

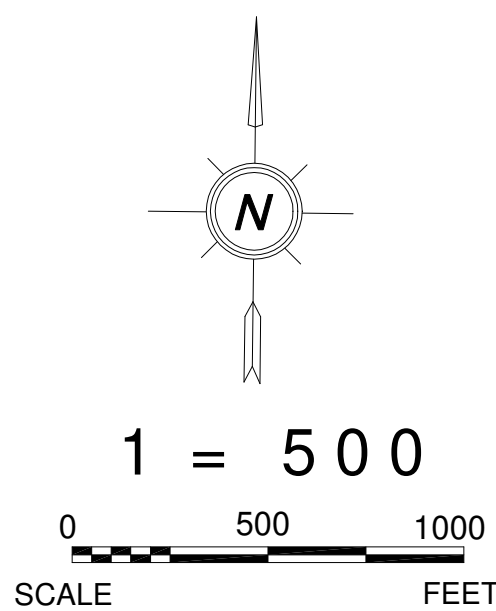
DESIGN INFORMATION

THIS DESIGN IS FOR A SPRINKLER IRRIGATION SYSTEM FOR ~547 ± 290 AC. VINEYARD NEW PLANTING VINE SPACING IS 8' x 5' (1089 VINES/AC.) AND 8' x 4' (1361 VINES/AC.) SEE PLAN FOR SPACING BY BLOCK SPRINKLER SPACING IS 40' x 48' ON ALL BLOCKS, 22.68 SPR/AC. (48.76 GPM PER AC.) SPRINKLERS NELSON ROTATOR R2000LP WF-14 #14 GREEN NOZZLE 2.15 GPM (W/ MINI-REG MR40 ACME) SYSTEM UTILIZES NEW PUMPS AND SCREEN FILTERS.

North Fork Vineyards

VINEYARD FROST SPRINKLER SYSTEM DESIGN
CUYAMA VALLEY, CA.

REV 1/18/2017
REV 1/17/2017
REV 1/10/2017
REV 9/20/2016
REV 9/12/2016
REV 9/05/2016



VINEYARD IRRIGATION
OVERHEAD SPRINKLER
SYSTEM BASE MAP

North Fork Vineyards
Cuyama Valley CA

AG-Ideas LLC
IRRIGATION SYSTEM DESIGN
Telephone (831) 235-5113 - FAX (831) 484-2198
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1 Sheet
of
DESCRIPTION
NORTH FORK
VINEYARDS
PH. 1 & 2 FROST

North Fork Vineyard Blocks Phase One (Rev. 8/3/16)

Block	Acres	Sprinkler Spacing	Sprinklers	Frost Gpm
1A	3.5	40 x 48	79	171
1B	18.0	40 x 48	408	878
10	25.4	40 x 48	576	1239
2A	18.5	40 x 48	420	902
2B	23.4	40 x 48	531	1141
2C	23.5	40 x 48	533	1146
2D	17.6	40 x 48	399	858
2E	14.3	40 x 48	324	697
2 F	14.2	40 x 48	322	692
2G	12.4	40 x 48	281	605
3	20.7	40 x 48	469	1009
4	27.0	40 x 48	612	1317
5A	9.6	40 x 48	218	468
5B	21.7	40 x 48	492	1058
5C	17.7	40 x 48	401	863
5D	18.6	40 x 48	422	907
6A	12.2	40 x 48	277	595
6B	15.6	40 x 48	354	761
6C	16.0	40 x 48	363	780
7A	26.7	40 x 48	606	1302
7B	23.0	40 x 48	522	1121
70	26.5	40 x 48	601	1292
8A	20.1	40 x 48	456	980
8B	22.0	40 x 48	499	1073
80	19.6	40 x 48	445	956
8D	20.3	40 x 48	460	990
9A	20.3	40 x 48	460	990
9B	21.4	40 x 48	485	1043
9C	17.5	40 x 48	397	853
Totals:	547.3		12412	26686

North Fork Vineyard Blocks Phase Two (Rev. 9/12/16)

Block	Acres	Sprinkler Spacing	Sprinklers	Frost Gpm
20	25.6	40 x 48	581	1248
21A	27.0	40 x 48	612	1317
21B	27.0	40 x 48	612	1317
210	27.0	40 x 48	612	1317
22A	25.6	40 x 48	581	1248
22B	30.3	40 x 48	687	1477
23A	23.3	40 x 48	528	1136
23B	23.5	40 x 48	533	1146
28A	26.7	40 x 48	606	1302
28B	26.7	40 x 48	606	1302
280	27.4	40 x 48	621	1336
Totals:	290.1		6579	14145

Plate/Nozzle Options and Flow Performance in Gallons Per Minute										
Plate Options	Recommended Nozzles	Model & Radius	PSI							
			25	30	35	40	45	50	55	60
BLUE WF10 #12113	Dk. Blue #10 #9306-078	R2000LP Rad. 30-32"	0.88	0.97	1.05	1.12	1.19	1.25	--	--
	Nozzle/Body Assy. (5/64") #9920-010	R2000WF Rad. 33-35"	--	--	--	1.12	1.19	1.25	1.31	1.37
PURPLE WF12 #10452	Orange #11 #9306-086	R2000LP Rad. 32-34"	1.07	1.17	1.27	1.36	1.45	1.53	--	--
	Nozzle/Body Assy. (11/128") #9920-011	R2000WF Rad. 35-37"	--	--	--	1.36	1.45	1.53	1.61	1.68
GREEN WF14 #9677	Purple #12 #9306-094	R2000LP Rad. 33-35"	1.27	1.39	1.50	1.61	1.70	1.80	--	--
	Nozzle/Body Assy. (9/32") #9920-012	R2000WF Rad. 37-38"	--	--	--	1.61	1.70	1.80	1.89	1.98
RED WF16 #9931	Yellow #13 #9306-102	R2000LP Rad. 33-36"	1.50	1.64	1.78	1.90	2.02	2.13	--	--
	Nozzle/Body Assy. (13/128") #9920-013	R2000WF Rad. 37-38"	--	--	--	1.90	2.02	2.13	2.23	2.34
	Green #14 #9306-109	R2000LP Rad. 34-37"	1.70	1.85	2.00	2.15	2.28	2.40	--	--
	Nozzle/Body Assy. (7/64") #9920-014	R2000WF Rad. 38-40"	--	--	--	2.15	2.28	2.40	2.53	2.64
	Tan #15 #9306-117	R2000LP Rad. 34-37"	1.98	2.17	2.35	2.53	2.67	2.82	--	--
	Nozzle/Body Assy. (15/128") #9920-015	R2000WF Rad. 38-41"	--	--	--	2.53	2.67	2.82	2.97	3.11
	Red #16 #9306-125	R2000LP Rad. 36-38"	2.28	2.50	2.70	2.89	3.07	3.23	--	--
	Nozzle/Body Assy. (1/8") #9920-016	R2000WF Rad. 39-41"	--	--	--	2.89	3.07	3.23	3.40	3.54

SIZE	GPM
8"	825
10"	1150
12"	1650
15"	2600
18"	3850
21"	4900
24"	6200

Max. Flows @ 5 ft/sec.