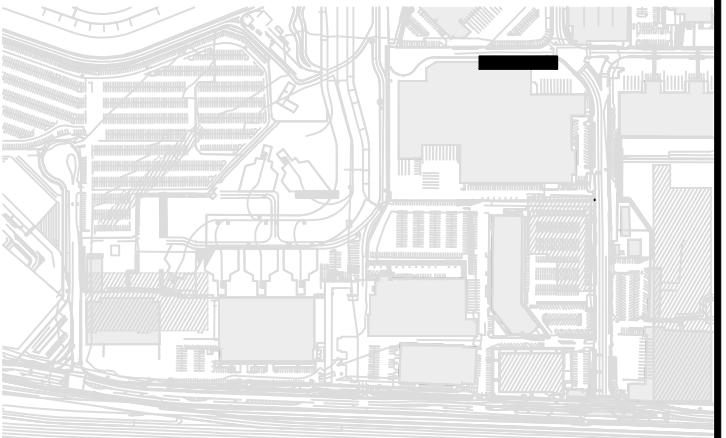


**SFO****SAN FRANCISCO  
INTERNATIONAL AIRPORT**

Key Map

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT TITLE

WEST FIELD UTILITIES AND  
PAVING - STATION BP

SHEET TITLE

LANDSCAPE KEY PLAN  
OVERALL SITE PLAN

SHEET NUMBER

11921.66

CONTRACT NO.

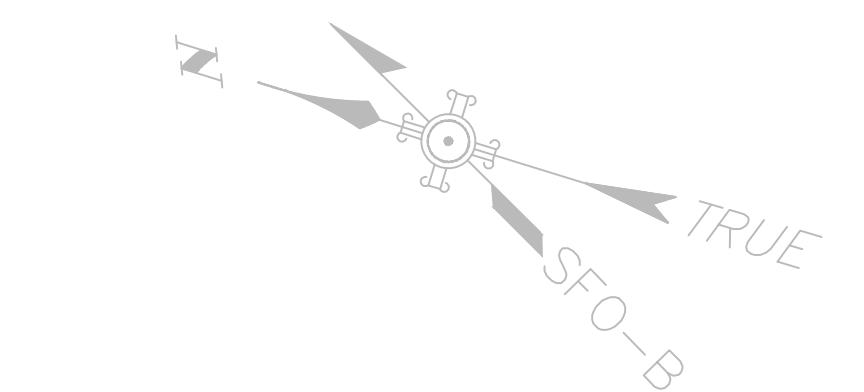
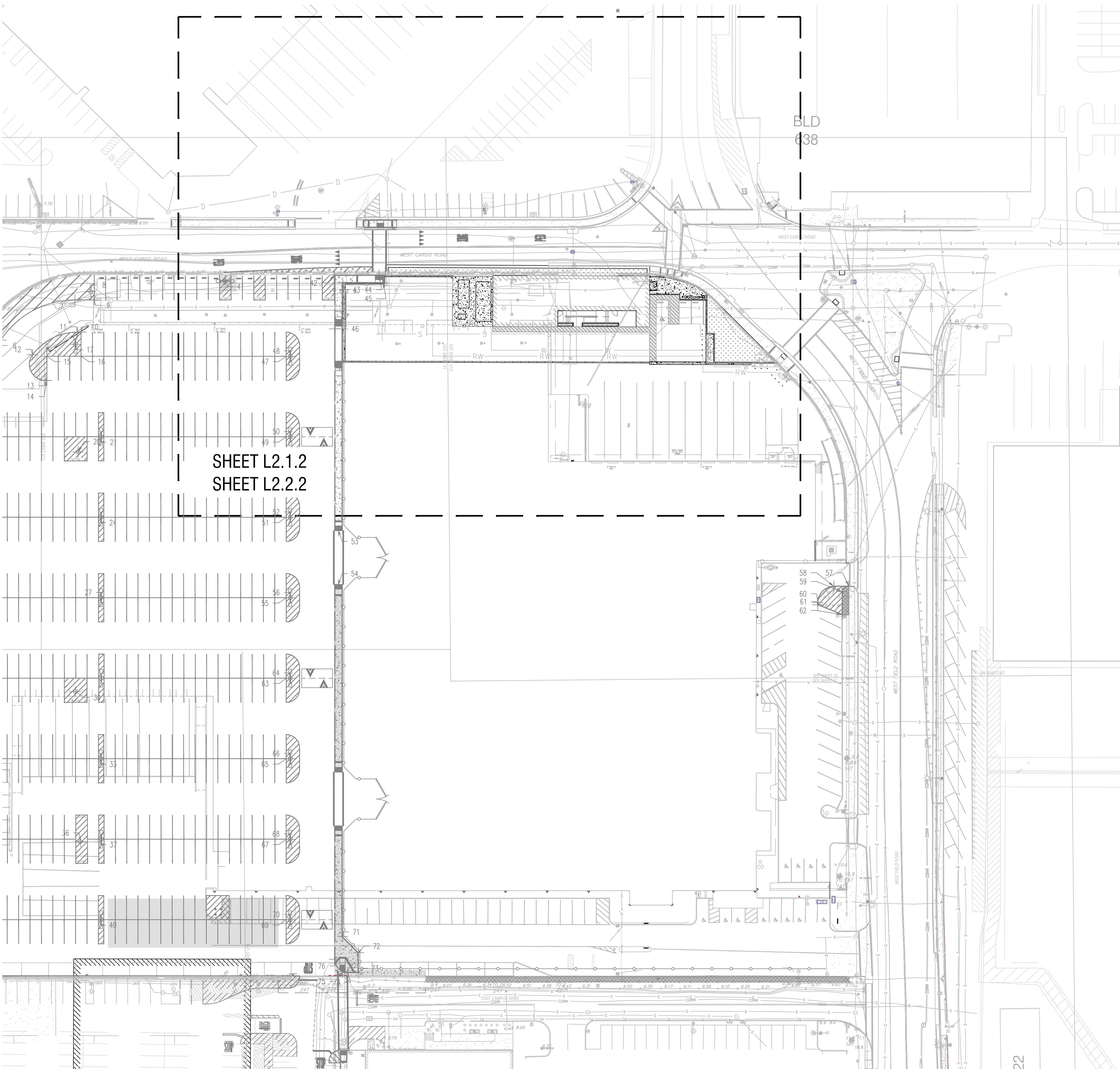
SEAL

CONSULTANT'S LOGO

**Merrill  
Morris**

Landscape Architects &amp; Planners

C:\Users\jpm\Documents\ACAD\00-CAD\00-1-SHTL\LAND\12-X-IRRIGATION.dwg

TRUE  
SFO-B

DESIGNED BY:  
JP  
DRAWN BY:  
LG  
SCALE:  
1" = 40'-0"  
SIZE  
ARCH-D

CHECKED BY:  
CM  
DATE:  
JANUARY 26, 2026

SHEET NUMBER

L1.0.0

REVISION

0

SEQUENCE NUMBER

# OF 148

## **WATER USE CALCULATIONS - SFPUC TIER 2 FORM USED**

Project Summary	
Landscape Project Type <sup>1</sup> : <b>Non-residential Landscape Project</b>	
Total Landscape Area (square feet): <b>2,740</b>	Turf Area (square feet): <b>0</b>
Special Landscape Area (square feet) <sup>2</sup> : <b>0</b>	Water Feature Surface Area (square feet): <b>0</b>
Will this project be irrigated with non-potable water (e.g., recycled water, rainwater, graywater)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

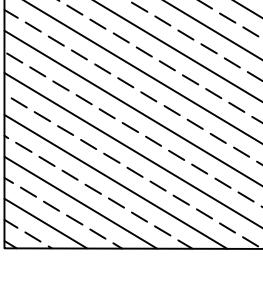
## Regular Landscape Areas

Hydrozone No. and Planting Description	Irrigation Method	Plant Factor (PF) <sup>3</sup>	Hydrozone Area (HA) in ft <sup>2</sup> without SLA	Irrigation Efficiency (IE) <sup>4</sup>	(PF x HA) / IE
<i>Ex. 1. Front lawn of residential home</i>	<i>Spray</i>	<i>0.8</i>	<i>200</i>	<i>0.75</i>	<i>213</i>
C-1	Drip	.2	1,100	0.81	272
C-2	Drip	.4	390	0.81	193
C-3	Drip	.2	1,250	0.81	309
			<b>Total</b>		<b>0</b>

## COMPARISON OF ETWU AND MAWA

<b>Estimated Total Water Use (ETWU)<sup>5</sup></b>	<b>Maximum Applied Water Allowance (MAWA)<sup>6</sup></b>
16,819 gallons per year	26,833 gallons per year

# IRRIGATION SCHEDULE

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>
■	HUNTER ICZ-101-40-LF-R 1" DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: .5 GPM - 15 GPM. 150 MESH STAINLESS STEEL SCREEN. RECLAIMED PURPLE FILTER COVER.
	AREA TO RECEIVE DRILINE NETAFIM 08WRAM-06-18 BIOLINE PRESSURE COMPENSATING LANDSCAPE DRILINE W/PURPLE COLOR TUBING FOR NON-POTABLE WATER APPLICATIONS. 0.6 GPH EMITTERS AT 18" O.C. DRILINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. RECLAIMED WATER USE ONLY.
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>
■	RAIN BIRD 33-DNP 3/4" 3/4IN. BRASS QUICK-CO尤PLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY.
▶	NIBCO S-FP600A-LF LEAD-FREE BRASS, TWO-PIECE, FULL PORT BALL VALVE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION.
Ⓜ	GRISWOLD 2030 2" 1-1/4IN.-8IN. LOW POWER SOLENOID, NORMALLY CLOSED MASTER VALVE. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION.
□	RAIN BIRD TM2-8-120V ESP-2WIRE (120VAC) 8 STATION 2-WIRE CONTROLLER W/ DECODER AUTO-ADDRESS, AND LNK WIFI MODULE IN STRONGBOX SB-16SS PEDESTAL ENCLOSURE. USE WITH 2W-1 SINGLE STATION DECODERS AND STANDARD DIRECT BURIAL WIRE.
Ⓐ	CREATIVE SENSOR TECHNOLOGY ELF-T10-N01 ENHANCED LOW FLOW SENSOR WITH 2-WIRE FREQUENCY, 1IN. MALE NPT THREADED CONNECTION, FLOW RANGE BETWEEN .20 GPM-20 GPM IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"
━	IRRIGATION MAIN LINE: PVC SCHEDULE 40



## IRRIGATION NOTES

1. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICT BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL OR ENGINEERING FEATURES.
2. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE WORK AND PLAN ACCORDINGLY, AND SHALL FURNISH MATERIALS AS REQUIRED TO MEET SUCH CONDITIONS.
3. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, RETAINING WALLS, ETC. CONTRACTOR SHALL COORDINATE WORK TO BE DONE WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF SLEEVES THROUGH WALLS, UNDER PAVING, STRUCTURES, ETC.
4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEMS AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST. SUCH OBSTRUCTIONS, OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
5. THE IRRIGATION SYSTEM DESIGN IS BASED ON A STATIC WATER PRESSURE OF 70 PSI AT THE POINT OF CONNECTION. IRRIGATION DEMAND IS 12 GPM. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. ANY DIFFERENCES BETWEEN THE WATER PRESSURE INDICATED ABOVE AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION SHALL BE REPORTED TO THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL AWAIT RECEIPT OF WRITTEN INSTRUCTIONS FROM THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION OF IRRIGATION SYSTEMS.
6. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL IRRIGATION FOR OPTIMUM PERFORMANCE.
7. ELECTRICAL CONTRACTOR SHALL SUPPLY 120 VOLT A.C. SERVICE TO THE CONTROLLER LOCATION. IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM ELECTRICAL STUBOUT TO CONTROLLER.
8. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH GOVERNING AGENCY STANDARDS AND ALL LOCAL CODES.
9. TWO SLEEVES SHALL BE PROVIDED FOR EACH SLEEVE LOCATION INDICATED ON THE DRAWINGS. ONE FOR IRRIGATION WATER AND ONE FOR CONTROL CONDUCTORS.
10. CALL UNDERGROUND SERVICE ALERT (800) 642-2444 AND AFFECTED UTILITY COMPANIES 48 HOURS BEFORE DIGGING.
11. PROVIDE MANUAL END FLUSH VALVES AT DRIPZONE LOW POINT AND AIR RELIEF VALVE AT DRIPZONE HIGH POINT

## WATER EFFICIENCY:

THE LANDSCAPE WILL COMPLY WITH SAN FRANCISCO WATER'S LANDSCAPE CHECKLIST. A WATER BUDGET CALCULATION WILL BE COMPLETED, AND THE RESULTS WILL DEMONSTRATE THAT THE PROPOSED LANDSCAPE WILL NOT USE MORE WATER THAN THE MAXIMUM WATER ALLOWANCE.

## WATER CONSERVATION STATEMENT:

AGREE TO COMPLY WITH THE REQUIREMENTS OF SAN FRANCISCO WATER AND SUBMIT  
A COMPLETE LANDSCAPE DOCUMENT PACKAGE DURING THE CONSTRUCTION  
DOCUMENT PHASE OF THIS PROJECT

INTRODUCING THE PROJECT  
*Cathy Merrill*

NAME: Cathy Merrill Merrill Morris Partners

DATE: 01/05/2026

## 1 IRRIGATION LEGEND AND NOTES



## PLANT SCHEDULE

GRAPHIC SYMBOL	SPECIES	COMMON NAME	CALL OUT SYMBOL	QUANTITY	CONTAINER SIZE	SPACING (FEET)	MATURE SIZE PER SUNSET	TYPE	WUCOLS
BIORETENTION PLANTS									
✿	ACHILLEA MILLEFOLIUM	YARROW	ACH MIL	29	5 GAL.	SEE PLANS	1-3 H X 1-3 W FT	PER	L
⊕	ASCLEPIAS FASCICULARIS	NARROWLEAF MILKWEED	ASC FAS	18	5 GAL.	SEE PLANS	1-3 H X 1-2 W FT	PER	VL
✿	CAREX TUMULICOLA	FOOTHILL SEDGE	CAR TUM	18	5 GAL.	SEE PLANS	1-3 H X 1-3 W FT	PER	L
✿	FRANGULA CALIFORNICA	COFFEE BERRY	FRA CAL	36	5 GAL.	SEE PLANS	5 H X 5 W FT	SHRUB	L
✿	JUNCUS PATENS	SPREADING RUSH	JUN PAT	25	5 GAL.	SEE PLANS	1-3 H X 1-3 W FT	PER	L
✿	MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	MIM AUR	29	5 GAL.	SEE PLANS	2-3 H X 2-3 W FT	PER	L
✿	SALVIA CLEVELANDII X SONOMENSIS	CLEVELAND SAGE	SAL CLE	9	5 GAL.	SEE PLANS	2-3 H X 4-5 W FT	SHRUB	L
✿	SALVIA SPATHACEA	HUMMINGBIRD SAGE	SAL SPA	14	5 GAL.	SEE PLANS	2-3' H X 3-5' W	SHRUB	L
PLANTER PLANTS									
	DUDLEYA CYMOSA	CANYON DUDLEYA	DUD CYM	11	5 GAL.	SEE PLANS	2' H X 2' W	SUCC	L
✿	AGAVE ATTENUATA 'RAEA'S GOLD'	RAEA'S GOLD AGAVE	AGA ATT	10	5 GAL.	SEE PLANS	3' H X 3' W	SUCC	L

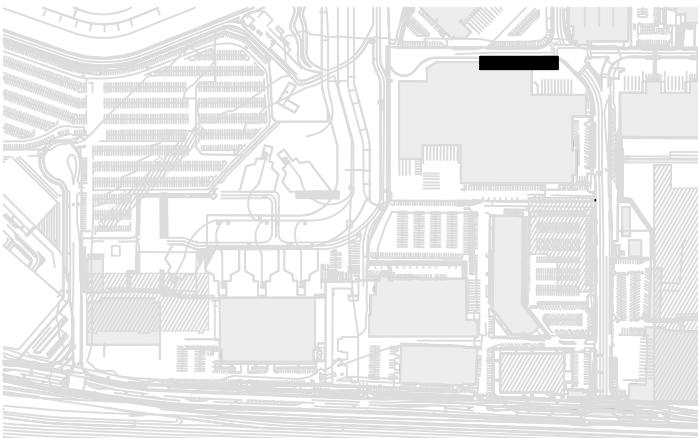
PER = PERENNIAL, SUCC = SUCCULENT

## GENERAL PLANTING NOTES

1. UNLESS NOTED OTHERWISE, ALL NEW PLANTING AREAS THAT ARE CURRENTLY PAVED SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 18" AND BACKFILLED WITH IMPORT TOP SOIL.
2. VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES THAT MAY CONFLICT WITH PLANTING PRIOR TO WORK. ALL COSTS ASSOCIATED WITH LOCATING EXISTING UTILITIES, INCLUDING POT-HOLING, ARE INCLUDED IN THE CONTRACT PRICES PAID FOR THE VARIOUS ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFOR.
3. FINAL LOCATION OF ALL PLANTS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. NOTIFY THE ENGINEER FOR DIRECTION IF PLANT LOCATIONS REQUIRE ADJUSTMENT DUE TO, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING, UNDERGROUND OR ABOVE GROUND UTILITIES, STRUCTURES, SIGHT DISTANCES AND COMPLIANCE WITH UTILITY AND/OR CITY REQUIREMENTS FOR SETBACKS AND RESTRICTIONS. NOTIFICATION TO OCCUR PRIOR TO IRRIGATION AND/OR PLANT INSTALLATION. ENGINEER'S APPROVAL IS REQUIRED FOR ALL ADJUSTMENTS PRIOR TO INSTALLATION. CONTRACTOR IS TO INCLUDE ALL COSTS ASSOCIATED WITH ADJUSTMENTS IN IRRIGATION AND/OR PLANT LOCATIONS IN THE CONTRACT PRICES PAID FOR THE VARIOUS ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFOR.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES, AND FURNISHING AND INSTALLING ALL PLANTS AND MATERIALS SHOWN ON THE PLANS, AS REQUIRED BY THESE CONTRACT DOCUMENTS. IF REQUIRED, ALL PLANTS INCLUDING TREES ARE TO BE CONTRACT GROWN. NO SUBSTITUTIONS DUE TO UNAVAILABILITY WILL BE ALLOWED.
5. PLANTS ARE TO CONFORM TO THE STATE OF CALIFORNIA GRADING CODE OF NURSERY STOCK, NO.1 GRADE, AND SHALL BE IN PRIME CONDITION WHEN INSTALLED AND ACCEPTED. SEE PLANTING SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING QUALITY, TRANSPORTATION, PLANTING, ETC.
6. PLANT MATERIAL SHALL BE PURCHASED FROM SOURCE WITH BEST MANAGEMENT PRACTICES (BMPS) IN PLACE FOR CONTROL OF PHYTOPHTHORA ROOT ROT PATHOGENS THAT MEET OR EXCEED STATE REQUIREMENTS.
7. CONTRACTOR IS RESPONSIBLE FOR FINISH GRADING ALL LANDSCAPED AREAS INCLUDING TOPSOIL AND MULCHED DIRT AREAS. ALL LANDSCAPED AREAS ARE TO HAVE POSITIVE DRAINAGE. NO LOW SPOTS OR BIRDBATHS WILL BE ALLOWED.
8. SOIL AMENDMENT FOR ALL PLANTING AREAS SHALL BE ORGANIC YARD WASTE COMPOST APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH THE SPECIFICATIONS.
9. INSPECTION OF ALL PLANTS WILL BE DONE BY THE ENGINEER AT THE PROJECT SITES.
10. INSTALL A 3 INCH LAYER OF TOPDRESS IN ALL TREE AND SHRUB BASINS AND ALL PLANTING AREAS EXCEPT WHERE SHOWN AND EXCEPT IN BIORETENTION BASINS. KEEP MULCH AWAY FROM DIRECT CONTACT WITH STEMS OF PLANTS AND TRUNKS OF TREES. SEE SPECIFICATIONS FOR MULCH TYPES AND INSTALLATIONS. BIORETENTION BASINS SHALL RECEIVE A 3" DEPTH LAYER OF NON-FLOATING MULCH TOPDRESS. NON-FLOATING MULCH SHALL CONFORM TO THE REQUIREMENTS OF THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD REQUIREMENTS FOR NON-FLOATING MULCH IN BIORETENTION FACILITIES.
11. TEST SOILS IN PLANTING AREAS IN ACCORDANCE WITH THE SPECIFICATIONS AND ADD RECOMMENDED CHEMICALS, FERTILIZERS AND AMENDMENTS AS REQUIRED BY THE SOIL TESTS. NOTIFY ENGINEER FOR DIRECTION REGARDING ANY ISSUES PRIOR TO WORK.
12. NO PESTICIDES FERTILIZERS WILL BE APPLIED PAST INITIAL ESTABLISHMENT PERIOD (IN LINE WITH ENVISION CREDIT NW2.3 REDUCE PESTICIDE AND FERTILIZER IMPACTS). PROJECT SHALL COMPLY WITH SFO INTEGRATED PEST MANAGEMENT PROGRAM REQUIREMENTS.

1

## PLANTING LEGEND AND NOTES



Key Map

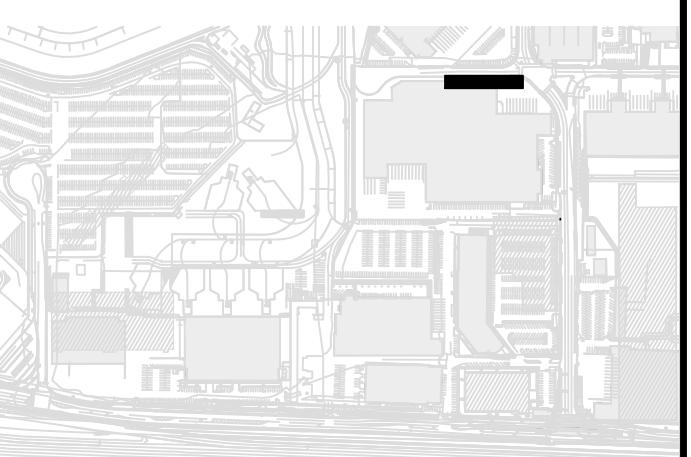
REVISIONS

NO.

DATE

DESCRIPTION





Key Map

REVISIONS	DESCRIPTION

NO. DATE

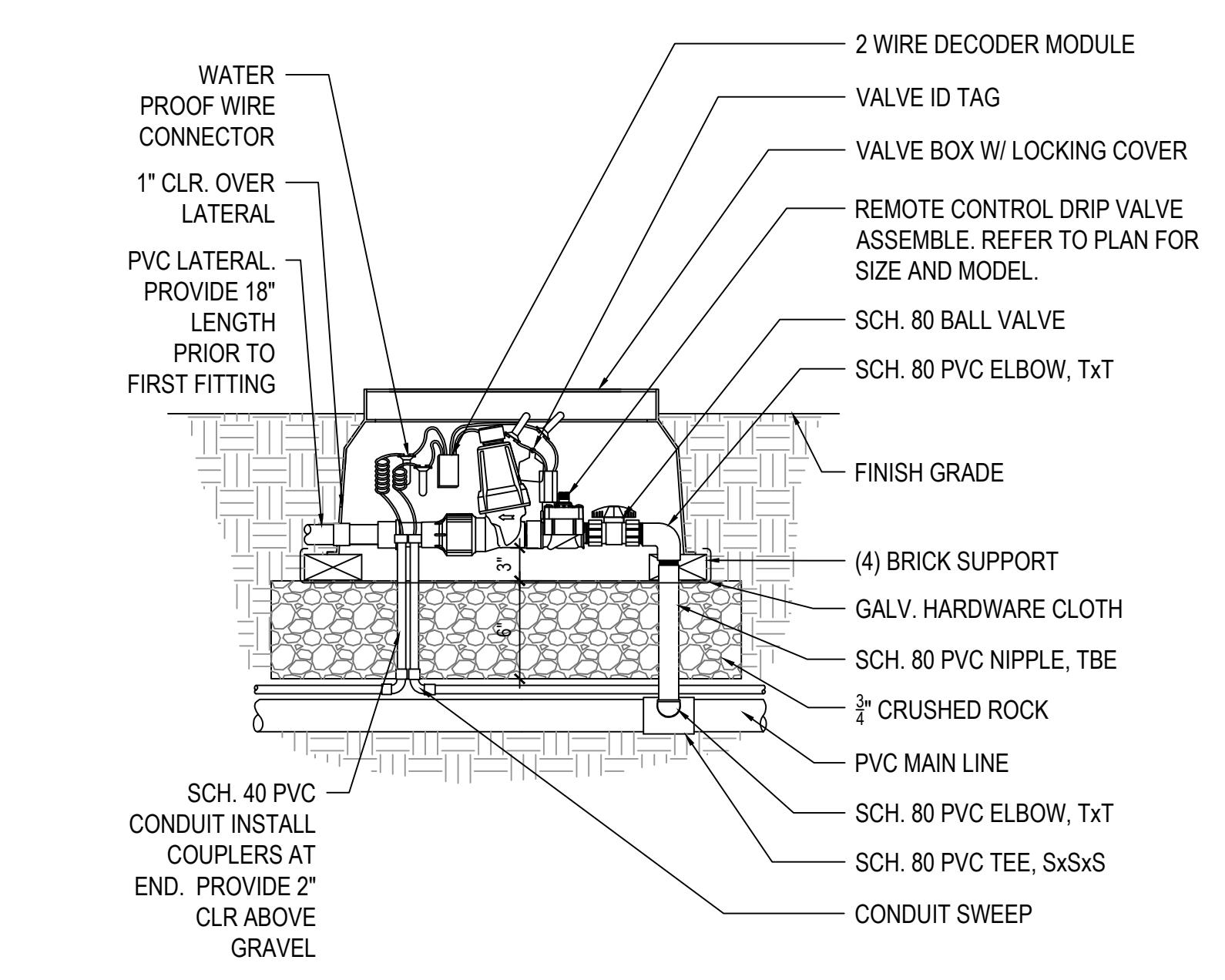
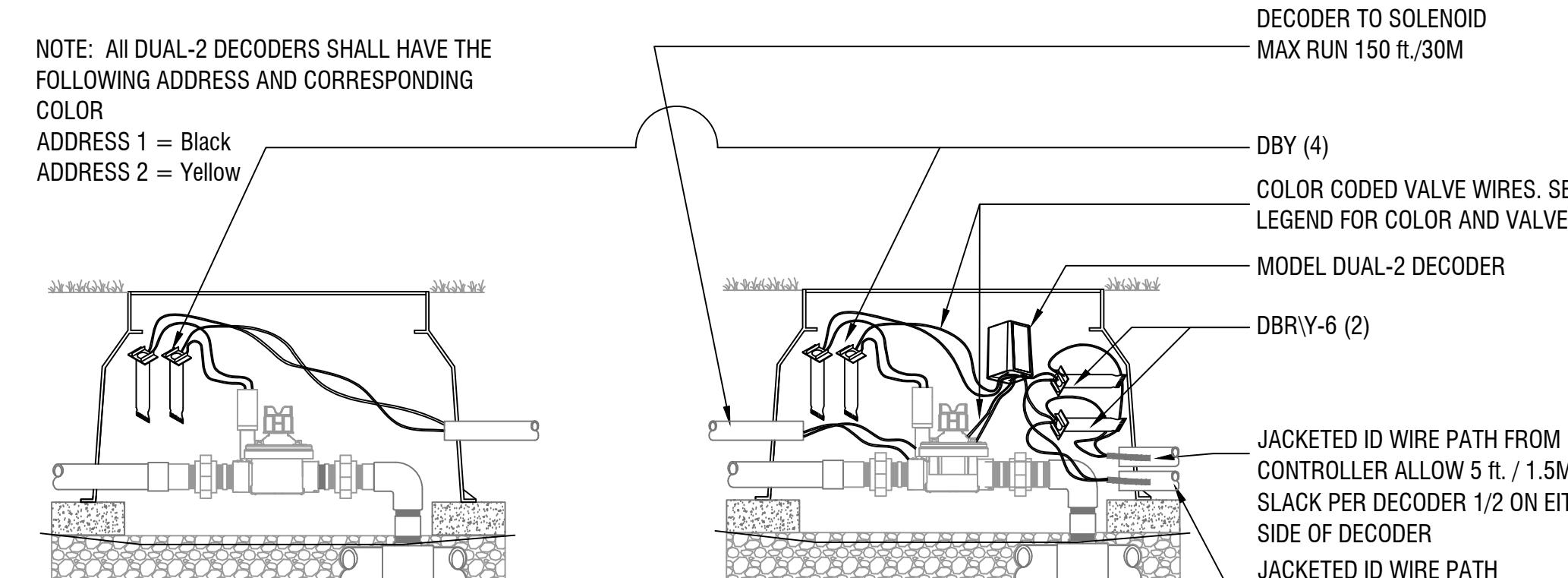
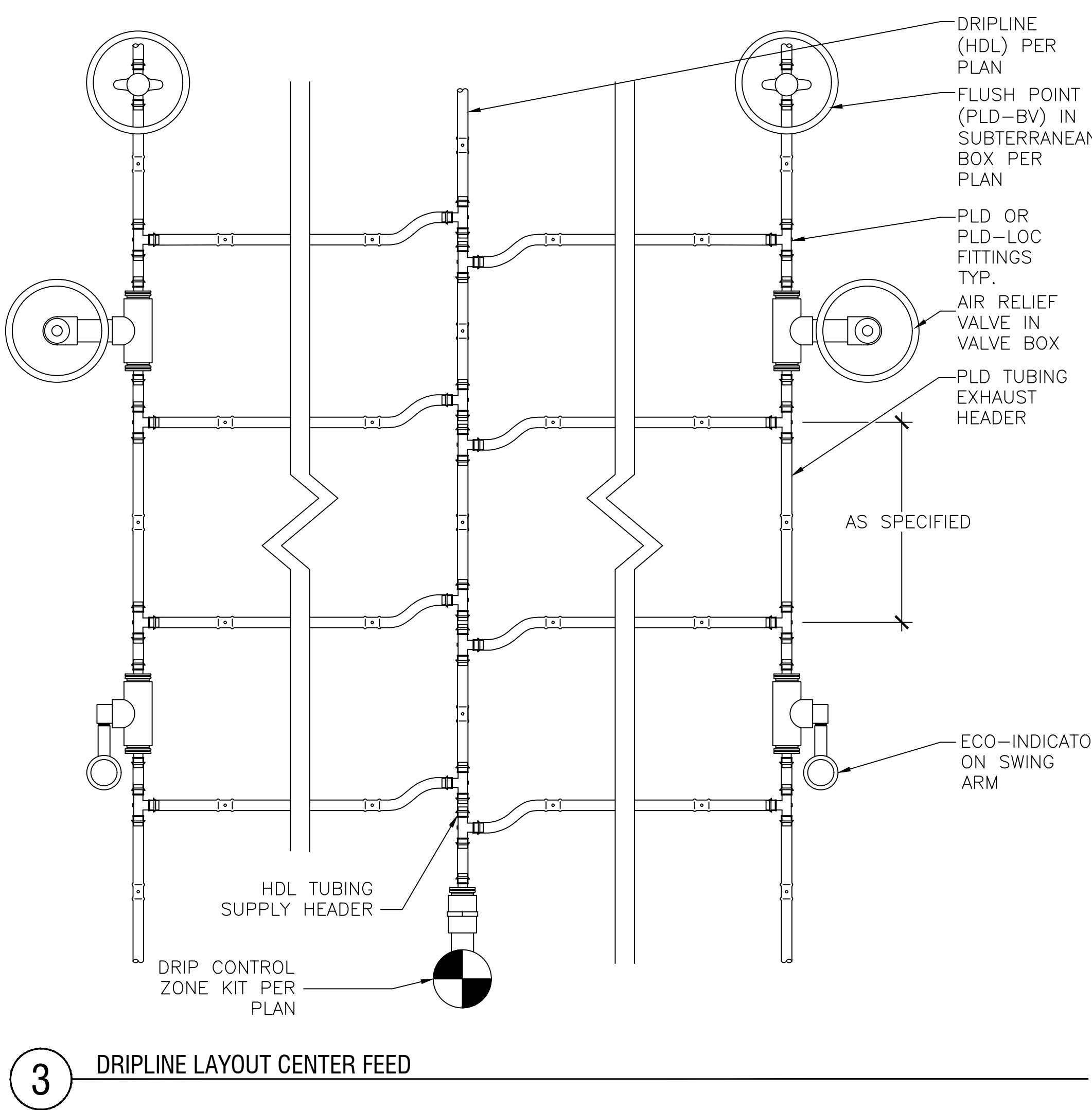
CONTRACT NO.	PROJECT TITLE	SHEET TITLE
11921.66	WEST FIELD UTILITIES AND PAVING - STATION BP	IRRIGATION DETAILS

SEAL CONSULTANT'S LOGO

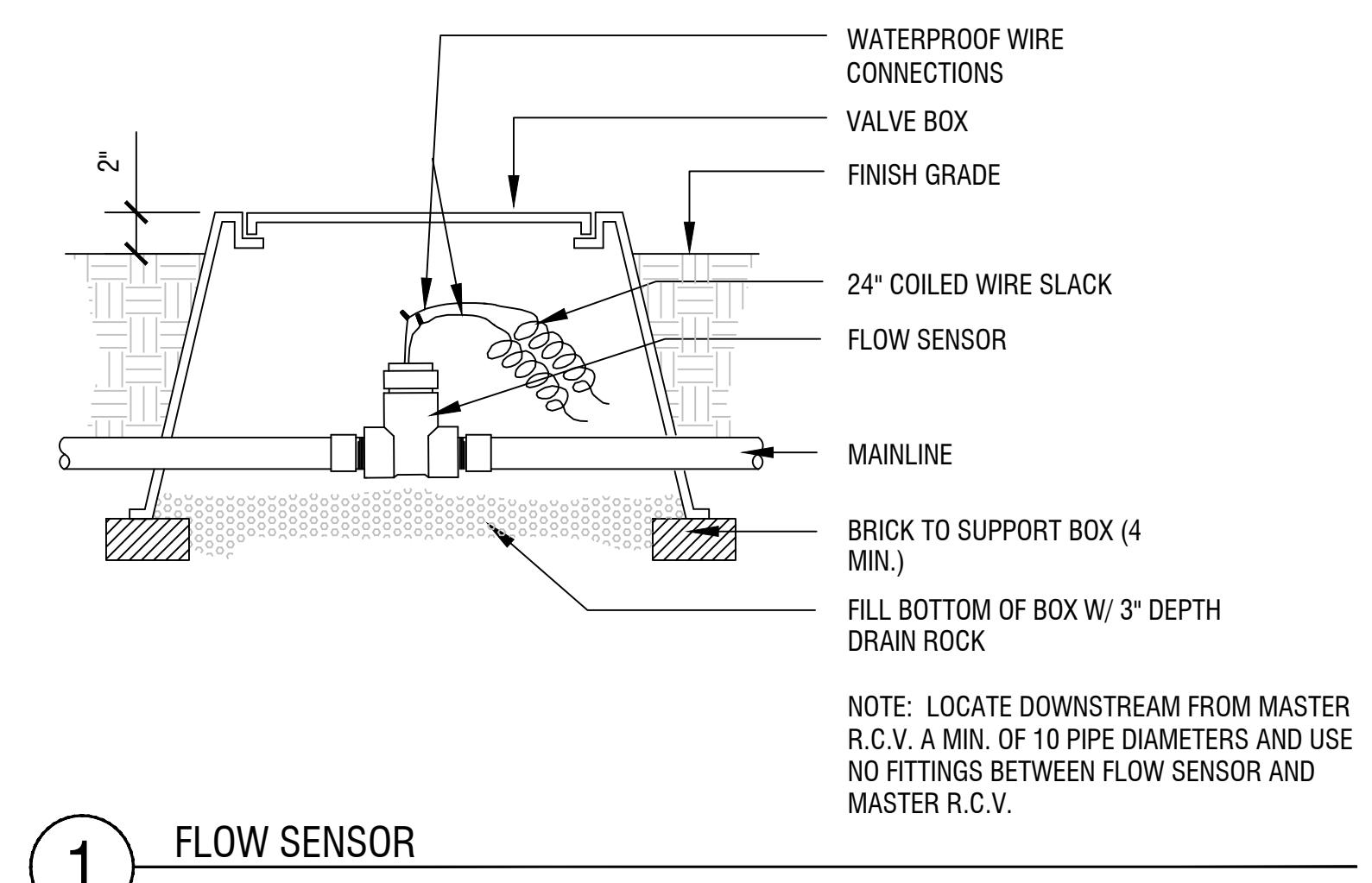
**Merrill Morris**  
Landscape Architects & Planners

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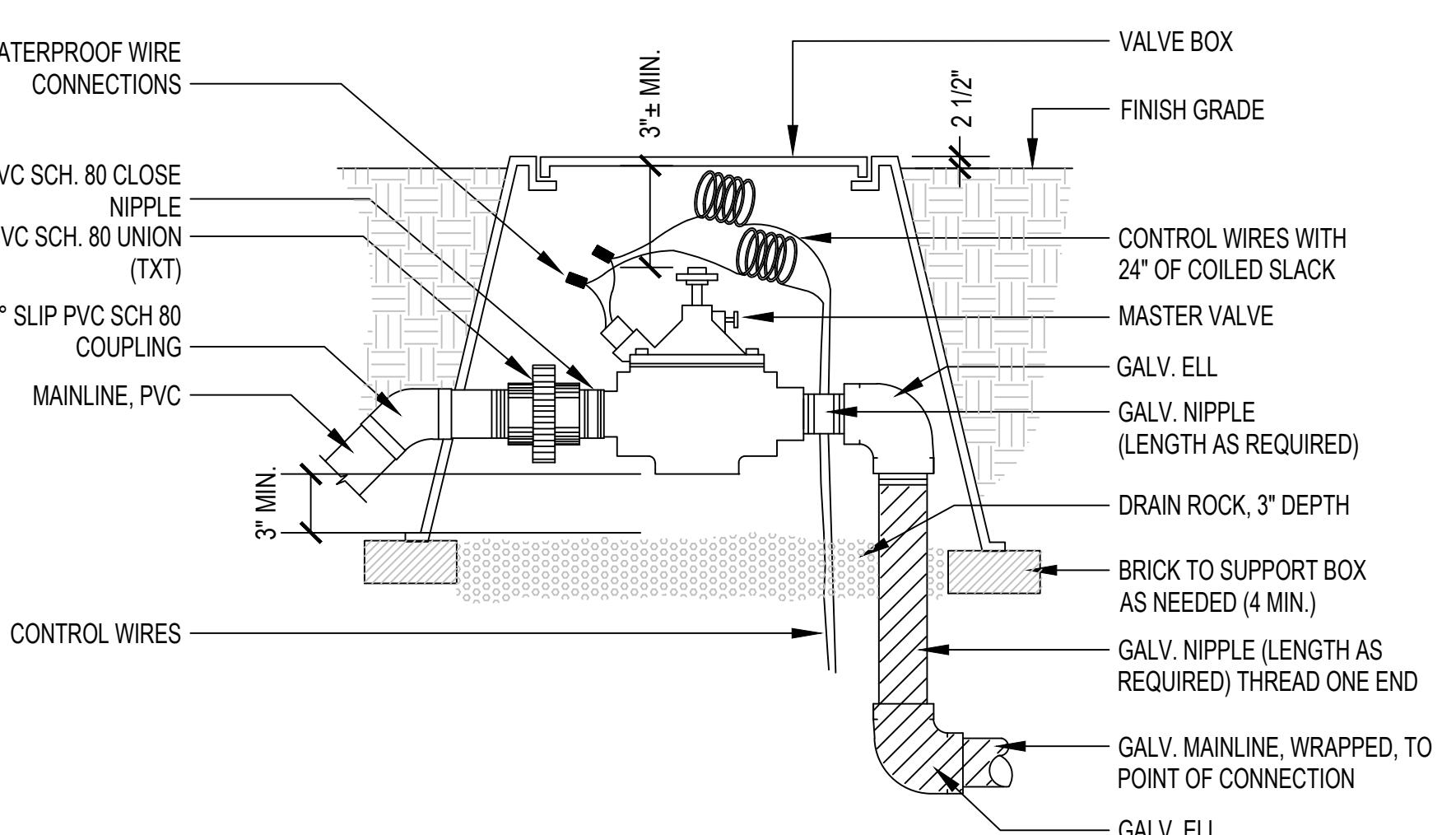
NOTES:  
AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE  
NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.  
ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.  
FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.



2 DRIP CONTROL ZONE KIT (ICZ-101)



1 FLOW SENSOR



4 MASTER VALVE

DESIGNED BY:  
JP  
DRAWN BY:  
LG  
SCALE:  
NONE  
SHEET NUMBER:  
L8.0.2

REVISION  
0  
SEQUENCE NUMBER  
## OF 148

## Key Map

# WEST FIELD UTILITIES AND PAVING - STATION BP

## PLANTING DETAILS

# Merrill

# orriS

A blank landscape architect's drawing template. The top header contains 'PROJECT TITLE' and 'SHEET TITLE' on either side of a large, bold, italicized 'W'. The bottom right corner features a large, stylized 'Merrill Morris' logo with the text 'Landscape Architects & Planners' underneath.

SIGNED BY: P	CHECKED BY: CM
DRAWN BY: G	DATE: JANUARY 26, 2026
SCALE: ONE	SIZE 1000 x 700

MEET NUMBER  
8.0.3  
EVISION  
0      SEQUENCE NUMBER  
\_\_\_\_\_ # #      OF      148

