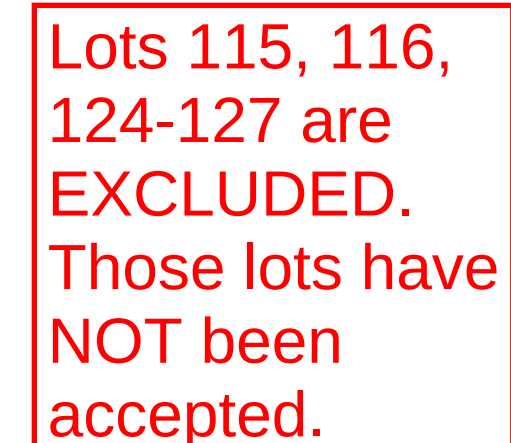
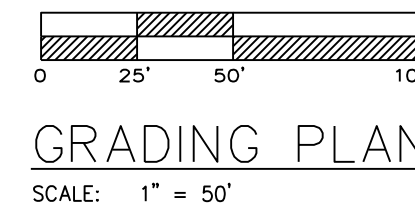


1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and 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 completion
7. Contractor responsible for all density testing of roadway subgrade and granular base.

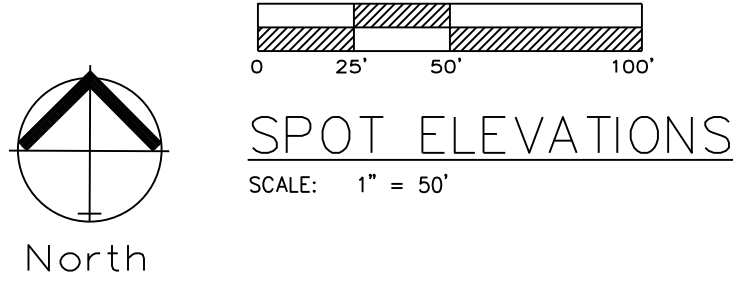
[illegible]

NOTE: Swale should be lined with "Straw with Net" turf reinforcement (Curlex Blanket or Eqv.) .
Per Table 5607-1 in APWA Manual



ACCEPTED - MDP
This Master Drainage Plan (MDP) is accepted for basic conformance to the approved grading design and may be used for the review of individual lot grading plans.

900.10
~~900.00~~ Indicates data replaced with "As-Built" information. All other data is as designed and has not been field verified.



Lot Number	Basement Type	MBOE Lt.	MBOE Rt.
109	Daylight	1022.00	1022.00
110	Daylight	1022.00	1021.03
111	Daylight	1021.03	1019.59
112	Daylight/Walkout	1019.59	1019.59
113	Daylight/Walkout	1018.15	1015.07
114	Walkout	1015.07	1015.50
115	Walkout	1015.50	1017.24
116	Daylight	1017.24	1023.47
117	Full	1023.47	1025.82
118	Full	1025.82	1027.60
119	Full	1027.60	1030.89
120	Full	1030.89	1032.21
121	Full	1032.21	1029.70
122	Full/Daylight	1029.70	1027.31
123	Full/Daylight	1027.31	1024.64
124	Full/Daylight	1024.64	1021.20
125	Full/Daylight	1021.20	1019.90
126	Full/Daylight	1019.90	1017.25
127	Full	1017.25	1016.25
128	Daylight	1016.25	1012.82
129	Daylight	1012.82	1012.82
130	Daylight	1012.82	1012.82
131	Daylight/Walkout	1012.82	1014.75
132	Daylight/Walkout	1014.75	1018.35
133	Daylight/Walkout	1018.35	1020.65
134	Daylight/Walkout	1020.65	1024.00
135	Daylight/Walkout	1024.00	1027.70
136	Daylight	1027.70	1027.70

"AS-BUILT"

900.10
900.00 Indicates data replaced with "As-Built" information. All other data is as designed and has not been field verified.

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

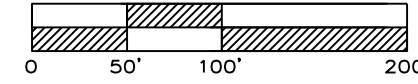
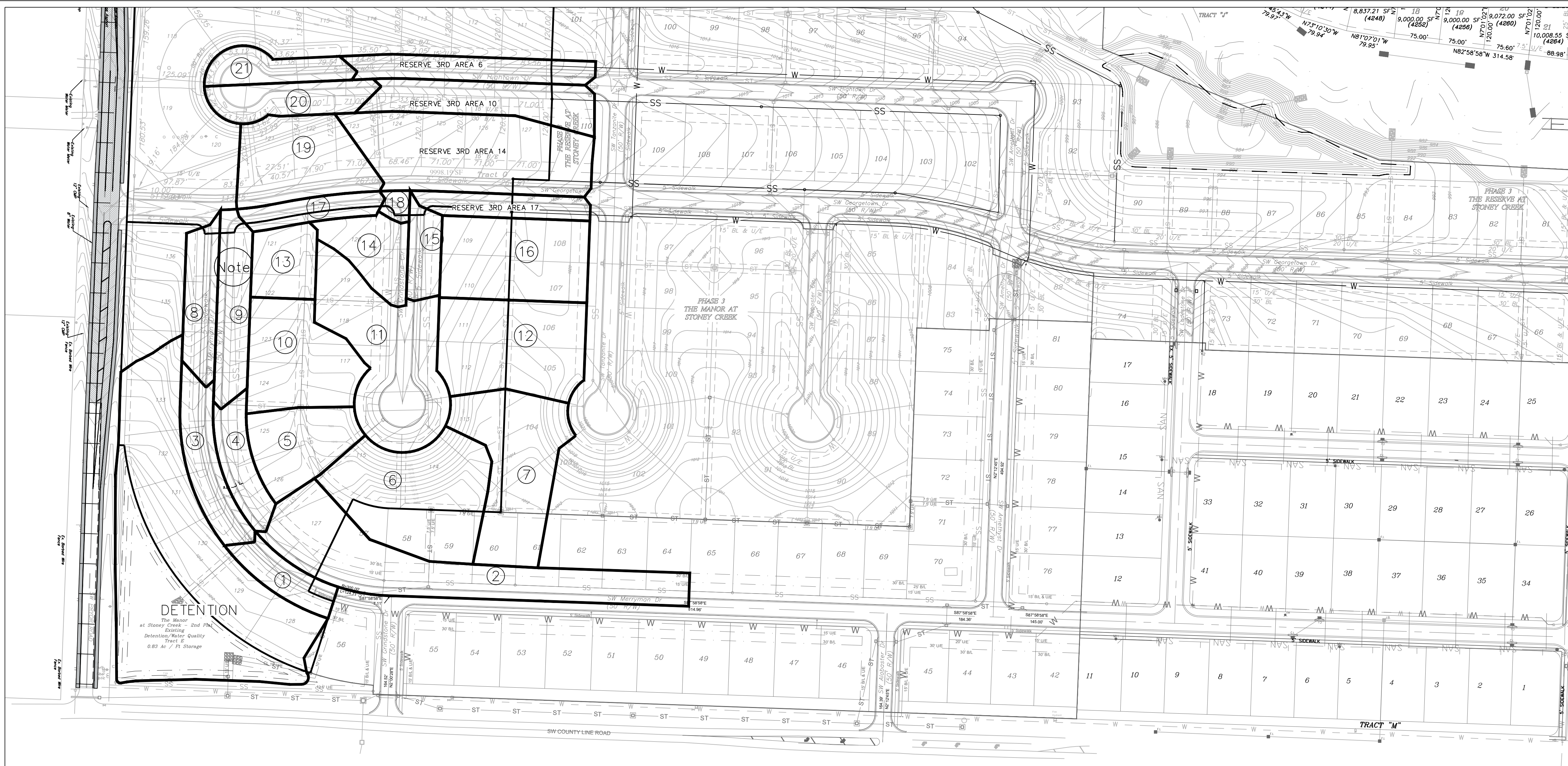
Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500319-D
Kansas
Engineering E-1895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

The Manor at Stoney Creek - 4th Plat
Lee's Summit, Jackson County, Missouri

Project: MANOR AT STONEY CREEK 4TH PLAT
August 29, 2018

Master Drainage Plan 2 of 3:
Spot Elevations
Construction Plans for:
The Manor at Stoney Creek - 4th Plat
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
REVISIONS
5/21/2021 As-Built
REV. 11-14-19
C. 201



DRAINAGE AREA MAP

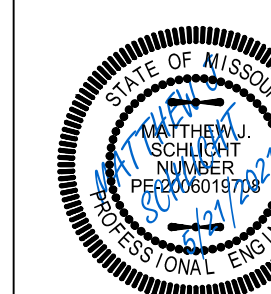
SCALE: 1" = 100'

Drainage Area	Area Sq. Ft.	Area Ac.
1	10057.25	0.23
2	56598.12	1.30
3	16170.5	0.37
4	11883.94	0.27
5	20519.85	0.47
6	43928.99	1.01
7	37720.92	0.87
8	13781.71	0.32
9	16826.56	0.39
10	29334.69	0.67
11	44019.84	1.01
12	37589.96	0.86
13	12668.28	0.29
14	14547.61	0.33
15	8364.55	0.19
16	33381.6	0.77
17	9224.51	0.21
18	2238.52	0.05
19	28448.12	0.65
20	15039.79	0.35
21	11369.09	0.26
Detention	102259.96	2.35

APWA STORM DRAINAGE "TC" COMPUTATIONS FOR : The Manor at Stoney Creek - 4th Plat																								
yellow areas are self computing overwrite if necessary				Surface types: Asph/ConcBus/Com Dirt Grass/Park Lake MultFam SnglFam Undev Other																				
SURFACE CODES				"C" Values 0.90 0.87 0.60 0.30 0.90 0.66 0.51 0.3																				
TOTAL WATERSHED				Overwrite Length - DnElev or Slope if necessary							SURFACE CODES P=Paved U=Unpaved if necessary								TC COMPUTATION					
				OVERLAND FLOW - 100' MAX							CHANNEL FLOW - FIRST REACH								Cal Overland Flow T(I)	Used Min 5 Max 15 T(I)	Cal Channel One T(T)	Cal Channel Two T(T)	Total T(T) 10	AREA ID
				SURFACE CODE	"C" VALUE	OVRLND LENGTH	UP ELEV	DN ELEV	SLOPE %	P or U	CHANNEL LENGTH	UP ELEV	DN ELEV	SLOPE %	VELOCITY F/S									
1	0.23	212.0	1016.0	1013.0	S	0.51	50.0	1016.0	1015.0	2.0	P	162.0	1015.0	1013.0	1.23	2.3	6.0	6.0	1.2	0.0	7.2	1.0		
2	1.20	475.0	1015.5	1012.3	S	0.51	42.0	1015.5	1014.7	2.0	P	433.0	1014.7	1012.3	0.54	1.5	5.4	5.4	4.8	0.0	10.3	2.0		
3	0.37	329.0	1026.2	1015.0	S	0.51	59.0	1026.2	1025.0	2.0	P	270.0	1025.0	1015.0	3.70	3.9	6.4	6.4	1.2	0.0	7.6	3.0		
4	0.27	269.0	1025.1	1015.0	S	0.51	54.0	1025.1	1024.0	2.0	P	215.0	1024.0	1015.0	4.19	4.2	6.2	6.2	0.9	0.0	7.1	4.0		
5	0.47	202.0	1022.0	1017.0	S	0.51	90.0	1022.0	1020.0	2.2	U	112.0	1020.0	1017.0	2.68	2.6	7.7	7.7	0.7	0.0	8.4	5.0		
6	1.01	261.0	1021.0	1010.0	S	0.51	100.0	1021.0	1016.1	4.9	U	161.0	1016.1	1010.0	3.79	3.1	6.3	6.3	0.9	0.0	7.1	6.0		
7	0.87	246.0	1023.0	1010.0	S	0.51	100.0	1023.0	1015.5	7.5	U	146.0	1015.5	1010.0	3.77	3.1	5.4	5.4	0.8	0.0	6.2	7.0		
8	0.32	281.0	1032.8	1025.5	S	0.51	42.0	1032.8	1032.0	2.0	P	239.0	1032.0	1025.5	2.72	3.4	5.5	5.5	1.2	0.0	6.7	8.0		
9	0.39	319.0	1032.9	1024.2	S	0.51	44.0	1032.9	1032.0	2.0	P	275.0	1032.0	1024.2	2.84	3.4	5.6	5.6	1.3	0.0	6.9	9.0		
10	0.67	247.0	1030.3	1020.0	S	0.51	92.0	1030.3	1024.3	6.5	U	155.0	1024.3	1020.0	2.77	2.7	5.5	5.5	1.0	0.0	6.4	10.0		
11	1.01	367.0	1030.3	1022.0	S	0.51	100.0	1030.3	1026.5	3.8	U	267.0	1026.5	1022.0	1.69	2.6	6.8	6.8	1.7	0.0	8.5	11.0		
12	0.86	232.0	1024.2	1017.0	S	0.51	100.0	1024.2	1019.9	4.3	U	132.0	1019.9	1017.0	2.20	2.4	6.5	6.5	0.9	0.0	7.5	12.0		
13	0.29	162.0	1031.9	1026.4	S	0.51	99.0	1031.9	1028.6	3.3	U	63.0	1028.6	1026.4	3.49	3.0	7.1	7.1	0.3	0.0	7.4	13.0		
14	0.33	239.0	1030.9	1024.5	S	0.51	100.0	1030.9	1028.0	2.9	P	139.0	1028.0	1024.5	2.52	3.2	7.4	7.4	0.7	0.0	8.2	14.0		
15	0.19	162.0	1026.9	1024.5	S	0.51	46.0	1026.9	1026.0	2.0	P	116.0	1026.0	1024.5	1.29	2.3	5.7	5.7	0.8	0.0	6.6	15.0		
16	0.77	222.0	1026.9	1019.9	S	0.51	100.0	1026.9	1021.7	5.2	P	122.0	1021.7	1019.9	1.48	2.5	6.1	6.1	0.8	0.0	6.9	16.0		
17	0.21	265.0	1033.4	1027.5	S	0.51	33.0	1033.4	1032.7	2.0	P	232.0	1032.7	1027.5	2.24	3.0	4.8	5.0	1.3	0.0	6.3	17.0		
18	0.05	72.0	1027.8	1026.0	S	0.51	23.0	1027.8	1027.3	2.0	P	49.0	1027.3	1026.0	2.65	3.3	4.0	5.0	0.2	0.0	5.2	18.0		
19	0.65	360.0	1037.2	1027.5	S	0.51	100.0	1037.2	1033.5	3.7	P	260.0	1033.5	1027.5	2.31	3.1	6.9	6.9	1.4	0.0	8.3	19.0		
20	0.35	315.0	1038.0	1032.0	S	0.51	26.0	1038.0	1037.5	2.0	P	289.0	1037.5	1032.0	1.89	2.8	4.3	5.0	1.7	0.0	6.7	20.0		
21	0.26	276.0	1038.0	1033.0	S	0.51	26.0	1038.0	1037.5	2.0	P	250.0	1037.5	1033.0	1.78	2.7	4.3	5.0	1.5	0.0	6.5	21.0		
Detention	2.35	N/A			Z	0.42																Detention		

AREAS 19, 20 AND 21 ARE LOCATED IN THE RESERVE AT STONEY CREEK 4TH PLAT

Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
The Manor at Stoney Creek - 4th Plat
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS

5/21/2021 As-Built

REV. 11-14-19

C. 202

The Manor at Stoney Creek - 4th Plat
Lee's Summit, Jackson County, Missouri

Project: MANOR AT STONEY CREEK 4TH PLAT
Issue Date: August 29, 2018

Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS
50 SE 30TH STREET
LEES SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

"AS-BUILT"

900.10
900.00 Indicates data replaced with "As-Built" information. All other data is as designed and has not been field verified.