

LANDSCAPE IRRIGATION EQUIPMENT LEGEND						
SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL	
	(OR APPROVED EQUAL)					
	PER EID	PER EID	DEDICATED IRRIGATION WATER METER	1-1/2" SIZE, POTABLE WITH 2" SERVICE LINE, INSTALLED PER EL DORADO IRRIGATION DISTRICT STANDARD.	W20A	
	FEBCO	LF825Y	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE	2" SIZE. INSTALLED PER EL DORADO IRRIGATION DISTRICT STANDARD.	W22	
	N/A	N/A	POINT-OF-CONNECTION	2" SIZE. REFER TO CIVIL DWGS. FIELD VERIFY SIZE, LOCATION AND STATIC PRESSURE.	N/A	
	HUNTER	A2C-75D-M/ACC-PED	AUTOMATIC IRRIGATION CONTROLLER	75 STATION MODULAR DECODER CONTROLLER INSTALLED IN A GRAY METAL OUTDOOR ENCLOSURE MOUNTED ON MATCHING METAL PEDESTAL	1/LI-503, 2/LI-503	
	HUNTER	WSS-SEN	WIRELESS CLIMATE SENSOR	RADIATION, AIR TEMPERATURE, AND RAIN SENSOR DISTANCE FROM CONTROLLER SHALL NOT EXCEED 200-FEET. REFER TO PLAN FOR ADDITIONAL INFORMATION. KIT INCLUDES WIRELESS SENSOR AND WIRELESS RECEIVER	-	
NOT SHOWN	HUNTER	ID2GRY	2-WIRE DECODER CABLE	12 AWG. SOLID COPPER, 2 CONDUCTOR, POLYETHYLENE JACKETED (GRAY) POLYVINYL INSULATED WIRE. SPLICES, WHEN APPROVED, SHALL USE WATER TIGHT DIRECT BURY ELECTRICAL SPLICE KITS, INCLUDED WITH DECODER. INSTALL IN SAME TRENCH AS PVC MAIN LINE PIPE.	-	
NOT SHOWN	HUNTER	ICD-100	2-WIRE DECODER	SINGLE-STATION 2-WIRE DECODER WITH SURGE SUPPRESSION. EACH DECODER INCLUDES TWO WATERPROOF CONNECTORS FOR RED AND BLUE WIRES. INSTALL ONE (1) DECODER PER REMOTE CONTROL VALVE.	3/LI-503	
	NETAFIM	LHM2TG1PREHR	HYDROMETER WITH REED SWITCH (COMBINATION FLOW METER, MASTER VALVE AND PRESSURE REGULATOR)	2" SIZE, NORMALLY CLOSED. WIRE TO CONTROLLER USING DIFFERENT COLOR COMMON AND CONTROL WIRES. REFER TO SPECS. SET REGULATOR TO 65 PSI.	6/LI-501	
	PAIGE/PW PIPE	P7162D	HYDROMETER SHIELDED COMMUNICATION CABLE AND CONDUIT	16 AWG/ 1 PAIR WITH DRAIN WIRE IN GRAY SCHEDULE 40 VC CONDUIT AND SWEEPS. LOCATE PULL BOXES EVERY 200' O.C. AND AS DIRECTED BY OWNER'S REPRESENTATIVE. SPLICES, WHEN APPROVED, SHALL USE WATER TIGHT DIRECT BURY ELECTRICAL SPLICE KITS: 3M MODEL # DBR/Y-6	12/LI-502, 13/LI-502	
NOT SHOWN	NDS		PULL/ SPLICE BOXES	LOCATE PULL/SPLICE BOXES AT ENDS OF ALL SLEEVES, AND AS DIRECTED BY OWNER'S REPRESENTATIVE. ALL WIRING SHALL BE INSTALLED IN GRAY SCH. 40 PVC CONDUIT W/ SWEEPS.	12/LI-502, 13/LI-502	
NOT SHOWN	NIBCO	T-FP-600-A SERIES	MANIFOLD ISOLATION GATE VALVE (2" AND SMALLER)	LINE SIZE. TWO-PIECE BODY, FULL PORT WITH NPT THREADED ENDS. BALL VALVES SHALL BE USED ONLY ON MANIFOLD SUB-MAINLINES.	8/LI-501	
	NIBCO	T-113-BHW	MAINLINE ISOLATION GATE VALVE (2" AND SMALLER)	MAINLINE SIZE.	10/LI-501	
	HUNTER	HQ-33DLRC	QUICK COUPLER VALVE	3/4-INCH SIZE. NPT THREAD WITH YELLOW LOCKING RUBBER COVER. PROVIDE WITH TWO (2) QUICK COUPLER KEYS WITH KEY SWIVELS AND TWO (2) LOCKING COVER KEYS. INSTALL QCV ON 1-1/2" MAINLINE STUB-OFF. LOCATE QCV AS SHOWN ON PLANS, BUT NO MORE THAN 200' O.C.	5/LI-501, 3/LI-501, 4/LI-501	
	HUNTER	ICV-#G-AS	REMOTE CONTROL VALVE	GLASS-FILLED NYLON GLOBE VALVE WITH PRESSURE REGULATING MODULE. SIZE PER PLAN. INSTALL WITHIN VALVE MANIFOLD WHEN GROUPED WITH OTHER VALVES. SIZE MANIFOLD TO MATCH LARGEST LATERAL LINE SIZE.	9/LI-501, 3/LI-501, 4/LI-501	
	NETAFIM	REFER TO REMARKS	DRIP REMOTE CONTROL VALVE ASSEMBLY	SIZE PER PLAN. VALVE SHALL BE INSTALLED WITH INLINE SCREEN FILTER AND PRESSURE REGULATOR. DO NOT INSTALL REGULATOR WHEN UPSTREAM PRESSURES ARE LESS THAN 50 PSI. USE NETAFIM KIT MODEL# LVCZS80SF10075-LF FOR VALVES WITH FLOW RATES LESS THAN 4 GPMS; MODEL# LVCZSF10075-HFHP FOR VALVES WITH FLOW RATES GREATER THAN 4 GPMS AND LESS THAN 11 GPMS; MODEL # LVCZSF-150HP FOR VALVES WITH FLOW RATES GREATER THAN 11 GPMS AND UP TO 35 GPMS. INSTALL WITHIN VALVE MANIFOLD WHEN GROUPED WITH OTHER VALVES. SIZE MANIFOLD TO MATCH LARGEST LATERAL LINE SIZE.	1/LI-502, 3/LI-501, 4/LI-501	
	PW PIPE		SOLVENT WELD PRESSURE MAINLINE PIPE	2" SIZE UNLESS NOTED DIFFERENTLY ON PLANS. USE CLASS 315 PVC PIPE FOR MAINLINE PIPE 2" AND LARGER; USE SCH. 40 PVC FOR MAINLINE PIPE 1-1/2" AND SMALLER. INSTALL WITH COPPER TRACE WIRE (SEE SPECS). MAINLINE 2" OR LARGER SHALL BE INSTALLED WITH THRUST BLOCKS.	1/LI-501, 2/LI-501	
	PW PIPE		SOLVENT WELD NON-PRESSURE LATERAL PIPE	SIZE PER PLAN. SCH. 40 PVC PLASTIC PIPE		
	PW PIPE		IRRIGATION PIPE/ CONTROL WIRES/ SENSOR WIRE SLEEVE	SCH. 40 PVC. QUANTITIES SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE THE QUANTITIES AND SIZES REQUIRED. REFER TO PIPE/WIRE SLEEVING CHART FOR ADDITIONAL INFORMATION. SLEEVES SHALL BE USED WHENEVER PIPE AND/OR WIRES CROSS UNDER PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.		
NOT SHOWN	SEE SPECS	SEE SPECS	THRUST BLOCK	INSTALL ON MAINLINE 2" IN SIZE AND LARGER	7/LI-501	
NOT SHOWN	KBI	#SERIES	SPRING TYPE CHECK VALVE	LATERAL LINE SIZE. INSTALL DOWNSTREAM OF EACH RCV WHEN RCV IS HIGHER THAN THE EMISSION DEVICE	-	
NOT SHOWN	KBI	#SERIES	SWING TYPE CHECK VALVE	LATERAL LINE SIZE. INSTALL DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE EMISSION DEVICE	-	

TREE WATER SYSTEMS						
SYMBOL	MFG'R	MODEL #	DESCRIPTION	OP. PSI	REMARKS	DETAIL
	(OR APPROVED EQUAL)					
	HUNTER	IH-RISER-36/SCREEN-CV/PCB-25	TREE ROOT WATERING SYSTEMS (15 GAL. TREES)	30	FLOW: 0.25 GPM EACH. INSTALL TWO (2) ON-GRADE BUBBLERS ON UPR HILL SIDE OF TREE WHEN ON SLOPE.	10/LI-502, 11/LI-502
	NETAFIM	TLHCVR5-12	TRIPLE DRIP RING (MITIGATION OAK TREES)	30	FLOW: 0.32 GPM PER TREE. EMITTERS AT 12" ON CENTER, RINGS AT 12" OFFSET. INSTALL 1" BELOW GRADE WITH GALVANIZED TUBING STAKES TO HOLD IN PLACE.	9/LI-502

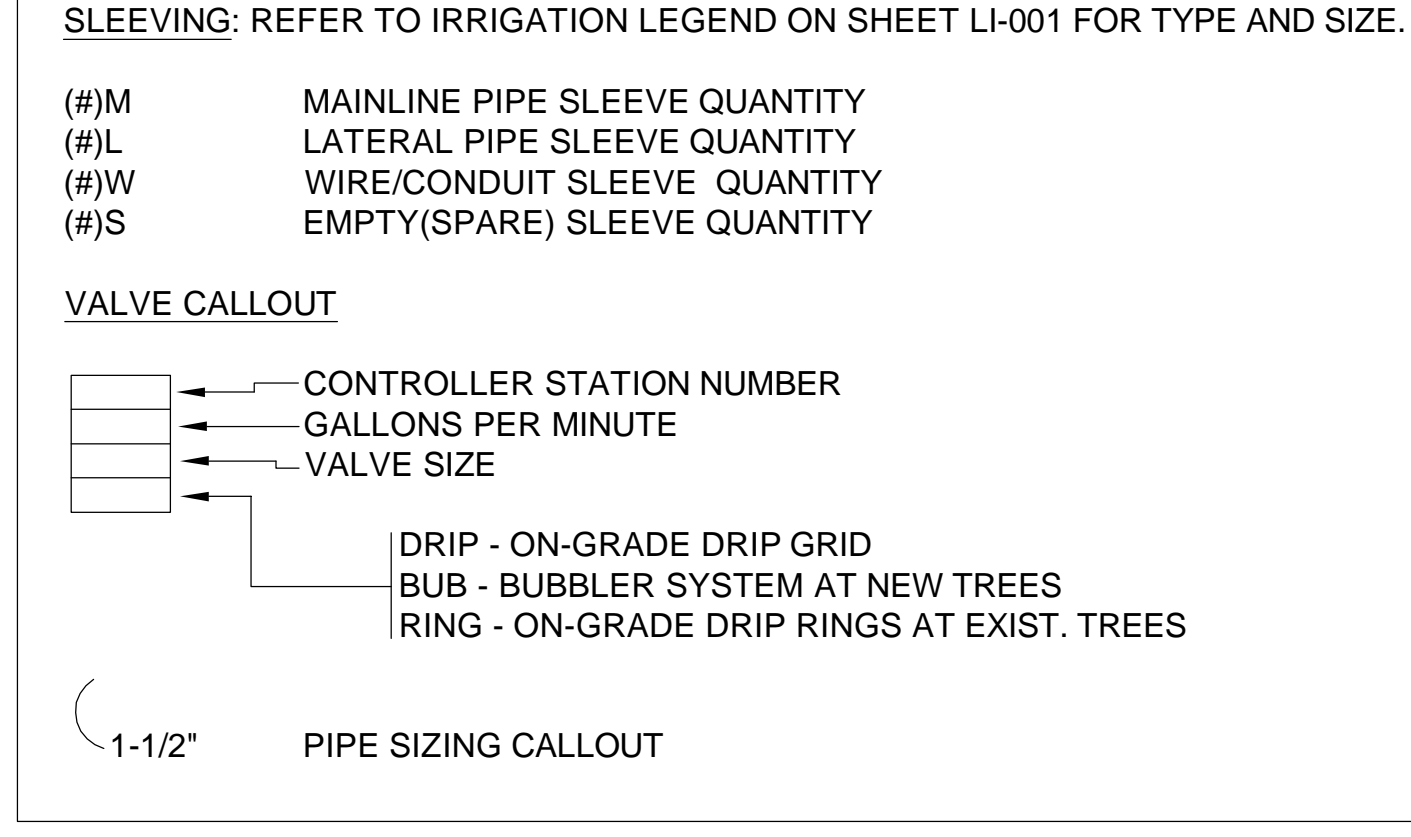
  

DRIP IRRIGATION SYSTEM							
SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL		
	(OR APPROVED EQUAL)						
	NIBCO		MANUAL FLUSH VALVE	PVC, 1/2" SIZE. REFER TO GENERAL NOTES FOR ADDITIONAL INFO AND REQS.	2/LI-502		
	HUNTER	ECO-INDICATOR	OPERATION INDICATOR	INSTALL AT APPROXIMATE LOCATION SHOWN ON PLANS.	3/LI-502		
	NETAFIM	TLHCVR5-12#	GENERAL LANDSCAPE AREAS: 12" O.C. INLINE EMITTER DRIPLINE WITH CUPRON ROOT INTRUSION PROTECTION AND PRESSURE COMPENSATING, ANTI-SIPHON, SELF-FLUSHING EMITTERS WITH HIGH CHECK VALVES.	OPERATING PSI	EMITTER FLOW	MAX ALLOWED HORZ. ROW SPACING	BURIAL DEPTH
				35	0.53	24-INCHES	1"
	NETAFIM	TLHCVR7-12#	STORMWATER PLANTERS: 12" O.C. INLINE EMITTER DRIPLINE WITH CUPRON ROOT INTRUSION PROTECTION AND PRESSURE COMPENSATING, ANTI-SIPHON, SELF-FLUSHING EMITTERS WITH HIGH CHECK VALVES.	OPERATING PSI	EMITTER FLOW	MAX ALLOWED HORZ. ROW SPACING	BURIAL DEPTH
			35	0.77	12-INCHES	1"	

### GENERAL IRRIGATION NOTES

- THE IRRIGATION SYSTEM IS DESIGNED FOR A MAXIMUM DEMAND OF 50 GALLONS PER MINUTE (GPM) AND ASSUMES A MINIMUM AVAILABLE STATIC PRESSURE OF 65 PSI AT THE IRRIGATION WATER POINT-OF-CONNECTION. THE CONTRACTOR SHALL FIELD VERIFY AVAILABLE STATIC PRESSURE AND FLOW PRIOR TO THE START OF CONSTRUCTION AND THE ORDERING OF MATERIALS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE ANTICIPATED FLOW AND PRESSURE REQUIREMENTS AND ACTUAL SITE CONDITIONS IN WRITING TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SUFFICIENT FLOW AND PRESSURE AVAILABILITY. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE LANDSCAPE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS AND TRADES FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT, AND SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURES, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS AND IN FIELD MODIFICATIONS.
- IRRIGATION COMPONENTS SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, AND ALL OTHER IRRIGATION COMPONENTS WITHIN ADJACENT PLANTING AREAS EXCEPT WHERE PIPES CROSS PAVING OR AS NOTED. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND TREES, PLANTINGS, SITE FEATURES AND UTILITIES INCLUDING STORM DRAINAGE AND ELECTRICAL.
- INSTALLATION OF THE IRRIGATION SYSTEM UNDER THIS CONTRACT SHALL CONFORM TO ALL LOCAL, COUNTY, AND STATE PROVISIONS, INCLUDING THOSE STATED IN THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, AND THE NATIONAL ELECTRIC CODE. IN THE EVENT OF DIFFERENCES BETWEEN THE CODE COMPLIANCE REQUIREMENTS OF THIS CONTRACT, THE BETTER QUALITY, HIGHER STANDARD, LARGER SIZE, AND MORE STRINGENT REQUIREMENT SHALL PREVAIL.
- PRIOR TO ANY TRENCHING THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITY LINES. CALL 811 A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO MAINTAIN GOOD PLANT HEALTH, APPEARANCE AND REASONABLE GROWTH. THE AMOUNT OF SUPPLEMENTAL WATER A PLANT REQUIRES IS DEPENDENT ON SOIL TYPE, PLANT MATERIAL, ROOTING DEPTH, CLIMATE, SEASONAL CHANGES, SLOPES, MOUNDS, SUN, SHADE, AND WIND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE IRRIGATION SCHEDULE AND ET VARIABLES AS NEEDED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATER TO ACCOMMODATE SPECIAL WATER NEEDS OF PLANT MATERIAL THROUGH THE MAINTENANCE PERIOD. ACTUAL STATION RUN TIMES MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS.
- CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE DRIPLINE LAYOUT AS PER ACTUAL FIELD CONDITIONS TO ACHIEVE FULL COVERAGE OF ALL PLANTED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE OF INSTALLING ADDITIONAL DRIPLINE, AS NEEDED, TO PROVIDE ADEQUATE COVERAGE, AT NO ADDITIONAL COST TO THE CLIENT. REFER TO IRRIGATION EQUIPMENT LEGEND FOR MAXIMUM ALLOWED VERTICAL DRIPLINE SPACING.
- IRRIGATION SYSTEM SHALL BE OPERATIONAL & COVERAGE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANTING MATERIAL.
- THE CONTRACTOR SHALL FLUSH ALL EMISSION EQUIPMENT FOR OPTIMUM PERFORMANCE TO PROVIDE OPTIMAL EVEN DISTRIBUTION OF WATER, AND TO PROVIDE PROPER COVERAGE.
- SUBSURFACE EMITTER FLOW RATE, EMITTER SPACING AND LATERAL SPACING IS BASED ON TYPICAL SOILS ENCOUNTERED IN THE AREA. THE CONTRACTOR SHALL MAKE ANY MODIFICATION TO EMITTER FLOW RATE, EMITTER SPACING, AND LATERAL SPACING AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR AN EVEN WETTED PATTERN. BASED ON ACTUAL SOIL ANALYSIS. REFER TO DRIPLINE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL INFORMATION. FINAL EMITTER SPACING AND FLOW RATE TO BE APPROVED BY THE CLIENT REPRESENTATIVE.
- CONTRACTOR SHALL ADJUST THE DRIPLINE LAYOUT, WHEN PLANTER SLOPE IS GREATER THAN 5 PERCENT, TO PROVIDE LATERAL ROW SPACING THAT IS 25 PERCENT GREATER WITHIN THE BOTTOM ONE-THIRD OF THE SLOPE.
- LOCATIONS AND THE QUANTITIES OF FLUSH VALVES AND AIR/VACUUM RELIEF VALVES (AVRV) SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HIGHEST POINTS OF EACH HYDROZONE AND LOCATING AVRV'S AS REQUIRED AND FOR INSTALLING ADDITIONAL FLUSH VALVES, AS NEEDED, ACCORDING TO MANUFACTURER'S GALLONS PER HOUR REQUIREMENTS PER HYDROZONE AT NO ADDITIONAL COST TO THE CLIENT.
- ALL VALVES PROVIDING IRRIGATION TO SLOPED AREAS ARE TO BE SCHEDULED IN MULTIPLE, SHORT CYCLES TO ELIMINATE RUNOFF.
- DRAINAGE OF IRRIGATION WATER THROUGH EQUIPMENT WILL NOT BE ALLOWED. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ADDITIONAL IN-LINE CHECK VALVES AS REQUIRED IN ANY AREA WHERE EMISSION DEVICES SHOW SIGNS OF DRAINAGE AFTER IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION.
- MAINLINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE INDICATED TO BE THE SAME AS INLET OF PRODUCT IT SUPPLIES, BUT NOT LESS THAN 1-INCH. LATERAL PIPE SIZES DOWNSTREAM OF LAST PIPE SIZE CALL OUT SHALL BE SAME AS THE LAST PIPE SIZE CALLED OUT, BUT NO LESS THAN 3/4-INCH.
- ALL IRRIGATION EQUIPMENT SHALL BE AS LISTED OR EQUAL AS APPROVED BY THE LANDSCAPE ARCHITECT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, COORDINATE AND PROVIDE THE FINAL CONNECTION OF THE CONTROLLER TO ITS DEDICATED POWER SOURCE. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR AND SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND ALL STATE AND LOCAL CODES AND REGULATIONS. ALL ELECTRICAL WORK SHALL BE REQUIRED TO PASS CITY INSPECTION.
- CONTRACTOR SHALL PULL SPARE WIRES TO THE FURTHEST POINTS OF THE MAINLINE AS INDICATED ON THE PLANS. WIRES SHALL BE TERMINATED IN A VALVE BOX AND WIRE ENDS SHALL BE CAPPED WITH WATERPROOF WIRE SPLICES.
- SEE IRRIGATION DETAILS, TECHNICAL SPECIFICATIONS AND PLANTING PLANS AS PART OF THESE CONSTRUCTION DOCUMENTS.

### GENERAL IRRIGATION LEGEND



### PRESSURE MAINLINE PIPE SIZING CHART SCH. 40 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

PIPE SIZE	MAXIMUM GALLONS PER MINUTE
3/4 - INCH	
1 - INCH	
1-1/4 - INCHES	
1-1/2 - INCHES	
2 - INCHES	

### NON-PRESSURE LATERAL PIPE SIZING CHART CLASS 200 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

PIPE SIZE	MAXIMUM GALLONS PER MINUTE
3/4 - INCH	0 - 4
1 - INCH	4 - 8
1-1/4 - INCHES	8 - 16
1-1/2 - INCHES	16 - 22
2 - INCHES	22 - 34

### CONDUIT/PIPE SLEEVE SIZING CHART (FOR REFERENCE USE ONLY)

SCHEDULE 40 PVC PIPE SLEEVE SIZE	MAXIMUM IRRIGATION PIPE/WIRE CONDUIT SIZE
1-1/2 - INCHES	1/2 - INCH
2 - INCHES	3/4 - INCH
2-1/2 - INCHES	1 - INCH
3 - INCHES	1-1/4 - INCHES
4 - INCHES	1-1/2 TO 2 - INCHES

### MAXIMUM NUMBER OF WIRES TO BE INSTALLED WITHIN SLEEVING OR CONDUIT (FOR REFERENCE ONLY)

WIRE SIZE	CONDUIT / SLEEVE SIZE						
	1.25"	1.5"	2"	2.5"	3"	4"	6"
	MAXIMUM AMOUNT OF WIRES ALLOWED						
14	1 - 18	25	40	56	88	120	120+
12	1 - 15	20	33	50	75	102	102+
10	1 - 13	16	27	40	63	85	85+



Know what's below  
Call before you dig.



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

PROJECT NO.:	30517.00
DATE:	04-16-2018
DESIGNED BY:	JJL
DRAWN BY:	JJJ/DV
APPROVED BY:	RL
<b>SHEET TITLE:</b>	LANDSCAPE IRRIGATION LEGEND AND NOTES
<b>SHEET NUMBER:</b>	<b>PS-LI-001</b>

18-0565 C 1 of 23





MATCH LINE - SEE SHEET PS-LI-103

MATCH LINE - SEE SHEET PS-LI-102

**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

(#)M MAINLINE PIPE SLEEVE QUANTITY  
 (#)L LATERAL PIPE SLEEVE QUANTITY  
 (#)W WIRE/CONDUIT SLEEVE QUANTITY  
 (#)S EMPTY(SPARE) SLEEVE QUANTITY

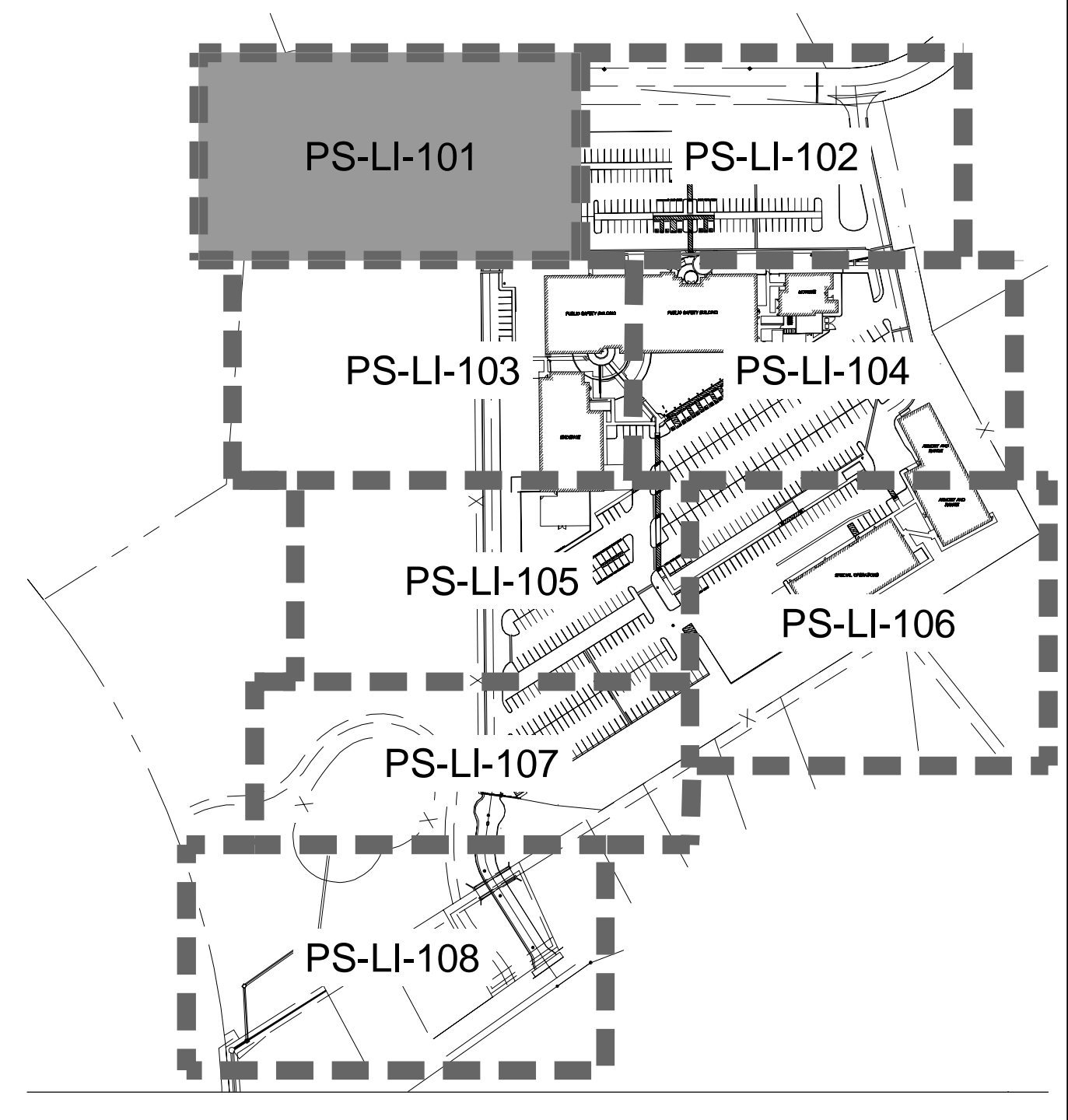
**VALVE CALLOUT**

	CONTROLLER STATION NUMBER
	GALLONS PER MINUTE
	VALVE SIZE
	DRIP - ON-GRADE DRIP GRID
	BUB - BUBBLER SYSTEM AT NEW TREES
	RING - ON-GRADE DRIP RINGS AT EXIST. TREES

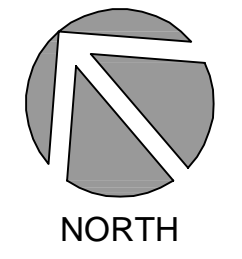
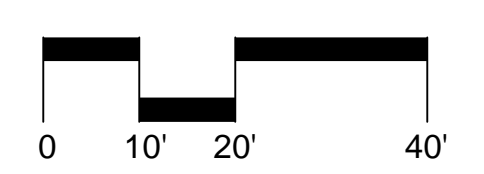
1-1/2" PIPE SIZING CALLOUT

**GENERAL NOTES**

- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
- REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



**C/S BROWARD builders**

**Arrington Watkins Architects**

2024 Opportunity Drive, Suite 150  
 Roseville, California 95678  
 Telephone: (916) 338-7707  
 Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

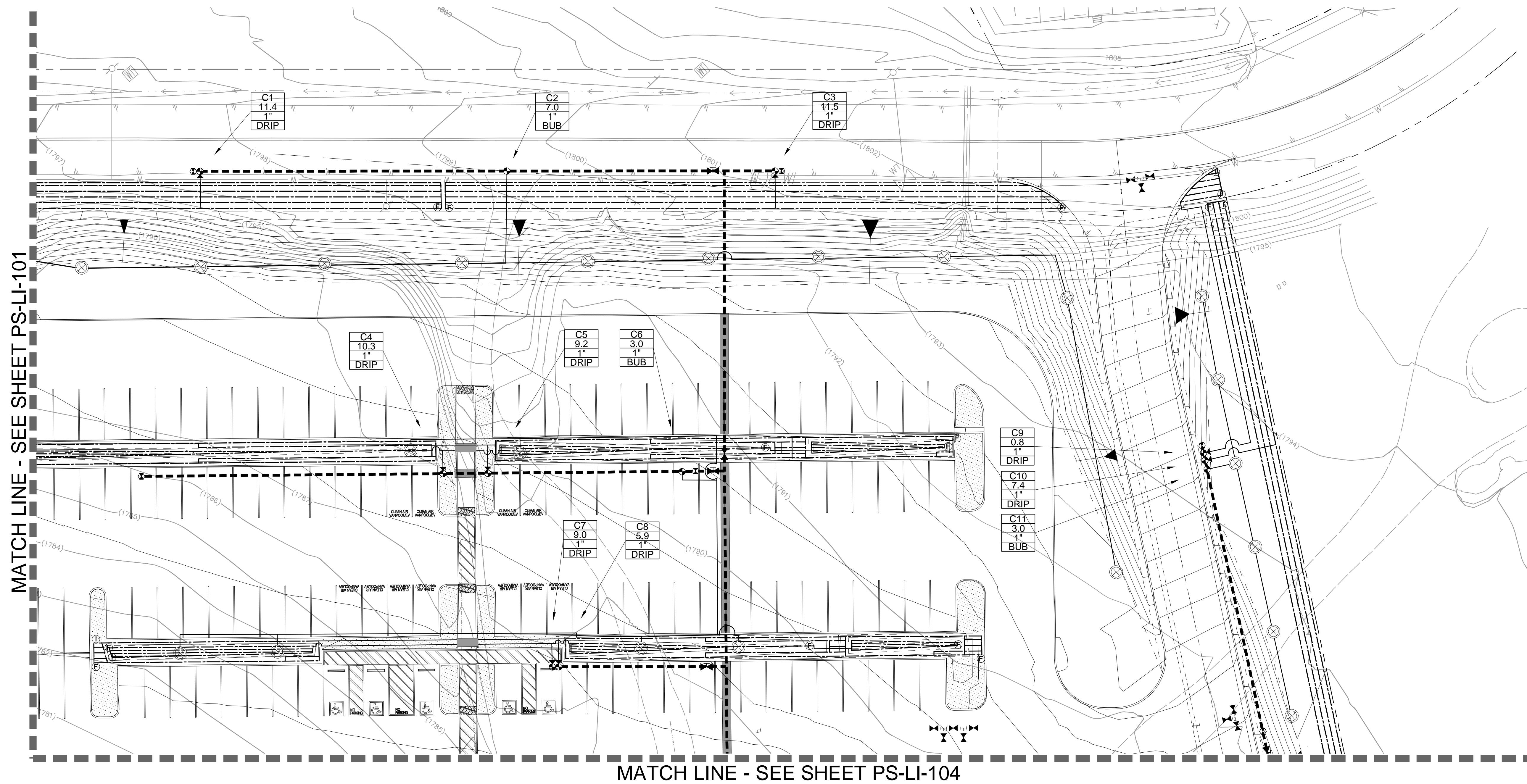
PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JLL  
 DRAWN BY: JJLDV  
 APPROVED BY: RL

**SHEET TITLE:**  
 LANDSCAPE  
 IRRIGATION PLAN - A

**SHEET NUMBER:**  
**PS-LI-101**

18-0565 C 2 of 23





**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

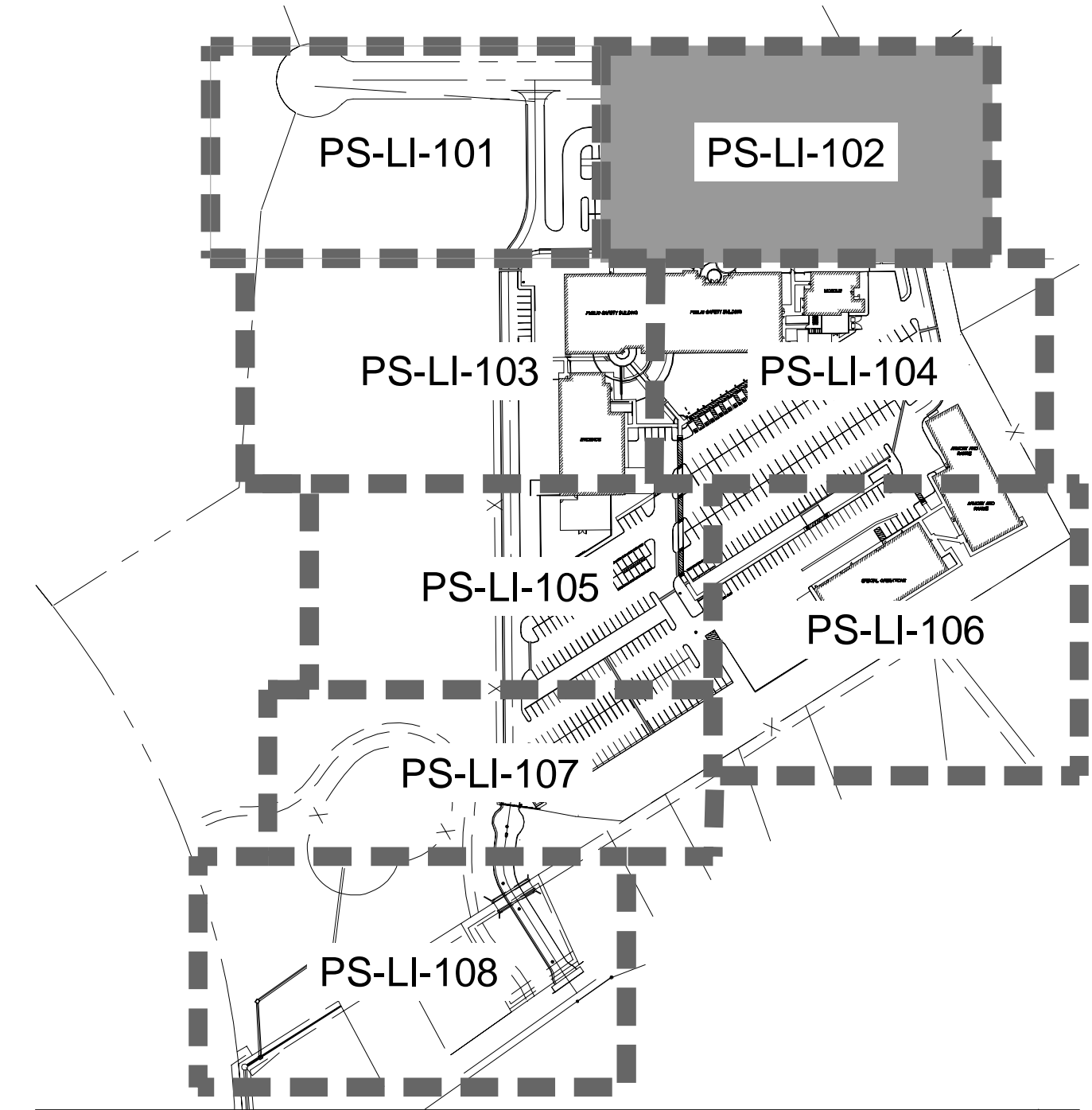
(#)M MAINLINE PIPE SLEEVE QUANTITY  
 (#)L LATERAL PIPE SLEEVE QUANTITY  
 (#)W WIRE/CONDUIT SLEEVE QUANTITY  
 (#)S EMPTY(SPARE) SLEEVE QUANTITY

**VALVE CALLOUT**

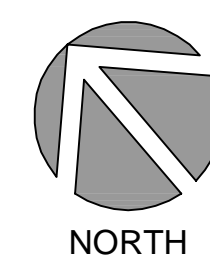
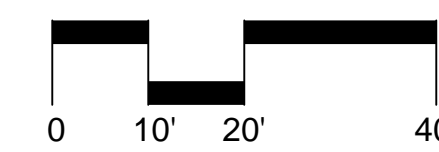
[Symbol]	CONTROLLER STATION NUMBER
[Symbol]	GALLONS PER MINUTE
[Symbol]	VALVE SIZE
[Symbol]	DRIP - ON-GRADE DRIP GRID
[Symbol]	BUB - BUBBLER SYSTEM AT NEW TREES
[Symbol]	RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

- GENERAL NOTES**
- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
  - REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



Know what's below  
Call before you dig.



**C/S BROWARD builders**

Arrington Watkins Architects

2024 Opportunity Drive, Suite 150  
 Roseville, California 95678  
 Telephone: (916) 338-7707  
 Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

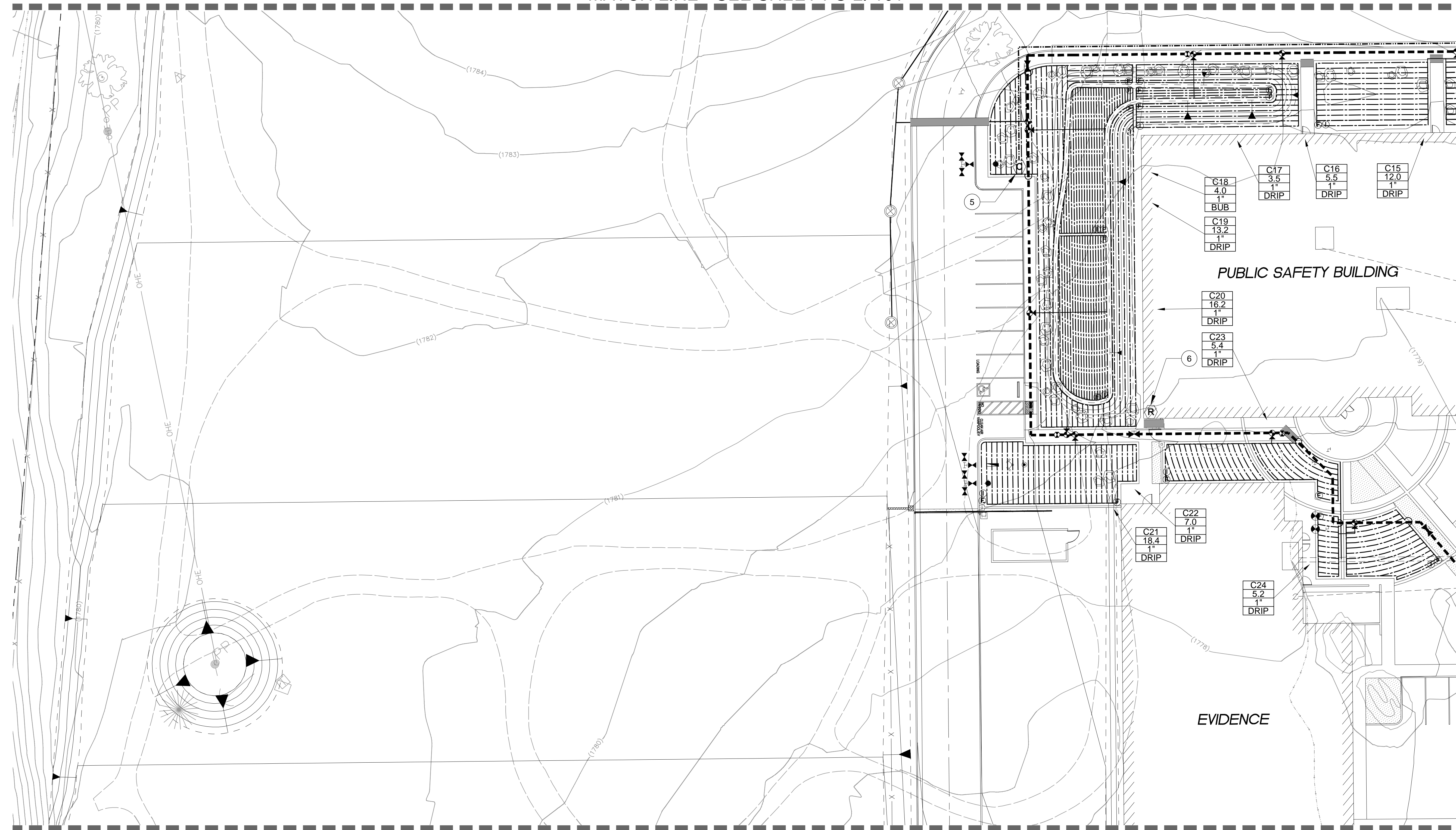
PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JLL  
 DRAWN BY: JJLDV  
 APPROVED BY: RL

SHEET TITLE:  
 LANDSCAPE  
 IRRIGATION PLAN - B

SHEET NUMBER:  
**PS-LI-102**



MATCH LINE - SEE SHEET PS-LI-101



MATCH LINE - SEE SHEET PS-LI-105

LANDSCAPE IRRIGATION KEYED NOTES

- 5. AUTOMATIC IRRIGATION CONTROLLER "C":  
APPROXIMATE LOCATION OF PEDESTAL MOUNTED CONTROLLER. FIELD VERIFY LOCATION OF ELECTRICAL POWER SOURCE AS PER ELECTRICAL DWGS. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL REQUIREMENTS.
- 6. RAIN SHUT-OFF SENSOR:  
MOUNT SENSOR ON BUILDING EAVE IN VANDAL RESISTANT ENCLOSURE. CONTRACTOR SHALL POSITION SENSOR TO PROVIDE OPTIMAL EXPOSURE TO WEATHER ELEMENTS AS PER MANUFACTURER'S RECOMMENDATIONS (FULL SUN AND UNOBSTRUCTED RAINFALL).

MATCH LINE - SEE SHEET PS-LI-104



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

(#)M MAINLINE PIPE SLEEVE QUANTITY  
(#)L LATERAL PIPE SLEEVE QUANTITY  
(#)W WIRE/CONDUIT SLEEVE QUANTITY  
(#)S EMPTY(SPARE) SLEEVE QUANTITY

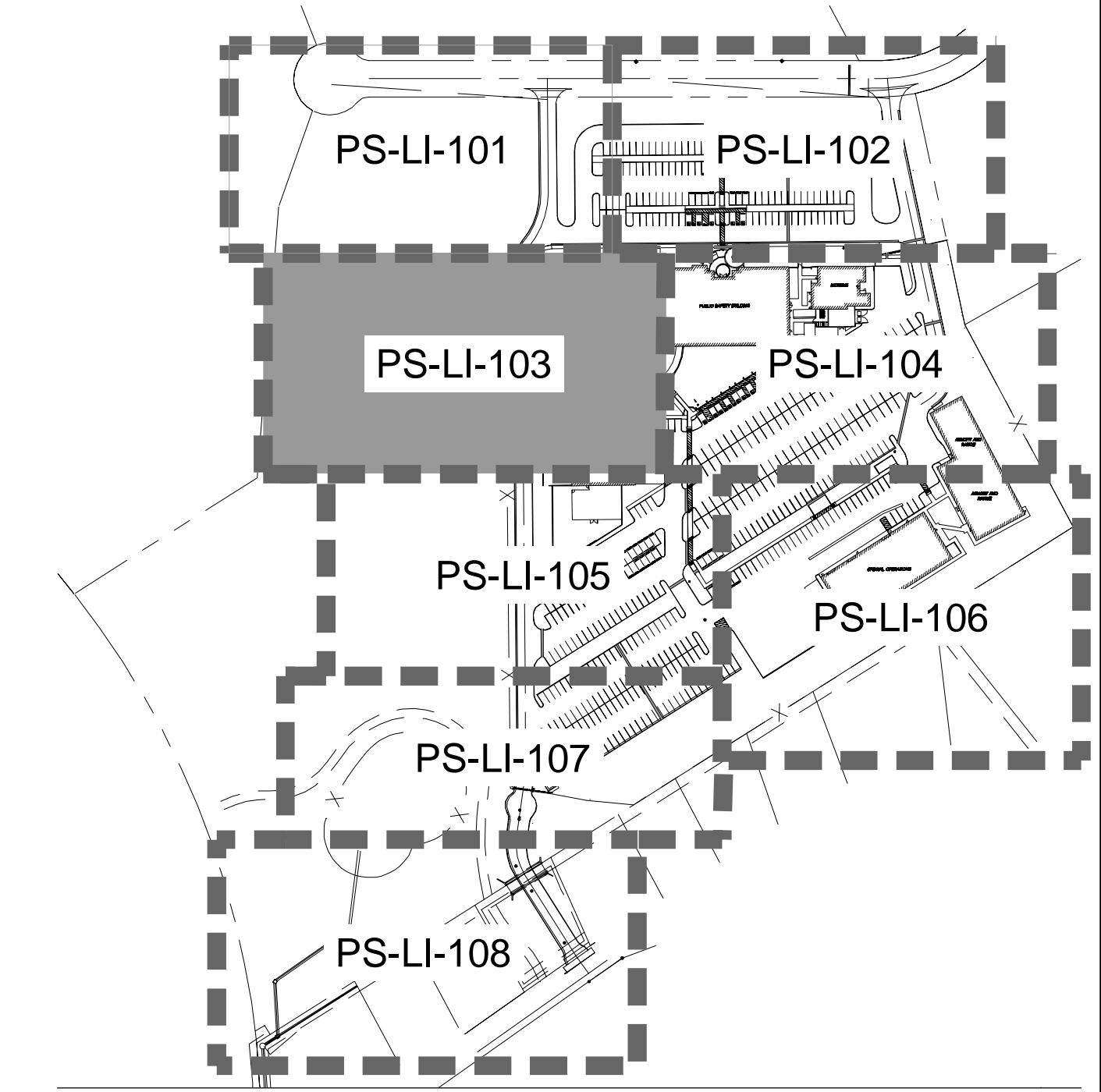
**VALVE CALLOUT**

CONTROLLER STATION NUMBER  
GALLONS PER MINUTE  
VALVE SIZE

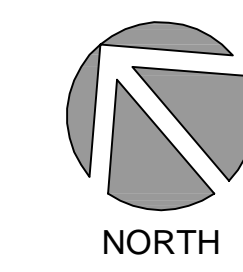
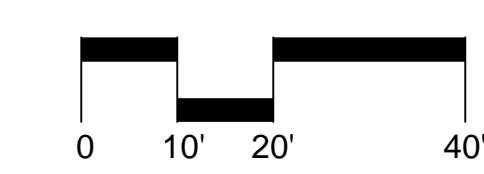
DRIP - ON-GRADE DRIP GRID  
BUB - BUBBLER SYSTEM AT NEW TREES  
RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

- GENERAL NOTES**
- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
  - REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



NO.	REVISION	DATE

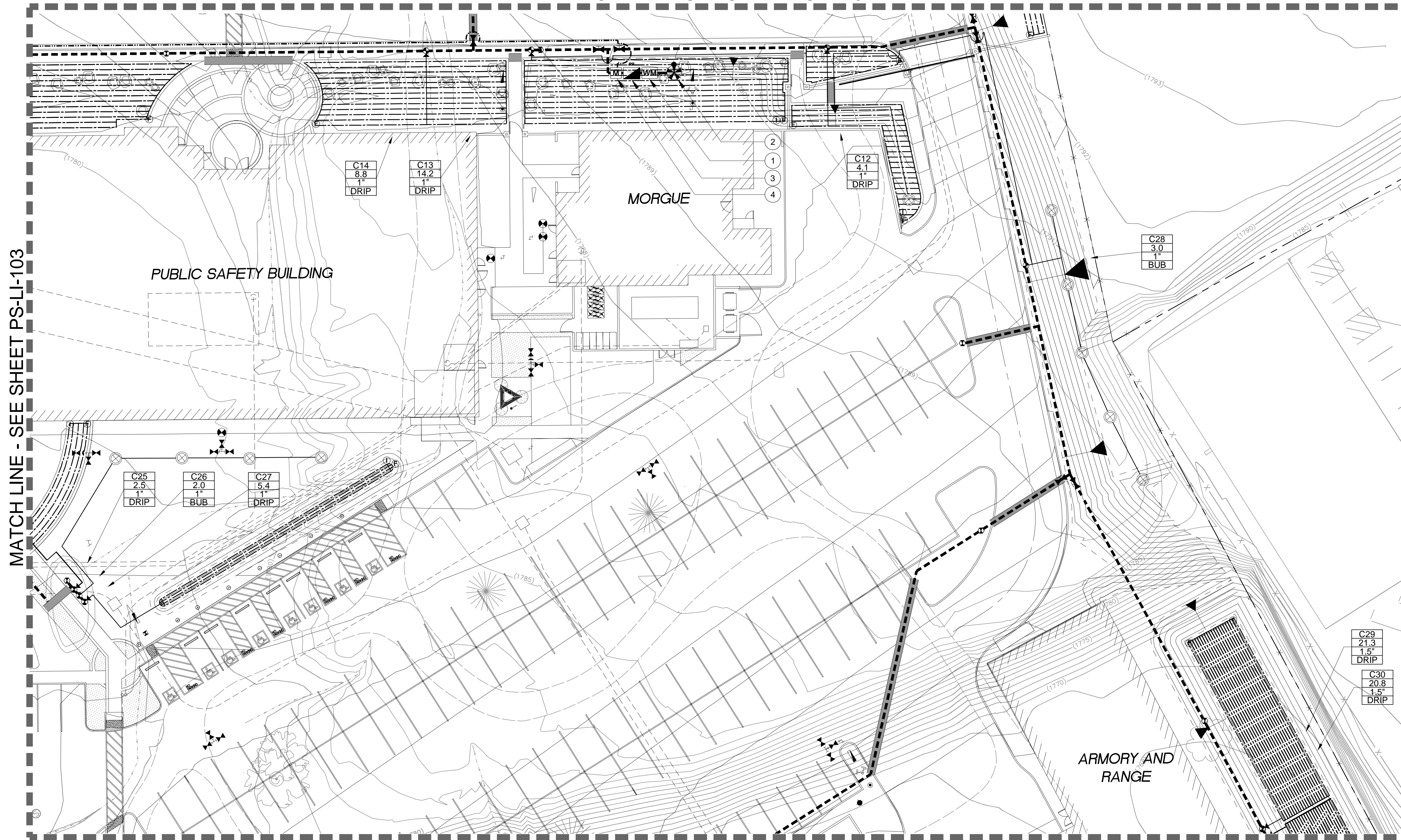
PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JLL  
DRAWN BY: JJLDV  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE IRRIGATION PLAN - C

SHEET NUMBER:  
**PS-LI-103**



MATCH LINE - SEE SHEET PS-LI-102



MATCH LINE - SEE SHEET PS-LI-103

MATCH LINE - SEE SHEET PS-LI-106

**LANDSCAPE IRRIGATION KEYED NOTES**

- ① DEDICATED IRRIGATION WATER METER:  
 SOURCE: DOMESTIC WATER (INSTALL PER EID DETAIL W20A)  
 WATER METER SIZE: 1.5"  
 SERVICE LATERAL SIZE: 2"  
 WATER METER ADDRESS: 200 INDUSTRIAL DR., DIAMOND SPRINGS, CA 95619  
 AVAILABLE STATIC PRESSURE: XXX PSI (CIVIL)  
 REQUIRED DESIGN PRESSURE: 65 PSI  
 PEAK FLOW (MAX. DEMAND): 50 GPM  
 IRRIGATION AREA (SF): X.XXX  
 ANNUAL USAGE (ACRE-FT): X.XX
- ② POINT-OF-CONNECTION:  
 CONTRACTOR SHALL FIELD LOCATE 2" SERVICE LINE STUB OUT AT THIS APPROXIMATE LOCATION. CONNECT TO STUB OUT. EXTEND BRASS OR COPPER MAINLINE TO IRRIGATION METER. INSTALL EQUIPMENT AS SHOWN. WORK SHALL CONFORM TO LOCAL CODES. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR.
- ③ REDUCED PRESSURE BACKFLOW PREVENTER:  
 INSTALL PER EL DORADO IRRIGATION DISTRICT STANDARD DETAIL NUMBER W22.
- ④ HYDROMETER (NORMALLY CLOSED):  
 COMBINATION MASTER VALVE, FLOW METER AND PRESSURE REGULATOR. SET DISCHARGE PRESSURE TO 65 PSI.



PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619



**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY(SPARE) SLEEVE QUANTITY

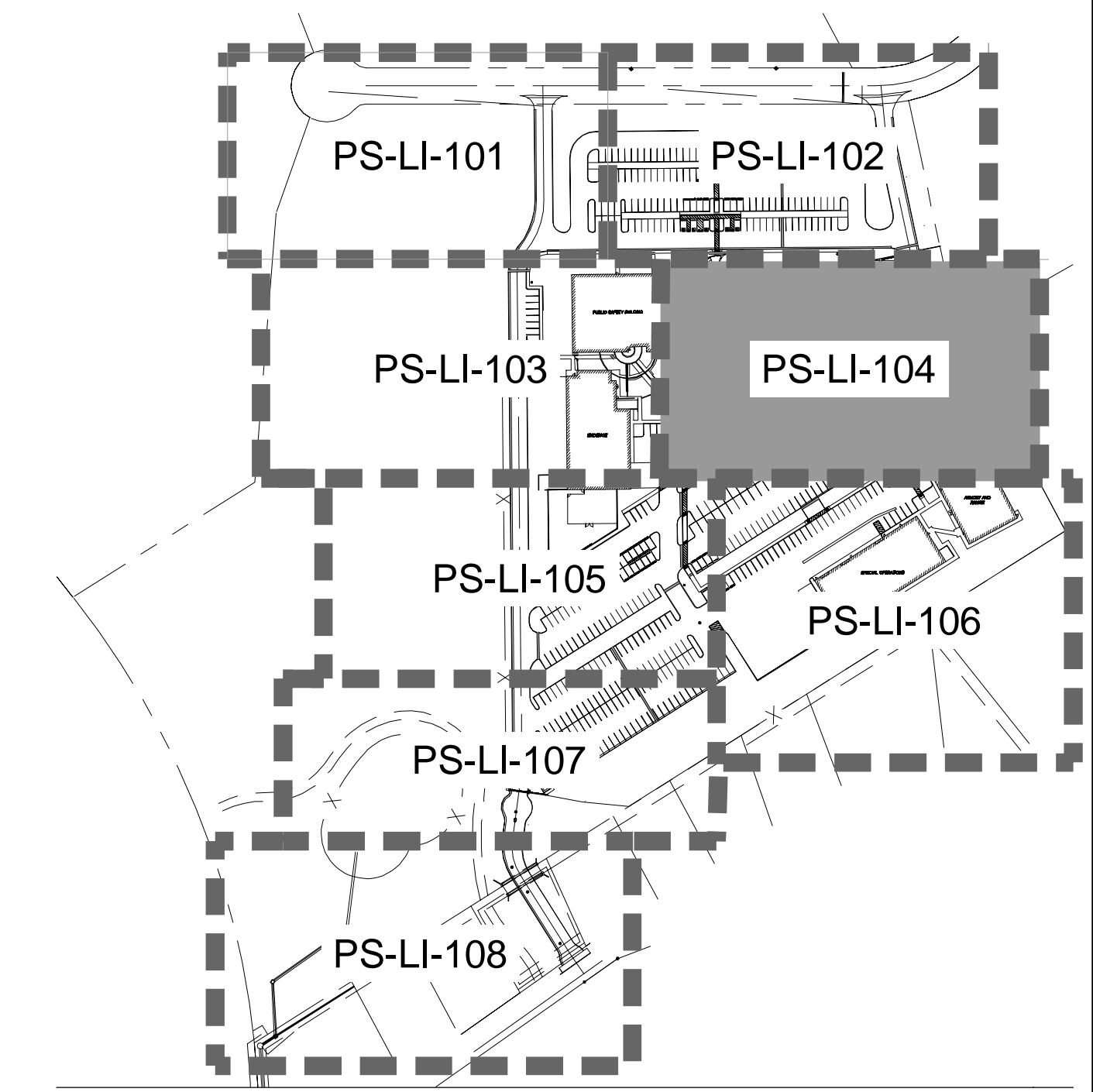
**VALVE CALLOUT**

[Symbol]	CONTROLLER STATION NUMBER
[Symbol]	GALLONS PER MINUTE
[Symbol]	VALVE SIZE

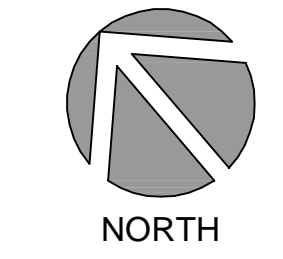
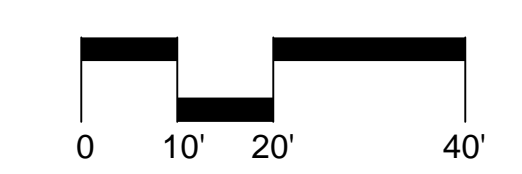
[Symbol] DRIP - ON-GRADE DRIP GRID  
 [Symbol] BUB - BUBBLER SYSTEM AT NEW TREES  
 [Symbol] RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

- GENERAL NOTES**
1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
  2. REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
  3. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



NO.	REVISION	DATE

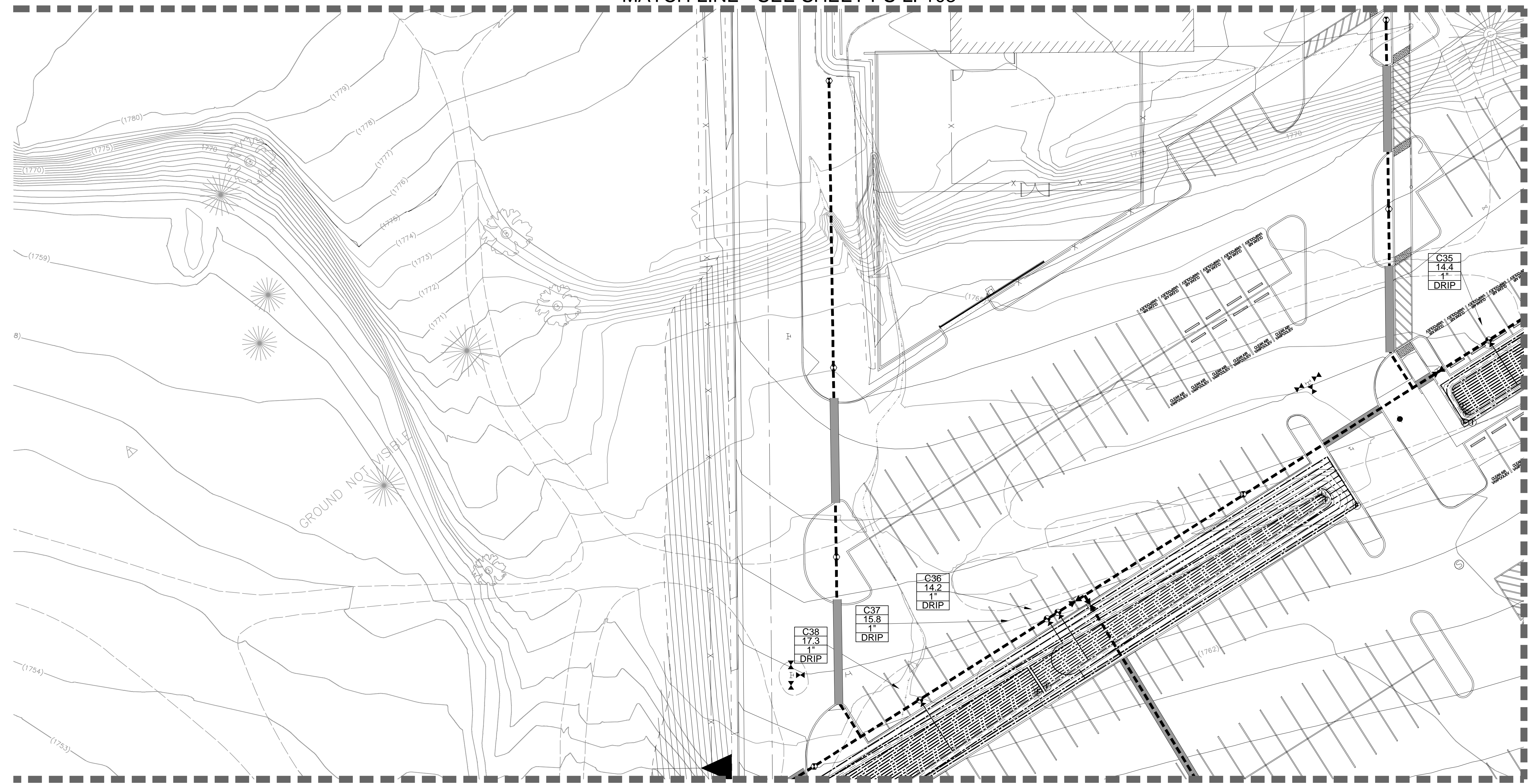
PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JLL  
 DRAWN BY: JLL/DV  
 APPROVED BY: RL

**SHEET TITLE:**  
 LANDSCAPE IRRIGATION PLAN - D

**SHEET NUMBER:**  
**PS-LI-104**



MATCH LINE - SEE SHEET PS-LI-103



MATCH LINE - SEE SHEET PS-LI-107

MATCH LINE - SEE SHEET PS-LI-106

**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY (SPARE) SLEEVE QUANTITY

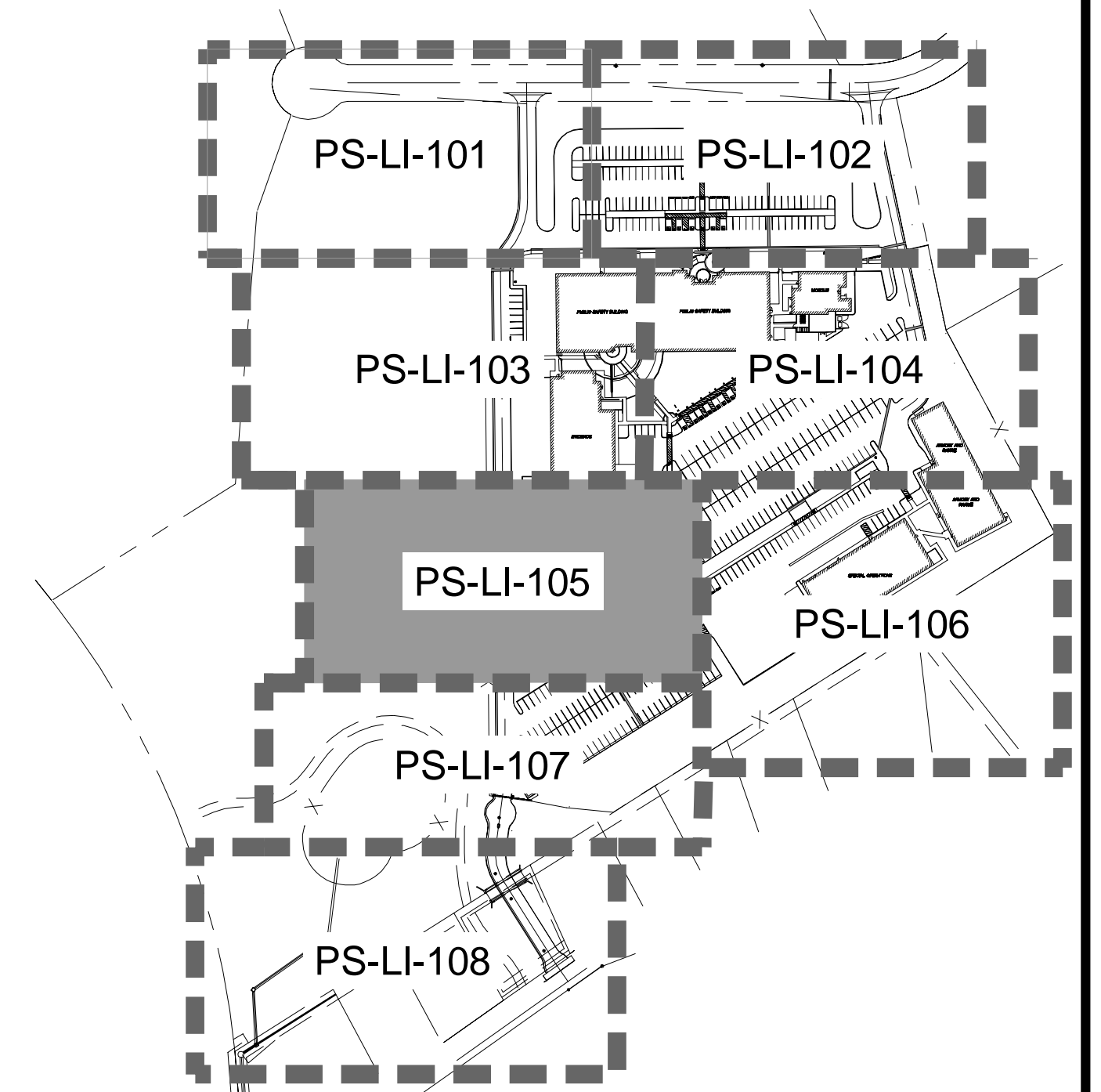
**VALVE CALLOUT**

	CONTROLLER STATION NUMBER
	GALLONS PER MINUTE
	VALVE SIZE
	DRIP - ON-GRADE DRIP GRID
	BUB - BUBBLER SYSTEM AT NEW TREES
	RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

**GENERAL NOTES**

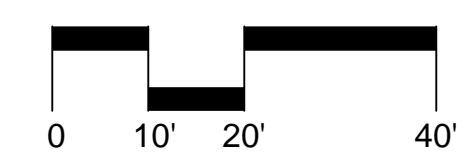
- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
- REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



Know what's below  
Call before you dig.



NORTH



2024 Opportunity Drive, Suite 150  
Roseville, California 95678  
Telephone: (916) 336-7707  
Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

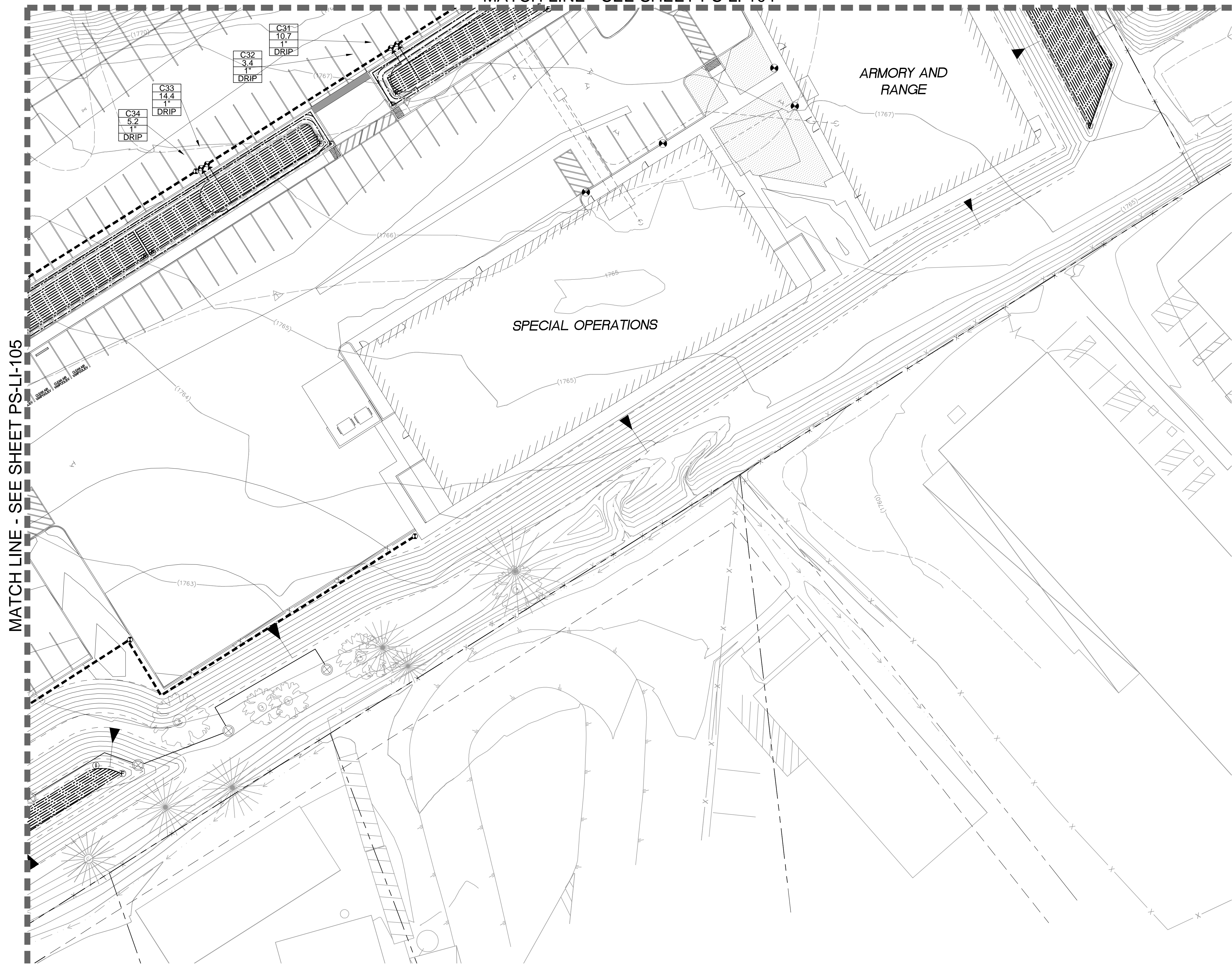
PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JLL  
DRAWN BY: JJUDY  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE IRRIGATION PLAN - E

SHEET NUMBER:  
PS-LI-105



MATCH LINE - SEE SHEET PS-LI-104



MATCH LINE - SEE SHEET PS-LI-105

**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY(SPARE) SLEEVE QUANTITY

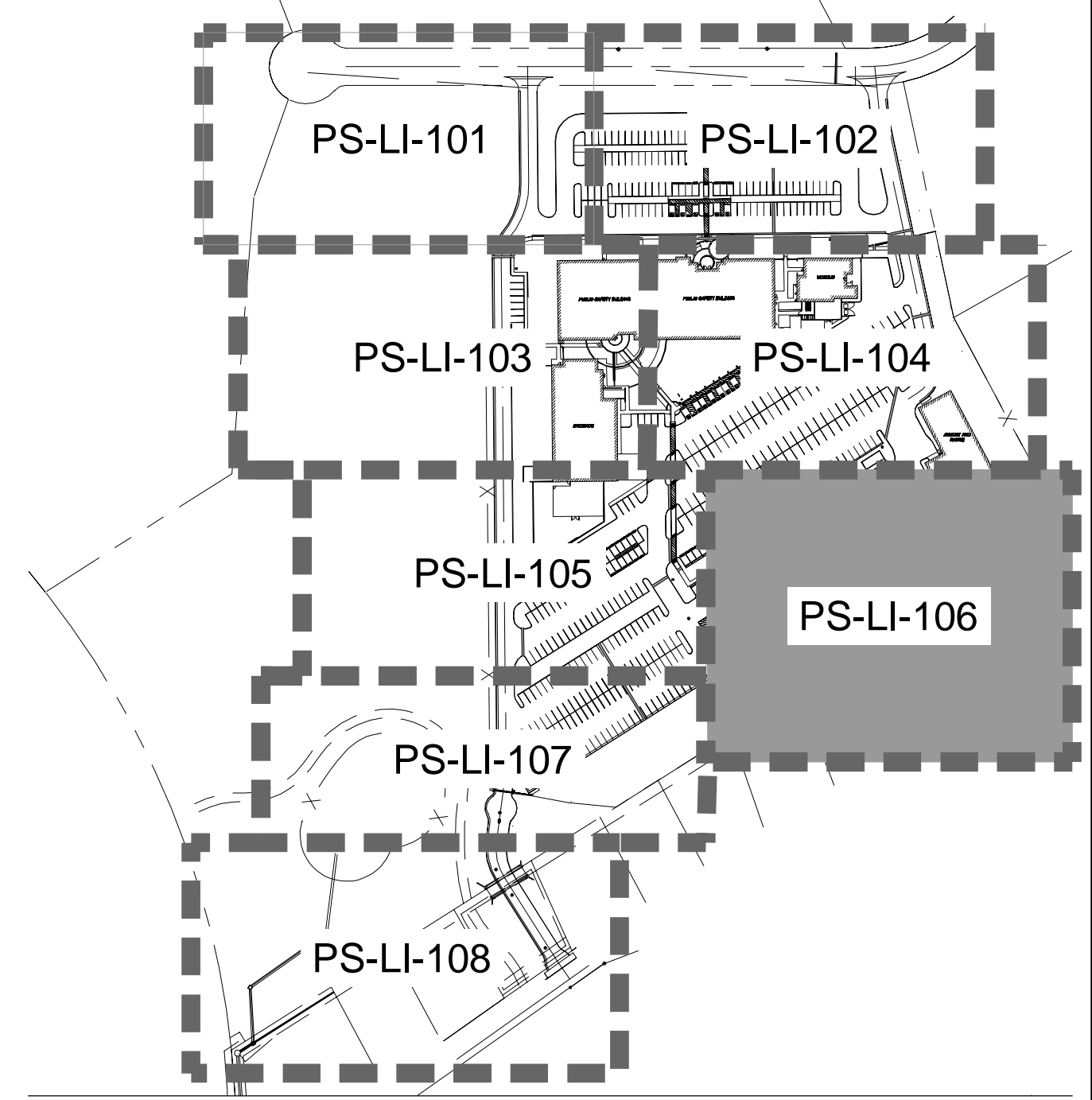
**VALVE CALLOUT**

	CONTROLLER STATION NUMBER
	GALLONS PER MINUTE
	VALVE SIZE

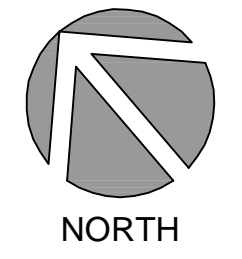
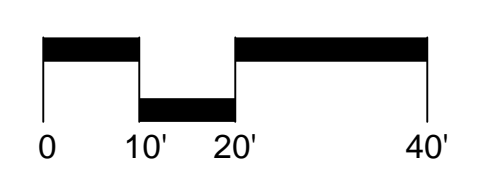
DRIP - ON-GRADE DRIP GRID  
 BUB - BUBBLER SYSTEM AT NEW TREES  
 RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

- GENERAL NOTES**
- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
  - REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



2024 Opportunity Drive, Suite 150  
Roseville, California 95678  
Telephone: (916) 338-7707  
Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



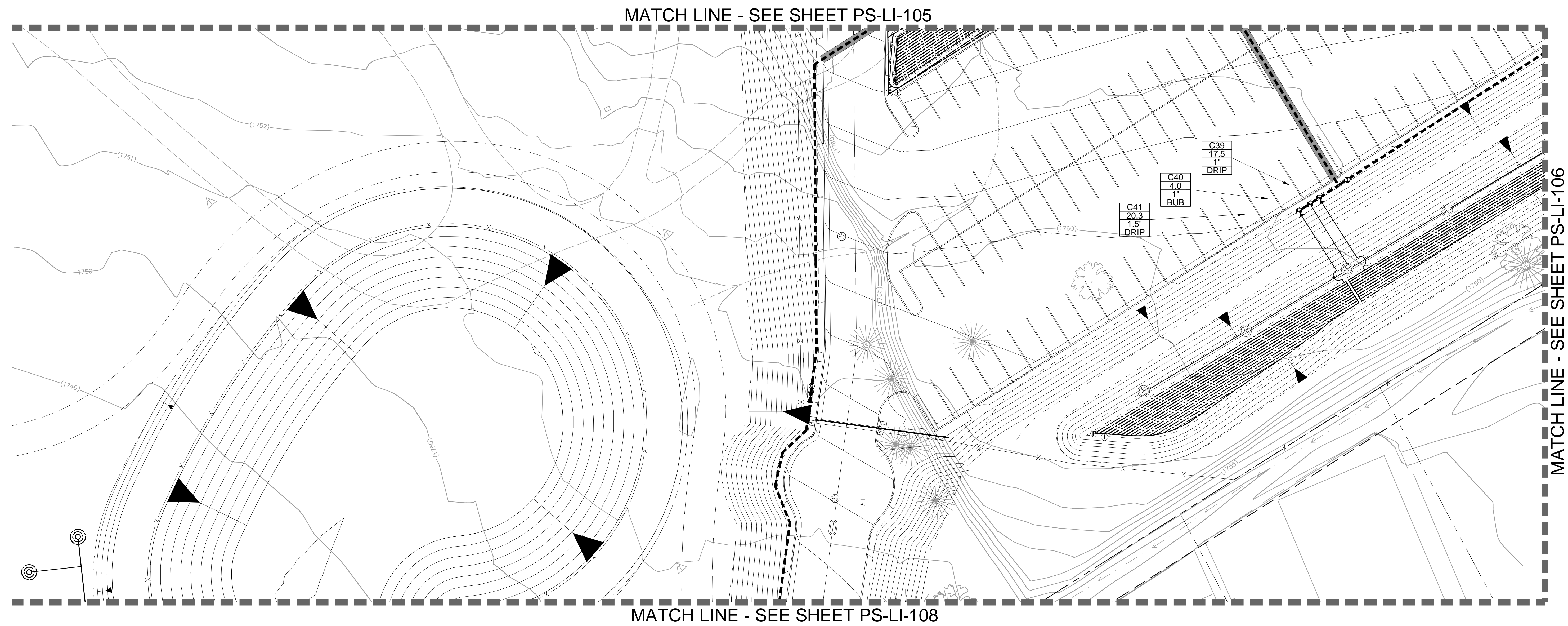
NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JLL  
DRAWN BY: JLL/DV  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE IRRIGATION PLAN - F

SHEET NUMBER:  
**PS-LI-106**





MATCH LINE - SEE SHEET PS-LI-105

MATCH LINE - SEE SHEET PS-LI-106

MATCH LINE - SEE SHEET PS-LI-108

**GENERAL IRRIGATION LEGEND**

SLEEVING: REFER TO IRRIGATION LEGEND ON SHEET LI-001 FOR TYPE AND SIZE.

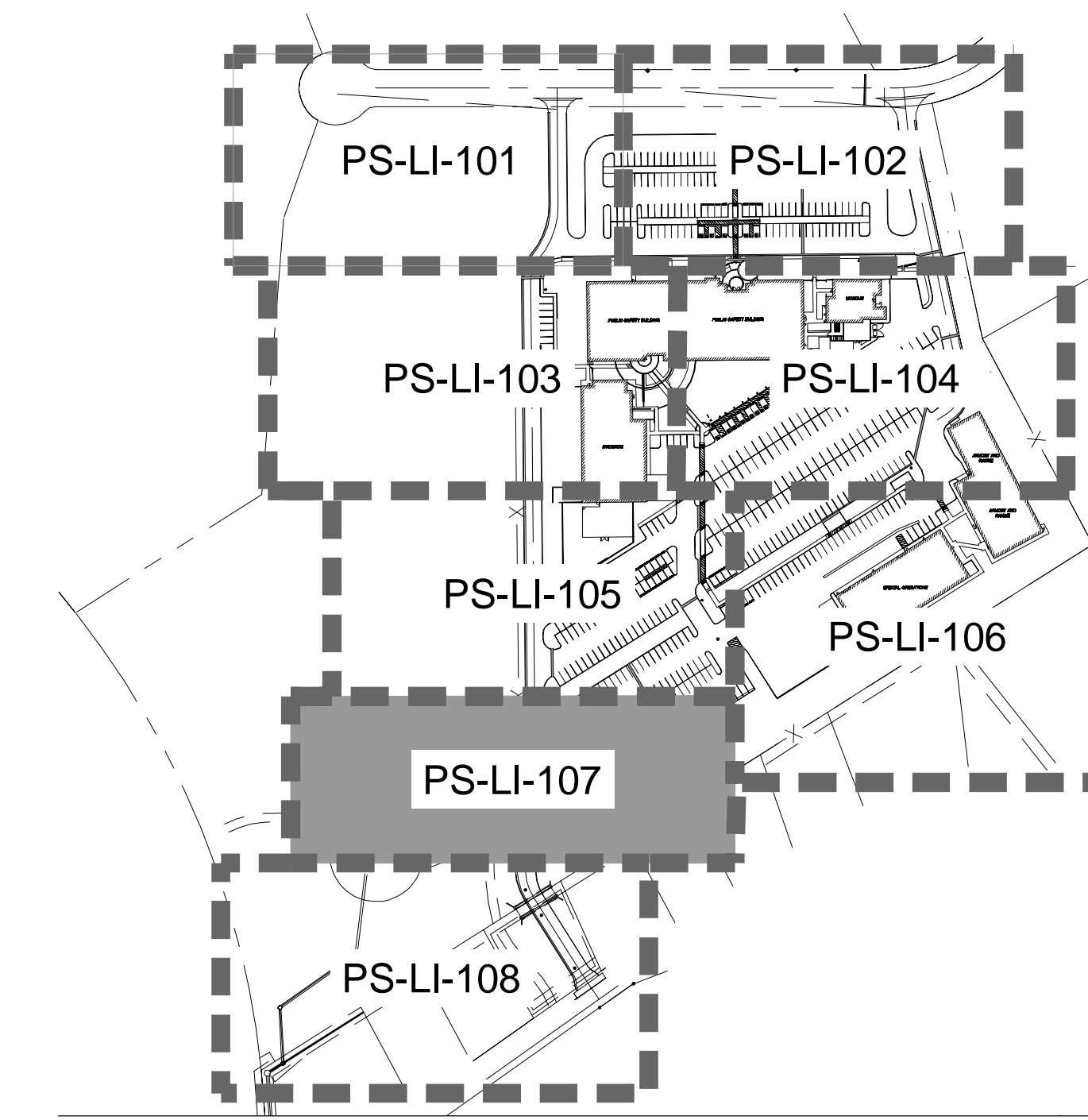
(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY(SPARE) SLEEVE QUANTITY

**VALVE CALLOUT**

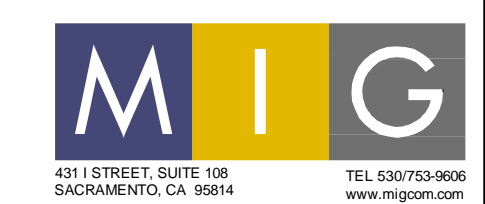
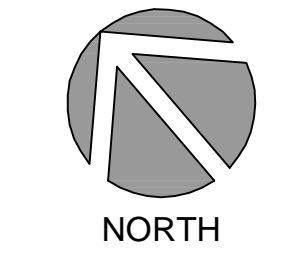
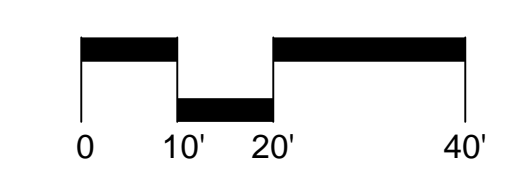
	CONTROLLER STATION NUMBER
	GALLONS PER MINUTE
	VALVE SIZE
	DRIP - ON-GRADE DRIP GRID
	BUB - BUBBLER SYSTEM AT NEW TREES
	RING - ON-GRADE DRIP RINGS AT EXIST. TREES

1-1/2" PIPE SIZING CALLOUT

- GENERAL NOTES**
- REFER TO THE IRRIGATION EQUIPMENT LEGEND ON SHEET LI-001 AND THE GENERAL IRRIGATION NOTES ON SHEET LI-001 FOR ADDITIONAL INFO.
  - REFER TO THE IRRIGATION DETAIL SHEETS LI-501, LI-502, LI-503 AND THE IRRIGATION TECHNICAL SPECIFICATIONS AS PART OF THESE CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.



KEY MAP - NTS



**C/S BROWARD builders**

**Arrington Watkins Architects**

2024 Opportunity Drive, Suite 150  
Roseville, California 95678  
Telephone: (916) 338-7707  
Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJJ  
DRAWN BY: JJLDV  
APPROVED BY: RL

**SHEET TITLE:**  
LANDSCAPE IRRIGATION PLAN - G

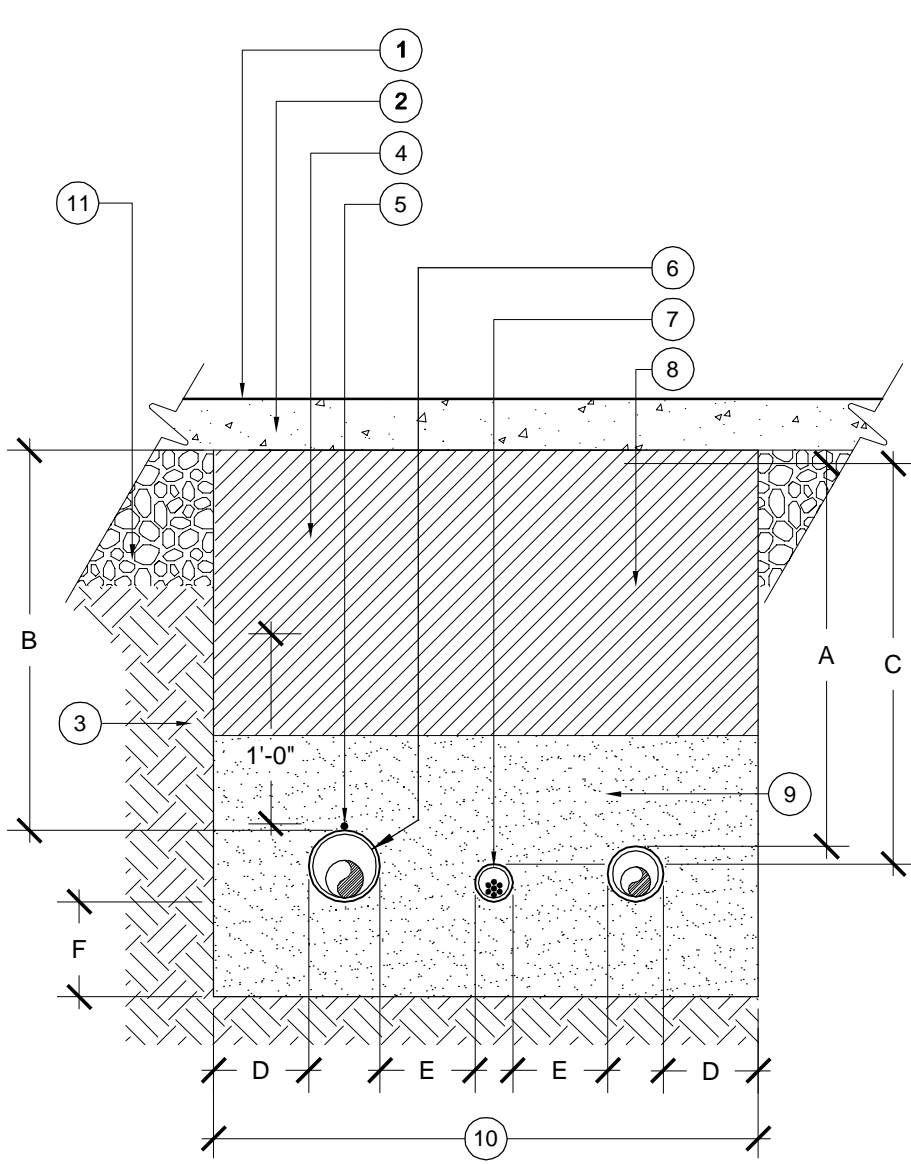
SHEET NUMBER:  
**PS-LI-107**







DEPTH	A	B	C	D	E	F
4' AND LARGER	N/A	30"	N/A	6"	6"	6"
3' AND SMALLER	24"	24"	N/A	6"	6"	6"
2-1/2' AND SMALLER	24"	24"	N/A	6"	6"	6"
CONTROL WIRES	N/A	N/A	24"	6"	6"	6"



- NOTES:**
- DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP MATERIAL.
  - NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
  - IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
  - PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
  - CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.
  - ALL SLEEVES MUST BE A MIN. OF 2 TIMES THE DIAMETER OF THE PIPE WITHIN.
  - ALL SLEEVES MUST EXTEND 12" MIN. DISTANCE PAST CURB OR PAVEMENT EDGES.

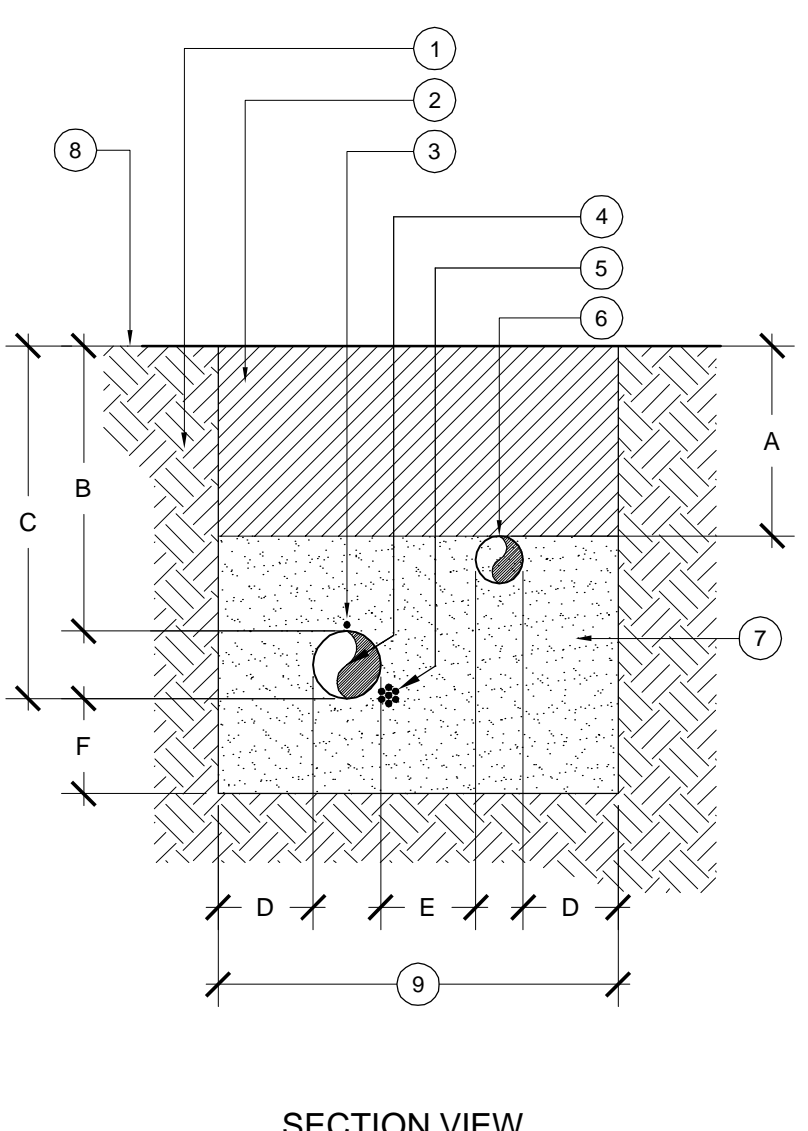
- 11 PAVEMENT SUBGRADE - AS PER ENGINEER'S PLANS
- 10 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.
- 9 INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS.
- 8 NON-PRESSURE LATERAL LINE SLEEVE. SEE SPECS.
- 7 CONTROL WIRE SLEEVE. PER SPECS
- 6 PRESSURE MAINLINE PIPE SLEEVE. PER SPECS.
- 5 COPPER TRACE WIRE. REFER TO SPECS
- 4 COMPACTED BACKFILL OVER INITIAL SAND BEDDING
- 3 UNDISTURBED SOIL
- 2 VEHICULAR OR PEDESTRIAN PAVING
- 1 FINISH GRADE

2 SLEEVING - POTABLE WATER SYSTEMS

Scale: N.T.S.

1 TRENCHING - POTABLE WATER SYSTEMS

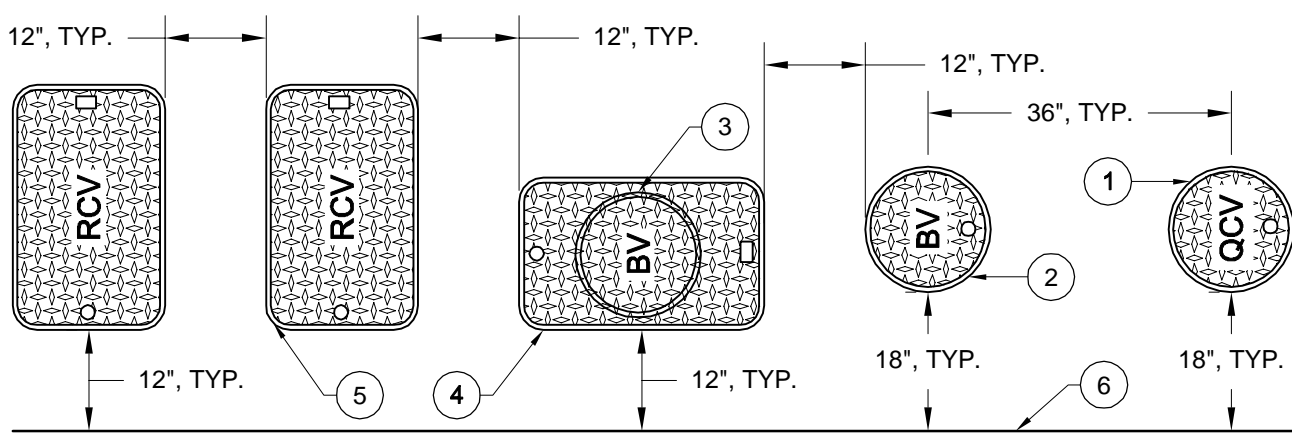
Scale: N.T.S.



- NOTES:**
- DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP MATERIAL.
  - NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
  - IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
  - PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
  - CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.

- 11 PAVEMENT SUBGRADE - AS PER ENGINEER'S PLANS
- 10 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.
- 9 INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS.
- 8 FINISH GRADE
- 7 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.
- 6 NON-PRESSURE LATERAL LINE. PER SPECS.
- 5 CONTROL WIRES, BUNDLED AND TAPED TO SIDE OF MAINLINE AT 10' O.C. (INSTALL WIRES IN CONDUIT FROM CONTROLLER TO MAINLINE).
- 4 PRESSURE MAINLINE PIPE. PER SPECS.
- 3 COPPER TRACE WIRE. REFER TO SPECS.
- 2 COMPACTED BACKFILL OVER INITIAL SAND BEDDING. NO PARTICLES GREATER THAN 1". COMPACT PER SPECS.
- 1 UNDISTURBED SOIL

- NOTES:**
- INSTALL VALVE BOXES IN GROUND COVER/ SHRUB PLANTING AREAS WHENEVER POSSIBLE.
  - ALL VALVE BOXES MUST BE PERPENDICULAR TO EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB AND SET PARALLEL TO EACH OTHER.
  - ALL VALVES MUST BE CENTERED AND INSTALLED PLUMB INSIDE VALVE BOX TO FACILITATE ACCESS AND MAINTENANCE.
  - ALL VALVES MUST BE INSTALLED IN ITS OWN VALVE BOX.
  - REFER TO VALVE ASSEMBLY DETAILS FOR VALVE BOXES FINISH ELEVATIONS.
  - AVOID EXCESSIVE COMPACTING AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
  - INSTALL VALVE BOX EXTENSIONS BY VALVE MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE VALVE ASSEMBLY.
  - LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
  - ALL VALVE BOX LIDS MUST BE LABELED BY HOT IRON BRANDING:
- YS - WYE STRAINER
  - CV - CHECK VALVE
  - MV - MASTER VALVE
  - FS - FLOW SENSOR
  - RVCV - REMOTE CONTROL VALVE
  - QCV - QUICK COUPLER VALVE
  - BV - ISOLATION BALL VALVE
  - IGV - ISOLATION GATE VALVE
  - E - PULL BOX/ SPLICE BOX



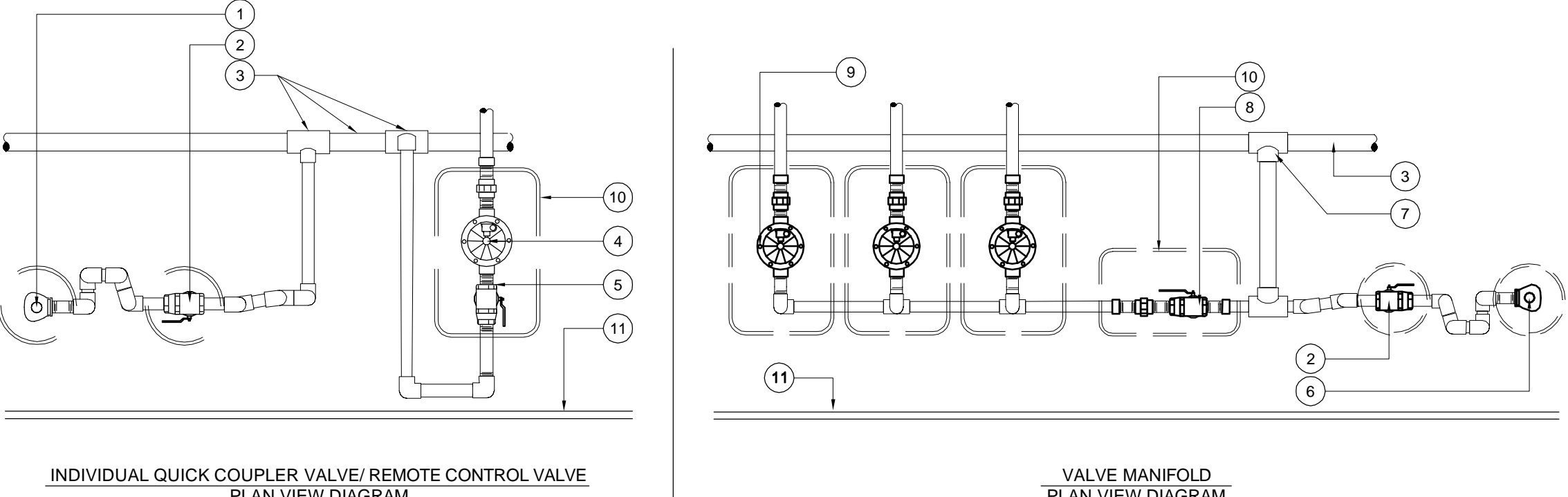
- 1 10" ROUND VALVE BOX PER SPECS FOR QUICK COUPLER VALVE, TYP.
- 2 10" ROUND VALVE BOX PER SPECS FOR QUICK COUPLER ISOLATION BALL VALVE, TYP.
- 3 10" ROUND VALVE BOX PER SPECS FOR MAINLINE ISOLATION GATE VALVE, TYP.
- 4 RECTANGULAR VALVE BOX PER SPECS FOR MAINLINE ISOLATION BALL VALVE, TYP.
- 5 RECTANGULAR VALVE BOX PER SPECS FOR REMOTE CONTROL VALVE ASSEMBLIES, TYP.
- 6 EDGE OF AREA, SIDEWALK, CONCRETE CURB, ETC., TYP.

4 VALVE BOX LAYOUT

Scale: N.T.S.

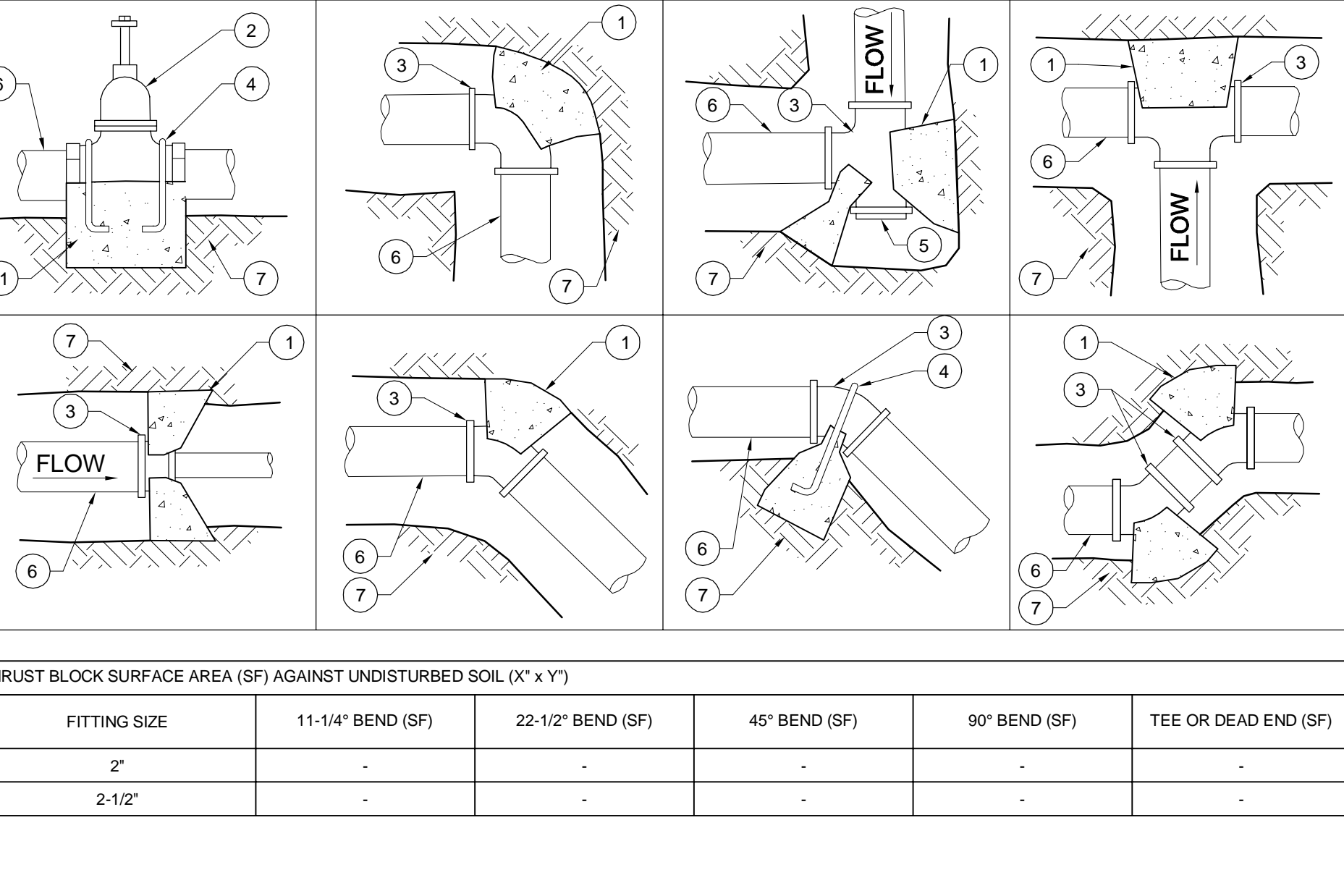
3 MANIFOLD INSTALLATION

Scale: N.T.S.



- NOTES:**
- ALL THREADED CONNECTIONS MUST HAVE TEFLON TAPE (PVC/ BRASS) OR PASTE (BRASS ONLY).
  - REMOTE CONTROL VALVES SHALL BE INSTALLED WITH THE LARGEST VALVE AND GPM FLOW INSTALLED FIRST ON THE MANIFOLD, WITH THE SMALLER VALVES AND CAPACITIES TRANSITIONING FROM THERE.
  - REFER TO DETAIL # FOR ALL ISOLATION BALL VALVE REQUIREMENTS.
  - REFER TO DETAIL # FOR QUICK COUPLER VALVE REQUIREMENTS.
  - REFER TO DETAIL # FOR REMOTE CONTROL VALVE REQUIREMENTS.
  - REFER TO DETAIL # FOR VALVE BOX LAYOUT REQUIREMENTS.
  - REFER TO DETAIL # FOR PRESSURE MAINLINE AND NON-PRESSURE LATERALS PIPE REQUIREMENTS.

- 11 INDIVIDUAL QUICK COUPLER VALVE WHEN VALVE IS NOT GROUPED WITHIN MAINLINE MANIFOLD ASSEMBLY.
- 10 ISOLATION BALL VALVE
- 9 PRESSURE MAINLINE AND TEE FITTING(S)
- 8 INDIVIDUAL REMOTE CONTROL VALVE WITH BALL VALVE WHEN MANIFOLD IS NOT USED
- 7 ISOLATION BALL VALVE WHEN SINGLE REMOTE CONTROL VALVE IS NOT GROUPED WITHIN MAINLINE MANIFOLD ASSEMBLY.
- 6 QUICK COUPLER VALVE
- 5 TEE. MUST BE MAINLINE SIZE.
- 4 ISOLATION GATE VALVE OR BALL VALVE. VALVE MUST BE MAINLINE SIZE.
- 3 MANIFOLD VALVES TOGETHER WHEN WITHIN 20 FEET OF EACH OTHER.
- 2 VALVE BOX, TYP.
- 1 EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB



FITTING SIZE	11-1/4\"/>			
2'				
2-1/2'				

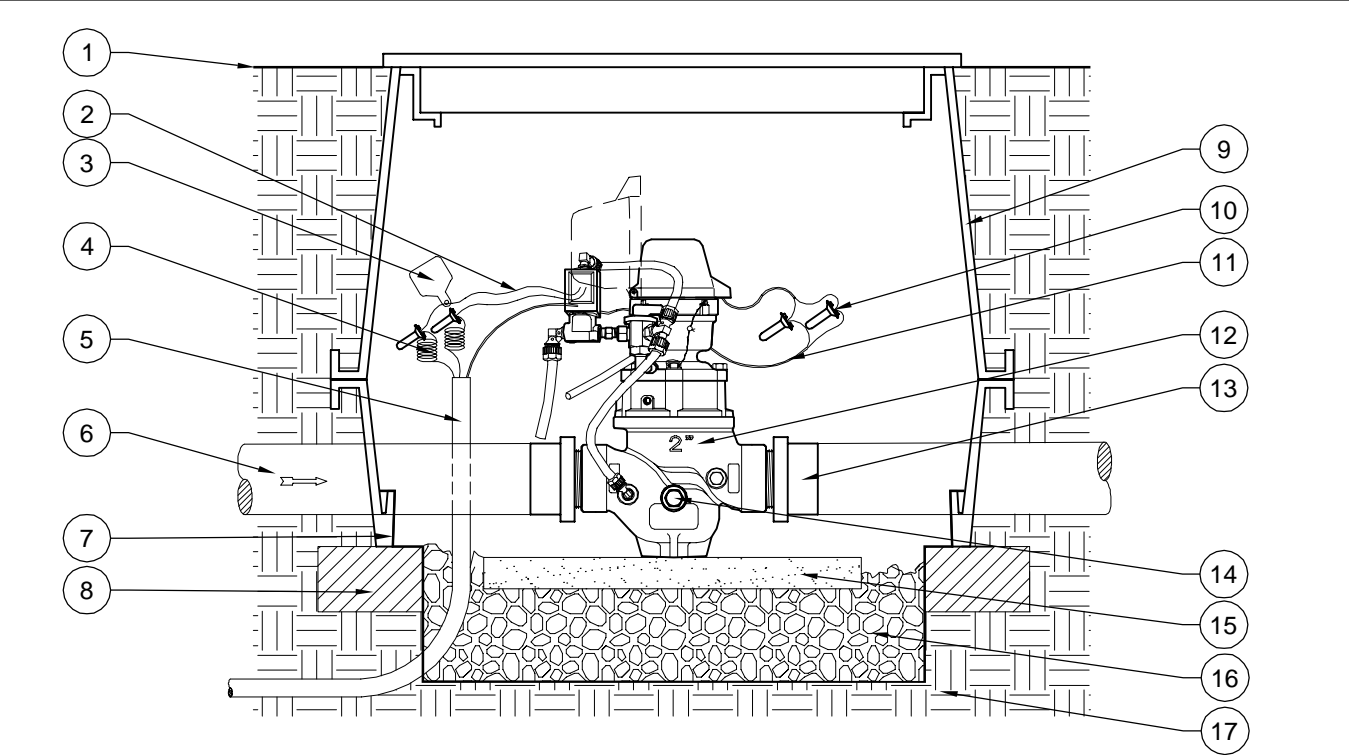
- NOTES:**
- INSTALL AND TEST MAINLINE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
  - USE #4 REBAR WITH MASTIC COATING WHERE PIPE MUST BE ANCHORED TO THRUST BLOCK.
  - CONCRETE THRUST BLOCKING, CAST-IN-PLACE, TO EXTEND FROM BELLS OF FITTINGS TO UNDISTURBED SOIL AND ENTIRE BEARING AREA MUST BE AGAINST UNDISTURBED SOIL. INSTALL THRUST BLOCK WITH A MINIMUM THICKNESS FROM THE PIPE TO THE UNDISTURBED SOIL TWO TIMES THE DIAMETER OF THE PIPE.
  - THRUST BLOCK SHALL BE FORMED ON THE SIDES TO ESTABLISH A DEFINITE SHAPE AND LIMIT ON HEIGHT AND WIDTH SUBJECT TO APPROVAL BY UNIVERSITY'S REPRESENTATIVE BEFORE ORDERING CONCRETE.
  - THRUST BLOCK SIZING ASSUMES TEST PRESSURE OF 200 PSI, A MAXIMUM VELOCITY OF 5 FPS, AND A HORIZ. SOIL BEARING CAPACITY OF 1000 LBS/SQUARE FOOT.
  - SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.
  - PROVISIONS SHALL BE MADE TO INSURE THAT PIPE JOINTS, FITTINGS AND VALVES ARE NOT COVERED UNNECESSARILY.

7 THRUST BLOCKS FOR PLASTIC PIPE (2\"/>

Scale: N.T.S.

6 HYDROMETER (COMBINATION MASTER VALVE, FLOW SENSOR)

Scale: N.T.S.



- NOTES:**
- NO STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF HYDROMETER IS REQUIRED.
  - ALL THREADED CONNECTIONS SHALL RECEIVE TEFLON TAPE PER TAP MANUFACTURER'S RECOMMENDATIONS.

- LEGEND**
- 1 FINISH GRADE.
  - 2 MASTER VALVE WIRES FROM SOLENOID (INCLUDED)
  - 3 VALVE I.D. TAG WITH "MV-FS" PRINTED ON IT.
  - 4 PAIR OF WIRES, COLOR CODED DIFFERENT THAN OTHER VALVES. REFER TO CONTROLLER SPECS.
  - 5 1 1/2" SCH 40 CONDUIT FROM CONTROLLER PER SPECS. PULL BOXES EVERY 200' AND ON EACH SIDE OF HARDSCAPES AREA.
  - 6 PVC MAINLINE PIPING PER IRRIGATION LEGEND, (PLAN SIZE)
  - 7 FILTER FABRIC PER SPECS.
  - 8 BRICK SUPPORT. (4 TOTAL, 1 @ EA CORNER)
  - 9 JUMBO VALVE BOX WITH EXTENSION(S) PER SPECS. HEAT BRAND "MV-FS" ON LID IN 2" HIGH BLOCK LETTERS.
  - 10 WATERPROOF WIRE CONNECTORS (PER SPECS).
  - 11 SHIELDED FLOW SENSOR WIRES TO CONTROLLER (PER SPECS).
  - 12 HYDROMETER. REFER TO LEGEND FOR MANUFACTURER/ MODEL NUMBER.
  - 13 SCH.80 PVC MIPT ADAPTOR SIZE PER VALVE AND MAINLINE PIPING (2 REQUIRED)
  - 14 DRAINAGE NUT FOR WINTERIZATION (INCLUDED).
  - 15 CONCRETE PAVER SUPPORT BLOCK.
  - 16 COMPACTED 3/4\"/>

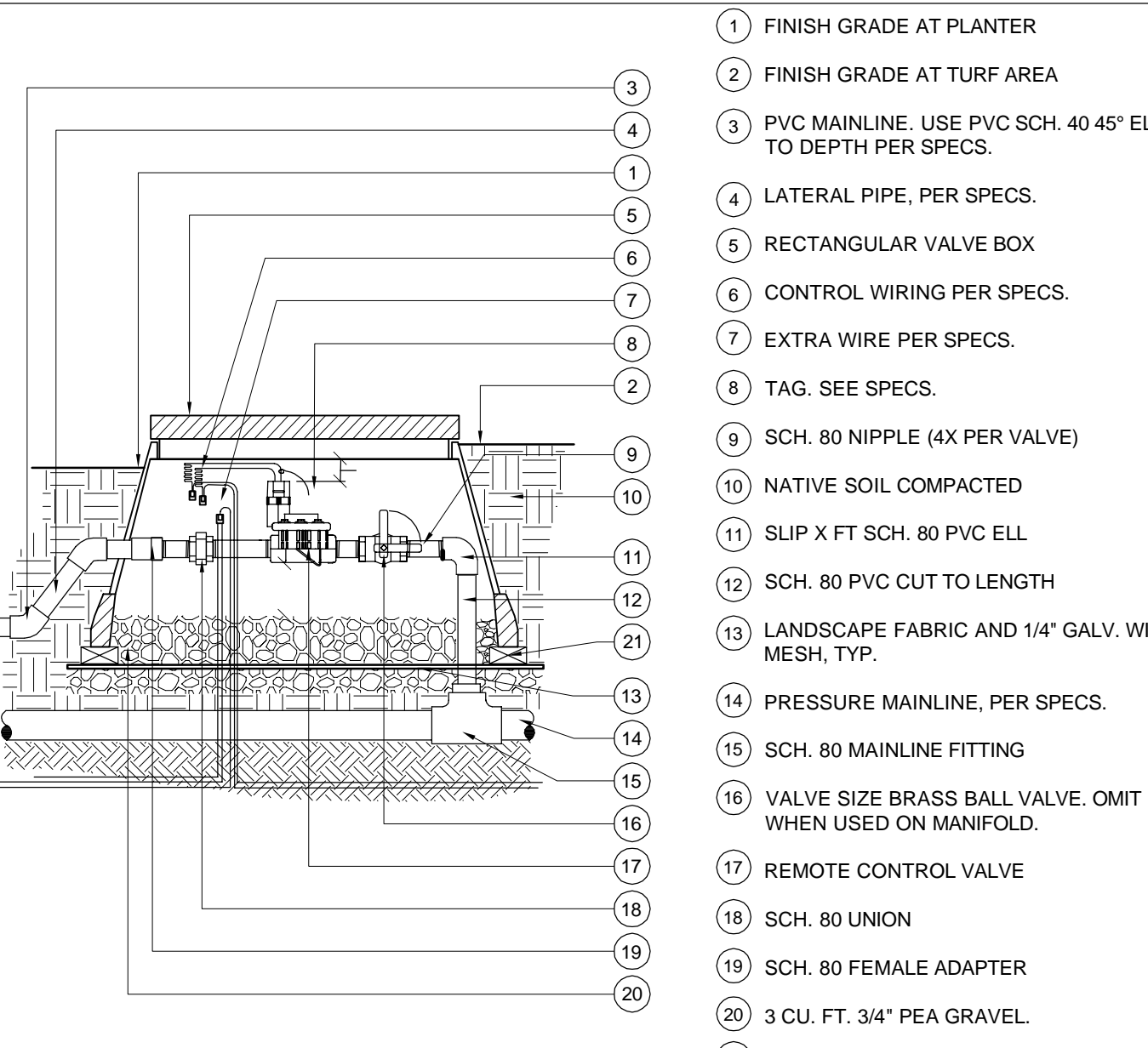
- 1 FINISH GRADE
- 2 SET TOP OF BOX ABOVE FINISH GRADE: 1/2\"/>

10 ISOLATION VALVE (2\"/>

Scale: N.T.S.

9 REMOTE CONTROL VALVE

Scale: N.T.S.



- 1 FINISH GRADE AT PLANTER
- 2 FINISH GRADE AT TURF AREA
- 3 PVC MAINLINE. USE PVC SCH. 40 45\"/>

**C/S BROWARD BUILDERS**  
 Telephone: (916) 338-7707  
 Fax: (866) 510-3055

**ARRINGTON WATKINS ARCHITECTS**  
 2024 Opportunity Drive, Suite 150  
 Roseville, California 95678  
 Telephone: (916) 338-7707  
 Fax: (866) 510-3055

**EL DORADO COUNTY CALIFORNIA**

NO.	REVISION	DATE

PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JLL  
 DRAWN BY: JLL/DV  
 APPROVED BY: RL

**SHEET TITLE:**  
 LANDSCAPE IRRIGATION CONSTRUCTION DETAILS - 01

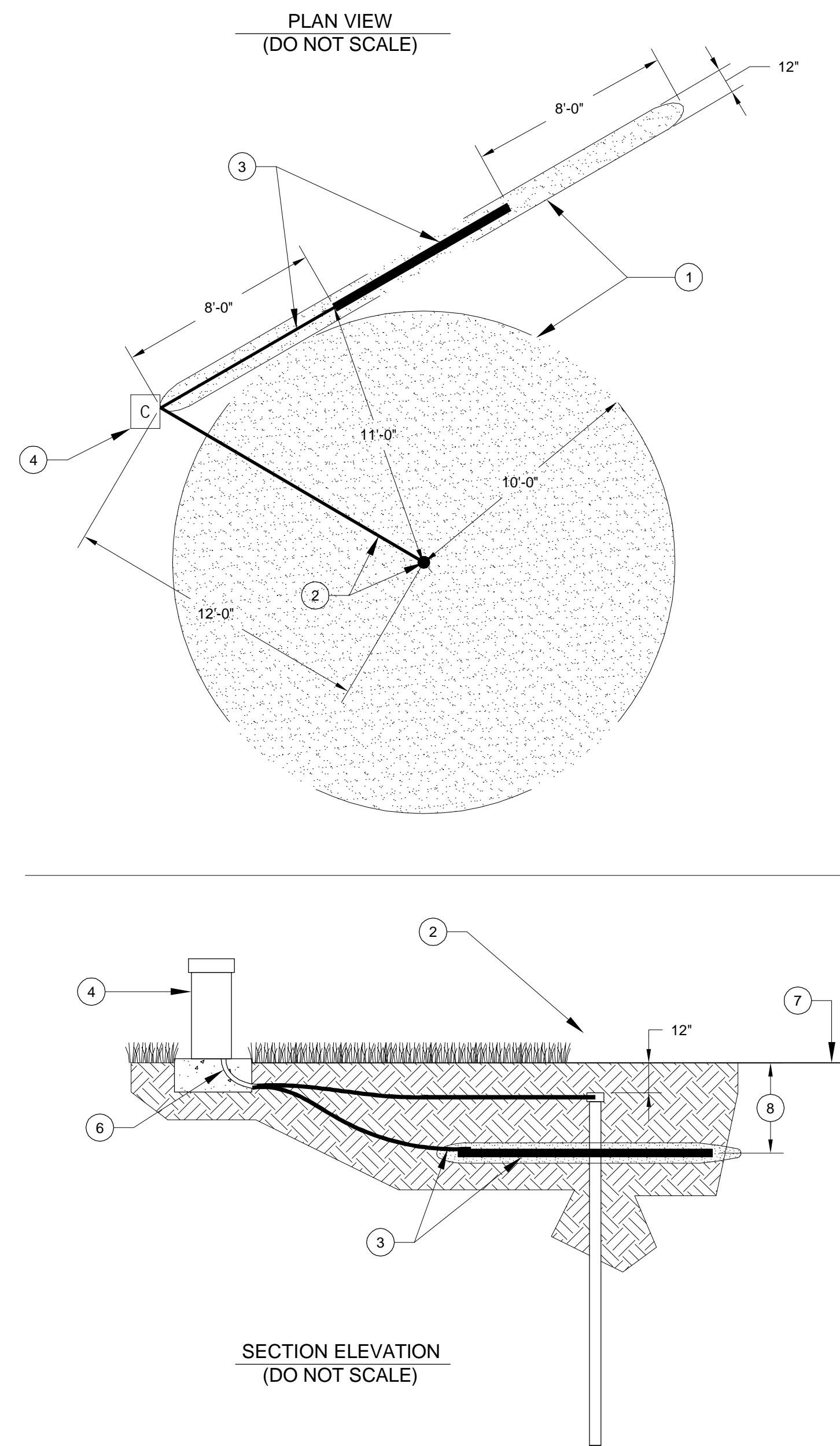
**SHEET NUMBER:**  
 PS-LI-501

**M I G**  
 601 STREET, SUITE 100  
 SACRAMENTO, CA 95811  
 TEL: 530-750-9000  
 www.mig.com





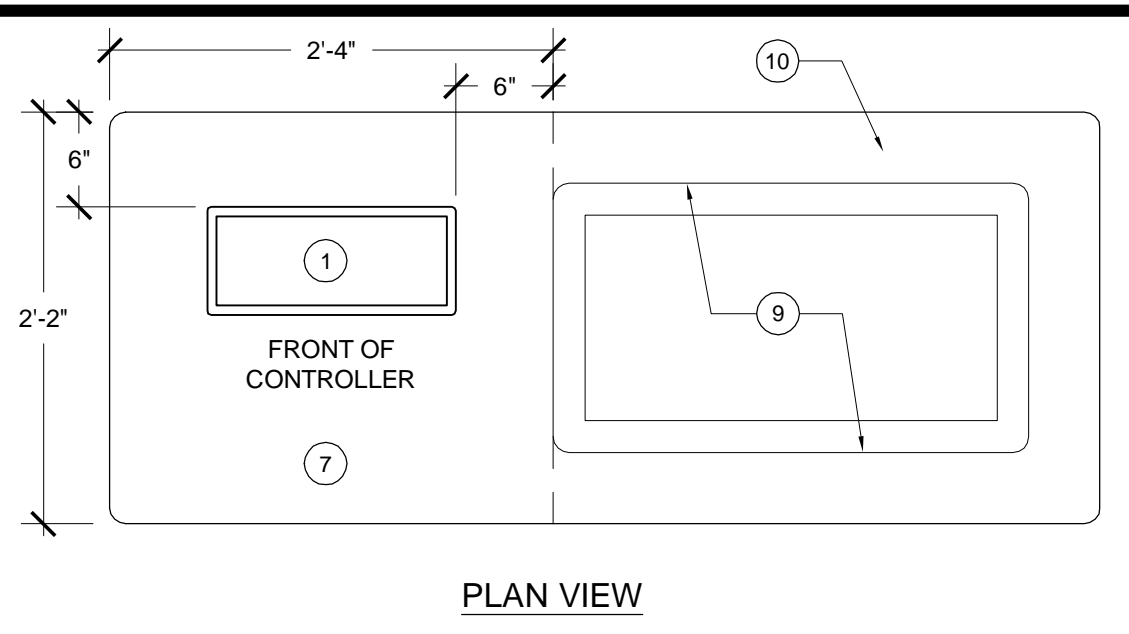




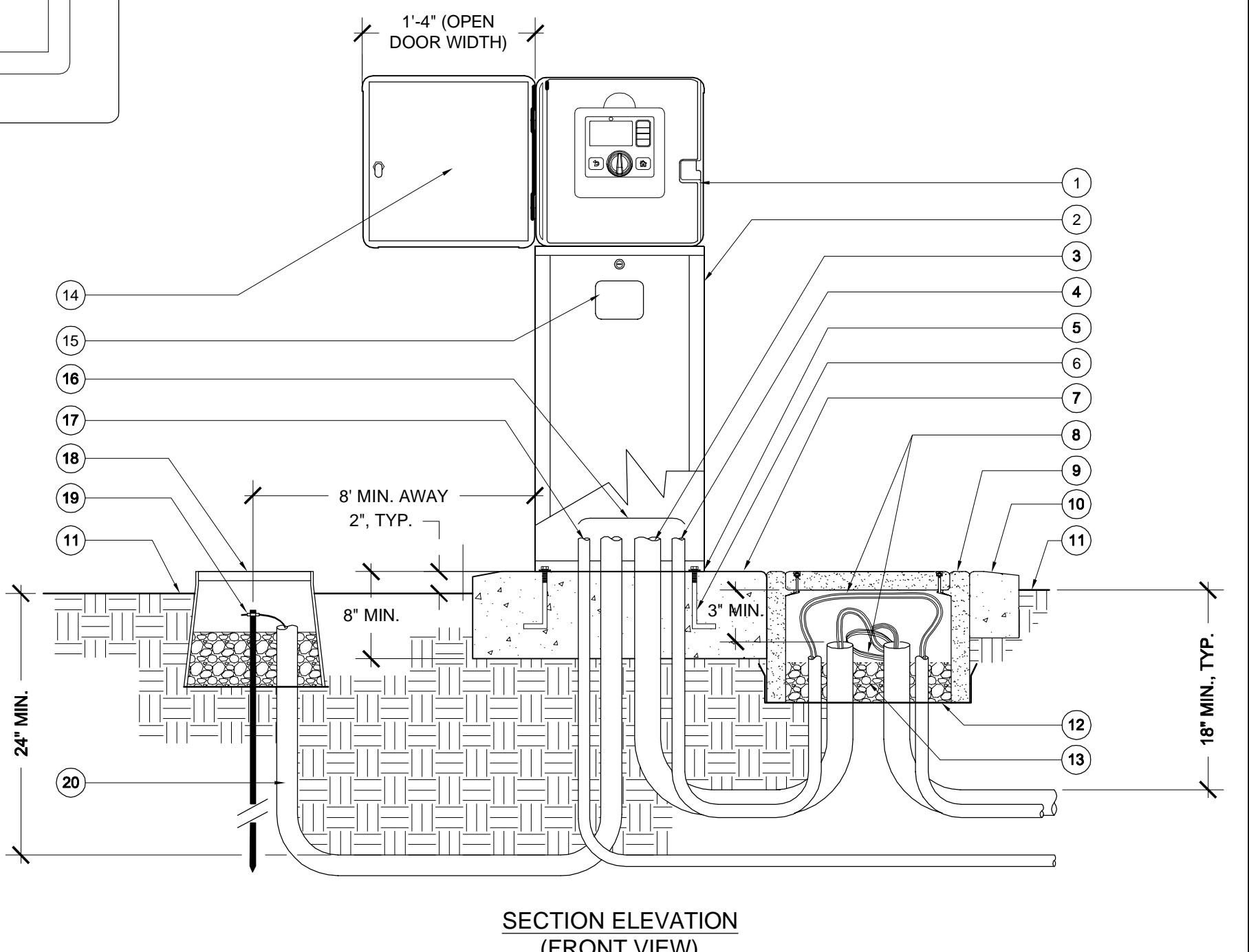
- 1 ELECTRODE SPHERE OF INFLUENCE BOUNDARIES.
- 2 GROUND ROD WITH PRE-WELDED INSULATED CONDUCTOR (3/8" DIA. X 17' LONG) DRIVE INTO GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45°. USE WHEN POSSIBLE TO DRIVE STAKE INTO GROUND.
- 3 COPPER GROUND PLATE WITH PRE-WELDED INSULATED CONDUCTOR (SIZE: 4" X 96" X 0.0625"). USE WHEN IMPOSSIBLE TO DRIVE STAKE INTO GROUND OR WHEN DIRECTED BY CONTROLLER MANUFACTURER'S.
- 4 AUTOMATIC IRRIGATION CONTROLLER. REFER TO IRRIGATION LEGEND AND DWGS.
- 5 PVC SWEEP ELL, 1-1/2" MIN.
- 6 EARTH CONTACT MATERIAL.
- 7 FINISH GRADE.
- 8 30" MINIMUM OR BELOW FROST LINE, WHICHEVER IS DEEPER.

- NOTES:**
- THE GROUND GRID COMPONENTS MUST BE INSTALLED WITH THE DIMENSIONAL RELATIONSHIP SHOWN IN THE DETAIL. DO NOT INSTALL ANY OTHER WIRES, CABLES, AND ELECTRONIC EQUIPMENT WITHIN THE SPHERE OF INFLUENCE OF THE GROUNDING ELECTRODES.
  - INSTALLATION OF ALL COMPONENTS AND MUST MEET OR EXCEED THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS (ASIC) EARTH GROUNDING GUIDELINES AND BE AS APPROVED BY AUTOMATIC IRRIGATION CONTROLLER MANUFACTURER'S.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONNECT THE CONTROLLER TO EARTH GROUND IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NEC).
  - WHEN UTILIZING THE COPPER GROUND PLATE METHOD, THE CONTRACTOR SHALL UTILIZE A MINIMUM OF 100 LBS OF EARTH CONTACT MATERIAL SPREAD MATERIAL SO THAT IT SURROUNDS THE COPPER PLAT EVENLY ALONG ITS LENGTH WITHIN A 6" WIDE TRENCH.
  - SALTS, FERTILIZERS, BENTONITE CLAY, CEMENT, COKE, CARBON, AND OTHER CHEMICALS ARE NOT BE USED TO IMPROVED SOIL CONDUCTIVITY.
  - ALL GROUNDING ELECTRODES SHALL BE UL LISTED OR MANUFACTURED TO MEET NEC CODE.
  - NO SPLICES ALLOWED UNLESS USING EXOTHERMIC WELDING PROCESS AND APPROVED BY CITY'S REPRESENTATIVE.
  - INSTALL ALL GROUNDING CIRCUIT COMPONENTS IN STRAIGHT LINES. WHEN NECESSARY TO MAKE A TURN OR BEND, IT SHALL BE DONE IN A SWEEPING CURVE WITH A MINIMUM RADIUS OF 8" AND A MINIMUM INCLUDED ANGLE OF 90°.
  - THE EARTH-TO-GROUND RESISTANCE IS TO BE MEASURED USING A MEGGER OR OTHER SIMILAR INSTRUMENT. AND THE READING IS TO BE NO MORE THAN 10 OHMS. IF THE RESISTANCE IS MORE THAN 10 OHMS, ADDITIONAL GROUND PLATES AND EARTH CONTACT MATERIAL ARE TO BE INSTALLED USING ASIC GUIDELINES.
  - IT IS REQUIRED THAT THE SOIL SURROUNDING COPPER ELECTRODES WITHIN THE SPHERE OF INFLUENCE BE KEPT AT A MINIMUM MOISTURE LEVEL OF 15% (BY VOLUME) AT ALL TIMES.
  - ALL GROUNDING COMPONENTS MUST BE CONNECTED TO THE EQUIPMENT BEFORE ANY OTHER CONNECTION IS MADE.

2 GROUNDING ROD/PLATE



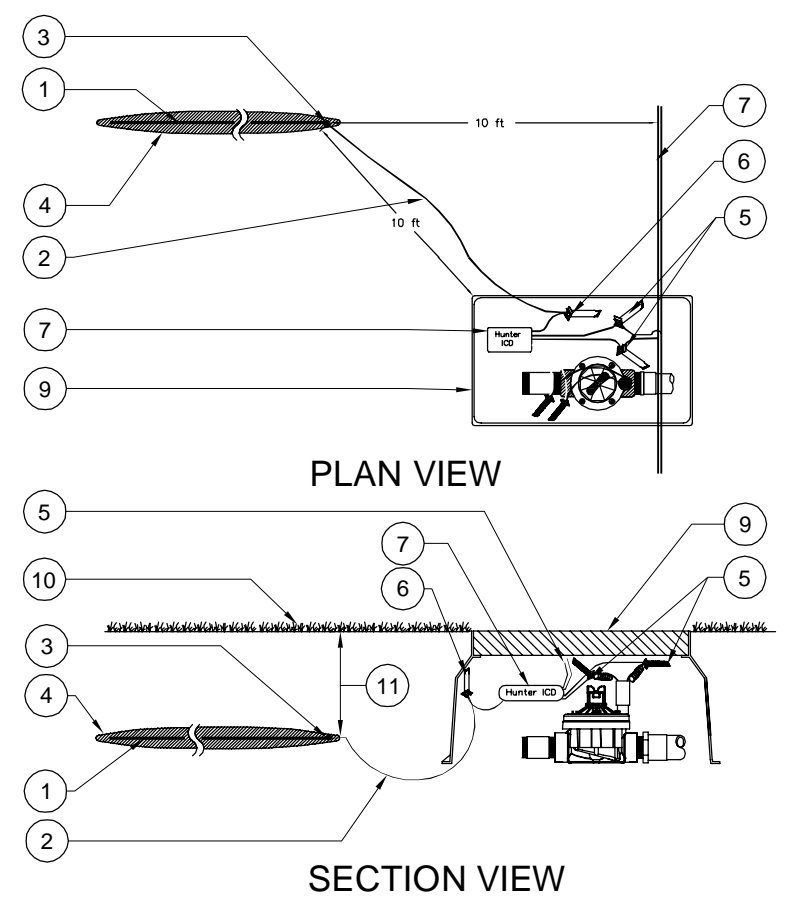
- NOTES:**
- CONTRACTOR SHALL ADJUST ALL IRRIGATION TO PREVENT OVERSPRAY ON CONTROLLER ENCLOSURE IF APPLICABLE.
  - CONTACT HUNTER PRIOR TO ORDERING TO CONFIRM SPECIFIC CONTROLLER MODEL NUMBER AND ASSOCIATED COMPONENTS.
  - ALL CONTROLLER COMPONENTS MUST BE CERTIFIED BY HUNTER.



- 13 3 CU. FT. 3/8" PEA GRAVEL.
- 14 DOOR IN OPEN POSITION.
- 15 PROVIDE CUSTOM DECAL AND CONTROLLER ID ON THE EXTERIOR FRONT FACE OF THE CONTROLLER. DECAL SHALL INDICATE LOCATION AND NAME OF ORIGINATING ELECTRICAL PANEL AND BRANCH CIRCUIT IDENTIFICATION NUMBER.
- 16 SEAL ENDS WITH DUCT SEAL AFTER WIRE INSTALLATION, TYP.
- 17 1" SCH. 40 PVC CONDUIT AND SWEEP FOR 110VAC POWER CONDUCTOR. 24" MIN. BURIAL DEPTH. REFER TO ELECTRICAL DWGS FOR ELECTRICAL POINT-OF-CONNECTION LOCATION.
- 18 CONTROLLER GROUNDING EQUIPMENT. REFER TO DETAIL #
- 19 #6 GROUND WIRE.
- 20 1" SCH. 40 PVC CONDUIT AND SWEEP ELL FOR GROUND WIRE.

- 1 CONTROLLER. GRAY METAL OUTDOOR, WALL MOUNT ENCLOSURE (UL LISTED), SHOWN WITH FRONT IN CLOSED POSITION. ENCLOSURE DIMENSIONS 15.7" WIDE X 15.7" HIGH X 6.8" DEEP.
- 2 GRAY METAL PEDESTAL. INSTALL WALL MOUNT CONTROLLER AS PER MANUFACTURER INSTRUCTIONS.
- 3 3" SCH. 40 PVC CONDUIT AND SWEEP FOR REMOTE CONTROL WIRES.
- 4 1" SCH. 40 PVC CONDUIT AND SWEEP ELL WITH HYDROMETER CABLE.
- 5 SEAL INTERIOR OF CABINET WITH DUCT SEAL.
- 6 ANCHOR BOLTS. SET IN WET CONCRETE FOOTING USING TEMPLATE.
- 7 8" MIN. THICK, POURED-IN-PLACE CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS. BEVEL EDGES, TYP. (LIGHT BROOM FINISH). SLOPE PAD WAY FROM CONTROLLER TO DRAIN. PAD SIZE TO BE 28" WIDE x 26" DEEP MIN. SIZE.
- 8 PROVIDE 36" EXPANSION COILS AT ALL WIRE RUNS.
- 9 #6 PRECAST CONCRETE PULL BOX. LOCATE DIRECTLY ADJACENT TO CONCRETE FOOTING.
- 10 6" DEEP CONCRETE COLLAR, TYP. OF (3) EDGES.
- 11 FINISH GRADE.
- 12 LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.

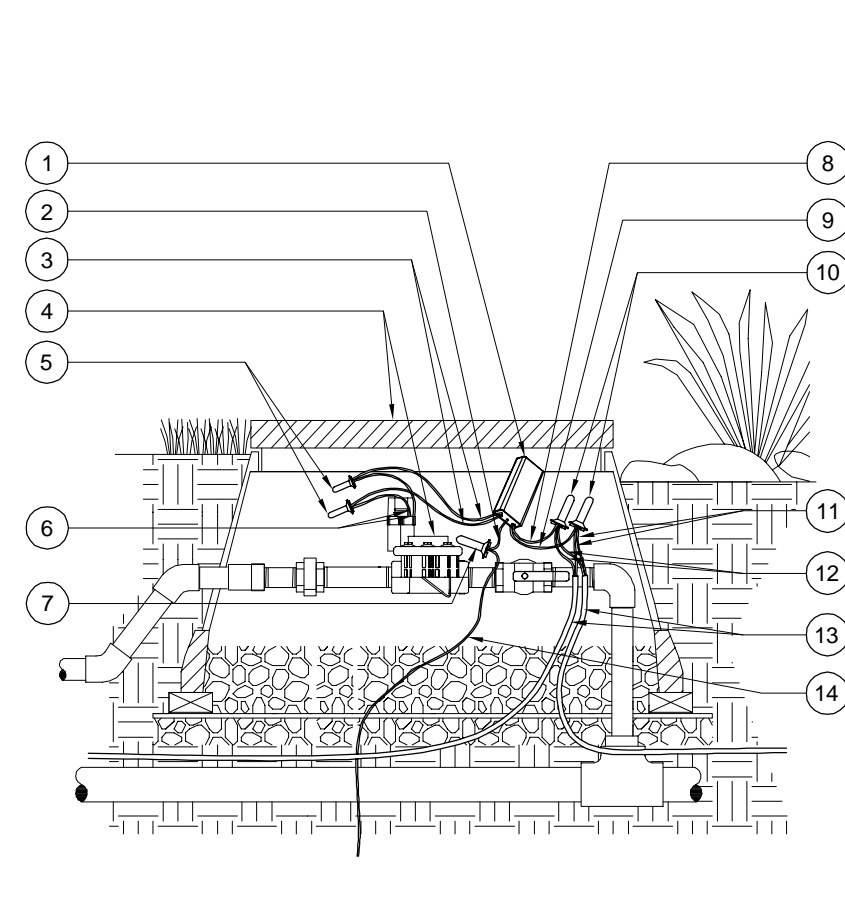
1 AUTOMATIC IRRIGATION CONTROLLER (PEDESTAL MOUNT)



- 1 4" x 4" x 1/4" UL COPPER GROUND PLATE.
- 2 10' #6 SOLID COPPER GROUND WIRE.
- 3 CAD WELD CONNECTOR.
- 4 EARTH CONTACT MATERIAL.
- 5 DBR-6 CONNECTOR.
- 6 DBY CONNECTOR.
- 7 HUNTER ICD-100.
- 8 2 WIRE CABLE PATH.
- 9 REFER TO REMOTE CONTROL VALVE DETAIL.
- 10 FINISHED GRADE.
- 11 30" DEPTH.

- NOTES:**
- PROVIDE 36" EXPANSION COILS IN EVERY VALVE BOX FOR EASIER SERVICING.
  - EARTH GROUND TO BE A MINIMUM OF 8-FEET FROM DECODER AND AT A RIGHT ANGLE TO THE 2-WIRE PATH.
  - INSTALL SPLICE KITS INCLUDED WITH DECODER FOR REQUIRED CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.
  - INSTALL EARTH GROUND AT EVERY 12TH DECODER AND AT ENDS OF 2-WIRE PATH.

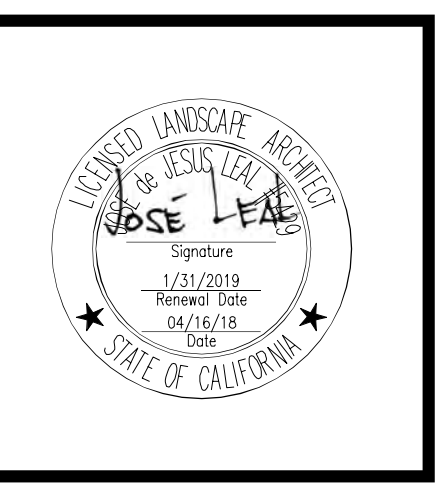
4 ICD DECODER GROUNDING PLATE



- 1 2-WIRE DECODER. REFER TO LEGEND.
- 2 WIRE TO EARTH GROUND.
- 3 2 BLACK WIRES FROM 2-WIRE DECODER.
- 4 REMOTE CONTROL VALVE IN VALVE BOX. INSTALL AS PER DETAIL 9LI-501 OR 1LI-502.
- 5 WATERPROOF WIRE CONNECTOR (2). CONNECT RED SOLENOID WIRES TO BLACK WIRES FROM DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 6 2 RED COLORED WIRES FROM REMOTE CONTROL VALVE SOLENOID.
- 7 WATERPROOF WIRE CONNECTOR (1). CONNECT GROUND WIRE TO GROUNDING WIRE FROM DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 8 1 RED WIRE FROM 2-WIRE DECODER.
- 9 1 BLUE WIRE FROM 2-WIRE DECODER.
- 10 WATERPROOF WIRE CONNECTOR (2). CONNECT RED AND BLUE WIRES FROM 2-WIRE CABLE TO RED AND BLUE WIRES FROM DECODER. MATCH COLORS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 11 2-WIRE DECODER CABLE BLUE WIRES.
- 12 2-WIRE DECODER CABLE RED WIRES.
- 13 2-WIRE DECODER CABLE FROM CONTROLLER AND TO NEXT DEVICE.
- 14 WIRE TO EARTH GROUND. REFER TO DETAIL 2LI-503.

- NOTES:**
- PROVIDE 36" EXPANSION COILS IN EVERY VALVE BOX FOR EASIER SERVICING.
  - EARTH GROUND TO BE A MINIMUM OF 8-FEET FROM DECODER AND AT A RIGHT ANGLE TO THE 2-WIRE PATH.
  - INSTALL SPLICE KITS INCLUDED WITH DECODER FOR REQUIRED CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

3 DECODER AT REMOTE CONTROL VALVE



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJJ  
DRAWN BY: JJLDV  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE IRRIGATION  
CONSTRUCTION DETAILS  
- 03





PLANT LEGEND

Symbol

TREES

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
	1 ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD	15 GAL	PER PLAN	
	2 CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL	PER PLAN	
	3 PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL	PER PLAN	
	4 PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL	PER PLAN	
	5 QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL	PER PLAN	
	6 QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL	PER PLAN	
	7 QUERCUS ILEX	HOLLY OAK	LOW	15 GAL	PER PLAN	
	8 QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL	PER PLAN	
	9 QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL	PER PLAN	
	10 QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL	PER PLAN	

Symbol

SHRUBS

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
UP TO 36" H	1 ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL	3' O.C.	
	use various colors e.g.	Apple Blossom', 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and 'Red Velvet'				
	2 ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL	8' O.C.	
	3 BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL	4' O.C.	
	4 BOUTELOJA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL	3' O.C.	
	5 CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL	3' O.C.	
	CEANOETHUS THYRSIFLORUS VAR.					
	6 GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOETHUS	LOW	5 GAL	8' O.C.	
	7 CISTUS CRISPUS	PROSTRATE ROCK ROSE	LOW	5 GAL	4' O.C.	
	8 DAISYLIRION WHEELERI	SPOON YUCCA	LOW	5 GAL	3' O.C.	
	9 HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	LOW	5 GAL	3' O.C.	
	10 HESPERALOE PARVIFLORA	RED YUCCA	LOW	5 GAL	4' O.C.	
	11 LUPINUS ALBIFRONS	SILVER LUPINE	VERY LOW	5 GAL	5' O.C.	
	12 RIBES VIBURNIFOLIUM	CATALINA CURRANT	VERY LOW	5 GAL	8' O.C.	
	13 SALVIA SPATHACEA	HUMMINGBIRD SAGE	VERY LOW	1 GAL	3' O.C.	
	14 WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	LOW	5 GAL	5' O.C.	
UP TO 24" H	ARCTOSTAPHYLOS NEVADENSIS X					
	15 VISCIDA	PINE MAT MANZANITA	LOW	5 GAL	8' O.C.	
	16 EROPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	LOW	5 GAL	2' O.C.	
	17 FESTUCA IDAHOENSIS	IDAHO FESCUE	VERY LOW	1 GAL	1' O.C.	
	18 IRIS DOUGLASIANA	DOUGLAS IRIS	LOW	1 GAL	3' O.C.	
	19 SISYRINCHIUM BELLUM	BLUE-EYED GRASS	LOW	1 GAL	1+ O.C.	
UP TO 12" H	20 BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL	2' O.C.	
	21 CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL	2' O.C.	
	22 FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL	3' O.C.	

HYDROSEED MIXES

SYM.	Botanical Name	Common Name	Water Use	MIX RATIO
<b>HYDROSEED MIXES</b>				
	FOOTHILL MIX - OPEN AREA			LBS. PER 1000 S.F.
	BROMUS CARINATUS SIERRA 5000	CALIFORNIA BROME GRASS	L	10
	ELYMUS GLAUCUS	BLUE WILD RYE	L	8
	HORDEUM CALIFORNICUM	CALIFORNIA BARLEY	L	8
	FESTUCA IDAHOENSIS VNS	IDAHO FESCUE	L	5
	STIPA PULCHRA	PURPLE NEEDLEGRASS	VL	5
	POA SECUNDA NATIVE	SANDBERG BLUEGRASS	L	3
<b>EROSION CONTROL MIX WITH FLOWERS</b>				
	BROMUS CARINATUS	CALIFORNIA BROME GRASS	L	10
	ELYMUS GLAUCUS	BLUE WILD RYE	L	8
	HORDEUM BRACHYANTHERUM	MEADOW BARLEY	VL	8
	DESCHAMPSIA CESPITOSA VNS	TUFTED HAIR GRASS	L	3
	DESCHAMPSIA ELONGATA	SLENDER HAIR GRASS	L	3
	POA SECUNDA NATIVE	SANDBERG BLUEGRASS	L	2
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	VL	1.5
	LATHENIA CALIFORNICA	CALIFORNIA GOLDFIELDS	L	1
	LUPINUS NANUS	SKY LUPINE	L	2
	ACHILLEA MILLEFOLIUM WHITE	WHITE COMMON YARROW	L	1
	ERIOPHYLLUM LANATUM	COMMON WOOLLY SUNFLOWER	L	1.5
<b>EROSION CONTROL MIX</b>				
	BROMUS CARINATUS SIERRA 5000	CALIFORNIA BROME GRASS	L	10
	HORDEUM BRACHYANTHERUM	MEADOW BARLEY	VL	8
	STIPA PULCHRA	PURPLE NEEDLEGRASS	VL	8
	MELICA CALIFORNICA	CALIFORNIA MELIC GRASS	L	6
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	VL	2
	CEANOETHUS CALIFORNICA	CALIFORNIA LILAC	L	2
	ARTEMISIA DOUGLASIANA	CALIFORNIA SAGEBRUSH	L	0.5

GENERAL PLANTING NOTES

- REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
- THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
- THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO ACCOMMODATE EXISTING UTILITIES, ACTUAL SITE CONDITIONS, ETC.
- THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
- EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
- WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGING AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

GENERAL PLANTING LEGEND

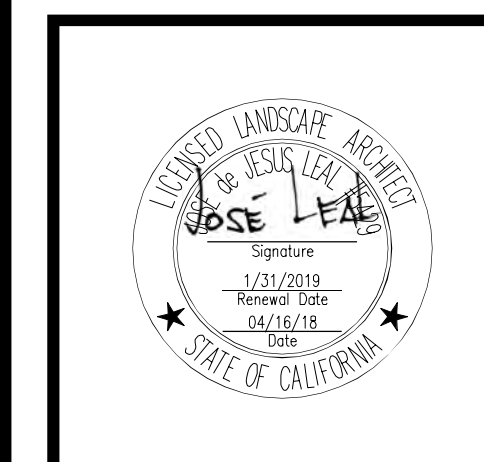
- FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED. REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX NON-IRRIGATED. REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED. REFER TO PLANT LEGEND.
- DECOMPOSED GRANITE MULCH (3/4" FINES)
- DECOMPOSED GRANITE PAVING - (NON STABILIZED)
- LANDSCAPE BOULDERS - (30" H X 36" W X 36" D MIN.)



**C/S BROWARD builders**



**Arrington Watkins Architects**  
 2024 Opportunity Drive, Suite 150  
 Roseville, California 95678  
 Telephone: (916) 338-7707  
 Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: J.J.L.  
 DRAWN BY: J.J.L./M.B.  
 APPROVED BY: R.L.

**SHEET TITLE:**  
 LANDSCAPE PLANTING LEGEND AND NOTES



**SHEET NUMBER:**  
**PS-LP-001**  
 18-0565 C 13 of 23





**GENERAL PLANTING NOTES**

- REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
- THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
- THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO ACCOMMODATE EXISTING UTILITIES, ACTUAL SITE CONDITIONS, ETC.
- THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
- EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
- WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGINGS AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

**GENERAL PLANTING LEGEND**

	FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED, REFER TO PLANT LEGEND.
	EROSION CONTROL HYDROSEED MIX NON-IRRIGATED, REFER TO PLANT LEGEND.
	EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED, REFER TO PLANT LEGEND.
	DECOMPOSED GRANITE MULCH (3/4" FINES)
	DECOMPOSED GRANITE PAVING - (NON STABILIZED)
	LANDSCAPE BOULDERS - (30" H X 36" W X 36" D MIN.)



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



NO.	REVISION	DATE

PROJECT NO. 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJL  
DRAWN BY: JJL/JMB  
APPROVED BY: RL

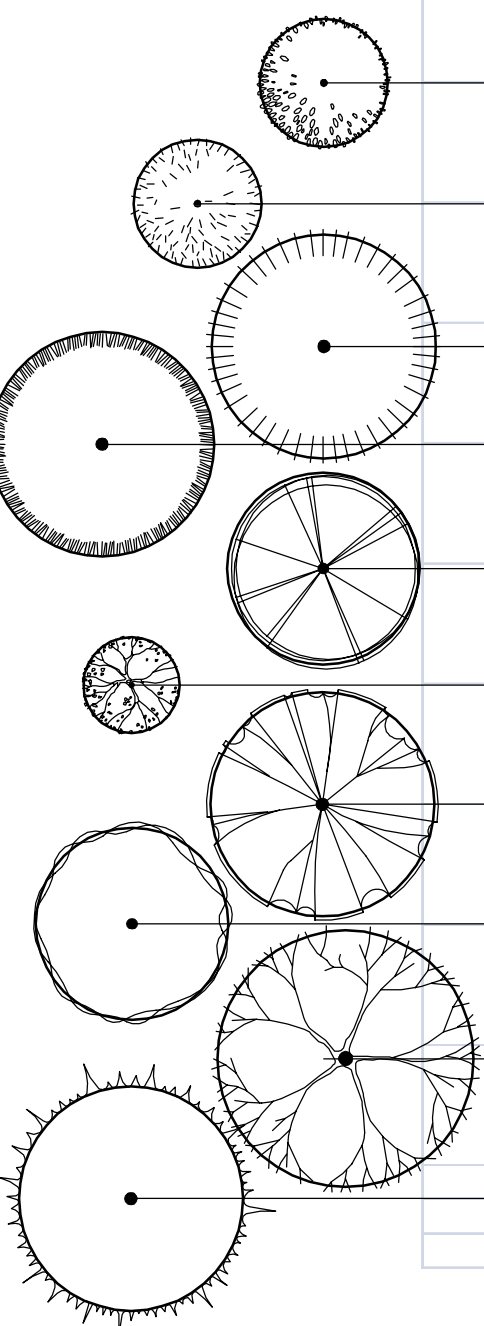
SHEET TITLE:  
LANDSCAPE PLANTING PLAN - A

SHEET NUMBER:  
**PS-LP-101**

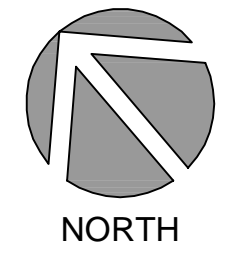
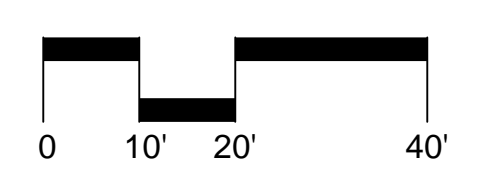
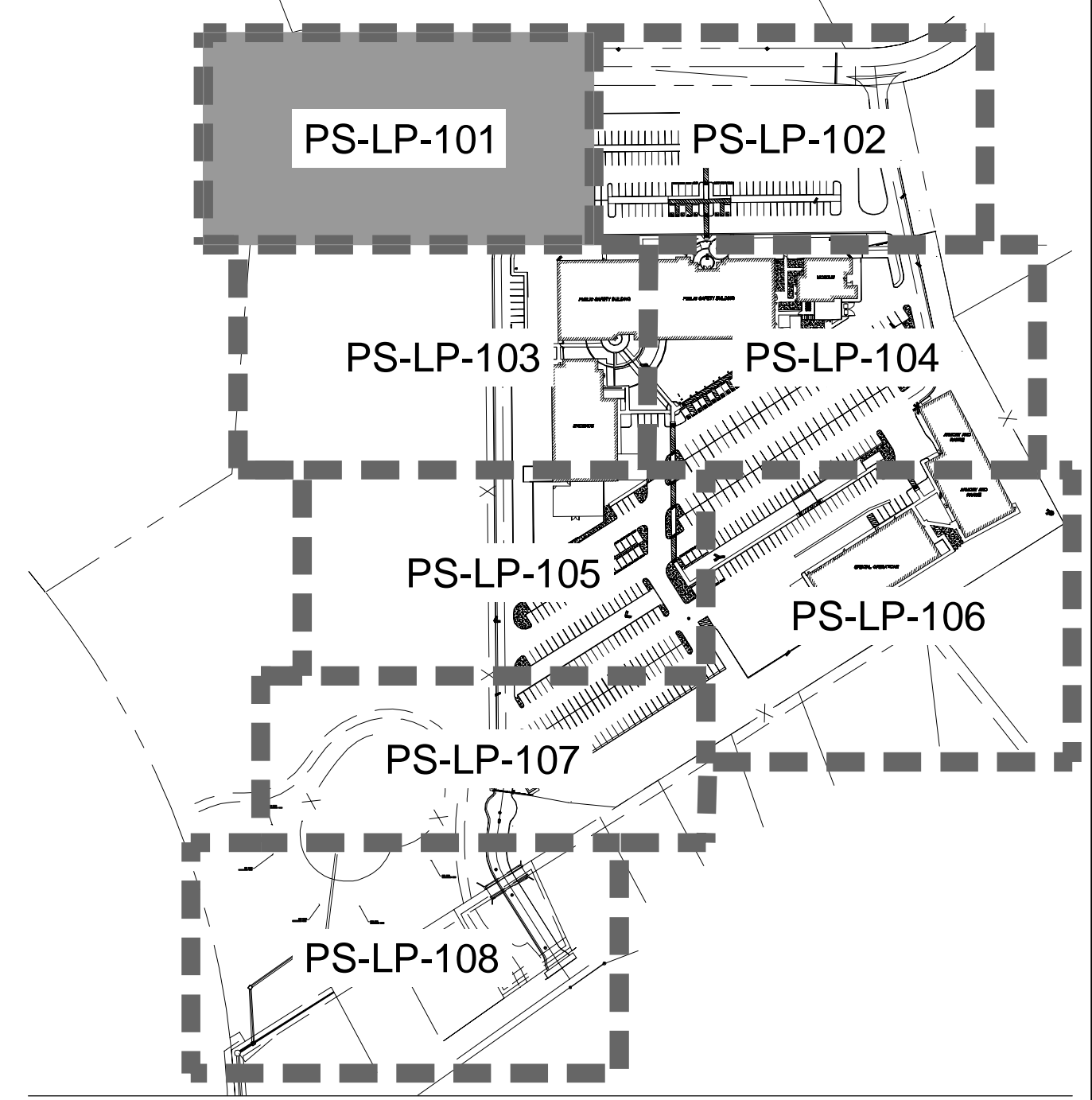
18-0565 C 14 of 23



Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
②	1 ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD.	15 GAL.	PER PLAN	
	2 CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL.	PER PLAN	
3	PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL.	PER PLAN	
4	PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL.	PER PLAN	
5	QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL.	PER PLAN	
6	QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL.	PER PLAN	
7	QUERCUS ILEX	HOLLY OAK	LOW	15 GAL.	PER PLAN	
8	QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL.	PER PLAN	
9	QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL.	PER PLAN	
10	QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL.	PER PLAN	

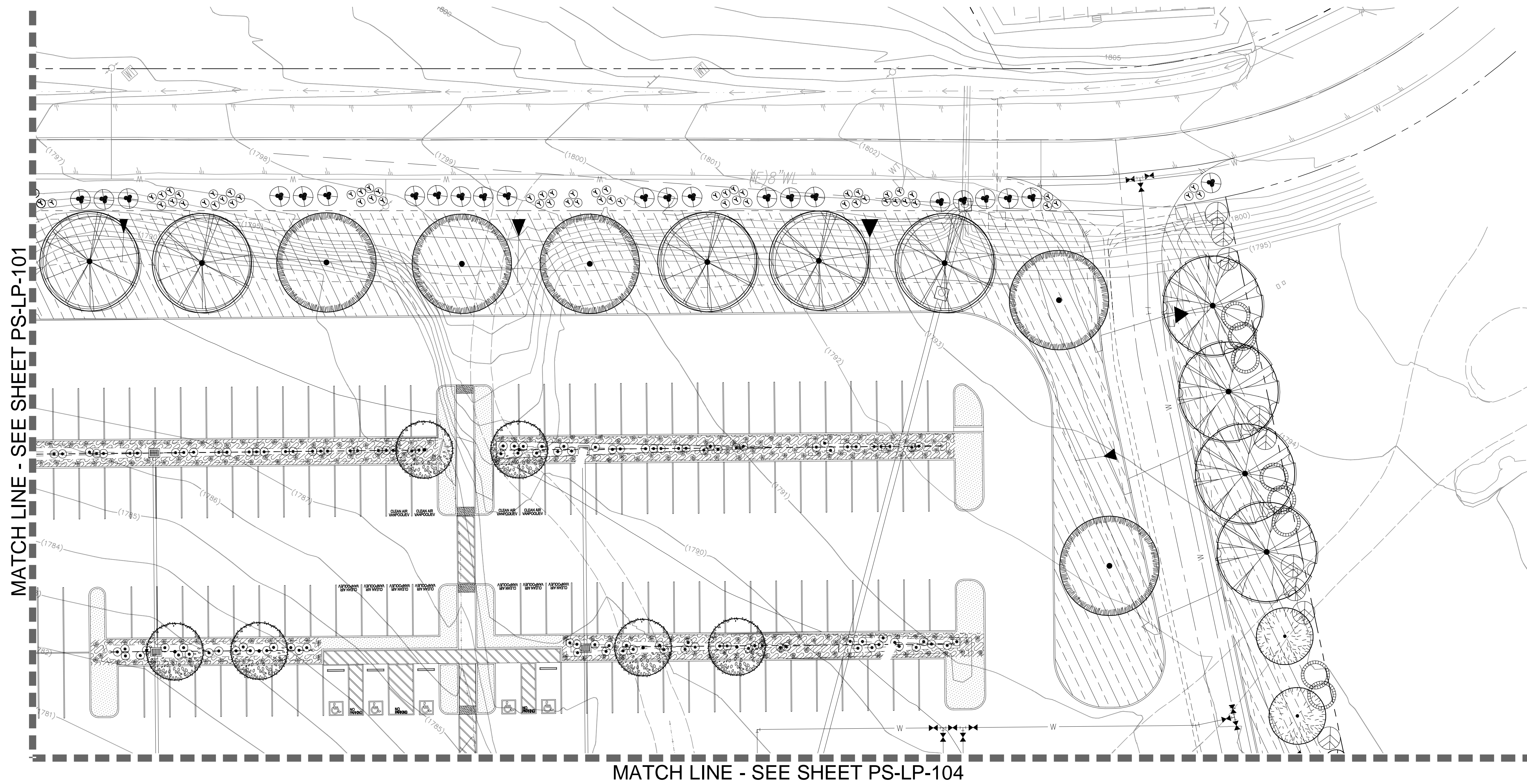


Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
②	1 ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL.	3' O.C.	
use various colors e.g.		Apple Blossom', 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and Red Velvet				
②	2 ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL.	8' O.C.	
③	3 BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL.	4' O.C.	
④	4 BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL.	3' O.C.	
⑤	5 CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL.	3' O.C.	
⑥	6 GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOTHUS	LOW	5 GAL.	8' O.C.	
⑦	7 CISTUS CRISPUS	PROSTRATE ROCK ROSE	LOW	5 GAL.	4' O.C.	
⑧	8 DAISYLIRION WHEELERI	SPOON YUCCA	LOW	5 GAL.	3' O.C.	
⑨	9 HELICTOTRICHION SEMPERVIRENS	BLUE OAT GRASS	LOW	5 GAL.	3' O.C.	
⑩	10 HESPERALOE PARVIFLORA	RED YUCCA	LOW	5 GAL.	4' O.C.	
⑪	11 LUPINUS ALBIFRONS	SILVER LUPINE	VERY LOW	5 GAL.	5' O.C.	
⑫	12 RIBES VIBURNIFOLIUM	CATALINA CURRANT	VERY LOW	5 GAL.	8' O.C.	
⑬	13 SALVIA SPATHACEA	HUMMINGBIRD SAGE	VERY LOW	1 GAL.	3' O.C.	
⑭	14 WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	LOW	5 GAL.	5' O.C.	
UP TO 24" H						
⑮	15 ARCTOSTAPHYLOS NEVADENSIS X VISCIDA	PINE MAT MANZANITA	LOW	5 GAL.	8' O.C.	
⑯	16 ERIOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	LOW	5 GAL.	2' O.C.	
⑰	17 FESTUCA IDAHOENSIS	IDAHO FESCUE	VERY LOW	1 GAL.	1' O.C.	
⑱	18 IRIS DOUGLASIANA	DOUGLAS IRIS	LOW	1 GAL.	3' O.C.	
⑲	19 SISYRINCHIUM BELLUM	BLUE-EYED GRASS	LOW	1 GAL.	1+ O.C.	
UP TO 12" H						
⑳	20 BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL.	2' O.C.	
㉑	21 CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL.	2' O.C.	
㉒	22 FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL.	3' O.C.	



18-0565 C 14 of 23





MATCH LINE - SEE SHEET PS-LP-101

MATCH LINE - SEE SHEET PS-LP-104

**GENERAL PLANTING NOTES**

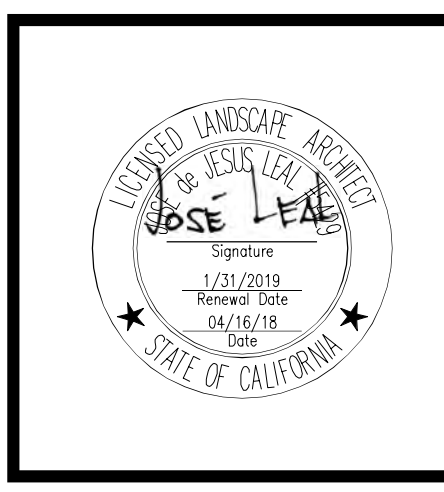
- REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
- THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
- THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO ACCOMMODATE EXISTING UTILITIES, ACTUAL SITE CONDITIONS, ETC.
- THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
- EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
- WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGING AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

**GENERAL PLANTING LEGEND**

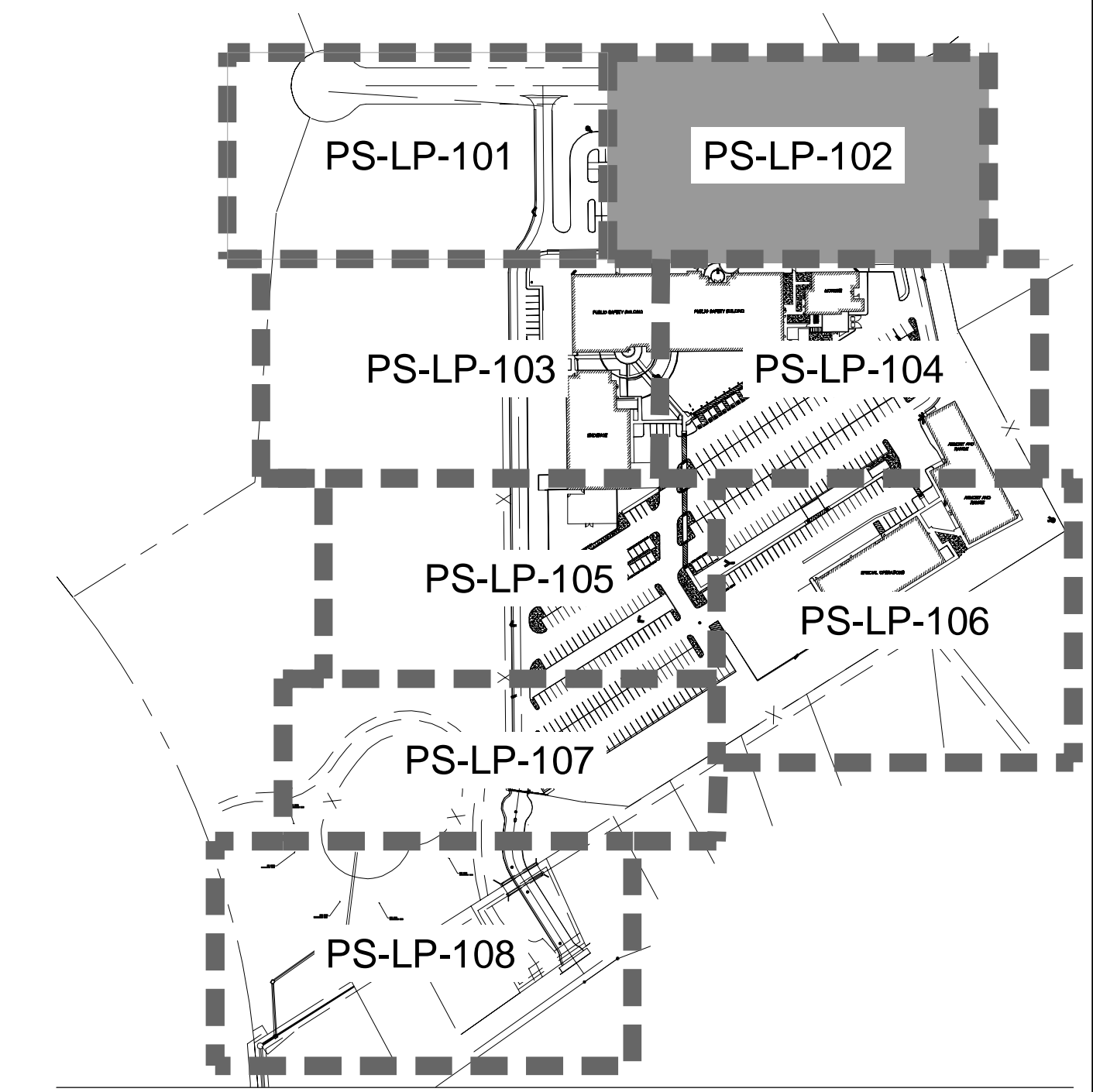
	FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED. REFER TO PLANT LEGEND.
	EROSION CONTROL HYDROSEED MIX NON-IRRIGATED. REFER TO PLANT LEGEND.
	EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED. REFER TO PLANT LEGEND.
	DECOMPOSED GRANITE MULCH (3/4" FINES)
	DECOMPOSED GRANITE PAVING - (NON STABILIZED)
	LANDSCAPE BOULDERS - (30" H X 36" W X 36" D MIN.)

**C/S**  
C/S BROWARD  
builders

**Arrington Watkins Architects**  
2024 Opportunity Drive, Suite 150  
Roseville, California 95678  
Telephone: (916) 338-7707  
Fax: (916) 510-3055



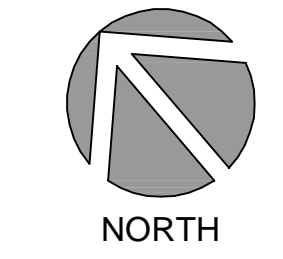
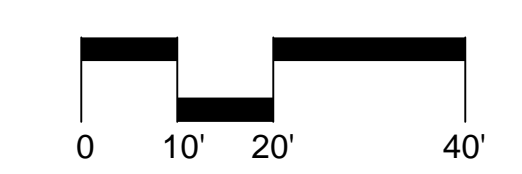
PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



KEY MAP - NTS

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
①	1 ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD	15 GAL	PER PLAN	
②	2 CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL	PER PLAN	
③	3 PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL	PER PLAN	
④	4 PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL	PER PLAN	
⑤	5 QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL	PER PLAN	
⑥	6 QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL	PER PLAN	
⑦	7 QUERCUS ILEX	HOLLY OAK	LOW	15 GAL	PER PLAN	
⑧	8 QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL	PER PLAN	
⑨	9 QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL	PER PLAN	
⑩	10 QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL	PER PLAN	

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
⑪	11 ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL	3' O.C.	
⑫	use various colors e.g. Apple Blossom', 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and 'Red Velvet'					
⑬	12 ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL	8' O.C.	
⑭	13 BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL	4' O.C.	
⑮	14 BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL	3' O.C.	
⑯	15 CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL	3' O.C.	
⑰	16 CEANOTHUS THYRSIFLORUS VAR. GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOTHUS	LOW	5 GAL	8' O.C.	
⑱	17 CISTUS CRISPUS	PROSTRATE ROCK ROSE	LOW	5 GAL	4' O.C.	
⑲	18 DAISYLRIGON WHEELERI	SPOON YUCCA	LOW	5 GAL	3' O.C.	
⑳	19 HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	LOW	5 GAL	3' O.C.	
㉑	20 HESPERALOE PARVIFLORA	RED YUCCA	LOW	5 GAL	4' O.C.	
㉒	21 LUPINUS ALBIFRONS	SILVER LUPINE	VERY LOW	5 GAL	5' O.C.	
㉓	22 RIBES VIBURNIFOLIUM	CATALINA CURRANT	VERY LOW	5 GAL	8' O.C.	
㉔	23 SALVIA SPATHACEA	HUMMINGBIRD SAGE	VERY LOW	1 GAL	3' O.C.	
㉕	24 WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	LOW	5 GAL	5' O.C.	
⑳	UP TO 24" H					
㉖	25 ARCTOSTAPHYLOS NEVADENSIS X VISCIDA	PINE MAT MANZANITA	LOW	5 GAL	8' O.C.	
㉗	26 ERIOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	LOW	5 GAL	2' O.C.	
㉘	27 FESTUCA IDAHOENSIS	IDAHO FESCUE	VERY LOW	1 GAL	1' O.C.	
㉙	28 IRIS DOUGLASIANA	DOUGLAS IRIS	LOW	1 GAL	3' O.C.	
㉚	29 SISYRINCHIUM BELLUM	BLUE-EYED GRASS	LOW	1 GAL	1+ O.C.	
㉛	UP TO 12" H					
㉜	30 BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL	2' O.C.	
㉝	31 CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL	2' O.C.	
㉞	32 FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL	3' O.C.	



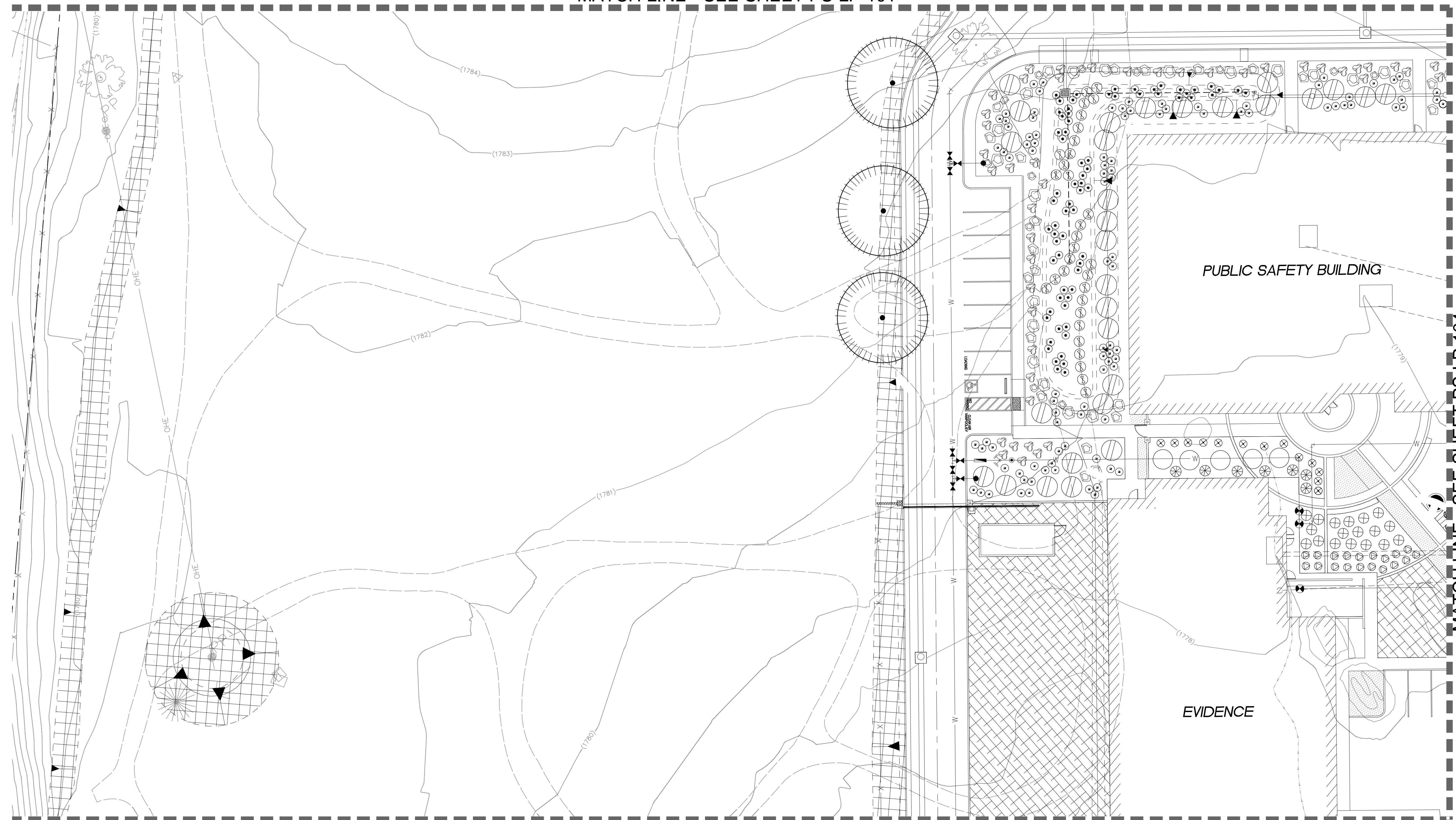
NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJJ  
DRAWN BY: JJLMB  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE PLANTING PLAN - B  
SHEET NUMBER:  
**PS-LP-102**



MATCH LINE - SEE SHEET PS-LP-101



MATCH LINE - SEE SHEET PS-LP-105

GENERAL PLANTING NOTES

1. REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
2. THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
3. THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO ACCOMMODATE EXISTING UTILITIES, ACTUAL SITE CONDITIONS, ETC.
4. THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
5. EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
6. WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGING AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

GENERAL PLANTING LEGEND

- FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED, REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX NON-IRRIGATED, REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED, REFER TO PLANT LEGEND.
- DECOMPOSED GRANITE MULCH (3/4" FINES)
- DECOMPOSED GRANITE PAVING - (NON STABILIZED)
- LANDSCAPE BOULDERS - (30" H X 36" W X 36" D MIN.)



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



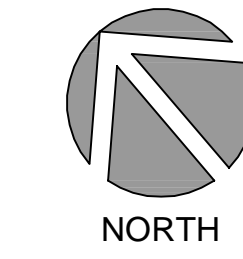
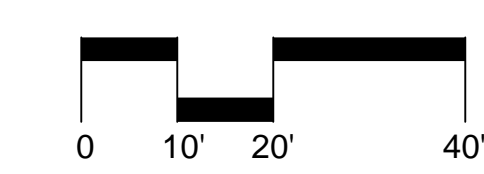
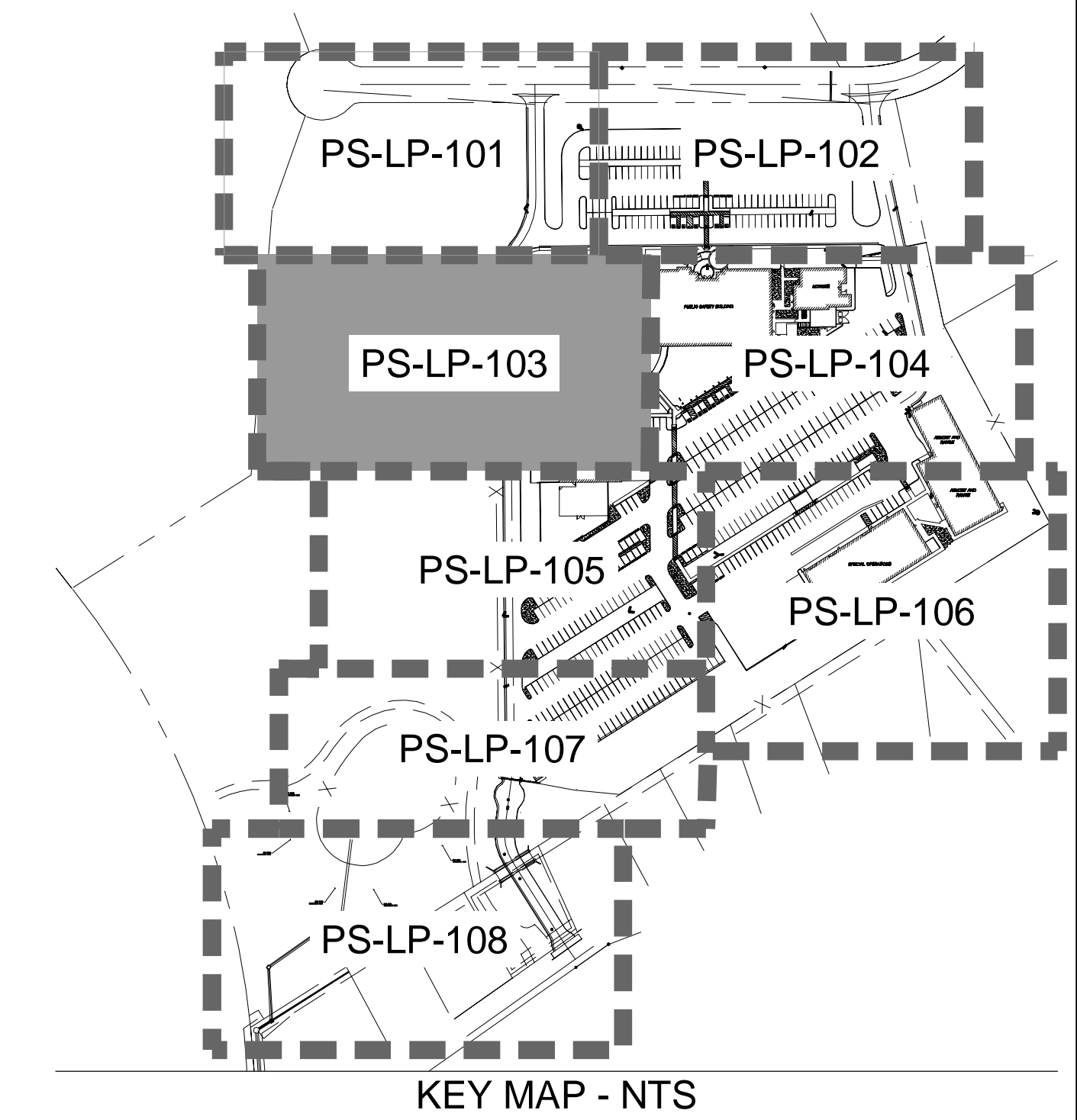
NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJJ  
DRAWN BY: JJJMB  
APPROVED BY: RL

SHEET TITLE:  
LANDSCAPE PLANTING PLAN - C  
SHEET NUMBER:  
**PS-LP-103**

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
①	1 ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD	15 GAL	PER PLAN	
②	2 CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL	PER PLAN	
③	3 PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL	PER PLAN	
④	4 PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL	PER PLAN	
⑤	5 QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL	PER PLAN	
⑥	6 QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL	PER PLAN	
⑦	7 QUERCUS ILEX	HOLLY OAK	LOW	15 GAL	PER PLAN	
⑧	8 QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL	PER PLAN	
⑨	9 QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL	PER PLAN	
⑩	10 QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL	PER PLAN	

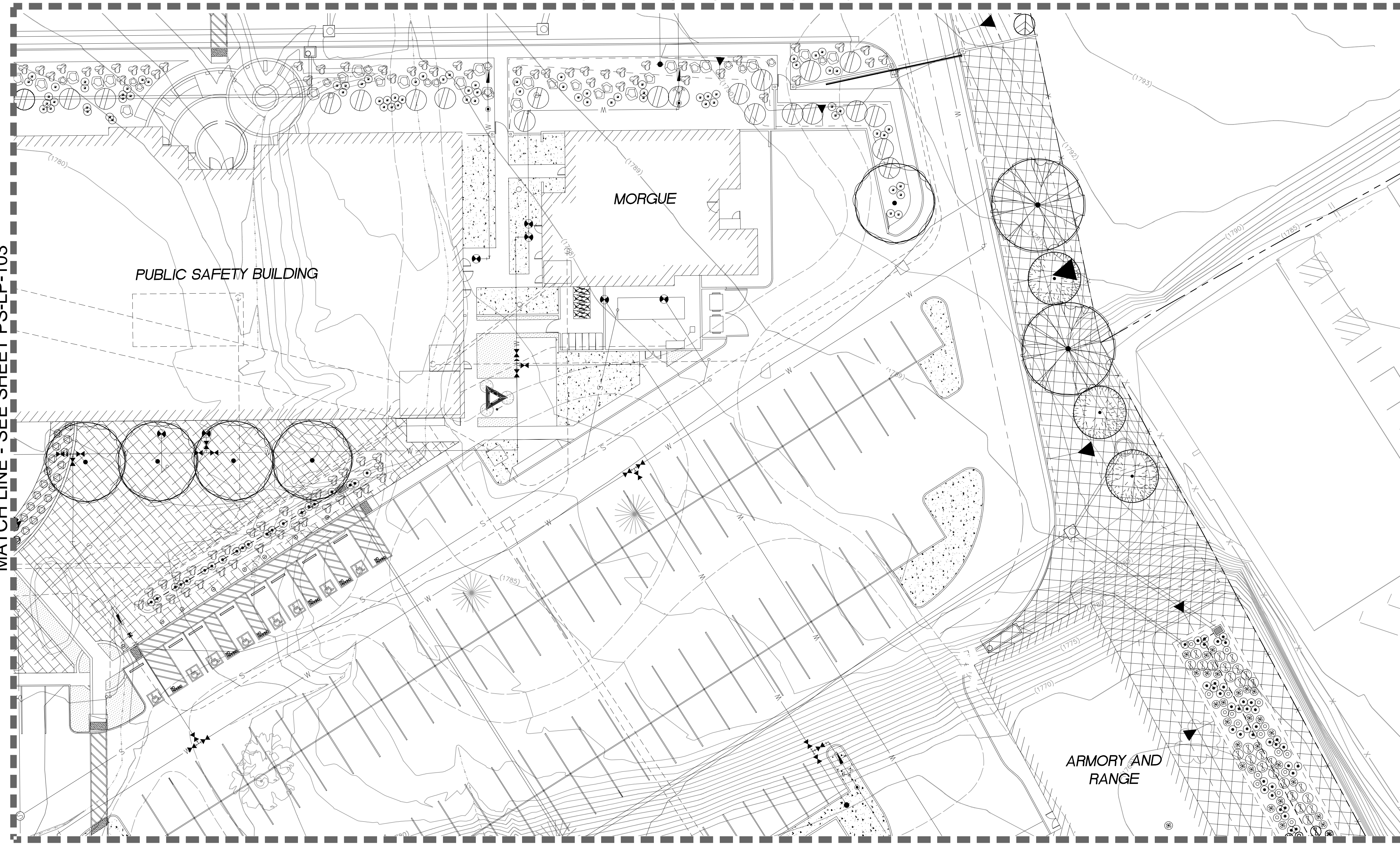
Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
⑪	11 UP TO 36" H 1 ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL	3' O.C.	
⑫	12 use various colors e.g.	Apple Blossom', 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and 'Red Velvet'				
⑬	13 2 ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL	8' O.C.	
⑭	14 3 BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL	4' O.C.	
⑮	15 4 BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL	3' O.C.	
⑯	16 5 CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL	3' O.C.	
⑰	17 CEANOTHUS THYRSIFLORUS VAR.	YANKEE POINT CEANOTHUS	LOW	5 GAL	8' O.C.	
⑱	18 6 GRISEUS 'YANKEE POINT'	PROSTRATE ROCK ROSE	LOW	5 GAL	4' O.C.	
⑲	19 7 CISTUS CRISPUS	SPOON YUCCA	LOW	5 GAL	3' O.C.	
⑳	20 8 DAISYLIRION WHEELERI	BLUE OAT GRASS	LOW	5 GAL	3' O.C.	
㉑	21 9 HELICTOTRICHON SEMPERVIRENS	RED YUCCA	LOW	5 GAL	4' O.C.	
㉒	22 10 HESPERALOE PARVIFLORA	SILVER LUPINE	VERY LOW	5 GAL	5' O.C.	
㉓	23 11 LUPINUS ALBIFRONS	CATALINA CURRANT	VERY LOW	5 GAL	8' O.C.	
㉔	24 12 RIBES VIBURNIFOLIUM	HUMMINGBIRD SAGE	VERY LOW	1 GAL	3' O.C.	
㉕	25 13 SALVIA SPATHACEA	GIANT CHAIN FERN	LOW	5 GAL	5' O.C.	
㉖	26 14 WOODWARDIA FIMBRIATA					
㉗	27 UP TO 24" H 15 ARCTOSTAPHYLOS NEVADENSIS X	PINE MAT MANZANITA	LOW	5 GAL	8' O.C.	
㉘	16 VISCIDA	GOLDEN YARROW	LOW	5 GAL	2' O.C.	
㉙	17 ERIOPHYLLUM CONFERTIFLORUM	IDAHO FESCUE	VERY LOW	1 GAL	1' O.C.	
㉚	18 FESTUCA IDAHOENSIS	DOUGLAS IRIS	LOW	1 GAL	3' O.C.	
㉛	19 IRIS DOUGLASIANA	BLUE-EYED GRASS	LOW	1 GAL	1+ O.C.	
㉜	20 SISYRINCHIUM BELLUM					
㉝	21 UP TO 12" H 20 BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL	2' O.C.	
㉞	21 CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL	2' O.C.	
㉟	22 FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL	3' O.C.	





MATCH LINE - SEE SHEET PS-LP-102

MATCH LINE - SEE SHEET PS-LP-103



MATCH LINE - SEE SHEET PS-LP-106

**GENERAL PLANTING NOTES**

1. REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
2. THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
3. THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
4. THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
5. THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
6. EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
7. WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGING AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

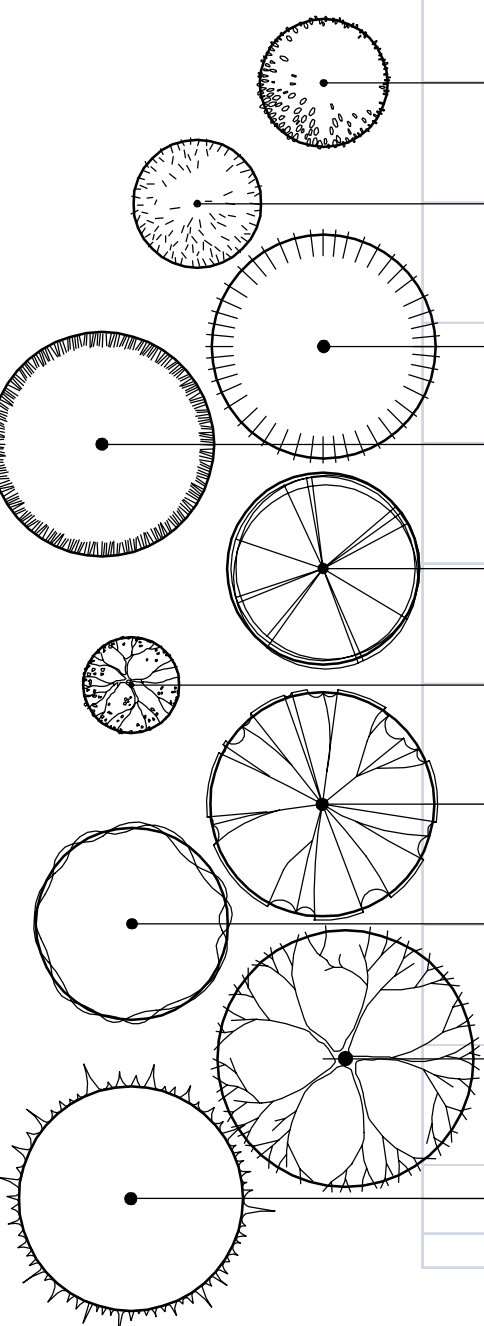
**GENERAL PLANTING LEGEND**

- FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED. REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX NON-IRRIGATED. REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED. REFER TO PLANT LEGEND.
- 
- 
- 

**C/S BROWARD builders**  
 Arrington Watkins Architects  
 2024 Opportunity Drive, Suite 150  
 Roseville, California 95678  
 Telephone: (916) 338-7727  
 Fax: (916) 510-3055

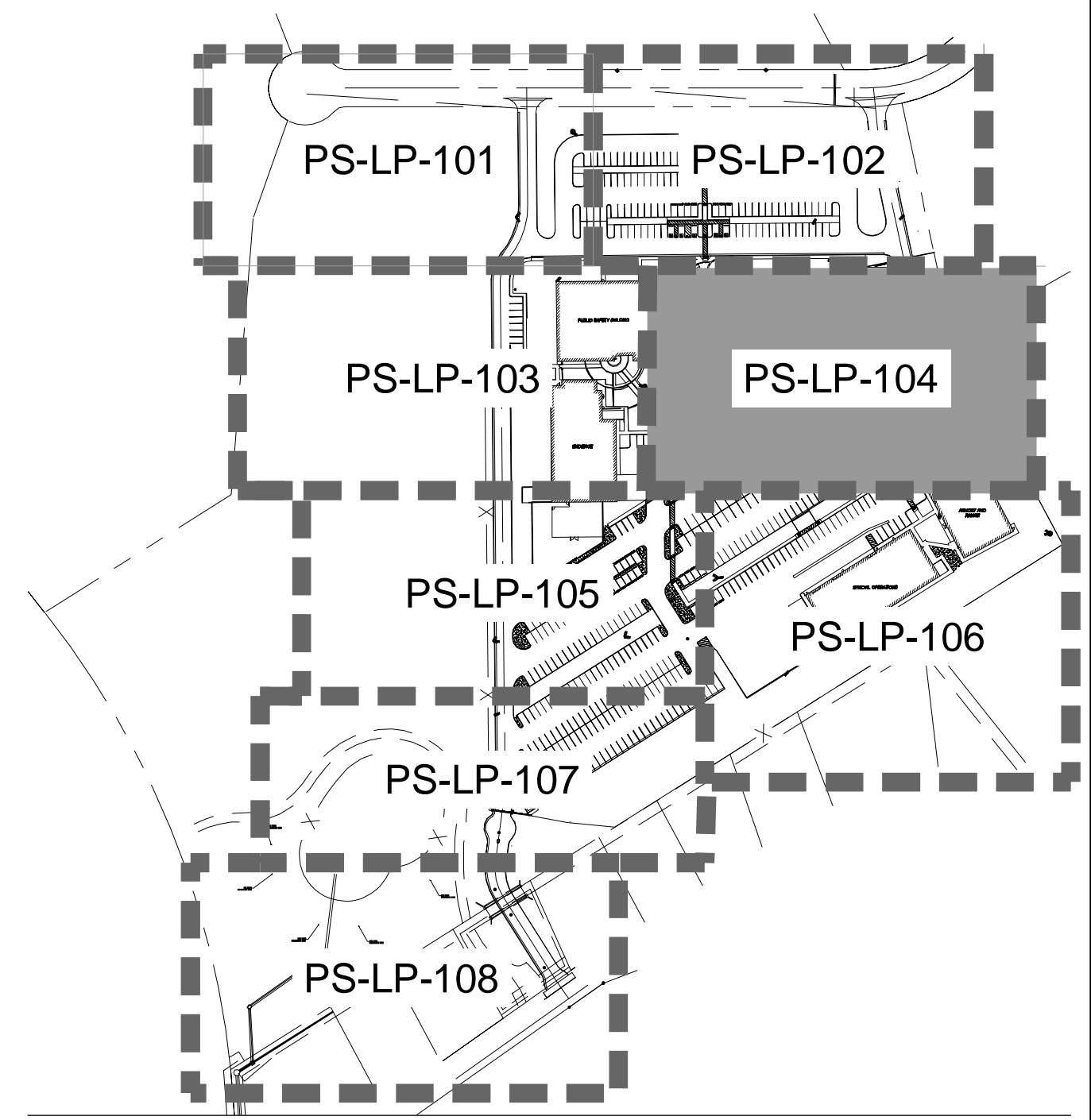


PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619

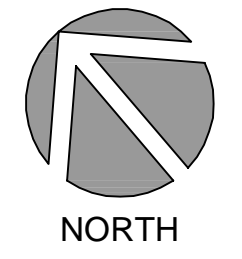
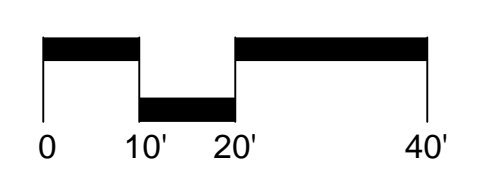


Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
①	1 ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD	15 GAL	PER PLAN	
②	2 CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL	PER PLAN	
③	3 PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL	PER PLAN	
④	4 PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL	PER PLAN	
⑤	5 QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL	PER PLAN	
⑥	6 QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL	PER PLAN	
⑦	7 QUERCUS ILEX	HOLLY OAK	LOW	15 GAL	PER PLAN	
⑧	8 QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL	PER PLAN	
⑨	9 QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL	PER PLAN	
⑩	10 QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL	PER PLAN	

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
⑪	1 ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL	3' O.C.	
		Apple Blossom, 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and Red Velvet				
⑫	2 ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL	8' O.C.	
⑬	3 BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL	4' O.C.	
⑭	4 BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL	3' O.C.	
⑮	5 CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL	3' O.C.	
⑯	6 CEANOTHUS THYRSIFLORUS VAR. GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOTHUS	LOW	5 GAL	8' O.C.	
⑰	7 CISTUS CRISPUS	PROSTRATE ROCK ROSE	LOW	5 GAL	4' O.C.	
⑱	8 DAISSYLIRION WHEELERI	SPOON YUCCA	LOW	5 GAL	3' O.C.	
⑲	9 HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	LOW	5 GAL	3' O.C.	
⑳	10 HESPERALOE PARVIFLORA	RED YUCCA	LOW	5 GAL	4' O.C.	
㉑	11 LUPINUS ALBIFRONS	SILVER LUPINE	VERY LOW	5 GAL	5' O.C.	
㉒	12 RIBES VIBURNIFOLIUM	CATALINA CURRANT	VERY LOW	5 GAL	8' O.C.	
㉓	13 SALVIA SPATHACEA	HUMMINGBIRD SAGE	VERY LOW	1 GAL	3' O.C.	
㉔	14 WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	LOW	5 GAL	5' O.C.	
UP TO 24" H						
㉕	15 ARCTOSTAPHYLOS NEVADENSIS X VISCIDA	PINE MAT MANZANITA	LOW	5 GAL	8' O.C.	
㉖	16 ERIOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	LOW	5 GAL	2' O.C.	
㉗	17 FESTUCA IDAHOENSIS	IDAHO FESCUE	VERY LOW	1 GAL	1' O.C.	
㉘	18 IRIS DOUGLASIANA	DOUGLAS IRIS	LOW	1 GAL	3' O.C.	
㉙	19 SISYRINCHIUM BELLUM	BLUE-EYED GRASS	LOW	1 GAL	1+ O.C.	
UP TO 12" H						
㉚	20 BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL	2' O.C.	
㉛	21 CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL	2' O.C.	
㉜	22 FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL	3' O.C.	



KEY MAP - NTS



NO.	REVISION	DATE

PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JJJ  
 DRAWN BY: JJLMB  
 APPROVED BY: RL  
 SHEET TITLE:  
 LANDSCAPE PLANTING PLAN - D  
 SHEET NUMBER:  
**PS-LP-104**  
 18-0565 C 17 of 23

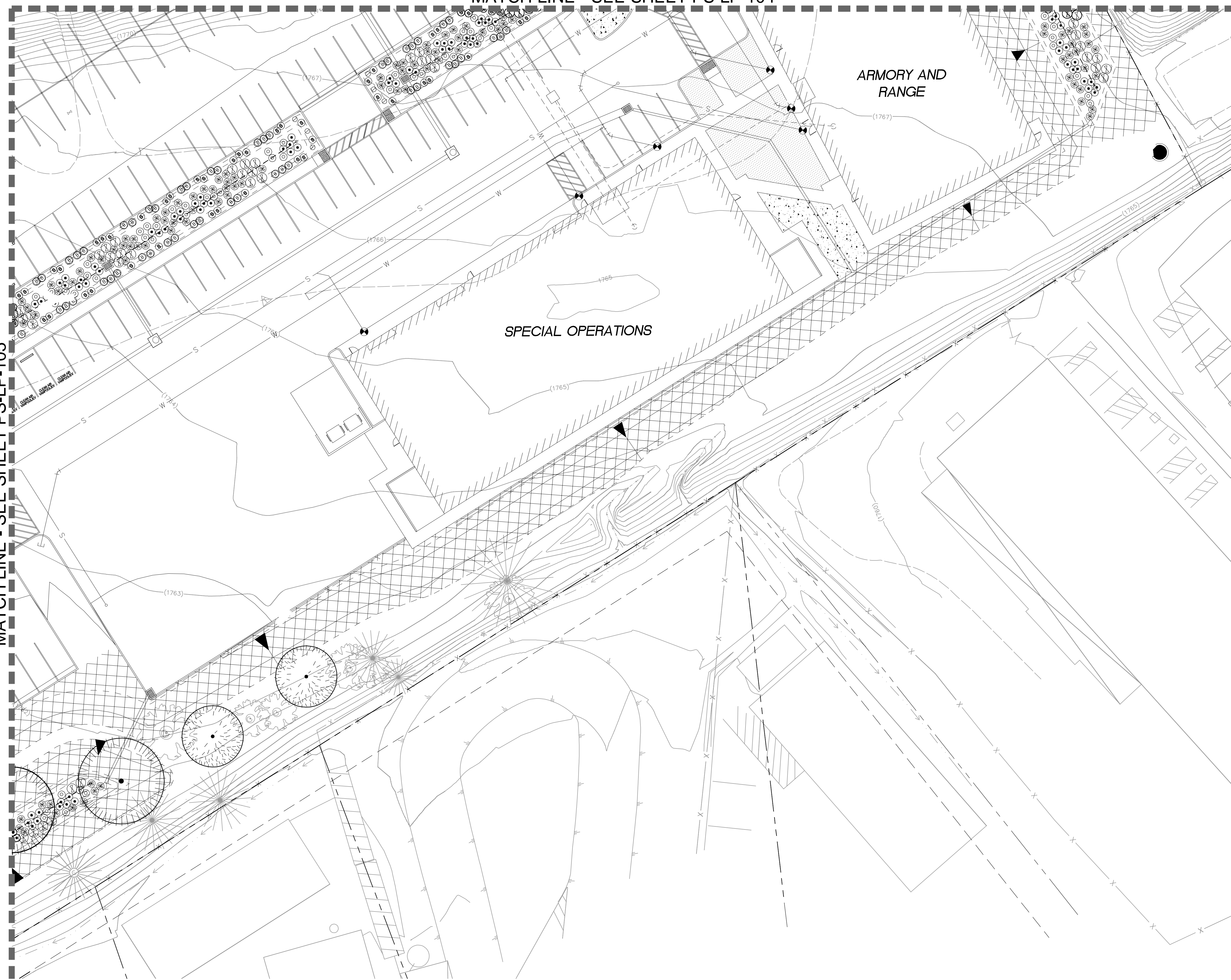






MATCH LINE - SEE SHEET PS-LP-105

MATCH LINE - SEE SHEET PS-LP-104



GENERAL PLANTING NOTES

1. REFER TO THE ACCOMPANYING SPECIFICATIONS FOR SOIL AMENDMENT, FERTILIZER AND ADDITIONAL PLANTING INFORMATION.
2. THE PLANT LIST QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREAS WHICH ARE SHOWN ON THESE PLANS.
3. THE LOCATION OF TREES, SHRUBS AND GROUND COVER SHALL BE ADJUSTED IN THE FIELD AS NECESSARY TO ACCOMMODATE EXISTING UTILITIES, ACTUAL SITE CONDITIONS, ETC.
4. THE CONTRACTOR SHALL ENSURE ALL EXCAVATED PLANT PITS HAVE POSITIVE DRAINAGE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
5. EXISTING TREE(S) TO REMAIN SHALL BE PROTECTED AND PRUNED AS INDICATED IN THE TREE REMOVAL AND PROTECTION PLAN AND ACCOMPANYING SPECIFICATIONS.
6. WHERE TRENCHING AND/OR EXCAVATING IS REQUIRED WITHIN DESIGNATED TREE PROTECTION ZONES, HAND DIGGING AND/OR HAND EXCAVATION SHALL BE EMPLOYED WITH THE PRESENCE OF THE ARBORIST. REFER TO SPECIFICATIONS, DIVISION 1, SECTION 015639, TREE AND PLANT PROTECTION.

GENERAL PLANTING LEGEND

- FOOTHILL HYDROSEED MIX - OPEN AREA NON-IRRIGATED, REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX NON-IRRIGATED, REFER TO PLANT LEGEND.
- EROSION CONTROL HYDROSEED MIX WITH FLOWERS NON-IRRIGATED, REFER TO PLANT LEGEND.
- DECOMPOSED GRANITE MULCH (3/4" FINES)
- DECOMPOSED GRANITE PAVING - (NON STABILIZED)
- LANDSCAPE BOULDERS - (30" H X 36" W X 36" D MIN.)

C/S BROWARD builders

Arrington Watkins Architects  
2024 Opportunity Drive, Suite 150  
Roseville, California 95678  
Telephone: (916) 338-7727  
Fax: (916) 510-3055



PUBLIC SAFETY FACILITY  
200 INDUSTRIAL DRIVE  
DIAMOND SPRINGS, CA 95619



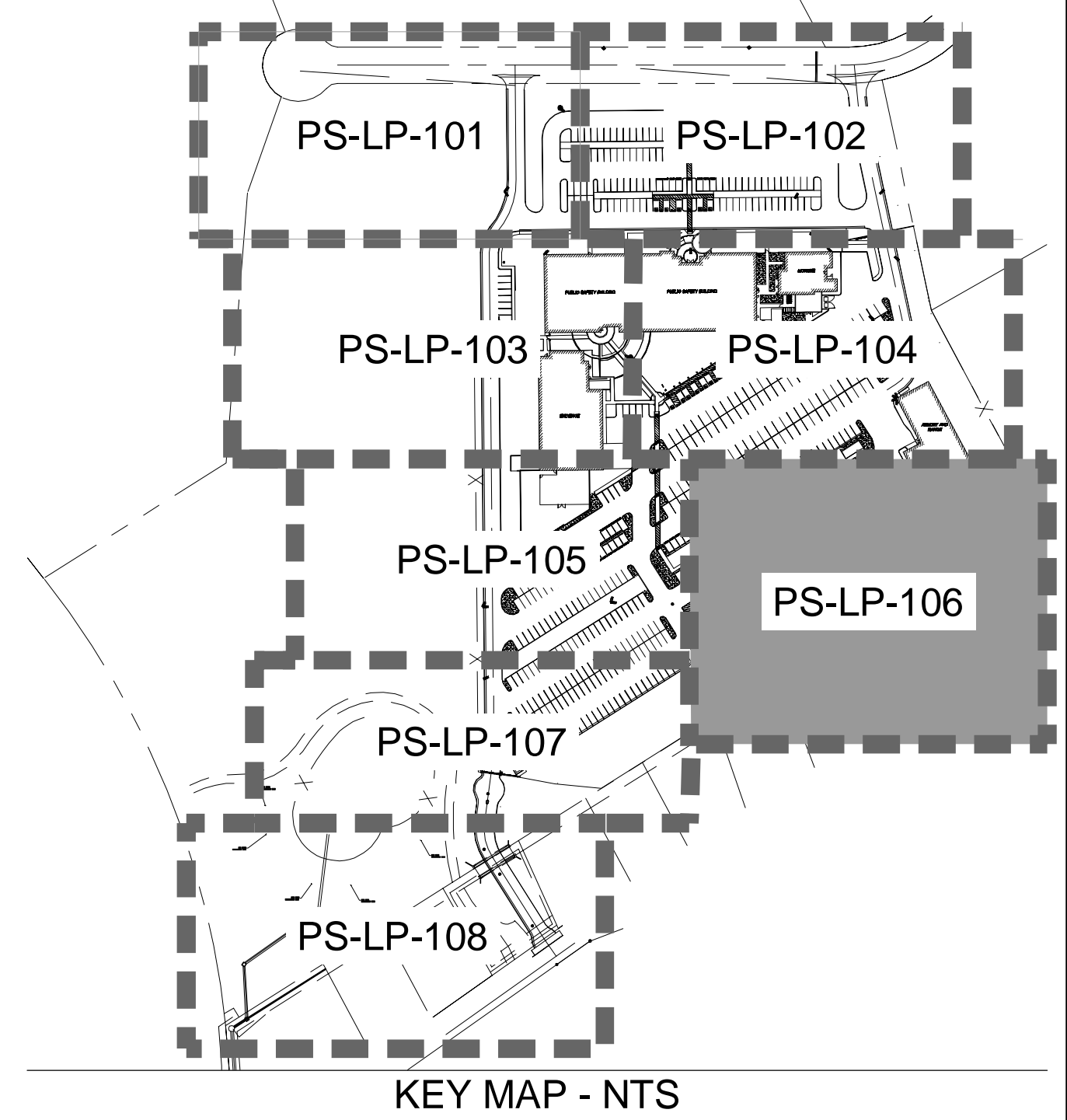
NO.	REVISION	DATE

PROJECT NO.: 30517.00  
DATE: 04-16-2018  
DESIGNED BY: JJJ  
DRAWN BY: JJLMB  
APPROVED BY: RL

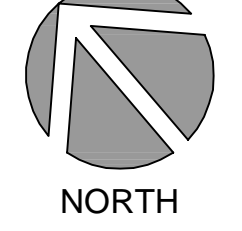
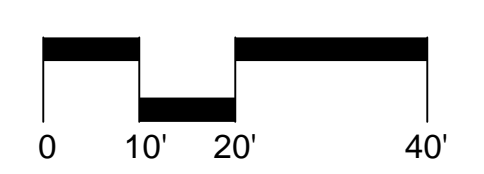
SHEET TITLE:  
LANDSCAPE PLANTING PLAN - F  
SHEET NUMBER:  
**PS-LP-106**

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
1	ACER MACROPHYLLUM	BIG LEAF MAPLE	MOD	15 GAL	PER PLAN	
2	CERCIS OCCIDENTALIS, STANDARD FORM	WESTERN REDBUD	LOW	15 GAL	PER PLAN	
3	PINUS PONDEROSA	PONDEROSA PINE	VERY LOW	15 GAL	PER PLAN	
4	PINUS SABINIANA	FOOTHILL PINE	VERY LOW	15 GAL	PER PLAN	
5	QUERCUS DOUGLASII	BLUE OAK	LOW	15 GAL	PER PLAN	
6	QUERCUS DURATA	LEATHER OAK	VERY LOW	15 GAL	PER PLAN	
7	QUERCUS ILEX	HOLLY OAK	LOW	15 GAL	PER PLAN	
8	QUERCUS LOBATA	VALLEY OAK	LOW	15 GAL	PER PLAN	
9	QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	LOW	15 GAL	PER PLAN	
10	QUERCUS WSLIZENII	INTERIOR LIVE OAK	VERY LOW	15 GAL	PER PLAN	

Type	Botanical Name	Common Name	Water Use	Size	Spacing	Quantity
UP TO 36" H	1	ACHILLEA MILLEFOLIUM	COMMON YARROW	LOW	1 GAL	3' O.C.
		use various colors e.g. Apple Blossom', 'Moon Dust', 'Paprika', 'Sunny Pastels', 'Moonshine', and 'Red Velvet'				
2	ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	LOW	5 GAL	8' O.C.	
3	BERBERIS AQUIFOLIUM 'COMPACTA'	COMPACT OREGON HOLLY	LOW	5 GAL	4' O.C.	
4	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	LOW	1 GAL	3' O.C.	
5	CAREX SPISSA	SAN DIEGO SEDGE	LOW	1 GAL	3' O.C.	
6	Ceanothus thyrsiflorus var. GRISEUS 'YANKEE POINT'	YANKEE POINT CEANOOTHUS	LOW	5 GAL	8' O.C.	
7	CISTUS CRISPUS	PROSTRATE ROCK ROSE	LOW	5 GAL	4' O.C.	
8	DAISY-LIRION WHEELERI	SPOON YUCCA	LOW	5 GAL	3' O.C.	
9	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	LOW	5 GAL	3' O.C.	
10	HESPERALOE PARVIFLORA	RED YUCCA	LOW	5 GAL	4' O.C.	
11	LUPINUS ALBIFRONS	SILVER LUPINE	VERY LOW	5 GAL	5' O.C.	
12	RIBES VIBURNIFOLIUM	CATALINA CURRANT	VERY LOW	5 GAL	8' O.C.	
13	SALVIA SPATHACEA	HUMMINGBIRD SAGE	VERY LOW	1 GAL	3' O.C.	
14	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	LOW	5 GAL	5' O.C.	
UP TO 24" H	ARCTOSTAPHYLOS NEVADENSIS X					
15	VISCIDA	PINE MAT MANZANITA	LOW	5 GAL	8' O.C.	
16	EROPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	LOW	5 GAL	2' O.C.	
17	FESTUCA IDAHOENSIS	IDAHO FESCUE	VERY LOW	1 GAL	1' O.C.	
18	IRIS DOUGLASIANA	DOUGLAS IRIS	LOW	1 GAL	3' O.C.	
19	SISYRINCHIUM BELLUM	BLUE-EYED GRASS	LOW	1 GAL	1+ O.C.	
UP TO 12" H	20	BIDENS FERULIFOLIA 'GOLDMARIE'	GOLD MARIE CARPET TICKSEED	LOW	5 GAL	2' O.C.
21	CAREX TUMULICOLA	FOOTHILL SEDGE	LOW	1 GAL	2' O.C.	
22	FRAGARIA VESCA	WOODLAND STRAWBERRY	LOW	1 GAL	3' O.C.	



Know what's below  
Call before you dig.

















**HYDROZONE CHART/ZONE TOTALS**

NAME OF CITY: El Dorado	POC 1	CONTROLLER C
PROJECT NAME: EDC PSF	WATER METER SIZE: 1.5"	
WATER TYPE: POTABLE	STATIC WATER PRESSURE: 65 PSI	
LOCATION: 200 INDUSTRIAL DR	MAXIMUM PEAK DEMAND: 50 GPM	

**HYDROZONE CHART**

Valve Station Number	Hydrozone	Irrigation Method	Total Valve Circuit Area	% of Total Landscape
C1	ZONE 1	SUBSURFACE DRIP	2,355	4.68%
C2	ZONE 3	ROOT WATERING TUBE	224	0.44%
C3	ZONE 1	SUBSURFACE DRIP	2,394	4.75%
C4	ZONE 2	SUBSURFACE DRIP	926	1.84%
C5	ZONE 1	SUBSURFACE DRIP	2,062	4.09%
C6	ZONE 4	ROOT WATERING TUBE	96	0.19%
C7	ZONE 2	SUBSURFACE DRIP	787	1.56%
C8	ZONE 1	SUBSURFACE DRIP	1,251	2.48%
C9	ZONE 1	SUBSURFACE DRIP	133	0.26%
C10	ZONE 1	SUBSURFACE DRIP	1,657	3.29%
C11	ZONE 1	SUBSURFACE DRIP	96	0.19%
C12	ZONE 1	SUBSURFACE DRIP	826	1.64%
C13	ZONE 1	SUBSURFACE DRIP	3,099	6.15%
C14	ZONE 1	SUBSURFACE DRIP	1,925	3.82%
C15	ZONE 1	SUBSURFACE DRIP	2,684	5.33%
C16	ZONE 1	SUBSURFACE DRIP	1,340	2.66%
C17	ZONE 2	SUBSURFACE DRIP	311	0.62%
C18	ZONE 1	SUBSURFACE DRIP	128	0.25%
C19	ZONE 2	SUBSURFACE DRIP	1,045	2.07%
C20	ZONE 2	SUBSURFACE DRIP	1,284	2.55%
C21	ZONE 1	SUBSURFACE DRIP	3,728	7.40%
C22	ZONE 1	SUBSURFACE DRIP	1,460	2.90%
C23	ZONE 1	SUBSURFACE DRIP	1,065	2.11%
C24	ZONE 1	SUBSURFACE DRIP	1,013	2.01%
C25	ZONE 1	SUBSURFACE DRIP	457	0.91%
C26	ZONE 3	ROOT WATERING TUBE	64	0.13%
C27	ZONE 2	SUBSURFACE DRIP	520	1.03%
C28	ZONE 3	ROOT WATERING TUBE	96	0.19%
C29	ZONE 2	SUBSURFACE DRIP	1,726	3.43%
C30	ZONE 2	SUBSURFACE DRIP	1,663	3.30%
C31	ZONE 2	SUBSURFACE DRIP	876	1.74%
C32	ZONE 1	SUBSURFACE DRIP	562	1.12%
C33	ZONE 2	SUBSURFACE DRIP	1,153	2.29%
C34	ZONE 1	SUBSURFACE DRIP	921	1.83%
C35	ZONE 2	SUBSURFACE DRIP	1,186	2.35%
C36	ZONE 2	SUBSURFACE DRIP	1,069	2.12%
C37	ZONE 1	SUBSURFACE DRIP	2,854	5.67%
C38	ZONE 2	SUBSURFACE DRIP	1,371	2.72%
C39	ZONE 2	SUBSURFACE DRIP	1,397	2.77%
C40	ZONE 3	ROOT WATERING TUBE	128	0.25%
C41	ZONE 2	SUBSURFACE DRIP	1,635	3.25%
C42	ZONE 5	DRIP	400	0.79%
C43	ZONE 2	SUBSURFACE DRIP	404	0.80%
<b>TOTAL:</b>			<b>50,371</b>	<b>100.0%</b>

**ZONE TOTALS**

Hydrozone	Hydrozone Description	Plant Factor	Total Square Feet	% of Landscape
ZONE 1 SHRUBS	LOW WATER USE SUBSURFACE DRIP	0.3	32,010	63.55%
ZONE 2 STORM	LOW WATER USE SUBSURFACE DRIP	0.3	17,353	34.45%
ZONE 3 TREES	LOW WATER USE ROOT WATERING TUBE	0.3	512	1.02%
ZONE 4 TREES	MEDIUM WATER USE ROOT WATERING TUBE	0.5	96	0.19%
ZONE 5 MIT TREES	LOW WATER USE DRIP	0.3	400	0.79%
<b>TOTAL:</b>			<b>50,371</b>	<b>100.0%</b>

**WATER ALLOWANCES/ WATER USE COMPARISON**

POC	CONTROLLER	NAME OF CITY: El Dorado
P1	C	PROJECT NAME: EDC PSF
		WATER METER SIZE: 1.5"
		WATER TYPE: POTABLE
		STATIC WATER PRESSURE: 65 PSI
		WATER METER LOCATION: INDUSTRIAL DR
		MAXIMUM PEAK DEMAND: 50 GPM

**MAXIMUM APPLIED WATER ALLOWANCE (MAWA)**

FORMULA:  
 MAWA = (Eto)(0.62)[(0.45 x LA) + (0.55 x SLA)] = GALLONS PER YEAR

46.30 = REFERENCE EVAPOTRANSPIRATION IN INCHES PER YEAR (SOURCE: CIMIS)  
 0.62 = CONVERSION FACTOR TO GALLONS PER SQUARE FEET  
 0.45 = EVAPOTRANSPIRATION ADJUSTMENT FACTOR AND IRRIGATION EFFICIENCY (ETAF)  
 LA = LANDSCAPE AREA INCLUDING SLA (SQ. FT.)  
 0.55 = ADDITIONAL Eto ADJUSTMENT FACTOR FOR SPECIAL LANDSCAPE AREAS  
 SLA = SPECIAL LANDSCAPE AREA (SQ. FT.)

**SUMMARY OF LANDSCAPE AREA BY IRRIGATION METHOD OR SLA**

0	Overhead Irrigation Landscape Area (ft <sup>2</sup> )
50,371	Drip/Bubbler Irrigation Landscape Area (ft <sup>2</sup> )
	SLA (ft <sup>2</sup> )
<b>Total Landscape Area:</b>	<b>50,371</b>

**RESULTS**

MAWA = (Eto) x (0.62) x [(0.45 x LA) + ((1.0 - 0.55) x SLA)]	<b>650,677 Gallons</b>
	86,982.93 Cubic Feet
	869.83 HCF
	2.00 Acre-feet
	0.65 Millions of Gallons

**ESTIMATED TOTAL WATER USE (ETWU)**

FORMULA:  
 ETWU = (Eto) x (0.62) x [(ETAF x Landscape Area)]

46.30 = REFERENCE EVAPOTRANSPIRATION IN INCHES PER YEAR (SOURCE: CIMIS)  
 0.62 = CONVERSION FACTOR TO GALLONS PER SQUARE FEET  
 VARIES = PF (WUCOLS IV)  
 0.3 LOW WATER-USE PLANTS  
 0.5 MEDIUM WATER-USE PLANTS  
 0.7 HIGH WATER-USE PLANTS  
 VARIES = IE (IRRIGATION EFFICIENCY)  
 0.75 STREAM ROTOR  
 0.81 DRIP/BUBBLER  
 VARIES = ETAF (ET ADJUSTMENT FOR PLANT FACTORS AND IRRIGATION EFFICIENCY)  
 SLA ETAF = 1.0  
 VARIES = LANDSCAPE AREA FOR SPECIFIC HYDROZONE

**DETAILED SUMMARY BY HYDROZONE TYPE**

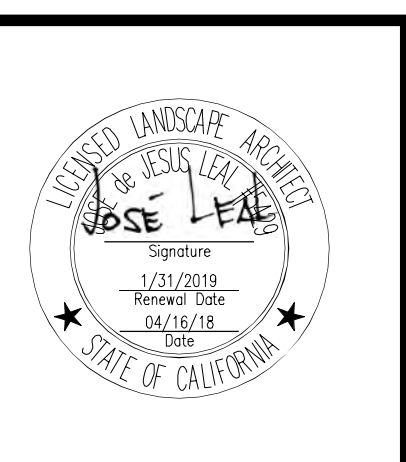
Hydrozone Type	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (sf <sup>2</sup> )	ETAF x Area	ETWU
<b>Regular Landscape Area</b>							
Shrubs/Gc (Low Water-Use)	0.3	DRIP GRID	0.81	0.37	32,010	11,856	340,326
Storm Water PI (Low Water-Use)	0.3	DRIP GRID	0.81	0.37	17,353	6,427	184,495
Trees (Low Water-Use)	0.3	ROOT WATERING TUBE	0.81	0.37	512	190	5,444
Trees (Medium Water-Use)	0.5	ROOT WATERING TUBE	0.81	0.62	96	59	1,701
Trees (Medium Water-Use)	0.3	ROOT WATERING TUBE	0.81	0.37	400	148	4,253
<b>Totals:</b>					<b>50,371</b>	<b>18,680</b>	<b>536,217</b>

**Special Landscape Areas**

NONE	1.0	0	0	0
		As Noted Above		
<b>Totals:</b>				<b>0</b>

**RESULTS**

ETWU = (Eto) x (0.62) x [(ETAF x Landscape Area)]	<b>536,217 Gallons</b>
	71,681.85 Cubic Feet
	716.82 HCF
	1.65 Acre-feet
	0.54 Millions of Gallons
	<b>650,677 MAWA</b>
	114,460 Surplus



**PUBLIC SAFETY FACILITY  
 200 INDUSTRIAL DRIVE  
 DIAMOND SPRINGS, CA 95619**



NO.	REVISION	DATE

PROJECT NO.: 30517.00  
 DATE: 04-16-2018  
 DESIGNED BY: JLL  
 DRAWN BY: JLL/DV  
 APPROVED BY: RL  
**SHEET TITLE:**  
 LANDSCAPE PLANTING  
 MWEO COMPLIANCE

**SHEET NUMBER:**  
**PS-LP-801**

