L.A. SEAL

PROJECT/CLIENT

SHEET TITLE

**REVISIONS** 

**DRAWN BY** 

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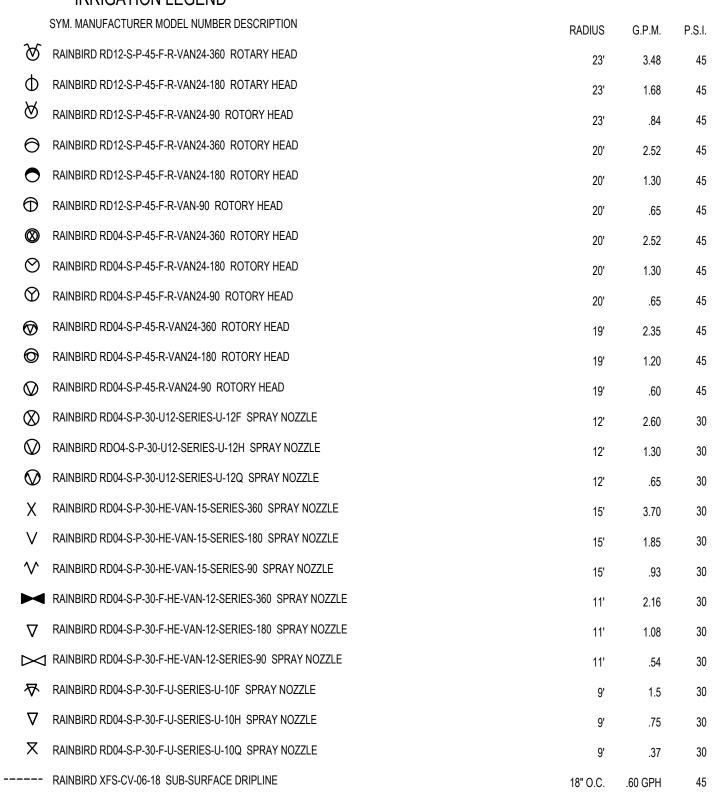
DATE

09/05/2021

**SCALE** 

1/16" = 1'-0"

**JOB NUMBER** 



EQUIPME	ENI	MODEL	DESCRIPTION 1-1/2" WATER METER - EXISTING
	FEBCO FEBCO	825Y 825YA	2" REDUCED PRESSURE BACKFLOW DEVICE w/ WYE STRAINER 60-MESH AND STAINLESS STEEL STRONGBOX ENCLOSURE 3/4" REDUCED PRESSURE BACKFLOW DEVICE w/ STAINLESS STEEL STRONGBOX
- -	WILKENS	500 SERIES	ENCLOSURE 2" PRESSURE REGULATOR
$\otimes$	CALSENSE	FM-1.0B	1" FLOW SENSOR
MV	SUPERIOR	3200-200-RW	2" MASTER VALVE, NORMALLY CLOSED
$\bowtie$	NIBCO	T-585	LINE-SIZE FULL PORT BRONZE BALL VALVE
•	RAINBIRD	EFB-CP-PRS-D	REMOTE CONTROL GLOBE VALVE, SIZE AS SHOWN. ADD PRESSURE REGULATOR AS
$\oplus$	RAINBIRD	XCZ-PRB-100-COM	NEEDED 1" DRIP ZONE VALVE KIT IN-LINE w/ 200MESH FILTER,AND 40 PSI REGULATOR
•	RAINBIRD	44 DLRC	1" QUICK COUPLER POTABLE w/ 2 KEYS 44s-DK
<del>+</del>	NETAFIM	TLSOV	MANUAL FLUSH VALVE FOR DRIP SYSTEM
+	RAINBIRD	ARVO5O	AIR RELIEF VALVE KIT
A	CALSENSE	ET3000	CALSENSE 24 STATION STAINLESS STEEL PEDESTAL MOUNTED CONTROLLER ASSEMBLY #ET2000e-48-LR-M-RRe-SSEDR
	APPROVED	SCH. 40 PVC	MAINLINE, SIZE AS SHOWN, MIN. COVER 24 Ó
	APPROVED	SCH. 40 PVC	POTABLE LINE, SIZE AS SHOWN, MIN. COVER 24 Ó
	APPROVED	SCH. 40 PVC	LATERAL LINE, SIZE AS SHOWN, MIN. COVER 12Ó
	APPROVED	SCH. 40 PVC	LATERAL LINE, SIZE AS SHOWN, MIN. COVER 12Ó ON GRADE VVR RESISTANT PIPE
:=======	APPROVED	SCH. 40 PVC	SLEEVES, SIZED 2X LARGER THAN PIPE TO BE INSERTED, UNLESS OTHERWISE NOTED
	APPROVED	SCH. 40 PVC	WIRE SLEEVE, SIZE AS REQUIRED, UNLESS OTHERWISE NOTED.

POINT OF CONNECTION NOTE: CONTRACTOR TO MAKE POINT OF CONNECTION IMMEDIATELY DOWNSTREAM OF NEW 1- $\frac{1}{2}$ " DOMESTIC WATER METER (BY OTHERS). MAINLINE TO EQUIPMENT AND VALVES AS SHOWN. EXISTING STATIC PRESSURE: 114 PSI SYSTEM DESIGN PRESSURE: 89 PSI MAXIMUM G.P.M. DEMAND: 50 GPM CONTROLLER NOTE:

----- RAINBIRD XFS-CV-09-12 SUB-SURFACE DRIPLINE

SCALE: 1/16" = 1'-0"

CONTRACTOR TO INSTALL A WIRELESS RAIN SENSOR ON WALL OR FENCE IN AREA TO COLLECT RAIN WATER. CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS.

IRRIGATION LEGEND

EQUIPME M	ENT	MODEL	<b>DESCRIPTION</b> 1-1/2" WATER METER - EXISTING
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REFER TO UTILITY PLANS FOR MORE INFORMATION. EXTEND PRESSURE AUTOMATIC IRRIGATION CONTROLLERS TO BE WITHIN A STAINLESS STEEL PEDESTAL, MAKE AND MODEL AS SPECIFIED ON IRRIGATION LEGEND. INSTALLATION LOCATION APPROXIMATE. 110 VOLT POWER PROVIDED BY OWNER. IRRIGATION CONTROLLER SHALL PROVIDE AND BATTERIES IN EACH CONTROLLER FOR BACKUP POWER.

DRIVE SOFTWIND CONTROLLER LOCATION

WATER EFFICIENT LANDSCAPE WORKSHE PRESSURE LOSS CALCULATION	_
Non-Residential Landscape Projects INFO. SOURCE:	
Reference ETo for the area ETo= 54.6 VALVE NUMBER V-1 IRRIG. TYPE STATIC WATER PRESSURE @ WATER METER	
Estimated Total Water Use (ETWU):  TWU is calculated using the following formula: (Eto) (.62) (ETAF) (LA)  SIZE DESCRIPTION	GF
Hydrozone # / Planting Description Plant Factor (PF) Method Plant (IE) Plant (PF/IE) Area (sq. ft.) Area (sq. f	
tegular Landscape Areas   2" BACKFLOW PREVENTER	
71-1 ov Shrub 0.2 Dripline 0.81 0.25 6.113 1509 51096 2" MASTER VALVE	
72 Med Shrub 0.4 MR Belefer 0.75 0.52 12.450 6490 240281 1" FLOW SENSOR	_
2" PRESSURE REGULATOR	_
23-High Turi 0.7   MP Rotator 0.73   0.93   0   0   0   1-1/2" GATE / BALL VALVE  24-High Turi 0.7   Dripline 0.81   0.86   0   0   0   0   1   Transport of the control of	-
25 - Mod Tree 0.5 Dripline 0.81 0.62 226 140 4723 1-1/2" MAINLINE 147 0.44	ľ
Z6 - Water Features 0.8 - 1.00 0.80 0 0 0	_
Totals 18,489 8129 MAINLINE 0 0.00	)
pecial Landscape Areas Length PSI loss/100'	
77- Edible 1 0 0 1 1-1/4" LATERAL LINE 55 0.95	
Length PSI loss/100'  Z8 - Recreation Areas 1 19,870 19870 672639 3/4" LATERAL LINE 20 0.12	
Totals 19,870 19870 5.71 Length PSiloss/100	
Estimated Total Water Use in gallons per year, ETWU Total 947818 3/4" LATERAL LINE 100 0.44	Ĺ
Maximum Annual Water Allowance in gallons per year, MAWA Total 954290 Length PSI loss/100'	
1AWA calculation: (Eto) (.62) [(ETAFxLA) + ((1-ETAF) x MAWA - ETWU= 6471 LATERAL LINE 0 0.00	
TOTAL PVC LATERAL LINE LOSS	
TAF Calculations PVC LATERAL LINE FITTING LOSS (10%)	
degular Landscape Areas TOTAL FRICTION LOSS	
Total ETAF x Area 8129 ELEVATION @ METER 1065.0 HEAD E	ΞL
Total Area 18,489 be ELEVATION DIFFERENCE 36.0 x	
Average ETAF 0.44 0.45 or below for non-residential areas. PSI REQUIRED AT HEAD	
III Landscape Areas TOTAL PSI REQUIRED	
Total ETAF x Area 27999 REGULATED PRESSURE @ POC (IF APF	Ρ
Total Landscape Area (LA) 38,359	
Sitewide ETAF 0.73 RESIDUAL PRESSURE (MUST BE POSITIVE)	

LIMIT OF WORK

**IRRIGATION NOTES:** 

-**₽**-⊕- **₽** 

**CONTROLER VALVES:** 

DRIVE

SPRINGMOOD

9.75/18 VO //10 1/14 X 37 75

1. THIS SYSTEM IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.

2. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR

3. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION TO OWNER'S CONSTRUCTION REPRESENTATIVE.

4. IT IS THE RESPONSIBILITY OF THE IRREGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND STRUCTURES.

5. MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER, AND BACKFLOW PREVENTER TO BE OF MATERIAL REQUIRED BY LOCAL WATER DISTRICT.

6. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS PRIOR TO PAVING UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.

7. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, STREETS, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE RADIUS TO FIT UNUSUAL SITE CONDITIONS FOR APPROVAL PURPOSES AT NO EXTRA CHARGE. CALL LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR ANY COVERAGE TESTS.

8. QUALITY CONTROL OBSERVATION SEQUENCES ARE FOUND IN THE SPECIFICATIONS.

9. CLEAN-UP ON A DAILY BASIS PER OWNER'S REPRESENTATIVE'S APPROVAL.

12" O.C. .90 GPH 45

