

SUPERIOR IRRIGATION

SEPTEMBER 18, 2025

WISH-119605

CUSTOMER : MITCH ROGERS

LINDSAY GEN II - 30
8 TOWER - 1292.79 FT
SYSTEM 260 GPM @ 17 PSI

LEGAL : WIGGINS ROAD K

SENNINGER UP3 LDN SPRAY NOZZLES
SENNINGER 10 PSI REGULATORS
NO ENDGUN
ELEVATION 10 FT UP, 0 FT DOWN

115 EAST CENTRAL AVENUE
WIGGINS, COLORADO 80654
(970)483-7247

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.

DEALER
SUPERIOR IRRIGATION
115 EAST CENTRAL AVENUE
WIGGINS, COLORADO 80654

IRRIGATOR
MITCH ROGERS
WIGGINS ROAD K

				SPAN #	LENGTH	PIPE I.D.	# OF HEADS
TOTAL TARGET GPM	260.00	FRICTION FACTOR USED	138				
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	1292.79	1	159.64	6.395	29
NO ENDGUN		NUMBER OF TOWERS	8	2	157.04	6.395	32
NUMBER OF OUTLETS	526	NUMBER OF SPRINKLERS	422	3	157.04	6.395	32
				4	157.04	6.395	63
SENNINGER UP3 LDN SPRAY NOZZLES - CONCAVE GROOVED PADS				5	157.04	6.395	63
SENNINGER PSR-2 10 PSI SERIES REGULATORS				6	157.04	6.395	63
DROPS AVERAGE 11.5 FT OF .75 I.D. FLEXIBLE HOSE - EXTERNAL WEIGHT				7	157.04	6.395	63
ELEVATION IS 10 FT UP AND 0 FT DOWN				8	157.04	6.395	63
				OH	33.87	5.369	14

CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.

2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

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		2.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
2		5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
3		7.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
4		10.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
5		12.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
6		15.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7		17.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
8	20.17	20.17	0.08	0.37	16.70	11.40	LD	NOZ	UP3	4	LT	BLUE					1	SPSR2-10			8
9		22.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	4.84	25.01	0.04	0.37	16.58	11.40	LD	NOZ	UP3	4	LT	BLUE					2	SPSR2-10			9
11		27.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
12	4.92	29.93	0.05	0.37	16.47	11.40	LD	NOZ	UP3	4	LT	BLUE					3	SPSR2-10			10
13		32.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
14	4.92	34.85	0.05	0.37	16.37	11.40	LD	NOZ	UP3	4	LT	BLUE					4	SPSR2-10			11
15		37.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
16	4.84	39.69	0.06	0.37	16.28	11.40	LD	NOZ	UP3	4	LT	BLUE					5	SPSR2-10			12
17		42.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
18	5.00	44.69	0.07	0.37	16.20	11.40	LD	NOZ	UP3	4	LT	BLUE					6	SPSR2-10			13
19		47.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
20	4.82	49.51	0.07	0.37	16.12	11.40	LD	NOZ	UP3	4	LT	BLUE					7	SPSR2-10			14
21		51.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
22	4.83	54.34	0.08	0.37	16.06	11.40	LD	NOZ	UP3	4	LT	BLUE					8	SPSR2-10			15
23		56.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
24	4.92	59.26	0.09	0.37	16.01	11.40	LD	NOZ	UP3	4	LT	BLUE					9	SPSR2-10			16
25		61.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
26	4.92	64.18	0.10	0.37	15.97	11.40	LD	NOZ	UP3	4	LT	BLUE					10	SPSR2-10			17
27		66.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
28	4.83	69.01	0.10	0.37	15.93	11.40	LD	NOZ	UP3	4	LT	BLUE					11	SPSR2-10			18
29		71.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
30	4.86	73.87	0.11	0.37	15.91	11.40	LD	NOZ	UP3	4	LT	BLUE					12	SPSR2-10			19
31		76.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
32	5.00	78.87	0.12	0.37	15.89	11.40	LD	NOZ	UP3	4	LT	BLUE					13	SPSR2-10			20
33		81.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
34	4.84	83.71	0.13	0.37	15.88	11.40	LD	NOZ	UP3	4	LT	BLUE					14	SPSR2-10			21
35		86.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
36	4.92	88.63	0.13	0.37	15.89	11.40	LD	NOZ	UP3	4	LT	BLUE					15	SPSR2-10			22
37		91.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
38	4.92	93.55	0.14	0.37	15.90	11.40	LD	NOZ	UP3	4	LT	BLUE					16	SPSR2-10			23
39		95.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
40	4.84	98.39	0.15	0.37	15.92	11.40	LD	NOZ	UP3	4	LT	BLUE					17	SPSR2-10			24
41		100.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
42	4.92	103.31	0.16	0.37	15.95	11.40	LD	NOZ	UP3	4	LT	BLUE					18	SPSR2-10			25
43		105.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
44	4.92	108.23	0.16	0.37	15.99	11.40	LD	NOZ	UP3	4	LT	BLUE					19	SPSR2-10			26
45		110.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
46	4.83	113.06	0.17	0.37	16.04	11.40	LD	NOZ	UP3	4	LT	BLUE					20	SPSR2-10			27
47		115.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
48	4.81	117.87	0.18	0.37	16.10	11.40	LD	NOZ	UP3	4	LT	BLUE					21	SPSR2-10			

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.
96	5.00	235.91	0.35	0.37	15.63	11.40	LD	NOZ	UP3	4	LT	BLUE		45	SPSR2-10	52			
97		238.33	-	-	-	-	-	-	-	-	-	-	-	-	-				
98	4.84	240.75	0.35	0.37	15.63	11.40	LD	NOZ	UP3	4	LT	BLUE		46	SPSR2-10	53			
99		243.25	-	-	-	-	-	-	-	-	-	-	-	-	-				
100	4.92	245.67	0.36	0.37	15.63	11.40	LD	NOZ	UP3	4	LT	BLUE		47	SPSR2-10	54			
101		248.09	-	-	-	-	-	-	-	-	-	-	-	-	-				
102	4.92	250.59	0.37	0.37	15.65	11.40	LD	NOZ	UP3	4	LT	BLUE		48	SPSR2-10	55			
103		253.01	-	-	-	-	-	-	-	-	-	-	-	-	-				
104	4.84	255.43	0.38	0.37	15.67	11.40	LD	NOZ	UP3	4	LT	BLUE		49	SPSR2-10	56			
105		257.93	-	-	-	-	-	-	-	-	-	-	-	-	-				
106	4.92	260.35	0.39	0.37	15.70	11.40	LD	NOZ	UP3	4	LT	BLUE		50	SPSR2-10	57			
107		262.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
108	4.92	265.27	0.39	0.37	15.74	11.40	LD	NOZ	UP3	4	LT	BLUE		51	SPSR2-10	58			
109		267.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
110	4.83	270.10	0.39	0.37	15.79	11.40	LD	NOZ	UP3	4	LT	BLUE		52	SPSR2-10	59			
111		272.58	-	-	-	-	-	-	-	-	-	-	-	-	-				
112	4.81	274.91	0.41	0.37	15.85	11.40	LD	NOZ	UP3	4	LT	BLUE		53	SPSR2-10	60			
113		277.41	-	-	-	-	-	-	-	-	-	-	-	-	-				
114	5.00	279.91	0.41	0.37	15.92	11.40	LD	NOZ	UP3	4	LT	BLUE		54	SPSR2-10	61			
115		282.33	-	-	-	-	-	-	-	-	-	-	-	-	-				
116	4.84	284.75	0.42	0.37	16.00	11.40	LD	NOZ	UP3	4	LT	BLUE		55	SPSR2-10	62			
117		287.25	-	-	-	-	-	-	-	-	-	-	-	-	-				
118	4.92	289.67	0.43	0.48	16.08	11.40	LD	NOZ	UP3	4.5	LT	BLUE		56	SPSR2-10	63			
119		292.09	-	-	-	-	-	-	-	-	-	-	-	-	-				
120	4.92	294.59	0.43	0.48	16.18	11.40	LD	NOZ	UP3	4.5	LT	BLUE		57	SPSR2-10	64			
121		297.01	-	-	-	-	-	-	-	-	-	-	-	-	-				
122	4.84	299.43	0.44	0.48	16.29	11.40	LD	NOZ	UP3	4.5	LT	BLUE		58	SPSR2-10	65			
123		301.93	-	-	-	-	-	-	-	-	-	-	-	-	-				
124	4.92	304.35	0.45	0.48	16.40	11.40	LD	NOZ	UP3	4.5	LT	BLUE		59	SPSR2-10	66			
125		306.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
126	4.92	309.27	0.45	0.48	16.50	11.40	LD	NOZ	UP3	4.5	LT	BLUE		60	SPSR2-10	67			
127		311.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
128	4.83	314.10	0.49	0.48	16.49	11.40	LD	NOZ	UP3	4.5	LT	BLUE		61	SPSR2-10	68			
TOWER 2	157.04	316.68	-	-	-	-	-	-	-	-	-	-	-	-	-				
129		317.00	-	-	-	-	-	-	-	-	-	-	-	-	-	68			
130	5.48	319.58	0.50	0.48	16.48	11.40	LD	NOZ	UP3	4.5	LT	BLUE		62	SPSR2-10				
131		321.91	-	-	-	-	-	-	-	-	-	-	-	-	-	69			
132	4.83	324.41	0.48	0.48	16.46	11.40	LD	NOZ	UP3	4.5	LT	BLUE		63	SPSR2-10				
133		326.91	-	-	-	-	-	-	-	-	-	-	-	-	-	70			
134	4.92	329.33	0.49	0.48	16.32	11.40	LD	NOZ	UP3	4.5	LT	BLUE		64	SPSR2-10				
135		331.75	-	-	-	-	-	-	-	-	-	-	-	-	-	71			
136	4.92	334.25	0.49	0.48	16.19	11.40	LD	NOZ	UP3	4.5	LT	BLUE		65	SPSR2-10				
137		336.67	-	-	-	-	-	-	-	-	-	-	-	-	-	72			
138	4.84	339.09	0.50	0.48	16.08	11.40	LD	NOZ	UP3	4.5	LT	BLUE		66	SPSR2-10				
139		341.59	-	-	-	-	-	-	-	-	-	-	-	-	-	73			
140	4.92	344.01	0.51	0.48	15.97	11.40	LD	NOZ	UP3	4.5	LT	BLUE		67	SPSR2-10				
141		346.43	-	-	-	-	-	-	-	-	-	-	-	-	-	74			
142	4.92	348.93	0.51	0.48	15.87	11.40	LD	NOZ	UP3	4.5	LT	BLUE		68	SPSR2-10				

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		351.35	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	75
144	4.84	353.77	0.52	0.48	15.78	11.40	LD NOZ UP3 4.5 LT BLUE						69	SPSR2-10	
145		356.27	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	76
146	5.00	358.77	0.53	0.48	15.70	11.40	LD NOZ UP3 4.5 LT BLUE						70	SPSR2-10	
147		361.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	77
148	4.82	363.59	0.53	0.48	15.63	11.40	LD NOZ UP3 4.5 LT BLUE						71	SPSR2-10	
149		365.92	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	78
150	4.83	368.42	0.54	0.59	15.57	11.40	LD NOZ UP3 5 BEIGE						72	SPSR2-10	
151		370.92	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	79
152	4.92	373.34	0.55	0.59	15.52	11.40	LD NOZ UP3 5 BEIGE						73	SPSR2-10	
153		375.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	80
154	4.92	378.26	0.56	0.59	15.47	11.40	LD NOZ UP3 5 BEIGE						74	SPSR2-10	
155		380.76	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	81
156	4.83	383.09	0.56	0.59	15.44	11.40	LD NOZ UP3 5 BEIGE						75	SPSR2-10	
157		385.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	82
158	4.86	387.95	0.58	0.59	15.42	11.40	LD NOZ UP3 5 BEIGE						76	SPSR2-10	
159		390.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	83
160	5.00	392.95	0.58	0.59	15.40	11.40	LD NOZ UP3 5 BEIGE						77	SPSR2-10	
161		395.37	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	84
162	4.84	397.79	0.59	0.59	15.40	11.40	LD NOZ UP3 5 BEIGE						78	SPSR2-10	
163		400.29	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	85
164	4.92	402.71	0.60	0.59	15.40	11.40	LD NOZ UP3 5 BEIGE						79	SPSR2-10	
165		405.13	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	86
166	4.92	407.63	0.60	0.59	15.42	11.40	LD NOZ UP3 5 BEIGE						80	SPSR2-10	
167		410.05	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	87
168	4.84	412.47	0.61	0.59	15.44	11.40	LD NOZ UP3 5 BEIGE						81	SPSR2-10	
169		414.97	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	88
170	4.92	417.39	0.62	0.59	15.47	11.40	LD NOZ UP3 5 BEIGE						82	SPSR2-10	
171		419.81	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	89
172	4.92	422.31	0.62	0.59	15.51	11.40	LD NOZ UP3 5 BEIGE						83	SPSR2-10	
173		424.81	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	90
174	4.83	427.14	0.62	0.59	15.56	11.40	LD NOZ UP3 5 BEIGE						84	SPSR2-10	
175		429.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	91
176	4.81	431.95	0.64	0.59	15.62	11.40	LD NOZ UP3 5 BEIGE						85	SPSR2-10	
177		434.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	92
178	5.00	436.95	0.65	0.59	15.70	11.40	LD NOZ UP3 5 BEIGE						86	SPSR2-10	
179		439.37	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	93
180	4.84	441.79	0.65	0.59	15.77	11.40	LD NOZ UP3 5 BEIGE						87	SPSR2-10	
181		444.29	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	94
182	4.92	446.71	0.66	0.72	15.86	11.40	LD NOZ UP3 5.5 BEIGE						88	SPSR2-10	
183		449.13	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	95
184	4.92	451.63	0.66	0.72	15.96	11.40	LD NOZ UP3 5.5 BEIGE						89	SPSR2-10	
185		454.05	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	96
186	4.84	456.47	0.67	0.72	16.07	11.40	LD NOZ UP3 5.5 BEIGE						90	SPSR2-10	
187		458.97	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	97
188	4.92	461.39	0.68	0.72	16.19	11.40	LD NOZ UP3 5.5 BEIGE						91	SPSR2-10	
189		463.81	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	98
190	4.92	466.31	0.69	0.72	16.28	11.40	LD NOZ UP3 5.5 BEIGE						92	SPSR2-10	

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.
191		468.81	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	99
192	4.83	471.14	0.73	0.72	16.27	11.40	LD	NOZ	UP3	5.5	BEIGE	93	SPSR2-10	
TOWER 3	157.04	473.72												
193		474.04	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	100
194	5.48	476.62	0.56	0.59	16.26	11.40	LD	NOZ	UP3	5	BEIGE	94	SPSR2-10	
195	2.33	478.95	0.35	0.37	16.26	11.40	LD	NOZ	UP3	4	LT BLUE	95	SPSR2-10	
196	2.50	481.45	0.36	0.37	16.24	11.40	LD	NOZ	UP3	4	LT BLUE	96	SPSR2-10	
197	2.50	483.95	0.36	0.37	16.17	11.40	LD	NOZ	UP3	4	LT BLUE	97	SPSR2-10	
198	2.42	486.37	0.35	0.37	16.10	11.40	LD	NOZ	UP3	4	LT BLUE	98	SPSR2-10	
199	2.42	488.79	0.36	0.37	16.04	11.40	LD	NOZ	UP3	4	LT BLUE	99	SPSR2-10	
200	2.50	491.29	0.36	0.37	15.98	11.40	LD	NOZ	UP3	4	LT BLUE	100	SPSR2-10	
201	2.42	493.71	0.36	0.37	15.92	11.40	LD	NOZ	UP3	4	LT BLUE	101	SPSR2-10	
202	2.42	496.13	0.37	0.37	15.86	11.40	LD	NOZ	UP3	4	LT BLUE	102	SPSR2-10	
203	2.50	498.63	0.37	0.37	15.81	11.40	LD	NOZ	UP3	4	LT BLUE	103	SPSR2-10	
204	2.42	501.05	0.37	0.37	15.76	11.40	LD	NOZ	UP3	4	LT BLUE	104	SPSR2-10	
205	2.42	503.47	0.37	0.37	15.71	11.40	LD	NOZ	UP3	4	LT BLUE	105	SPSR2-10	
206	2.50	505.97	0.38	0.37	15.66	11.40	LD	NOZ	UP3	4	LT BLUE	106	SPSR2-10	
207	2.42	508.39	0.37	0.37	15.61	11.40	LD	NOZ	UP3	4	LT BLUE	107	SPSR2-10	
208	2.42	510.81	0.38	0.37	15.57	11.40	LD	NOZ	UP3	4	LT BLUE	108	SPSR2-10	
209	2.50	513.31	0.39	0.37	15.53	11.40	LD	NOZ	UP3	4	LT BLUE	109	SPSR2-10	
210	2.50	515.81	0.38	0.37	15.49	11.40	LD	NOZ	UP3	4	LT BLUE	110	SPSR2-10	
211	2.33	518.14	0.38	0.37	15.46	11.40	LD	NOZ	UP3	4	LT BLUE	111	SPSR2-10	
212	2.49	520.63	0.38	0.37	15.42	11.40	LD	NOZ	UP3	4	LT BLUE	112	SPSR2-10	
213	2.33	522.96	0.38	0.37	15.39	11.40	LD	NOZ	UP3	4	LT BLUE	113	SPSR2-10	
214	2.50	525.46	0.40	0.37	15.36	11.40	LD	NOZ	UP3	4	LT BLUE	114	SPSR2-10	
215	2.50	527.96	0.39	0.37	15.34	11.40	LD	NOZ	UP3	4	LT BLUE	115	SPSR2-10	
216	2.42	530.38	0.39	0.37	15.31	11.40	LD	NOZ	UP3	4	LT BLUE	116	SPSR2-10	
217	2.42	532.80	0.40	0.37	15.29	11.40	LD	NOZ	UP3	4	LT BLUE	117	SPSR2-10	
218	2.50	535.30	0.40	0.37	15.27	11.40	LD	NOZ	UP3	4	LT BLUE	118	SPSR2-10	
219	2.50	537.80	0.39	0.37	15.25	11.40	LD	NOZ	UP3	4	LT BLUE	119	SPSR2-10	
220	2.33	540.13	0.40	0.37	15.24	11.40	LD	NOZ	UP3	4	LT BLUE	120	SPSR2-10	
221	2.53	542.66	0.40	0.37	15.23	11.40	LD	NOZ	UP3	4	LT BLUE	121	SPSR2-10	
222	2.33	544.99	0.40	0.37	15.22	11.40	LD	NOZ	UP3	4	LT BLUE	122	SPSR2-10	
223	2.50	547.49	0.41	0.37	15.21	11.40	LD	NOZ	UP3	4	LT BLUE	123	SPSR2-10	
224	2.50	549.99	0.41	0.37	15.20	11.40	LD	NOZ	UP3	4	LT BLUE	124	SPSR2-10	
225	2.42	552.41	0.40	0.37	15.20	11.40	LD	NOZ	UP3	4	LT BLUE	125	SPSR2-10	
226	2.42	554.83	0.41	0.37	15.20	11.40	LD	NOZ	UP3	4	LT BLUE	126	SPSR2-10	
227	2.50	557.33	0.41	0.37	15.20	11.40	LD	NOZ	UP3	4	LT BLUE	127	SPSR2-10	
228	2.42	559.75	0.41	0.37	15.20	11.40	LD	NOZ	UP3	4	LT BLUE	128	SPSR2-10	
229	2.42	562.17	0.42	0.37	15.21	11.40	LD	NOZ	UP3	4	LT BLUE	129	SPSR2-10	
230	2.50	564.67	0.42	0.37	15.22	11.40	LD	NOZ	UP3	4	LT BLUE	130	SPSR2-10	
231	2.42	567.09	0.41	0.37	15.23	11.40	LD	NOZ	UP3	4	LT BLUE	131	SPSR2-10	
232	2.42	569.51	0.42	0.37	15.24	11.40	LD	NOZ	UP3	4	LT BLUE	132	SPSR2-10	
233	2.50	572.01	0.43	0.37	15.26	11.40	LD	NOZ	UP3	4	LT BLUE	133	SPSR2-10	
234	2.42	574.43	0.42	0.37	15.28	11.40	LD	NOZ	UP3	4	LT BLUE	134	SPSR2-10	
235	2.42	576.85	0.43	0.48	15.30	11.40	LD	NOZ	UP3	4.5	LT BLUE	135	SPSR2-10	
236	2.50	579.35	0.44	0.48	15.32	11.40	LD	NOZ	UP3	4.5	LT BLUE	136	SPSR2-10	
237	2.50	581.85	0.42	0.37	15.35	11.40	LD	NOZ	UP3	4	LT BLUE	137	SPSR2-10	

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.	
238	2.33	584.18	0.42	0.37	15.37	11.40	LD	NOZ	UP3	4	LT	BLUE	138	SPSR2-10	
239	2.48	586.66	0.43	0.37	15.40	11.40	LD	NOZ	UP3	4	LT	BLUE	139	SPSR2-10	
240	2.33	588.99	0.43	0.48	15.43	11.40	LD	NOZ	UP3	4.5	LT	BLUE	140	SPSR2-10	
241	2.50	591.49	0.45	0.48	15.47	11.40	LD	NOZ	UP3	4.5	LT	BLUE	141	SPSR2-10	
242	2.50	593.99	0.44	0.48	15.51	11.40	LD	NOZ	UP3	4.5	LT	BLUE	142	SPSR2-10	
243	2.42	596.41	0.44	0.48	15.54	11.40	LD	NOZ	UP3	4.5	LT	BLUE	143	SPSR2-10	
244	2.42	598.83	0.45	0.48	15.59	11.40	LD	NOZ	UP3	4.5	LT	BLUE	144	SPSR2-10	
245	2.50	601.33	0.45	0.48	15.63	11.40	LD	NOZ	UP3	4.5	LT	BLUE	145	SPSR2-10	
246	2.42	603.75	0.44	0.48	15.68	11.40	LD	NOZ	UP3	4.5	LT	BLUE	146	SPSR2-10	
247	2.42	606.17	0.45	0.48	15.72	11.40	LD	NOZ	UP3	4.5	LT	BLUE	147	SPSR2-10	
248	2.50	608.67	0.45	0.48	15.78	11.40	LD	NOZ	UP3	4.5	LT	BLUE	148	SPSR2-10	
249	2.42	611.09	0.45	0.48	15.83	11.40	LD	NOZ	UP3	4.5	LT	BLUE	149	SPSR2-10	
250	2.42	613.51	0.46	0.48	15.88	11.40	LD	NOZ	UP3	4.5	LT	BLUE	150	SPSR2-10	
251	2.50	616.01	0.46	0.48	15.94	11.40	LD	NOZ	UP3	4.5	LT	BLUE	151	SPSR2-10	
252	2.42	618.43	0.45	0.48	16.00	11.40	LD	NOZ	UP3	4.5	LT	BLUE	152	SPSR2-10	
253	2.42	620.85	0.46	0.48	16.06	11.40	LD	NOZ	UP3	4.5	LT	BLUE	153	SPSR2-10	
254	2.50	623.35	0.47	0.48	16.10	11.40	LD	NOZ	UP3	4.5	LT	BLUE	154	SPSR2-10	
255	2.50	625.85	0.46	0.48	16.09	11.40	LD	NOZ	UP3	4.5	LT	BLUE	155	SPSR2-10	
256	2.33	628.18	0.74	0.72	16.09	11.40	LD	NOZ	UP3	5.5	BEIGE		156	SPSR2-10	
TOWER 4	157.04	630.76													
257		631.08	-	-	-	-	-	-	-	-	-	-	-	-	101
258	5.48	633.66	0.75	0.72	16.09	11.40	LD	NOZ	UP3	5.5	BEIGE		157	SPSR2-10	
259	2.33	635.99	0.46	0.48	16.08	11.40	LD	NOZ	UP3	4.5	LT	BLUE	158	SPSR2-10	
260	2.50	638.49	0.48	0.48	16.06	11.40	LD	NOZ	UP3	4.5	LT	BLUE	159	SPSR2-10	
261	2.50	640.99	0.48	0.48	15.99	11.40	LD	NOZ	UP3	4.5	LT	BLUE	160	SPSR2-10	
262	2.42	643.41	0.47	0.48	15.93	11.40	LD	NOZ	UP3	4.5	LT	BLUE	161	SPSR2-10	
263	2.42	645.83	0.48	0.48	15.87	11.40	LD	NOZ	UP3	4.5	LT	BLUE	162	SPSR2-10	
264	2.50	648.33	0.48	0.48	15.80	11.40	LD	NOZ	UP3	4.5	LT	BLUE	163	SPSR2-10	
265	2.42	650.75	0.48	0.48	15.75	11.40	LD	NOZ	UP3	4.5	LT	BLUE	164	SPSR2-10	
266	2.42	653.17	0.48	0.48	15.69	11.40	LD	NOZ	UP3	4.5	LT	BLUE	165	SPSR2-10	
267	2.50	655.67	0.49	0.48	15.63	11.40	LD	NOZ	UP3	4.5	LT	BLUE	166	SPSR2-10	
268	2.42	658.09	0.48	0.48	15.58	11.40	LD	NOZ	UP3	4.5	LT	BLUE	167	SPSR2-10	
269	2.42	660.51	0.49	0.48	15.54	11.40	LD	NOZ	UP3	4.5	LT	BLUE	168	SPSR2-10	
270	2.50	663.01	0.49	0.48	15.49	11.40	LD	NOZ	UP3	4.5	LT	BLUE	169	SPSR2-10	
271	2.42	665.43	0.49	0.48	15.44	11.40	LD	NOZ	UP3	4.5	LT	BLUE	170	SPSR2-10	
272	2.42	667.85	0.50	0.48	15.40	11.40	LD	NOZ	UP3	4.5	LT	BLUE	171	SPSR2-10	
273	2.50	670.35	0.51	0.48	15.36	11.40	LD	NOZ	UP3	4.5	LT	BLUE	172	SPSR2-10	
274	2.50	672.85	0.49	0.48	15.32	11.40	LD	NOZ	UP3	4.5	LT	BLUE	173	SPSR2-10	
275	2.33	675.18	0.49	0.48	15.29	11.40	LD	NOZ	UP3	4.5	LT	BLUE	174	SPSR2-10	
276	2.49	677.67	0.49	0.48	15.26	11.40	LD	NOZ	UP3	4.5	LT	BLUE	175	SPSR2-10	
277	2.33	680.00	0.50	0.48	15.23	11.40	LD	NOZ	UP3	4.5	LT	BLUE	176	SPSR2-10	
278	2.50	682.50	0.52	0.48	15.20	11.40	LD	NOZ	UP3	4.5	LT	BLUE	177	SPSR2-10	
279	2.50	685.00	0.51	0.48	15.17	11.40	LD	NOZ	UP3	4.5	LT	BLUE	178	SPSR2-10	
280	2.42	687.42	0.50	0.48	15.15	11.40	LD	NOZ	UP3	4.5	LT	BLUE	179	SPSR2-10	
281	2.42	689.84	0.51	0.48	15.13	11.40	LD	NOZ	UP3	4.5	LT	BLUE	180	SPSR2-10	
282	2.50	692.34	0.52	0.48	15.11	11.40	LD	NOZ	UP3	4.5	LT	BLUE	181	SPSR2-10	
283	2.50	694.84	0.51	0.48	15.09	11.40	LD	NOZ	UP3	4.5	LT	BLUE	182	SPSR2-10	
284	2.33	697.17	0.51	0.48	15.08	11.40	LD	NOZ	UP3	4.5	LT	BLUE	183	SPSR2-10	

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	2.53	699.70	0.51	0.48	15.07	11.40	LD NOZ UP3 4.5 LT BLUE						184	SPSR2-10	
286	2.33	702.03	0.51	0.48	15.06	11.40	LD NOZ UP3 4.5 LT BLUE						185	SPSR2-10	
287	2.50	704.53	0.53	0.48	15.05	11.40	LD NOZ UP3 4.5 LT BLUE						186	SPSR2-10	
288	2.50	707.03	0.53	0.48	15.04	11.40	LD NOZ UP3 4.5 LT BLUE						187	SPSR2-10	
289	2.42	709.45	0.52	0.48	15.04	11.40	LD NOZ UP3 4.5 LT BLUE						188	SPSR2-10	
290	2.42	711.87	0.53	0.48	15.04	11.40	LD NOZ UP3 4.5 LT BLUE						189	SPSR2-10	
291	2.50	714.37	0.53	0.48	15.04	11.40	LD NOZ UP3 4.5 LT BLUE						190	SPSR2-10	
292	2.42	716.79	0.53	0.48	15.05	11.40	LD NOZ UP3 4.5 LT BLUE						191	SPSR2-10	
293	2.42	719.21	0.54	0.59	15.06	11.40	LD NOZ UP3 5 BEIGE						192	SPSR2-10	
294	2.50	721.71	0.54	0.59	15.07	11.40	LD NOZ UP3 5 BEIGE						193	SPSR2-10	
295	2.42	724.13	0.53	0.48	15.08	11.40	LD NOZ UP3 4.5 LT BLUE						194	SPSR2-10	
296	2.42	726.55	0.54	0.59	15.09	11.40	LD NOZ UP3 5 BEIGE						195	SPSR2-10	
297	2.50	729.05	0.54	0.59	15.11	11.40	LD NOZ UP3 5 BEIGE						196	SPSR2-10	
298	2.42	731.47	0.54	0.59	15.13	11.40	LD NOZ UP3 5 BEIGE						197	SPSR2-10	
299	2.42	733.89	0.55	0.59	15.15	11.40	LD NOZ UP3 5 BEIGE						198	SPSR2-10	
300	2.50	736.39	0.56	0.59	15.17	11.40	LD NOZ UP3 5 BEIGE						199	SPSR2-10	
301	2.50	738.89	0.54	0.59	15.20	11.40	LD NOZ UP3 5 BEIGE						200	SPSR2-10	
302	2.33	741.22	0.54	0.59	15.22	11.40	LD NOZ UP3 5 BEIGE						201	SPSR2-10	
303	2.48	743.70	0.54	0.59	15.26	11.40	LD NOZ UP3 5 BEIGE						202	SPSR2-10	
304	2.33	746.03	0.54	0.59	15.29	11.40	LD NOZ UP3 5 BEIGE						203	SPSR2-10	
305	2.50	748.53	0.57	0.59	15.32	11.40	LD NOZ UP3 5 BEIGE						204	SPSR2-10	
306	2.50	751.03	0.56	0.59	15.36	11.40	LD NOZ UP3 5 BEIGE						205	SPSR2-10	
307	2.42	753.45	0.55	0.59	15.40	11.40	LD NOZ UP3 5 BEIGE						206	SPSR2-10	
308	2.42	755.87	0.56	0.59	15.44	11.40	LD NOZ UP3 5 BEIGE						207	SPSR2-10	
309	2.50	758.37	0.56	0.59	15.49	11.40	LD NOZ UP3 5 BEIGE						208	SPSR2-10	
310	2.42	760.79	0.56	0.59	15.53	11.40	LD NOZ UP3 5 BEIGE						209	SPSR2-10	
311	2.42	763.21	0.57	0.59	15.58	11.40	LD NOZ UP3 5 BEIGE						210	SPSR2-10	
312	2.50	765.71	0.57	0.59	15.63	11.40	LD NOZ UP3 5 BEIGE						211	SPSR2-10	
313	2.42	768.13	0.56	0.59	15.69	11.40	LD NOZ UP3 5 BEIGE						212	SPSR2-10	
314	2.42	770.55	0.57	0.59	15.74	11.40	LD NOZ UP3 5 BEIGE						213	SPSR2-10	
315	2.50	773.05	0.57	0.59	15.80	11.40	LD NOZ UP3 5 BEIGE						214	SPSR2-10	
316	2.42	775.47	0.57	0.59	15.86	11.40	LD NOZ UP3 5 BEIGE						215	SPSR2-10	
317	2.42	777.89	0.58	0.59	15.93	11.40	LD NOZ UP3 5 BEIGE						216	SPSR2-10	
318	2.50	780.39	0.59	0.59	15.96	11.40	LD NOZ UP3 5 BEIGE						217	SPSR2-10	
319	2.50	782.89	0.57	0.59	15.96	11.40	LD NOZ UP3 5 BEIGE						218	SPSR2-10	
320	2.33	785.22	0.93	0.85	15.96	11.40	LD NOZ UP3 6 GOLD						219	SPSR2-10	
TOWER 5	157.04	787.80													
321		788.12	-	-	-	-	-	-	-	-	-	-	-	-	102
322	5.48	790.70	0.93	1.00	15.95	11.40	LD NOZ UP3 6.5 GOLD						220	SPSR2-10	
323	2.33	793.03	0.58	0.59	15.95	11.40	LD NOZ UP3 5 BEIGE						221	SPSR2-10	
324	2.50	795.53	0.60	0.59	15.93	11.40	LD NOZ UP3 5 BEIGE						222	SPSR2-10	
325	2.50	798.03	0.59	0.59	15.86	11.40	LD NOZ UP3 5 BEIGE						223	SPSR2-10	
326	2.42	800.45	0.58	0.59	15.80	11.40	LD NOZ UP3 5 BEIGE						224	SPSR2-10	
327	2.42	802.87	0.60	0.59	15.74	11.40	LD NOZ UP3 5 BEIGE						225	SPSR2-10	
328	2.50	805.37	0.60	0.59	15.67	11.40	LD NOZ UP3 5 BEIGE						226	SPSR2-10	
329	2.42	807.79	0.59	0.59	15.62	11.40	LD NOZ UP3 5 BEIGE						227	SPSR2-10	
330	2.42	810.21	0.60	0.59	15.56	11.40	LD NOZ UP3 5 BEIGE						228	SPSR2-10	
331	2.50	812.71	0.60	0.59	15.51	11.40	LD NOZ UP3 5 BEIGE						229	SPSR2-10	

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.
332	2.42	815.13	0.60	0.59	15.46	11.40	LD NOZ	UP3	5	BEIGE	230	SPSR2-10	
333	2.42	817.55	0.61	0.59	15.41	11.40	LD NOZ	UP3	5	BEIGE	231	SPSR2-10	
334	2.50	820.05	0.61	0.59	15.36	11.40	LD NOZ	UP3	5	BEIGE	232	SPSR2-10	
335	2.42	822.47	0.60	0.59	15.32	11.40	LD NOZ	UP3	5	BEIGE	233	SPSR2-10	
336	2.42	824.89	0.61	0.59	15.28	11.40	LD NOZ	UP3	5	BEIGE	234	SPSR2-10	
337	2.50	827.39	0.62	0.59	15.24	11.40	LD NOZ	UP3	5	BEIGE	235	SPSR2-10	
338	2.50	829.89	0.61	0.59	15.20	11.40	LD NOZ	UP3	5	BEIGE	236	SPSR2-10	
339	2.33	832.22	0.61	0.59	15.17	11.40	LD NOZ	UP3	5	BEIGE	237	SPSR2-10	
340	2.49	834.71	0.61	0.59	15.13	11.40	LD NOZ	UP3	5	BEIGE	238	SPSR2-10	
341	2.33	837.04	0.61	0.59	15.11	11.40	LD NOZ	UP3	5	BEIGE	239	SPSR2-10	
342	2.50	839.54	0.63	0.59	15.08	11.40	LD NOZ	UP3	5	BEIGE	240	SPSR2-10	
343	2.50	842.04	0.63	0.59	15.05	11.40	LD NOZ	UP3	5	BEIGE	241	SPSR2-10	
344	2.42	844.46	0.62	0.59	15.03	11.40	LD NOZ	UP3	5	BEIGE	242	SPSR2-10	
345	2.42	846.88	0.63	0.59	15.01	11.40	LD NOZ	UP3	5	BEIGE	243	SPSR2-10	
346	2.50	849.38	0.64	0.59	14.99	11.40	LD NOZ	UP3	5	BEIGE	244	SPSR2-10	
347	2.50	851.88	0.62	0.59	14.98	11.40	LD NOZ	UP3	5	BEIGE	245	SPSR2-10	
348	2.33	854.21	0.63	0.59	14.96	11.40	LD NOZ	UP3	5	BEIGE	246	SPSR2-10	
349	2.53	856.74	0.63	0.59	14.95	11.40	LD NOZ	UP3	5	BEIGE	247	SPSR2-10	
350	2.33	859.07	0.63	0.59	14.94	11.40	LD NOZ	UP3	5	BEIGE	248	SPSR2-10	
351	2.50	861.57	0.65	0.72	14.94	11.40	LD NOZ	UP3	5.5	BEIGE	249	SPSR2-10	
352	2.50	864.07	0.64	0.59	14.93	11.40	LD NOZ	UP3	5	BEIGE	250	SPSR2-10	
353	2.42	866.49	0.64	0.59	14.93	11.40	LD NOZ	UP3	5	BEIGE	251	SPSR2-10	
354	2.42	868.91	0.65	0.59	14.93	11.40	LD NOZ	UP3	5	BEIGE	252	SPSR2-10	
355	2.50	871.41	0.65	0.59	14.94	11.40	LD NOZ	UP3	5	BEIGE	253	SPSR2-10	
356	2.42	873.83	0.64	0.59	14.94	11.40	LD NOZ	UP3	5	BEIGE	254	SPSR2-10	
357	2.42	876.25	0.65	0.72	14.95	11.40	LD NOZ	UP3	5.5	BEIGE	255	SPSR2-10	
358	2.50	878.75	0.66	0.72	14.96	11.40	LD NOZ	UP3	5.5	BEIGE	256	SPSR2-10	
359	2.42	881.17	0.65	0.59	14.97	11.40	LD NOZ	UP3	5	BEIGE	257	SPSR2-10	
360	2.42	883.59	0.66	0.72	14.99	11.40	LD NOZ	UP3	5.5	BEIGE	258	SPSR2-10	
361	2.50	886.09	0.66	0.72	15.00	11.40	LD NOZ	UP3	5.5	BEIGE	259	SPSR2-10	
362	2.42	888.51	0.65	0.72	15.02	11.40	LD NOZ	UP3	5.5	BEIGE	260	SPSR2-10	
363	2.42	890.93	0.66	0.72	15.04	11.40	LD NOZ	UP3	5.5	BEIGE	261	SPSR2-10	
364	2.50	893.43	0.68	0.72	15.07	11.40	LD NOZ	UP3	5.5	BEIGE	262	SPSR2-10	
365	2.50	895.93	0.65	0.72	15.10	11.40	LD NOZ	UP3	5.5	BEIGE	263	SPSR2-10	
366	2.33	898.26	0.65	0.72	15.12	11.40	LD NOZ	UP3	5.5	BEIGE	264	SPSR2-10	
367	2.48	900.74	0.65	0.72	15.15	11.40	LD NOZ	UP3	5.5	BEIGE	265	SPSR2-10	
368	2.33	903.07	0.66	0.72	15.19	11.40	LD NOZ	UP3	5.5	BEIGE	266	SPSR2-10	
369	2.50	905.57	0.68	0.72	15.22	11.40	LD NOZ	UP3	5.5	BEIGE	267	SPSR2-10	
370	2.50	908.07	0.67	0.72	15.26	11.40	LD NOZ	UP3	5.5	BEIGE	268	SPSR2-10	
371	2.42	910.49	0.67	0.72	15.30	11.40	LD NOZ	UP3	5.5	BEIGE	269	SPSR2-10	
372	2.42	912.91	0.68	0.72	15.34	11.40	LD NOZ	UP3	5.5	BEIGE	270	SPSR2-10	
373	2.50	915.41	0.68	0.72	15.39	11.40	LD NOZ	UP3	5.5	BEIGE	271	SPSR2-10	
374	2.42	917.83	0.67	0.72	15.44	11.40	LD NOZ	UP3	5.5	BEIGE	272	SPSR2-10	
375	2.42	920.25	0.68	0.72	15.49	11.40	LD NOZ	UP3	5.5	BEIGE	273	SPSR2-10	
376	2.50	922.75	0.68	0.72	15.54	11.40	LD NOZ	UP3	5.5	BEIGE	274	SPSR2-10	
377	2.42	925.17	0.67	0.72	15.60	11.40	LD NOZ	UP3	5.5	BEIGE	275	SPSR2-10	
378	2.42	927.59	0.69	0.72	15.65	11.40	LD NOZ	UP3	5.5	BEIGE	276	SPSR2-10	
379	2.50	930.09	0.69	0.72	15.71	11.40	LD NOZ	UP3	5.5	BEIGE	277	SPSR2-10	

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.
380	2.42	932.51	0.68	0.72	15.77	11.40	LD NOZ UP3 5.5	BEIGE				278	SPSR2-10	
381	2.42	934.93	0.69	0.72	15.84	11.40	LD NOZ UP3 5.5	BEIGE				279	SPSR2-10	
382	2.50	937.43	0.71	0.72	15.87	11.40	LD NOZ UP3 5.5	BEIGE				280	SPSR2-10	
383	2.50	939.93	0.68	0.72	15.87	11.40	LD NOZ UP3 5.5	BEIGE				281	SPSR2-10	
384	2.33	942.26	1.11	1.16	15.87	11.40	LD NOZ UP3 7	LIME				282	SPSR2-10	
TOWER 6	157.04	944.84												
385		945.16	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	103
386	5.48	947.74	1.11	1.16	15.87	11.40	LD NOZ UP3 7	LIME				283	SPSR2-10	
387	2.33	950.07	0.69	0.72	15.87	11.40	LD NOZ UP3 5.5	BEIGE				284	SPSR2-10	
388	2.50	952.57	0.72	0.72	15.85	11.40	LD NOZ UP3 5.5	BEIGE				285	SPSR2-10	
389	2.50	955.07	0.71	0.72	15.78	11.40	LD NOZ UP3 5.5	BEIGE				286	SPSR2-10	
390	2.42	957.49	0.70	0.72	15.71	11.40	LD NOZ UP3 5.5	BEIGE				287	SPSR2-10	
391	2.42	959.91	0.71	0.72	15.65	11.40	LD NOZ UP3 5.5	BEIGE				288	SPSR2-10	
392	2.50	962.41	0.71	0.72	15.59	11.40	LD NOZ UP3 5.5	BEIGE				289	SPSR2-10	
393	2.42	964.83	0.70	0.72	15.54	11.40	LD NOZ UP3 5.5	BEIGE				290	SPSR2-10	
394	2.42	967.25	0.71	0.72	15.48	11.40	LD NOZ UP3 5.5	BEIGE				291	SPSR2-10	
395	2.50	969.75	0.72	0.72	15.43	11.40	LD NOZ UP3 5.5	BEIGE				292	SPSR2-10	
396	2.42	972.17	0.71	0.72	15.38	11.40	LD NOZ UP3 5.5	BEIGE				293	SPSR2-10	
397	2.42	974.59	0.72	0.72	15.33	11.40	LD NOZ UP3 5.5	BEIGE				294	SPSR2-10	
398	2.50	977.09	0.72	0.72	15.28	11.40	LD NOZ UP3 5.5	BEIGE				295	SPSR2-10	
399	2.42	979.51	0.71	0.72	15.24	11.40	LD NOZ UP3 5.5	BEIGE				296	SPSR2-10	
400	2.42	981.93	0.73	0.72	15.20	11.40	LD NOZ UP3 5.5	BEIGE				297	SPSR2-10	
401	2.50	984.43	0.74	0.72	15.16	11.40	LD NOZ UP3 5.5	BEIGE				298	SPSR2-10	
402	2.50	986.93	0.72	0.72	15.13	11.40	LD NOZ UP3 5.5	BEIGE				299	SPSR2-10	
403	2.33	989.26	0.72	0.72	15.09	11.40	LD NOZ UP3 5.5	BEIGE				300	SPSR2-10	
404	2.49	991.75	0.72	0.72	15.06	11.40	LD NOZ UP3 5.5	BEIGE				301	SPSR2-10	
405	2.33	994.08	0.72	0.72	15.03	11.40	LD NOZ UP3 5.5	BEIGE				302	SPSR2-10	
406	2.50	996.58	0.75	0.72	15.01	11.40	LD NOZ UP3 5.5	BEIGE				303	SPSR2-10	
407	2.50	999.08	0.74	0.72	14.98	11.40	LD NOZ UP3 5.5	BEIGE				304	SPSR2-10	
408	2.42	1001.50	0.73	0.72	14.96	11.40	LD NOZ UP3 5.5	BEIGE				305	SPSR2-10	
409	2.42	1003.92	0.74	0.72	14.94	11.40	LD NOZ UP3 5.5	BEIGE				306	SPSR2-10	
410	2.50	1006.42	0.76	0.72	14.92	11.40	LD NOZ UP3 5.5	BEIGE				307	SPSR2-10	
411	2.50	1008.92	0.73	0.72	14.91	11.40	LD NOZ UP3 5.5	BEIGE				308	SPSR2-10	
412	2.33	1011.25	0.74	0.72	14.90	11.40	LD NOZ UP3 5.5	BEIGE				309	SPSR2-10	
413	2.53	1013.78	0.74	0.72	14.89	11.40	LD NOZ UP3 5.5	BEIGE				310	SPSR2-10	
414	2.33	1016.11	0.74	0.72	14.88	11.40	LD NOZ UP3 5.5	BEIGE				311	SPSR2-10	
415	2.50	1018.61	0.77	0.72	14.87	11.40	LD NOZ UP3 5.5	BEIGE				312	SPSR2-10	
416	2.50	1021.11	0.76	0.72	14.87	11.40	LD NOZ UP3 5.5	BEIGE				313	SPSR2-10	
417	2.42	1023.53	0.75	0.72	14.87	11.40	LD NOZ UP3 5.5	BEIGE				314	SPSR2-10	
418	2.42	1025.95	0.76	0.72	14.87	11.40	LD NOZ UP3 5.5	BEIGE				315	SPSR2-10	
419	2.50	1028.45	0.76	0.72	14.87	11.40	LD NOZ UP3 5.5	BEIGE				316	SPSR2-10	
420	2.42	1030.87	0.75	0.72	14.88	11.40	LD NOZ UP3 5.5	BEIGE				317	SPSR2-10	
421	2.42	1033.29	0.77	0.72	14.89	11.40	LD NOZ UP3 5.5	BEIGE				318	SPSR2-10	
422	2.50	1035.79	0.77	0.72	14.90	11.40	LD NOZ UP3 5.5	BEIGE				319	SPSR2-10	
423	2.42	1038.21	0.76	0.72	14.91	11.40	LD NOZ UP3 5.5	BEIGE				320	SPSR2-10	
424	2.42	1040.63	0.77	0.72	14.93	11.40	LD NOZ UP3 5.5	BEIGE				321	SPSR2-10	
425	2.50	1043.13	0.78	0.72	14.94	11.40	LD NOZ UP3 5.5	BEIGE				322	SPSR2-10	
426	2.42	1045.55	0.77	0.72	14.96	11.40	LD NOZ UP3 5.5	BEIGE				323	SPSR2-10	

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.
427	2.42	1047.97	0.78	0.72	14.99	11.40	LD NOZ UP3 5.5 BEIGE					324	SPSR2-10	
428	2.50	1050.47	0.80	0.85	15.01	11.40	LD NOZ UP3 6 GOLD					325	SPSR2-10	
429	2.50	1052.97	0.77	0.72	15.04	11.40	LD NOZ UP3 5.5 BEIGE					326	SPSR2-10	
430	2.33	1055.30	0.77	0.72	15.07	11.40	LD NOZ UP3 5.5 BEIGE					327	SPSR2-10	
431	2.48	1057.78	0.77	0.72	15.10	11.40	LD NOZ UP3 5.5 BEIGE					328	SPSR2-10	
432	2.33	1060.11	0.78	0.72	15.13	11.40	LD NOZ UP3 5.5 BEIGE					329	SPSR2-10	
433	2.50	1062.61	0.81	0.85	15.17	11.40	LD NOZ UP3 6 GOLD					330	SPSR2-10	
434	2.50	1065.11	0.80	0.85	15.21	11.40	LD NOZ UP3 6 GOLD					331	SPSR2-10	
435	2.42	1067.53	0.78	0.72	15.25	11.40	LD NOZ UP3 5.5 BEIGE					332	SPSR2-10	
436	2.42	1069.95	0.80	0.85	15.29	11.40	LD NOZ UP3 6 GOLD					333	SPSR2-10	
437	2.50	1072.45	0.80	0.85	15.34	11.40	LD NOZ UP3 6 GOLD					334	SPSR2-10	
438	2.42	1074.87	0.79	0.85	15.39	11.40	LD NOZ UP3 6 GOLD					335	SPSR2-10	
439	2.42	1077.29	0.80	0.85	15.44	11.40	LD NOZ UP3 6 GOLD					336	SPSR2-10	
440	2.50	1079.79	0.80	0.85	15.49	11.40	LD NOZ UP3 6 GOLD					337	SPSR2-10	
441	2.42	1082.21	0.79	0.85	15.55	11.40	LD NOZ UP3 6 GOLD					338	SPSR2-10	
442	2.42	1084.63	0.81	0.85	15.60	11.40	LD NOZ UP3 6 GOLD					339	SPSR2-10	
443	2.50	1087.13	0.81	0.85	15.67	11.40	LD NOZ UP3 6 GOLD					340	SPSR2-10	
444	2.42	1089.55	0.80	0.85	15.73	11.40	LD NOZ UP3 6 GOLD					341	SPSR2-10	
445	2.42	1091.97	0.81	0.85	15.79	11.40	LD NOZ UP3 6 GOLD					342	SPSR2-10	
446	2.50	1094.47	0.83	0.85	15.83	11.40	LD NOZ UP3 6 GOLD					343	SPSR2-10	
447	2.50	1096.97	0.80	0.85	15.83	11.40	LD NOZ UP3 6 GOLD					344	SPSR2-10	
448	2.33	1099.30	1.29	1.35	15.83	11.40	LD NOZ UP3 7.5 LIME					345	SPSR2-10	
TOWER 7	157.04	1101.88												
449		1102.20	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	104
450	5.48	1104.78	1.30	1.35	15.82	11.40	LD NOZ UP3 7.5 LIME					346	SPSR2-10	
451	2.33	1107.11	0.80	0.85	15.82	11.40	LD NOZ UP3 6 GOLD					347	SPSR2-10	
452	2.50	1109.61	0.83	0.85	15.81	11.40	LD NOZ UP3 6 GOLD					348	SPSR2-10	
453	2.50	1112.11	0.82	0.85	15.74	11.40	LD NOZ UP3 6 GOLD					349	SPSR2-10	
454	2.42	1114.53	0.81	0.85	15.68	11.40	LD NOZ UP3 6 GOLD					350	SPSR2-10	
455	2.42	1116.95	0.83	0.85	15.61	11.40	LD NOZ UP3 6 GOLD					351	SPSR2-10	
456	2.50	1119.45	0.83	0.85	15.55	11.40	LD NOZ UP3 6 GOLD					352	SPSR2-10	
457	2.42	1121.87	0.81	0.85	15.50	11.40	LD NOZ UP3 6 GOLD					353	SPSR2-10	
458	2.42	1124.29	0.83	0.85	15.44	11.40	LD NOZ UP3 6 GOLD					354	SPSR2-10	
459	2.50	1126.79	0.83	0.85	15.39	11.40	LD NOZ UP3 6 GOLD					355	SPSR2-10	
460	2.42	1129.21	0.82	0.85	15.34	11.40	LD NOZ UP3 6 GOLD					356	SPSR2-10	
461	2.42	1131.63	0.83	0.85	15.30	11.40	LD NOZ UP3 6 GOLD					357	SPSR2-10	
462	2.50	1134.13	0.83	0.85	15.25	11.40	LD NOZ UP3 6 GOLD					358	SPSR2-10	
463	2.42	1136.55	0.82	0.85	15.21	11.40	LD NOZ UP3 6 GOLD					359	SPSR2-10	
464	2.42	1138.97	0.84	0.85	15.17	11.40	LD NOZ UP3 6 GOLD					360	SPSR2-10	
465	2.50	1141.47	0.85	0.85	15.13	11.40	LD NOZ UP3 6 GOLD					361	SPSR2-10	
466	2.50	1143.97	0.83	0.85	15.09	11.40	LD NOZ UP3 6 GOLD					362	SPSR2-10	
467	2.33	1146.30	0.83	0.85	15.06	11.40	LD NOZ UP3 6 GOLD					363	SPSR2-10	
468	2.49	1148.79	0.83	0.85	15.03	11.40	LD NOZ UP3 6 GOLD					364	SPSR2-10	
469	2.33	1151.12	0.83	0.85	15.00	11.40	LD NOZ UP3 6 GOLD					365	SPSR2-10	
470	2.50	1153.62	0.86	0.85	14.98	11.40	LD NOZ UP3 6 GOLD					366	SPSR2-10	
471	2.50	1156.12	0.85	0.85	14.95	11.40	LD NOZ UP3 6 GOLD					367	SPSR2-10	
472	2.42	1158.54	0.84	0.85	14.93	11.40	LD NOZ UP3 6 GOLD					368	SPSR2-10	
473	2.42	1160.96	0.85	0.85	14.91	11.40	LD NOZ UP3 6 GOLD					369	SPSR2-10	

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.
474	2.50	1163.46	0.87	0.85	14.89	11.40	LD	NOZ	UP3	6	GOLD	370	SPSR2-10
475	2.50	1165.96	0.84	0.85	14.88	11.40	LD	NOZ	UP3	6	GOLD	371	SPSR2-10
476	2.33	1168.29	0.85	0.85	14.87	11.40	LD	NOZ	UP3	6	GOLD	372	SPSR2-10
477	2.53	1170.82	0.85	0.85	14.86	11.40	LD	NOZ	UP3	6	GOLD	373	SPSR2-10
478	2.33	1173.15	0.84	0.85	14.85	11.40	LD	NOZ	UP3	6	GOLD	374	SPSR2-10
479	2.50	1175.65	0.88	0.85	14.85	11.40	LD	NOZ	UP3	6	GOLD	375	SPSR2-10
480	2.50	1178.15	0.86	0.85	14.84	11.40	LD	NOZ	UP3	6	GOLD	376	SPSR2-10
481	2.42	1180.57	0.85	0.85	14.84	11.40	LD	NOZ	UP3	6	GOLD	377	SPSR2-10
482	2.42	1182.99	0.87	0.85	14.84	11.40	LD	NOZ	UP3	6	GOLD	378	SPSR2-10
483	2.50	1185.49	0.87	0.85	14.85	11.40	LD	NOZ	UP3	6	GOLD	379	SPSR2-10
484	2.42	1187.91	0.86	0.85	14.86	11.40	LD	NOZ	UP3	6	GOLD	380	SPSR2-10
485	2.42	1190.33	0.87	0.85	14.86	11.40	LD	NOZ	UP3	6	GOLD	381	SPSR2-10
486	2.50	1192.83	0.88	0.85	14.88	11.40	LD	NOZ	UP3	6	GOLD	382	SPSR2-10
487	2.42	1195.25	0.86	0.85	14.89	11.40	LD	NOZ	UP3	6	GOLD	383	SPSR2-10
488	2.42	1197.67	0.88	0.85	14.91	11.40	LD	NOZ	UP3	6	GOLD	384	SPSR2-10
489	2.50	1200.17	0.88	0.85	14.92	11.40	LD	NOZ	UP3	6	GOLD	385	SPSR2-10
490	2.42	1202.59	0.87	0.85	14.94	11.40	LD	NOZ	UP3	6	GOLD	386	SPSR2-10
491	2.42	1205.01	0.89	0.85	14.97	11.40	LD	NOZ	UP3	6	GOLD	387	SPSR2-10
492	2.50	1207.51	0.91	0.85	14.99	11.40	LD	NOZ	UP3	6	GOLD	388	SPSR2-10
493	2.50	1210.01	0.88	0.85	15.02	11.40	LD	NOZ	UP3	6	GOLD	389	SPSR2-10
494	2.33	1212.34	0.88	0.85	15.05	11.40	LD	NOZ	UP3	6	GOLD	390	SPSR2-10
495	2.48	1214.82	0.88	0.85	15.08	11.40	LD	NOZ	UP3	6	GOLD	391	SPSR2-10
496	2.33	1217.15	0.88	0.85	15.12	11.40	LD	NOZ	UP3	6	GOLD	392	SPSR2-10
497	2.50	1219.65	0.92	0.85	15.15	11.40	LD	NOZ	UP3	6	GOLD	393	SPSR2-10
498	2.50	1222.15	0.91	0.85	15.19	11.40	LD	NOZ	UP3	6	GOLD	394	SPSR2-10
499	2.42	1224.57	0.90	0.85	15.23	11.40	LD	NOZ	UP3	6	GOLD	395	SPSR2-10
500	2.42	1226.99	0.91	0.85	15.28	11.40	LD	NOZ	UP3	6	GOLD	396	SPSR2-10
501	2.50	1229.49	0.92	0.85	15.33	11.40	LD	NOZ	UP3	6	GOLD	397	SPSR2-10
502	2.42	1231.91	0.91	0.85	15.37	11.40	LD	NOZ	UP3	6	GOLD	398	SPSR2-10
503	2.42	1234.33	0.93	0.85	15.42	11.40	LD	NOZ	UP3	6	GOLD	399	SPSR2-10
504	2.50	1236.83	0.93	1.00	15.48	11.40	LD	NOZ	UP3	6.5	GOLD	400	SPSR2-10
505	2.42	1239.25	0.92	0.85	15.53	11.40	LD	NOZ	UP3	6	GOLD	401	SPSR2-10
506	2.42	1241.67	0.94	1.00	15.59	11.40	LD	NOZ	UP3	6.5	GOLD	402	SPSR2-10
507	2.50	1244.17	0.93	1.00	15.65	11.40	LD	NOZ	UP3	6.5	GOLD	403	SPSR2-10
508	2.42	1246.59	0.92	0.85	15.72	11.40	LD	NOZ	UP3	6	GOLD	404	SPSR2-10
509	2.42	1249.01	0.94	1.00	15.78	11.40	LD	NOZ	UP3	6.5	GOLD	405	SPSR2-10
510	2.50	1251.51	0.95	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	406	SPSR2-10
511	2.50	1254.01	0.92	0.85	15.81	11.40	LD	NOZ	UP3	6	GOLD	407	SPSR2-10
512	2.33	1256.34	1.34	1.35	15.81	11.40	LD	NOZ	UP3	7.5	LIME	408	SPSR2-10
TOWER 8		157.04	PIPE ID CHANGES FROM 6.395 TO 5.369										
513	4.70	1261.04	1.35	1.35	15.81	11.40	LD	NOZ	UP3	7.5	LIME	409	SPSR2-10
514	2.33	1263.37	0.93	0.85	15.81	11.40	LD	NOZ	UP3	6	GOLD	410	SPSR2-10
515	2.50	1265.87	0.97	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	411	SPSR2-10
516	2.50	1268.37	0.95	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	412	SPSR2-10
517	2.42	1270.79	0.93	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	413	SPSR2-10
518	2.42	1273.21	0.94	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	414	SPSR2-10
519	2.50	1275.71	0.95	1.00	15.81	11.40	LD	NOZ	UP3	6.5	GOLD	415	SPSR2-10

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.
520	2.50	1278.21	0.91	0.85	15.81	11.40	LD NOZ UP3 6 GOLD	416	SPSR2-10	
521	2.33	1280.54	0.93	0.85	15.81	11.40	LD NOZ UP3 6 GOLD	417	SPSR2-10	
522	2.50	1283.04	0.98	1.00	15.81	11.40	LD NOZ UP3 6.5 GOLD	418	SPSR2-10	
523	2.50	1285.54	0.97	1.00	15.81	11.40	LD NOZ UP3 6.5 GOLD	419	SPSR2-10	
524	2.50	1288.04	0.96	1.00	15.81	11.40	LD NOZ UP3 6.5 GOLD	420	SPSR2-10	
525	2.50	1290.54	0.98	1.00	15.81	11.40	LD NOZ UP3 6.5 GOLD	421	SPSR2-10	
526	2.25	1292.79	0.99	1.00	15.81	11.40	LD NOZ UP3 6.5 GOLD	422	SPSR2-10	
OVERHANG	33.87	1292.79								

TOTAL GPM = 260.77

GPA = 2.16

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI
 WITH GRADUATED ELEVATION OF 10.00 FT THE INLET PRESSURE IS 15.79 PSI FOR SPRINKLER 422
 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	1.84	3.97	10.83	173%	5.89	0.013	0.47	0.62	0.78
2	5.39	11.66	12.60	8%	2.33	0.005	0.19	0.25	0.31
3	8.95	19.35	18.46	-5%	2.06	0.005	0.16	0.22	0.27
4	12.51	27.03	26.05	-4%	2.08	0.005	0.17	0.22	0.28
5	16.07	34.72	33.69	-3%	2.10	0.005	0.17	0.22	0.28
6	19.62	42.41	41.40	-2%	2.11	0.005	0.17	0.22	0.28
7	23.18	50.10	48.22	-4%	2.08	0.005	0.17	0.22	0.28
8	26.74	57.79	55.65	-4%	2.08	0.005	0.17	0.22	0.28
OVERHANG	6.23	13.47	13.88	3%	2.23	0.005	0.18	0.24	0.30
TOTAL	120.54	260.50	260.77		2.16				

SUMMARY OF SPRINKLERS

- 98 LD NOZ UP3 4 LT BLUE
- 69 LD NOZ UP3 4.5 LT BLUE
- 77 LD NOZ UP3 5 BEIGE
- 81 LD NOZ UP3 5.5 BEIGE
- 75 LD NOZ UP3 6 GOLD
- 16 LD NOZ UP3 6.5 GOLD
- 2 LD NOZ UP3 7 LIME
- 4 LD NOZ UP3 7.5 LIME

104 PLUGS

SUMMARY OF REGULATORS

422 Senn PSR2 10 psi

TOTAL OF 422 REGULATORS

NOZZLE POSITION CHART

LD NOZ UP3 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, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
51, 52, 53, 54, 55, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114,
115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 137, 138, 139

LD NOZ UP3 4.5 LT BLUE

56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 135, 136, 140, 141, 142, 143, 144, 145, 146,
147, 148, 149, 150, 151, 152, 153, 154, 155, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173,
174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 194

LD NOZ UP3 5 BEIGE

72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 94, 192, 193, 195, 196, 197, 198, 199, 200,
201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 221, 222, 223, 224, 225, 226, 227,
228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 250, 251, 252, 253,
254, 257

LD NOZ UP3 5.5 BEIGE

88, 89, 90, 91, 92, 93, 156, 157, 249, 255, 256, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271,
272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298,
299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323,
324, 326, 327, 328, 329, 332

LD NOZ UP3 6 GOLD

219, 325, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 347, 348, 349, 350, 351, 352, 353, 354, 355,
356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380,
381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 401, 404, 407, 410, 416, 417

LD NOZ UP3 6.5 GOLD

220, 400, 402, 403, 405, 406, 411, 412, 413, 414, 415, 418, 419, 420, 421, 422

LD NOZ UP3 7 LIME

282, 283

LD NOZ UP3 7.5 LIME

345, 346, 408, 409

SUPERIOR IRRIGATION
115 EAST CENTRAL AVENUE
WIGGINS, COLORADO 80654

SEPTEMBER 18, 2025
WISH-119605
MITCH ROGERS
WIGGINS ROAD K
260 GPM @ 17 PSI

LINDSAY GEN II - 30
SENNINGER UP3 LDN SPRAY NOZZLES
SENNINGER 10 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
HEAD

Rotation time at 100% = 13.59 Hours Or 815 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				61	PLUG				56					51	PLUG				46			138	4	PSR210	
2	PLUG				62		28	4	PSR210	57	PLUG		57	4.5	PSR210	52				47			139	4	PSR210	
3	PLUG				63	PLUG				58		58	4.5	PSR210	53	PLUG	87	5	PSR210	48			140	4.5	PSR210	
4	PLUG				64		29	4	PSR210	59	PLUG		59	4.5	PSR210	54	PLUG	88	5.5	PSR210	49			141	4.5	PSR210
5	PLUG				TOWER 1					60		59	4.5	PSR210	55	PLUG				50			142	4.5	PSR210	
6	PLUG					1	PLUG			61	PLUG				56		89	5.5	PSR210	51			143	4.5	PSR210	
7	PLUG	1	4	PSR210		2		30	4	PSR210	62		60	4.5	PSR210	57	PLUG			52			144	4.5	PSR210	
8						3	PLUG			63	PLUG		61	4.5	PSR210	58		90	5.5	PSR210	53			145	4.5	PSR210
9	PLUG				4		31	4	PSR210	64					59	PLUG				54			146	4.5	PSR210	
10		2	4	PSR210	5	PLUG				TOWER 2					60		91	5.5	PSR210	55			147	4.5	PSR210	
11	PLUG				6		32	4	PSR210		1	PLUG			61	PLUG				56			148	4.5	PSR210	
12		3	4	PSR210	7	PLUG			2			62	4.5	PSR210	62		92	5.5	PSR210	57			149	4.5	PSR210	
13	PLUG				8		33	4	PSR210		3	PLUG			63	PLUG				58			150	4.5	PSR210	
14		4	4	PSR210	9	PLUG				4		63	4.5	PSR210	64	TOWER 3		93	5.5	PSR210	59			151	4.5	PSR210
15	PLUG				10		34	4	PSR210	5	PLUG			64	4.5		PSR210	1			60			152	4.5	PSR210
16		5	4	PSR210	11	PLUG			6		64	4.5	PSR210				1	PLUG		61			153	4.5	PSR210	
17	PLUG				12		35	4	PSR210	7	PLUG						2		94	5	PSR210	62			154	4.5
18		6	4	PSR210	13	PLUG				8		65	4.5	PSR210	3			95	4	PSR210	63			155	4.5	PSR210
19	PLUG				14		36	4	PSR210	9	PLUG				4			96	4	PSR210	64	TOWER 4		156	5.5	PSR210
20		7	4	PSR210	15	PLUG				10		66	4.5	PSR210	5			97	4	PSR210						
21	PLUG				16		37	4	PSR210	11	PLUG				6			98	4	PSR210	1					
22		8	4	PSR210	17	PLUG				12		67	4.5	PSR210	7			99	4	PSR210	2		157	5.5	PSR210	
23	PLUG				18		38	4	PSR210	13	PLUG				8			100	4	PSR210	3			158	4.5	PSR210
24		9	4	PSR210	19	PLUG				14		68	4.5	PSR210	9			101	4	PSR210	4			159	4.5	PSR210
25	PLUG				20		39	4	PSR210	15	PLUG				10			102	4	PSR210	5			160	4.5	PSR210
26		10	4	PSR210	21	PLUG				16		69	4.5	PSR210	11			103	4	PSR210	6			161	4.5	PSR210
27	PLUG				22		40	4	PSR210	17	PLUG				12			104	4	PSR210	7			162	4.5	PSR210
28		11	4	PSR210	23	PLUG				18		70	4.5	PSR210	13			105	4	PSR210	8			163	4.5	PSR210
29	PLUG				24		41	4	PSR210	19	PLUG				14			106	4	PSR210	9			164	4.5	PSR210
30		12	4	PSR210	25	PLUG				20		71	4.5	PSR210	15			107	4	PSR210	10			165	4.5	PSR210
31	PLUG				26		42	4	PSR210	21	PLUG				16			108	4	PSR210	11			166	4.5	PSR210
32		13	4	PSR210	27	PLUG				22		72	5	PSR210	17			109	4	PSR210	12			167	4.5	PSR210
33	PLUG				28		43	4	PSR210	23	PLUG				18			110	4	PSR210	13			168	4.5	PSR210
34		14	4	PSR210	29	PLUG				24		73	5	PSR210	19			111	4	PSR210	14			169	4.5	PSR210
35	PLUG				30		44	4	PSR210	25	PLUG				20			112	4	PSR210	15			170	4.5	PSR210
36		15	4	PSR210	31	PLUG				26		74	5	PSR210	21			113	4	PSR210	16			171	4.5	PSR210
37	PLUG				32		45	4	PSR210	27	PLUG				22			114	4	PSR210	17			172	4.5	PSR210
38		16	4	PSR210	33	PLUG				28		75	5	PSR210	23			115	4	PSR210	18			173	4.5	PSR210
39	PLUG				34		46	4	PSR210	29	PLUG				24			116	4	PSR210	19			174	4.5	PSR210
40		17	4	PSR210	35	PLUG				30		76	5	PSR210	25			117	4	PSR210	20			175	4.5	PSR210
41	PLUG				36		47	4	PSR210	31	PLUG				26			118	4	PSR210	21			176	4.5	PSR210
42		18	4	PSR210	37	PLUG				32		77	5	PSR210	27			119	4	PSR210	22			177	4.5	PSR210
43	PLUG				38		48	4	PSR210	33	PLUG				28			120	4	PSR210	23			178	4.5	PSR210
44		19	4	PSR210	39	PLUG				34		78	5	PSR210	29			121	4	PSR210	24			179	4.5	PSR210
45	PLUG				40		49	4	PSR210	35	PLUG				30			122	4	PSR210	25			180	4.5	PSR210
46		20	4	PSR210	41	PLUG				36		79	5	PSR210	31			123	4	PSR210	26			181	4.5	PSR210
47	PLUG				42		50	4	PSR210	37	PLUG				32			124	4	PSR210	27			182	4.5	PSR210
48		21	4	PSR210	43	PLUG				38		80	5	PSR210	33			125	4	PSR210	28			183	4.5	PSR210
49	PLUG				44		51	4	PSR210	39	PLUG				34			126	4	PSR210	29			184	4.5	PSR210
50		22	4	PSR210	45	PLUG				40		81	5	PSR210	35			127	4	PSR210	30			185	4.5	PSR210
51	PLUG				46		52	4	PSR210	41	PLUG				36			128	4	PSR210	31			186	4.5	PSR210
52		23	4	PSR210	47	PLUG				42		82	5	PSR210	37			129	4	PSR210	32			187	4.5	PSR210
53	PLUG				48		53	4	PSR210	43	PLUG				38			130	4	PSR210	33			188	4.5	PSR210
54		24	4	PSR210	49	PLUG				44		83	5	PSR210	39			131	4	PSR210	34			189	4.5	PSR210
55	PLUG				50		54	4	PSR210	45	PLUG				40			132	4	PSR210	35			190	4.5	PSR210
56		25	4	PSR210	51	PLUG				46		84	5	PSR210	41			133	4	PSR210	36			191	4.5	PSR210
57	PLUG				52		55	4	PSR210	47	PLUG				42			134	4	PSR210	37			192	5	PSR210
58		26	4	PSR210	53	PLUG				48		85	5	PSR210	43			135	4.5	PSR210	38			193	5	PSR210
59	PLUG				54		56	4.5	PSR210	49	PLUG				44			136	4.5	PSR210	39			194	4.5	PSR210
60		27	4	PSR210	55	PLUG				50		86	5	PSR210	45			137	4	PSR210	40			195	5	PSR210

SUPERIOR IRRIGATION
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260 GPM @ 17 PSI

LINDSAY GEN II - 30
SENNINGER UP3 LDN SPRAY NOZZLES
SENNINGER 10 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
HEAD

Rotation time at 100% = 13.59 Hours Or 815 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
41		196	5	PSR210	36		254	5	PSR210	31		312	5.5	PSR210	26		370	6	PSR210
42		197	5	PSR210	37		255	5.5	PSR210	32		313	5.5	PSR210	27		371	6	PSR210
43		198	5	PSR210	38		256	5.5	PSR210	33		314	5.5	PSR210	28		372	6	PSR210
44		199	5	PSR210	39		257	5	PSR210	34		315	5.5	PSR210	29		373	6	PSR210
45		200	5	PSR210	40		258	5.5	PSR210	35		316	5.5	PSR210	30		374	6	PSR210
46		201	5	PSR210	41		259	5.5	PSR210	36		317	5.5	PSR210	31		375	6	PSR210
47		202	5	PSR210	42		260	5.5	PSR210	37		318	5.5	PSR210	32		376	6	PSR210
48		203	5	PSR210	43		261	5.5	PSR210	38		319	5.5	PSR210	33		377	6	PSR210
49		204	5	PSR210	44		262	5.5	PSR210	39		320	5.5	PSR210	34		378	6	PSR210
50		205	5	PSR210	45		263	5.5	PSR210	40		321	5.5	PSR210	35		379	6	PSR210
51		206	5	PSR210	46		264	5.5	PSR210	41		322	5.5	PSR210	36		380	6	PSR210
52		207	5	PSR210	47		265	5.5	PSR210	42		323	5.5	PSR210	37		381	6	PSR210
53		208	5	PSR210	48		266	5.5	PSR210	43		324	5.5	PSR210	38		382	6	PSR210
54		209	5	PSR210	49		267	5.5	PSR210	44		325	6	PSR210	39		383	6	PSR210
55		210	5	PSR210	50		268	5.5	PSR210	45		326	5.5	PSR210	40		384	6	PSR210
56		211	5	PSR210	51		269	5.5	PSR210	46		327	5.5	PSR210	41		385	6	PSR210
57		212	5	PSR210	52		270	5.5	PSR210	47		328	5.5	PSR210	42		386	6	PSR210
58		213	5	PSR210	53		271	5.5	PSR210	48		329	5.5	PSR210	43		387	6	PSR210
59		214	5	PSR210	54		272	5.5	PSR210	49		330	6	PSR210	44		388	6	PSR210
60		215	5	PSR210	55		273	5.5	PSR210	50		331	6	PSR210	45		389	6	PSR210
61		216	5	PSR210	56		274	5.5	PSR210	51		332	5.5	PSR210	46		390	6	PSR210
62		217	5	PSR210	57		275	5.5	PSR210	52		333	6	PSR210	47		391	6	PSR210
63		218	5	PSR210	58		276	5.5	PSR210	53		334	6	PSR210	48		392	6	PSR210
64		219	6	PSR210	59		277	5.5	PSR210	54		335	6	PSR210	49		393	6	PSR210
1	TOWER 5 PLUG				60		278	5.5	PSR210	55		336	6	PSR210	50		394	6	PSR210
2					61		279	5.5	PSR210	56		337	6	PSR210	51		395	6	PSR210
3		220	6.5	PSR210	62		280	5.5	PSR210	57		338	6	PSR210	52		396	6	PSR210
4		221	5	PSR210	63		281	5.5	PSR210	58		339	6	PSR210	53		397	6	PSR210
5		222	5	PSR210	64		282	7	PSR210	59		340	6	PSR210	54		398	6	PSR210
6		223	5	PSR210		TOWER 6 PLUG				60		341	6	PSR210	55		399	6	PSR210
7		224	5	PSR210	1					61		342	6	PSR210	56		400	6.5	PSR210
8		225	5	PSR210	2		283	7	PSR210	62		343	6	PSR210	57		401	6	PSR210
9		226	5	PSR210	3		284	5.5	PSR210	63		344	6	PSR210	58		402	6.5	PSR210
10		227	5	PSR210	4		285	5.5	PSR210	64		345	7.5	PSR210	59		403	6.5	PSR210
11		228	5	PSR210	5		286	5.5	PSR210		TOWER 7 PLUG				60		404	6	PSR210
12		229	5	PSR210	6		287	5.5	PSR210	1					61		405	6.5	PSR210
13		230	5	PSR210	7		288	5.5	PSR210	2		346	7.5	PSR210	62		406	6.5	PSR210
14		231	5	PSR210	8		289	5.5	PSR210	3		347	6	PSR210	63		407	6	PSR210
15		232	5	PSR210	9		290	5.5	PSR210	4		348	6	PSR210	64		408	7.5	PSR210
16		233	5	PSR210	10		291	5.5	PSR210	5		349	6	PSR210		TOWER 8			
17		234	5	PSR210	11		292	5.5	PSR210	6		350	6	PSR210	1		409	7.5	PSR210
18		235	5	PSR210	12		293	5.5	PSR210	7		351	6	PSR210	2		410	6	PSR210
19		236	5	PSR210	13		294	5.5	PSR210	8		352	6	PSR210	3		411	6.5	PSR210
20		237	5	PSR210	14		295	5.5	PSR210	9		353	6	PSR210	4		412	6.5	PSR210
21		238	5	PSR210	15		296	5.5	PSR210	10		354	6	PSR210	5		413	6.5	PSR210
22		239	5	PSR210	16		297	5.5	PSR210	11		355	6	PSR210	6		414	6.5	PSR210
23		240	5	PSR210	17		298	5.5	PSR210	12		356	6	PSR210	7		415	6.5	PSR210
24		241	5	PSR210	18		299	5.5	PSR210	13		357	6	PSR210	8		416	6	PSR210
25		242	5	PSR210	19		300	5.5	PSR210	14		358	6	PSR210	9		417	6	PSR210
26		243	5	PSR210	20		301	5.5	PSR210	15		359	6	PSR210	10		418	6.5	PSR210
27		244	5	PSR210	21		302	5.5	PSR210	16		360	6	PSR210	11		419	6.5	PSR210
28		245	5	PSR210	22		303	5.5	PSR210	17		361	6	PSR210	12		420	6.5	PSR210
29		246	5	PSR210	23		304	5.5	PSR210	18		362	6	PSR210	13		421	6.5	PSR210
30		247	5	PSR210	24		305	5.5	PSR210	19		363	6	PSR210	14		422	6.5	PSR210
31		248	5	PSR210	25		306	5.5	PSR210	20		364	6	PSR210					
32		249	5.5	PSR210	26		307	5.5	PSR210	21		365	6	PSR210					
33		250	5	PSR210	27		308	5.5	PSR210	22		366	6	PSR210					
34		251	5	PSR210	28		309	5.5	PSR210	23		367	6	PSR210					
35		252	5	PSR210	29		310	5.5	PSR210	24		368	6	PSR210					
		253	5	PSR210	30		311	5.5	PSR210	25		369	6	PSR210					

SUPERIOR IRRIGATION
115 EAST CENTRAL AVENUE
WIGGINS, COLORADO 80654

SEPTEMBER 18, 2025
WISH-119605
MITCH ROGERS
WIGGINS ROAD K
260 gpm @ 17 psi

LINDSAY GEN II - 30
SENNINGER UP3 LDN SPRAY NOZZLES
SENNINGER 10 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 13.59 Hours Or 815 minutes

Nozzle Difference

Previous chart: WISH-113830 300 gpm @ 17 psi
Current chart: WISH-119605 260 gpm @ 17 psi

Nozzle Type and Size	Difference	Previous WISH Printouts
SENNINGER UP3 4 LT BLUE	43	WISH-113830 300 gpm @ 17 PSI MAY 02, 2024
SENNINGER UP3 4.5 LT BLUE	5	
SENNINGER UP3 5 BEIGE	11	
SENNINGER UP3 5.5 BEIGE	6	
SENNINGER UP3 6 GOLD	3	
SENNINGER UP3 7.5 LIME	2	
Total:	70	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119605

SEPTEMBER 18, 2025

DEALER - SUPERIOR IRRIGATION

IRRIGATOR - MITCH ROGERS

FIELD - WIGGINS ROAD K

TOTAL LENGTH PIPE = 1292.79 SYSTEM PRESSURE = 17 PSI

GPM UNDER PIPE = 260.77 TOTAL GPM = 260.77

ACRES UNDER PIPE = 120.54

RANGE OF ENDGUN = .00

GPM OF ENDGUN = .00

ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 3/4

LOADED MOTOR RPM = 1750

CENTER GEAR BOX RATIO = 40

WHEEL GEAR BOX RATIO = 50

TIRE SIZE = 11 X 24.5

LAST TOWER SPEED (FPM) = 9.70

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.06	100.00	13.59 - 815(min)	100.00	.06	13.59 - 815(min)
.10	64.97	20.92	90.00	.07	15.10
.20	32.48	41.84	80.00	.08	16.99
.25	25.99	52.30	70.00	.09	19.42
.30	21.66	62.76	60.00	.11	22.65
.40	16.24	83.68	50.00	.13	27.18
.50	12.99	104.60	45.00	.14	30.20
.60	10.83	125.52	40.00	.16	33.98
.70	9.28	146.44	35.00	.19	38.83
.75	8.66	156.90	30.00	.22	45.30
.80	8.12	167.36	25.00	.26	54.36
.90	7.22	188.28	20.00	.32	67.96
1.00	6.50	209.20	15.00	.43	90.61
1.25	5.20	261.50	10.00	.65	135.91
1.50	4.33	313.80	5.00	1.30	271.82

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.