

PVC CLASS 200 IPS PLASTIC PIPE

(1120, 1220) SDR 21 C=150
PSI loss per 100 feet of pipe (psi/100 ft)

PVC CLASS 200 IPS PLASTIC PIPE
Sizes ¾ in. through 6 in. Flow 1 through 600 gpm.

SIZE	¾ in	1 in	1 ¼ in	1 ½ in	2 in
OD	1.050	1.315	1.660	1.900	2.375
ID	0.930	1.189	1.502	1.720	2.149
Wall Thk	0.060	0.063	0.079	0.090	0.113

Flow gpm	velocity fps	psi loss	velocity fps	psi loss	velocity fps	psi loss	velocity fps	psi loss	velocity fps	psi loss	velocity fps	psi loss
1	0.47	0.05	0.28	0.02	0.18	0.01	0.13	0.00	0.17	0.00	0.18	0.00
2	0.94	0.22	0.57	0.07	0.36	0.02	0.27	0.01	0.34	0.01	0.36	0.01
3	1.42	0.46	0.86	0.14	0.54	0.04	0.41	0.02	0.51	0.02	0.54	0.02
4	1.89	0.79	1.15	0.24	0.72	0.08	0.55	0.04	0.68	0.04	0.72	0.04
5	2.36	1.20	1.44	0.36	0.90	0.12	0.68	0.06	0.84	0.06	0.90	0.06
6	2.83	1.68	1.73	0.51	1.08	0.16	0.82	0.08	1.00	0.08	1.08	0.08
7	3.30	2.23	2.02	0.67	1.26	0.22	0.96	0.11	1.16	0.11	1.26	0.11
8	3.77	2.85	2.30	0.86	1.44	0.28	1.10	0.14	1.32	0.14	1.44	0.14
9	4.25	3.55	2.59	1.07	1.62	0.34	1.24	0.18	1.48	0.18	1.62	0.18
10	4.72	4.31	2.88	1.30	1.80	0.42	1.37	0.22	1.64	0.22	1.80	0.22
11	5.19	5.15	3.17	1.56	1.98	0.50	1.51	0.26	1.82	0.26	2.00	0.26
12	5.66	6.05	3.46	1.83	2.17	0.59	1.65	0.30	1.96	0.30	2.16	0.30
14	6.60	8.05	4.04	2.43	2.53	0.78	1.93	0.40	2.23	0.40	2.46	0.40
16	7.55	10.30	4.61	3.11	2.89	1.00	2.20	0.52	2.41	0.52	2.70	0.52
18	8.49	12.81	5.19	3.87	3.25	1.24	2.48	0.64	2.69	0.64	3.00	0.64
20	9.43	15.58	5.77	4.71	3.61	1.51	2.75	0.78	2.96	0.78	3.24	0.78
22	10.38	18.58	6.34	5.62	3.97	1.80	3.03	0.93	3.24	0.93	3.54	0.93
24	11.32	21.83	6.92	6.60	4.34	2.12	3.30	1.09	3.54	1.09	3.84	1.09
26	12.27	25.32	7.50	7.65	4.70	2.46	3.58	1.27	3.74	1.27	4.08	1.27
28	13.21	29.04	8.08	8.78	5.06	2.82	3.86	1.46	3.94	1.46	4.32	1.46
30	14.15	33.00	8.65	9.98	5.45	3.20	4.13	1.66	4.26	1.66	4.56	1.66
35	16.51	43.91	10.10	13.27	6.32	4.26	4.82	2.20	5.09	2.20	5.40	2.20
40	18.87	56.23	11.54	17.00	7.23	5.45	5.51	2.82	5.83	2.82	6.24	2.82
45			12.98	21.14	8.13	6.78	6.20	3.51	6.59	3.51	7.02	3.51
50			14.42	25.70	9.04	8.24	6.89	4.28	7.41	4.28	7.86	4.28
55			15.87	30.66	9.94	9.83	7.58	5.09	8.15	5.09	8.64	5.09
60			17.31	36.02	10.85	11.55	8.27	5.97	9.00	5.97	9.54	5.97
65			18.75	41.77	11.75	13.40	8.96	6.93	9.74	6.93	10.32	6.93
70					12.65	15.37	9.65	7.95	10.68	7.95	11.28	7.95
75					13.56	17.47	10.34	9.03	11.76	9.03	12.36	9.03

5 Series MPR							8 Series MPR						
5" Trajectory							10" Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip in/h	Precip in/h		Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip in/h	Precip in/h	
5F	15	3	0.29	3.10	3.58		8F	15	5	0.74	2.85	3.29	
	20	4	0.33	1.99	2.29			20	6	0.86	2.30	2.66	
	30	5	0.41	1.58	1.83			25	7	0.96	1.89	2.18	
5H	15	3	0.14	3.00	3.46		8H	15	5	0.37	2.85	3.29	
	20	4	0.16	1.93	2.22			20	6	0.42	2.25	2.59	
	25	4	0.18	2.17	2.50			25	7	0.47	1.85	2.13	
5Q	30	5	0.20	1.54	1.78		8Q	30	8	0.52	1.56	1.81	
	15	3	0.07	3.00	3.46			15	5	0.18	2.77	3.20	
	20	4	0.08	1.93	2.22			20	6	0.21	2.25	2.59	
	25	4	0.09	2.17	2.50			25	7	0.24	1.89	2.18	
	30	5	0.10	1.54	1.78			30	8	0.26	1.56	1.81	

10 Series MPR							12 Series MPR						
15" Trajectory							30" Trajectory						
Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip in/h	Precip in/h		Nozzle	Pressure psi	Radius ft.	Flow gpm	Precip in/h	Precip in/h	
10F	15	7	1.16	2.28	2.63		12F	15	9	1.80	2.14	2.47	
	20	8	1.30	1.96	2.26			20	10	2.10	2.02	2.34	
	25	9	1.44	1.71	1.98			25	11	2.40	1.91	2.21	
10H	30	10	1.58	1.52	1.75		12H	30	12	2.60	1.74	2.01	
	15	7	0.58	2.28	2.63			15	9	0.90	2.14	2.47	
	20	8	0.65	1.96	2.26			20	10	1.05	2.02	2.34	
10Q	25	9	0.72	1.71	1.98		12Q	25	11	1.20	1.91	2.21	
	30	10	0.79	1.52	1.75			30	12	1.30	1.74	2.01	
	15	7	0.29	2.28	2.63			15	9	0.45	2.14	2.47	
	20	8	0.33	1.96	2.26			20	10	0.53	2.02	2.34	
	25	9	0.36	1.71	1.98			25	11	0.60	1.91	2.21	
	30	10	0.39	1.52	1.75			30	12	0.65	1.74	2.01	

SITE SUMMARY

PROPERTY SIZE = 11,141 SF. (401 AC)
REQ'D LANDSCAPE AREA = 2,662 SF. (15%)
EXISTING LANDSCAPE AREA = 0# SF. (0%)
NEW LANDSCAPE AREA = 10,124 SF. (60.4%)
COMMON LANDSCAPE AREA = 5,464 SF. (30.1%)
BUILDING FOOTPRINT AREA = 4,234 SF. (23.9%)
HARD SCAP AREA = 2,189 SF. (15.1%)

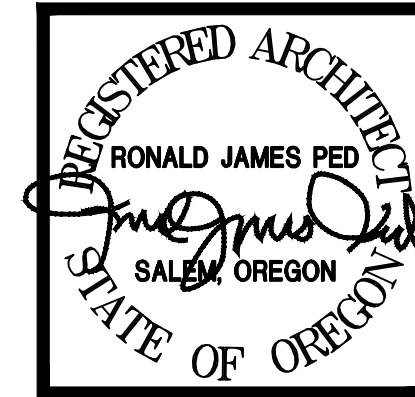
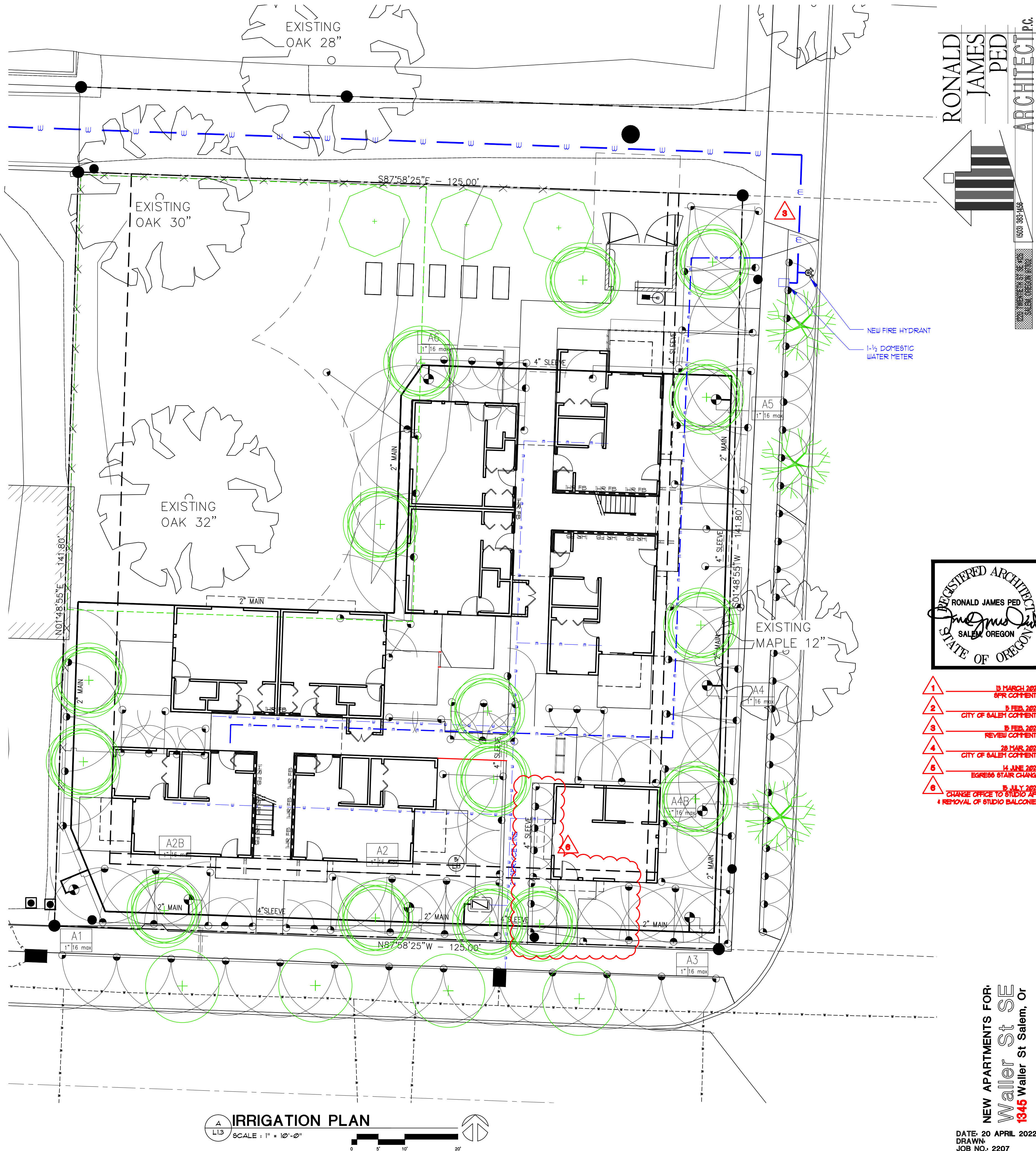
TOTAL IMPERVIOUS 1,023 SF. < 10,000 SF.

TABLE 102-3. COMMON OPEN SPACE AREA SIZE AND DIMENSIONS

MORE THAN 20 UNITS (NAIVE 54) = 1,000 SF (20)
+4 UNITS OVER 500 = 250 SF (4x12.5)
MIN. AREA REQUIRED = 1,050 SF
PROVIDED AREA = 8,464 SF
250 SF/20 (FOR EACH ADDITIONAL UNIT) = 12.5 SF

TABLE 102-4. PRIVATE OPEN SPACE SIZE AND DIMENSIONS

1ST FLOOR = 96 SF
2ND AND 3RD = 48 SF



1. 13 MARCH 2023
6PR COMMENTS
2. 9 FEB. 2024
CITY OF SALEM COMMENTS
3. 9 FEB. 2024
REVIEW COMMENTS
4. 28 MAR. 2024
CITY OF SALEM COMMENTS
5. 14 JUNE 2024
EGRESS STAIR CHANGE
6. 3 JULY 2024
CHANGE OFFICE TO STUDIO
+ REMOVAL OF STUDIO BALCONIES

NEW APARTMENTS FOR
Waller St SE
1345 Waller St Salem, Or

DATE: 20 APRIL 2022
DRAWN:
JOB NO.: 2207

L1.3

REVISED 08.30.2024
CONSTRUCTION SET 04.29.2024