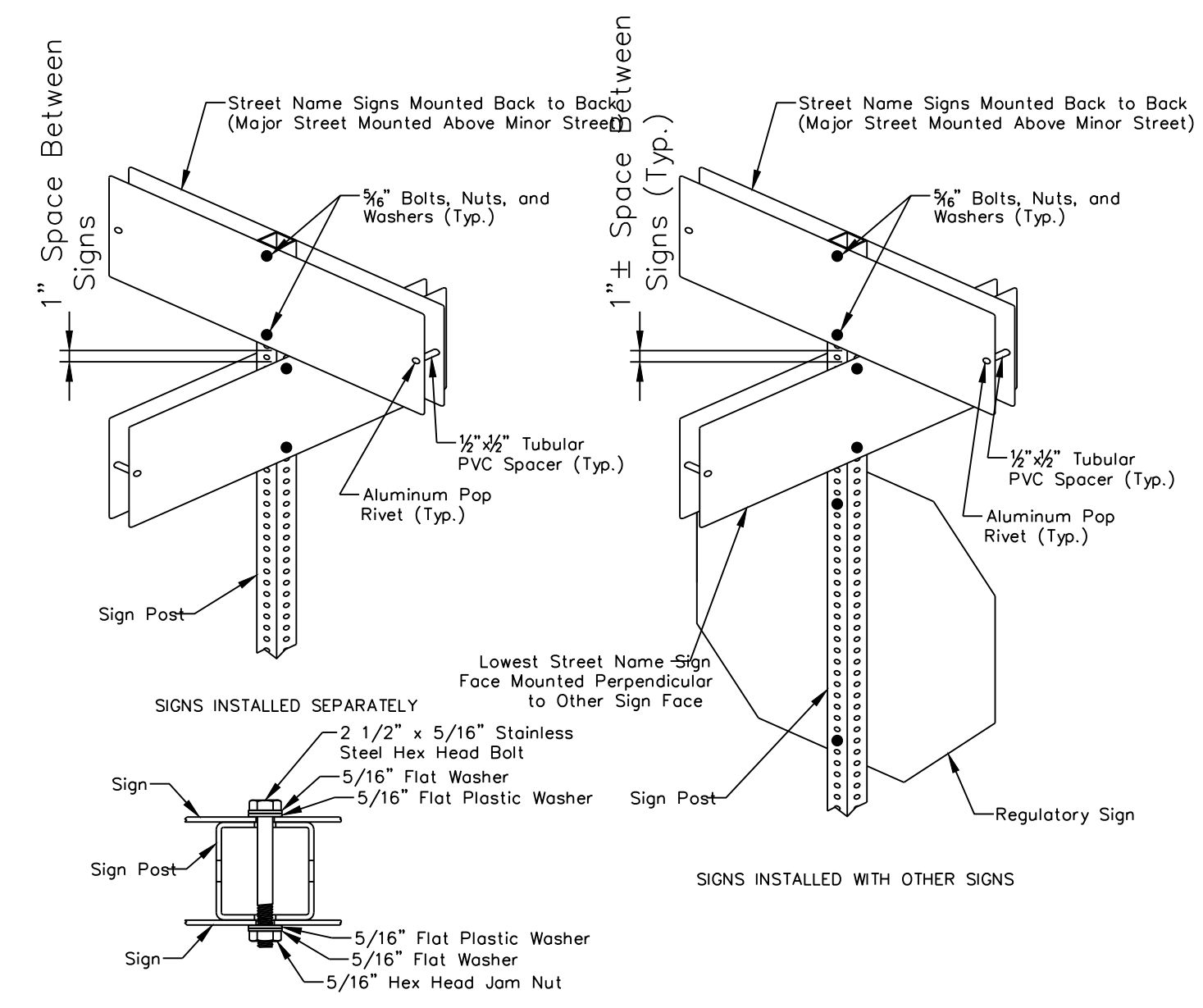
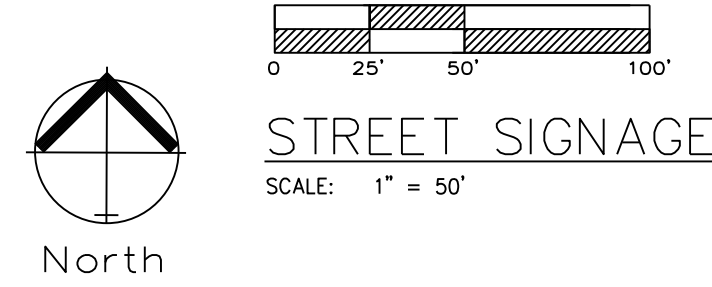
C.100

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 my firm.

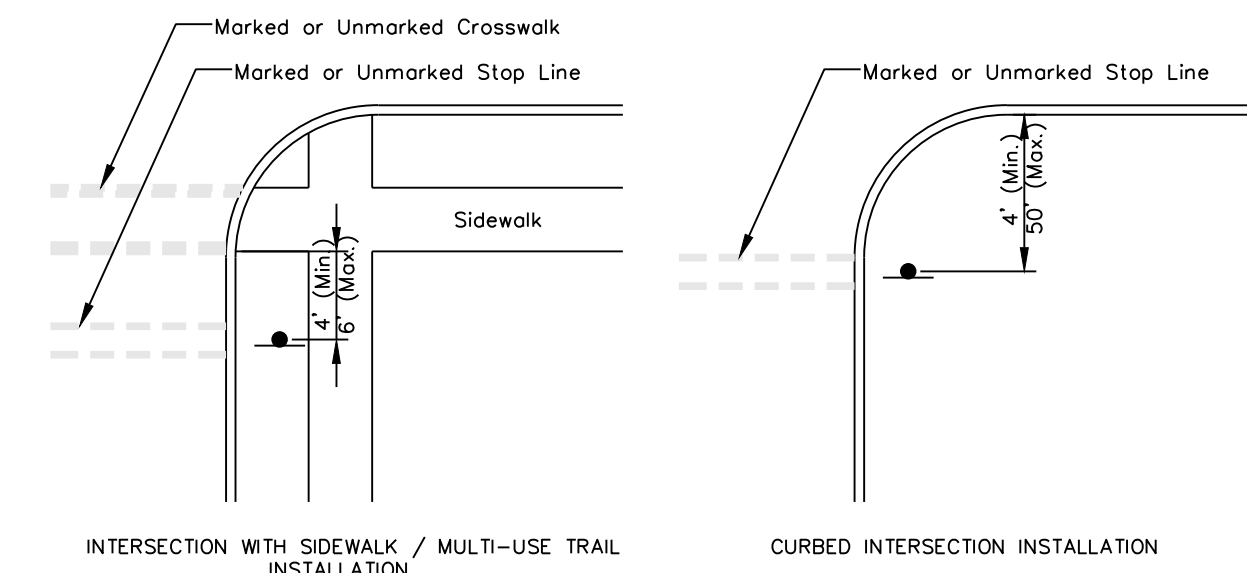
"400-00 100.10", "4-60% 1.15% slope", or "8-inch HDPE-PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions

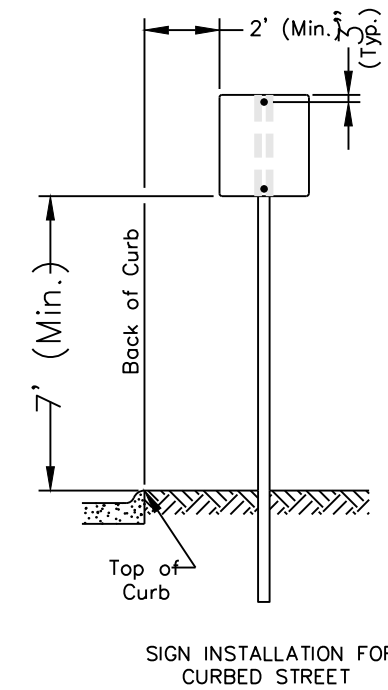
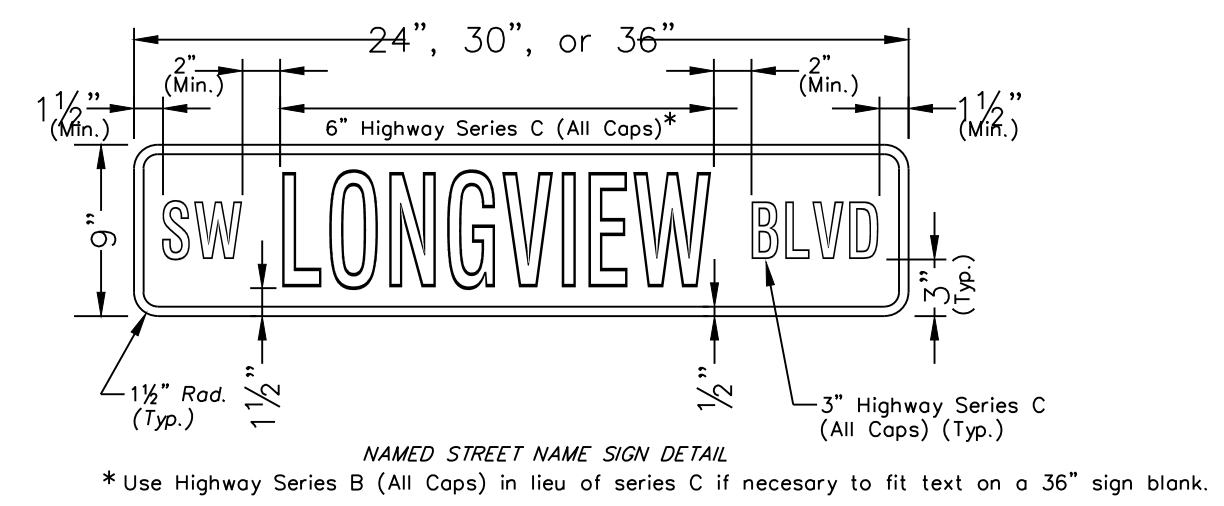




SQUARE STEEL POST MOUNTING DETAILS



CONTROL SIGN LOCATION



SIGN MOUNTING DETAILS

* 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.

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

Project: PARK RIDGE
Issue Date: March 17, 2021
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

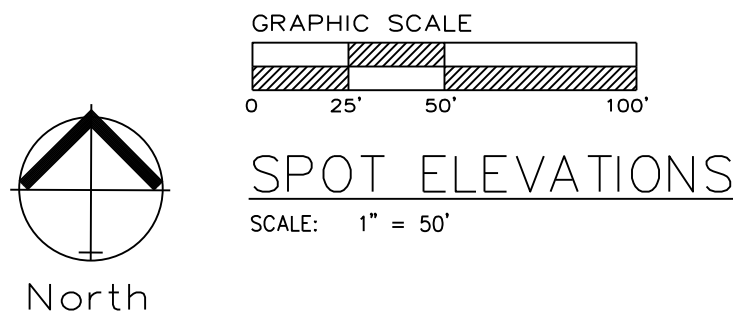
Street Signage
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



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

REVISIONS
6/2/2022 As-Built





Lot Number	Basement Type	MBOE
362	Full	952.20
363	Full	
364	Full	
365	Full	
366	Full	
367	Full	
368	Full	
369	Daylight	
370	Full	
371	Full	
372	Full	
373	Full	
374	Full	
375	Full	
376	Full	
377	Full	
378	Full	
379	Full	
380	Walkout	
381	Walkout	
382	Walkout	
383	Walkout	
384	Walkout	
385	Walkout	
386	Walkout	
387	Walkout	
388	Walkout	
389	Walkout	
390	Walkout	
391	Walkout	

RECORD DRAWING
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Date: 6/2/2022
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Title: Engineer
Firm: Engineering Solutions

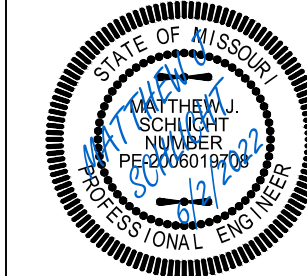
Master Drainage Plan 2 of 3:

Spot Elevations
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project: PARK RIDGE
Issue Date: March 17, 2021

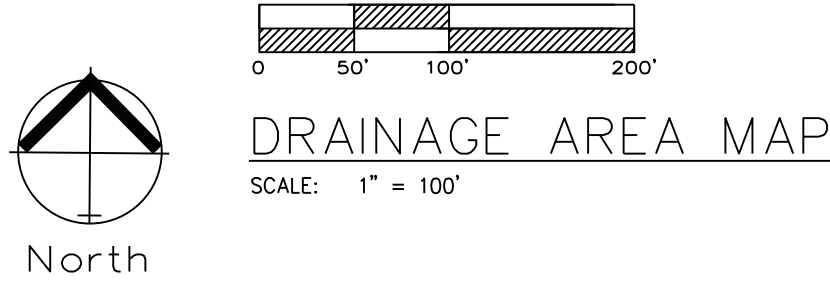
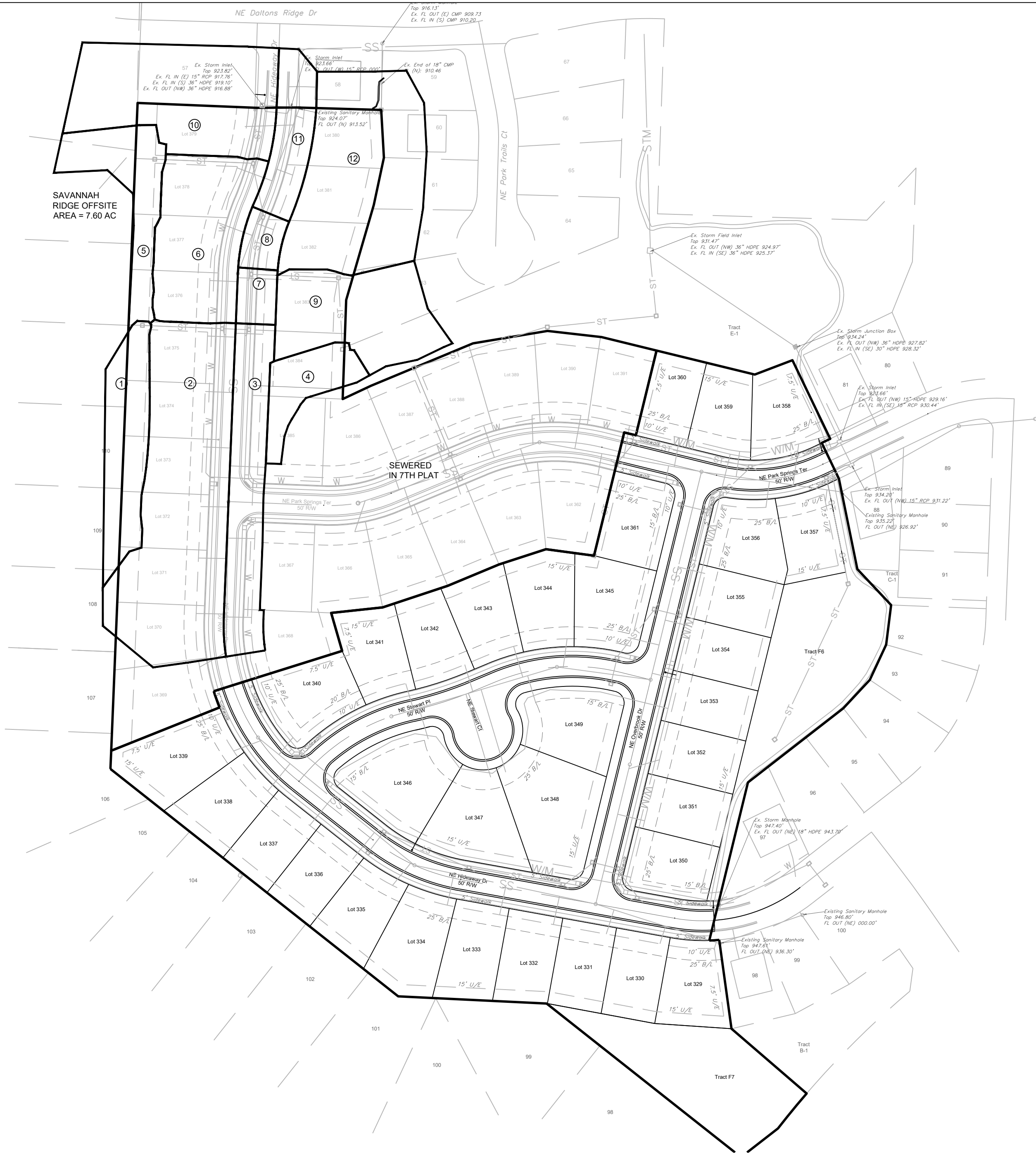
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821



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

REVISIONS
6/2/2022 As-Built



APWA STORM DRAINAGE "TC" COMPUTATIONS FOR : PARK RIDGE 8TH PLAT																																																
yellow areas are self computing overwrite if necessary				Surface types:				Asph/Conc	Bus/Com	Dirt	Grass/Park	Lake	MultFam	SnglFam	Undev	Other																																
				SURFACE CODES				A	B	D	G	L	M	S	U	Z																																
				"C" Values				0.90	0.87	0.60	0.30	0.90	0.66	0.51	0.3	TC COMPUTATION																																
				TOTAL WATERSHED				Overwrite Length - DnElev or Slope if necessary				SURFACE CODE				P=Paved U=Unpaved if necessary				Cal Overland				Cal Channel				Total				AREA																
				OVERLAND FLOW - 100' MAX				SURFACE CODE				P=Paved U=Unpaved if necessary				FLOW - FIRST REACH				Flow T(I)				Used Min 5 Max 15 T(I)				Cal One T(T)				Cal Two T(T)				Total T(T)				AREA								
AREA	TOTAL SQ.FT.	TOTAL ACRES	WTRSHD LENGTH	UP ELEV	DN ELEV	SURFACE CODE	"C" VALUE	OVRLND LENGTH	UP ELEV	DN ELEV	SLOPE %	CHANNEL LENGTH	UP ELEV	DN ELEV	SLOPE %	VELOCITY F/S	Flow T(I)	Used Min 5 Max 15 T(I)	Cal One T(T)	Cal Two T(T)	Total T(T)	POST	AREA	TOTAL SQ.FT.	TOTAL ACRES	WTRSHD LENGTH	UP ELEV	DN ELEV	SURFACE CODE	"C" VALUE	OVRLND LENGTH	UP ELEV	DN ELEV	SLOPE %	CHANNEL LENGTH	UP ELEV	DN ELEV	SLOPE %	VELOCITY F/S	Flow T(I)	Used Min 5 Max 15 T(I)	Cal One T(T)	Cal Two T(T)	Total T(T)	POST	AREA		
1	14966.00	0.34	339.00	978.00	953.50	Z	0.51	67.0	978.0	974.00	6.0	U	272.0	974.0	953.5	7.54	4.4	4.8	5.0	1.0	0.0	6.0	1	1	14966.00	0.34	339.00	978.00	953.50	Z	0.51	67.0	978.0	974.00	6.0	U	272.0	974.0	953.5	7.54	4.4	4.8	5.0	1.0	0.0	6.0	1	1
2	50289.00	1.15	496.00	975.70	943.00	Z	0.51	100.0	975.7	972.00	3.7	P	396.0	972.0	943.0	7.32	5.5	6.9	6.9	1.2	0.0	8.1	2	2	50289.00	1.15	496.00	975.70	943.00	Z	0.51	100.0	975.7	972.00	3.7	P	396.0	972.0	943.0	7.32	5.5	6.9	6.9	1.2	0.0	8.1	2	2
3	19199.00	0.44	447.00	973.00	943.00	Z	0.51	36.0	973.0	972.00	2.8	P	411.0	972.0	943.0	7.06	5.4	4.5	5.0	1.3	0.0	6.3	3	3	19199.00	0.44	447.00	973.00	943.00	Z	0.51	36.0	973.0	972.00	2.8	P	411.0	972.0	943.0	7.06	5.4	4.5	5.0	1.3	0.0	6.3	3	3
4	8486.00	0.19	202.00	960.00	930.50	Z	0.51	100.0	960.0	948.50	11.5	U	102.0	948.5	930.5	17.65	6.8	4.7	5.0	0.3	0.0	5.3	4	4	8486.00	0.19	202.00	960.00	930.50	Z	0.51	100.0	960.0	948.50	11.5	U	102.0	948.5	930.5	17.65	6.8	4.7	5.0	0.3	0.0	5.3	4	4
5	13330.00	0.31	219.00	963.00	951.00	Z	0.51	100.0	963.0	955.50	7.5	P	119.0	955.5	951.0	3.78	4.0	5.4	5.4	0.5	0.0	5.9	5	5	13330.00	0.31	219.00	963.00	951.00	Z	0.51	100.0	963.0	955.50	7.5	P	119.0	955.5	951.0	3.78	4.0	5.4	5.4	0.5	0.0	5.9	5	5
6	23746.00	0.55	286.00	953.00	925.00	Z	0.51	100.0	953.0	941.00	12.0	P	186.0	941.0	925.0	8.60	6.0	4.6	5.0	0.5	0.0	5.5	6	6	23746.00	0.55	286.00	953.00	925.00	Z	0.51	100.0	953.0	941.00	12.0	P	186.0	941.0	925.0	8.60	6.0	4.6	5.0	0.5	0.0	5.5	6	6
7	3478.00	0.08	99.00	943.00	936.00	Z	0.51	36.0	943.0	942.00	2.8	P	63.0	942.0	936.0	9.52	6.3	4.5	5.0	0.2	0.0	5.2	7	7	3478.00	0.08	99.00	943.00	936.00	Z	0.51	36.0	943.0	942.00	2.8	P	63.0	942.0	936.0	9.52	6.3	4.5	5.0	0.2	0.0	5.2	7	7
8	3558.00	0.08	103.00	936.70	929.00	Z	0.51	36.0	936.7	935.30	3.9	P	67.0	935.3	929.0	9.40	6.2	4.1	5.0	0.2	0.0	5.2	8	8	3558.00	0.08	103.00	936.70	929.00	Z	0.51	36.0	936.7	935.30	3.9	P	67.0	935.3	929.0	9.40	6.2	4.1	5.0	0.2	0.0	5.2	8	8
9	21596.00	0.50	156.00	937.00	926.50	Z	0.51	91.0	937.0	931.00	6.6	U	65.0	931.0	926.5	6.92	4.2	5.4	5.4	0.3	0.0	5.7	9	9	21596.00	0.50	156.00	937.00	926.50	Z	0.51	91.0	937.0	931.00	6.6	U	65.0	931.0	926.5	6.92	4.2	5.4	5.4	0.3	0.0	5.7	9	9
10	32151.00	0.74	262.00	941.00	924.00	Z	0.51	100.0	941.0	931.00	10.0	U	162.0	931.0	924.0	4.32	3.4	4.9	5.0	0.8	0.0	5.8	10	10	32151.00	0.74	262.00	941.00	924.00	Z	0.51	100.0	941.0	931.00	10.0	U	162.0	931.0	924.0	4.32	3.4	4.9	5.0	0.8	0.0	5.8	10	10
11	10143.00	0.23	171.00	929.50	924.00	Z	0.51	36.0	929.5	928.00	4.2	P	135.0	928.0	924.0	2.96	3.5	4.0	5.0	0.6	0.0	5.6	11	11	10143.00	0.23	171.00	929.50	924.00	Z	0.51	36.0	929.5	928.00	4.2	P	135.0	928.0	924.0	2.96	3.5	4.0	5.0	0.6	0.0	5.6	11	11
12	37543.00	0.86	271.00	937.00	912.50	Z	0.51	36.0	931.0	925.00	16.7	U	235.0	925.0	912.5	5.32	3.7	2.5	5.0	1.1	0.0	6.1	12	12	37543.00	0.86	271.00	937.00	912.50	Z	0.51	36.0	931.0	925.00	16.7	U	235.0	925.0	912.5	5.32	3.7	2.5	5.0	1.1	0.0	6.1	12	12

RECORD DRAWING
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"100-00 100.10", "14-00% 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: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions

Master Drainage Map 3 of 3:
Drainage Area Map
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

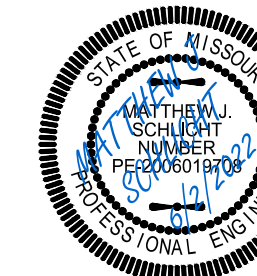
Project: PARK RIDGE
Issue Date: March 17, 2021

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

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



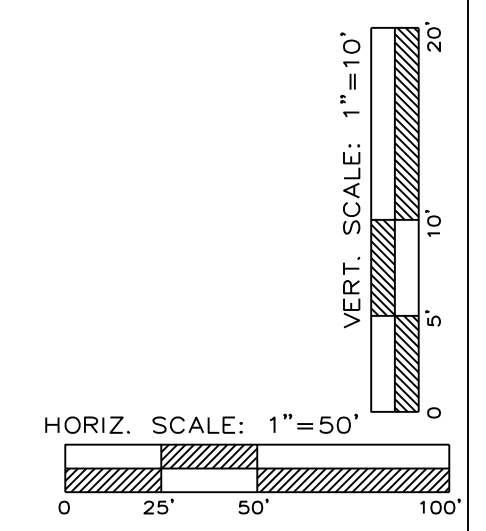
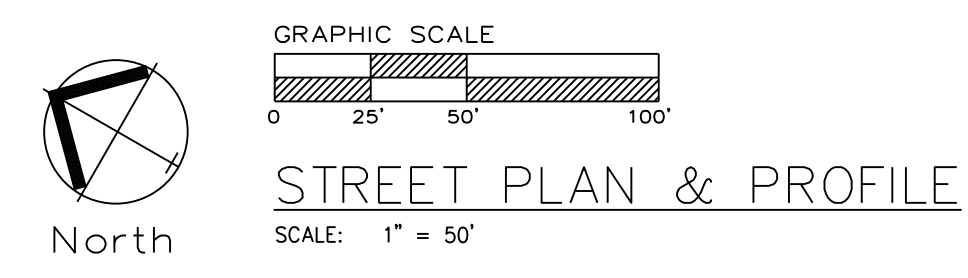
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849



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

REVISIONS
6/2/2022 As-Built

REV. 11-14-19



RECORD DRAWING

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Date: 6/2/2022

Certified by: Matthew J. Schlicht

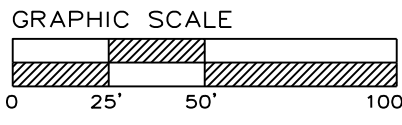
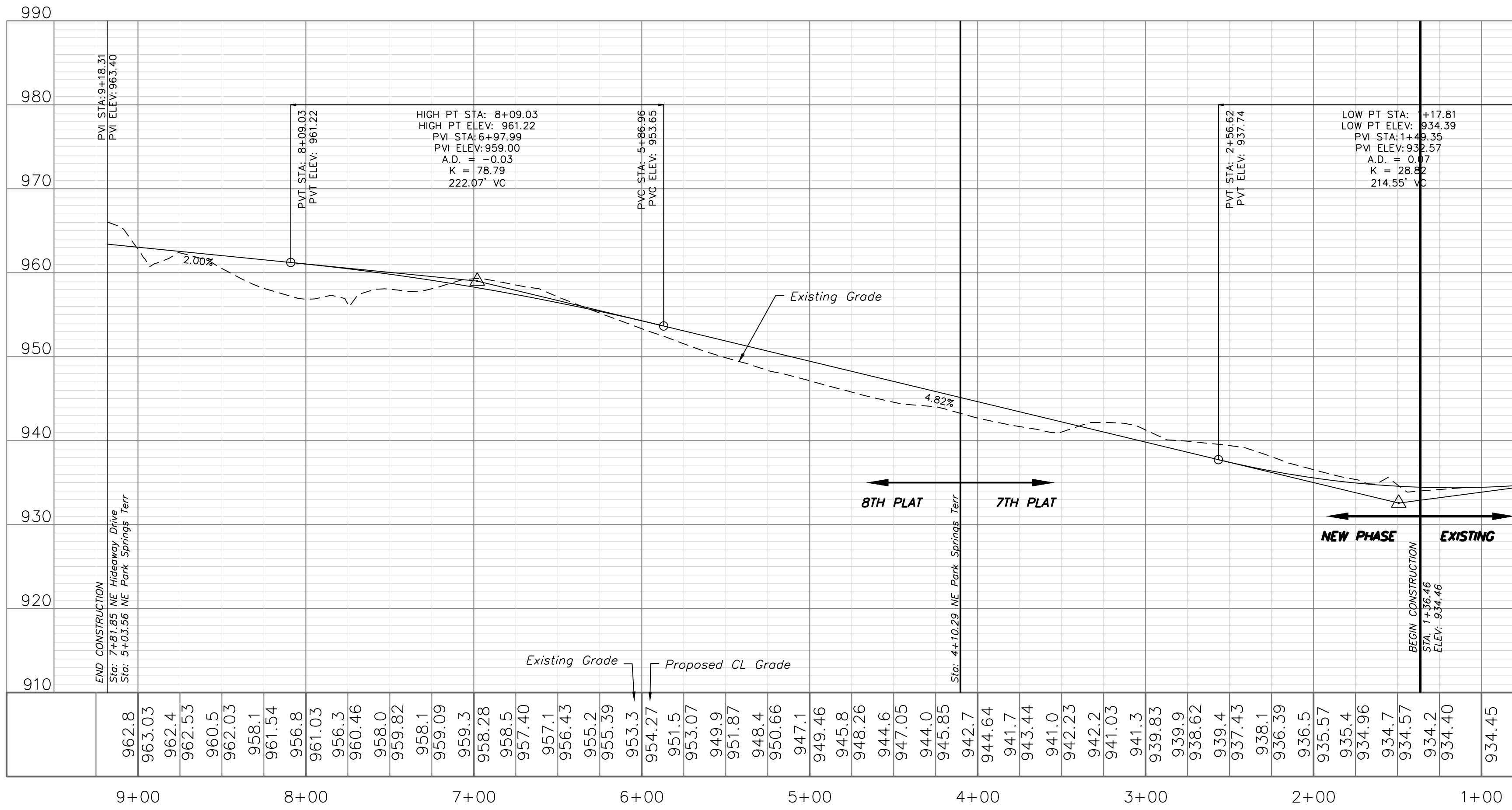
Title: Engineer

Firm: Engineering Solutions

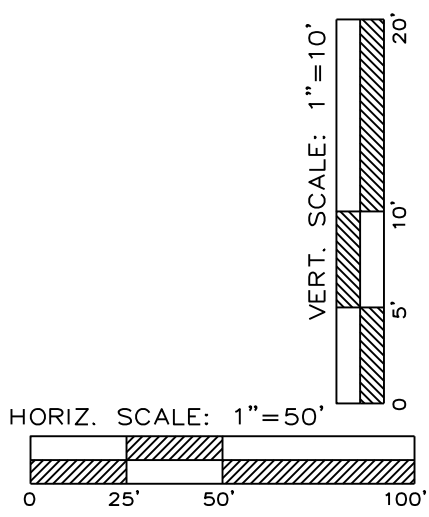


NE PARK SPRINGS TERRACE

Revised street name.



STREET PLAN & PROFILE
SCALE: 1" = 50'



RECORD DRAWING
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Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions

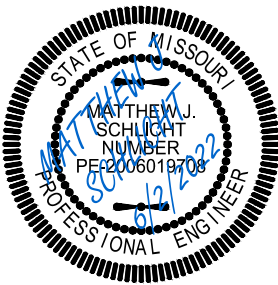


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project:
PARK RIDGE
Issue Date:
March 17, 2021

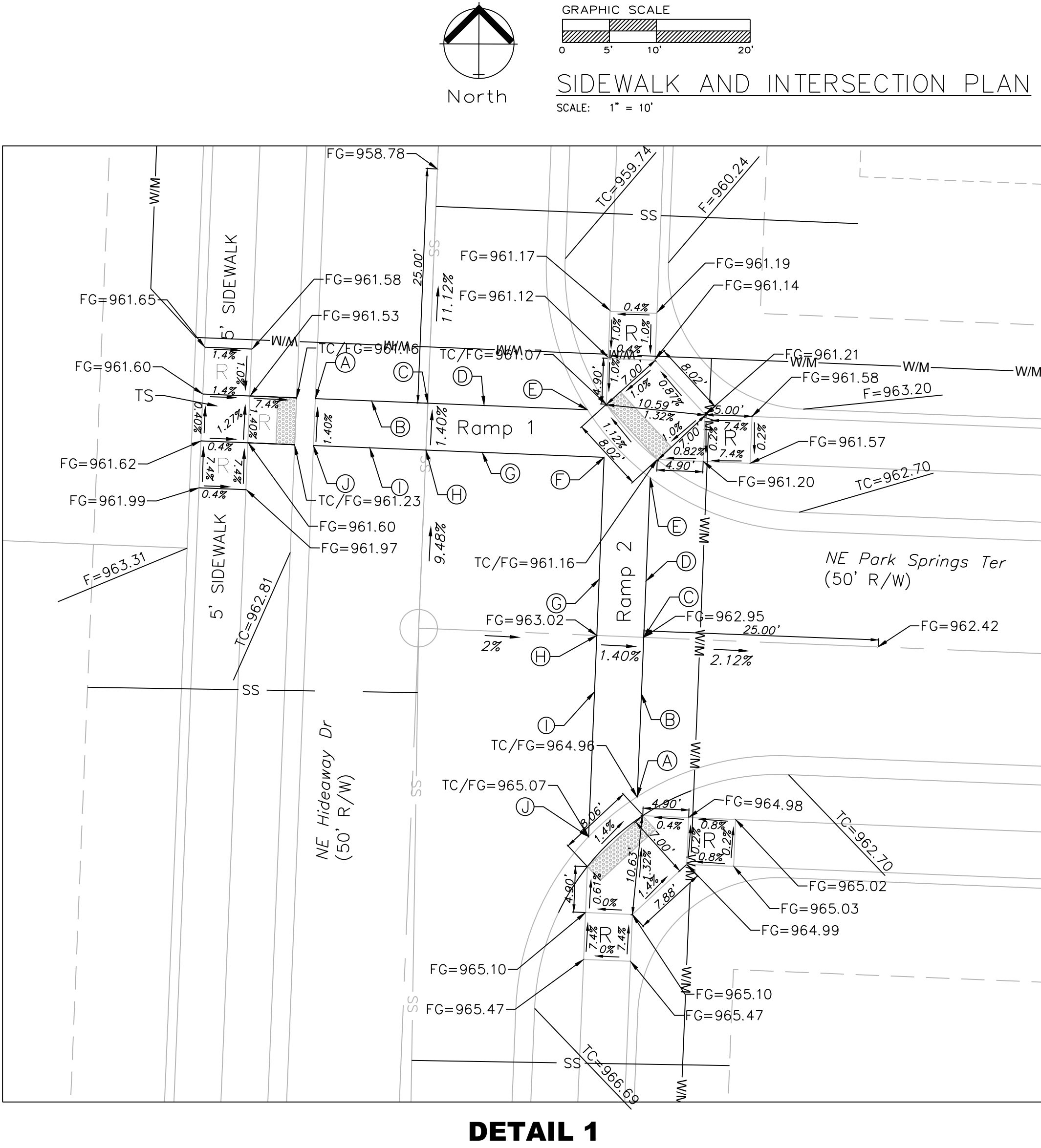
Street Plan and Profile
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



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

REVISIONS
6/2/2022 As-Built

SPOT ELEVATION TABLE		
Spot	Ramp 1 Elevation	Ramp 2 Elevation
A	961.16	964.96
B	961.44	963.07
C	961.56	962.95
D	961.44	962.83
E	961.07	961.16
F	961.16	961.16
G	961.51	962.90
H	961.63	963.02
I	961.51	963.14
J	961.23	965.07



RECORD DRAWING

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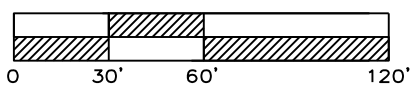
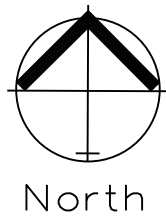
"400-00 100-10", "4-00% 1.15% slope", or "8-inch HDPE-PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 6/2/2022

Certified by: Matthew J. Schlicht

Title: Engineer

Firm: Engineering Solutions



STORM SEWER GENERAL LAYOUT

SCALE: 1" = 60'

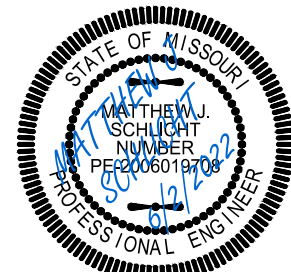


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 200500319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project:
PARK RIDGE
Issue Date:
March 17, 2021

Storm Sewer General Layout
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



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

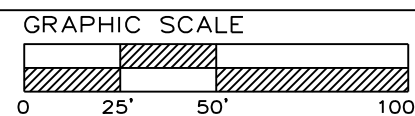
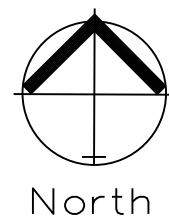
REVISIONS
6/2/2022 As-Built

C. 300

RECORD DRAWING
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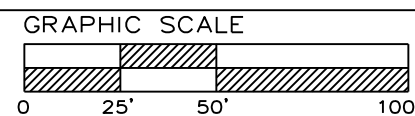
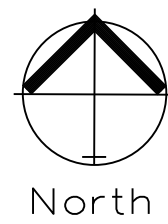
Date: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions





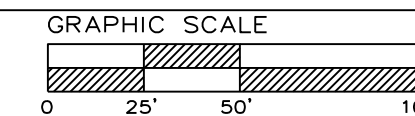
STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

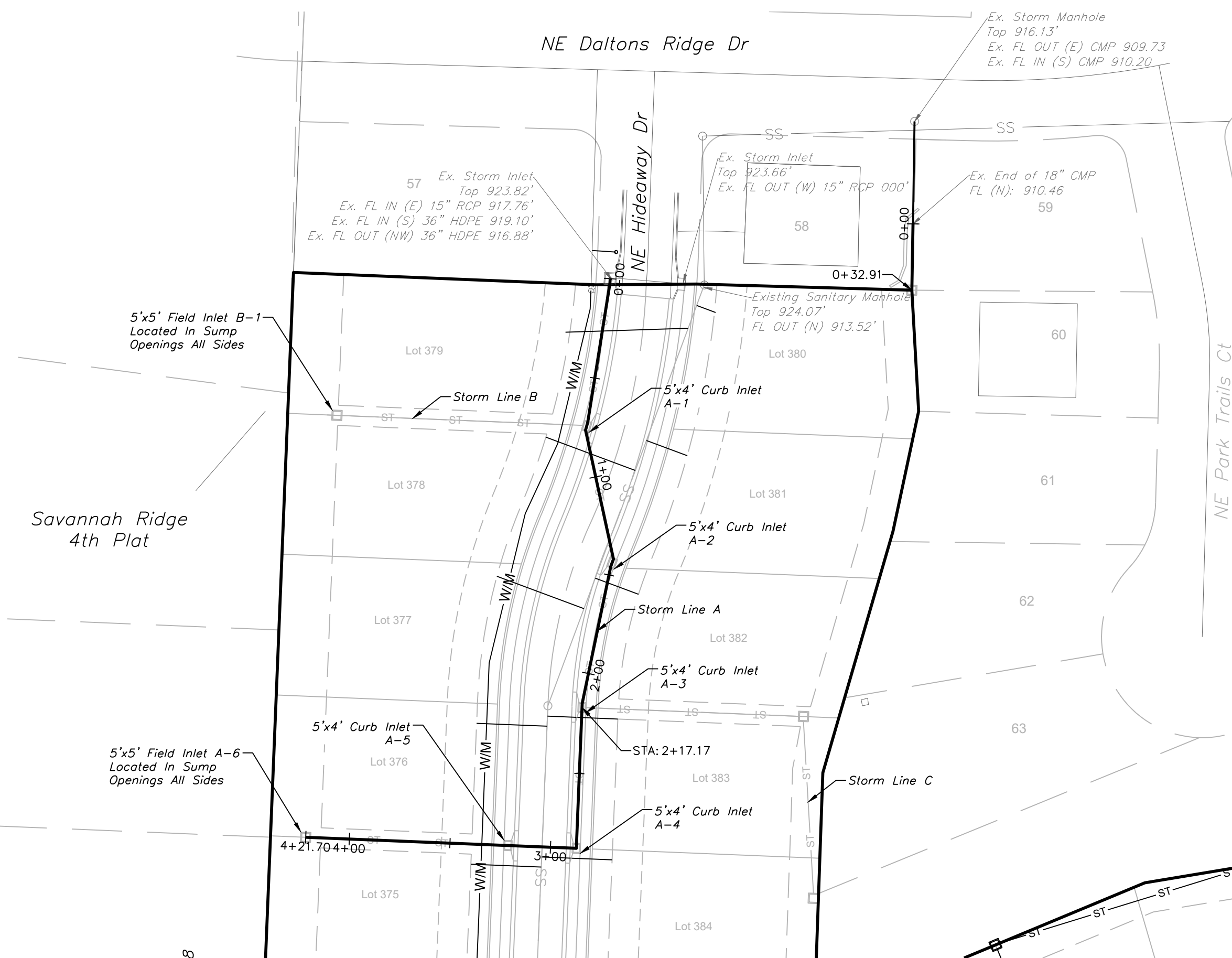


STORM SEWER PLAN & PROFILE

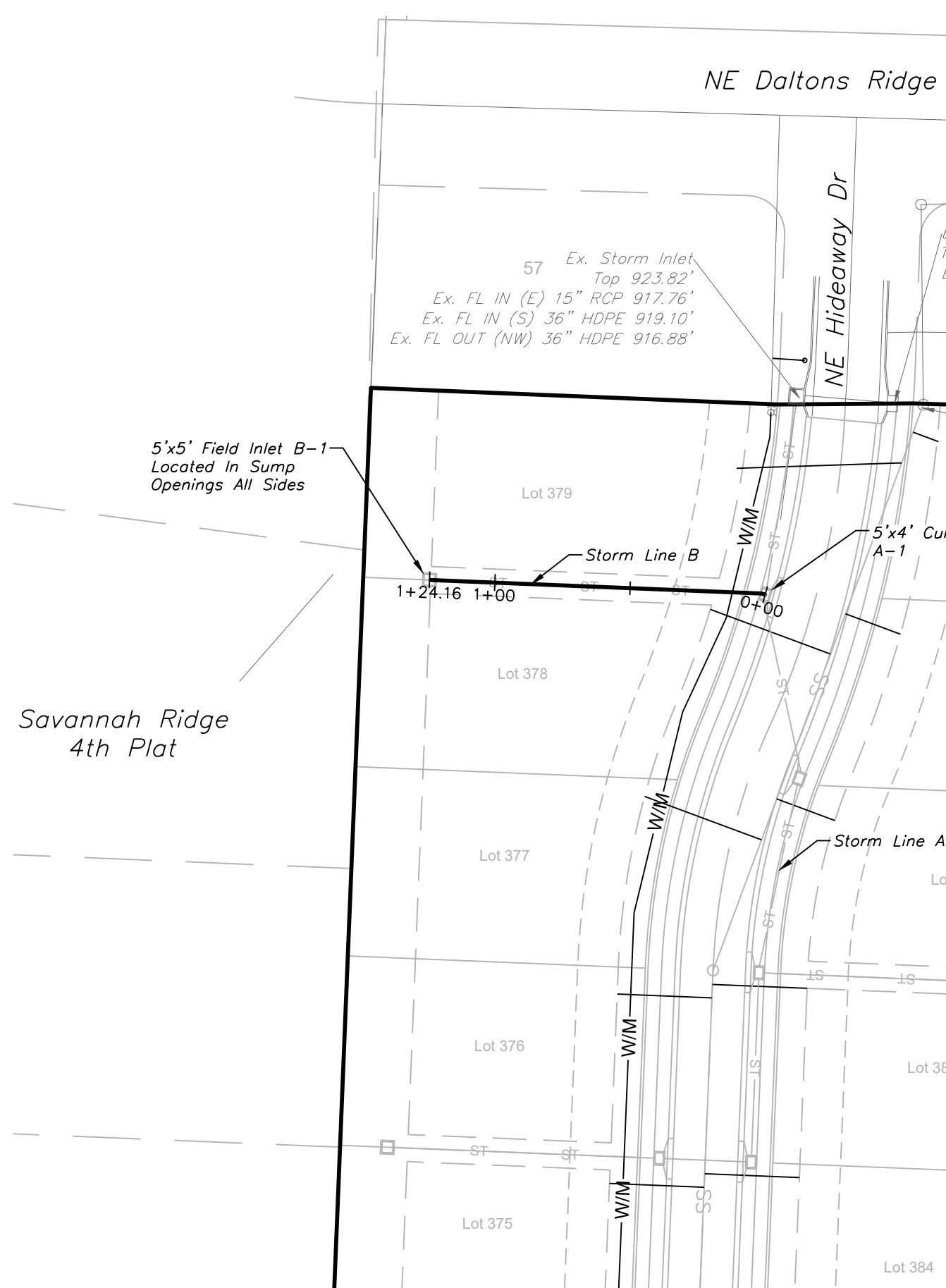
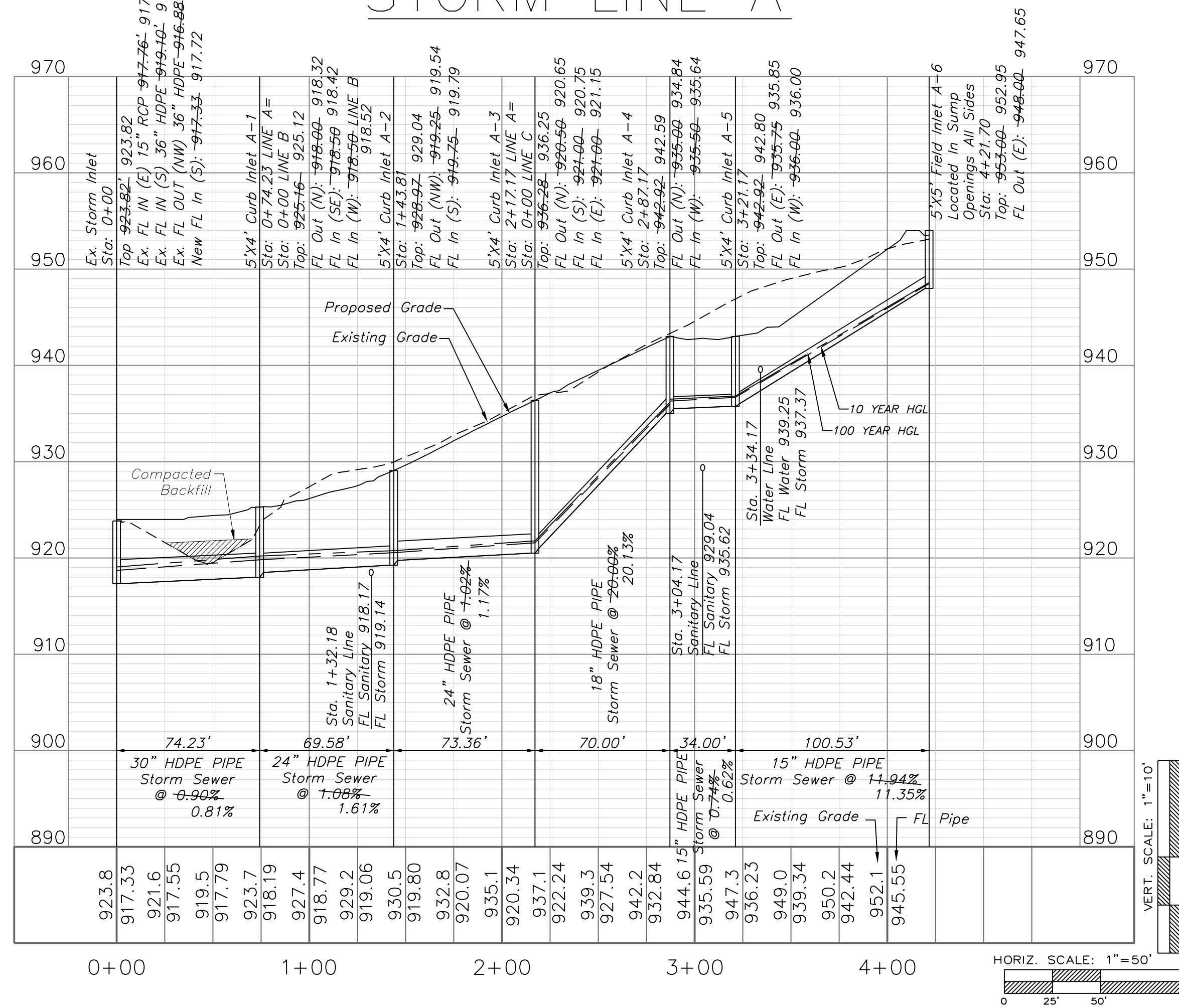
SCALE: 1" = 50'

Note:

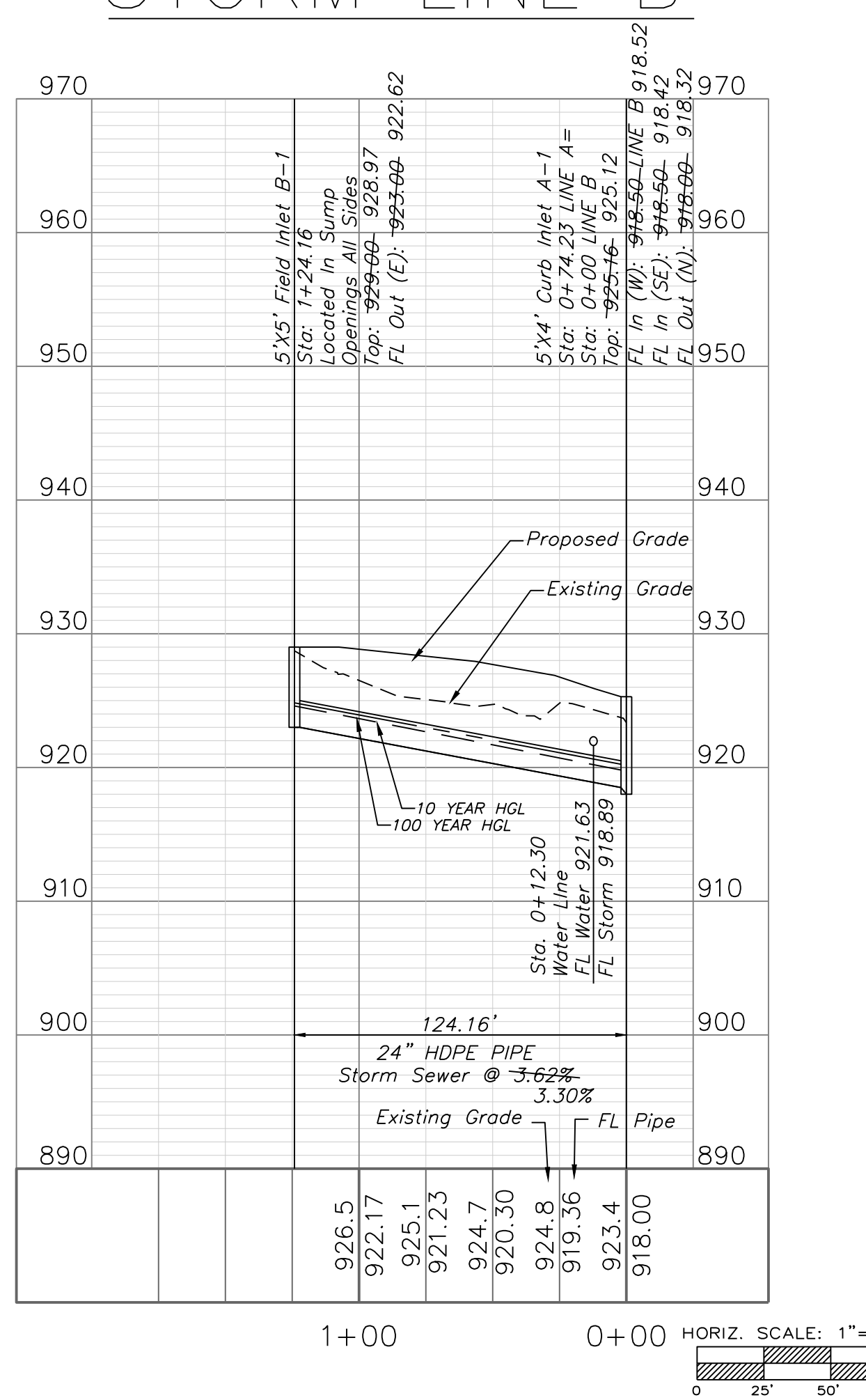
Compacted Fill shall be placed to a minimum 18" above the top of the pipe prior to installation.



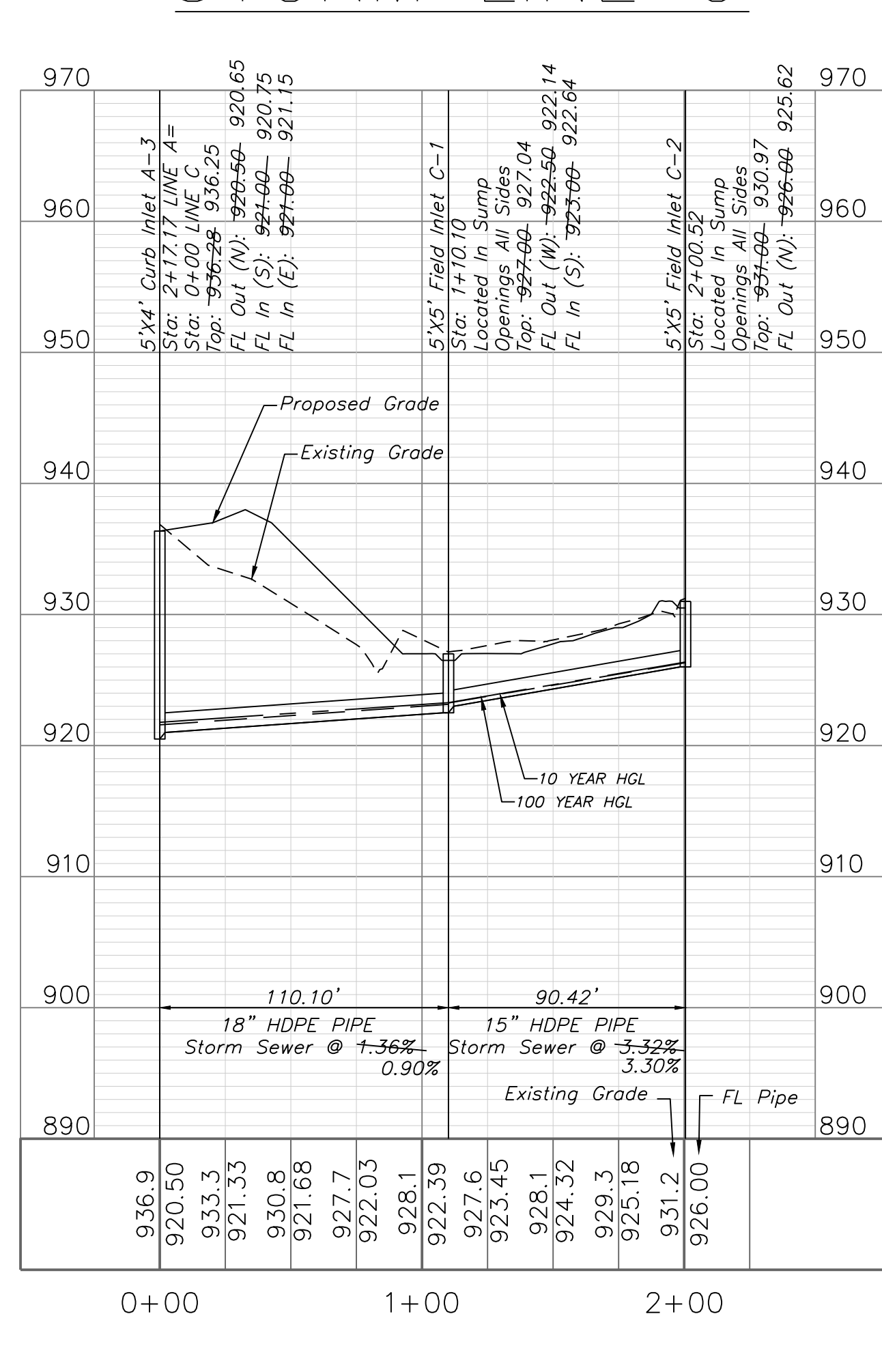
STORM LINE A



STORM LINE B



STORM LINE C



RECORD DRAWING
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"1400-00 100.10", "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: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions

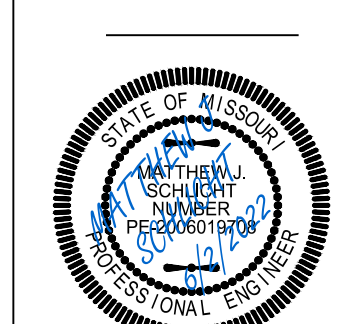


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005003119-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project:
PARK RIDGE
Issue Date:
March 17, 2021

Storm Sewer Plan and Profile
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-114335

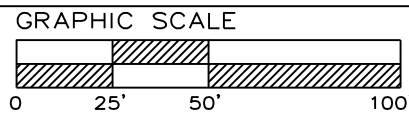
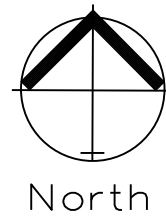
REVISIONS

6/2/2022 As-Built

C.301

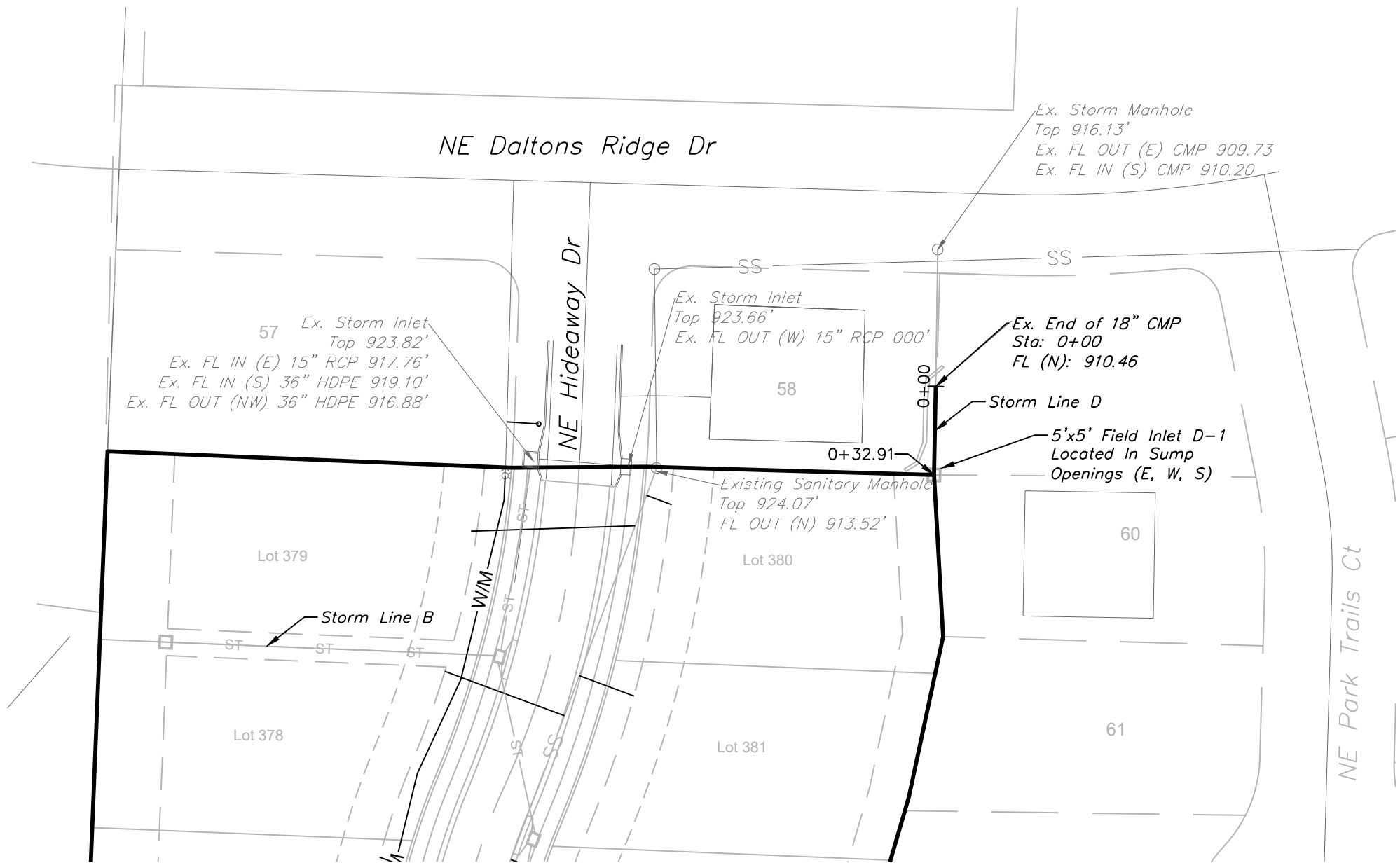
Note:

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

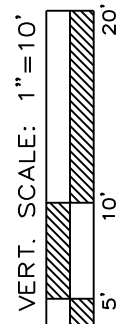
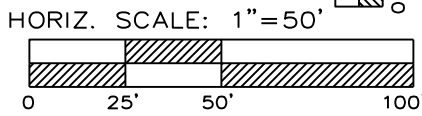
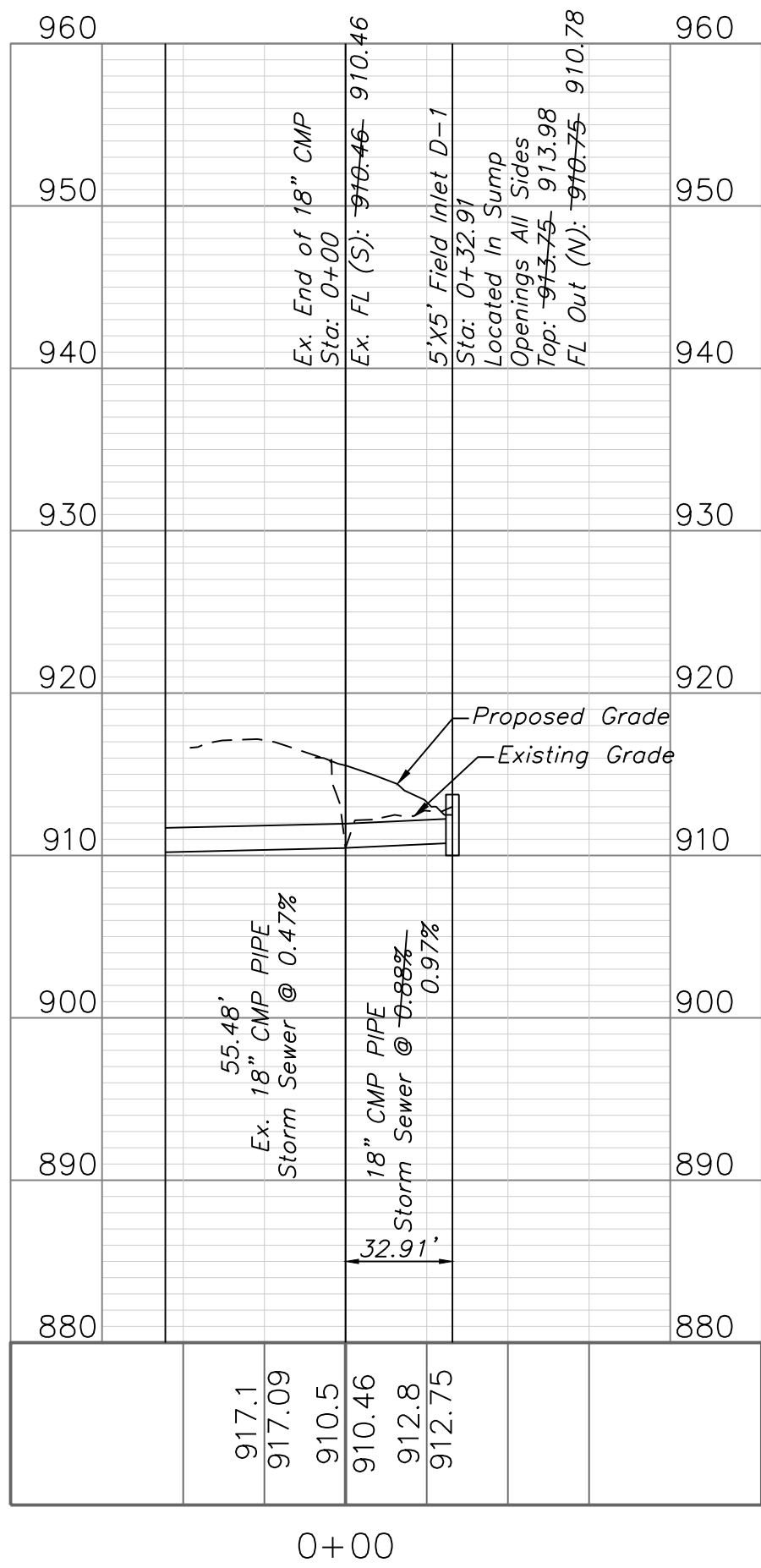


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE D



RECORD DRAWING

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Date: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions

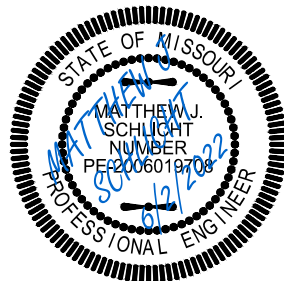


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project:
PARK RIDGE
Issue Date:
March 17, 2021

Storm Sewer Plan and Profile
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-114335

REVISIONS
6/2/2022 As-Built

10-YEAR INLET																						
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)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str. No.
EX	A-1	0.55	5.5	7.10	0.51	1.99	3.09	0.94	4.14	Curb	10	5	0.048	2	0.05	0.02	0.23	0.22	7.85	0.23	8.58	Offsite
A-1	A-2	0.08	5.2	7.18	0.51	0.29	1	0.39	0.9	Curb	10	5	0.095	2	0.05	0.02	0.13	0.12	2.9	0.13	3.69	Offsite
A-2	A-3	0.08	5.2	7.18	0.51	0.29	1.11	0.41	1	Curb	10	5	0.095	2	0.05	0.02	0.14	0.12	3.12	0.14	3.89	A-2
A-3	A-4	0.44	6.3	6.88	0.51	1.54	0	0.43	1.11	Curb	10	5	0.095	2	0.05	0.02	0.14	0.13	3.36	0.14	4.11	A-3
A-4	A-5	1.15	8.1	6.44	0.51	3.78	0	0.69	3.09	Curb	10	5	0.095	2	0.05	0.02	0.19	0.18	5.89	0.19	6.47	A-1
A-5	A-6	0.34	6.0	6.96	0.51	1.21	0	1.21	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.07	n/a	n/a	0.07	3.69	Sag
A-1	B-1	7.91	15.0	5.21	0.51	21.01	0	21.01	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.5	n/a	n/a	0.5	24.83	Sag
A-3	C-1	0.50	5.7	7.04	0.51	1.80	0	1.8	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.1	n/a	n/a	0.1	4.81	Sag
C-1	C-2	0.19	5.3	7.15	0.51	0.69	0	0.69	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.05	n/a	n/a	0.05	2.55	Sag
EX	D-1	0.86	6.1	6.93	0.51	3.04	0	3.04	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.14	n/a	n/a	0.14	6.84	Sag

10-YEAR 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)
EX	A-1	74.23	0.55	11.24	0.51	0.28	5.73	5.5	15.2	5.2	29.66	29.66	50.65	9.16	30	0.90	917.33	918.00	918.71	919.85	923.82	925.16
A-1	A-2	69.58	0.08	2.78	0.51	0.04	1.42	5.2	8.5	6.3	8.99	8.99	35.25	4.61	24	1.44	918.50	919.50	919.85	920.57	925.16	928.97
A-2	A-3	73.36	0.08	2.70	0.51	0.04	1.38	5.2	8.3	6.4	8.79	8.79	29.73	6.24	24	1.02	919.75	920.50	920.57	921.56	928.97	936.28
A-3	A-4	70.00	0.44	1.93	0.51	0.22	0.98	6.3	8.2	6.4	6.32	6.32	61.05	7.90	18	20.00	921.00	935.00	921.56	935.97	936.28	942.92
A-4	A-5	34.00	1.15	1.49	0.51	0.59	0.76	8.1	8.1	6.4	4.89	4.89	7.20	5.75	15	0.74	935.50	935.75	936.26	936.65	942.92	942.92
A-5	A-6	100.53	0.34	0.34	0.51	0.17	0.17	6.0	6.0	7.0	1.21	1.21	29.00	2.54	15	11.94	936.00	948.00	936.65	948.43	942.92	953.00
A-1	B-1	124.16	7.91	7.91	0.51	4.03	4.03	15.0	15.0	5.2	21.01	21.01	55.98	8.45	24	3.62	918.50	923.00	919.85	924.64	925.16	929.00
A-3	C-1	110.10	0.50	0.69	0.51	0.26	0.35	5.7	5.7	7.0	2.48	2.48	15.93	3.97	18	1.36	921.00	922.50	921.56	923.10	936.28	927.00
C-1	C-2	90.42	0.19	0.19	0.51	0.10	0.10	5.3	5.3	7.2	0.69	0.69	15.29	4.52	15	3.32	923.00	926.00	923.18	926.33	927.00	931.00
EX	D-1	88.65	0.86	0.86	0.51	0.44	0.44	6.1	6.1	6.9	3.04	3.04	7.40	4.04	18	0.50	909.92	910.36	910.58	911.03	913.00	913.00

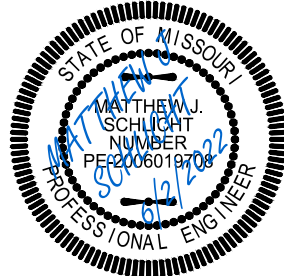
100-YEAR INLET																						
D.S. Str.	Str. No.	Area	InletTime	Int.	RunoffCoeff.	Q=CIA	Q Carry-over	QCaptured	QBypassed	JunctType	CurbHeight	CurbLength	GutterSlope	GutterWidth	CrossSlope, Sw	CrossSlope, Sx	InletDepth	BypassDepth	BypassSpread	GutterDepth	GutterSpread	BypassLine No.
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(cfs)	(cfs)		(in)	(ft)	(ft/ft)	(ft)	(ft/ft)	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
EX	A-1	0.55	5.5	9.66	0.51	2.71	4.39	1.12	5.98	Curb	10	5	0.048	2	0.05	0.02	0.26	0.24	9.19	0.26	9.87	Offsite
A-1	A-2	0.08	5.2	9.76	0.51	0.40	1.5	0.48	1.42	Curb	10	5	0.095	2	0.05	0.02	0.15	0.14	3.91	0.15	4.61	Offsite
A-2	A-3	0.08	5.2	9.76	0.51	0.40	1.6	0.5	1.5	Curb	10	5	0.095	2	0.05	0.02	0.15	0.14	4.04	0.15	4.73	A-2
A-3	A-4	0.44	6.3	9.40	0.51	2.11	0	0.51	1.6	Curb	10	5	0.095	2	0.05	0.02	0.16	0.14	4.19	0.16	4.87	A-3
A-4	A-5	1.15	8.1	8.86	0.51	5.20	0	0.81	4.39	Curb	10	5	0.095	2	0.05	0.02	0.21	0.2	6.93	0.21	7.47	A-1
A-5	A-6	0.34	6.0	9.49	0.51	1.65	0	1.65	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.09	n/a	n/a	0.09	4.54	Sag
A-1	B-1	7.91	15.0	7.30	0.51	29.45	0	29.45	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.62	n/a	n/a	0.62	31.11	Sag
A-3	C-1	0.50	5.7	9.59	0.51	2.45	0	2.45	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.12	n/a	n/a	0.12	5.92	Sag
C-1	C-2	0.19	5.3	9.73	0.51	0.94	0	0.94	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.06	n/a	n/a	0.06	3.13	Sag
EX	D-1	0.86	6.1	9.46	0.51	4.15	0	4.15	0	Dp-Curb	6	20	Sag	....	0.02	0.02	0.17	n/a	n/a	0.17	8.42	Sag

100-YEAR 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)
EX	A-1	74.23	0.55	11.24	0.51	0.28	5.73	5.5	15.2	7.3	41.64	41.64	50.65	10.37	30	0.90	917.33	918.00	919.06	920.16	923.82	925.16
A-1	A-2	69.58	0.08	2.78	0.51	0.04	1.42	5.2	8.5	8.7	12.40	12.40	35.25	5.18	24	1.44	918.50	919.50	920.16	920.76	925.16	928.97
A-2	A-3	73.36	0.08	2.70	0.51	0.04	1.38	5.2	8.3	8.8	12.11	12.11	29.73	6.72	24	1.02	919.75	920.50	920.76	921.75	928.97	936.28
A-3	A-4	70.00	0.44	1.93	0.51	0.22	0.98	6.3	8.2	8.8	8.70	8.70	61.05	7.94	18	20.00	921.00	935.00	921.75	936.14	936.28	942.92
A-4	A-5	34.00	1.15	1.49	0.51	0.59	0.76	8.1	8.1	8.9	6.73	6.73	7.20	6.41	15	0.74	935.50	935.75	936.46	936.79	942.92	942.92
A-5	A-6	100.53	0.34	0.34	0.51	0.17	0.17	6.0	6.0	9.5	1.65	1.65	29.00	2.76	15	11.94	936.00	948.00	936.79	948.51	942.92	953.00
A-1	B-1	124.16	7.91	7.91	0.51	4.03	4.03	15.0	15.0	7.3	29.45	29.45	55.98	10.13	24	3.62	918.50	923.00	920.16	924.85	925.16	929.00
A-3	C-1	110.10	0.50	0.69	0.51	0.26	0.35	5.7	5.7	9.6	3.38	3.38	15.93	4.00	18	1.36	921.00	922.50	921.75	923.20	936.28	927.00
C-1	C-2	90.42	0.19	0.19	0.51	0.10	0.10	5.3	5.3	9.7	0.94	0.94	15.29	4.94	15	3.32	923.00	926.00	923.21	926.38	927.00	931.00
EX	D-1	88.65	0.86	0.86	0.51	0.44	0.44	6.1	6.1	9.5	4.15	4.15	7.40	4.31	18	0.50	909.92	910.36	910.72	911.16	913.00	913.00

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Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions



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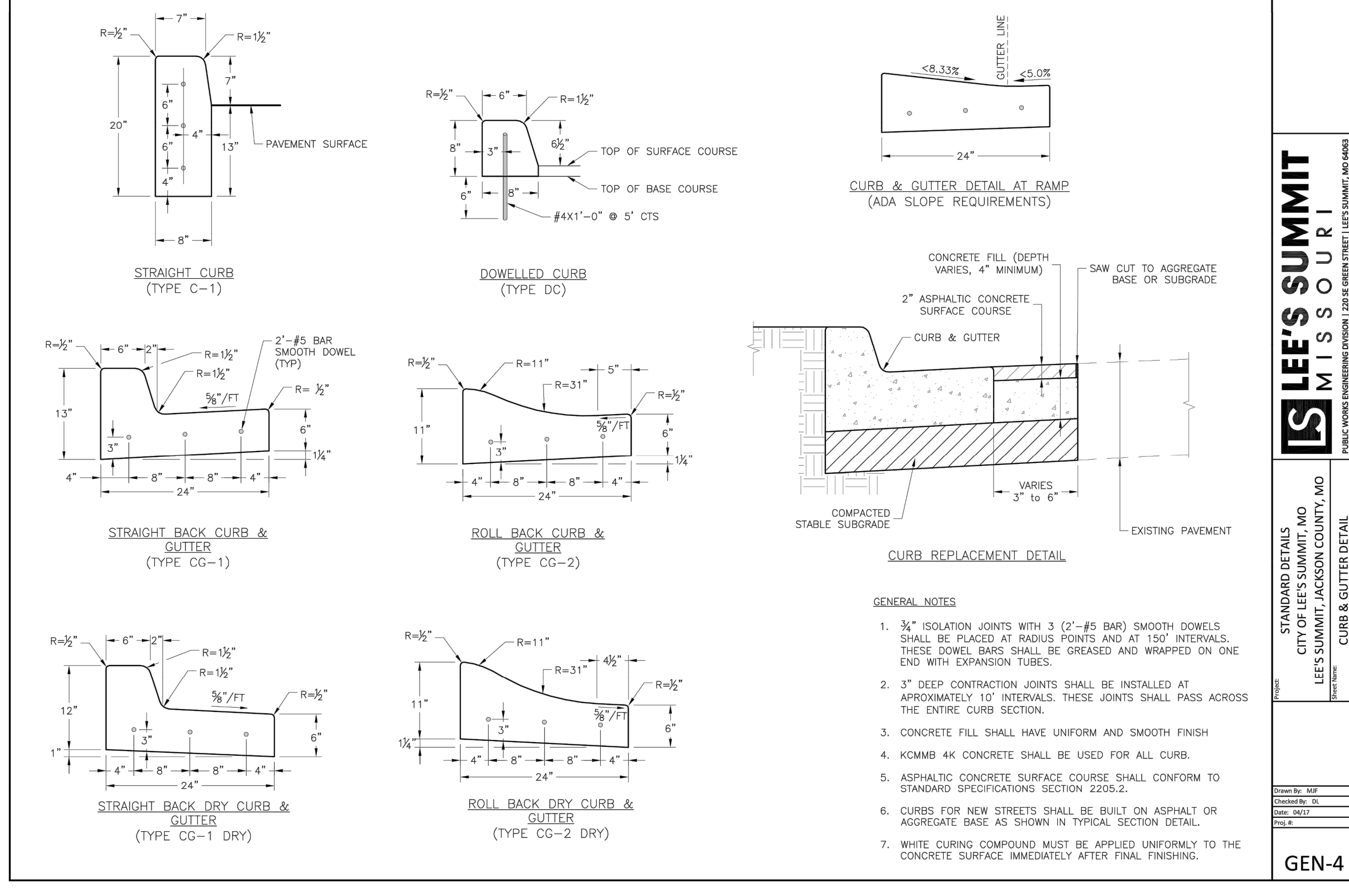
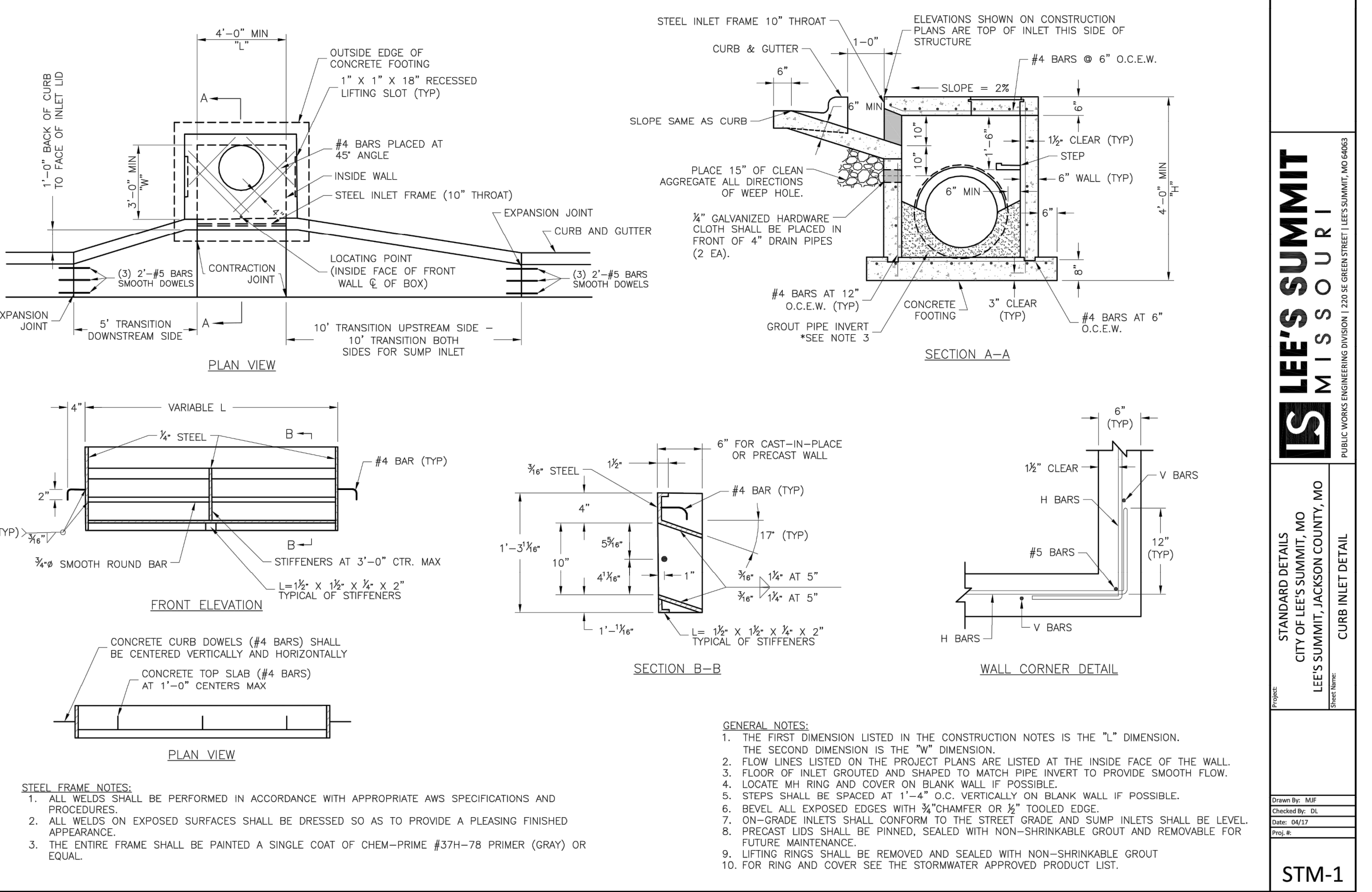
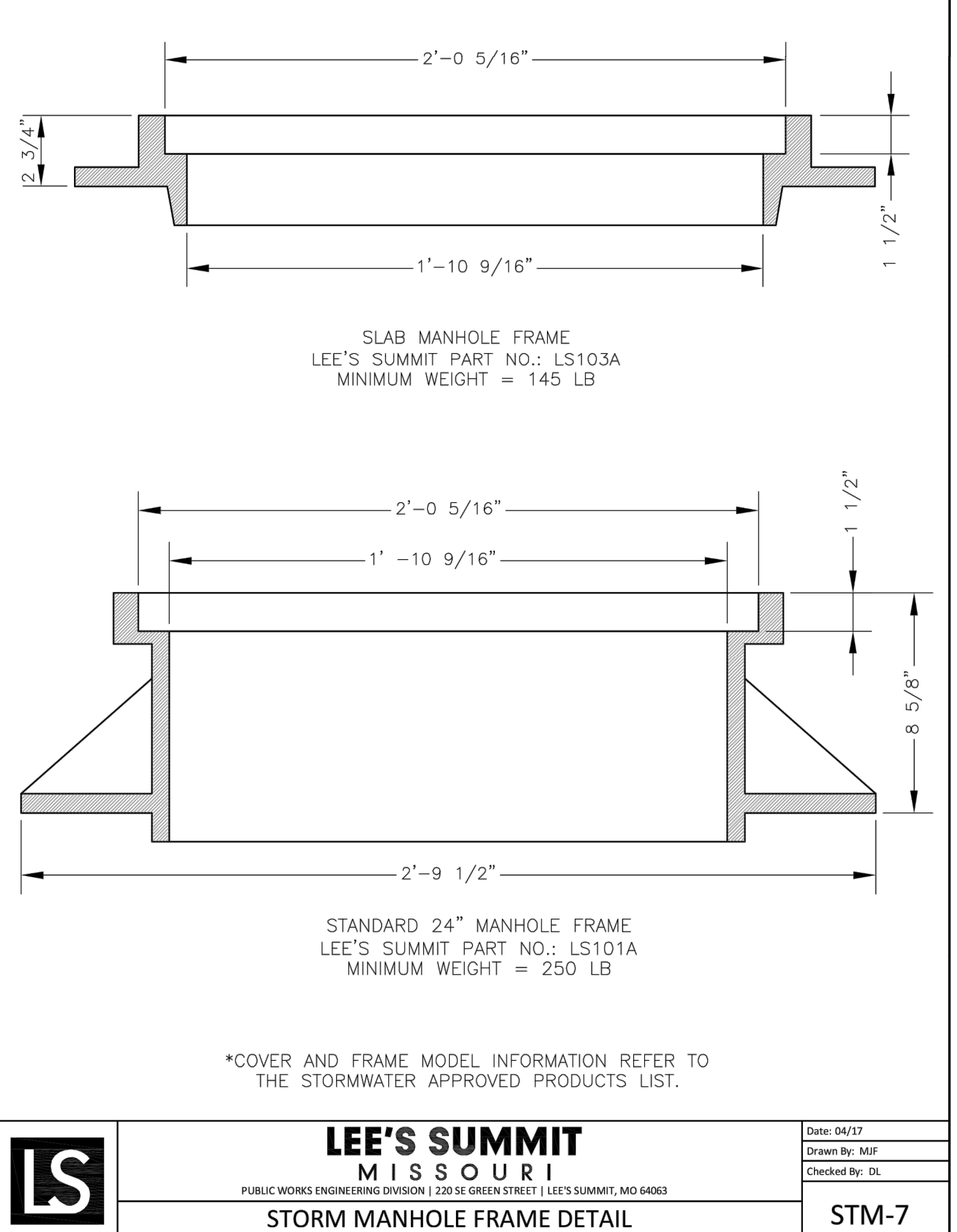
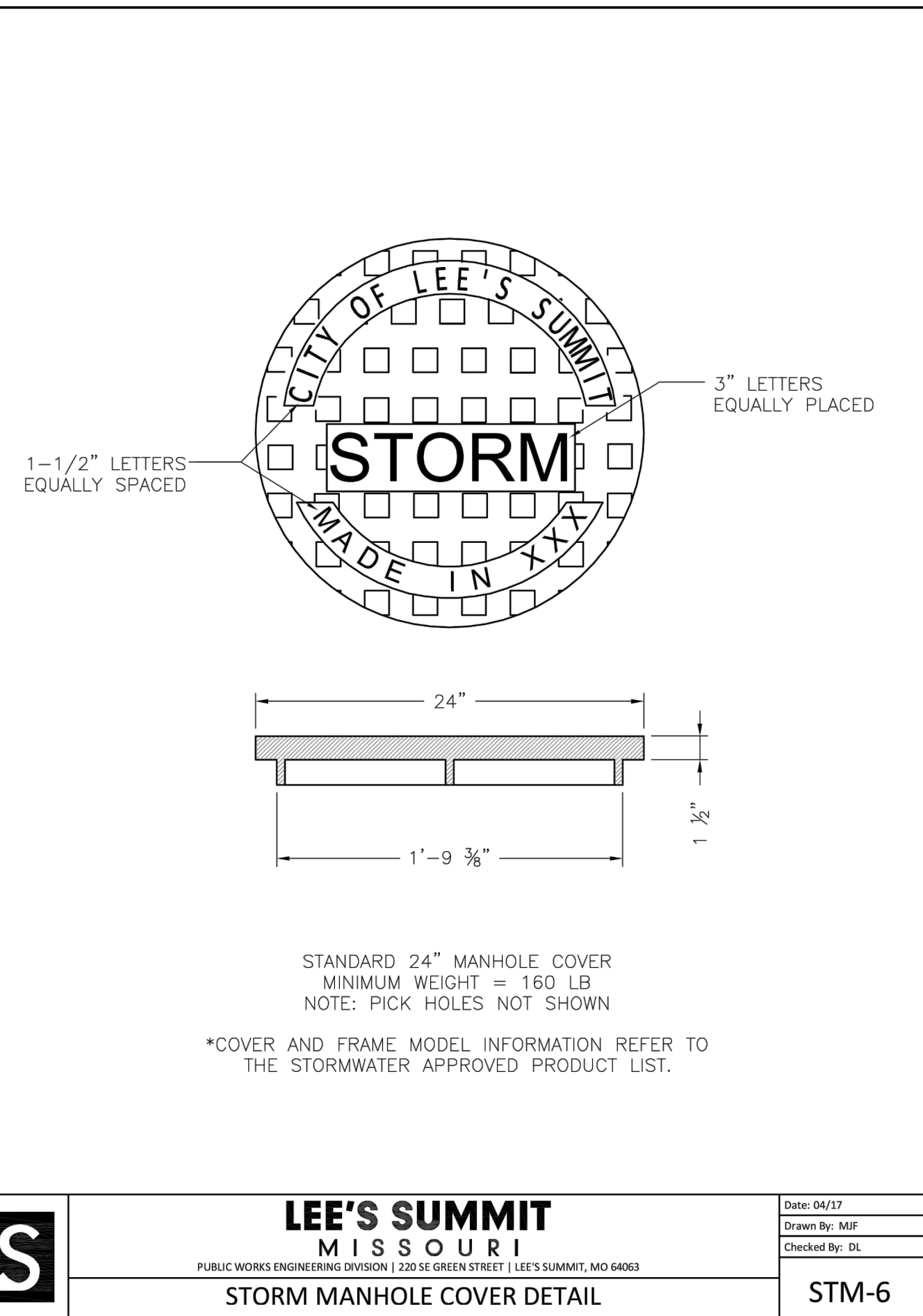
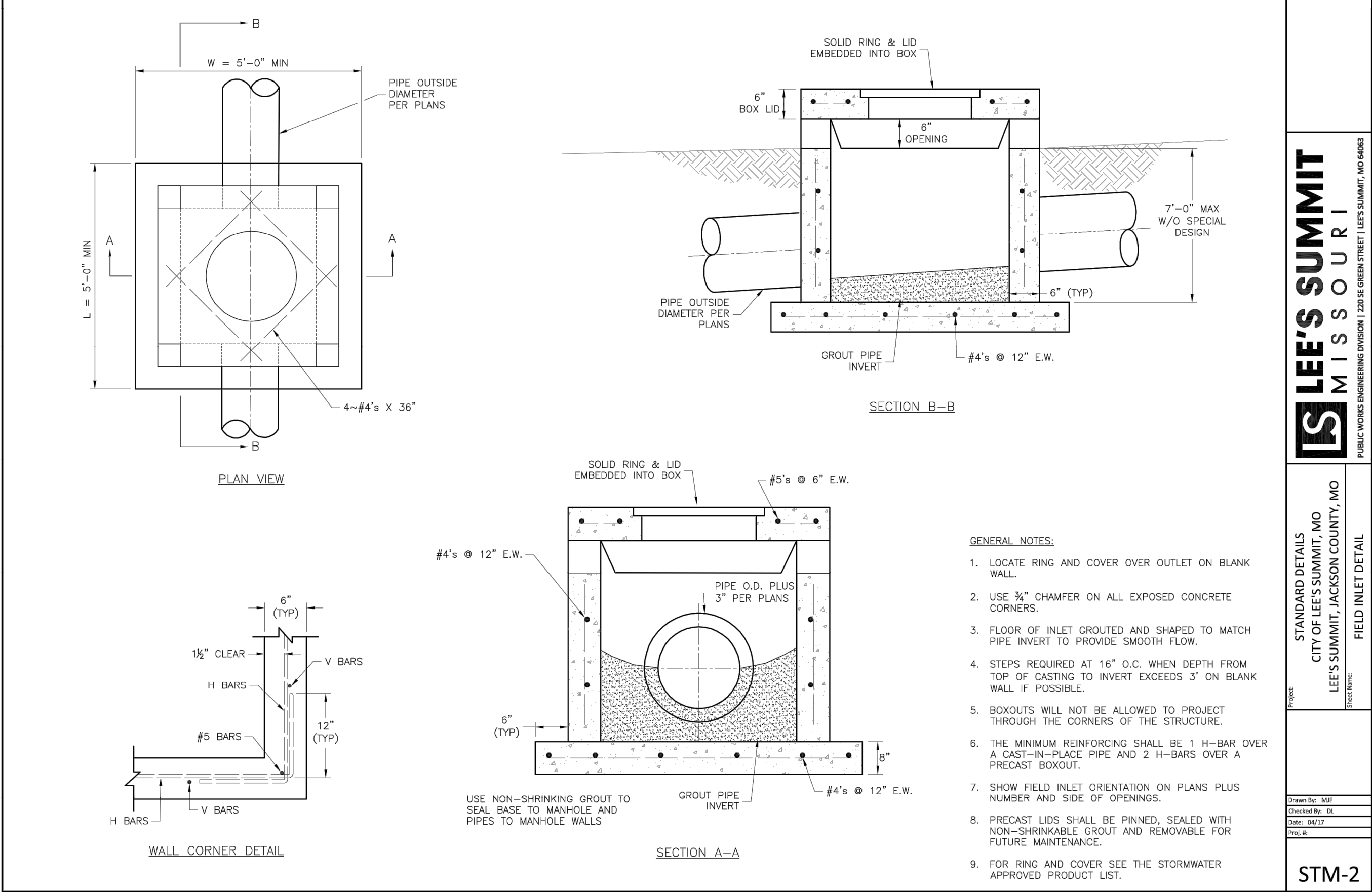
REVISIONS
6/2/2022 As-Built

Project: PARK RIDGE
Issue Date: March 17, 2021

Storm Sewer Tables 10 and 100 Year
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
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Oklahoma
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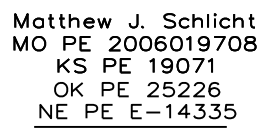
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Date: 6/2/2022
Certified by: Matthew J. Schlicht
Title: Engineer
Firm: Engineering Solutions



PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Construction Details
PARK RIDGE 8TH PLAT
Section 9, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri



BLANKET UNDERDRAIN A - A(PIPE)
SCALE: 1" = 1'-0"

BLANKET UNDERDRAIN A - A(EDGE)
SCALE: 1" = 1'-0"

PIPE UNDERDRAIN B - B
SCALE: 1" = 1'-0"

EDGE UNDERDRAIN B - B
SCALE: 1" = 1'-0"

UNDERDRAIN AT MEDIAN NOSE
SCALE: 1/2" = 1'-0"

OUTLET PIPE C - C
SCALE: 1" = 1'-0"

PIPE UNDERDRAIN BEHIND CURB D - D
SCALE: 1" = 1'-0"

EDGE UNDERDRAIN BEHIND CURB D - D
SCALE: 1" = 1'-0"

EDGE UNDERDRAIN TEMPORARY SUPPORT DETAIL
SCALE: 1" = 1'-0"

ROCK EXCAVATION/UNDERDRAIN
SCALE: 1" = 5'-0"

UNDERDRAIN LAYOUT
SCALE: 1" = 5'-0"

Underdrain Notes:

- All roadway exceptions in rock will be underdrain no less than 18" for the full width of the roadway as shown.
- In areas where underdrains are not required, underdrain and overdrain in situations and shall be brought to within 6" of the subgrade line with properly compacted crushed stone, shot, and/or rock banks. The remaining 6" shall conform to Standard Specifications Section 2202.
- Layers of earth or shale shall not be permitted for backfill up to the bottom of the crushed stone.
- A minimum of 12" of select soil (topsoil) shall be placed on exposed rock cut or in slopes outside the limits of the roadway. All rock and shale slopes shall be benchcut @ maximum 2" vertical intervals prior to placement of select soil.
- Proposed underdrain pipe layout, flowline elevations, inlet connection points, and details shall be approved prior to construction by the City Engineer.
- Where pipe underdrains are used, all underdrain outlet pipes shall be sealed with non-permeable pipe. All seal pipes shall be tied into the nearest storm sewer line as approved. Where edge underdrains are used, all underdrain outlet pipes shall be sealed with manufacturer joints approved by the City Engineer. All connections between pipes and edge connectors or catch basins shall be made with 2' minimum length of pipe.
- All underdrain pipes shall be installed with the following internal down.
- Blanket underdrains shall be placed on bedrock unless otherwise directed by the City Engineer. Underdrain and overdrains in situations and shall be brought to within 6" of the subgrade line with properly compacted crushed stone, shot, rock and/or risk rubble.
- All filter fabric used for pipe underdrain construction shall conform to Standard Specifications Section 2203.6.
- The Contractor may, at his option, use either pipe underdrain or edge underdrain, but shall not mix underdrain types within any underdrain system.
- All edge underdrains shall be held in the center of the trench by mechanical methods while placing granular backfill. See detail this sheet. Alternate methods may be used with prior approval by the City Engineer.
- Blanket underdrain aggregate, pipe underdrain aggregate, pipe underdrain, edge underdrain and outlet pipe shall conform to Standard Specifications Section 2203.6.

ITEM	DESCRIPTION	QUANTITY	UNIT
1	6" Blanket Underdrain Aggregate (2" min. @ 10" max.)	100	cu yd
2	6" Blanket Underdrain (2" min. @ 10" max.)	100	lin. ft.
3	6" Pipe Underdrain (2" min. @ 10" max.)	100	lin. ft.
4	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
5	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
6	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
7	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
8	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
9	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
10	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
11	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
12	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
13	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
14	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
15	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
16	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
17	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
18	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
19	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
20	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
21	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
22	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
23	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
24	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
25	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
26	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
27	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
28	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
29	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
30	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
31	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
32	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
33	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
34	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
35	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
36	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
37	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
38	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
39	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
40	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
41	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
42	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
43	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
44	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
45	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
46	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
47	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
48	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
49	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
50	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
51	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
52	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
53	6" Edge Underdrain (2" min. @ 10" max.)	100	lin. ft.
54	6" Edge Underdrain (2" min. @		