

TEETER IRRIGATION

OCTOBER 13, 2014

WISH-79258

CUSTOMER : BRENT WOODS

VALLEY 8000 - 30
8 TOWER - 1309.64 FT
SYSTEM 500 GPM @ 12 PSI

P.O. NO. : 740620
JOB NO. :
LEGAL : SW 1/4 1-31-31
CROP :

NELSON D3000 SPRAY NOZZLES
NELSON 10 & 6 PSI REGULATORS
NO ENDGUN
ELEVATION 2 FT UP, 2 FT DOWN

1310 ONTARIO STREET

PLAINS, KANSAS 67869

(620)563-7557

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

OCTOBER 13, 2014

WISH-79258

DEALER

TEETER IRRIGATION
1310 ONTARIO STREET
PLAINS, KANSAS 67869

IRRIGATOR

BRENT WOODS
SW 1/4 1-31-31
740620

TOTAL TARGET GPM	500.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	12.00	TOTAL LENGTH	1309.64	1	160.85	6.415
NO ENDGUN		NUMBER OF TOWERS	8	6	160.11	6.415
NUMBER OF OUTLETS	509	NUMBER OF SPRINKLERS	256	1	159.85	6.415
				OH	18.28	6.415
					10.00	2.06

NELSON D3000 SPRAY NOZZLES - CONCAVE BLUE 36 DEEP GROOVE PLATES
NELSON BLUE TOP INTEGRAL 10 & 6 PSI SERIES REGULATORS
DROPS AVERAGE 12.5 FT OF .75 I.D. FLEXIBLE HOSE WITH 24 INCH SLIP POLYWEIGHT®
ELEVATION IS 2 FT UP AND 2 FT DOWN

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	0.23	0.47	11.56	11.34	D3000	9	LT	BL/BEIGE							1	NNB10LF	
4	9.00	32.40	0.17	0.47	11.36	11.34	D3000	9	LT	BL/BEIGE							2	NNB10LF	
5	9.00	41.40	0.16	0.47	11.19	11.34	D3000	9	LT	BL/BEIGE							3	NNB10LF	
6	4.54	45.94	0.13	0.47	11.11	11.34	D3000	9	LT	BL/BEIGE							4	NNB10LF	
7		48.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	3
8	5.00	50.94	0.15	0.47	11.03	11.34	D3000	9	LT	BL/BEIGE							5	NNB10LF	
9		53.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	4
10	5.00	55.94	0.16	0.47	10.96	11.34	D3000	9	LT	BL/BEIGE							6	NNB10LF	
11		58.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	5
12	5.00	60.94	0.18	0.47	10.90	11.34	D3000	9	LT	BL/BEIGE							7	NNB10LF	
13		63.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	6
14	5.00	65.94	0.19	0.47	10.85	11.34	D3000	9	LT	BL/BEIGE							8	NNB10LF	
15		68.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	7
16	5.00	70.94	0.21	0.47	10.80	11.34	D3000	9	LT	BL/BEIGE							9	NNB10LF	
17		73.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	8
18	5.00	75.94	0.22	0.47	10.77	11.34	D3000	9	LT	BL/BEIGE							10	NNB10LF	
19		78.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	9
20	4.95	80.89	0.23	0.47	10.74	11.34	D3000	9	LT	BL/BEIGE							11	NNB10LF	
21		83.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	10
22	4.95	85.84	0.25	0.47	10.71	11.34	D3000	9	LT	BL/BEIGE							12	NNB10LF	
23		88.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	11
24	5.00	90.84	0.26	0.47	10.70	11.34	D3000	9	LT	BL/BEIGE							13	NNB10LF	
25		93.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	12
26	5.00	95.84	0.28	0.47	10.69	11.34	D3000	9	LT	BL/BEIGE							14	NNB10LF	
27		98.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	13
28	5.00	100.84	0.29	0.47	10.69	11.34	D3000	9	LT	BL/BEIGE							15	NNB10LF	
29		103.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	14
30	5.00	105.84	0.30	0.47	10.70	11.34	D3000	9	LT	BL/BEIGE							16	NNB10LF	
31		108.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	15
32	5.00	110.84	0.32	0.47	10.72	11.34	D3000	9	LT	BL/BEIGE							17	NNB10LF	
33		113.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	16
34	5.00	115.84	0.33	0.47	10.74	11.34	D3000	9	LT	BL/BEIGE							18	NNB10LF	
35		118.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	17
36	5.00	120.84	0.35	0.47	10.78	11.34	D3000	9	LT	BL/BEIGE							19	NNB10LF	
37		123.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	18
38	5.00	125.84	0.36	0.47	10.82	11.35	D3000	9	LT	BL/BEIGE							20	NNB10LF	
39		128.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	19
40	5.00	130.84	0.38	0.47	10.87	11.35	D3000	9	LT	BL/BEIGE							21	NNB10LF	
41		133.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	20
42	5.00	135.84	0.39	0.47	10.92	11.34	D3000	9	LT	BL/BEIGE							22	NNB10LF	
43		138.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	21
44	5.00	140.84	0.41	0.47	10.99	11.35	D3000	9	LT	BL/BEIGE							23	NNB10LF	
45		143.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	22
46	5.00	145.84	0.42	0.47	11.06	11.35	D3000	9	LT	BL/BEIGE							24	NNB10LF	
47		148.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	23
48	5.00	150.84	0.43	0.47	11.14	11.35	D3000	9	LT	BL/BEIGE							25	NNB10LF	

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	270.95	0.78	0.76	9.87	6.87	D3000	13	GOLD/LIME								49	NNB06LF	
97		273.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
98	5.00	275.95	0.79	0.76	9.90	6.87	D3000	13	GOLD/LIME								50	NNB06LF	
99		278.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49
100	5.00	280.95	0.81	0.76	9.93	6.87	D3000	13	GOLD/LIME								51	NNB06LF	
101		283.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
102	5.00	285.95	0.82	0.88	9.97	6.84	D3000	14	LIME								52	NNB06LF	
103		288.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
104	5.00	290.95	0.84	0.88	10.03	6.84	D3000	14	LIME								53	NNB06LF	
105		293.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
106	5.00	295.95	0.85	0.88	10.08	6.84	D3000	14	LIME								54	NNB06LF	
107		298.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
108	5.00	300.95	0.87	0.88	10.15	6.84	D3000	14	LIME								55	NNB06LF	
109		303.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
110	5.00	305.95	0.88	0.88	10.22	6.84	D3000	14	LIME								56	NNB06LF	
111		308.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
112	5.00	310.95	0.89	0.88	10.31	6.84	D3000	14	LIME								57	NNB06LF	
113		313.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56
114	5.00	315.95	0.93	0.88	10.31	6.84	D3000	14	LIME								58	NNB06LF	
115		318.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
TOWER 2	160.11	320.96																	
116	5.21	321.16	0.94	0.88	10.28	6.84	D3000	14	LIME								59	NNB06LF	
117		323.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58
118	5.00	326.16	0.94	0.88	10.26	6.84	D3000	14	LIME								60	NNB06LF	
119		328.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59
120	5.00	331.16	0.95	1.01	10.17	6.81	D3000	15	LIME/LAV								61	NNB06LF	
121		333.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
122	5.00	336.16	0.97	1.01	10.04	6.81	D3000	15	LIME/LAV								62	NNB06LF	
123		338.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61
124	5.00	341.16	0.98	1.01	9.92	6.81	D3000	15	LIME/LAV								63	NNB06LF	
125		343.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62
126	5.00	346.16	1.00	1.01	9.80	6.81	D3000	15	LIME/LAV								64	NNB06LF	
127		348.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63
128	5.00	351.16	1.01	1.01	9.70	6.81	D3000	15	LIME/LAV								65	NNB06LF	
129		353.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64
130	5.00	356.16	1.02	1.01	9.60	6.81	D3000	15	LIME/LAV								66	NNB06LF	
131		358.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
132	5.00	361.16	1.04	1.01	9.51	6.81	D3000	15	LIME/LAV								67	NNB06LF	
133		363.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66
134	5.00	366.16	1.05	1.01	9.43	6.81	D3000	15	LIME/LAV								68	NNB06LF	
135		368.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
136	5.00	371.16	1.07	1.01	9.36	6.81	D3000	15	LIME/LAV								69	NNB06LF	
137		373.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68
138	5.00	376.16	1.08	1.15	9.29	6.78	D3000	16	LAVENDER								70	NNB06LF	
139		378.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69
140	5.00	381.16	1.10	1.15	9.24	6.78	D3000	16	LAVENDER								71	NNB06LF	
141		383.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
142	5.00	386.16	1.11	1.15	9.19	6.78	D3000	16	LAVENDER								72	NNB06LF	

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	5.00	626.17	1.80	1.79	8.86	6.64	D3000	20	TURQUOISE					120	NNB06LF	
239		628.67	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	119
240	5.00	631.17	1.81	1.79	8.95	6.64	D3000	20	TURQUOISE					121	NNB06LF	
241		633.67	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	120
242	5.00	636.17	1.87	1.93	8.95	6.61	D3000	21	TURQ/YEL					122	NNB06LF	
243		638.67	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	121
TOWER 4	160.11	641.18														
244	5.21	641.38	1.88	1.93	8.94	6.61	D3000	21	TURQ/YEL					123	NNB06LF	
245		643.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	122
246	5.00	646.38	1.86	1.79	8.92	6.64	D3000	20	TURQUOISE					124	NNB06LF	
247		648.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	123
248	5.00	651.38	1.87	1.93	8.84	6.61	D3000	21	TURQ/YEL					125	NNB06LF	
249		653.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	124
250	5.00	656.38	1.89	1.93	8.72	6.61	D3000	21	TURQ/YEL					126	NNB06LF	
251		658.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	125
252	5.00	661.38	1.90	1.93	8.61	6.61	D3000	21	TURQ/YEL					127	NNB06LF	
253		663.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	126
254	5.00	666.38	1.92	1.93	8.50	6.61	D3000	21	TURQ/YEL					128	NNB06LF	
255		668.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	127
256	5.00	671.38	1.93	1.93	8.40	6.61	D3000	21	TURQ/YEL					129	NNB06LF	
257		673.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	128
258	5.00	676.38	1.94	1.93	8.32	6.61	D3000	21	TURQ/YEL					130	NNB06LF	
259		678.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	129
260	5.00	681.38	1.96	1.93	8.24	6.61	D3000	21	TURQ/YEL					131	NNB06LF	
261		683.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	130
262	5.00	686.38	1.97	1.93	8.16	6.61	D3000	21	TURQ/YEL					132	NNB06LF	
263		688.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	131
264	5.00	691.38	1.99	1.93	8.10	6.61	D3000	21	TURQ/YEL					133	NNB06LF	
265		693.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	132
266	5.00	696.38	2.00	1.93	8.04	6.61	D3000	21	TURQ/YEL					134	NNB06LF	
267		698.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	133
268	5.00	701.38	2.02	1.93	7.99	6.61	D3000	21	TURQ/YEL					135	NNB06LF	
269		703.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	134
270	5.00	706.38	2.03	1.93	7.95	6.61	D3000	21	TURQ/YEL					136	NNB06LF	
271		708.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	135
272	5.00	711.38	2.05	2.14	7.92	6.58	D3000	22	YELLOW					137	NNB06LF	
273		713.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	136
274	5.00	716.38	2.05	2.14	7.90	6.58	D3000	22	YELLOW					138	NNB06LF	
275		718.88	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	137
276	4.95	721.33	2.05	2.14	7.88	6.58	D3000	22	YELLOW					139	NNB06LF	
277		723.78	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	138
278	4.95	726.28	2.08	2.14	7.87	6.58	D3000	22	YELLOW					140	NNB06LF	
279		728.78	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	139
280	5.00	731.28	2.10	2.14	7.87	6.58	D3000	22	YELLOW					141	NNB06LF	
281		733.78	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	140
282	5.00	736.28	2.12	2.14	7.88	6.58	D3000	22	YELLOW					142	NNB06LF	
283		738.78	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	141
284	5.00	741.28	2.13	2.14	7.89	6.58	D3000	22	YELLOW					143	NNB06LF	

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	5.00	861.49	2.48	2.54	7.60	6.53	D3000	24	RED								167	NNB06LF	
333		863.99	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	166
334	5.00	866.49	2.49	2.54	7.56	6.53	D3000	24	RED								168	NNB06LF	
335		868.99	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	167
336	5.00	871.49	2.50	2.54	7.54	6.53	D3000	24	RED								169	NNB06LF	
337		873.99	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	168
338	5.00	876.49	2.51	2.54	7.52	6.53	D3000	24	RED								170	NNB06LF	
339		878.99	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	169
340	4.95	881.44	2.51	2.54	7.51	6.53	D3000	24	RED								171	NNB06LF	
341		883.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	170
342	4.95	886.39	2.53	2.54	7.50	6.53	D3000	24	RED								172	NNB06LF	
343		888.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	171
344	5.00	891.39	2.56	2.54	7.51	6.53	D3000	24	RED								173	NNB06LF	
345		893.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	172
346	5.00	896.39	2.58	2.54	7.52	6.53	D3000	24	RED								174	NNB06LF	
347		898.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	173
348	5.00	901.39	2.59	2.54	7.54	6.53	D3000	24	RED								175	NNB06LF	
349		903.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	174
350	5.00	906.39	2.60	2.54	7.57	6.53	D3000	24	RED								176	NNB06LF	
351		908.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	175
352	5.00	911.39	2.62	2.54	7.60	6.53	D3000	24	RED								177	NNB06LF	
353		913.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	176
354	5.00	916.39	2.63	2.54	7.65	6.53	D3000	24	RED								178	NNB06LF	
355		918.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	177
356	5.00	921.39	2.65	2.75	7.70	6.50	D3000	25	RED/WHITE								179	NNB06LF	
357		923.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	178
358	5.00	926.39	2.66	2.75	7.76	6.50	D3000	25	RED/WHITE								180	NNB06LF	
359		928.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	179
360	5.00	931.39	2.68	2.75	7.83	6.50	D3000	25	RED/WHITE								181	NNB06LF	
361		933.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	180
362	5.00	936.39	2.69	2.75	7.90	6.50	D3000	25	RED/WHITE								182	NNB06LF	
363		938.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	181
364	5.00	941.39	2.70	2.75	7.99	6.50	D3000	25	RED/WHITE								183	NNB06LF	
365		943.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	182
366	5.00	946.39	2.72	2.75	8.08	6.50	D3000	25	RED/WHITE								184	NNB06LF	
367		948.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	183
368	5.00	951.39	2.73	2.75	8.18	6.50	D3000	25	RED/WHITE								185	NNB06LF	
369		953.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	184
370	5.00	956.39	2.80	2.75	8.20	6.50	D3000	25	RED/WHITE								186	NNB06LF	
371		958.89	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	185
TOWER 6	160.11	961.40																	
372	5.21	961.60	2.82	2.75	8.19	6.50	D3000	25	RED/WHITE								187	NNB06LF	
373		964.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	186
374	5.00	966.60	2.78	2.75	8.18	6.50	D3000	25	RED/WHITE								188	NNB06LF	
375		969.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	187
376	5.00	971.60	2.79	2.75	8.11	6.50	D3000	25	RED/WHITE								189	NNB06LF	
377		974.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	188
378	5.00	976.60	2.81	2.75	8.00	6.50	D3000	25	RED/WHITE								190	NNB06LF	

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		979.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	189
380	5.00	981.60	2.82	2.75	7.90	6.50	D3000	25	RED/WHITE								191	NNB06LF	
381		984.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	190
382	5.00	986.60	2.84	2.75	7.81	6.50	D3000	25	RED/WHITE								192	NNB06LF	
383		989.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	191
384	5.00	991.60	2.85	2.75	7.72	6.50	D3000	25	RED/WHITE								193	NNB06LF	
385		994.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	192
386	5.00	996.60	2.87	2.98	7.64	6.47	D3000	26	WHITE								194	NNB06LF	
387		999.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	193
388	5.00	1001.60	2.88	2.98	7.57	6.47	D3000	26	WHITE								195	NNB06LF	
389		1004.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	194
390	5.00	1006.60	2.89	2.98	7.51	6.47	D3000	26	WHITE								196	NNB06LF	
391		1009.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	195
392	5.00	1011.60	2.91	2.98	7.45	6.47	D3000	26	WHITE								197	NNB06LF	
393		1014.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	196
394	5.00	1016.60	2.92	2.98	7.41	6.47	D3000	26	WHITE								198	NNB06LF	
395		1019.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	197
396	5.00	1021.60	2.93	2.98	7.37	6.47	D3000	26	WHITE								199	NNB06LF	
397		1024.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	198
398	5.00	1026.60	2.95	2.98	7.34	6.47	D3000	26	WHITE								200	NNB06LF	
399		1029.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	199
400	5.00	1031.60	2.96	2.98	7.31	6.47	D3000	26	WHITE								201	NNB06LF	
401		1034.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	200
402	5.00	1036.60	2.96	2.98	7.30	6.47	D3000	26	WHITE								202	NNB06LF	
403		1039.10	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	201
404	4.95	1041.55	2.96	2.98	7.29	6.47	D3000	26	WHITE								203	NNB06LF	
405		1044.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	202
406	4.95	1046.50	2.99	2.98	7.29	6.47	D3000	26	WHITE								204	NNB06LF	
407		1049.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	203
408	5.00	1051.50	3.02	2.98	7.30	6.47	D3000	26	WHITE								205	NNB06LF	
409		1054.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	204
410	5.00	1056.50	3.03	2.98	7.32	6.47	D3000	26	WHITE								206	NNB06LF	
411		1059.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	205
412	5.00	1061.50	3.05	2.98	7.34	6.47	D3000	26	WHITE								207	NNB06LF	
413		1064.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	206
414	5.00	1066.50	3.06	2.98	7.38	6.47	D3000	26	WHITE								208	NNB06LF	
415		1069.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	207
416	5.00	1071.50	3.08	2.98	7.42	6.47	D3000	26	WHITE								209	NNB06LF	
417		1074.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	208
418	5.00	1076.50	3.10	3.18	7.47	6.44	D3000	27	WHITE/BLUE								210	NNB06LF	
419		1079.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	209
420	5.00	1081.50	3.11	3.18	7.52	6.44	D3000	27	WHITE/BLUE								211	NNB06LF	
421		1084.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	210
422	5.00	1086.50	3.12	3.18	7.59	6.44	D3000	27	WHITE/BLUE								212	NNB06LF	
423		1089.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	211
424	5.00	1091.50	3.14	3.18	7.66	6.44	D3000	27	WHITE/BLUE								213	NNB06LF	
425		1094.00	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	212
426	5.00	1096.50	3.15	3.18	7.74	6.45	D3000	27	WHITE/BLUE								214	NNB06LF	

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	5.00	1216.61	3.47	3.46	7.25	6.41	D3000	28	BLUE								238	NNB06LF	
475		1219.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237
476	5.00	1221.61	3.49	3.46	7.28	6.41	D3000	28	BLUE								239	NNB06LF	
477		1224.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238
478	5.00	1226.61	3.50	3.46	7.31	6.41	D3000	28	BLUE								240	NNB06LF	
479		1229.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	239
480	5.00	1231.61	3.52	3.46	7.36	6.41	D3000	28	BLUE								241	NNB06LF	
481		1234.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240
482	5.00	1236.61	3.54	3.46	7.41	6.41	D3000	28	BLUE								242	NNB06LF	
483		1239.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241
484	5.00	1241.61	3.56	3.46	7.47	6.41	D3000	28	BLUE								243	NNB06LF	
485		1244.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242
486	5.00	1246.61	3.58	3.69	7.54	6.38	D3000	29	BLUE/DK	BRN							244	NNB06LF	
487		1249.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243
488	5.00	1251.61	3.59	3.69	7.61	6.38	D3000	29	BLUE/DK	BRN							245	NNB06LF	
489		1254.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244
490	5.00	1256.61	3.59	3.69	7.70	6.38	D3000	29	BLUE/DK	BRN							246	NNB06LF	
491		1259.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245
492	5.00	1261.61	3.60	3.69	7.79	6.38	D3000	29	BLUE/DK	BRN							247	NNB06LF	
493		1264.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246
494	5.00	1266.61	3.60	3.69	7.89	6.38	D3000	29	BLUE/DK	BRN							248	NNB06LF	
495		1269.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247
496	5.00	1271.61	3.60	3.69	8.00	6.38	D3000	29	BLUE/DK	BRN							249	NNB06LF	
497		1274.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248
498	5.00	1276.61	3.59	3.69	8.02	6.38	D3000	29	BLUE/DK	BRN							250	NNB06LF	
499		1279.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249
TOWER 8	159.85	1281.36																	
500	4.95	1281.56	3.59	3.69	8.02	6.38	D3000	29	BLUE/DK	BRN							251	NNB06LF	
501		1284.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
502	5.00	1286.56	3.60	3.69	8.02	6.38	D3000	29	BLUE/DK	BRN							252	NNB06LF	
503		1289.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	251
504	5.00	1291.56	3.60	3.69	8.02	6.38	D3000	29	BLUE/DK	BRN							253	NNB06LF	
505		1294.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	252
506	5.00	1296.56	4.69	4.75	8.02	6.25	D3000	33	ORN/DK	GRN							254	NNB06LF	
507		1299.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253
		PIPE ID CHANGES FROM 6.415 TO 2.060																	
508	8.08	1304.64	4.68	4.75	8.01	6.25	D3000	33	ORN/DK	GRN							255	NNB06LF	
509	5.00	1309.64	4.43	4.46	8.01	6.28	D3000	32	ORANGE								256	NNB06LF	
OVERHANG	28.28	1309.64																	

TOTAL GPM = 500.94

GPA = 4.04

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI
WITH GRADUATED ELEVATION OF 2.00 FT THE INLET PRESSURE IS 11.43 PSI FOR SPRINKLER 255
THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	GPM PER ACRE	AVERAGE IN. PER HR DELIVERED UNDER SPAN	AVERAGE IN. DELIVERED FOR REVOLUTION TIME		
					36 HR	48 HR	60 HR	
1	1.87	7.54	12.39	6.64	0.015	0.53	0.70	0.88
2	5.56	22.49	21.99	3.95	0.009	0.31	0.42	0.52
3	9.26	37.43	36.98	3.99	0.009	0.32	0.42	0.53
4	12.96	52.38	51.84	4.00	0.009	0.32	0.42	0.53
5	16.66	67.33	66.45	3.99	0.009	0.32	0.42	0.53
6	20.35	82.27	81.24	3.99	0.009	0.32	0.42	0.53
7	24.05	97.22	95.76	3.98	0.009	0.32	0.42	0.53
8	27.70	111.97	110.95	4.01	0.009	0.32	0.42	0.53
OVERHANG	5.28	21.36	23.33	4.42	0.010	0.35	0.47	0.59
TOTAL	123.70	500.00	500.94	4.05				

SUMMARY OF SPRINKLERS

26 D3000 9 LT BL/BEIGE
3 D3000 10 BEIGE
7 D3000 11 BEIGE/GOLD
8 D3000 12 GOLD
7 D3000 13 GOLD/LIME
9 D3000 14 LIME
9 D3000 15 LIME/LAV
10 D3000 16 LAVENDER
10 D3000 17 LAV/GRAY
11 D3000 18 GRAY
13 D3000 19 GRAY/TURQ
9 D3000 20 TURQUOISE
14 D3000 21 TURQ/YEL
13 D3000 22 YELLOW
14 D3000 23 YEL/RED
15 D3000 24 RED

SUMMARY OF REGULATORS

26 NNB10LF
230 NNB06LF

15 D3000 25 RED/WHITE
16 D3000 26 WHITE
15 D3000 27 WHITE/BLUE
19 D3000 28 BLUE
10 D3000 29 BLUE/DK BRN
1 D3000 32 ORANGE
2 D3000 33 ORN/DK GRN
253 PLUGS

TOTAL OF 256 REGULATORS

NOZZLE POSITION CHART

D3000 9 LT BL/BEIGE	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
D3000 10 BEIGE	27, 28, 29
D3000 11 BEIGE/GOLD	30, 31, 32, 33, 34, 35, 36
D3000 12 GOLD	37, 38, 39, 40, 41, 42, 43, 44
D3000 13 GOLD/LIME	45, 46, 47, 48, 49, 50, 51
D3000 14 LIME	52, 53, 54, 55, 56, 57, 58, 59, 60
D3000 15 LIME/LAV	61, 62, 63, 64, 65, 66, 67, 68, 69
D3000 16 LAVENDER	70, 71, 72, 73, 74, 75, 76, 77, 78, 79
D3000 17 LAV/GRAY	80, 81, 82, 83, 84, 85, 86, 87, 88, 89
D3000 18 GRAY	90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
D3000 19 GRAY/TURQ	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113
D3000 20 TURQUOISE	114, 115, 116, 117, 118, 119, 120, 121, 124
D3000 21 TURQ/YEL	122, 123, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136
D3000 22 YELLOW	137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149
D3000 23 YEL/RED	150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163
D3000 24 RED	164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178
D3000 25 RED/WHITE	179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193
D3000 26 WHITE	194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209
D3000 27 WHITE/BLUE	210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224
D3000 28 BLUE	225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243
D3000 29 BLUE/DK BRN	244, 245, 246, 247, 248, 249, 250, 251, 252, 253
D3000 32 ORANGE	256
D3000 33 ORN/DK GRN	254, 255

PRECIPITATION CHART

OCTOBER 13, 2014

DEALER - TEETER IRRIGATION

IRRIGATOR - BRENT WOODS
FIELD NO - SW 1/4 1-31-31TOTAL LENGTH PIPE = 1309.64
GPM UNDER PIPE = 500.94
ACRES UNDER PIPE = 123.70
RANGE OF ENDGUN = .00
GPM OF ENDGUN = .00
ACRES UNDER ENDGUN = .00SYSTEM PRESSURE = 12 PSI
TOTAL GPM = 500.94MOTOR 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
.13	100.00	14.29 - 857 min	100.00	.13	14.29 - 857 min
.20	63.92	22.35	90.00	.14	15.87
.25	51.13	27.94	80.00	.16	17.86
.30	42.61	33.53	70.00	.18	20.41
.40	31.96	44.70	60.00	.21	23.81
.50	25.57	55.88	50.00	.26	28.57
.60	21.31	67.05	45.00	.28	31.75
.70	18.26	78.23	40.00	.32	35.72
.75	17.04	83.82	35.00	.37	40.82
.80	15.98	89.41	30.00	.43	47.62
.90	14.20	100.58	25.00	.51	57.14
1.00	12.78	111.76	20.00	.64	71.43
1.25	10.23	139.70	15.00	.85	95.24
1.50	8.52	167.64	10.00	1.28	142.86
1.75	7.30	195.58	5.00	2.56	285.72

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.

TEETER IRRIGATION
1310 ONTARIO STREET
PLAINS, KANSAS 67869

OCTOBER 13, 2014
WISH-79258
BRENT WOODS
SW 1/4 1-31-31
500 @ 12 PSI

VALLEY 8000 - 30
NELSON D3000 SPRAY NOZZLES
NELSON 10 & 6 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 14.29 Hours Or 857 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				48		25	9	10LF	43		48	13	6LF	25		71	16	6LF	7		94	18	6LF
2	PLUG				49	PLUG				44	PLUG				26	PLUG				8	PLUG			
3		1	9	10LF	50		26	9	10LF	45		49	13	6LF	27		72	16	6LF	9		95	18	6LF
4		2	9	10LF	51	PLUG				46	PLUG				28	PLUG				10	PLUG			
5		3	9	10LF	TOWER 1					47		50	13	6LF	29		73	16	6LF	11		96	18	6LF
6		4	9	10LF	1		27	10	6LF	48	PLUG				30	PLUG				12	PLUG			
7	PLUG				2	PLUG				49		51	13	6LF	31		74	16	6LF	13		97	18	6LF
8		5	9	10LF	3		28	10	6LF	50	PLUG				32	PLUG				14	PLUG			
9	PLUG				4	PLUG				51		52	14	6LF	33		75	16	6LF	15		98	18	6LF
10		6	9	10LF	5		29	10	6LF	52	PLUG				34	PLUG				16	PLUG			
11	PLUG				6	PLUG				53		53	14	6LF	35		76	16	6LF	17		99	18	6LF
12		7	9	10LF	7		30	11	6LF	54	PLUG				36	PLUG				18	PLUG			
13	PLUG				8	PLUG				55		54	14	6LF	37		77	16	6LF	19		100	18	6LF
14		8	9	10LF	9		31	11	6LF	56	PLUG				38	PLUG				20	PLUG			
15	PLUG				10	PLUG				57		55	14	6LF	39		78	16	6LF	21		101	19	6LF
16		9	9	10LF	11		32	11	6LF	58	PLUG				40	PLUG				22	PLUG			
17	PLUG				12	PLUG				59		56	14	6LF	41		79	16	6LF	23		102	19	6LF
18		10	9	10LF	13		33	11	6LF	60	PLUG				42	PLUG				24	PLUG			
19	PLUG				14	PLUG				61		57	14	6LF	43		80	17	6LF	25		103	19	6LF
20		11	9	10LF	15		34	11	6LF	62	PLUG				44	PLUG				26	PLUG			
21	PLUG				16	PLUG				63		58	14	6LF	45		81	17	6LF	27		104	19	6LF
22		12	9	10LF	17		35	11	6LF	64	PLUG				46	PLUG				28	PLUG			
23	PLUG				18	PLUG				TOWER 2					47		82	17	6LF	29		105	19	6LF
24		13	9	10LF	19		36	11	6LF	1		59	14	6LF	48	PLUG				30	PLUG			
25	PLUG				20	PLUG				2	PLUG				49		83	17	6LF	31		106	19	6LF
26		14	9	10LF	21		37	12	6LF	3		60	14	6LF	50	PLUG				32	PLUG			
27	PLUG				22	PLUG				4	PLUG				51		84	17	6LF	33		107	19	6LF
28		15	9	10LF	23		38	12	6LF	5		61	15	6LF	52	PLUG				34	PLUG			
29	PLUG				24	PLUG				6	PLUG				53		85	17	6LF	35		108	19	6LF
30		16	9	10LF	25		39	12	6LF	7		62	15	6LF	54	PLUG				36	PLUG			
31	PLUG				26	PLUG				8	PLUG				55		86	17	6LF	37		109	19	6LF
32		17	9	10LF	27		40	12	6LF	9		63	15	6LF	56	PLUG				38	PLUG			
33	PLUG				28	PLUG				10	PLUG				57		87	17	6LF	39		110	19	6LF
34		18	9	10LF	29		41	12	6LF	11		64	15	6LF	58	PLUG				40	PLUG			
35	PLUG				30	PLUG				12	PLUG				59		88	17	6LF	41		111	19	6LF
36		19	9	10LF	31		42	12	6LF	13		65	15	6LF	60	PLUG				42	PLUG			
37	PLUG				32	PLUG				14	PLUG				61		89	17	6LF	43		112	19	6LF
38		20	9	10LF	33		43	12	6LF	15		66	15	6LF	62	PLUG				44	PLUG			
39	PLUG				34	PLUG				16	PLUG				63		90	18	6LF	45		113	19	6LF
40		21	9	10LF	35		44	12	6LF	17		67	15	6LF	64	PLUG				46	PLUG			
41	PLUG				36	PLUG				18	PLUG				TOWER 3					47		114	20	6LF
42		22	9	10LF	37		45	13	6LF	19		68	15	6LF	1		91	18	6LF	48	PLUG			
43	PLUG				38	PLUG				20	PLUG				2	PLUG				49		115	20	6LF
44		23	9	10LF	39		46	13	6LF	21		69	15	6LF	3		92	18	6LF	50	PLUG			
45	PLUG				40	PLUG				22	PLUG				4	PLUG				51		116	20	6LF
46		24	9	10LF	41		47	13	6LF	23		70	16	6LF	5		93	18	6LF	52	PLUG			
47	PLUG				42	PLUG				24	PLUG				6	PLUG				53		117	20	6LF

TEETER IRRIGATION
1310 ONTARIO STREET
PLAINS, KANSAS 67869

OCTOBER 13, 2014
WISH-79258
BRENT WOODS
SW 1/4 1-31-31
500 @ 12 PSI

VALLEY 8000 - 30
NELSON D3000 SPRAY NOZZLES
NELSON 10 & 6 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 14.29 Hours Or 857 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
54	PLUG				36	PLUG				18	PLUG				TOWER 6					47		210	27	6LF
55		118	20	6LF	37		141	22	6LF	19		164	24	6LF	1		187	25	6LF	48	PLUG			
56	PLUG				38	PLUG				20	PLUG				2	PLUG				49		211	27	6LF
57		119	20	6LF	39		142	22	6LF	21		165	24	6LF	3		188	25	6LF	50	PLUG			
58	PLUG				40	PLUG				22	PLUG				4	PLUG				51		212	27	6LF
59		120	20	6LF	41		143	22	6LF	23		166	24	6LF	5		189	25	6LF	52	PLUG			
60	PLUG				42	PLUG				24	PLUG				6	PLUG				53		213	27	6LF
61		121	20	6LF	43		144	22	6LF	25		167	24	6LF	7		190	25	6LF	54	PLUG			
62	PLUG				44	PLUG				26	PLUG				8	PLUG				55		214	27	6LF
63		122	21	6LF	45		145	22	6LF	27		168	24	6LF	9		191	25	6LF	56	PLUG			
64	PLUG				46	PLUG				28	PLUG				10	PLUG				57		215	27	6LF
TOWER 4					47		146	22	6LF	29		169	24	6LF	11		192	25	6LF	58	PLUG			
1		123	21	6LF	48	PLUG				30	PLUG				12	PLUG				59		216	27	6LF
2	PLUG				49		147	22	6LF	31		170	24	6LF	13		193	25	6LF	60	PLUG			
3		124	20	6LF	50	PLUG				32	PLUG				14	PLUG				61		217	27	6LF
4	PLUG				51		148	22	6LF	33		171	24	6LF	15		194	26	6LF	62	PLUG			
5		125	21	6LF	52	PLUG				34	PLUG				16	PLUG				63		218	27	6LF
6	PLUG				53		149	22	6LF	35		172	24	6LF	17		195	26	6LF	64	PLUG			
7		126	21	6LF	54	PLUG				36	PLUG				18	PLUG				TOWER 7				
8	PLUG				55		150	23	6LF	37		173	24	6LF	19		196	26	6LF	1		219	27	6LF
9		127	21	6LF	56	PLUG				38	PLUG				20	PLUG				2	PLUG			
10	PLUG				57		151	23	6LF	39		174	24	6LF	21		197	26	6LF	3		220	27	6LF
11		128	21	6LF	58	PLUG				40	PLUG				22	PLUG				4	PLUG			
12	PLUG				59		152	23	6LF	41		175	24	6LF	23		198	26	6LF	5		221	27	6LF
13		129	21	6LF	60	PLUG				42	PLUG				24	PLUG				6	PLUG			
14	PLUG				61		153	23	6LF	43		176	24	6LF	25		199	26	6LF	7		222	27	6LF
15		130	21	6LF	62	PLUG				44	PLUG				26	PLUG				8	PLUG			
16	PLUG				63		154	23	6LF	45		177	24	6LF	27		200	26	6LF	9		223	27	6LF
17		131	21	6LF	64	PLUG				46	PLUG				28	PLUG				10	PLUG			
18	PLUG				TOWER 5					47		178	24	6LF	29		201	26	6LF	11		224	27	6LF
19		132	21	6LF	1		155	23	6LF	48	PLUG				30	PLUG				12	PLUG			
20	PLUG				2	PLUG				49		179	25	6LF	31		202	26	6LF	13		225	28	6LF
21		133	21	6LF	3		156	23	6LF	50	PLUG				32	PLUG				14	PLUG			
22	PLUG				4	PLUG				51		180	25	6LF	33		203	26	6LF	15		226	28	6LF
23		134	21	6LF	5		157	23	6LF	52	PLUG				34	PLUG				16	PLUG			
24	PLUG				6	PLUG				53		181	25	6LF	35		204	26	6LF	17		227	28	6LF
25		135	21	6LF	7		158	23	6LF	54	PLUG				36	PLUG				18	PLUG			
26	PLUG				8	PLUG				55		182	25	6LF	37		205	26	6LF	19		228	28	6LF
27		136	21	6LF	9		159	23	6LF	56	PLUG				38	PLUG				20	PLUG			
28	PLUG				10	PLUG				57		183	25	6LF	39		206	26	6LF	21		229	28	6LF
29		137	22	6LF	11		160	23	6LF	58	PLUG				40	PLUG				22	PLUG			
30	PLUG				12	PLUG				59		184	25	6LF	41		207	26	6LF	23		230	28	6LF
31		138	22	6LF	13		161	23	6LF	60	PLUG				42	PLUG				24	PLUG			
32	PLUG				14	PLUG				61		185	25	6LF	43		208	26	6LF	25		231	28	6LF
33		139	22	6LF	15		162	23	6LF	62	PLUG				44	PLUG				26	PLUG			
34	PLUG				16	PLUG				63		186	25	6LF	45		209	26	6LF	27		232	28	6LF
35		140	22	6LF	17		163	23	6LF	64	PLUG				46	PLUG				28	PLUG			

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500 @ 12 PSI

VALLEY 8000 - 30
NELSON D3000 SPRAY NOZZLES
NELSON 10 & 6 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 14.29 Hours Or 857 minutes

Out #	Drop Len	Sprk #	Noz Size	Reg				
29		233	28	6LF				
30	PLUG							
31		234	28	6LF				
32	PLUG							
33		235	28	6LF				
34	PLUG							
35		236	28	6LF				
36	PLUG							
37		237	28	6LF				
38	PLUG							
39		238	28	6LF				
40	PLUG							
41		239	28	6LF				
42	PLUG							
43		240	28	6LF				
44	PLUG							
45		241	28	6LF				
46	PLUG							
47		242	28	6LF				
48	PLUG							
49		243	28	6LF				
50	PLUG							
51		244	29	6LF				
52	PLUG							
53		245	29	6LF				
54	PLUG							
55		246	29	6LF				
56	PLUG							
57		247	29	6LF				
58	PLUG							
59		248	29	6LF				
60	PLUG							
61		249	29	6LF				
62	PLUG							
63		250	29	6LF				
64	PLUG							
TOWER 8								
1		251	29	6LF				
2	PLUG							
3		252	29	6LF				
4	PLUG							
5		253	29	6LF				
6	PLUG							
7		254	33	6LF				
8	PLUG							
9		255	33	6LF				
10		256	32	6LF				