

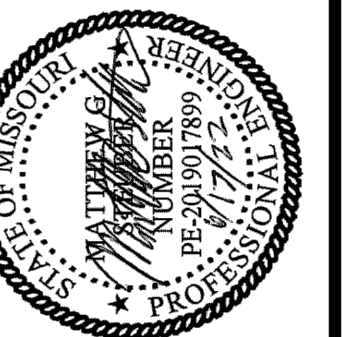
15-YR 20-MINUTE HYDRAULIC CALCULATIONS

Label	Diameter (in)	Length (Unified) (ft)	Manning's n	Bend Angle (Calculated) (degrees)	Slope (Calculated) (ft/ft)	Flow (cfs)	Capacity (Excess Full Flow) (cfs)	Capacity (Full Flow) (cfs)	Velocity (In) (ft/s)	Velocity (Out) (ft/s)	Stop Node	Invert (Stop) (ft)	Elevation Ground (Stop) (ft)	Hydraulic Grade Line (Out) (ft)	Start Node	Invert (Start) (ft)	Elevation Ground (Start) (ft)	Hydraulic Grade Line (In) (ft)	Freeboard (ft)
6-5	12	104	0.013	25.25	0.01	2.42	1.14	3.56	3.08	3.08	5	522.47	527.38	524.48	6	523.51	527.51	524.96	2.55
3-2	18	10	0.013	0	0.396	8.71	57.39	66.1	4.93	4.93	2	517	528.5	524.04	3	520.96	528.25	524.11	4.14
9-8	15	31.6	0.013	89.41	0.01	3.99	2.51	6.5	3.25	3.25	8	523.61	529	525.12	9	523.93	529.32	525.24	4.08
8-7	15	115.2	0.013	94.29	0.01	4.38	2.07	6.45	3.57	3.57	7	522.46	526.71	524.59	8	523.61	529	525.12	3.88
7-3	18	150.5	0.013	90	0.01	5.95	4.54	10.49	3.37	3.37	3	520.96	528.25	524.11	7	522.46	526.71	524.59	2.12
5-4	12	27.8	0.013	64.75	0.01	2.54	1.03	3.57	3.23	3.23	4	522.19	527.74	524.34	5	522.47	527.38	524.48	2.9
4-3	12	45.5	0.013	90	0.01	2.54	1	3.54	3.23	3.23	3	521.74	528.25	524.11	4	522.19	527.74	524.34	3.4
11-10	12	63.1	0.013	86.51	0.01	0.76	2.8	3.56	2.94	1.16	10	524.56	529	525.33	11	525.19	529.1	525.55	3.55
10-9	15	63	0.013	85.12	0.01	3.67	2.79	6.46	4.6	2.99	9	523.93	529.32	525.24	10	524.56	529	525.33	3.67

NO	DATE	REVISION DESCRIPTION
1	05/12/2022	CITY REVIEW COMMENTS #1
2	07/24/2022	GRAVING AND DRAINAGE UPDATES

DEVELOPER/OWNER:  
**MOHR CAPITAL LLC**  
 14643 DALLAS PARKWAY SUITE 1000  
 DALLAS, TX 75254  
 (214) 801-9860

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DESIGN/CALC BY: MGS  
 DRAWN BY: MGS  
 CHECKED BY: MGS  
 DRAWING SCALE: AS SHOWN  
 DATE: 06/17/2022  
 Job Number: 21-0154  
 Sheet Number

C6.1

SCALE  
 VERTICAL 1" = 5'  
 HORIZONTAL 1" = 30'