		<u> </u>				
GENERAL NOTES	PRELIMINARY PLANTING NOTES	S	ITE DESIGN	I CALCULA	TIONS	
 PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ARCHITECT FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER. NOTIFY THE ARCHITECT IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR 	 ALL TREES SHALL BE MIN. 36-INCH BOX. ALL SHRUBS SHALL BE MIN. 1-GALLON-CAN SIZE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. MINIMIZE CULTIVATION WITHIN THE DRIPLINES OF EXISTING TREES. PREPARE SOIL FOR 		AREA (SQFT)	AREA (ACRE)	PERCENTAGE % OUT OF NET LOT AREA	
TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE ARCHITECT SHALL BE NOTIFIED AND WILL	SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLINE OF EXISTING TREES. 4. SOILS AND PLANTING FOR BIORETENTION WILL COMPLY WITH APPENDIX B OF THE	NET LOT AREA	1,104,342	25.35	100.00%	KAISER PERMANENTE
INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS. 3. PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION.	STORMWATER C.3 GUIDLINES. 5. NO TREES SHALL BE PLANTED OR STRUCTURES PLACED OVER THE UTILITY LINES OR EASEMENTS	HARDSCAPE AREA	747,167 607,721	18.02	71.08%	
 TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC. SECURE ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT. 		VEHICULAR PEDESTRIAN		13.95 4.07	55.03% 16.06%	EOI SOM MOD
 6. ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE. 7. USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. 8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS. 		SOFTSCAPE AREA	319,224	7.33	28.92%	FOLSOM MOB 285 Palladio Pkwy, Folsom, CA 95630
 DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FLOWS FREE OF OBSTRUCTIONS. COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND 	PRELIMINARY IRRIGATION NOTES					SMITHGROUP
ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS. 12. DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER. 13. PREPARE ALL SUBGRADES IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. PROVIDE PROOF OF ALL REQUIRED SOIL COMPACTION TO THE OWNER. 14. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.	 A PERMANENT, FULLY AUTOMATIC IRRIGATION SYSTEM WILL BE PROVIDED. ALL PLANTING WILL BE IRRIGATED WITH AN AUTOMATICALLY CONTROLLED DRIP SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CONCORD. THE DESIGN TEAM AGREES TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT WATER EFFICIENT LANDSCAPE ORDINANCE OF EAST BAY MUNICIPAL UTILITY 					550 SOUTH HOPE STREET SUITE 1950 LOS ANGELES, CA 90071 213.228.6900
 COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK. INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK". PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE LANDSCAPE ARCHITECT WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER. 	 DISTRICT. 4. THE ELECTRICAL SERVICE REQUIRED FOR THE IRRIGATION CONTROLLER WILL BE PROVIDED UNDER THE ELECTRICAL CONTRACT WORK. 5. THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. 6. MANUAL SHUT-OFF VALVES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE POINT OF CONNECTION OF THE WATER SUPPLY. 7. AT THE END OF THE REQUIRED CONTRACTOR MAINTENANCE PERIOD, THE OWNER SHALL PROVIDE REGULAR MAINTENANCE OF THE IRRIGATION SYSTEM TO ENSURE EFFICIENT USE OF WATER. 8. CONTRACTOR TO MAINTAIN IRRIGATION FOR ANY EXISTING TREES TO REMAIN. CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION FOR ALL PROPOSED TREES UNTIL PERMANENT IRRIGATION IS INSTALLED. 					smithgroup.com
 SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW LAWN SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR SEED MIXES. UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES PLANTED OUTSIDE OF IRRIGATED LANDSCAPE ZONES THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE THAN 24 HOURS. MINIMIZE CULTIVATION WITHIN THE DRIPLINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLINE OF EXISTING TREES. SHOVEL-CUT PLANTING BED EDGES UNLESS LABELED OTHERWISE. 	9. RRIGATION FOR BIORETENTION WILL COMPLY WITH APPENDIX B OF THE STORMWATER C.3 GUIDLINES.					ISSUED FOR REV DATE
 22. MULCH PLANTING BEDS PER SPECIFICATIONS. KEEP MULCH 4 INCHES FROM TREE TRUNKS AND SHRUB CROWNS. 23. CONTACT "811" UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO INSTALLATION OF PLANT MATERIAL AND IRRIGATION SYSTEM. 24. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE. 25. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED. 	PRELIMINARY MATERIALS NOTES 1. SEE SHEETS L5.0.0-L5.0.2 FOR SITE MATERIAL DETAILS. 2. IN ADDITION TO THOSE SHOWN, EXPANSION JOINTS SHALL BE LOCATED AT ALL FIXED SITE ELEMENTS. 3. HATCH PATTERNS ARE SHOWN FOR REFERENCE ONLY. HATCHES DO NOT REPRESENT DIRECTIONAL LAYOUT OR PATTERN OF MATERIALS. 4. REFER TO CIVIL AND SIGNAGE DRAWINGS FOR PARKING LOT STRIPING AND					ENTITLEMENTS 9/26/2022 SEALS AND SIGNATURES
	SIGNAGE. 5. REFER TO SIGNAGE DRAWINGS FOR SITE SIGNAGE. 6. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING. 7. SEE OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION REGARDING MATERIALS NOT DESCRIBED ON THESE PLANS.					CONSTRUCT.
	ACCESSIBILITY NOTES		REFEREN	CE SYMBO	LS	
		SITE SECTION		MATCHLINE F	EFERENCE	
	 ALL SITE WORK SHALL COMPLY WITH CURRENT CALIFORNIA BUILDING CODE (CALIFORNIA CODE OF REGULATIONS TITLE 24), CURRENT STANDARDS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE CURRENT FAIR HOUSING ACT DESIGN MANUAL. ALL PAVING AREAS SHALL BE ACCESSIBLE PER TITLE 24. ALL PAVING SURFACES ARE TO BE STABLE, FIRM, AND SLIP RESISTANT WITH CROSS SLOPES NOT TO EXCEED 2% IN ANY DIRECTION, UNLESS OTHERWISE NOTED. ACCESSIBLE PATHS OF TRAVEL ARE BARRIER-FREE ACCESS ROUTES AT LEAST 48" CLEAR IN WIDTH AND WITHOUT ANY ABRUPT VERTICAL LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. ALL ACCESSIBLE PATHWAYS SHALL BE SLOPED LESS THAN 5% IN THE DIRECTION OF TRAVEL, UNLESS OTHERWISE NOTED. 	SECTION NU 1 C-1 SHEET WHE HYPHEN IND ON SAME SH	ERE DRAWN, DICATES DETAIL	L0.0.0 DRAWING TIT	SHEET MATCHLINE LINE: SEE SHEET SHEET CALLOUT LE SYMBOLS IG NUMBER	
	 ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS BELOW 80" ABOVE FINISH GRADE. OBJECTS WITH LEADING EDGES LOCATED BETWEEN 27" AND 80" ABOVE FINISH GRADE SHALL NOT PROTRUDE MORE THAN 4" HORIZONTALLY INTO THE PATH OF TRAVEL. EXCEPTIONS INCLUDE HANDRAILS, DOOR CLOSERS, AND DOOR STOPS. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BEYOND THE LIMITS ALLOWED. 	T S	EVISION NUMBER - SEE EVISION HISTORY ON THE ITLE BLOCK OF EACH HEET	VIEW 1 1 PROFIL PLANT MATER	SCALE: 1" = 1' LE VIEW TITLE HORIZ SCALE: 1" = 10' VERT SCALE: 1" = 2'	GENERAL NOTES
		1 \	XTENT OF CURRENT EVISION		PLANT CODE IN PLANT SCHEDULE	13931.000 PROJECT NUMBER
					PLANT QUANTITY	L0.0.0



SITE VIEWS

NOTE: COLOR MATERIALS BOARD AND RENDERINGS WILL BE SUBMITTED PRIOR TO THE PUBLIC HEARING



STAFF PATIO



OUTDOOR AMPHITHEATER



OUTDOOR REGISTRATION

N.T.S.

N.T.S.



SOUTH ENTRANCE AND MAIN DROP OFF



FOLSOM MOB

285 Palladio Pkwy, Folsom, CA 95630

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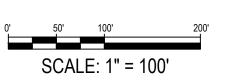
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JED FOR	REV	DATE
		-
ITLEMENTS		9/26/2022

SEALS AND SIGNATURES

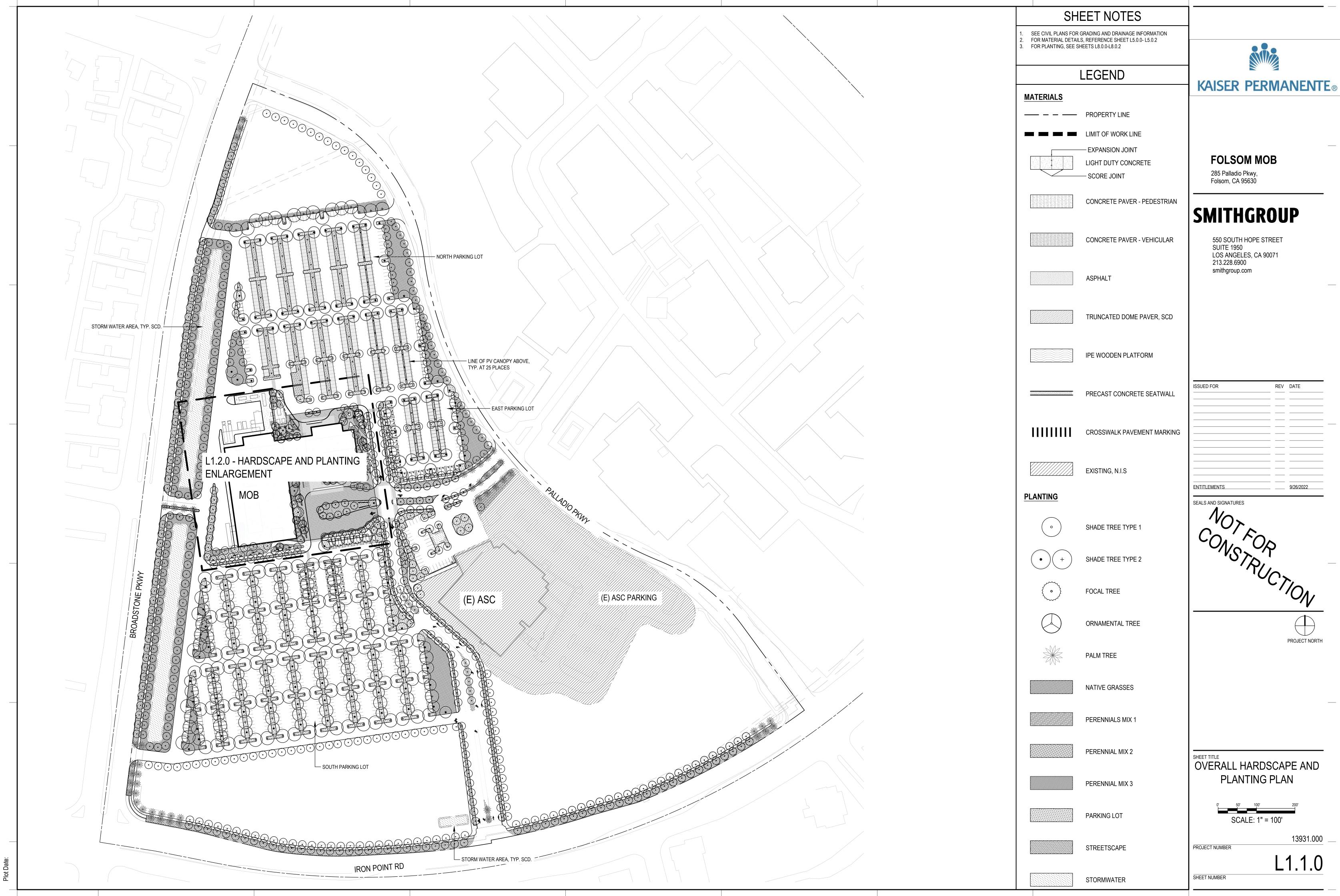
PROJECT NORTH

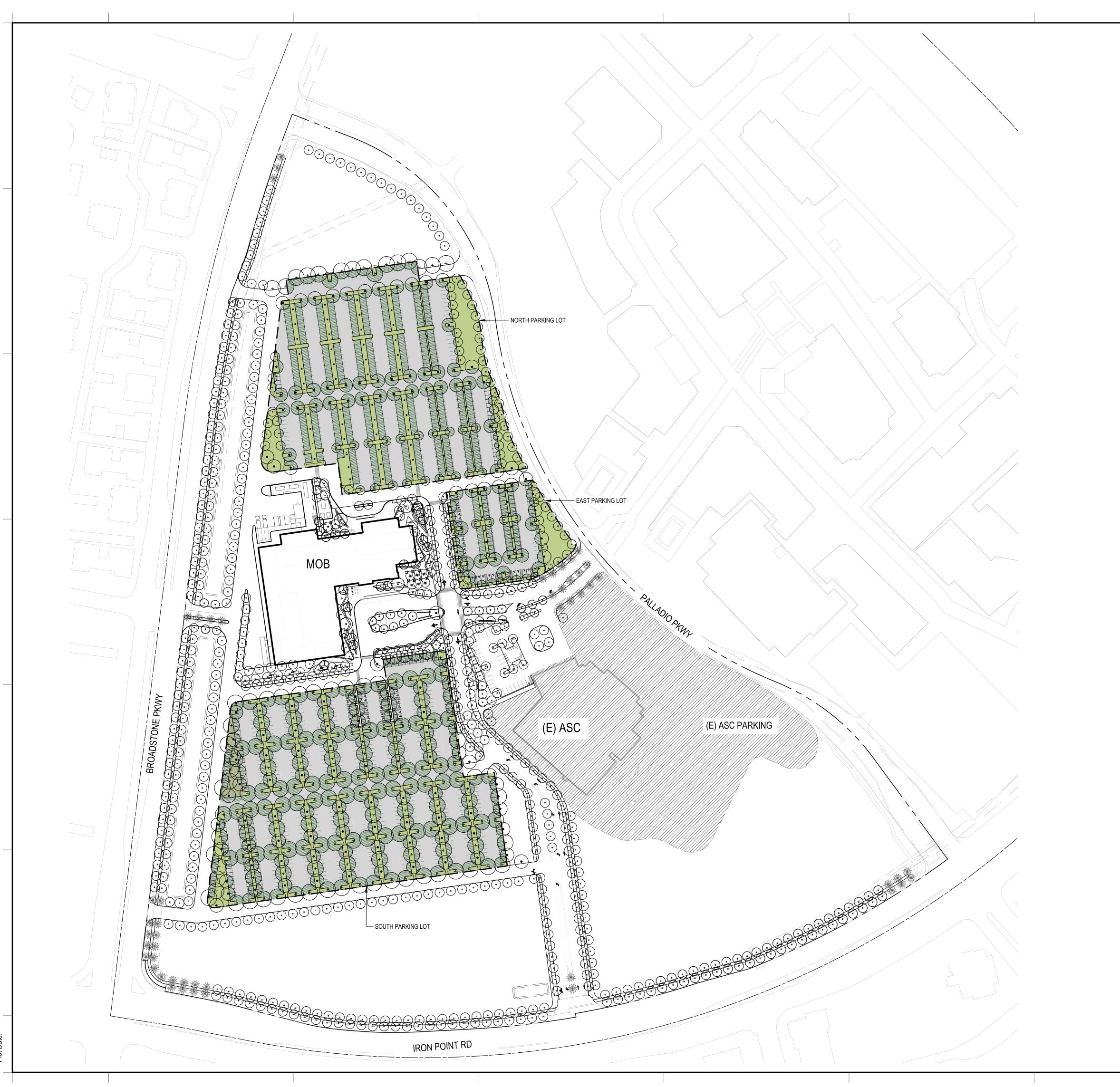
SITE ILLUSTRATIVE PLAN AND SITE VIEWS



PROJECT NUMBER

L0.0.1 SHEET NUMBER





SHEET NOTES

- ALL NEW PARKING LOT SHALL BE LANDSCAPED AT 20% MINIMUM OF
- THE TOTAL LOT AREA.

 SHADE TREES PLANTING IN 36" BOX MINIMUM OR PV STRUCTURES
 SHALL BE INSTALLED TO PROVIDE SHADE 50% MINIMUM OF THE
 TOTAL SURFACE PARKING AREA WITHIN 15 YEARS.

KAISER PERMANENTE®

PARKING SHADE CALCULATION

NORTH PARKING LOT

- TOTAL LOT AREA: 216,678 SF
- TOTAL LANDSCAPED AREA: 56,949 SF OR 26.2% OF LOT AREA
- TOTAL PEDESTRIAN HARDSCAPE AREA: 0 SF
- TOTAL SURFACE PARKING AREA: 159,729 SF TOTAL SHADED SURFACE PARKING AREA: 80,083 SF OR 50.1% OF PARKING AREA

EAST PARKING LOT

- TOTAL LOT AREA: 48,506 SF
- TOTAL LANDSCAPED AREA: 15,233 SF OR 31.4% OF TOTAL PARKING LOT AREA
- TOTAL PEDESTRIAN HARDSCAPE AREA: 590 SF
- TOTAL SURFACE PARKING AREA: 32,683 SF
- TOTAL SHADED SURFACE PARKING AREA: 16,868 SF OR 51.6% OF PARKING AREA

SOUTH PARKING LOT

- TOTAL LOT AREA: 257,694 SF
- TOTAL LANDSCAPED AREA: 54,907 SF OR 21.3% OF TOTAL PARKING LOT AREA
- TOTAL PEDESTRIAN HARDSCAPE AREA: 1,061 SF
- TOTAL SURFACE PARKING AREA: 202,787 SF
- TOTAL SHADED SURFACE PARKING AREA: 110,732 SF OR 54.6% OF PARKING AREA

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LEGEND)
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—— — — PROPERTY LINE

PARKING LOT LINE

PLANTING AREA

SHADED PARKING AREA (COVERED BY PV OR TREE CANOPIES) ISSUED FOR REV DATE

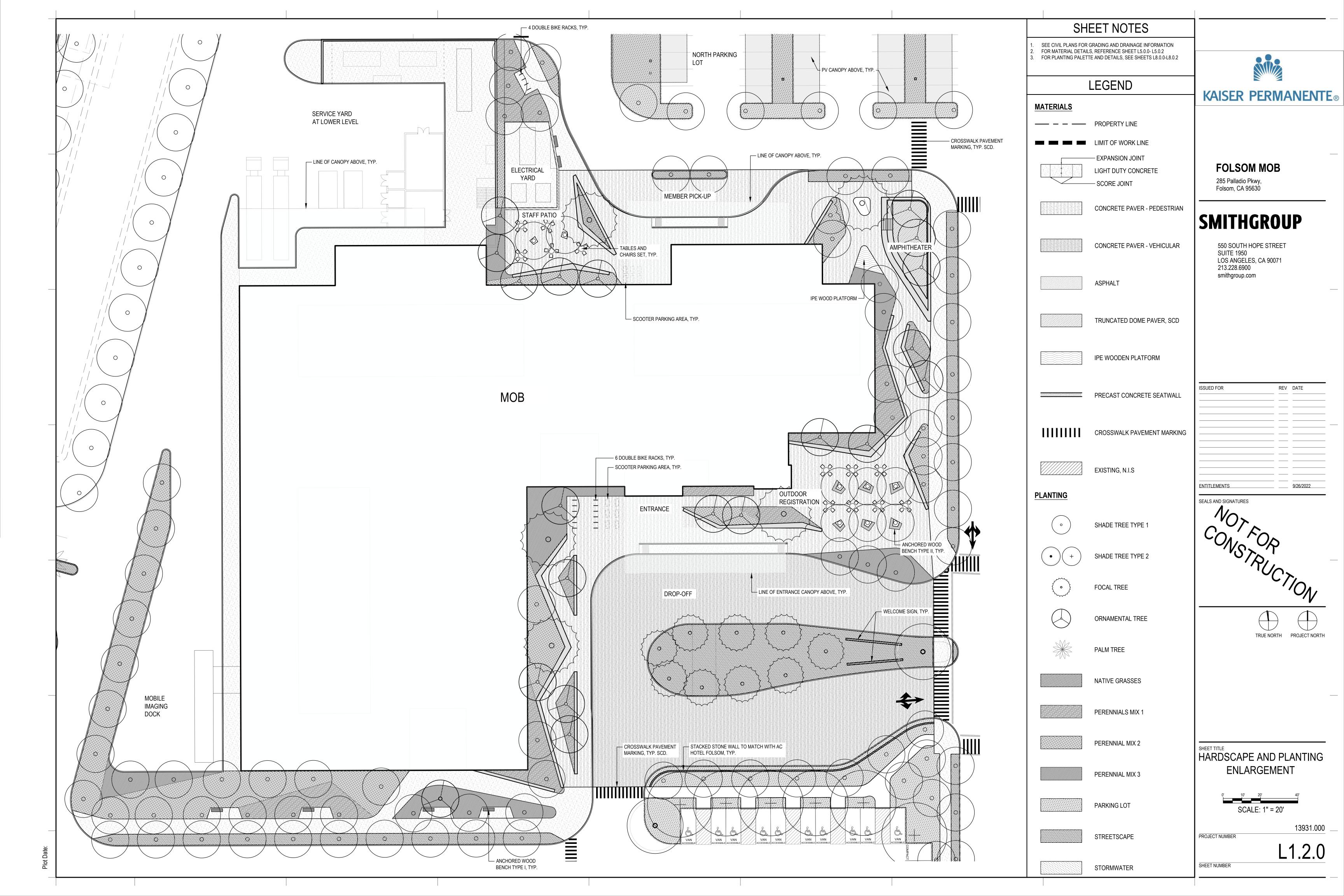
SEALS AND SIGNATURES

PROJECT NORTH

PARKING SHADE CALCULATION

PROJECT NUMBER

SHEET NUMBER





PAVER



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REV DATE



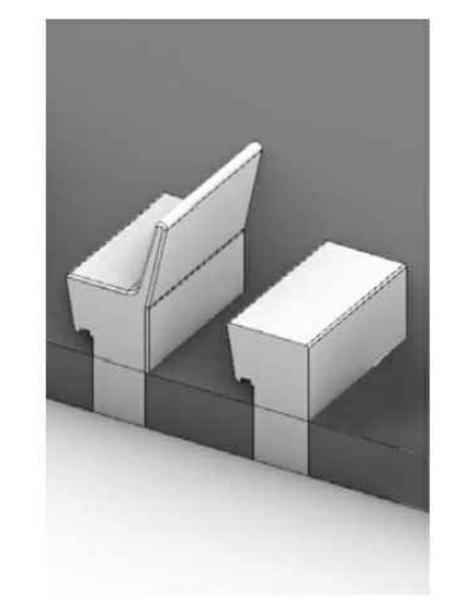
MANUFACTURER: STEPSTONE SIZE: 12"X12"

MATERIAL: PRECAST CONCRETE COLOR: FEDERAL YELLOW



MATERIAL: CONCRETE MANUFACTURER: STEPSTONE SIZE: 8"x 24" COLOR: PORCELAIN AND FRENCH GRAY

CAFE TABLE



SEAT WALL

SEATWALL MODULES

MANUFACTURER: QCP OR EQUAL

BENCH TYPE I

MATERIAL: PRECAST CONCRETE COLOR & FINISH: TBD

MATERIAL: PIP CONCRETE WITH SAWCUT JOINTS
COLOR: INTEGRAL COLOR COLOR ADDITIVE MANUFACTURER: DAVIS COLOR OR EQUAL

LED LIGHT .

SEATWALL SECTION



MANUFACTURER: LANDSCAPE FORMS MODEL: PARC CENTRE TABLE



MANUFACTURER: LANDSCAPE FORMS MODEL: 21 CHAIR



ENTITLEMENTS

SEALS AND SIGNATURES

BIKE RACK

CHAIR



SEATWALL ELEVATION

MANUFACTURER: LANDSCAPE FORMS MODEL: METRO40 REST BENCH WITH BACK AND ARMS

MANUFACTURER: LANDSCAPE FORMS **MODEL:** LINK BENCH WITH BACK AND ARMS



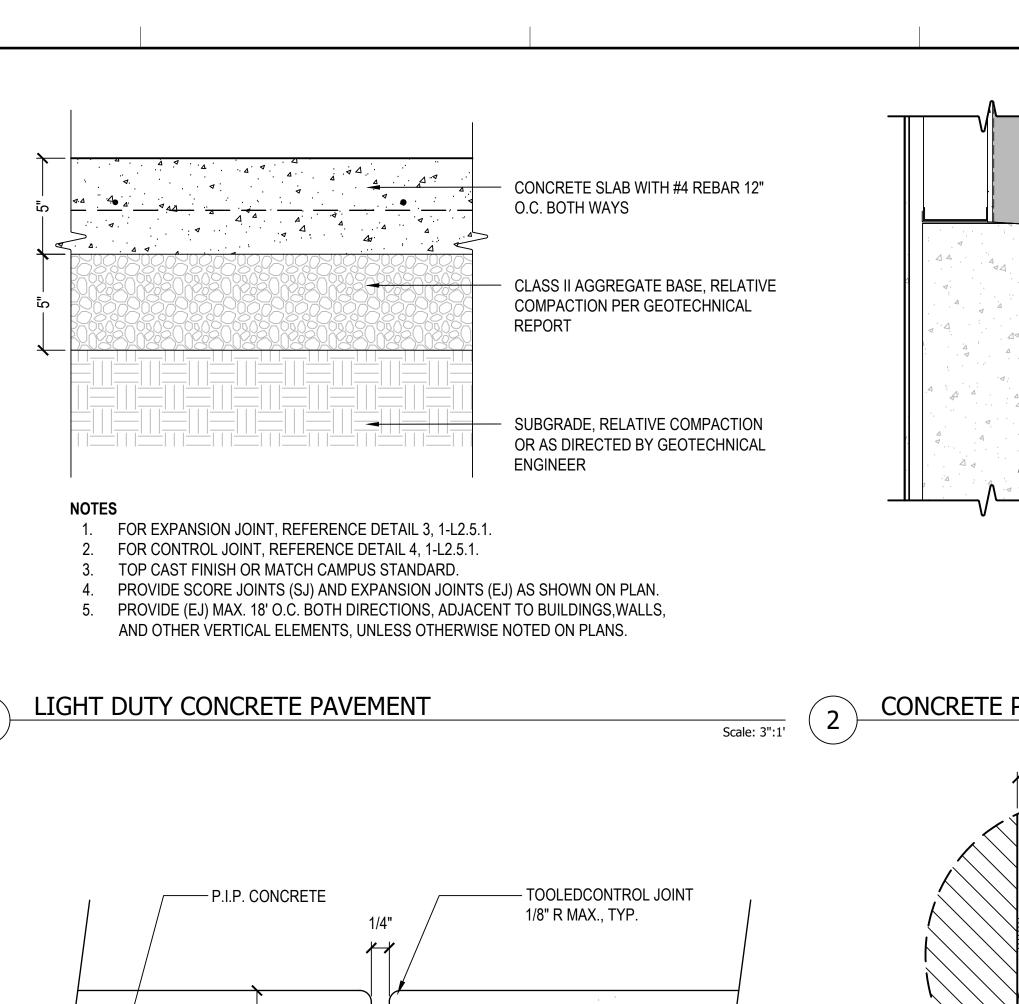
MANUFACTURER: LANDSCAPE FORMS MODEL: COLLECT COLOR: GRASS, BLACK AND BLUE BELL



MANUFACTURER: LANDSCAPE FORMS **MODEL:** BOLA BIKE RACK

13931.000 PROJECT NUMBER L5.0.0 SHEET NUMBER

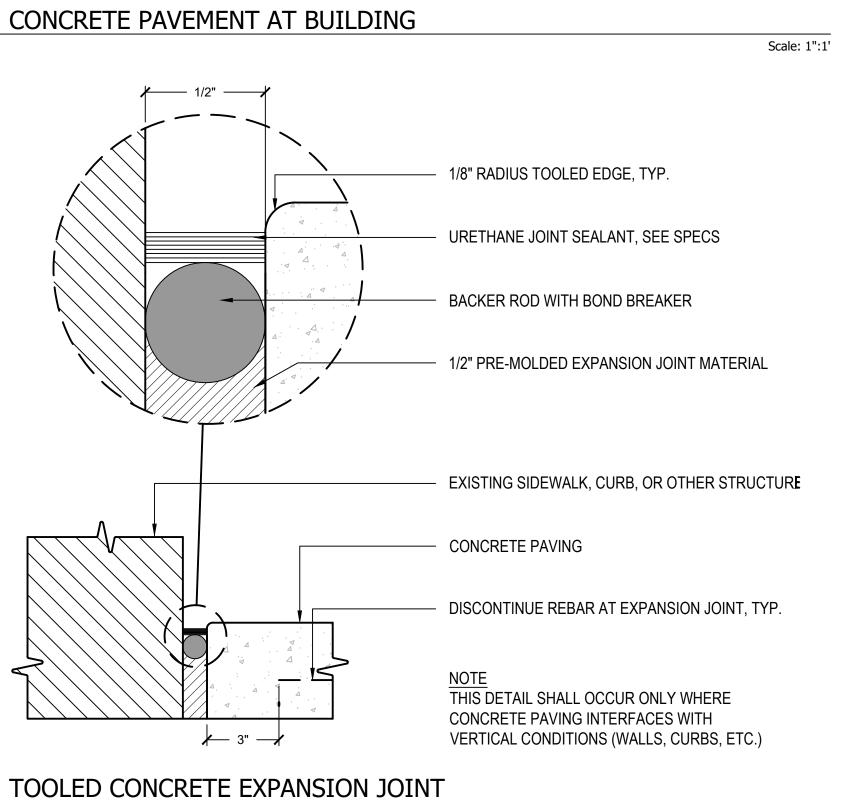
HARDSCAPE DETAILS



Scale: 3/4":1'

1/4 OF SLAB DEPTH

TOOLED CONCRETE PAVING SCORE JOINTS



BUILDING WALL, REFER TO

ARCHITECTURAL DRAWINGS

3/4" EXPANSION JOINT W/ #4

SMOOTH DOWEL, 12" LENGTH

@ 24" O.C., SLEEVE ONE END

EDGE AT FACE OF BUILDING

- AGGREGATE BASE

RECOMMENDATIONS

CONCRETE PAVEMENT, THICKEN

SELECT FILL PER GEOTECHNICAL

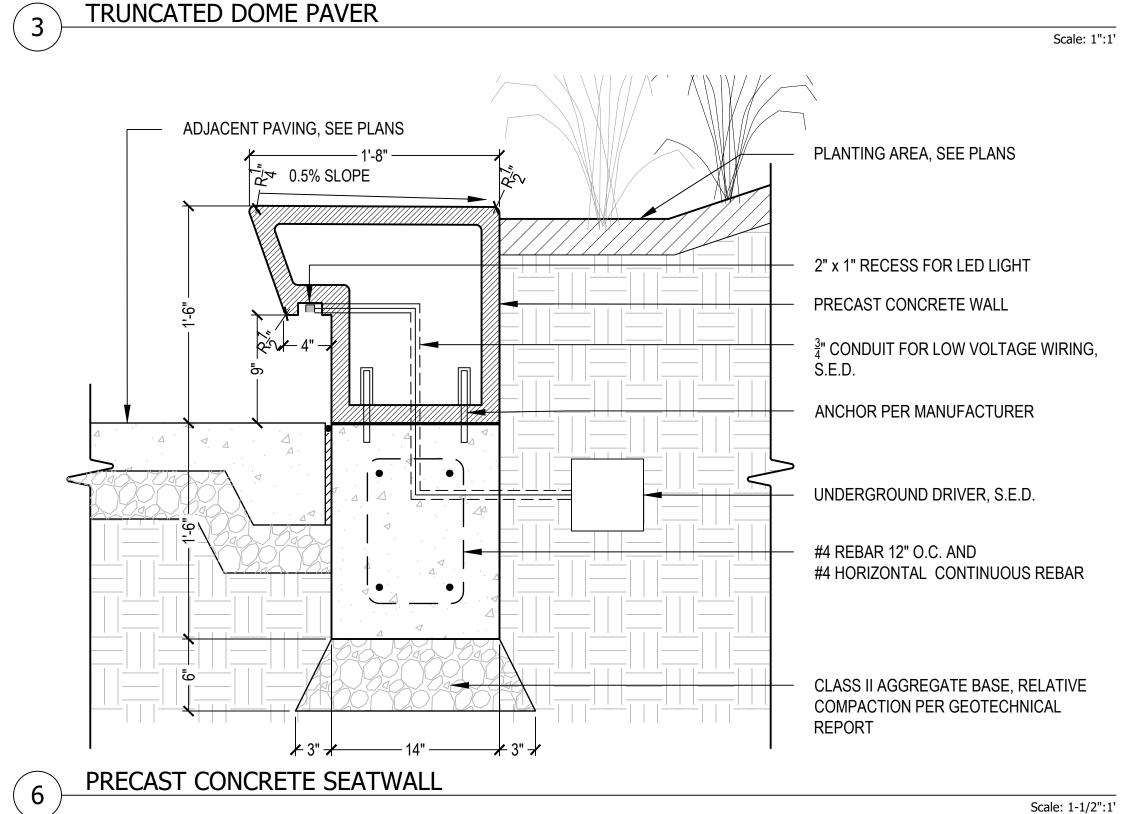
SUBGRADE, RELATIVE COMPACTION

PER GEOTECHNICAL REPORT

BUILDING FOUNDATION WALL,

STRUCTURAL DRAWINGS

REFER TO ARCHITECTURAL AND



- ALIGN JOINTS

CONCRETE PAVEMENT

PRECAST CONCRETE

TRUNCATED DOME PAVER

- 1" THICK MORTAR SETTING BED

CONDITION VARIES, SEE PLAN

2.30" - 2.40"

1. TRUNCATED DOMES MUST BE COLOR CONTRASTING TO ADJACENT PATH OF TRAVEL SURFACES,

2. COLOR: FEDERAL YELLOW AND APPROXIMATE TO FS 33538 OF FEDERAL STANDARD 595C.

4. SEE SPECIFICATIONS FOR TRUNCATED DOME PAVER PRODUCT INFORMATION.

3. REFER TO CIVIL DETAILS FOR CITY STANDARD CURB RAMP AND TRUNCATED DOME DETAILS.

AND THE RAISED DOMES MUST MEET THE DIMENSIONAL REQUIREMENTS OF CBC SECTION 11B-705.

PLAN VIEW



FOLSOM MOB 285 Palladio Pkwy,

Folsom, CA 95630

0.45" AT TOP 0.9" AT BASE

SECTION A-A'

ENLARGEMENT

SCALE: 3" = 1'-0"

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ENTITLEMENTS

9/26/2022

SEALS AND SIGNATURES

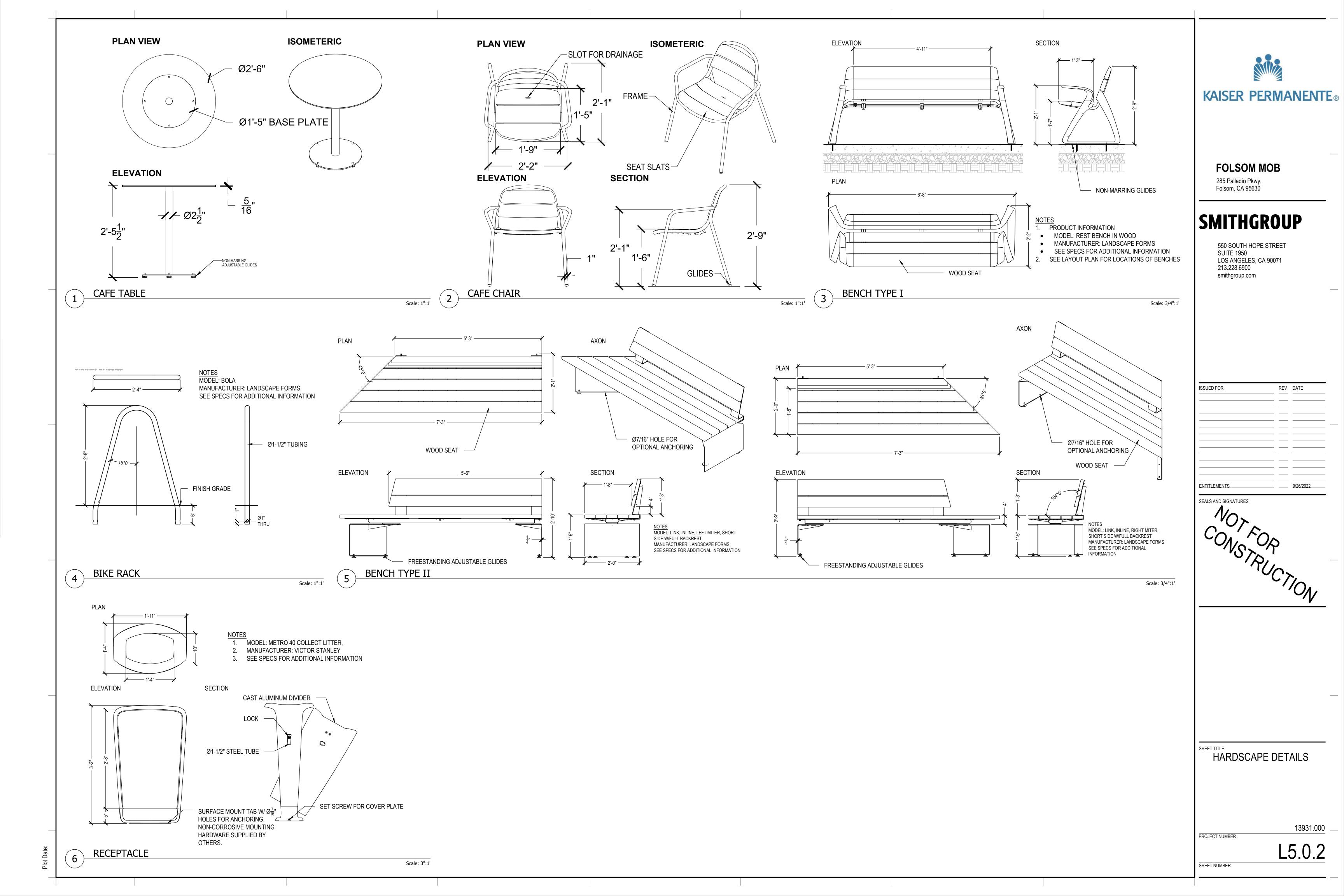
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REV DATE

HARDSCAPE DETAILS

SHEET NUMBER

 $\begin{array}{c} & 13931.000 \\ \hline \text{PROJECT NUMBER} \end{array}$



SHADE TREE TYPE 1



OLEA EUROPAEA OLIVE

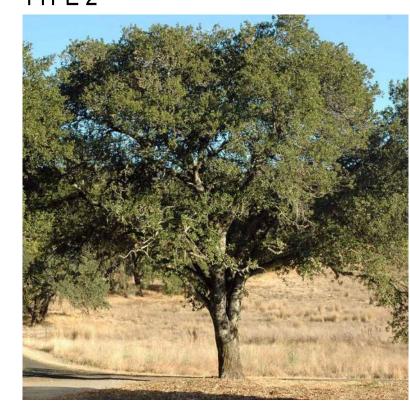


QUERCUS ILEX HOLLY OAK



SCHINUS MOLLE CALIFORNIA PEPPER TREE

SHADE TREE TYPE 2



QUERCUS AGRIFOLIA COAST LIVE OAK



LAURUS NOBILIS



RHUS LANCEA AFRICAN SUMAC

FOCAL TREE



PHOENIX CANARIENSIS CANARY ISLAND DATE PALM



PISTACIA CHINENSIS CHINESE PISTACHE



CHILOPSIS LINEARIS DESERT WILLOW

ORNAMENTAL



LAGERSTROEMIA SPP., HYBRID CRAPE MYRTLE



ARBUTUS UNEDO STRAWBERRY TREE



CERCIS OCCIDENTALIS
WESTERN REDBUD



PARKINSONIA 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE

NATIVE GRASSES



ARCTOSTAPYLOS 'EMERALD CARPET **CARPET MANZANITA**



ROSMARINUS OFFICINALIS ROSEMARY



LOMANDRA LONGIFOLIA 'LOMLON' LIME TUFF DWARF MAT RUSH





PLAZA



AGAVE AMERICANA **AGAVE**



FESTUCA GLAUCA **BLUE FESCUE**



LAVANDULA STOECHAS SPANISH LAVENDER



PHORMIUM TENAX
NEW ZEALAND FLAX



BOUTELOUA GRACILIS



HELICTOTRICHON SEMPERVIRENS



ANIGOZANTHOS FLAVIDUS



PARKING LOT + STREETSCAPE



CISTUS SPP. ROCKROSE

STORMWATER



JUNIPERUS CHINENSIS GOLD COAST GOLD COAST JUNIPER



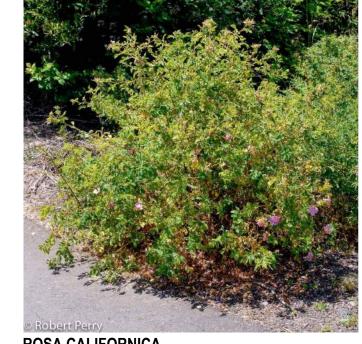
NERIUM OLEANDER OLEANDER



CHONDROPETALUM TECTORUM CAPE REED



IRIS DOUGLASIANA DOUGLAS IRIS



ROSA CALIFORNICA CALIFORNIA WILD ROSE



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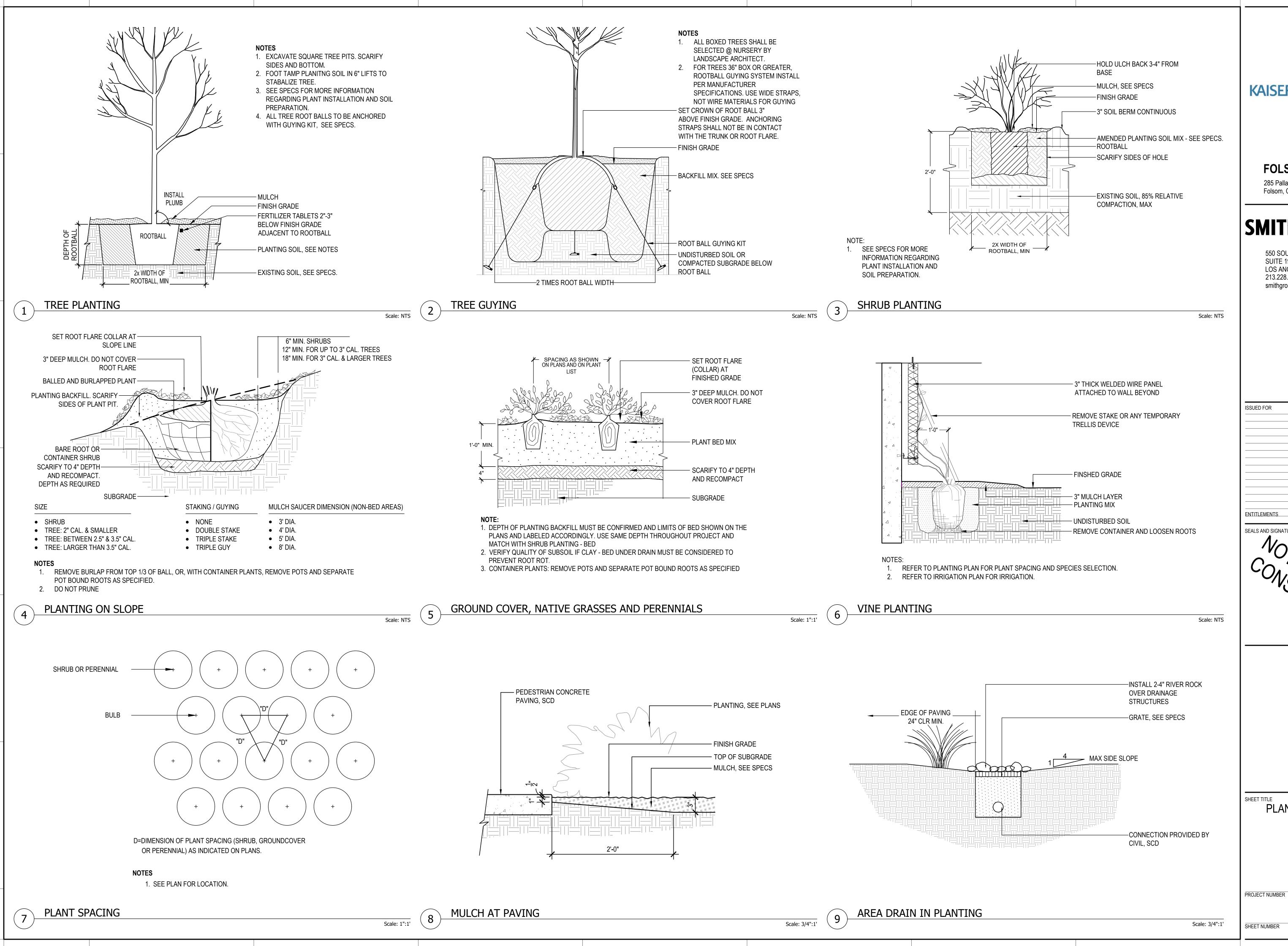
SEALS AND SIGNATURES



PRELIMINARY PLANT PALETTE

13931.000 PROJECT NUMBER

L8.0.0 SHEET NUMBER



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REV DATE ENTITLEMENTS

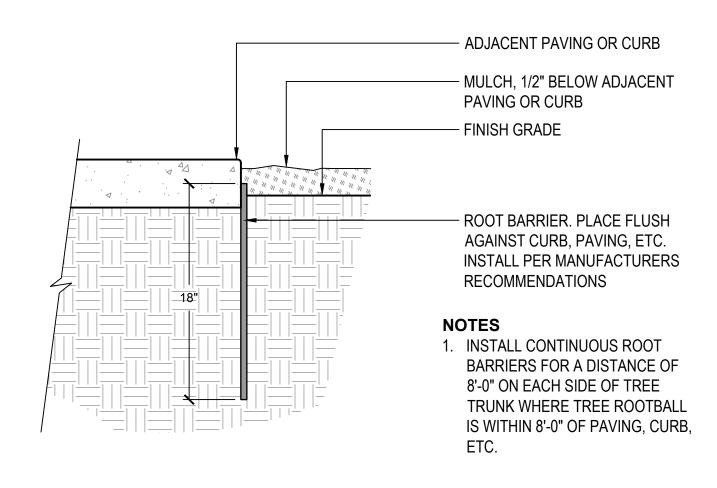
SEALS AND SIGNATURES



PLANTING DETAILS

13931.000

L8.0.1



ROOT BARRIER

Scale: 1":1'

TREES

SHADE TREE TYPE 1	

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
		OLEA EUROPAEA	OLIVE	36" BOX	VL	20'-35'	20'-35'
	680	QUERCUS ILEX	HOLLY OAK	36" BOX	L	30'-60'	30'-60'
		SCHINUS MOLLE	CALIFORNIA PEPPER TREE	36" BOX	VL	25'-40'	25'-40'

SHADE TREE TYPE 2							
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
•		QUERCUS AGRIFOLIA	COAST LIVE OAK	48" BOX	VL	35'-75'	35'-50'
+	312	LAURUS NOBILIS	SWEET BAY	48" BOX	L	15'-40'	15'-40'
		RHUS LANCEA	AFRICAN SUMAC	36" BOX	L	20'-30'	20'-35'

FOCAL TREE							
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
7		PISTACIA CHINENSIS	CHINESE PISTACHE	36" BOX	L	30'-40'	30'-40'
\	39	CHILOPSIS LINEARIS	DESERT WILLOW	36" BOX	VL	15'-30'	10'-20'

ORNAMENTAL TREE							
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
		LAGERSTROEMIA SPP., HYBRID	CRAPE MYRTLE	36" BOX	L	6'-30'	6'-15'
	20	ARBUTUS UNEDO	STRAWBERRY TREE	36" BOX	L	10'-20'	10'-20'
	20	CERCIS OCCIDENTALIS	WESTERN REDBUD	36" BOX	VL	10'-20'	8'-12'
		PARKINSONIA 'DESERT MUSEUM'	DESERT MUSEUM PALO VERDE	36" BOX	VL	20'-35'	20'-35'

PALM TREE							
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
	F.4	WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	36" BOX	М	70'-100'	8'-10'
	51	IPHOENIX CANARIENSIS	CANARY ISLAND DATE PALM	36" BOX	L	40'-60'	20'-40'

SHRUBS AND GROUNDCOVER

NATIVE GRASSES

L								
	SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
8			ARCTOSTAPYLOS 'EMERALD CARPET	CARPET MANZANITA	5 GAL	VL	1'	3'-6'
8		114,025 SQFT	ROSMARINUS OFFICINALIS	ROSEMARY	5 GAL	L	1'	3'-6'
				LIME TUFF DWARF MAT RUSH	5 GAL	L	3'	3'
			MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	L	3'	3'

PLAZA							
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
		AGAVE AMERICANA	AGAVE	5 GAL	VL	1'-4'	1'-4'
		FESTUCA GLAUCA	BLUE FESCUE	5 GAL	L	2'	2'
		LAVANDULA STOECHAS	SPANISH LAVENDER	5 GAL	VL	1'-4'	2'-5'
		PHORMIUM TENAX	NEW ZEALAND FLAX	5 GAL	L	6'-8'	6'-8'
	15,550 SQFT	BOUTELOUA GRACILIS	BLUE GRAMA	5 GAL	L	2'	2'
		HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	5 GAL	L	2'	2'
		ANIGOZANTHOS FLAVIDUS	KANGAROO PAW	5 GAL	L	2'-3'	2'-6'
		ALOE 'BLUE ELF'	BLUE ELF ALOE	5 GAL	L	2'	2'

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD
		CISTUS SPP.	ROCKROSE	5 GAL	L	4'-6'	4'-6'
	296,788 SQFT	JUNIPERUS CHINENSIS GOLD COAST	GOLD COAST JUNIPER	5 GAL	L	3'-4'	3'-4'
		NERIUM OLEANDER	OLEANDER	5 GAL	L	6'-10'	8'-15'

STORMWATER										
SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	WATER USE	HEIGHT	SPREAD			
		CHONDROPETALUM TECTORUM	CAPE REED	5 GAL	L	3'-4'	3'-4'			
	50,142 SQFT	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	L	1'-2'	2'-3'			
		ROSA CALIFORNICA	CALIFORNIA WILD ROSE	5 GAL	L	1'-2'	1'-2'			

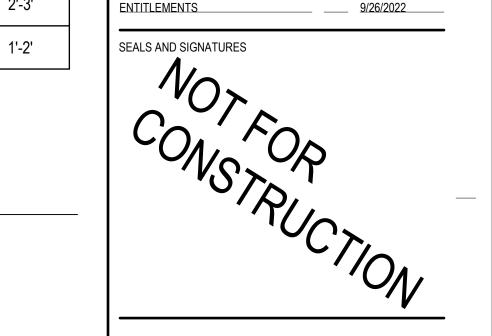


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SUED FOR	REV	DATE
ENTITLEMENTS		9/26/2022



SHEET TITLE PLANTING DETAILS

PROJECT NUMBER

SHEET NUMBER

L8.0.2

13931.000

PLANTING SCHEDULE

		<u>. </u>					
SYMBOL MFR.			DETAIL	SYMBOL	'	MODEL NO. / DESCRIPTION	DETAIL
SHRUB SUBS	SURFACE DRIP IRRIGATION	<u>PS</u>	<u>SI</u>	IRRIGA	ATION COI	NTROLLER AND RELATED EQUIPMENT	
NETAFIN	SUB-SURFACE DRIP TUBING WITH CHECK TUBING ROWS MAXIMUM OF 16" APART IN CONTRACTOR SHALL DETERMINE ACTUAL PLANTER. EACH AND EVERY SHRUB SHA TIGHTLY SPACED GROUNDCOVER WILL IN PLANTINGS, INSTALL DRIP TUBING ON BO SHALL BE INSTALLED 6" BELOW FINISH S TDS-050, INSTALLED FOUR FEET O.C. (JU TIME). CONTRACTOR SHALL FIELD VERIF	VALVE, MODEL TLHCVXR5-18 W/ .53 GPH EMITTERS, 18" ON CENTER. INSTALL N SHRUB AREAS. FOR LARGE SLOPES, INSTALL PARALLEL TO SLOPE AT ALL TIMES. ALL ROW SPACING IN THE FIELD AFTER REVIEW OF PLANT SPACING FOR EACH LL RECEIVE WATER FROM A MINIMUM OF TWO INLINE EMITTERS. AREAS OF REQUIRE CLOSER ROW SPACING. FOR ANY 'SINGLE' OR' DOUBLE' ROW TYPE OTH SIDES OF THE SHRUB ROW TO IRRIGATE SHRUBS ON EACH SIDE. ALL TUBING OIL GRADE ANCHORED WITH RAIN BIRD 9" GALVANIZED WIRE STAKES, MODEL ITE MESH OR OTHER STEEL 'U' STAKES SHALL NOT BE USED OR INSTALLED AT ANY BY PRIOR TO STARTING WORK AND BEFORE BACKFILLING THAT FINAL LAYOUT AND TER TO ALL PLANTS. CONTACT NETAFIM REPRESENTATIVE, ALLISTER COONEY,	L9.2.5/A,B; L9.2.6/A,B,C,E; L9.2.7/A; L9.2.8/B,F		SITE ONE	PEDESTAL CONTROLLER ASSEMBLY: (A) SA1-WT5-H2096/ETECXL+OFS96-5Y/GTF3-150-ER-NC/RSE/WT2W-H2OSA-9/ PED18SS/EMP18/EV-CAB-SEN-100'/WT2W-H2O1VD-91/GRP-3-9/GRPA/CAB-14-Y(CONTRACTOR SHALL SUBMIT QUALITY TO SITEONE DURING ORDER) ASSEMBLY TO INCLUDE ONE 96 STATION CONTROLLER WITH ONE 1.5" HYDROMETER, FLOW MANAGEMENT KEY, V.I.T. MOUNTING PAD, 12" PEDESTAL EXTENSION AND FIVE YEAR CELLULAR PLAN. ASSEMBLY 'A' WITH 91 DECODERS, 9 DECODER SURGE PROTECTION KITS, 100' OF FLOW SENSOR CABLE, 9 SURGE DECODER GROUNDING KIT, AND 1 CONTROLLER GROUNDING KIT. CONTRACTOR SHALL SET UP CELLULAR MODEM WITH 5-YR CELLULAR PLAN FOR WEATHERTRAC WEB-BASED 'DATA SERVICE PLAN' CENTRAL INTERNET MANAGEMENT. CONTROLLER PEDESTAL SHALL BE MOUNTED ON A V.I.T. 'QUICKPAD' BASE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROLLER SET UP REQUIREMENTS TO OPERATE THE CENTRAL CONTROL DATA TRANSFER USING CELLULAR PHONE SERVICE. CONTRACTOR SHALL	L9.2.3/B
NO SYMBOL RAIN BII	RAIN BIRD XFD-TFA-075, MDCFEL, MDCF1	TEE W/ MDCF75FPT, OR XXF-TMA-0F0 WITH 1/2" TT COUPLER. UPPLY OR EXHAUST HEADER PIPE AND DRIPLINE TUBING: RAIN BIRD	L9.2.6/A,B,C,E; L9.2.7/B,C; L9.2.8/C			ASSIST OWNER WITH THE WEATHERTRAC 2 DOWNLOADABLE SOFTWARE APP FOR MOBILE PHONE. CONTRACTOR SHALL VERIFY EXACT CONTROLLER LOCATION WITH OWNER'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION. VERIFY ROUTING OF ELECTRICAL CONDUCTORS WITHIN CONDUIT TO THE CONTROLLER LOCATION WITH THE ELECTRICAL CONTRACTOR. DUE TO THE PROPOSED LOCATION OF THE CONTROLLER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL EQUIPMENT AS MAY BE NECESSARY FOR THE	
NO SYMBOL RAIN BIF	XF INSERT CROSS FITTING.		L9.2.6/A,B,C,E; L9.2.7/B,C; L9.2.8/B			OPERATION OF WEB-BASED SOFTWARE PROGRAMMING WITHOUT COMPLICATION. CONTACT SITE-ONE REPRESENTATIVE ERIK ANDERSON, (949) 285-4048, FOR ASSEMBLY ORDERING AND PROGRAMMING. ALSO FOR PROGRAMMING AND OPERATION OF THE WEATHERTRAC 'OPTI-F' FLOW MANAGEMENT FEATURE, REQUIRED FOR FLOW ZONES SEPARATION.	
NO SYMBOL RAIN BIF	12" ROW SPACING AS REQUIRED) FOR AL FLOWS UP TO 5 GPM. FOR 18" EMITTER S	CONTRACTOR MAY USE RAIN BIRD'S COILED POLY DRIPLINE 'QF' HEADER (18" OR LE DRIP ZONE HEADERS AND FOOTERS AS NEEDED. USE 3/4" PRODUCT FOR AREA SPACING USE MODEL XQF07518100, FOR 12" EMITTER SPACING USE MODEL EA FLOWS 6 GPM TO 15 GPM. FOR 18" EMITTER SPACING USE MODEL XQF1018100,	L9.2.5/A,B; L9.2.8/F	NO SYMBO	L SITEONE	V.I.T. 'QUICK-PAD' CONTROLLER PEDESTAL MOUNTING PAD, MODEL EMP-18, AS PART OF CONTROLLER ASSEMBLY PACKAGE.	L9.2.3/B
		(QF1012100 . NO TIGHT BENDING OF QF DRIPLINE HEADER IS ALLOWED.		RS	SITE ONE	WIRED RAIN SENSOR, AS PART CONTROLLER ASSEMBLY PACKAGE.	L9.2.3/B
	90 ELL INSERT X INSERT (3/4" 1406-007) / COUPLING INSERT X INSERT (3/4" 1429-00	(1" 1406-010); MALE ADAPTER MIPT X INSERT (3/4" 1436-007) / (1" 1436-010); 07) / (1" 1429-010); INSERT ADAPTER INSERT X SOC (3/4" 474-007) / (1" 474-010); 460-007) / (1" 460-010) FOR USE WITH PVC SOC FITTINGS; TEE INSERT X INSERT X		NO SYMBO	L SITE ONE	ETEC-5YR WEATHERTRAK ET EVERYWHERE WEATHER UPDATE SERVICE (FIVE-YEAR SERVICE SUBSCRIPTION), AS PART OF EACH CONTROLLER ASSEMBLY PACKAGE. AFTER ACTIVATION CONTRACTOR SHALL TURN OVER TO OWNER'S AUTHORIZED REPRESENTATIVE ALL PAPERWORK, DOCUMENTS, ACCESS CODES, ETC.	N/A
*NOTE: THE	IDEAL STAINLESS STEEL CLAMP (MURRAY OR A. FOR ALL AREAS INSTALL PERIMETER	OETIKER TYPE) IS REQUIRED ON ALL INSERT FITTING CONNECTIONS. R TUBING MAXIMUM 9" FROM PERIMETER EDGE FOR GROUNDCOVER AREAS OR PARALLEL TO SLOPE AT ALL TIMES. CONTRACTOR SHALL DETERMINE MINIMUM		NO SYMBO	L SITE ONE	CONTROLLER CERTIFICATION; SITE ONE TECHNICIAN SHALL REVIEW CONTROLLER AND HYDROMETER INSTALLATION. ALSO SHALL REVIEW AND CONFIRM AS PART OF EACH CONTROLLER ASSEMBLY PACKAGE. AFTER ACTIVATION CONTRACTOR SHALL TURN OVER TO OWNER'S AUTHORIZED REPRESENTATIVE ALL PAPERWORK, DOCUMENTS, ACCESS CODES, ETC.	N/A
	ROW SPACING IN THE FIELD AFTER I RECEIVE WATER FROM A MINIMUM O REQUIRE CLOSER ROW SPACING. FO	REVIEW OF PLANT SPACING FOR EACH PLANTER. EACH AND EVERY SHRUB SHALL OF TWO INLINE EMITTERS. AREAS OF TIGHTLY SPACED GROUNDCOVER WILL OR ANY 'SINGLE' OR' DOUBLE' ROW TYPE PLANTINGS, INSTALL DRIP TUBING ON O IRRIGATE SHRUBS ON EITHER SIDE. DUE TO SOIL STRATA DIFFERENCES AND		NO SYMBO	L SITEONE	SINGLE RCV DECODER: MODEL WT2W-H2O1V <i>D</i> . INSTALL AT RCV LOCATIONS. CONNECT TO CONTROLLER VIA 2-WIRE CABLE. LINE SURGE PROTECTION DECODER: MODEL WT2W-H2OSA, CONNECT TO 2-WIRE CABLE. SEE SYSTEM SURGE PROTECTION GROUNDING.	L9.2.9/A,D; L9.2.10/A,B,C,E,F
		OR SHALL FIELD VERIFY PRIOR TO STARTING WORK AND BEFORE BACKFILLING SPACING WILL PROVIDE ADEQUATE WATER TO ALL PLANTS.		NO SYMBO	L SITE ONE	2-WIRE DECODER CABLE, MODEL CAB-14-Y; #14 GAUGE AS PART OF CONTROLLER ASSEMBLY. INSTALL ALL CABLE WITHIN 1-1/4" ELECTRICAL CONDUIT. CONNECT TO CONTROLLER PER MANUFACTURER'S SPECIFICATIONS.	L9.2.9/A,D; L9.2.10/A,B,C,D,F
		OW AND ROUTE, PARALLEL TO GRADE, ANY INLINE DRIP TUBING LAYOUT. ALWAYS SLOPE. DO NOT FOLLOW DIRECTIONAL LAYOUT AS SHOWN IN THE PLANS. HATCH REAS ARE DIAGRAMMATICAL ONLY.		(S)	AS APRVD	2-WIRE DECODER CABLE GROUNDING: CONTRACTOR SHALL GROUND PER MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN PER LOCAL AND NATIONAL ELECTRICAL CODE. USE SYSTEM SURGE PROTECTION AT A MAXIMUM OF 450-475 FEET APART ALONG ENTIRE LENGTH OF 2-WIRE CABLE, AT THE ENDS OF THE 2-WIRE CABLE RUN AND AT THE END OF ANY CABLE RUN OFF-SHOOT LEG LONGER THAN 50' FROM MAIN 2-WIRE CABLE RUN.	L9.2.9/A,D; L9.2.10/B,D,F
	TRIANGULAR WETTING PATTERN AC INSTALLING TUBING TO CREATE A TI	ON SLOPE THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A ROSS ANY SLOPE. OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN RIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING LY IN LINE (PERPENDICULAR) WITH EACH OTHER.				SEE PLAN FOR APPROXIMATE LOCATIONS. CONTACT SITEONE REPRESENTATIVE ERIC ANDERSON, (949) 285-4048, FOR ADDITIONAL INFORMATION. GROUND WIRE TO GROUND ROD/PLATE CONNECTION SHALL BE BY CADWELD 'ONE-SHOT' PROCESS ONLY. USE OF GROUNDING CLAMPS IS NOT AN ACCEPTABLE INSTALLATION. MAXIMUM RESISTANCE SHALL BE NO MORE THAN 10 OHMS. CONTRACTOR SHALL PROVIDE PROOF OF MEASURED RESISTANCE TO OWNER'S AUTHORIZED REPRESENTATIVE BEFORE MAINTENANCE PERIOD BEGINS.	
F SPEARS	PRODUCTS (ARROWHEAD BRASS) BRASS WITH STANDARD GARDEN HOSE, INSTAL EVERY PIPE RUN IN EACH DIRECTION. M	Y 1/2" PVC THREADED BALL VALVE, MODEL 2621-005G, WITH CHAMPION IRRIGATION S HOSE-TO-PIPE THREAD INSERT ADAPTER, MODEL #10F, FOR FLUSHING PVC PIPE L FLUSH VALVE INSIDE 7" ROUND VALVE BOX, ONE AT THE END OF EACH AND ULTIPLE FLUSH VALVES MAY BE REQUIRED WITHIN DRIP ZONE. CONTRACTOR I VALVES REQUIRED. WHEN POSSIBLE INSTALL VALVE 18" FROM PAVING FOR EASE	L9.2.5/A,B; L9.2.6/A,B,C,D,E; L9.2.8/F	NO SYMBO	L AS APRVD	CONTROLLER GROUNDING: CONTRACTOR SHALL GROUND CONTROLLER PER MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN PER LOCAL AND NATIONAL ELECTRICAL CODE. GROUND WIRE/ROD CONNECTION SHALL BE BY CADWELD PROCESS ONLY, CLAMPS ARE NOT AN ACCEPTABLE SUBSTITUTE. MAXIMUM RESISTANCE SHALL BE 10 OHMS OR LESS. CONTRACTOR SHALL PROVIDE PROOF OF MEASURED RESISTANCE TO OWNER'S AUTHORIZED REPRESENTATIVE BEFORE MAINTENANCE PERIOD BEGINS AND INCLUDE DOCUMENT WITHIN SUBMITTED OPERATIONS AND MAINTENANCE MANUAL.	L9.2.3/B,D
NO SYMBOL HUNTEF	AND EVERY PLANTER WITHIN A ZONE. FO	YELLOW STEM INDICATES ZONE IS IN OPERATION. INSTALL ONE UNIT WITHIN EACH OR TREE ZONES INSTALL AT END OF ZONE RUN IN EACH DIRECTION. ATTACH TO . INSTALL UNIT AT HIGH POINT OF EACH PLANTER OR USE HUNTER'S MANUALLY	L9.2.2/E; L9.2.5/A,B; L9.2.6/A,B,C,E	NO SYMBO	L SITEONE	CONTROLLER GROUNDING EQUIPMENT SHALL INCLUDE: MODEL GRPA; ONE GROUND PLATE 4"X36", AND ONE GROUND ROD 5/8"X8' (WITH CADWELD) AND TWO BAGS OF GROUND ENHANCEMENT EARTH CONTACT BACKFILL MATERIAL (HARDENING) AMOUNT AS NEEDED TO COMPLETELY ENCASE PLATE AND ROD, CADWELD 'ONE-SHOT' CONNECTION SYSTEM FOR ROD AND WIRE.	L9.2.3/B,D
NO SYMBOL NETAFIN	PLANTER WITHIN A ZONE. INSTALL UNIT	DRIPLINE SYSTEMS. INSTALL MINIMUM OF ONE UNIT WITHIN EACH AND EVERY AT ALL HIGH POINTS OF EACH PLANTER. ATTACH TO POLY TUBING VIA INSERT VIA PVC FITTINGS. CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT TO ANTITY OF ARV'S TO INSTALL IN DRIP ZONE.	L9.2.5/A,B; L9.2.6/A,B,C,E; L9.2.8/D,E,F	NO 074420		DECODER GROUNDING EQUIPMENT: MODEL GRP-3; ONE GROUND PLATE 4"X36" (WITH CADWELD) AND ONE BAG OF GROUND ENHANCEMENT EARTH CONTACT BACKFILL MATERIAL (HARDENING) AMOUNT AS NEEDED TO COMPLETELY ENCASE PLATE. CADWELD 'ONE-SHOT' CONNECTION SYSTEM FOR ROD AND WIRE.	
DOINT COUD				NO STIMBO	L RAIN BIRD	PULL BOX, STANDARD RECTANGULAR SIZE, MODEL VB-STD, FOR ALL 2-WIRE CABLE SPLICES AND LOCATE AT TWO HUNDRED LINEAR FEET (200') ALONG CABLE ROUTE WHEN RCV BOX IS NOT AVAILABLE. ALSO AT ALL CABLE ROUTING CHANGE-OF-DIRECTION. LOOP 2-WIRE CABLE MIN. 36" TO PULL OUTSIDE OF BOX. LABEL LID '2W CABLE'.	L9.2.4/B
	OF ROOTBALL. INSTALL ON RAIN BIRDPF	PSI 3-(10)(20)-1032 SERIES EMISSION DEVICES DIRECTLY ADJACENT TO EDGE R/FRA12/ OR FRA/24 PRE-ASSEMBLED POLYFLEX RISER ADAPTER. CUT AYS INSTALL ON UPHILL SIDE OF SHRUB. GRAVITY FLOW SHALL TRAVEL	L9.2.9/B,C,E	EL	BY OTHERS	117 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED BY A DEDICATED BREAKER FROM THE POWER SOURCE.	N/A
	SHRUB DRIP EMITTER TABLE PLANT SIZE # OF EMITTERS 1 GALLON SHRUB 1 - 2 GPH 5 GALLON SHRUB 1 - 2 GPH			NO SYMBO	L N/A	DUE TO POSSIBLE UNFORESEEN CHANGES IN THE FIELD IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONDUITS, SLEEVES, AND WIRE ROUTING WITH GENERAL CONTRACTOR AND ANY AFFECTED ON-SITE TRADES AS REQUIRED THROUGHOUT PROJECT.	N/A
F SPEARS		│ Y 1/2" PVC THREADED BALL VALVE, MODEL 2621-005G, WITH CHAMPION RASS) BRASS HOSE-TO-PIPE THREAD INSERT ADAPTER, MODEL #10F,	L9.2.6/D; L9.2.9/E	IRRIGA	ATION FER	RTIGATION ASSEMBLY	
	FOR FLUSHING PVC EXHAUST MANIFOLD ROUND VALVE BOX, ONE AT THE END OF VALVES MAY BE REQUIRED WITHIN DRIP	PIPE WITH STANDARD GARDEN HOSE. INSTALL FLUSH VALVE INSIDE 7" EACH AND EVERY PIPE RUN IN EACH DIRECTION. MULTIPLE FLUSH ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLUSH VALVES LL FLUSH VALVES REQUIRED FOR A PARTICULAR AREA. INSTALL FINAL			EZO FLO	AUTOMATIC FERTILIZER INJECTOR SYSTEM, MODEL EZ-010-FX (10 GALLON CAPACITY)INSTALL PER MANUFACTURERS RECOMMENDATIONS WITH EZ FLOW MAINLINE CONNECTOR FITTING, MODEL CBV-X00 REQUIRED FOR CONNECTION TO MAINLINE WITHIN A MAXI-JUMBO VALVE BOX, MODEL VB-MAXH WITH LID. CONTACT EZ FLO MANUFACTURER'S REPRESENTATIVE, STEVE KIM, GENTILE & ASSOCIATES, (760) 214-5734 FOR SALES)
NO SYMBOL HUNTER	AND EVERY PLANTER WITHIN A ZONE. FO	YELLOW STEM INDICATES ZONE IS IN OPERATION. INSTALL ONE UNIT WITHIN EACH OR TREE ZONES INSTALL AT END OF ZONE RUN IN EACH DIRECTION. ATTACH TO . INSTALL UNIT AT HIGH POINT OF EACH PLANTER OR USE HUNTER'S MANUALLY	L9.2.2/E; L9.2.9/E			INSTALLATION, AND CALIBRATION INFORMATION. CONTRACTOR SHALL CALIBRATE UNIT TO PROVIDE OPTIMAL FERTILIZED BASED ON WATERING FREQUENCY. FOR FUTURE MAINTENANCE INCLUDING DESIRED FILL FREQUENCY, THE PREFERE SETTING SHALL BE 8000:1 RATIO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SOLUBLE FERTILIZER N-P-I TO BE USED FOR TURFGRASS AND SHRUBS BASED ON INFORMATION GIVEN FROM THE EZ FLO REPRESENTATIVE.	RED
IRRIGATION V	/ALVE IDENTIFICATION	VALVE STATION / NUMBER					
TREES = TREE DRIF	URCE DRIP SYSTEMS	1" SLOPE					
	DRIP SYSTEMS ON SLOPE	VALVE SIZE					

-VALVE SIZE

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SEALS AND SIGNATURES

CONSTRUCTOR

CONSTRUCT

REV DATE

IRRIGATION LEGEND

13931.000 ROJECT NUMBER L9.0.0

SHEET NUMBER

SYMBOL	MFR.	MODEL NO. / DESCRIPTION	DETAIL
IRRIGAT	ΓΙΟΝ PIPI	E/SLEEVE	
	AS APRVD	PVC PIPE, SCH 40, 3/4" - 2", AS LATERAL LINES. 12" BELOW GRADE. SEE PLAN FOR SIZES	L9.2.1/D
NO SYMBOL	N/A	-DRIP MANIFOLD PIPE (HEADER/FOOTER): PVC PIPE, SCH 40. 12" BELOW GRADE. MINIMUM (HEADER/FOOTER) SIZES FOR DRIP ZONES USING TUBING WITH 18" O.C. EMITTER SPACING: USE 3/4" PIPE: UP TO 800' TOTAL SQ. FT. WITHIN ZONE, FOR INDIVIDUAL OR CONNECTED PLANTERS. (4 GPM MAX) USE 1" PIPE: 801'-1450' TOTAL SQ. FT. WITHIN ZONE, FOR INDIVIDUAL OR CONNECTED PLANTERS. (7 GPM MAX) USE 1-1/4" PIPE: 1451'-3100' TOTAL SQ. FT. WITHIN A ZONE, FOR INDIVIDUAL OR CONNECTED PLANTERS. (15 GPM MAX) USE 1-1/2" PIPE: 3101'-4100' TOTAL SQ. FT. WITHIN A ZONE, FOR INDIVIDUAL OR CONNECTED PLANTERS. (20 GPM MAX) USE 2" PIPE: 4101'-6200' TOTAL SQ. FT. WITHIN A ZONE, FOR INDIVIDUAL OR CONNECTED PLANTERS. (29 GPM MAX)	L9.2.1/D; L9.2.6/A,B,C,E
NO SYMBOL	AS APRVD	RAIN BIRD 'QF' DRIPLINE TUBING FOR DRIPLINE ZONES HEADER/FOOTER. MAY BE SUBSTITUTED FOR PVC PIPE, BURY 8" BELOW GRADE.	L9.2.5/A,B
	N/A	PVC LATERAL PIPE CONNECTION TO DRIPLINE ZONE HEADER/FOOTER MANIFOLD PIPE. CONTRACTOR TO PROVIDE NECESSARY FITTINGS TO CONNECT PVC PIPE TO POLY HEADER/FOOTER MANIFOLD PIPE AS REQUIRED.	N/A
	AS APRVD	PVC PIPE, SCH 40, 3/4" - 1-1/4", AS TREE ZONE LATERAL (THICK) LINES. 12" BELOW GRADE. SEE PLAN FOR SIZES.	L9.2.1/D
	AS APRVD	PVC PIPE, SCH 40, 2" OR SMALLER, AS MAINLINES, 18" BELOW GRADE. SEE PLAN FOR SIZES. PVC PIPE, CL250, BELL AND GASKET, 2-1/2"-3", AS MAINLINES, 18" (2-1/2") TO 24" (3") BELOW GRADE. SEE PLAN FOR SIZES. USE LEEMCO JOINT RESTRAINTS, AS REQUIRED FOR ALL 'CHANGES OF DIRECTION', FOR 2-1/2" AND LARGER PIPE.	L9.2.1/D; L9.2.7/F
— PD —	AS APRVD	PVC PIPE, SCH 40, 1/2" - 11/2", AS BURIED LATERAL LINES FOR POINT SOURCE DRIP SYSTEMS. DEPTH SHALL BE MINIMUM OF 8" OF SOIL COVER (BELOW GRADE). SEE PLAN FOR SIZES.	L9.2.1/D; L9.2.9/E
	AS APRVD	PIPE AND WIRE SLEEVES, SCH 40 PVC PIPE, MINIMUM TWICE THE DIAMETER OF PIPE CARRIED AND MINIMUM 1-1/4" PIPE FOR WIRE CARRIED. PLACE BELOW ALL PAVING, SIDEWALKS, HARDSCAPE, ETC, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL SLEEVES NOT SHOWN ON PLAN FOR DRAWING CLARITY. 6" MAINLINE AND 3" WIRE SLEEVES AT ROAD CROSSINGS INSTALLED BY OTHERS. IRRIGATION CONTRACTOR SHALL VERIFY THE EXACT TERMINUS LOCATIONS, DEPTH, AND SIZES WITH GENERAL CONTRACTOR BEFORE COMMENCING WORK.	L9.2.1/D
IRRIGAT	P.O.C.	LITIES CONNECTION TO 2" POTABLE WATER METER WITH 2" SERVICE LINE. CONTRACTOR SHALL SUPPLY ALL HARDWARE AND FITTINGS REQUIRED TO CONNECT IRRIGATION MAINLINE TO METER. CONTRACTOR SHALL VERIFY METER	N/A
_		LOCATION, SIZE, SERVICE LINE SIZE, AND STATIC WATER PRESSURE BEFORE COMMENCING WORK.	
(RP)	FEBCO	2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY: MODEL 825YA, INSTALL WITH WYE STRAINER #650A. INSTALL CENTERED ON A 30"X36"X4" POURED-IN-PLACE CONCRETE PAD. UNIT TO BE INSTALLED WITHIN V.I.T. STAINLESS STEEL ENCLOSURE. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION. SEE PRESSURE CALCULATION.	L9.2.1/A
NO SYMBOL	V.I.T.	BACKFLOW ASSEMBLY ENCLOSURE: MODEL SBBC-22SS. INSTALL ON CONCRETE PAD WITH BF ASSEMBLY CENTERED. CONCRETE PAD TO EXTEND 6" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE. REFER TO MANUFACTURER'S INSTALLATION DETAIL AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION INFORMATION.	L9.2.1/A
Θ	SITE ONE	1-1/2" BRASS HYDROMETER AS PART OF THE CONTROLLER ASSEMBLY. CONNECT TO CONTROLLER VIA SEPARATE #14 GAUGE FLOW SENSOR CABLE, PAIGE ELECTRIC, MODEL 7072D, WITHIN 1-1/4" SCH 80 CONDUIT.	L9.2.2/A
>-	LASCO	MAINLINE ISOLATION VALVE: MODEL VXX101N-SC. PVC <u>SLO-CLOSE</u> FULL BLOCK TRUE UNION 'SOCKET' BALL VALVE WITH EPDM O-RINGS. VALVE TO MATCH MAINLINE SIZE.	L9.2.1/F
NO SYMBOL	LASCO	MANIFOLD ISOLATION VALVE: <u>SLO-CLOSE</u> FULL BLOCK TRUE UNION 'SOCKET' PVC BALL VALVE WITH EPDM O-RINGS, MODEL VXX101N-SC. CONTRACTOR SHALL INSTALL ALL RCV'S/QCV'S ON MANIFOLDS. VALVE TO MATCH MANIFOLD SIZE. VALVE MANIFOLDS WITH ISOLATION VALVE ARE NOT SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL INSTALL MANIFOLDS PER DETAIL.	L9.2.1/F; L9.2.2/B
•	HUNTER	3/4" QUICK COUPLER VALVE: MODEL HQ-3RC. CONTRACTOR SHALL SUPPLY 3 QC KEYS, MODEL HK-33 WITH ARROWHEAD BRASS (CHAMPION) UPWARD 3/4"X 3/4" BENT-NOSE HOSE BIB, MODEL 975, ATTACHED. CONTRACTOR SHALL TURN OVER KEYS TO OWNER'S REPRESENTATIVE AT COMPLETION OF MAINTENANCE PERIOD.	L9.2.1/G; L9.2.2/B
	HUNTER/ NETAFIM	1" DRIP ZONE ASSEMBLY: HUNTER RCV, MODEL ICV-101G ,WITH NETAFIM 1" DISC FILTER, MODEL DF100-140 (WITH 140 MESH DISC RINGS), AND 1" 40 PSI PRESSURE REGULATOR, MODEL WRPR1-40. INSTALL SPEARS 1" GRAY THREADED (FIPT) BALL VALVE, MODEL 2621-010G ON UPSTREAM SIDE OF VALVE FOR ISOLATION.	L9.2.2/B,D; L9.2.4/B; L9.2.8/A
lacktriangle	HUNTER	REMOTE CONTROL VALVE ICV SERIES, SIZE AS SHOWN	L9.2.1/E; L9.2.2/B
AR	NETAFIM	CONTINUOUS ACTING COMBINATION 1" AIR VENT, MODEL 65ARIB1-0150. INSTALL ON MAINLINE WHERE SHOWN. SYSTEM 'A' - 5 ASSEMBLIES; SYSTEM 'B' - 6 ASSEMBLIES CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS AND HARDWARE TO CONNECT VALVE TO IRRIGATION MAINLINE. INSTALL WITHIN STACKING STANDARD VALVE BOXES, MODEL VB-STD OR USE 45 DEGREE ELS. INSTALL NIBCO BALL VALVE, MODEL T-585-70-66-ST, WITH STAINLESS STEEL STEM / NUT / BALL / HANDLE, FOR SHUTOFF FROM MAINLINE. CONTACT NETAFIM REPRESENTATIVE, BILL MILLWARD, (951) 287-4630, FOR ADDITIONAL EQUIPMENT INFORMATION.	L9.2.4/A

OVERHEA	D IRRIGA	ΓΙΟΝ		GPM		RADIUS	P/R-HR.	PSI	
<u>Q</u> <u>H</u> <u>F</u>			<u>90°</u>	180°	<u>360°</u>				
1 2 3	RAIN BIRD	RD-06-S-P45-F W/ R-VAN14 ROTARY (Q,H) (F-360°) NOZZLE	0.32	0.63	1.27	8-14 FT	.62"	45	L9.2.3/A
4 5 6	RAIN BIRD	RD-06-S-P45-F W/ R-VAN18 ROTARY (Q,H) (F-360°) NOZZLE	0.50	1.01	1.85	13-18 FT	.64"	45	L9.2.3/A
7 8 9 LS RS SS	RAIN BIRD	RD-06-S-P45-F W/ R-VAN24 ROTARY (Q,H) (F-360°) NOZZLE	0.84	1.68	3.48	17-24 FT	.61"	45	L9.2.3/A
LS RS SS (10) (11) (12)	RAIN BIRD	RD-06-S-P45-F W/ R-VAN STRIP (LCS/RCS, SST) ROTARY NOZZLE	0.24	0.48		15 FT	.62"	45	L9.2.3/A
0 2 3	RAIN BIRD	RD-12-S-P45-F W/ R-VAN14 ROTARY (Q,H) (F-360°) NOZZLE	0.32	0.63	1.27	8-14 FT	.62"	45	L9.2.3/A
4 5 6	RAIN BIRD	RD-12-S-P45-F W/ R-VAN18 ROTARY (Q,H) (F-360°) NOZZLE	0.50	1.01	1.85	13-18 FT	.64"	45	L9.2.3/A
789	RAIN BIRD	RD-12-S-P45-F W/ R-VAN24 ROTARY (Q,H) (F-360°) NOZZLE	0.84	1.68	3.48	17-24 FT	.61"	45	L9.2.3/A
LS RS SS ① ① ②	RAIN BIRD	RD-12-S-P45-F W/ R-VAN STRIP (LCS/RCS, SST) ROTARY NOZZLE	0.24	0.48		15 FT	.62"	45	L9.2.3/A
k a	RAIN BIRD	RD-06-S-P30-F W/ 5' SERIES NOZZLE (Q, H)	0.10	0.20		3-5 FT	1.54"	30	L9.2.3/A
$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	RAIN BIRD	RD-06-S-P30-F W/ 8' HE-VAN SERIES NOZZLE (Q, H, F)	0.29	0.59	1.17	6-8 FT	1.76"	30	L9.2.3/A
$\triangleright \ \land \ \land$	RAIN BIRD	RD-06-S-P30-F W/ 10' HE-VAN SERIES NOZZLE (Q, H, F)	0.45	0.89	1.78	8-10 FT	1.72"	30	L9.2.3/A
\bigcirc \bigcirc \bigcirc	RAIN BIRD	RD-06-S-P30-F W/ 12' HE-VAN SERIES NOZZLE (Q, H, F)	0.59	1.18	2.37	10-12 FT	1.58"	30	L9.2.3/A
	RAIN BIRD	RD-06-S-P30-F W/ 15' HE-VAN SERIES NOZZLE (Q, H, F)	0.93	1.85	3.70	12-15 FT	1.58"	30	L9.2.3/A
	RAIN BIRD	RD-06-S-P30-F W/ 15RCS / 15LCS / 15SST NOZZLE	0.49	0.49		R/LCS 4X12 FT SST 4X25 FT	1.58"	30	L9.2.3/A

<u>IRRIGA</u>	ΓΙΟΝ MIS	CELLANEOUS	
NO SYMBOL	SPEARS	PVC FITTINGS/NIPPLES: 1.) REQUIRED FOR ALL SOLVENT WELD MAINLINE FITTINGS, 2" AND SMALLER: USE SPEARS PVC CL 315 BLUE 'EVERTUFF' SERIES FITTINGS, OR SCH 80 FITTINGS. 2.) REQUIRED FOR ALL SOLVENT WELD MAINLINE FITTINGS, 2-1/2", 3", AND 4": USE SPEARS PVC CL 315 BLUE 'EVERTUFF' SERIES FITTINGS ONLY. 3.) REQUIRED FOR ALL FITTINGS WITH A THREADED MALE AND/OR FEMALE COMPONENT: 1-1/2" OR SMALLER, USE SPEARS PVC CL 315 BLUE 'EVERTUFF' SERIES FITTINGS, OR SCH 80 FITTINGS. FOR 2" OR LARGER USE SPEARS PVC CL 315 BLUE 'EVERTUFF' SERIES FITTINGS ONLY. FEMALE FITTINGS REQUIRE STAINLESS STEEL REINFORCED COLLAR. 4.) FOR ALL SOLVENT WELD LATERAL LINE FITTINGS, 2-1/2" AND SMALLER: USE SPEARS PVC SCH 40 FITTINGS. 5.) FOR ALL SOLVENT WELD LATERAL LINE FITTINGS, 3" AND LARGER: USE SPEARS PVC CL 315 BLUE 'EVERTUFF' SERIES FITTINGS ONLY. 6.) FOR ALL THREADED PLASTIC NIPPLES USE SCH 80 PVC.	N/A
NO SYMBOL	DURA	1", 1-1/2" AND 2" COUPLING MANIFOLD SYSTEM (0-RING MIPT x SWIVEL) IRRIGATION VALVE CONNECTION FITTING TO PVC MALE ADAPTER WITHIN RCV MANIFOLD. APPROVED FITTING SUBSTITUTE / REPLACEMENT FOR PVC UNIONS. P/N 332-010 AND 332-015 AND 332-020. INSTALL ON EITHER SIDE OF RCV. USE REDUCING PVC MALE ADAPTERS TO UPSIZE TO PVC PIPE AS REQUIRED. FITTING IS O-RING SEALED, DO NOT USE PASTE, DOPE, OR TEFLON TAPE. SIZE PER RCV SIZE.	L9.2.1/E; L9.2.2/D
NO SYMBOL	RAIN BIRD	SPECIFICATION GRADE IRRIGATION VALVE BOXES FOR IRRIGATION EQUIPMENT. USE AS REQUIRED: MODELS VB-JMB, VB-STD, VB-10RND, VB-7RND, AND SEB-7XB (FOR DRIP EQUIPMENT). WITH GREEN LIDS IN TURF AREAS, WITH BLACK LIDS IN SHRUB AREAS.	L9.2.2/B,C; L9.2.8/A
NO SYMBOL	3M	WIRE SPLICE CONNECTOR, MODEL DBR/Y-6 FOR RCV AND 2-WIRE CABLE CONNECTIONS AND SPLICES.	L9.2.1/C
NO SYMBOL	PAIGE ELECTRIC	2-WIRE DECODER / HYDROMETER CABLE, MODEL 7072D; #14 GAUGE. INSTALL ALL CABLE WITHIN 1-1/4" ELECTRICAL CONDUIT. CONNECT TO CONTROLLER PER MANUFACTURER'S SPECIFICATIONS.	L9.2.1/B;L9.2.9/A,D; L9.2.10/A,B,C,D,E,F
NO SYMBOL	CHRISTY'S	ALL REMOTE CONTROL VALVES SHALL BE OUTFITTED WITH A YELLOW ID TAG INDICATING THE VALVE NUMBER.	L9.2.1/E; L9.2.2/D
NO SYMBOL	N/A	CONTRACTOR SHALL COORDINATE ALL CONDUITS, SLEEVES, AND WIRE ROUTING WITH GENERAL CONTRACTOR AND ANY AFFECTED ON-SITE TRADES AS REQUIRED THROUGHOUT PROJECT.	N/A
NO SYMBOL	CHRISTY'S	FOR POTABLE WATER SYSTEMS USE 3" WIDE METALLIC DETECTABLE BLUE MARKER TAPE, MODEL TA-DT-3-BI. FOR RECYCLED WATER SYSTEMS USE 3" WIDE METALLIC DETECTABLE PURPLE MARKER TAPE, MODEL TA-DT-3-PRW. TAPE SHALL BE INSTALLED 12" ABOVE ALL IRRIGATION MAINLINES AND SLEEVES.	L9.2.1/D
NO SYMBOL	MARIFI	LANDSCAPE FABRIC, MODEL 150N OR 160N, OR APPROVED EQUAL. INSTALL WITHIN ALL VALVE BOXES.	L9.2.1/B,E,F,G;

L9.2.2/A,D; L9.2.4/A; L9.2.6/D; L9.2.7/D;

L9.2.8/A,D,E

L9.2.4/C,D,E

L9.2.4/D; L9.2.6/D

DETAIL

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SMITHGROUP

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NTITLEMENTS		9/26/2022

SEALS AND SIGNATURES

TREE/PALM IRRIGATION-DRIP

MFR.

SYMBOL

MODEL NO. / DESCRIPTION

XERI-BIRD 8 DRIP MULTI-OUT EMITTER MANIFOLD: MODEL XBD-80. EACH SYMBOL REPRESENTS ONE UNIT PER TREE/PALM, PLACE MANIFOLD UNIT MINIMUM 60" FROM EDGE OF ROOTBALL. INSTALL USING RAIN BIRD XB EMITTERS WITHIN UNIT. ADJUST LOCATION PER ROOTBALL SIZE, TYPICAL. SEE 'EMITTER TABLE' BELOW FOR SIZE AND QUANTITY OF EMITTERS PER TREE/PALM IN SUN OR SHADE AND WHEN TREES/PALMS ARE CONNECTED TO SAME IRRIGATION ZONE. QUANTITY OF EMITTERS AND FLOW RATES AS SHOWN ARE EDUCATED ESTIMATES TO BE USED AS A GUIDE ONLY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MONITORING TREES/PALMS TO APPLY PROPER QUANTITIES OF WATER AS REQUIRED FOR PLANT MATERIAL BASED ON THE TYPE AND SIZE OF TREE/PALM, AND ALL ENVIRONMENTAL FACTORS DURING PROJECT INSTALLATION AND SUBSEQUENT MAINTENANCE PERIOD. PLACE ALL EMISSION POINTS AT 3/4 DISTANCE FROM TRUNK TO EDGE OF ROOTBALL ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF TREE/PALM ROOTBALL.

PLACE BENEATH ROCK/GRAVEL DRAINAGE MATERIAL AND COVER PIPE HOLES.

		_						
EMITTER TABLE (TREE IN SUN)			EMITTER TABLE (TREE IN SHADED LOCATION)					
PLANT SIZE	# OF EMITTERS		PLANT SIZE	# OF EMITTERS	% OF (SUN) GPM			
15 GALLON TREE	2 - 2 GPH		15 GALLON TREE	2 - 2 GPH	100%			
24" BOX TREE	4 - 2 GPH		24" BOX TREE	3 - 2 GPH	75%			
36" BOX TREE	4 - 5 GPH		36" BOX TREE	3 - 5 GPH	75%			
48" BOX TREE	6 - 5 GPH		48" BOX TREE	4 - 5 GPH	67%			
60" BOX TREE	6 - 7 GPH		60" BOX TREE	6 - 5 GPH	71%			
72" BOX TREE	6 - 10 GPH		72" BOX TREE	6 - 7 GPH	70%			

 $\langle FT \rangle$

FLUSH VALVE ASSEMBLY: PROVIDE GRAY 1/2" PVC THREADED BALL VALVE, MODEL 2621-005G, WITH CHAMPION IRRIGATION PRODUCTS (ARROWHEAD BRASS) BRASS HOSE-TO-PIPE THREAD INSERT ADAPTER, MODEL #10F, FOR FLUSHING PVC PIPE WITH STANDARD GARDEN HOSE, INSTALL FLUSH VALVE INSIDE 7" ROUND VALVE BOX, ONE AT THE END OF EACH AND EVERY PIPE RUN IN EACH DIRECTION. MULTIPLE FLUSH VALVES MAY BE REQUIRED WITHIN A TREE DRIP ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLUSH

VALVES REQUIRED. WHEN POSSIBLE INSTALL VALVE 18" FROM PAVING FOR EASE OF MAINTENANCE.

- A. ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.
- B. WHEN DIFFERENT SPECIES OF TREES OR PALMS ARE TIED TO THE SAME ZONE VALVE CONTRACTOR SHALL BE REQUIRED TO MAKE ADJUSTMENTS TO SIZE OF EMITTERS (FOR QUANTITY OF WATER PURPOSES) FOR EACH TREE OR PALM IN THE ZONE AS NEEDED TO PROVIDE PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INFORMATION REGARDING PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES.

IRRIGATION LEGEND

PROJECT NUMBER

SHEET NUMBER

GENERAL IRRIGATION NOTES

DESIGN CRITERIA:

- THE IRRIGATION DESIGN IS BASED ON THE EQUIPMENT MANUFACTURERS, MODELS, AND SPECIFICATIONS AS SHOWN IN THE PLAN, LEGEND, DETAILS, AND SPECIFICATIONS. IN THE EVENT THE CONTRACTOR CHOOSES TO USE AN ALTERNATE PRODUCT, THE PRODUCT MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO SUBSTITUTION AND MUST MEET THE SAME DESIGN PARAMETERS (PRECIPITATION RATES, FLOW CHARACTERISTICS, PRESSURE LOSS CHARACTERISTICS, OPTIMAL OPERATING PRESSURE REQUIREMENTS, PROGRAMMING PROTOCOL, ETC). THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ASSOCIATED CHANGES AND DESIGN REQUIREMENTS (REDESIGN, PLAN CHECK, LAYOUT, CONSTRUCTION ADMINISTRATION, ETC.) AND SHALL TAKE ON AND ASSUME ALL LIABILITY FOR THE DESIGN, IMPLEMENTATION OF THE DESIGN, AND OPERATION OF THE IRRIGATION SYSTEM.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE AN ORIGINAL SET OF THESE PRINTED IRRIGATION PLANS FOR BIDDING AND CONSTRUCTION.
- XEROX COPIES OF THESE PLANS ARE NOT ALLOWED FOR BIDDING AND CONSTRUCTION AS THEY MAY NOT SHOW IRRIGATION SYMBOLS, LINE WEIGHTS, OR LINE TYPES CLEARLY.
- 4. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, PROPERTY LINES, DIMENSIONS AND THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK
- 8. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 9. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SYMBOL SIZES ARE SHOWN FOR DESIGN CLARITY ONLY. CONTRACTOR SHALL MEASURE ALL DISTANCES AND SPACING FROM CENTER OF SYMBOLS ON THE PLAN AND TRANSFER THOSE DISTANCES TO THE FIELD USING A PROPER MEASURING DEVICE SUCH AS A MEASURE TAPE OR WHEEL
- 10. THE CONTRACTOR UNDERSTANDS IT IS THE INTENT OF THESE DRAWINGS TO IRRIGATE ALL NEW PLANT MATERIAL, AND EXISTING PLANT MATERIAL AS REQUIRED, UNLESS SPECIFICALLY NOTATED IN THE DRAWINGS THAT A PLANT MATERIAL IS A NON-IRRIGATED TYPE. WHEN PLANT MATERIAL IS SHOWN IN THESE DRAWINGS TO NOT HAVE IRRIGATION SUBSCRIBED TO IT, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT THROUGH THE PROJECT 'REQUEST FOR INFORMATION' (R.F.I.) PROCESS FOR CLARIFICATION AND FURTHER DIRECTION. IT IS THE INTENT OF THESE DRAWINGS THAT ALL NEW PLANT MATERIAL RECEIVE A MINIMUM OF 100% IRRIGATION COVERAGE FROM TWO ADJACENT SPRINKLERS WHEN OVERHEAD SYSTEMS ARE USED, AND AT LEAST ONE OR MORE EMITTER POINTS PER PLANT, AS DIRECTED IN THE DRIP EMITTER LEGEND, WHEN IRRIGATION DRIP SYSTEMS ARE USED. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR THE LANDSCAPE ARCHITECT OF A DISCREPANCY THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IRRIGATION TO THE PLANT MATERIAL. IRRIGATION SHALL BE OF THE SAME TYPE AS THE SURROUNDING AREA. ULTIMATELY, IT IS RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE IRRIGATION TO EVERY PLANT THAT IS INSTALLED UNDER HIS SUPERVISION.

EQUIPMENT / P.O.C. NOTES:

- 11. VERIFY THE ACTUAL LOCATION AND SIZE OF WATER METER AND BOTH STATIC AND DYNAMIC WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO FIELD VERIFY THE P.O.C. INFORMATION AND NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY CHANGES REQUIRED TO BE MADE TO THE IRRIGATION SYSTEM BECAUSE OF LOW OR HIGH PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 12. P.O.C. EQUIPMENT LAYOUT INCLUDING, BUT NOT LIMITED TO, IRRIGATION WATER METER, BOOSTER PUMP, ELECTRICAL STUB-OUT, FILTER BACKFLOW ASSEMBLY, HYDROMETER, MASTER VALVE, FLOW SENSOR, AND FERTILIZER INJECTOR IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWING. LOCATIONS MAY BE SHOWN WITHIN PAVING AND/OR ORIENTED IN A CERTAIN DIRECTION FOR CLARITY ONLY. PLAN DOES NOT ACCOUNT FOR EQUIPMENT BY OTHERS WITHIN VICINITY OF P.O.C. CONTRACTOR SHALL VERIFY SPECIFIC LAYOUT ORIENTATION AND ACTUAL EQUIPMENT LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF EQUIPMENT
- 13. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTION DEVICE AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONTACT REPRESENTATIVE BEFORE COMMENCING WORK.
- 14. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT WHERE SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST. WHICH ARE NOT INDICATED ON THE PLANS. SUCH CONDITIONS MAY HAVE BEEN UNKNOWN AND NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND/OR OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. SHOULD THE CONTRACTOR FAIL TO NOTIFY THE ABOVE, ANY ADDITIONAL COSTS INCURRED BY REQUIRED CHANGES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- 15. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY, AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.

CONTROLLER / WIRE NOTES:

- 16. CONTRACTOR SHALL REFER TO IRRIGATION LEGEND FOR CONTROLLER TYPE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL P.O.C. SHALL BE CONFIRMED WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 17. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN FOR CONTROLLER POWER CIRCUIT ROUTING.
- 18. CONNECTION OF IRRIGATION CONTROLLER TO THE PROVIDED ELECTRICAL STUB-OUT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR AND INSTALLATION THEREOF SHALL BE PER LOCAL CODE REQUIREMENTS. CONTRACTOR MAY CHOOSE, IF SO DESIRED, TO SUB THIS WORK TO THE ELECTRICAL CONTRACTOR.
- 19. CONTROLLER POWER SOURCE SHALL BE SUPPLIED FROM A 'CONTROLLER DEDICATED' CIRCUIT BREAKER
- 20. CONTRACTOR SHALL INSTALL HYDROMETER CABLE / FLOW SENSOR WIRE WITHIN A SEPARATE 1" SCH 40 PVC ELECTRICAL CONDUIT.
- 21. CONTRACTOR SHALL INSTALL 2-WIRE DECODER CABLE WITHIN 1-1/4" ELECTRICAL CONDUIT THROUGHOUT PROJECT. THE 1-1/4" ELECTRICAL CONDUIT MAY BE CONSIDERED THE WIRING SLEEVE MATERIAL BELOW ALL PAVING AND HARDSCAPE AREAS.

CONTROLLER PROGRAMMING NOTES

- 22. SYSTEMS ARE DESIGNED TO OPERATE MULTIPLE RCV'S CONCURRENTLY. CONTRACTOR SHALL PROGRAM CONTROLLER TO OPERATE MULTIPLE RCV'S CONCURRENTLY. THE MAXIMUM OPERATIONAL FLOW FOR A SYSTEM SHALL BE 20 GPM FOR A 1" METER, 50 GPM FOR 1-1/2" METER, 100 GPM FOR 2" METER. SET UP THE CONTROLLER 'FLOW MANAGEMENT' PROGRAM TO OPERATE UNDER THESE CONDITIONS.
- 23. SHOW WATER USE SCHEDULE NOTING IRRIGATION CYCLES AND RUN TIMES PER STATION OR PLANT TYPE (TURF, SHRUB, TREES, SUN, SHADE). MONTHLY OR SEASONALLY.
- 24. ADD MULTIPLE START TIMES TO PREVENT RUN OFF.
- 25. WATERING SHALL OCCUR BETWEEN 6PM & 6AM.

SYSTEM GROUNDING NOTES:

- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING CONTROLLER PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHOULD CONTACT CONTROLLER MANUFACTURER FOR GROUNDING INSTALLATION INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM AND WORK WITH THE ELECTRICAL CONTRACTOR SO AS TO PROVIDE ADEQUATE GROUNDING AS DETERMINED BY CONTROLLER MANUFACTURER.
- 27. CONTRACTOR SHALL USE U.L. APPROVED GROUND ROD AND GROUND PLATE WITH CADWELD 'ONE-SHOT' CONNECTION PROCESS FOR CONNECTING THE #6 AWG GROUND WIRE FROM THE CONTROLLER GROUND LUG TO THE ROD. MAXIMUM GROUND RESISTANCE SHALL BE PER CONTROLLER MANUFACTURERS SPECIFICATIONS, BUT NOT GREATER THAN 10 OHMS. CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.

- 28. CONTRACTOR SHALL REFER TO DETAILS 'LI-503/B,D,E' FOR SYSTEM GROUNDING INSTALLATION. CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION. ALSO CONTRACTOR MAY CONTACT CONTROLLER ASSEMBLY MANUFACTURER FOR ADDITIONAL CONTROLLER GROUNDING INSTALLATION INFORMATION.
- 29. CONTRACTOR SHALL REFER TO DETAILS 'LI-508/A,D' AND LI-509/B,D,F FOR DECODER SYSTEM GROUNDING INSTALLATION. CONTRACTOR SHOULD CONTACT THE CONTROLLER AND DECODER MANUFACTURER FOR ADDITIONAL DECODER GROUNDING INSTALLATION INFORMATION, BILL MILLWARD, NETAFIM SPECIFICATION MANAGER(951) 287-4630. ALSO, CONTRACTOR MAY CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL DECODER GROUNDING INSTALLATION INFORMATION.
- 30. SURGE PROTECTOR SPACING FOR DECODERS ALONG THE 2-WIRE PATH AND SPECIFIC DECODER GROUNDING REQUIREMENTS SHALL BE DETERMINED BY CONTROLLER/DECODER MANUFACTURER, BUT NOT GREATER THAN 450' ALONG THE 2-WIRE PATH. REFER TO PLAN FOR 'S' SYMBOL DESIGNATING SURGE PROTECTOR APPROXIMATE LOCATIONS.
- 31. FOR 2-WIRE CABLE / DECODERS: CONTRACTOR SHALL USE U.L. APPROVED GROUND ROD AND GROUND PLATE WITH CADWELD 'ONE-SHOT' CONNECTION PROCESS FOR CONNECTING THE GROUND WIRES OF THE SURGE PROTECTOR DECODER TO THE 2-WIRE PATH. MAXIMUM GROUND RESISTANCE SHALL BE PER CONTROLLER MANUFACTURERS SPECIFICATIONS, BUT NOT GREATER THAN 10 OHMS. CONTACT VINCE NOLLETTI, PAIGE ELECTRIC, FRESNO, CA (559) 431-2574 FOR ADDITIONAL GROUNDING INSTALLATION INFORMATION.

OVERHEAD SPRINKLER / BUBBLER NOTES:

- 32. ALL HEADS ARE INTENDED TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS.
- 33. OVERHEAD SPRINKLER (SPRAY/ROTOR) HEADS ADJACENT TO ANY NON-PERMEABLE PAVING SHALL BE INSTALLED A MINIMUM DISTANCE OF 24" INCHES FROM THE NON-PERMEABLE SURFACE TO MINIMIZE ANY OVERSPRAY ON TO SURFACE.
- 34. ALL HEADS ARE REQUIRED TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO ROADWAYS, PATHWAYS, BUILDINGS, WALLS, FENCES, AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OR ADDITION OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNIT AFTER FIELD REVIEW OF AN AREA DETERMINES SUCH IS REQUIRED.
- 35. ALL IRRIGATION (SPRAY OR DRIP) ADJACENT TO BUILDING SHALL BE INSTALLED A MINIMUM DISTANCE OF 12" INCHES FROM BUILDING TO AVOID OVERSPRAY ON TO BUILDING OR WINDOWS OR FOUNDATION SATURATION.
- 36. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO TREES, LIGHT POLES, BOLLARDS, FIRE HYDRANTS, DRINKING FOUNTAINS, ETC. CONTRACTOR SHALL ADD SPRINKLER HEADS AND/OR REPLACE 'HALF PATTERN' NOZZLES WITH TWO 'QUARTER PATTERN' NOZZLES AS REQUIRED TO ACHIEVE 100% COVERAGE IN ALL AREAS THAT REQUIRE ADJUSTING. ADDITIONAL HEADS SHALL BE INSTALLED AT NO ADDITIONAL COSTS TO THE CONTRACT. VERIFY ALL HEAD LAYOUT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.

RCV / QCV NOTES:

- 37. REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF REMOTE CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE PROJECT DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL VALVES SHALL BE INSTALLED WITHIN THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
- 38. RCV SYMBOL LOCATIONS ARE SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. TO CONCEAL VALVE BOX LOCATIONS INSTALL EQUIPMENT AWAY FROM BUILDING ENTRANCES AND OTHER AREAS AS DETERMINED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 39. ALL RCV'S AND QCV'S SHALL BE INSTALLED ON A SUB-MAIN MANIFOLD AS SHOWN IN DETAIL 'LI-502/B'. RCV AND QCV SYMBOLS ARE SHOWN DIAGRAMMATICALLY ON TOP OF MAINLINE FOR CLARITY ONLY. PLAN DOES NOT SHOW THE MANIFOLD FOR CLARITY PURPOSES.
- 40. ALL QUICK COUPLER VALVES SHALL TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER VALVES SHALL BE INSTALLED AS SHOWN IN THE INSTALLATION DETAILS. INSTALL QUICK COUPLERS WITHIN 18 INCHES OF HARDSCAPE. CONTRACTOR SHALL TEE OFF OF MAINLINE WITH 1-1/4 INCH MAINLINE PIPE WHERE APPLICABLE TO LOCATE QUICK COUPLER VALVE WITHIN ADJACENT SHRUB OR GROUNDCOVER AREAS AND/OR 18 INCHES FROM HARDSCAPE

PIPE / SLEEVE NOTES

- 41. MAINLINE LAYOUT IS DIAGRAMMATIC DUE TO THE SCALE OF THE DRAWINGS. ROUTING MAY BE SHOWN WITHIN BUILDINGS AND/OR PAVING FOR CLARITY ONLY, ACTUAL MAINLINE LOCATION TO BE WITHIN PLANTER A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP. CONTRACTOR SHALL ADJUST MAINLINE ROUTING TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO TREES, LIGHT POLES, BOLLARDS, FIRE HYDRANTS, DRINKING FOUNTAINS, CONCRETE FOOTINGS, ETC.
- 42. MAINLINE AND/OR LATERAL PIPE ROUTING SHOWN OUTSIDE PROPERTY LINE AND/OR L.O.W. IS DIAGRAMMATIC AND FOR CLARITY ONLY, CONTRACTOR SHALL ROUTE MAINLINE WITHIN PROPERTY LINE AND/OR L.O.W.
- 43. ALL PIPE MATERIAL AND INSTALLATION LABOR REQUIRED FOR MAINLINE OR LATERAL LINE ADJUSTMENTS DUE TO ACCOMMODATIONS IN THE FIELD SHALL BE INCLUDED WITHIN CONTRACTED PRICE AND MAY NOT BE SUBMITTED AS A CHANGE ORDER TO THE ORIGINAL BID.
- 44. NO PVC PIPE MAINLINES SHALL BE ROUTED OR ALLOWED CLOSER THAN 12 FEET FROM ANY TREE TRUNK AT ANY TIME. PIPE ROUTING AS SHOWN ON PLANS IS FOR DIAGRAMMATIC PURPOSES ONLY. WHEN PIPE MUST BE ROUTED CLOSER THAN 12 FEET BECAUSE OF HARDSCAPE CONSTRAINTS OR OTHER OBSTACLES CONTRACTOR SHALL INSTALL MAINLINE PIPE WITHIN SLEEVE WHERE PIPE IS WITHIN 12 FEET OF THE TRUNK AND SO INDICATE THE PIPE ROUTING AND SLEEVE LOCATIONS ON THE AS-BUILT DRAWINGS.
- 45. SLEEVES AND THEIR LOCATIONS ARE DIAGRAMMATICALLY SHOWN FOR CLARITY ONLY. ALL IRRIGATION SLEEVES MAY NOT BE SHOWN FOR CLARITY PURPOSES. CONTRACTOR SHALL INSTALL SLEEVES BELOW ALL PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. ALL PIPE UNDER PAVED AREAS SHALL BE INSTALLED IN A SLEEVE, AT MINIMUM TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL SLEEVES TO BE INSTALLED A MINIMUM DEPTH AS SHOWN ON THE PIPE/SLEEVING DETAIL. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 46. ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION.
- 47. LATERAL LINES MAY BE SHOWN WITHIN BUILDINGS AND/OR PAVING FOR CLARITY ONLY, ACTUAL LOCATION TO BE WITHIN PLANTER
- 48. THE 1-1/4" ELECTRICAL CONDUIT FOR 2-WIRE DECODER SYSTEMS MAY BE CONSIDERED THE WIRING SLEEVE MATERIAL BELOW ALL HARDSCAPE AND PAVED AREAS.

DRIP/LOW VOLUME SYSTEMS- GENERAL NOTES:

- 49. ALL MAINLINES AND LATERAL LINES SHALL BE THOROUGHLY FLUSHED CLEAN BEFORE DRIP MANIFOLD ASSEMBLIES AND/OR DRIP TUBING CONNECTIONS ARE MADE. ALL DRIP TUBING LINES SHALL BE FLUSHED CLEAN BEFORE BACKFILLING.
- 50. ALL LATERAL LINES FOR DRIP ZONES SHALL BE PVC SCH 40 PIPE.



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ENTITLEMENTS



IRRIGATION NOTES

PROJECT NUMBER

SHEET NUMBER

W.E.L.O. CALCULATIONS

Califo	rnia Water E	fficient Land	dscape Ord
City: FOLSOM	Kaiser Perm	anente HUB	
Reference Evapotranspiration (ET _o)		52.3	Pr
Hydrozone # / Planting Description ^a		Irrigation	Irrigation
	(PF)	Method ^b	Efficiency
			(IE) ^c
Regular Landscape Areas			
LOW water use-Planting	0.35	Drip	0.81
LOW water use-Planting	0.35	Overhead	0.75
Special Landscape Areas			
Recycled Water			
			Maximum /
ETAF Calculations			
Regular Landscape Areas		_	Average ET
Total ETAF x Area	159636		Areas must
Total Area	357263		residential a
Average ETAF	0.45]	for non-resi
All Landscape Areas		_	
Total ETAF x Area	159636		
Total Area	357263]	
Average ETAF	0.45]	

Project: Kaiser Permanente HUB								
City: FOLSOM	California Water Efficient Landscape O							
Hydrozone # / Planting Description e.g.	MAWA (Maximum Annual Water Allowed) =							
1.) Front lawn	(Et_o) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)] =							
2.) Low water use planting	(==0) (=================================							
3.) Medium water use planting	52.3 x .62 x [(0.45 x	357,						
Irrigation Method								
1.) Overhead Spray	32.43	x[(160,						
2.) Drip								
	32	2.43 x						
Irrigation Efficiency								
1.) 0.75 for Overhead Spray		3						
2.) 0.81 for Drip								
	ETWU (Estimated Total Water Use Required)	=						
ETWU (Estimated Total Water Required) = $Eto \times 0.62 \times ETAF_{(Avg.)} \times LA$	$Et_o \times 0.62 \times ETAF_{(Avg.)} \times LA =$							
Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year	52.3 x .62 x 0.45 x	357,						
MAWA (Maximum Annual Water Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)] Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year, LA	TOTAL WATER USE REDUCTION MAWA - ETWU = 36,733 gallo	ons						
is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential areas and 0.45 for non-residential areas.								

POINT SOURCE DRIP SYSTEM NOTES:

- A. EMITTER TABLE AT RIGHT IS ESTIMATED EMITTER
 QUANTITIES AND FLOWS. CONTRACTOR SHALL INSTALL
 EMITTERS AS SHOWN AT INITIAL INSTALLATION.
- B. ALL LATERAL LINES FOR DRIP ZONES SHALL BE PVC SCH 40 PIPE.
- SUB-LATERAL PIPING AS SHOWN SHALL BE 1/2" SCH 40 PIPE. 'BACKBONE' LATERALS SHALL BE PER PLAN SIZE.
- D. CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS BASED ON THE ACTUAL PLANT COUNT AND THE EMITTER TABLE SHOWN AT RIGHT.
- E. VERIFY THE ACTUAL PLANT QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR COMMENCING WORK.
- POST PLANT INSTALLATION: IT SHALL BE THE RESPONSIBILITY OF LANDSCAPE CONTRACTOR TO REVISE EMITTER SIZES AS MAY BE NEEDED TO PROVIDE ANY WATER VOLUME ADJUSTMENTS FOR HEALTHY PLANT GROWTH. THIS TASK SHALL BE COMPLETED AFTER THREE WEEKS OF PLANT OBSERVATIONS AFTER THE INITIAL INSTALLATION AND AGAIN ONE WEEK BEFORE MAINTENANCE PERIOD IS COMPLETED. THESE EMITTER CHANGES AND FINE TUNE ADJUSTMENTS SHALL BE CARRIED OUT AFTER CONSULTATION AND REVIEW OF WATER NEEDS WITH THE IRRIGATION CONSULTANT AND LANDSCAPE ARCHITECT.

GENERAL IRRIGATION NOTES

DRIP/LOW VOLUME SYSTEMS- DRIPLINE NOTES

- 1. DRIPLINE SYSTEMS RUN TIMES SHALL ALWAYS BE PROGRAMMED TO USE THE CONTROLLER'S 'CYCLE AND SOAK' FUNCTION FOR "PULSE IRRIGATION" PROGRAMMING. AFTER DETERMINING TOTAL ZONE RUN TIME CONTRACTOR SHALL BREAK THE RUN TIME INTO A MINIMUM OF 3-4 CYCLES. INEFFICIENT IRRIGATION OCCURS WHEN ONLY ONE CYCLE IS USED. WATER WILL MIGRATE BELOW THE ROOT ZONE OF TURF OR PLANTS VIA 'GRAVITY FLOW'. SHORT RUN TIMES ALLOW WATER TO SPREAD THROUGHOUT AREA MORE EFFICIENTLY.
- 2. ALL DRIPLINE TUBING LAYOUT SHALL FOLLOW AND ROUTE PARALLEL TO GRADE, EXCEPT WHERE A LONGITUDE LAYOUT MAY BE FEASIBLE TO FOLLOW PLANTER LINES WHICH ARE NOT PARALLEL TO GRADE FOR CONSTRUCTIBLE PURPOSES. LAYOUT AS SHOWN IN THE PLANS DOES NOT ALWAYS DEPICT ACTUAL LAYOUT DIRECTION. HATCH PATTERNS OF DRIP AREAS AS SHOWN IN PLAN ARE DIAGRAMMATICAL ONLY.
- 3. DUE TO REQUIREMENT OF MAXIMUM SYSTEM EFFICIENCY ALL DRIPLINE TUBING SHALL LAY LEVEL WITHIN TRENCH. TRENCHES SHALL BE LEVELED ACROSS BOTTOM OF TRENCH, AT NO TIME SHALL BOTTOM OF TRENCH UNDULATE.
- 4. CONTRACTOR SHALL COMPACT ALL DRIPLINE TRENCHES TO 95% SOIL COMPACTION. CONSISTENT COMPACTION IS REQUIRED TO PROVIDE EFFICIENT AND EVEN WATERING OF TURF OR SHRUB PLANT MATERIAL.
- 5. CONTRACTOR SHALL AND IS REQUIRED TO USE THE RAIN BIRD INSERT TOOL, MODEL FITINS-TOOL FOR INSTALLATION OF RAIN BIRD DRIPLINE INSERT FITTINGS. CONTRACTOR SHALL ALWAYS INSERT FITTING UNTIL THE FITTING 'STOP' IS ABUTTED TO TUBING.
- 6. FOR DRIPLINE SYSTEMS IN TURF: IT IS RECOMMENDED TO INSTALL ONE OR TWO DRIP LINES AT A TIME DUE TO THE CLOSE PROXIMITY OF THE 12" SPACING OF ADJACENT LINES. INSTALLATION OF ONLY ONE OR TWO LINES ALLOWS FOR PROPER TRENCHING AND SOIL COMPACTION THAT IS REQUIRED.
- 7. CONTRACTOR SHALL TEMPORARILY IRRIGATE ANY TURF AREAS INSTALLED OVER SUB-SURFACE DRIP SYSTEMS BY HAND WATERING OR BY USING TEMPORARY OVERHEAD SPRINKLERS, UNTIL THE TURF ROOTS HAVE BECOME ESTABLISHED INTO THE SOIL PROFILE IN SUFFICIENT QUANTITY AND DEPTH TO BE IRRIGATED SOLELY BY THE SUB-SURFACE DRIP SYSTEMS. DURING TURF ESTABLISHMENT THE CONTRACTOR SHALL OPERATE THE SUB-SURFACE DRIP SYSTEMS AND MANUALLY IRRIGATE AS REQUIRED TO ESTABLISH TURF GROWTH. AS TURF ROOTS ARE DEVELOPED, THE HAND WATERING OR OVERHEAD SPRINKLER IRRIGATION OF THE TURF SHALL BE REDUCED UNTIL NO LONGER REQUIRED. THE AMOUNT AND DURATION OF MANUAL IRRIGATION WILL VARY WITH LOCAL CLIMATE CONDITIONS, SOIL PROFILE, AND OTHER SITE SPECIFIC FACTORS. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE ESTABLISHMENT OF THE TURF AND ITS ROOTS AND SHALL BE REQUIRED TO WEAN THE TURF OFF OF HAND WATERING OR TEMPORARY OVERHEAD IRRIGATION PRIOR TO FINAL ACCEPTANCE AND TURN-OVER OF THE PROJECT.
- 8. FOR SHRUB AREAS ON SLOPES INSTALLED WITH DRIPLINE TUBING THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR CREATING A TRIANGULAR WETTING PATTERN ACROSS ALL SLOPES. LAY TUBING HORIZONTAL TO SLOPE. OFFSET THE EMITTERS BY HALF THE EMITTER SPACING WHEN INSTALLING TUBING TO CREATE A TRIANGULAR WETTING PATTERN ACROSS THE SLOPE. DO NOT INSTALL TUBING SO AS THE EMITTERS ARE DIRECTLY IN LINE (PERPENDICULAR) WITH EACH OTHER.

DRIP/LOW VOLUME SYSTEMS- POINT SOURCE DRIP NOTES:

- 9. VERIFY THE ACTUAL PLANT QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR COMMENCING WORK. CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS, BASED ON THE ACTUAL PLANT COUNT WITH REFERRAL TO THE EMITTER TABLE SHOWN IN THE LEGEND.
- 10. CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS BASED ON THE ACTUAL SHRUB AND TREE COUNT AND THE EMITTER TABLES SHOWN. ANY REFERENCE TO TOTAL EMITTER QUANTITIES ON THESE PLANS IS FOR DESIGN USE ONLY. VERIFY THE ACTUAL SHRUB AND TREE QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR COMMENCING WORK.
- 11. THE EMITTER TABLE IN LEGEND IS ESTIMATED EMITTER QUANTITIES AND FLOWS. CONTRACTOR SHALL INSTALL EMITTERS AS SHOWN IN THE TABLE AT INITIAL INSTALLATION.
- 12. SUB-LATERAL PIPING AS SHOWN IN DETAILS 'LI-504/E' AND 'LI-508/F' SHALL BE 1/2" SCH 40 PIPE. 'BACKBONE' LATERALS SHALL BE PER PLAN SIZE.
- 13. THE IRRIGATION PLANS AND THE SPECIFICATION OF INDIVIDUAL EMITTERS DO NOT TAKE INTO ACCOUNT THE EXPOSURE IDIOSYNCRASIES OF LOCATION, RELATIVE TO SUN OR SHADE PATTERNS WITHIN A ZONE. BEFORE COMMENCING WORK CONTRACTOR SHALL FIELD REVIEW ALL PLANTER AREAS WHERE POINT SOURCE DRIP ZONES ARE SHOWN ON THE PLANS. CONTRACTOR MAY BE REQUIRED TO SUBSTITUTE THE SIZE OF EMITTER (FLOW RATE) AS CALLED OUT IN THE LEGEND FOR ANOTHER OF A HIGHER OR LOWER FLOW RATE, DEPENDING ON THE LOCATION OF THE EMITTER. FOR SHRUBS LOCATED WITHIN A SHADED AREA AN EMITTER WITH A LOWER FLOW RATE (I.E. 1/2X FLOW RATE) MAY BE REQUIRED THAN WHAT IS REQUIRED FOR THE SAME SHRUB TYPE INSTALLED WITHIN A SUNNY AREA. SHRUBS INSTALLED WITHIN A HIGH HEAT INDEX AREA, SUCH AS WITHIN THE SPHERE OF INFLUENCE OF A GROUND LEVEL WINDOW (OR OTHER REFLECTIVE SURFACE) ON A SOUTH OR WEST FACING EXPOSURE, MAY REQUIRE A HIGHER FLOW EMITTER TO COMPENSATE FOR THE HIGHER WATER EVAPORATION LOSS FROM THE SOIL. WHEN AREAS ARE FOUND, SUCH AS LISTED ABOVE, ON A PROJECT THE CONTRACTOR SHALL REVIEW AREAS WITH THE LANDSCAPE ARCHITECT FOR REQUIRED INDIVIDUAL EMITTER SUBSTITUTIONS. SUCH EMITTER SUBSTITUTIONS SHALL NOT INCREASE THE COST OF THE PROJECT.
- 14. FOR MULTI-OUTLET DRIP MANIFOLDS: UNITS SHALL BE ALIGNED WITH TREES AS SHOWN IN THE DETAILS. INSTALL AT DISTANCE FROM TREE PER LEGEND DESCRIPTION. CONFIRM ALL PROPOSED LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 15. TREE/PALM DRIP SYSTEM HAS BEEN DESIGNED TO ACCOMMODATE THE UP-SIZING OF EMITTERS TO COMPENSATE FOR FUTURE PLANT GROWTH. MAINTENANCE PERSONNEL SHALL UPSIZE EMITTERS AND QUANTITIES AS REQUIRED TO PROVIDE ADEQUATE WATER FOR HEALTHY PLANT GROWTH.
- 16. WHEN DIFFERENT SPECIES OF TREES/PALMS ARE TIED TO THE SAME ZONE VALVE CONTRACTOR SHALL BE REQUIRED TO MAKE ADJUSTMENTS TO SIZE OF EMITTERS (FOR QUANTITY OF WATER PURPOSES) FOR EACH SPECIES OF TREEE/PALM IN THE ZONE AS NEEDED TO PROVIDE PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INFORMATION REGARDING PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES.
- 17. POST PLANT INSTALLATION: IT SHALL BE THE RESPONSIBILITY OF LANDSCAPE CONTRACTOR TO REVISE EMITTER SIZES AS MAY BE NEEDED TO PROVIDE ANY WATER VOLUME ADJUSTMENTS FOR HEALTHY PLANT GROWTH. THIS TASK SHALL BE COMPLETED AFTER THREE WEEKS OF PLANT OBSERVATIONS AFTER INITIAL INSTALLATION AND AGAIN ONE WEEK BEFORE MAINTENANCE PERIOD IS COMPLETED. ALL EMITTER CHANGES AND FINE TUNE ADJUSTMENTS SHALL BE CARRIED OUT AS PART OF THIS PROJECT WITH NO ADDITIONAL COST TO THE OWNER. COMPLETE AFTER CONSULTATION AND REVIEW OF WATER NEEDS WITH THE IRRIGATION CONSULTANT AND LANDSCAPE ARCHITECT.

REMOVAL AND DISPOSAL NOTES:

- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO COMMENCING WORK.
- 19. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION EQUIPMENT IF THEY ARE TO BE PROTECTED IN PLACE.



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9/26/2022

SEALS AND SIGNATURES

ENTITLEMENTS

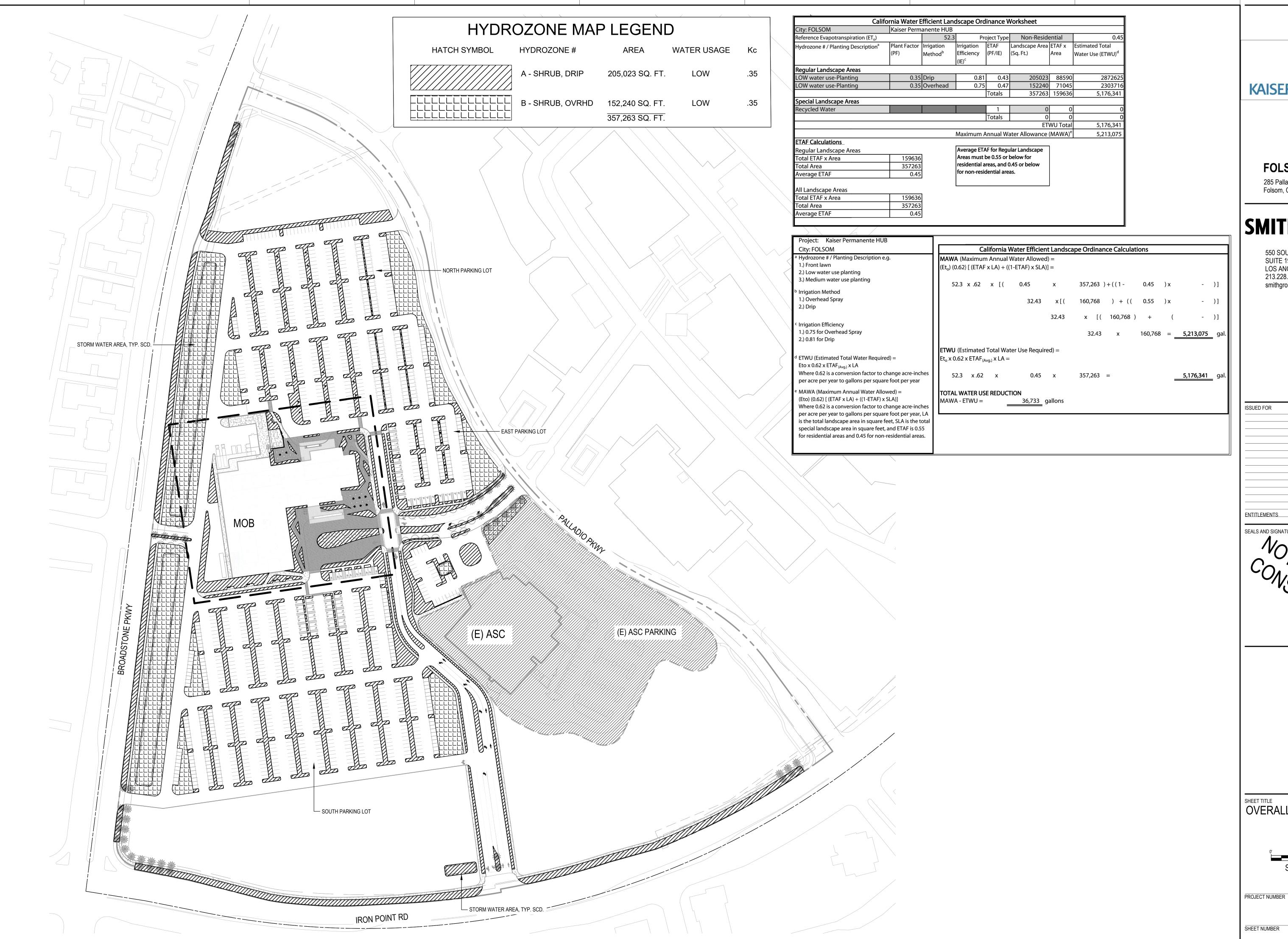


IRRIGATION NOTES & CALCULATIONS

13931.000 PROJECT NUMBER

190

SHEET NUMBER





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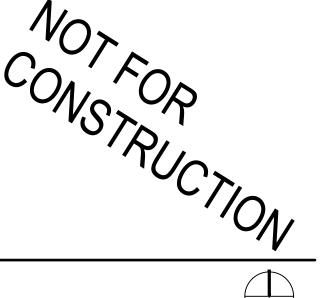
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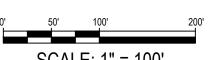
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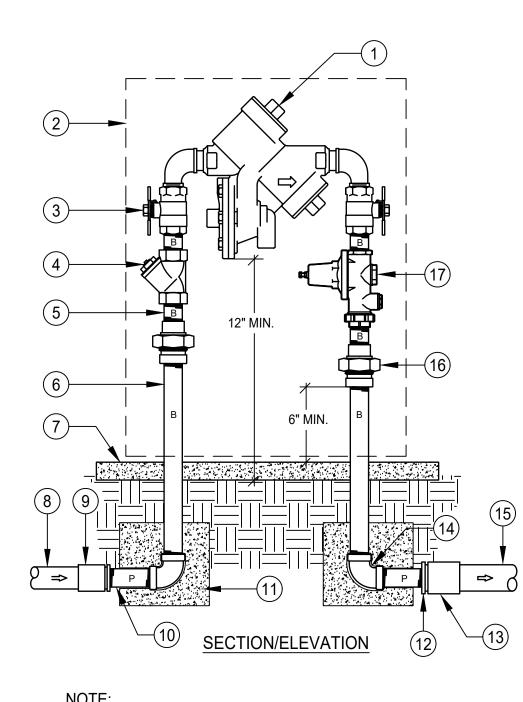
OVERALL IRRIGATION PLAN



13931.000

L9.1.0

PROJECT NORTH



A. CONCRETE SLAB SHALL BE MINIMUM 4" THICK AND EXTEND A MINIMUM 6" PAST THE BACKFLOW ASSEMBLY PIPING AND/OR ENCLOSURE ON ALL SIDES.

BACKFLOW ASSEMBLY

1 2 3 4 5 6 7

DEPTH CHART

21/2" & SMALLER

A. ALL PIPE SLEEVE UNDER ASPHALT OR

VEHICULAR TRAFFIC PAVING SHALL HAVE 4

INCHES OF SURROUNDING BACKFILL MATERIAL,

CONSISTING OF CLEAN SAND, ON ALL SIDES OF

ALL MAINLINE PIPE 3" AND LARGER SHALL HAVE 4

INCHES OF SURROUNDING BACKFILL MATERIAL,

CONSISTING OF CLEAN SAND, ON ALL SIDES OF

EQUAL DEPTHS INDICATED IN COLUMNS A. B. & C.

C. SLEEVE UNDER PEDESTRIAN WALKWAYS SHALL

D. LINES MUST HAVE MIN. CLEARANCE OF 4" FROM

E. RUN CONVENTIONAL WIRE BESIDE MAINLINE AT

EACH OTHER & 12" FROM OTHER TRADES

6" & LARGER

3" & 4"

WIRING

Α

SCALE: N.T.S.

- BACKFLOW DEVICE, REFER TO LEGEND FOR **SPECIFICATION**
- 2. BACKFLOW ENCLOSURE, REFER TO LEGEND FOR **SPECIFICATION**
- BRASS BALL VALVE
- 4. WYE STRAINER, REFER TO LEGEND FOR **SPECIFICATION**
- 5. BRASS NIPPLE, MAX. LEN. 3" (4 REQ.)
- BRASS RISER, LEN. AS REQUIRED, (2 REQ.)
- 7. CONCRETE SLAB
- 8. IRRIGATION SERVICE LINE FROM METER
- 9. PVC SCH 80 SS COUPLER, SVC LINE SIZE
- 10. PVC SCH 80 NIPPLE, LENGTH BEYOND THRUST BLOCK, (2 REQ.)
- 11. CONCRETE THRUST BLOCK, 1 CU. FT.
- 12. PVC SCH 80 REDUCING ADAPTER, SF, COUPLER SIZE (2 REQ.)
- 13. PVC SCH 80 SS COUPLER, MAINLINE SIZE
- 14. BRASS ELBOW

4 4 4 4

A B C D E F

12" | 18" | 18" | 24" | 30" | 30"

BESIDE _ MAIN

18" | 24" | 24" | 30" | 36"

36" | 36" | 36" | 36" | 36"

SECTION/ELEVATION

- 15. IRRIGATION MAINLINE
- 16. BRASS UNION (2 REQ.)
- 17. PRESSURE REGULATOR, IF SPECIFIED. REFER TO LEGEND FOR SPECIFICATION - IF NOT SPECIFIED, INSTALL ONE BRASS NIPPLE IN PLACE OF TWO 3" NIPPLES AND REGULATOR

ON-GRADE LATERAL

UNDISTURBED SOIL

4. LATERAL LINE

PIPE, WHEN SPECIFIED

COMPACTED BACKFILL

2-WIRE CABLE WITHIN **ELECTRICAL CONDUIT**

MAINLINE TRACER TAPE

COPPER TRACER WIRE. REFER TO LEGEND FOR

OR AWG #6 BARE

SPECIFICATION

7. MAINLINE, REFER TO

LEGEND FOR **SPECIFICATION**

8. ROADWAY / PAVING

9. LATERAL LINE SLEEVE

10. SAND BACKFILL; FILL TO

12. CONTROL WIRE SLEEVE

FOR CONVENTIONAL

WIRE OR 2-WIRE CABLE

4" ABOVE, AND 4"

BELOW SLEEVE

11. MAINLINE SLEEVE

F. TIE A 24" LOOP IN ALL WIRING/CABLE AT

WITHIN CONDUIT

PIPE WITHIN.

INTRUSION.

CHANGES IN DIRECTION, WHEN NOT INSTALLED

G. ALL SLEEVES MUST BE 2X THE DIAMETER OF THE

H. ALL SLEEVE ENDS MUST BE SEALED WITH FOAM

SEALANT INSIDE PIPE TO MINIMIZE DEBRIS

ALL SLEEVES MUST EXTEND 12" MIN. DISTANCE

PAST EDGE OF ROADWAY, CURB, OR SIDEWALK.

CONTRACTOR MUST ADJUST MAINLINE AROUND

TREE ROOT BALLS, (MIN. 5' CLEARANCE), AND

ALL STREET LIGHT LOCATIONS, LIGHT BOLLARDS,

SECTION/ELEVATION

SCALE: N.T.S.

В

LEGEND

- PROVIDE WIRE JUNCTION/PULL BOX AT EVERY CHANGE OF DIRECTION AND AT MAXIMUM 200 FOOT INTERVALS.
- SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN
- C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1/2" ABOVE MULCH LAYER, WHICHEVER IS HIGHER

2-WIRE / COMM CABLE PULL BOX

3 4 5 6

A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.

B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER,

11. PVC SCH 80 SS EL, SIZE PER #10

"RCV" AND ZONE # ON LID

LENGTH 4" (2 REQ.)

17. PVC SCH 80 PVC NIPPLE, RCV SIZE, MIN.

18. SCH 40 PVC MALE ADAPTER MIPTxSLIP, SIZE

19. SCH 40 PVC REDUCER BUSHING, SS, SIZE AS

13. CONTROL WIRES WITH WATER TIGHT SPLICES

14. PVC SCH 80 REDUCER BUSHING, SPGxFIPT, SIZE

PROVIDE 24" COIL OF WIRE AT VALVE

12. FINISH GRADE

AS REQUIRED

16. RCV ID TAG

PER RCV

REQUIRED

SECTION/ELEVATION

WHICHEVER IS HIGHER.

2. PVC SCH 40 SLIP COUPLER, AS REQUIRED

3. 3/4" CRUSHED GRAVEL, MIN. 5"-6" DEPTH

5. REMOTE CONTROL VALVE, REFER TO LEGEND

4. PVC SCH 80 TT UNION, SIZE PER RCV

7. PVC SCH 80 MAINLINE TEE/ELL FITTING

8. PVC MANIFOLD BACKBONE MAINLINE, DEPTH

10. PVC PIPE, MINIMUM PRESSURE RATING-315 PSI.

SIZE PER IMMEDIATE DOWNSTREAM RCV

9. SOLID BRICK, NOMINAL SIZE (MIN. 4 REQ.)

FOR SPECIFICATION

6. LANDSCAPE FABRIC

PER SPECS

LATERAL SIZE

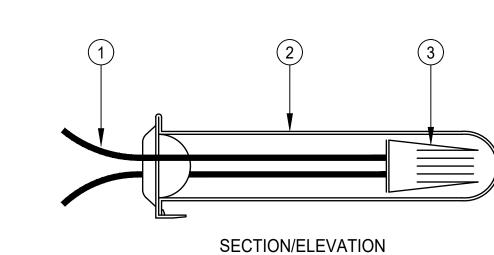
SCALE: N.T.S.

1. PVC LATERAL LINE PIPE TO ZONE

2" MIN 6" MAX

RECTANGULAR SPECIFICATION GRADE VALVE **BOX WITH BOLT** DOWN COVER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "2W CABLE" ON LID

- 2. 2-WIRE CABLE
- 3. FINISH GRADE
- 4. 36" WIRE **EXPANSION** LOOP TYPICAL
- BRICK SUPPORTS
- 6. PVC ELECTRICAL **SWEEP EL**
- 7. LANDSCAPE **FABRIC**
- 3/4" CRUSHED GRAVEL, MIN. 6" DEPTH



WIRE CONNECTION

SCALE: N.T.S.

1. LOW VOLTAGE WIRES

- 2. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
- WIRE CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST **CONNECTOR ONTO WIRES** TO SEAT FIRMLY



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285 Palladio Pkwy, Folsom, CA 95630

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550 SOUTH HOPE STREET **SUITE 1950** LOS ANGELES, CA 90071 213.228.6900

REV DATE

9/26/2022

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SEALS AND SIGNATURES

8" PVC CL 160 PIPE OR NON-PERF DRAIN PIPE LENGTH AS REQUIRED. FIT PIPE OUTSIDE UNION. USE FABRIC TO FILL

PVC MAINLINE OR MANIFOLD

SUBMAIN / BACKBONE PIPE. SEE LEGEND FOR DEPTH AS

MINIMUM 4.5 OZ. MATERIAL

SEE SPECIFICATIONS FOR

PVC SCH 80 SLO-CLOSE BALL

CENTERED IN BOX. REFER TO

LEGEND FOR SPECIFICATION

VALVE, INSTALL VALVE

PER SPECIFICATION

LANDSCAPE FABRIC,

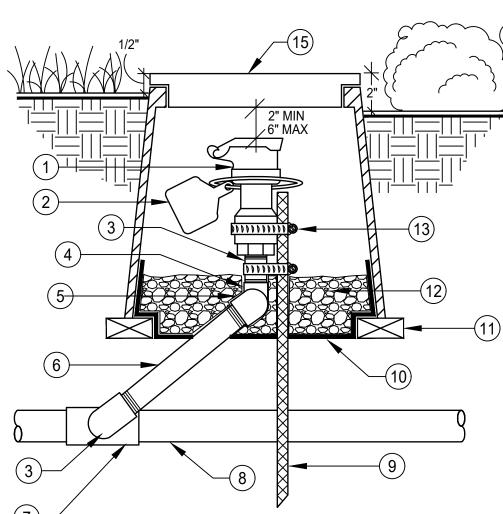
APPROVED TYPE

3/4" CRUSHED GRAVEL, FILL TO 2" BELOW TOP OF SLEEVE AND 5" BELOW BALL VALVE FOR SUPPORT

IRREGULARITIES

- 6. SUPPORT BRICKS, (3 REQ.)
- 7. SITE SOIL
- FINISH GRADE
- 10" ROUND SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN 'T' COVER. HEAT BRAND "BV" ONTO LID.

PVC MAINLINE ISOLATION BALL VALVE



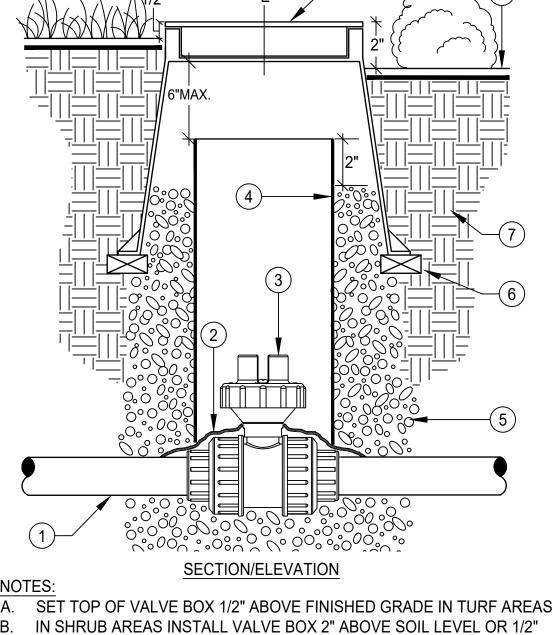
15. RECTANGULAR SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN 'T' COVER. HEAT BRAND

- HIGHER.

- LEGEND FOR SPECIFICATION 2. APPURTENANCE PURPLE ID TAG
- BRASS NIPPLE- QCV SIZED 4" MIN. LENGTH

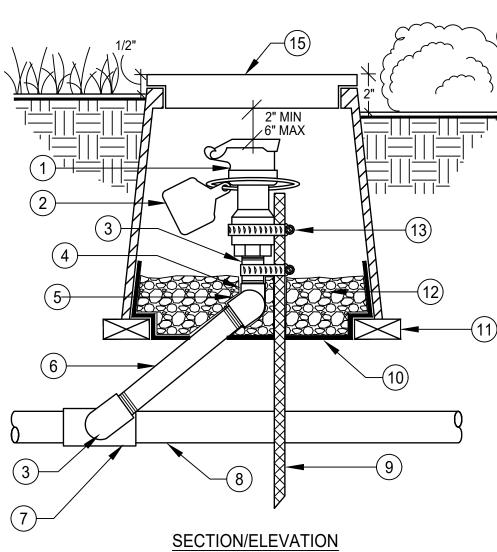
QUICK COUPLING VALVE. SEE

- 4. BRASS ST. ELL (2 REQ.)
- 5. BRASS ELL
- 6. BRASS NIPPLE- QCV SIZED 12" MIN. LENGTH FOR 18" TRENCH 18" MIN. LENGTH FOR 24" TRENCH
- 7. PVC SCH 80 FITTING, TEE / ELL
- 8. PVC MAINLINE SEE LEGEND FOR SPECIFICATION
- 9. #4 REBAR 36" MIN. LENGTH
- 10. LANDSCAPE FABRIC
- 11. SUPPORT BRICKS (3 REQ.)
- 12. 3/4" CRUSHED GRAVEL, MIN. 1 CUBIC FOOT
- VALVE BOX WITH "T" COVER



ABOVE MULCH LAYER, WHICHEVER IS HIGHER C. CONTRACTOR TO PROVIDE ONE STANDARD 30 INCH SPRINKLER KEY WRENCH FOR THE OPERATION OF BALL VALVES.

SCALE: N.T.S.

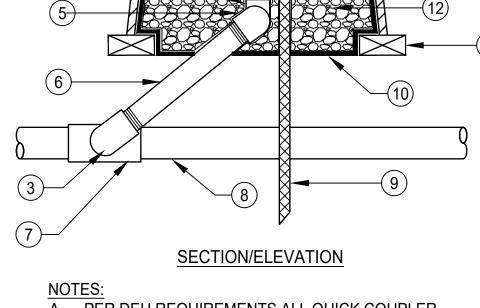


IRRIGATION DETAILS

13931.000 PROJECT NUMBER

L9.2.1 SHEET NUMBER





A. PER DEH REQUIREMENTS ALL QUICK COUPLER VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE.

SCALE: N.T.S.

LOCATION SHOWN, TAPE & BUNDLE @ 10' O.C. OTHER OBSTACLES PIPE / WIRE / SLEEVE INSTALLATION

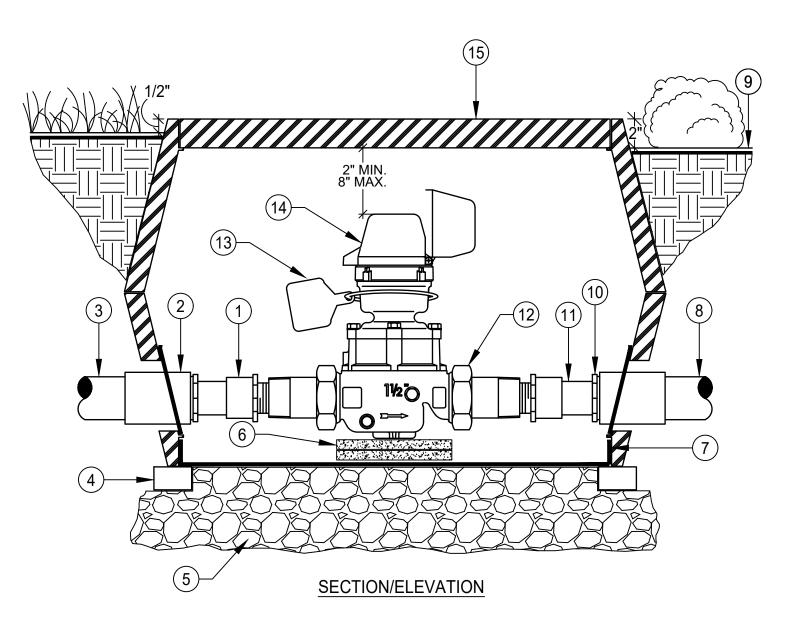
Ε

RCV ASSEMBLY FOR OVERHEAD SYSTEMS

SCALE: N.T.S.

HEATED BRANDED MARKED 'QCV' **QUICK COUPLER ASSEMBLY**

13. STAINLESS STEEL CLAMP (2 REQ.) SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS. 14. FINISH GRADE C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS 15. 10" ROUND SPECIFICATION GRADE



A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS. B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1/2" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- PVC SCH 80 MALE ADAPTER. SIZE PER HYDROMETER UNIT. (2 REQ.)
- 2. PVC SCH 80 SLIP COUPLER, MAINLINE SIZE
- 3. PVC MAINLINE PIPE FROM METER/BACKFLOW ASSEMBLY. 9. FINISH GRADE PIPE SHALL UPSIZE TO MAINLINE SIZE
- 4. 4x8 BRICK SUPPORTS (MIN. 6
- 5. 3/4" CRUSHED GRAVEL, 8" MIN.

SCALE: N.T.S.

- 8"x8" CONCRETE PAVERS FOR SUPPORT
- 7. LANDSCAPE FABRIC
- 8. PVC MAINLINE PIPE TO **IRRIGATION SYSTEM**
- 10. PVC SCH 40 SS REDUCER BUSHING (MAINLINE SIZE x HYDROMETER SIZE)
- 11. PVC PIPE, MAINLINE TYPE
- 12. UNION, AS PART OF UNIT

1-1/2" HYDROMETER / MASTER VALVE

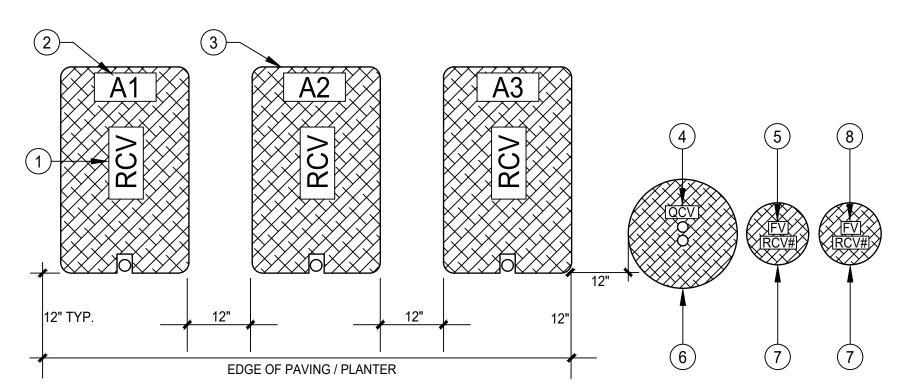
- 13. APPURTENANCE PURPLE ID TAG
- 14. HYDROMETER, WIRE TO CONTROLLER PER MANUFACTURER'S **SPECIFICATION**
- 15. TWO DOUBLE INTERLOCKING SPECIFICATION GRADE 'JUMBO' RECTANGULAR VALVE BOXES (19"x26" NOM. SIZE) WITH BOLT DOWN 'T' COVER MARKED "MV/FS

1. IRRIGATION MAINLINE

- 2. MAINLINE TEE FITTING, MAINLINE x MANIFOLD SIZE
- 3. MANIFOLD ISOLATION VALVE. MANIFOLD SIZE. REFER TO LEGEND FOR TYPE.
- 4. ALL VALVE BOXES TO HAVE A MINIMUM 12" SEPARATION BETWEEN BOXES
- IRRIGATION MANIFOLD "SUB-MAINLINE" PIPE. SIZE PER LARGEST LATERAL PIPE
- BRASS REMOTE CONTROL VALVE. ILLUSTRATION DOES NOT SHOW REQUIRED SPEARS BALL VALVE UPSTREAM OF RCV.
- RECTANGULAR SPECIFICATION GRADE VALVE BOX. REFER TO LEGEND FOR TYPE
- PVC SCH 80 UNION. TWO REQUIRED PER ASSEMBLY. REFER TO RCV ASSEMBLY INSTALLATION **DETAILS**
- LATERAL LINE TO SPRINKLERS
- 10. SIDEWALK / HARDSCAPE EDGE, **INSTALL BOXES 12"-18" FROM EDGE**
- 11. QUICK COUPLER VALVE. REFER TO LEGEND FOR TYPE
- 12. MAINLINE TEE FITTING, MAINLINE x
- 13. QCV MANIFOLD ISOLATION VALVE. REFER TO LEGEND FOR TYPE
- 14. PVC SCH 80 UNION

1-1/2" SIZE

- QUICK COUPLER SWING JOINT
- 16. 10" ROUND SPECIFICATION GRADE VALVE BOX. REFER TO LEGEND FOR TYPE



PLAN VIEW

A. SPECIFICATION GRADE VALVE

BOXES BY RAIN BIRD ONLY.

BY HOT IRON BRANDING.

FROM HARDSCAPE.

TO INSTALLATION.

WHERE POSSIBLE

GRADE IN TURF.

B. VALVE BOXES SHALL BE LABELED

C. LOCATE VALVE ASSEMBLIES 18"-24"

D. LOCATION OF VALVE ASSEMBLIES

SHALL BE STAKED FOR APPROVAL

BY LANDSCAPE ARCHITECT PRIOR

TO FACILITATE SERVICING VALVE.

E. CENTER VALVE BOXES OVER VALVE

F. SET RCV AND VALVE ASSEMBLIES IN

GROUND-COVER/SHRUB AREA

G. SET BOXES AT EQUAL ELEVATIONS

W/ TOPS AT 2" ABOVE MULCH IN

SHRUBS AND 1/2" ABOVE FINISH

OTHER AND PERPENDICULAR TO

DEFORMATION OF VALVE BOXES.

I. AVOID HEAVILY COMPACTING SOIL

AROUND VALVE BOXES TO

PREVENT COLLAPSE AND

H. SET BOXES PARALLEL TO EACH

ARV AIR RELIEF VALVE BS BASKET STRAINER BV BALL VALVE CCC COMMUNICATION SPLICES DRIP TREE DRIP MANIFOLD

FI FERTILIZER INJECTOR FS FLOW SENSOR

FV FLUSH VALVE ASSEMBLY GV GATE VALVE

GRD GROUND ROD MS MOISTURE SENSOR MV MASTER VALVE

SB SPLICE BOX RCV REMOTE CONTROL VALVE QCV QUICK COUPLER VALVE

- 1. 'RCV' HEAT BRANDED ON VALVE BOX LID
- 2. APPROPRIATE CONTROLLER AND STATION NUMBER HEAT BRANDED ON VALVE BOX LID
- RECTANGULAR SPECIFICATION GRADE VALVE BOX, TYP.
- 'QCV' HEAT BRANDED ON VALVE BOX LID
- 5. 'FV' WITH DRIP ZONE RCV STATION NUMBER HEAT BRANDED ON ALL DRIP SYSTEM FLUSH VALVE **BOX LIDS**
- 10" ROUND SPECIFICATION GRADE QUICK COUPLER VALVE BOX, TYP.
- 7. 7" ROUND DRIP VALVE BOX, TYP.
- 'DRIP' WITH TREE DRIP ZONE RCV STATION NUMBER HEAT BRANDED ON ALL TREE DRIP MANIFOLD BOX LIDS

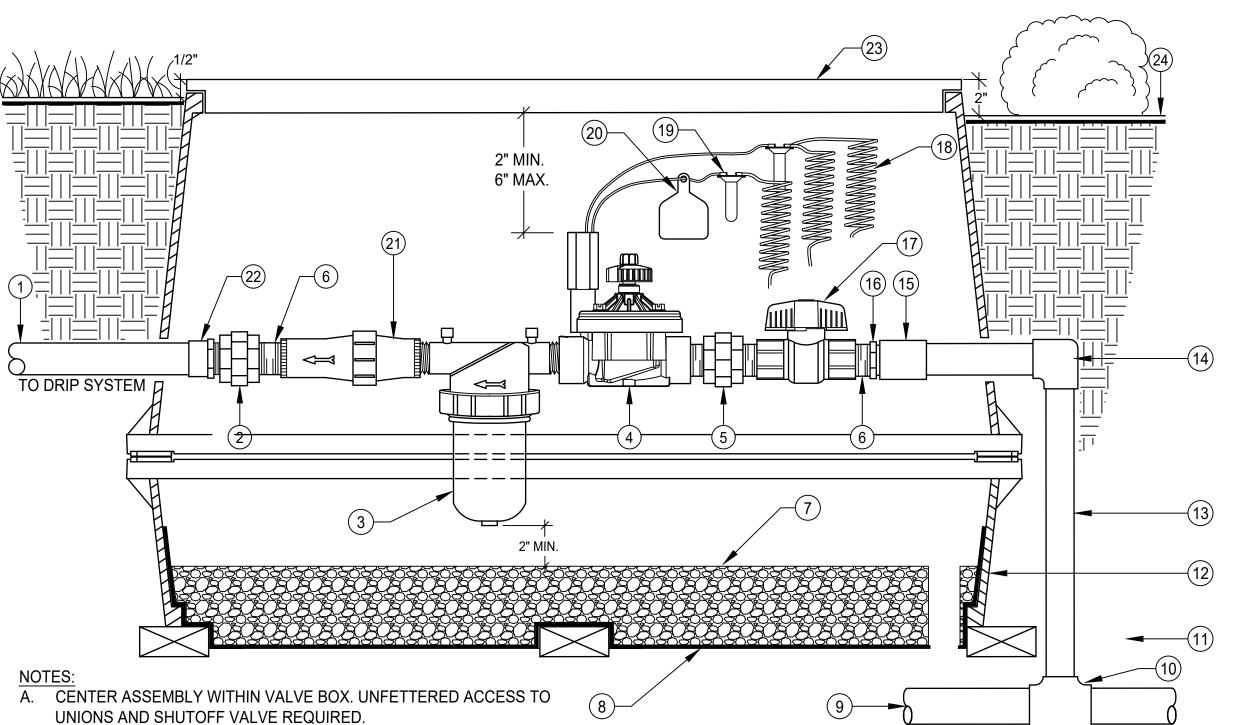
VALVE BOX LOCATION / MARKING

SCALE: N.T.S

SECTION/ELEVATION

MANIFOLD LAYOUT

SCALE: N.T.S.

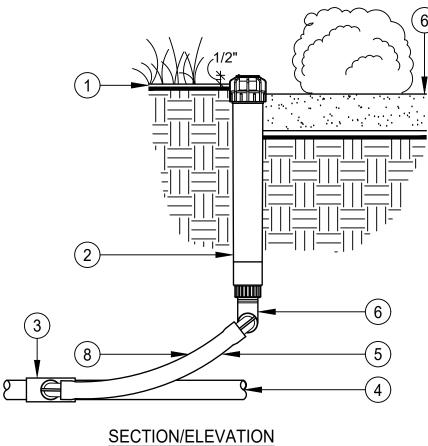


1. LATERAL LINE PIPE. SIZE PER

PLANS

- 2. 1" PVC SCH 80 UNION
- 3. 1" NETAFIM DISC FILTER WITH 140 MESH (BLK) RINGS, MODEL DF100-140
- 4. 1" REMOTE CONTROL VALVE
- 5. 1" PVC SCH 80 UNION
- 6. 1"x3" PVC SCH 80 NIPPLE (4 REQ.)
- 7. 3/4" CRUSHED GRAVEL, MIN. 5" DEPTH
- 8. LANDSCAPE FABRIC
- 9. MAINLINE / MANIFOLD PIPE: DEPTH PER SPECS.
- 10. MAINLINE PVC SCH 80 FITTING-REDUCING. USE PVC **BUSHING ON RCV OUTLET AS** REQUIRED TO DOWNSIZE PIPE
- 11. NOMINAL SIZE SOLID BRICK (MIN. 6 REQ.)
- 12. INVERTED RAIN BIRD JUMBO VALVE BOX, MODEL VBJMB
- 13. SIZE RISER PIPE PER OUTLET LATERAL SIZE

- 14. PVC SCH 80 EL, SIZE PER #11. PLACE OUTSIDE BOX
- 15. PVC SCH 40 SS COUPLING, SIZE PER #11
- 16. PVC SCH 40 BUSHING, SxT
- 17. 1" THREADED PVC BALL VALVE. REFER TO LEGEND FOR SPECIFICATION
- 18. CONTROL WIRES: PROVIDE 24" COIL OF WIRE AT VALVE
- 19. WIRE SPLICE CONNECTION
- 20. RCV ID TAG
- 21. 1" NETAFIM 40 PSI PRESSURE REGULATOR, MODEL WRPR1-40
- 22. 1" PVC SCH 40 MALE ADAPTER (REDUCING) Mipt x Socket. **OUTLET SIZE PER LATERAL** PIPE SIZE. REFER TO PLAN FOR SIZE
- 23. RAIN BIRD JUMBO RECTANGULAR SPECIFICATION GRADE VALVE BOX, MODEL VBJMB. HEAT BRAND 'RCV' AND ZONE # ON
- 24. FINISH GRADE



1. FINISH GRADE

- 2. ECO-INDICATOR
- DRIP MANIFOLD TEE OR EL
- PVC DRIP MANIFOLD PIPE. SEE SPECIFICATIONS FOR DEPTH REQUIREMENTS
- SWING JOINT: HUNTER 'PRO-FLEX' TUBING,
- 6. 1/2" MARLEX STREET EL

HSBE-050 ELBOWS (2)

- 7. MULCH LAYER
- 8. ALTERNATE INSTALL: WHEN ATTACHING UNIT TO DRIP TUBING CONTRACTOR MAY INSTALL UNIT USING 1/2" BARBED INSERT FITTINGS AND DRIP POLYETHYLENE TUBING

SCALE: N.T.S.

- A. INSTALL ONE (1) ECO-ID WITHIN EACH PLANTER TO SHOW EXTENT OF ZONE WHILE UNDER
- OPERATION. DUE TO CLARITY ISSUES ECO-ID SYMBOLS ARE NOT SHOWN ON PLAN.
- CONTRACTOR SHALL REVIEW EACH DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF ECO-ID UNITS TO INSTALL. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNITS
- REQUIRED ON THE PROJECT IN TURF AREAS INSTALL UNIT 1/2" ABOVE FINISHED GRADE.
- IN SHRUB AREAS INSTALL UNIT 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS
- DUE TO NO FACTORY INSTALLED CHECK VALVE INSTALL AT HIGH POINTS OF ZONE, OR INSTALL HUNTER MANUALLY INSTALLED CHECK VALVE, P/N 462237SP.



DRIP ZONE OPERATION INDICATOR ASSEMBLY

13931.000

IRRIGATION DETAILS

KAISER PERMANENTE®

FOLSOM MOB

SMITHGROUP

550 SOUTH HOPE STREET

REV DATE

LOS ANGELES, CA 90071

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SEALS AND SIGNATURES

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SCALE: N.T.S.

RCV ASSEMBLY FOR DRIPLINE & POINT SOURCE SYSTEMS

B. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF

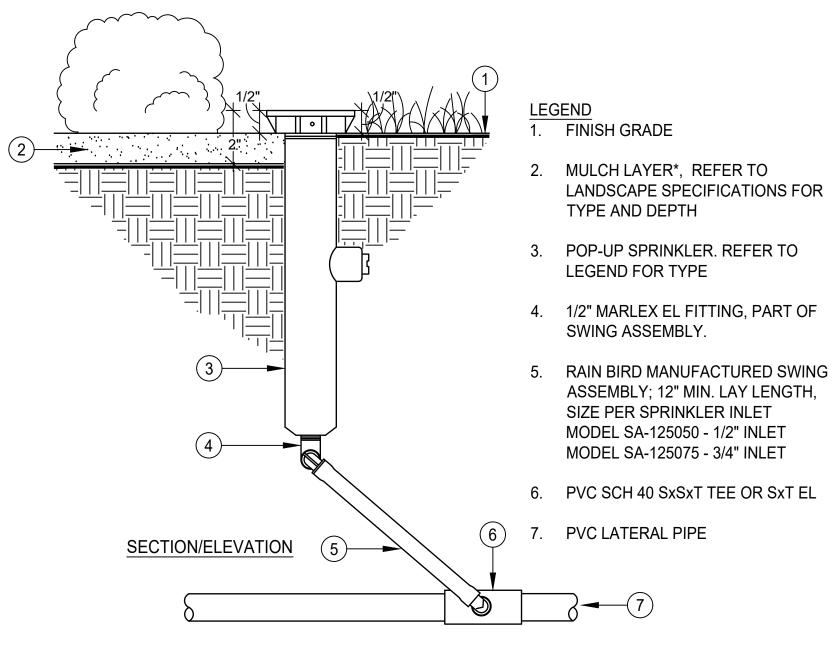
ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

C. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1"

SHEET NUMBER

PROJECT NUMBER

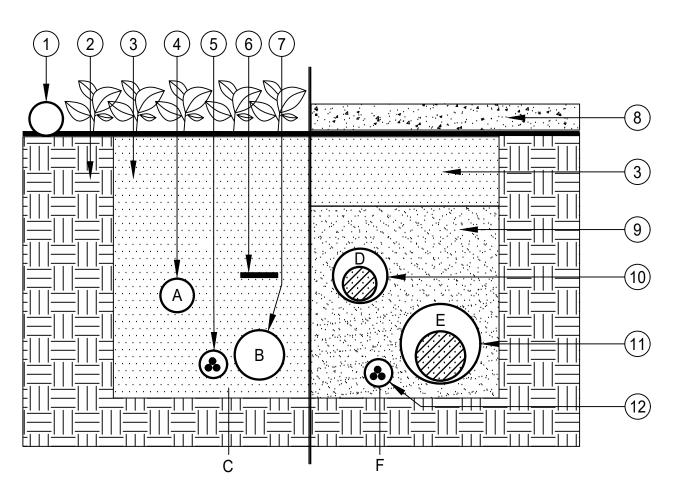
L9.2.2



SCALE: N.T.S.

- USE TEFLON TAPE ON ALL EXPOSED THREADS.
- WHERE A MULCH LAYER IS USED AS GROUND COVER INSTALL TOP OF SPRINKLER BODY 1/2" ABOVE MULCH COVER, AT NO TIME SHALL MULCH BURY THE CAP.
- WHEN MULCH LAYER IS NOT PRESENT INSTALL TOP OF SPRINKLER BODY 2" ABOVE FINISH GRADE.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- INSTALL SPRINKLER HEADS 6" FROM PAVING EDGE IN GROUND COVER AREAS.
- INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN TURF AREAS.
- G. INSTALL SPRINKLER HEADS 12" FROM ALL BUILDINGS, WALLS, AND FENCES.
- INSTALL SPRINKLER HEADS PLUMB.
- ADJUST SPRAYS OR NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS, OR BUILDINGS. DO NOT SCALE DRAWINGS.

POP-UP SPRINKLER



SECTION/ELEVATION

<u></u>				_		
DEPTH CHART	Α	В	С	D	Е	F
6" & LARGER	-	36"	36"	36"	36"	36"
3" & 4"	18"	24"	24"	30"	36"	36"
21/2" & SMALLER	12"	18"	18"	24"	30"	30"
WIRING	-	-	BESIDE	-	-	BESIDE

- A. SLEEVE UNDER PEDESTRIAN WALKWAYS SHALL EQUAL DEPTHS
- INDICATED IN COLUMNS A, B, & C. B. LINES MUST HAVE MIN. CLEARANCE OF 4" FROM EACH OTHER & 12" FROM OTHER TRADES
- C. RUN WIRING BESIDE MAINLINE AT LOCATION SHOWN, TAPE & BUNDLE
- @ 10' O.C. D. TIE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION, WHEN NOT
- E. ALL SLEEVES MUST BE 2X THE DIAMETER OF THE PIPE WITHIN.

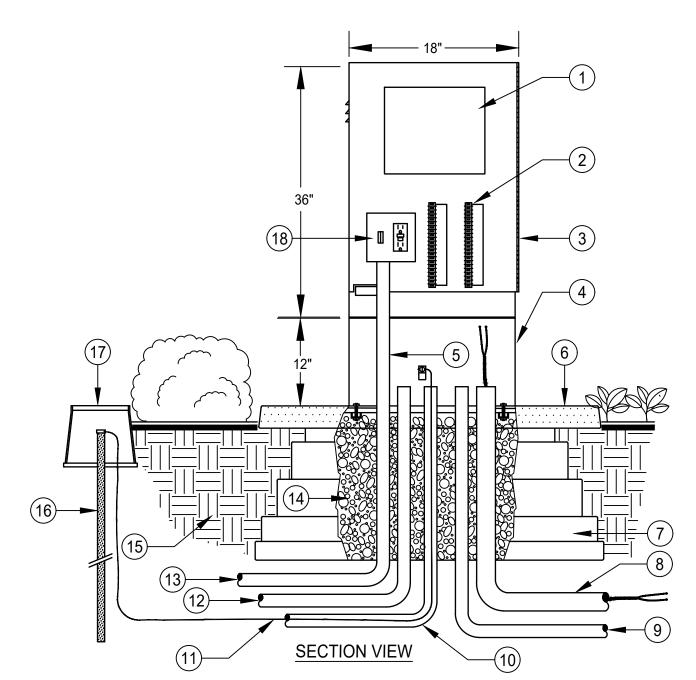
INSTALLED WITHIN CONDUIT.

- ALL SLEEVE ENDS MUST BE SEALED WITH FOAM SEALANT INSIDE PIPE TO MINIMIZE DEBRIS INTRUSION. ALL SLEEVES MUST EXTEND 12" MIN.
- DISTANCE PAST EDGE OF ROADWAY, CURB, OR SIDEWALK. CONTRACTOR MUST ADJUST MAINLINE AROUND ALL STREET LIGHT LOCATIONS, LIGHT BOLLARDS, TREE ROOT BALLS, (MIN. 5' CLEARANCE), AND OTHER

OBSTACLES.

ON-GRADE LATERAL

- 2. UNDISTURBED SOIL
- COMPACTED **BACKFILL**
- 4. LATERAL LINE
- 2-WIRE CABLE WITHIN ELECTRICAL CONDUIT
- MAINLINE TRACER TAPE OR AWG #6 BARE COPPER TRACER WIRE, REFER TO LEGEND FOR SPECIFICATION
- MAINLINE, REFER TO LEGEND FOR **SPECIFICATION**
- ROADWAY / PAVING
- 9. SAND BACKFILL
- 10. LATERAL LINE SLEEVE
- 11. MAINLINE SLEEVE
- 12. CONTROL WIRE SLEEVE



SCALE: N.T.S.

В

- x 96" OR 1/32" x 18" x 24" IN SIZE. REFER TO LEGEND FOR SPECIFICATION AND
- GROUNDING DETAILS WITHIN PACKAGE FOR ADDITIONAL INFORMATION. B. GROUNDING RODS AND PLATES SHALL BE COMPLETELY SURROUNDED WITH MINIMUM 1 INCH THICKNESS OF GROUNDING ENHANCEMENT MATERIAL PER GROUNDING EQUIPMENT MANUFACTURERS. REFER TO MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PEDESTAL MOUNT CONTROLLER ASSEMBLY

- 1. IRRIGATION CONTROLLER, INSTALLED WITHIN ENCLOSURE, REFER TO LEGEND FOR SPECIFICATION
- 2. CONTROLLER ENCLOSURE TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION
- 3. FRONT OPENING STAINLESS STEEL PEDESTAL. REFER TO LEGEND FOR SPECIFICATION
- 4. 12" RISER PEDESTAL EXTENSION. REFER TO LEGEND FOR SPECIFICATION
- 5. 120 VOLT SERVICE IN ELECTRICAL CONDUIT
- 6. PREFORMED ALUMINUM PAD, PART OF 'QUICKPAD' **ASSEMBLY**
- 7. V.I.T. PRODUCTS (STRONGBOX) ENCLOSURE MOUNTING PAD; 'QUICKPAD' WITH PREFORMED ALUMINUM PAD, PLASTIC BASE AND ALL STAINLESS STEEL HARDWARE
- 8. 2" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR CONTROL WIRES
- 9. 3/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR HARDWIRED PHONE COMMUNICATION LINE, INSTALL ONLY IF REQUIRED
- 10. 3" SCH 40 ELECTRICAL CONDUIT WITH SWEEP EL FOR **GROUND WIRE**

- 11. #6 AWG GROUND WIRE. PROVIDE ONE WIRE EACH TO GROUND ROD AND TO GROUND PLATE. (PLATE NOT
- SHOWN) 12. 3/4" SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL
- FOR FLOW SENSOR CABLE. INSTALL ONLY IF SEPARATE FLOW SENSOR WIRES ARE REQUIRED

13. SCH 40 ELECTRICAL CONDUIT WITH SWEEP ELL FOR

117 VAC POWER - SIZE PER ELECTRICAL REQUIREMENTS

14. FILL BASE OF 'QUICKPAD' WITH 3/4" CRUSHED

GRAVEL TO TOP OF BASE UNIT

- 15. COMPACTED SITE SOIL
- 16. COPPER GROUND ROD, MINIMUM SPECIFICATION: 5/8"X8' WITH CADWELD 'ONE-SHOT' CONNECTION. INSTALL INSIDE A 10" ROUND BOX, GROUND ROD TO BE LOCATED WITHIN 8' TO 15' OF CONTROLLER. CONTRACTOR SHALL INSTALL PER CONTROLLER MANUFACTURER'S SPECIFICATION. (GROUND PLATE/WIRE NOT SHOWN. REFER TO GROUNDING DETAIL)
- 17. 10" ROUND SPECIFICATION GRADE VALVE BOX
- 18. ON/OFF SWITCH AND GFI OUTLET RECEPTACLE AS PART OF ENCLOSURE ASSEMBLY
- 19. GROUND PLATE WITH CONNECTION NOT SHOWN

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ISSUED FOR REV DATE

9/26/2022

SEALS AND SIGNATURES

ENTITLEMENTS

IRRIGATION DETAILS

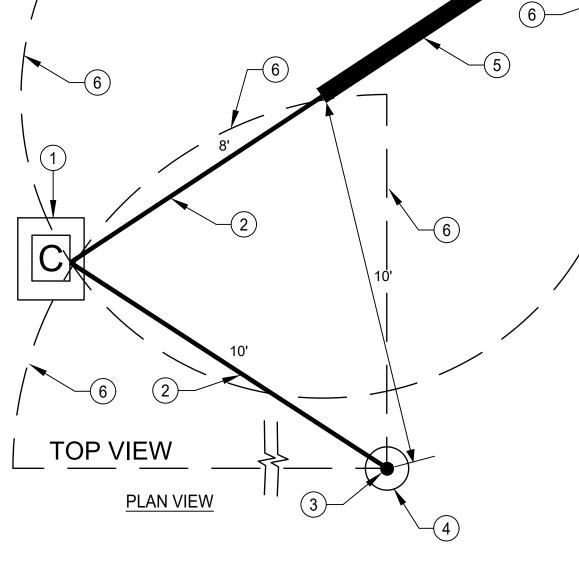
PROJECT NUMBER

PEDESTAL CONTROLLER GROUNDING SCALE: N.T.S.

LEGEND 1. CONTROLLER ASSEMBLY PEDESTAL. REFER TO LEGEND FOR SPECIFICATION

SIDE VIEW

- PVC ELECTRICAL SWEEP ELL (1-½" OR LARGER)
- 3. #6 AWG SOLID BARE **COPPER WIRE**
- 4. U.L. APPROVED 4"x96" COPPER GROUND PLATE
- GROUNDING ENHANCEMENT EARTH CONTACT MATERIAL. SEE NATIONAL ELECTRIC CODE FOR SPECIFICATION
- 6. 5/8"x8' COPPER CLAD GROUND ROD, U.L. APPROVED
- 7. CADWELD 'ONE-SHOT' CONNECTION
- 8. 10" ROUND SPECIFICATION GRADE VALVE BOX



LEGEND CONTROLLER ASSEMBLY PEDESTAL

- 2. #6 AWG SOLID ISULATED COPPER WIRE
- 3. U.L. APPROVED 5/8"x8' COPPER GROUND ROD WITH CADWELD 'ONE-SHOT' WIRE CONNECTION, OR CONNECTION BY PAIGE ELECTRIC. INSTALL 10' FROM GRD. PLATE
- 4. 10" ROUND SPECIFICATION GRADE VALVE BOX
- APPROVED, WITH WIRE CONNECTION BY PAIGE ELECTRIC. INSTALL 10' FROM GRD.

4"x96" COPPER GROUND PLATE, U.L.

10' RADIUS CIRCLE ELECTRICAL SURGE 'SPHERE OF INFLUENCE'. AT NO TIME SHALL CONTROL WIRES/CABLE PASS THROUGH THIS AREA. ROUTE ALL CONTROL WIRE/CABLE AROUND THIS AREA TO CONTROLLER

PIPE / WIRE / SLEEVE INSTALLATION

SCALE: N.T.S.

A. INSTALL 10" ROUND

CONNECTION

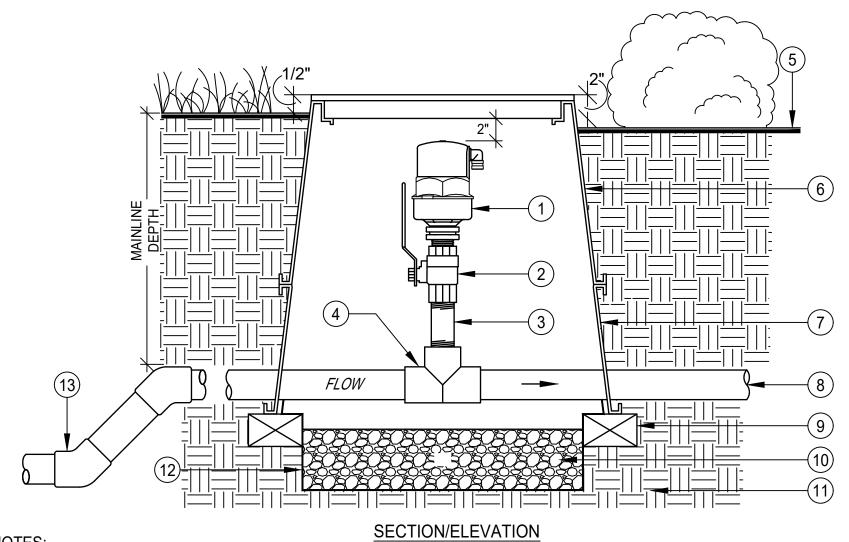
SPECIFICATION GRADE VALVE

BOX OVER ROD WITH TOP OF **GROUND ROD EXPOSED WITH**

CADWELD 'ONE-SHOT'

SHEET NUMBER

L9.2.3



- INSTALL AIR VENT PER MANUFACTURES RECOMMENDATIONS
- IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.
- TO REACH MAINLINE DEPTH SHALL BE MAINTAINED

1. AIR/VACUUM CONTINUOUS

ACTING AIR VENT. REFER TO LEGEND FOR SPECIFICATION

2. BRASS BALL VALVE FOR ISOLATION

3. SCH 80 PVC NIPPLE, LENGTH AS NECESSARY

4. SCH 80 OR CL315 PVC

MAINLINE SXSXT TEE

BOX WITH LOCKING LID. HEAT

BRAND "ARV" ON LID IN 2" HIGH

5. FINISH GRADE

8. MAINLINE

9. COMMON BRICK SUPPORTS (4 REQUIRED) 6. RECTANGULAR PLASTIC VALVE

10. FILL BASE OF BOX WITH 3/4"

11. COMPACTED NATIVE SOIL

7. RECTANGULAR PLASTIC VALVE

12. FILTER FABRIC - COVER ALL **BOX HOLES**

13. 45 DEGREE ELBOW

" AIR/VACUUM CONTINUOUS ACTING AIR VENT

BLOCK LETTERS

BOX EXTENSION



1. 1/4-INCH TUBING STAKE: RAIN BIRD, MODEL TS-025. QTYS. - ONE PER EMITTER. SEE EMITTER TABLE FOR QUANTITY OF EMITTERS PER PLANT

INSIDE VIEW OF 2. PVC LATERAL PIPE XERI-BIRD 8

3. 3/4" CRUSHED GRAVEL, MIN. 3" DEPTH

4. PVC SCH 40 TEE/ELL FITTING

5. PVC SCH 80 NIPPLE, 1/2" x 10" LENGTH

1/4" DISTRIBUTION TUBING: RAIN BIRD, MODEL XQ

AMENDED SITE SOIL

FINISH GRADE

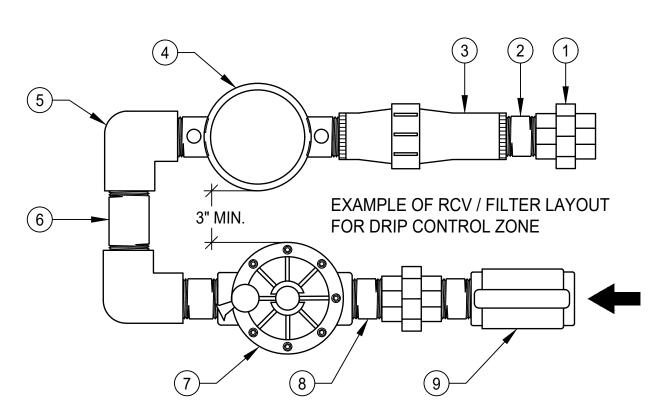
9. MULCH LAYER. REFER TO LANDSCAPE SPECIFICATIONS FOR TYPE AND DEPTH

10. MULTI-OUTLET EMISSION DEVICE: RAIN BIRD XERIBIRD 8, MODEL XBD-80 (W/O EMITTERS)

11. 7-INCH VALVE BOX: RAIN BIRD MODEL SEB-7XB

12. DIFFUSER BUG CAP: RAIN BIRD MODEL DBC-025 (TYP.)

13. EMITTER: RAIN BIRD MODELS. SEE EMITTER TABLE FOR TYPE AND QUANTITY OF EMITTERS PER PLANT



- CONTRACTOR MAY INSTALL DRIP RCV ASSEMBLY AS SHOWN B. REFER TO DETAIL LI-5.02/D FOR VALVE BOX INSTALLATION.

1. 1" PVC SCH 80 UNION. (2 REQ.)

2. SCH 80 NIPPLE, 1" x CL, (2 REQ.)

REQUIRED TO HAVE SEPARATION OF RCV AND FILTER

1" NETAFIM 40 PSI PRESSURE

REGULATOR, MODEL WRPR1-40

4. 1" NETAFIM DISC FILTER WITH 140

MESH (BLK) RINGS, MODEL DF100-140

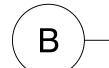
7. 1" REMOTE CONTROL VALVE

8. SCH 80 NIPPLE, 1" X 2", (3 REQ.)

SCH 80 NIPPLE, 1" x SIZE AS

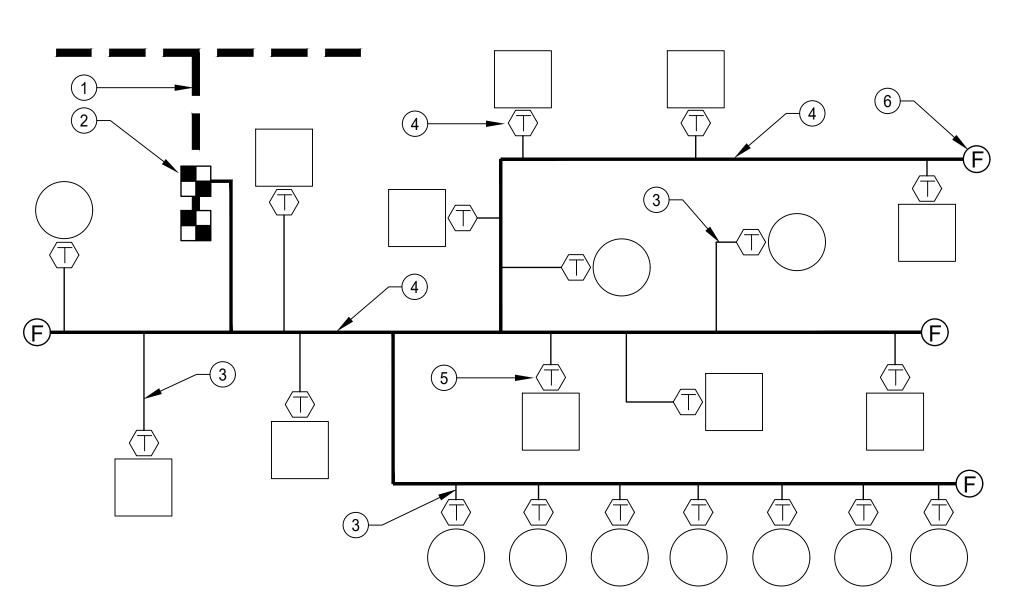
9. 1" THREADED PVC BALL VALVE. REFER TO LEGEND FOR **SPECIFICATION**

5. 1" SCH 80 TT EL (2 REQ.)



DRIP RCV ASSEMBLY ALTERNATE INSTALLATION

SCALE: N.T.S.

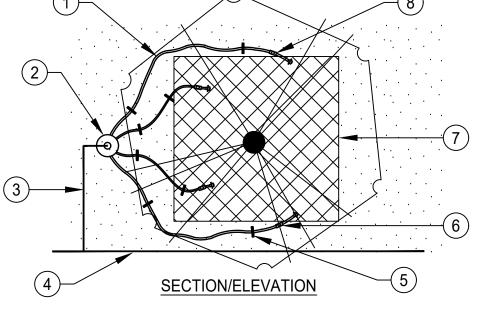


A. CONTRACTOR SHALL ROUTE LATERAL PIPE THROUGHOUT ZONE USING BEST INSTALLATION PRACTICES. B. PLACE MULTI-EMISSION MANIFOLD AT MINIMUM FORTY EIGHT INCHES (48") FROM TREE/PALM ROOT BALL, TYPICAL.

1. MAINLINE, REFER TO LEGEND FOR TYPE

- 2. TREE/PALM DRIP ZONE CONTROL VALVE ASSEMBLY, REFER TO LEGEND FOR SPECIFICATION
- 3. 1/2" SCH 40 PVC SUB-LATERAL PIPE TO DRIP MANIFOLD ASSEMBLY, TYPICAL
- 4. SCH 40 PVC LATERAL 'BACKBONE' PIPE. TYPICAL. REFER TO PLAN FOR SIZES
- 5. MULTI-EMISSION MANIFOLD DEVICE PLACEMENT EXAMPLE
- 6. FLUSH VALVE WITHIN 7" ROUND VALVE BOX, TYPICAL. SEE DETAIL LI-5.02/E





TREE EMITTER TABLE (SUN)				
PLANT SIZE	# OF EMITTERS			
15 GAL. TREE	3 - 2 GPH			
24" BOX TREE	4 - 2 GPH			
36" BOX TREE	4 - 5 GPH			
48" BOX TREE	6 - 5 GPH			
60" BOX TREE	6 - 7 GPH			
72" BOX TREE	6 - 10 GPH			
84" BOX TREE	8 - 12 GPH			
96" BOX TREE	8 - 18 GPH			

1. 1/4" DISTRIBUTION TUBING: RAIN BIRD, MODEL XQ

- 2. MULTI-OUTLET EMISSION DEVICE: RAIN BIRD XERI-BIRD 8, MODEL XBD-80 (W/O EMITTERS) INSTALLED WITHIN 7" SPECIFICATION GRADE VALVE BOX
- 3. 1/2" PVC SCH 40 LATERAL LINE PIPE
- 4. PVC SCH 40 LATERAL LINE PIPE, SEE SPECIFICATIONS FOR DEPTH REQUIREMENTS
- 5. GALVANIZED TIE-DOWN TUBING U-STAKE: RAIN BIRD, MODEL TDS-050
- 6. 1/4-INCH TUBING STAKE: RAIN BIRD, MODEL TS-025
- 7. ROOTBALL OF TREE
- 8. DIFFUSER BUG CAP: RAIN BIRD MODEL DBC-025

- A. PLACE MULTI-OUTLET DRIP MANIFOLD MINIMUM FORTY EIGHT INCHES (48") FROM EDGE OF ROOTBALL. ADJUST PER ROOTBALL SIZE, TYPICAL INSTALL REQUIRED AMOUNT OF EMITTERS, TUBING, AND BUG CAPS PER EMITTER TABLE. NUMBER OF EMITTERS IN DETAIL ARE FOR EXAMPLE ONLY.
- B. SLOPED AREAS: PLACE EMITTERS OFF-CENTER ON UPHILL SIDE OF TREE DEPENDING ON STEEPNESS, TO ALLOW WATER TO FLOW ACROSS ROOTBALL FOR MAXIMUM EFFECTIVE WATER USE.
- C. ROUTE 1/4" TUBING AROUND ROOTBALL ALONG OUTSIDE EDGE. DO NOT CROSS ROOTBALL AT ANY TIME. D. INSTALL RAIN BIRD U-STAKES, MODEL TDS-050 OVER 1/4" TUBING 4"-6"
- TUBING) AROUND ROOTBALL AT EDGE TO ELIMINATE TUBING MOVEMENT E. ALL 1/4" TUBING SHALL BE BURIED TO A MINIMUM DEPTH OF 2" BELOW SOIL SURFACE. EMITTER OUTLET AND BUG CAP SHALL BE PLACED AT

BEHIND EMITTER STAKE AND 1'O.C. (MIN. 2 STAKES PER 1/4" EMITTER

GRADE.

TREE DRIP MANIFOLD INSTALLATION

FOLSOM MOB 285 Palladio Pkwy, Folsom, CA 95630

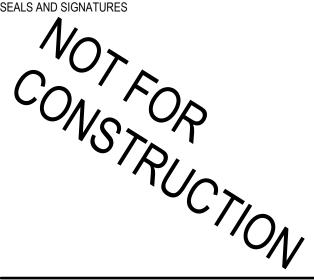
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ISSUED FOR REV DATE ENTITLEMENTS

SEALS AND SIGNATURES



IRRIGATION DETAILS

13931.000

PROJECT NUMBER L9.2.4

SHEET NUMBER

TREE DRIP EMITTER MANIFOLD ASSEMBLY

SECTION/ELEVATION

A. COIL ADDITIONAL 9-INCHES OF 1/4" TUBING IN VALVE BOX TO

B. INSTALLED VALVE BOX HEIGHT AT 1/2" ABOVE MULCH COVER.

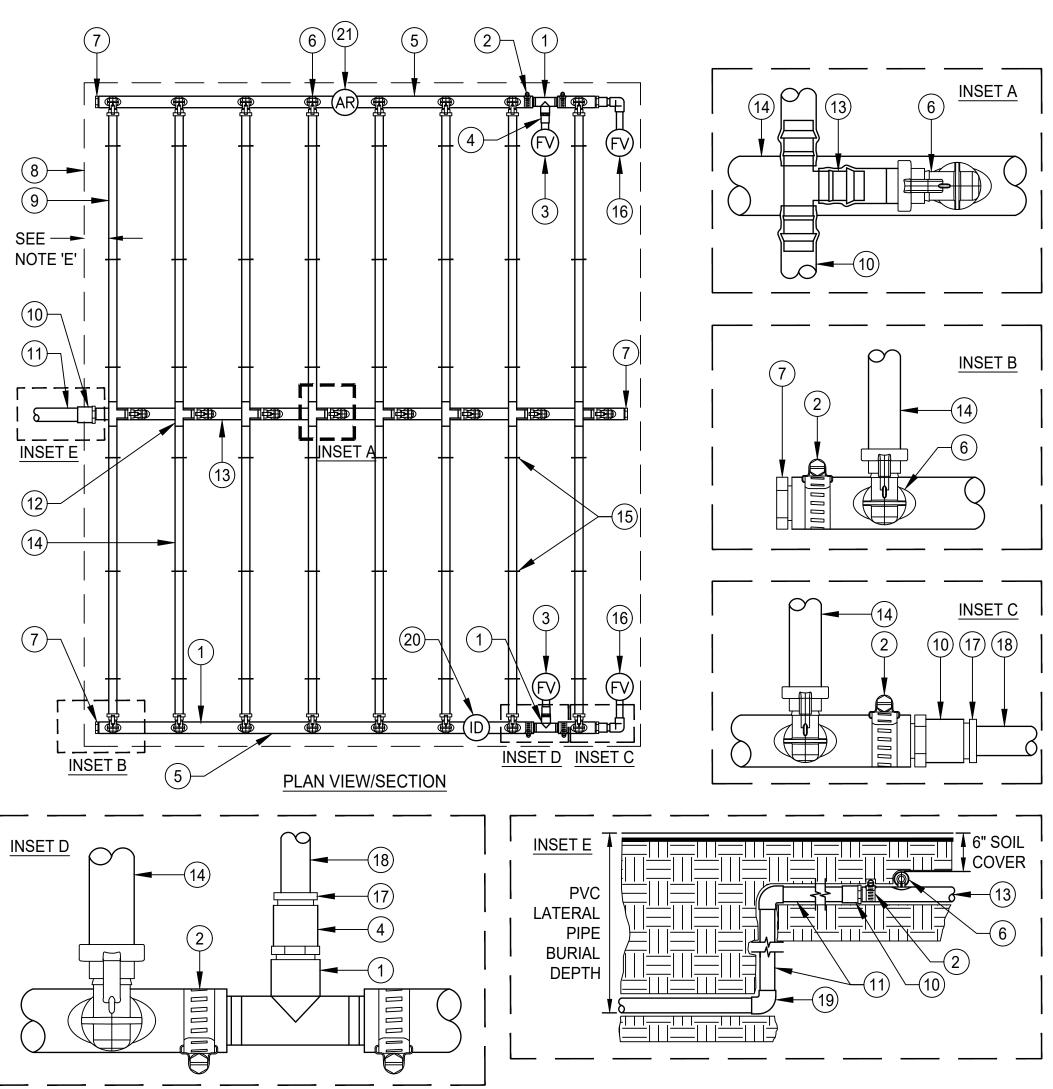
C. INSTALL MANIFOLD AT MINIMUM OF FORTY EIGHT INCHES (48")

SCALE: N.T.S.

FACILITATE MAINTENANCE.

FROM EDGE OF ROOTBALL.

SCALE: N.T.S.

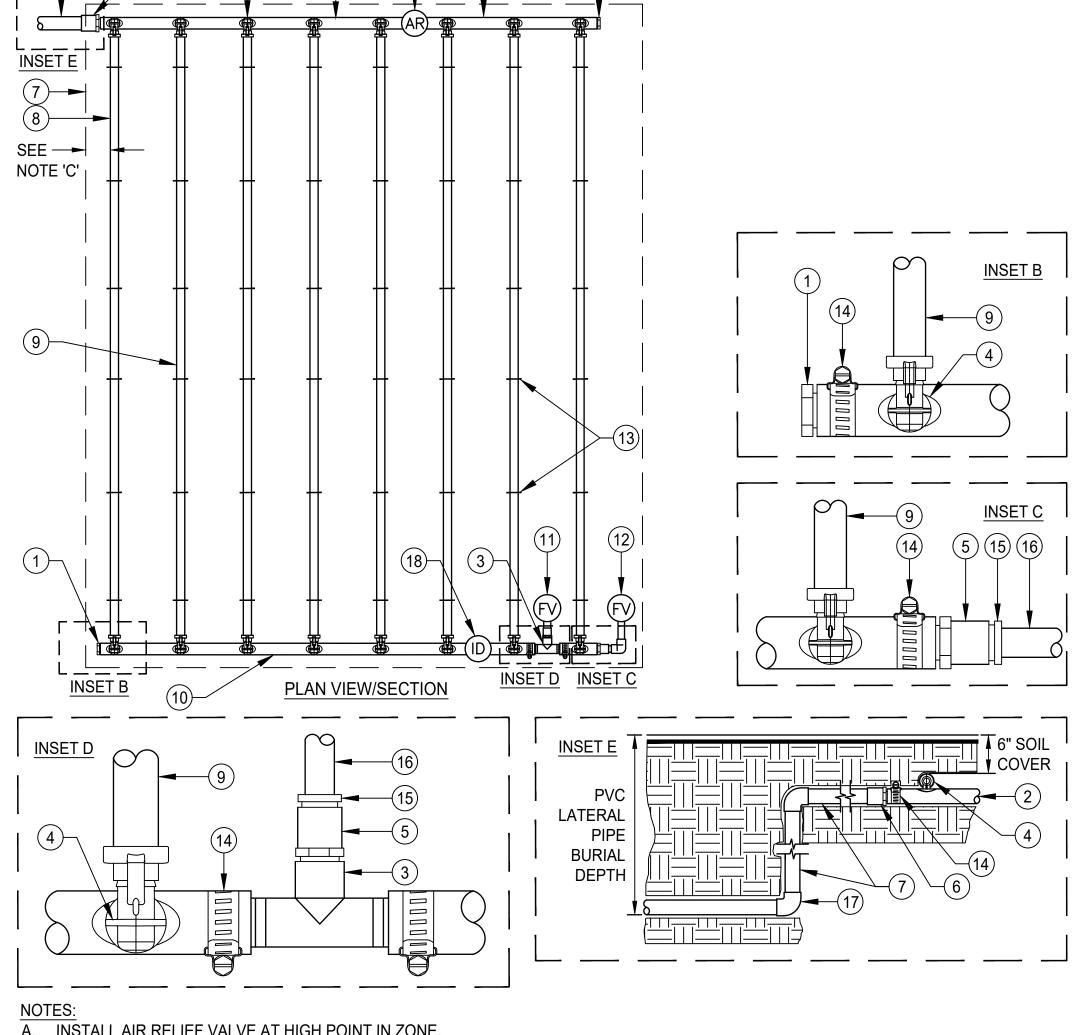


- INSTALL AIR RELIEF VALVE AT HIGH POINT IN ZONE
- RAIN BIRD 'QF' DRIPLINE HEADER -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS 6 GPM OR LESS.
- C. RAIN BIRD 'QF' DRIPLINE HEADER-USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 7 GPM TO 11 GPM MAXIMUM FLOW. FOR ZONES HIGHER THAN 11 GPM, UP TO 21 GPM FLOW THE USE OF TWO HEADERS INSTALLED IN PARALLEL ARE REQUIRED. OR USE 1-1/4" PVC PIPE. HIGHER FLOW THAN 21 GPM USE 1-1/2" PVC PIPE.
- D. QF-DRPLINE HEADER SHALL ALWAYS BE INSTALLED AT DEPTH TO ACCOMMODATE THE 6" INSTALLATION DEPTH FOR THE SUB-SURFACE DRIPLINE TUBING.
- E. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM
- SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT SHRUB AREAS. F. INSTALL SUB-SURFCE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
- G. AIR RELEASE / VACUUM VALVE WHERE SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR MUST INSTALL AT HIGHEST POINT IN ZONE SECTION AREA FOR PROPER VACUUM RELEASE ACTION.
- H. MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION OF SUPPLY MANIFOLD SHALL NOT EXCEED 150' FROM SUPPLY

LEGEND

- 1. PVC INSERT REDUCING TEE, SPEARS, MODEL 1402-101 OR 1402-130. (X" x 1/2") SIZED TO FIT QF DRIPLINE HEADER
- 2. STAINLESS STEEL CLAMP, OETIKER OR MURRAY TYPE
- 3. FLUSH VALVE ASSEMBLY WITHIN 7" ROUND BOX. (INSTALLATION FOR TURF ZONE, TYP.) REFER TO LEGEND FOR SPECIFICATION
- 4. PVC 1/2" MALE ADAPTER (MIPTXSOC), SPEARS, MODEL 436-005
- 5. RAIN BIRD 'QF' DRIPLINE EXHAUST HEADER: -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS LESS THAN 12 -USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 12 GPM TO 22 GPM
- 6. PRE-INSTRALLED BARB FITTING (TYP.)
- 7. PVC INSERT PLUG. SPEARS, MODEL 1449-007 OR 1449-010. SIZED TO FIT QF DRIPLINE HEADER. SEE INSET 'A'
- 8. EDGE OF PERIMETER (PLANTER) AREA
- 9. PERIMETER DRIPLINE TO BE INSTALLED MAXIMUM OF 3" FROM EDGE OF PERIMETER IN TURF AND 9" FROM EDGE OF PERIMETER IN SHRUB AREA
- 10. PVC INSERT MALE ADAPTER (BARB X SOC), SPEARS, MODEL 474-007 (3/4") OR 474-010 (1"). SIZED TO FIT QF DRIPLINE HEADER
- 11. PVC SUPPLY PIPE FROM RCV (SIZED TO MEET LATERAL FLOW

- DEMAND, REFER TO PLAN FOR SIZE), INSTALL AT PVC LATERAL
- PIPE DEPTH PER SPECIFICATIONS
- 12. BARB INSERT FITTING: RAIN BIRD, XFF-TEE. SEE INSET 'A'
- 13. RAIN BIRD 'QF' DRIPLINE SUPPLY HEADER: -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS 6 GPM OR LESS -USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 7 GPM TO 11 GPM
- 14. SUB-SURFACE DRIPLINE TUBING. REFER TO LEGEND FOR **SPECIFICATION**
- 15. GALVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. (TYPICAL) REFER TO LEGEND FOR SPACING
- 16. FLUSH VALVE ASSEMBLY WITHIN 7" ROUND BOX. (INSTALLATION IN SHRUB PLANTER, TYP.) REFER TO LEGEND FOR SPECIFICATION
- 17. PVC SCH 40 REDUCER BUSHING (1"x1/2" or 3/4"x1/2")
- 18. PVC PIPE TO FLUSH VALVE ASSEMBLY. REFER TO FV ASSEMBLY DETAIL FOR ASSEMBLY CONSTRUCTION
- 19. PVC SCH 40 ELL (TYP.)
- 20. ECO-ID ZONE OPERATION INDICATOR
- 21. AIR RELIEF VALVE: RAIN BIRD, MODEL ARV050, WITHIN 7" ROUND VALVE BOX. CONNECTED TO QF PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY



- INSTALL AIR RELIEF VALVE AT HIGH POINT IN ZONE.
- B. RAIN BIRD 'QF' DRIPLINE HEADER -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS 6 GPM OR LESS
- C. RAIN BIRD 'QF' DRIPLINE HEADER-USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 7 GPM TO 11 GPM MAXIMUM FLOW. FOR ZONES HIGHER THAN 11 GPM, UP TO 21 GPM FLOW THE USE OF TWO HEADERS INSTALLED IN PARALLEL ARE REQUIRED, OR USE 1-1/4" PVC PIPE. HIGHER FLOW THAN 21 GPM USE 1-1/2" PVC PIPE.
- D. QF-DRPLINE HEADER SHALL ALWAYS BE INSTALLED AT DEPTH TO ACCOMMODATE THE 6" INSTALLATION DEPTH FOR THE
- SUB-SURFACE DRIPLINE TUBING. E. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM
- SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT SHRUB AREAS.
- F. INSTALL SUB-SURFCE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
- G. AIR RELEASE / VACUUM VALVE WHERE SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR MUST INSTALL AT HIGHEST POINT IN ZONE SECTION AREA FOR PROPER VACUUM RELEASE ACTION.
- H. MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION OF SUPPLY MANIFOLD SHALL NOT EXCEED 200' FROM SUPPLY MANIFOLD.
- 1. PVC INSERT PLUG. SPEARS, MODEL 1449-007 OR 1449-010. SIZED TO FIT QF DRIPLINE HEADER. SEE INSET 'A'
- 2. RAIN BIRD QF DRIPLINE SUPPLY HEADER: -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS 6 GPM OR
- -USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 7 GPM TO 11
- 3. PVC INSERT REDUCING TEE, SPEARS, MODEL 1402-101 OR 1402-130. (X" X 1/2") SIZED TO FIT QF DRIPLINE HEADER
- 4. PRE-INSTRALLED BARB FITTING (TYP.)
- 5. PVC INSERT MALE ADAPTER (BARB x SOC), SPEARS, MODEL 474-007 (3/4") or 474-010 (1"). SIZED TO FIT DRIPLINE HEADER
- 6. PVC SUPPLY PIPE FROM RCV (SIZED TO MEET LATERAL FLOW DEMAND, REFER TO PLAN FOR SIZE). INSTALL AT PVC LATERAL PIPE DEPTH PER SPECIFICATION
- 7. EDGE OF PERIMETER (PLANTER) AREA
- 8. PERIMETER DRIPLINE TO BE INSTALLED MAXIMUM OF 3" FROM EDGE OF PERIMETER IN TURF AND 9" FROM EDGE OF PERIMETER IN SHRUB AREAS
- 9. SUB-SURFACE DRIPLINE TUBING. REFER TO LEGEND FOR **SPECIFICATION**

- 10. QF-MANIFOLD EXHAUST HEADER: -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS LESS THAN 10 -USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 11 GPM TO 15
- 11. FLUSH VALVE ASSEMBLY (TYP.) WITHIN 7" ROUND BOX. (INSTALLATION FOR TURF ZONE, TYP.) REFER TO LEGEND FOR SPECIFICATION
- FLUSH VALVE ASSEMBLY WITHIN 7" ROUND BOX. (INSTALLATION IN SHRUB PLANTER, TYP.) REFER TO LEGEND FOR SPECIFICATION
- 13. GALVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. REFER TO LEGEND FOR SPACING
- 14. STAINLESS STEEL CLAMP, OETIKER OR MURRAY TYPE
- 15. PVC REDUCER BUSHING, SPEARS, MODEL 437-101 or 437-130. SIZED TO FIT INSERT ADAPTER (3/4"x1/2" or 1"x1/2")
- 16. 1/2" PVC PIPE TO FLUSH VALVE ASSEMBLY. REFER TO FV ASSEMBLY DETAIL FOR ASSEMBLY CONSTRUCTION
- 17. PVC SCH 40 ELL (TYP.)
- 18. ECO-ID ZONE OPERATION INDICATOR
- 19. AIR RELIEF VALVE: RAIN BIRD, MODEL ARV050, WITHIN 7" ROUND VALVE BOX. CONNECTED TO QF PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY



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SSUED FOR	REV	DATE
NTITLEMENTS	_	9/26/2022

SEALS AND SIGNATURES



IRRIGATION DETAILS

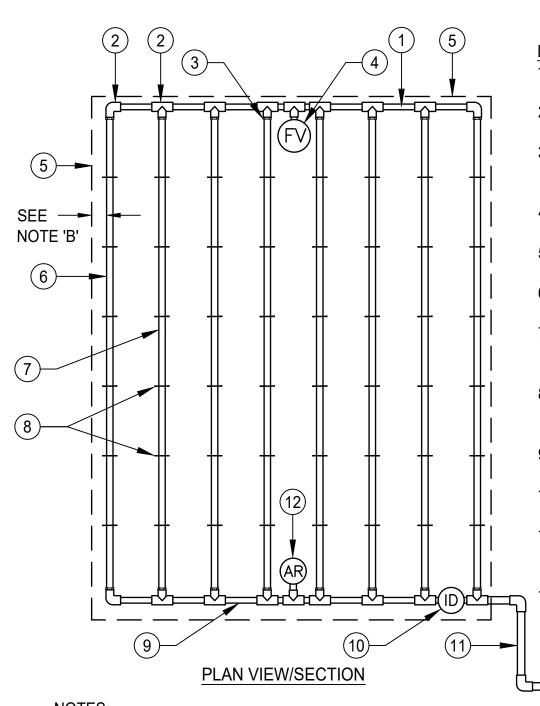
PROJECT NUMBER

SHEET NUMBER

L9.2.5







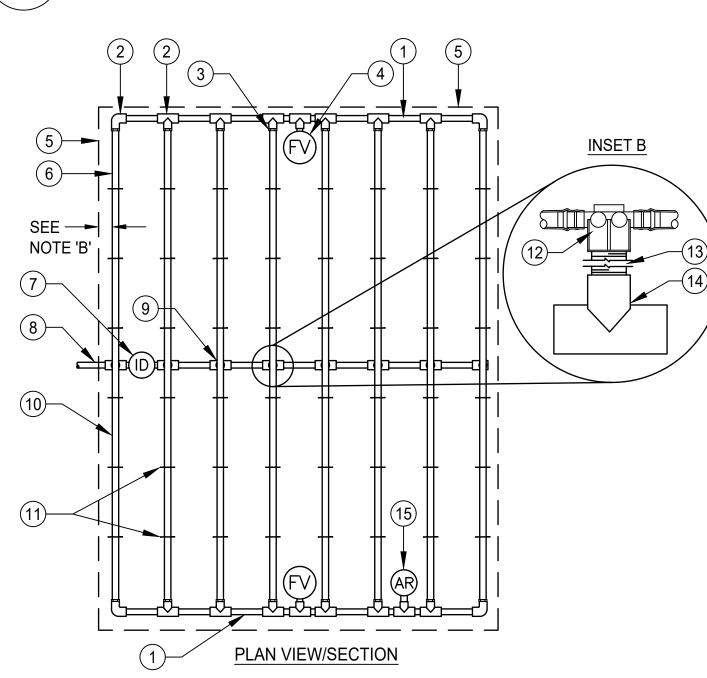
PVC EXHAUST HEADER

- PVC SCH 40 TEE OR ELL (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XFF-MA-XXX FITTING (TYPICAL)
- 4. FLUSH VALVE (TYPICAL) WITHIN 10" ROUND BOX
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED
- SUB-SURFACE DRIPLINE TUBING: REFER TO LEGEND FOR SPECIFICATION
- GALVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. (TYPICAL)
- SUPPLY HEADER
- 10. ECO-ID ZONE OPERATION INDICATOR
- 11. LATERAL PIPE SUPPLY MANIFOLD WITHIN A 12" TRENCH, PER PIPE DETAIL
- AIR / VACUUM RELIEF VALVE, REFER TO LEGEND FOR SPECIFICATION. INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY

- INSTALL AIR RELIEF VALVES AT ALL HIGH POINT(S) IN ZONE.
- DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 16" APART FOR FLAT SHRUB AREAS.
- C. INSTALL SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS
- PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY SOILS.
- MAXIMUM TUBING LENGTH OF RUN SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

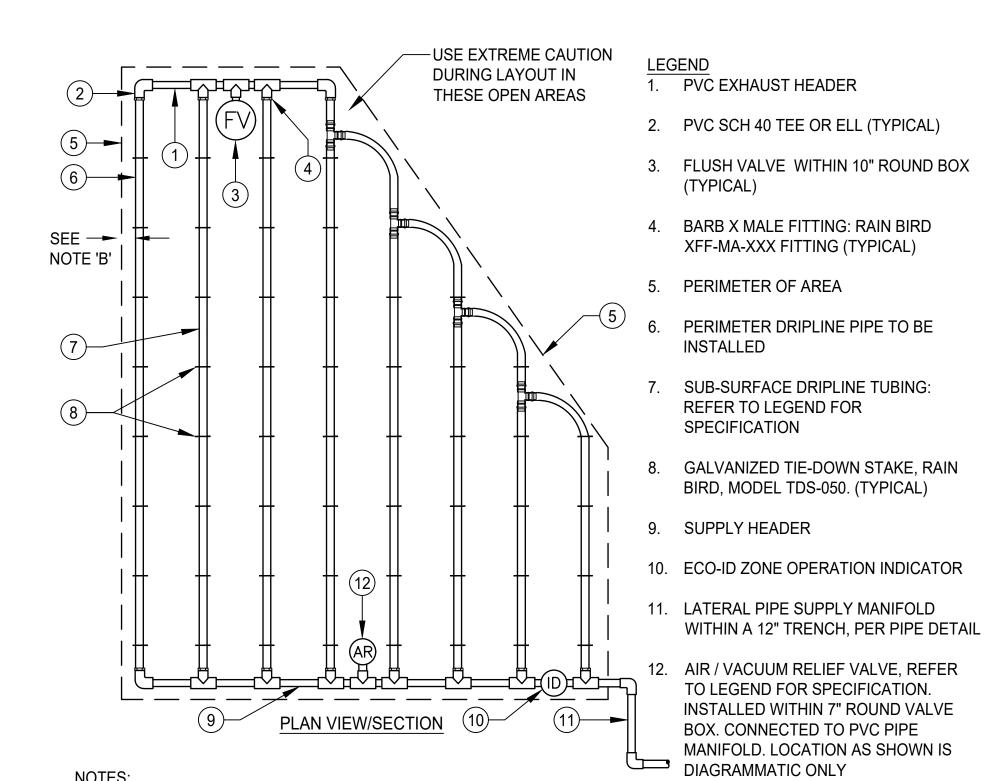
DRIPLINE- END FEED LAYOUT

SCALE: N.T.S.



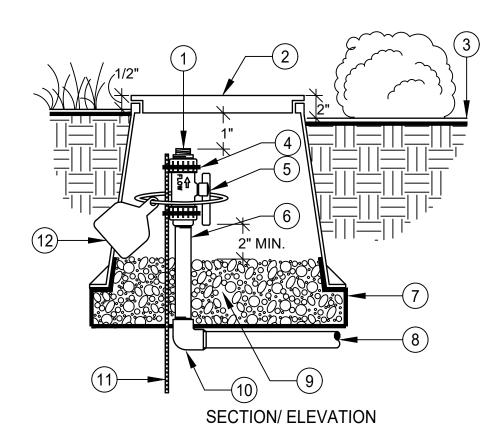
- A. INSTALL AIR RELIEF VALVES AT ALL HIGH POINT(S) IN ZONE.
- DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT SHRUB AREAS
- C. INSTALL SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
- D. PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY.
- E. MAXIMUM TUBING LENGTH OF RUN IN EITHER DIRECTION SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

- 1. PVC EXHAUST HEADER
- 2. PVC SCH 40 FEMALE THRD TEE (SSF) OR ELL (SF) (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XFF-MA-XXX FITTING (TYPICAL)
- FLUSH VALVE (TYPICAL) WITHIN 10" **ROUND BOX**
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED
- ECO-ID ZONE OPERATION **INDICATOR**
- LATERAL PIPE SUPPLY MANIFOLD WITHIN A 12" TRENCH, PER PIPE DETAIL
- CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)-SEE INSET B
- 10. SUB-SURFACE DRIPLINE TUBING: REFER TO LEGEND FOR SPECIFICATION
- 11. GALVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. (TYPICAL)
- 12. BARB x FEMALE FITTING: RAIN BIRD XFD-TFA-075 OR XFF-TMA-050 WITH PVC THREADED COUPLER
- 13. PVC SCH 80 NIPPLE, 6" LENGTH FOR 12" LATERAL PIPE TRENCH DEPTH
- 14. PVC SCH 40 TEE OR EL, SxF
- 15. AIR / VACUUM RELIEF VALVE, REFER TO LEGEND FOR SPECIFICATION. INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY



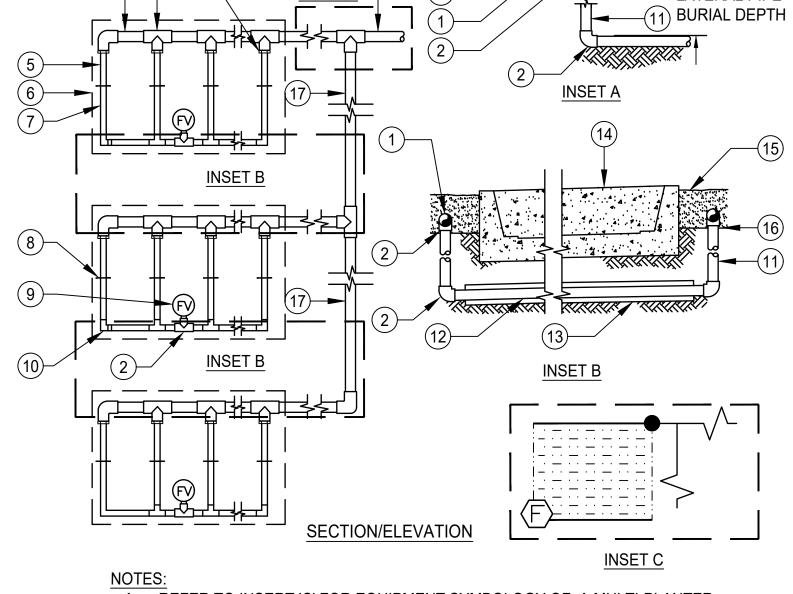
- INSTALL AIR RELIEF VALVES AT ALL HIGH POINT(S) IN ZONE DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT SHRUB AREAS
- INSTALL SUB-SURFACE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS
- D. PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY SOILS
- MAXIMUM TUBING LENGTH OF RUN SHALL NOT EXCEED 150' FROM LATERAL PIPE SUPPLY MANIFOLD.

DRIPLINE- IRREGULAR FEED LAYOUT SCALE: N.T.S.



- A. FOR TREE/PALM ZONES: PLACE FLUSH VALVE AT MINIMUM FORTY EIGHT (60") INCHES FROM TREE/PALM ROOT BALL,
- TYPICAL. B. POINT SOURCE DRIP ZONES: INSTALL ON PVC 'BACKBONE' PIPE. INSTALL ONE (1) FV IN EACH DIRECTION FROM RCV AT MINIMUM, OR AS MANY AS SHOWN ON THE PLAN IN ANY ZONE.
- C. FOR SUB-SURFACE DRIPLINE ZONE: INSTALL ONE (1) FV FOR MAXIMUM OF EVERY 800 FEET OF TUBING. OR PART THEREOF, IN ANY ZONE.
- D. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND. DUE TO FIELD CHANGES OR OTHER UNFORESEEN ISSUES TOTAL FLUSH VALVE SYMBOLS SHOWN ON PLAN MAY NOT
- EQUAL TOTAL QUANTITY OF FLUSH VALVE'S REQUIRED. CONTRACTOR SHALL REVIEW TREE DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF FV'S TO INSTALL. DUE TO FIELD CHANGES OR OTHER REASONS TOTAL FLUSH VALVE SYMBOLS SHOWN ON PLAN MAY NOT EQUAL TOTAL QUANTITY OF FV'S REQUIRED.
- G. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.
- H. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- BRASS HOSE/PIPE ADAPTER, ARROWHEAD **BRASS/CHAMPION IRRIGATION** PRODUCTS, MODEL #10F (3/4" MALE HOSE THREAD TO 1/2" MALE PIPE THREAD)
- 2. 7" ROUND SPECIFICATION GRADE VALVE BOX, HEAT BRAND "FV" ONTO LID
- 3. FINISH GRADE
- 4. STAINLESS STEEL CLAMPS, TYP.
- 1/2" PVC SCH 80 THREADED BALL VALVE. REFER TO LEGEND FOR SPECIFICATION
- 6. SCH 80 PVC NIPPLE 1/2" x LENGTH AS REQUIRED
- 7. LANDSCAPE FABRIC
- 8. WHEN USED FOR SUB-SURFACE TUBING DRIP ZONES, REFER TO LEGEND: PVC SCH 40 PIPE FROM DRIP ZONE MANIFOLD 'FOOTER'. MANIFOLD PIPE SIZE BASED ON ZONE FLOW. REFER TO LEGEND FOR PIPE SIZE.
- 9. 3/4" CRUSHED GRAVEL, MIN. 5"-6" DEPTH
- 10. PVC SLIP (LINE SIZE) x 1/2" THREAD ELL (SF)
- 11. (#3) 3/8" x 24" REBAR STAKE
- 12. APPURTENANCE PURPLE ID TAG



- A. REFER TO INSERT 'C' FOR EQUIPMENT SYMBOLOGY OF A MULTI-PLANTER LAYOUT AS SHOWN ON PLANS. CONNECT PVC LATERAL PIPE TO DRIPLINE SUPPLY HEADER(S) AT BLACK DOT WHERE SHOWN ON PLANS. PLACE FLUSH VALVE ON EXHAUST HEADER/FOOTER AT FAR END OF PLANTER(S) WHERE SHOWN ON PLANS.
- DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT
- MATERIALS AND CHANGES IN ELEVATION. SEE LEGEND FOR SPECIFICATION. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
- PLACE TIE DOWN STAKES EVERY 3' IN SAND, 4' IN LOAM, AND 5' IN CLAY. AT FITTINGS WHERE THERE IS A CHANGE IN DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

DRIPLINE MAXIMUM LATERAL LENGTHS (FEET)						
	12" S _ī	pacing	18" Spacing		24" Spacing	
PSI	0.6 GPH	0.9 GPH	0.6 GPH	0.9 GPH	0.6 GPH	0.9 GPH
40	150	150	200	200	300	300

- 1. PVC SUPPLY HEADER PIPE
- 2. PVC SCH 40 TEE OR EL (TYPICAL) BARB X MALE FITTING (TYPICAL):

RAIN BIRD, XFF-MA-XXX FITTING

- 4. PVC LATERAL PIPE FROM DRIP ZONE RCV ASSEMBLY
- SUB-SURFACE DRIPLINE: REFER TO LEGEND FOR SPECIFICATION
- 6. PLANTER EDGE; PERIMETER OF
- 7. MAXIMUM INSTALLED DISTANCE FOR PERIMETER DRIPLINE TUBING SHALL BE 3" IN TURF AND 9" IN SHRUBS, FROM PERIMETER OF AREA
- GLVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. (TYPICAL) REFER TO LEGEND FOR SPACING
- 9. FLUSH VALVE WITHIN A 7" ROUND VALVE BOX, TYPICAL. REFER TO

- LEGEND FOR TYPE. INSTALL VALVE ON EXHAUST HEADER/FOOTER IN PLANTERS AS SHOWN. (TYPICAL)
- 10. BARB X BARB INSERT TEE OR EL: (TYPICAL)

RAIN BIRD MODEL: XFF-TEE, XFF-EL

- 11. PVC RISER PIPE
- 12. PVC LATERAL SUPPLY PIPE
- 13. PVC SLEEVE PIPE. SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
- 14. HARDSCAPE PAVEMENT/CURB, OR SIDEWALK
- 15. 6" OF SOIL COVER OVER DRIPLINE TUBING
- 16. SUB-FINISH GRADE
- 17. PVC LATERAL SUPPLY PIPE SHALL BE INSTALLED WITHIN PLANTERS UNLESS CROSSING PAVEMENT TO ADJACENT PLANTER





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ISSUED FOR REV DATE ENTITLEMENTS 9/26/2022

SEALS AND SIGNATURES



IRRIGATION DETAILS

13931.000 PROJECT NUMBER

L9.2.6 SHEET NUMBER

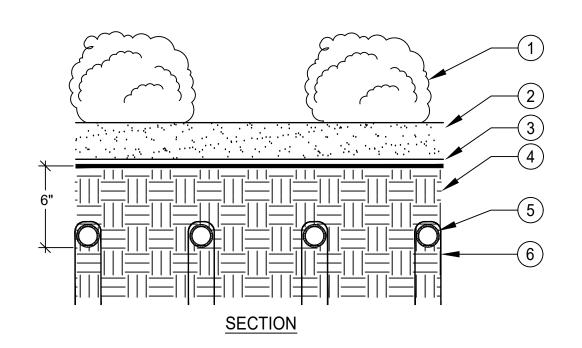


DRIPLINE- CENTER FEED LAYOUT

SCALE: N.T.S.

SCALE: N.T.S.

DRIP ZONE FLUSH VALVE ASSEMBLY



A. TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS IT IS RECOMMENDED BELOW FINISH GRADE, LEVELED, AND PROPERLY COMPACTED AS PER TH LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING

B. INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING GALVANIZED WIRE HOOP STAKES AT 4 O.C. SPACING.

1. SHRUBS/GROUND COVER

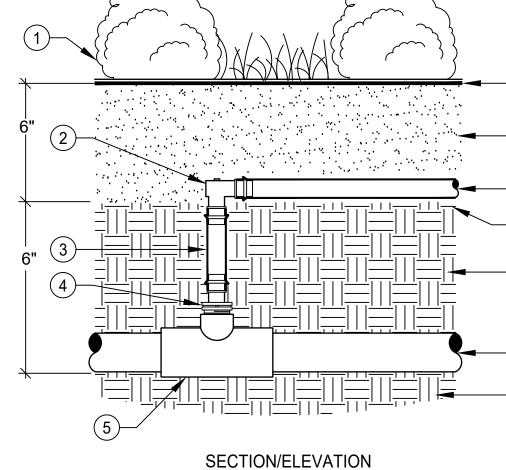
2. MULCH LAYER, REFER TO LANDSCAPE DRAWINGS FOR TYPE AND DEPTH

DRIPLINE INSTALLATION

3. FINISH GRADE

SCALE: N.T.S.

4. AMENDED SOIL, REFER TO LANDSCAPE DRAWINGS FOR SPECIFICATION



A. REFER TO LEGEND FOR MAXIMUM DRIPLINE TUBING SPACING. LAY DEPTH FOR DRIPLINE SHALL BE 6 INCHES BELOW AMENDED SOIL FINISH GRADE.

C. INSTALL FIRST ROW OF DRIPLINE TUBING 6 INCHES FROM ANY HARDSCAPE EDGE.

1. SHRUBS/GROUND COVER

- 2. 17mm BARB 90 ELBOW FITTING, REFER TO LEGEND FOR SPECIFICATION
- 3. 1/2" BLANK POLY TUBING, REFER TO LEGEND FOR SPECIFICATION
- 4. 1/2" MIPT x 17mm BARB ADAPTER, REFER TO LEGEND FOR SPECIFICATION
- 5. PVC SCH 40 SST TEE/EL FITTING, LINE SIZE X 1/2"
- 6. SITE SOIL

SCALE: N.T.S.

- 7. PVC SUPPLY / EXHAUST MANIFOLD HEADER LATERAL LINE
- 8. SCREENED BACKFILL MATERIAL
- 9. SUB-GRADE
- 10. 17mm DRIPLINE TUBING, REFER TO LEGEND FOR **SPECIFICATION**
- 11. AMENDED SOIL. REFER TO PLANTING DRAWINGS
- FOR SPECIFICATION
- 12. FINISH GRADE

DRIPLINE- PVC / DRIPLINE MANIFOLD CONNECTION

SECTION/ELEVATION

SCALE: N.T.S.

MULCH LAYER, REFER TO

2. AMENDED SOIL, REFER TO

LANDSCAPE DRAWINGS FOR

3. SUB-SURFACE DRIPLINE TUBING.

REFER TO LEGEND FOR

4. 17mm BARB TEE x 3/4" THRD.

FITTING. REFER TO LEGEND FOR

AND DEPTH

SPECIFICATION

SPECIFICATION

SPECIFICATION

LANDSCAPE DRAWINGS FOR TYPE

DRIPLINE- CTR FEED PVC / DRIP CONNECT

5. AMENDED SOIL / BACKFILL

6. 3/4" SCH 80 PVC NIPPLE. LENGTH AS

7. SCH 40 PVC TEE SxSxT, LINE SIZE

8. PVC SUPPLY MANIFOLD HEADER

MATERIAL

REQUIRED

LATERAL LINE

BY 3/4"

2 3 2

DRIPLINE TUBING INSTALLATION:

6" BELOW FINISH GRADE

GALVANIZED WIRE STAKE,

ALL TUBING

SPACE AT 4 FEET O.C. ALONG

RECTANGULAR SPECIFICATION GRADE VALVE BOX WITH USE INVERTED VALVE BOX OF SAME SIZE AS REQUIRED FOR EXTENSION. INSTALL SIZE AS REQUIRED TO ALLOW FOR MAINTENANCE OF INJECTOR. HEAT BRAND "FERT" ON LID

2. EZ FLO SHUT OFF VALVES

3. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB

4. FERTIGATION SYSTEM INJECTION TANK, REFER TO LEGEND FOR 12. EZ BALL VALVE INJECTION COUPLING CONNECTOR -MODEL AND GALLON CAPACITY

5. FERTILIZER OUT - CONNECT CLEAR TUBE TO GREEN

6. 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE **COUPLING TUBING CONNECTIONS**

SUPPORT BRICKS, (MIN. 6 REQ.)

8. 3/4" CRUSHED GRAVEL, MIN. 8" IN DEPTH

9. LANDSCAPE FABRIC

10. MAINLINE PIPE, SEE LEGEND FOR SIZE AND TYPE

11. RECTANGULAR VALVE BOX EXTENSION

INSTALL ACCORDING TO WATER FLOW DIRECTION

CONNECTIONS ON PROPORTIONING CAP AND COUPLING 13. WATER IN - CONNECT BLACK TUBE TO BLUE

14. TOP OF MULCH LAYER. REFER TO PLANTING SPECIFICATIONS

CONNECTIONS ON PROPORTIONING CAP AND COUPLING

A. CONTACT EZ-FLO SYSTEMS, ROCKLIN, CA (866) 393-5601, FOR ADDITIONAL INSTALLATION INFORMATION. IF NEEDED.

B. MODEL EZ-017-HC SLIGHTLY DIFFERENT CONFIGURATION. UNIT INCLUDES A FILL VALVE AND DRAIN VALVE. REFER TO EZ-FLO SYSTEMS FOR MORE INFORMATION.

C. INSTALL PVC SCH 80 45 DEGREE ELLS AS REQUIRED TO ACHIEVE PROPER INSTALLATION ABOVE MAINLINE DEPTH ON UPSTREAM AND DOWNSTREAM SIDE.

D. ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM. ITEM 11 IS PURCHASED

SEPARATELY. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS.

F. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1/2" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

8 **PLAN VIEW**

1. PVC SCH 80 TEE FITTING. MAINLINE SIZE.

2. PVC MAINLINE. REFER TO LEGEND FOR

3. PVC SCH 80 TEE SLIP FITTING, TYP.

4. 12" STANDARD RECTANGULAR SPECIFICATION GRADE VALVE BOX. HEAT BRAND "BV" ON LID. TYP.

1/4" "FERTILIZER OUT" TUBE

6. EZ-FLO BALL VALVE COUPLING CONNECTOR, CBV-XXX. MAINLINE SIZE

7. EZ-FLO FERTILIZER INJECTOR UNIT, REFER TO LEGEND FOR MODEL AND SIZE

8. 1/4" "WATER IN" TUBE

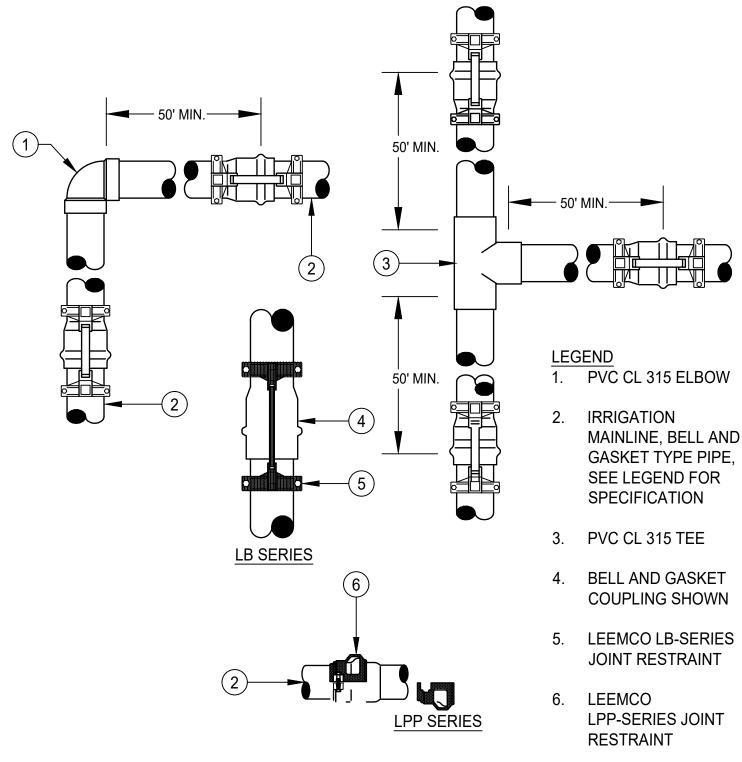
9. RECTANGULAR SPECIFICATION GRADE VALVE BOX. HEAT BRAND "FERT" ON LID. REFER TO LEGEND FOR SPECIFICATION. FIT FERTILIZER UNIT WITHIN FOR EASY REMOVAL. MINIMUM 3" CLEARANCE ON ALL SIDES OF UNIT

10. LASCO FULL BLOCK TRUE UNION PVC BALL VALVE WITH TEFLON SEATS AND EPDM O-RINGS, MODEL VXX101N. MAINLINE SIZE. (3 REQ.)

11. WATER FLOW DIRECTION

12. IRRIGATION MAINLINE FROM P.O.C. / BACKFLOW ASSEMBLY. REFER TO PLAN FOR MAINLINE SIZE. REFER TO LEGEND FOR TYPE

13. PVC SCH 80 EL FITTING, TYP.



A. USE JOINT RESTRAINTS ON ALL BELL AND GASKET MAINLINE PIPE. USE LPP OR LB SERIES RESTRAINTS FOR BELL AND GASKET JOINTS.

C. INSTALL RESTRAINTS FOR TWO PVC BELL ENDS (JOINTS) OR 50 FEET BEFORE ANY CHANGE IN DIRECTION.

D. SIZE OF RESTRAINT TO BE AS PER PIPE AND FITTING USED.

PVC BELL JOINT RESTRAINT INSTALLATION SCALE: N.T.S.



FOLSOM MOB

285 Palladio Pkwy, Folsom, CA 95630

SMITHGROUP

550 SOUTH HOPE STREET SUITE 1950 LOS ANGELES, CA 90071 213.228.6900 smithgroup.com

ISSUED FOR REV DATE ENTITLEMENTS

SEALS AND SIGNATURES



IRRIGATION DETAILS

13931.000

PROJECT NUMBER L9.2.7



FERTIGATION INJECTOR INSTALLATION

SCALE: N.T.S.

FERTIGATION INJECTOR W/ BYPASS SCALE: N.T.S.

IRRIGATION

MAINLINE, BELL AND

GASKET TYPE PIPE,

SEE LEGEND FOR

COUPLING SHOWN

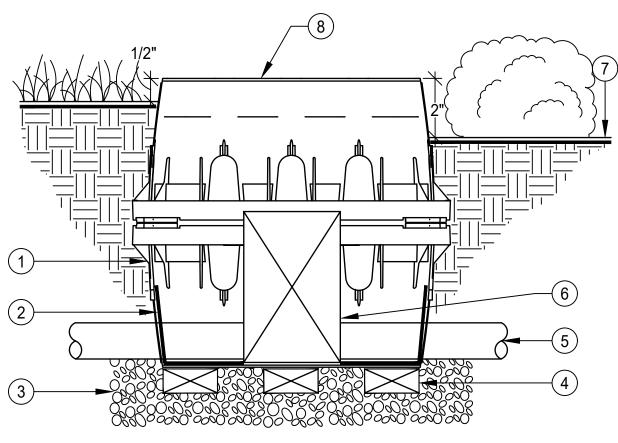
JOINT RESTRAINT

LPP-SERIES JOINT

RESTRAINT

SPECIFICATION

SHEET NUMBER



SECTION/ELEVATION

A. SET TOP OF VALVE BOX 1/2" ABOVE FINISHED GRADE IN TURF AREAS. B. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- 1. INTERLOCKING VALVE BOX **BOTTOM FOR DEEP** INSTALLATION
- 2. LANDSCAPE FABRIC
- 3. 3/4" GRAVEL, MIN. 5" DEPTH
- 4. 4"X8" SUPPORT BRICK, 6 **REQUIRED**

SCALE: N.T.S.

- 5. PVC MAINLINE, REFER TO LEGEND FOR SPECIFICATION
- 6. IRRIGATION EQUIPMENT APPURTENANCE: MAY REQUIRE **CONCRETE SUPPORT PAD** UNDERNEATH
- 7. FINISH GRADE

DRIP ASSEMBLY BOX INSTALLATION

8. RECTANGULAR SPECIFICATION GRADE VALVE BOX W/ BOLT DOWN 'T' COVER, HEAT BRAND RCV # ON TO LID. REFER TO

LEGEND FOR SPECIFICATION

- AND LAYOUT TO DETERMINE EXACT QUANTITY OF ARV'S TO INSTALL. F. IN SHRUB AREAS INSTALL VALVE BOX 2"

LEGEND

<u>INSET B</u>

- PERIMETER DRIPLINE PIPE TO BE INSTALLED
- AIR / VACUUM RELIEF VALVE, REFER TO LEGEND FOR SPECIFICATION. INSTALLED WITHIN 7" ROUND VALVE BOX AT HIGH POINT(S) IN ZONE. LOCATION PLACEMENT AS SHOWN IS DIAGRAMMATIC ONLY. INSTALL AT ALL ZONE HIGH POINTS
- 3. RAIN BIRD INSERT TEE FITTING, MODEL XFF-TEE
- 4. RAIN BIRD INSERT CROSS FITTING, MODEL XFD-CROSS. SEE
- SUB-SURFACE DRIPLINE TUBING: REFER TO LEGEND FOR SPECIFICATION
- 6. 17mm NETAFIM DRIPLINE BLANK TUBING, MODEL TLDL00X, OR **EQUAL**
- 7. GALVANIZED TIE-DOWN STAKE, RAIN BIRD, MODEL TDS-050. (TYPICAL)

AMENDED SOIL. REFER

TO PLANTING PLAN

FOR SPECIFICATION

PVC SUPPLY MANIFOLD

OR EXHAUST HEADER

3/4" CRUSHED GRAVEL,

SCH 40 PVC SST TEE,

LINE SIZE x 1/2" TRD

NIPPLE. LENGTH AS

AIR / VACUUM RELIEF

VALVE, REFER TO

1/2" SCH 80 PVC

REQUIRED

COUPLER

SCH 40 PVC TT

LEGEND FOR

9. FINISH GRADE

SPECIFICATION

+ 1/2 CUBIC FT

PIPE

PLAN VIEW/SECTION

A. CONNECT ONE ARV AT EACH HIGH POINT IN

ZONE, MOUNT ON BLANK TUBING INSTALLED

PERPENDICULAR TO EACH DRIPLINE TUBING

LINE TO CONNECT ALL DRIPLINES TO ARV.

B. INSTALL ONE (1) ARV FOR MAXIMUM OF EVERY

C. INSTALL IN LOCATIONS AS DESCRIBED IN THE

D. DUE TO FIELD CHANGES OR OTHER REASONS

NOT EQUAL TOTAL QUANTITY OF ARV'S

ABOVE SOIL LEVEL OR 1" ABOVE MULCH

LAYER, WHICHEVER IS HIGHER.

550 FEET OF TUBING, OR PART THEREOF, IN

LEGEND AND DRIPLINE INSTALLATION DETAILS

TOTAL ARV SYMBOLS SHOWN ON PLAN MAY

E. CONTRACTOR SHALL REVIEW DRIP ZONE AREA

LOCATION SHOWN IN DRIPLINE LAYOUT

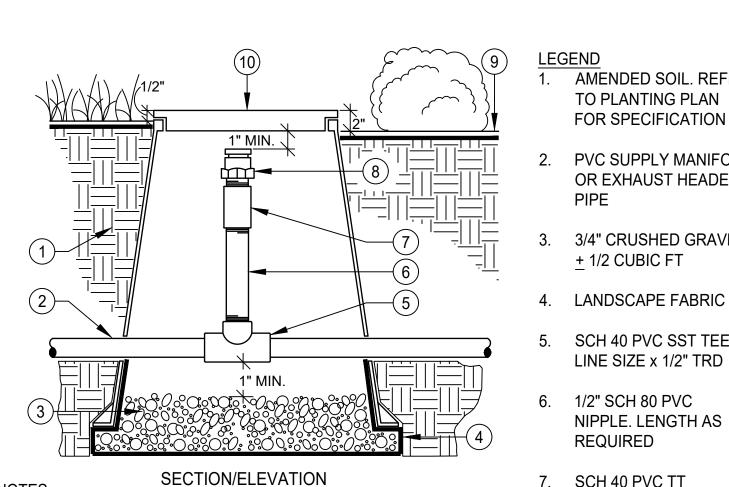
DETAILS IS DIAGRAMMATIC ONLY

ANY ZONE.

REQUIRED.

SCALE: N.T.S.

DRIP RCV ASSEMBLY ALTERNATE INSTALLATION



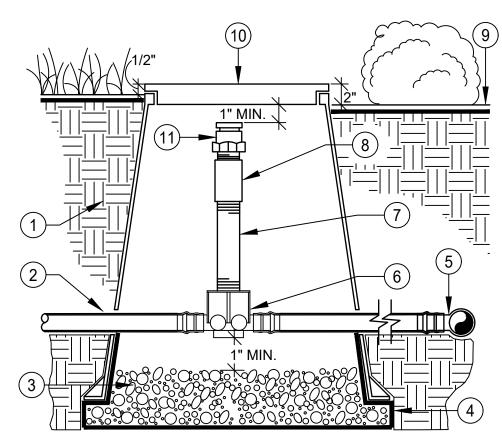
NOTES:

LAYER, WHICHEVER IS HIGHER.

- CONNECT ONE ARV AT EACH HIGH POINT IN ZONE WHEN HIGH POINT IS AJACENT HEADER/FOOTER MANIFOLD. LOCATION
- SHOWN IN DRIPLINE LAYOUT DETAILS IS DIAGRAMMATIC ONLY B. INSTALL ONE (1) ARV ON PVC HEADER OR EXHAUST PIPE FOR MAXIMUM OF EVERY 550 FEET OF DRIPLINE OR ECO-MAT TUBING, OR PART THEREOF, IN ANY ZONE.
- C. INSTALL AT EVERY HIGH POINT LOCATION WITHIN ZONE AS DESCRIBED IN THE LEGEND
- D. DUE TO FIELD CHANGES OR OTHER REASONS TOTAL ARV SYMBOLS SHOWN ON PLAN MAY NOT EQUAL TOTAL QUANTITY OF ARV'S REQUIRED.
- E. CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF ARV'S TO INSTALL IN SHRUB AREAS.

F. INSTALL VALVE BOX 2" ABOVE SOIL LEVEL OR 1" ABOVE MULCH

10. 7" ROUND SPECIFICATION GRADE VALVE BOX, REFER TO LEGEND FOR TYPE. **HEAT BRAND "ARV"** ONTO LID



SECTION/ELEVATION

- A. CONNECT ONE ARV AT EACH HIGH POINT IN ZONE. MOUNT ON BLANK TUBING INSTALLED PERPENDICULAR TO EACH DRIPLINE TUBING LINE TO
- IN DRIPLINE LAYOUT DETAILS IS DIAGRAMMATIC ONLY. INSTALL ONE (1) ARV FOR MAXIMUM OF EVERY 550 FEET OF TUBING, OR PART THEREOF, IN ANY ZONE.

CONNECT ALL DRIPLINES TO ARV. LOCATION SHOWN

- C. INSTALL IN LOCATIONS AS DESCRIBED IN THE LEGEND AND DRIPLINE INSTALLATION DETAILS.
- D. DUE TO FIELD CHANGES OR OTHER REASONS TOTAL ARV SYMBOLS SHOWN ON PLAN MAY NOT EQUAL TOTAL QUANTITY OF ARV'S REQUIRED.
- CONTRACTOR SHALL REVIEW DRIP ZONE AREA AND LAYOUT TO DETERMINE EXACT QUANTITY OF ARV'S TO INSTALL. F. IN SHRUB AREAS INSTALL VALVE BOX 2" ABOVE SOIL
- LEVEL OR 1" ABOVE MULCH LAYER, WHICHEVER IS HIGHER.

- AMENDED SOIL. REFER TO PLANTING PLAN FOR SPECIFICATION
- NETAFIM 17mm BLANK DRIP TUBING, MODEL TLDL00X, OR EQUAL. USE RAIN BIRD INSERT FITTINGS (CROSS AND TEES), MODELS XFD-CROSS AND XFF-TEE FOR CONNECTIONS
- 3. 3/4" CRUSHED GRAVEL, + 1/2 CUBIC FT
- 4. LANDSCAPE FABRIC
- BLANK TUBING CONNECTION TO INLINE DRIP TUBING AT EDGE OF ZONE (PARALLEL TO HARDSCAPE)
- RAIN BIRD 17 mm TEE FITTING, MODEL XFF-TFA-050, BARB x 1/2" THRD.
- 1/2" SCH 80 PVC NIPPLE. LENGTH AS REQUIRED
- 8. SCH 40 PVC 1/2" TT COUPLER
- 9. FINISH GRADE
- 10. 7" ROUND SPECIFICATION GRADE VALVE BOX, REFER TO LEGEND FOR TYPE. HEAT BRAND "ARV" ONTO LID
- 11. AIR / VACUUM RELIEF VALVE, REFER TO LEGEND FOR SPECIFICATION

3. PVC EXHAUST HEADER

4. BARB X MALE FITTING: RAIN BIRD XFF-MA-XXX FITTING (TYPICAL)

1. FLUSH VALVE (TYPICAL) WITHIN 7" ROUND BOX.

2. AIR / VACUUM RELIEF VALVE, REFER TO LEGEND

LOCATION AS SHOWN IS DIAGRAMMATIC ONLY

FOR SPECIFICATION. INSTALLED WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD.

REFER TO LEGEND FOR SPECIFICATION

- 5. RAIN BIRD QF-DRIPLINE HEADER: -USE 3/4" FOR ZONE OR 'ZONE SECTION' FLOWS 9 **GPM OR LESS** -USE 1" FOR ZONE OR 'ZONE SECTION' FLOWS 10 GPM TO 15 GPM
- 6. QF DRIPLINE PRE-NSTALLED BARB FITTING
- 7. PVC SCH 40 THREADED TEE OR ELL (TYPICAL)
- 8. EDGE OF SIDEWALK / HARDSCAPE

9. PVC SCH 40 EL. SIZE PER

10. PVC SCH 40 PIPE. SIZE PER QF DRIPLINE HEADER

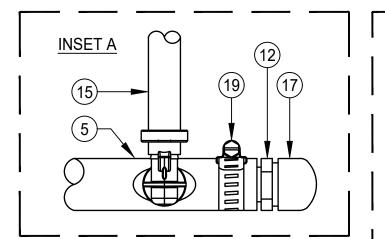
- 11. NON-PLANTED ARE.. 'DG' OR MULCH COVER.
- 12. PVC INSERT ADAPTER (BARB X SOC), SPEARS, MODEL 474-007 OR 474-010. SIZED TO FIT SUPPLY PIPE (3/4" OR 1") (TYP.)
- 13. PVC PIPE FROM RCV OR ADJACENT ZONE SECTION (SIZED TO MEET LATERAL FLOW DEMAND, REFER TO PLAN FOR SIZE). INSTALL PVC PIPE AT DEPTH PER PIPE DETAIL OR SPECIFICATION
- 14. PVC SUPPLY HEADER
- 15. SUB-SURFACE DRIPLINE TUBING: REFER TO LEGEND FOR SPECIFICATION
- 16. AIR RELIEF VALVE: RAIN BIRD, MODEL ARV050, WITHIN 7" ROUND VALVE BOX. CONNECTED TO PVC PIPE MANIFOLD. LOCATION AS SHOWN IS DIAGRAMMATIC ONLY
- 17. PVC CAP. SPEARS, MODEL 447-007 OR 447-010. SIZED TO FIT INSERT ADAPTER (3/4" OR 1"). SEE INSET 'A'
- 18. PCV INSERT MALE ADAPTER, SPEARS, MODEL 4XX-007 OR 4XX-010. SIZED TO FIT EL
- 19. STAINLESS STEEL CLAMP, OETIKER OR MURRAY

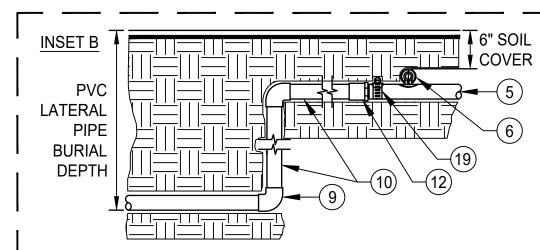
- A. DETAIL DESCRIBES QF MANIFOLD LAYOUT. USE SAME DESIGN INTENT OF ROUTED AROUND TREES FOR ANY PVC
- B. QF-MANIFOLD SHALL ALWAYS BE INSTALLED AT DEPTH TO ACCOMMODATE THE 6" INSTALLATION DEPTH FOR DRIPLINE TUBING
- C. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT
- D. INSTALL SUB-SURFCE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.

QF MANIFOLD SIZE

E. AIR RELEASE / VACUUM VALVE WHERE SHOWN IS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA FOR PROPER VACUUM RELEASE ACTION.

DRIPLINE- HEADER ADJACENT TO TREES

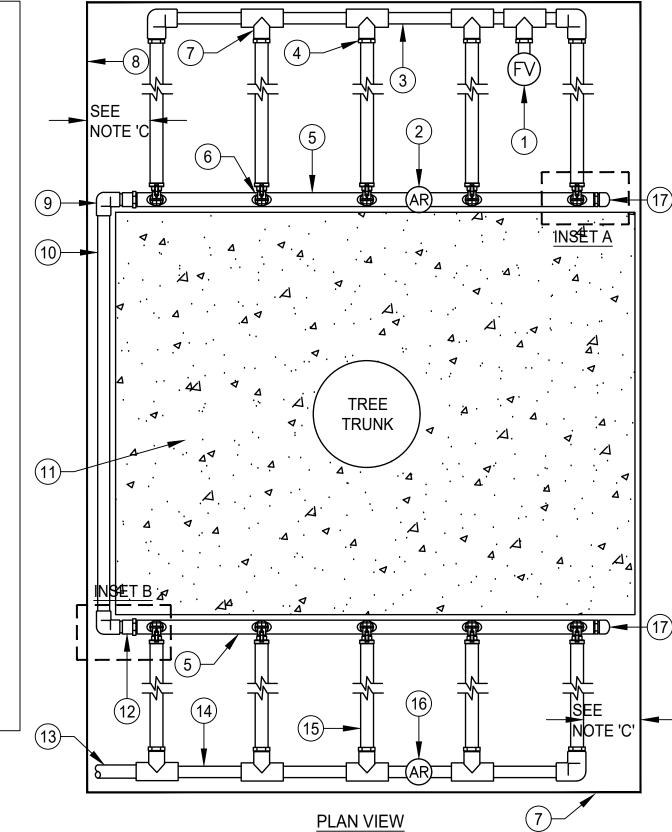


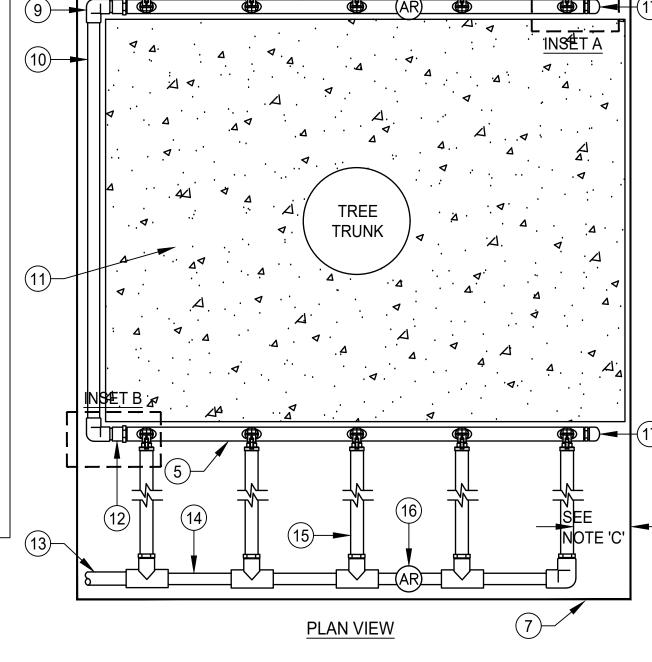


A. DETAIL DESCRIBES QF MANIFOLD LAYOUT. USE SAME DESIGN INTENT OF DRIPLINE **ROUTING AROUND TREES FOR** A PVC HEADER MANIFOLD

- LAYOUT. B. DETAIL IS EXAMPLE OF A 5 **TUBING ROW ZONE. ZONE** MAY CONTAIN MORE OR LESS DRIPLINE TUBING ROWS.
- C. QF-MANIFOLD SHALL ALWAYS BE INSTALLED AT DEPTH TO ACCOMMODATE THE 6" INSTALLATION DEPTH FOR DRIPLINE TUBING.
- D. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. MAXIMUM SPACING SHALL BE 12" APART FOR TURF AREAS. MAXIMUM SPACING SHALL BE 18" APART FOR FLAT SHRUB AREAS.
- E. INSTALL SUB-SURFCE TUBING MAXIMUM 3" FROM ANY HARDSCAPE EDGE IN TURF AND 9" IN SHRUBS.
- F. AIR RELEASE / VACUUM VALVE WHERE SHOWN IS DIAGRAMMATIC ONLY. PLACE AT HIGHEST POINT IN AREA FOR PROPER VACUUM RELEASE ACTION.

SCALE: N.T.S.





IRRIGATION DETAILS

KAISER PERMANENTE®

FOLSOM MOB

SMITHGROUP

550 SOUTH HOPE STREET

LOS ANGELES, CA 90071

REV DATE

9/26/2022

285 Palladio Pkwy,

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ENTITLEMENTS

SEALS AND SIGNATURES

smithgroup.com

PROJECT NUMBER

SHEET NUMBER

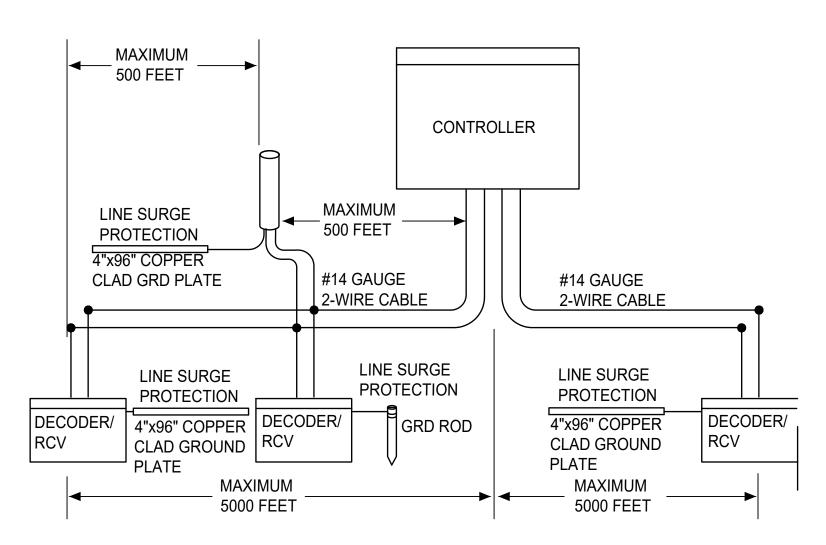
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DRIPLINE-1/2" ARV ON POLY TUBING

DRIPLINE-ARV PVC SUPPLY/EXHAUST MANIFOLD SCALE: N.T.S.

SCALE: N.T.S.

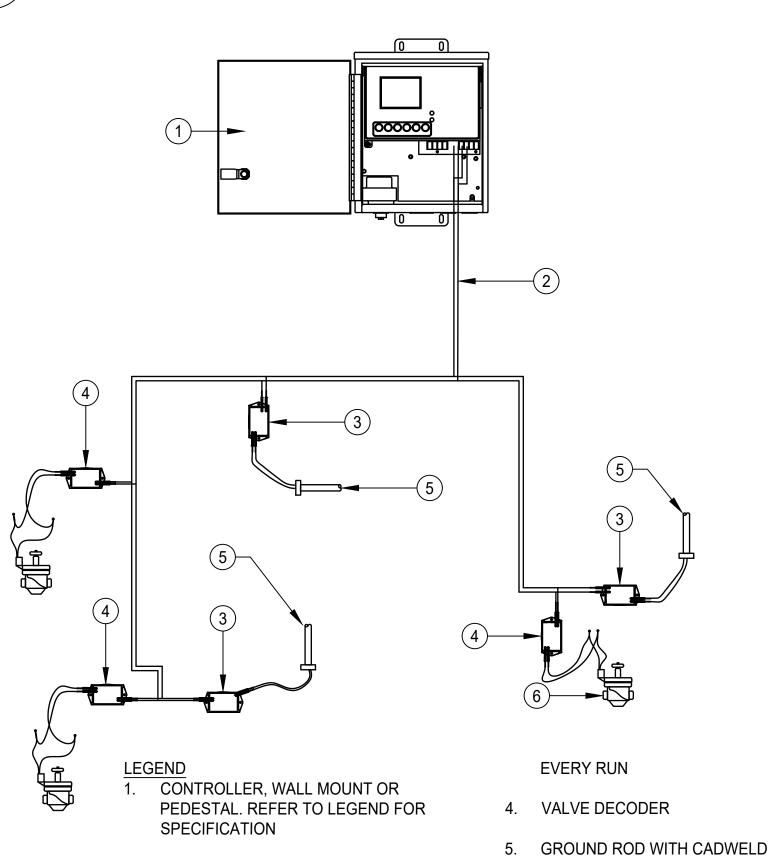


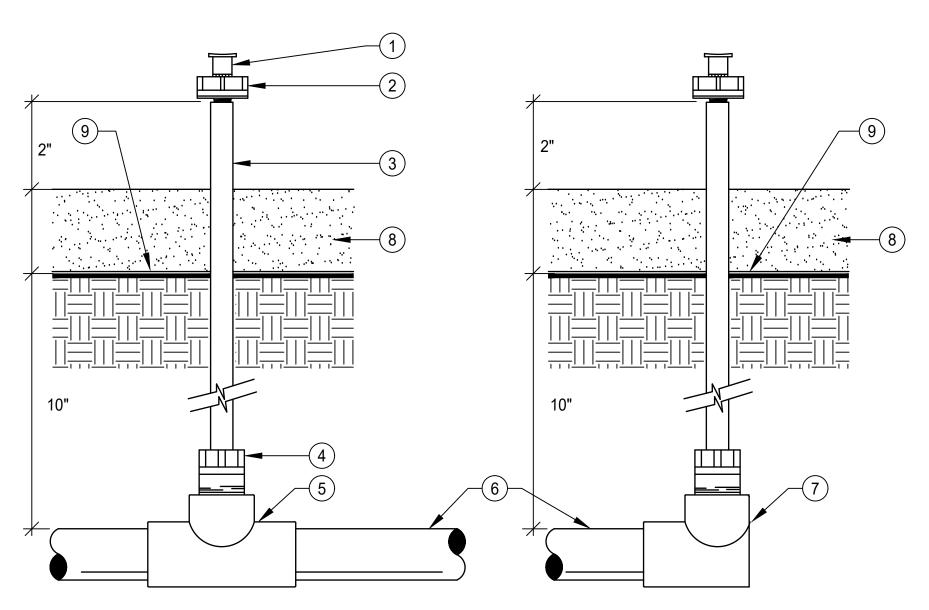
- A. LINE SURGE PROTECTOR SHALL BE INSTALLED EVERY 450-500 FEET OR FOR EVERY EIGHT DECODERS ON TWO-WIRE PATH.
- B. LINE SURGE PROTECTOR SHALL BE INSTALLED AT END OF CABLE RUN THAT TERMINATES IN THE FIELD.
- C. FOR END CABLE RUN CONTRACTOR SHALL USE GROUND PLATE WITH 25' #6 GROUND WIRE ATTACHED TO GROUND PLATE FROM FACTORY.



DECODER 2-WIRE CABLE LAYOUT

SCALE: N.T.S.



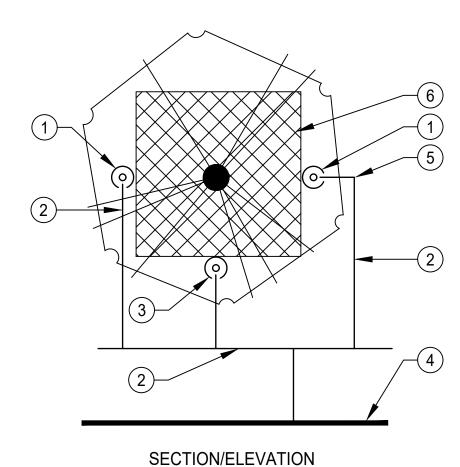


SCALE: N.T.S.

В

- 1. PC DIFFUSER CAP FOR 5 GPH AND LARGER EMITTERS, RAIN BIRD, MODEL PC-DIFF
- 2. EMITTER, RAIN BIRD, MODEL XB-XX-1032 PC-XX-1032 PC
- 3. PRE- ASSEMBLED POLYFLEX RISER / ADAPTER, RAIN BIRD, MODEL PFR/FRA24. TRIM 2" ABOVE MULCH LAYER
- 4. ADAPTER, PART OF PFR/FRA ASSEMBLY
- 5. 1/2" PVC SCH 40 SXSXT TEE
- 6. 1/2" SCH 40 PVC SUB-LATERAL LINE, TYPICAL. FOR DESIGN CLARITY SUB-LATERAL PIPE IS NOT SHOWN ON IRRIGATION PLAN
- 1/2" PVC SCH 40 SXF ELL
- 8. MULCH LAYER. REFER TO LANDSCAPE SPECIFICATIONS FOR DEPTH
- 9. SOIL FINISH GRADE

POINT SOURCE DRIP EMITTER ASSEMBLY

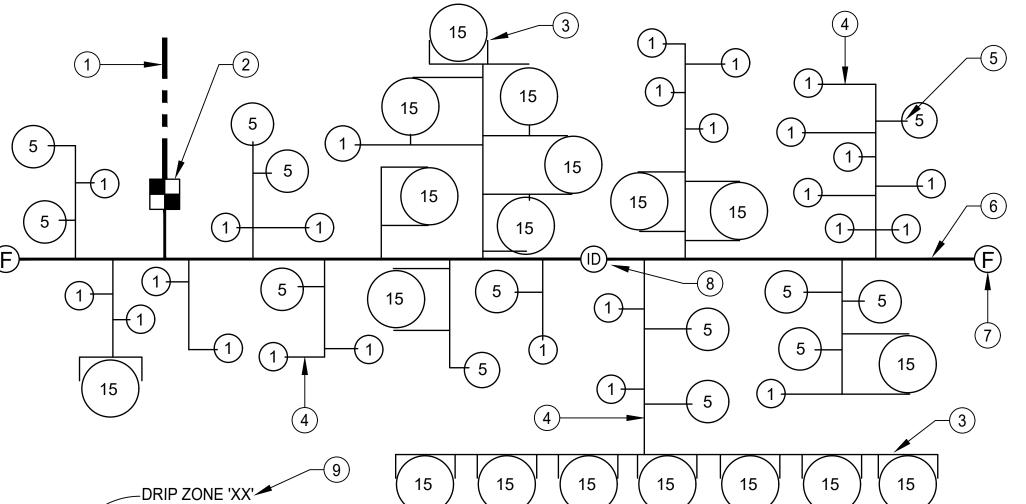


- DRIP EMITTER (BUBBLER) PLACEMENT FOR 15 GALLON SHRUB, TYP. REFER TO #3 FOR SAME TYPE
- 2. 1/2" SCH 40 PVC 'SUB-LATERAL' PIPE, TYP. NOT SHOWN ON PLAN FOR **DESIGN CLARITY**
- 3. DRIP EMITTER (BUBBLER) PLACEMENT FOR 1 OR 5 GALLON SHRUB, TYP. RAIN BIRD MODEL XB-XX-1032, XERI-BUG SERIES OR PC-XX-1032 PC MODULES SERIES WITH PC DIFFUSER CAP. INSTALL WITH RAIN BIRD PRE-ASSEMBLED POLYFLEX RISER / ADAPTER, MODEL PFR12/24/FRA. PLACE EMITTERS (BUBBLERS) AT EDGE OF ROOTBALL. ADJUST PER ROOTBALL SIZE, TYPICAL
- 4. SCH 40 PVC 'BACKBONE' LATERAL PIPE, AS SHOWN ON PLAN. SEE PLAN FOR SIZE WITHIN ZONE
- 5. 1/2" PVC ELBOW AS REQUIRED
- 6. ROOT BALL OF SHRUB





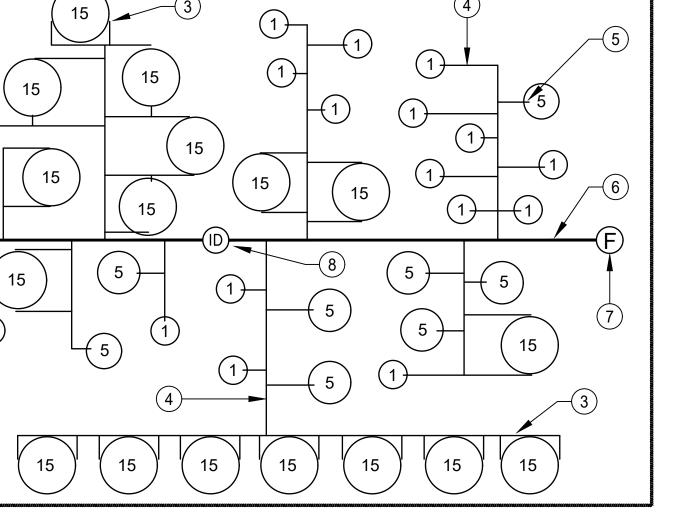
POINT SOURCE DRIP EMITTER LAYOUT SCALE: N.T.S.



- MAINLINE, REFER TO LEGEND FOR TYPE.
- 2. DRIP CONTROL VALVE ASSEMBLY, REFER TO LEGEND
- 15 GALLON SHRUB 'DOUBLE EMITTER' LAYOUT EXAMPLE
- 1/2" SCH 40 PVC DRIP SUB-LATERAL PIPE, TYPICAL. FOR DESIGN CLARITY, SUB-LATERAL PIPE IS NOT SHOWN ON IRRIGATION PLAN
- 5. EMITTER PLACEMENT (TYPICAL), SEE DETAIL ON THIS SHEET
- DRIP 'BACKBONE' SCH 40 PVC LATERAL PIPE, SEE PLAN FOR SIZE WITHIN ZONE. 'BACKBONE' PIPE IS SHOWN WITHIN DRIP ZONE ON IRRIGATION PLAN
- 7. FLUSH VALVE WITHIN 7" ROUND VALVE BOX, TYPICAL.
- 8. ECO-ID ZONE OPERATION INDICATOR
- 9. OUTLINED ZONE DESIGNATION, SEE PLAN

CONTRACTOR SHALL ROUTE SUB-LATERAL PIPE THROUGHOUT ZONE USING BEST INSTALLATION PRACTICES.

- FOR SLOPED PLANTERS ALL EMITTERS ARE REQUIRED TO BE PLACED 6"-12" ABOVE PLANT ROOT BALL ON THE UPHILL SIDE OF PLANT DEPENDING ON SLOPE ANGLE.
- FINAL HEIGHT ABOVE PLANT SHALL BE DETERMINED IN THE FIELD BASED ON SLOPE ANGLE. AFTER SUFFICIENT RUN TIME, WETTING PATTERN SHALL APPROXIMATELY REPRESENT NO MORE THAN 2/3 WET PATTERN BELOW PLANT STEM WITH 1/3 WET PATTERN ABOVE PLANT STEM.
- D. FOR SINGLE EMITTER INSTALLATION: PLACE EMITTER ABOVE PLANT IN LOCATION TO ALLOW WATER TO FLOW ACROSS CENTER OF ROOTBALL.
- E. FOR MULTIPLE EMITTERS INSTALLATION: PLACE EMITTERS ABOVE PLANT IN LOCATIONS TO ALLOW WATER TO FLOW ON EITHER SIDE OF ROOTBALL.



IRRIGATION DETAILS

KAISER PERMANENTE®

FOLSOM MOB

SMITHGROUP

550 SOUTH HOPE STREET

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L9.2.9

13931.000

SCALE: N.T.S.

CONNECTION. MIN. 10 OHMS RESISTANCE

REQUIRED

6. ZONE VALVE (TYP.)

POINT SOURCE DRIP PVC LATERAL LAYOUT

GENERIC TWO-WIRE PATH LAYOUT

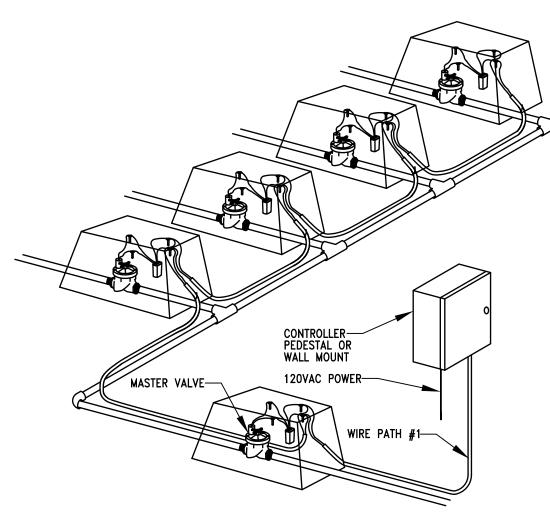
2. 2-WIRE CABLE (PATH) WITHIN 1-1/4"

3. LINE SURGE PROTECTOR. INSTALL @

MAX. 450 - 500 FOOT INTERVALS ALONG 2-WIRE PATH AND AT TERMINUS OF

CONDUIT

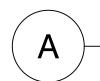
SCALE: N.T.S.



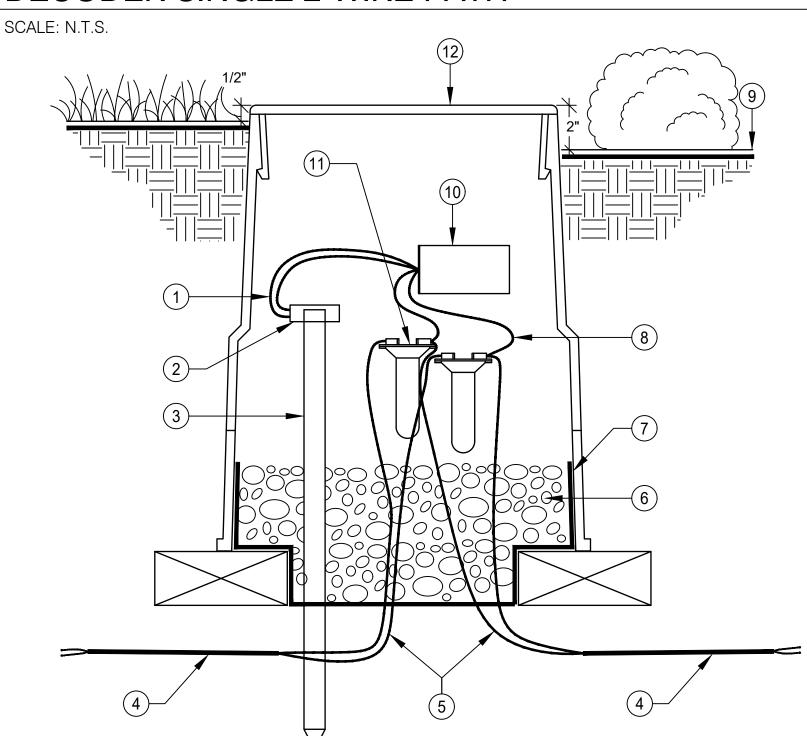
- A. SINGLE TWO-WIRE PATH LINE SURGE PROTECTOR TO BE INSTALLED AT END OF WIRE RUN THAT TERMINATES IN THE FIELD.
- B. MAKE ALL WIRE SPLICES IN VALVE BOXES.

CABLE LOOP ACCORDINGLY.

C. LEAVE A MINIMUM OF 18" EXTRA WIRE AT ALL SPLICE POINTS ABOVE VALVE BOX. SIZE



DECODER SINGLE 2-WIRE PATH



- A. CONTRACTOR SHALL CONTACT SITEONE REPRESENTATIVE, ERIK ANDERSON, (949) 285-4048, FOR WIRING PROCEDURE AND ANY REQUIRED INSTALLATION INFORMATION.
- B. LINE SURGE PROTECTOR SHALL BE INSTALLED EVERY 450-500 FEET OR FOR EVERY EIGHT DECODERS ON TWO-WIRE PATH

SECTION/ELEVATION

C. LINE SURGE PROTECTOR TO BE INSTALLED AT END OF WIRE RUN THAT TERMINATES IN THE FIELD.

- 1. GREEN/YELLOW WIRE FROM LINE SURGE PROTECTION TO CADWELD' ONE-SHOT' CONNECTOR ON GROUNDING ROD (1 OF 2)
- 2. CADWELD 'ONE-SHOT' **GROUNDING CONNECTOR**
- 3. GROUNDING ROD OR PLATE: 6. 3/4" CRUSHED GRAVEL GROUNDED TO 10 OHMS OR
- 4. 2-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR CONTROLLER) WITHIN 1-1/4"
- **ELECTRICAL CONDUIT** 5. 2-WIRE CABLE TO SENSOR
- DECODER
 - 7. LANDSCAPE FABRIC
- 8. BLUE WIRE FROM DECODER (1 OF 2)
- 9. FINISH GRADE OR TOP OF MULCH
- 10. LINE SURGE PROTECTOR. REFER TO LEGEND FOR TYPE
- 11. WIRE CONNECTOR
- 12. 10" ROUND SPECIFICATION GRADE VALVE BOX WITH

GREEN/YELLOW GROUND -WIRES TO GROUND ROD CADWELD BLUE WIRES 'ONE-SHOT' TO 2-WIRE CONNECTION 2-WIRE PATH 5/8" X 8' GROUND-ROD LINE SURGE **PROTECTOR** SYSTEM GROUNDING DETAIL MAKE ALL WIRE SPLICES IN VALVE BOXES WITH DBY/Y-6 WIRE CONNECTOR. LEAVE A MINIMUM OF 18" EXTRA WIRE AT ALL SPLICE POINTS ABOVE VALVE BOX. INSTALL GROUND POINTS AT ALL "DEAD END" WIRE RUNS OVER 25 FT. LONG.

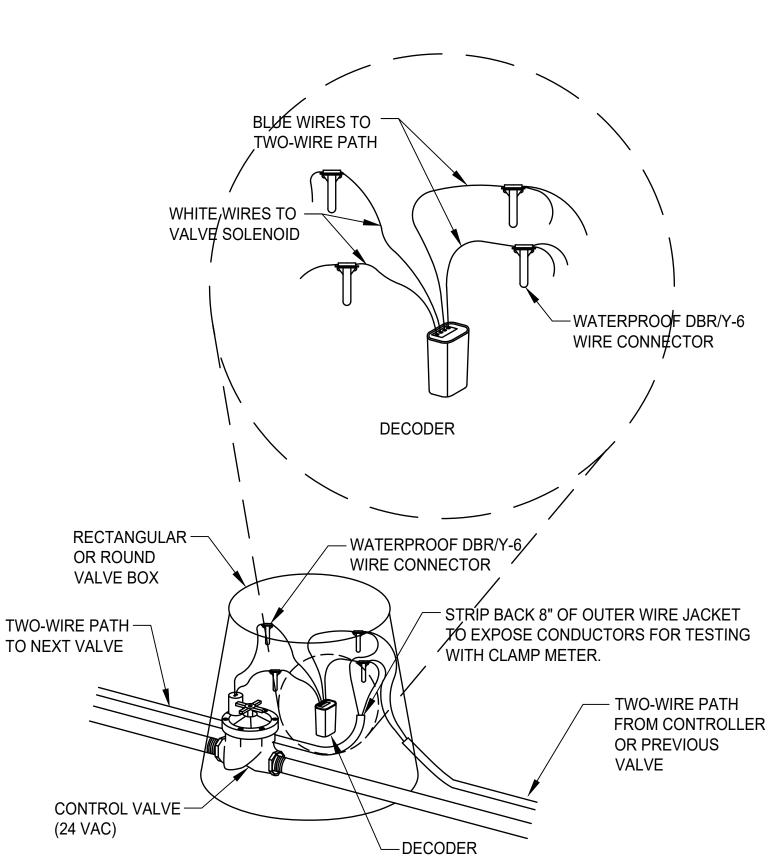
TEST EARTH TO GROUND RESISTANCE AT ALL GROUND POINTS.

EARTH TO GROUND RESISTANCE MUST BE LESS THAN 10 OHMS.

ALL GROUND ASSEMBLIES INSTALLED IN VALVE BOXES

DECODER SYSTEM GROUNDING (TYP.)

SCALE: N.T.S.



A. CONTRACTOR SHALL CONTACT SITEONE REPRESENTATIVE, ERIK ANDERSON, (949) 285-4048, FOR WIRING PROCEDURE AND ANY REQUIRED INSTALLATION INFORMATION.

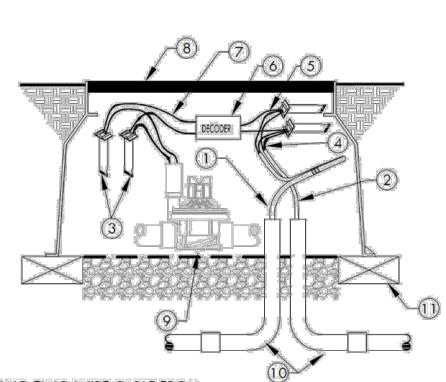
DECODER WIRING SCALE: N.T.S.

24" SLACK PER DECODER. USE ELECTRICAL TAPE TO HOLD SLACK CABLES TOGETHER. (2) TWO WIRE CABLE TO NEXT DECODER

- A MAXIMUM OF 4" OF WIRE SHALL BE STRIPPED FROM TWO WIRE CABLE WHEN SPLICING AT DECODERS.
- 5) CONNECT CORRECT DECODER WIRES TO TWO WIRE CABLES. (6) DECODER

1. ALL DECODERS SHALL HAVE A VALVE NUMBER ADDRESSED AT CONTROLLER PRIOR TO INSTALLATION.

2. USE U.F. SAFETY CABLE STRIPPER BY KING INNOVATION (MODEL NUMBER 46200) FOR ALL TWO-WIRE SPLICE CONNECTIONS.



(1) #14AWG TWO WIRE CABLE FROM. CONTROLLER. REFER TO IRRIGATION NOTES (7) CONNECT CORRECT DECODER WIRES FOR MODEL NUMBER OF WIRE, ALLOW A

- (3) 3M DBR/Y-6 OR APPROVED EQUAL WATERPROOF SPLICE KIT (4 TOTAL)
- - (1) BRICK-ONE ON EACH CORNER

TO VALVE SOLENOID WIRES

CONTROL VALVE DETAIL FOR

INSTALLATION INSTRUCTIONS.

INSTALLATION INSTRUCTIONS.

1.25" CONDUIT FOR 2 WIRE CABLE

OPENINGS WITH WATERPROFF

REMOTE CONTROL VALVE, REFER TO

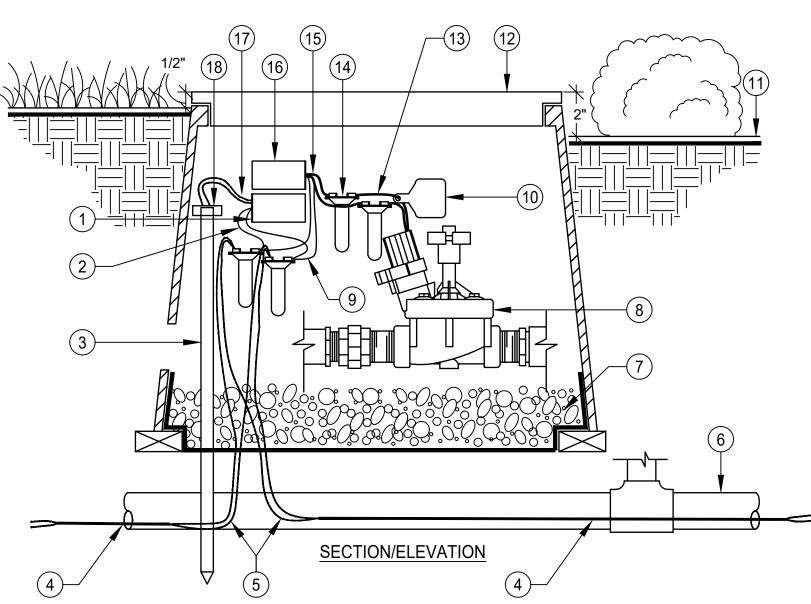
REMOTE CONTROL VALVE DETAIL FOR

WITH LONG SWEEPS IN AND OUT OF

EACH VALVE BOX, SEAL ALL CONDUIT

(8) VALVE BOX, REFER TO REMOTE

DECODER INSTALLATION



PROCEDURE AND ANY REQUIRED INSTALLATION INFORMATION.

SURGE PROTECTION SHOULD BE INSTALLED EVERY 450-500 FEET OR FOR EVERY EIGHT DECODERS ON 2-WIRE PATH.

MAXIMUM LENGTH OF SECONDARY WIRE PATH FROM DECODER TO SOLENOID IS 6 FEET. D. PLACE 3 FEET OF EXTRA WIRE IN EVERY VALVE BOX FOR EASIER SERVICING.

1. LINE SURGE PROTECTOR. IRRIGATION MAINLINE REFER TO LEGEND FOR TYPE

- 3/4" CRUSHED GRAVEL 2. BLUE WIRE FROM LINE
- SURGE PROTECTOR 8. REMOTE CONTROL VALVE GROUNDING ROD OR PLATE: 9. BLUE WIRE FROM FIELD
- **LESS** 4. 2-WIRE CABLE TO NEXT DEVICE (FIELD DECODER,

GROUNDED TO 10 OHMS OR

- 11. FINISH GRADE OR TOP OF SENSOR DECODER, LINE SURGE PROTECTOR OR CONTROLLER) WITHIN 1-1/4" 12. RECTANGULAR ELECTRICAL CONDUIT. REFER TO LEGEND FOR TYPE
 - SPECIFICATION GRADE VALVE BOX WITH COVER

DECODER

10. ID TAG

5. 2-WIRE CABLE TO DECODER 13. SOLENOID WIRE (1 OF 2)

- 14. WIRE CONNECTOR, (1 OF 4)
- 15. WHITE WIRE FROM FIELD DECODER (1 OF 2)
- 16. FIELD DECODER (WITHOUT LINE SURGE PROTECTION). REFER TO LEGEND FOR TYPE
- 17. GREEN/YELLOW WIRE TO CADWELD' ONE-SHOT' CONNECTOR ON GROUNDING ROD (1 OF 2)
- 18. CADWELD 'ONE-SHOT' **GROUNDING CONNECTOR**



LINE SURGE DECODER CONNECTION

PROJECT NUMBER

SHEET NUMBER

IRRIGATION DETAILS

13931.000

L9.2.10

KAISER PERMANENTE®

FOLSOM MOB

SMITHGROUP

550 SOUTH HOPE STREET

REV DATE

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285 Palladio Pkwy,

Folsom, CA 95630

SUITE 1950

213.228.6900

ISSUED FOR

ENTITLEMENTS

SEALS AND SIGNATURES

smithgroup.com

CONNECTING LINE SURGE DECODER TO 2-WIRE PATH

SCALE: N.T.S.

LESS