

WESTERN KANSAS IRRIGATION

SEPTEMBER 26, 2025

CUSTOMER : PARKS BROTHERS

LEGAL : SECTION 2-31-40
P.O. NO. : INV170091

WISH-119626

VALLEY 8000 - 30
16 TOWER - 2576.53 FT
SYSTEM 625 GPM @ 22 PSI

SENNINGER HD LOW DRIFT SPRAY NOZZLES
SENNINGER 10 & 6 PSI REGULATORS
NO ENDGUN
ELEVATION 26 FT UP, 20 FT DOWN

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855
(620)492-2362

WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

VALLEY 8000 - 30

SEPTEMBER 26, 2025

WISH-119626

DEALER

WESTERN KANSAS IRRIGATION
 125 N. FRONTAGE ROAD
 JOHNSON, KANSAS 67855

IRRIGATOR

PARKS BROTHERS
 SECTION 2-31-40
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TOTAL TARGET GPM	625.00	FRICTION FACTOR USED	140	SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOP OF PIVOT PRESSURE	22.00	TOTAL LENGTH	2576.53	1	115.93	8.415	12
NO ENDGUN		NUMBER OF TOWERS	16	2	160.11	8.415	21
NUMBER OF OUTLETS	1017	NUMBER OF SPRINKLERS	469	3	160.11	8.415	21
				4	160.11	8.415	31
SENNINGER HD LOW DRIFT SPRAY NOZZLES - CONCAVE GROOVED PADS X BEIGE BUBBLERS				5	160.11	8.415	31
SENNINGER FPSR2 10 & 6 PSI SERIES REGULATORS				6	160.11	8.415	31
DROPS AVERAGE 12.5 FT OF .75 I.D. FLEXIBLE HOSE - EXTERNAL WEIGHT				7	160.11	8.415	31
ELEVATION IS 26 FT UP AND 20 FT DOWN				8	160.11	8.415	31
				9	160.11	8.415	31
				10	160.11	8.415	31
				11	160.11	8.415	31
				12	160.11	8.415	31
				13	160.11	8.415	31
				14	160.11	8.415	31
				15	135.26	6.415	26
				16	179.91	6.415	35
				OH	36.58	6.415	7
					27.42	3.79	6

CAUTIONS AND WARNINGS

1. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.
2. When using spray nozzles with five foot ground clearance or less, nozzle should travel between crop rows and spacing should not exceed 80 inches.
3. This system designed for minimum pressure. Failure to deliver indicated pressure at the top of pivot point will adversely affect regulator and/or sprinkler/spray performance. Elevations, pipe sizes and type of drop pipe must be as shown.

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
1		5.40	-	-	-	-	-	-	-	1
2		14.40	-	-	-	-	-	-	-	2
3	23.40	23.40	0.07	0.37	21.58	11.40	SN LD NOZ 4 LT BLUE	1	FPSR210	
4	9.00	32.40	0.05	0.37	21.43	11.40	SN LD NOZ 4 LT BLUE	2	FPSR210	
5	9.00	41.40	0.06	0.37	21.32	11.40	SN LD NOZ 4 LT BLUE	3	FPSR210	
6		46.18	-	-	-	-	-	-	-	3
7	7.28	48.68	0.07	0.37	21.26	11.40	SN LD NOZ 4 LT BLUE	4	FPSR210	
8		51.18	-	-	-	-	-	-	-	4
9		53.68	-	-	-	-	-	-	-	5
10	7.50	56.18	0.08	0.37	21.22	11.40	SN LD NOZ 4 LT BLUE	5	FPSR210	
11		58.68	-	-	-	-	-	-	-	6
12		61.18	-	-	-	-	-	-	-	7
13	7.50	63.68	0.09	0.37	21.21	11.40	SN LD NOZ 4 LT BLUE	6	FPSR210	
14		66.18	-	-	-	-	-	-	-	8
15		68.68	-	-	-	-	-	-	-	9
16	7.50	71.18	0.10	0.37	21.23	11.40	SN LD NOZ 4 LT BLUE	7	FPSR210	
17		73.68	-	-	-	-	-	-	-	10
18		76.18	-	-	-	-	-	-	-	11
19	7.50	78.68	0.11	0.37	21.28	11.40	SN LD NOZ 4 LT BLUE	8	FPSR210	
20		81.18	-	-	-	-	-	-	-	12
21		83.68	-	-	-	-	-	-	-	13
22	7.50	86.18	0.12	0.37	21.35	11.40	SN LD NOZ 4 LT BLUE	9	FPSR210	
23		88.68	-	-	-	-	-	-	-	14
24		91.18	-	-	-	-	-	-	-	15
25	7.50	93.68	0.13	0.37	21.45	11.40	SN LD NOZ 4 LT BLUE	10	FPSR210	
26		96.18	-	-	-	-	-	-	-	16
27		98.68	-	-	-	-	-	-	-	17
28	7.50	101.18	0.14	0.37	21.58	11.40	SN LD NOZ 4 LT BLUE	11	FPSR210	
29		103.68	-	-	-	-	-	-	-	18
30		106.18	-	-	-	-	-	-	-	19
31	7.50	108.68	0.18	0.37	21.73	11.40	SN LD NOZ 4 LT BLUE	12	FPSR210	
32		111.18	-	-	-	-	-	-	-	20
33		113.68	-	-	-	-	-	-	-	21
TOWER 1	115.93	115.93	-	-	-	-	-	-	-	
34		116.13	-	-	-	-	-	-	-	22
35	9.95	118.63	0.19	0.37	21.73	11.40	SN LD NOZ 4 LT BLUE	13	FPSR210	
36		121.13	-	-	-	-	-	-	-	23
37		123.63	-	-	-	-	-	-	-	24
38	7.50	126.13	0.18	0.37	21.65	11.40	SN LD NOZ 4 LT BLUE	14	FPSR210	
39		128.63	-	-	-	-	-	-	-	25
40		131.13	-	-	-	-	-	-	-	26
41	7.50	133.63	0.19	0.37	21.48	11.40	SN LD NOZ 4 LT BLUE	15	FPSR210	
42		136.13	-	-	-	-	-	-	-	27
43		138.63	-	-	-	-	-	-	-	28
44	7.50	141.13	0.20	0.37	21.33	11.40	SN LD NOZ 4 LT BLUE	16	FPSR210	
45		143.63	-	-	-	-	-	-	-	29
46		146.13	-	-	-	-	-	-	-	30
47	7.50	148.63	0.21	0.37	21.19	11.40	SN LD NOZ 4 LT BLUE	17	FPSR210	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
48		151.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	31
49		153.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	32
50	7.50	156.13	0.22	0.37	21.07	11.40	SN LD NOZ 4 LT BLUE	18	FPSR210	
51		158.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	33
52		161.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	34
53	7.50	163.63	0.23	0.37	20.98	11.40	SN LD NOZ 4 LT BLUE	19	FPSR210	
54		166.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	35
55		168.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	36
56	7.50	171.13	0.24	0.37	20.89	11.40	SN LD NOZ 4 LT BLUE	20	FPSR210	
57		173.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	37
58		176.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	38
59	7.50	178.63	0.25	0.37	20.83	11.40	SN LD NOZ 4 LT BLUE	21	FPSR210	
60		181.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	39
61		183.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	40
62	7.50	186.13	0.26	0.37	20.78	11.40	SN LD NOZ 4 LT BLUE	22	FPSR210	
63		188.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	41
64		191.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	42
65	7.50	193.63	0.27	0.37	20.75	11.40	SN LD NOZ 4 LT BLUE	23	FPSR210	
66		196.08	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	43
67		198.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	44
68	7.40	201.03	0.28	0.37	20.74	11.40	SN LD NOZ 4 LT BLUE	24	FPSR210	
69		203.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	45
70		206.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	46
71	7.50	208.53	0.29	0.37	20.75	11.40	SN LD NOZ 4 LT BLUE	25	FPSR210	
72		211.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	47
73		213.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	48
74	7.50	216.03	0.30	0.37	20.77	11.40	SN LD NOZ 4 LT BLUE	26	FPSR210	
75		218.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	49
76		221.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	50
77	7.50	223.53	0.31	0.37	20.81	11.40	SN LD NOZ 4 LT BLUE	27	FPSR210	
78		226.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	51
79		228.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	52
80	7.50	231.03	0.32	0.37	20.87	11.40	SN LD NOZ 4 LT BLUE	28	FPSR210	
81		233.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	53
82		236.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54
83	7.50	238.53	0.33	0.37	20.95	11.40	SN LD NOZ 4 LT BLUE	29	FPSR210	
84		241.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	55
85		243.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	56
86	7.50	246.03	0.34	0.37	21.04	11.40	SN LD NOZ 4 LT BLUE	30	FPSR210	
87		248.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	57
88		251.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	58
89	7.50	253.53	0.35	0.37	21.15	11.40	SN LD NOZ 4 LT BLUE	31	FPSR210	
90		256.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	59
91		258.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60
92	7.50	261.03	0.36	0.37	21.28	11.40	SN LD NOZ 4 LT BLUE	32	FPSR210	
93		263.53	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	61
94		266.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	62
95	7.50	268.53	0.44	0.46	21.40	11.40	SN LD NOZ 4.5 LT BL/BEIGE	33	FPSR210	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
143		388.64	-	-	-	-	-	-	-	95
144	7.50	391.14	0.54	0.59	20.52	11.40	SN LD NOZ 5 BEIGE	49	FPSR210	
145		393.64	-	-	-	-	-	-	-	96
146		396.14	-	-	-	-	-	-	-	97
147	7.50	398.64	0.55	0.59	20.60	11.40	SN LD NOZ 5 BEIGE	50	FPSR210	
148		401.14	-	-	-	-	-	-	-	98
149		403.64	-	-	-	-	-	-	-	99
150	7.50	406.14	0.56	0.59	20.69	11.40	SN LD NOZ 5 BEIGE	51	FPSR210	
151		408.64	-	-	-	-	-	-	-	100
152		411.14	-	-	-	-	-	-	-	101
153	7.50	413.64	0.57	0.59	20.81	11.40	SN LD NOZ 5 BEIGE	52	FPSR210	
154		416.14	-	-	-	-	-	-	-	102
155		418.64	-	-	-	-	-	-	-	103
156	7.50	421.14	0.59	0.59	20.94	11.40	SN LD NOZ 5 BEIGE	53	FPSR210	
157		423.64	-	-	-	-	-	-	-	104
158		426.14	-	-	-	-	-	-	-	105
159	7.50	428.64	0.70	0.73	21.05	11.40	SN LD NOZ 5.5 BEIGE/GOLD	54	FPSR210	
160		431.14	-	-	-	-	-	-	-	106
161		433.64	-	-	-	-	-	-	-	107
TOWER 3	160.11	436.15								
162		436.35	-	-	-	-	-	-	-	108
163	10.21	438.85	0.62	0.58	21.03	7.27	SN LD NOZ 5.5 BEIGE/GOLD	55	FPSR206	
164		441.35	-	-	-	-	-	-	-	109
165	5.00	443.85	0.41	0.47	21.01	7.28	SN LD NOZ 5 BEIGE	56	FPSR206	
166		446.35	-	-	-	-	-	-	-	110
167	5.00	448.85	0.42	0.47	20.89	7.28	SN LD NOZ 5 BEIGE	57	FPSR206	
168		451.35	-	-	-	-	-	-	-	111
169	5.00	453.85	0.42	0.47	20.78	7.28	SN LD NOZ 5 BEIGE	58	FPSR206	
170		456.35	-	-	-	-	-	-	-	112
171	5.00	458.85	0.43	0.47	20.68	7.28	SN LD NOZ 5 BEIGE	59	FPSR206	
172		461.35	-	-	-	-	-	-	-	113
173	5.00	463.85	0.43	0.47	20.58	7.28	SN LD NOZ 5 BEIGE	60	FPSR206	
174		466.35	-	-	-	-	-	-	-	114
175	5.00	468.85	0.43	0.47	20.50	7.28	SN LD NOZ 5 BEIGE	61	FPSR206	
176		471.35	-	-	-	-	-	-	-	115
177	5.00	473.85	0.44	0.47	20.42	7.28	SN LD NOZ 5 BEIGE	62	FPSR206	
178		476.35	-	-	-	-	-	-	-	116
179	5.00	478.85	0.44	0.47	20.35	7.28	SN LD NOZ 5 BEIGE	63	FPSR206	
180		481.35	-	-	-	-	-	-	-	117
181	5.00	483.85	0.45	0.47	20.28	7.28	SN LD NOZ 5 BEIGE	64	FPSR206	
182		486.35	-	-	-	-	-	-	-	118
183	5.00	488.85	0.45	0.47	20.23	7.28	SN LD NOZ 5 BEIGE	65	FPSR206	
184		491.35	-	-	-	-	-	-	-	119
185	5.00	493.85	0.46	0.47	20.18	7.28	SN LD NOZ 5 BEIGE	66	FPSR206	
186		496.35	-	-	-	-	-	-	-	120
187	5.00	498.85	0.46	0.47	20.14	7.28	SN LD NOZ 5 BEIGE	67	FPSR206	
188		501.35	-	-	-	-	-	-	-	121
189	5.00	503.85	0.47	0.47	20.11	7.28	SN LD NOZ 5 BEIGE	68	FPSR206	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
285		5.00	743.86	0.69	0.70	20.34	7.26 SN LD NOZ 6 GOLD	115	FPSR206	
286			746.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	171
287		5.00	748.86	1.06	1.09	20.41	7.27 SN LD NOZ 7.5 LIME/LAV	116	SPSR06	
288			751.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	172
289			753.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	173
TOWER 5		160.11	756.37							
290			756.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	174
291		10.21	759.07	1.07	1.09	20.39	7.27 SN LD NOZ 7.5 LIME/LAV	117	SPSR06	
292			761.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	175
293		5.00	764.07	0.71	0.70	20.37	7.26 SN LD NOZ 6 GOLD	118	FPSR206	
294			766.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	176
295		5.00	769.07	0.71	0.70	20.25	7.26 SN LD NOZ 6 GOLD	119	FPSR206	
296			771.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	177
297		5.00	774.07	0.72	0.70	20.14	7.26 SN LD NOZ 6 GOLD	120	FPSR206	
298			776.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	178
299		5.00	779.07	0.72	0.70	20.04	7.26 SN LD NOZ 6 GOLD	121	FPSR206	
300			781.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	179
301		5.00	784.07	0.73	0.70	19.95	7.26 SN LD NOZ 6 GOLD	122	FPSR206	
302			786.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	180
303		5.00	789.07	0.73	0.70	19.86	7.26 SN LD NOZ 6 GOLD	123	FPSR206	
304			791.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	181
305		5.00	794.07	0.74	0.70	19.78	7.26 SN LD NOZ 6 GOLD	124	FPSR206	
306			796.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	182
307		5.00	799.07	0.74	0.70	19.71	7.26 SN LD NOZ 6 GOLD	125	FPSR206	
308			801.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	183
309		5.00	804.07	0.74	0.70	19.65	7.26 SN LD NOZ 6 GOLD	126	FPSR206	
310			806.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	184
311		5.00	809.07	0.75	0.70	19.59	7.26 SN LD NOZ 6 GOLD	127	FPSR206	
312			811.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	185
313		5.00	814.07	0.75	0.70	19.55	7.26 SN LD NOZ 6 GOLD	128	FPSR206	
314			816.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	186
315		5.00	819.07	0.76	0.70	19.51	7.26 SN LD NOZ 6 GOLD	129	FPSR206	
316			821.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	187
317		5.00	824.07	0.76	0.70	19.48	7.26 SN LD NOZ 6 GOLD	130	FPSR206	
318			826.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	188
319		5.00	829.07	0.77	0.82	19.45	7.26 SN LD NOZ 6.5 GOLD/LIME	131	FPSR206	
320			831.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	189
321		5.00	834.07	0.77	0.82	19.44	7.26 SN LD NOZ 6.5 GOLD/LIME	132	FPSR206	
322			836.52	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	190
323		4.90	838.97	0.77	0.83	19.43	7.28 SN LD NOZ 6.5 GOLD/LIME	133	SPSR06	
324			841.47	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	191
325		5.00	843.97	0.78	0.83	19.43	7.28 SN LD NOZ 6.5 GOLD/LIME	134	SPSR06	
326			846.47	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	192
327		5.00	848.97	0.79	0.83	19.44	7.28 SN LD NOZ 6.5 GOLD/LIME	135	SPSR06	
328			851.47	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	193
329		5.00	853.97	0.79	0.83	19.45	7.28 SN LD NOZ 6.5 GOLD/LIME	136	SPSR06	
330			856.47	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	194
331		5.00	858.97	0.80	0.83	19.48	7.28 SN LD NOZ 6.5 GOLD/LIME	137	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
379		5.00	979.18	0.91	0.96	19.23	7.28 SN LD NOZ 7 LIME	160	SPSR06	
380			981.68	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	220
381		5.00	984.18	0.91	0.96	19.20	7.28 SN LD NOZ 7 LIME	161	SPSR06	
382			986.68	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	221
383		5.00	989.18	0.92	0.96	19.17	7.28 SN LD NOZ 7 LIME	162	SPSR06	
384			991.68	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	222
385		5.00	994.18	0.91	0.96	19.16	7.28 SN LD NOZ 7 LIME	163	SPSR06	
386			996.63	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	223
387		4.90	999.08	0.92	0.96	19.15	7.28 SN LD NOZ 7 LIME	164	SPSR06	
388			1001.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	224
389		5.00	1004.08	0.93	0.96	19.15	7.28 SN LD NOZ 7 LIME	165	SPSR06	
390			1006.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	225
391		5.00	1009.08	0.93	0.96	19.16	7.28 SN LD NOZ 7 LIME	166	SPSR06	
392			1011.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	226
393		5.00	1014.08	0.94	0.96	19.18	7.28 SN LD NOZ 7 LIME	167	SPSR06	
394			1016.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	227
395		5.00	1019.08	0.94	0.96	19.20	7.28 SN LD NOZ 7 LIME	168	SPSR06	
396			1021.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	228
397		5.00	1024.08	0.95	0.96	19.23	7.28 SN LD NOZ 7 LIME	169	SPSR06	
398			1026.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	229
399		5.00	1029.08	0.95	0.96	19.27	7.28 SN LD NOZ 7 LIME	170	SPSR06	
400			1031.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	230
401		5.00	1034.08	0.96	0.96	19.32	7.28 SN LD NOZ 7 LIME	171	SPSR06	
402			1036.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	231
403		5.00	1039.08	0.96	0.96	19.38	7.28 SN LD NOZ 7 LIME	172	SPSR06	
404			1041.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	232
405		5.00	1044.08	0.97	0.96	19.44	7.28 SN LD NOZ 7 LIME	173	SPSR06	
406			1046.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	233
407		5.00	1049.08	0.97	0.96	19.51	7.28 SN LD NOZ 7 LIME	174	SPSR06	
408			1051.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	234
409		5.00	1054.08	0.98	0.96	19.59	7.28 SN LD NOZ 7 LIME	175	SPSR06	
410			1056.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	235
411		5.00	1059.08	0.98	0.96	19.68	7.28 SN LD NOZ 7 LIME	176	SPSR06	
412			1061.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	236
413		5.00	1064.08	0.99	0.96	19.78	7.28 SN LD NOZ 7 LIME	177	SPSR06	
414			1066.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	237
415		5.00	1069.08	1.51	1.55	19.85	7.26 SN LD NOZ 9 GREY	178	SPSR06	
416			1071.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	238
417			1074.08	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	239
TOWER 7		160.11	1076.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
418			1076.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	240
419		10.21	1079.29	1.52	1.55	19.83	7.26 SN LD NOZ 9 GREY	179	SPSR06	
420			1081.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	241
421		5.00	1084.29	1.00	0.96	19.81	7.28 SN LD NOZ 7 LIME	180	SPSR06	
422			1086.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	242
423		5.00	1089.29	1.01	0.96	19.70	7.28 SN LD NOZ 7 LIME	181	SPSR06	
424			1091.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	243
425		5.00	1094.29	1.01	0.96	19.59	7.28 SN LD NOZ 7 LIME	182	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
426		1096.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	244
427	5.00	1099.29	1.02	0.96	19.49	7.28	SN LD NOZ 7 LIME	183	SPSR06	
428		1101.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	245
429	5.00	1104.29	1.02	0.96	19.40	7.28	SN LD NOZ 7 LIME	184	SPSR06	
430		1106.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	246
431	5.00	1109.29	1.03	1.09	19.31	7.27	SN LD NOZ 7.5 LIME/LAV	185	SPSR06	
432		1111.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	247
433	5.00	1114.29	1.03	1.09	19.24	7.27	SN LD NOZ 7.5 LIME/LAV	186	SPSR06	
434		1116.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	248
435	5.00	1119.29	1.04	1.09	19.17	7.27	SN LD NOZ 7.5 LIME/LAV	187	SPSR06	
436		1121.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	249
437	5.00	1124.29	1.04	1.09	19.11	7.27	SN LD NOZ 7.5 LIME/LAV	188	SPSR06	
438		1126.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	250
439	5.00	1129.29	1.05	1.09	19.05	7.27	SN LD NOZ 7.5 LIME/LAV	189	SPSR06	
440		1131.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	251
441	5.00	1134.29	1.05	1.09	19.01	7.27	SN LD NOZ 7.5 LIME/LAV	190	SPSR06	
442		1136.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	252
443	5.00	1139.29	1.05	1.09	18.97	7.27	SN LD NOZ 7.5 LIME/LAV	191	SPSR06	
444		1141.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	253
445	5.00	1144.29	1.06	1.09	18.94	7.27	SN LD NOZ 7.5 LIME/LAV	192	SPSR06	
446		1146.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	254
447	5.00	1149.29	1.06	1.09	18.92	7.27	SN LD NOZ 7.5 LIME/LAV	193	SPSR06	
448		1151.79	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	255
449	5.00	1154.29	1.06	1.09	18.91	7.27	SN LD NOZ 7.5 LIME/LAV	194	SPSR06	
450		1156.74	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	256
451	4.90	1159.19	1.06	1.09	18.90	7.27	SN LD NOZ 7.5 LIME/LAV	195	SPSR06	
452		1161.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	257
453	5.00	1164.19	1.08	1.09	18.90	7.27	SN LD NOZ 7.5 LIME/LAV	196	SPSR06	
454		1166.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	258
455	5.00	1169.19	1.08	1.09	18.91	7.27	SN LD NOZ 7.5 LIME/LAV	197	SPSR06	
456		1171.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	259
457	5.00	1174.19	1.09	1.09	18.93	7.27	SN LD NOZ 7.5 LIME/LAV	198	SPSR06	
458		1176.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	260
459	5.00	1179.19	1.09	1.09	18.96	7.27	SN LD NOZ 7.5 LIME/LAV	199	SPSR06	
460		1181.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	261
461	5.00	1184.19	1.10	1.09	18.99	7.27	SN LD NOZ 7.5 LIME/LAV	200	SPSR06	
462		1186.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	262
463	5.00	1189.19	1.10	1.09	19.03	7.27	SN LD NOZ 7.5 LIME/LAV	201	SPSR06	
464		1191.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	263
465	5.00	1194.19	1.11	1.09	19.08	7.27	SN LD NOZ 7.5 LIME/LAV	202	SPSR06	
466		1196.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	264
467	5.00	1199.19	1.11	1.09	19.14	7.27	SN LD NOZ 7.5 LIME/LAV	203	SPSR06	
468		1201.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	265
469	5.00	1204.19	1.11	1.09	19.20	7.27	SN LD NOZ 7.5 LIME/LAV	204	SPSR06	
470		1206.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	266
471	5.00	1209.19	1.12	1.09	19.27	7.27	SN LD NOZ 7.5 LIME/LAV	205	SPSR06	
472		1211.69	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	267
473	5.00	1214.19	1.12	1.09	19.35	7.27	SN LD NOZ 7.5 LIME/LAV	206	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
521		5.00	1334.30	1.23	1.23	18.71	7.27 SN LD NOZ 8 LAVENDER	229	SPSR06	
522			1336.80	-	-	-	- - - - -	- - - - -	- - - - -	293
523		5.00	1339.30	1.24	1.23	18.74	7.27 SN LD NOZ 8 LAVENDER	230	SPSR06	
524			1341.80	-	-	-	- - - - -	- - - - -	- - - - -	294
525		5.00	1344.30	1.24	1.23	18.77	7.27 SN LD NOZ 8 LAVENDER	231	SPSR06	
526			1346.80	-	-	-	- - - - -	- - - - -	- - - - -	295
527		5.00	1349.30	1.25	1.23	18.82	7.27 SN LD NOZ 8 LAVENDER	232	SPSR06	
528			1351.80	-	-	-	- - - - -	- - - - -	- - - - -	296
529		5.00	1354.30	1.25	1.23	18.87	7.27 SN LD NOZ 8 LAVENDER	233	SPSR06	
530			1356.80	-	-	-	- - - - -	- - - - -	- - - - -	297
531		5.00	1359.30	1.26	1.23	18.92	7.27 SN LD NOZ 8 LAVENDER	234	SPSR06	
532			1361.80	-	-	-	- - - - -	- - - - -	- - - - -	298
533		5.00	1364.30	1.26	1.23	18.99	7.27 SN LD NOZ 8 LAVENDER	235	SPSR06	
534			1366.80	-	-	-	- - - - -	- - - - -	- - - - -	299
535		5.00	1369.30	1.27	1.23	19.06	7.27 SN LD NOZ 8 LAVENDER	236	SPSR06	
536			1371.80	-	-	-	- - - - -	- - - - -	- - - - -	300
537		5.00	1374.30	1.27	1.23	19.14	7.27 SN LD NOZ 8 LAVENDER	237	SPSR06	
538			1376.80	-	-	-	- - - - -	- - - - -	- - - - -	301
539		5.00	1379.30	1.28	1.23	19.23	7.27 SN LD NOZ 8 LAVENDER	238	SPSR06	
540			1381.80	-	-	-	- - - - -	- - - - -	- - - - -	302
541		5.00	1384.30	1.28	1.23	19.33	7.27 SN LD NOZ 8 LAVENDER	239	SPSR06	
542			1386.80	-	-	-	- - - - -	- - - - -	- - - - -	303
543		5.00	1389.30	1.96	1.91	19.40	7.25 SN LD NOZ 10 TURQUOISE	240	SPSR06	
544			1391.80	-	-	-	- - - - -	- - - - -	- - - - -	304
545			1394.30	-	-	-	- - - - -	- - - - -	- - - - -	305
TOWER 9		160.11	1396.81							
546			1397.01	-	-	-	- - - - -	- - - - -	- - - - -	306
547		10.21	1399.51	1.97	1.91	19.39	7.25 SN LD NOZ 10 TURQUOISE	241	SPSR06	
548			1402.01	-	-	-	- - - - -	- - - - -	- - - - -	307
549		5.00	1404.51	1.30	1.23	19.38	7.27 SN LD NOZ 8 LAVENDER	242	SPSR06	
550			1407.01	-	-	-	- - - - -	- - - - -	- - - - -	308
551		5.00	1409.51	1.31	1.23	19.26	7.27 SN LD NOZ 8 LAVENDER	243	SPSR06	
552			1412.01	-	-	-	- - - - -	- - - - -	- - - - -	309
553		5.00	1414.51	1.31	1.23	19.16	7.27 SN LD NOZ 8 LAVENDER	244	SPSR06	
554			1417.01	-	-	-	- - - - -	- - - - -	- - - - -	310
555		5.00	1419.51	1.31	1.23	19.06	7.27 SN LD NOZ 8 LAVENDER	245	SPSR06	
556			1422.01	-	-	-	- - - - -	- - - - -	- - - - -	311
557		5.00	1424.51	1.32	1.23	18.97	7.27 SN LD NOZ 8 LAVENDER	246	SPSR06	
558			1427.01	-	-	-	- - - - -	- - - - -	- - - - -	312
559		5.00	1429.51	1.32	1.23	18.88	7.27 SN LD NOZ 8 LAVENDER	247	SPSR06	
560			1432.01	-	-	-	- - - - -	- - - - -	- - - - -	313
561		5.00	1434.51	1.33	1.42	18.81	7.26 SN LD NOZ 8.5 LAV/GREY	248	SPSR06	
562			1437.01	-	-	-	- - - - -	- - - - -	- - - - -	314
563		5.00	1439.51	1.33	1.42	18.74	7.26 SN LD NOZ 8.5 LAV/GREY	249	SPSR06	
564			1442.01	-	-	-	- - - - -	- - - - -	- - - - -	315
565		5.00	1444.51	1.34	1.42	18.68	7.26 SN LD NOZ 8.5 LAV/GREY	250	SPSR06	
566			1447.01	-	-	-	- - - - -	- - - - -	- - - - -	316
567		5.00	1449.51	1.34	1.42	18.63	7.26 SN LD NOZ 8.5 LAV/GREY	251	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
663		5.00	1689.52	1.56	1.55	18.74	7.26 SN LD NOZ 9 GREY	298	SPSR06	
664			1692.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	366
665		5.00	1694.52	1.57	1.55	18.82	7.26 SN LD NOZ 9 GREY	299	SPSR06	
666			1697.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	367
667		5.00	1699.52	1.57	1.55	18.91	7.26 SN LD NOZ 9 GREY	300	SPSR06	
668			1702.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	368
669		5.00	1704.52	1.58	1.55	19.01	7.26 SN LD NOZ 9 GREY	301	SPSR06	
670			1707.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	369
671		5.00	1709.52	2.41	2.47	19.09	7.22 SN LD NOZ 11.5 YEL/RED	302	SPSR06	
672			1712.02	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	370
673			1714.52	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	371
TOWER 11		160.11	1717.03							
674			1717.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	372
675		10.21	1719.73	2.42	2.47	19.08	7.22 SN LD NOZ 11.5 YEL/RED	303	SPSR06	
676			1722.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	373
677		5.00	1724.73	1.59	1.55	19.07	7.26 SN LD NOZ 9 GREY	304	SPSR06	
678			1727.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	374
679		5.00	1729.73	1.60	1.55	18.96	7.26 SN LD NOZ 9 GREY	305	SPSR06	
680			1732.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	375
681		5.00	1734.73	1.60	1.55	18.85	7.26 SN LD NOZ 9 GREY	306	SPSR06	
682			1737.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	376
683		5.00	1739.73	1.61	1.55	18.76	7.26 SN LD NOZ 9 GREY	307	SPSR06	
684			1742.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	377
685		5.00	1744.73	1.61	1.55	18.67	7.26 SN LD NOZ 9 GREY	308	SPSR06	
686			1747.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	378
687		5.00	1749.73	1.62	1.55	18.59	7.26 SN LD NOZ 9 GREY	309	SPSR06	
688			1752.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	379
689		5.00	1754.73	1.62	1.55	18.52	7.26 SN LD NOZ 9 GREY	310	SPSR06	
690			1757.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	380
691		5.00	1759.73	1.63	1.55	18.45	7.26 SN LD NOZ 9 GREY	311	SPSR06	
692			1762.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	381
693		5.00	1764.73	1.63	1.55	18.39	7.26 SN LD NOZ 9 GREY	312	SPSR06	
694			1767.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	382
695		5.00	1769.73	1.64	1.55	18.35	7.26 SN LD NOZ 9 GREY	313	SPSR06	
696			1772.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	383
697		5.00	1774.73	1.64	1.73	18.30	7.26 SN LD NOZ 9.5 GREY/TURQ	314	SPSR06	
698			1777.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	384
699		5.00	1779.73	1.65	1.73	18.27	7.26 SN LD NOZ 9.5 GREY/TURQ	315	SPSR06	
700			1782.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	385
701		5.00	1784.73	1.65	1.73	18.25	7.26 SN LD NOZ 9.5 GREY/TURQ	316	SPSR06	
702			1787.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	386
703		5.00	1789.73	1.66	1.73	18.23	7.26 SN LD NOZ 9.5 GREY/TURQ	317	SPSR06	
704			1792.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	387
705		5.00	1794.73	1.64	1.73	18.22	7.26 SN LD NOZ 9.5 GREY/TURQ	318	SPSR06	
706			1797.18	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	388
707	4.90		1799.63	1.65	1.73	18.22	7.26 SN LD NOZ 9.5 GREY/TURQ	319	SPSR06	
708			1802.13	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	389
709		5.00	1804.63	1.67	1.73	18.22	7.26 SN LD NOZ 9.5 GREY/TURQ	320	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
757		5.00	1924.84	1.78	1.73	18.30	7.26 SN LD NOZ 9.5 GREY/TURQ	343	SPSR06	
758			1927.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	415
759		5.00	1929.84	1.78	1.73	18.25	7.26 SN LD NOZ 9.5 GREY/TURQ	344	SPSR06	
760			1932.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	416
761		5.00	1934.84	1.79	1.73	18.21	7.26 SN LD NOZ 9.5 GREY/TURQ	345	SPSR06	
762			1937.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	417
763		5.00	1939.84	1.79	1.73	18.18	7.26 SN LD NOZ 9.5 GREY/TURQ	346	SPSR06	
764			1942.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	418
765		5.00	1944.84	1.80	1.73	18.15	7.26 SN LD NOZ 9.5 GREY/TURQ	347	SPSR06	
766			1947.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	419
767		5.00	1949.84	1.80	1.73	18.14	7.26 SN LD NOZ 9.5 GREY/TURQ	348	SPSR06	
768			1952.34	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	420
769		5.00	1954.84	1.79	1.73	18.13	7.26 SN LD NOZ 9.5 GREY/TURQ	349	SPSR06	
770			1957.29	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	421
771		4.90	1959.74	1.80	1.73	18.13	7.26 SN LD NOZ 9.5 GREY/TURQ	350	SPSR06	
772			1962.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	422
773		5.00	1964.74	1.82	1.73	18.14	7.26 SN LD NOZ 9.5 GREY/TURQ	351	SPSR06	
774			1967.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	423
775		5.00	1969.74	1.82	1.91	18.15	7.25 SN LD NOZ 10 TURQUOISE	352	SPSR06	
776			1972.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	424
777		5.00	1974.74	1.83	1.91	18.17	7.25 SN LD NOZ 10 TURQUOISE	353	SPSR06	
778			1977.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	425
779		5.00	1979.74	1.83	1.91	18.20	7.25 SN LD NOZ 10 TURQUOISE	354	SPSR06	
780			1982.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	426
781		5.00	1984.74	1.84	1.91	18.24	7.25 SN LD NOZ 10 TURQUOISE	355	SPSR06	
782			1987.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	427
783		5.00	1989.74	1.84	1.91	18.29	7.25 SN LD NOZ 10 TURQUOISE	356	SPSR06	
784			1992.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	428
785		5.00	1994.74	1.84	1.91	18.34	7.25 SN LD NOZ 10 TURQUOISE	357	SPSR06	
786			1997.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	429
787		5.00	1999.74	1.85	1.91	18.40	7.25 SN LD NOZ 10 TURQUOISE	358	SPSR06	
788			2002.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	430
789		5.00	2004.74	1.85	1.91	18.47	7.25 SN LD NOZ 10 TURQUOISE	359	SPSR06	
790			2007.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	431
791		5.00	2009.74	1.86	1.91	18.55	7.25 SN LD NOZ 10 TURQUOISE	360	SPSR06	
792			2012.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	432
793		5.00	2014.74	1.86	1.91	18.64	7.25 SN LD NOZ 10 TURQUOISE	361	SPSR06	
794			2017.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	433
795		5.00	2019.74	1.86	1.91	18.73	7.25 SN LD NOZ 10 TURQUOISE	362	SPSR06	
796			2022.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	434
797		5.00	2024.74	1.87	1.91	18.83	7.25 SN LD NOZ 10 TURQUOISE	363	SPSR06	
798			2027.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	435
799		5.00	2029.74	2.85	2.96	18.91	7.19 SN LD NOZ 12.5 RED/WHITE	364	SPSR06	
800			2032.24	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	436
801			2034.74	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	437
TOWER 13	160.11		2037.25							
802			2037.45	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	438
803		10.21	2039.95	2.86	2.96	18.91	7.19 SN LD NOZ 12.5 RED/WHITE	365	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
804		2042.45	-	-	-	-	-	-	-	439
805	5.00	2044.95	1.89	1.91	18.89	7.25	SN LD NOZ 10 TURQUOISE	366	SPSR06	
806		2047.45	-	-	-	-	-	-	-	440
807	5.00	2049.95	1.89	1.91	18.78	7.25	SN LD NOZ 10 TURQUOISE	367	SPSR06	
808		2052.45	-	-	-	-	-	-	-	441
809	5.00	2054.95	1.89	1.91	18.68	7.25	SN LD NOZ 10 TURQUOISE	368	SPSR06	
810		2057.45	-	-	-	-	-	-	-	442
811	5.00	2059.95	1.90	1.91	18.59	7.25	SN LD NOZ 10 TURQUOISE	369	SPSR06	
812		2062.45	-	-	-	-	-	-	-	443
813	5.00	2064.95	1.90	1.91	18.50	7.25	SN LD NOZ 10 TURQUOISE	370	SPSR06	
814		2067.45	-	-	-	-	-	-	-	444
815	5.00	2069.95	1.91	1.91	18.42	7.25	SN LD NOZ 10 TURQUOISE	371	SPSR06	
816		2072.45	-	-	-	-	-	-	-	445
817	5.00	2074.95	1.91	1.91	18.35	7.25	SN LD NOZ 10 TURQUOISE	372	SPSR06	
818		2077.45	-	-	-	-	-	-	-	446
819	5.00	2079.95	1.92	1.91	18.29	7.25	SN LD NOZ 10 TURQUOISE	373	SPSR06	
820		2082.45	-	-	-	-	-	-	-	447
821	5.00	2084.95	1.92	1.91	18.23	7.25	SN LD NOZ 10 TURQUOISE	374	SPSR06	
822		2087.45	-	-	-	-	-	-	-	448
823	5.00	2089.95	1.93	1.91	18.19	7.25	SN LD NOZ 10 TURQUOISE	375	SPSR06	
824		2092.45	-	-	-	-	-	-	-	449
825	5.00	2094.95	1.93	1.91	18.15	7.25	SN LD NOZ 10 TURQUOISE	376	SPSR06	
826		2097.45	-	-	-	-	-	-	-	450
827	5.00	2099.95	1.94	1.91	18.12	7.25	SN LD NOZ 10 TURQUOISE	377	SPSR06	
828		2102.45	-	-	-	-	-	-	-	451
829	5.00	2104.95	1.94	1.91	18.09	7.25	SN LD NOZ 10 TURQUOISE	378	SPSR06	
830		2107.45	-	-	-	-	-	-	-	452
831	5.00	2109.95	1.95	1.91	18.08	7.25	SN LD NOZ 10 TURQUOISE	379	SPSR06	
832		2112.45	-	-	-	-	-	-	-	453
833	5.00	2114.95	1.93	1.91	18.07	7.25	SN LD NOZ 10 TURQUOISE	380	SPSR06	
834		2117.40	-	-	-	-	-	-	-	454
835	4.90	2119.85	1.94	1.91	18.07	7.25	SN LD NOZ 10 TURQUOISE	381	SPSR06	
836		2122.35	-	-	-	-	-	-	-	455
837	5.00	2124.85	1.96	1.91	18.08	7.25	SN LD NOZ 10 TURQUOISE	382	SPSR06	
838		2127.35	-	-	-	-	-	-	-	456
839	5.00	2129.85	1.97	1.91	18.09	7.25	SN LD NOZ 10 TURQUOISE	383	SPSR06	
840		2132.35	-	-	-	-	-	-	-	457
841	5.00	2134.85	1.97	1.91	18.12	7.25	SN LD NOZ 10 TURQUOISE	384	SPSR06	
842		2137.35	-	-	-	-	-	-	-	458
843	5.00	2139.85	1.98	1.91	18.15	7.25	SN LD NOZ 10 TURQUOISE	385	SPSR06	
844		2142.35	-	-	-	-	-	-	-	459
845	5.00	2144.85	1.98	1.91	18.19	7.25	SN LD NOZ 10 TURQUOISE	386	SPSR06	
846		2147.35	-	-	-	-	-	-	-	460
847	5.00	2149.85	1.99	1.91	18.23	7.25	SN LD NOZ 10 TURQUOISE	387	SPSR06	
848		2152.35	-	-	-	-	-	-	-	461
849	5.00	2154.85	1.99	2.07	18.29	7.25	SN LD NOZ 10.5 TURQ/YEL	388	SPSR06	
850		2157.35	-	-	-	-	-	-	-	462
851	5.00	2159.85	2.00	2.07	18.35	7.25	SN LD NOZ 10.5 TURQ/YEL	389	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
852		2162.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	463
853	5.00	2164.85	2.00	2.07	18.42	7.25	SN LD NOZ 10.5 TURQ/YEL	390	SPSR06	
854		2167.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	464
855	5.00	2169.85	2.00	2.07	18.50	7.25	SN LD NOZ 10.5 TURQ/YEL	391	SPSR06	
856		2172.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	465
857	5.00	2174.85	2.01	2.07	18.59	7.25	SN LD NOZ 10.5 TURQ/YEL	392	SPSR06	
858		2177.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	466
859	5.00	2179.85	2.01	2.07	18.68	7.25	SN LD NOZ 10.5 TURQ/YEL	393	SPSR06	
860		2182.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	467
861	5.00	2184.85	2.01	2.07	18.78	7.25	SN LD NOZ 10.5 TURQ/YEL	394	SPSR06	
862		2187.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	468
863	5.00	2189.85	3.07	2.96	18.86	7.19	SN LD NOZ 12.5 RED/WHITE	395	SPSR06	
864		2192.35	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	469
865		2194.85	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	470
TOWER 14	160.11	2197.36	PIPE ID CHANGES FROM 8.415 TO 6.415							
866		2197.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	471
867	10.21	2200.06	3.09	3.19	18.85	7.17	SN LD NOZ 13 WHITE	396	SPSR06	
868		2202.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	472
869	5.00	2205.06	2.03	2.07	18.82	7.25	SN LD NOZ 10.5 TURQ/YEL	397	SPSR06	
870		2207.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	473
871	5.00	2210.06	2.04	2.07	18.71	7.25	SN LD NOZ 10.5 TURQ/YEL	398	SPSR06	
872		2212.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	474
873	5.00	2215.06	2.04	2.07	18.62	7.25	SN LD NOZ 10.5 TURQ/YEL	399	SPSR06	
874		2217.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	475
875	5.00	2220.06	2.05	2.07	18.53	7.25	SN LD NOZ 10.5 TURQ/YEL	400	SPSR06	
876		2222.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	476
877	5.00	2225.06	2.05	2.07	18.46	7.25	SN LD NOZ 10.5 TURQ/YEL	401	SPSR06	
878		2227.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	477
879	5.00	2230.06	2.05	2.07	18.39	7.25	SN LD NOZ 10.5 TURQ/YEL	402	SPSR06	
880		2232.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	478
881	5.00	2235.06	2.06	2.07	18.33	7.25	SN LD NOZ 10.5 TURQ/YEL	403	SPSR06	
882		2237.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	479
883	5.00	2240.06	2.06	2.07	18.28	7.25	SN LD NOZ 10.5 TURQ/YEL	404	SPSR06	
884		2242.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	480
885	5.00	2245.06	2.07	2.07	18.24	7.25	SN LD NOZ 10.5 TURQ/YEL	405	SPSR06	
886		2247.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	481
887	5.00	2250.06	2.07	2.07	18.21	7.25	SN LD NOZ 10.5 TURQ/YEL	406	SPSR06	
888		2252.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	482
889	5.00	2255.06	2.08	2.07	18.18	7.25	SN LD NOZ 10.5 TURQ/YEL	407	SPSR06	
890		2257.56	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	483
891	5.00	2260.06	2.09	2.07	18.17	7.25	SN LD NOZ 10.5 TURQ/YEL	408	SPSR06	
892		2262.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	484
893	5.06	2265.12	2.10	2.07	18.16	7.25	SN LD NOZ 10.5 TURQ/YEL	409	SPSR06	
894		2267.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	485
895	5.00	2270.12	2.09	2.07	18.16	7.25	SN LD NOZ 10.5 TURQ/YEL	410	SPSR06	
896		2272.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	486
897	5.00	2275.12	2.10	2.07	18.18	7.25	SN LD NOZ 10.5 TURQ/YEL	411	SPSR06	

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE	SPRK NO.	REG SIZE	PLUG NO.
992		2512.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	536
993	9.93	2515.23	3.46	3.44	18.73	7.16	SN LD NOZ 13.5 WHITE/BLUE	457	SPSR06	
994		2517.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	537
995	5.00	2520.23	2.33	2.25	18.69	7.23	SN LD NOZ 11 YELLOW	458	SPSR06	
996		2522.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	538
997	5.00	2525.23	2.34	2.25	18.65	7.23	SN LD NOZ 11 YELLOW	459	SPSR06	
998		2527.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	539
999	5.00	2530.23	2.35	2.25	18.61	7.23	SN LD NOZ 11 YELLOW	460	SPSR06	
1000		2532.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	540
1001	5.00	2535.23	2.37	2.47	18.57	7.22	SN LD NOZ 11.5 YEL/RED	461	SPSR06	
1002		2537.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	541
1003	5.00	2540.23	2.36	2.25	18.53	7.23	SN LD NOZ 11 YELLOW	462	SPSR06	
1004		2542.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	542
1005	5.00	2545.23	2.38	2.47	18.49	7.22	SN LD NOZ 11.5 YEL/RED	463	SPSR06	
1006		2547.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	543
			PIPE ID CHANGES FROM 6.415 TO 3.790							
1007	5.00	2550.23	2.37	2.47	18.45	7.22	SN LD NOZ 11.5 YEL/RED	464	SPSR06	
1008		2552.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	544
1009	5.00	2555.23	2.35	2.25	18.41	7.23	SN LD NOZ 11 YELLOW	465	SPSR06	
1010		2557.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	545
1011	5.00	2560.23	2.38	2.47	18.37	7.22	SN LD NOZ 11.5 YEL/RED	466	SPSR06	
1012		2562.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	546
1013	5.00	2565.23	2.35	2.25	18.33	7.23	SN LD NOZ 11 YELLOW	467	SPSR06	
1014		2567.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	547
1015	5.00	2570.23	2.42	2.47	18.29	7.22	SN LD NOZ 11.5 YEL/RED	468	SPSR06	
1016		2572.73	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	548
1017	5.00	2575.23	2.49	2.47	18.25	7.22	SN LD NOZ 11.5 YEL/RED	469	SPSR06	
		DRAIN-SANDTRAP	4.46	4.17			F SPRAY 12 RED			
OVERHANG	64.00	2576.53								

TOTAL GPM = 625.39

GPA = 1.30

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI
 WITH GRADUATED ELEVATION OF 26.00 FT THE INLET PRESSURE IS 11.82 PSI FOR SPRINKLER 469
 THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	PERCENT DEVIATION	GPM PER ACRE	AVERAGE IN. PER HR DELIVERED UNDER SPAN	AVERAGE IN. DELIVERED FOR REVOLUTION TIME		
							36 HR	48 HR	60 HR
1	.97	1.26	4.57	264%	4.71	0.010	0.38	0.50	0.63
2	4.53	5.87	7.96	36%	1.76	0.004	0.14	0.19	0.23
3	8.22	10.66	10.52	-1%	1.28	0.003	0.10	0.14	0.17
4	11.92	15.45	15.55	1%	1.30	0.003	0.10	0.14	0.17

5	15.62	20.24	20.11	-1%	1.29	0.003	0.10	0.14	0.17
6	19.32	25.04	24.73	-1%	1.28	0.003	0.10	0.14	0.17
7	23.01	29.83	29.59	-1%	1.29	0.003	0.10	0.14	0.17
8	26.71	34.62	34.27	-1%	1.28	0.003	0.10	0.14	0.17
9	30.41	39.41	39.15	-1%	1.29	0.003	0.10	0.14	0.17
10	34.11	44.21	44.29	0%	1.30	0.003	0.10	0.14	0.17
11	37.81	49.00	48.57	-1%	1.28	0.003	0.10	0.14	0.17
12	41.50	53.79	53.52	-1%	1.29	0.003	0.10	0.14	0.17
13	45.20	58.58	58.01	-1%	1.28	0.003	0.10	0.14	0.17
14	48.90	63.38	62.55	-1%	1.28	0.003	0.10	0.14	0.17
15	44.19	57.27	55.94	-2%	1.27	0.003	0.10	0.13	0.17
16	62.87	81.48	80.95	-1%	1.29	0.003	0.10	0.14	0.17
OVERHANG	23.49	30.45	30.97	2%	1.32	0.003	0.10	0.14	0.17
TOTAL	478.78	620.54	621.22		1.30				

SUMMARY OF SPRINKLERS

34 SN LD NOZ 4 LT BLUE
13 SN LD NOZ 4.5 LT BL/BEIGE
32 SN LD NOZ 5 BEIGE
24 SN LD NOZ 5.5 BEIGE/GOLD
23 SN LD NOZ 6 GOLD
26 SN LD NOZ 6.5 GOLD/LIME
26 SN LD NOZ 7 LIME
28 SN LD NOZ 7.5 LIME/LAV
35 SN LD NOZ 8 LAVENDER
32 SN LD NOZ 8.5 LAV/GREY
32 SN LD NOZ 9 GREY
38 SN LD NOZ 9.5 GREY/TURQ
36 SN LD NOZ 10 TURQUOISE
31 SN LD NOZ 10.5 TURQ/YEL
41 SN LD NOZ 11 YELLOW
8 SN LD NOZ 11.5 YEL/RED
2 SN LD NOZ 12 RED
3 SN LD NOZ 12.5 RED/WHITE
3 SN LD NOZ 13 WHITE
2 SN LD NOZ 13.5 WHITE/BLUE

548 PLUGS**SUMMARY OF REGULATORS**

54 Senn FPSR2 10 psi
74 Senn FPSR2 6 psi
341 Senn PSR 6 psi

TOTAL OF 469 REGULATORS

NOZZLE POSITION CHART

SN LD NOZ 4 LT BLUE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 36
SN LD NOZ 4.5 LT BL/BEIGE	33, 34, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47
SN LD NOZ 5 BEIGE	48, 49, 50, 51, 52, 53, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81
SN LD NOZ 5.5 BEIGE/GOLD	54, 55, 82, 83, 84, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105
SN LD NOZ 6 GOLD	106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130
SN LD NOZ 6.5 GOLD/LIME	85, 86, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 149, 150, 151, 152, 153, 154, 155, 156
SN LD NOZ 7 LIME	157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 180, 181, 182, 183, 184
SN LD NOZ 7.5 LIME/LAV	116, 117, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 211, 212
SN LD NOZ 8 LAVENDER	147, 148, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 242, 243, 244, 245, 246, 247
SN LD NOZ 8.5 LAV/GREY	248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 273, 274, 275, 276, 277, 278, 279, 280, 281
SN LD NOZ 9 GREY	178, 179, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313
SN LD NOZ 9.5 GREY/TURQ	209, 210, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351
SN LD NOZ 10 TURQUOISE	240, 241, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387
SN LD NOZ 10.5 TURQ/YEL	388, 389, 390, 391, 392, 393, 394, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420
SN LD NOZ 11 YELLOW	271, 272, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 458, 459, 460, 462, 465, 467
SN LD NOZ 11.5 YEL/RED	302, 303, 461, 463, 464, 466, 468, 469
SN LD NOZ 12 RED	333, 334
SN LD NOZ 12.5 RED/WHITE	364, 365, 395
SN LD NOZ 13 WHITE	396, 421, 422
SN LD NOZ 13.5 WHITE/BLUE	456, 457

WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

SEPTEMBER 26, 2025
WISH-119626
PARKS BROTHERS
SECTION 2-31-40
625 GPM @ 22 PSI

VALLEY 8000 - 30

SENNINGER HD LOW DRIFT SPRAY NOZZLES
SENNINGER 10 & 6 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 28.02 Hours Or 1681 minutes

Installation Chart

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
1	PLUG				27	PLUG				22	PLUG				17	PLUG				12	PLUG			FPSR06
2	PLUG				28	PLUG				23	PLUG	41	4.5	FPSR10	18	PLUG	63	5	FPSR06	13	PLUG			
3		1	4	FPSR10	29		22	4	FPSR10	24	PLUG				19	PLUG				14	PLUG			FPSR06
4		2	4	FPSR10	30	PLUG				25	PLUG				20	PLUG	64	5	FPSR06	15	PLUG			
5		3	4	FPSR10	31	PLUG				26	PLUG	42	4.5	FPSR10	21	PLUG				16	PLUG			FPSR06
6	PLUG				32		23	4	FPSR10	27	PLUG				22	PLUG	65	5	FPSR06	17	PLUG			
7		4	4	FPSR10	33	PLUG				28	PLUG				23	PLUG				18	PLUG			FPSR06
8	PLUG				34	PLUG				29	PLUG	43	4.5	FPSR10	24	PLUG	66	5	FPSR06	19	PLUG			
9	PLUG				35		24	4	FPSR10	30	PLUG				25	PLUG				20	PLUG			FPSR06
10		5	4	FPSR10	36	PLUG				31	PLUG	44	4.5	FPSR10	27	PLUG	67	5	FPSR06	21	PLUG			
11	PLUG				37	PLUG				32	PLUG				28	PLUG	68	5	FPSR06	23	PLUG			
12	PLUG				38		25	4	FPSR10	33	PLUG				29	PLUG				24	PLUG			FPSR06
13		6	4	FPSR10	39	PLUG				34	PLUG	45	4.5	FPSR10	30	PLUG	69	5	FPSR06	25	PLUG			
14	PLUG				40	PLUG				35	PLUG				31	PLUG				26	PLUG			FPSR06
15	PLUG				41		26	4	FPSR10	36	PLUG				32	PLUG	70	5	FPSR06	27	PLUG			
16		7	4	FPSR10	42	PLUG				37	PLUG	46	4.5	FPSR10	33	PLUG				28	PLUG			FPSR06
17	PLUG				43	PLUG				38	PLUG				34	PLUG	71	5	FPSR06	29	PLUG			
18	PLUG				44		27	4	FPSR10	39	PLUG				35	PLUG				30	PLUG			FPSR06
19		8	4	FPSR10	45	PLUG				40	PLUG	47	4.5	FPSR10	36	PLUG				100	PLUG			FPSR06
20	PLUG				46	PLUG				41	PLUG				37	PLUG	72	5	FPSR06	31	PLUG			
21	PLUG				47		28	4	FPSR10	42	PLUG				38	PLUG	73	5	FPSR06	33	PLUG			
22		9	4	FPSR10	48	PLUG				43	PLUG	48	5	FPSR10	39	PLUG				34	PLUG			FPSR06
23	PLUG				49	PLUG				44	PLUG				40	PLUG	74	5	FPSR06	35	PLUG			
24	PLUG				50		29	4	FPSR10	45	PLUG				41	PLUG				36	PLUG			FPSR06
25		10	4	FPSR10	51	PLUG				46	PLUG				42	PLUG	75	5	FPSR06	37	PLUG			
26	PLUG				52	PLUG				47	PLUG	49	5	FPSR10	43	PLUG				38	PLUG			FPSR06
27	PLUG				53		30	4	FPSR10	48	PLUG				44	PLUG	76	5	FPSR06	39	PLUG			
28		11	4	FPSR10	54	PLUG				49	PLUG				45	PLUG				40	PLUG			FPSR06
29	PLUG				55	PLUG				50	PLUG	50	5	FPSR10	46	PLUG				105	PLUG			FPSR06
30	PLUG				56		31	4	FPSR10	51	PLUG				47	PLUG	77	5	FPSR06	41	PLUG			
31		12	4	FPSR10	57	PLUG				52	PLUG				48	PLUG	78	5	FPSR06	42	PLUG			FPSR06
32	PLUG				58	PLUG				53	PLUG	51	5	FPSR10	49	PLUG				43	PLUG			
33	PLUG				59		32	4	FPSR10	54	PLUG				49	PLUG	79	5	FPSR06	44	PLUG			
TOWER 1					60	PLUG				55	PLUG				50	PLUG				45	PLUG			
	PLUG				61	PLUG				56	PLUG	52	5	FPSR10	51	PLUG				46	PLUG			
1		13	4	FPSR10	62		33	4.5	FPSR10	57	PLUG				52	PLUG	80	5	FPSR06	47	PLUG			
2	PLUG				63	PLUG				58	PLUG				53	PLUG				48	PLUG			FPSR06
3	PLUG				64	PLUG				59	PLUG	53	5	FPSR10	54	PLUG				49	PLUG			
5		14	4	FPSR10	1	PLUG				60	PLUG				55	PLUG	81	5	FPSR06	50	PLUG			
6	PLUG				2		34	4.5	FPSR10	62	PLUG				56	PLUG				51	PLUG			
7	PLUG				3	PLUG				63	PLUG	54	5.5	FPSR10	57	PLUG				52	PLUG			
8		15	4	FPSR10	4	PLUG				64	PLUG	55	5.5	FPSR10	58	PLUG				53	PLUG			
10	PLUG				5					1					59	PLUG	83	5.5	FPSR06	54	PLUG			
11	PLUG				6	PLUG				2					60	PLUG	84	5.5	FPSR06	55	PLUG			
12	PLUG				7	PLUG				3					61	PLUG				56	PLUG			
13	PLUG				8		36	4	FPSR10	4					62	PLUG	85	6.5	PSR06	57	PLUG			
14		17	4	FPSR10	9	PLUG				5					63	PLUG				58	PLUG			
15	PLUG				10	PLUG				6					64	PLUG				59	PLUG			
16	PLUG				11		37	4.5	FPSR10	7					1	PLUG				60	PLUG			
17		18	4	FPSR10	12	PLUG				8					2	PLUG				61	PLUG			
18	PLUG				13	PLUG				9					3	PLUG				62	PLUG			
19	PLUG				14		38	4.5	FPSR10	10					4	PLUG				63	PLUG			
20		19	4	FPSR10	15	PLUG				11					5	PLUG				64	PLUG			
21	PLUG				16	PLUG				12					6	PLUG				115	PLUG			
22	PLUG				17		39	4.5	FPSR10	13					7	PLUG				116	PLUG			
23		20	4	FPSR10	18	PLUG				14					8	PLUG				117	PLUG			
24	PLUG				19	PLUG				15					9	PLUG				118	PLUG			
25	PLUG				20		40	4.5	FPSR10	16					10	PLUG				119	PLUG			
26		21	4	FPSR10	21	PLUG				17					11	PLUG				6	PLUG			

WESTERN KANSAS IRRIGATION
125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

SEPTEMBER 26, 2025
 WISH-119626
 PARKS BROTHERS
 SECTION 2-31-40
 625 GPM @ 22 PSI

VALLEY 8000 - 30
 SENNINGER HD LOW DRIFT SPRAY NOZZLES
 SENNINGER 10 & 6 PSI REGULATORS
 .75 I.D. FLEXIBLE HOSE
 NO ENDGUN

Rotation time at 100% = 28.02 Hours Or 1681 minutes

Installation Chart

Page 2

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
7	PLUG	120	6	FPSR06	2	PLUG	148	8	PSR06	62	PLUG	178	9	PSR06	57	PLUG	207	7.5	PSR06	52	PLUG	235	8	PSR06
8	PLUG	121	6	FPSR06	3	PLUG	149	6.5	PSR06	63	PLUG	207	7.5	PSR06	53	PLUG	236	8	PSR06	54	PLUG	236	8	PSR06
9	PLUG	122	6	FPSR06	4	PLUG	150	6.5	PSR06	64	TOWER 7	208	7.5	PSR06	55	PLUG	237	8	PSR06	56	PLUG	237	8	PSR06
10	PLUG	123	6	FPSR06	5	PLUG	151	6.5	PSR06	1	PLUG	179	9	PSR06	61	PLUG	209	9.5	PSR06	57	PLUG	238	8	PSR06
11	PLUG	124	6	FPSR06	6	PLUG	152	6.5	PSR06	2	PLUG	180	7	PSR06	62	PLUG	210	9.5	PSR06	58	PLUG	239	8	PSR06
12	PLUG	125	6	FPSR06	7	PLUG	153	6.5	PSR06	3	PLUG	181	7	PSR06	1	PLUG	211	7.5	PSR06	60	PLUG	239	8	PSR06
13	PLUG	126	6	FPSR06	8	PLUG	154	6.5	PSR06	4	PLUG	182	7	PSR06	2	PLUG	212	7.5	PSR06	61	PLUG	240	10	PSR06
14	PLUG	127	6	FPSR06	9	PLUG	155	6.5	PSR06	5	PLUG	183	7	PSR06	3	PLUG	213	8	PSR06	62	PLUG	240	10	PSR06
15	PLUG	128	6	FPSR06	10	PLUG	156	6.5	PSR06	6	PLUG	184	7	PSR06	4	PLUG	214	8	PSR06	63	PLUG	241	10	PSR06
16	PLUG	129	6	FPSR06	11	PLUG	157	7	PSR06	7	PLUG	185	7.5	PSR06	5	PLUG	215	8	PSR06	64	TOWER 8	241	10	PSR06
17	PLUG	130	6	FPSR06	12	PLUG	158	7	PSR06	8	PLUG	186	7.5	PSR06	6	PLUG	216	8	PSR06	65	PLUG	242	8	PSR06
18	PLUG	131	6.5	FPSR06	13	PLUG	159	7	PSR06	9	PLUG	187	7.5	PSR06	7	PLUG	217	8	PSR06	66	PLUG	243	8	PSR06
19	PLUG	132	6.5	FPSR06	14	PLUG	160	7	PSR06	10	PLUG	188	7.5	PSR06	8	PLUG	218	8	PSR06	67	PLUG	244	8	PSR06
20	PLUG	133	6.5	PSR06	15	PLUG	161	7	PSR06	11	PLUG	189	7.5	PSR06	9	PLUG	219	8	PSR06	68	PLUG	245	8	PSR06
21	PLUG	134	6.5	PSR06	16	PLUG	162	7	PSR06	12	PLUG	190	7.5	PSR06	10	PLUG	220	8	PSR06	69	PLUG	245	8	PSR06
22	PLUG	135	6.5	PSR06	17	PLUG	163	7	PSR06	13	PLUG	191	7.5	PSR06	11	PLUG	221	8	PSR06	70	PLUG	246	8	PSR06
23	PLUG	136	6.5	PSR06	18	PLUG	164	7	PSR06	14	PLUG	192	7.5	PSR06	12	PLUG	222	8	PSR06	71	PLUG	247	8	PSR06
24	PLUG	137	6.5	PSR06	19	PLUG	165	7	PSR06	15	PLUG	193	7.5	PSR06	13	PLUG	223	8	PSR06	72	PLUG	248	8.5	PSR06
25	PLUG	138	6.5	PSR06	20	PLUG	166	7	PSR06	16	PLUG	194	7.5	PSR06	14	PLUG	224	8	PSR06	73	PLUG	249	8.5	PSR06
26	PLUG	139	6.5	PSR06	21	PLUG	167	7	PSR06	17	PLUG	195	7.5	PSR06	15	PLUG	225	8	PSR06	74	PLUG	250	8.5	PSR06
27	PLUG	140	6.5	PSR06	22	PLUG	168	7	PSR06	18	PLUG	196	7.5	PSR06	16	PLUG	226	8	PSR06	75	PLUG	251	8.5	PSR06
28	PLUG	141	6.5	PSR06	23	PLUG	169	7	PSR06	19	PLUG	197	7.5	PSR06	17	PLUG	227	8	PSR06	76	PLUG	252	8.5	PSR06
29	PLUG	142	6.5	PSR06	24	PLUG	170	7	PSR06	20	PLUG	198	7.5	PSR06	18	PLUG	228	8	PSR06	77	PLUG	253	8.5	PSR06
30	PLUG	143	6.5	PSR06	25	PLUG	171	7	PSR06	21	PLUG	199	7.5	PSR06	19	PLUG	229	8	PSR06	78	PLUG	254	8.5	PSR06
31	PLUG	144	6.5	PSR06	26	PLUG	172	7	PSR06	22	PLUG	200	7.5	PSR06	20	PLUG	230	8	PSR06	79	PLUG	255	8.5	PSR06
32	PLUG	145	6.5	PSR06	27	PLUG	173	7	PSR06	23	PLUG	201	7.5	PSR06	21	PLUG	231	8	PSR06	80	PLUG	255	8.5	PSR06
33	PLUG	146	6.5	PSR06	28	PLUG	174	7	PSR06	24	PLUG	202	7.5	PSR06	22	PLUG	232	8	PSR06	81	PLUG	256	8.5	PSR06
34	PLUG	147	8	PSR06	29	PLUG	175	7	PSR06	25	PLUG	203	7.5	PSR06	23	PLUG	233	8	PSR06	82	PLUG	257	8.5	PSR06
35	PLUG	148	8	PSR06	30	PLUG	176	7	PSR06	26	PLUG	204	7.5	PSR06	24	PLUG	234	8	PSR06	83	PLUG	258	8.5	PSR06
36	PLUG	149	8	PSR06	31	PLUG	177	7	PSR06	27	PLUG	205	7.5	PSR06	25	PLUG	235	8	PSR06	84	PLUG	259	8.5	PSR06
37	PLUG	150	8	PSR06	32	PLUG	178	7	PSR06	28	PLUG	206	7.5	PSR06	26	PLUG	236	8	PSR06	85	PLUG	260	8.5	PSR06
38	PLUG	151	8	PSR06	33	PLUG	179	7	PSR06	29	PLUG	207	7.5	PSR06	27	PLUG	237	8	PSR06	86	PLUG	261	8.5	PSR06
39	PLUG	152	8	PSR06	34	PLUG	180	7	PSR06	30	PLUG	208	7.5	PSR06	28	PLUG	238	8	PSR06	87	PLUG	262	8.5	PSR06
40	PLUG	153	8	PSR06	35	PLUG	181	7	PSR06	31	PLUG	209	7.5	PSR06	29	PLUG	239	8	PSR06	88	PLUG	263	8.5	PSR06
41	PLUG	154	8	PSR06	36	PLUG	182	7	PSR06	32	PLUG	210	7.5	PSR06	30	PLUG	240	10	PSR06	89	PLUG	263	8.5	PSR06
42	PLUG	155	8	PSR06	37	PLUG	183	7	PSR06	33	PLUG	211	7.5	PSR06	31	PLUG	241	10	PSR06	90	PLUG	263	8.5	PSR06
43	PLUG	156	8	PSR06	38	PLUG	184	7	PSR06	34	PLUG	212	7.5	PSR06	32	PLUG	242	8	PSR06	91	PLUG	263	8.5	PSR06
44	PLUG	157	8	PSR06	39	PLUG	185	7	PSR06	35	PLUG	213	8	PSR06	33	PLUG	243	8	PSR06	92	PLUG	263	8.5	PSR06
45	PLUG	158	8	PSR06	40	PLUG	186	7	PSR06	36	PLUG	214	8	PSR06	34	PLUG	244	8	PSR06	93	PLUG	263	8.5	PSR06
46	PLUG	159	8	PSR06	41	PLUG	187	7	PSR06	37	PLUG	215	8	PSR06	35	PLUG	245	8	PSR06	94	PLUG	263	8.5	PSR06
47	PLUG	160	8	PSR06	42	PLUG	188	7	PSR06	38	PLUG	216	8	PSR06	36	PLUG	246	8	PSR06	95	PLUG	263	8.5	PSR06
48	PLUG	161	8	PSR06	43	PLUG	189	7	PSR06	39	PLUG	217	8	PSR06	37	PLUG	247	8	PSR06	96	PLUG	263	8.5	PSR06
49	PLUG	162	8	PSR06	44	PLUG	190	7	PSR06	40	PLUG	218	8	PSR06	38	PLUG	248	8	PSR06	97	PLUG	263	8.5	PSR06
50	PLUG	163	8	PSR06	45	PLUG	191	7	PSR06	41	PLUG	219	8	PSR06	39	PLUG	249	8	PSR06	98	PLUG	263	8.5	PSR06
51	PLUG	164	8	PSR06	46	PLUG	192	7	PSR06	42	PLUG	220	8	PSR06	40	PLUG	250	8	PSR06	99	PLUG	263	8.5	PSR06
52	PLUG	165	8	PSR06	47	PLUG	193	7	PSR06	43	PLUG	221	8	PSR06	41	PLUG	251	8	PSR06	100	PLUG	263	8.5	PSR06
53	PLUG	166	8	PSR06	48	PLUG	194	7	PSR06	44	PLUG	222	8	PSR06	42	PLUG	252	8	PSR06	101	PLUG	263	8.5	PSR06
54	PLUG	167	8	PSR06	49	PLUG	195	7	PSR06	45	PLUG	223	8	PSR06	43	PLUG	253	8	PSR06	102	PLUG	263	8.5	PSR06
55	PLUG	168	8	PSR06	50	PLUG	196	7	PSR06	46	PLUG	224	8	PSR06	44	PLUG	254	8	PSR06	103	PLUG	263	8.5	PSR06
56	PLUG	169	8	PSR06	51	PLUG	197	7	PSR06	47	PLUG	225	8	PSR06	45	PLUG	255	8	PSR06	104	PLUG	263	8.5	PSR06
57	PLUG	170	8	PSR06	52	PLUG	198	7	PSR06	48	PLUG	226	8	PSR06	46	PLUG	256	8	PSR06	105	PLUG	263	8.5	PSR06
58	PLUG	171	8	PSR06	53	PLUG	199	7	PSR06	49	PLUG	227	8	PSR06	47	PLUG	257	8	PSR06	106	PLUG	263	8.5	PSR06
59	PLUG	172	8	PSR06	54	PLUG	200	7	PSR06	50	PLUG	228	8	PSR06	48	PLUG	258	8	PSR06	107	PLUG	263	8.5	PSR06
60	PLUG	173	8	PSR06	55	PLUG	201	7	PSR06	51	PLUG	229	8	PSR06	49	PLUG	259	8	PSR06	108	PLUG	263	8.5	PSR06
61	PLUG																							

WESTERN KANSAS IRRIGATION
125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

SEPTEMBER 26, 2025
 WISH-119626
 PARKS BROTHERS
 SECTION 2-31-40
 625 GPM @ 22 PSI

VALLEY 8000 - 30
 SENNINGER HD LOW DRIFT SPRAY NOZZLES
 SENNINGER 10 & 6 PSI REGULATORS
 .75 I.D. FLEXIBLE HOSE
 NO ENDGUN

Rotation time at 100% = 28.02 Hours Or 1681 minutes

Installation Chart

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Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg
47	PLUG	264	8.5	PSR06	42	PLUG	292	9	PSR06	37	PLUG	321	9.5	PSR06	32	PLUG	349	9.5	PSR06	27	PLUG	378	10	PSR06
48	PLUG	265	8.5	PSR06	43	PLUG	293	9	PSR06	38	PLUG	322	9.5	PSR06	33	PLUG	350	9.5	PSR06	28	PLUG	379	10	PSR06
49	PLUG	266	8.5	PSR06	44	PLUG	294	9	PSR06	39	PLUG	323	9.5	PSR06	34	PLUG	351	9.5	PSR06	29	PLUG	380	10	PSR06
50	PLUG	267	8.5	PSR06	45	PLUG	295	9	PSR06	40	PLUG	324	9.5	PSR06	35	PLUG	352	10	PSR06	30	PLUG	381	10	PSR06
51	PLUG	268	8.5	PSR06	46	PLUG	296	9	PSR06	41	PLUG	325	9.5	PSR06	36	PLUG	353	10	PSR06	31	PLUG	382	10	PSR06
52	PLUG	269	8.5	PSR06	47	PLUG	297	9	PSR06	42	PLUG	326	9.5	PSR06	37	PLUG	354	10	PSR06	32	PLUG	383	10	PSR06
53	PLUG	270	8.5	PSR06	48	PLUG	298	9	PSR06	43	PLUG	327	9.5	PSR06	44	PLUG	355	10	PSR06	33	PLUG	384	10	PSR06
54	PLUG	271	11	PSR06	49	PLUG	299	9	PSR06	44	PLUG	328	9.5	PSR06	45	PLUG	356	10	PSR06	34	PLUG	385	10	PSR06
55	PLUG	272	11	PSR06	50	PLUG	300	9	PSR06	46	PLUG	329	9.5	PSR06	46	PLUG	357	10	PSR06	35	PLUG	386	10	PSR06
56	PLUG	273	8.5	PSR06	51	PLUG	301	9	PSR06	47	PLUG	330	9.5	PSR06	47	PLUG	358	10	PSR06	36	PLUG	387	10	PSR06
57	PLUG	274	8.5	PSR06	52	PLUG	302	11.5	PSR06	48	PLUG	331	9.5	PSR06	48	PLUG	359	10	PSR06	37	PLUG	388	10.5	PSR06
58	PLUG	275	8.5	PSR06	53	PLUG	303	11.5	PSR06	49	PLUG	332	9.5	PSR06	49	PLUG	360	10	PSR06	38	PLUG	389	10.5	PSR06
59	PLUG	276	8.5	PSR06	54	PLUG	304	9	PSR06	50	PLUG	333	12	PSR06	50	PLUG	361	10	PSR06	39	PLUG	390	10.5	PSR06
60	PLUG	277	8.5	PSR06	55	PLUG	305	9	PSR06	51	PLUG	334	12	PSR06	51	PLUG	362	10	PSR06	40	PLUG	391	10.5	PSR06
61	PLUG	278	8.5	PSR06	56	PLUG	306	9	PSR06	52	PLUG	335	9.5	PSR06	52	PLUG	363	10	PSR06	41	PLUG	392	10.5	PSR06
62	PLUG	279	8.5	PSR06	57	PLUG	307	9	PSR06	53	PLUG	336	9.5	PSR06	53	PLUG	364	12.5	PSR06	42	PLUG	393	10.5	PSR06
63	PLUG	280	8.5	PSR06	58	PLUG	308	9	PSR06	54	PLUG	337	9.5	PSR06	54	PLUG	365	12.5	PSR06	43	PLUG	394	10.5	PSR06
64	PLUG	281	8.5	PSR06	59	PLUG	309	9	PSR06	55	PLUG	338	9.5	PSR06	55	PLUG	366	10	PSR06	44	PLUG	395	12.5	PSR06
65	PLUG	282	9	PSR06	60	PLUG	310	9	PSR06	56	PLUG	339	9.5	PSR06	56	PLUG	367	10	PSR06	45	PLUG	396	13	PSR06
66	PLUG	283	9	PSR06	61	PLUG	311	9	PSR06	57	PLUG	340	9.5	PSR06	57	PLUG	368	10	PSR06	46	PLUG	397	10.5	PSR06
67	PLUG	284	9	PSR06	62	PLUG	312	9	PSR06	58	PLUG	341	9.5	PSR06	58	PLUG	369	10	PSR06	47	PLUG	398	10.5	PSR06
68	PLUG	285	9	PSR06	63	PLUG	313	9	PSR06	59	PLUG	342	9.5	PSR06	59	PLUG	370	10	PSR06	48	PLUG	399	10.5	PSR06
69	PLUG	286	9	PSR06	64	PLUG	314	9.5	PSR06	60	PLUG	343	9.5	PSR06	60	PLUG	371	10	PSR06	49	PLUG	400	10.5	PSR06
70	PLUG	287	9	PSR06	65	PLUG	315	9.5	PSR06	61	PLUG	344	9.5	PSR06	61	PLUG	372	10	PSR06	50	PLUG	401	10.5	PSR06
71	PLUG	288	9	PSR06	66	PLUG	316	9.5	PSR06	62	PLUG	345	9.5	PSR06	62	PLUG	373	10	PSR06	51	PLUG	402	10.5	PSR06
72	PLUG	289	9	PSR06	67	PLUG	317	9.5	PSR06	63	PLUG	346	9.5	PSR06	63	PLUG	374	10	PSR06	52	PLUG	403	10.5	PSR06
73	PLUG	290	9	PSR06	68	PLUG	318	9.5	PSR06	64	PLUG	347	9.5	PSR06	64	PLUG	375	10	PSR06	53	PLUG	404	10.5	PSR06
74	PLUG	291	9	PSR06	69	PLUG	319	9.5	PSR06	65	PLUG	348	9.5	PSR06	65	PLUG	376	10	PSR06	54	PLUG	405	10.5	PSR06
75	PLUG	292	9	PSR06	70	PLUG	320	9.5	PSR06	66	PLUG	349	9.5	PSR06	66	PLUG	377	10	PSR06	55	PLUG			

WESTERN KANSAS IRRIGATION

125 N. FRONTAGE ROAD
JOHNSON, KANSAS 67855

SEPTEMBER 26, 2025
WISH-119626
PARKS BROTHERS
SECTION 2-31-40
625 GPM @ 22 PSI

Rotation time at 100% = 28.02 Hours Or 1681 minutes

VALLEY 8000 - 30

SENNINGER HD LOW DRIFT SPRAY NOZZLES

SENNINGER 10 & 6 PSI REGULATORS

.75 I.D. FLEXIBLE HOSE

NO ENDGUN

Installation Chart

Page 4

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119626

SEPTEMBER 26, 2025

DEALER - WESTERN KANSAS IRRIGATION

IRRIGATOR - PARKS BROTHERS
FIELD - SECTION 2-31-40

TOTAL LENGTH PIPE = 2576.53 SYSTEM PRESSURE = 22 PSI
 GPM UNDER PIPE = 625.39 TOTAL GPM = 625.39
 ACRES UNDER PIPE = 478.78
 RANGE OF ENDGUN = .00 RUN FOR MINIMUM PRESSURE
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = .6
 LOADED MOTOR RPM = 1800
 CENTER GEAR BOX RATIO = 53
 WHEEL GEAR BOX RATIO = 52
 TIRE SIZE = 11.2 X 38
 LAST TOWER SPEED (FPM) = 9.39

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.08	100.00	28.02 - 1681(min)	100.00	.08	28.02 - 1681(min)
.10	80.87	34.65	90.00	.09	31.13
.20	40.44	69.29	80.00	.10	35.03
.25	32.35	86.62	70.00	.12	40.03
.30	26.96	103.94	60.00	.13	46.70
.40	20.22	138.59	50.00	.16	56.04
.50	16.17	173.24	45.00	.18	62.27
.60	13.48	207.89	40.00	.20	70.05
.70	11.55	242.53	35.00	.23	80.06
.75	10.78	259.86	30.00	.27	93.40
.80	10.11	277.18	25.00	.32	112.08
.90	8.99	311.83	20.00	.40	140.10
1.00	8.09	346.47	15.00	.54	186.80
1.25	6.47	433.09	10.00	.81	280.20
1.50	5.39	519.71	5.00	1.62	560.41

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.