


ABBREVIATIONS:					
#	Number	FD	Floor Drain	OC	On Center
&	And	FDN	Foundation	OD	Outside Diameter
@	At	FF	Finish Floor	OE	Or Equal
*(#)	Quantity	FFE	Finish Floor Elevation	OPP	Opposite
AC	Asphalt Concrete	FG	Finish Grade	PA	Planting Area
AD	Area Drain	FH	Fire Hydrant	PI	Point of Intersection
AGG	Aggregate	FL	Flow Line	PIP	Protect in Place
APPROX	Approximate	FND	Foundation	PL	Property Line
ARCH	Architect(ural)	FOC	Face of Curb	POC	Point of Connection
		FOF	Face of Finish	POVC	Point of Vertical Curve
BC	Bottom of Curb	FOS	Face of Step	PREP	Preparation
BL	Base Line	FOW	Face of Wall	PSI	Pounds per Square Inch
BLDG	Building	FS	Finish Surface	PVC	Polyvinyl Chloride
BOC	Back of Curb	FTG	Footing	PVI	Point of Vertical Intersection
BOR	Bottom of Ramp			PVMT	Pavement
BOS	Bottom of Slope	G	Gas		
BOT	Bottom	GA	Gauge	R/W, ROW	Right of Way
BS	Bottom of Step	GALV	Galvanized	RAD	Radius
BW	Bottom of Wall	GB	Grade Break	REF	Reference
BYND	Beyond	GC	General Contractor	REINF	Reinforced
		GR	Grade	REQ	Required
				REV	Revision
CAB	Crushed Aggregate Base			S	South
CB	Catch Basin	HB	Hose Bib	SCH	Schedule
CFS	Cubic Feet per Second	HC	Handicap	SF	Square Feet
CHNL	Channel	HDR	Header	SHT	Sheet
CIP	Cast In Place	HORIZ	Horizontal	SIM	Similar
CJ	Control Joint	HP	High Point	SPEC	Specified OR Specification
CLR	Clearance	HR	Hour	SQ	Square
CMP	Corrugated Metal Pipe	HT	Height	SS	Stainless Steel
CMU	Concrete Masonry Unit	ID	Inside Diameter	STA	Station
CONC	Concrete	IJ	Isolation Joint	STD	Standard
		IN	Inch	STL	Steel
DET	Detail	INT	Interior	STRUCT	Structure or Structural
DI	Drain Inlet	INV	Invert	SW	Sewer
DIA	Diameter			TBD	To Be Determined
DIM	Dimension	JB	Joint	TC	Top of Curb
DN	Down	LB	Pound	TD	Top of Drain
DR	Door	LF	Linear Feet	TF	Top of Fence
DWG	Drawing	LO	Low	TOS	Top of Slope
		LOW	Limit of Work	TS	Top of Step
E	East	LP	Low Point	TW	Top of Wall
EA	Each			TYP	Typical
EJ	Expansion Joint	MAX	Maximum	UNO	Unless Noted Otherwise
EL	Elevation	MIN	Minimum	VERT	Vertical
ELEC	Electrical	MISC	Miscellaneous	VIF	Verify In Field
ELEV	Elevator or Elevation			W	West
ENCL	Enclosure	N	North	W/	With
EQ	Equal	NIC	Not In Contract	W/O	Without
EX OR (E)	Existing	NO	Number	WP	Waterproof
EXT	Exterior	NOM	Nominal		
		NTS	Not To Scale		

NOTES:

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE (AB 1881) AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN"

02-01-2023

LANDSCAPE ARCHITECTDATE

**Permit cannot be finaled until certification form is completed and returned.

PROJECT MEMBERS

COUNTY OF VENTURA:
County of Ventura
11201 Riverbank Drive, Suite A1
Ventura, CA 93004
Parks Manager: Jeri Cooper
T: 805.654.3968
Parks Deputy Director: Colter Chisum
T: 805.654.3945

GROWING WORKS:
Growing Works - Turning Point Foundation
1736 S Lewis Rd
Camarillo, CA 93012
Nursery Manager: Jenn Rodriguez
T: 805.914.4857

LANDSCAPE ARCHITECT:
Pacific Coast Land Design, Inc.
461 East Main Street
Ventura, CA 93001
T: 805.644.9697F: 805.644.9742
Contact: Mike Zielsdorf
e-mail: mike@pc-ld.com

SHEET INDEX	
Sheet Number	Sheet Title
CS-0.00	COVER SHEET
LC-0.01	CONSTRUCTION NOTES + SCHEDULES
LC-0.02	CONSTRUCTION NOTES + SCHEDULES
LC-0.03	TREE PROTECTION PLAN
LC-0.04	PLANT COMMUNITY PLAN
LC-1.01	LANDSCAPE CONSTRUCTION PLAN
LC-1.02	LANDSCAPE CONSTRUCTION PLAN
LC-1.03	LANDSCAPE CONSTRUCTION PLAN
LC-1.04	LANDSCAPE CONSTRUCTION PLAN
LC-1.05	LANDSCAPE CONSTRUCTION PLAN
LC-1.06	LANDSCAPE CONSTRUCTION PLAN
LC-1.07	LANDSCAPE CONSTRUCTION PLAN
LC-1.08	LANDSCAPE CONSTRUCTION PLAN
LC-2.01	CONSTRUCTION DETAILS
LI-0.01	IRRIGATION NOTES + SCHEDULES
LI-1.01	IRRIGATION PLAN
LI-2.01	IRRIGATION DETAILS
LI-2.02	IRRIGATION DETAILS
LI-3.01	IRRIGATION CALCULATIONS
LI-3.02	IRRIGATION CALCULATIONS
LS-1.01	LANDSCAPE SPECIFICATIONS
LS-1.02	LANDSCAPE SPECIFICATIONS
LS-1.03	LANDSCAPE SPECIFICATIONS
LS-1.04	LANDSCAPE SPECIFICATIONS
LS-1.05	LANDSCAPE SPECIFICATIONS
LS-1.06	LANDSCAPE SPECIFICATIONS

Landscape Construction Documents for:

County of Ventura GSA

Lewis Road Park

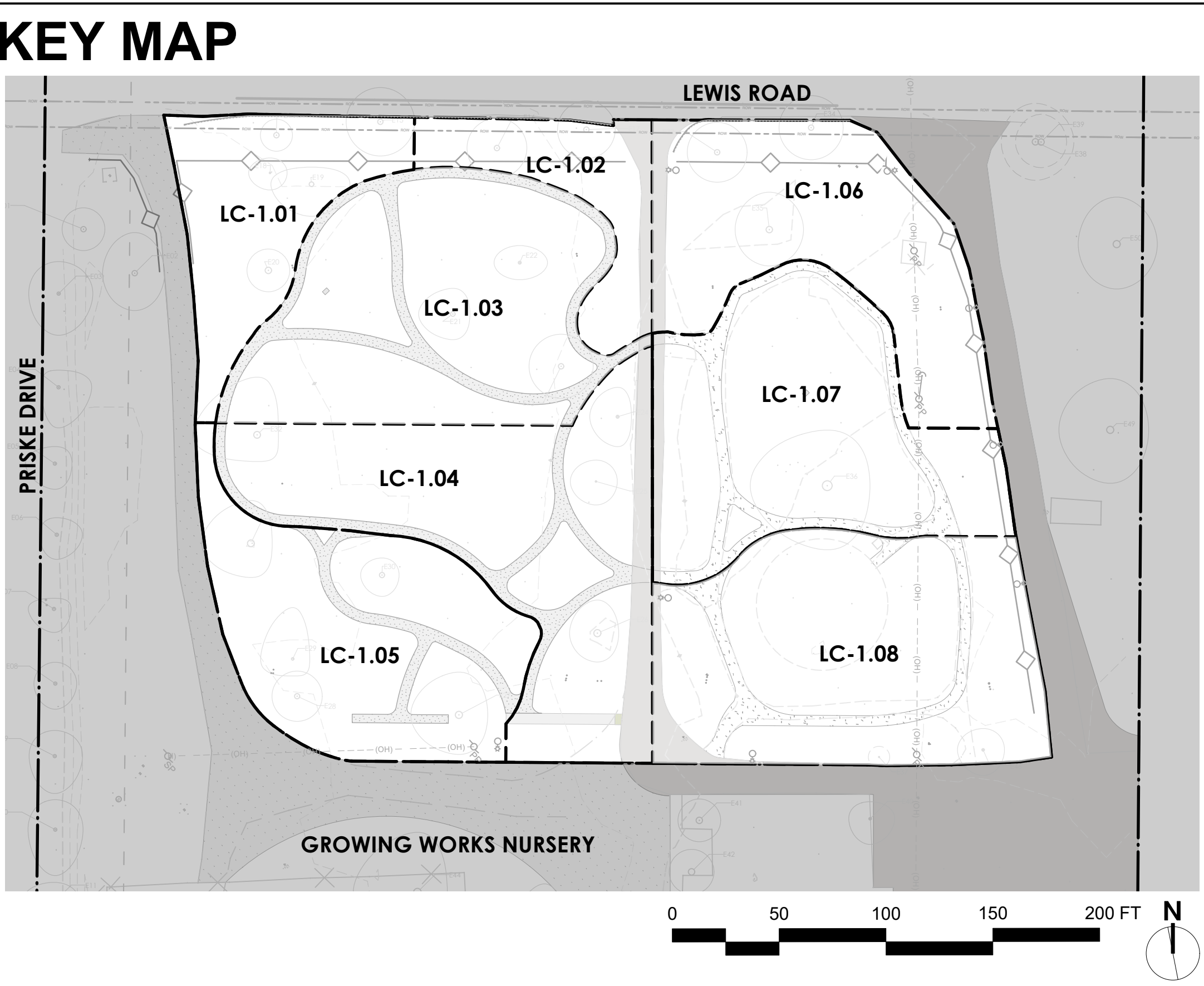
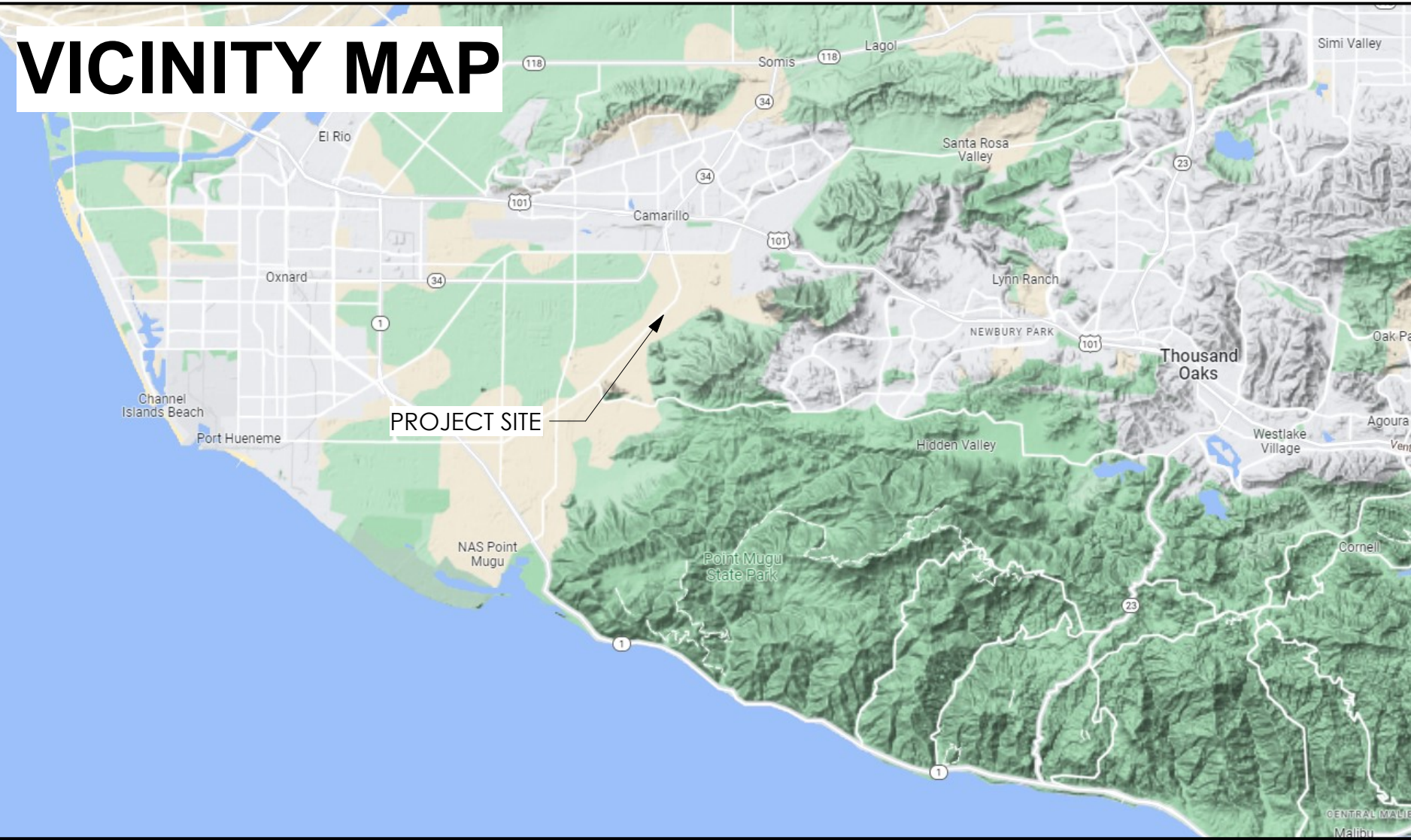
Camarillo, CA 93012

Prepared for:

County of Ventura GSA

11201 Riverbank Drive, Suite A1

Ventura, CA 93004



- GENERAL NOTES
1. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE COUNTY OF VENTURA DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS AND STANDARD DETAILS, THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), AND THE CONTRACT DOCUMENTS, IF ANY. ALL REFERENCED SPECIFICATIONS AND DETAILS SHALL BE PART OF THE CONTRACT DOCUMENTS, AND STANDARD PLANS AND SPECIFICATIONS ARE MADE A PART HEREOF AS IF SPELLED OUT IN THEIR ENTIRETY HEREON.

2. ALL WORK ON THIS PROJECT SHALL COMPLY WITH THE LAST EDITION CALIFORNIA BUILDING CODE.

3. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICT BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE OWNER REPRESENTATIVE AND THE LANDSCAPE ARCHITECT OF RECORD WHO WILL DETERMINE THE INTENT OF THE DRAWINGS. THE CONTRACTOR SHALL PREPARE A STAKING PLAN AND SURVEY TO VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER REPRESENTATIVE FORTY- EIGHT (48) HOURS PRIOR TO THE START OF WORK.

4. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA 1-800-227-2600) AND REQUEST THAT UTILITY OWNERS MARK OR OTHERWISE INDICATE THE FACILITIES ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.

5. ALL REQUIRED PERMITS AND NECESSARY COUNTY BUSINESS LICENSE(S) SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION AND BE PRESENT ON SITE AT ALL TIMES.

6. DURING ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBSERVE, FOLLOW AND IMPLEMENT ALL THE REQUIREMENTS OF THE NPDES AND STORMWATER POLLUTION PREVENTION PROGRAM AND KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE PROJECT REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.

7. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL OWNER AND COUNTY APPROVED CHANGES AND SUBMIT THIS RECORD TO THE OWNER REPRESENTATIVE. THE CONTRACTOR SHALL ALSO COORDINATE TRANSFERRING "AS-BUILT" INFORMATION ON THE CONTRACT DRAWINGS AND DELIVER THE CERTIFIED "AS-BUILT" PLANS TO THE OWNER REPRESENTATIVE BEFORE THE RELEASE FOR OCCUPANCY OR FINAL ACCEPTANCE OF THE PROJECT SHALL BE FILED.

8. THE CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID INJURY TO EXISTING IMPROVEMENTS OR FACILITIES, UTILITY FACILITIES, ADJACENT PROPERTY, AND TREES AND SHRUBBERY THAT ARE NOT TO BE REMOVED. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE OWNER REPRESENTATIVE. EXISTING TREES AND SHRUBS TO REMAIN AND TO BE PROTECTED SHOULD BE MARKED DURING A JOB WALK WITH THE CONTRACTOR AND THE LANDSCAPE ARCHITECT.

9. THE CONTRACTOR SHALL SO CONDUCT THEIR OPERATIONS AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC AND SHALL HAVE UNDER CONSTRUCTION NO GREATER LENGTH OR AMOUNT OF WORK THAN THEY CAN PROSECUTE PROPERLY WITH DUE REGARD TO THE RIGHTS OF THE PUBLIC. CONVENIENT ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK SHALL BE MAINTAINED AND TEMPORARY CROSSINGS SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION. NO MORE THAN ONE CROSSING, INTERSECTION, STREET OR ROAD SHALL BE CLOSED AT ANY ONE TIME. ACCESS TO ADJACENT RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.


10.UNTIL THE ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL HAVE THE RESPONSIBLE CHARGE AND CARE OF THE WORK AND OF THE MATERIALS TO BE USED THEREIN (INCLUDING MATERIALS FOR WHICH THEY HAVE RECEIVED PARTIAL PAYMENT OR MATERIALS WHICH HAVE BEEN FURNISHED BY THE COUNTY OR OWNER) AND SHALL BEAR THE RISK OF INJURY, LOSS, OR DAMAGE TO ANY PART THEREOF BY THE ACTION OF ELEMENTS OR FROM ANY OTHER CAUSE, WHETHER ARISING FROM THE EXECUTION OR FROM THE NONEXECUTION OF THE WORK.

11.DESIGNATE AND KEEP ON THE PROJECT AT ALL TIMES WHILE WORK IS BEING PERFORMED A COMPETENT SUPERINTENDENT WHO SHALL NOT BE REPLACED WITHOUT A WRITTEN NOTICE TO THE OWNER REPRESENTATIVE. THE SUPERINTENDENT WILL BE THE CONTRACTOR'S REPRESENTATIVE AT THE SITE AND SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. ALL COMMUNICATIONS GIVEN TO THE SUPERINTENDENT SHALL BE AS BINDING AS IF GIVEN TO THE CONTRACTOR. DURING PERIODS WHEN THE WORK IS SUSPENDED, MAKE APPROPRIATE ARRANGEMENTS FOR ANY EMERGENCY WORK WHICH MAY BE REQUIRED.

12.SECTION 4-1.4 "TEST OF MATERIALS" OF THE "GREENBOOK" SHALL BE MODIFIED TO READ "THAT THE COST OF ALL INITIAL TESTING AND RETESTING TO BE PERFORMED UNDER THE DIRECTION OF THE OWNER REPRESENTATIVE SHALL BE BORNE BY THE CONTRACTOR."

13.IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL STATE, FEDERAL AND OTHER LAWS, RULES, REGULATIONS, AND ORDERS RELATING TO SAFETY OF WORKERS AND ALL OTHERS. THIS MAY INCLUDE THE ISSUANCE OF PERSONAL PROTECTIVE EQUIPMENT.

14.ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT HE AGREES TO ASSUME THE LIABILITY, AND AGREES TO HOLD THE OWNER AND CITY HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE OWNER OR CITY, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, OR LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

**Pacific Coast Land Design, Inc.**
Landscape Architecture • Urban Design • Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697www.pc-ld.com

client:

COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date:02/01/2023

drawn by:EEB

checked by:BM

PCLD project #:21-033


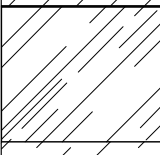
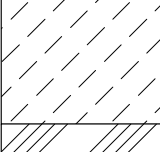
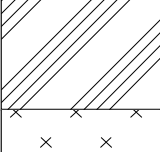
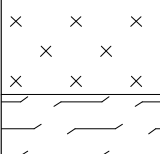
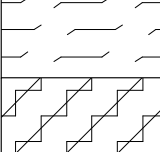
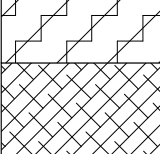
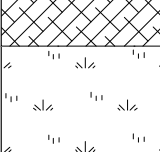
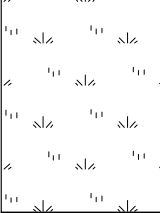
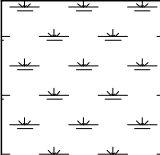
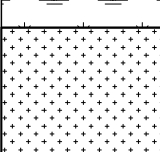
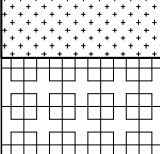
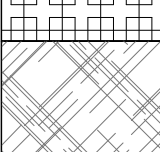
File Name:21-033_L-Project.vwx



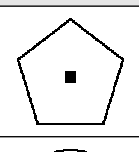
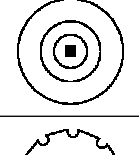
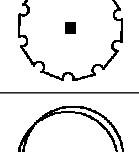
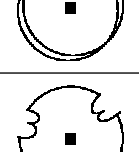

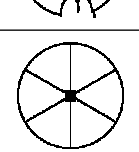
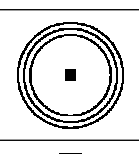
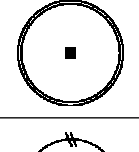
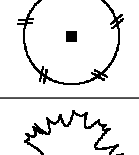
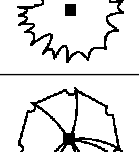
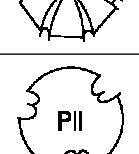
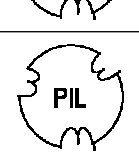
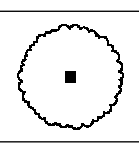
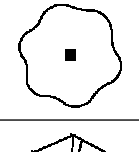
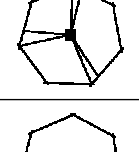
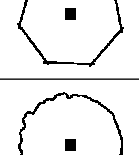
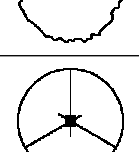

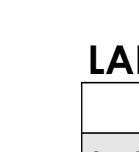
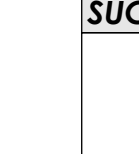
COVER SHEET

CS-0.00

MASTER PLANT SCHEDULE-GROUNDCOVERS

SYMBOL	QTY	LATIN NAME	COMMON NAME	WUCOLS	SIZE
GROUNDCOVERS AND HYDROSEED					
	826 SF	Achillea millefolium	Common Yarrow	L	1 Gal /24" O.C.
	482 SF	Aquilegia formosa	Western Columbine	M	1 Gal /24" O.C.
	598 SF	Carex spectabilis	Showy Sedge	L	1 Gal /24" O.C.
	717 SF	Epilobium Mix (33/33/33 Epilobium canum 'Catalina', Epilobium canum, Epilobium canum 'Sierra Salmon')	California Fuchsia	L	1 Gal /36" O.C.
	422 SF	Eschscholzia californica	California Poppy	VL	4" Pot /18" O.C.
	608 SF	Heuchera 'Canyon Delight'	Canyon Delight Coral Bells	L	1 Gal /18" O.C.
	541 SF	Heuchera maxima	Island Alum Root	L	1 Gal /18" O.C.
	540 SF	Lupinus albus	Silver Lupine	VL	FLAT /36" O.C.
	8,604 SF	Native Meadow Mix (Achillea millefolium, Clarkia unguiculata, Collinsia heterophylla, Eschscholzia californica, Festuca idahoensis, Festuca microstachys, hordeum brachyantherum, Gilia capitata, Gilia tricolor, Lasthenia californica, Layia platyglossa, Lupinus microcarpus densiflorus, Lupinus succulentus, Melica californica, Nemophila maculate, Nemophila menziesii, Phacelia campanularia, Sisyrinchium bellum, Stipa pulchra)	Available from S & S Seeds, Carpinteria. www.ssseeds.com (805) 684-0436	L	SEED
	3,275 SF	Oak Woodland Full Sun Grass Mix (Festuca microstachys, Festuca idahoensis, Elymus condensatus 'Canyon Prince', Stipa pulchra)	Available from S & S Seeds, Carpinteria. www.ssseeds.com (805) 684-0436	L	SEED
	5,116 SF	Oak Woodland Part Shade Grass Mix (Agrostis pallens, Melica californica, Sisyrinchium bellum, Stipa lepida, Stipa cernua)	Available from S & S Seeds, Carpinteria. www.ssseeds.com (805) 684-0436	L	SEED
	538 SF	Penstemon centranthifolius	Scarlet Bugler	L	1 Gal/12" O.C.
	610 SF	Verbena Mix (50/50 Verbena lasiostachys var. scabrida, Verbena lilacina 'Paseo Rancho')	Verbena	VL	1 Gal/36" O.C.

MASTER PLANT SCHEDULE-TREES

SYMBOL	QTY	LATIN NAME	COMMON NAME	WUCOLS	SIZE
TREES					
	2	Acacia smallii	Sweet Acacia	L	24" box
	1	Aesculus californica	California Buckeye	VL	24" box
	1	Alnus rhombifolia	White Alder	H	24" box
	2	Arbutus 'Marina'	Marina Strawberry Tree	L	24" box
	4	Arctostaphylos densiflora 'Howard McMinn'	Howard McMinn Manzanita	L	24" box
	1	Arctostaphylos glauca	Big Berry Manzanita	L	24" box
	4	Cercidium x 'Desert Museum'	Desert Museum Palo Verde	VL	24" box
	14	Cercis occidentalis	Western Redbud	L	24" box
	9	Chilopsis linearis ssp.	Desert Willow Species	VL	24" box
	13	Garrya elliptica	Coast Silk Tassel	L	24" box
	7	Lyonothamnus floribundus ssp. asplenifolius	Catalina Ironwood	L	24" box
	1	Platanus racemosa	California Sycamore	M	24" box
	1	Prunus ilicifolia	Hollyleaf Cherry	VL	24" box
	2	Prunus ilicifolia ssp. lyonii	Catalina Cherry	L	24" box
	12	Quercus agrifolia	Coast Live Oak	VL	24" box
	2	Quercus chrysolepis	Canyon Live Oak	L	24" box
	1	Quercus douglasii	Blue Oak	VL	24" box
	1	Quercus engelmannii	Engelmann Oak	VL	24" box
	3	Quercus lobata	Valley Oak	M	24" box
	1	Umbellularia californica	California Bay	L	24" box

CONTRACTOR TO PROVIDE THE FOLLOWING PLANT QUANTITIES TO BE PLACED IN THE FIELD BY LANDSCAPE ARCHITECT FOR THE LABYRINTH.

LABYRINTH PLANT SCHEDULE

QTY	LATIN NAME	COMMON NAME	WUCOLS	SIZE
SUCCULENTS + GROUNDCOVERS				
35	Achillea millefolium	Common Yarrow	L	1 Gal /24" O.C.
35	Dudleya brittonii	Giant Chalkstick Dudleya	VL	1 Gal /18" O.C.
40	Dudleya lanceolata	Lanceleaf Liveforever	VL	1 Gal /12" O.C.
40	Dudleya traskiae	Santa Barbara Liveforever	VL	1 Gal /12" O.C.
40	Echeveria runyonii 'Topsy Turvy'	N/A	L	1 Gal /12" O.C.

PLANTING NOTES

1. ALL PLANTED AREAS SHALL BE THOROUGHLY RIPPED TO A DEPTH OF 8", USING RIPPER WITH TEETH NO WIDER THAN 12" O.C. WHERE POSSIBLE. THE RIPPING SHOULD BE DONE IN TWO DIRECTIONS TO REDUCE THE COMPACTION WHICH OCCURS AS A RESULT OF CONSTRUCTION.

2. THE CONTRACTOR SHALL COLLECT A MINIMUM OF THREE SOIL SAMPLES FROM NEW PLANTING AREAS FOR AGRONOMIC TESTING & AMENDMENT RECOMMENDATIONS FROM FRUIT GROWERS LAB @ (805) 392-2000. RESULTS SHALL BE TRANSMITTED TO CLIENT AND LANDSCAPE ARCHITECT OF RECORD. SOIL MANAGEMENT REPORT RECOMMENDATIONS SHALL ADDRESS THE FOLLOWING AT A MINIMUM: SOIL TEXTURE, SOIL INFILTRATION RATE, SOIL PH, AND SUGGESTED AMENDMENTS BASED UPON PROPOSED PLANTING PALETTE. SEE SPECIFICATIONS.

3. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OR PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.

4. ALL AMENDMENTS TO BE APPLIED PER SOIL MANAGEMENT REPORT, OR IF NO TECHNIQUE IS SPECIFIED, THEN MIXED TOGETHER AND ROTOTILLED INTO PLANTING AREAS TO A DEPTH OF 6". (UNTIL RESULTS OF SOIL MANAGEMENT REPORT ARE OBTAINED, THE FOLLOWING AMENDMENTS MAY BE USED FOR BID PURPOSES ONLY. RESULTS OF SOILS ANALYSIS SUPERSEDE THESE QUANTITIES):

5 LBS/1000 SF POTASSIUM SULFATE

5 LBS/1000 SF AMMONIUM SULFATE

5 LBS/1000 SF SINGLE SUPERPHOSPHATE OR EQ.

80 LBS/1000 SF AGRICULTURAL GYPSUM

6 CY GENERAL PURPOSE SOIL AMENDMENT

5. BACKFILL PER CY FOR CONTAINER PLANTS (BACKFILL MIX PROVIDED FOR BID PURPOSES ONLY. RESULTS OF SOILS ANALYSIS SUPERSEDE THESE QUANTITIES):

1/4 LB POTASSIUM SULPHATE

1/4 LB AMMONIUM SULPHATE

1/5 LB SINGLE SUPERPHOSPHATE OR EQ.

4 LBS AGRICULTURAL GYPSUM

5 PARTS BY VOLUME NATIVE SOIL

1 PART BY VOLUME AQUINAGA TURF PLUS

6. GRO-POWER 12-8-8, 7-GRAM TABLET, ORGANIC-BASED, 12-MONTH SLOW RELEASE SHALL BE PLACED 2 INCHES DEEP AND 2 INCHES OUTSIDE ROOTBALL: (3) PER 1-GAL; (8) PER 5-GAL; (14) PER 15-GAL; (16) PER 24" BOX AND (18) PER 36" BOX.

7. ALL TREES WITHIN 5 FT. OF PAVEMENT TO HAVE CENTURY PRODUCTS LINEAR CP 2420 'POLYETHYLENE' ROOT BARRIERS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS 1 1/2" OFF BACK OF CURB OR EDGE OF PAVEMENT. ROOT BARRIER TO BE INSTALLED AT BACK OF HARDSCAPE, IN 10 FOOT PANELS CENTERED ON THE TREE TRUNK, (NOT IN CIRCLE AROUND ROOT BALL).

8. PLANT MATERIAL QUANTITIES LISTED FOR CONVENIENCE OF CONTRACTOR. ACTUAL NUMBER OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED.

9. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRADICTIONARY.

10.CONTRACTOR SHALL PROVIDE ES-2 MULCH FROM AGROMIN PREMIUM SOIL PRODUCTS (805) 482.8749. PROVIDE SAMPLE TO LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL.

11. SEE SHEET, LC-2.01 FOR ALL PLANTING DETAILS

12.HYDROSEED AREA SHALL INCLUDE CLEARING AND GRUBBING TO REMOVE ALL EXISTING WEEDS AND VEGETATION PRIOR TO SOIL PREPARATION.

13.HYDROSEED SLURRY COMPONENTS

CONWED 1000 WOOD FIBER MULCH 2000 LB/ACRE;

HYDROPOST PREMIUM COMPOST 1000 LB/ACRE;

ECOLOGY CONTROLS M-BINDER/TACK 100 LB/ACRE;

BIOSOL MIX 7-2-3 ORGANICA FERTILIZER 300 LB/ACRE;

AM 120 MYCORRHIZAL INOCULUM 60 LB/ACRE

14.ESTABLISHED HYDROSEED COVERAGE SHALL NOT HAVE DETERIORATION OR EXPOSED SOIL GREATER THAN 1 SQUARE YARD IN SIZE, AND PROVIDE A MINIMUM OF 80 PERCENT GROUND COVER AS DETERMINED BY THE PROJECT REPRESENTATIVE.

15.CONTRACTOR SHALL PROVIDE & INSTALL STAKED PLANT IDENTIFICATION SIGNS FOR EACH PLANT SPECIES. EMBED STAKE 12" INTO NATIVE SOIL. COORDINATE TEXT LAYOUT AND FINAL SIGN QUANTITY WITH LANDSCAPE ARCHITECT OF RECORD PRIOR TO PURCHASE & INSTALLATION.

CONSTRUCTION NOTES

1. ALL PAVING AREAS SHALL BE GRADED NOT TO EXCEED 2% CROSS SLOPE IN ANY DIRECTION. WALKWAY RUNNING SLOPES SHALL NOT EXCEED 5% SLOPE UNLESS AN ADA RAMP IS PROVIDED.

2. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL CONDUIT, IRRIGATION PIPE, AND UTILITY BOXES TO AVOID CONFLICTS WITH FOOTING, DRAINAGE AREAS, OR INSTALLATION OF AMENITIES SUCH AS BOLLARDS, BOULDERS, BENCHES, AND ROOF DRAINS.

3. FINISH GRADE IN PLANTER AREAS IS 3" BELOW ADJACENT FINISH SURFACE, TYPICAL.

4. LAYOUT OF PATHWAYS SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OF RECORD 24 HOURS PRIOR TO CONSTRUCTION.

5. SEE 'LANDSCAPE CONSTRUCTION PLAN', SHEETS LC-1.01 - LC-1.08 FOR LAYOUT OF HARDSCAPE ELEMENTS & AMENITIES.

DEMOLITION NOTES

1. ALL DEMOLITION MATERIALS, INCLUDING SOIL, THAT ARE TO BE REMOVED FROM THE SITE SHALL BE LEGALLY DISPOSED OF DAILY AT A LOCATION APPROVED BY THE CITY REPRESENTATIVE. DISPOSAL SHALL CONFORM TO ALL COUNTY CONSTRUCTION AND DEMOLITION (C&D) ORDINANCE(S). CONCRETE SHALL BE RECYCLED.

2. PRESERVE AND PROTECT ALL EXISTING CURB AND GUTTER TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING ELEMENTS NOT CALLED OUT FOR REMOVAL. IF THEY ARE DAMAGED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY ITEM AT CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR SHALL CLEAR & GRUB ALL SHRUBS AND ABOVE GROUND IRRIGATION PIPE. PRESERVE AND PROTECT ALL EXISTING TREES, UNLESS NOTED ON THE EXISTING TREE PLAN.

4. ALL AT AND ABOVE GRADE EXISTING NON-PRESSURIZED IRRIGATION PIPE, HEADS, AND RISERS SHALL BE REMOVED. ABANDON IN-PLACE EXISTING SLEEVED PRESSURIZED IRRIGATION UNDER PAVING. DEMOLISH VALVES AND BRASS APPURTENANCES AND RECYCLE AS DIRECTED BY THE OWNER'S REPRESENTATIVE. EXISTING LATERALS MUST BE CUT AND DISPOSED OF.

5. SAW CUTS OF EXISTING PAVEMENT SHALL BE STRAIGHT AND TRUE. CHIPS AND SPALLS TO BE REPAIRED AT CONTRACTORS EXPENSE.

6. EXISTING UTILITIES AND SIGNAGE SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED PER PLAN.

7. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REMOVE SEDIMENTS AND POLLUTANTS.

8. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE, USING STRUCTURAL DRAINAGE CONTROLS TO THE MAXIMUM EXTENT PRACTICAL. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

9. REPORT ANY PLAN DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO ALTERING THE CONDITION.

10.SEE IRRIGATION PLANS FOR BORING, POTHOLING, AND SAWCUTTING FOR IRRIGATION PURPOSES.

Pacific Coast Land Design, Inc.

Landscape Architecture • Urban Design • Environmental Planning

461 East Main Street, Ventura, CA 93001

805.644.9697

www.pc-ld.com

client:

COUNTY OF VENTURA GSA

11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx

LICENSED LANDSCAPE ARCHITECT

MICHAEL ZIELSCOFF

#6044

Signature

10/31/23

Renewal Date

02/01/2023

Date

STATE OF CALIFORNIA

CONSTRUCTION NOTES + SCHEDULES

LC-0.01

2 OF 26

Client:

COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:
No. Date Revision Notes

issues:
No. Date Issue Notes
A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



SHRUBS CONTINUED

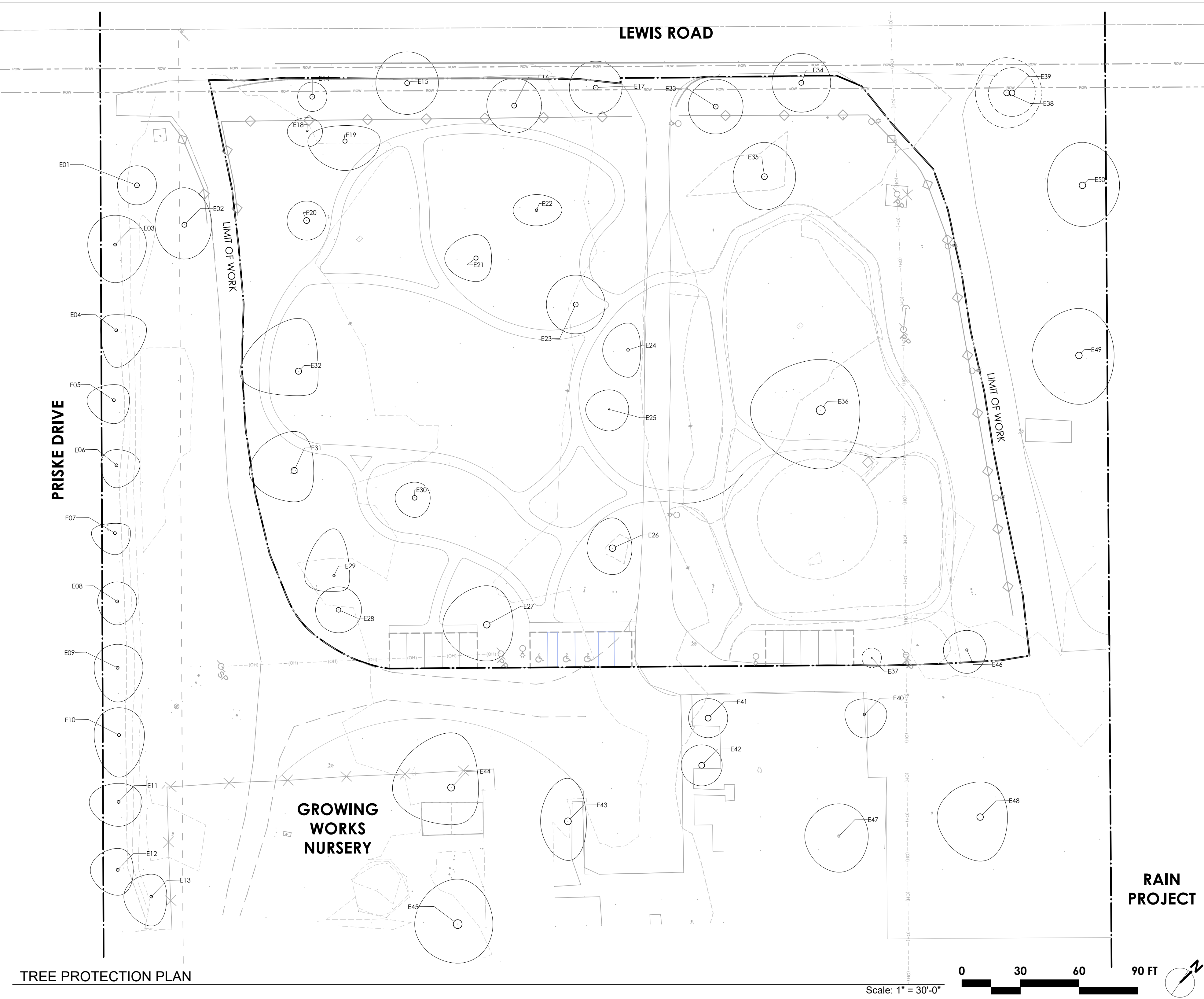
	7	<i>Opuntia oricola</i>	Chaparral Prickly Pear	VL	5 gal
	32	<i>Pachycereus marginatus</i>	Mexican Fence Post Cactus	L	5 gal
	15	<i>Penstemon heterophyllus</i> 'Margarita BOP'	Margarita BOP Beardtongue	L	1 gal
	68	<i>Penstemon spectabilis</i> var. <i>spectabilis</i>	Showy Penstemon	L	1 gal
	19	<i>Peritoma arborea</i>	Bladderpod	VL	5 gal
	6	<i>Perilyte incana</i>	Guadalupe Island Rock Daisy	VL	1 gal
	7	<i>Polystichum munitum</i>	Western Swordfern	M	1 gal
	39	<i>Rhamnus californica</i> 'Eve Case'	Coffeeberry	VL	5 gal
	33	<i>Rhamnus californica</i> 'Mound San Bruno'	San Bruno Coffeeberry	VL	5 gal
	13	<i>Rhus integrifolia</i>	Lemonade Berry	VL	5 gal
	9	<i>Rhus ovata</i>	Sugar Bush	VL	5 gal
	1	<i>Ribes aureum</i> var. <i>gracillimum</i>	Golden Currant	VL	1 gal
	29	<i>Ribes indecorum</i>	White Flowering Currant	VL	1 gal
	6	<i>Ribes malvaceum</i> var. <i>malvaceum</i>	Chaparral Currant	VL	1 gal
	4	<i>Ribes sanguineum</i>	Red Flowering Currant	VL	1 gal
	3	<i>Ribes viburnifolium</i>	Evergreen Currant	VL	1 gal
	18	<i>Romneya coulteri</i>	Matilija Poppy	VL	5 gal
	1	<i>Rosa californica</i>	California Wildrose	L	1 gal
	7	<i>Salvia apiana</i> 'Compacta'	White Sage	VL	1 gal
	20	<i>Salvia</i> 'Bee's Bliss'	Bee's Bliss Sage	L	1 gal
	38	<i>Salvia brandegeei</i>	Santa Rosa Island Sage	VL	1 gal
	9	<i>Salvia</i> 'Celestial Blue'	Celestial Blue Sage	VL	1 gal
	30	<i>Salvia chamaedryoides</i> 'Marine Blue'	Marine Blue Sage	L	1 gal
	17	<i>Salvia clevelandii</i> 'Winifred Gillman'	Winifred Gillman Sage	VL	1 gal
	6	<i>Salvia</i> 'Dara's Choice'	Dara's Choice Creeping Sage	L	1 gal
	4	<i>Salvia leucophylla</i>	Purple Sage	VL	1 gal
	9	<i>Salvia leucophylla</i> 'Point Sal'	Purple Sage	VL	1 gal
	8	<i>Salvia mellifera</i>	Black Sage	VL	1 gal
	54	<i>Salvia</i> 'Pozo Blue'	Pozo Blue Sage	L	1 gal
	36	<i>Salvia sonomensis</i> 'Mrs. Beard'	Mrs. Beard Sage	L	1 gal
	51	<i>Salvia spathacea</i>	Hummingbird Sage	L	1 gal
	22	<i>Sidalcea calycosa</i> ssp. <i>rhizomata</i>	Pt. Reyes Checkerbloom	M	1 gal
	2	<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	Snowberry	L	5 gal
	9	<i>Symphyotrichum chilense</i>	California Aster	VL	1 gal
	65	<i>Teucrium ackermannii</i>	Germander	L	1 gal
	10	<i>Trichostema lanatum</i>	Woolly Blue Curls	VL	1 gal
	20	<i>Venegasia carpesioides</i>	Canyon Sunflower	L	1 gal
	8	<i>Verbena lilacina</i> 'Paseo Rancho'	Paseo Rancho Cedros Island Verbena	L	1 gal
	6	<i>Woodwardia fimbriata</i>	Giant Chain Fern	M	1 gal
	28	<i>Yucca whipplei</i>	Our Lord's Candle	VL	5 gal

SHRUBS CONTINUED

	12	<i>Cercocarpus betuloides</i>	Mountain Mahogany	VL	5 gal
	5	<i>Clematis lasiantha</i>	Chaparral Clematis	VL	5 gal
	8	<i>Constancea nevinii</i>	Nevin's Woolly Sunflower	VL	1 gal
	55	<i>Crassula arborescens</i> ssp. <i>undulatifolia</i> 'Ripple Jade'	Ripple Jade	L	1 gal
	11	<i>Dendromecon harfordii</i>	Island Bush Poppy	VL	5 gal
	19	<i>Echinocactus grusonii</i>	Golden Barrel Cactus	VL	5 gal
	52	<i>Encelia californica</i>	Coast Sunflower	VL	1 gal
	11	<i>Epilobium canum</i> 'Cloverdale'	Cloverdale California fuchsia	VL	1 gal
	27	<i>Erigeron glaucus</i> 'Wayne Roderick'	Beach Aster Wayne Roderick	L	1 gal
	24	<i>Eriodictyon californicum</i>	California Yerba Santa	VL	1 gal
	22	<i>Eriogonum arborescens</i>	Santa Cruz Island Buckwheat	VL	1 gal
	8	<i>Eriogonum cinereum</i>	Ashleaf Buckwheat	VL	1 gal
	10	<i>Eriogonum elongatum</i>	Longstem Buckwheat	VL	1 gal
	50	<i>Eriogonum fasciculatum</i>	California Buckwheat	VL	1 gal
	51	<i>Eriogonum fasciculatum</i> var. <i>Rubescens</i>	Red-Flowered Buckwheat	VL	1 gal
	13	<i>Eriogonum fasciculatum</i> 'Warriner Lytle'	California Buckwheat	VL	1 gal
	3	<i>Eriogonum giganteum</i>	Saint Catherine's Lace	VL	1 gal
	8	<i>Eriogonum parvifolium</i>	Seacliff Buckwheat	VL	1 gal
	62	<i>Eriophyllum lanatum</i> 'Siskiyou'	Saint Catherine's Lace	L	1 gal
	34	<i>Fragaria chiloensis</i>	Beach Strawberry	M	1 gal
	18	<i>Fragaria vesca</i>	Woodland Strawberry	M	1 gal
	24	<i>Galvezia speciosa</i>	Island Bush Snapdragon	VL	1 gal
	3	<i>Grindelia stricta</i> var. <i>platyphylla</i>	Gumweed	L	1 gal
	3	<i>Hazardia detonsa</i>	Northern Island Haplopappus	VL	1 gal
	35	<i>Heteromeles arbutifolia</i>	Toyon	VL	5 gal
	22	<i>Isocoma menziesii</i> var. <i>sedoides</i>	Menzie's Goldenbush	VL	1 gal
	38	<i>Juncus patens</i> 'Elk Blue'	Elk Blue California Gray Rush	L	1 gal
	6	<i>Keckiella cordifolia</i>	Climbing Penstemon	VL	1 gal
	9	<i>Lepechinia calycina</i>	White Pitcher Sage	L	1 gal
	6	<i>Lepechinia hastata</i>	Mexican Pitcher Sage	L	1 gal
	21	<i>Lessingia filaginifolia</i> 'Silver Carpet'	Silver Carpet Beach Aster	L	1 gal
	26	<i>Lomandra hystrix</i> 'Tropicbelle'	Tropic Belle Mat Rush	M	1 gal
	5	<i>Malva assurgentiflora</i>	Malva Rose	L	1 gal
	65	<i>Mimulus aurantiacus</i>	Monkeyflower	VL	1 gal
	20	<i>Monardella villosa</i> 'Russian River'	Russian River Coyote Mint	VL	1 gal
	173	<i>Muhlenbergia dubia</i>	Pine Muhly	L	1 gal
	33	<i>Muhlenbergia rigens</i>	Deer Grass	L	1 gal
	9	<i>Munzothamnus blairii</i>	Blair's Stephanomeria	L	1 gal
	10	<i>Nicotiana quadrivalvis</i>	Indian Tobacco	L	1 gal
	8	<i>Opuntia littoralis</i> and	Coastal Prickly Pear	VL	5 gal

MASTER PLANT SCHEDULE-SHRUBS

SYMBOL	QTY	LATIN NAME	COMMON NAME	WUCOLS	SIZE
SHRUBS					
	13	<i>Abutilon palmeri</i>	Apricot Mallow	L	1 gal
	46	<i>Acmispon glaber</i>	Deer Weed	L	1 gal
	14	<i>Adenostoma fasciculatum</i>	Chamise	L	5 gal
	7	<i>Adiantum jordanii</i>	California maidenhair	M	1 gal
	28	<i>Agave 'Mateo'</i>	Matthew's Agave	L	5 gal
	18	<i>Agave ocahui</i>	Ocahui Agave	L	5 gal
	21	<i>Aloe striata</i> 'Pink Rim'	Pink Rim Coral Aloe	L	1 gal
	101	<i>Aloe wickensii</i>	Geelaalwyn	L	5 gal
	3	<i>Arctostaphylos densiflora</i> 'Harmony'	Harmony Manzanita	L	5 gal
	7	<i>Arctostaphylos edmundsii</i> 'Carmel Sur'	Carmel Sur Little Sur Manzanita	L	5 gal
	8	<i>Arctostaphylos</i> 'John Dourley'	John Dourley Manzanita	L	5 gal
	18	<i>Arctostaphylos pajaroensis</i> 'Paradise'	Paradise Pajaro Manzanita	L	5 gal
	5	<i>Arctostaphylos pajaroensis</i> 'Warren Roberts'	Warren Roberts Manzanita	L	5 gal
	15	<i>Arctostaphylos silvicola</i> 'Ghostly'	Ghostly Manzanita	L	5 gal
	18	<i>Artemisia californica</i>	California Sagebrush	VL	1 gal
	15	<i>Artemisia californica</i> 'Canyon Grey'	California Grey Sagebrush	VL	1 gal
	15	<i>Artemisia californica</i> 'Montara'	Montara Sagebrush	VL	1 gal
	3	<i>Artemisia douglasiana</i>	California Mugwort	M	1 gal
	4	<i>Artemisia nesiotica</i>	Island Sage Brush	L	1 gal
	14	<i>Asclepias eriocarpa</i>	Kotolo Milkweed	VL	1 gal
	8	<i>Asclepias fascicularis</i>	Narrow Leaf Milkweed	VL	1 gal
	8	<i>Asclepias speciosa</i>	Showy Milkweed	VL	1 gal
	7	<i>Atriplex lentiformis</i> ssp. <i>breweri</i>	Quail Bush	VL	5 gal
	7	<i>Baccharis pilularis</i> 'Pigeon Point'	Dwarf Coyote Bush	L	1 gal
	11	<i>Baccharis pilularis</i> 'Twin Peaks'	Dwarf Coyote Bush	L	1 gal
	181	<i>Bouteloua gracilis</i> 'Blonde Ambition'	Blonde Ambition Ornamental Grass	L	1 gal
	65	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Foerster's Feather Reed Grass	L	1 gal
	22	<i>Calliandra californica</i>	Boja Fairy Duster	VL	1 gal
	18	<i>Carex spectabilis</i>	Showy Sedge	M	1 gal
	44	<i>Carpenteria californica</i>	Bush Anemone	L	5 gal
	8	<i>Ceanothus griseus horizontalis</i> 'Yankee Point'	Yankee Point California Lilac	L	5 gal
	3	<i>Ceanothus</i> 'Joyce Coulter'	Joyce Coulter Mountain Lilac	L	5 gal
	7	<i>Ceanothus</i> 'Julia Phelps'	Julia Phelps Mountain Lilac	L	5 gal
	7	<i>Ceanothus maritimus</i> 'Point Sierra'	Maritime Ceanothus	L	5 gal
	5	<i>Ceanothus maritimus</i> 'Popcorn'	Popcorn Mountain Lilac	L	5 gal
	8	<i>Ceanothus maritimus</i> 'Valley Violet'	Valley Violet Mountain Lilac	L	5 gal
	3	<i>Ceanothus</i> 'Ray Hartman'	Ray Hartman California Lilac	L	5 gal
	3	<i>Ceanothus thyrsiflorus</i> 'Snow Flurry'	Snow Flurry Mountain Lilac	L	5 gal
	32	<i>Ceanothus x 'Concha'</i>	Concha California Lilac	L	5 gal



EXISTING TREE PROTECTION NOTES

1. TREES THAT ARE REMOVED SHALL INCLUDE THE REMOVAL OF ROOTS.
2. NO ROTOTILLING UNDER TREE CANOPY OF EXISTING TREE TRUNKS. AMENDMENTS SHALL BE TURNED INTO THE SOIL BY HAND IN THESE AREAS OR AS SPECIFIED BY THE CITY ARBORIST.
3. NO COMPACTION OF SOIL UNDER EXISTING TREES IS ALLOWED. THIS INCLUDES THE STOCK PILING OF SOIL AND OTHER MATERIALS.
4. EXISTING TREES SHALL HAVE THEIR DEAD WOOD REMOVED AND/OR PRUNED FOR HEALTH & SAFETY UNDER THE DIRECTION OF AN ISA CERTIFIED ARBORIST. NO MORE THAN 5% OF THE TOTAL FOLIAGE MAY BE REMOVED.
5. DO NOT RAISE GRADE AROUND EXISTING TREES TO REMAIN.
6. CONTRACTOR SHALL PRESERVE & PROTECT IN PLACE EXISTING TREES THAT ARE TO REMAIN. DAMAGE TO PROTECTED SITE FEATURES SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
7. ALL PRUNING SHALL BE AUTHORIZED AND PERFORMED UNDER THE DIRECTION OF THE ARBORIST AND SHALL CONFORM TO THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) STANDARDS. THERE WILL BE NO FLUSH CUTTING ALLOWED.
8. PRIOR TO COMMENCEMENT OF CLEARING, GRUBBING, TRENCHING, GRADING OR ANY SITE DISTURBANCES, TREE PROTECTION FENCING MUST BE INSTALLED AROUND THE EXISTING TREES TO REMAIN. 6' HT. CONSTRUCTION FENCING WITH FIXED POSTS MUST BE INSTALLED AROUND THE TREE PROTECTION ZONE (TPZ). THE FENCING SHALL REMAIN IN PLACE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
9. ONE ENGLISH LANGUAGE AND ONE SPANISH LANGUAGE, READILY-VISIBLE, DURABLE, WATERPROOF SIGN SHALL BE INSTALLED ON THE FENCE IN 4 LOCATIONS AROUND THE TREES. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 16 INCHES WIDE AND MUST CONTAIN THE FOLLOWING TEXT (THE LETTERING IN 'WARNING' MUST BE IN CAPITAL LETTERS AND 2 INCHES HIGH; 'TREE PROTECTION ZONE' MUST BE IN CAPITAL LETTERS AND 1 INCH HIGH; ALL OTHER LETTERING MUST BE AT LEAST 1/2 INCH SIZE):

WARNING
TREE PROTECTION ZONE
ENTRY PROHIBITED. THIS FENCE SHALL REMAIN IN PLACE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. TO REPORT VIOLATIONS, CONTACT CONSTRUCTION SUPERINTENDENT.

ADVERTENCIA
ZONA DE PROTECCIÓN DE ÁRBOLES
ENTRADA PROHIBIDA. ESTA CERCA DEBE PERMANECER EN SU LUGAR DURANTE EL PERIODO DE CONSTRUCCIÓN. PARA REPORTA VIACIONES, CONTACTE AL ENFORZAMIENTO.

10. NO CONSTRUCTION EQUIPMENT, SOIL OR OTHER CONSTRUCTION MATERIALS SHALL BE PLACED WITHIN THE TPZ. NO OIL, GASOLINE, CHEMICALS, PAINTS, SOLVENTS OR OTHER HAZARDOUS MATERIALS MAY BE DEPOSITED WITHIN THE TPZ OR IN DRAINAGE CHANNELS, SWALES OR AREAS THAT MAY FLOW TO THE TPZ.
11. ALL WORK DONE WITHIN THE TPZ, INCLUDING BRUSH CLEARANCE, DIGGING, AND TRENCHING SHALL BE DONE WITH HAND TOOLS OR SMALL HAND HELD POWER TOOLS THAT WILL NOT CAUSE ROOT DAMAGE.
12. ANY WORK DONE WITHIN THE TPZ NOT USING HAND TOOLS MUST BE APPROVED AND MONITORED BY THE CITY ARBORIST.
13. NO PLANT MATERIAL SHALL BE INSTALLED WITHIN THE TREE PROTECTION ZONE (HALF WAY BETWEEN THE TRUNK AND CANOPY).

EXISTING TREE SYMBOLS

	RETAIN
	REMOVE

EXISTING TREE INVENTORY

TREE NO.	LATIN NAME	COMMON NAME	ACTION	DBH
E01	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E02	<i>Sambucus nigra</i>	Hairy Blue Elderberry	Retain	2'6"
E03	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E04	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E05	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E06	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E07	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E08	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E09	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E10	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E11	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E12	<i>Tipuana tipu</i>	Tipu Tree	Retain	1'6"
E13	<i>Eucalyptus spp</i>	Eucalyptus	Retain	1'4"
E14	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E15	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E16	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E17	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E18	<i>Calocedrus decurrens</i>	Incense Cedar	Retain	8"
E19	<i>Calocedrus decurrens</i>	Incense Cedar	Retain	2'2"
E20	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	3'0"
E21	<i>Brachychiton populneus</i>	Bottle Tree	Retain	2'2"
E22	<i>Calocedrus decurrens</i>	Incense Cedar	Retain	1'4"
E23	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E24	<i>Calocedrus decurrens</i>	Incense Cedar	Retain	1'4"
E25	<i>Platanus racemosa</i>	California Sycamore	Retain	8"
E26	<i>Eucalyptus sideroxylon</i>	Red Ironbark	Retain	3'4"
E27	<i>Schinus molle</i>	Pepper Tree	Retain	3'4"
E28	<i>Phoenix canariensis</i>	Phoenix canariensis	Retain	2'5"
E29	<i>Eucalyptus sideroxylon</i>	Red Ironbark	Retain	1'2"
E30	<i>Platanus racemosa</i>	California Sycamore	Retain	2'5"
E31	<i>Eucalyptus sideroxylon</i>	Red Ironbark	Retain	3'2"
E32	<i>Quercus agrifolia</i>	Coastal Live Oak	Retain	3'2"
E33	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E34	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	2'6"
E35	<i>Sambucus nigra</i>	Hairy Blue Elderberry	Retain	3'0"
E36	<i>Quercus agrifolia</i>	Coast Live Oak	Retain	4'7"
E37	<i>Phoenix canariensis</i>	Canary Island Date Palm	Remove	6"
E38	<i>Phoenix canariensis</i>	Canary Island Date Palm	Remove	3'0"
E39	<i>Phoenix canariensis</i>	Canary Island Date Palm	Remove	3'0"
E40	<i>Calocedrus decurrens</i>	Incense Cedar	Retain	1'2"
E41	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	3'0"
E42	<i>Phoenix canariensis</i>	Canary Island Date Palm	Retain	3'0"
E43	<i>Eucalyptus spp</i>	Eucalyptus	Retain	3'6"
E44	<i>Eucalyptus spp</i>	Eucalyptus	Retain	3'7"
E45	<i>Eucalyptus spp</i>	Eucalyptus	Retain	4'6"
E46	<i>Robinia pseudoacacia</i>	Black Locust	Retain	1'2"
E47	<i>Robinia pseudoacacia</i>	Black Locust	Retain	1'2"
E48	<i>Schinus molle</i>	Pepper Tree	Retain	3'4"
E49	<i>Schinus molle</i>	Pepper Tree	Retain	3'4"
E50	<i>Schinus molle</i>	Pepper Tree	Retain	3'4"

client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



TREE PROTECTION
PLAN

LC-0.03



PRISKE DRIVE

LEWIS ROAD

LIMIT OF WORK

LIMIT OF WORK

FUTURE PARKING
(NOT A PART)

FUTURE PARKING
(NOT A PART)

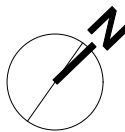
GROWING WORKS
NURSERY

(E) LABYRINTH TO REMAIN

PLANT COMMUNITY PLAN

Scale: 1" = 20'-0"

0 20 40 60 80 FT



PLANT COMMUNITY COLOR LEGEND

- CHANNEL ISLANDS NATIVE
- CHAPARRAL
- COASTAL SAGE SCRUB
- MEADOW
- OAK WOODLAND/SAVANNAH
- POLLINATOR GARDEN
- REGIONALLY ADAPTED
- RIPARIAN

NOTES

- SEE 'LANDSCAPE CONSTRUCTION PLAN', SHEETS LC-1.01 - LC-1.08 FOR LAYOUT OF HARDSCAPE ELEMENTS & AMENITIES AND PLANTING PLANS.
- SEE SHEETS LC-0.01-0.02 FOR MASTER PLANT SCHEDULES.

Pacific Coast Land Design, Inc.
Landscape Architecture • Urban Design • Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcl-d.com

client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

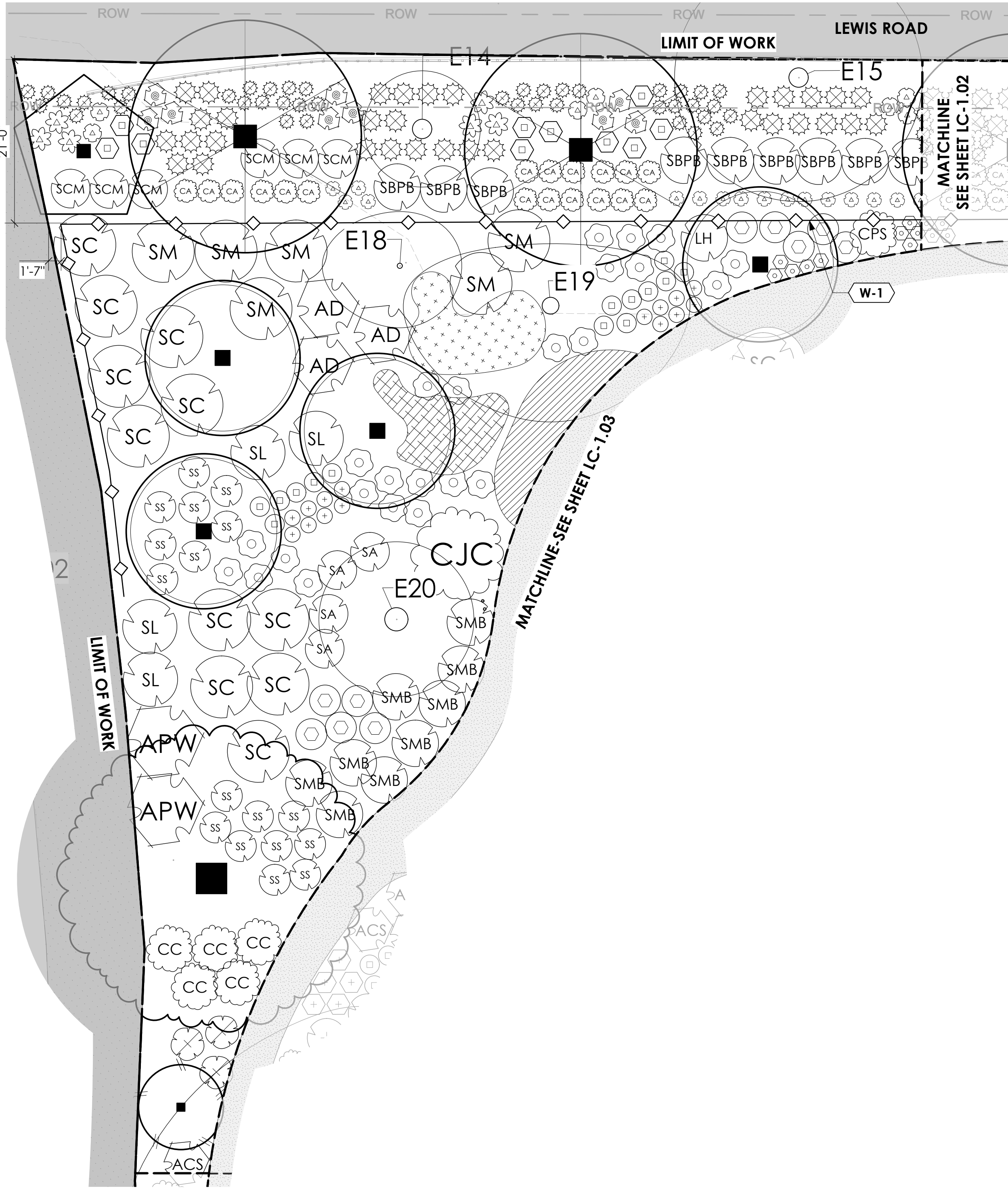
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



PLANT COMMUNITY
PLAN

LC-0.04



LANDSCAPE CONSTRUCTION PLAN

Scale: 1" = 10'-0"

PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINIUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
AD	Adenostoma fasciculatum	Chamise
	Agave 'Mateo'	Matthew's Agave
	Agave ocahui	Ocahui Agave
	Aloe striata 'Pink Rim'	Pink Rim Coral Aloe
	Aloe wickensii	Geelaalwyn
ACS	Arctostaphylos edmundsii 'Carmel Sur'	Carmel Sur Little Sur Manzanita
APW	Arctostaphylos pajaroensis 'Warren Roberts'	Warren Roberts Manzanita
	Calliandra californica	Baja Fairy Duster
CJC	Ceanothus 'Joyce Coulter'	Joyce Coulter Mountain Lilac
CPS	Ceanothus maritimus 'Point Sierra'	Maritime Ceanothus
CC	Ceanothus x 'Concha'	Concha California Lilac
CA	Crassula arborescens ssp. undulatifolia 'Ripple Jade'	Ripple Jade
	Echinocactus grusonii	Golden Barrel Cactus
	Erigeron glaucus 'Wayne Roderick'	Beach Aster Wayne Roderick
	Eriogonum fasciculatum	California Buckwheat
LH	Lepechinia hastata	Mexican Pitcher Sage
	Muhlenbergia dubia	Pine Muhly
	Pachycereus marginatus	Mexican Fence Post Cactus
+	Penstemon heterophyllus 'Margarita BOP'	Margarita BOP Beardtongue
	Penstemon spectabilis var. spectabilis	Showy Penstemon
SA	Salvia apiana 'Compacta'	White Sage
SCM	Salvia chamaedryoides 'Marine Blue'	Marine Blue Sage
SC	Salvia clevelandii 'Winifred Gillman'	Winifred Gillman Sage
SL	Salvia leucophylla	Purple Sage
SM	Salvia mellifera	Black Sage
SBPB	Salvia 'Pozo Blue'	Pozo Blue Sage
SMB	Salvia sonomensis 'Mrs. Beard'	Mrs. Beard Sage
SS	Salvia spathacea	Hummingbird Sage
	Trichostema lanatum	Woolly Blue Curls

CONSTRUCTION NOTES

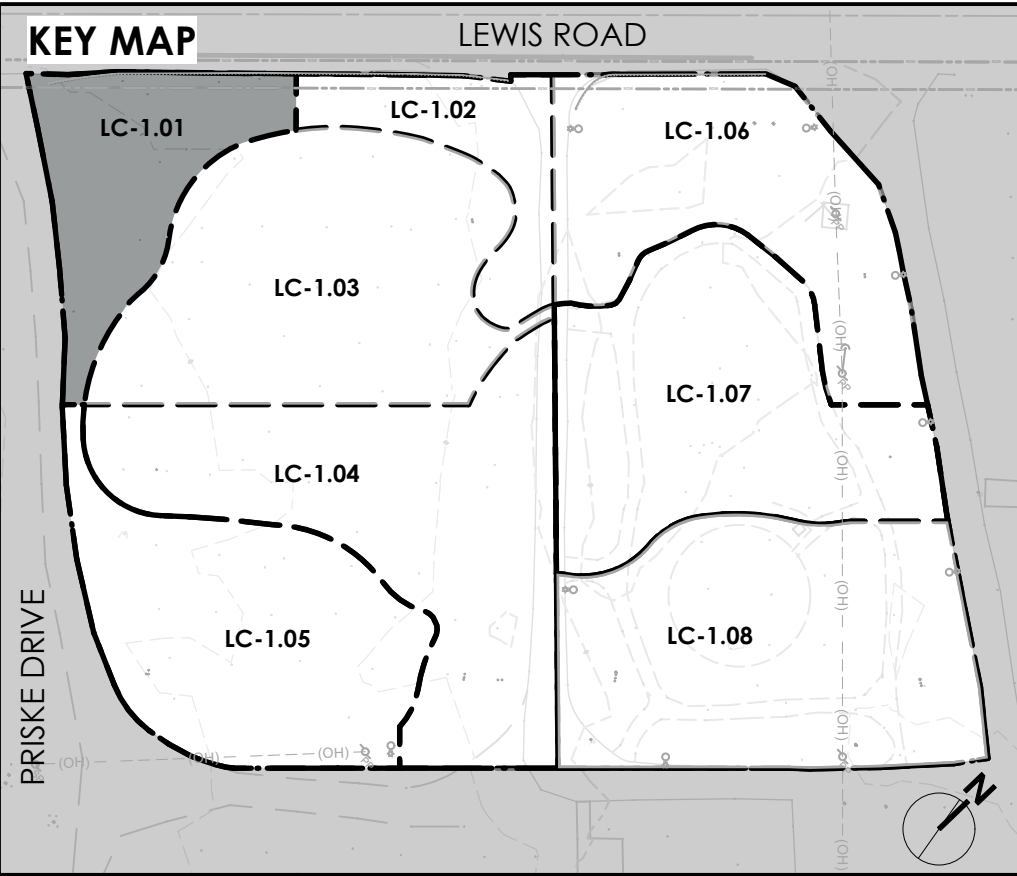
- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
	Acacia smallii	Sweet Acacia
	Cercidium x 'Desert Museum'	Desert Museum Palo Verde
	Chilopsis linearis ssp.	Desert Willow Species
	Quercus agrifolia	Coast Live Oak
	Garrya elliptica	Coast Silk Tassel
GROUND COVER		
	Achillea millefolium	Common Yarrow
	Eschscholzia californica	California Poppy
	Lupinus albus	Silver Lupine

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
2	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING



client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:
No. Date Revision Notes

issues:
No. Date Issue Notes
A 02/01/2023

project:

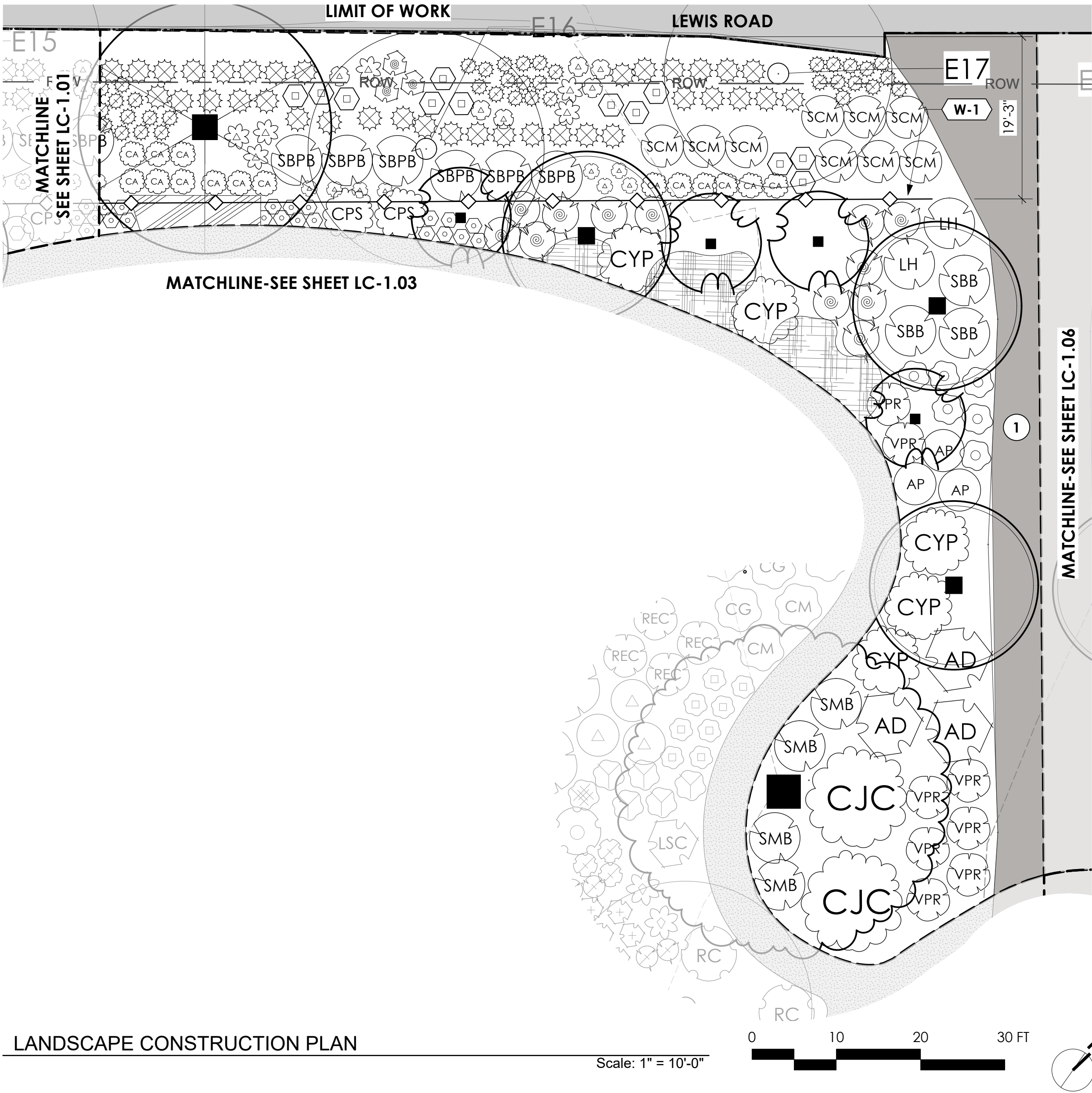
LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023
drawn by: EEB
checked by: BM
PCLD project #: 21-033
File Name: 21-033_L-Project.vwx



LANDSCAPE
CONSTRUCTION
PLAN

LC-1.01



PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
AP	Abutilon palmeri	Apricot Mallow
AD	Adenostoma fasciculatum	Chamise
	Agave 'Mateo'	Matthew's Agave
	Agave ocahui	Ocahui Agave
	Aloe striata 'Pink Rim'	Pink Rim Coral Aloe
	Aloe wickensii	Geelaalwyn
CYP	Ceanothus griseus 'Yankee Point'	Yankee Point California Lilac
CJC	Ceanothus 'Joyce Coulter'	Joyce Coulter Mountain Lilac
CPS	Ceanothus maritimus 'Point Sierra'	Maritime Ceanothus
CA	Crassula arborescens ssp. undulatifolia 'Ripple Jade'	Ripple Jade
	Echinocactus grusonii	Golden Barrel Cactus
	Encelia californica	Coast Sunflower
	Erigeron glaucus 'Wayne Roderick'	Beach Aster Wayne Roderick
	Eriogonum fasciculatum	California Buckwheat
LH	Lepechinia hastata	Mexican Pitcher Sage
	Muhlenbergia dubia	Pine Muhly
	Pachycereus marginatus	Mexican Fence Post Cactus
SBB	Salvia 'Bee's Bliss'	Bee's Bliss Sage
SCM	Salvia chamaedryoides 'Marine Blue'	Marine Blue Sage
SBPB	Salvia 'Pozo Blue'	Pozo Blue Sage
SMB	Salvia sonomensis 'Mrs. Beard'	Mrs. Beard Sage
VPR	Verbena lilacina 'Paseo Rancho'	Paseo Rancho Cedros Island Verbena

CONSTRUCTION NOTES

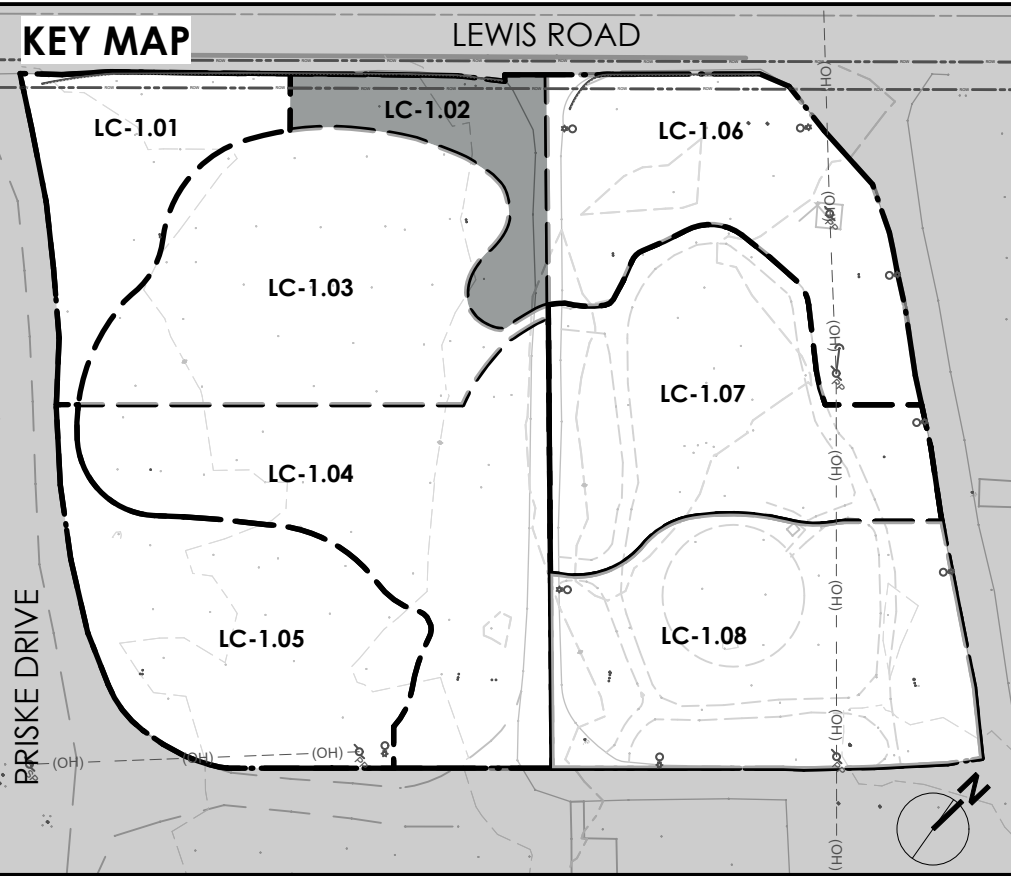
- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
	Chilopsis linearis ssp.	Desert Willow Species
	Arctostaphylos densiflora 'Howard McMinn'	Howard McMinn Manzanita
	Quercus agrifolia	Coast Live Oak
	Cercidium x 'Desert Museum'	Desert Museum Palo Verde
GROUND COVER		
	Epilobium Mix	California Fuchsia
	Penstemon centranthifolius	Scarlet Bugler

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
2	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING



client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

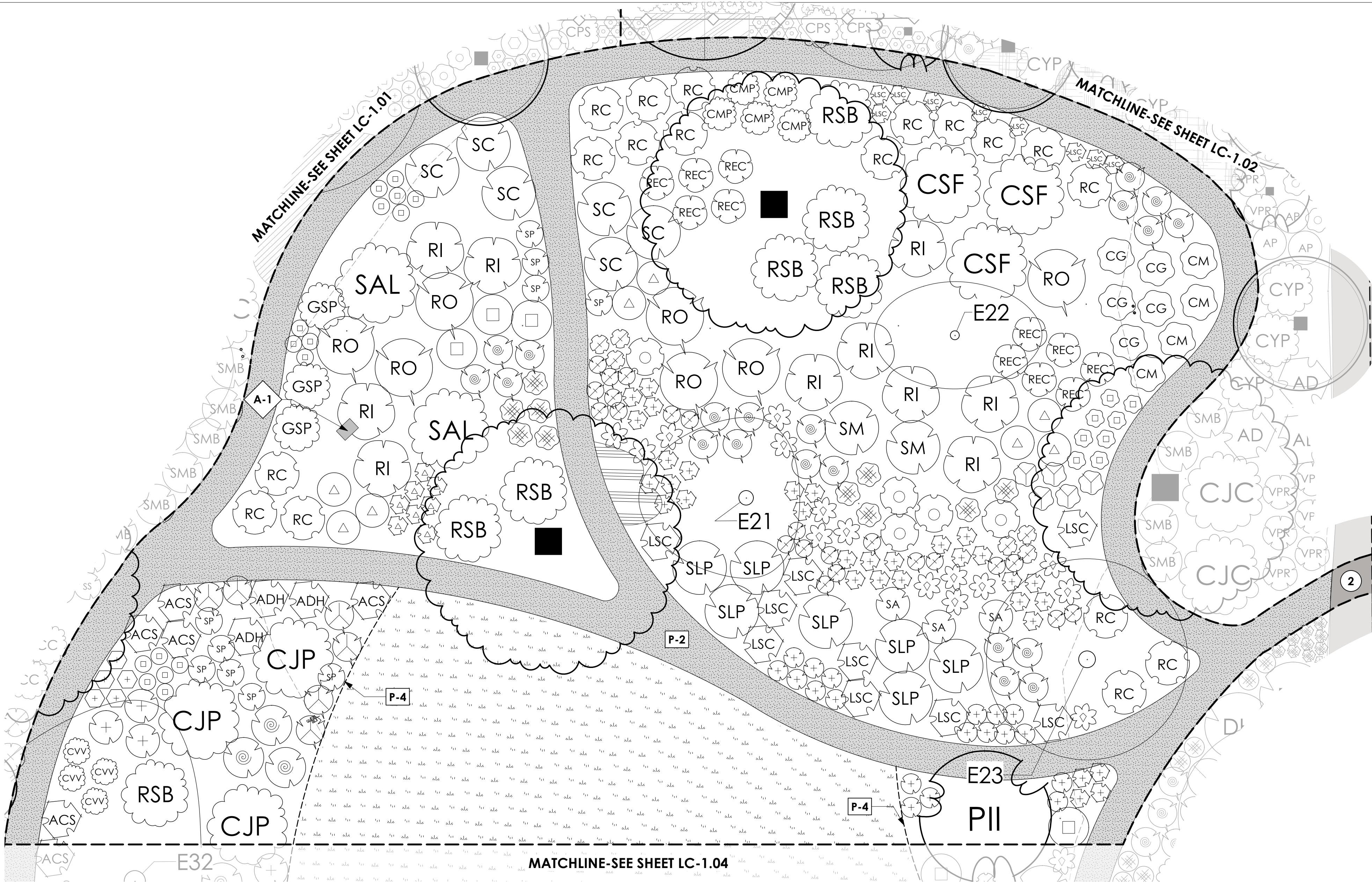
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx

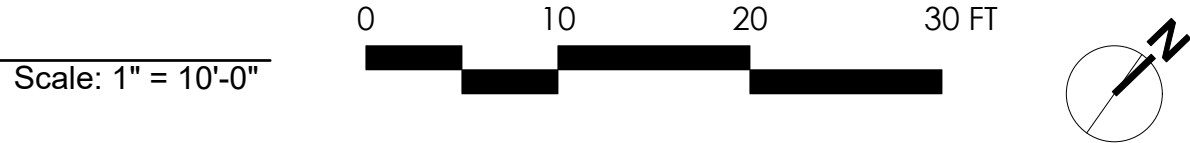


LANDSCAPE
CONSTRUCTION
PLAN

LC-1.02



LANDSCAPE CONSTRUCTION PLAN



PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-4" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

AMENITIES SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
A-1	EXISTING OWL BOX TO BE RE-MOUNTED		H/LC-2.01

SHRUBS CONTINUED

	Opuntia oricola	Chaparral Prickly Pear
	Penstemon spectabilis var. spectabilis	Showy Penstemon
	Perityle incana	Guadalupe Island Rock Daisy
	Rhamnus californica 'Eve Case'	Coffeeberry
	Rhamnus californica 'Mound San Bruno'	San Bruno Coffeeberry
	Rhus integrifolia	Lemonade Berry
	Rhus ovata	Sugar Bush
	Romneya coulteri	Matilija Poppy
	Salvia apiana 'Compacta'	White Sage
	Salvia clevelandii 'Winifred Gillman'	Winifred Gillman Sage
	Salvia leucophylla 'Point Sal'	Purple Sage
	Salvia mellifera	Black Sage
	Salvia 'Pozo Blue'	Pozo Blue Sage
	Sidalcea calycosa ssp. rhizomata	Pt. Reyes Checkerbloom
	Symphoricarpos albus var. laevigatus	Snowberry
	Symphyotrichum chilense	California Aster
	Venegasia carpesioides	Canyon Sunflower
	Yucca whipplei	Our Lord's Candle

GROUND COVER

	Epilobium Mix	California Fuchsia
	Native Meadow Mix	N/A

CONSTRUCTION NOTES

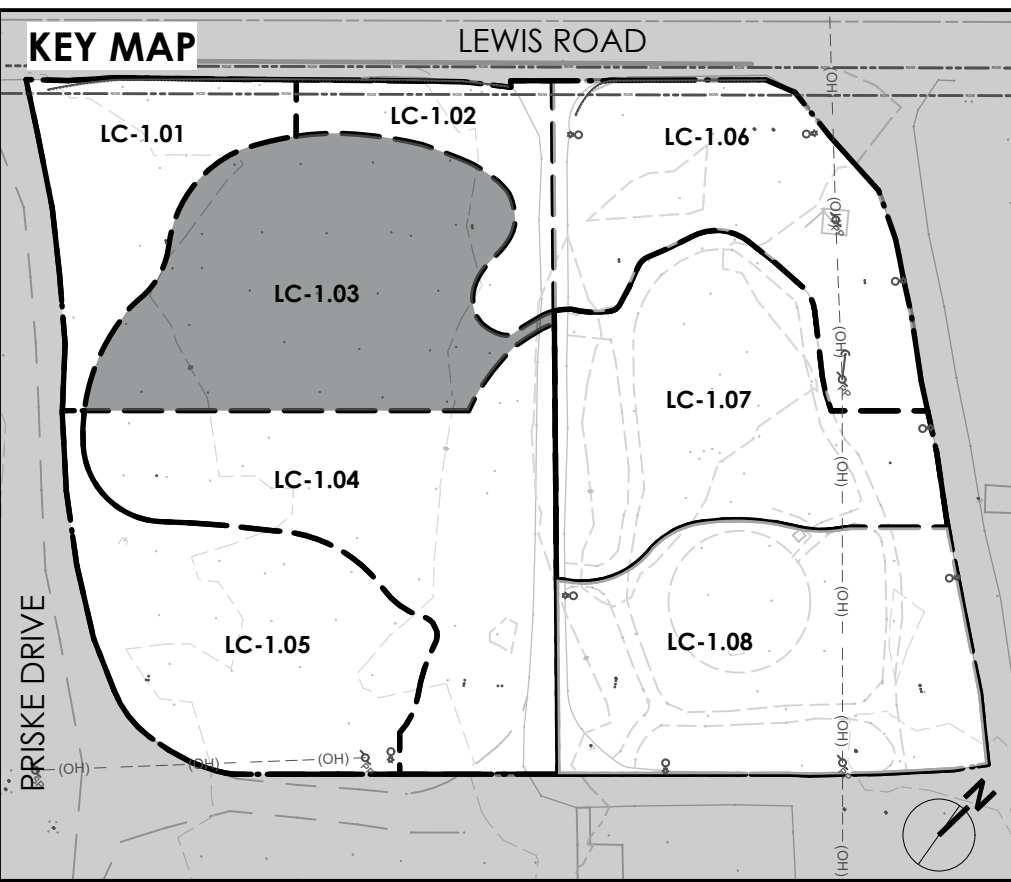
- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
1	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
	Quercus agrifolia	Coast Live Oak
	Prunus ilicifolia	Hollyleaf Cherry
SHRUBS		
	Acmispon glaber	Deer Weed
	Arctostaphylos densiflora 'Harmony'	Harmony Manzanita
	Arctostaphylos edmundsii 'Carmel Sur'	Carmel Sur Little Sur Manzanita
	Artemisia californica 'Canyon Grey'	California Grey Sagebrush
	Artemisia californica 'Montara'	Montara Sagebrush
	Ceanothus 'Julia Phelps'	Julia Phelps Mountain Lilac
	Ceanothus maritimus 'Popcorn'	Popcorn Mountain Lilac
	Ceanothus maritimus 'Valley Violet'	Valley Violet Mountain Lilac
	Ceanothus thyrsiflorus 'Snow Flurry'	Snow Flurry Mountain Lilac
	Constancea nevinii	Nevin's Woolly Sunflower
	Encelia californica	Coast Sunflower
	Eriogonum cinereum	Ashleaf Buckwheat
	Eriogonum elongatum	Longstem Buckwheat
	Eriogonum fasciculatum 'Warner Lyle'	California Buckwheat
	Eriogonum parvifolium	Seacliff Buckwheat
	Grindelia stricta var. platyphylla	Gumweed
	Isocoma menziesii var. sedoides	Menzie's Goldenbush
	Keckiella cordifolia	Climbing Penstemon
	Lepechinia calycina	White Pitcher Sage
	Lessingia filaginifolia 'Silver Carpet'	Silver Carpet Beach Aster
	Nicotiana quadrivalvis	Indian Tobacco
	Opuntia littoralis and	Coastal Prickly Pear



client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

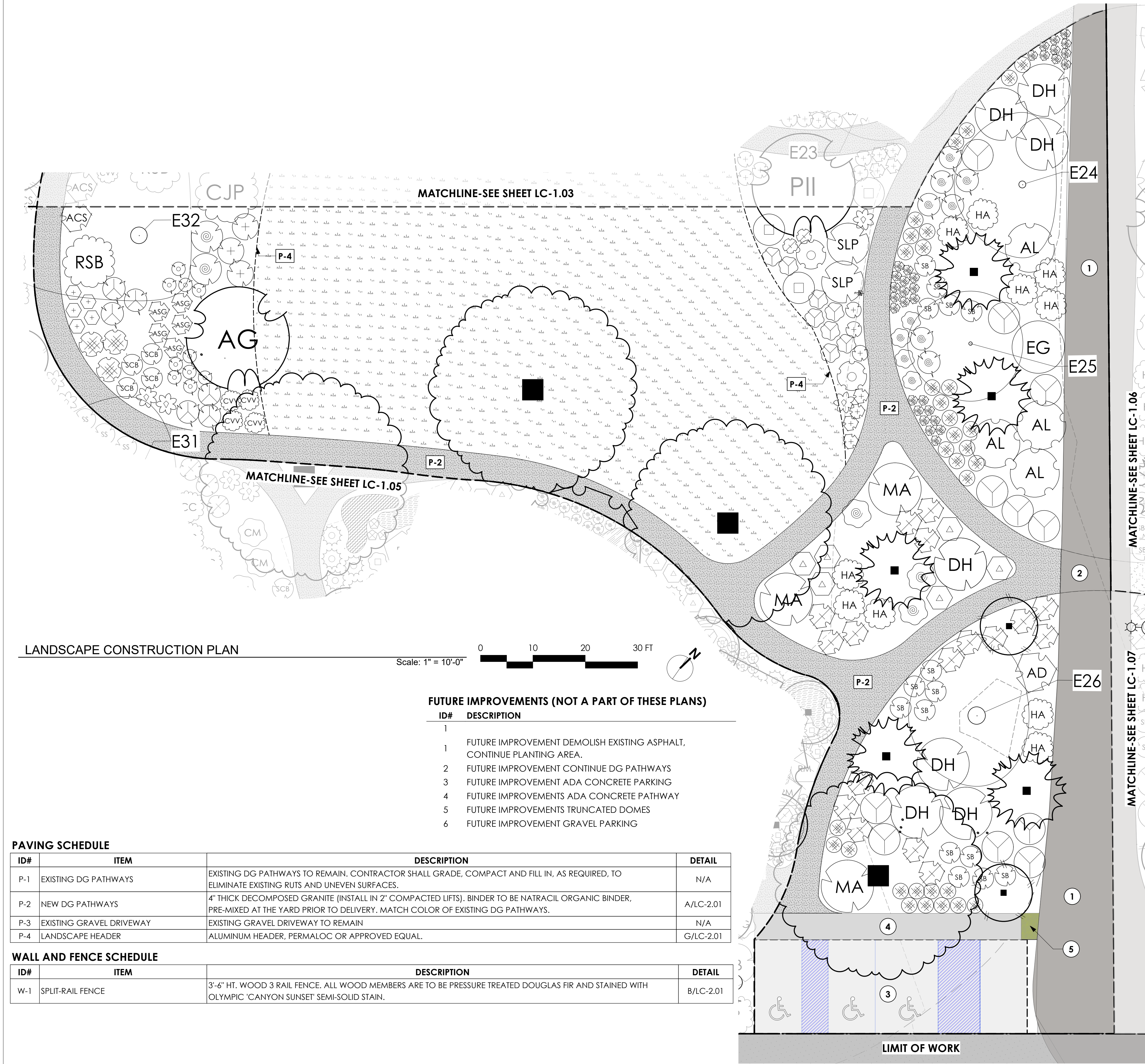
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



LANDSCAPE
CONSTRUCTION
PLAN

LC-1.03



SHRUBS CONTINUED

	Mimulus aurantiacus	Monkeyflower
	Munzothamnus blairii	Blair's Stephanomeria
	Nicotiana quadrivalvis	Indian Tobacco
	Opuntia littoralis	Coastal Prickly Pear
	Opuntia oricola	Chaparral Prickly Pear
	Perityle incana	Guadalupe Island Rock Daisy
	Rhamnus californica 'Mound San Bruno'	San Bruno Coffeeberry
	Salvia brandegeei	Santa Rosa Island Sage
	Salvia 'Celestial Blue'	Celestial Blue Sage
	Salvia leucophylla 'Paint Sal'	Purple Sage
	Venegasia carpesioides	Canyon Sunflower
	Yucca whipplei	Our Lord's Candle

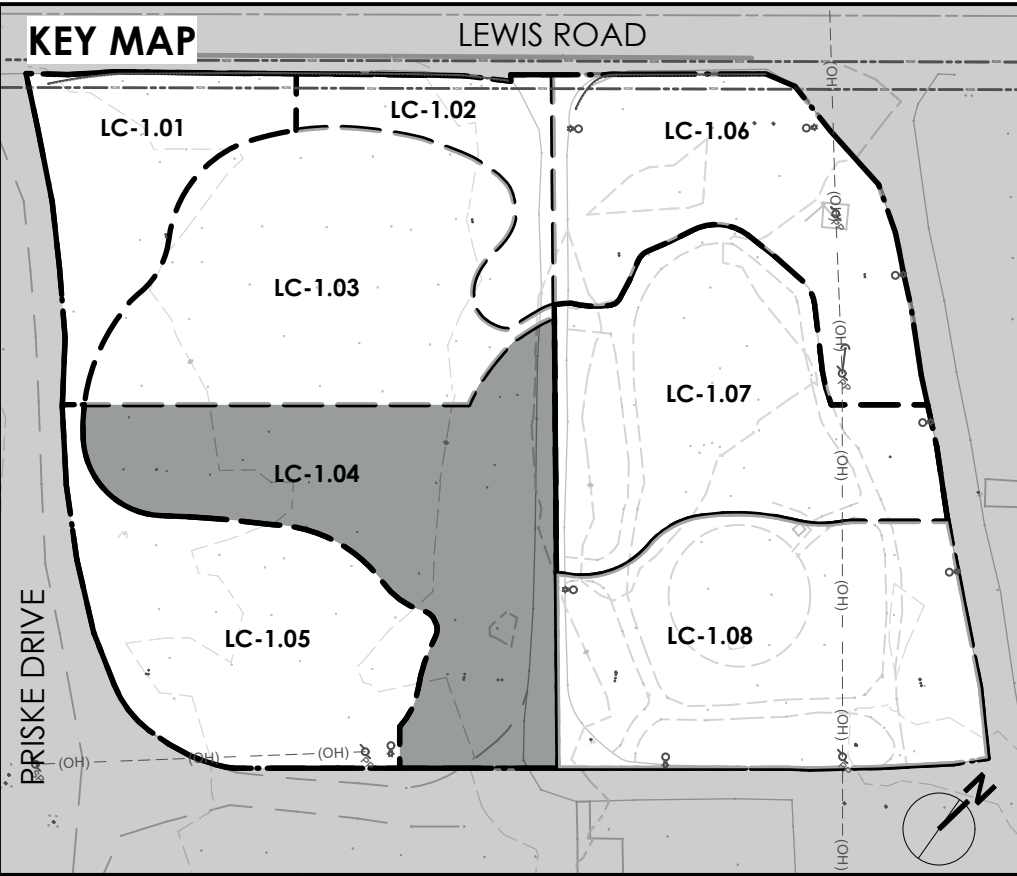
GROUND COVER		
	Native Meadow Mix	N/A

CONSTRUCTION NOTES

- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
	Garrya elliptica	Coast Silk Tassel
	Lyonothamnus floribundus ssp. asplenifolius	Catalina Ironwood
	Quercus agrifolia	Coast Live Oak
	Arctostaphylos glauca	Big Berry Manzanita
SHRUBS		
	Acmispon glaber	Deer Weed
	Adenostoma fasciculatum	Chamise
	Arctostaphylos edmundsii 'Carmel Sur'	Carmel Sur Little Sur Manzanita
	Arctostaphylos silvicola 'Ghostly'	Ghostly Manzanita
	Artemisia nesiotica	Island Sage Brush
	Atriplex lentiformis ssp. breweri	Quail Bush
	Ceanothus maritimus 'Valley Violet'	Valley Violet Mountain Lilac
	Dendromecon harfordii	Island Bush Poppy
	Encelia californica	Coast Sunflower
	Eriodictyon californicum	California Yerba Santa
	Eriogonum arborescens	Santa Cruz Island Buckwheat
	Eriogonum fasciculatum var. Rubescens	Red-Flowered Buckwheat
	Eriogonum fasciculatum 'Warriner Lytle'	California Buckwheat
	Eriogonum giganteum	Saint Catherine's Lace
	Eriophyllum lanatum 'Siskiyou'	Saint Catherine's Lace
	Galvezia speciosa	Island Bush Snapdragon
	Hazardia detonsa	Northern Island Haplopappus
	Heteromeles arbutifolia	Toyon
	Isocoma menziesii var. sedoides	Menzie's Goldenbush
	Keckiella cordifolia	Climbing Penstemon
	Lepechinia calycina	White Pitcher Sage
	Malva assurgentiflora	Malva Rose



Pacific Coast Land Design, Inc.
Landscape Architecture • Urban Design • Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcl-d.com

Client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

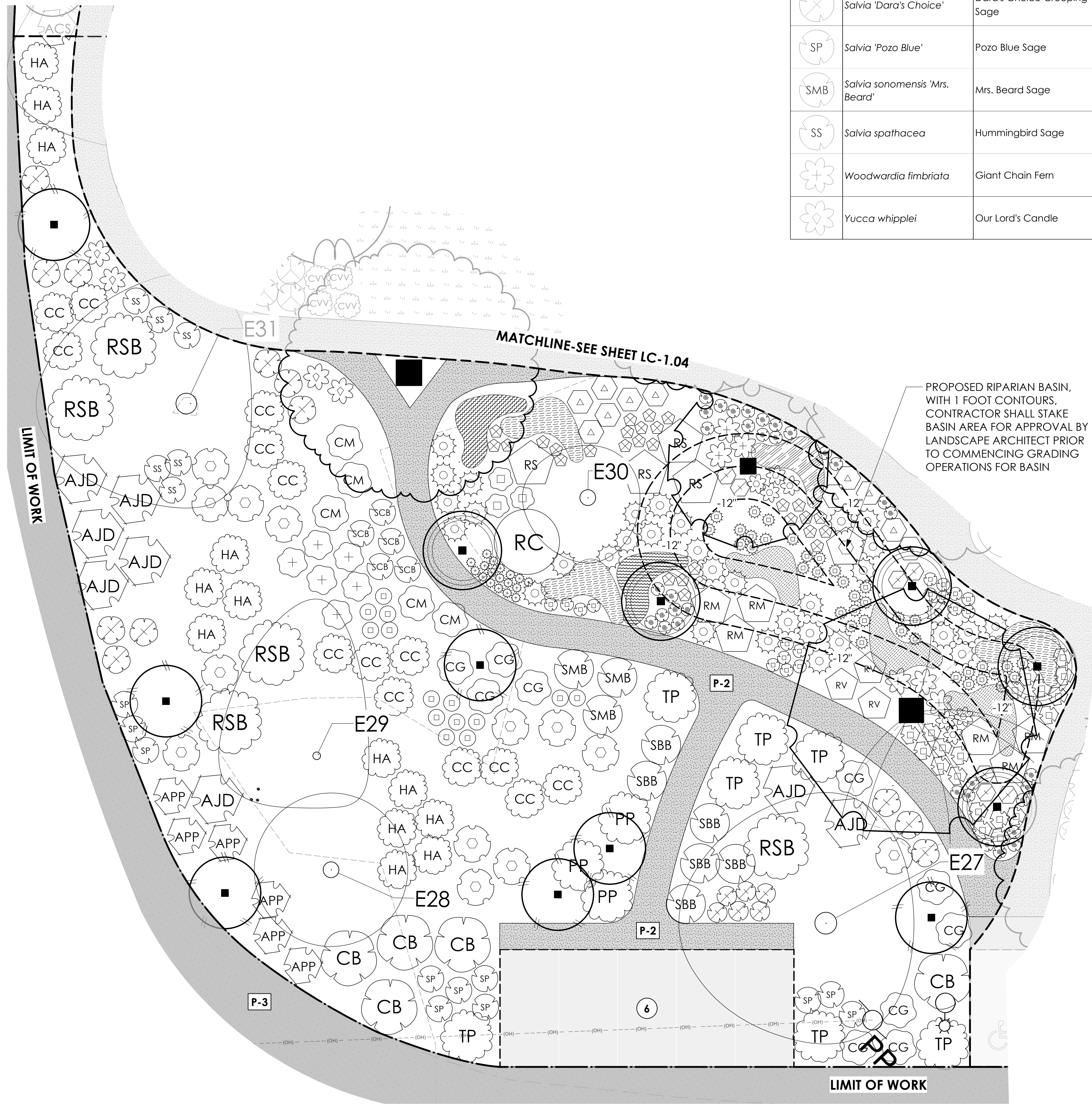
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



LANDSCAPE
CONSTRUCTION
PLAN

LC-1.04



LANDSCAPE CONSTRUCTION PLAN

PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	8/LC-2.01

SHRUBS CONTINUED

	Salvia 'Dara's Choice'	Dara's Choice Creeping Sage
	Salvia 'Pozo Blue'	Pozo Blue Sage
	Salvia sonomensis 'Mrs. Beard'	Mrs. Beard Sage
	Salvia spathacea	Hummingbird Sage
	Woodwardia fimbriata	Giant Chain Fern
	Yucca whipplei	Our Lord's Candle

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
	Adiantum jordanii	California maidenhair
	Arctostaphylos 'John Dourley'	John Dourley Manzanita
	Arctostaphylos pajaroensis 'Paradise'	Paradise Pajaro Manzanita
	Artemisia californica	California Sagebrush
	Artemisia californica 'Canyon Grey'	California Grey Sagebrush
	Artemisia californica 'Montara'	Montara Sagebrush
	Artemisia douglasiana	California Mugwort
	Baccharis pilularis 'Pigeon Point'	Dwarf Coyote Bush
	Baccharis pilularis 'Twin Peaks'	Dwarf Coyote Bush
	Calliandra californica	Baja Fairy Duster
	Carex spectabilis	Showy Sedge
	Ceanothus x 'Concha'	Concha California Lilac
	Cercocarpus betuloides	Mountain Mahogany
	Epilobium canum 'Cloverdale'	Cloverdale California fuchsia
	Fragaria chiloensis	Beach Strawberry
	Fragaria vesca	Woodland Strawberry
	Heteromeles arbutifolia	Toyon
	Juncus patens 'Elk Blue'	Elk Blue California Gray Rush
	Monardella villosa 'Russian River'	Russian River Coyote Mint
	Muhlenbergia rigens	Deer Grass
	Penstemon spectabilis var. spectabilis	Showy Penstemon
	Peritoma arborea	Bladderpod
	Polystichum munitum	Western Swordfern
	Rhamnus californica 'Mound San Bruno'	San Bruno Coffeeberry
	Ribes aureum var. gracillimum	Golden Currant
	Ribes indecorum	White Flowering Currant
	Ribes malvaceum var. malvaceum	Chaparral Currant
	Ribes sanguineum	Red Flowering Currant
	Ribes viburnifolium	Evergreen Currant
	Rosa californica	California Wildrose
	Salvia 'Bee's Bliss'	Bee's Bliss Sage
	Salvia 'Celestial Blue'	Celestial Blue Sage

CONSTRUCTION NOTES

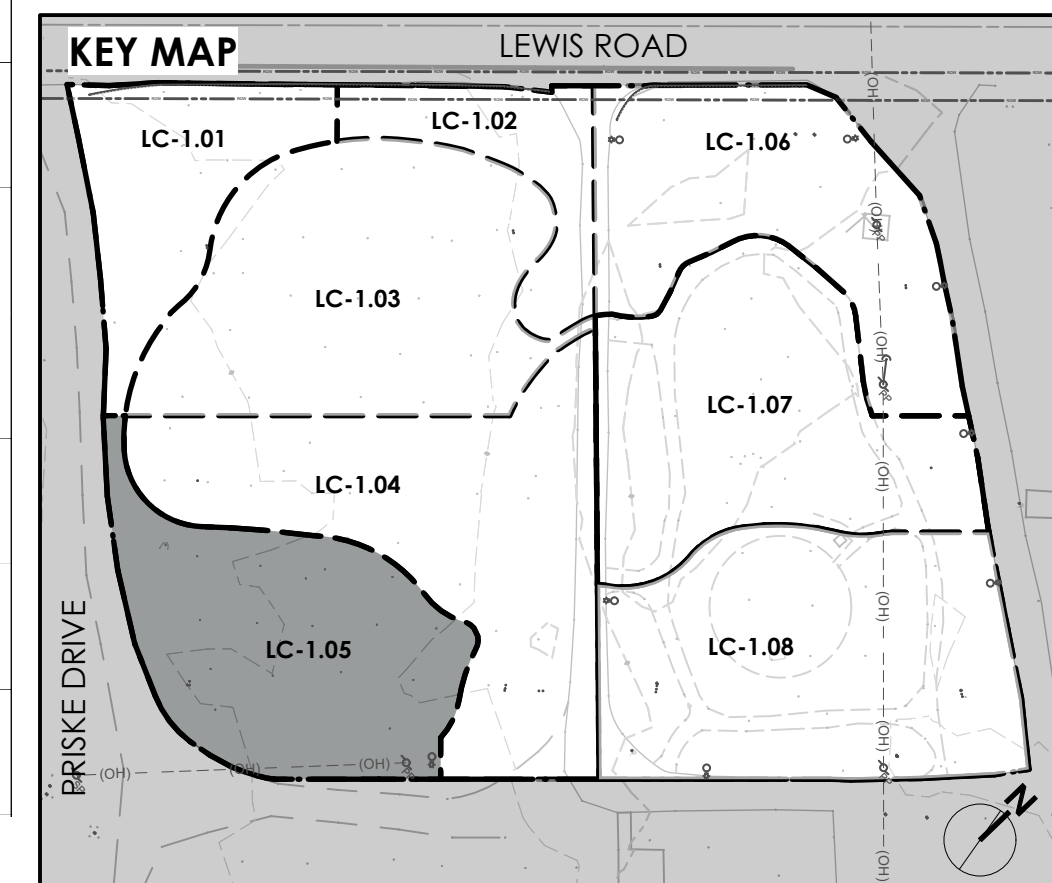
- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
	Garrya elliptica	Coast Silk Tassel
	Quercus agrifolia	Coast Live Oak
	Alnus rhombifolia	White Alder
	Cercis occidentalis	Western Redbud
	Platanus racemosa	California Sycamore
GROUND COVER		
	Aquilegia formosa	Western Columbine
	Carex spectabilis	Showy Sedge
	Heuchera 'Canyon Delight'	Canyon Delight Coral Bells
	Heuchera maxima	Island Alum Root

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
2	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING



client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



LANDSCAPE
CONSTRUCTION
PLAN

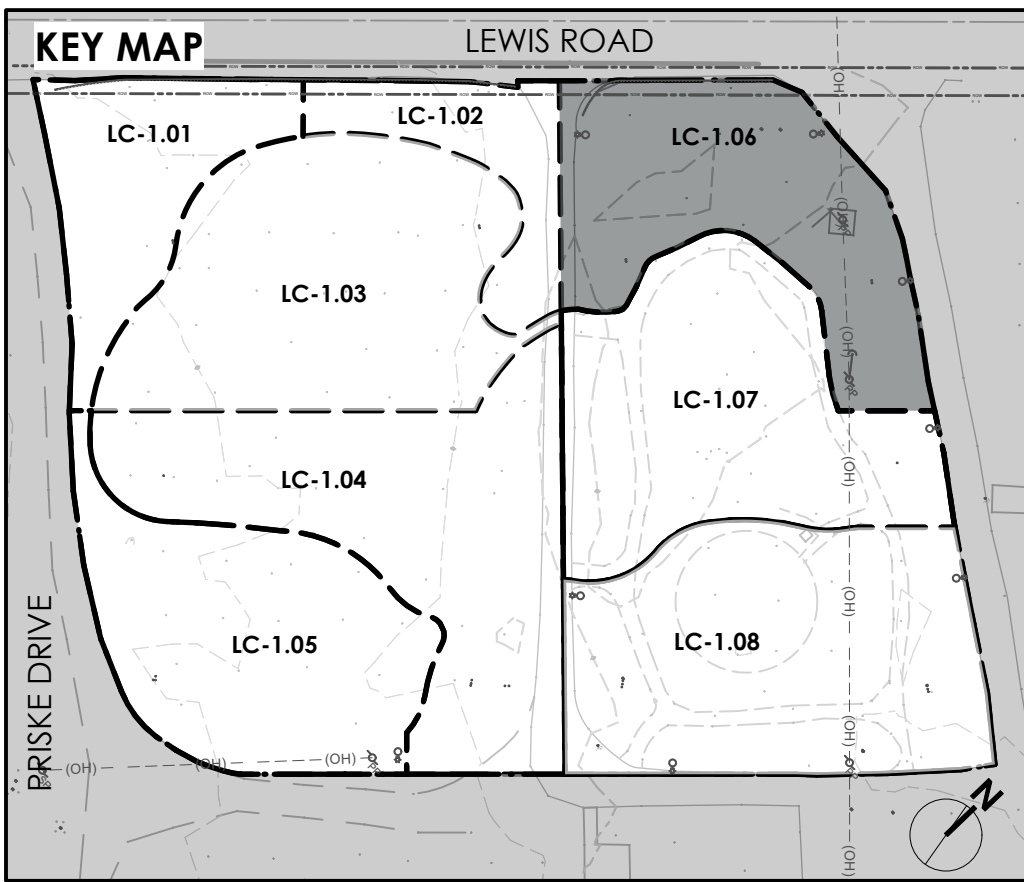
LC-1.05



WALL AND FENCE SCHEDULE			
ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

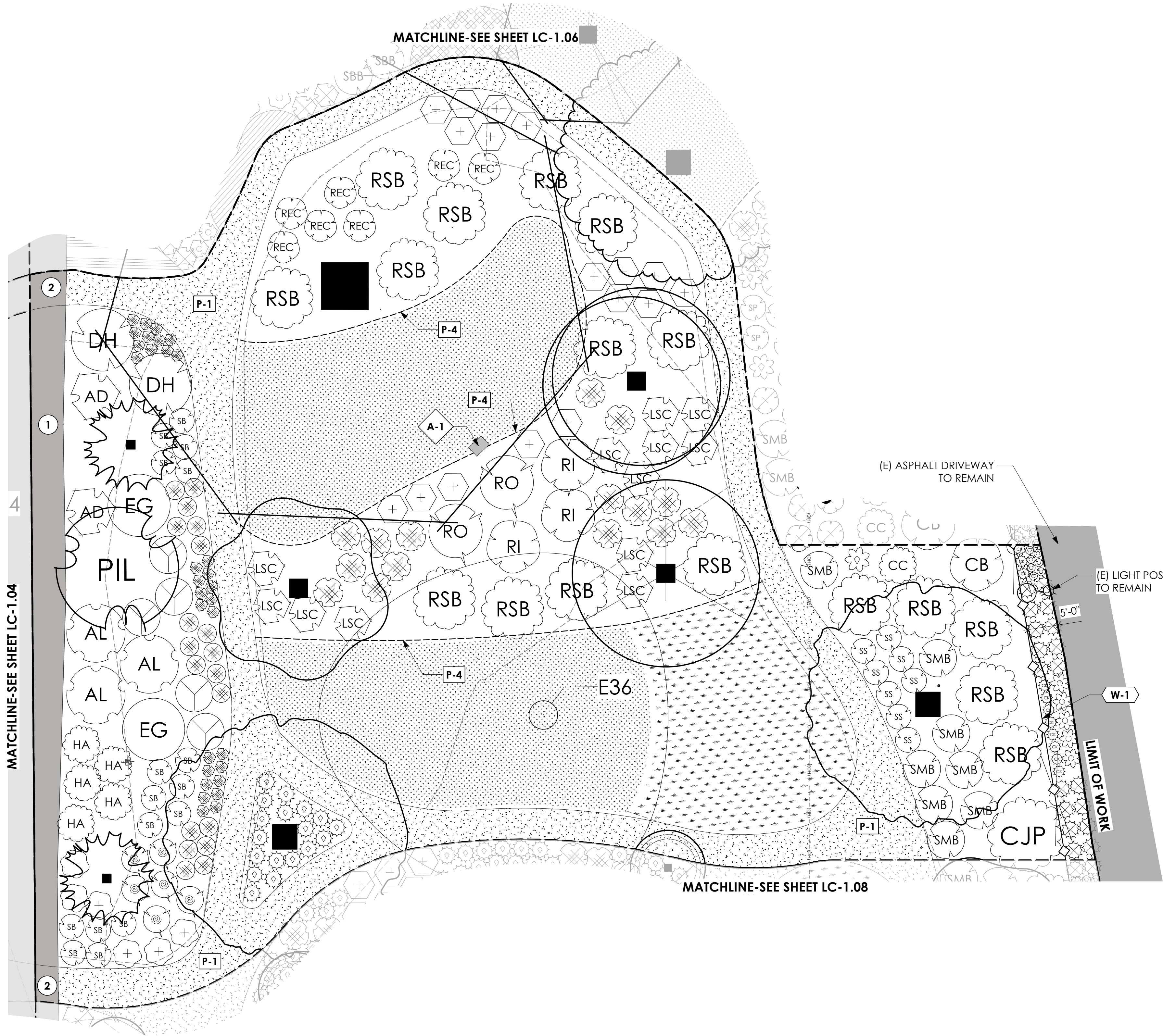
PLANTING SCHEDULE PER (THIS SHEET)		
SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
AP	<i>Abutilon palmeri</i>	Apricot Mallow
+	<i>Acmispion glaber</i>	Deer Weed
AD	<i>Adenostoma fasciculatum</i>	Chamise
□	Agave 'Mateo'	Matthew's Agave
△	Agave ocahui	Ocahui Agave
◎	<i>Aloe striata</i> 'Pink Rim'	Pink Rim Coral Aloe
✱	<i>Aloe wickensii</i>	Geelaalwyn
APP	<i>Arctostaphylos pajaroensis</i> 'Paradise'	Paradise Pajaro Manzanita
APW	<i>Arctostaphylos pajaroensis</i> 'Warren Roberts'	Warren Roberts Manzanita
ASG	<i>Arctostaphylos silvicola</i> 'Ghostly'	Ghostly Manzanita
⊙	<i>Asclepias eriocarpa</i>	Kotolo Milkweed
⋈	<i>Asclepias fascicularis</i>	Narrow Leaf Milkweed
✱	<i>Asclepias speciosa</i>	Showy Milkweed
CK	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Foerster's Feather Reed Grass
✱	<i>Calliandra californica</i>	Baja Fairy Duster
+	<i>Carpentaria californica</i>	Bush Anemone
CYP	<i>Ceanothus griseus</i> 'Yankee Point'	Yankee Point California Lilac
CJP	<i>Ceanothus</i> 'Julia Phelps'	Julia Phelps Mountain Lilac
CPS	<i>Ceanothus maritimus</i> 'Point Sierra'	Maritime Ceanothus
CRH	<i>Ceanothus</i> 'Ray Hartman'	Ray Hartman California Lilac
CC	<i>Ceanothus</i> x 'Concha'	Concha California Lilac
CB	<i>Cercocarpus betuloides</i>	Mountain Mahogany
✂	<i>Clematis lasiantha</i>	Chaparral Clematis
CA	<i>Crassula arborescens</i> ssp. <i>undulatifolia</i> 'Ripple Jade'	Ripple Jade
△	<i>Echinocactus grusonii</i>	Golden Barrel Cactus
◎	<i>Encelia californica</i>	Coast Sunflower
⊙	<i>Eriodictyon californicum</i>	California Yerba Santa
⊙	<i>Eriogonum fasciculatum</i>	California Buckwheat
HA	<i>Heteromeles arbutifolia</i>	Toyon
◎	<i>Lepechinia calycina</i>	White Pitcher Sage
LH	<i>Lepechinia hastata</i>	Mexican Pitcher Sage
✿	<i>Lomandra hystrix</i> 'Tropicbelle'	Tropic Belle Mat Rush
✂	<i>Mimulus aurantiacus</i>	Monkeyflower
✱	<i>Muhlenbergia dubia</i>	Pine Muhly

- | FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS) | |
|---|---|
| ID# | DESCRIPTION |
| 1 | |
| 1 | FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA. |
| 2 | FUTURE IMPROVEMENT CONTINUE DG PATHWAYS |
| 3 | FUTURE IMPROVEMENT ADA CONCRETE PARKING |
| 4 | FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY |
| 5 | FUTURE IMPROVEMENTS TRUNCATED DOMES |
| 6 | FUTURE IMPROVEMENT GRAVEL PARKING |



LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

LC-1.06



LANDSCAPE CONSTRUCTION PLAN

PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

AMENITIES SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
A-1	EXISTING OWL BOX TO BE RE-MOUNTED		H/LC-2.01

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
2	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
AD	Adenostoma fasciculatum	Chamise
+	Artemisia californica	California Sagebrush
AL	Atriplex lentiformis ssp breweri	Quail Bush
◇	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Ornamental Grass
CK	Calamagrostis x acutiflora 'Karl Foerster'	Foerster's Feather Reed Grass
+	Carpenteria californica	Bush Anemone
CJP	Ceanothus 'Julia Phelps'	Julia Phelps Mountain Lilac
CC	Ceanothus x 'Concha'	Concha California Lilac
CB	Cercocarpus betuloides	Mountain Mahogany
—	Clematis lasiantha	Chaparral Clematis
DH	Dendromecon harfordii	Island Bush Poppy
⊙	Encelia californica	Coast Sunflower
Y	Eriogonum arborescens	Santa Cruz Island Buckwheat
⊗	Eriogonum fasciculatum var Rubescens	Red-Flowered Buckwheat
EG	Eriogonum giganteum	Saint Catherine's Lace
⊗	Eriophyllum lanatum 'Siskiyou'	Saint Catherine's Lace
HA	Heteromeles arbutifolia	Toyon
LSC	Lessingia filaginifolia 'Silver Carpet'	Silver Carpet Beach Aster
⊗	Lomandra hystrix 'Tropicbelle'	Tropic Belle Mat Rush
⊗	Mimulus aurantiacus	Monkeyflower
⊗	Muhlenbergia dubia	Pine Muhly
REC	Rhamnus californica 'Eve Case'	Coffeeberry
RSB	Rhamnus californica 'Mound San Bruno'	San Bruno Coffeeberry
RI	Rhus integrifolia	Lemonade Berry
RO	Rhus ovata	Sugar Bush
SB	Salvia brandegeei	Santa Rosa Island Sage
SMB	Salvia sonomensis 'Mrs. Beard'	Mrs. Beard Sage
SS	Salvia spathacea	Hummingbird Sage
⊙	Teucrium ackermannii	Germander
⊗	Yucca whipplei	Our Lord's Candle

CONSTRUCTION NOTES

- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION NOTES.
- SEE SHEET LC-0.01-0.02 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
■	Arbutus 'Marina'	Marina Strawberry Tree
■	Quercus engelmannii	Engelmann Oak
⊙	Umbellularia californica	California Bay
■	Quercus laevis	Valley Oak
■	Quercus chrysolepis	Canyon Live Oak
⊗	Lyonothamnus floribundus ssp. asplenifolius	Catalina Ironwood
PIL	Prunus ilicifolia ssp. lyonii	Catalina Cherry
GROUND COVER		
⊗	Oak Woodland Full Sun Grass Mix	N/A
⊗	Oak Woodland Part Shade Grass Mix	N/A

Pacific Coast Land Design, Inc.
Landscape Architecture + Urban Design + Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcl-d.com

client:

COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

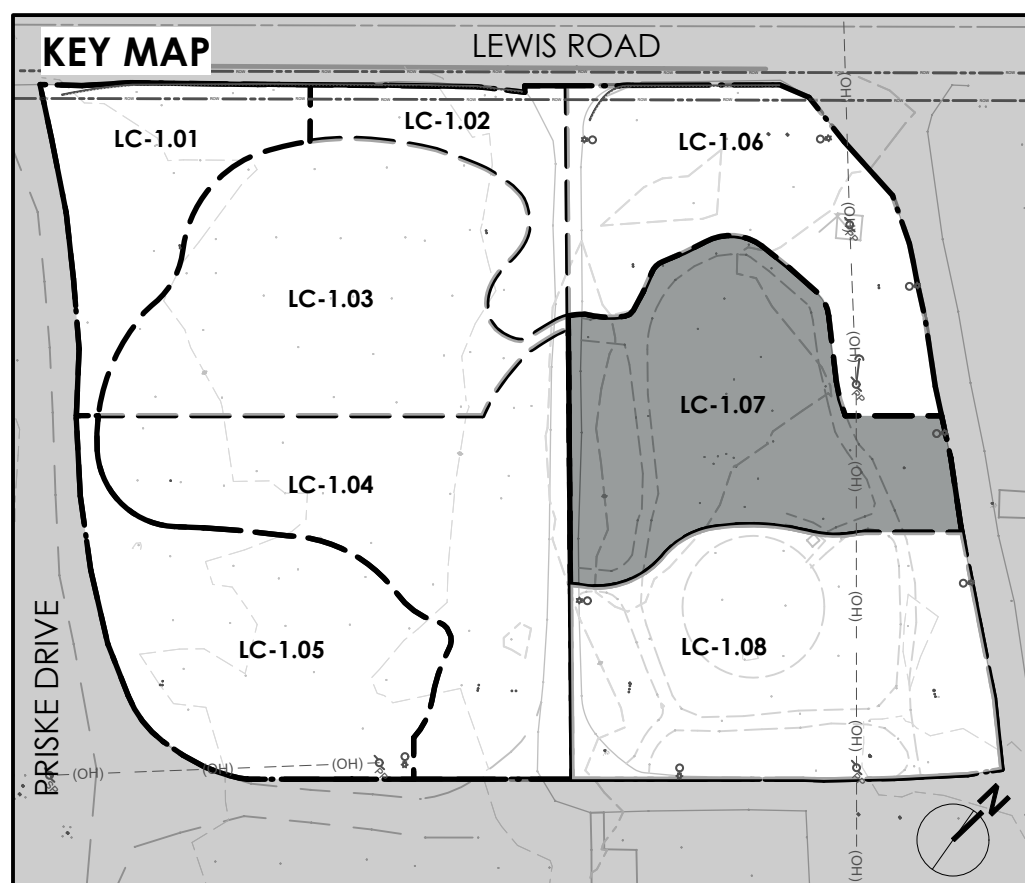
PCLD project #: 21-033

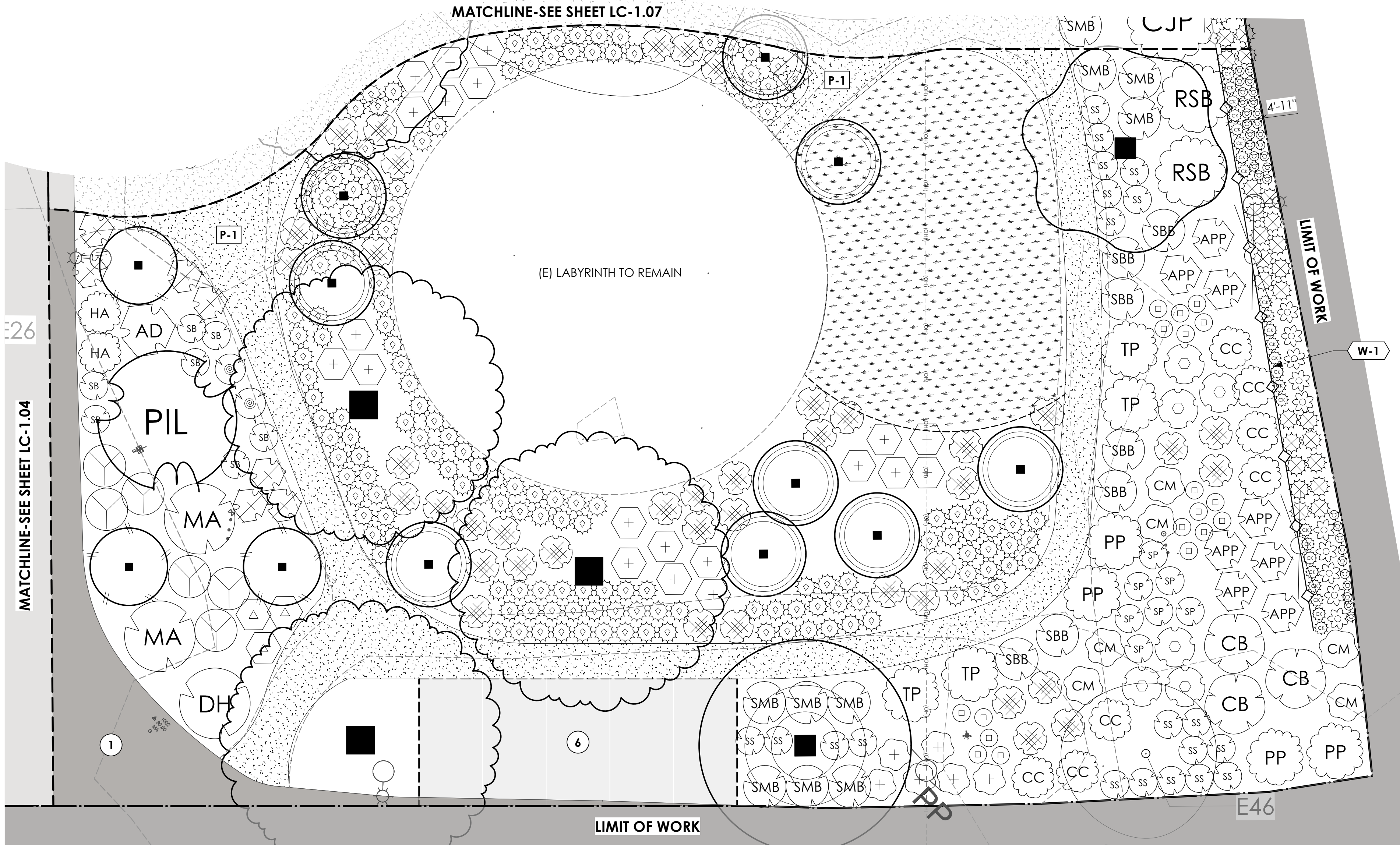
File Name: 21-033_L-Project.vwx



LANDSCAPE CONSTRUCTION PLAN

LC-1.07





PAVING SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
P-1	EXISTING DG PATHWAYS	EXISTING DG PATHWAYS TO REMAIN. CONTRACTOR SHALL GRADE, COMPACT AND FILL IN, AS REQUIRED, TO ELIMINATE EXISTING RUTS AND UNEVEN SURFACES.	N/A
P-2	NEW DG PATHWAYS	4" THICK DECOMPOSED GRANITE (INSTALL IN 2" COMPACTED LIFTS). BINDER TO BE NATRACIL ORGANIC BINDER, PRE-MIXED AT THE YARD PRIOR TO DELIVERY. MATCH COLOR OF EXISTING DG PATHWAYS.	A/LC-2.01
P-3	EXISTING GRAVEL DRIVEWAY	EXISTING GRAVEL DRIVEWAY TO REMAIN	N/A
P-4	LANDSCAPE HEADER	ALUMINUM HEADER, PERMALOC OR APPROVED EQUAL.	G/LC-2.01

WALL AND FENCE SCHEDULE

ID#	ITEM	DESCRIPTION	DETAIL
W-1	SPLIT-RAIL FENCE	3'-6" HT. WOOD 3 RAIL FENCE. ALL WOOD MEMBERS ARE TO BE PRESSURE TREATED DOUGLAS FIR AND STAINED WITH OLYMPIC 'CANYON SUNSET' SEMI-SOLID STAIN.	B/LC-2.01

FUTURE IMPROVEMENTS (NOT A PART OF THESE PLANS)

ID#	DESCRIPTION
1	FUTURE IMPROVEMENT DEMOLISH EXISTING ASPHALT, CONTINUE PLANTING AREA.
2	FUTURE IMPROVEMENT CONTINUE DG PATHWAYS
3	FUTURE IMPROVEMENT ADA CONCRETE PARKING
4	FUTURE IMPROVEMENTS ADA CONCRETE PATHWAY
5	FUTURE IMPROVEMENTS TRUNCATED DOMES
6	FUTURE IMPROVEMENT GRAVEL PARKING

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
SHRUBS		
AD	<i>Adenostoma fasciculatum</i>	Chamise
APP	<i>Arctostaphylos pajaroensis</i> 'Paradise'	Paradise Pajaro Manzanita
+	<i>Artemisia californica</i>	California Sagebrush
CM	<i>Artemisia californica</i> 'Montara'	Montara Sagebrush
PP	<i>Baccharis pilularis</i> 'Pigeon Point'	Dwarf Coyote Bush
TP	<i>Baccharis pilularis</i> 'Twin Peaks'	Dwarf Coyote Bush
CK	<i>Bouteloua gracilis</i> 'Blonde Ambition'	Blonde Ambition Ornamental Grass
CK	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Foerster's Feather Reed Grass
+	<i>Carpenteria californica</i>	Bush Anemone
CC	<i>Ceanothus x 'Concha'</i>	Concha California Lilac
CB	<i>Cercocarpus betuloides</i>	Mountain Mahogany
✂	<i>Clematis lasiantha</i>	Chaparral Clematis
DH	<i>Dendromecon harfordii</i>	Island Bush Poppy
☼	<i>Encelia californica</i>	Coast Sunflower
☼	<i>Eriogonum arborescens</i>	Santa Cruz Island Buckwheat
✂	<i>Galvezia speciosa</i>	Island Bush Snapdragon
HA	<i>Heteromeles arbutifolia</i>	Toyon
☼	<i>Lomandra hystrix</i> 'Tropicbelle'	Tropic Belle Mat Rush
MA	<i>Malva assurgentiflora</i>	Malva Rose
✂	<i>Mimulus aurantiacus</i>	Monkeyflower
✂	<i>Muhlenbergia dubia</i>	Pine Muhly
△	<i>Munzothamnus blairii</i>	Blair's Stephanomeria
□	<i>Penstemon spectabilis</i> var. <i>spectabilis</i>	Showy Penstemon
☼	<i>Peritoma arborea</i>	Bladderpod
RSB	<i>Rhamnus californica</i> 'Mound San Bruno'	San Bruno Coffeeberry
SBB	<i>Salvia 'Bee's Bliss'</i>	Bee's Bliss Sage
SB	<i>Salvia brandegeei</i>	Santa Rosa Island Sage
SP	<i>Salvia 'Pozo Blue'</i>	Pozo Blue Sage
SMB	<i>Salvia sonomensis</i> 'Mrs. Beard'	Mrs. Beard Sage
SS	<i>Salvia spathacea</i>	Hummingbird Sage
☼	<i>Teucrium ackermannii</i>	Germander

CONSTRUCTION NOTES

- SEE SHEET LC-0.01 FOR DETAILED CONSTRUCTION SCHEDULES AND NOTES.
- SEE SHEET LC-0.01 FOR DETAILED PLANTING SCHEDULES AND NOTES.
- SEE SHEET LC-0.03 FOR EXISTING TREE PROTECTION PLAN.

PLANTING SCHEDULE PER (THIS SHEET)

SYMBOL	LATIN NAME	COMMON NAME
TREES		
■	<i>Quercus chrysolepis</i>	Canyon Live Oak
■	<i>Quercus agrifolia</i>	Coast Live Oak
■	<i>Garrya elliptica</i>	Coast Silk Tassel
PIL	<i>Prunus ilicifolia</i> ssp. <i>lyonii</i>	Catalina Cherry
☼	<i>Aesculus californica</i>	California Buckeye
☼	<i>Cercis occidentalis</i>	Western Redbud
GROUND COVER		
☼	Oak Woodland Full Sun Grass Mix	N/A

client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

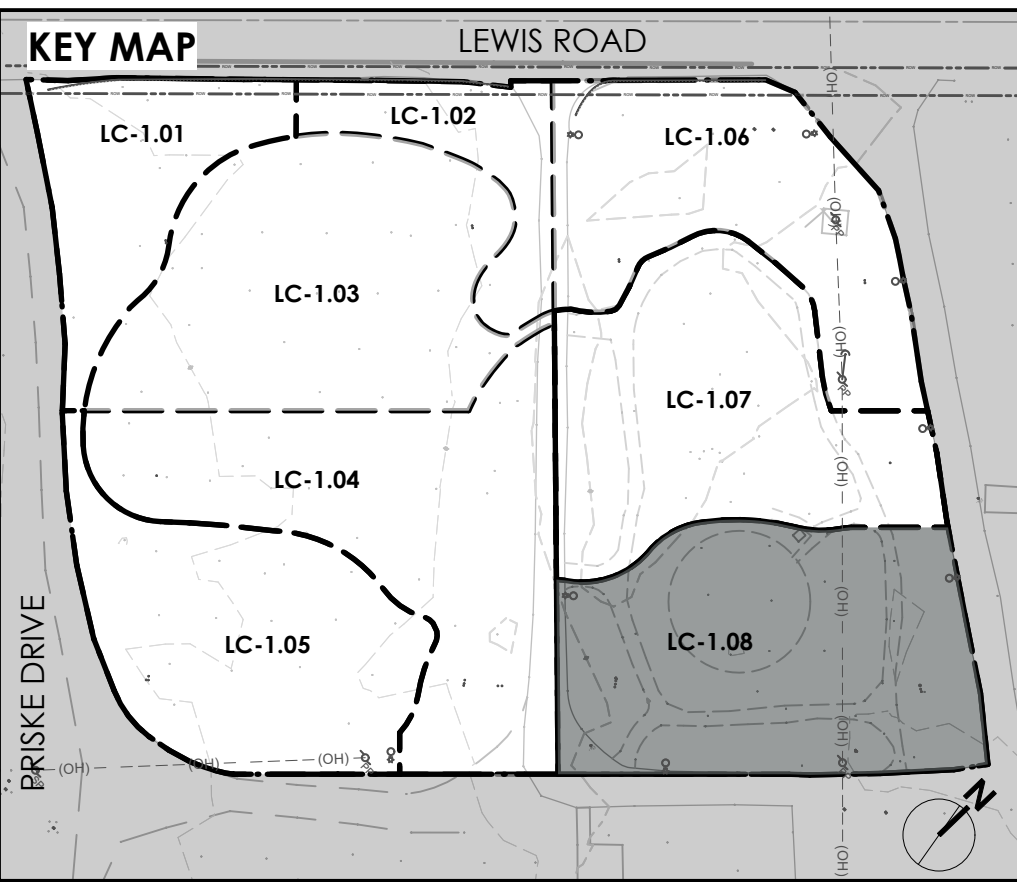
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx










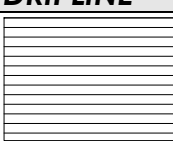







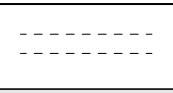
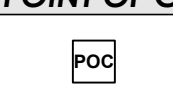







LANDSCAPE
CONSTRUCTION
PLAN

LC-1.08





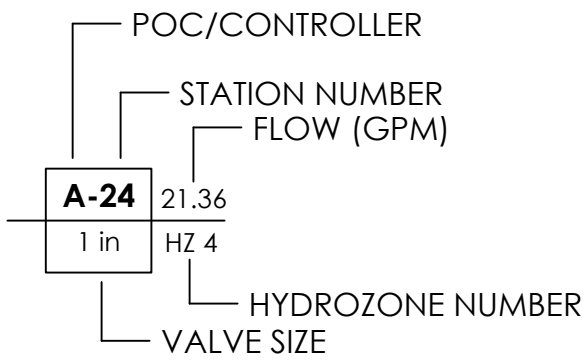
IRRIGATION SCHEDULE - MASTER

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL			GPM	PSI	DETAIL / SHEET
BUBBLERS / DRIP EMITTERS			SERIES	NOZZLE MODEL	BODY MODEL			
	POINT SOURCE DRIP EMITTER	Salco Drip Irrigation	Pro-Spec Emitter	SLV-PSTR-CV-2		0.03	5 - 65	I / LI-2.01
	ROOT WATERING SYSTEM - RECLAIMED	Rain Bird(R)	Root Watering System (RWS)	RWS-8-C-1401-GRATE-P	1802	0.25	20 - 90	B / LI-2.01
	ROTOR-MPR-90	Rain Bird(R)	5000 Series	5012+PCSAMRNP-MPR35Q		1.40	25 - 65	A / LI-2.01
	ROTOR-MPR-120	Rain Bird(R)	5000 Series	5012+PCSAMRNP-MPR35T		1.77	25 - 65	A / LI-2.01
	ROTOR-MPR-180	Rain Bird(R)	5000 Series	5012+PCSAMRNP-MPR35H		3.81	25 - 65	A / LI-2.01
	ROTOR-MPR-360	Rain Bird(R)	5000 Series	5012+PCSAMRNP-MPR35F		5.36	25 - 65	A / LI-2.01
	SHRUB BUBBLER NETWORK					---	20 - 75	N/A
DRIPLINE			SERIES	MODEL	ROW SPACING			
	ON-SURFACE DRIPLINE	Rain Bird(R)	XFD On-Surface Dripline	XFDP-06-12	2'0"	1.0	8.5 - 60	A,C,D,E/ LI-2.02
	PIPE TRANSITION POINT	NA	PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP WITH SCHEDULE 80 RISER					E / LI-2.02
VALVES			SERIES	MODEL	NOTES			
	DRIP VALVE	Rain Bird(R)	Commercial Wide Flow Series	XCZ-100-PRB-LC		0.3 - 20	15 - 150	F / LI-2.01
	GATE VALVE	Nibco	Gate Valve	T-113		0.25 - 30	10 - 150	G / LI-2.01
	REMOTE CONTROL VALVE- 1 1/2"	Rain Bird(R)	PEB/PESB Series	150-PESB-R-PRS-D		20 - 150	20 - 200	E / LI-2.01
	REMOTE CONTROL VALVE- 1"	Rain Bird(R)	PEB/PESB Series	100-PESB-R-PRS-D		5 - 50	20 - 200	E / LI-2.01
	ULTRASONIC FLOW METER VALVE ASSEMBLY	Tucor	Ultrasonic Flow Meter and Master Valve Assembly	UFMV-A-1.0-C1-BN/C-NMF with Pressure Regulator	Contact Jim Bowers at O'Connor Sales. 805.363.6726	0.22 - 33	20 - 200	D / LI-2.01
PIPE			TYPE	NOTES				
	LATERAL	WESTERN LASCO	PVC Schedule 40	PURPLE				C / LI-2.01
	(N) MAINLINE	WESTERN LASCO	PVC Schedule 40	2" PURPLE MAINLINE				C / LI-2.01
	(E) MAINLINE	WESTERN LASCO	PVC Schedule 40	2" MAINLINE				N/A
	SLEEVES	WESTERN LASCO	PVC Schedule 40					C / LI-2.01
POINT OF CONNECTION			MODEL	NOTES				
	EXISTING POINT OF CONNECTION							N/A
	(E) BACKFLOW PREVENTER	Zurn-Wilkins	975XL2 - 2"	975XL - SIZE PER PLAN				N/A
	GARDEN HOSE BIB	N/A	Key operating 3/4" Hose Bib					H / LI-2.02
CONTROLLER			MODEL	ENCLOSURE				
	CONTROLLER	HUNTER	HPC 32-STATION w/ MWS-FR	OUTDOOR PLASTIC, WALL MOUNT				G / LI-2.02
MISCELLANEOUS								
	IRRIGATION SUB METER	HUNTER	HC-150-FLOW w/ W-HC-FLOW					N/A
	PULL BOX	NA	Per Detail- all valve boxes containing reclaimed equipment shall be purple					H / LI-2.01

**CONTRACTOR TO INSTALL MANUFACTURER LISTED EQUIPMENT OR APPROVED EQUAL

LATERAL PIPE SIZING

GPM	SIZE
1-8	3/4"
8-12	1"
12-22	1 1/4"
22-30	1 1/2"
30+	2"



IRRIGATION NOTES

- IF IT IS FOUND DURING INSTALLATION THAT THE SITE VARIES FROM THE DRAWINGS, NOTIFY THE PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
- COORDINATE THE INSTALLATION OF ALL SLEEVING WITH LANDSCAPE CONSTRUCTION PLANS.
- PIPE SLEEVE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING. EXTEND NEW SLEEVES 12 INCHES BEYOND EDGE OF PAVING. ALL IRRIGATION MAINLINE CROSSINGS SHALL BE INSTALLED IN SCHEDULE 40 SLEEVES THAT ARE A MIN. OF 2X THE DIAMETER OF THE PRESSURE PIPE. PROVIDE LOCATOR WIRE OR TAPE ALONG LENGTH OF SLEEVE. ALSO PROVIDE A SEPARATE IRRIGATION WIRE CONDUIT TAPED TO MAINLINE SLEEVE SIZED TO EASILY PULL WIRES THAT RUNS PARALLEL TO THE SLEEVE. ALL SLEEVES AND CONDUIT MUST BE PERPENDICULAR TO ROAD.
- ALL CUTS/TRENCHING IN ASPHALT OR CONCRETE SHALL BE REPAIRED ACCORDING TO SPPWC STANDARD PLANS, LATEST EDITION AND COUNTY STANARD PLATES OR AS REQUIRED BY OWNER'S REPRESENTATIVE.
- COORDINATE THE INSTALLATION OF ALL IRRIGATION MATERIALS, INCLUDING PIPE, WITH THE PLANTING PLAN TO AVOID INTERFERING WITH THE PLANTING.
- CONTRACTOR SHALL TEST PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN 60 PSI, NOTIFY THE PROJECT MANAGER PRIOR TO CONSTRUCTION.
- IRRIGATION DRAWINGS ARE DIAGRAMMATIC. LOCATE MAIN LINE AS DIRECTED PER PLAN. LOCATE NEW PIPELINES, VALVES AND EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE.
- PVC SHALL BE LAID WITH CONNECTIONS HORIZONTAL, NOT VERTICAL.
- SCHEDULE 40 PVC ONLY, NO EXCEPTIONS.
- ALL NEW TREES SHALL RECEIVE (2) ROOT WATERING SYSTEMS.
- CONTRACTOR SHALL ADJUST ALL HEADS TO INSURE FULL COVERAGE WITH MINIMUM OVERSPRAY ONTO PAVED SURFACES.
- IRRIGATION CONTROLLER TO BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLER THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT. (CA GREEN BUILDING STANDARDS CODE 4.304.1 IRRIGATION CONTROLLERS)
- MOUNT WIRELESS RAIN SENSOR IN LOCATION NOT BLOCKED FROM RAIN BY BUILDING OVERHANG, TREES, OR OTHER OBSTRUCTIONS.
- POINT SOURCE DRIP INSTALLED WITH SCHEDULE 40 PVC LATERAL BELOW GRADE TRANSITIONS TO 1/2" DRIP DISTRIBUTION TUBING AT SPECIFIED LOCATIONS VIA SCHEDULE 80 RISER WITH PVC BALL VALVE. LOCATE IN 6" VALVE BOX. EMITTERS PLACED ALONG DRIP TUBING NO FURTHER THAN 9" FROM STEM OF PLANT. USE 1/4" DISTRIBUTION TUBING WHERE NECESSARY. INSTALL (2) 2 GPH PER 5 GAL. SHRUB AND (1) 2 GPH EMITTERS PER 1 GAL. SHRUB.
- PRESSURE TEST ON ALL MAINLINES 4 HOURS AT 150 PSI. CALL INSPECTOR 24 HOURS PRIOR TO TEST.
- NO IRRIGATION LINES SHALL BE PLACED UNDER ROOTBALLS OF EXISTING OR PROPOSED PLANTS.
- PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES
- CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR
- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES
- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION
- A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- THE EXISTING 2" BACKFLOW DEVICE TO REMAIN. CONTRACTOR SHALL INSTALL NEW IRRIGATION SUBMETER, FLOW SENSOR, MASTER VALVE, CONTROLLER AND WIRELESS WEATHER STATION PER IRRIGATION SCHEDULE.

CONSTRUCTION FOR USE OF RECYCLED WATER NOTES

- THIS SYSTEM SHALL MEET THE FOLLOWING REQUIREMENTS FOR USE OF RECYCLED WATER. THE CONSTRUCTED SYSTEM SHALL ALSO MEET ALL STATE REQUIREMENTS FOR THE USE OF RECYCLED WATER.
- ALL RECYCLED WATER PIPING SHALL USE PURPLE COLORED AND STENCILED PIPE, PURPLE RECYCLED WATER WARNING TAPE CONTINUOUSLY APPLIED TO THE PIPE, OR MARKED PLASTIC ENCASEMENT. ALL MARKING SHALL INCLUDE THE FOLLOWING OR SIMILAR WORDS: "CAUTION: RECYCLED WATER- DO NOT DRINK."
- WARNING TAPE OR PIPE ENCASEMENT INSTALLED SHALL BE AS MANUFACTURED BY T. CHRISTY ENTERPRISES, RENCOR OR EQUAL.
- INSTALL VALVES, METERS AND APPURTENANCES IN PURPLE COLORED VALVE BOXES WITH PURPLE LIDS. THE VALVE BOX LID SHALL HAVE THE FOLLOWING WARNINGS MOLDED OR HOT-STAMPED UPON IT: "RECYCLED WATER," OR USE WARNING LABEL BY T. CHRISTY ENTERPRISES 3800 OR EQUAL.
- ALL STATION VALVES SHALL BE APPROVED FOR RECYCLED WATER. ALL BUBBLERS SHALL HAVE AN EXPOSED SURFACE COLORED PURPLE TO ASSOCIATE THEM WITH RECYCLED WATER USE. THE EXPOSED SURFACE MAY BE COLORED PURPLE THROUGH THE USE OF: (1) DYED PLASTIC OR RUBBER, OR (2) WEATHERPROOF PAINT.
- INSTALL WARNING TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES 3150 OR EQUIVALENT TO ALL SUCH CONTROL VALVES, GATE VALVES, QUICK COUPLERS, CONTROLLERS, METERS, ETC. TAGS SHALL BE WEATHERPROOF PLASTIC, 3-INCH BY 4-INCH, PURPLE COLOR WITH THE WORDS "WARNING: RECYCLED WATER- DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISO: AGUA IMPURA-NO TOMAR" ON THE OTHER SIDE, OR SIMILAR AS APPROVED BY THE CITY REPRESENTATIVE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
- EXISTING MAINLINE IN GARDEN AREA, IF IT IS SIZED PER PLAN AND PASSES PRESSURE TESTING, NEED NOT BE REPLACED. HOWEVER, TAGS SHALL BE PLACED AT EACH END OF THE PIPE WITH THE FOLLOWING INSCRIPTION: "THIS PIPE, ALTHOUGH NOT COLORED PURPLE, IS PART OF A RECYCLED WATER IRRIGATION SYSTEM. ALL WHITE PVC PIPE IS HIDDEN UNDER PAVED SURFACES AND COMPLETELY OUT OF PUBLIC VIEW."

client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

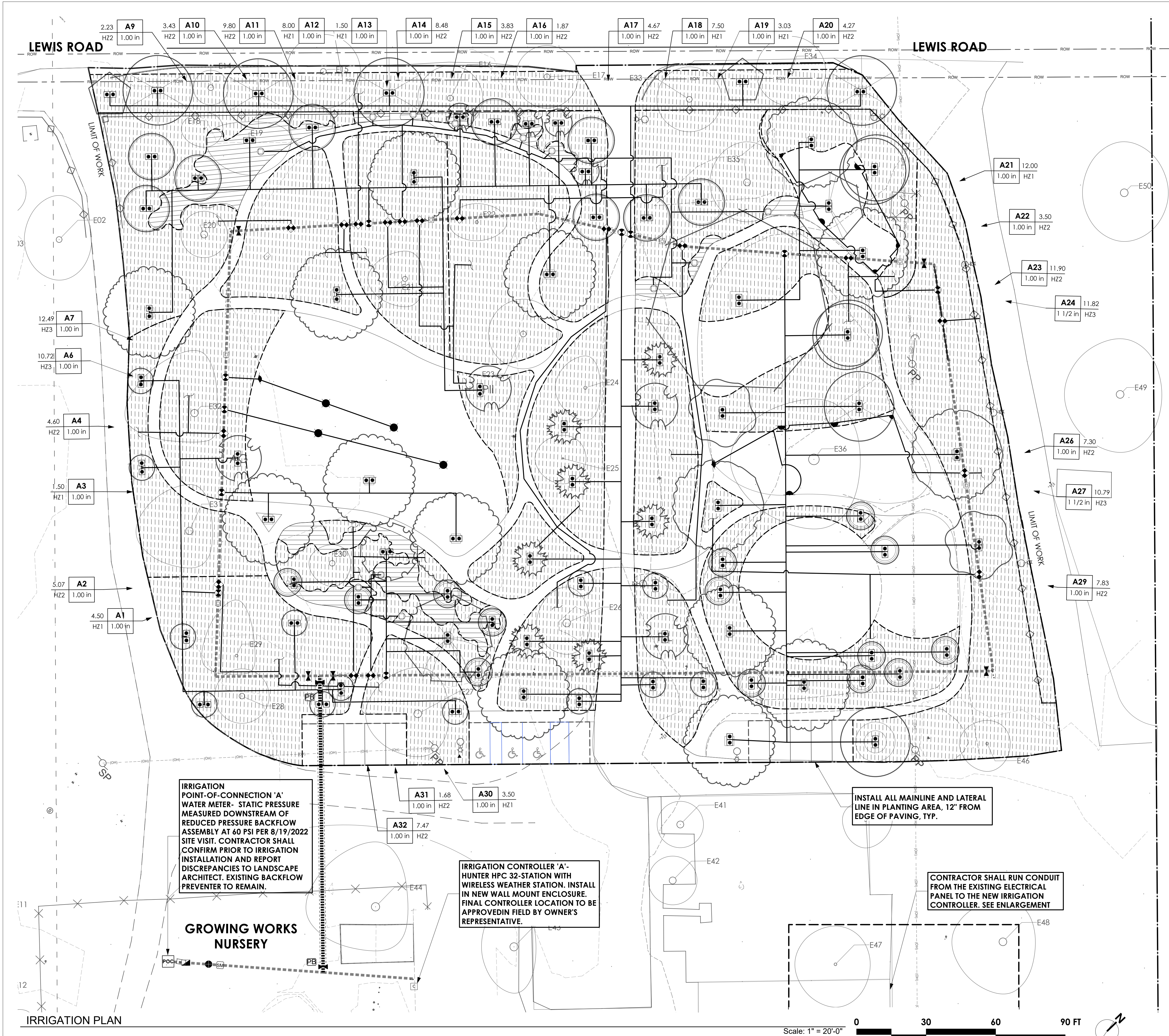
PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



IRRIGATION NOTES
+ SCHEDULES

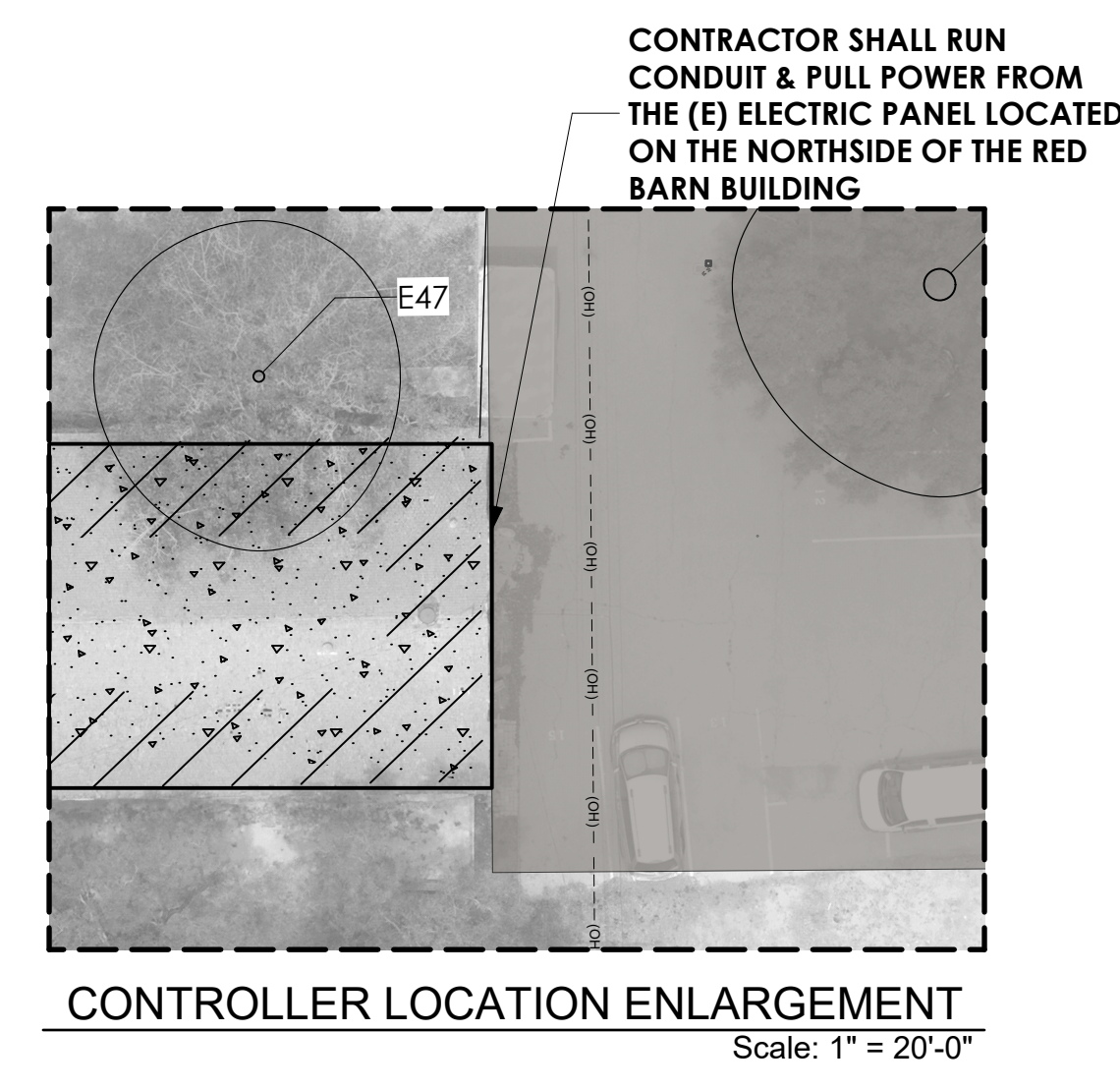
LI-0.01



IRRIGATION NOTES
1. SEE SHEET LI-0.01 FOR DETAILED IRRIGATION SCHEDULES AND NOTES.

IRRIGATION SCHEDULE	
SYMBOL	DESCRIPTION
BUBBLERS / DRIP EMITTERS	
	POINT SOURCE DRIP EMITTER
	ROOT WATERING SYSTEM - RECLAIMED
	ROTOR-MPR-90
	ROTOR-MPR-120
	ROTOR-MPR-180
	ROTOR-MPR-360
	SHRUB BUBBLER NETWORK
DRIPLINE	
	ON-SURFACE DRIPLINE
	PIPE TRANSITION POINT
VALVES	
	DRIP VALVE
	GATE VALVE
	REMOTE CONTROL VALVE- 1 1/2"
	REMOTE CONTROL VALVE- 1"
	ULTRASONIC FLOW METER VALVE ASSEMBLY
PIPE	
	LATERAL
	(N) MAINLINE
	(E) MAINLINE
	SLEEVES
POINT OF CONNECTION	
	EXISTING POINT OF CONNECTION
	(E) BACKFLOW PREVENTER
	GARDEN HOSE BIB
CONTROLLER	
	CONTROLLER
MISCELLANEOUS	
	IRRIGATION SUB METER
	PULL BOX

SEE SHEET LI-0.01 FOR FULL IRRIGATION SCHEDULE AND NOTES



Pacific Coast Land Design, Inc.
Landscape Architecture + Urban Design + Planning + Civil Engineering
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcl-d.com

client:
COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:
No. Date Revision Notes

issues:
No. Date Issue Notes
A 02/01/2023

project:

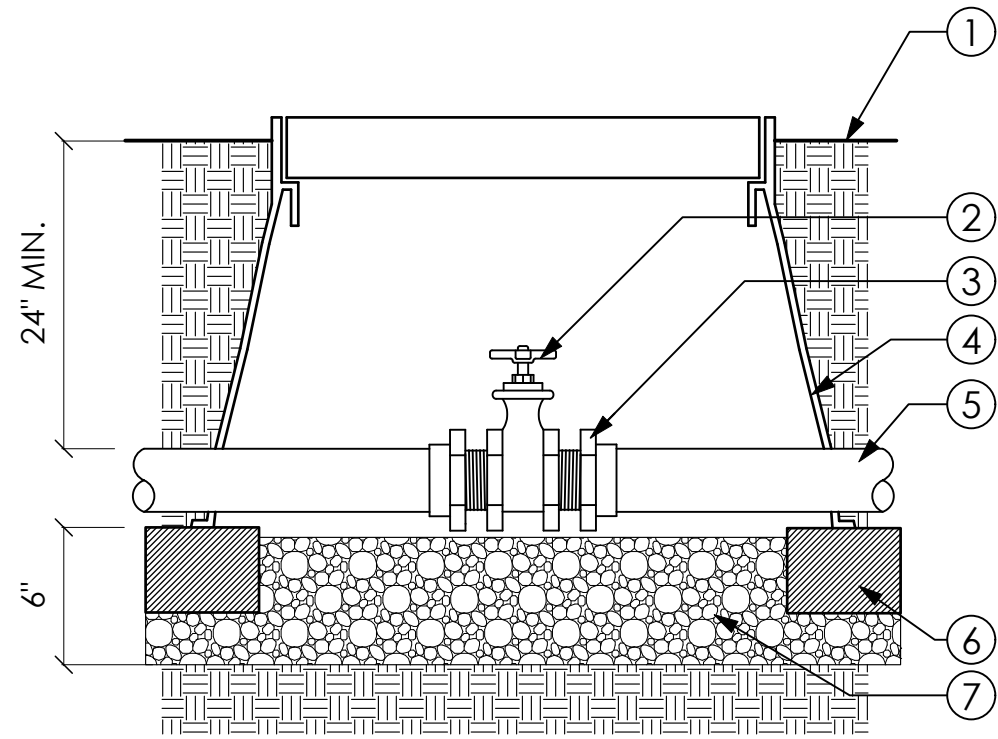
LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023
drawn by: EEB
checked by: BM
PCLD project #: 21-033
File Name: 21-033_L-Project.mxd

IRRIGATION PLAN

LI-1.01

16 OF 26



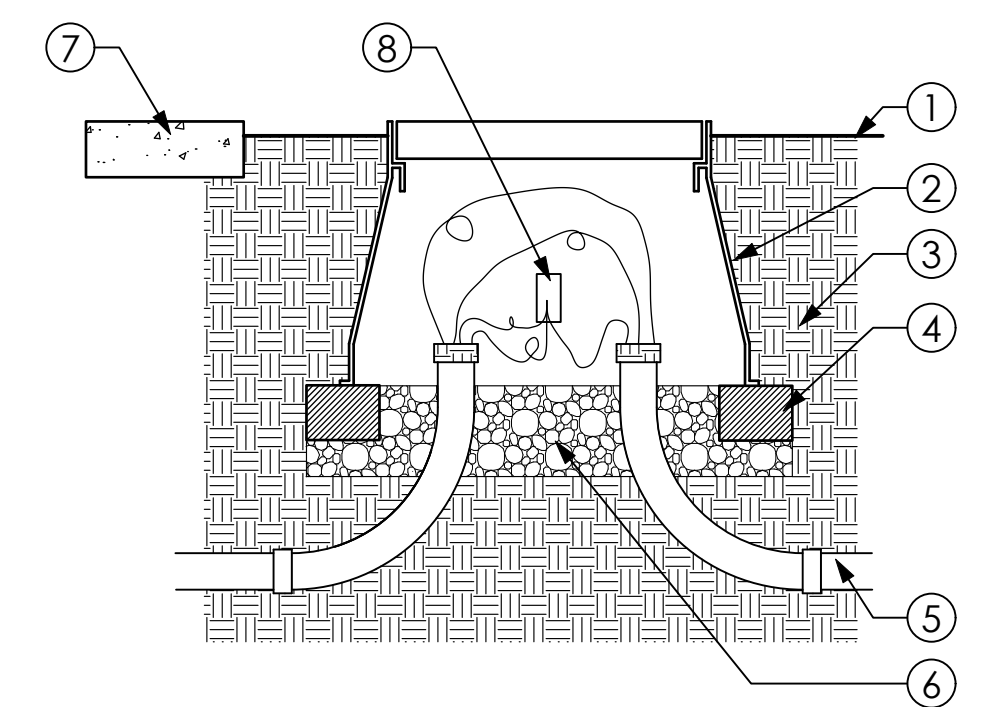
- LEGEND:**
- 1 FINISH GRADE
 - 2 GATE VALVE PER LEGEND
 - 3 PVC SCH80 MALE ADAPTER TWO (2) REQUIRED
 - 4 VALVE BOX
 - 5 PVC MAINLINE
 - 6 PROVIDE BRICK FOR BASE SUPPORT
 - 7 6" MIN. PEA GRAVEL

NOTES:

1. INSTALL VALVE BOX 1" ABOVE FINISH GRADE OR FLUSH IN PAVED AREAS
2. WRAP ALL THREADED FITTINGS W/ TEFLON TAPE

G GATE VALVE

Scale: 1" = 1'-0"



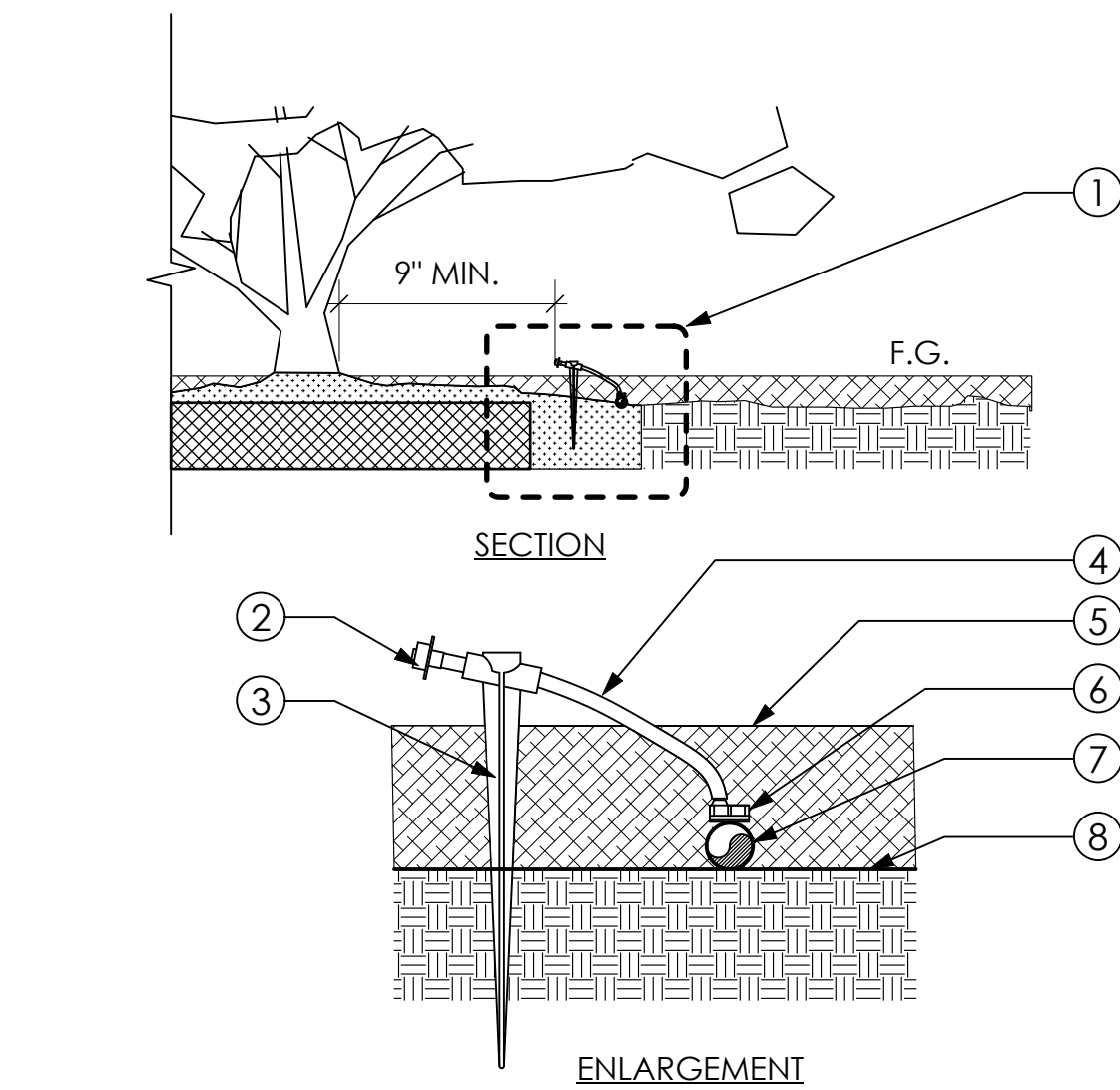
- LEGEND:**
- 1 FINISH GRADE
 - 2 VALVE BOX
 - 3 COMPACTED NATIVE BACKFILL
 - 4 PROVIDE BRICK FOR BASE SUPPORT
 - 5 ELECTRICAL CONDUIT WITH SWEEPING ELL
 - 6 6" MIN. PEA GRAVEL
 - 7 ADJACENT CONCRETE
 - 8 DBY-6 DIRECT BURIAL SPLICE KIT

NOTES:

1. INSTALL VALVE BOX 1" ABOVE FINISH GRADE OR FLUSH IN PAVED AREAS
2. MAXIMUM WIRE SIZES PER CONNECTOR ARE 3-14'S OR 2-12'S

H PULL BOX

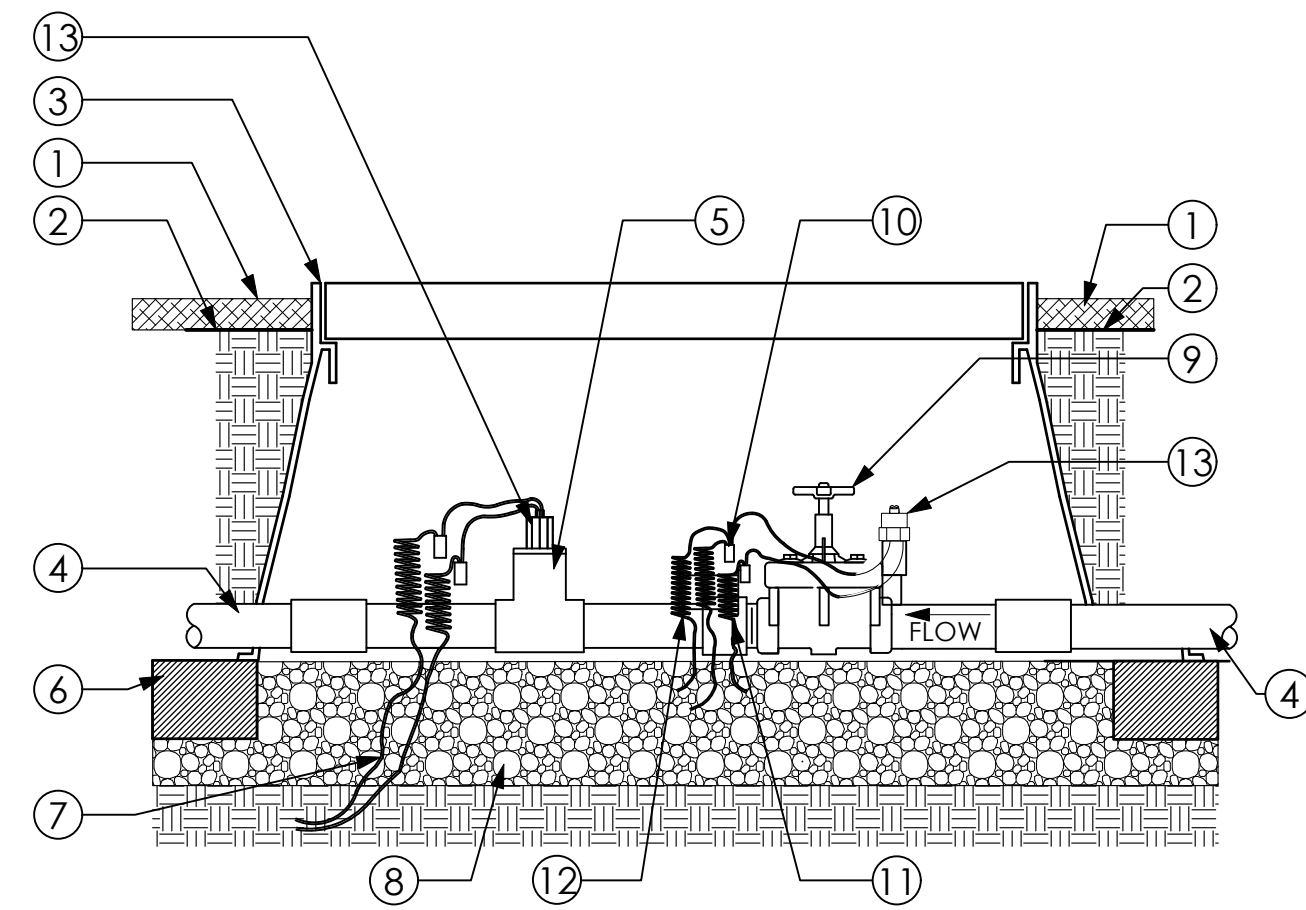
Scale: 3/4" = 1'-0"



- LEGEND:**
- 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8

I POINT SOURCE DRIP EMITTER

Scale: 1 1/2" = 1'-0"



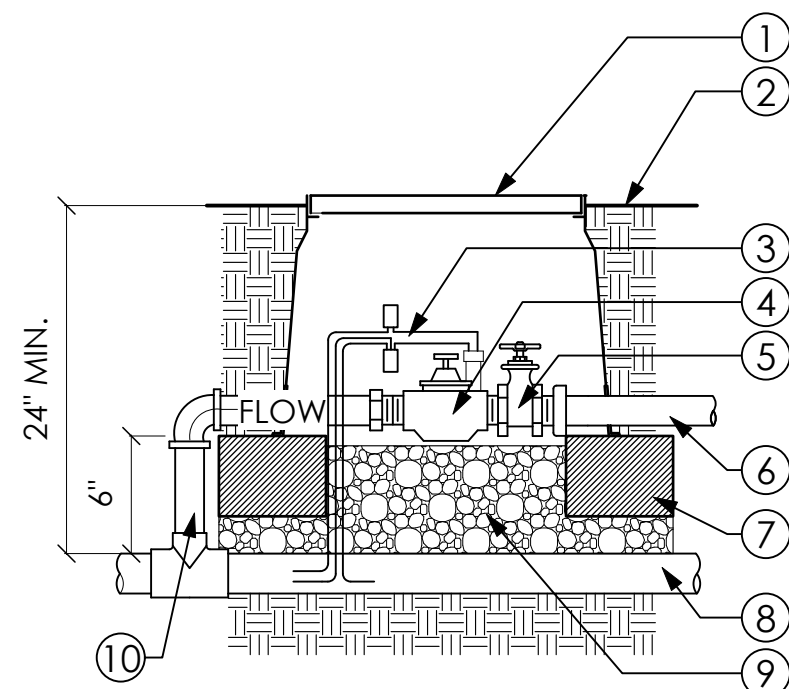
- LEGEND:**
- 1 BARK MULCH
 - 2 FINISH GRADE
 - 3 VALVE BOX
 - 4 PVC MAINLINE
 - 5 FLOW SENSOR PER LEGEND
 - 6 PROVIDE BRICK FOR BASE SUPPORT
 - 7 WIRES FROM FLOW SENSOR TO CONTROLLER PER MANUFACTURES SPECIFICATIONS
 - 8 6" MIN. PEA GRAVEL DRAIN SUMP
 - 9 ELECTRICAL MASTER CONTROL VALVE PER LEGEND
 - 10 WATERPROOF WIRE CONNECTORS
 - 11 COMMON WIRE EXPANSION CURL
 - 12 CONTROL WIRE EXPANSION CURL
 - 13 VALVE SOLENOID

NOTES:

1. INSTALL VALVE BOX 1" ABOVE TOP OF MULCH
2. WRAP ALL THREADED FITTINGS WITH TEFLON TAPE

D MASTER VALVE + FLOW SENSOR

Scale: 3/4" = 1'-0"



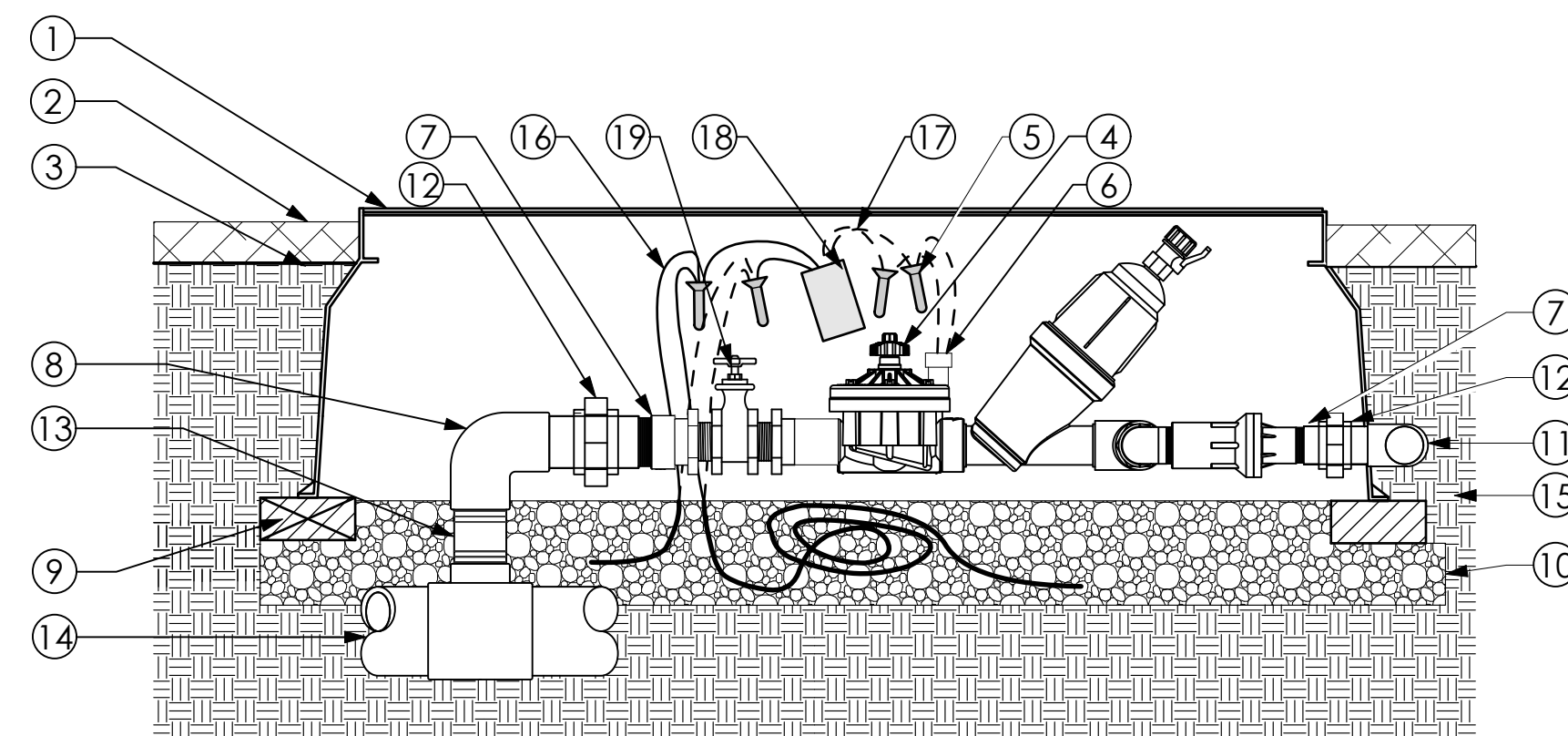
- LEGEND:**
- 1 VALVE BOX
 - 2 FINISH GRADE
 - 3 COMMON & CONTROL WIRES TO HAVE 24" LENGTH COIL AND WATERPROOF WIRE CONNECTORS
 - 4 REMOTE CONTROL VALVE PER LEGEND
 - 5 LINE SIZE GATE VALVE PER LEGEND
 - 6 PVC LATERAL LINE
 - 7 PROVIDE BRICK FOR BASE SUPPORT
 - 8 PVC MAINLINE
 - 9 6" MIN. PEA GRAVEL
 - 10 SCH 80 NIPPLE

NOTES:

1. INSTALL VALVE BOX 1" ABOVE FINSH GRADE OR FLUSH IN PAVED AREAS
2. WRAP ALL THREADED FITTINGS W/ TEFLON TAPE

E REMOTE CONTROL VALVE

Scale: 1" = 1'-0"



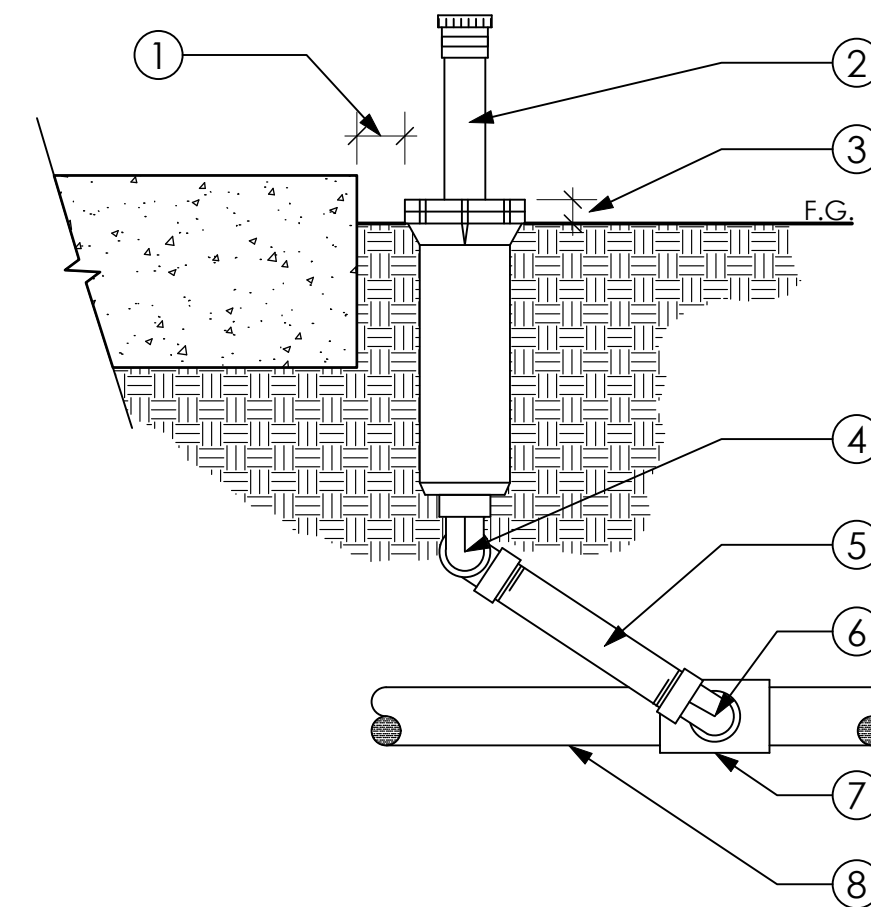
- LEGEND:**
- 1 VALVE BOX
 - 2 BARK MULCH
 - 3 FINISH GRADE
 - 4 DRIP ZONE KIT MODEL WITH BASKET FILTER REGULATOR
 - 5 WATER TIGHT CONNECTORS PER LEGEND
 - 6 VALVE SOLENOID
 - 7 SCH 80 T.O.E. NIPPLE
 - 8 1 1/2" PVC ELL
 - 9 PROVIDE BRICK BASE FOR SUPPORT
 - 10 PEA GRAVEL
 - 11 LATERAL PIPE
 - 12 PVC SLIP UNIONS (2)
 - 13 1 1/2" SCH 80 PVC RISER
 - 14 PVC MAINLINE
 - 15 COMPACTED NATIVE SUBGRADE
 - 16 LINE WIRES
 - 17 OUTPUT WIRES
 - 18 DECODER PER LEGEND
 - 19 GATE VALVE

NOTES:

1. INSTALL VALVE BOX 1" ABOVE TOP OF MULCH
2. WRAP ALL THREADED FITTINGS W/ TEFLON TAPE

F DRIP VALVE WITH PRESSURE REDUCING BASKET FILTER

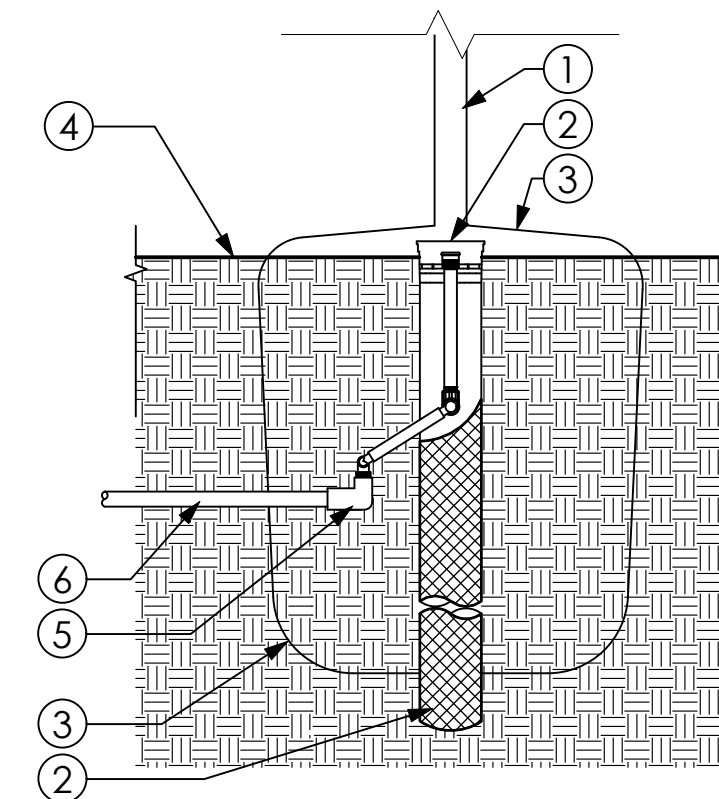
Scale: 1 1/2" = 1'-0"



- LEGEND:**
- 1 2" TO CURBS
4" TO WALKWAYS
1'-0" TO LOOP TRAIL
 - 2 POP-UP SPRINKLER HEAD OR ROTOR PER LEGEND
 - 3 1" IN TURF AREAS
1-1/2" IN MULCH AREAS
 - 4 2 MARLEX T&T STREET ELLS
 - 5 12" PVC SCH 80 NIPPLE
 - 6 MARLEX T&T STREET ELL
 - 7 SCH 80 PVC TEE
 - 8 PVC LATERAL LINE

A POP-UP SPRINKLER/ROTOR

Scale: 1 1/2" = 1'-0"



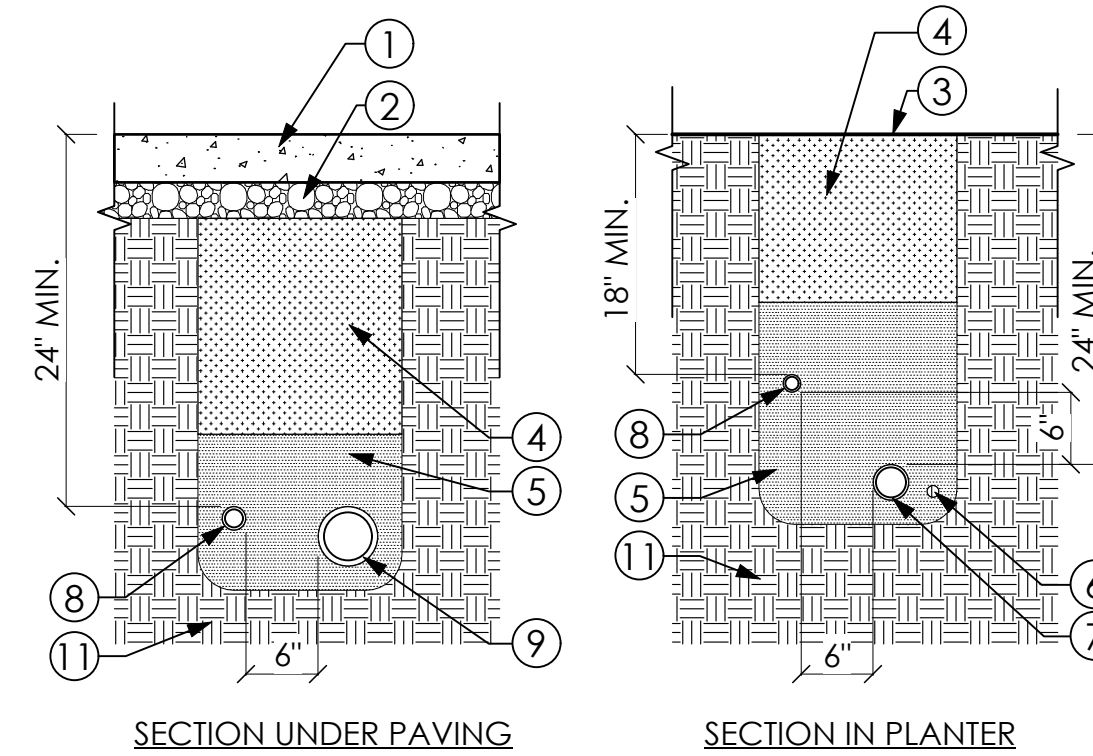
- LEGEND:**
- 1 TREE OR SHRUB STEM
 - 2 ROOT WATERING SYSTEM ASSEMBLY W/BUBBLER, RISER, SWING ASSEMBLY, AND GRATE COVER; SEE IRRIGATION LEGEND
 - 3 ROOT BALL
 - 4 FINISH GRADE
 - 5 SCH 40 PVC TEE S&T 90
 - 6 LATERAL PIPE

NOTES:

1. SET GRATE 1" ABOVE FINISH GRADE
2. SEE PLAN VIEW FOR LATERAL LINE AND BUBBLER PLACEMENT

B ROOT WATERING SYSTEM

Scale: 1" = 1'-0"



NOTES:

1. EXTEND ALL SLEEVING UNDERNEATH PAVING 12" MINIMUM INTO PLANTERS
2. MAINLINE TRENCHING UNDERNEATH TREE DRIP LINES SHALL INCLUDE ROOT PRUNING. NO ROOT OVER 2" DIAMETER SHALL BE CUT WITHOUT APPROVAL BY THE CITY ARBORIST.

C TRENCHING

Scale: 3/4" = 1'-0"

NOTE:
ALL VALVE BOXES, QUICK COUPLERS, BUBBLERS, PVC LINES, AND IRRIGATION APPURTENANCES SHALL BE PURPLE COLOR FOR RECYCLED WATER. SEE IRRIGATION SCHEDULE (LI-0.01) FOR PRODUCT DESCRIPTIONS/MODEL NUMBERS.

client:

COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



IRRIGATION DETAILS

LI-2.01

PRESSURE LOSS CALCULATION (WORST CASE)

P.O.C.: 'A' - RECLAIMED WATER		
STATION: A7		
STATIC PRESSURE:		60 PSI
GPM:		12.49
P.O.C.	DESCRIPTION	PSI
	STATIC PRESSURE MEASURED DOWNSTREAM OF	0.00
	REDUCED PRESSURE BACKFLOW ASSEMBLY	0.00
	AT 60PSI PER 8/19/2022 SITE VISIT	0.00
TOTAL		0.00
MAINLINE	2" MASTER VALVE	0.53
	1" FLOW METER	0.50
	2" MAINLINE (297 LF)	0.40
	MAINLINE FITTINGS (@ 10%)	0.04
	MAINLINE LOSS TOTAL	1.47
LATERAL	1-1/2" CONTROL VALVE	2.81
	LATERAL LINE (97 LF, SIZES PER PLAN)	2.35
	LATERAL FITTINGS (@ 23%)	0.54
	LATERAL LOSS TOTAL	5.70
REQUIRED	COMPONENT LOSS TOTAL (P.O.C.+MAINLINE+LATERAL LINE)	7.17
	REQUIRED AT HEAD	45.00
	COMPONENT LOSSES PLUS HEAD LOSS	52.17
	10% SAFETY FACTOR	5.22
	TOTAL PRESSURE REQUIRED	57.39
RESIDUAL	STATIC PRESSURE	60.00
	PRESSURE LOSS/GAIN FROM ELEVATION CHANGE (+/- 0.433 PSI/F	0.00
	TOTAL AVAILABLE PRESSURE	60.00
	RESIDUAL PRESSURE (TOTAL AVAILAIBLE - TOTAL REQUIRED)	2.61
TOTAL PRESSURE ABOVE THE MINIMUM REQUIRED		
PRESSURE REGULATOR NEEDED		

WATER EFFICIENT LANDSCAPE WORKSHEET - POC 'A'

PROJECT NAME: Lewis Road Demonstration Garden
PROJECT TYPE: Commercial
PROJECT LOCATION: Camarillo, CA
REFERENCE Eto: 55.1
TOTAL IRRIGATED LANDSCAPE AREA: 87,713 sf

Maxium Applied Water Allowance (MAWA)

MAWA = (Eto) (0.62) [(ETAF x LA) + ((1 - ETAF) x SLA)]

MAWA= Maximum Applied Water Allowance
Eto = Reference Evapotranspiration (inches per year)
0.62 = Conversion factor (to gallons per square foot)
ETAF = Evapotranspiration Adjustment Factor = 0.45 for Non-residential Areas
LA = Landscaped Area including SLA (sq ft)
SLA = Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

Applicant to fill in boxes below:

	87,713	Irrigated Landscape Area including Special Landscape Area/SLA (square feet)
	0	Portion of Landscape Area identified as Special Landscape Area (square feet)

	Eto		ETAF		AREA (sf)		Conversion		MAWA
MAWA for Total LA	55.1	x	0.55	x	87,713	x	0.62		1,648,048
MAWA for SLA*	55.1	x	0.45	x	0	x	0.62		0
Total MAWA									1,648,048 (gallons per year)

Estimated Total Water Use (ETWU)

ETWU = (Eto) (0.62) [(PF x HA) / IE + SLA)]

ETWU = Estimated Total Water Use
Eto = Reference Evapotranspiration (inches per year)
0.62 = Conversion factor (to gallons per square foot)
PF = Plant Factor from WUCOLS (see Table A)
HA = Hydrozone Area (square feet)
IE = Irrigation Efficiency (see Table B)
SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	29,821
Total Area	87,720
Average ETAF	0.34

All Landscape Areas	
Total ETAF X Area	29,821
Total Area	87,713
Sitewide ETAF	0.34

Average ETAF meets requirement for this site type.

ETWU arrived from Hydrozone Table	=	1,018,750 gallons per year	ETWU meets MAWA requirement.
-----------------------------------	---	----------------------------	------------------------------

HYDROZONE TABLE

hydrozone	plant water use	plant factor (PF)	irrigation method	irrigation efficiency (IE)	ETAF (PF/IE)	hydrozone area (HA) (sf)	ETAF X Area	% of landscape area	Hydrozone ETWU
REGULAR LANDSCAPE AREAS									
1 - Trees	low	0.2	drip	0.81	0.25	4,172	1,030	5%	35,191
2 - Shrubs	low	0.2	drip	0.81	0.25	68,791	16,986	78%	580,259
3 - Hydroseed	mod	0.6	spray	0.75	0.80	14,757	11,805	17%	403,299
Regular Landscape Area Subtotal						87,713	29,821	100%	1,018,750
SPECIAL LANDSCAPE AREAS (SLA)									
Special Landscape Area Subtotal						0	0	0%	0
Total						87,713	29,821	100%	1,018,750

Table A - PF (Plant Factor)

Cool Season Turf*	0.8	
Warm Season Turf**	0.6	
High Water Using Plants	0.8	can be between 0.7 - 0.9
Moderate Water Using Plants	0.5	can be between 0.4 - 0.6
Low Water Using Plants	0.2	can be between 0.1 - 0.3
Very Low water Using Plants	0.1	below 0.1

* species include tall fescue, ryegrass, bentgrass and kentucky bluegrass

** species include bermudagrass, zoysiagrass, st. augustinegrass

Table B - IE (Irrigation Efficiency)

Overhead Spray	0.75
Drip	0.81
*Dripline	0.85
*ECO-mat	0.89

*note: adjustment can be made based on exact type of equipment, see irrigation legend

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

Pacific Coast Land Design, Inc.
Landscape Architecture • Urban Design • Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcld.com

client:

COUNTY OF VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



IRRIGATION CALCULATIONS

LI-3.01

ANTICIPATED MONTHLY IRRIGATION SCHEDULE

valve no.		hydrozone	flow (GPM)	irr. type	irr. effcy. (IE)	area (sq.ft.)	precip rate (PR) (in/hr.)	plant factor (PF)
A1	1	Trees	4.50	RWS	0.81	452	0.96	0.2
A2	2	Shrubs	5.07	Drip emitters/Dripline	0.81	6,297	0.08	0.2
A3	1	Trees	1.50	RWS	0.81	151	0.96	0.2
A4	2	Shrubs	4.60	Drip emitters/Dripline	0.81	5,201	0.09	0.2
A5	3	Hydroseed	11.16	MP Rotators	0.75	3,470	1.27	0.6
A6	3	Hydroseed	10.72	MP Rotators	0.75	1,265	0.82	0.6
A7	3	Hydroseed	12.49	MP Rotators	0.75	2,516	0.48	0.6
A8	3	Hydroseed	14.97	MP Rotators	0.75	2,620	0.55	0.6
A9	2	Shrubs	2.23	Drip emitters/Dripline	0.81	3,475	0.06	0.2
A10	2	Shrubs	3.43	Drip emitters/Dripline	0.81	5,976	0.06	0.2
A11	2	Shrubs	9.80	Drip emitters/Dripline	0.81	3,382	0.28	0.2
A12	1	Trees	8.00	RWS	0.81	804	0.96	0.2
A13	1	Trees	1.50	RWS	0.81	151	0.96	0.2
A14	2	Shrubs	8.48	Drip emitters/Dripline	0.81	1,827	0.45	0.2
A15	2	Shrubs	3.83	Drip emitters/Dripline	0.81	4,675	0.08	0.2
A16	2	Shrubs	1.87	Drip emitters/Dripline	0.81	5,396	0.03	0.2
A17	2	Shrubs	4.67	Drip emitters/Dripline	0.81	5,306	0.08	0.2
A18	1	Trees	7.50	RWS	0.81	754	0.96	0.2
A19	1	Trees	3.03	RWS	0.81	302	0.97	0.2
A20	2	Shrubs	4.27	Drip emitters/Dripline	0.81	3,940	0.10	0.2
A21	1	Trees	12.00	RWS	0.81	1,206	0.96	0.2
A22	2	Shrubs	3.50	Drip emitters/Dripline	0.81	5,966	0.06	0.2
A23	2	Shrubs	11.90	Drip emitters/Dripline	0.81	2,973	0.39	0.2
A24	3	Hydroseed	11.82	MP Rotators	0.75	1,254	0.91	0.6
A25	3	Hydroseed	13.59	MP Rotators	0.75	1,588	0.82	0.6
A26	2	Shrubs	7.30	Drip emitters/Dripline	0.81	7,836	0.09	0.2
A27	3	Hydroseed	10.79	MP Rotators	0.75	1,936	0.54	0.6
A28	3	Hydroseed	10.42	MP Rotators	0.75	2,114	0.47	0.6
A29	2	Shrubs	7.83	Drip emitters/Dripline	0.81	3,491	0.22	0.2
A30	1	Trees	3.50	RWS	0.81	352	0.96	0.2
A31	2	Shrubs	1.68	Drip emitters/Dripline	0.81	1,283	0.13	0.2
A32	2	Shrubs	7.47	Drip emitters/Dripline	0.81	1,768	0.41	0.2
POC 'A' Total Daily Runtime								

	JAN			FEB			MAR			APR			MAY			JUNE			JULY			AUG			SEP			OCT			NOV			DEC			ANNUAL
daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	daily runtime (min.)	freq. per week	total ETWU Gallons	total ETWU Gallons				
8	1	152	9	1	180	12	1	235	8	2	312	10	2	374	10	2	409	12	2	464	11	2	443	10	2	374	14	1	270	9	1	180	7	1	139	3,532	
14	7	2,121	14	8	2,506	15	10	3,278	14	14	4,338	15	16	5,206	14	18	5,688	15	20	6,459	15	19	6,170	15	16	5,206	14	12	3,760	14	8	2,506	15	6	1,928	49,165	
8	1	51	9	1	60	12	1	78	8	2	104	10	2	125	10	2	136	12	2	155	11	2	148	10	2	125	14	1	90	9	1	60	7	1	46	1,177	
15	6	1,752	15	7	2,070	14	10	2,707	14	13	3,583	14	15	4,299	15	16	4,697	15	18	5,334	14	18	5,096	14	15	4,299	14	11	3,105	15	7	2,070	13	6	1,592	40,605	
22	7	3,786	26	7	4,475	27	9	5,852	27	12	7,745	28	14	9,294	29	15	10,155	28	17	11,532	29	16	11,015	28	14	9,294	28	10	6,712	26	7	4,475	24	6	3,442	87,778	
15	2	1,380	12	3	1,631	12	4	2,133	12	5	2,824	15	5	3,388	13	6	3,702	13	7	4,204	14	6	4,016	15	5	3,388	13	4	2,447	12	3	1,631	14	2	1,255	32,000	
13	4	2,745	12	5	3,244	13	6	4,242	15	7	5,615	14	9	6,738	14	10	7,362	14	11	8,360	15	10	7,985	14	9	6,738	13	7	4,866	12	5	3,244	12	4	2,495	63,633	
15	3	2,859	13	4	3,378	14	5	4,418	13	7	5,847	14	8	7,016	15	8	7,666	15	9	8,705	14	9	8,316	14	8	7,016	13	6	5,067	13	4	3,378	13	3	2,599	66,266	
13	9	1,170	14	10	1,383	14	13	1,809	15	17	2,394	15	20	2,873	15	22	3,139	15	25	3,565	15	24	3,405	15	20	2,873	14	15	2,075	14	10	1,383	14	8	1,064	27,134	
14	10	2,013	15	11	2,378	15	14	3,110	15	19	4,116	14	23	4,940	15	25	5,397	15	28	6,129	15	27	5,855	14	23	4,940	14	17	3,568	15	11	2,378	14	9	1,830	46,653	
13	2	1,139	11	3	1,346	14	3	1,760	14	4	2,330	13	5	2,796	14	5	3,055	14	6	3,469	13	6	3,313	13	5	2,796	12	4	2,019	11	3	1,346	12	2	1,035	26,404	
8	1	271	9	1	320	12	1	419	8	2	554	10	2	665	10	2	726	12	2	825	11	2	788	10	2	665	14	1	480	9	1	320	7	1	246	6,279	
8	1	51	9	1	60	12	1	78	8	2	104	10	2	125	10	2	136	12	2	155	11	2	148	10	2	125	14	1	90	9	1	60	7	1	46	1,177	
8	2	615	10	2	727	13	2	951	11	3	1,259	14	3	1,511	11	4	1,651	13	4	1,874	12	4	1,790	14	3	1,511	15	2	1,091	10	2	727	8	2	560	14,268	
14	7	1,575	14	8	1,861	15	10	2,433	15	13	3,221	15	16	3,865	15	17	4,223	14	20	4,795	15	19	4,581	15	16	3,865	14	12	2,791	14	8	1,861	14	6	1,431	36,502	
15	15	1,817	15	18	2,148	14	24	2,808	15	31	3,717	15	37	4,460	15	41	4,873	15	46	5,534	15	44	5,286	15	37	4,460	15	27	3,221	15	18	2,148	15	14	1,652	42,126	
15	6	1,787	15	7	2,112	14	10	2,762	14	13	3,655	14	15	4,386	15	16	4,792	15	18	5,442	14	18	5,198	14	15	4,386	14	11	3,168	15	7	2,112	13	6	1,624	41,425	
8	1	254	9	1	300	12	1	392	8	2	519	10	2	623	10	2	681	12	2	773	11	2	739	10	2	623	14	1	450	9	1	300	7	1	231	5,887	
8	1	102	9	1	120	12	1	157	8	2	208	10	2	249	10	2	272	12	2	309	11	2	295	10	2	249	14	1	180	9	1	120	7	1	92	2,355	
14	5	1,327	14	6	1,568	14	8	2,051	15	10	2,714	15	12	3,257	15	13	3,558	15	15	4,041	15	14	3,860	15	12	3,257	14	9	2,352	14	6	1,568	13	5	1,206	30,759	
8	1	406	9	1	480	12	1	628	8	2	831	10	2	997	10	2	1,090	12	2	1,237	11	2	1,182	10	2	997	14	1	720	9	1	480	7	1	369	9,419	
15	9	2,009	14	11	2,374	15	14	3,105	14	19	4,110	15	22	4,932	15	24	5,388	15	27	6,119	15	26	5,845	15	22	4,932	15	16	3,562	14	11	2,374	13	9	1,827	46,576	
10	2	1,001	11	2	1,183	10	3	1,547	13	3	2,048	12	4	2,458	13	4	2,685	15	4	3,049	14	4	2,913	12	4	2,458	11	3	1,775	11	2	1,183	9	2	910	23,211	
13	2	1,369	11	3	1,618	14	3	2,115	14	4	2,800	13	5	3,360	14	5	3,671	14	6	4,168	13	6	3,982	13	5	3,360	12	4	2,426	11	3	1,618	12	2	1,244	31,729	
15	2	1,733	12	3	2,048	11	4	2,678	12	5	3,544	14	5	4,253	13	6	4,647	15	6	5,277	14	6	5,041	14	5	4,253	13	4	3,072	12	3	2,048	13	2	1,575	40,167	
14	6	2,639	14	7	3,119	14	9	4,078	14	12	5,398	15	14	6,478	15	15	7,077	15	17	8,037	14	17	7,677	15	14	6,478	15	10	4,678	14	7	3,119	13	6	2,399	61,176	
11	4	2,112	13	4	2,496	14	5	3,264	13	7	4,320	14	8	5,184	13	9	5,664	14	10	6,432	15	9	6,144	14	8	5,184	13	6	3,744	13	4	2,496	14	3	1,920	48,962	
13	4	2,307	12	5	2,727	13	6	3,565	15	7	4,719	14	9	5,663	14	10	6,187	14	11	7,026	15	10	6,711	14	9	5,663	13	7	4,090	12	5	2,727	12	4	2,097	53,482	
12	3	1,176	14	3	1,390	13	4	1,817	14	5	2,405	14	6	2,886	13	7	3,153	13	8	3,581	14	7	3,420	14	6	2,886	12	5	2,084	14	3	1,390	11	3	1,069	27,256	
8	1	119	9	1	140	12	1	183	8	2	242	10	2	291	10	2	318	12	2	361	11	2	345	10	2	291	14	1	210	9	1	140	7	1	108	2,747	
15	4	432	14	5	511	13	7	668	14	9	884	15	10	1,060	14	11	1,159	14	13	1,316	14	12	1,257	15	10	1,060	13	8	766	14	5	511	14	4	393	10,015	
9	2	596	11	2	704	14	2	920	13	3	1,218	11	4	1,462	12	4	1,597	14	4	1,814	13	4	1,733	11	4	1,462	11	3	1,056	11	3	704	8	2	541	13,807	
6.5			6.6			7.3			6.8			7.2			7.2			7.6			7.4			7.2			7.5			6.6		6.2			993,671		
ANNUAL ESTIMATED WATER USE (gallons per year)																														993,671							

SPECIAL CONDITIONS

PART 1.0 GENERAL

PART 2.0 SCOPE OF WORK

- 2.1 The work of this Contract includes everything necessary for and incidental to executing and completing all of the work indicated on the Drawings and described in these Specifications for the Construction of Landscape Improvements, and is in strict conformance with the Drawings and Specifications prepared by:

Pacific Coast Land Design, Inc.

Landscape Architecture

3639 Harbor Blvd., Suite #107

Ventura, California 93001

t: 805.644.9697

PART 3.0 COOPERATION

- 3.1 The Contractor shall cooperate with the Owner's authority in every way, by conducting the work in sections and at such schedules as are agreed upon. In addition, the Subcontractor shall cooperate with other Subcontractors working in the same general area. Subcontractor shall minimize noise by using proper mufflers on all equipment.

PART 4.0 PROJECT SITE MAINTENANCE

- 4.1 Throughout all phases of construction, and until acceptance of the work, the Contractor shall keep the project site clean and free from rubbish and debris.
- 4.2 Costs incurred due to clean-up operations shall be as included in the prices bid for the various contract items of work and no separate payment will be made thereof.

PART 5.0 UTILITIES

- 5.1 The existence and location of any underground utility pipes or structures shown on the Drawings are obtained by a search of the available records. Approval of these plans does not constitute a representation as to the accuracy or completeness of the location or the existence or non-existence of any underground utility pipe or structure within the limits of the project site. Information related to existing utilities may be obtained from Underground Services Alert (800) 422-4133.
- 5.2 When placing concrete around or contiguous to any utility, the Contractor shall assume responsibility for costs to furnish and install a cushion of expansion joint material, clear opening or sleeve, or by other suitable means shall prevent embedment in or bonding with the concrete.

PART 6.0 OBSTRUCTIONS

- 6.1 All utility and supply lines in the field shall be located and the respective companies notified prior to job start-up. Obstructions, if encountered, shall be reported to the Owner. After authorization, such obstructions shall be removed or relocated by the Subcontractors, or the work shall be adjusted to them as directed by the Landscape Architect.

PART 7.0 STORAGE

- 7.1 The Contractor will be allowed space on grounds for the storage of his materials. However, he shall provide all necessary enclosures, doors, locks, etc., and shall take sole responsibility for the safe-keeping of all tools, materials, etc. stored therein.
- 7.2 These storage areas, rooms, or buildings shall be moved when so directed by the Owner, at the Contractor's expense. After completion of the work, they shall be completely removed and all material shall be taken from the premises, and the site shall be restored to its previous condition.
- 7.3 The Contractor shall erect all fences or guards that are required for the protection of the public and his own materials, and maintain same in good repair until the completion of all work under this contract, at his expense.

PART 8.0 ENCLOSURES AND BARRICADES

- 8.1 For the duration of the work, the Contractor shall provide, install, and maintain all lawful or necessary barricades, railings, lights, and warning signs and signals. Additionally, he shall take all other precautions as required to safeguard people and the property adjoining the site (including improvements thereon) against injuries and damages of every nature whatsoever.
- 8.2 Structures and other work in place that are subject to injury because of the operations being carried on adjacent thereto shall be covered, barricaded, boarded up, or substantially enclosed with adequate protection.
- 8.3 All forms of protection shall be such as will be deemed safe and sufficient by the Owner, the intention of the Contract being that upon completion, the entire work will be delivered to the Owner, in proper, whole, and unblemished condition.

PART 9.0 EROSION CONTROL

- 9.1 The Contractor shall be responsible for all damage that is a result of erosion from his construction area (during construction), and shall repair all such damage at his own expense to the satisfaction of the Owner. He shall construct erosion control devices such as berms, sand bags, ponding areas, etc., as is deemed necessary by the Owner. He shall remove said devices at the end of the project and restore all finish grades as shown on the Grading Plan.

PART 10.0 AIR POLLUTION

- 10.1 Contractor shall comply with all air pollution control rules, regulations, ordinances, and statutes which apply to any work performed pursuant to the Contract and shall not discharge smoke, dust, or another air contaminants into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.

PART 11.0 SANITATION

- 11.1 The Contractor shall conform to the rules and regulations pertaining to sanitary provisions as established by the State of California as may be applicable.
- 11.2 Sewage flows shall not be interrupted. Should the Contractor disrupt existing sewer facilities, sewage shall be conveyed in closed conduits and disposed of in a sanitary sewer system.

PART 12.0 NOISE CONTROL

- 12.1 Contractor shall comply with all County and local sound control and noise level regulations and ordinances which apply to any work performed pursuant to the Contract, and shall make every effort to control any undue noise resulting from the construction operation.

PART 13.0 DUST CONTROL

- 13.1 The Contractor shall abate dust nuisance by cleaning, sweeping, and sprinkling with water, or other means as necessary, and shall save the Owner free and harmless from any claim for loss or damage sustained by others and resulting from operations on the project site.

PART 14.0 PESTICIDES/HERBICIDES

- 14.1 Contractor shall comply with all rules and regulations of the Department of Food and Agriculture, the Department of Health, the Department of Industrial Relations, and all other agencies which govern the use of pesticides required in the performance of the work.

PART 15.0 DAMAGE

- 15.1 Damage to existing property (whatsoever the nature) that is caused by the Contractor shall be repaired to the Owner's satisfaction at the Contractor's expense.

PART 16.0 EXISTING CONDITIONS

- 16.1 New work shall be tied to existing conditions and controls, such as water lines, pipes, electrical lines, and buildings. Finished grades shall bear proper relationship to such controls. The Subcontractor shall adjust new work as necessary and directed, to meet existing conditions and fulfill intent of the plans.

PART 17.0 DRAINAGE

- 17.1 Surface to sub-surface water or other fluid shall not be permitted to accumulate in excavations. Should such conditions develop or be encountered, the water or other fluid shall be controlled and suitably disposed of by means of temporary pumps, piping, drainage lines and ditches, dams, or other methods as approved by Owner.

PART 18.0 CLOSING IN NON-INSPECTED WORK

- 18.1 The Contractor shall not allow or cause any of his work to be covered up or enclosed until it has been inspected, tested and approved by the Owner having jurisdiction over this work. Should any of his work be enclosed or covered up before such inspection and test, he shall uncover the work. After it has been inspected, tested and approved, backfill will be allowed as required.

PART 19.0 VERIFICATION OF DIMENSIONS

- 19.1 All scaled and figured dimensions are approximate and are given for estimating purposes only. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and sizes, etc., and shall assume full responsibility for the correctness of all such items.

PART 20.0 RECORD DRAWINGS

- 20.1 The Contractor shall provide and keep up-to-date a complete "as-built" record set.. These shall be corrected daily and show every change from the original Drawings and Specifications and the exact "as-built" locations, sizes and kinds of equipment, underground piping, valves, and all other work not visible at surface grade. Prints for this purpose may be obtained from the Owner at cost. This set of drawings shall be kept on the job and shall be used only as a record set and shall be delivered to the Owner upon completion of the work.

PART 21.0 CLEANING UP

- 21.1 The Contractor shall at all times keep the premises in and around the job free from waste materials. Upon completion of the work, he shall remove all his tools, equipment, surplus materials, and rubbish and shall leave his work clean, unless more exactly than specified. In case of a dispute, the Owner may remove rubbish and charge the cost to the Contractor.

PART 22.0 GUARANTEES

- 22.1 In addition to any specific guarantees mentioned in these specifications, the Contractor shall leave the entire installation in complete working order and free from any and all defects in material, workmanship, or finish. He shall repair, at his own expense, any part that may develop any defects due to faulty materials or workmanship during the tests and within a period of one (1) year after the work is accepted by the Owner. He shall also guarantee to repair and replace (with like materials) any existing work of the building or equipment installed by other Contractors which he damages during the repairing of such defective apparatus, material, or workmanship.

- 22.2 The signing of the Contract for the work covered by these Specifications, of which they shall become a part, shall become a written guarantee on the part of the Contractor to carry out the provisions of the Specifications.

CLEARING AND GRUBBING

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Contractor shall provide all labor, materials, and equipment for clearing and grubbing operations performed in advance of grading operations.
- B. Clearing and grubbing shall consist of removing all natural and artificial objectionable materials within the limits of construction.
- C. Except as indicated on the Drawings, materials removed shall not be incorporated in the project by the Contractor.
- D. Depressions caused by the removal of objectionable materials shall be backfilled and compacted with materials equal to the surrounding soil.

1.2 PRESERVATION OF PROPERTY

- A. Costs incurred due to repair, restoration or replacement of existing improvements which are not designated for removal which are damaged as a result of construction operations shall be the responsibility of the Contractor.
- B. Replacement shall be at least equal to the condition when Contractor entered upon the work, and shall match them in finish and dimension. Plant material shall be replaced with the same species, size, and in the original location.

1.3 REMOVAL AND DISPOSAL OF MATERIAL

- A. All materials removed shall be disposed of off-site. Burning shall not be permitted. No accumulation of flammable material shall remain on or adjacent to the project site.
- B. Abandoned pipes shall be capped or plugged.

1.4 FUEL MODIFICATION ZONES

- A. Fuel modification zones shall be as designated on the drawings and as defined by the County Fire Marshall serving the project area, including but not limited to, removal of all natural and artificial objectionable materials to soil line or per code, within the designated distance from manufactured pads.
- B. Contractor shall not commence work until a meeting, arranged forty-eight (48) hours prior to the meeting date, has been held with the Owner, Landscape Architect, and County Fire Marshall to review designated areas and define objectionable materials.
- C. On-site dumping and/or spreading of plant materials shall not be permitted to adjacent chaparral or "native" areas.

EARTHWORK

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Contractor shall provide all labor, materials, and equipment to perform all earthwork operations as shown on the Drawings and specified herein.
- B. It is the intent of the Drawings that the grading be a balanced cut and fill operation. If, during grading operations, an excess or deficiency of earth becomes apparent, Contractor shall immediately notify the Landscape Architect or Owner.
- C. The Contractor shall provide all lines and grades necessary to properly carry on the work. Any work which is not found to comply with the lines and grades shown on the Drawings shall be altered or removed and replaced by, and at the expense of, the Contractor.

1.2 PROTECTION OF PROPERTY

- A. Costs incurred due to repair or replacement of existing improvements which are not designated for removal and which are damaged as a result of construction operations shall be the responsibility of the Contractor.
- B. All bench marks, monuments, and other reference points shall remain undisturbed.

PART 2.0 PRODUCTS

2.1 ITEM OMITTED

PART 3.0 EXECUTION

3.1 GRADING OPERATIONS

- A. Finished surfaces in all cases shall conform to the lines, grades, cross-sections, and dimensions shown on the Drawings.
- B. Finish grades shall be well compacted, reasonably smooth, insure positive draining, and be free of abrupt grade changes, irregularities, water pockets and discontinuities in surface level. Grades shall flow away from structures.
- C. Sub-grade for pavements, sidewalks, curbs, gutters, or other structures shall not vary more than one-half inch (1/2") from the specified grade and cross-section.
- D. No finish grading shall be done when the moisture content of the soil is so great that excessive compaction will occur, nor when it is so dry that dust will form in the air or that clods will not break readily.
- E. All finish grading shall be completed prior to weed abatement operations and soil preparation.
- F. Finish grade adjacent to paved areas, curbs, valve boxes, and similar features shall be one inch (1") below the finished surface for turf areas and two inches (3") below the finished surface for ground cover and shrub areas.

EXCAVATION

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Excavations shall be to the dimensions and elevations indicated on the Drawings, of sufficient width to provide clearances for setting of forms and inspection of the various classifications of work.
- B. Concrete for footings shall be placed against "undisturbed soil" or compacted sub-grade which has been thoroughly wetted.
- C. Bottom of excavations shall be level, free from loose material, and free from standing water.

PART 2.0 PRODUCTS

2.1 ITEM OMITTED

PART 3.0 EXECUTION

3.1 COMPACTED FILL

- A. Fill materials shall be composed of satisfactory excavated material or approved imported soil and shall be evenly spread in uniform, continuous, horizontal layers not more than six inches (6") deep of un-compacted thickness.
- B. Each un-compacted layer shall be moistened or aerated as necessary to obtain an even moisture distribution within three percent (3%) of optimum moisture content.
- C. Each lift and the upper six inches (6") of natural soils shall be compacted to at least eighty-five percent (85%) of maximum density obtainable in areas designated for planting and at least ninety-five percent (95%) maximum density obtainable in areas designated to receive pavement, structures, and site amenities in accordance with ASTM D-1557.

3.2 BACKFILL

- A. Excavated material, approved for backfilling, shall be free from large clods, stones, and other objectionable materials exceeding three inches (3") in diameter; and deposited in accordance with the requirements for compacted fill as specified herein.
- B. Trenches that settle below grade shall be reopened to a depth required for proper compaction, refilled, and compacted to indicated surface elevation.
- C. Compaction of backfill by ponding and jetting will not be permitted.

3.3 UNSUITABLE MATERIALS

- A. Unsuitable materials shall be removed from the project site. Arrangements for disposal of the material at off-site locations shall be made with the written consent of the owner of the property upon which such material will be disposed.

SUB-BASE MATERIALS

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Contractor shall provide all labor, materials, and equipment for furnishing, spreading, and compacting sub-base materials as detailed on the Drawings and as specified herein.
- B. Contractor shall be responsible for establishing sub-grade, providing drainage, and performing weed abatement prior to placement of sub-base materials.
- C. Sub-base materials shall be spread with a sufficient moisture content to obtain a relative compaction of not less than ninety-five percent (95%). Moisture content shall be uniformly distributed throughout the material.
- D. Material shall be of such nature that it can be compacted readily under watering and rolled to form a firm, stable base that is spread in one (1) operation, free from pockets of large or fine material.

1.2 WEED ABATEMENT

- A. Contractor shall apply, in areas to be installed with sub-base materials as described in this Section, a selective pre-emergent, surface-applied herbicide. Application method shall be as recommended by manufacturer.
- B. Visible weeds shall be sprayed with a non-selective post-emergent herbicide. Application method shall be as recommended by manufacturer.

PART 2.0 PRODUCTS

2.1 AGGREGATE SUB-BASE MATERIAL

- A. Aggregate sub-base material shall consist of crushed rock and rock dust, uniformly graded with ninety percent (90%) passing three-quarter inch (3/4") sieve size and fifty percent (50%) to eighty percent (80%) passing three-eighths inch (3/8") sieve size, free from vegetable matter and other deleterious material.

2.2 SAND SUB-BASE MATERIAL

- A. Sand utilized for sub-base material shall consist of natural or manufactured granular material free of clay, deleterious amounts of organic material, broken glass, cans, or other substances not suitable for the purposes intended.

CONCRETE

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Contractor shall provide all labor, materials, and equipment to construct concrete facilities as shown on the drawings and specified herein.
- B. Concrete shall consist of portland cement, fine aggregate (sand), coarse aggregate, and water, proportioned and mixed to attain a

Pacific Coast Land Design, Inc.
Landscape Architecture • Urban Design • Environmental Planning
461 East Main Street, Ventura, CA 93001
805.644.9697 www.pcld.com

client:

COUNTY OF
VENTURA GSA
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



LANDSCAPE
SPECIFICATIONS

LS-1.01

2.2 PLASTIC PIPE

- A. Plastic pipe, where indicated on the Drawings, shall be injection molded; rigid; unplasticized polyvinyl chloride (PVC); NSF approved; of high tensile strength, chemical resistance, and impact strength; and Type 1, Grade 1, 2000 PSI hydrostatic design stress (PVC 1120).
- B. Pressure mainline piping larger than two inches (2") shall be Class 315, conforming to ASTM D-1785, with Schedule 80 solvent-weld fittings. Provide thrust blocking at all 90 degree and tee connections.
- C. Pressure mainline piping two inches (2) and less shall be PVC Schedule 40, conforming to ASTM D-1785, with PVC Schedule 40 solvent-weld fittings.
- D. Non-pressure lateral lines shall be PVC 1120, Schedule 40 conforming to ASTM D-2241 with PVC Schedule 40 solvent-weld fittings.
- E. Fittings and couplings shall be threaded PVC Schedule 80 conforming to ASTM D-2464 or slip-fitting, tapered socket, solvent-weld type, PVC Schedule 40 conforming to ASTM D-2466 or PVC Schedule 80 conforming to ASTM D-2467.
- F. Solvent cement and primer for rigid PVC solvent-weld pipe and fittings shall be of commercial quality, IAPMO approved, conforming to ASTM D-2564.

2.3 BRASS PIPE

- A. Brass pipe, where indicated on the Drawings, shall be 85% red brass, American National Standards Institute, Schedule 40 screwed pipe, conforming to Federal Specifications WW-P-351.
- B. Fittings shall be medium brass, screwed 125-pound class, conforming to Federal Specifications WW-P-460.

2.4 GALVANIZED PIPE

- A. Galvanized steel pipe, where indicated on the Drawings, shall be ASA Schedule 40-mile steel screwed pipe. Fittings shall be medium galvanized screwed beaded malleable iron.
- B. All galvanized pipe and fittings installed below grade shall be painted with two (2) coats of Koppers #50 Bitumastic, or approved equal. Pipes may be wrapped with an approved asphaltic tape.

2.5 BACKFLOW PREVENTION UNIT

- A. Backflow prevention unit shall be factory assembled and shall be as indicated in the Irrigation Legend and Details on the Drawings, or approved equal.

2.6 REMOTE CONTROL VALVES

- A. Remote control valves shall be solenoid activated, of the type, manufacturer, and size as indicated in the Irrigation Legend on the Drawings.
- B. Each remote control valve, except for anti-siphon valves, shall be installed in a separate valve box, and as indicated in the Details on the Drawings.

2.7 PLASTIC, DRIP ZONE KITS

- A. Molded-plastic body, normally closed, diaphragm type with manual-flow adjustment, and operated by 24-V ac solenoid. Pressure-regulating basket filter, regulating to 40 psi maximum.

2.8 CONTROLLERS AND WIRING

- A. Controller shall be the type and manufacturer as indicated in the Irrigation Legend on the Drawings, or approval equal.
- B. Connection between the controller and the remote control valves shall be made with direct burial copper wire, #14 AWG, Type U.F., 600 volt. Wire shall be PVC insulated of single conductor type, underground feeder cable, U.L. approved.
- C. Pilot wires shall be a different color for each valve. Common wires shall be white with a different color stripe for each automatic controller.
- D. Wire shall be buried a minimum of eighteen inches (18") in depth and whenever possible shall occupy the same trench; bundled and secured to irrigation mainlines at ten foot (10') intervals with plastic electrical tape, providing sufficient slack for expansion and contraction if wire is not in PVC conduit.
- E. Wire for slope systems shall be installed in a PVC sleeve laid adjacent to the on-grade pipes.
- F. An expansion curl shall be provided within three feet (3') of each wire connection and change of direction, and at least every one-hundred feet (100') of wire length on longer runs.
- G. All splices shall be made with Scotch-Lock #3576 Connector Sealing Packs, Rain Bird Pen-Tite wire connector, or approved equal. Use one (1) splice per connector sealing pack. Wire splices shall be located in pull boxes set one inch (1") above finish grade.
- H. Field splices between the controller and remote control valves will not be permitted.

2.9 IRRIGATION HEADS

- A. Irrigation heads shall be of the manufacturer, size, type, and rate of precipitation with the diameter (or radius) of throw, pressure, and discharge as specified in the Irrigation Legend, or approved equal, and installed as indicted in the Details on the Drawings.
- B. Riser units shall be oriented perpendicular to the finish grade, installed as indicated in the Details on the Drawings and specified herein, with nipples of the same size as the riser opening in the Irrigation head.
- C. Spacing of heads shall not exceed the maximum shown on the Drawings and in no case exceed the maximum spacing recommended by the manufacturer.

2.10 SUB-SURFACE DRIP TUBES WITH DIRECT ATTACHED EMITTERS

- A. Tubing: Flexible PE or PVC with plugged end.
- B. Emitters: Devices to deliver water at approximately 20 psi.
- Body Material: PE or vinyl, with flow control.
 - Mounting: Inserted into tubing at set intervals

2.11 VALVE BOXES

- A. Gate valve and remote control valves, except for anti-siphon valves, shall be installed below grade as indicated in the details on the

Drawings, in lockable valve boxes manufactured by Brooks, Fraser, Ametek, or approved equal.

- B. Valve box lids shall be green in color. Gate valves shall be identified by stamping "GV" in white on the valve box cover. Remote control valves shall be identified by stenciling "RCV" and station number in white on the valve box cover.
- C. Valve boxes shall be set one inch (1") above finish grade, with valves set at sufficient depth to provide clearance between the cover and valve.

2.12 GATE VALVES

- A. Gate valves shall be as indicated in the Irrigation Legend on the Drawings, or approved equal, and installed as indicated in the Details on the Drawings.
- B. The operating unit shall be line-sized and have an arrow cast in the metal indicating the direction of the opening. Valve shall conform to American Water Works Standards.
- C. Valves shall be designed to permit dismantling to replace sealing components without removal of the valve body from the pipeline.
- D. Valves shall be installed with operating nuts.

2.13 QUICK COUPLING VALVES

- A. Quick coupling valve shall be as indicated in the Irrigation Legend on the Drawings, or approved equal, and installed as indicated in the Details on the Drawings, with a molded vinyl locking yellow cover. Coupler keys and hose ells shall be of the same manufacturer as the valve.

2.14 ANTI-DRAIN VALVES

- A. Where indicated on the Drawings, and as needed for field conditions, anti-drain valves shall be line-sized and installed on the riser directly under the irrigation heads.
- B. Anti-drain, spring check, and elevational compensating valves shall be of heavy duty PVC construction with a thread inlet and outlet. Internal components shall be stainless steel and neoprene. Anti-drain valve shall be field adjustable against drawout from five feet (5') to forty feet (40') of head, factory-set at twelve feet (12.)

2.15 WATER SUPPLY

- A. The Contractor shall arrange for the provision of the water supply.
- B. The Contractor shall connect to the water source as indicated on the drawings.

2.16 ELECTRICAL

- A. Power sources shall be indicated on the Drawings. The Contractor shall connect at the point shown on the Drawings.
- B. The Contractor shall be responsible for making electrical connections to the automatic controllers.

2.17 GATE VALVES

- A. Gate valves shall be as indicated in the Irrigation Legend on the Drawings, or approved equal, and installed as indicated in the Details on the Drawings.
- B. The operating unit shall be line-sized and have an arrow cast in the metal indicating the direction of the opening. Valve shall conform to American Water Works Standards.
- C. Valves shall be designed to permit dismantling to replace sealing components without removal of the valve body from the pipeline.
- D. Valves shall be installed with operating nuts.

2.18 QUICK COUPLING VALVES

- A. Quick coupling valve shall be as indicated in the Irrigation Legend on the Drawings, or approved equal, and installed as indicated in the Details on the Drawings, with a molded vinyl locking yellow (purple for reclaimed) cover. Coupler keys and hose ells shall be of the same manufacturer as the valve.

2.19 WATER SUPPLY

- A. The Contractor shall arrange for the provision of the water supply.
- B. The Contractor shall connect to the water source as indicated on the drawings.

2.20 ELECTRICAL

- A. Power sources shall be indicated on the Drawings. The Contractor shall connect at the point shown on the Drawings.
- B. The Contractor shall be responsible for making electrical connections to the automatic controllers.

PART 3.0 EXECUTION

3.1 TRENCHES

- A. Trenches shall be dug straight, and pipe shall have continuous support for the ditch bottom and shall be laid to an even grade. Trenching excavation shall follow the layout indicated on the Drawings.
- B. All pressure supply lines shall have a depth of eighteen inches (18") minimum.
- C. All non-pressure supply lines shall have a depth of twelve inches (12") minimum.
- D. All lines shall have a minimum clearance of six inches (6") from each other and from lines of other trades.
- E. No line shall be installed directly over another line.

3.2 INSTALLATION

- A. Pipe shall be cut square and the ends reamed out to the full inside diameter of the pipe and thoroughly cleaned of dirt, dust, and moisture before installation.
- B. PVC pipe shall be protected from tool damage during assembly. Plastic pipe which has been nicked, scarred, or damaged shall be removed and replaced at the Contractor's expense.
- C. PVC solvent-weld joints shall be made in accordance with ASTM D-2855. Pipe shall not be exposed to water for twenty-four (24) hours after solvent-weld joints are completed.
- D. Trenches shall be of open vertical construction to appropriate depths as indicated on the Drawings and specified herein. PVC pipe shall be

laid on a uniform compacted grade, free of rocks or sharp edged objects, and snaked from side to side in the trench to allow for expansion and contraction.

- E. Teflon tape shall be used on all threaded PVC to PVC and on all threaded PVC to metal joints.
- F. Brass pipe and fittings shall be assembled using Teflon dope, applied to the male threads only.
- G. Galvanized pipe threads shall be cut with clean, sharp dies, conforming to American Standards Association Specification B-2. Male pipe threads shall be coated with a non-toxic, non-hardening, non-corrosive joint compound.
- H. Galvanized pipe installed on grade shall be anchored at intervals not to exceed ten feet (10'), with #4 rebar, with a "J" hooked radius. Irrigation heads shall be installed perpendicular to the slope and staked as indicated in the Details on the Drawings.
- I. PVC pipe installed on grade shall be anchored at intervals not to exceed five feet (5'), with #4 rebar, with a "J" hooked radius. Irrigation heads shall be installed perpendicular to the slope and staked as indicated in the Details on the Drawings.
- J. Irrigation lines and control wiring shall be installed under paving in separate PVC Schedule 40 sleeves. Sleeves shall be installed with the coverage depths as specified herein.
- K. Piping under existing pavement may be installed by jacking, boring, or hydraulic driving, except that no hydraulic driving will be permitted under asphaltic concrete pavement. Where cutting or breaking of existing pavement is necessary, obtain permission from the Owner before cutting or breaking pavement and then make all necessary repairs and replacements to the approval of the Owner, and at no additional cost to the Owner.
- L. Valve box lids shall be BLACK in color unless located in turf areas where they shall be GREEN in color. Lids shall be PURPLE when part of a reclaimed/recycled water system. Gate valves shall be identified by stamping "GV" in white on the valve box cover. Remote control valves shall be identified by stenciling "RCV" and station number in white on the valve box cover.
- M. Valve boxes shall be set one inch (1") above finish grade, with valves set at sufficient depth to provide clearance between the cover and valve.

3.3 ADJUSTING AND TESTING THE SYSTEM

- A. Contractor shall furnish all equipment, materials, and labor to conduct pipeline pressure tests, coverage tests, and operational tests. All tests shall be made in the presence of the Landscape Architect and Owner prior to planting operations. Trenches shall not be backfilled until the pipeline pressure tests have been performed to the satisfaction of the Landscape Architect and Owner.
- B. After completion of the pipeline assembly, prior to installation of terminal fittings, including but not limited to remote control valves and quick couplers, entire system shall be thoroughly flushed to remove dirt, scale, or other deleterious material.
- C. With open ends capped, test pressure supply lines for six (6) hours at 150 PSI. Center load PVC pipe with a small amount of backfill to prevent arching and whipping under pressure.
- D. Coverage test shall demonstrate that each station area is balanced to provide uniform and adequate coverage.
- E. Operational test shall demonstrate the performance and operation of all components of the controller system. Remote control valves shall be properly balanced, heads adjusted for coverage, and system shall be workable, clean, and efficient.
- F. Contractor shall be responsible for correcting any portions of the work that are not properly installed and re-testing until installation has been accepted by the Landscape Architect and Owner.

3.4 INSPECTIONS

- A. Contractor shall be responsible for correcting any portions of the work twenty-four (24) hours in advance for the following inspections:
- System Layout
 - Pressure Pipeline Tests
 - Coverage Tests
 - Operational Test (prior to commencing planting operations)

3.5 BACKFILLING

- A. Backfill for trenching shall be compacted to dry density equal to the adjacent undisturbed soil, and shall conform to the adjacent grades. Initial backfill on all lines shall be of a fine granular material with no foreign matter larger than one-half inch (1/2") in size.
- B. Trenches located under areas where paving or concrete will be installed shall be backfilled with a six inch (6") layer of sand below the pipe and three inches (3") above the pipe.
- C. If, in the opinion of the Landscape Architect, the excavated material is not satisfactory for use as backfill, the Contractor shall dispose of the unsatisfactory material off site and import an approved material.
- D. The Contractor shall be responsible for any settling of trenches from his work and shall provide additional backfill material to match adjacent undisturbed soil.

3.6 COMPLETION CLEAN-UP

- A. Upon completion of works the Contractor shall remove excess materials, rubbish, debris, etc., and his construction and installation equipment from the premises.

3.7 AS-BUILT AND RECORD DRAWINGS

- A. Contractor shall maintain and keep up to date one (1) set of bluelines showing the "as-built" location of major features of the project and indicating changes that may occur during installation.
- B. Prior to acceptance of the work, Contractor shall furnish the Owner with one (1) set of reproducible plans as the Record Set showing the as-built data, or a quality satisfactory to the Owner. Transfer as-built data in ink (no ball point pen or pencil) and eradicate outdated items.
- C. Dimension from two (2) permanent points of reference (buildings, monuments, sidewalks, curbs, pavement) of the location of the following items:

- Point of connection to existing water lines.
- Point of connection to existing electrical power.
- Gate vales.
- Routing of irrigation pressure lines (dimensions, maximum one hundred feet [100'] along route.)
- Remote control valves.
- Routing of control valves.
- Quick coupling valves.
- Other related equipment as requested by the Owner.

- D. Contractor shall submit As-Built/Record Drawings to the Landscape Architect and Owner for review prior to completing Controller Charts.

3.8 MATERIALS TO BE FURNISHED

- A. Contractor shall furnish the Owner the following materials at the end of construction, prior to the Post-Installation Maintenance Period:
- B. Two (2) sets of special tools required for removing, disassembling, and adjusting each type of sprinkler and valve supplied on the project.
- C. Two (2) five foot (5') valve keys for operating gate valves.
- D. Two (2) keys for each controller.
- E. One (1) quick coupler key and matching hose swivels for each quick coupler valve installed.
- F. One (1) set each approved As-Built and Record Drawings.
- G. Two (2) sets each approved controller diagrams.

3.9 CONTROLLER CHARTS

- A. Contractor shall provide two (2) controller charts for each controller supplied. The controller charts shall show the area controlled and shall be the maximum size which the controller door will allow. The controller charts shall be a photographic print with a different color indicating the area of coverage for each station. When completed and approved, the controller charts shall be completely hermetically sealed between two (2) pieces of transparent plastic, each being a minimum of twenty (20) mils thick.

3.10 OPERATION AND MAINTENANCE MANUALS

- A. Prepare and deliver four (4) individually bound copies of the Operation and Maintenance Manual to the Owner at least ten (10) calendar days prior to acceptance of the work. The Manual shall include descriptive material of equipment installed and shall be in sufficient detail for maintenance personnel to understand, operate, and maintain all equipment. Each complete, bound manual shall include the following:
- B. Index sheet stating Contractor's address and telephone number, list of equipment with names and addresses of manufacturer's local representatives.
- C. Catalog and parts sheets on all material and equipment installed.
- D. Guarantee statement.
- E. Complete operating and maintenance instructions.

3.11 CONTRACTOR GUARANTEE FOR SPRINKER IRRIGATION SYSTEM

- A. We hereby guarantee that the sprinkler irrigation system we have furnished and installed is free from defects in materials and workmanship and the work has been completed in accordance with the drawings and specifications, ordinary wear and tear and unusual abuse, or neglect excepted. We agree to repair or replace any defects in material or workmanship which may develop during the period of one (1) year from date of acceptance and also to repair or replace any damage resulting from the repairing or replacing of such defect(s) at no additional cost to the Owner. We shall make such repairs or replacements within a reasonable time after receipt of written notice from the Owner. We authorize the Owner to proceed to have said repairs or replacements made at our expense and we will pay the costs and charges therefore upon demand.

PROJECT: _____

LOCATION: _____

SIGNED: _____

Contractor Signature License No.

ADDRESS: _____

PHONE NUMBER: _____

DATE OF ACCEPTANCE: _____

PLANTING

PART 1.0 GENERAL

1.1 DESCRIPTION

- A. Contractor shall provide all labor, materials, and equipment for the installation of plant material as shown on the Drawings and as specified herein.
- B. Contractor shall coordinate planting with other site improvements. Unless otherwise specified, structural improvements shall be constructed prior to planting operations.
- C. Contractor shall be responsible for locating and staking existing sewer, water, and utility lines above or below grade that might be damaged as a result of planting operations. Contractor shall assume sole responsibility for any cost incurred due to damage and for replacement of aforementioned utilities.
- D. All work on the irrigation system, including hydrostatic and coverage tests, operational tests, and the backfilling and compaction of trenches shall be performed prior to planting operations.
- E. Samples of fertilizers, soil conditioners, seed, or other materials requested by the Landscape Architect or Owner shall be submitted for inspection five (5) working days prior to incorporation in the work.
- F. An agricultural suitability and fertility analysis (soils report) shall take precedence over these Specifications.

client:

**COUNTY OF
VENTURA GSA**
11201 RIVERBANK DRIVE, STE. A1

revisions:

No. Date Revision Notes

issues:

No. Date Issue Notes

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN
1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



**LANDSCAPE
SPECIFICATIONS**

LS-1.04

client:

**COUNTY OF
VENTURA GSA**
11201 RIVERBANK DRIVE, STE. A1

revisions:

No.	Date	Revision Notes
-----	------	----------------

issues:

No.	Date	Issue Notes
-----	------	-------------

A 02/01/2023

project:

LEWIS ROAD DEMONSTRATION GARDEN

1736 SOUTH LEWIS ROAD CAMARILLO, CA 93012

date: 02/01/2023

drawn by: EEB

checked by: BM

PCLD project #: 21-033

File Name: 21-033_L-Project.vwx



**LANDSCAPE
SPECIFICATIONS**

LS-1.06

(48) hours. Dead weeds shall be removed seven (7) days after application and disposed of off-site.

- D. If the Owner notifies the Contractor of failure to control weeds as specified herein, the Contractor shall kill all weeds within ten (10) calendar days of such notification. The Post-Installation Maintenance period will be extended for every day after the ten (10) calendar days until such weeds have been killed.

3.2 IRRIGATION SYSTEM

- A. Contractor shall operate the irrigation system automatically and shall properly and completely maintain all parts of the irrigation system.
B. Contractor shall provide for delivery of water in sufficient quantities and adjust water application to compensate for seasonal conditions.
C. Costs incurred due to repair or replacement of equipment shall be the responsibility of the Contractor. Replacement parts shall be identical to the material specified herein and on the Drawings.

3.3 TREES

- A. If required, and at the discretion of the Landscape Architect, trees planted as part of the Contract shall be pruned or headed back to eliminate diseased or damaged growth, reduce toppling or wind damage, maintain growth within space limitations, maintain natural appearance, repair vandalism, and balance the crown with the root structure.
B. Staking of trees shall be checked frequently for damage, and to prevent chafing or girdling. Costs incurred due to damage or replacement of staking materials shall be the responsibility of the Contractor.
C. As approved by the Landscape Architect or Owner, all wounds over one and one-half inches (1-1/2") in diameter shall be sealed with a tree seal.
D. Dead or dying trees shall be immediately replaced with material of the same species and size and guaranteed as described in these specifications.
E. Contractor shall not use "weed-eaters" near tree trunks. Costs incurred due to damage or replacement of trees due to improper measures shall be the responsibility of the Contractor.

3.4 GROUND COVER AREAS

- A. If a soils report is not included in these specifications, ground cover areas shall be fertilized with Gro-Power Hi-Nitrogen 14-4-9 every forty-five (45) calendar days, at the rate of seven and one-quarter (7-1/4) pounds per one-thousand (1,000) square feet. No fertilizer shall be applied during the months of September through February.

3.5 SLOPES

- A. Slopes, if hydroseeded, shall be established with a uniform eighty percent (80%) seed germination, healthy, vigorous growth. Costs incurred for repair or replacement of bare, sparse, or damaged areas shall be the responsibility of the Contractor.
B. Seed for replacement shall be of the same type and quantity ratio as specified in the Plant List on the Drawings.
C. If a soils report is not included in these Specifications, slopes shall be fertilized with Gro-Power Hi-Nitrogen 14-4-9 every forty-five (45) calendar days, at the rate of seven and one-quarter (7-1/4) pounds per one-thousand (1,000) square feet.

3.6 TURF

- A. Turf areas shall be established with a uniform eighty percent (80%) seed germination, healthy, vigorous growth and to a minimum of two inches (2") in height. Costs incurred for repair or replacement of bare, sparse, or damaged areas shall be the responsibility of the Contractor.
B. If a soils report is not included in these Specifications, turf areas shall be fertilized with Gro-Power Hi-Nitrogen 14-4-9 every forty-five (45) calendar days, at the rate of seven and one-quarter (7-1/4) pounds per one-thousand (1,000) square feet. No fertilizer shall be applied during the months of September through February.
C. First mowing of turf shall be performed when the grass is two and one-half inches (2-1/2") in height. After initial mowing, turf shall be cut as often as necessary to maintain the turf at a height of two inches (2") for bluegrass and drought tolerant species (i.e. marathon) and one inch (1") for bermuda.
D. Contractor shall trim around irrigation heads to allow for unimpeded spray; at the base of trees; and at borders along walks, mowstrips and curbs.
E. Contractor shall remove all grass clippings from project site.

3.7 FINAL INSPECTION FOR ACCEPTANCE

- A. Upon completion of the Post-Installation Maintenance Period, Contractor shall request an inspection for acceptance of the work performed in accordance with the Contract documents. The request shall be made to the Owner and Landscape Architect, in writing, a minimum of seven (7) calendar days prior to the date for inspection.

3.8 GUARANTEE

- A. All trees, shrubs, and plant material less than fifteen (15) gallon size shall be guaranteed for a period of three (3) months; fifteen (15) gallon sizes and larger shall be guaranteed for a period of one (1) year. All guarantee periods commence from the time of final acceptance by the Landscape Architect/Owner.
B. Plants used for replacements shall be the same kind and size as originally planted. They shall be furnished, planted, and fertilized as specified and guaranteed.

3.9 REPAIR

- A. Damage to planting areas shall be repaired immediately.
B. Depressions caused by vehicles, equipment and foot traffic shall be filled with soil, leveled, and replanted.
C. Exterminate gophers and moles, repair damage as above.

3.10 CLEAN-UP

- A. All planted areas shall be kept free of debris and shall be cultivated and weeded at not more than ten (10) day intervals, and again sixty (60) days after job completion.
B. At completion of the maintenance period, all areas included in the contract shall be clean and free of debris and weeds; all plant materials shall be live, healthy, and free of infestation.

3.11 FERTILIZING

- A. Bandini "GRO-Pellets" (11-8-4) shall be applied at the rate of 20 pounds per 1,000 Sq. Ft. to all planting areas 25 and 55 days after the maintenance period is initiated. For bidding purposes only, see soil analysis report.