

DEINES IRRIGATION INC.

SEPTEMBER 30, 2025

WISH-119636

CUSTOMER : H & T RANCH

REINKE ELECTROGATOR 65

7 TOWER - 1300.75 FT

SYSTEM 950 GPM @ 51 PSI

NELSON R3000 ROTATORS

NELSON 20 & 15 PSI REGULATORS

NO ENDGUN

ELEVATION 20 FT UP, 0 FT DOWN

P.O. NO. : 12395

1101 MAIN STREET

TORRINGTON, WYOMING 82240

(307)532-1173

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.

REINKE ELECTROGATOR 65

SEPTEMBER 30, 2025

WISH-119636

DEALER

DEINES IRRIGATION INC.
1101 MAIN STREET
TORRINGTON, WYOMING 82240

IRRIGATOR

H & T RANCH

12395

TOTAL TARGET GPM	950.00	FRICTION FACTOR USED	135	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	51.00	TOTAL LENGTH	1300.75	1	195.25	6.415
NO ENDGUN		NUMBER OF TOWERS	7	2	194.00	6.415
NUMBER OF OUTLETS	268	NUMBER OF SPRINKLERS	132	3	175.00	6.415
NELSON R3000 ROTATORS - D8 ORANGE PLATES				1	179.00	6.415
NELSON BLUE TOP 20 & 15 PSI INTEGRAL SERIES REGULATORS				OH	13.50	2.79
POLYDROPS® AVERAGE 7 FT						
ELEVATION IS 20 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
48	9.50	234.87	2.46	2.58	45.97	21.68	R3000 18 GRAY	22	NNB20LF		84
49		239.62	-	-	-	-	-	-	-		27
50	9.50	244.37	2.56	2.58	45.68	21.68	R3000 18 GRAY	23	NNB20LF		90
51		249.12	-	-	-	-	-	-	-		28
52	9.50	253.87	2.66	2.58	45.40	21.68	R3000 18 GRAY	24	NNB20LF		90
53		258.62	-	-	-	-	-	-	-		29
54	9.50	263.37	2.76	2.89	45.15	21.52	R3000 19 GRAY/TURQ	25	NNB20LF		96
55		268.12	-	-	-	-	-	-	-		30
56	9.50	272.87	2.86	2.89	44.93	21.52	R3000 19 GRAY/TURQ	26	NNB20LF		96
57		277.62	-	-	-	-	-	-	-		31
58	9.50	282.37	2.96	2.89	44.73	21.52	R3000 19 GRAY/TURQ	27	NNB20LF		96
59		287.12	-	-	-	-	-	-	-		32
60	9.50	291.87	3.06	3.20	44.55	21.37	R3000 20 TURQUOISE	28	NNB20LF		96
61		296.62	-	-	-	-	-	-	-		33
62	9.50	301.37	3.16	3.20	44.40	21.37	R3000 20 TURQUOISE	29	NNB20LF		96
63		306.12	-	-	-	-	-	-	-		34
64	9.50	310.87	3.25	3.20	44.27	21.37	R3000 20 TURQUOISE	30	NNB20LF		96
65		315.62	-	-	-	-	-	-	-		35
66	9.50	320.37	3.35	3.46	44.16	21.24	R3000 21 TURQ/YEL	31	NNB20LF		96
67		325.12	-	-	-	-	-	-	-		36
68	9.50	329.87	3.45	3.46	44.08	21.24	R3000 21 TURQ/YEL	32	NNB20LF		90
69		334.62	-	-	-	-	-	-	-		37
70	9.50	339.37	3.55	3.46	44.03	21.24	R3000 21 TURQ/YEL	33	NNB20LF		90
71		344.12	-	-	-	-	-	-	-		38
72	9.50	348.87	3.65	3.83	43.99	21.06	R3000 22 YELLOW	34	NNB20LF		84
73		353.62	-	-	-	-	-	-	-		39
74	9.50	358.37	3.75	3.83	43.99	21.06	R3000 22 YELLOW	35	NNB20LF		78
75		363.12	-	-	-	-	-	-	-		40
76	9.50	367.87	3.85	3.83	44.00	21.06	R3000 22 YELLOW	36	NNB20LF		78
77		372.62	-	-	-	-	-	-	-		41
78	9.50	377.37	3.95	3.83	44.05	21.06	R3000 22 YELLOW	37	NNB20LF		72
79		382.12	-	-	-	-	-	-	-		42
80	9.50	386.87	4.92	4.92	43.92	20.81	R3000 25 RED/WHITE	38	NNB20LF		66
TOWER 2	194.00	389.25									
81		395.62	-	-	-	-	-	-	-		43
82	13.50	400.37	5.06	4.92	43.65	20.81	R3000 25 RED/WHITE	39	NNB20LF		72
83		405.12	-	-	-	-	-	-	-		44
84	9.50	409.87	4.29	4.25	43.30	15.58	R3000 25 RED/WHITE	40	NNB15LF		78
85		414.62	-	-	-	-	-	-	-		45
86	9.50	419.37	4.39	4.25	42.98	15.58	R3000 25 RED/WHITE	41	NNB15LF		78
87		424.12	-	-	-	-	-	-	-		46
88	9.50	428.87	4.49	4.61	42.68	15.54	R3000 26 WHITE	42	NNB15LF		84
89		433.62	-	-	-	-	-	-	-		47
90	9.50	438.37	4.59	4.61	42.41	15.54	R3000 26 WHITE	43	NNB15LF		90
91		443.12	-	-	-	-	-	-	-		48
92	9.50	447.87	4.69	4.61	42.16	15.54	R3000 26 WHITE	44	NNB15LF		90
93		452.62	-	-	-	-	-	-	-		49
94	9.50	457.37	4.79	4.94	41.94	15.51	R3000 27 WHITE/BLUE	45	NNB15LF		96

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
142	9.50	689.37	7.22	7.41	39.05	15.26	R3000 33 ORN/DK GRN	69	NNB15LF		90
143		694.12	-	-	-	-	-	-	-	74	
144	9.50	698.87	7.32	7.41	39.01	15.26	R3000 33 ORN/DK GRN	70	NNB15LF		90
145		703.62	-	-	-	-	-	-	-	75	
146	9.50	708.37	7.42	7.41	38.99	15.26	R3000 33 ORN/DK GRN	71	NNB15LF		84
147		713.12	-	-	-	-	-	-	-	76	
148	9.50	717.87	7.51	7.41	39.01	15.26	R3000 33 ORN/DK GRN	72	NNB15LF		84
149		722.62	-	-	-	-	-	-	-	77	
150	9.50	727.37	7.62	7.41	39.04	15.26	R3000 33 ORN/DK GRN	73	NNB15LF		78
151		732.12	-	-	-	-	-	-	-	78	
152	9.50	736.87	7.72	7.87	39.11	15.21	R3000 34 DK GREEN	74	NNB15LF		72
153		741.62	-	-	-	-	-	-	-	79	
154	9.50	746.37	7.82	7.87	39.20	15.21	R3000 34 DK GREEN	75	NNB15LF		66
155		751.12	-	-	-	-	-	-	-	80	
156	9.50	755.87	9.59	9.81	39.17	15.13	R3000 38 BLACK	76	NNB15LF		66
TOWER 4	175.00	758.25									
157		764.62	-	-	-	-	-	-	-	81	
158	13.50	769.37	9.74	9.81	39.05	15.13	R3000 38 BLACK	77	NNB15LF		66
159		774.12	-	-	-	-	-	-	-	82	
160	9.50	778.87	8.15	8.28	38.79	15.19	R3000 35 DK GRN/PUR	78	NNB15LF		72
161		783.62	-	-	-	-	-	-	-	83	
162	9.50	788.37	8.25	8.28	38.54	15.19	R3000 35 DK GRN/PUR	79	NNB15LF		78
163		793.12	-	-	-	-	-	-	-	84	
164	9.50	797.87	8.35	8.28	38.33	15.19	R3000 35 DK GRN/PUR	80	NNB15LF		78
165		802.62	-	-	-	-	-	-	-	85	
166	9.50	807.37	8.45	8.28	38.14	15.19	R3000 35 DK GRN/PUR	81	NNB15LF		84
167		812.12	-	-	-	-	-	-	-	86	
168	9.50	816.87	8.55	8.70	37.97	15.17	R3000 36 PURPLE	82	NNB15LF		84
169		821.62	-	-	-	-	-	-	-	87	
170	9.50	826.37	8.65	8.70	37.83	15.17	R3000 36 PURPLE	83	NNB15LF		90
171		831.12	-	-	-	-	-	-	-	88	
172	9.50	835.87	8.75	8.70	37.72	15.17	R3000 36 PURPLE	84	NNB15LF		90
173		840.62	-	-	-	-	-	-	-	89	
174	9.50	845.37	8.85	8.70	37.64	15.18	R3000 36 PURPLE	85	NNB15LF		90
175		850.12	-	-	-	-	-	-	-	90	
176	9.50	854.87	8.95	8.70	37.58	15.18	R3000 36 PURPLE	86	NNB15LF		90
177		859.62	-	-	-	-	-	-	-	91	
178	9.50	864.37	9.05	9.29	37.55	15.15	R3000 37 PUR/BLK	87	NNB15LF		90
179		869.12	-	-	-	-	-	-	-	92	
180	9.50	873.87	9.15	9.29	37.55	15.15	R3000 37 PUR/BLK	88	NNB15LF		90
181		878.62	-	-	-	-	-	-	-	93	
182	9.50	883.37	9.24	9.29	37.57	15.16	R3000 37 PUR/BLK	89	NNB15LF		84
183		888.12	-	-	-	-	-	-	-	94	
184	9.50	892.87	9.34	9.29	37.62	15.16	R3000 37 PUR/BLK	90	NNB15LF		84
185		897.62	-	-	-	-	-	-	-	95	
186	9.50	902.37	9.44	9.29	37.70	15.16	R3000 37 PUR/BLK	91	NNB15LF		78
187		907.12	-	-	-	-	-	-	-	96	
188	9.50	911.87	9.54	9.29	37.80	15.16	R3000 37 PUR/BLK	92	NNB15LF		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
189		916.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	97	
190	9.50	921.37	9.65	9.81	37.93	15.14	R3000 38 BLACK	93	NNB15LF	66	
191		926.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	98	
192	9.50	930.87	11.81	12.03	37.93	15.06	R3000 42 MUSTARD	94	NNB15LF	66	
TOWER 5	175.00	933.25									
193		939.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	99	
194	13.50	944.37	11.95	12.03	37.86	15.06	R3000 42 MUSTARD	95	NNB15LF	66	
195		949.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	100	
196	9.50	953.87	9.98	9.81	37.64	15.14	R3000 38 BLACK	96	NNB15LF	72	
197		958.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	101	
198	9.50	963.37	10.08	9.81	37.43	15.14	R3000 38 BLACK	97	NNB15LF	78	
199		968.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	102	
200	9.50	972.87	10.19	10.35	37.25	15.12	R3000 39 BLK/DTURQ	98	NNB15LF	78	
201		977.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	103	
202	9.50	982.37	10.28	10.35	37.09	15.12	R3000 39 BLK/DTURQ	99	NNB15LF	84	
203		987.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	104	
204	9.50	991.87	10.38	10.35	36.97	15.12	R3000 39 BLK/DTURQ	100	NNB15LF	84	
205		996.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	105	
206	9.50	1001.37	10.48	10.35	36.86	15.12	R3000 39 BLK/DTURQ	101	NNB15LF	90	
207		1006.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	106	
208	9.50	1010.87	10.58	10.35	36.79	15.12	R3000 39 BLK/DTURQ	102	NNB15LF	90	
209		1015.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	107	
210	9.50	1020.37	10.69	10.88	36.74	15.10	R3000 40 DK TURQ	103	NNB15LF	90	
211		1025.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	108	
212	9.50	1029.87	10.78	10.88	36.72	15.10	R3000 40 DK TURQ	104	NNB15LF	90	
213		1034.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	109	
214	9.50	1039.37	10.88	10.88	36.72	15.10	R3000 40 DK TURQ	105	NNB15LF	90	
215		1044.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	110	
216	9.50	1048.87	10.98	10.88	36.75	15.10	R3000 40 DK TURQ	106	NNB15LF	90	
217		1053.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	111	
218	9.50	1058.37	11.08	10.88	36.81	15.10	R3000 40 DK TURQ	107	NNB15LF	84	
219		1063.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	112	
220	9.50	1067.87	11.19	10.88	36.89	15.10	R3000 40 DK TURQ	108	NNB15LF	84	
221		1072.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	113	
222	9.50	1077.37	11.30	11.51	37.00	15.08	R3000 41 DTURQ/MUS	109	NNB15LF	78	
223		1082.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	114	
224	9.50	1086.87	11.39	11.51	37.14	15.08	R3000 41 DTURQ/MUS	110	NNB15LF	72	
225		1091.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	115	
226	9.50	1096.37	11.49	11.51	37.30	15.08	R3000 41 DTURQ/MUS	111	NNB15LF	66	
227		1101.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	116	
228	9.50	1105.87	14.04	14.19	37.33	14.54	R3000 46 CREAM	112	NNB15HF	66	
TOWER 6	175.00	1108.25									
229		1114.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	117	
230	13.50	1119.37	14.18	14.19	37.25	14.54	R3000 46 CREAM	113	NNB15HF	72	
231		1124.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	118	
232	9.50	1128.87	11.82	11.91	37.06	14.75	R3000 42 MUSTARD	114	NNB15HF	78	
233		1133.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	119	
234	9.50	1138.37	11.92	11.91	36.90	14.75	R3000 42 MUSTARD	115	NNB15HF	84	

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
235		1143.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	120	
236	9.50	1147.87	12.02	11.91	36.76	14.75	R3000 42 MUSTARD	116	NNB15HF	84	
237		1152.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	121	
238	9.50	1157.37	12.12	11.91	36.64	14.75	R3000 42 MUSTARD	117	NNB15HF	90	
239		1162.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	122	
240	9.50	1166.87	12.23	12.46	36.55	14.70	R3000 43 MUS/MRN	118	NNB15HF	90	
241		1171.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	123	
242	9.50	1176.37	12.32	12.46	36.48	14.70	R3000 43 MUS/MRN	119	NNB15HF	96	
243		1181.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	124	
244	9.50	1185.87	12.41	12.46	36.43	14.70	R3000 43 MUS/MRN	120	NNB15HF	96	
245		1190.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	125	
246	9.50	1195.37	12.50	12.46	36.41	14.70	R3000 43 MUS/MRN	121	NNB15HF	96	
247		1200.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	126	
248	9.50	1204.87	15.27	15.45	36.41	14.43	R3000 48 DK BLUE	122	NNB15HF	96	
249		1209.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	127	
250		1213.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	128	
251	13.50	1218.37	15.39	15.45	36.46	14.43	R3000 48 DK BLUE	123	NNB15HF	96	
252		1223.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	129	
253	9.50	1227.87	12.82	13.01	36.52	14.65	R3000 44 MAROON	124	NNB15HF	90	
254		1232.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	130	
255	9.50	1237.37	12.90	13.01	36.60	14.65	R3000 44 MAROON	125	NNB15HF	90	
256		1242.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	131	
257	9.50	1246.87	12.98	13.02	36.70	14.65	R3000 44 MAROON	126	NNB15HF	84	
258		1251.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	132	
259	9.50	1256.37	13.07	13.02	36.83	14.65	R3000 44 MAROON	127	NNB15HF	84	
260		1261.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	133	
261	9.50	1265.87	13.18	13.02	36.98	14.65	R3000 44 MAROON	128	NNB15HF	78	
262		1270.62	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	134	
263	9.50	1275.37	13.32	13.61	37.16	14.59	R3000 45 MRN/CRM	129	NNB15HF	72	
264		1280.12	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	135	
265	9.50	1284.87	12.78	13.01	37.20	14.65	R3000 44 MAROON	130	NNB15HF	66	
TOWER 7	179.00	1287.25	PIPE ID CHANGES FROM 6.415 TO 2.790								
266	8.75	1293.62	12.98	13.02	37.19	14.65	R3000 44 MAROON	131	NNB15HF	66	
267		1298.37	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	136	
268	7.13	1300.75	12.87	13.01	37.19	14.65	R3000 44 MAROON	132	NNB15HF	66	
OVERHANG	13.50	1300.75									

TOTAL GPM = 950.95

GPA = 7.75

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 20.00 PSI
 WITH GRADUATED ELEVATION OF 20.00 FT THE INLET PRESSURE IS 29.51 PSI FOR SPRINKLER 123
 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	2.75	21.32	29.21	37%	10.62	0.023	0.84	1.13	1.41
2	8.18	63.40	63.14	0%	7.72	0.017	0.61	0.82	1.02
3	13.61	105.49	104.21	-1%	7.66	0.017	0.61	0.81	1.02
4	16.93	131.26	129.50	-1%	7.65	0.017	0.61	0.81	1.01
5	21.35	165.51	163.30	-1%	7.65	0.017	0.61	0.81	1.01
6	25.77	199.75	196.70	-2%	7.63	0.017	0.61	0.81	1.01
7	30.93	239.75	235.91	-2%	7.63	0.017	0.61	0.81	1.01
OVERHANG	2.52	19.53	29.00	48%	11.51	0.025	0.92	1.22	1.53
TOTAL	122.03	946.00	950.95		7.79				

SUMMARY OF SPRINKLERS

14 R3000 14 LIME
3 R3000 15 LIME/LAV
2 R3000 17 LAV/GRAY
5 R3000 18 GRAY
3 R3000 19 GRAY/TURQ
3 R3000 20 TURQUOISE
3 R3000 21 TURQ/YEL
4 R3000 22 YELLOW
4 R3000 25 RED/WHITE
3 R3000 26 WHITE
4 R3000 27 WHITE/BLUE
4 R3000 28 BLUE
4 R3000 29 BLUE/DK BRN
1 R3000 30 DK BROWN
5 R3000 31 DK BRN/ORN
4 R3000 32 ORANGE
7 R3000 33 ORN/DK GRN
2 R3000 34 DK GREEN
4 R3000 35 DK GRN/PUR
5 R3000 36 PURPLE
6 R3000 37 PUR/BLK
5 R3000 38 BLACK
5 R3000 39 BLK/DTURQ
6 R3000 40 DK TURQ
3 R3000 41 DTURQ/MUS
6 R3000 42 MUSTARD
4 R3000 43 MUS/MRN
8 R3000 44 MAROON
1 R3000 45 MRN/CRM
2 R3000 46 CREAM
2 R3000 48 DK BLUE

SUMMARY OF DROPS

15 66 IN DROP
13 72 IN DROP
22 78 IN DROP
22 84 IN DROP
35 90 IN DROP
25 96 IN DROP

SUMMARY OF REGULATORS

39 Nelson Blue Int Uni Flo 20 psi
72 Nelson Blue Int Uni Flo 15 psi
21 Nelson Blue Int Hi Flo 15 psi

136 PLUGS**TOTAL OF 132 DROPS****TOTAL OF 132 REGULATORS**

NOZZLE POSITION CHART

R3000 14 LIME	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
R3000 15 LIME/LAV	15, 16, 17
R3000 17 LAV/GRAY	20, 21
R3000 18 GRAY	18, 19, 22, 23, 24
R3000 19 GRAY/TURQ	25, 26, 27
R3000 20 TURQUOISE	28, 29, 30
R3000 21 TURQ/YEL	31, 32, 33
R3000 22 YELLOW	34, 35, 36, 37
R3000 25 RED/WHITE	38, 39, 40, 41
R3000 26 WHITE	42, 43, 44
R3000 27 WHITE/BLUE	45, 46, 47, 48
R3000 28 BLUE	49, 50, 51, 52
R3000 29 BLUE/DK BRN	53, 54, 55, 56
R3000 30 DK BROWN	57
R3000 31 DK BRN/ORN	60, 61, 62, 63, 64
R3000 32 ORANGE	65, 66, 67, 68
R3000 33 ORN/DK GRN	58, 59, 69, 70, 71, 72, 73
R3000 34 DK GREEN	74, 75
R3000 35 DK GRN/PUR	78, 79, 80, 81
R3000 36 PURPLE	82, 83, 84, 85, 86
R3000 37 PUR/BLK	87, 88, 89, 90, 91, 92
R3000 38 BLACK	76, 77, 93, 96, 97
R3000 39 BLK/DTURQ	98, 99, 100, 101, 102
R3000 40 DK TURQ	103, 104, 105, 106, 107, 108
R3000 41 DTURQ/MUS	109, 110, 111
R3000 42 MUSTARD	94, 95, 114, 115, 116, 117
R3000 43 MUS/MRN	118, 119, 120, 121
R3000 44 MAROON	124, 125, 126, 127, 128, 130, 131, 132
R3000 45 MRN/CRM	129
R3000 46 CREAM	112, 113
R3000 48 DK BLUE	122, 123

**DEINES IRRIGATION INC.
1101 MAIN STREET
TORRINGTON, WYOMING 82240**

SEPTEMBER 30, 2025
WISH-119636
H & T RANCH

REINKE ELECTROGATOR 65
NELSON R3000 ROTATORS
NELSON 20 & 15 PSI REGULATORS
POLYDROPS®
HEAD

Rotation time at 100% = 12.55 Hours Or 753 minutes

950 GPM @ 51 PSI

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				20	96	28	20	20LF	39	PLUG	66	58	33	15LF	21	PLUG	87	37	15LF	7	PLUG	84	116	42	
2	PLUG				21	PLUG	29	20	20LF	40	TOWER 3	66	59	33	15LF	22	PLUG	87	37	15LF	8	PLUG	90	116	42	
3	PLUG				22	96	29	20	20LF	1		72	60	31	15LF	23	PLUG	88	37	15LF	9	PLUG	90	117	42	
4	PLUG				23	PLUG	30	20	20LF	2		78	61	31	15LF	24	PLUG	89	37	15LF	10	PLUG	90	118	43	
5	PLUG				24	96	30	20	20LF	3	PLUG	78	61	31	15LF	25	PLUG	89	37	15LF	11	PLUG	90	119	43	
6	78	1	14	20LF	25	PLUG	31	21	20LF	4	PLUG	72	60	31	15LF	26	PLUG	89	37	15LF	12	PLUG	90	119	43	
7	PLUG				26	96	31	21	20LF	5	PLUG	78	61	31	15LF	27	PLUG	90	37	15LF	13	PLUG	90	120	43	
8	84	2	14	20LF	27	PLUG	32	21	20LF	6	PLUG	78	61	31	15LF	28	PLUG	90	37	15LF	14	PLUG	96	119	43	
9	PLUG				28	90	32	21	20LF	7	PLUG	78	62	31	15LF	29	PLUG	91	37	15LF	15	PLUG	96	120	43	
10	90	3	14	20LF	29	PLUG	33	21	20LF	8	PLUG	78	62	31	15LF	30	PLUG	91	37	15LF	16	PLUG	96	121	43	
11	PLUG				30	90	33	21	20LF	9	PLUG	84	63	31	15LF	31	PLUG	92	37	15LF	17	PLUG	96	121	43	
12	90	4	14	20LF	31	PLUG	34	22	20LF	10	PLUG	84	63	31	15LF	32	PLUG	93	38	15LF	19	PLUG	96	122	48	
13	PLUG				32	84	34	22	20LF	11	PLUG	84	64	31	15LF	33	PLUG	93	38	15LF	20	PLUG	96	122	48	
14	90	5	14	20LF	33	PLUG	35	22	20LF	12	PLUG	84	64	31	15LF	34	PLUG	93	38	15LF	21	PLUG	96	122	48	
15	PLUG				34	78	35	22	20LF	13	PLUG	84	64	31	15LF	35	PLUG	94	42	15LF	22	PLUG	96	123	48	
16	96	6	14	20LF	35	PLUG	36	22	20LF	14	PLUG	90	65	32	15LF	1	PLUG	95	42	15LF	23	PLUG	96	123	48	
17	PLUG				36	78	36	22	20LF	15	PLUG	90	66	32	15LF	2	PLUG	95	42	15LF	24	PLUG	90	124	44	
18	96	7	14	20LF	37	PLUG	37	22	20LF	16	PLUG	90	66	32	15LF	3	PLUG	96	38	15LF	25	PLUG	90	125	44	
19	PLUG				38	72	37	22	20LF	17	PLUG	90	67	32	15LF	6	PLUG	97	38	15LF	26	PLUG	90	126	44	
20	96	8	14	20LF	39	PLUG	38	25	20LF	18	PLUG	90	67	32	15LF	7	PLUG	98	39	15LF	27	PLUG	90	125	44	
21	PLUG				40	TOWER 2	38	25	20LF	19	PLUG	90	67	32	15LF	8	PLUG	98	39	15LF	28	PLUG	90	126	44	
22	96	9	14	20LF	1		39	25	20LF	20	PLUG	90	68	32	15LF	9	PLUG	99	39	15LF	29	PLUG	84	126	44	
23	PLUG				2		72	39	25	20LF	21	PLUG	90	69	33	15LF	10	PLUG	99	39	15LF	30	PLUG	84	127	44
24	96	10	14	20LF	3	PLUG	73	25	20LF	22	PLUG	90	69	33	15LF	11	PLUG	99	39	15LF	31	PLUG	90	130	44	
25	PLUG				4	78	40	25	15LF	23	PLUG	90	70	33	15LF	12	PLUG	100	39	15LF	32	PLUG	78	128	44	
26	96	11	14	20LF	5	PLUG	78	40	25	15LF	24	PLUG	90	70	33	15LF	13	PLUG	101	39	15LF	33	PLUG	78	128	44
27	PLUG				6	78	41	25	15LF	25	PLUG	90	71	33	15LF	14	PLUG	101	39	15LF	34	PLUG	84	129	45	
28	90	12	14	20LF	7	PLUG	84	42	26	15LF	26	PLUG	84	71	33	15LF	15	PLUG	102	39	15LF	35	PLUG	72	129	45
29	PLUG				8	84	42	26	15LF	27	PLUG	84	72	34	15LF	16	PLUG	103	40	15LF	36	PLUG	66	130	44	
30	90	13	14	20LF	9	PLUG	84	43	26	15LF	28	PLUG	84	72	33	15LF	17	PLUG	104	40	15LF	37	PLUG	66	131	44
31	PLUG				10	90	43	26	15LF	29	PLUG	78	73	33	15LF	18	PLUG	104	40	15LF	1	PLUG	90	131	44	
32	84	14	14	20LF	11	PLUG	90	44	26	15LF	30	PLUG	78	73	33	15LF	19	PLUG	105	40	15LF	2	PLUG	66	132	44
33	PLUG				12	90	44	26	15LF	31	PLUG	72	74	34	15LF	20	PLUG	106	40	15LF	3	PLUG	66	132	44	
34	78	15	15	20LF	13	PLUG	96	45	27	15LF	32	PLUG	66	75	34	15LF	21	PLUG	107	40	15LF	1	PLUG	90	133	44
35	PLUG				14	96	45	27	15LF	33	PLUG	66	76	38	15LF	22	PLUG	108	40	15LF	2	PLUG	90	133	44	
36	78	16	15	20LF	15	PLUG	96	46	27	15LF	34	PLUG	72	110	41	15LF	23	PLUG	109	41	15LF	3	PLUG	72	134	45
37	PLUG				16	96	46	27	15LF	35	PLUG	72	110	41	15LF	24	PLUG	110	41	15LF	34	PLUG	72	134	45	
38	72	17	15	20LF	17	PLUG	96	46	27	15LF	36	PLUG	66	76	38	15LF	25	PLUG	111	41	15LF	35	PLUG	72	135	45
39	PLUG				18	96	47	27	15LF	1	TOWER 4	72	80	35	15LF	2	PLUG	111	41	15LF	36	PLUG	72	135	45	
40	66	18	18	20LF	19	96	47	27	15LF	2	78	80	35	15LF	3	PLUG	112	46	15HF	37	PLUG	72	136	44		
1	PLUG				20	96	48	27	15LF	3	72	77	38	15LF	4	PLUG	112	46	15HF	38	PLUG	72	136	44		
2	72	19	18	20LF	21	PLUG	96	49	28	15LF	4	PLUG	72	78	35	15LF	5	PLUG	107	40	15LF	25	PLUG	84	137	45
3	PLUG				22	96	49	28	15LF	5	PLUG	78	79	35	15LF	6	PLUG	108	40	15LF	26	PLUG	84	137	45	
4	78	20	17	20LF	23	PLUG	96	50	28	15LF	6	PLUG	78	80	35	15LF	7	PLUG	109	41	15LF	27	PLUG	84	138	45
5	PLUG				24	96	50	28	15LF	7	PLUG	78	80	35	15LF	8	PLUG	110	41	15LF	28	PLUG	84	138	45	
6	78	21	17	20LF	25	PLUG	96	51	28	15LF	9	PLUG	84	81	35	15LF	10	PLUG	111	41	15LF	29	PLUG	84	139	45
7	PLUG				26	96	51	28	15LF	11	PLUG	84	82	36	15LF	12	PLUG	111	41	15LF	30	PLUG	78	139	45	
8	84	22	18	20LF	27	PLUG	90	52	28	15LF	13	PLUG	84	83	36	15LF	14	PLUG	112	46	15HF	31	PLUG	72	140	46
9	PLUG				28	90	52	28	15LF	15	PLUG	90	84	36	15LF	16	PLUG	113	46	15HF	32	PLUG	72	140	46	
10	90	23	18	20LF	29	PLUG	90	53	29	15LF	17	PLUG	90	84	36	15LF	18	PLUG	114	42	15HF	33	PLUG	78	141	46
11	PLUG				30	90	53	29	15LF	19	PLUG	90	85	36	15LF	20	PLUG	115	42	15HF	34	PLUG	84	141	46	
12	90	24	18	20LF	31	PLUG	84	54	29	15LF	21	PLUG	90	86	36	15LF	22	PLUG	116	42	15HF	35	PLUG	84	142	46
13	PLUG				32	84	54	29	15LF	23	PLUG	90	87	36	15LF	24	PLUG	117	42	15HF	36	PLUG	84	142	46	
14	96	25	19	20LF	33	PLUG	78	55	29	15LF	25	PLUG	90	88	36	15LF	26	PLUG	118	42	15HF	37	PLUG	84	143	46
15	PLUG				34	78	55	29	15LF	27	PLUG	78	89	36	15LF	28	PLUG	119	42	15HF	38	PLUG	78	144	46	
16	96	26	19	20LF	35	PLUG	78	56	29	15LF	29	PLUG	84	90	36	15LF	30	PLUG	120	42	15HF	39	PLUG	78	145	46
17	PLUG				36	78	56	29	15LF	31	PLUG	84	91	36	15LF	32	PLUG	121	42	15HF	40	PLUG	78	146	46	
18	96	27	19	20LF	37	PLUG	72	57	30	15LF	33	PLUG	90	86	36	15LF	34	PLUG	122	42	15HF	41	PLUG	84	147	46
19	PLUG				38	72	57	30	15LF	35	TOWER 6	90	86	36	15LF	36	PLUG	123	42	15HF	42	PLUG	90	148	46	

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119636

SEPTEMBER 30, 2025

DEALER - DEINES IRRIGATION INC.

IRRIGATOR - H & T RANCH

TOTAL LENGTH PIPE = 1300.75 SYSTEM PRESSURE = 51 PSI
 GPM UNDER PIPE = 950.95 TOTAL GPM = 950.95
 ACRES UNDER PIPE = 122.03
 RANGE OF ENDGUN = .00
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = .6
 LOADED MOTOR RPM = 1728
 CENTER GEAR BOX RATIO = 48
 WHEEL GEAR BOX RATIO = 50
 TIRE SIZE = 11.2 X 38
 LAST TOWER SPEED (FPM) = 10.74

PRECIPITATION BASED**% TIMER BASED**

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.22	100.00	12.55 - 753(min)	100.00	.22	12.55 - 753(min)
.25	86.45	14.52	90.00	.24	13.95
.30	72.04	17.42	80.00	.27	15.69
.40	54.03	23.23	70.00	.31	17.93
.50	43.23	29.04	60.00	.36	20.92
.60	36.02	34.84	50.00	.43	25.10
.70	30.88	40.65	45.00	.48	27.89
.75	28.82	43.56	40.00	.54	31.38
.80	27.02	46.46	35.00	.62	35.86
.90	24.01	52.27	30.00	.72	41.84
1.00	21.61	58.07	25.00	.86	50.21
1.25	17.29	72.59	20.00	1.08	62.76
1.50	14.41	87.11	15.00	1.44	83.68
1.75	12.35	101.63	10.00	2.16	125.51
2.00	10.81	116.15	5.00	4.32	251.03

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 - DEINES IRRIGATION INC.
P.O. - 12395

IRRIGATOR - H & T RANCH

<u>SPAN 1 POS/LEN</u>	<u>SPAN 2 POS/LEN</u>	<u>SPAN 3 POS/LEN</u>	<u>SPAN 4 POS/LEN</u>	<u>SPAN 5 POS/LEN</u>	<u>SPAN 6 POS/LEN</u>	<u>SPAN 7 POS/LEN</u>	<u>ENDBOOM POS/LEN</u>
1 - 78	19 - 72	39 - 72	59 - 66	77 - 66	95 - 66	113 - 72	131 - 66
2 - 84	20 - 78	40 - 78	60 - 72	78 - 72	96 - 72	114 - 78	132 - 66
3 - 90	21 - 78	41 - 78	61 - 78	79 - 78	97 - 78	115 - 84	
4 - 90	22 - 84	42 - 84	62 - 78	80 - 78	98 - 78	116 - 84	
5 - 90	23 - 90	43 - 90	63 - 84	81 - 84	99 - 84	117 - 90	
6 - 96	24 - 90	44 - 90	64 - 84	82 - 84	100 - 84	118 - 90	
7 - 96	25 - 96	45 - 96	65 - 90	83 - 90	101 - 90	119 - 96	
8 - 96	26 - 96	46 - 96	66 - 90	84 - 90	102 - 90	120 - 96	
9 - 96	27 - 96	47 - 96	67 - 90	85 - 90	103 - 90	121 - 96	
10 - 96	28 - 96	48 - 96	68 - 90	86 - 90	104 - 90	122 - 96	
11 - 96	29 - 96	49 - 96	69 - 90	87 - 90	105 - 90	123 - 96	
12 - 90	30 - 96	50 - 96	70 - 90	88 - 90	106 - 90	124 - 90	
13 - 90	31 - 96	51 - 96	71 - 84	89 - 84	107 - 84	125 - 90	
14 - 84	32 - 90	52 - 90	72 - 84	90 - 84	108 - 84	126 - 84	
15 - 78	33 - 90	53 - 90	73 - 78	91 - 78	109 - 78	127 - 84	
16 - 78	34 - 84	54 - 84	74 - 72	92 - 72	110 - 72	128 - 78	
17 - 72	35 - 78	55 - 78	75 - 66	93 - 66	111 - 66	129 - 72	
18 - 66	36 - 78	56 - 78	76 - 66	94 - 66	112 - 66	130 - 66	
	37 - 72		57 - 72				
	38 - 66		58 - 66				

SUMMARY OF DROPS

15 - 66 IN DROP
 13 - 72 IN DROP
 22 - 78 IN DROP
 22 - 84 IN DROP
 35 - 90 IN DROP
 25 - 96 IN DROP

TOTAL OF 132 DROPS

POLY STEEL MALE X PLASTIC MALE