

TEETER IRRIGATION

APRIL 01, 2014

WISH-76505

CUSTOMER : BRENT WOODS

VALLEY 8000 - 30
8 TOWER - 1309.64 FT
SYSTEM 600 GPM @ 14 PSI

P.O. NO. : 753221
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

APRIL 01, 2014

WISH-76505

DEALER

TEETER IRRIGATION
1310 ONTARIO STREET
PLAINS, KANSAS 67869

IRRIGATOR

BRENT WOODS
SW 1/4 1-31-31
753221

TOTAL TARGET GPM	600.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	14.00	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	0.27	0.47	13.50	11.32	D3000	9	LT	BL/BEIGE							1	NNB10LF	
4	9.00	32.40	0.20	0.47	13.29	11.32	D3000	9	LT	BL/BEIGE							2	NNB10LF	
5	9.00	41.40	0.19	0.47	13.10	11.32	D3000	9	LT	BL/BEIGE							3	NNB10LF	
6	4.54	45.94	0.15	0.47	13.01	11.32	D3000	9	LT	BL/BEIGE							4	NNB10LF	
7		48.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	3
8	5.00	50.94	0.18	0.47	12.92	11.32	D3000	9	LT	BL/BEIGE							5	NNB10LF	
9		53.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	4
10	5.00	55.94	0.19	0.47	12.84	11.32	D3000	9	LT	BL/BEIGE							6	NNB10LF	
11		58.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	5
12	5.00	60.94	0.21	0.47	12.77	11.32	D3000	9	LT	BL/BEIGE							7	NNB10LF	
13		63.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	6
14	5.00	65.94	0.23	0.47	12.70	11.32	D3000	9	LT	BL/BEIGE							8	NNB10LF	
15		68.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	7
16	5.00	70.94	0.25	0.47	12.65	11.32	D3000	9	LT	BL/BEIGE							9	NNB10LF	
17		73.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	8
18	5.00	75.94	0.26	0.47	12.60	11.32	D3000	9	LT	BL/BEIGE							10	NNB10LF	
19		78.44	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	9
20	4.95	80.89	0.28	0.47	12.56	11.32	D3000	9	LT	BL/BEIGE							11	NNB10LF	
21		83.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	10
22	4.95	85.84	0.30	0.47	12.52	11.32	D3000	9	LT	BL/BEIGE							12	NNB10LF	
23		88.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	11
24	5.00	90.84	0.31	0.47	12.50	11.32	D3000	9	LT	BL/BEIGE							13	NNB10LF	
25		93.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	12
26	5.00	95.84	0.33	0.47	12.48	11.32	D3000	9	LT	BL/BEIGE							14	NNB10LF	
27		98.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	13
28	5.00	100.84	0.35	0.47	12.47	11.32	D3000	9	LT	BL/BEIGE							15	NNB10LF	
29		103.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	14
30	5.00	105.84	0.37	0.47	12.47	11.32	D3000	9	LT	BL/BEIGE							16	NNB10LF	
31		108.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	15
32	5.00	110.84	0.38	0.47	12.47	11.33	D3000	9	LT	BL/BEIGE							17	NNB10LF	
33		113.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	16
34	5.00	115.84	0.40	0.47	12.49	11.33	D3000	9	LT	BL/BEIGE							18	NNB10LF	
35		118.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	17
36	5.00	120.84	0.42	0.47	12.51	11.33	D3000	9	LT	BL/BEIGE							19	NNB10LF	
37		123.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	18
38	5.00	125.84	0.44	0.47	12.54	11.33	D3000	9	LT	BL/BEIGE							20	NNB10LF	
39		128.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	19
40	5.00	130.84	0.45	0.47	12.58	11.33	D3000	9	LT	BL/BEIGE							21	NNB10LF	
41		133.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	20
42	5.00	135.84	0.47	0.47	12.62	11.33	D3000	9	LT	BL/BEIGE							22	NNB10LF	
43		138.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	21
44	5.00	140.84	0.49	0.47	12.67	11.33	D3000	9	LT	BL/BEIGE							23	NNB10LF	
45		143.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	22
46	5.00	145.84	0.50	0.47	12.74	11.33	D3000	9	LT	BL/BEIGE							24	NNB10LF	
47		148.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	23
48	5.00	150.84	0.52	0.57	12.80	11.31	D3000	10	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.
49		153.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	24
50	5.00	155.84	0.55	0.57	12.79	11.31	D3000	10	BEIGE	26	NNB10LF	
51		158.34	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	25
TOWER 1	160.85	160.85										
52	5.21	161.05	0.57	0.54	12.75	6.95	D3000	11	BEIGE/GOLD	27	NNB06LF	
53		163.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	26
54	5.00	166.05	0.57	0.54	12.72	6.95	D3000	11	BEIGE/GOLD	28	NNB06LF	
55		168.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	27
56	5.00	171.05	0.59	0.54	12.61	6.95	D3000	11	BEIGE/GOLD	29	NNB06LF	
57		173.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	28
58	5.00	176.05	0.61	0.66	12.47	6.92	D3000	12	GOLD	30	NNB06LF	
59		178.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	29
60	5.00	181.05	0.63	0.66	12.34	6.92	D3000	12	GOLD	31	NNB06LF	
61		183.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	30
62	5.00	186.05	0.64	0.66	12.21	6.92	D3000	12	GOLD	32	NNB06LF	
63		188.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	31
64	5.00	191.05	0.66	0.66	12.09	6.92	D3000	12	GOLD	33	NNB06LF	
65		193.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	32
66	5.00	196.05	0.68	0.66	11.98	6.92	D3000	12	GOLD	34	NNB06LF	
67		198.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	33
68	5.00	201.05	0.70	0.66	11.88	6.92	D3000	12	GOLD	35	NNB06LF	
69		203.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	34
70	5.00	206.05	0.71	0.76	11.79	6.89	D3000	13	GOLD/LIME	36	NNB06LF	
71		208.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	35
72	5.00	211.05	0.73	0.76	11.70	6.89	D3000	13	GOLD/LIME	37	NNB06LF	
73		213.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	36
74	5.00	216.05	0.75	0.76	11.62	6.89	D3000	13	GOLD/LIME	38	NNB06LF	
75		218.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	37
76	5.00	221.05	0.76	0.76	11.55	6.89	D3000	13	GOLD/LIME	39	NNB06LF	
77		223.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	38
78	5.00	226.05	0.78	0.76	11.49	6.89	D3000	13	GOLD/LIME	40	NNB06LF	
79		228.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	39
80	5.00	231.05	0.80	0.76	11.43	6.89	D3000	13	GOLD/LIME	41	NNB06LF	
81		233.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	40
82	5.00	236.05	0.81	0.76	11.39	6.89	D3000	13	GOLD/LIME	42	NNB06LF	
83		238.55	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	41
84	4.95	241.00	0.83	0.88	11.35	6.86	D3000	14	LIME	43	NNB06LF	
85		243.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	42
86	4.95	245.95	0.85	0.88	11.32	6.86	D3000	14	LIME	44	NNB06LF	
87		248.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	43
88	5.00	250.95	0.87	0.88	11.29	6.86	D3000	14	LIME	45	NNB06LF	
89		253.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	44
90	5.00	255.95	0.89	0.88	11.28	6.86	D3000	14	LIME	46	NNB06LF	
91		258.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	45
92	5.00	260.95	0.90	0.88	11.27	6.86	D3000	14	LIME	47	NNB06LF	
93		263.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	46
94	5.00	265.95	0.92	0.88	11.27	6.86	D3000	14	LIME	48	NNB06LF	
95		268.45	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	47

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	0.94	0.88	11.28	6.86	D3000	14	LIME								49	NNB06LF	
97		273.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	48
98	5.00	275.95	0.95	1.01	11.30	6.83	D3000	15	LIME/LAV								50	NNB06LF	
99		278.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	49
100	5.00	280.95	0.97	1.01	11.32	6.83	D3000	15	LIME/LAV								51	NNB06LF	
101		283.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	50
102	5.00	285.95	0.99	1.01	11.35	6.83	D3000	15	LIME/LAV								52	NNB06LF	
103		288.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	51
104	5.00	290.95	1.01	1.01	11.39	6.83	D3000	15	LIME/LAV								53	NNB06LF	
105		293.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	52
106	5.00	295.95	1.02	1.01	11.44	6.83	D3000	15	LIME/LAV								54	NNB06LF	
107		298.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	53
108	5.00	300.95	1.04	1.01	11.50	6.83	D3000	15	LIME/LAV								55	NNB06LF	
109		303.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	54
110	5.00	305.95	1.06	1.01	11.56	6.83	D3000	15	LIME/LAV								56	NNB06LF	
111		308.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	55
112	5.00	310.95	1.08	1.01	11.63	6.83	D3000	15	LIME/LAV								57	NNB06LF	
113		313.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	56
114	5.00	315.95	1.12	1.15	11.62	6.80	D3000	16	LAVENDER								58	NNB06LF	
115		318.45	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	57
TOWER 2	160.11	320.96																	
116	5.21	321.16	1.13	1.15	11.59	6.80	D3000	16	LAVENDER								59	NNB06LF	
117		323.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	58
118	5.00	326.16	1.13	1.15	11.55	6.80	D3000	16	LAVENDER								60	NNB06LF	
119		328.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	59
120	5.00	331.16	1.15	1.15	11.45	6.80	D3000	16	LAVENDER								61	NNB06LF	
121		333.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	60
122	5.00	336.16	1.16	1.15	11.31	6.80	D3000	16	LAVENDER								62	NNB06LF	
123		338.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	61
124	5.00	341.16	1.18	1.15	11.18	6.80	D3000	16	LAVENDER								63	NNB06LF	
125		343.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	62
126	5.00	346.16	1.20	1.15	11.06	6.80	D3000	16	LAVENDER								64	NNB06LF	
127		348.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	63
128	5.00	351.16	1.21	1.15	10.95	6.80	D3000	16	LAVENDER								65	NNB06LF	
129		353.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	64
130	5.00	356.16	1.23	1.30	10.84	6.76	D3000	17	LAV/GRAY								66	NNB06LF	
131		358.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	65
132	5.00	361.16	1.25	1.30	10.74	6.76	D3000	17	LAV/GRAY								67	NNB06LF	
133		363.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	66
134	5.00	366.16	1.27	1.30	10.65	6.76	D3000	17	LAV/GRAY								68	NNB06LF	
135		368.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	67
136	5.00	371.16	1.28	1.30	10.57	6.76	D3000	17	LAV/GRAY								69	NNB06LF	
137		373.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	68
138	5.00	376.16	1.30	1.30	10.49	6.76	D3000	17	LAV/GRAY								70	NNB06LF	
139		378.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	69
140	5.00	381.16	1.32	1.30	10.43	6.76	D3000	17	LAV/GRAY								71	NNB06LF	
141		383.66	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	70
142	5.00	386.16	1.34	1.30	10.37	6.76	D3000	17	LAV/GRAY								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	2.17	2.14	9.63	6.58	D3000	22	YELLOW								120	NNB06LF	
239		628.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 119
240	5.00	631.17	2.18	2.14	9.72	6.58	D3000	22	YELLOW								121	NNB06LF	
241		633.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 120
242	5.00	636.17	2.25	2.32	9.72	6.56	D3000	23	YEL/RED								122	NNB06LF	
243		638.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 121
TOWER 4	160.11	641.18																	
244	5.21	641.38	2.27	2.32	9.70	6.56	D3000	23	YEL/RED								123	NNB06LF	
245		643.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 122
246	5.00	646.38	2.24	2.32	9.67	6.56	D3000	23	YEL/RED								124	NNB06LF	
247		648.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 123
248	5.00	651.38	2.25	2.32	9.58	6.56	D3000	23	YEL/RED								125	NNB06LF	
249		653.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 124
250	5.00	656.38	2.27	2.32	9.46	6.56	D3000	23	YEL/RED								126	NNB06LF	
251		658.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 125
252	5.00	661.38	2.29	2.32	9.34	6.56	D3000	23	YEL/RED								127	NNB06LF	
253		663.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 126
254	5.00	666.38	2.30	2.32	9.23	6.56	D3000	23	YEL/RED								128	NNB06LF	
255		668.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 127
256	5.00	671.38	2.32	2.32	9.12	6.56	D3000	23	YEL/RED								129	NNB06LF	
257		673.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 128
258	5.00	676.38	2.34	2.32	9.03	6.56	D3000	23	YEL/RED								130	NNB06LF	
259		678.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 129
260	5.00	681.38	2.36	2.32	8.94	6.56	D3000	23	YEL/RED								131	NNB06LF	
261		683.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 130
262	5.00	686.38	2.37	2.32	8.86	6.56	D3000	23	YEL/RED								132	NNB06LF	
263		688.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 131
264	5.00	691.38	2.39	2.32	8.79	6.56	D3000	23	YEL/RED								133	NNB06LF	
265		693.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 132
266	5.00	696.38	2.41	2.32	8.73	6.56	D3000	23	YEL/RED								134	NNB06LF	
267		698.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 133
268	5.00	701.38	2.43	2.32	8.67	6.56	D3000	23	YEL/RED								135	NNB06LF	
269		703.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 134
270	5.00	706.38	2.44	2.55	8.63	6.53	D3000	24	RED								136	NNB06LF	
271		708.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 135
272	5.00	711.38	2.46	2.55	8.59	6.53	D3000	24	RED								137	NNB06LF	
273		713.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 136
274	5.00	716.38	2.47	2.55	8.56	6.53	D3000	24	RED								138	NNB06LF	
275		718.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 137
276	4.95	721.33	2.47	2.55	8.54	6.53	D3000	24	RED								139	NNB06LF	
277		723.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 138
278	4.95	726.28	2.50	2.55	8.52	6.53	D3000	24	RED								140	NNB06LF	
279		728.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 139
280	5.00	731.28	2.53	2.55	8.52	6.53	D3000	24	RED								141	NNB06LF	
281		733.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 140
282	5.00	736.28	2.55	2.55	8.52	6.53	D3000	24	RED								142	NNB06LF	
283		738.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 141
284	5.00	741.28	2.56	2.55	8.53	6.53	D3000	24	RED								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	2.98	2.98	8.12	6.47	D3000	26	WHITE								167	NNB06LF	
333		863.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 166
334	5.00	866.49	3.00	2.98	8.08	6.47	D3000	26	WHITE								168	NNB06LF	
335		868.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 167
336	5.00	871.49	3.01	2.98	8.05	6.47	D3000	26	WHITE								169	NNB06LF	
337		873.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 168
338	5.00	876.49	3.02	2.98	8.03	6.47	D3000	26	WHITE								170	NNB06LF	
339		878.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 169
340	4.95	881.44	3.02	2.98	8.01	6.47	D3000	26	WHITE								171	NNB06LF	
341		883.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 170
342	4.95	886.39	3.05	2.98	8.00	6.47	D3000	26	WHITE								172	NNB06LF	
343		888.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 171
344	5.00	891.39	3.08	3.18	8.00	6.45	D3000	27	WHITE/BLUE								173	NNB06LF	
345		893.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 172
346	5.00	896.39	3.10	3.18	8.01	6.45	D3000	27	WHITE/BLUE								174	NNB06LF	
347		898.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 173
348	5.00	901.39	3.12	3.18	8.03	6.45	D3000	27	WHITE/BLUE								175	NNB06LF	
349		903.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 174
350	5.00	906.39	3.13	3.18	8.05	6.45	D3000	27	WHITE/BLUE								176	NNB06LF	
351		908.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 175
352	5.00	911.39	3.15	3.18	8.09	6.45	D3000	27	WHITE/BLUE								177	NNB06LF	
353		913.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 176
354	5.00	916.39	3.17	3.18	8.13	6.45	D3000	27	WHITE/BLUE								178	NNB06LF	
355		918.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 177
356	5.00	921.39	3.18	3.18	8.18	6.45	D3000	27	WHITE/BLUE								179	NNB06LF	
357		923.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 178
358	5.00	926.39	3.20	3.18	8.23	6.45	D3000	27	WHITE/BLUE								180	NNB06LF	
359		928.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 179
360	5.00	931.39	3.22	3.18	8.30	6.45	D3000	27	WHITE/BLUE								181	NNB06LF	
361		933.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 180
362	5.00	936.39	3.24	3.18	8.37	6.45	D3000	27	WHITE/BLUE								182	NNB06LF	
363		938.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 181
364	5.00	941.39	3.25	3.18	8.45	6.45	D3000	27	WHITE/BLUE								183	NNB06LF	
365		943.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 182
366	5.00	946.39	3.27	3.18	8.54	6.45	D3000	27	WHITE/BLUE								184	NNB06LF	
367		948.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 183
368	5.00	951.39	3.29	3.18	8.64	6.45	D3000	27	WHITE/BLUE								185	NNB06LF	
369		953.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 184
370	5.00	956.39	3.38	3.46	8.66	6.41	D3000	28	BLUE								186	NNB06LF	
371		958.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 185
TOWER 6	160.11	961.40																	
372	5.21	961.60	3.40	3.46	8.65	6.41	D3000	28	BLUE								187	NNB06LF	
373		964.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 186
374	5.00	966.60	3.34	3.46	8.64	6.41	D3000	28	BLUE								188	NNB06LF	
375		969.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 187
376	5.00	971.60	3.36	3.46	8.56	6.41	D3000	28	BLUE								189	NNB06LF	
377		974.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 188
378	5.00	976.60	3.38	3.46	8.45	6.41	D3000	28	BLUE								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	3.39	3.46	8.34	6.41	D3000	28	BLUE				191	NNB06LF	- 190
381		984.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 191
382	5.00	986.60	3.41	3.46	8.25	6.41	D3000	28	BLUE				192	NNB06LF	- 192
383		989.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 193
384	5.00	991.60	3.42	3.46	8.16	6.41	D3000	28	BLUE				193	NNB06LF	- 194
385		994.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 195
386	5.00	996.60	3.44	3.46	8.08	6.41	D3000	28	BLUE				194	NNB06LF	- 196
387		999.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 197
388	5.00	1001.60	3.46	3.46	8.00	6.41	D3000	28	BLUE				195	NNB06LF	- 198
389		1004.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 199
390	5.00	1006.60	3.48	3.46	7.94	6.41	D3000	28	BLUE				196	NNB06LF	- 200
391		1009.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 201
392	5.00	1011.60	3.49	3.46	7.88	6.41	D3000	28	BLUE				197	NNB06LF	- 202
393		1014.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 203
394	5.00	1016.60	3.51	3.46	7.83	6.41	D3000	28	BLUE				198	NNB06LF	- 204
395		1019.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 205
396	5.00	1021.60	3.53	3.46	7.79	6.41	D3000	28	BLUE				199	NNB06LF	- 206
397		1024.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 207
398	5.00	1026.60	3.55	3.46	7.76	6.41	D3000	28	BLUE				200	NNB06LF	- 208
399		1029.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 209
400	5.00	1031.60	3.56	3.46	7.74	6.41	D3000	28	BLUE				201	NNB06LF	- 210
401		1034.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 211
402	5.00	1036.60	3.57	3.46	7.72	6.41	D3000	28	BLUE				202	NNB06LF	- 212
403		1039.10	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 213
404	4.95	1041.55	3.57	3.46	7.71	6.41	D3000	28	BLUE				203	NNB06LF	- 214
405		1044.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 215
406	4.95	1046.50	3.60	3.69	7.71	6.38	D3000	29	BLUE/DK BRN				204	NNB06LF	- 216
407		1049.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 217
408	5.00	1051.50	3.64	3.69	7.72	6.38	D3000	29	BLUE/DK BRN				205	NNB06LF	- 218
409		1054.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 219
410	5.00	1056.50	3.65	3.69	7.73	6.38	D3000	29	BLUE/DK BRN				206	NNB06LF	- 220
411		1059.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 221
412	5.00	1061.50	3.67	3.69	7.76	6.38	D3000	29	BLUE/DK BRN				207	NNB06LF	- 222
413		1064.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 223
414	5.00	1066.50	3.69	3.69	7.79	6.38	D3000	29	BLUE/DK BRN				208	NNB06LF	- 224
415		1069.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 225
416	5.00	1071.50	3.70	3.69	7.83	6.38	D3000	29	BLUE/DK BRN				209	NNB06LF	- 226
417		1074.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 227
418	5.00	1076.50	3.72	3.69	7.87	6.38	D3000	29	BLUE/DK BRN				210	NNB06LF	- 228
419		1079.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 229
420	5.00	1081.50	3.74	3.69	7.93	6.38	D3000	29	BLUE/DK BRN				211	NNB06LF	- 230
421		1084.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 231
422	5.00	1086.50	3.76	3.69	7.99	6.38	D3000	29	BLUE/DK BRN				212	NNB06LF	- 232
423		1089.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 233
424	5.00	1091.50	3.78	3.69	8.06	6.38	D3000	29	BLUE/DK BRN				213	NNB06LF	- 234
425		1094.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- 235
426	5.00	1096.50	3.80	3.69	8.14	6.38	D3000	29	BLUE/DK BRN				214	NNB06LF	- 236

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	4.20	4.17	7.63	6.32	D3000	31	DK	BRN/ORN							238	NNB06LF	
475		1219.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237
476	5.00	1221.61	4.22	4.17	7.66	6.32	D3000	31	DK	BRN/ORN							239	NNB06LF	
477		1224.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238
478	5.00	1226.61	4.24	4.17	7.70	6.32	D3000	31	DK	BRN/ORN							240	NNB06LF	
479		1229.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	239
480	5.00	1231.61	4.27	4.17	7.74	6.32	D3000	31	DK	BRN/ORN							241	NNB06LF	
481		1234.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240
482	5.00	1236.61	4.29	4.17	7.79	6.32	D3000	31	DK	BRN/ORN							242	NNB06LF	
483		1239.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241
484	5.00	1241.61	4.31	4.17	7.85	6.32	D3000	31	DK	BRN/ORN							243	NNB06LF	
485		1244.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242
486	5.00	1246.61	4.34	4.46	7.92	6.28	D3000	32	ORANGE								244	NNB06LF	
487		1249.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243
488	5.00	1251.61	4.35	4.46	8.00	6.28	D3000	32	ORANGE								245	NNB06LF	
489		1254.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244
490	5.00	1256.61	4.36	4.46	8.08	6.28	D3000	32	ORANGE								246	NNB06LF	
491		1259.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245
492	5.00	1261.61	4.37	4.46	8.17	6.28	D3000	32	ORANGE								247	NNB06LF	
493		1264.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246
494	5.00	1266.61	4.37	4.46	8.27	6.28	D3000	32	ORANGE								248	NNB06LF	
495		1269.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247
496	5.00	1271.61	4.38	4.46	8.38	6.28	D3000	32	ORANGE								249	NNB06LF	
497		1274.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248
498	5.00	1276.61	4.37	4.46	8.40	6.28	D3000	32	ORANGE								250	NNB06LF	
499		1279.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249
TOWER 8	159.85	1281.36																	
500	4.95	1281.56	4.37	4.46	8.40	6.28	D3000	32	ORANGE								251	NNB06LF	
501		1284.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
502	5.00	1286.56	4.39	4.46	8.40	6.28	D3000	32	ORANGE								252	NNB06LF	
503		1289.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	251
504	5.00	1291.56	4.39	4.46	8.40	6.28	D3000	32	ORANGE								253	NNB06LF	
505		1294.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	252
506	5.00	1296.56	5.74	5.90	8.40	6.13	D3000	37	PUR/BLK								254	NNB06LF	
507		1299.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253
PIPE ID CHANGES FROM 6.415 TO 2.060																			
508	8.08	1304.64	5.68	5.55	8.39	6.17	D3000	36	PURPLE								255	NNB06LF	
509	5.00	1309.64	5.62	5.55	8.39	6.17	D3000	36	PURPLE								256	NNB06LF	
OVERHANG	28.28	1309.64																	

TOTAL GPM = 600.04

GPA = 4.84

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI
WITH GRADUATED ELEVATION OF 2.00 FT THE INLET PRESSURE IS 11.59 PSI FOR SPRINKLER 254
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	9.04	12.63	6.77	0.015	0.54	0.72	0.90
2	5.56	26.94	26.55	4.77	0.011	0.38	0.51	0.63
3	9.26	44.85	44.19	4.77	0.011	0.38	0.51	0.63
4	12.96	62.75	62.16	4.80	0.011	0.38	0.51	0.64
5	16.66	80.66	80.16	4.81	0.011	0.38	0.51	0.64
6	20.35	98.56	97.42	4.79	0.011	0.38	0.51	0.63
7	24.05	116.47	115.21	4.79	0.011	0.38	0.51	0.64
8	27.70	134.14	133.38	4.81	0.011	0.38	0.51	0.64
OVERHANG	5.28	25.59	28.33	5.36	0.012	0.43	0.57	0.71
TOTAL	123.70	599.00	600.04	4.85				

SUMMARY OF SPRINKLERS

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

SUMMARY OF REGULATORS

26 NNB10LF
230 NNB06LF

13 D3000 25 RED/WHITE
12 D3000 26 WHITE
13 D3000 27 WHITE/BLUE
18 D3000 28 BLUE
12 D3000 29 BLUE/DK BRN
13 D3000 30 DK BROWN
15 D3000 31 DK BRN/ORN
10 D3000 32 ORANGE
2 D3000 36 PURPLE
1 D3000 37 PUR/BLK

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

PRECIPITATION CHART

WISH-76505

APRIL 01, 2014

DEALER - TEETER IRRIGATION

IRRIGATOR - BRENT WOODS
FIELD NO - SW 1/4 1-31-31TOTAL LENGTH PIPE = 1309.64
GPM UNDER PIPE = 600.04
ACRES UNDER PIPE = 123.70
RANGE OF ENDGUN = .00
GPM OF ENDGUN = .00
ACRES UNDER ENDGUN = .00SYSTEM PRESSURE = 14 PSI
TOTAL GPM = 600.04MOTOR 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
.15	100.00	14.29 - 857 min	100.00	.15	14.29 - 857 min
.20	76.56	18.66	90.00	.17	15.87
.25	61.25	23.32	80.00	.19	17.86
.30	51.04	27.99	70.00	.22	20.41
.40	38.28	37.32	60.00	.26	23.81
.50	30.62	46.65	50.00	.31	28.57
.60	25.52	55.98	45.00	.34	31.75
.70	21.87	65.31	40.00	.38	35.72
.75	20.42	69.97	35.00	.44	40.82
.80	19.14	74.64	30.00	.51	47.62
.90	17.01	83.97	25.00	.61	57.14
1.00	15.31	93.30	20.00	.77	71.43
1.25	12.25	116.62	15.00	1.02	95.24
1.50	10.21	139.95	10.00	1.53	142.86
1.75	8.75	163.27	5.00	3.06	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

APRIL 01, 2014
WISH-76505
BRENT WOODS
SW 1/4 1-31-31
600 @ 14 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	10	10LF	43		48	14	6LF	25		71	17	6LF	7		94	20	6LF
2	PLUG				49	PLUG				44	PLUG				26	PLUG				8	PLUG			
3		1	9	10LF	50		26	10	10LF	45		49	14	6LF	27		72	17	6LF	9		95	20	6LF
4		2	9	10LF	51	PLUG				46	PLUG				28	PLUG				10	PLUG			
5		3	9	10LF	TOWER 1					47		50	15	6LF	29		73	17	6LF	11		96	20	6LF
6		4	9	10LF	1		27	11	6LF	48	PLUG				30	PLUG				12	PLUG			
7	PLUG				2	PLUG				49		51	15	6LF	31		74	17	6LF	13		97	20	6LF
8		5	9	10LF	3		28	11	6LF	50	PLUG				32	PLUG				14	PLUG			
9	PLUG				4	PLUG				51		52	15	6LF	33		75	18	6LF	15		98	20	6LF
10		6	9	10LF	5		29	11	6LF	52	PLUG				34	PLUG				16	PLUG			
11	PLUG				6	PLUG				53		53	15	6LF	35		76	18	6LF	17		99	20	6LF
12		7	9	10LF	7		30	12	6LF	54	PLUG				36	PLUG				18	PLUG			
13	PLUG				8	PLUG				55		54	15	6LF	37		77	18	6LF	19		100	20	6LF
14		8	9	10LF	9		31	12	6LF	56	PLUG				38	PLUG				20	PLUG			
15	PLUG				10	PLUG				57		55	15	6LF	39		78	18	6LF	21		101	20	6LF
16		9	9	10LF	11		32	12	6LF	58	PLUG				40	PLUG				22	PLUG			
17	PLUG				12	PLUG				59		56	15	6LF	41		79	18	6LF	23		102	20	6LF
18		10	9	10LF	13		33	12	6LF	60	PLUG				42	PLUG				24	PLUG			
19	PLUG				14	PLUG				61		57	15	6LF	43		80	18	6LF	25		103	21	6LF
20		11	9	10LF	15		34	12	6LF	62	PLUG				44	PLUG				26	PLUG			
21	PLUG				16	PLUG				63		58	16	6LF	45		81	18	6LF	27		104	21	6LF
22		12	9	10LF	17		35	12	6LF	64	PLUG				46	PLUG				28	PLUG			
23	PLUG				18	PLUG				TOWER 2					47		82	18	6LF	29		105	21	6LF
24		13	9	10LF	19		36	13	6LF	1		59	16	6LF	48	PLUG				30	PLUG			
25	PLUG				20	PLUG				2	PLUG				49		83	18	6LF	31		106	21	6LF
26		14	9	10LF	21		37	13	6LF	3		60	16	6LF	50	PLUG				32	PLUG			
27	PLUG				22	PLUG				4	PLUG				51		84	19	6LF	33		107	21	6LF
28		15	9	10LF	23		38	13	6LF	5		61	16	6LF	52	PLUG				34	PLUG			
29	PLUG				24	PLUG				6	PLUG				53		85	19	6LF	35		108	21	6LF
30		16	9	10LF	25		39	13	6LF	7		62	16	6LF	54	PLUG				36	PLUG			
31	PLUG				26	PLUG				8	PLUG				55		86	19	6LF	37		109	21	6LF
32		17	9	10LF	27		40	13	6LF	9		63	16	6LF	56	PLUG				38	PLUG			
33	PLUG				28	PLUG				10	PLUG				57		87	19	6LF	39		110	21	6LF
34		18	9	10LF	29		41	13	6LF	11		64	16	6LF	58	PLUG				40	PLUG			
35	PLUG				30	PLUG				12	PLUG				59		88	19	6LF	41		111	21	6LF
36		19	9	10LF	31		42	13	6LF	13		65	16	6LF	60	PLUG				42	PLUG			
37	PLUG				32	PLUG				14	PLUG				61		89	19	6LF	43		112	21	6LF
38		20	9	10LF	33		43	14	6LF	15		66	17	6LF	62	PLUG				44	PLUG			
39	PLUG				34	PLUG				16	PLUG				63		90	19	6LF	45		113	22	6LF
40		21	9	10LF	35		44	14	6LF	17		67	17	6LF	64	PLUG				46	PLUG			
41	PLUG				36	PLUG				18	PLUG				TOWER 3					47		114	22	6LF
42		22	9	10LF	37		45	14	6LF	19		68	17	6LF	1		91	19	6LF	48	PLUG			
43	PLUG				38	PLUG				20	PLUG				2	PLUG				49		115	22	6LF
44		23	9	10LF	39		46	14	6LF	21		69	17	6LF	3		92	19	6LF	50	PLUG			
45	PLUG				40	PLUG				22	PLUG				4	PLUG				51		116	22	6LF
46		24	9	10LF	41		47	14	6LF	23		70	17	6LF	5		93	19	6LF	52	PLUG			
47	PLUG				42	PLUG				24	PLUG				6	PLUG				53		117	22	6LF

TEETER IRRIGATION
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600 @ 14 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	29	6LF
55		118	22	6LF	37		141	24	6LF	19		164	26	6LF	1		187	28	6LF	48	PLUG			
56	PLUG				38	PLUG				20	PLUG				2	PLUG				49		211	29	6LF
57		119	22	6LF	39		142	24	6LF	21		165	26	6LF	3		188	28	6LF	50	PLUG			
58	PLUG				40	PLUG				22	PLUG				4	PLUG				51		212	29	6LF
59		120	22	6LF	41		143	24	6LF	23		166	26	6LF	5		189	28	6LF	52	PLUG			
60	PLUG				42	PLUG				24	PLUG				6	PLUG				53		213	29	6LF
61		121	22	6LF	43		144	24	6LF	25		167	26	6LF	7		190	28	6LF	54	PLUG			
62	PLUG				44	PLUG				26	PLUG				8	PLUG				55		214	29	6LF
63		122	23	6LF	45		145	24	6LF	27		168	26	6LF	9		191	28	6LF	56	PLUG			
64	PLUG				46	PLUG				28	PLUG				10	PLUG				57		215	29	6LF
TOWER 4					47		146	24	6LF	29		169	26	6LF	11		192	28	6LF	58	PLUG			
1		123	23	6LF	48	PLUG				30	PLUG				12	PLUG				59		216	30	6LF
2	PLUG				49		147	24	6LF	31		170	26	6LF	13		193	28	6LF	60	PLUG			
3		124	23	6LF	50	PLUG				32	PLUG				14	PLUG				61		217	30	6LF
4	PLUG				51		148	25	6LF	33		171	26	6LF	15		194	28	6LF	62	PLUG			
5		125	23	6LF	52	PLUG				34	PLUG				16	PLUG				63		218	30	6LF
6	PLUG				53		149	25	6LF	35		172	26	6LF	17		195	28	6LF	64	PLUG			
7		126	23	6LF	54	PLUG				36	PLUG				18	PLUG				TOWER 7				
8	PLUG				55		150	25	6LF	37		173	27	6LF	19		196	28	6LF	1		219	30	6LF
9		127	23	6LF	56	PLUG				38	PLUG				20	PLUG				2	PLUG			
10	PLUG				57		151	25	6LF	39		174	27	6LF	21		197	28	6LF	3		220	30	6LF
11		128	23	6LF	58	PLUG				40	PLUG				22	PLUG				4	PLUG			
12	PLUG				59		152	25	6LF	41		175	27	6LF	23		198	28	6LF	5		221	30	6LF
13		129	23	6LF	60	PLUG				42	PLUG				24	PLUG				6	PLUG			
14	PLUG				61		153	25	6LF	43		176	27	6LF	25		199	28	6LF	7		222	30	6LF
15		130	23	6LF	62	PLUG				44	PLUG				26	PLUG				8	PLUG			
16	PLUG				63		154	25	6LF	45		177	27	6LF	27		200	28	6LF	9		223	30	6LF
17		131	23	6LF	64	PLUG				46	PLUG				28	PLUG				10	PLUG			
18	PLUG				TOWER 5					47		178	27	6LF	29		201	28	6LF	11		224	30	6LF
19		132	23	6LF	1		155	25	6LF	48	PLUG				30	PLUG				12	PLUG			
20	PLUG				2	PLUG				49		179	27	6LF	31		202	28	6LF	13		225	30	6LF
21		133	23	6LF	3		156	25	6LF	50	PLUG				32	PLUG				14	PLUG			
22	PLUG				4	PLUG				51		180	27	6LF	33		203	28	6LF	15		226	30	6LF
23		134	23	6LF	5		157	25	6LF	52	PLUG				34	PLUG				16	PLUG			
24	PLUG				6	PLUG				53		181	27	6LF	35		204	29	6LF	17		227	30	6LF
25		135	23	6LF	7		158	25	6LF	54	PLUG				36	PLUG				18	PLUG			
26	PLUG				8	PLUG				55		182	27	6LF	37		205	29	6LF	19		228	30	6LF
27		136	24	6LF	9		159	25	6LF	56	PLUG				38	PLUG				20	PLUG			
28	PLUG				10	PLUG				57		183	27	6LF	39		206	29	6LF	21		229	31	6LF
29		137	24	6LF	11		160	25	6LF	58	PLUG				40	PLUG				22	PLUG			
30	PLUG				12	PLUG				59		184	27	6LF	41		207	29	6LF	23		230	31	6LF
31		138	24	6LF	13		161	26	6LF	60	PLUG				42	PLUG				24	PLUG			
32	PLUG				14	PLUG				61		185	27	6LF	43		208	29	6LF	25		231	31	6LF
33		139	24	6LF	15		162	26	6LF	62	PLUG				44	PLUG				26	PLUG			
34	PLUG				16	PLUG				63		186	28	6LF	45		209	29	6LF	27		232	31	6LF
35		140	24	6LF	17		163	26	6LF	64	PLUG				46	PLUG				28	PLUG			

TEETER IRRIGATION
1310 ONTARIO STREET
PLAINS, KANSAS 67869

APRIL 01, 2014
WISH-76505
BRENT WOODS
SW 1/4 1-31-31
600 @ 14 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

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