

Drawing name: V:\14\1048\Missouri\TracDrawings\Improvements\0248 IMP.dwg Plotter on: Apr 25, 2018 - 12:14pm Plotted by: dmolitor

ISSUE	DATE / REMARKS
1	6-10-2016 Initial Submittal
2	9-1-2016 PWSO #2 & DCSD Comments
3	10-24-16 City Comments
4	11-15-16 DCSD Comments
5	12-12-16 City Comments
6	12-28-16 DCSD Comments
7	1-18-17 PWSO #2 Comments
8	1-26-17 Fire District Comments
9	1-27-17 City Comments
10	3-1-17 City Comments
11	4-10-18 Removed Eyebrow

Drainage Area	Total Area (AC)	Total 100% Area (AC)	P.I. Factor	Total 100% Q	Total 5% Area (AC)	P.I. Factor	Total 5% Q	Total Q15	Total Q100	Drains to inlet #	Drainage Area
1	0.95	0.18	3.85	0.70	0.77	1.87	1.43	2.13	2.87	offsite	1
2	0.22	0.12	3.85	0.45	0.10	1.87	0.19	0.64	0.87	CI 126	2
3	0.15	0.13	3.85	0.49	0.02	1.87	0.04	0.53	0.71	CI 125	3
4	2.11	0.34	3.85	1.30	1.77	1.87	3.32	4.62	6.23	AI 111	4
5A	0.52	0.27	3.85	1.03	0.25	1.87	0.47	1.50	2.02	DCI 128	5A
5B	0.35	0.18	3.85	0.71	0.17	1.87	0.31	1.02	1.38	CI 121	5B
6A	0.37	0.12	3.85	0.47	0.24	1.87	0.46	0.93	1.25	CI 127	6A
6B	0.22	0.14	3.85	0.55	0.08	1.87	0.14	0.69	0.94	CI 120	6B
7	0.71	0.36	3.85	1.39	0.35	1.87	0.65	2.03	2.74	CI 108	7
8	0.33	0.16	3.85	0.63	0.17	1.87	0.31	0.95	1.28	CI 119	8
9	0.57	0.26	3.85	0.99	0.32	1.87	0.60	1.58	2.14	CI 109	9
10	0.64	0.31	3.85	1.21	0.33	1.87	0.62	1.83	2.47	CI 110	10
11	1.04	0.16	3.85	0.61	0.88	1.87	1.65	2.26	3.05	AI 112	11
12	1.31	0.24	3.85	0.91	1.07	1.87	2.00	2.91	3.93	AI 123	12
13	0.50	0.12	3.85	0.46	0.38	1.87	0.70	1.17	1.57	AI 113	13
14	0.42	0.07	3.85	0.28	0.34	1.87	0.64	0.92	1.25	AI 114	14
15	0.37	0.17	3.85	0.66	0.19	1.87	0.36	1.03	1.38	CI 115	15
16	0.55	0.27	3.85	1.05	0.28	1.87	0.53	1.57	2.12	CI 116	16
17	0.55	0.10	3.85	0.40	0.44	1.87	0.83	1.23	1.66	AI 118	17
18	0.81	0.14	3.85	0.54	0.67	1.87	1.26	1.80	2.42	AI 217	18
19	0.42	0.29	3.85	1.13	0.12	1.87	0.23	1.37	1.85	CI 215	19
20	1.11	0.57	3.85	2.20	0.54	1.87	1.00	3.20	4.32	DCI 310	20
21	1.25	0.64	3.85	2.48	0.61	1.87	1.14	3.61	4.88	DCI 309	21
22	2.22	0.16	3.85	0.63	2.05	1.87	3.84	4.47	6.04	OS 204	22
23	0.08	0.05	3.85	0.18	0.03	1.87	0.06	0.24	0.32	CI 214	23
24	3.73	0.50	3.85	1.93	3.22	1.87	6.03	7.96	10.75	AI 218	24
25	1.14	0.63	3.85	2.41	0.52	1.87	0.97	3.38	4.56	CI 211	25
26	0.52	0.29	3.85	1.10	0.23	1.87	0.44	1.54	2.07	CI 210	26
27	1.19	0.14	3.85	0.53	1.05	1.87	1.96	2.49	3.36	AI 212	27
28	0.00	0.00	3.85	0.00	0.00	1.87	0.00	0.00	0.00	CI 207	28
29	0.69	0.06	3.85	0.22	0.63	1.87	1.18	1.40	1.89	AI 206	29
30	0.42	0.00	3.85	0.00	0.42	1.87	0.79	0.79	1.07	AI 313	30
31	0.74	0.03	3.85	0.11	0.71	1.87	1.33	1.44	1.95	AI 304	31
32	0.50	0.09	3.85	0.33	0.42	1.87	0.78	1.11	1.50	AI 326	32
33	1.18	0.59	3.85	2.29	0.58	1.87	1.09	3.38	4.57	CI 319	33
34	0.67	0.37	3.85	1.41	0.30	1.87	0.56	1.97	2.66	CI 334	34
35	0.52	0.09	3.85	0.35	0.43	1.87	0.81	1.16	1.57	AI 335	35
36	0.95	0.05	3.85	0.18	0.91	1.87	1.70	1.87	2.53	AI 324	36
37	0.50	0.29	3.85	1.13	0.21	1.87	0.39	1.51	2.04	CI 320	37
38	0.44	0.01	3.85	0.06	0.43	1.87	0.80	0.85	1.15	AI 303	38
39	0.54	0.04	3.85	0.17	0.50	1.87	0.94	1.10	1.49	AI 315	39
40	0.20	0.06	3.85	0.22	0.14	1.87	0.26	0.48	0.65	AI 317	40
41	0.25	0.03	3.85	0.11	0.22	1.87	0.41	0.52	0.70	AI 316	41
42	2.01	0.07	3.85	0.28	1.94	1.87	3.62	3.91	5.27	OS 301	42
43	0.38	0.19	3.85	0.72	0.19	1.87	0.36	1.08	1.45	CI 327	43
44	0.67	0.38	3.85	1.45	0.29	1.87	0.54	1.99	2.68	CI 328	44
45	0.75	0.16	3.85	0.62	0.58	1.87	1.09	1.71	2.31	AI 333	45
46	0.17	0.03	3.85	0.11	0.14	1.87	0.27	0.38	0.51	AI 330	46
47	0.16	0.03	3.85	0.11	0.13	1.87	0.24	0.35	0.48	AI 331	47
48	0.49	0.00	3.85	0.00	0.49	1.87	0.93	0.93	1.25	AI 332	48
49	0.34	0.11	3.85	0.44	0.23	1.87	0.43	0.87	1.17	AI 338	49
50	0.37	0.09	3.85	0.34	0.28	1.87	0.53	0.87	1.18	AI 339	50
51	0.24	0.06	3.85	0.22	0.19	1.87	0.35	0.57	0.77	AI 340	51
52	0.47	0.07	3.85	0.27	0.40	1.87	0.75	1.02	1.37	AI 203	52
53	0.72	0.11	3.85	0.44	0.61	1.87	1.14	1.58	2.13	AI 312	53
54	0.15	0.05	3.85	0.18	0.11	1.87	0.20	0.38	0.51	AI 201	54
55	1.34	0.70	3.85	2.69	0.64	1.87	1.20	3.90	5.26	CI 306	55
56	0.22	0.12	3.85	0.47	0.10	1.87	0.18	0.65	0.88	CI 308	56
57	0.41	0.07	3.85	0.27	0.34	1.87	0.63	0.90	1.21	AI 311	57
58	0.18	0.02	3.85	0.09	0.15	1.87	0.29	0.38	0.51	AI 305	58
59	1.61	0.00	3.85	0.00	1.61	1.87	3.02	3.02	4.07	OS 101	59
60	0.94	0.17	3.85	0.66	0.76	1.87	1.43	2.09	2.83	AI 107	60
27b	0.99	0.45	3.85	1.75	0.53	1.87	1.00	2.74	3.70	EX INLET	27b
36a	3.18	0.00	3.85	0.00	3.18	1.87	5.95	5.95	8.03	FES 325	36a

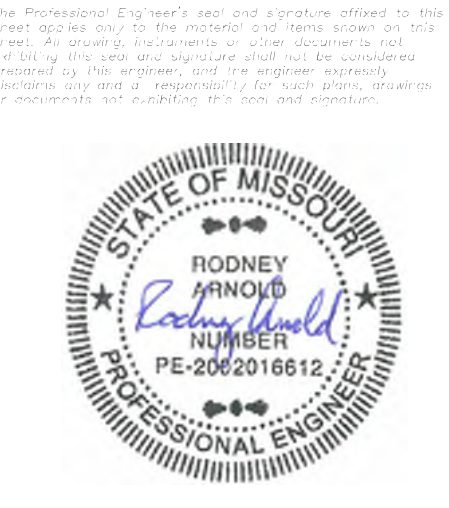
INLET CAPACITY CALCULATIONS							
INLET NUMBER	INLET TYPE	STREET GRADE (%)	INLET CAPACITY (CFS)	Q15 (CFS)	Q15 BYPASS FROM UPSTREAM INLET (CFS)	TOTAL Q15 TO INLET (CFS)	Q15 BYPASS (CFS)
108	DCI	3.0	5.08	2.03	0.52	2.55	0.00
109	CI	Low PT	4.00	1.58	0.53	2.11	0.00
110	DCI	Low PT	8.00	1.83	1.07	2.90	0.00
115	CI	6.0	0.50	1.03	0.00	1.03	0.53
116	CI	6.0	0.50	1.57	0.00	1.57	1.07
119	CI	3.0	1.57	0.95	0.19	1.14	0.00
120	CI	6.0	0.50	0.69	0.00	0.69	0.19
121	CI	6.0	0.50	1.02	0.00	1.02	0.52
125	CI	2.0	1.93	0.53	0.00	0.53	0.00
126	CI	2.0	1.93	0.64	0.00	0.64	0.00
127	CI	4.4	1.07	0.93	0.00	0.93	0.00
128	DCI	4.4	2.96	1.50	0.00	1.50	0.00
210	CI	Low PT	4.00	0.90	0.00	0.90	0.00
211	DCI	Low PT	8.00	3.38	0.45	3.83	0.00
214	CI	4.8	0.92	0.24	0.00	0.24	0.00
215	CI	4.8	0.92	1.37	0.00	1.37	0.45
306	CI	Low PT	4.00	3.90	0.00	3.90	0.00
308	CI	2.0	1.93	0.65	0.00	0.65	0.00
309	DCI	2.0	6.60	3.61	0.00	3.61	0.00
310	DCI	2.0	6.60	3.20	0.00	3.20	0.00
319	CI	Low PT	8.00	2.36	0.00	2.36	0.00
320	CI	Low PT	8.00	1.51	0.72	2.23	0.00
327	CI	3.0	1.57	1.08	0.00	1.08	0.00
328	CI	3.0	1.57	1.99	0.00	1.99	0.42
334	CI	3.0	1.57	1.97	0.00	1.97	0.40

PROJECT TITLE

WESTLEIGH

O'FALLON, MISSOURI

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Date: 4/25/2018
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DRAINAGE AREA CALCULATIONS

CITY OF O'FALLON
COMMUNITY DEVELOPMENT DEPARTMENT
ACCEPTED FOR CONSTRUCTION
BY: *[Signature]* DATE **APRIL 27, 2018**
PROFESSIONAL ENGINEER'S SEAL
INDICATES RESPONSIBILITY FOR DESIGN

P+Z No. P&Z NO
City No. 15-162-SP
Date: 4/25/2018
Job No. 14-10-348

Page No. **9.4**