

**HOW TO VIEW THE MEETING:** No physical location from which members of the public may observe the meeting and offer public comment will be provided.

**HOW TO PARTICIPATE BEFORE THE MEETING:** Members of the public are encouraged to submit email correspondence to [revans@malibucity.org](mailto:revans@malibucity.org) before the meeting begins.

**HOW TO PARTICIPATE DURING THE MEETING:** Members of the public may also speak during the meeting through the Zoom application by clicking the Raise Hand link at the bottom of the Zoom screen when the Chair calls the item. You must be present in the Zoom conference to be recognized.

Please visit <https://malibucity.org/VirtualMeeting> and follow the directions for downloading and using the Zoom application.

## **Malibu Environmental Review Board** **Meeting Agenda**

**Wednesday, June 12, 2024**

**9:00 A.M. – ENVIRONMENTAL REVIEW BOARD MEETING**  
**VIA TELECONFERENCE ONLY**

**Zoom Meeting Link:**

<https://us02web.zoom.us/j/86757417451>

**1. Written and Oral Communications from Staff and the Board**

**2. Old Business**

None.

**3. New Business**

- A. Coastal Development Permit No. 22-030 – An application to construct a 7,096-foot long, 12-inch diameter, watermain that will connect to the Las Virgines Municipal Water District to be used in times of emergency

Application Filing Date:	June 13, 2022
Owner:	City of Malibu
Applicant:	County of Los Angeles
Location:	Within Public Right-of-Way along Encinal Canyon Road
Nearest APN:	4473-008-033 – Northern City Limits
Nearest Zoning:	Rural Residential, Five-Acre
Case Planner:	Senior Planner Eaton, 456-2489, ext. 273

Recommended Action: Review the proposed project and provide recommendations for the Planning Commission's consideration.

**Adjournment**

**Guide to the Meeting Proceedings**

**The Environmental Review Board meeting will be open and public but conducted virtually because the Board is not a Brown Act body.**

**Old Business** items have appeared on previous agendas but have either been continued or tabled to this meeting with no final action having been taken. Applicants will be given 15 minutes to present their position to the Board. Members of the public wishing to speak will be limited to three (3) minutes. Members of the public wishing to speak during the meeting must participate through the Zoom application and click the raise hand button at the bottom of the Zoom screen when the item has been called by the Chair.

**Items in New Business** are items which are appearing for the first time for formal action. Applicants will be given 15 minutes to present their position to the Board. Members of the public wishing to speak will be limited to three (3) minutes. Members of the public wishing to speak during the meeting must participate through the Zoom application by clicking the Raise Hand link at the bottom of the screen when the Chair calls the item. Visit <https://malibucity.org/VirtualMeeting> and link to Zoom Video Tutorials prior to the meeting if you are a first-time user.

*Copies of the staff reports or other written documentation relating to each item of business described above are available at <https://www.malibucity.org/agendacenter>. Requests to show an audio or video presentation during a Board meeting should be directed to [media@malibucity.org](mailto:media@malibucity.org). Material must be submitted by 12:00 p.m. on the day prior to the meeting.*

*I hereby certify under penalty of perjury, under the laws of the State of California that the foregoing agenda was posted in accordance with the applicable legal requirements. Regular and Adjourned Regular meeting agendas may be amended up to 72 hours in advance of the meeting. Dated this 6<sup>th</sup> day of June 2024 at 5:30 p.m.*



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Gail Duncan, Administrative Assistant



# Environmental Review Board Agenda Report

ERB Meeting  
06-12-24  
**Item  
3.A.**

To: Members of the Environmental Review Board

Prepared by: Tyler Eaton, Senior Planner

Reviewed by: Richard Mollica, Planning Director

Approved by: Courtney McCammon, City Biologist

Date prepared: June 6, 2024 Meeting date: June 12, 2024

Subject: Coastal Development Permit No. 22-030 – An application to construct a 7,096-foot long, 12-inch diameter, watermain that will connect to the Las Virgines Municipal Water District to be used in times of emergency

Application Filing Date: June 13, 2022  
Project Applicant: County of Los Angeles  
Property Owner: City of Malibu  
Location: Within Public Right-of-Way along Encinal Canyon Road  
Nearest APNs: 4473-008-033 – Northern City Limits  
Nearest Zoning: Rural Residential

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**RECOMMENDED ACTION:** Review the proposed project and provide recommendations for the Planning Commission’s consideration.

**DISCUSSION:** A 7,096-foot-long watermain is proposed along Encinal Canyon Road by the County of Los Angeles that connects to the Las Virgines Municipal Water District. This watermain will help first responders with firefighting efforts in times of emergency. The entire city of Malibu is in a High Fire Hazard Severity Zone. The Encinal area has been impacted by many fires over the years including the 2018 Woolsey Fire most recently. The new watermain will be entirely within the public right-of-way (ROW) of Encinal Canyon Road from the northern city limits ending near Assessor’s Parcel Number (APN) 4473-008-003.

The watermain will bisect a Local Coastal Program (LCP) mapped blue line stream close to the northern city border. The stream passes across Encinal Canyon Road via a drainage pipe underneath the road, ultimately connecting to the Pacific Ocean further south. The proposed watermain will provide a five-foot, six-inch separation from the stream’s drainage pipe underneath the surface. The project will consist of trenching, installation of the watermain infrastructure, and re-pavement of the asphalt road.

**Figure 1 – Project Aerial with Mapped ESHA**



Source: City of Malibu GIS, 2024

## Setting

The project is located within the public ROW along Encinal Canyon Road neighboring residentially zoned parcels. Environmentally Sensitive Habitat Area (ESHA) covers most of the adjacent parcels along the project area. The project will take place outside of the ESHA, within the disturbed paved roadway and graded shoulder of the road.

A native tree survey was required for the project pursuant to LCP Local Implementation Plan (LIP) Section 5.3 as there were indications that native protected trees, pursuant to the chapter may be impacted. The applicant submitted an Oak and

Native Tree Survey Report prepared by Environmental Science Associates (ESA) dated March 2023 (Exhibit 3). The report identified eight native protected trees near the project area, four of which would be subject to encroachment from the proposed development. The four native trees subject to encroachment were all coast live oak trees. Encroachment of a native tree is defined in the LIP by the area within the dripline of the tree and extending at least five feet beyond the dripline, or 15 feet from the trunk of the tree, whichever is greater. The native tree survey concluded that no native trees required removal, and none will be impacted by the development. However, due to the development encroaching into the protected zone of four coast live oak trees, the project is subject to the mitigation measures of the LIP.

LIP Section 5.6.1 requires the following regarding protected trees with encroachments, *“Where approved development encroaches into the root zone of native trees, each affected tree shall be monitored annually for a period of not less than ten years. An annual monitoring report shall be submitted for review by the City for each of the ten years. Should any of these trees be lost or suffer worsened health or vigor as a result of the proposed development, the applicant shall mitigate the impacts as required in section 5.5 of the Malibu LIP. If replacement plantings are required as mitigation, monitoring of the replacement trees shall be provided as required by Section 5.6.2 of the Malibu LIP.”* The project will be conditioned in compliance with this section of the LIP. Based on the analysis of the native tree survey, the four coast live oaks that will have encroachments will not be impacted. However, the City could require that the protected zones of trees be completely avoided. There is additional room within the ROW that could potentially avoid encroachment into the protected zones.

The watermain will cross over a drainage pipe that directs a mapped blueline stream underneath Encinal Canyon Road. The stream is not anticipated to be impacted by the proposed development. The applicant obtained a letter from the United States Army Corps of Engineers (Exhibit 4) and a statement from the California Department of Fish and Wildlife (Exhibit 5) clearing the project from jurisdictional review.

## **Archaeology**

There is a low probability of cultural resources being discovered within the project area as the site has been disturbed due to the creation of Encinal Canyon Road. Nevertheless, conditions will be included in the Planning Commission resolution for this project which state that in the event that potentially important cultural resources are found in the course of geologic testing or construction, work shall immediately cease until a qualified archaeologist can provide an evaluation of the nature and significance of the resources and until the Planning Director can review this information.

## Department Reviews

The project was reviewed and approved by the City Biologist, City geotechnical consultant reviewers, and the City Public Works Department. All conditions of approval from the various departments are included as Exhibit 2.

ENVIRONMENTAL REVIEW: Pursuant to the authority and criteria contained in the California Environmental Quality Act (CEQA), the Planning Department has analyzed the proposal as described above. The County of Los Angeles certified a Final Environmental Impact Report (EIR) (State Clearinghouse No. 2017111032) which studied the environmental impacts of the project. The Final EIR concluded that the impacts of the proposed development were less than significant.

SUMMARY: The project has been reviewed and conditionally approved for conformance with the LCP by staff and appropriate City and County agencies. The ERB can recommend additional mitigation measures for the Planning Commission to consider.

STAFF FOLLOW-UP: Recommendations of the ERB will be incorporated into the agenda report for the Planning Commission's review and consideration.

### EXHIBITS:

1. Project Plans
2. Department Review Sheets
3. Oak and Native Tree Survey Report Dated March 2023
4. US Army Corps of Engineers Clearance Letter
5. California Department of Fish and Wildlife Clearance Statement

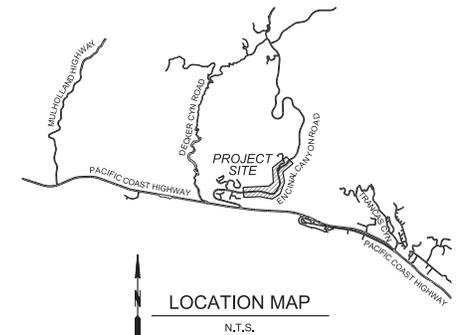
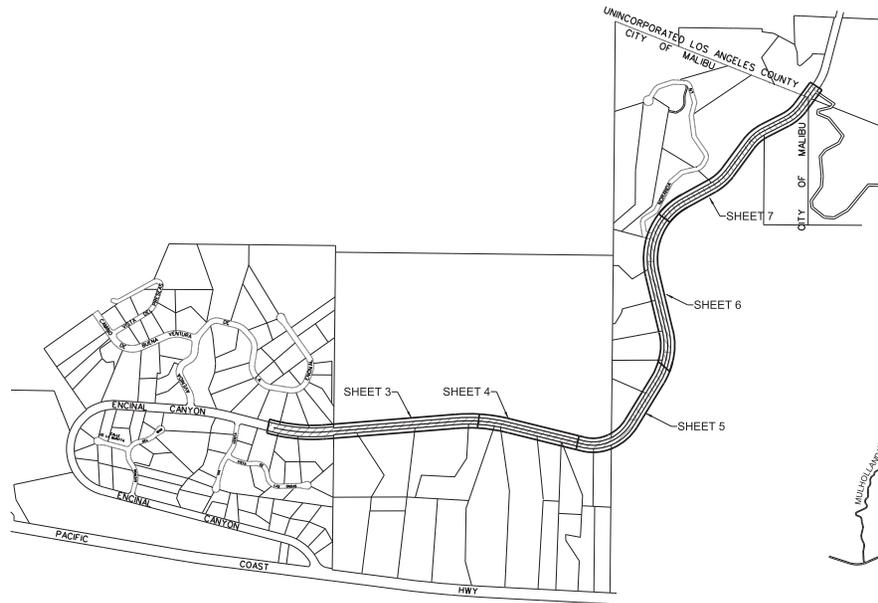
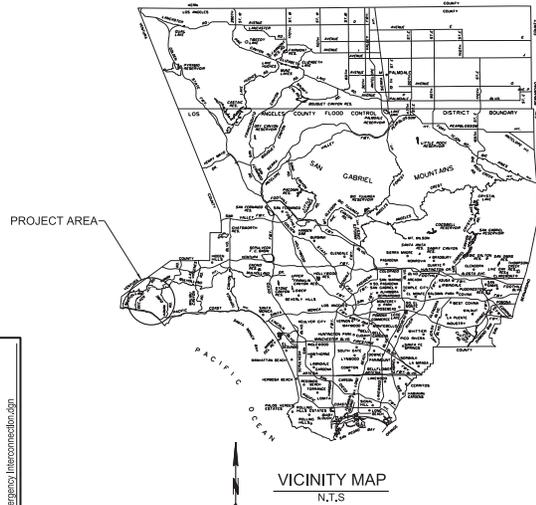
# LOS ANGELES COUNTY PUBLIC WORKS ENCINAL CANYON ROAD EMERGENCY INTERCONNECTION

WATERWORKS DISTRICT NO. 29, MALIBU

STATISTICS	
LENGTH OF 12" WATERMAIN	7,096 FT
MAX STATIC PRESSURE	340 PSF
PRESSURE ZONE	825
DISTRIBUTION MAP SHEET NO.	HZ-27, HZ-38 LZ-26

REFERENCES	
WATER MAIN SPECIFICATIONS 29-632 (PC)	SURVEY REFERENCES PWFB 1202 PAGE 160 PWFB 1302 PAGE 161 PWFB 1202 PAGE 162 PWFB 1302 PAGE 457 PWFB 1302 PAGE 460 PWFB 1302 PAGE 461

SHEET INDEX	
SHT NO.	DESCRIPTION
1	TITLE SHEET, LEGEND, VICINITY, LOCATION, AND INDEX MAPS
2	GENERAL NOTES, MATERIAL LISTS, AND UTILITY CROSSING DETAILS
3	PLAN STA. 10+00 TO STA. 24+00
4	PLAN STA. 24+00 TO STA. 36+00
5	PLAN STA. 36+00 TO STA. 48+00
6	PLAN STA. 48+00 TO STA. 62+00
7	PLAN STA. 62+00 TO STA. 80+00
8	CROSS SECTION AND DETAILS



LEGEND	
PROPOSED WATER MAIN	—W—W—
EXISTING WATER MAIN	—W—W—
EXISTING SEWER AND MANHOLE	—S—S—
EXISTING CABLE LINE	—C—C—
EXISTING GAS LINE	—G—G—
EXISTING TELEPHONE LINE	—T—T—
EXISTING ELECTRICAL UNDERGROUND	—E—E—
STREET CENTER LINE	—+—+—
PROPERTY LINE	—+—+—
RIGHT OF WAY LINE	—+—+—
EXISTING A.C. PAVING	—//—//—
EXISTING CHAIN LINK FENCE	—O—O—
GATE VALVE	—O—O—
TIE BELLED	—O—O—
ELBOW, FLANGED	—O—O—
CONNECTIONS: FLANGE, BELL, M.J. FLEX ADAPTOR	—O—O—
SERVICE CONNECTION	—O—O—
INTERCONNECTION	—O—O—
FIRE HYDRANT 8" x 4" x 12"	—O—O—
VAULT VENT	—O—O—
CPS STATION	—O—O—
PUMP WELL	—O—O—
FLUSH-OUT ASSEMBLY	—O—O—
COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLY	—O—O—
LIGHT POLE	—O—O—
POWER POLE	—O—O—
BORING	—O—O—

FILE NAME: WWD2900082 Encinal Canyon Emergency Interconnection.dwg  
 DATE LAST SAVED: 01/05/2021  
 CHECKER: R. HARTOONIAN  
 DESIGNER: R. NADERI  
 DRAWN BY: S. MAJIDAVI



APPROVED	BY: _____	DATE: _____
RECOMMENDED	BY: _____	DATE: _____

DATE	INITIALS	DESCRIPTION



<b>90% PLANS</b> <b>NOT FOR CONSTRUCTION</b>	
LOS ANGELES COUNTY PUBLIC WORKS WATERWORKS DISTRICT NO. 29, MALIBU <b>ENCINAL CANYON RD          EMERGENCY INTERCONNECTION</b> TITLE SHEET, VICINITY MAP, LOCATION AND SHEET INDEX MAP,	
PROJECT NUMBER	DATE
PROJ ID: WWD2900082	PCA: Y5292334 SPEC: WWD 29-603
SHEET 1	OF 8

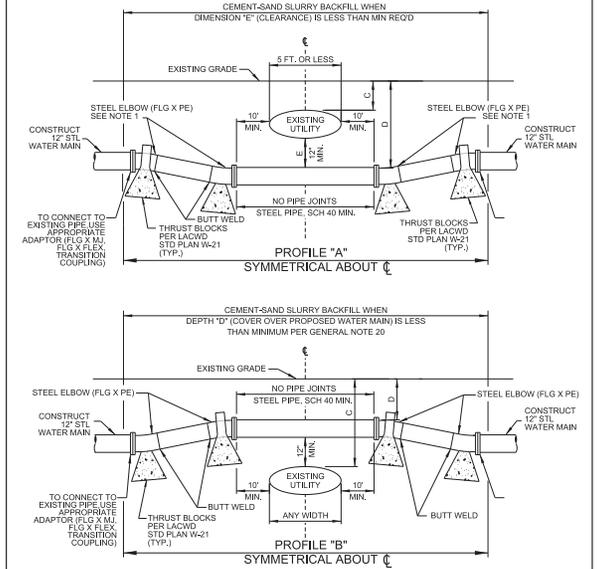
**GENERAL CONSTRUCTION NOTES**

- ELEVATIONS SHOWN ARE IN FEET ABOVE THE N.A.V.D 1988 DATUM, MALIBU 2008 ADJ.
- ALL FIELD BOOK REFERENCES ARE TO LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS FIELD BOOKS, UNLESS OTHERWISE NOTED.
- STATIONING IS IN FEET ALONG CENTERLINE OF 12" DIAMETER WATER MAIN.
- ALL NEW WORK SHALL BE TESTED AT 200 PSI FOR FOUR HOURS ALONG 12" WATER MAINS IN 825 FT PRESSURE ZONE. CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL ANY NECESSARY THRUST BLOCKS IN ACCORDANCE WITH LACWD STANDARD PLAN W-21, UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ON THE PLANS WERE CALCULATED ON A HORIZONTAL OFFSET. PIPE LENGTH ADJUSTMENTS FOR JOGS, SLOPES, VALVES, AND FITTINGS HAVE NOT BEEN MADE.
- BEFORE BACKFILLING THE TRENCH, ALL UNDERGROUND STEEL SURFACES SHALL BE FIELD COATED WITH A MINIMUM 2" THICKNESS OR AS INDICATED IN SECTION OF THE SPECIAL PROVISIONS OF 1,000 LB. CEMENT MORTAR (THREE (3) PARTS SAND TO ONE (1) PART PORTLAND CEMENT), UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY THE SIZE, TYPE, CLASS, PROTECTIVE LINING AND COATING, AND DEPTH OF THE EXISTING WATER MAIN AND SHALL BE RESPONSIBLE FOR MAKING THE PROPER CONNECTIONS.
- THE PIPE SHALL BE CONSTRUCTED SO AS TO PROVIDE THE FOLLOWING MINIMUM CLEARANCES TO EXISTING OR OTHER PROPOSED UNDERGROUND CONDUITS OR STRUCTURES PURSUANT TO CALIFORNIA ADMINISTRATIVE CODE SECTION 64572:
  - HORIZONTAL: 24-INCHES OUTSIDE-TO-OUTSIDE (68-INCHES OUTSIDE-TO-OUTSIDE FOR STORM DRAINS)
  - VERTICAL: 12-INCHES OUTSIDE-TO-OUTSIDE
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT PLANS OF THE WATER SYSTEM FOR THIS PROJECT AT THE COMPLETION OF THE WORK.
- EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON RECORDS FURNISHED BY UTILITY COMPANIES. UTILITY SERVICE CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL ASSUME THAT SERVICE FACILITIES (INCLUDING, BUT NOT LIMITED TO, WATER, TELEPHONE, ELECTRICAL, CABLE TV, AND GAS) EXTEND FROM EACH UTILITY FACILITY TO EACH PARCEL OR LOT WHETHER OR NOT SERVICE FACILITIES ARE SHOWN. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE AND FITTINGS REQUIRED TO AVOID ALL UTILITIES INCLUDING ALL SERVICE FACILITIES, ALL AT NO ADDITIONAL COST TO AGENCY.
- CONTRACTOR SHALL ADJUST WATER MAIN ALIGNMENTS AS REQUIRED TO MAINTAIN MINIMUM CLEARANCE BETWEEN PROPOSED WATER MAIN AND EXISTING UTILITIES, VAULTS, MANHOLES, STRUCTURES, AND ANY OTHER SUBSURFACE FACILITIES. PIPELINE CONSTRUCTION IN THE VICINITY OF SANITARY SEWERS SHALL, AT A MINIMUM, CONFORM TO LACWD STANDARD PLAN W-50.
- DISINFECTION: CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ASSURE SANITARY INSTALLATION. THE CONTRACTOR SHALL ENDEAVOR TO KEEP ALL DIRT, RODENTS, INSECTS, ETC. AWAY FROM WATERWAY SURFACES. ISOLATION VALVES SHALL BE KEPT CLOSED (EXCEPT DURING FILLING AND FLUSHING. WHEN VALVES SHALL BE OPERATED SO AS TO ASSURE FLOW TOWARD NEW DISCHARGE) AND KEPT CLOSED AT ALL OTHER TIMES UNTIL, AFTER PRESSURE TEST, DISINFECTION, FLUSHING AND BACTERIAL TEST HAS BEEN PASSED. CONTRACTOR SHALL NOTIFY AGENCY AT LEAST 24 HOURS IN ADVANCE OF ANY OPERATION OF ISOLATION VALVES WHICH SHALL BE OPERATED ONLY BY AGENCY PERSONNEL. AGENCY WILL ARRANGE FOR BACTERIOLOGICAL TEST SAMPLING OF NEW WATER MAINS UPON A MINIMUM 48 HOUR NOTIFICATION BY CONTRACTOR. AGENCY WILL ALSO ARRANGE FOR CURRENT BACTERIOLOGICAL TEST SAMPLING OF SUPPLY. PROCESS FOR BACTERIOLOGICAL TESTING TO BEGIN ON A MONDAY.
- IF THE CONTRACTOR DESIRES TEMPORARY WATER SERVICE FOR CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR INSTALLATION, BY THE AGENCY, OF TEMPORARY CONSTRUCTION METERS) OFF FIRE HYDRANTS OR FLOUSHOUTS, THE ISSUING OF TEMPORARY CONSTRUCTION METERS) DURING THE SUMMER MONTHS MAY BE RESTRICTED BASED ON AVAILABLE WATER SUPPLY.
- THE CONTRACTOR SHALL NOTIFY LACWD MALIBU OFFICE SUPERINTENDENT AT (626) 456-6770, AT LEAST 48 HOURS BEFORE STARTING ANY WORK ON THIS PROJECT.
- JOINT DEFLECTIONS SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS.
  - CONTRACTOR SHALL COMPLETELY INSTALL AND TEST NEW WATER MAIN IN ACCORDANCE WITH THE SECTION W OF THE SPECIAL PROVISIONS PRIOR TO MAKING THE INTERCONNECTION.
  - CONTRACTOR SHALL REMOVE INTERFERING PORTIONS OF EXISTING WATER MAINS, VALVES, FITTINGS, PLUGS, BLIND FLANGES, THRUST BLOCKS AND APPURTENANCES IN THE PRESENCE OF THE ENGINEER.
  - CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, TWO WORKING DAYS IN ADVANCE, THAT THEY ARE PREPARED WITH ALL LABOR, MATERIAL, EQUIPMENT, AND NECESSARY PRELIMINARY WORK TO MAKE THE CONNECTION. AGENCY PERSONNEL WILL CHECK EXISTING VALVES AS NEEDED.
  - CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCY CUSTOMERS AND THE FIRE DEPARTMENT NO LESS THAN 24 HOURS PRIOR TO THE LOSS OF SERVICE. MAXIMUM SHUTDOWN SHALL NOT EXCEED 3 HOURS.
- CONTRACTOR SHALL POSSESS A VALID "A" OR "C" CONTRACTORS LICENSE.
- THE CONTRACTOR SHALL NOT RESTRICT THE USE OF PUBLIC RIGHT-OF-WAY OR ACCESS TO ADJACENT PREMISES.
- WATER TRANSMISSION MAIN TRENCH SHALL BE IN ACCORDANCE DETAIL 1, SHEET 8, UNLESS OTHERWISE NOTED.
- ALL 4" AND 6" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 36" AND 18" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 42". 12" DIAMETER PIPE SHALL HAVE A MINIMUM COVER OF 48". WATER MAINS SHALL BE CONSTRUCTED WITH THE MINIMUM REQUIRED COVER MEASURED FROM THE PROPOSED ADJACENT FLOW LINES.
- ALL RUBBER MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE "PEROXIDE CURED EPDM" FOR RESILIENT SEAT GATE VALVES, BUTTERFLY VALVES, FLEXIBLE EXPANSION JOINTS, FLANGE COUPLING ADAPTER JOINTS, SLEEVE COUPLING, PUSH-ON PIPE JOINTS, FITTING JOINTS, AND FLANGE GASKET JOINTS.
- THE CONTRACTOR SHALL TRANSPORT AND LEGALLY DISPOSE OF ALL REMOVED MATERIALS.
- EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND ALL UTILITIES CROSSING THE TRENCH SHALL BE TEMPORARILY SUPPORTED TO THE SATISFACTION OF THE AGENCY.
- THE WATER MAIN TO BE ABANDONED SHALL BE COMPLETELY DRAINED, APPROXIMATELY EVERY 250 FEET MORE OR LESS, A SHORT SECTION OF WATER MAIN IS TO BE REMOVED AND EACH END OF THE WATER MAIN TO BE PLUGGED AS INDICATED ON THE PLANS AND THRUST BLOCKS SHALL BE PROVIDED.
- ASBESTOS CEMENT PIPE SHALL NOT BE CUT. A WHOLE SECTION LENGTH OF ACP SHALL BE REMOVED BY BREAKING THE JOINTS WHEN REQUIRED. THE REMOVED PIPE SHALL BE JOINED TO THE EXISTING ACP WITH COUPLINGS.
- WATER MAINS, VALVES, AND FITTINGS TO BE ABANDONED:
  - THE CONTRACTOR SHALL FURNISH ALL MATERIAL NEEDED FOR COMPLETE ABANDONMENT OF EXISTING WATER MAINS.
  - WHERE VALVES OR FITTINGS ARE REQUIRED TO BE REMOVED, THE EXISTING WATER MAIN OR FITTING TO REMAIN IN SERVICE SHALL BE BLIND FLANGED OR PLUGGED AS INDICATED ON THE PLANS AND THRUST BLOCKS SHALL BE PROVIDED.
  - ALL VALVES AND VALVE BOX CAPS SHALL BE REMOVED AND SALVAGED. THE VALVE BOX TOP SLEEVE AND BOTTOM SLEEVE SHALL BE FILLED WITH TYPE "A" BASE (OR AS REQUIRED BY THE PERMIT). IF THE VOID IS WITHIN THE PAVED STREET AREA THE VOID SHALL BE COMPACTED AND RESURFACED WITH AC PAVEMENT. IN SIDEWALK AREAS, THE CONCRETE SIDEWALK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

**MATERIALS LIST/WORK ACTIVITIES**

NO.	DESCRIPTION
1	12" STEEL PIPE, 0.25" THICK, CML & CMC, WELDED
2	12" STEEL SLIP-ON WELD FLANGE, CL 300, CMC
3	12" X 12" FLDG STEEL TEE, CL 300 FLDG, STD WT, CML & CMC
4	12" FLDG GATE VALVE, 350 PSI WWP, CL 300 FLDG, NRS, W/ ADJUSTABLE VALVE BOX PER LACWD STD PLAN W-15
5	12" FLDG 90° STEEL ELBOW, CL 300 FLDG, STD WT, CML & CMC
6	12" STEEL BLIND FLANGE, CL 300, CMC
7	12" X 10" FLDG STEEL REDUCER, STD WT, CL 300 FLDG, CML & CMC
8	12" FLDG 90° STEEL ELBOW, CL 300 FLDG, STD WT, CML & EPOXY COATED
9	12" X 8" FLDG STEEL REDUCER, CL 300 FLDG, STD WT, CML & EPOXY COATED
10	12" X 4" FLDG STEEL TEE, CL 300 FLDG, STD WT, CML & CMC
11	8" PRESSURE REDUCING VALVE, CLAVAL MODEL 90G-01BC5YPKCBX D/S, CL 300
12	8" FLDG GATE VALVE W/ HANDWHEEL, 350 PSI WWP, CL 300 FLDG, NRS
13	8" X 4" FLDG STEEL TEE, CL 300 FLDG, STD WT, CML & EPOXY COATED
14	8" FLOW METER PER LVMMWD STD.
15	8" STEEL PIPE, SCH 20, CML & EPOXY COATED
16	8" STEEL SLIP-ON WELD FLANGE, CL 300, CMC
17	8" GROOVED COUPLING
18	PIPE SUPPORT PER STD. W-17, OMIT ANCHORS
19	THRUST BLOCK PER LACWD STD PLAN W-21
20	CUT & PLUG EXISTING WATERMAIN PER LACWD STD. PLAN W-22
21	RECONNECT EXISTING WATER SERVICE PER DETAIL 2, SHEET 8 (METER AND BOX TO REMAIN)
22	INSTALL SAMPLING STATION PER DETAIL 3, SHEET 8
23	CATHODIC PROTECTION - SHALLOW M/A ANODE AND TEST STATION PER LACWD STD PLAN W-39
24	REMOVE EXISTING AND INSTALL NEW FLUSH OUT LATERAL ONLY PER LACWD STD. PLAN W-33
25	REMOVE EXISTING AND INSTALL NEW AIR-RELEASE LATERAL ONLY PER LACWD STD. PLAN W-16
26	PRESSURE GAUGE PER DETAIL 4 ON SHEET 8
27	4" FLDG GATE VALVE W/ HANDWHEEL, 350 PSI WWP, CL 300 FLDG, NRS
28	4" FLDG GATE VALVE, 350 PSI WWP, CL 300 FLDG, W/ ADJUSTABLE VALVE BOX PER LVMMWD STD.
29	4" X 4" FLDG STEEL TEE, CL 300 FLDG, STD WT, CML & EPOXY COATED
30	2" PRESSURE REDUCING VALVE, CLAVAL MODEL 90G-01BC5YPKCBX D/S, CL 300
31	4" FLDG 90° STEEL ELBOW, CL 300 FLDG, STD WT, CML & EPOXY COATED
32	4" STEEL PIPE, SCH 20, CML & EPOXY COATED
33	2" PRESSURE RELIEF & SUSTAINING VALVE, CLAVAL MODEL 50G-01BPCKDBX D/S, CL 300
34	4" STEEL SLIP-ON WELD FLANGE, CL 300
35	4" GROOVED COUPLING
36	2" 180° WELD ELBOW, STEEL, SCH 40, FLDG CLASS 300, CML & EPOXY COATED
37	CHAIN LINK FENCING PER LACWD STD W-23 WITHOUT BARRIER WIRE
38	6" MIN. THICK CONCRETE SLAB, SLOPE TO DRAIN TO STREET
39	6" PUMP WELL, STYLE A, PER LACWD STD PLAN W-53
40	MASONRY RETAINING WALL PER SSPVC 618-3, TYPE AND HEIGHT PER PLAN
41	2" AIR RELEASE AND VACUUM VALVE ASSEMBLY PER LACWD STD PLAN W-16
42	4" X 2" FLDG STEEL REDUCER, CL 300 FLDG, STD WT, CML & EPOXY COATED
43	2" STEEL SLIP-ON WELD FLANGE, CL 300
44	2" PRESSURE REDUCING VALVE, CLAVAL MODEL 49G-03MODGABCSYPKCBX D/S, CL 300
45	8" PRESSURE REDUCING VALVE, CLAVAL MODEL 49G-03MODGABCSYPKCBX D/S, CL 300
46	2" FLDG 90° STEEL ELBOW, CL 300 FLDG, STD WT, CML & EPOXY COATED

**UTILITY CROSSING DETAILS**



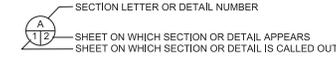
**UTILITY CROSSING DETAILS**

- 45° ELBOWS SHALL BE USED WHERE THE BOTTOM OF THE EXISTING UTILITY BEING UNDERCROSSED IS 8 FEET DEEP OR MORE. 22.5° ELBOWS MAY BE USED WHERE THE BOTTOM OF THE EXISTING UTILITY TO BE UNDERCROSSED IS LESS THAN 4 FEET DEEP.
- IN LIEU OF USING STEEL PIPE WITH STEEL ELBOWS AS SHOWN IN PROFILES "A" OR "B", CONTRACTOR MAY DEFLECT JOINTS PER MANUFACTURERS RECOMMENDATIONS WHEN ALL THE FOLLOWING CONDITIONS ARE MET:
  - THERE IS NOT ADEQUATE CLEARANCE FOR THRUST BLOCKS.
  - THE CROSSING IS NOT BENEATH A CREEK BED, DRAINAGE COURSE, OR OTHERWISE UNSUITABLE AREA.
  - THE WATER MAIN HAS LESS THAN 6" OF COVER AT ITS DEEPEST POINT.
- JOINT DEFLECTIONS SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS.
- WHEN DEPTH "C" (COVER OVER EXISTING UTILITY) IS GREATER THAN 7 FEET, USE PROFILE "B".
- WALL THICKNESS OF STEEL PIPE AND ELBOWS SHALL BE SCH 40 MINIMUM.

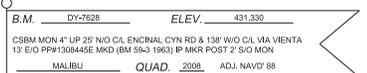
**90% PLANS**

**NOT FOR CONSTRUCTION**

**SECTION AND DETAIL IDENTIFICATION SYSTEM**



**BENCHMARK**



DATE	INITIALS	DESCRIPTION

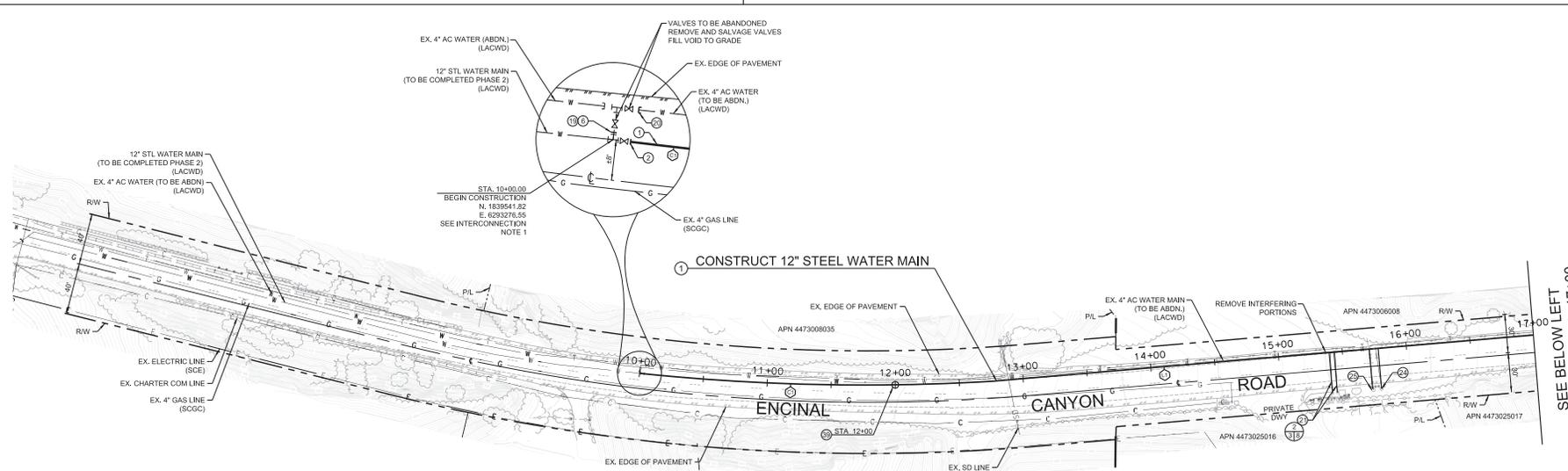


LOS ANGELES COUNTY PUBLIC WORKS  
WATERWORKS DISTRICT NO. 29, MALIBU

**ENCINAL CANYON RD  
EMERGENCY INTERCONNECTION**  
GENERAL NOTES, MATERIAL LIST, AND  
UTILITY CROSSING DETAILS

DRAWN BY: S. MAJLUMAI  
 CHECKED BY: R. NADERI  
 DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082 - Encinal Canyon Emergency Interconnection.dwg  
 DESIGNER: R. HARTCOOMAN

DRAWN BY: S. MAJLAWI  
 CHECKED BY: R. HARTOONIAN  
 DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082 Encinal Canyon Emergency Interconnection.dwg

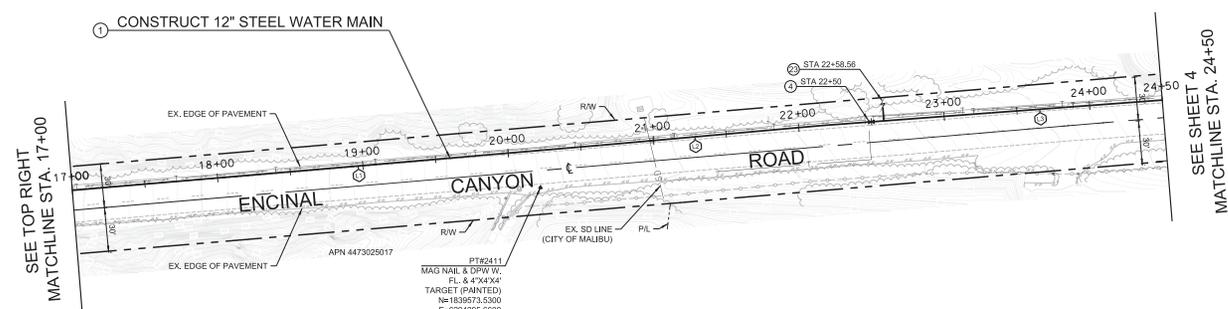


**CURVE DATA FOR 12" STEEL WATERMAIN**

NO.	Δ	R (FT.)	L (FT.)	C (PT.)	START	END
C1	92°55'	1960.9	178.44	118.63	10+00.00	10+82.00

**LINE DATA FOR 12" STEEL WATERMAIN**

NO.	LENGTH (FT.)	START	END	BEARING
L1	78.42	10+82.00	11+00.00	N89°10'44"E
L2	78.42	11+00.00	11+18.42	N89°10'44"E
L3	78.42	11+18.42	11+36.84	N89°10'44"E
L4	78.42	11+36.84	11+55.26	N89°10'44"E



**INTERCONNECTION NOTE 1:**

AFTER COMPLETION OF THE WATER MAIN INSTALLATION, SATISFACTORILY COMPLETING BACTERIOLOGICAL AND PRESSURE TESTS IN ACCORDANCE WITH SECTION W OF THE SPECIAL PROVISIONS, AND AFTER APPROPRIATE VALVES HAVE BEEN CLOSED BY AGENCY PERSONNEL, THE CONTRACTOR, UNDER AGENCY SUPERVISION, SHALL REMOVE EXISTING THRUST BLOCK AND 12" BLIND FLANGE AND COMPLETE THE INTERCONNECTION AS SHOWN ON THE PLANS, SEE GENERAL NOTE 16 ON SHEET 2. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCY CUSTOMERS AND THE FIRE DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO LOSS OF SERVICE. SHUTDOWN TIME SHALL NOT EXCEED 3 HOURS.

PT82411  
 MAG NAIL & DRIP W.  
 FL. & 4"x4"  
 TARGET (PAINTED)  
 N=1035573.5300  
 E=6294295.6600  
 EL.=524.11  
 PWFBS 1201-330



DATE	INITIALS	DESCRIPTION



**90% PLANS**

**NOT FOR CONSTRUCTION**

LOS ANGELES COUNTY PUBLIC WORKS  
 WATERWORKS DISTRICT NO. 29, MALIBU

**ENCINAL CANYON RD  
 EMERGENCY INTERCONNECTION**

PLAN STA. 10+00 TO STA. 24+50

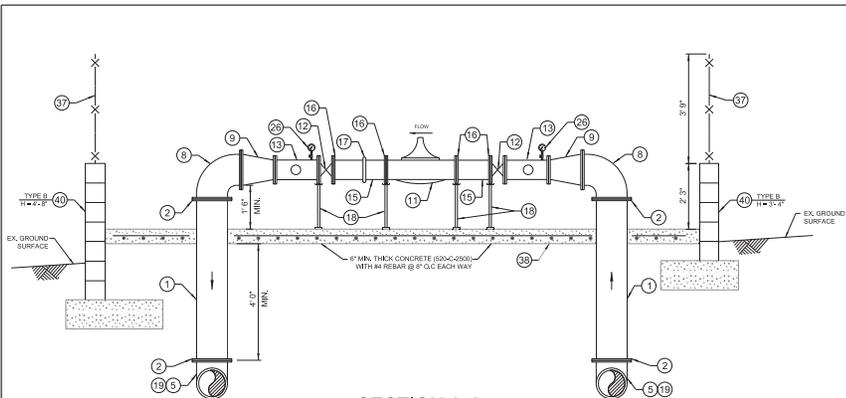
PROJECT ENGINEER	DATE	PROJ ID	WWD2900082	PCA	Y5292334	SPEC	WWD 24-803	SHEET	3 OF 8
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SEE BELOW LEFT  
MATCHLINE STA. 17+00

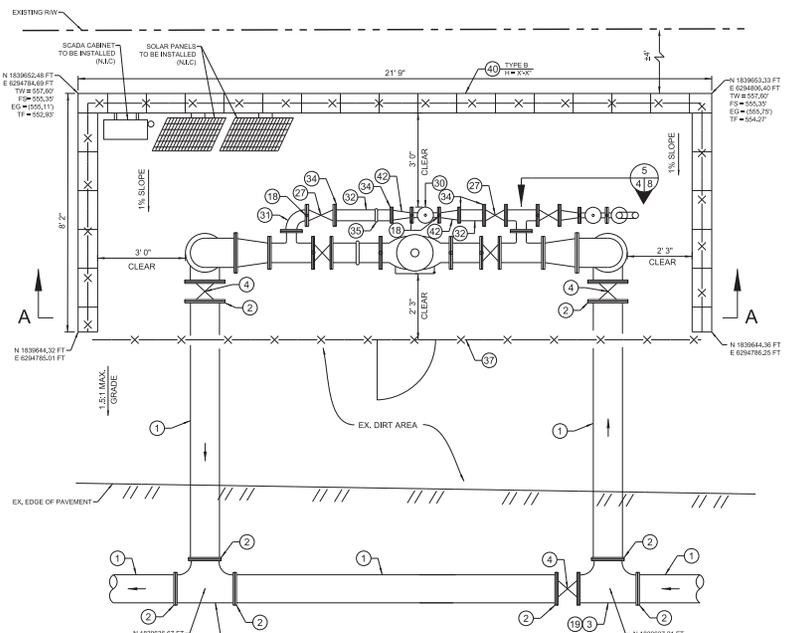
SEE TOP RIGHT  
MATCHLINE STA. 17+00

SEE SHEET 4  
MATCHLINE STA. 24+50

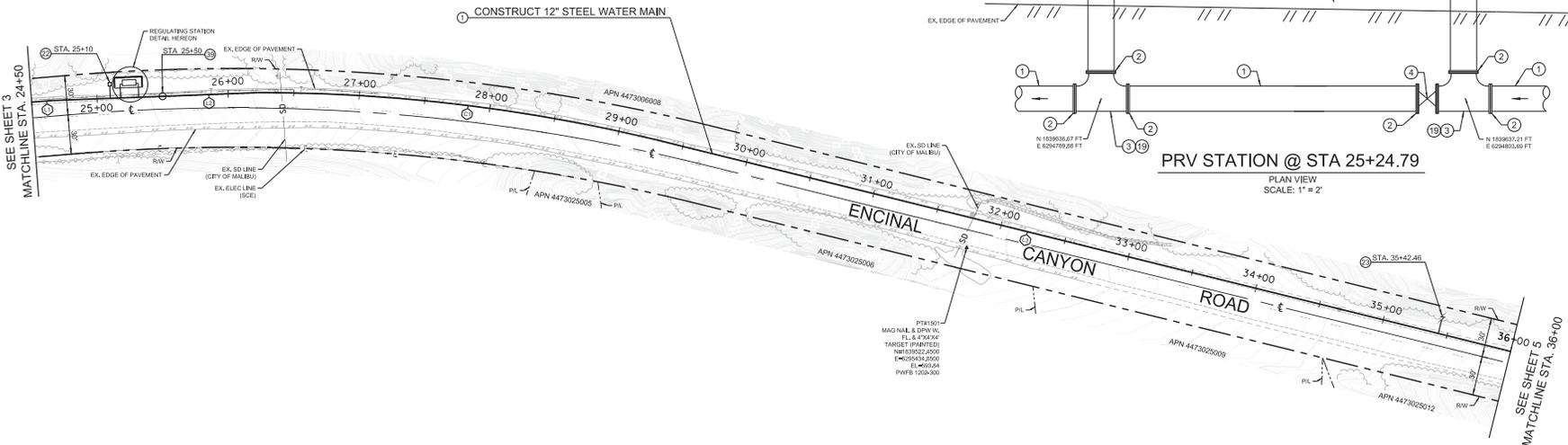
DRAWN BY: S. MAJLUMAI  
 CHECKED BY: R. NADERI  
 ENGINEER: R. HARTOONIAN  
 DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082 Encinal Canyon Emergency Interconnection.dwg



**SECTION A-A**  
SCALE: 1" = 2"



**PRV STATION @ STA 25+24.79**  
PLAN VIEW  
SCALE: 1" = 2"



90% PLANS

NOT FOR CONSTRUCTION

**ENCINAL CANYON RD  
EMERGENCY INTERCONNECTION**

PLAN STA. 24+50 TO 36+00

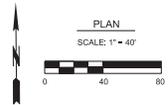
LOS ANGELES COUNTY PUBLIC WORKS  
WATERWORKS DISTRICT NO. 29, MALIBU

**LINE DATA FOR 12" STEEL WATERMAIN**

NO	Q	LENGTH (FT)	START	END	BEARING
L1	0	17.00	N 155°02'00"E	N 155°02'00"E	N87°46'26"E
L2	0	18.00	N 155°02'00"E	N 155°02'00"E	N87°46'26"E
L3	0	1.00	N 155°02'00"E	N 155°02'00"E	S70°10'10"E

**CURVE DATA FOR 12" STEEL WATERMAIN**

NO	Q	Δ (DEG)	R (FT)	L (FT)	T (FT)	START	END
C1	0	45.00	100.00	100.00	141.42	N 155°02'00"E	N 155°02'00"E



**REVISIONS**

DATE	INITIALS	DESCRIPTION

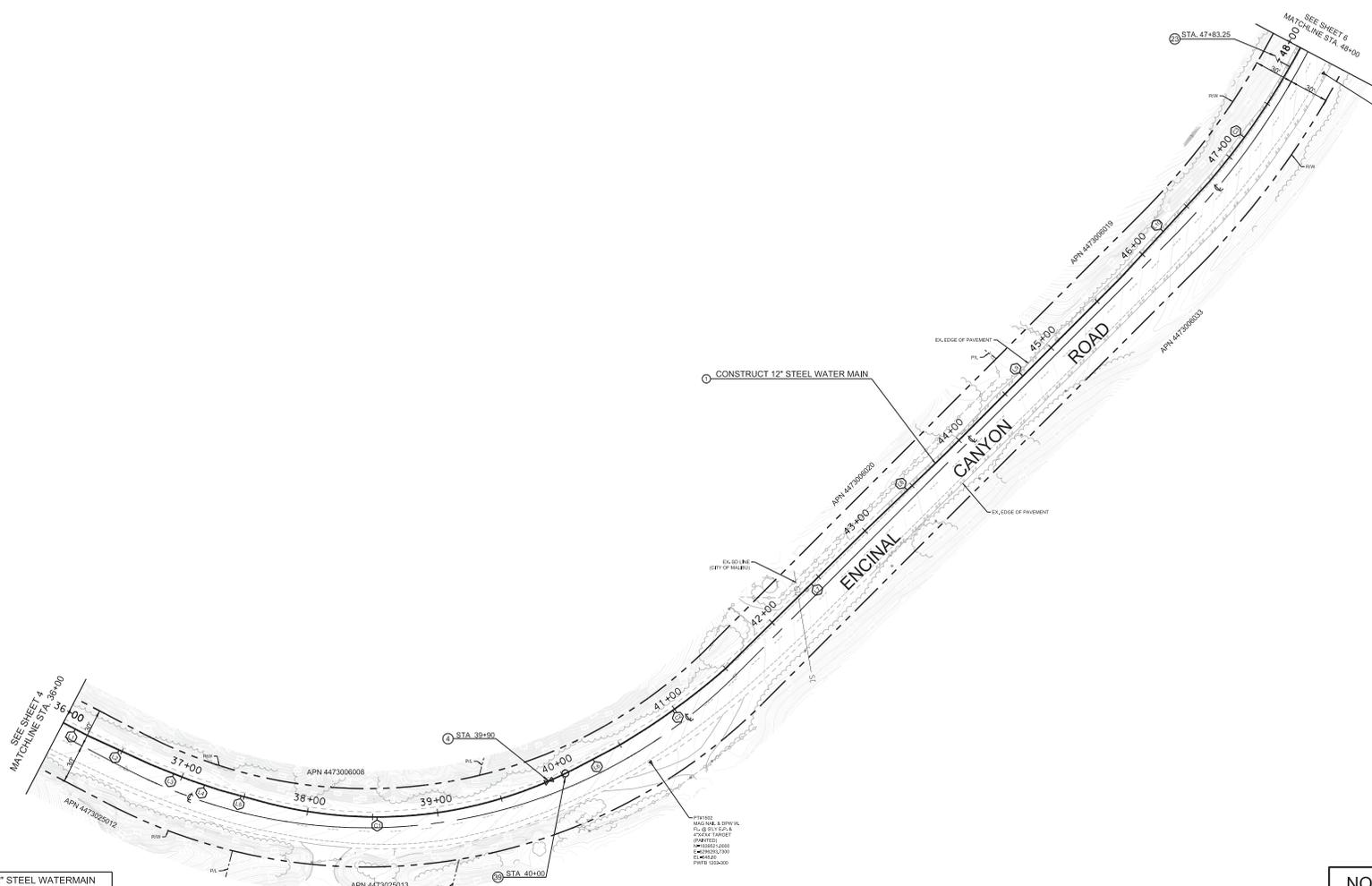


PROJECT ENGINEER: RASTA NADERI  
 DATE: 01/05/2021  
 PROJ ID: WWD2900082  
 PCA: Y5292334  
 SPEC: WWD 24-303  
 SHEET: 4 OF 8

DRAWN BY: S. MAJLUMAI  
 CHECKED BY: R. HARTOONIAN  
 DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082 Encinal Canyon Emergency Interconnection.dwg

NO	LENGTH (FT)	START	END	BEARING
L1	874.09	N 113.01 E 11.17	E 325.00 W 1.17	S 79.99 W 7.76
L2	85.00	E 325.00 W 1.17	E 325.00 W 1.17	S 79.99 W 7.76
L3	31.00	E 325.00 W 1.17	E 325.00 W 1.17	S 79.99 W 7.76
L4	25.17	N 12.00 E 1.17	N 12.00 E 1.17	S 89.99 W 3.19
L5	34.77	N 12.00 E 1.17	N 12.00 E 1.17	S 89.99 W 3.19
L6	36.00	E 325.00 W 1.17	E 325.00 W 1.17	N 84.11 W 5.16
L7	19.50	E 325.00 W 1.17	E 325.00 W 1.17	N 84.11 W 5.16
L8	82.27	N 119.02 E 1.17	N 119.02 E 1.17	N 14.02 W 6.98
L9	187.20	N 119.02 E 1.17	N 119.02 E 1.17	N 14.02 W 6.98
L10	187.20	N 119.02 E 1.17	N 119.02 E 1.17	N 14.02 W 6.98
L11	84.24	N 119.02 E 1.17	N 119.02 E 1.17	N 14.02 W 6.98

NO	Δ	R (FT)	L (FT)	T (FT)	START	END
C1	117.92	350.00	160.00	160.00	N 119.02 E 1.17	N 119.02 E 1.17
C2	119.02	352.00	162.00	162.00	N 119.02 E 1.17	N 119.02 E 1.17
C3	39.99	550.00	300.00	300.00	N 119.02 E 1.17	N 119.02 E 1.17



P18 1000  
 1/2" COPPER BRK  
 1/2" ALUM. & PINE  
 1/2" SAND (100000)  
 1/2" GRAVEL  
 1/2" SAND (100000)  
 1/2" SAND (100000)

CONSTRUCT 12" STEEL WATER MAIN

90% PLANS

NOT FOR CONSTRUCTION

LOS ANGELES COUNTY PUBLIC WORKS  
WATERWORKS DISTRICT NO. 29, MALIBU

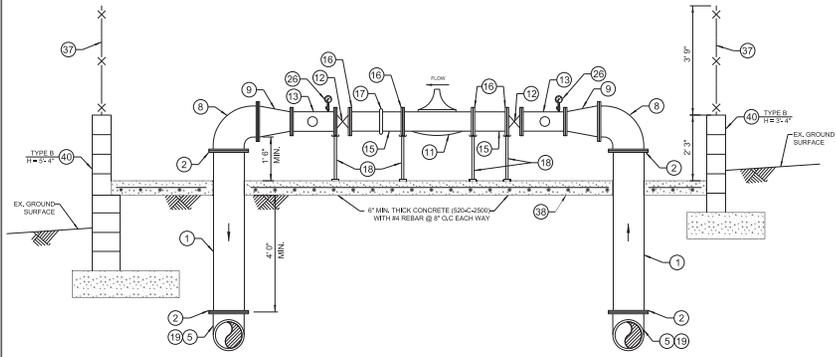
**ENCINAL CANYON RD  
EMERGENCY INTERCONNECTION**

PLAN STA. 36+00 TO 48+00



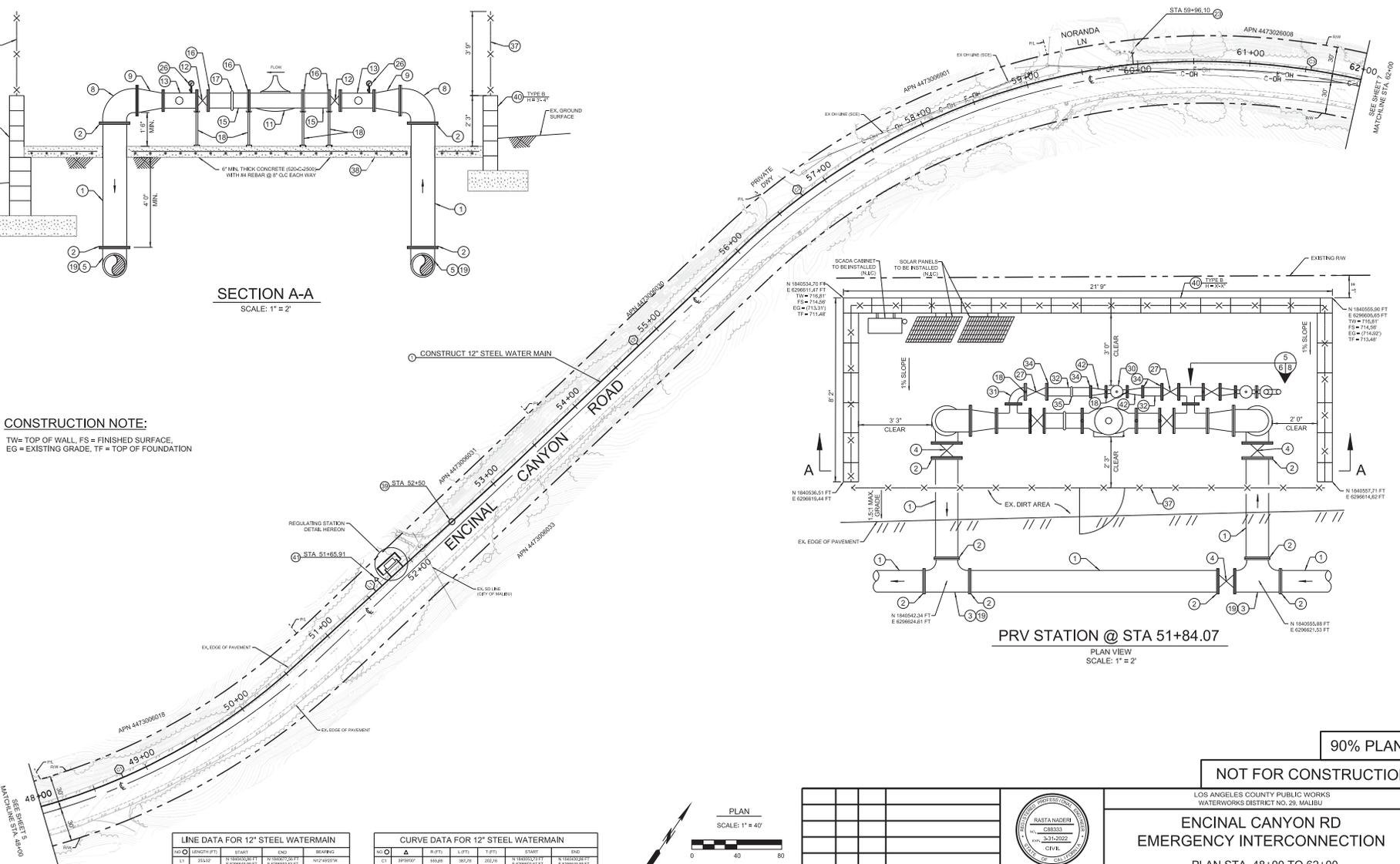
DATE	INITIALS	DESCRIPTION

DRAWN BY: S. MAJLUMI  
 CHECKED BY: R. NADERI  
 ENGINEER: R. HARTOONIAN  
 DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082 Encinal Canyon Emergency Interconnection.dgn



SECTION A-A  
SCALE: 1" = 2'

**CONSTRUCTION NOTE:**  
 1. TW= TOP OF WALL, FS = FINISHED SURFACE,  
 EG = EXISTING GRADE, TF = TOP OF FOUNDATION



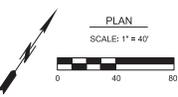
PRV STATION @ STA 51+84.07  
SCALE: 1" = 2'

LINE DATA FOR 12" STEEL WATERMAIN

NO.	LENGTH (FT)	START	END	BEARING
L1	35.00	7+00.00+00.00	7+35.00+00.00	N 0° 0' 0" W
L2	35.17	7+35.00+00.00	7+70.17+00.00	N 0° 25' 0" W

CURVE DATA FOR 12" STEEL WATERMAIN

NO.	Δ	R (FT)	L (FT)	T (FT)	START	END
C1	35.00	180.00	35.00	35.00	7+00.00+00.00	7+35.00+00.00
C2	35.17	182.37	35.17	35.26	7+35.00+00.00	7+70.17+00.00
C3	35.14	181.31	35.14	35.14	7+70.17+00.00	7+05.31+00.00



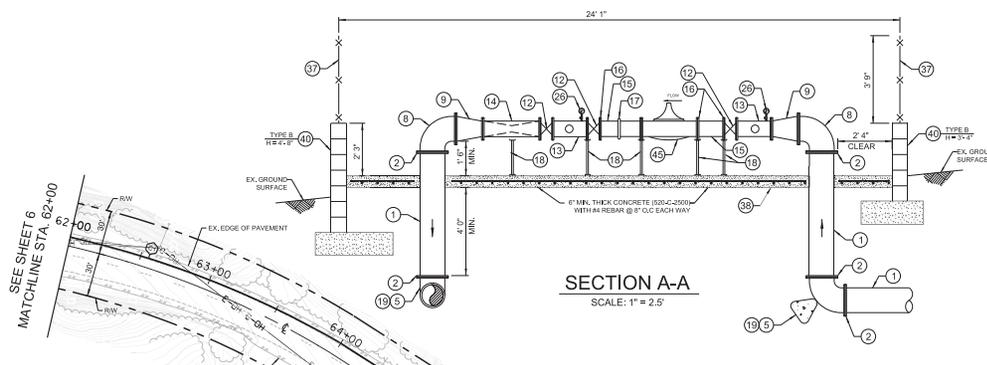
DATE	INITIALS	DESCRIPTION



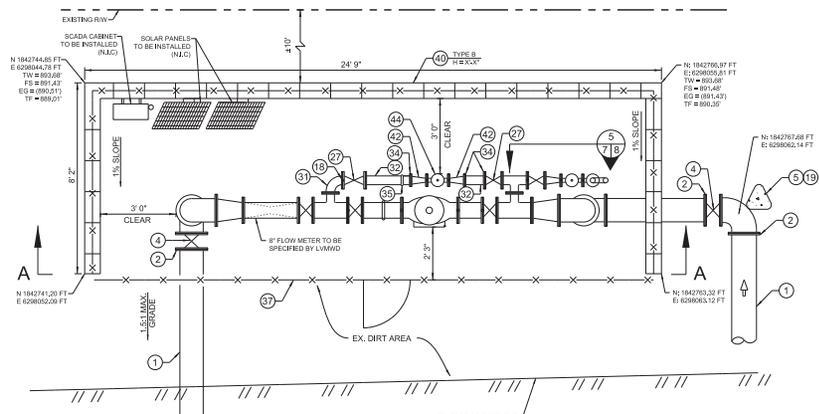
PROJECT ENGINEER: RASTA NADERI  
 PROJECT NO: WWD2900082  
 PROJECT NAME: ENCINAL CANYON RD EMERGENCY INTERCONNECTION  
 PROJECT LOCATION: WATERWORKS DISTRICT NO. 29, MALIBU  
 PROJECT STATION: STA. 48+00 TO 62+00  
 PROJECT ID: WWD2900082  
 PROJECT DATE: 1/5/2021  
 PROJECT SPEC: WWD 29-303  
 PROJECT SHEET: 6 OF 8

90% PLANS

NOT FOR CONSTRUCTION



**SECTION A-A**  
SCALE: 1" = 2.5'



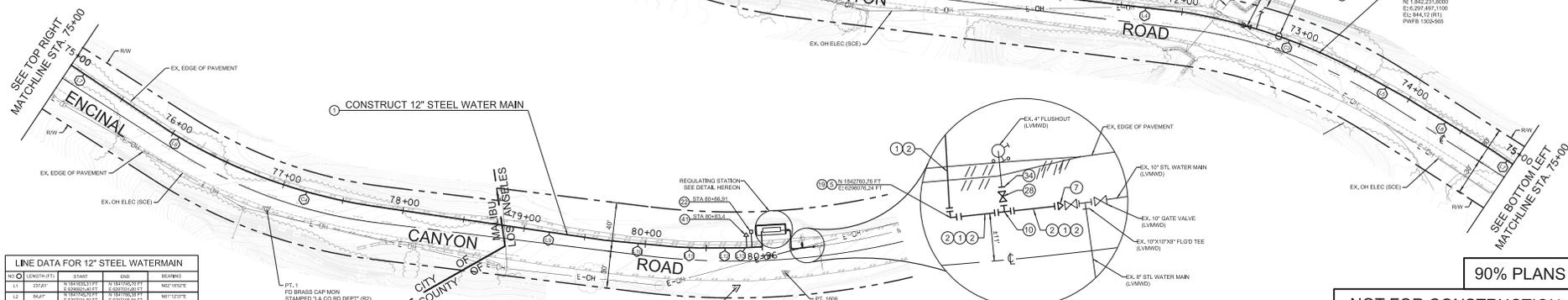
**FLOW METER & PRV STATION @ STA 80+96**  
PLAN VIEW  
SCALE: 1" = 2.5'

**CONSTRUCTION NOTE:**

1. TW = TOP OF WALL, FS = FINISHED SURFACE, EG = EXISTING GRADE, TF = TOP OF FOUNDATION

**INTERCONNECTION NOTE 2:**

AFTER COMPLETION OF THE WATER MAIN INSTALLATION, SATISFACTORILY COMPLETING BACTERIOLOGICAL AND PRESSURE TESTS IN ACCORDANCE WITH SECTION W OF THE SPECIAL PROVISIONS, AND AFTER APPROPRIATE VALVES HAVE BEEN CLOSED BY AGENCY AND LVMWD PERSONNEL, THE CONTRACTOR, UNDER AGENCY AND LVMWD SUPERVISION, SHALL INSTALL 12" X 10" REDUCER TO EXISTING 10" GATE VALVE AND COMPLETE THE INTERCONNECTION AS SHOWN ON THE PLANS. SEE GENERAL NOTE 16 ON SHEET 2. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCY CUSTOMERS AND THE FIRE DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO LOSS OF SERVICE. SHUTDOWN TIME SHALL NOT EXCEED 3 HOURS.



**LINE DATA FOR 12" STEEL WATERMAIN**

NO.	LENGTH (FT)	START	END	BEARING
L1	252.41	N 104°00'00" E	0+00.00 TO 2+52.41	N 62°10'00" E
L2	84.47	N 62°10'00" E	2+52.41 TO 3+36.88	N 61°12'37" E
L3	262.47	N 61°12'37" E	3+36.88 TO 6+00.00	N 60°20'00" E
L4	150.00	N 60°20'00" E	6+00.00 TO 7+50.00	N 59°30'00" E
L5	30.24	N 59°30'00" E	7+50.00 TO 7+80.24	N 58°45'00" E
L6	11.00	N 58°45'00" E	7+80.24 TO 7+91.24	N 58°00'00" E
L7	114.42	N 58°00'00" E	7+91.24 TO 9+05.66	N 57°15'00" E
L8	168.00	N 57°15'00" E	9+05.66 TO 10+73.66	N 56°30'00" E
L9	103.17	N 56°30'00" E	10+73.66 TO 11+76.83	N 55°45'00" E
L10	50.00	N 55°45'00" E	11+76.83 TO 12+26.83	N 55°00'00" E
L11	11.00	N 55°00'00" E	12+26.83 TO 12+37.83	N 54°15'00" E
L12	11.00	N 54°15'00" E	12+37.83 TO 12+48.83	N 53°30'00" E
L13	30.24	N 53°30'00" E	12+48.83 TO 12+79.07	N 52°45'00" E
L14	148.97	N 52°45'00" E	12+79.07 TO 14+28.04	N 52°00'00" E

**CURVE DATA FOR 12" STEEL WATERMAIN**

NO.	Δ	R (FT)	L (FT)	Δ (DEG)	PI (DEG)	BN
C1	30°42'	656.13	46.60	262.24	21°00'00"	0+00.00 TO 0+46.60
C2	20°54'	616.79	14.20	74.20	11°00'00"	0+46.60 TO 0+60.80
C3	1°55'40"	405.49	19.67	80.20	1°00'00"	0+60.80 TO 0+80.47
C4	2°14'52"	448.26	10.28	92.68	2°00'00"	0+80.47 TO 0+90.75



**REVISIONS**

NO.	DATE	INITIALS	DESCRIPTION



**NOT FOR CONSTRUCTION**

LOS ANGELES COUNTY PUBLIC WORKS  
WATERWORKS DISTRICT NO. 26, MALIBU

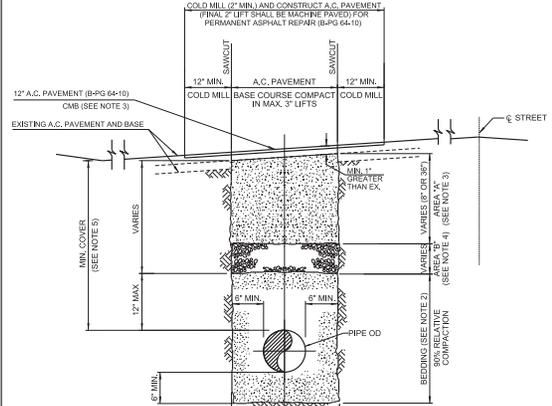
**ENCINAL CANYON RD  
EMERGENCY INTERCONNECTION**

PLAN STA. 62+00 TO 80+96

PROJECT NUMBER: WWD290082  
DATE: 01/05/2021  
PCA: Y5282334  
SPEC: WWD 24-303  
SHEET: 7 OF 8

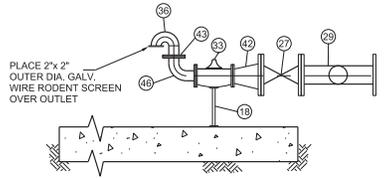
OWNER: S. MAJLUMAWI  
DESIGNER: R. NADERI  
CHECKER: R. HARTOONMAN  
DATE LAST SAVED: 01/05/2021  
FILE NAME: WWD290082 - Encinal Canyon Emergency Interconnection.dwg

DATE LAST SAVED: 01/05/2021  
 FILE NAME: WWD2900082\_Encinal Canyon Emergency Interconnection.dwg  
 CHECKER: R. HARTOONIAN  
 DESIGNER: R. NADERI  
 DRAWN BY: S. MAJLAWI

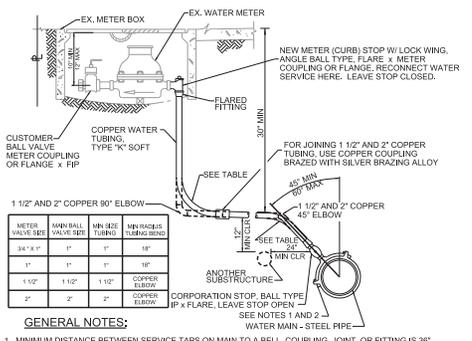


**PIPE TRENCH DETAIL**  
 N.T.S. 2/8

- NOTES:**
- BEDDING SHALL BE SAND PER SSPWC 217-1 UNLESS OTHERWISE APPROVED BY THE AGENCY.
  - NEITHER BEDDING NOR BACKFILL SHALL CONTAIN PARTICLES GREATER THAN TWO INCHES.
  - AREA "A" BACKFILL SHALL BE CRUSHED MESQUITE LEAVES BASE MECHANICALLY COMPACTED TO 95% RELATIVE COMPACTION (CERTIFIED). FOR TRENCHES ACROSS STREETS AREA "A" SHALL BE 3" THICK. FOR TRENCHES ALONG STREETS AREA "A" SHALL BE 6" THICK.
  - BACKFILL SHALL BE PER SSPWC 308-12, 90% RELATIVE COMPACTION.
  - MINIMUM COVER PER GENERAL NOTE 20, SHEET 2.



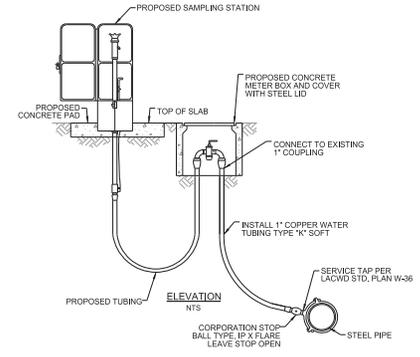
**PROFILE SECTION B-B**  
 N.T.S. 5/7.8



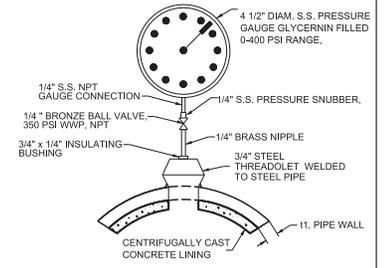
METER VALVE SIZE	MIN. BALL VALVE SIZE	MIN. BSF TUBING	MIN. INSULATING TUBING SERIES
3/4" x 1"	1"	1"	16"
1"	1"	1"	16"
1 1/2"	1 1/2"	1 1/2"	COPPER ELBOW
2"	2"	2"	COPPER ELBOW

- GENERAL NOTES:**
- MINIMUM DISTANCE BETWEEN SERVICE TAPS ON MAIN TO A BELL, COUPLING, JOINT, OR FITTING IS 36".
  - USE A WELDED THREADED OUTLET ON STEEL PIPE (WALL THICKNESS 10 GA AND GREATER). ON ALL METALLIC MAINS, INSTALL AN INSULATING BUSHING BETWEEN CLAMP OR WELDED THREADED OUTLET AND STOP. CLAMP OR WELDED OUTLET SHALL HAVE OUTLET ONE SIZE LARGER THAN STOP TO ALLOW FOR BUSHING. (SEE STANDARD PLAN W-36)
  - TEST AT SYSTEM PRESSURE AND FLUSH SERVICE LINE BEFORE LOCKING.
  - ONLY EXCAVATED SOIL OR BACKFILL MATERIAL APPROVED BY DISTRICT IS TO BE USED TO BACKFILL TRENCH. NO TRASH IS TO BE LEFT IN TRENCH.
  - ALL SERVICE CONNECTIONS SHALL BE INSTALLED FROM THE MAIN IN THE STREET FROM WHICH THE SERVICE IS ADDRESSED, AT RIGHT ANGLES TO THE WATER MAIN, LOCATED AS SHOWN ON PLANS OR DIRECTED BY THE DISTRICT, AND NOT CLOSER THAN TEN (10) FEET TO ANY DRIVEWAY (TOP OF X), WALKWAY, CURB RETURN, OR OTHER UTILITY UNLESS OTHERWISE NOTED ON PLAN.

**WATER SERVICE RECONNECTION**  
 N.T.S. 3/8



**SAMPLING STATION DETAIL**  
 N.T.S. 4/7.8



**PRESSURE GAUGE ASSEMBLY DETAIL**  
 N.T.S. 4.6/7.8

**WATER SERVICE CONNECTION TABLE**

NO.	APN	EX. SERVICE LATERAL SIZE	PROPOSED SERVICE LATERAL SIZE
1	4473025016	1"	1"
2	4473025016	1"	1"

IN ADDITION TO PERMANENT RECONNECTION, TEMPORARY SERVICE TO BE PROVIDED FROM ABOVE-GROUND BYPASS DURING CONSTRUCTION

90% PLANS

NOT FOR CONSTRUCTION



LOS ANGELES COUNTY PUBLIC WORKS  
 WATERWORKS DISTRICT NO. 29, MALIBU  
**ENCINAL CANYON RD  
 EMERGENCY INTERCONNECTION**  
 DETAILS AND SECTIONS

DATE	INITIALS	DESCRIPTION



# City of Malibu

23825 Stuart Ranch Rd., Malibu, California CA 90265-4804  
(310) 456-2489 FAX (310) 456-7650

## BIOLOGY REVIEW REFERRAL SHEET

TO: City of Malibu Biologist

FROM: City of Malibu Planning Department REVISED DATE 05/08/2023

PROJECT NUMBER: CDP 22-030

JOB ADDRESS: CITYWIDE PROJECT

APPLICANT / CONTACT: Katrine Usi, LA County DPW

APPLICANT ADDRESS: 1000 S Fremont Ave  
Alhambra, CA 91803

APPLICANT PHONE #: (626)300-4680

APPLICANT FAX #: \_\_\_\_\_

APPLICANT EMAIL: kusi@dpw.lacounty.gov

PLANNER: Tyler Eaton

PROJECT DESCRIPTION: New Emergency Encinal Interconnection Waterline

TO: Malibu Planning Department and/or Applicant

FROM: City Biologist, Courtney McCammon

The project review package is INCOMPLETE and; CANNOT proceed through Final Planning Review until corrections and conditions from Biological Review are incorporated into the proposed project design (See Attached).

The project is APPROVED, consistent with City Goals & Policies associated with the protection of biological resources and CAN proceed through the Planning process.

The project may have the potential to significantly impact the following resources, either individually or cumulatively: Sensitive Species or Habitat, Watersheds, and/or Shoreline Resources and therefore Requires Review by the Environmental Review Board (ERB).

*Courtney McCammon* 5/18/23

Signature Date

Additional requirements/conditions may be imposed upon review of plan revision

**Contact Information:**

Courtney McCammon, City Biologist, [biology@malibucity.org](mailto:biology@malibucity.org), (310) 456-2489, extension 277



# City of Malibu

Biology • Planning Department  
 23825 Stuart Ranch Road · Malibu, California · 90265-4861  
 Phone (310) 456-2489 · Fax (310) 456-3356 · [www.malibucity.org](http://www.malibucity.org)

## BIOLOGY REVIEW SHEET

### PROJECT INFORMATION

Applicant: (name and email)	Katrine Usi, LA County DPW kusi@dpw.lacounty.gov	
Project Address:	CITYWIDE PROJECT Malibu, CA 90265	
Planning Case No.:	CDP 22-030	
Project Description:	New Emergency Encinal Interconnection Waterline	
Date of Review:	May 18, 2023	
Reviewer:	Courtney McCammon	Signature: 
Contact Information:	Phone: (310) 456-2489 ext 277	Email: <a href="mailto:biology@malibucity.org">biology@malibucity.org</a>

### SUBMITTAL INFORMATION

Site Plan:	
Site Survey:	
Landscape Plan:	
Hydrozone Plan:	
Irrigation Plan:	
Fuel Modification Plan:	
Grading Plan:	
OWTS Plan:	
Bio Assessment:	
Bio Inventory:	
Native Tree Survey:	ESA (March 2023)
Native Tree Protection Plan:	
Miscellaneous:	
Previous Reviews:	

### REVIEW FINDINGS

Review Status:	<input type="checkbox"/> <b>INCOMPLETE:</b> Additional information and/or a response to the listed review comments is required.
	<input checked="" type="checkbox"/> <b>APPROVED:</b> The project has been approved with regards to biological impacts.
	<input type="checkbox"/> <b>CANNOT APPROVE AS SUBMITTED:</b> The proposed project does not conform to the requirements of the MMC and/or LCP.
	<input type="checkbox"/> <b>ERB:</b> This project has the potential to impact ESHA and may require review by the Environmental Review Board pursuant to LIP Section 4.4.4



RECOMMENDATIONS:

1. The project is recommended for **APPROVAL** with the following conditions:
  - A. No new landscaping is proposed with this project. Therefore, none is approved.
  - B. Prior to installation of any landscaping, the applicant shall obtain a plumbing permit for the proposed irrigation system from the Building Safety Division.
  - C. Grading/excavation/vegetation removal scheduled between February 1 - September 15 will require nesting bird surveys by a qualified biologist prior to initiation of such activities. Surveys shall be completed no more than five days from proposed initiation of site preparation activities. Should active nests be identified, a buffer area no less than 150 feet (300 feet for raptors) shall be fenced off until it is determined by a qualified biologist that the nest is no longer active. A report discussing the results of the surveys shall be turned in to the City within two business days of completion of surveys.
  - D. The submitted arborist report identified eight (8) trees within City limits. Four (4) of those eight protected trees are being proposed for encroachment. None are proposed for removal. Below details the construction measures and mitigation measures for the worsened health or loss of any native protected tree.

Pursuant to LIP Chapter 5, projects with the potential to impact one or more native oak (Quercus species), California walnut (Juglans californica), western sycamore (Platanus recemosa), alder (Alnus rhombifolia), or toyon (Heteromelas arbutifolia) tree, that has at least one trunk measuring six inches or more in diameter, or a combination of any two trunks measuring a total of eight inches or more in diameter, measured at four and one half feet above natural grade must include a native tree protection plan.

Pursuant to LIP Section 5.4 identifies specific development standards regarding native trees including:

- Project Construction Measures:
  1. Protective fencing shall be used around limits of the protected zones of the native trees within or adjacent to the construction area that may be disturbed during construction or grading activities. Before the commencement of any clearing, grading, or other construction activities, protective fencing shall be placed around each applicable tree. Fencing shall be maintained in place for the duration of all construction. No construction, grading, staging, or materials storage shall be allowed within the fenced exclusion areas, or within the protected zones of any on-site native trees.
  2. Any approved development, including grading or excavation that encroaches into the protected zone of a native tree shall be constructed using only hand-held tools.
  3. The applicants shall retain the services of a qualified independent biological consultant or arborist, approved by the Planning Manager to monitor native trees that are within or adjacent to the construction area.

4. The permit shall include these requirements as conditions of approval.

LIP Section 5.5 describes the required mitigation options for approved impacts to native trees.

5.5.1. Tree Replacement:

- A. Prior to the issuance of the CDP that includes native tree removal or the loss or worsened health of native trees resulting from encroachment, the applicant shall submit a native tree replacement planting program, prepared by a qualified biologist, arborist, or other resource specialist, which specifies replacement tree locations, tree or seedling size, planting specifications, and a monitoring program to ensure that the replacement planting program is successful, including performance standards for determining whether replacement trees are healthy and growing normally, and procedures for periodic monitoring and implementation of corrective measures in the event that the health of replacement trees declines.
- B. Where the removal of native trees cannot be avoided or where development encroachments into the protected zone of native trees result in the loss or worsened health of the trees, mitigation measures shall include, at a minimum, the planting of replacement trees on site, if suitable area exists on the project site, at a ratio of no less than 10 replacement trees for every one tree removed. The applicant shall plant seedlings, less than one year old on an area of the project site where there is suitable habitat. In the case of oak trees, the seedlings shall be grown from acorns collected in the area.

5.5.2 Alternative Mitigation:

- A. Where on-site mitigation through planting replacement trees is not feasible, mitigation shall be provided by one of the following methods:
  1. Off-site mitigation shall be provided by planting no less than 10 replacement trees for every one tree removed, at a suitable site that is restricted from development or is public parkland. The applicant shall plant seedlings, less than one year old in an area where there is suitable habitat. In the case of oak trees, the seedlings shall be grown from acorns collected in the area; or
  2. An in-lieu fee shall be provided for the unavoidable impacts of the loss of native tree habitat. The fee shall be based on the type, size and age of the tree(s) removed.

The fee shall be paid to the Native Tree Impact Fund, administered by the Santa Monica Mountains Conservancy.

2. **UPON COMPLETION OF THE PROJECT**, the City Biologist shall inspect the project site and determine that all planning conditions to protect natural resources are in compliance with the approved plans.

**-00-**

If you have any questions regarding the above requirements, please contact the City Biologist office at your earliest convenience.

cc: Planning Project file  
Planning Department



# City of Malibu

23825 Stuart Ranch Rd., Malibu, California CA 90265-4804  
(310) 456-2489 FAX (310) 456-7650

## GEOTECHNICAL REVIEW REFERRAL SHEET

TO: City of Malibu Geotechnical Staff

FROM: City of Malibu Planning Department

DATE: 06/13/2022

PROJECT NUMBER: CDP 22-030

JOB ADDRESS: CITYWIDE PROJECT

APPLICANT / CONTACT: Katrine Usi, LA County DPW

APPLICANT ADDRESS: 1000 S Fremont Ave  
Alhambra, CA 91803

APPLICANT PHONE #: (626)300-4680

APPLICANT FAX #:

APPLICANT EMAIL: kusi@dpw.lacounty.gov

PROJECT DESCRIPTION: New Emergency Encinal Interconnection  
Waterline

TO: Malibu Planning Division and/or Applicant

FROM: City Geotechnical Staff

The project is feasible and CAN proceed through the Planning process. \*

The project CANNOT proceed through the planning process until geotechnical feasibility is determined. Depending upon the nature of the project, this may require engineering geologic and/or geotechnical engineering (soils) reports which evaluate the site conditions, factor of safety, and potential geologic hazards.

SIGNATURE

DATE

1-23-22

Determination of geotechnical feasibility for planning should not be construed as approval of building and/or grading plans which need to be submitted for Building Department approval. At that time, those plans may require approval by City Geotechnical Staff. Additional requirements/conditions may be imposed at the time building and/or grading plans are submitted for review, including geotechnical reports

City Geotechnical Staff may be contacted on Tuesday and Thursday between 8:00 am and 11:00 am or by calling (310) 456-2489, extension 306 or 307.

\* Project is approved, see appended review letter with comments to be addressed in Building Plan Check.



# City of Malibu

23825 Stuart Ranch Road • Malibu, California 90265-4861  
(310) 456-2489 • Fax (310) 456-3356 • www.malibucity.org

## GEOTECHNICAL REVIEW SHEET

<u>Project Information</u>		Review Log #:	4154
<b>Date:</b>	January 24, 2023	<b>Planning #:</b>	CDP 22-030
<b>Site Address:</b>	Encinal Canyon Water line	<b>BPC/GPC #:</b>	
<b>Lot/Tract/PM #:</b>	n/a	<b>Planner:</b>	Tyler Eaton
<b>Applicant/Contact:</b>	Katrine Usi, Kusi@dpw.lacounty.gov		
<b>Contact Phone #:</b>	(626)300-4680	<b>Fax #:</b>	
<b>Project Type:</b>	Encinal Canyon Water line replacement		

<u>Submittal Information</u>	
<b>Consultant(s) / Report</b>	Los Angeles County Public Works GMED Group (Johnson, CEG 2050; Mann, RCE 74899): <b>7-20-2021</b> (submitted June 2022)
<b>Date(s):</b> (Current submittal(s) in <i>Bold.</i> )	
<b>Previous Reviews:</b>	None.

<u>Review Findings</u>	
<b><u>Coastal Development Permit Review</u></b>	
<input checked="" type="checkbox"/>	The proposed project is <b><u>ACCEPTABLE</u></b> from a geotechnical perspective.
<input type="checkbox"/>	The proposed project is <b><u>NOT ACCEPTABLE</u></b> from a geotechnical perspective.

Project submittals were reviewed from a geotechnical perspective for conformance with applicable codes, guidelines and standards of practice, including the following current City adopted standards:

- City of Malibu Local Coastal Program – Land Use Plan and Local Implementation Plan (LCP-LUP and LCP-LIP)
- Malibu Municipal Code – Title 15, Buildings and Construction
- City of Malibu Guidelines for the Preparation of Geotechnical Reports and Procedures for Report Submittal (November 2013) referred to herein as Geotechnical Report Guidelines

In the case of conflicting requirements between the Geotechnical Guidelines and any other referenced standards, the latest standard will apply. The Applicant is responsible for complying with the submittal requirements for all Planning variances, as appropriate; any questions regarding variances should be directed to the case Planner.

### Remarks

The referenced geotechnical report and project plans contained in the report were reviewed by the City's consultants from a geotechnical perspective. Based on the submitted information, the project includes the replacement of 7,096 linear feet of an existing asbestos 4-inch water line with a new 12-inch water line to provide water from Las Virgenes Municipal Water District to LACWWD 29. The geotechnical investigation included 26 borings drilled and sampled to depths of 10 to 40 feet in depth along the alignment, along with laboratory testing of the earth materials encountered in the borings.

Variability of materials were mapped along the alignment, and the location of existing landslides along the northern alignment were identified. Potential creep due to geologic features will be mitigated by flexible connections and uniform trench backfill. The following comments below are provided to assist the Applicant in the final project design.

No response is required.

**Comments:**

1. Based on the City’s consulting geotechnical reviewers’ knowledge of Encinal Canyon Road and review of geotechnical reports for single family residential developments in the area, there are reports in the City’s geology files (4343 Encinal Canyon Road by Mountain Geology, 2004 to 2012; and 4102 Encinal Canyon by Land Phases, October 16, 2017) that may be useful in further defining the limits of the landslides identified along the northern section of the pipeline replacement project. These reports should be reviewed to assist in the locations and spacing of the flexible connections.
2. The material variability based on the subsurface exploration and identified landslide limits should be shown on the project alignment plans along with the location of the flexible connections.
3. The plans should include trenching and backfill recommendations for pipeline installation as notes and details on the plans.

Engineering Geology Review by:  1/24/2023  
 Christopher Dean, C.E.G. #1751, Exp. 9-30-24  
 Engineering Geology Reviewer (408-656-3210)  
 Email: [cdean@malibucity.org](mailto:cdean@malibucity.org)  
 Date

Geotechnical Engineering Review by:  1/24/2023  
 Lauren J. Doyel, G.E. #2981, Exp. 6-30-23  
 Geotechnical Engineering Reviewer (805-496-1222)  
 Email: [ldoyel@malibucity.org](mailto:ldoyel@malibucity.org)  
 Date

*This review sheet was prepared by representatives of Cotton, Shires and Associates, Inc. and GeoDynamics, Inc., contracted through Cotton, Shires and Associates, Inc., as an agent of the City of Malibu.*



**COTTON, SHIRES AND ASSOCIATES, INC.**  
CONSULTING ENGINEERS AND GEOLOGISTS



**GeoDynamics, Inc.**  
Applied Earth Sciences  
Geotechnical Engineering & Engineering Geology Consultants



# City of Malibu

23825 Stuart Ranch Rd., Malibu, California CA 90265-4861  
(310) 456-2489 FAX (310) 456-7650

## PUBLIC WORKS REVIEW REFERRAL SHEET

TO: Public Works Department

FROM: City of Malibu Planning Department

DATE: 06/13/2022

PROJECT NUMBER: CDP 22-030

JOB ADDRESS: CITYWIDE PROJECT

APPLICANT / CONTACT: Katrine Usi, LA County DPW

APPLICANT ADDRESS: 1000 S Freemont Ave  
Alhambra, CA 91803

APPLICANT PHONE #: (626)300-4680

APPLICANT FAX #: \_\_\_\_\_

APPLICANT EMAIL: kusi@dpw.lacounty.gov

PROJECT DESCRIPTION: New Waterworks pipe within public ROW

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TO: Malibu Planning Department and/or Applicant

FROM: Public Works Department

The following items described on the attached memorandum shall be addressed and resubmitted.

The project was reviewed and found to be in conformance with the City's Public Works and LCP policies and CAN proceed through the Planning process.

SIGNATURE

10/12/22

DATE



# City of Malibu

## MEMORANDUM

To: Planning Department

From: Public Works Department  
Jorge Rubalcava PE, Senior Civil Engineer

Date: October 12, 2022

Re: Proposed Conditions of Approval for Citywide Project CDP 22-030

The Public Works Department has reviewed the plans submitted for the above referenced project. Based on this review sufficient information has been submitted to confirm that conformance with the Malibu Local Coastal Plan (LCP) and the Malibu Municipal Code (MMC) can be attained. Prior to the issuance of building and grading permits, the applicant shall comply with the following conditions.

### STREET IMPROVEMENTS

1. This project proposes to construct improvements within the City's right-of-way. Prior to the Public Works Department's approval of any permits, the applicant shall obtain an encroachment permit from the Public Works Department for the proposed work within the City's right-of-way.

### STORMWATER

2. A Local Storm Water Pollution Prevention Plan shall be provided prior to the issuance of the Grading/Building permits for the project. This plan shall include an Erosion and Sediment Control Plan (ESCP) that includes, but not limited to:

Erosion Controls	Scheduling
	Preservation of Existing Vegetation
Sediment Controls	Silt Fence
	Sand Bag Barrier
	Stabilized Construction Entrance
Non-Storm Water Management	Water Conservation Practices
	Dewatering Operations
Waste Management	Material Delivery and Storage



	Stockpile Management
	Spill Prevention and Control
	Solid Waste Management
	Concrete Waste Management
	Sanitary/Septic Waste Management

All Best Management Practices (BMP) shall be in accordance to the latest version of the California Stormwater Quality Association (CASQA) BMP Handbook. Designated areas for the storage of construction materials, solid waste management, and portable toilets must not disrupt drainage patterns or subject the material to erosion by site runoff.

**MISCELLANEOUS**

3. The developer’s consulting engineer shall sign the final plans prior to the issuance of permits.
4. Applicant shall provide a traffic control plan stamped by a professional civil or traffic engineer. At a minimum, two changeable message signs shall be placed.
5. Existing pipe shall be removed, not abandoned.
6. Trench backfill shall be a two-sack slurry within the paved roadway.
7. Striping restoration shall match existing material.
8. Temporary staging location shall be approved by Public Works if it is in the city’s right-of-way.

Click here to enter text.



# ENCINAL CANYON ROAD EMERGENCY INTERCONNECTION PROJECT

## Oak and Native Tree Survey Report

Prepared for  
Los Angeles County Department of Public Works  
Transportation Planning & Programs Division  
900 S. Fremont Avenue  
Alhambra, CA 91803

March 2023



# ENCINAL CANYON ROAD EMERGENCY INTERCONNECTION PROJECT

## Oak and Native Tree Survey Report

Prepared for  
Los Angeles County Department of Public Works  
Transportation Planning & Programs Division  
900 S. Fremont Avenue  
Alhambra, CA 91803

March 2023

Prepared by  
Environmental Science Associates  
Ryan Gilmore  
ASCA RCA #769/ ISA WE-9009BM

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# TABLE OF CONTENTS

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## Oak and Native Tree Survey Report

	<u>Page</u>
<b>1. Introduction.....</b>	<b>1</b>
<b>2. Protected Tree Regulations .....</b>	<b>2</b>
2.1 City of Malibu Local Coastal Program .....	2
2.2 Santa Monica Mountains Local Coastal Plan Oak and Native Tree Protection .....	2
<b>3. Project Description and Location.....</b>	<b>3</b>
<b>4. Existing Conditions.....</b>	<b>3</b>
<b>5. Methods.....</b>	<b>6</b>
5.1 Tree Survey.....	6
5.2 Mapping.....	7
<b>6. Results.....</b>	<b>7</b>
<b>7. Impact Assessment.....</b>	<b>7</b>
<b>8. Tree Management and Preservation Program .....</b>	<b>10</b>
8.1 Qualified Arborist Qualifications.....	10
8.2 Protective Fencing/Flagging .....	10
8.3 Trenching .....	10
8.4 Equipment and Material Storage .....	11
8.5 Watering Around Oak and Native Trees.....	11
8.6 Construction Monitoring and Post-Construction Reporting .....	11
<b>9. Oak and Native Tree Mitigation.....</b>	<b>11</b>
<b>10. Bibliography .....</b>	<b>11</b>

### Appendices

- A. Oak and Native Tree Survey Matrix
- B. Oak and Native Tree Photographs
- C. Oak and Native Tree Location Exhibit
- D. Oak and Native Tree Impacts Exhibit

### Figures

Figure 1 Regional Location .....	4
Figure 2 Project Location .....	5

### Tables

Table 1 Oak and Native Tree Impacts .....	9
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# OAK AND NATIVE TREE SURVEY REPORT

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## Encinal Canyon Road Emergency Interconnection Project

### 1. Introduction

A survey of oak and native trees was conducted within and immediately adjacent to (50 feet from the each edge of the roadway) Encinal Canyon Road within the City of Malibu (City) and unincorporated Los Angeles County (County), California, in support of the proposed Los Angeles County Department of Public Works (LADPW) Encinal Canyon Road Emergency Interconnection Project (Project Site). The majority of the Project Site is located within the City with the remaining northern portion within the County. Therefore, the project will be required to be in compliance with both the City of Malibu Local Coastal Program (Malibu LCP) and the Los Angeles County Santa Monica Mountains Local Implementation Program (SMM LIP). The project Environmental Impact Report (EIR) Mitigation Measure (MM) BIO-11 requires compliance with the aforementioned Malibu LCP and County SMM LIP.

The Malibu LCP protects all native oak (*Quercus* species), southern California black walnut (*Juglans californica*), western sycamore (*Platanus racemosa*), alder (*Alnus rhombifolia*), or toyon (*Heteromeles arbutifolia*) trees, that have at least one trunk measuring six inches or more in diameter, or a combination of any two trunks measuring a total of eight inches cumulative or more in diameter, measured at four and one-half feet above natural grade (diameter at standard height [DSH]). The SMM LIP protects oak, western sycamore, southern California black walnut, California bay (*Umbellularia californica*) or any other species of native trees (e.g., toyon) present on a project site with a single trunk diameter of six inches or greater, and trees with a combination of any two trunks measuring a total of eight inches cumulative or more at DSH.

The oak and native tree survey and the contents of this report have been prepared in accordance with requirements specified in the City Native Tree Protection Ordinance (Ordinance; Chapter 5) within the City and the Coastal Development Permit – Oak Tree Requirements, Sections 22.44.950 and 22.44.1920.K Native Tree Protection, in the County SMM LIP, a component of the Santa Monica Mountains Local Coastal Program (LCP) (2014), administered by the County.

This report provides an overview of the locations, sizes, types, and conditions of all oak and native trees that were mapped during the survey and identifies those, if any, that will be impacted during proposed construction activities. A Tree Management and Preservation Program that includes guidelines for the preservation of oak and native trees is provided at the end of this report.

## 2. Protected Tree Regulations

### 2.1 City of Malibu Local Coastal Program

The Malibu LCP requires compliance with City Native Tree Protection Ordinance (Ordinance). The Malibu LCP and Ordinance recognize the importance of native oaks, California walnut, western sycamore, alder, and toyon to local ecosystems as well as to the scenic quality of the community, and includes provisions for the protection and preservation of these native trees. Protected trees are defined as those of the aforementioned species that have a single trunk diameter of 6 inches or greater, or at least two trunks that equal 8 inches in diameter when combined, when measured at DSH. The mitigation guidelines are as follows:

- Removal: 10:1 replacement ratio planted onsite or at a suitable site that is restricted from development or is public parkland or payment of an in-lieu fee. The in-lieu fee shall be provided for the unavoidable impacts of the loss of native tree habitat and be based on the type, size and age of the tree(s) removed. The fee shall be paid into the Native Tree Impact Mitigation Fund, administered by the Santa Monica Mountains Conservancy. Replacement tree shall be monitored annually for a period of not less than ten years.
- Encroachment: the affected tree shall be monitored annually for a period of not less than ten years. If an encroached tree fails it shall be mitigated at the 10:1 replacement ratio and the requirements stated above.
- Replacement trees shall plant seedlings, less than one year old and be grown from acorns collected in the area.

### 2.2 Santa Monica Mountains Local Coastal Plan Oak and Native Tree Protection

In accordance with Sections 22.44.950 and 22.44.1920.K of the LIP, mitigation is required for the encroachment and/or removal of oak and native trees resulting from approved project activities. The mitigation guidelines are as follows:

- Removal, encroachment of greater than 30 percent of the tree protection zone (TPZ; crown dripline plus five feet or 15 feet from trunk, whichever is greater), and/or encroachment that extends within 3 feet of a trunk = 10:1 replacement ratio
- Encroachment between 10–30 percent of the TPZ, or trimming of a branch greater than 11 inches in diameter = 5:1 replacement ratio
- Encroachment of less than 10 percent of the TPZ = Replacement mitigation not required; tree shall be monitored for a period no less than 10 years

Replacement trees should come from local stock (i.e., Los Angeles or Ventura Counties) and be planted on-site, unless it is determined through coordination with the County that this is not feasible and the project is approved otherwise. All replacement oak trees shall be planted with a locally sourced acorn (i.e., from the Santa Monica Mountains) within the watering zone of the replacement tree.

All oak and native trees encroached up to 30 percent within the TPZ shall be monitored for no less than 10 years following the completion of construction activities to ensure that there is not a

decline in health. If any such tree is determined to have declined and died as a result of construction activities, it will be replaced at a ratio of 10:1 and monitored for an additional 10 years.

### 3. Project Description and Location

The proposed Encinal Canyon Road Emergency Interconnection Project is located within the Encinal Canyon Road right-of-way (ROW) within the City and unincorporated County. The Project Site APNs include: 4472-028-033, 4472-028-041, 4473-006-004, 4473-006-008, 4473-006-010, 4473-006-018, 4473-006-019, 4473-006-020, 4473-006-030, 4473-006-031, 4473-006-033, 4473-006-036, 4473-006-901, 4473-008-010, 4473-008-034, 4473-008-035, 4473-011-047, 4473-011-048, 4473-025-005, 4473-025-006, 4473-025-009, 4473-025-012, 4473-025-013, 4473-025-016, 4473-025-017, 4473-025-025, 4473-025-026, 4473-025-027, 4473-026-003, and 4473-026-008. The study area (Study Area) includes the approximately 7,200 linear foot ROW and a 50-foot buffer for the tree survey. The proposed project is a water pipeline interconnection improvement project. The purpose of the project is to construct a 7,200 linear feet of 12-inch diameter steel water main pipeline interconnecting the City water main with the Las Virgenes Municipal Water District. This interconnection will provide a vital water source for the region in case of emergency.

The study area is located within the Santa Monica Mountains of Los Angeles County (**Figure 1, Regional Location**), within the United States Geological Survey Point Dume and Triunfo Pass, California, 7.5-minute topographic quadrangles (**Figure 2, Project Location**) and is situated within the Coastal Zone. The proposed project would be constructed within the existing Encinal Canyon Road roadway adjacent to open space areas supporting native vegetation in the Santa Monica Mountains and interspersed with rural residential developments. The core of the city of Malibu is located approximately 2.5 miles to the east, the city of Thousand Oaks is located approximately 8.5 miles to the north, and California State Route 1 and the Pacific Ocean are approximately 0.25 miles to the south.

### 4. Existing Conditions

The entire Project Site is currently existing within the Encinal Canyon Road ROW. The Project Site is surrounded by open space areas supporting native vegetation in the Santa Monica Mountains and interspersed with rural residential developments.



Path: U:\GIS\GIS\Projects\16xxxx\1600075\_14\_EncinalCanyonRdEmergency\03\_Project\Arborist.aprx Fig 1 - Regional Location, MCScott - 2/27/2023

SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Figure 1**  
Regional Location





SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Figure 2**  
Project Location



## 5. Methods

### 5.1 Tree Survey

An arborist assessment and inventory of all oak and native trees within the Study Area were conducted on February 10, 2023 by the ESA arborist, who is an American Society of Consulting Arborists (ASCA) Registered Consulting Arborist (RCA) and International Society of Arboriculture (ISA) Board Certified Master Arborist (BCMA). The ESA Arborist Ryan Gilmore (RCA #769/ISA WE-9009BM) inventoried all oaks and native trees within the Project Site and a 50-foot survey buffer (Study Area). For each tree, the trunk location was recorded with Collector for ArcGIS using an Arrow 100 Submeter<sup>®</sup> GNSS Receiver and a smart phone. Survey data for each oak and native tree is provided in **Appendix A – Oak and Native Tree Survey Matrix**. A representative photograph was taken of each oak and native tree and is provided in **Appendix B – Oak and Native Tree Photographs**. Physical characteristics and conditions were not collected for non-native/ornamental trees, nor were they included in the impact assessment.

The following data were collected for each oak and native tree.

#### Physical Characteristics

- Trunk Diameter – Diameter at breast height (DBH, measured at 4.5 feet above mean natural grade), measured from the base of the tree using a forester’s diameter-equivalent tape.
- Crown spread – The crown spread from the trunk to the dripline in eight directions (N, NE, E, SE, S, SW, W, NW).
- Height – estimated at an appropriate distance from the tree.

#### Physical Condition

- Identification of damage caused by pathogens or insect pests, by natural causes such as lightning, or by human activity.
- Evaluation of vigor based on such parameters as amount of new growth, leaf color, abnormal bark, dead wood, evidence of wilt, excessive necrosis or leaf chlorosis, thinning of crown, etc.
- Assessment of the overall health of the tree based on the evaluation of vigor, presence of damage, and comparison to the typical archetype tree of the same species.

#### Rating

For each tree, a subjective alphabetical rank of “A” through “F” was assigned for each of four categories: vigor, overall health, aesthetic value, and balance. Rating was based on the criteria described below:

- “A” = Very Healthy/Excellent: A healthy and vigorous tree, characteristic of its species and reasonably free of any visible signs of stress, disease, or pest infestation. With regard to balance and aesthetics, trunks are straight, canopies are well balanced, and the tree exemplifies the ideal archetype for the species.
- “B” = Healthy/Good: A healthy and vigorous tree with minor visible signs of stress, disease, and/or pest infestation. Some maintenance measures may need to be implemented, such as

pruning of dead wood or broken branches. Tree may lean slightly, canopies may not be evenly balanced, or the tree may otherwise be marginally challenged aesthetically.

- “C” = Average Health/Fair: Although healthy in overall appearance, there is abnormal amount of stress or disease/insect infestation, and a substantial amount of maintenance may be needed. The trunk may be growing at a more substantial angle or the canopy may have “holes” or be further out of balance.
- “D” = Dying/Poor: A tree that may be exhibiting substantially more stress, disease, or insect damage than what is expected for the species. The tree may be in a state of rapid decline, and may show various signs of dieback, necrosis, or other symptoms caused by pathogens or insect pests. The tree may lean significantly and the canopy is far out of balance.
- “F” = Dead/Very Poor: This tree has no foliage and exhibits no sign of life or vigor. Tree may be prone on the ground or otherwise severely aesthetically compromised.

## 5.2 Mapping

All surveyed oak and native trees were subsequently mapped in ArcGIS over the Site Plan to determine which trees would be avoided, encroached, or removed by the proposed project design (see **Appendix C – Oak and Native Tree Location Exhibit**). Encroachment is defined as construction taking place within the TPZ. The trunks’ locations within **Appendix C – Oak and Native Tree Location Exhibit** are based on the GPS waypoint locations of the trees that were recorded from one side of the trees’ trunks by the arborist. Crown spreads were based on approximated measurements in the field that were later digitized in ArcGIS. As stated above, the trunk location was collected for each tree mapped during the survey.

## 6. Results

A total of twenty-nine (29) protected trees, including one California scrub oak (*Quercus berberidifolia*), twenty-seven (27) coast live oak (*Quercus agrifolia*), and a single western sycamore were recorded within the Study Area. A total of 21 trees are located within the County with the remaining eight trees located within the City. The locations of the oak and native trees are provided in **Appendix C – Oak and Native Tree Location Exhibit**. A summary of the oak and native trees within the Study Area is provided in **Appendix A – Oak and Native Tree Survey Matrix**. Representative photographs of each tree are provided in **Appendix B – Oak and Native Tree Photos**.

## 7. Impact Assessment

The project will involve trenching, construction of a water pipeline, and reconstruction of the asphalt concrete pavement. The resulting impact to oak and native trees will vary based on their proximity to construction activities. The locations of the oak and native trees with impact status are provided in **Appendix D – Oak and Native Tree Impacts Exhibit**. The determination made regarding the type and extent of each tree impact is based on the following:

- Avoidance – Proposed construction does not extend within the TPZ of an oak and native tree.
- Encroachment – Proposed construction extends into the TPZ of an oak and native tree and is expected to result in new impacts. Encroachment is broken into three types:

- greater than 30 percent of the TPZ
- 10–30 percent of the TPZ
- less than 10 percent of the TPZ
- Removal – Proposed construction will result in the removal of the oak and native tree.

As depicted on the Site Plan (see **Appendix D – Oak and Native Tree Impacts Exhibit**), a total of four coast live oak trees located within the City jurisdiction will be encroached into the TPZ in order to accommodate the proposed construction activities for the new infrastructure. No oak and native trees located with the County jurisdiction will be impacted. No trees will require removal. It should be noted that these impact calculations are based a surface projection analysis that determines the approximate percentage of the TPZ encroached upon and may not represent the actual rootzone of an individual tree. Trees growing in similar conditions (i.e. adjacent an existing roadway) generally have deep roots and do not grow extensively within a road bed as the conditions are inadequate to support appropriate tree root-growing conditions. Impacts in these situations are generally lesser than projected. **Table 1, Oak and Native Tree Impacts**, lists the species of each oak and native tree surveyed, its physical location on-site, its trunk diameter, and whether it will be removed, encroached (and to what percentage), or avoided during project construction. In addition, all data associated with each oak and native tree collected during the survey (e.g., trunk diameter, height, canopy spread, health grades) is provided in **Appendix A, Oak and Native Tree Survey Matrix**.

**TABLE 1**  
**OAK AND NATIVE TREE IMPACTS**

Tree #	Species	Trunk Diameter (DSH)	Removal	Encroachment (Percent of Encroachment in tree protective zone)			Avoided	Mitigation Ratio	City/County
				<10 %	10-30%	>30%			
1	California Scrub Oak	4, 4.5	--	--	--	--	X	--	City
2	Western Sycamore	10,10	--	--	--	--	X	--	City
3	Coast Live Oak	7,7	--	--	--	--	X	--	City
4	Coast Live Oak	6,6	--	--	--	--	X	--	City
5	Coast Live Oak	8,7,7	--	--	--	--	X	--	City
6	Coast Live Oak	13,6	--	--	--	--	X	--	City
7	Coast Live Oak	6	--	--	--	--	X	--	City
8	Coast Live Oak	13,15	--	X	--	--	--	--	City
9	Coast Live Oak	8	--	--	--	--	X	--	City
10	Coast Live Oak	12,9,6	--	X	--	--	--	--	City
11	Coast Live Oak	9	--	--	--	--	X	--	City
12	Coast Live Oak	12	--	X	--	--	--	--	City
13	Coast Live Oak	14,13,13,11,6	--	X	--	--	--	--	City
14	Coast Live Oak	12	--	--	--	--	X	--	City
15	Coast Live Oak	12	--	--	--	--	X	--	County
16	Coast Live Oak	14,6	--	--	--	--	X	--	County
17	Coast Live Oak	19	--	--	--	--	X	--	County
18	Coast Live Oak	20,7	--	--	--	--	X	--	County
19	Coast Live Oak	12	--	--	--	--	X	--	County
20	Coast Live Oak	26	--	--	--	--	X	--	County
21	Coast Live Oak	9	--	--	--	--	X	--	County
22	Coast Live Oak	15	--	--	--	--	X	--	County
23	Coast Live Oak	13,5,12	--	--	--	--	X	--	City
24	Coast Live Oak	15,6,6	--	--	--	--	X	--	City
25	Coast Live Oak	9	--	--	--	--	X	--	City
26	Coast Live Oak	11	--	--	--	--	X	--	City
27	Coast Live Oak	16,11,11,12,6	--	--	--	--	X	--	City
28	Coast Live Oak	17,15	--	--	--	--	X	--	City
29	Coast Live Oak	18.5,20	--	--	--	--	X	--	City

## 8. Tree Management and Preservation Program

The proposed project is sited to minimize impact to oak and native trees; however, construction activities have the potential to negatively affect oak and native trees close to work areas. Activities that may have an effect on adjacent trees include excavation, trenching, soil compaction, change of grade, drainage, and equipment/material staging and parking. The guidelines provided below should be implemented to ensure that all oak and native trees mapped within the study area are protected during construction.

### 8.1 Qualified Arborist Qualifications

Overall supervision of protected tree monitoring shall be the responsibility of a qualified arborist. A qualified arborist shall at a minimum be an ISA Certified Arborist. The qualified arborist should educate all participants with regard to tree impact minimization measures. In addition, the qualified arborist should be monitoring any initial ground disturbance activities (i.e. trenching) located within a TPZ.

### 8.2 Protective Fencing

Equipment damage to limbs, trunks, and roots of all oak and native trees should be avoided during project construction and development. Even slight trunk injuries can result in susceptibility to long-term pathogenic maladies.

- As feasible protective fencing not less than 4 feet in height should be placed at the limits of the TPZ of all trees that are deemed by a qualified arborist to be in proximity to work areas. For areas where numerous trees are located immediately adjacent to construction, the work area boundaries may be delineated with flagging to prevent encroachment into the TPZ of adjacent trees.

The protective fencing/flagging should be inspected by a qualified arborist prior to grading or ground-disturbing activities and should be maintained and remain in place until construction is completed.

- Fencing/flagging should remain intact until a qualified arborist verifies that it can be removed. If encroachment into the fencing/flagging occurs at any time during construction activities, all work shall be suspended until the fence is repaired or replaced.

### 8.3 Trenching

Trees that have been identified to have TPZs overlapping the proposed trenching location will potentially experience root loss and will require supervised root pruning. Root pruning should be conducted according to ISA or ANSI A300 tree pruning standards. Any root pruning should be done under the direction of a qualified arborist. During trenching, roots encountered that are 1 inch in diameter and larger shall be cleanly cut at right angles to avoid root tearing. Trenching shall be accomplished by hand tools or other methods that avoid and minimize damage to tree roots as much possible. An qualified arborist shall ensure that all pruning cuts be clean and sharp to minimize ripping, tearing, and fracturing of the root system. Root damage caused by backhoes or similar equipment is severe and may ultimately result in tree mortality.

## 8.4 Equipment and Material Storage

Temporary structures, equipment, supplies, vehicles, and/or debris should not be stored within the TPZ of an oak and native tree to prevent contamination and/or compaction of soil within the root system.

## 8.5 Watering Around Oak and Native Trees

Naturally occurring trees generally do not require supplemental water, and unseasonable irrigation (i.e., water generated during construction) may result in the decline of an oak and native tree. Care should be taken to prevent supplemental water from entering the TPZ of an oak and native tree during and following completion of construction activities, unless otherwise recommended by a qualified arborist.

## 8.6 Construction Monitoring and Post-Construction Reporting

In addition, a qualified arborist should be present during all initial ground disturbance activities located within a TPZ to ensure that oak and native trees roots are pruned to appropriate ISA standards. The qualified arborist will record and determine the estimated amount of root loss. Following completion of the initial grading activities, a post-construction monitoring report should be submitted to the City that includes a brief overview of the construction activities monitored, verifies that impacts to oak and native trees were minimized, and provides any recommendations necessary to preserve the trees moving forward and a summary of required mitigation based on actual observed root impacts.

# 9. Oak and Native Tree Mitigation

The proposed project, as currently designed, will encroach upon a total of four City regulated coast live oak trees. Per the Malibu LCP encroached trees shall be monitored annually for a period of not less than ten years. If an encroached tree fails, it shall be mitigated at the 10:1 replacement ratio and comply with the requirements stated above. However, the actual project impacts may be observed to be minimal as will be documented by a qualified arborist. If minimal roots are encountered during construction due to the overall presence of the work being conducted within the existing ROW, it is recommended that LADPW request the City for an exemption from the required ten years of post-construction monitoring for the four encroached coast live oak trees. Final impacts and recommended mitigation will be summarized by a qualified arborist in the post-construction monitoring report for submission to the City.

# 10. Bibliography

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Nelda, Matheny, and James R. Clark. 1998. *Trees and Development: A Technical Guide to Preservation of Trees during Land Development*. Champaign, IL: International Society of Arboriculture.

## Certification of Performance

*I, Ryan Gilmore, certify:*

- That I have personally inspected the tree(s) and/or the property referred to in this report, and have stated my findings accurately. The extent of the evaluation and appraisal is stated in the attached report and the Terms of Assignment;
- That I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved;
- That the analysis, opinions, and conclusions stated herein are my own;
- That my analysis, opinions, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices;
- That no one provided significant professional assistance to the consultant, except as indicated within the report;
- That my compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party.

I further certify that I am a member of the American Society of Consulting Arborists, Registered Consulting Arborist (RCA) #769, and acknowledge, accept, and adhere to the ASCA Standards of Professional Practice. I am an International Society of Arboriculture Board Certified Master Arborist (BCMA) WE-9009BM, and have been involved in the practice of arboriculture and the study of trees for over 23 years.

*Signed:*



Date: 03/01/2023

Ryan Gilmore  
*Managing Biologist/Urban Forester*



Unauthorized separation or removal of any portion of this report deems it invalid as a whole. Conditions represented in this report are limited to the inventory date and time. Rating for health and structure do not constitute a health or structural guarantee beyond that date.

## Arborist Disclosure Statement

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Formal risk assessments were not requested nor performed on the trees in this report.

Appendix A  
**Oak and Native Tree Survey  
Matrix**

**APPENDIX A  
OAK AND NATIVE TREE INVENTORY**

Tree #	Species	DBH (in.)	Latitude/Longitude		Ht. (ft)	Crown Measurements (in ft.)								Health	Structure	Impact Status	Regulated Status	Comments
						N	NW	W	SW	S	SE	E	NE					
1	California scrub oak ( <i>Quercus berberidifolia</i> )	4.4.5	34.043832	-118.8759974	11	4	4	4	4	4	4	4	4	C	C	Avoided	City	
2	western sycamore ( <i>Platanus racemosa</i> )	10,10	34.05148201	-118.8721988	25	9	9	12	15	18	18	9	9	D	D	Avoided	City	Fire Damage.
3	coast live oak ( <i>Quercus agrifolia</i> )	7,7	34.05153448	-118.8721854	18	6	6	6	6	6	6	6	6	D	D	Avoided	City	Fire Damage.
4	coast live oak ( <i>Quercus agrifolia</i> )	6,6	34.05167811	-118.8716918	9	4	4	4	4	4	6	6	6	D	D	Avoided	City	Fire Damage.
5	coast live oak ( <i>Quercus agrifolia</i> )	8,7,7	34.05177185	-118.8714493	17	12	6	6	6	9	9	8	9	D	D	Avoided	City	Fire Damage.
6	coast live oak ( <i>Quercus agrifolia</i> )	13,6	34.05184165	-118.8714187	18	8	8	8	8	8	8	8	8	D	D	Avoided	City	Fire Damage.
7	coast live oak ( <i>Quercus agrifolia</i> )	6	34.05188931	-118.8712501	12	4	4	4	4	4	4	4	4	D	D	Avoided	City	Fire Damage.
8	coast live oak ( <i>Quercus agrifolia</i> )	13,15	34.05190687	-118.8711216	18	12	16	16	16	18	18	18	16	D	D	Encroached	City	Fire Damage.

Tree #	Species	DBH (in.)	Latitude/Longitude		Ht. (ft)	Crown Measurements (in ft.)								Health	Structure	Impact Status	Regulated Status	Comments
						N	NW	W	SW	S	SE	E	NE					
9	coast live oak ( <i>Quercus agrifolia</i> )	8	34.05221793	-118.8708564	17	5	5	12	18	18	12	8	5	D	D	Avoided	City	Fire Damage.
10	coast live oak ( <i>Quercus agrifolia</i> )	12,9 ,6	34.0522158	-118.8708217	20	8	8	12	16	18	18	10	10	C	C	Encroached	City	Fire Damage.
11	coast live oak ( <i>Quercus agrifolia</i> )	9	34.05221948	-118.8708058	20	16	14	14	6	6	6	7	16	D	D	Avoided	City	Fire Damage.
12	coast live oak ( <i>Quercus agrifolia</i> )	12	34.05222734	-118.8707874	18	3	3	3	12	18	18	16	16	D	D	Encroached	City	Fire Damage.
13	coast live oak ( <i>Quercus agrifolia</i> )	14,1 3,13 ,11, 6	34.05230892	-118.8707588	25	8	10	18	18	22	22	12	12	C	C	Encroached	City	Fire Damage.
14	coast live oak ( <i>Quercus agrifolia</i> )	12	34.0522996	-118.8708388	18	4	4	4	4	4	4	4	4	D	D	Avoided	City	Fire Damage.
15	coast live oak ( <i>Quercus agrifolia</i> )	12	34.05242024	-118.8707686	18	5	5	5	5	5	5	5	5	F	F	Avoided	County	Fire Damage.
16	coast live oak ( <i>Quercus agrifolia</i> )	14,6	34.05243013	-118.8707076	11	4	4	4	4	10	10	4	4	F	F	Avoided	County	Fire Damage.
17	coast live oak ( <i>Quercus agrifolia</i> )	19	34.05240466	-118.8706635	22	18	14	14	12	12	14	16	16	F	F	Avoided	County	Fire Damage.
18	coast live oak ( <i>Quercus agrifolia</i> )	20,7	34.05245257	-118.8706307	25	18	18	14	14	14	16	16	16	F	F	Avoided	County	Fire Damage.

Tree #	Species	DBH (in.)	Latitude/Longitude		Ht. (ft)	Crown Measurements (in ft.)								Health	Structure	Impact Status	Regulated Status	Comments
						N	NW	W	SW	S	SE	E	NE					
19	coast live oak ( <i>Quercus agrifolia</i> )	12	34.05252766	-118.8706147	21	4	4	4	4	4	4	4	4	F	F	Avoided	County	Fire Damage.
20	coast live oak ( <i>Quercus agrifolia</i> )	26	34.05275952	-118.8704804	40	22	22	22	22	22	22	22	22	D	D	Avoided	County	Fire Damage.
21	coast live oak ( <i>Quercus agrifolia</i> )	9	34.0527986	-118.8703819	18	5	5	5	5	5	5	5	5	D	D	Avoided	County	Fire Damage.
22	coast live oak ( <i>Quercus agrifolia</i> )	15	34.05289845	-118.8703897	25	4	4	4	4	4	4	4	4	F	F	Avoided	County	Fire Damage.
23	coast live oak ( <i>Quercus agrifolia</i> )	13.5 ,12	34.05162328	-118.8714155	20	18	18	22	22	3	3	8	16	C	C	Avoided	City	Fire Damage.
24	coast live oak ( <i>Quercus agrifolia</i> )	15,6 ,6	34.05161186	-118.8714366	16	6	18	22	10	3	3	3	3	D	D	Avoided	City	Fire Damage.
25	coast live oak ( <i>Quercus agrifolia</i> )	9	34.05160254	-118.8714512	10	2	16	14	5	3	3	2	2	D	D	Avoided	City	Fire Damage.
26	coast live oak ( <i>Quercus agrifolia</i> )	11	34.05159062	-118.8714486	20	3	16	18	14	4	4	4	2	D	D	Avoided	City	Fire Damage.
27	coast live oak ( <i>Quercus agrifolia</i> )	16,1 1,11 ,12, 6	34.05159111	-118.8714155	20	18	20	8	10	8	18	18	18	C	C	Avoided	City	Fire Damage.
28	coast live oak ( <i>Quercus agrifolia</i> )	17,1 5	34.05158602	-118.8714311	25	5	5	18	22	22	20	2	20	C	C	Avoided	City	Fire Damage.

Tree #	Species	DBH (in.)	Latitude/Longitude		Ht. (ft)	Crown Measurements (in ft.)								Health	Structure	Impact Status	Regulated Status	Comments
						N	NW	W	SW	S	SE	E	NE					
29	coast live oak ( <i>Quercus agrifolia</i> )	18.5 ,20	34.05157067	-118.8715264	23	8	10	25	28	20	18	16	15	B	B	Avoided	City	

Appendix B  
**Oak and Native Tree  
Photographs**



**Photo 1:** View of Tree #1 – California scrub oak, facing northeast.



**Photo 2:** View of Tree #2 – western sycamore, facing west.



**Photo 3:** View of Tree #3 – coast live oak, facing west.



**Photo 4:** View of Tree #4 – coast live oak, facing northwest.



**Photo 5:** View of Tree #5 – coast live oak, facing west.



**Photo 6:** View of Tree #6 – coast live oak, facing northwest.



**Photo 7:** View of Tree #7 – coast live oak, facing west.



**Photo 8:** View of Tree #8 – coast live oak, facing south.



**Photo 9:** View of Tree #9 – coast live oak, facing west.



**Photo 10:** View of Tree #10 – coast live oak, mostly dead, facing west.



**Photo 11:** View of Tree #11 – coast live oak mostly dead, facing west.



**Photo 12:** View of Tree #12 – coast live oak, facing south.



**Photo 13:** View of Tree #13 – coast live oak, facing south.



**Photo 14:** View of Tree #14 – coast live oak, facing southwest.



**Photo 15:** View of Tree #15 – coast live oak, facing north.



**Photo 16:** View of Tree #16 – coast live oak, facing north.



**Photo 17:** View of Tree #17 – coast live oak, facing southwest.



**Photo 18:** View of Tree #18 – coast live oak, facing west.



**Photo 19:** View of Tree #19 – coast live oak, facing west.



**Photo 20:** View of Tree #20 – coast live oak, facing west.



**Photo 21:** View of Tree #21 – coast live oak, facing south.



**Photo 22:** View of Tree #22 – coast live oak, facing northwest.



**Photo 23:** View of Tree #23 – coast live oak, facing north.



**Photo 24:** View of Tree #24 – coast live oak, facing south.



**Photo 25:** View of Tree #s 24 through 26 – coast live oak, facing east.



**Photo 26:** View of Tree #25 – coast live oak, facing south.



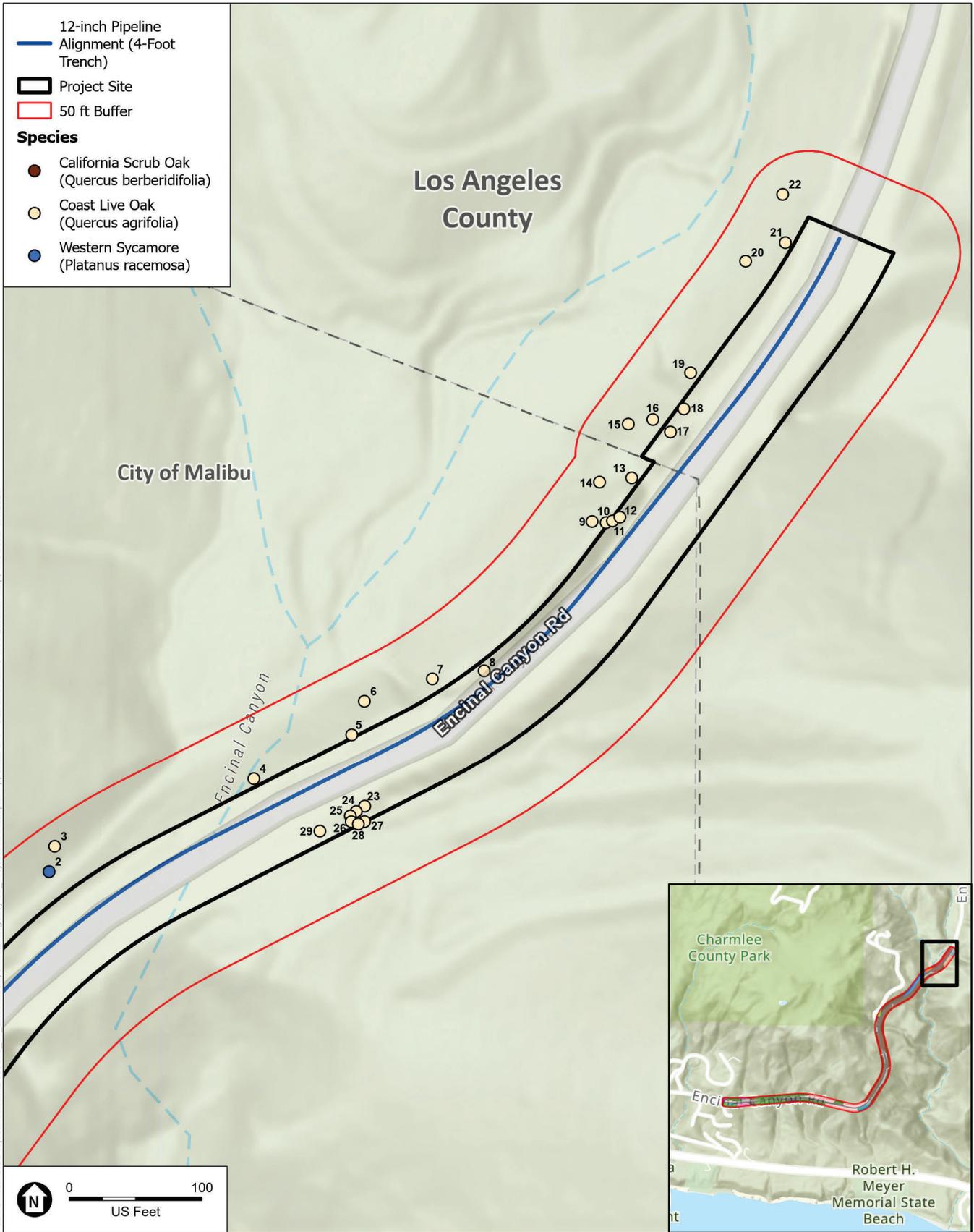
**Photo 27:** View of Tree #s 27 (right) and 28 (left) – coast live oak, facing east.



**Photo 28:** View of Tree #29 – coast live oak, facing north.

Appendix C  
**Oak and Native Tree Location  
Exhibit**



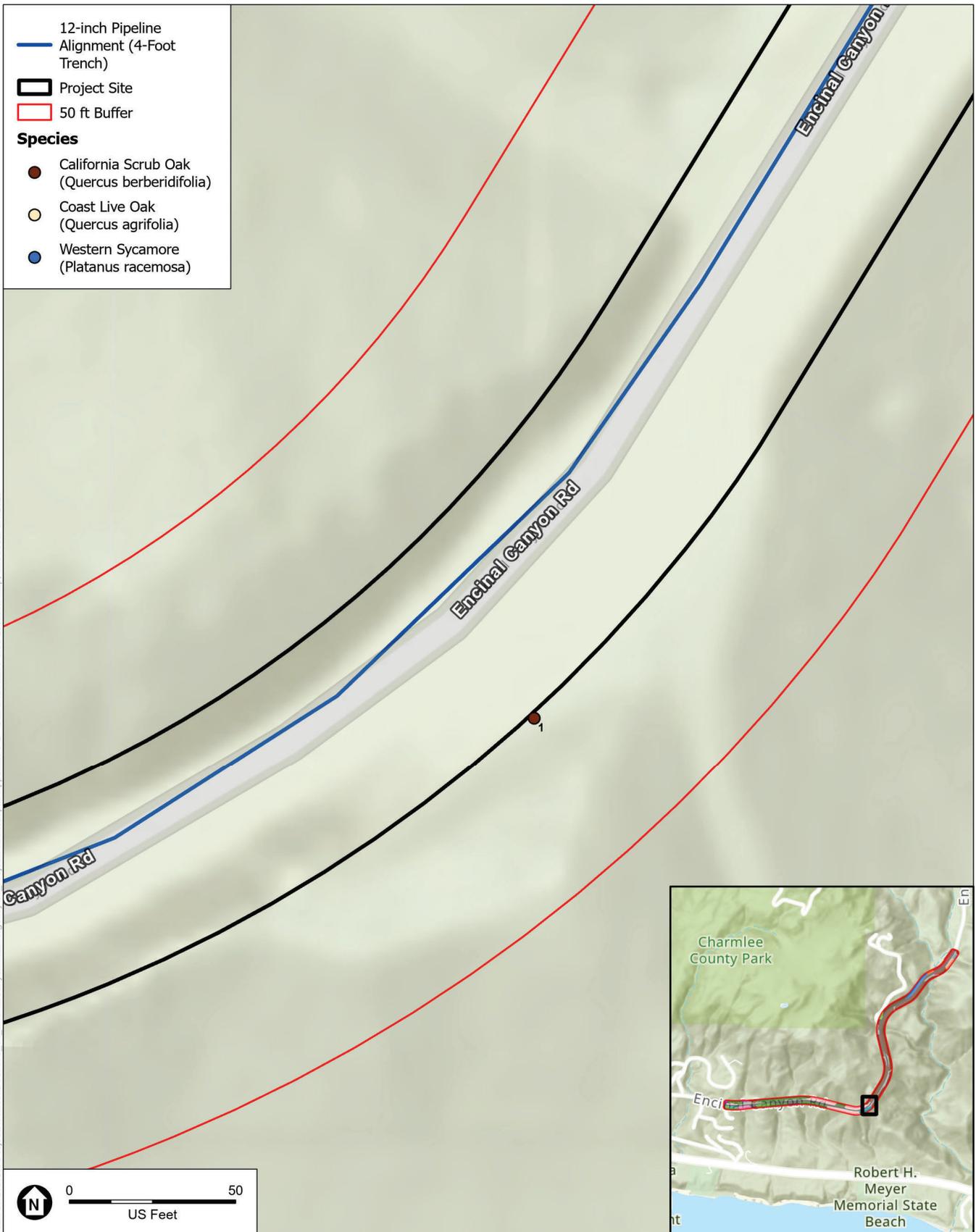


SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix C-1**  
Oak and Native Tree Location Map





SOURCE: ESA, 2023

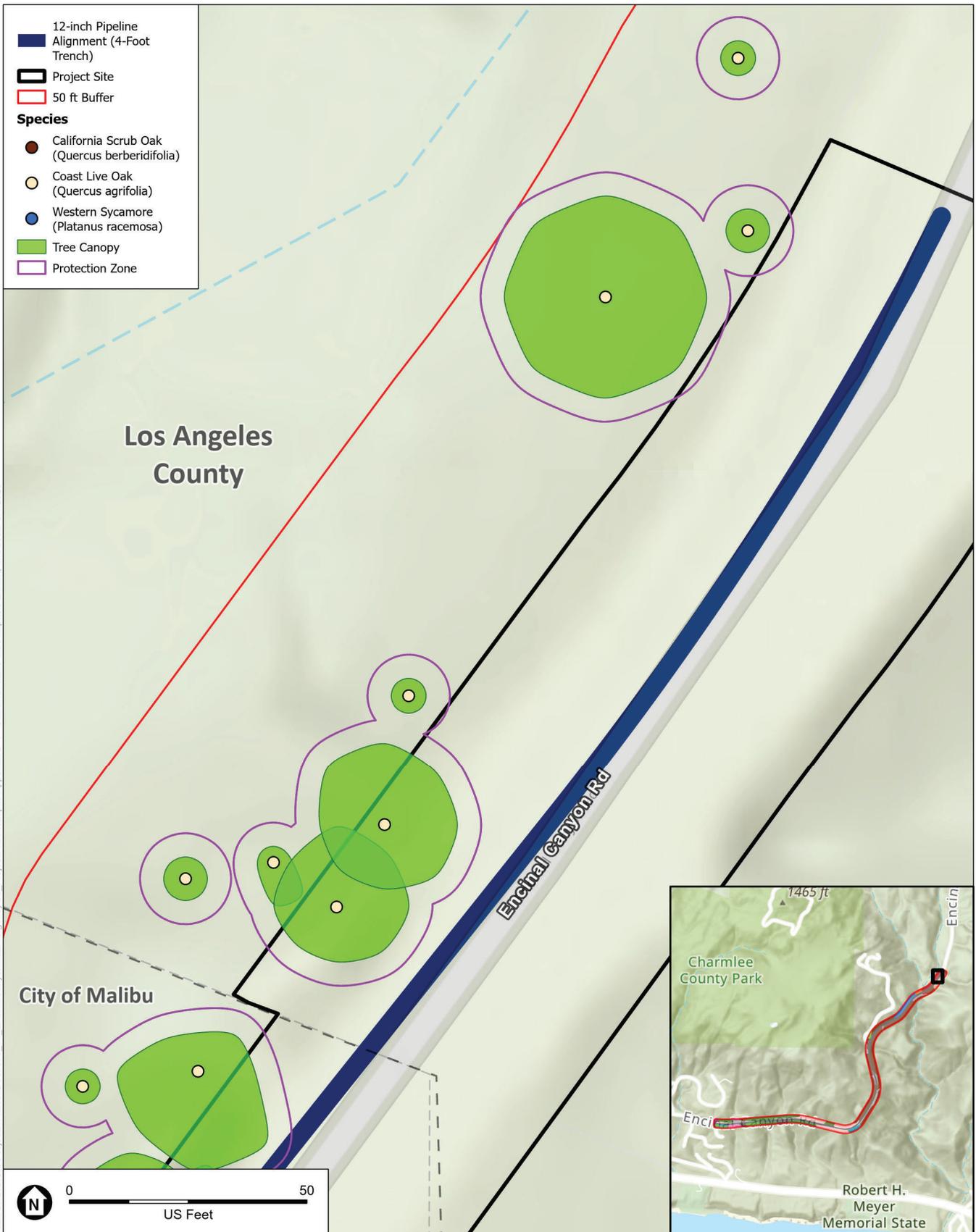
Encinal Canyon Road Emergency Interconnection

**Appendix C-2**  
Oak and Native Tree Location Map



Appendix D  
**Oak and Native Tree Impacts  
Exhibit**





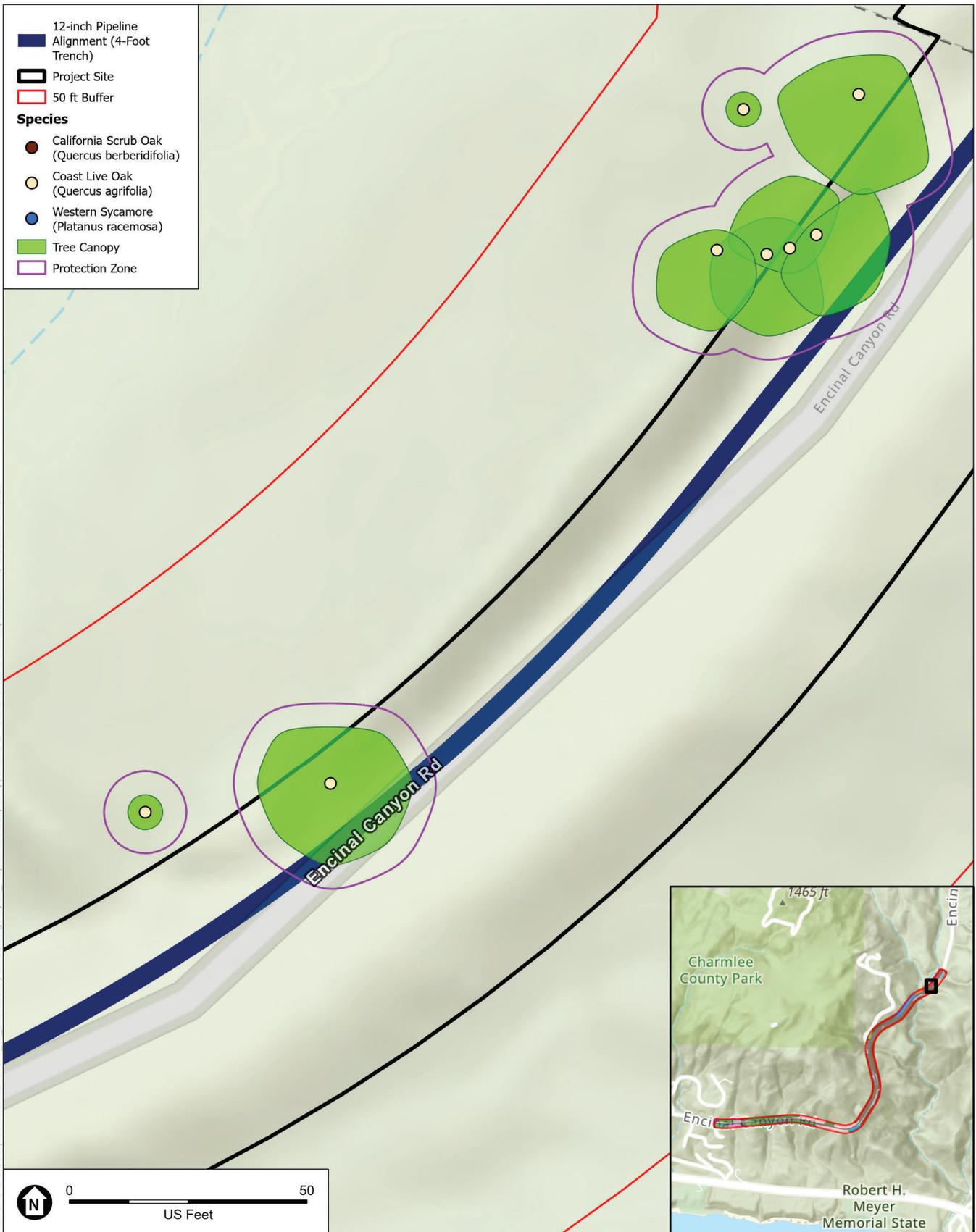
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SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix D-1**  
Oak and Native Tree Impacts Exhibit



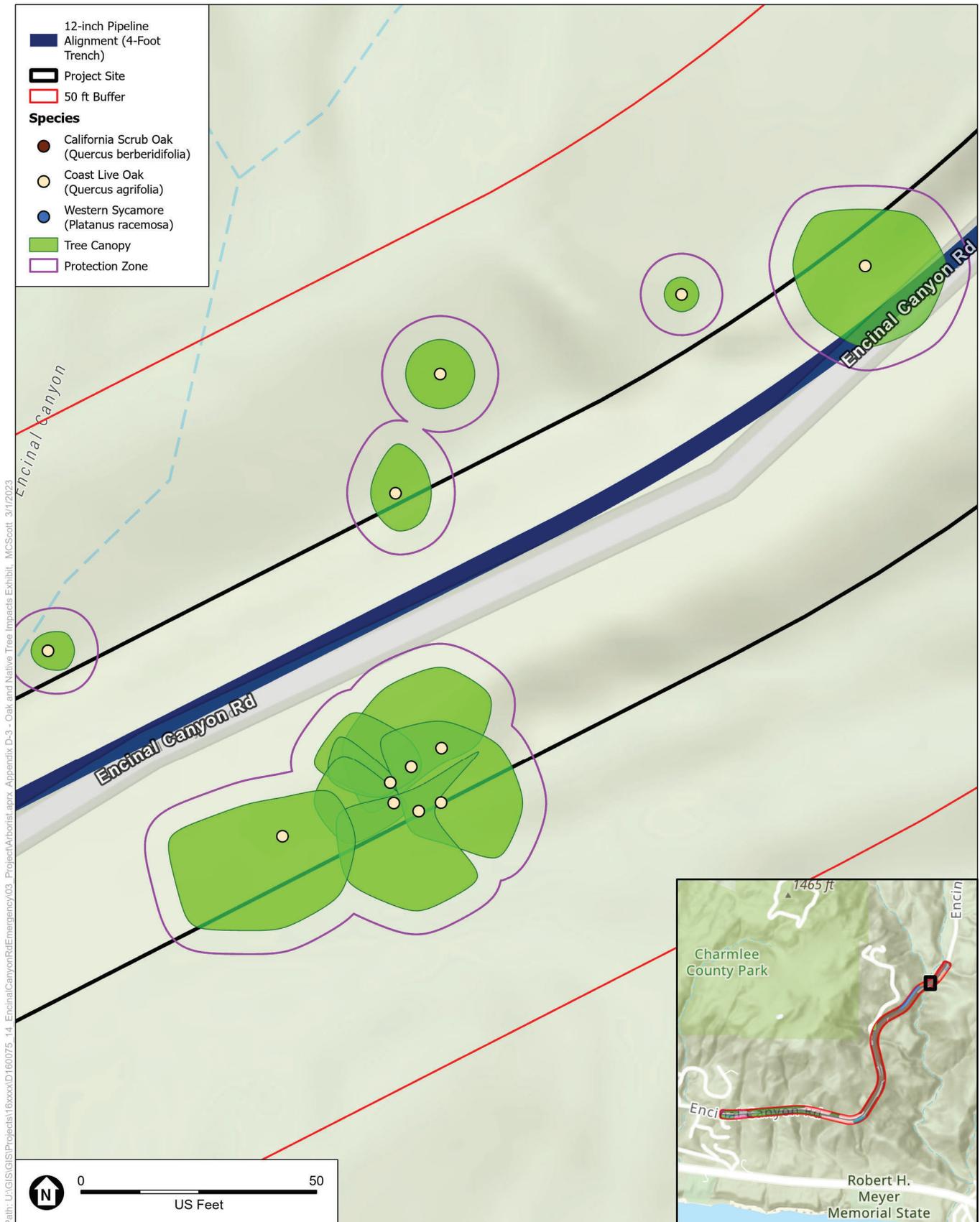


SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix D-2**  
Oak and Native Tree Impacts Exhibit



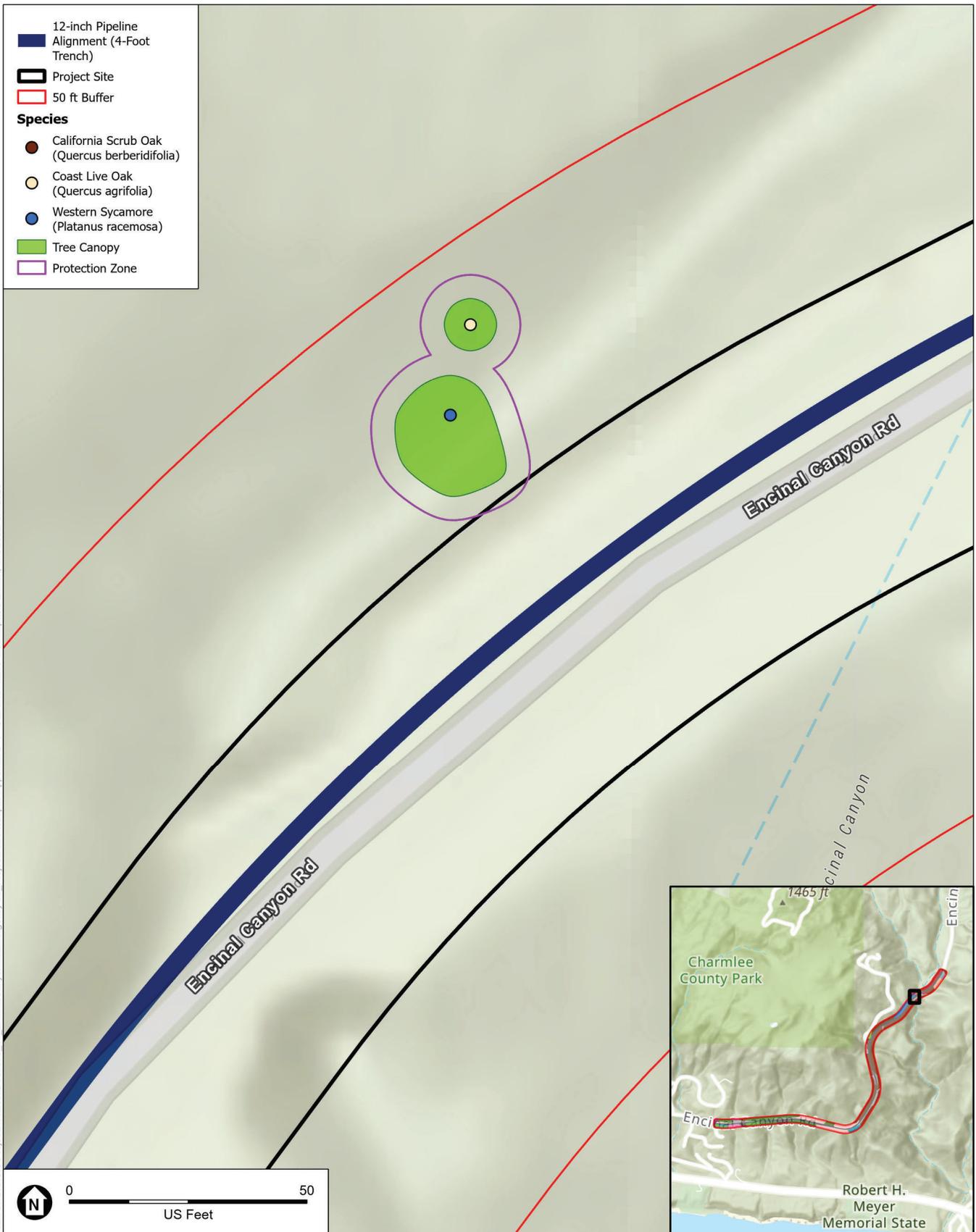


SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix D-3**  
Oak and Native Tree Impacts Exhibit



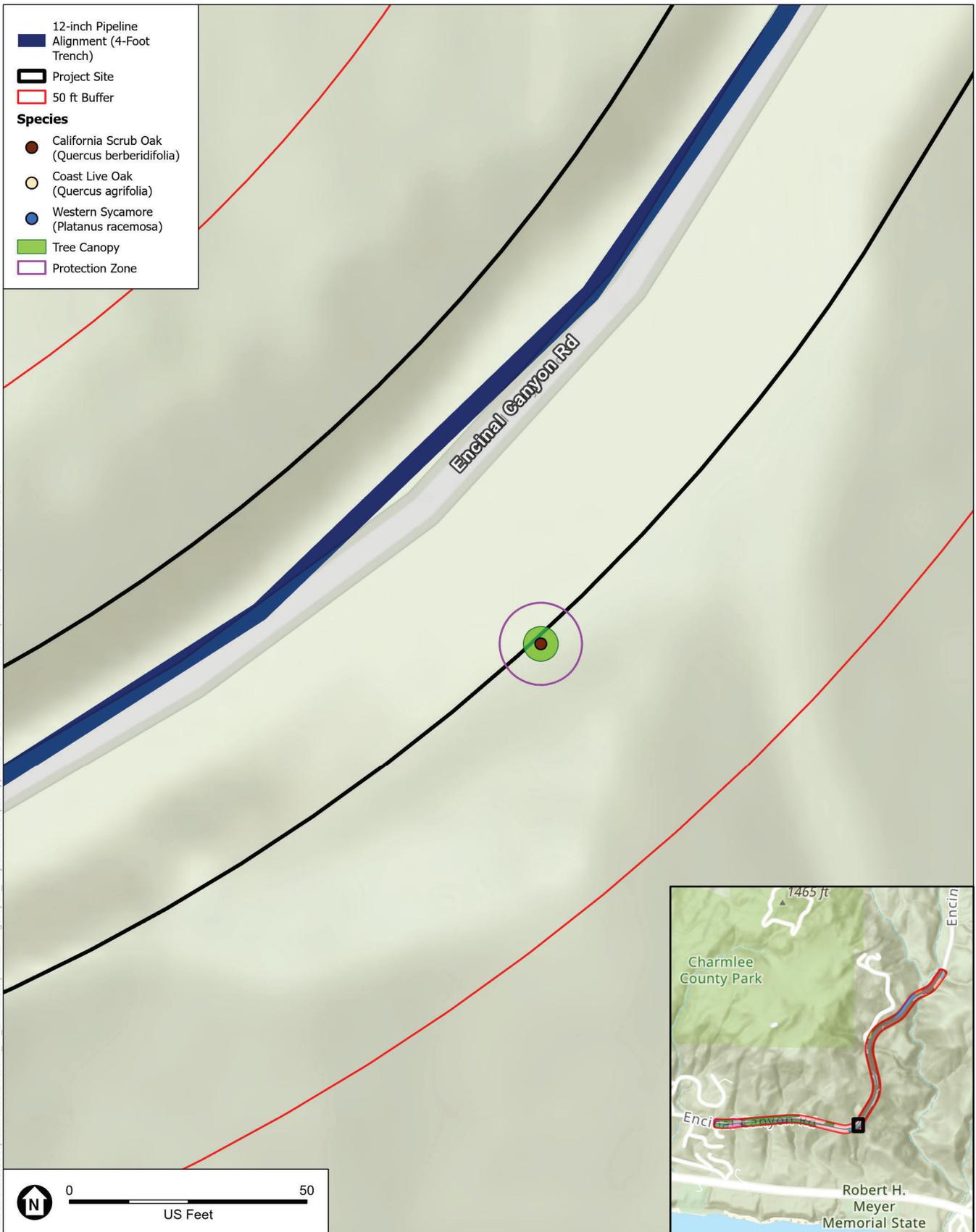


SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix D-4**  
Oak and Native Tree Impacts Exhibit





Path: U:\GIS\GIS\Projects\16xxxx\160075\_14\_EncinalCanyonRdEmergency\03\_Project\Arborist.aprx, Appendix D-5 - Oak and Native Tree Impacts Exhibit, MCS\Scott, 3/1/2023

SOURCE: ESA, 2023

Encinal Canyon Road Emergency Interconnection

**Appendix D-5**  
Oak and Native Tree Impacts Exhibit





DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS LOS ANGELES DISTRICT  
3636 NORTH CENTRAL AVENUE SUITE 900  
PHOENIX, AZ 85012-1939

April 3, 2024

SUBJECT: Determination of Need for Department of the Army Permit

Eduardo Maguino  
Los Angeles County Department of Public Works  
Waterworks District 29  
P.O. Box 1460  
Alhambra, California 91802

Dear Mr. Maguino:

I am responding to your request, dated March 26, 2024, for clarification whether a Department of the Army Permit is required for your proposed project, Encinal Canyon Road Emergency Connection (File No. SPL-2024-00256). The proposed project is located in an unnamed tributary to the Pacific Ocean, along Encinal Canyon Road in Malibu, Los Angeles County, California (Latitude 34.051190°, Longitude -118.872334°).

The Corps' evaluation process for determining if you need a permit is based on whether or not the proposed project is located within or contains a water of the United States, and whether or not the proposed project includes an activity potentially regulated under Section 10 of the Rivers and Harbors Act or Section 404 of the Clean Water Act. If both conditions are met, a permit would be required.

Based on the attached preliminary jurisdictional determination dated April 3, 2024, it appears the Encinal Canyon Road Emergency Connection project site contains waters of the United States pursuant to 33 CFR Part 325.9.

However, I have determined the proposed work would not involve a discharge of dredged or fill material and therefore, would not be regulated under Section 404 of the Clean Water Act if the activity is performed in the manner described in your application. Notwithstanding this determination, your proposed project may be regulated under other Federal, State, and local laws.

If you have any questions, please contact me at 602-230-6954 or via email at alexandra.ryan@usace.army.mil. Thank you for participating in the Regulatory Program. Please help me to evaluate and improve the regulatory experience for others by completing the customer survey form at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in cursive script that reads "Alexandra Ryan".

Alexandra Ryan  
Project Manager  
Regulatory Division

Enclosures

Copies furnished:  
USFWS  
California DFW  
RWQCB

U.S. Army Corps of Engineers (USACE)  
**PRELIMINARY JURISDICTIONAL DETERMINATION (PJD)**

**Form Approved -**  
**OMB No. 0710-0024**  
**Expires 2024-04-30**

For use of this form, see Sec 404 CWA, Sec 10 RHA, Sec 103 MPRSA; the proponent agency is CECW-COR.

**DATA REQUIRED BY THE PRIVACY ACT OF 1974**

**Authority** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

**Principal Purpose** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the review area that may be subject to federal jurisdiction under the regulatory authorities referenced above.

**Routine Uses** This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice or FOIA request as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in any resulting jurisdictional determination (JD), which may be made available to the public on the District's website and/or on the Headquarters USACE website.

**Disclosure** Submission of requested information is voluntary; however, if information is not provided, the request for a JD cannot be evaluated nor can a PJD be issued.

**The Agency Disclosure Notice (ADN)**

The public reporting burden for this collection of information, 0710-0024, is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at [whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil](mailto:whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

**SECTION I - BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR PJD: 2024-04-03

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:  
 Eduardo Maguino, LA County Public Works, Waterworks Division  
 P.O. Box 1460, Alhambra, CA 91802

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:  
 Los Angeles District  
 Encinal Canyon Road Emergency Connection, SPL-2024-00256

D. PROJECT LOCATION AND BACKGROUND INFORMATION:  
 (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: California County/Parish/Borough: Los Angeles City: Malibu

Center coordinates of site (lat/long in degree decimal format): Latitude: 34.051183 ° Longitude: -118.872359 °

Universal Transverse Mercator: \_\_\_\_\_

Name of nearest waterbody: unnamed tributary to Pacific Ocean

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: 2024-04-03

Field Determination

Date(s): \_\_\_\_\_

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site Number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Stream 1	34.051183	-118.872359	480 linear feet	non-wetland water	Section 404

Site Number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Stream 2	34.052282	-118.870337	50 linear feet	non-wetland water	Section 404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD or no JD whatsoever, which do not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the USACE has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD or reliance on no JD whatsoever; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of USACE permit authorization based on a PJD or no JD whatsoever constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the USACE will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

F. SUPPORTING DATA. Data reviewed for PJD (check all that apply)  
 Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
 Map: Figure 6 - Sheet 6, USACE/RWQCB/CCC Potential Jurisdictional Resources, prepared by ICF, undated
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
- Office concurs with data sheets/delineation report.
- Office does not concur with data sheets/delineation report.  
 Rationale: \_\_\_\_\_
- Data sheets prepared by the USACE:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:

- USGS NHD data.
- USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name:

USDA Natural Resources Conservation Service Soil Survey.

Citation: \_\_\_\_\_

National Wetlands Inventory map(s).

Cite Name: \_\_\_\_\_

State/Local Wetland Inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: \_\_\_\_\_ . (National Geodectic Vertical Datum of 1929)

Photographs:  Aerial (*Name & Date*): \_\_\_\_\_  
 or  Other (*Name & Date*): \_\_\_\_\_

Previous determination(s). File no. and date of response letter:

Other information (*please specify*):

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the USACE and should not be relied upon for later jurisdictional determinations.**

Name of Regulatory Staff Member Completing PJD Alexandra Ryan	Date 2024-04-03	Signature of Regulatory Staff Member Completing PJD <i>Alexandra Ryan</i> Date: 2024.04.03 13:05:40 -07'00'
Name of Person Requesting PJD	Date	Signature of Person Requesting PJD ( <i>REQUIRED, unless obtaining the Signature is Impracticable</i> )

<sup>1</sup> Districts may establish timeframes for requester to return signed PJD forms. If the requester does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

**LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 29  
EMERGENCY SOURCE OF WATER SUPPLY CONNECTION  
(LAS VIRGENES CONNECTION)**

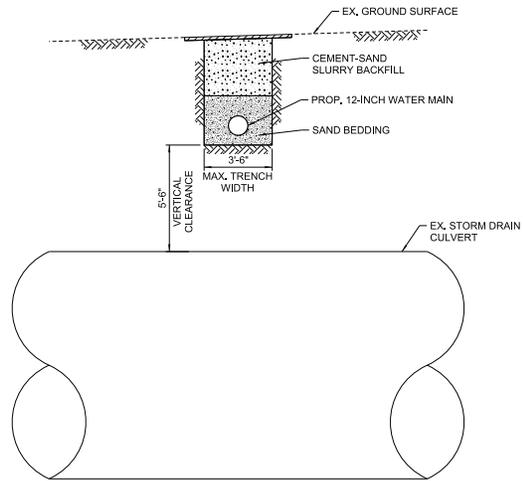




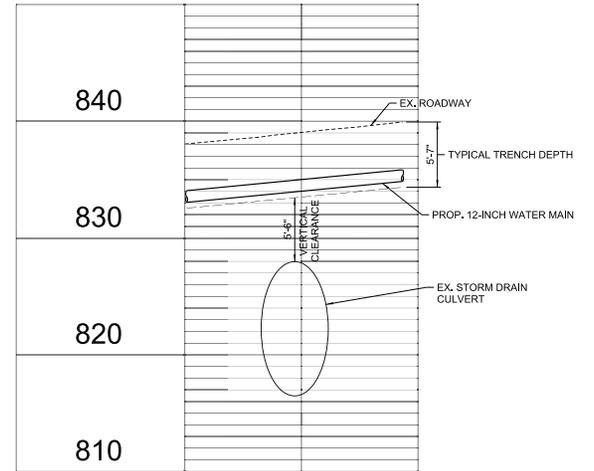
M:\DC\TRRS\GIS\Projects - LADPW\040489 - 16 LAC Waterworks - Dist\29\maadoc\B\04\01 - Results\Fis\_Emergency\_WaterSupply\_USACE\_ID\_11x17\_norinal.mxd Date: 2/4/2019 2:49:01



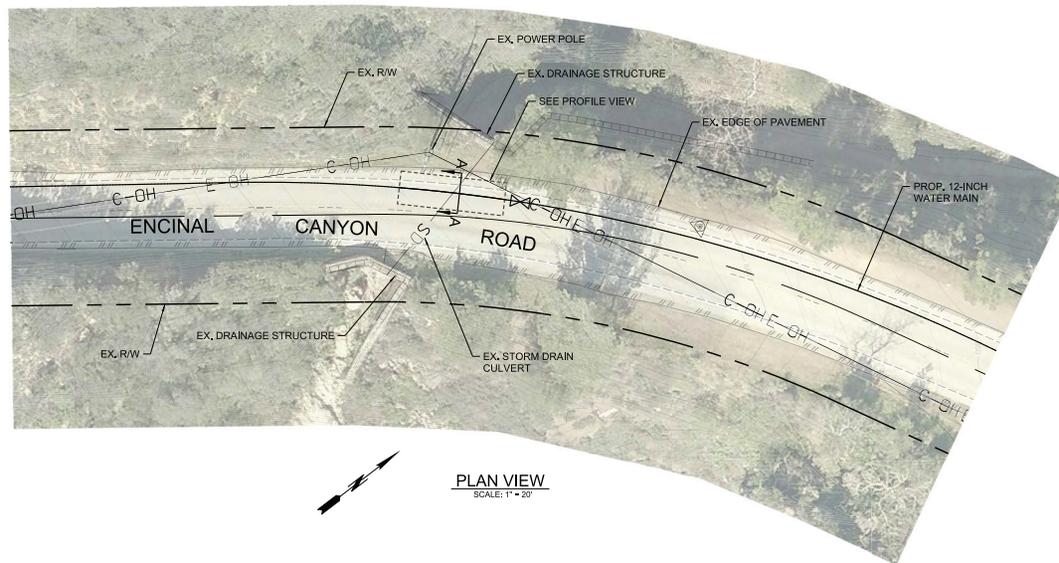
Figure 6 - Sheet 6  
 USACE/RWQCB/CCC Potential Jurisdictional Resources  
 Los Angeles County Waterworks District No. 29 - Priority Capital Deficiencies Improvements



**SECTION A-A**  
SCALE: 1" = 3'



**PROFILE VIEW**  
HORIZ. SCALE: 1" = 10'  
VERT. SCALE: 1" = 5'



**PLAN VIEW**  
SCALE: 1" = 20'

DRAWN BY: S. MACULAVI

LOS ANGELES COUNTY PUBLIC WORKS WATERWORKS DISTRICT NO. 29, MALIBU			
<b>ENCINAL CANYON RD EMERGENCY INTERCONNECTION STORM DRAIN CULVERT CROSSING EXHIBIT</b>			
PROJ ID	WWD2900082	PCA	Y2523234
SPEC	WWD 29-303	SHEET	1 OF 1

## Tyler Eaton

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**From:** David.Lin <David.Lin@wildlife.ca.gov>  
**Sent:** Monday, April 15, 2024 4:03 PM  
**To:** Eduardo Maguino  
**Cc:** Barrera, Baron@Wildlife; Lanh Duong  
**Subject:** RE: Encinal Canyon Emergency Connection Project

**CAUTION:** External Email. Proceed Responsibly.

+ Baron Barrera (CDFW)

Good afternoon Eddie,

CDFW has reviewed your request in conjunction with the supplemental materials you provided. For the subject Encinal Canyon Road Emergency Connection Project, the relevant permitting instrument from CDFW might be a Lake and Streambed Alteration Agreement pursuant to Fish and Game Code section 1602.

Fish and Game Code section 1602 requires any person, state or local governmental agency, or public utility to notify CDFW prior to beginning any activity that may do one or more of the following:

- Divert or obstruct the natural flow of any river, stream, or lake;
- Change the bed, channel, or bank of any river, stream, or lake;
- Use material from any river, stream, or lake; or
- Deposit or dispose of material into any river, stream, or lake.

Please note that "any river, stream, or lake" includes those that are dry for periods of time as well as those that flow year round. If you are not certain a particular activity requires notification, CDFW recommends you notify. CDFW requires a Lake and Streambed Alteration (LSA) Agreement when a project activity may substantially adversely affect fish and wildlife resources.

For more information, please see the CDFW LSA Program website: <https://wildlife.ca.gov/Conservation/Environmental-Review/LSA>

Based on the project information provided by your team, CDFW concurs that no Notification of Lake and Streambed Alteration appears to be required. We encourage your team to implement mitigation measures described in your CEQA document and as recommended by earlier CEQA comment letters provided by CDFW.

Please contact me if you have any questions.

David Lin, Ph.D.  
Senior Environmental Scientist (Specialist)  
California Department of Fish and Wildlife  
South Coast Region  
3030 Old Ranch Parkway, Suite 400  
Seal Beach, CA 90740  
[David.Lin@wildlife.ca.gov](mailto:David.Lin@wildlife.ca.gov)  
Phone: (562) 619-0509

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**From:** Eduardo Maguino <EMAGUINO@dpw.lacounty.gov>  
**Sent:** Friday, March 22, 2024 2:39 PM  
**To:** Lin, David@Wildlife <David.Lin@Wildlife.ca.gov>  
**Subject:** RE: Encinal Canyon Emergency Connection Project

**WARNING:** This message is from an external source. Verify the sender and exercise caution when clicking links or opening attachments.

Good afternoon David – to comply with City of Malibu LCP, City is requesting concurrence from CDFW subject project will not affect/impact jurisdictional waters. Please review NED request form and attachments.

The Encinal Canyon Road Emergency Connection Project (formerly called the Emergency Source of Water Supply Connection - Las Virgenes Connection) is located in City of Malibu along 4520 Encinal Canyon Road to 3629 Encinal Canyon Road (see attachment 1).

The project includes the construction of approximately 7,200 feet of new 12-inch diameter emergency-use steel transmission waterline and pressure regulating stations that would connect to the Las Virgenes Municipal Water District. It would provide a mutual water source capability for the region in case of emergencies if the 30-inch-diameter main line were interrupted. All proposed work would be performed within the public-road right of way. Construction staging would occur in close proximity to the improvement site. Construction activities would include ground-breaking activities (i.e., concrete/asphalt sawing and excavation).

Stream 1 is an intermittent stream, subject to USACE, RWQCB, CCC, and CDFW jurisdiction, that occurs within the project. It flows northeast to southwest parallel to Encinal Canyon Road until it turns to cross under the road via a large underground culvert and flows southeast (see attachment 2)

The proposed project will not impact jurisdictional waters. The new water main will cross over on top of the underground culvert with ~5.5 feet vertical clearance and placed within the soils (see attachment 3).

Please let me know if you have any questions. Thank you

Eddie Maguino  
Civil Engineer  
Los Angeles County Public Works  
(626) 213-8644