

MCCOOK IRRIGATION LLC

SEPTEMBER 18, 2025

WISH-119601

CUSTOMER : SHIRLEY MCCONNELL

VALLEY 8000 - 30
3 TOWER - 600.92 FT
SYSTEM 400 GPM @ 17 PSI
SENNINGER UP3 XI-WOBS
SENNINGER 10 PSI REGULATORS
NELSON SR-100 .75 TB
ELEVATION 0 FT UP, 0 FT DOWN

LEGAL : NW 1/4 10-2N33W
P.O. NO. : 3249

902 EAST B STREET
MCCOOK, NEBRASKA 69001
(308)777-2130

WARRANTY

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

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

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

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

VALLEY 8000 - 30

SEPTEMBER 18, 2025

WISH-119601

DEALER

MCCOOK IRRIGATION LLC
902 EAST B STREET
MCCOOK, NEBRASKA 69001

IRRIGATOR

SHIRLEY MCCONNELL
NW 1/4 10-2N33W
3249

TOTAL TARGET GPM	400.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	600.92	1	185.70	6.415
ENDGUN TARGET GPM	104.00	NUMBER OF TOWERS	3	1	184.96	6.415
NUMBER OF OUTLETS	228	NUMBER OF SPRINKLERS	58	1	184.70	6.415

SENNINGER UP3 XI-WOBS - 610 BLUE PADS
SENNINGER PSR-2 10 PSI SERIES REGULATORS
POLYDROPS® AVERAGE 7.5 FT
ELEVATION IS 0 FT UP AND 0 FT DOWN

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.	DROP LENGTH
96		270.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	72
97		273.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	73
98	10.00	275.66	4.52	4.66	14.99	11.13	XI-WOB UP3 14 BLUE	25	SPSR2-10		102
99		278.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	74
100		280.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	75
101		283.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	76
102	10.00	285.66	4.68	4.66	14.97	11.13	XI-WOB UP3 14 BLUE	26	SPSR2-10		102
103		288.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	77
104		290.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	78
105		293.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	79
106	10.00	295.66	4.84	4.99	14.99	11.10	XI-WOB UP3 14.5 BLUE	27	SPSR2-10		96
107		298.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	80
108		300.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	81
109		303.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	82
110	10.00	305.66	5.00	4.99	15.03	11.10	XI-WOB UP3 14.5 BLUE	28	SPSR2-10		96
111		308.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	83
112		310.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	84
113		313.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	85
114	10.00	315.66	5.16	4.99	15.11	11.10	XI-WOB UP3 14.5 BLUE	29	SPSR2-10		96
115		318.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	86
116		320.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	87
117		323.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	88
118	10.00	325.66	5.33	5.34	15.23	11.04	XI-WOB UP3 15 DK BROWN	30	SPSR2-10		90
119		328.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	89
120		330.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	90
121		333.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	91
122	10.00	335.66	5.50	5.34	15.37	11.04	XI-WOB UP3 15 DK BROWN	31	SPSR2-10		84
123		338.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	92
124		340.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	93
125		343.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	94
126	10.00	345.66	5.66	5.68	15.54	10.98	XI-WOB UP3 15.5 DK BROWN	32	SPSR2-10		78
127		348.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	95
128		350.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	96
129		353.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	97
130	10.00	355.66	5.83	5.68	15.75	10.98	XI-WOB UP3 15.5 DK BROWN	33	SPSR2-10		72
131		358.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	98
132		360.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	99
133		363.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	100
134	10.00	365.66	6.06	6.04	15.85	10.91	XI-WOB UP3 16 ORANGE	34	SPSR2-10		66
135		368.16	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	101
TOWER 2	184.96	370.66	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	102
136		370.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	103
137		373.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	104
138	10.20	375.86	6.22	6.40	15.83	10.85	XI-WOB UP3 16.5 ORANGE	35	SPSR2-10		66
139		378.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	105
140		380.86	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	106
141		383.36	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	107
142	10.00	385.86	6.32	6.40	15.64	10.85	XI-WOB UP3 16.5 ORANGE	36	SPSR2-10		72

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.	DROP LENGTH
143		388.36	-	-	-	-	-	-	-	-	107
144		390.86	-	-	-	-	-	-	-	-	108
145		393.36	-	-	-	-	-	-	-	-	109
146	10.00	395.86	6.48	6.41	15.40	10.85	XI-WOB UP3 16.5 ORANGE	37	SPSR2-10	-	78
147		398.36	-	-	-	-	-	-	-	-	110
148		400.86	-	-	-	-	-	-	-	-	111
149		403.36	-	-	-	-	-	-	-	-	112
150	10.00	405.86	6.57	6.41	15.19	10.85	XI-WOB UP3 16.5 ORANGE	38	SPSR2-10	-	84
151		408.36	-	-	-	-	-	-	-	-	113
152		410.86	-	-	-	-	-	-	-	-	114
153		413.24	-	-	-	-	-	-	-	-	115
154	9.76	415.62	6.73	6.78	15.02	10.78	XI-WOB UP3 17 DK GREEN	39	SPSR2-10	-	90
155		418.12	-	-	-	-	-	-	-	-	116
156		420.62	-	-	-	-	-	-	-	-	117
157		423.12	-	-	-	-	-	-	-	-	118
158	10.00	425.62	6.98	7.16	14.87	10.71	XI-WOB UP3 17.5 DK GREEN	40	SPSR2-10	-	96
159		428.12	-	-	-	-	-	-	-	-	119
160		430.62	-	-	-	-	-	-	-	-	120
161		433.12	-	-	-	-	-	-	-	-	121
162	10.00	435.62	7.13	7.16	14.76	10.71	XI-WOB UP3 17.5 DK GREEN	41	SPSR2-10	-	96
163		438.12	-	-	-	-	-	-	-	-	122
164		440.62	-	-	-	-	-	-	-	-	123
165		443.12	-	-	-	-	-	-	-	-	124
166	10.00	445.62	7.29	7.16	14.67	10.71	XI-WOB UP3 17.5 DK GREEN	42	SPSR2-10	-	96
167		448.12	-	-	-	-	-	-	-	-	125
168		450.62	-	-	-	-	-	-	-	-	126
169		453.12	-	-	-	-	-	-	-	-	127
170	10.00	455.62	7.47	7.55	14.62	10.64	XI-WOB UP3 18 PURPLE	43	SPSR2-10	-	102
171		458.12	-	-	-	-	-	-	-	-	128
172		460.62	-	-	-	-	-	-	-	-	129
173		463.12	-	-	-	-	-	-	-	-	130
174	10.00	465.62	7.62	7.55	14.61	10.64	XI-WOB UP3 18 PURPLE	44	SPSR2-10	-	102
175		468.12	-	-	-	-	-	-	-	-	131
176		470.62	-	-	-	-	-	-	-	-	132
177		473.12	-	-	-	-	-	-	-	-	133
178	10.00	475.62	7.79	7.95	14.62	10.57	XI-WOB UP3 18.5 PURPLE	45	SPSR2-10	-	102
179		478.12	-	-	-	-	-	-	-	-	134
180		480.62	-	-	-	-	-	-	-	-	135
181		483.12	-	-	-	-	-	-	-	-	136
182	10.00	485.62	7.94	7.95	14.67	10.57	XI-WOB UP3 18.5 PURPLE	46	SPSR2-10	-	96
183		488.12	-	-	-	-	-	-	-	-	137
184		490.62	-	-	-	-	-	-	-	-	138
185		493.12	-	-	-	-	-	-	-	-	139
186	10.00	495.62	8.11	7.95	14.75	10.57	XI-WOB UP3 18.5 PURPLE	47	SPSR2-10	-	96
187		498.12	-	-	-	-	-	-	-	-	140
188		500.62	-	-	-	-	-	-	-	-	141
189		503.12	-	-	-	-	-	-	-	-	142
190	10.00	505.62	8.29	8.35	14.86	10.50	XI-WOB UP3 19 BLACK	48	SPSR2-10	-	90

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.	DROP LENGTH
191		508.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	143
192		510.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	144
193		513.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	145
194	10.00	515.62	8.44	8.35	15.00	10.50	XI-WOB UP3 19 BLACK	49	SPSR2-10		90
195		518.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	146
196		520.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	147
197		523.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	148
198	10.00	525.62	8.62	8.76	15.18	10.42	XI-WOB UP3 19.5 BLACK	50	SPSR2-10		84
199		528.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	149
200		530.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	150
201		533.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	151
202	10.00	535.62	8.76	8.76	15.39	10.42	XI-WOB UP3 19.5 BLACK	51	SPSR2-10		78
203		538.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	152
204		540.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	153
205		543.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	154
206	10.00	545.62	8.96	8.76	15.61	10.43	XI-WOB UP3 19.5 BLACK	52	SPSR2-10		72
207		548.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	155
208		550.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	156
209		553.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	157
TOWER 3	184.70	555.36									
210	10.08	555.70	8.97	9.17	15.61	10.35	XI-WOB UP3 20 DK TURQUOISE	53	SPSR2-10		66
211		557.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	158
212		560.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	159
213		562.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	160
214	9.57	565.27	9.04	9.17	15.61	10.35	XI-WOB UP3 20 DK TURQUOISE	54	SPSR2-10		66
215		567.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	161
216		570.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	162
217		572.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	163
218	10.00	575.27	9.36	9.18	15.61	10.35	XI-WOB UP3 20 DK TURQUOISE	55	SPSR2-10		66
219		577.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	164
220		580.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	165
221		582.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	166
			PIPE ID CHANGES FROM 6.415 TO 3.790								
222	10.00	585.27	9.61	9.60	15.61	10.27	XI-WOB UP3 20.5 DK TURQ	56	SPSR2-10		66
223		587.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	167
224		590.27	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	168
225		592.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	169
226	10.00	595.27	7.33	7.16	15.61	10.71	XI-WOB UP3 17.5 DK GREEN	57	SPSR2-10		66
227		597.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	170
228	5.00	600.27	3.36	3.44	15.61	11.26	XI-WOB UP3 12 RED	58	SPSR2-10		66
OVERHANG	45.56	600.92					104.36 ENDGUN (1) NELSON SR-100 .75 TB				
							2HP BOOSTER PUMP				

BOOSTER PUMP AT TOWER ADDS 27.51 PSI TO PIPE PRESSURE FOR A PRESSURE OF 41.75 PSI
 FRICTION LOSS THROUGH ENDGUN VALVE IS 0.67 PSI - ENDGUN PRESSURE IS 41.08 PSI

TOTAL GPM = 400.53

GPA = 11.37

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI
 WITH GRADUATED ELEVATION OF .00 FT THE INLET PRESSURE IS 17.24 PSI FOR SPRINKLER 56
 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	2.49	28.27	28.72	2%	11.55	0.026	0.92	1.22	1.53
2	7.42	84.35	83.94	0%	11.31	0.025	0.90	1.20	1.50
3	12.34	140.20	140.06	0%	11.35	0.025	0.90	1.20	1.51
OVERHANG	3.80	43.18	43.44	1%	11.43	0.025	0.91	1.21	1.52
ENDGUN	8.23	104.00	104.36	12%	12.67				
TOTAL	34.28	400.00	400.53		11.68				

SUMMARY OF SPRINKLERS

5	XI-WOB UP3 7 LIME	9	66 IN DROP
1	XI-WOB UP3 7.5 LIME	5	72 IN DROP
1	XI-WOB UP3 8 LAVENDER	5	78 IN DROP
1	XI-WOB UP3 8.5 LAVENDER	6	84 IN DROP
1	XI-WOB UP3 9 GREY	9	90 IN DROP
2	XI-WOB UP3 9.5 GREY	15	96 IN DROP
1	XI-WOB UP3 10 TURQUOISE	9	102 IN DROP
2	XI-WOB UP3 10.5 TURQUOISE		
1	XI-WOB UP3 11 YELLOW		
2	XI-WOB UP3 11.5 YELLOW		
3	XI-WOB UP3 12 RED		
2	XI-WOB UP3 12.5 RED		
2	XI-WOB UP3 13 WHITE		
1	XI-WOB UP3 13.5 WHITE		
2	XI-WOB UP3 14 BLUE		
3	XI-WOB UP3 14.5 BLUE		
2	XI-WOB UP3 15 DK BROWN		
2	XI-WOB UP3 15.5 DK BROWN		
1	XI-WOB UP3 16 ORANGE		
4	XI-WOB UP3 16.5 ORANGE		
1	XI-WOB UP3 17 DK GREEN		
4	XI-WOB UP3 17.5 DK GREEN		
2	XI-WOB UP3 18 PURPLE		
3	XI-WOB UP3 18.5 PURPLE		
2	XI-WOB UP3 19 BLACK		
3	XI-WOB UP3 19.5 BLACK		
3	XI-WOB UP3 20 DK TURQUOISE		
1	XI-WOB UP3 20.5 DK TURQ		

170 PLUGS**TOTAL OF 58 DROPS****SUMMARY OF REGULATORS**

58	Senn PSR2 10 psi
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TOTAL OF 58 REGULATORS

NOZZLE POSITION CHART

XI-WOB UP3 7 LIME	1, 2, 3, 4, 5
XI-WOB UP3 7.5 LIME	6
XI-WOB UP3 8 LAVENDER	7
XI-WOB UP3 8.5 LAVENDER	8
XI-WOB UP3 9 GREY	9
XI-WOB UP3 9.5 GREY	10, 11
XI-WOB UP3 10 TURQUOISE	12
XI-WOB UP3 10.5 TURQUOISE	13, 14
XI-WOB UP3 11 YELLOW	15
XI-WOB UP3 11.5 YELLOW	16, 17
XI-WOB UP3 12 RED	18, 19, 58
XI-WOB UP3 12.5 RED	20, 21
XI-WOB UP3 13 WHITE	22, 23
XI-WOB UP3 13.5 WHITE	24
XI-WOB UP3 14 BLUE	25, 26
XI-WOB UP3 14.5 BLUE	27, 28, 29
XI-WOB UP3 15 DK BROWN	30, 31
XI-WOB UP3 15.5 DK BROWN	32, 33
XI-WOB UP3 16 ORANGE	34
XI-WOB UP3 16.5 ORANGE	35, 36, 37, 38
XI-WOB UP3 17 DK GREEN	39
XI-WOB UP3 17.5 DK GREEN	40, 41, 42, 57
XI-WOB UP3 18 PURPLE	43, 44
XI-WOB UP3 18.5 PURPLE	45, 46, 47
XI-WOB UP3 19 BLACK	48, 49
XI-WOB UP3 19.5 BLACK	50, 51, 52
XI-WOB UP3 20 DK TURQUOISE	53, 54, 55
XI-WOB UP3 20.5 DK TURQ	56

MCCOOK IRRIGATION LLC

902 EAST B STREET

MCCOOK, NEBRASKA 69001

SEPTEMBER 18, 2025

WISH-119601

SHIRLEY MCCONNELL

NW 1/4 10-2N33W

400 GPM @ 17 PSI

Rotation time at 100% = 8.16 Hours Or 489 minutes

VALLEY 8000 - 30
SENNINGER UP3 XI-WOBS
SENNINGER 10 PSI REGULATORS
POLYDROPS®
NELSON SR-100 .75 TB

Installation Chart

Page 1

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119601

SEPTEMBER 18, 2025

DEALER - MCCOOK IRRIGATION LLC

IRRIGATOR - SHIRLEY MCCONNELL
FIELD - NW 1/4 10-2N33W

TOTAL LENGTH PIPE = 600.92 SYSTEM PRESSURE = 17 PSI
 GPM UNDER PIPE = 296.17 TOTAL GPM = 400.53
 ACRES UNDER PIPE = 26.04
 RANGE OF ENDGUN = 88.48
 GPM OF ENDGUN = 104.36
 ACRES UNDER ENDGUN = 8.23
 WATERING LENGTH = 689.40

MOTOR SIZE (HP) = .6
 LOADED MOTOR RPM = 1800
 CENTER GEAR BOX RATIO = 53
 WHEEL GEAR BOX RATIO = 52
 TIRE SIZE = 11 X 24.5
 LAST TOWER SPEED (FPM) = 7.13

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.20	100.00	8.16 - 489(min)	100.00	.20	8.16 - 489(min)
.25	81.98	9.95	90.00	.23	9.06
.30	68.32	11.94	80.00	.26	10.20
.40	51.24	15.92	70.00	.29	11.65
.50	40.99	19.90	60.00	.34	13.59
.60	34.16	23.88	50.00	.41	16.31
.70	29.28	27.86	45.00	.46	18.13
.75	27.33	29.85	40.00	.51	20.39
.80	25.62	31.84	35.00	.59	23.30
.90	22.77	35.82	30.00	.68	27.19
1.00	20.50	39.80	25.00	.82	32.63
1.25	16.40	49.75	20.00	1.02	40.78
1.50	13.66	59.70	15.00	1.37	54.38
1.75	11.71	69.64	10.00	2.05	81.57
2.00	10.25	79.59	5.00	4.10	163.13

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.

DEALER - MCCOOK IRRIGATION LLC
P.O. - 3249

IRRIGATOR - SHIRLEY MCCONNELL
FIELD - NW 1/4 10-2N33W

SPAN 1 <u>POS/LEN</u>	SPAN 2 <u>POS/LEN</u>	SPAN 3 <u>POS/LEN</u>	ENDBOOM <u>POS/LEN</u>
1 - 84	16 - 66	35 - 66	53 - 66
2 - 90	17 - 72	36 - 72	54 - 66
3 - 96	18 - 78	37 - 78	55 - 66
4 - 96	19 - 84	38 - 84	56 - 66
5 - 96	20 - 90	39 - 90	57 - 66
6 - 102	21 - 90	40 - 96	58 - 66
7 - 102	22 - 96	41 - 96	
8 - 102	23 - 96	42 - 96	
9 - 96	24 - 102	43 - 102	
10 - 96	25 - 102	44 - 102	
11 - 90	26 - 102	45 - 102	
12 - 90	27 - 96	46 - 96	
13 - 84	28 - 96	47 - 96	
14 - 78	29 - 96	48 - 90	
15 - 72	30 - 90	49 - 90	
	31 - 84	50 - 84	
	32 - 78	51 - 78	
	33 - 72	52 - 72	
	34 - 66		

SUMMARY OF DROPS

9 - 66 IN DROP
5 - 72 IN DROP
5 - 78 IN DROP
6 - 84 IN DROP
9 - 90 IN DROP
15 - 96 IN DROP
9 - 102 IN DROP

TOTAL OF 58 DROPS
POLY STEEL MALE X PLASTIC MALE