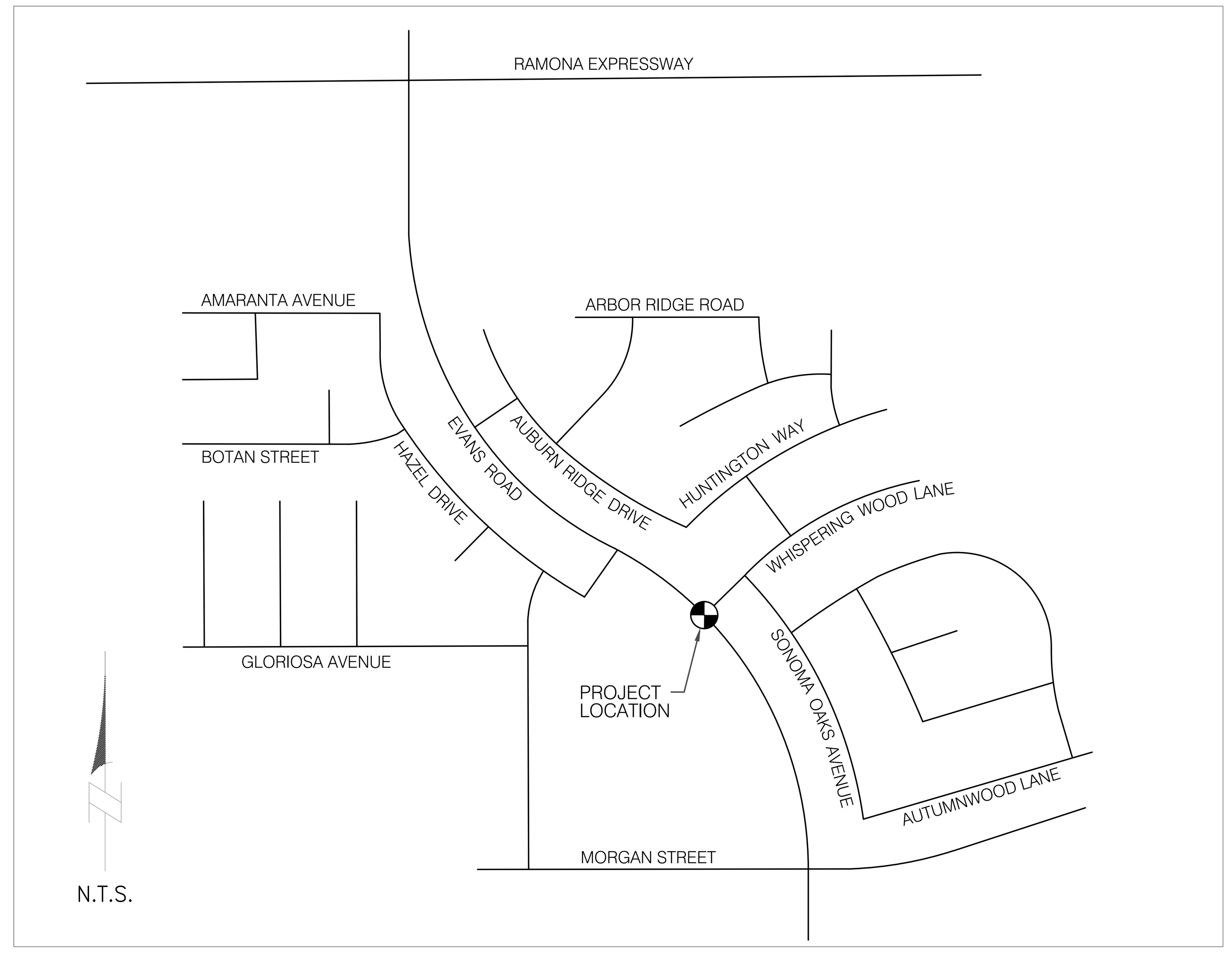
CITY OF PERRIS
TRAFFIC SIGNAL PLAN
EVANS ROAD AT WHISPERING WOOD LANE

GENERAL TRAFFIC SIGNAL NOTES:

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS (2023), CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014, REVISION 8), AND THESE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, (800) 227-2600, AND ALL CONCERNED UTILITY COMPANIES AT LEAST TWO WORKING DAYS IN ADVANCE OF EXCAVATION. LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL DAMAGES OCCURRED DUE TO FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. HAND DIG AS NEEDED OR AS DIRECTED BY THE ENGINEER UNTIL CLEAR OF OBSTRUCTIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON CITY RIGHT-OF-WAY AFFECTED BY THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL KEEP CITY RIGHT-OF-WAY CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. METHOD OF STREET CLEANING SHALL BE DRY SWEEPING OF ALL PAVED AREAS. THERE SHALL BE NO STOCKPILING OF CONSTRUCTION MATERIALS WITHIN THE CITY RIGHT-OF-WAY WITHOUT THE PERMISSION OF THE ENGINEER.
4. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REMOVED AND REPLACED AS APPROVED BY THE CITY ENGINEER. PAVEMENT RESTORATIONS SHALL BE PER CITY OF PERRIS STANDARDS.
5. SEE CALTRANS STANDARD PLAN ES-1A, ES-1B, AND ES-1C FOR SYMBOLS AND ABBREVIATION LEGENDS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC SIGNAL EQUIPMENT, SIGNS, AND STRIPING IN ACCORDANCE WITH THE PLANS AND SPECIAL PROVISIONS. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE UNLESS OTHERWISE NOTED.
7. CONTROLLER CABINET AND SERVICE CABINET SHALL BE PLACED AT A MINIMUM OF 15 FEET APART.
8. ELECTRICAL CONDUIT SHALL BE PLACED AT A MINIMUM OF 2 FEET FROM TELEPHONE CONDUIT.
9. ALL PULL BOXES SIZE SHALL BE NO. 6 UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. PULL BOXES IN UNIMPROVED AREAS NOT PROTECTED BY CURB AND GUTTER SHALL BE TRAFFIC BEARING TYPE. MAXIMUM SPACING BETWEEN PULL BOXES SHALL BE 200 FEET.
10. ALL CONDUITS SHALL BE 2-INCH TYPE 3 SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. ALL CONDUITS PLACED UNDER PAVING SHALL BE INSTALLED WITHOUT OPEN CUTTING.
11. VIDEO DETECTION SYSTEM TO BE ITERIS VANTAGE VECTOR HYBRID DETECTION. THE VIDEO DETECTION SYSTEM SHALL BE INSTALLED BY A FACTORY-CERTIFIED SUPPLIER. THE VIDEO DETECTION SYSTEM SHALL BE INSTALLED AS RECOMMENDED BY THE SUPPLIER AND THE DOCUMENTED INSTALLATION MATERIALS PROVIDED BY THE SUPPLIER. DETECTION ZONES SHALL BE CREATED FOR THE LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
12. ALL CABLES AND CONDUCTORS SHALL BE CONTINUOUS WITH A MINIMUM OF 6 FEET OF SLACK INSIDE EACH PULL BOX UNLESS OTHERWISE NOTED.
13. ALL COMBINATION PEDESTRIAN AND VEHICLE SIGNAL INDICATIONS INCLUDING PV HEADS SHALL UTILIZE LIGHT EMITTING DIODE (L.E.D.) TECHNOLOGY. PEDESTRIAN SIGNAL HEADS SHALL BE THE COUNTDOWN TYPE.
14. VEHICLE SIGNAL BACKPLATES SHALL INCLUDE A 2" WIDE YELLOW RETROREFLECTIVE TAPE BORDER.
15. THE CONTRACTOR SHALL POT-HOLE BEFORE TRAFFIC SIGNAL POLES ARE ORDERED.
16. A TEMPORARY TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER PRIOR TO THE START OF ANY WORK.
17. THE CONTRACTOR IS REQUIRED TO SUBMIT "AS-BUILT" PLANS TO THE ENGINEER PRIOR TO THE CITY ACCEPTING THE INSTALLATIONS. THE PLANS SHALL INDICATE ALL DEVIATIONS FROM THE CONTRACT PLANS, SUCH AS LOCATION OF POLES, PULL BOXES AND RUNS, DEPTHS OF CONDUIT, NUMBER OF CONDUCTORS AND OTHER APPURTENANT WORK FOR FUTURE REFERENCE.
18. THE CONTRACTOR SHALL ALSO FURNISH CABINET INVENTORY SHEETS. THESE SHEETS SHALL INCLUDE SERIAL AND MODEL NUMBERS OF ALL EQUIPMENT CONTAINED IN THE CABINET.
19. THE CONTRACTOR SHALL CREATE THE INITIAL SIGNAL SETTINGS AND TIMINGS FOR THE PROPOSED TRAFFIC SIGNAL CONTROLLER OPERATION. A COPY OF THE TIMING SHEET SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO ACCEPTANCE.



VICINITY MAP

GENERAL SIGNING AND STRIPING NOTES:

1. ALL SIGNING AND STRIPING SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA MUTCD AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. ALL REQUIRED STRIPING, PAVEMENT MARKERS AND SIGNAGE SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY THE CITY ENGINEER.
3. ALL STRIPING AND PAVEMENT MARKING REMOVALS SHOWN ON THE PLAN SHALL BE REMOVED BY WET SANDBLASTING AS DIRECTED BY THE ENGINEER.
4. THE LOCATION OF ALL SIGNS SHALL BE PER APPROVED PLAN, AND AS DIRECTED BY THE CITY ENGINEER.
5. ALL LANE LINES, PAVEMENT LEGENDS, AND CROSSWALKS SHALL BE APPLIED WITH ALCHYD THERMOPLASTIC.
6. SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED ON THE PLAN. SALVAGED SIGNS SHALL BE DELIVERED TO THE CITY OF PERRIS MAINTENANCE YARD AS DIRECTED BY THE PUBLIC WORKS INSPECTOR ASSIGNED.
7. EXISTING ADJACENT STRIPING WITHIN THE VICINITY OF THE INTERSECTION THAT ARE DULL SHALL BE REFRESHED AS APPROVED BY THE CITY ENGINEER.

INDEX OF SHEETS

NOTICE TO CONTRACTORS

PURSUANT TO ASSEMBLY BILL 3019, NO EXCAVATION PERMIT IS VALID UNLESS THE FOLLOWING IS PERFORMED:

1. UNDERGROUND SERVICE ALERT HAS BEEN CONTACTED AND HAS PROVIDED INQUIRY I.D.# ______
2. THE UNDERGROUND AGREES TO CONTACT AND OBTAIN AN INQUIRY I.D.# FROM UNDERGROUND SERVICE ALERT (800) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.

SIGNED ______ DATE ______

DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

DATE	NO.	REVISION DESCRIPTION	APPR.	DATE

DRAWN BY: MR
DATE: –
DESIGNED BY: JN
DATE: –
CHECKED BY: RK
DATE: –
RECOMMENDED BY: –
DATE: –

SEAL
REGISTERED PROFESSIONAL ENGINEER
ROBERT KAHN
No. 20285
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

RK ENGINEERING GROUP INC.
TRAFFIC ENGINEERING · PARKING STUDIES
TRANSPORTATION PLANNING · ENVIRONMENTAL ENGINEERING
www.rkengineer.com
NEWPORT BEACH
1401 Dove Street, Suite 540
Newport Beach, CA 92660
P: 949.474.0809

ROBERT KAHN R.C.E. No. 20285 Date: 01/10/25 Exp. 9/30/25

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

CITY OF PERRIS
REVIEWED BY:
J. Pourkazemi
CITY ENGINEER Date 01/14/2025

SERVICE ADDRESS: 3560 & 3562 EVANS ROAD
SIGNAL ENERGIZED: –
SG# –
SCALE: H: N/A V: N/A

CITY OF PERRIS
TITLE SHEET AND SPECIAL PROVISIONS
TRAFFIC SIGNAL PLAN

SHEET NO. 1 OF 2 SHTS

FOR: – W.O. – CITY FILE NO. CIP #T-036

O:\0350-0399\03522407 – D\03522407_ACAD

Date & Time Plotted: 1/10/2025 1:48 PM Plotted By: mramon File Name: 03522407_Evans Rd At Whispering Wood_TS.dwg

POLE AND EQUIPMENT SCHEDULE ■

NO.	STANDARDS				VEH. SIGNAL MTG.****		PED. SIG.	P.P.B.		POLE LOC.		LED	STANDARD MOUNTED R.S.N.S.***	COMMENTS
	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	ø	QUAD	A	B	Luminare		
(A)	17–3–100	30'	15'	12'	MAS	SV–2–T	SP–1–T	8	1	*	4'	111W**	Evans Rd	–
(B)	19–3–100	30'	30'	12'	MAS	SV–2–T	SP–1–T	8	3	13'	5'	111W	Whispering Wood Ln	–
(C)	1A	10'	–	–	–	TV–1–T	SP–1–T	2	4	13'	4'	–	–	–
(D)	PPB–POST	3'10"	–	–	–	–	–	2	4	10.5'	4'	–	–	–
(E)	15TS	30'	–	15'	–	SV–2–T	SP–1–T	–	–	14'	4'	111W	–	–
(F)	29–5–100	30'	50'	15'	2–MAS	SV–2–T	–	–	–	*	6'	111W	Whispering Wood Ln	F=20'

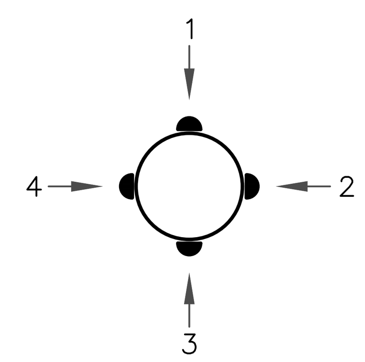
■ EXACT POLE LOCATIONS DETERMINED BY FIELD ENGINEER; POTHOLE POLE FOUNDATIONS PRIOR TO ORDERING POLES.
ALL EQUIPMENT IS NEW.
* AS INDICATED ON PLAN.
** ROTATED 90°.
*** STREET NAME SIGNS MOUNTED ON AUXILIARY MAST ARM.
**** INSTALL 2" WIDE YELLOW RETROREFLECTIVE TAPE BORDER TO ALL SIGNAL HEADS.

CONSTRUCTION NOTES (THIS SHEET):

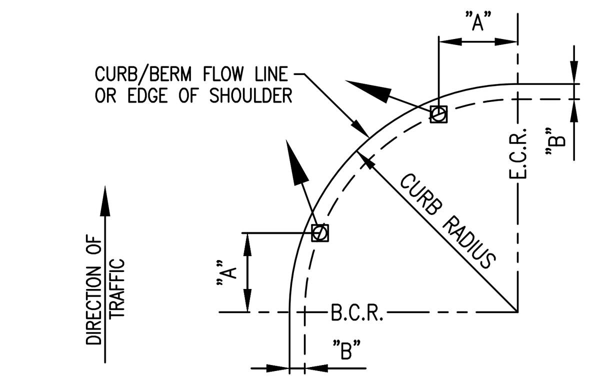
1. FURNISH AND INSTALL TYPE 2070E CONTROLLER TO ACCOMMODATE OPERATION PER PHASE DIAGRAM IN A TYPE 332L CABINET, PER CALTRANS STD PLAN ES–3C. FURNISH AND INSTALL BATTERY BACK–UP SYSTEM PER RIVERSIDE COUNTY STANDARD.
2. FURNISH AND INSTALL 3"C WITH PULLROPE PER S.C.E REQUIREMENTS. CONTACT S.C.E SERVICE PLANNER 48 HOURS BEFORE BEGINNING WORK.
3. FURNISH AND INSTALL TYPE III–CF 120V/240V DUAL METER SERVICE EQUIPMENT ENCLOSURE. SIGNAL CONNECTED TO ONE METER AND SAFETY LIGHTING TO BE CONNECTED TO SECOND METER. FURNISH AND INSTALL TYPE V P.E..C. IN SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR TO PROVIDE FOR ALL REQUIRED ELECTRIC SERVICE HOOK–UPS.
4. FURNISH AND INSTALL GTT OPTICOM DETECTOR MODEL 721 WITH GTT MODEL 138 DETECTOR CABLE.
5. FURNISH AND INSTALL SIGN ON MAST ARM AS INDICATED ON THIS PLAN, PER CALTRANS STD PLAN ES–7N, DETAIL "U".
6. FURNISH AND INSTALL ITERIS VANTAGE VECTOR HYBRID VIDEO DETECTION CAMERA ON 6' EXTENSION POLE ON MAST ARM PER MANUFACTURER AND CITY STANDARDS.
7. INSTALL HIGH–MOUNTED SIGNAL HEAD AT A HEIGHT OF 17'.
8. FURNISH AND INSTALL #6 PULL BOX.
9. INSTALL TRAFFIC SIGN PER CALTRANS STANDARDS, AS INDICATED ON THIS PLAN. REMOVE CONFLICTING SIGNAGE.
10. INSTALL YELLOW CONTINENTAL CROSSWALK. REMOVE CONFLICTING STRIPING.
11. INSTALL PAVEMENT MARKING AS INDICATED. REMOVE CONFLICTING STRIPING.
12. INSTALL TRUNCATED DOMES.
13. REMOVE AND SALVAGE EXISTING STREET LIGHT AND EQUIPMENT. REMOVE NEIGHBORING TREE TO PREVENT CONFLICTS WITH PROPOSED TRAFFIC SIGNAL.
14. FURNISH AND INSTALL #6T PULL BOX.
15. PAINT MEDIAN NOSE YELLOW.
16. INSTALL DOUBLE YELLOW CENTERLINE STRIPING WITH REFLECTORS (DETAIL 22).
17. FURNISH AND INSTALL SIGN ON TRAFFIC SIGNAL POLE AS INDICATED ON THIS PLAN.
18. INSTALL 12" YELLOW THERMOPLASTIC LIMIT LINE 5' BEHIND CROSSWALK.
19. INSTALL 8" WHITE CHANNELIZING LINE WITH REFLECTORS (DETAIL 38).
20. REMOVE EXISTING PEDESTRIAN RAMP. REPLACE WITH TYPE A–8 CURB & GUTTER PER RIVERSIDE COUNTY STD. 201 AND SOIL, GRADE AS REQUIRED.
21. FURNISH AND INSTALL ITERIS VANTAGE VECTOR HYBRID VIDEO DETECTION CAMERA ON TRAFFIC SIGNAL MAST ARM PER MANUFACTURER AND CITY STANDARDS.

RS REMOVE AND SALVAGE SIGN AND POST.

XX SANDBLAST CONFLICTING STRIPING AND REMOVE CONFLICTING REFLECTIVE PAVEMENT MARKERS.

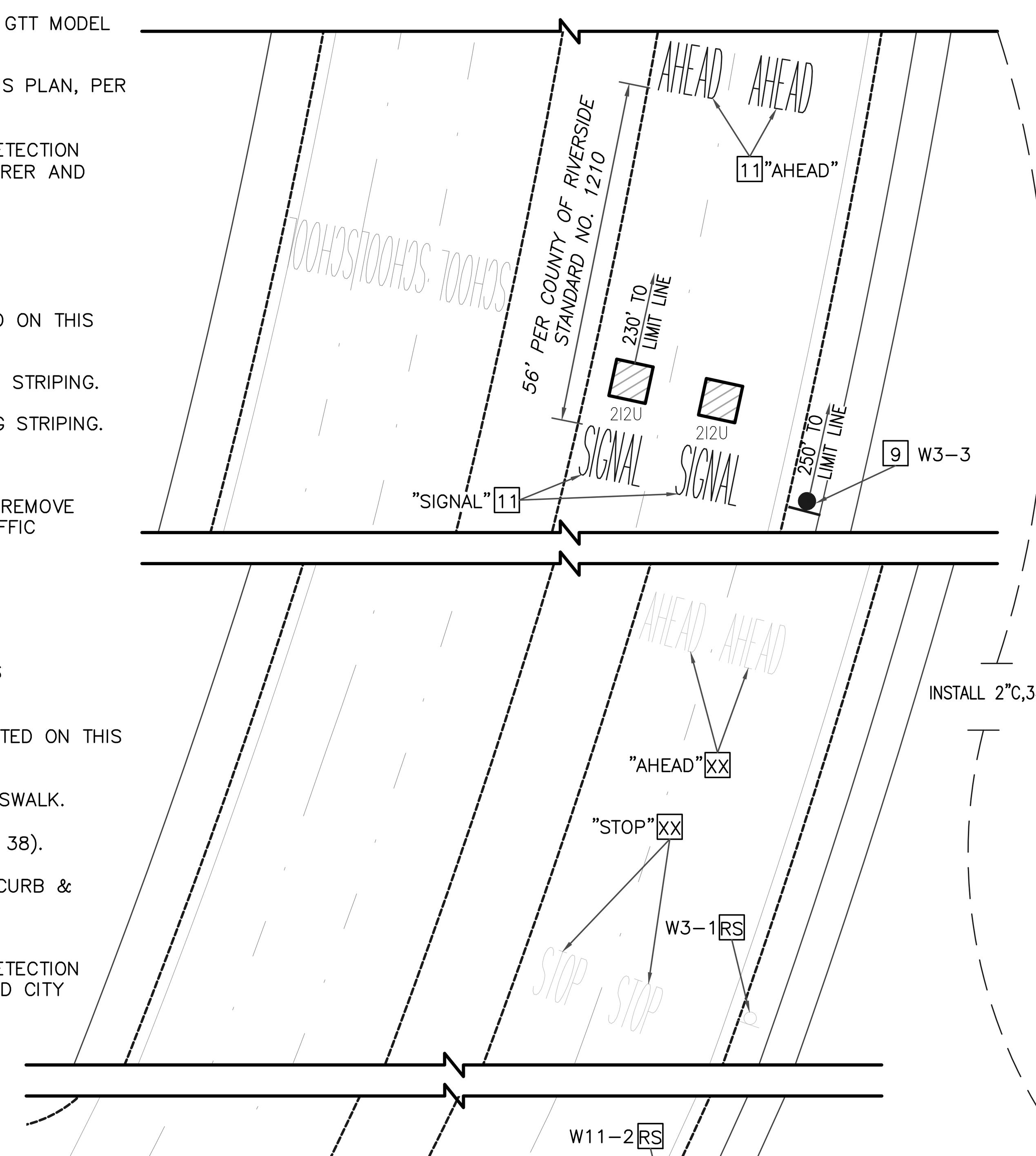


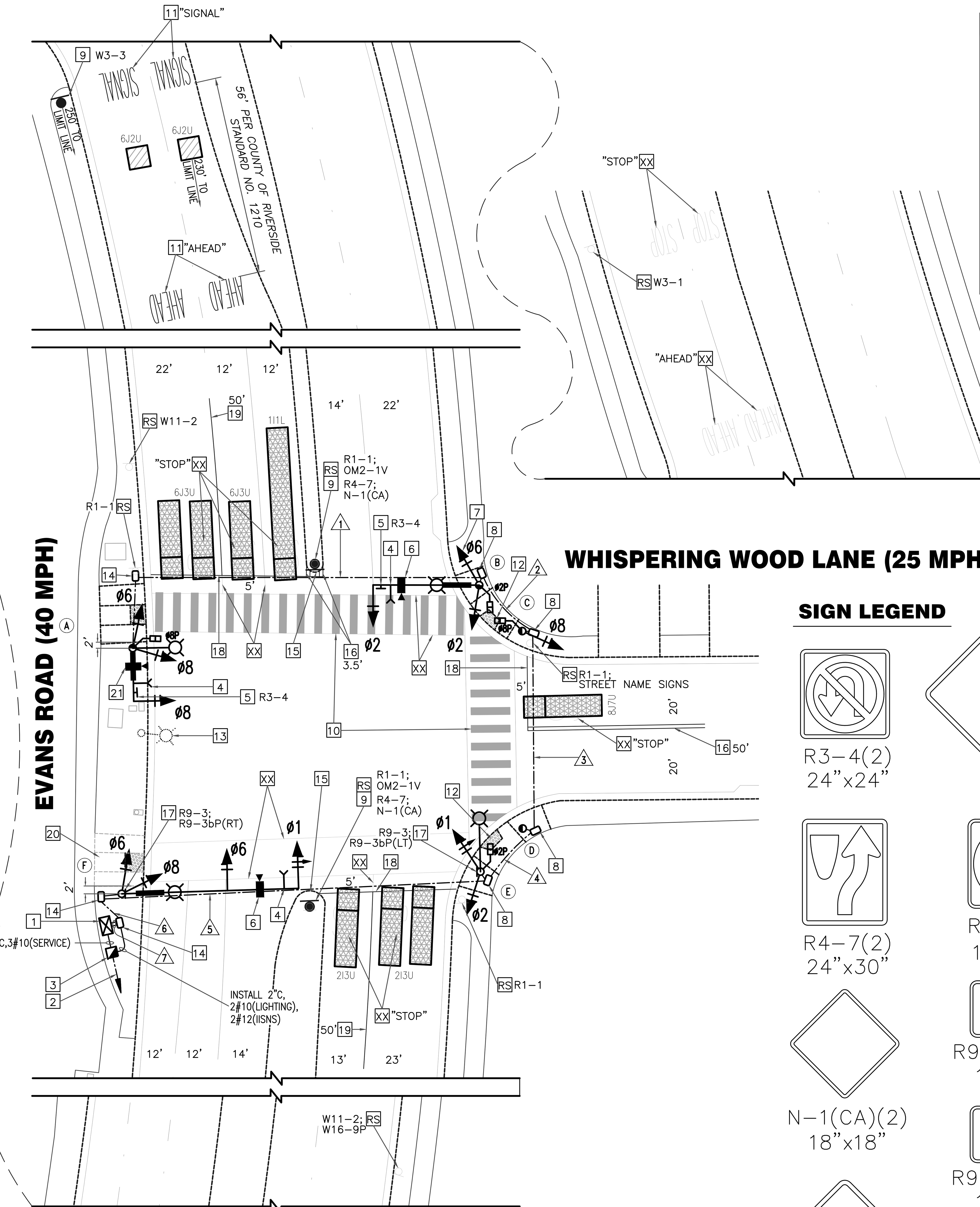
QUADRANT DETAIL
PEDESTRIAN/EQUESTRIAN PUSH BUTTON LOCATION
(TOP VIEW)



NOTE: FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE OR AS DIRECTED BY ENGINEER

(TYPICAL SIGNAL POLE PLACEMENT, UNLESS SHOWN ON PLANS)
SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS

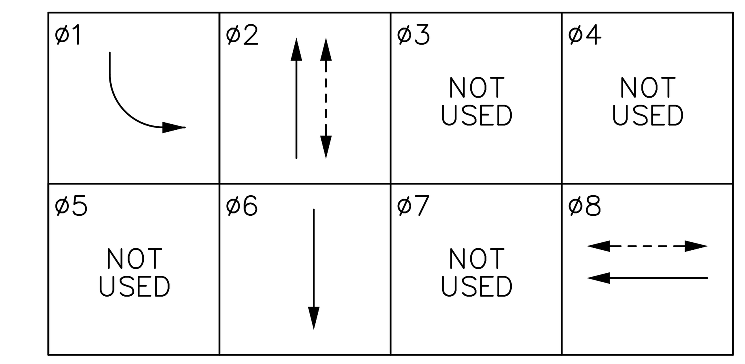




CONDUCTOR SCHEDULE

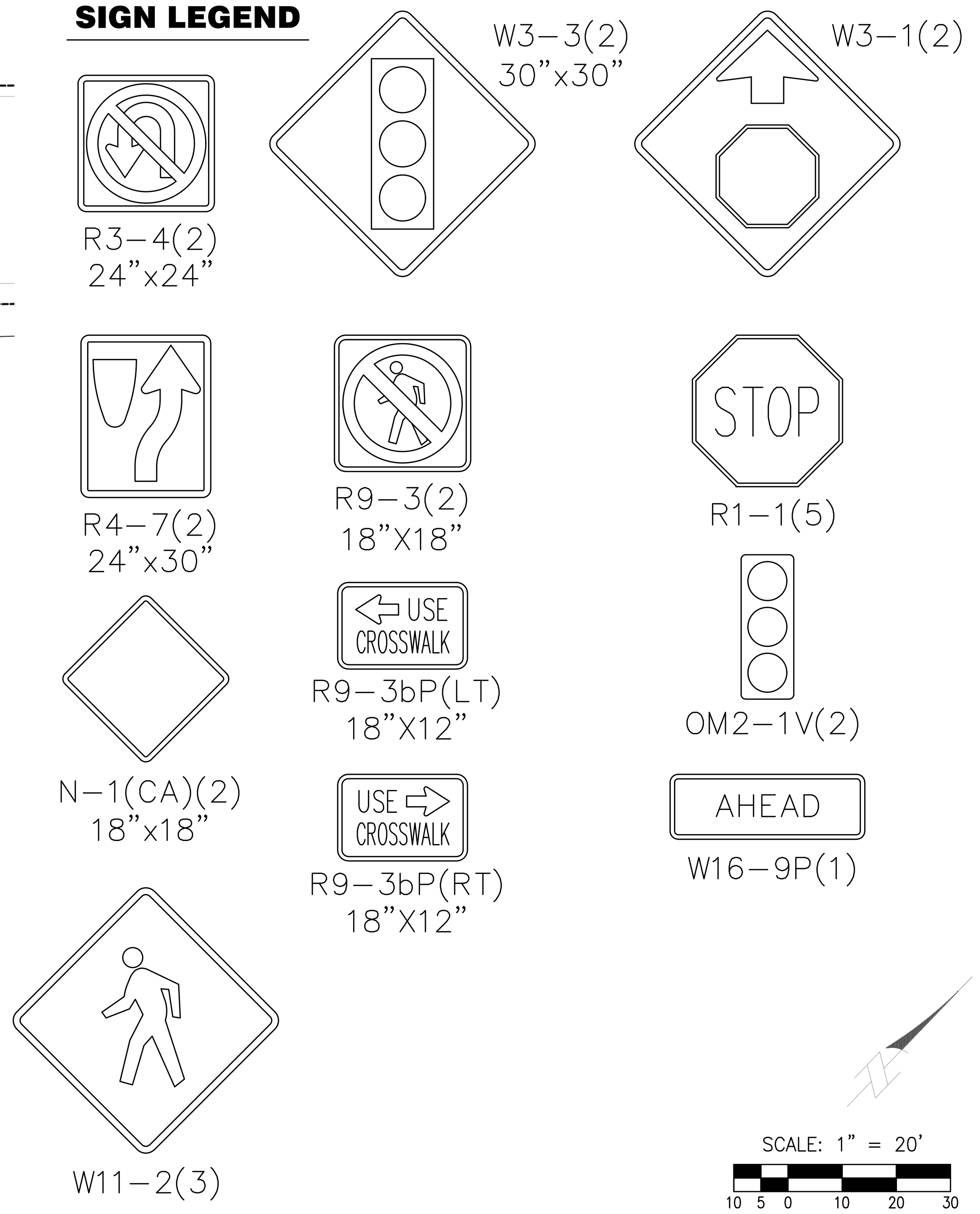
AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	3" (1)	4" (2)	4" (3)	4" (4)	4" (5)	2–4" (6)	2–4" (7)
12 CONDUCTOR / 3 CONDUCTOR	POLE – A	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	B	–/–	1/1	1/1	1/1	1/1	1/1	1/1
	C	–/–	–/–	1/1	1/1	1/1	1/1	1/1
	D	–/–	–/–	–/–	–/1	–/1	–/1	–/1
	E	–/–	–/–	–/–	–/–	1/–	1/–	1/–
	F	–/–	–/–	–/–	–/–	–/–	1/–	1/–
	TOTAL	1/1	2/2	3/3	3/4	4/4	5/4	5/4
#10	LUMINAIRES	2	2	2	2	2	2	–
3M OPTICOM CABLE #138		1	2	2	2	2	3	3
VIDEO DETECTION POWER		1	2	2	2	2	3	3
PERCENT FILL (%)		14	16	20	21	24	16	15

ALL CONDUCTORS AND CONDUIT ARE NEW.



PROPOSED PHASE DIAGRAM

SIGN LEGEND



SCALE: 1" = 20'
10 5 0 10 20 30

UNDERGROUND STRUCTURES

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

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEAL
REGISTERED PROFESSIONAL ENGINEER
ROBERT KAHN
No. 20285
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

RK ENGINEERING GROUP INC.
TRAFFIC ENGINEERING · PARKING STUDIES
TRANSPORTATION PLANNING · ENVIRONMENTAL ENGINEERING
www.rkengineer.com
NEWPORT BEACH
1401 Dove Street, Suite 540
Newport Beach, CA 92660
P: 949.474.0809

ROBERT KAHN R.C.E. No. 20285 Date: 01/10/2025 Exp. 9/30/25

DATE	NO.		APPR.	DATE

DRAWN BY: MR
DATE: –
DESIGNED BY: JN
DATE: –
CHECKED BY: RK
DATE: –
RECOMMENDED BY:
DATE:

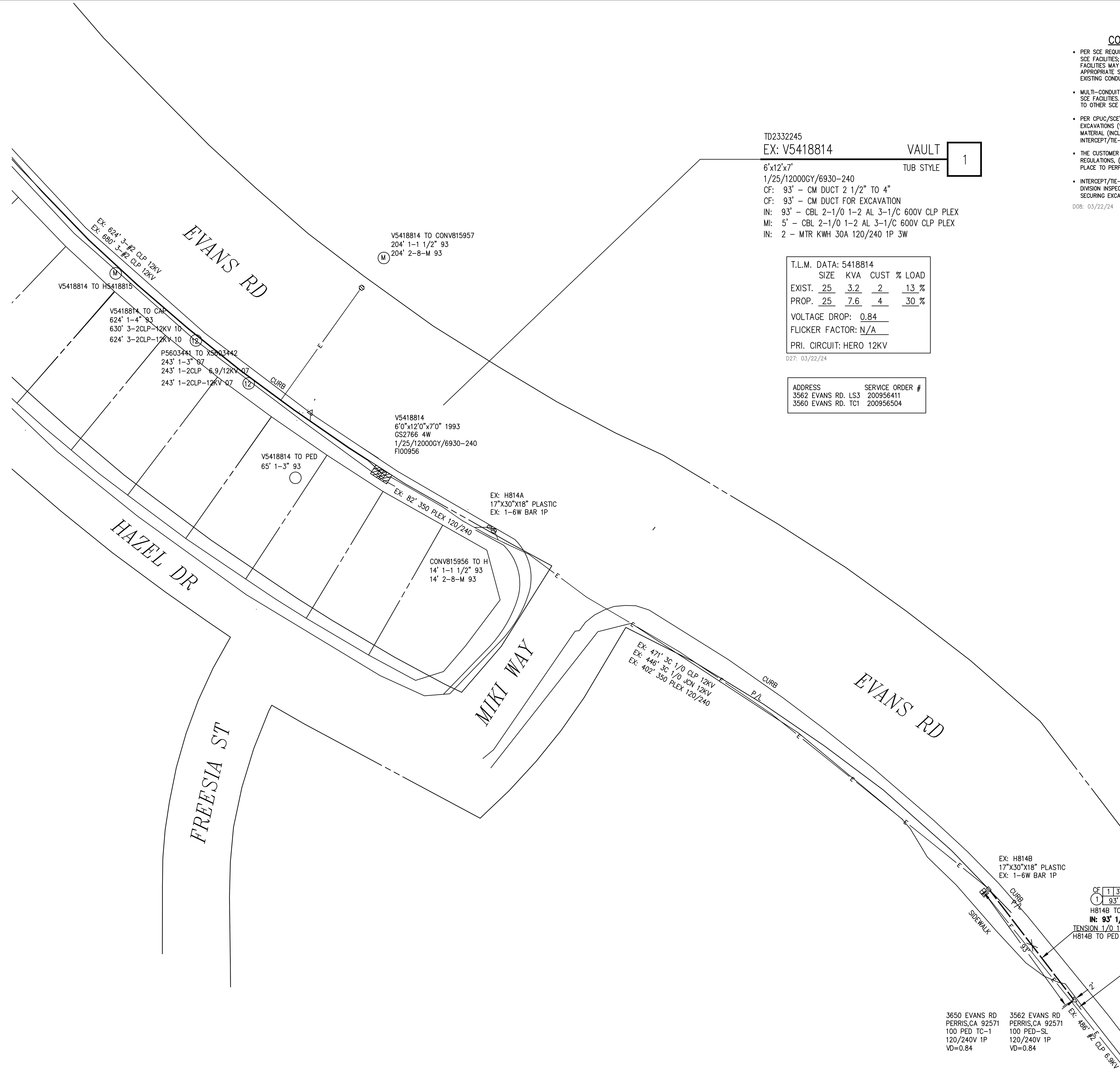
SERVICE ADDRESS: 3560 & 3562 EVANS ROAD
SIGNAL ENERGIZED: –
SG# –
SCALE: H: 1"=20' V: N/A

CITY OF PERRIS
REVIEWED BY:
J.Pourkazemi
CITY ENGINEER

CITY OF PERRIS
TRAFFIC SIGNAL PLAN
EVANS ROAD AT WHISPERING WOOD LANE

SHEET NO. 2 OF 2
FILE NO: CIP #T-036

Plotted By:mramon Date & Time Plotted:1/10/2025 1:48 PM
File Name:03522407_Evans Rd At Whispering Wood_TS.dwg
O:\0350-0399\03522407 - D\03522407_ACAD



TD2332245
EX: V5418814 VAULT 1
6'x12'x7' TUB STYLE
1/25/12000GY/6930-240
CF: 93' – CM DUCT 2 1/2" TO 4"
CF: 93' – CM DUCT FOR EXCAVATION
IN: 93' – CBL 2-1/0 1-2 AL 3-1/C 600V CLP PLEX
MI: 5' – CBL 2-1/0 1-2 AL 3-1/C 600V CLP PLEX
IN: 2 – MTR KWH 30A 120/240 1P 3W

T.L.M. DATA: 5418814

	SIZE	KVA	CUST	% LOAD
EXIST.	25	3.2	2	13 %
PROP.	25	7.6	4	30 %

VOLTAGE DROP: 0.84
FLICKER FACTOR: N/A
PRI. CIRCUIT: HERO 12KV

D27: 03/22/24

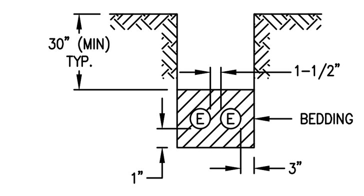
ADDRESS	SERVICE ORDER #
3562 EVANS RD. LS3	200956411
3560 EVANS RD. TC1	200956504

CONNECTING TO EXISTING SCE STRUCTURES

- PER SCE REQUIREMENTS, CUSTOMERS ARE NOT ALLOWED TO ENTER, INTERCEPT OR TIE-IN TO EXISTING SCE FACILITIES; E.G. STRUCTURES, EQUIPMENT, MULTI-CONDUIT RUNS/BANKS, OR CONDUCTORS. THESE FACILITIES MAY BE ENERGIZED AND THE WORK WILL ONLY BE PERFORMED BY SCE. CONTACT THE APPROPRIATE SCE INSPECTOR TO SCHEDULE AN APPOINTMENT. CUSTOMERS MAY CONNECT TO AN EXISTING CONDUIT STUB WITHOUT A SCE INSPECTOR PRESENT.
- MULTI-CONDUIT RUNS/BANKS ARE RUNS OF CONDUIT IN CLOSE PROXIMITY TO EACH OTHER AND OTHER SCE FACILITIES. A CONDUIT STUB IS A SINGLE EMPTY CONDUIT STUB THAT IS NOT IN CLOSE PROXIMITY TO OTHER SCE OWNED FACILITIES. REFER TO THE WORK ORDER MAP FOR DETAILS.
- PER CPUC/SCE'S RULE 15 B.1.A AND RULE 16 D.1.A., THE CUSTOMER WILL PROVIDE ALL NECESSARY EXCAVATIONS (WITH THE EXCEPTION OF EXCAVATION UNDER PADS AND PRIMARY SPLICE BOXES), MATERIAL (INCLUDING CONDUIT AND STRUCTURES) AND ENCASEMENT, TO BE UTILIZED IN THE INTERCEPT/TIE-IN PROCESS.
- THE CUSTOMER MUST ADHERE TO ALL APPLICABLE CAL-OSHA, LOCAL, CITY, STATE AND FEDERAL REGULATIONS, (INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SHORING AND TRAFFIC CONTROL IN PLACE TO PERFORM THE INTERCEPT/TIE-IN WORK BY SCE'S UNDERGROUND CIVIL CONTRACTOR(S)).
- INTERCEPT/TIE-IN WORK MUST BE COORDINATED WITH SCE'S CIVIL CONTRACTORS THROUGH THE DIVISION INSPECTOR/P-SPEC TO LIMIT EXPOSURE OF EXCAVATION(S). CUSTOMER IS RESPONSIBLE FOR SECURING EXCAVATION(S).

D08: 03/22/24

TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



DIRECT BURIAL
SIMILAR CONSTRUCTION FOR FEWER CONDUIT
2 CONDUITS MAX.

D81: 03/22/24

CONSTRUCTION NOTES:

UNLESS OTHERWISE SPECIFIED ON THE WORKING DRAWING WHICH FORMS A PART OF THE SPECIFICATION, THE CONTRACTOR/DEVELOPER SHALL FURNISH THE FOLLOWING ITEMS AT NO COST TO THE EDISON COMPANY.

SOUTHERN CALIFORNIA EDISON COMPANY HAS ATTEMPTED TO CORRECTLY SHOW ALL EXISTING UTILITIES AND SUBSTRUCTURES IN THE VICINITY OF THE WORK, BUT DOES NOT GUARANTEE THERE ARE NO OTHER SUBSTRUCTURES IN THE AREA. FAILURE OF SCE TO SHOW ALL SUBSTRUCTURES IN THEIR CORRECT LOCATION WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO SUBSTRUCTURES WHETHER SHOWN OR NOT.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.
2. CONDUIT:
   a. MINIMUM COVER IN STREET OR PARKWAY IS 30" BELOW GUTTER GRADE, UNLESS NOTED OTHERWISE.
   b. MINIMUM COVER ON PRIVATE PROPERTY IS 30" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
   c. CONTRACTOR IS TO FURNISH AND INSTALL APPROVED CONDUIT TO EDISON SPECIFICATIONS PER UGS CD 100.1, 110 AND 120.
   d. FOR THE TYPE OF CONDUIT FOR THIS JOB, SEE UGS CD 110.1.
   e. INSTALL ALL RISERS PER UGS CD 160, 161, 162 AND 170.
   f. CAP ALL MAINLINE CONDUITS PER UGS CD 148 AND SERVICE CONDUITS PER UGS CD 150.
   g. INSTALL BLANK CONDUIT PLUGS IN ALL CONDUITS TERMINATING INTO VAULTS, MANHOLE'S, PMH'S, SOE'S & ALL CAP LOCATIONS, PER UGS CD 180.1 & UGS CD 180.2
   h. INSTALL PULL ROPE IN ALL CONDUIT RUNS. PULL ROPE TO BE AT LEAST 3/8" POLYPROPYLENE ROPE, BRAIDED OR TWISTED. FOR SPECIFICATIONS, APPROVED MAKES, AND SUPPLIERS, SEE UGS GI 040.
   i. ALL CONDUIT MUST BE MANDRELED WITH THE APPROVED MANDREL UGS CD 197.
3. CONDUIT RADIUS REQUIREMENTS:
   a. THE MINIMUM RADIUS FOR BENDS ARE:
      36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
      48" FOR CONDUITS 4" AND 5" IN DIAMETER
      60" FOR 6" DIAMETER CONDUIT
   b. THE MINIMUM RADIUS FOR ALL SWEEPS OF ALL MAINLINE CONDUITS IS 12'-6" (UNLESS NOTED OTHERWISE).
4. EXCAVATION AND BACKFILL:
   a. WORK AREA SHALL BE CLEARED AND ROUGH GRADED TO WITHIN FOUR INCHES OF FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   b. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA STATE CONSTRUCTION SAFETY ORDERS (WHEN APPLICABLE), EDISON SPECIFICATIONS, AND ALL GOVERNING LOCAL ORDINANCES.
   c. EACH TRENCH TO BE A UNIFORM DEPTH BELOW FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   d. BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EXCAVATIONS AND SHALL INCLUDE CRUSHED ROCK, CONCRETE, AND/OR IMPORTED BACKFILL, WHEN REQUIRED.
   e. BACKFILL WITH A MINIMUM OF ONE SACK PER YARD SAND CEMENT SLURRY AROUND AND OVER VAULTS AND MANHOLES PER UGS GI 030, SECTION 6.4 AND AROUND PMH'S WITHIN ONE FOOT OF FINISHED GRADE, PER UGS SS 590.1.
   f. BACKFILL, PER EDISON SPECIFICATIONS, SHALL IMMEDIATELY FOLLOW CONDUIT OR SUBSTRUCTURE INSTALLATION. AT NO TIME SHALL CONDUIT BE LEFT EXPOSED OVER 24 HOURS.
   g. NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT-BURIED CABLES OR ANY CONDUIT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL CAPABLE OF PASSING THROUGH A ONE-HALF INCH MESH SCREEN SHALL BE CONSIDERED TO BE "ROCK FREE". IF EXISTING BACKFILL DOES NOT PASS THROUGH A 1/2" SCREEN, PLACE IMPORTED SAND 3" BELOW AND 12" ABOVE EDISON CABLES. AFTER THIS POINT, NO ROCKS LARGER THAN 12" DIAMETER ARE PERMITTED.
   h. ALL BACKFILL SHALL BE COMPACTED TO MEET OR EXCEED LOCAL ORDINANCES OR OTHER REQUIREMENTS. IT SHALL BE PLACED IN A MANNER THAT WILL NOT DAMAGE THE CONDUIT OR SUBSTRUCTURE OR ALLOW FUTURE SUBSIDENCE OF THE TRENCH OR STRUCTURES.
5. PAVING:
   REPAVING, WHERE REQUIRED, SHALL BE PLACED IN SUCH A MANNER THAT INTERFERENCE WITH TRAFFIC, INCLUDING PEDESTRIAN TRAFFIC, WILL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL ESTABLISH A PROGRAM OF REPAVING ACCEPTABLE TO THE MUNICIPALITY, COUNTY, OR OTHER AUTHORITY HAVING JURISDICTION AND WHICH IS ACCEPTABLE TO EDISON.
6. STRUCTURES:
   a. ALL SUBSTRUCTURES SHALL BE CONSTRUCTED OR INSTALLED TO EDISON SPECIFICATIONS.
   b. INSTALL PROTECTION BARRIERS PER UGS MS 830 WHEN REQUIRED IN AREAS EXPOSED TO TRAFFIC, PER EDISON INSPECTOR.
   c. ALL CONDUIT LINES AND CONCRETE FLOORED SUBSTRUCTURES SHALL BE WATER TIGHT.
   d. ALL GROUNDING MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
7. RETAINING WALLS:
   WHEN REQUIRED, RETAINING WALLS SHALL BE PROVIDED BY THE DEVELOPER. WALLS ARE REQUIRED WHEREVER GRADE RISES MORE THAN 18 INCHES ABOVE THE STRUCTURE OR 24" ABOVE THE PAD SURFACE AT A DISTANCE OF 5 FEET FROM THE SAME, OR IN AREAS SUBJECT TO EROSION. DESIGN AND INSTALLATION MUST COMPLY WITH LOCAL BUILDING ORDINANCES. REFER TO EDISON INSPECTOR FOR TYPICAL SPACE REQUIREMENTS.
8. PERMITS:
   ALL PERMITS NECESSARY FOR EXCAVATION SHALL BE PROVIDED BY THE CONTRACTOR/DEVELOPER.
9. ACCESS:
   HEAVY TRUCK ACCESS SHALL BE MAINTAINED TO EQUIPMENT LOCATIONS. STRUCTURES MUST BE CLEAR OF ALL APPURTENANCES THAT WOULD OBSTRUCT THE LOADING OR UNLOADING OF EQUIPMENT.
10. SERVICES:
    a. METERS AND SERVICES SHALL COMPLY WITH EDISON ELECTRICAL SERVICES REQUIREMENTS.
    b. WIRING MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES AND APPROVED BY LOCAL INSPECTION AUTHORITIES.
11. LOCATION:
    a. THE LOCATION OF EXCAVATIONS AND STRUCTURES FOR EDISON SHALL BE AS SHOWN ON THE WORKING DRAWING. NO DEVIATION FROM THE PLANNED LOCATIONS WILL BE PERMITTED UNLESS APPROVED BY THE EDISON INSPECTOR. SEE UGS GI 001, SECTION 2.2.
    b. ACTUAL LOCATION OF OBSTRUCTIONS, STORM DRAINS, AND/OR OTHER FOREIGN UTILITIES TO BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE UGS GI 001, SECTION 2.3.
12. CONTRACTOR IS TO VERIFY LOCATION AND WIDTHS OF ALL SIDEWALKS AND DRIVEWAYS PRIOR TO STREET LIGHT INSTALLATION. SEE UGS CD 175.1, UGS CD 175.2 AND UGS CD 175.3.
13. SURVEY:
    SURVEYING OF STREET IMPROVEMENTS, PROPERTY CORNERS, LOT LINES, FINISHED GRADE, ETC., NECESSARY FOR THE INSTALLATION OF UNDERGROUND FACILITIES MUST BE COMPLETED AND MARKERS OR STAKES PLACED PRIOR TO THE START OF THE INSTALLATION. IN ADDITION, DEVELOPER SHALL MAINTAIN THE MARKERS DURING THE INSTALLATION AND INSPECTION BY EDISON. GRADE AND PROPERTY LINE STAKES MUST SHOW ANY OFFSET MEASUREMENTS.
14. COORDINATION AND SUPERVISION:
    THE DEVELOPER SHALL PROVIDE SUPERVISION OVER AND COORDINATION AMONG THE VARIOUS CONTRACTORS WORKING WITHIN THE DEVELOPMENT IN ORDER TO PREVENT DAMAGE TO EDISON FACILITIES. HE IS RESPONSIBLE FOR THE COST OF REPAIRS, REPLACEMENT, RELOCATION, OR OTHER CORRECTIONS TO EDISON FACILITIES MADE NECESSARY BY HIS FAILURE TO PROVIDE SUPERVISION OR TO OTHERWISE COMPLY WITH THESE SPECIFICATIONS.
15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
    THE DRAWING PREPARED FOR THIS JOB MAY ALSO COVER THE FACILITIES TO BE INSTALLED FOR THE TELEPHONE COMPANY AND/OR OTHER UTILITY. ANY QUESTIONS CONCERNING DETAILS OF THEIR INSTALLATION SHOULD BE REFERRED TO THE COMPANY CONCERNED.
16. OWNERSHIP:
    DEVELOPER IS TO DEED TO THE EDISON COMPANY ALL STRUCTURES SHOWN HEREON EXCEPT THOSE SHOWN AS CUSTOMER OWNED.
17. WARRANTY:
    APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANT'S EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY COMPANY DURING THIS WARRANTY PERIOD.
18. INSPECTION:
    INSPECTION IS REQUIRED DURING THE CONSTRUCTION PERIOD. A 48 HOUR ADVANCE NOTICE OF INTENT TO START CONSTRUCTION IS REQUIRED FROM THE CONTRACTOR TO THE SOUTHERN CALIFORNIA EDISON COMPANY. STANDARDS OF EDISON CONSTRUCTION REQUIREMENTS ARE AVAILABLE UPON REQUEST.

DUCT AND STRUCTURE INSPECTOR: TBD — PHONE: UGINSPECTIONS77@SCE.COM
CABLING CONSTRUCTION COORDINATOR: — PHONE:

D05: 03/22/24

PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED UG	N
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	N
PERMIT TYPE: PRIVATE	
OUTAGE REQUIRED	N
OUTAGE DATE: N/A TIME:	
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	Y
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	Y
CIRCUIT MAP CHANGE REQ'D (TD 203)	N
DIG ALERT APP	N
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	
UTILIQUEST NOTIFIED	
FAA MARKING REQ'D	N
FAA TYPE: N/A	
STANDARD ADHERENCE: 4 Q/ 2024 Y	

D124: 02/23/24

WARNING

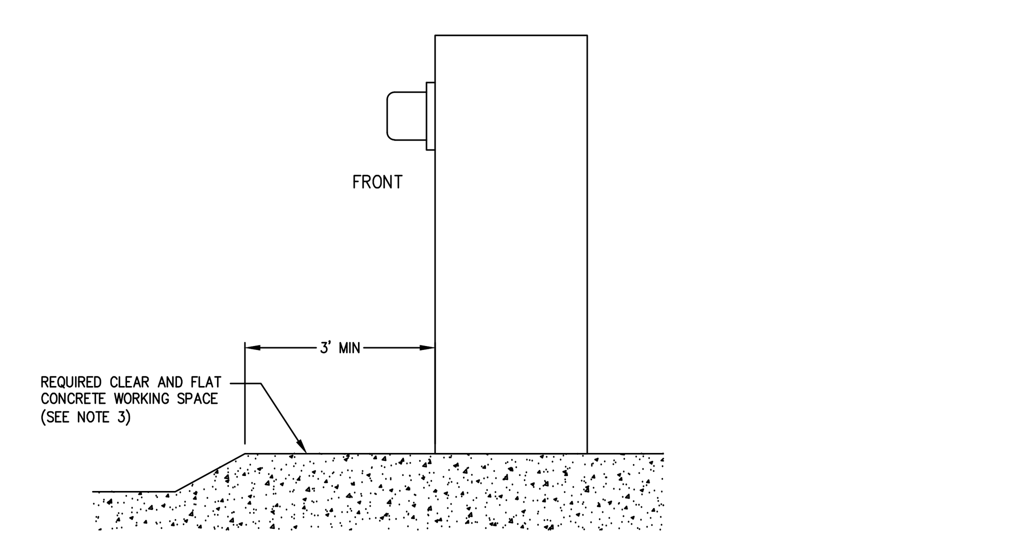
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

D13: 03/22/24

UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING
TWO WORKING DAYS BEFORE YOU DIG

D16: 03/22/24

PANEL CLEARANCE
UNDERGROUND SERVICE CONNECTIONS 0-600 VOLTS
SEE ESR 3-16



SIDE VIEW

NOTES:
1. A MINIMUM OF THREE (3) FEET OF CLEAR, LEVEL WORKSPACE IS REQUIRED IN FRONT OF ALL TERMINATION, METERING, AND SERVICE EQUIPMENT.
2. SEE ESR-5 FOR METER-MOUNTING HEIGHT REQUIREMENTS. METER-MOUNTING HEIGHT WILL BE MEASURED FROM THE STANDING AND WORKING SPACE TO THE CENTERLINE OF THE METER(S).
3. WHEN SERVICE EQUIPMENT IS INSTALLED ON AN ELEVATED PORTION OF THE FLOOR/GROUND, OR HOUSEKEEEPING PAD, THE PAD SHALL BE FLUSH WITH AND EXTEND A MINIMUM OF THREE (3) FEET. THIS IS MEASURED FROM THE FRONT OF THE SERVICE EQUIPMENT OR THE OUTER DOOR(S) OF THE SWITCHBOARD NEMA 3R ENCLOSURE WHEN INSTALLED. IN NO CASE SHALL THE MAXIMUM METER HEIGHT OF 6'-3" BE EXCEEDED.
4. TO MAINTAIN A SAFE, CLEAR, AND LEVEL WORKING AREA IN FRONT OF NEW OR EXISTING METER AND SERVICE EQUIPMENT, A CONCRETE SLAB, ACCEPTABLE TO THE COMPANY, MUST BE USED.
5. FOR SWITCHBOARDS ABOVE 600V, FIVE-FOOT MINIMUM OF CLEAR AND LEVEL CONCRETE STANDING AND WORKING SPACE IS REQUIRED IN THE FRONT, REAR, AND SIDE OF ANY SECTION WHERE SUCH PART SUPPORTS OR PROVIDES ACCESS TO METERING, TESTING EQUIPMENT, OR SERVICE CABLE TERMINATION SECTIONS.

16.11 PROTECTIVE BARRIERS (POSTS/BOLLARDS) FOR SERVICE EQUIPMENT

BARRIER POSTS/BOLLARDS ARE USED TO PROTECT THE METER AND SERVICE EQUIPMENT, AS WELL AS PERSONNEL, FROM VEHICULAR CONTACT, AND TO PROHIBIT ENCROACHMENT INTO THE WORKING SPACE (FOR EXAMPLE, LOADING ZONES, DRIVEWAYS, CONGESTED AREAS, OFF STREET PARKING, AND SO ON).

THE CUSTOMER SHALL PROVIDE AND INSTALL "NON-REMOVABLE" BARRIERS (POSTS/BOLLARDS) TO PROVIDE THE PROPER SAFE WORKING CLEARANCES WHERE THE WORKSPACE IS EXPOSED TO VEHICULAR OR OTHER HAZARDOUS CONDITIONS. METERS WILL NOT BE SET UNTIL THE BARRIERS HAVE BEEN INSTALLED. METER CABINET DOORS MUST OPEN A MINIMUM OF 90 DEGREES AND NOT CONFLICT WITH BARRIER POSTS. A MINIMUM CLEARANCE OF 3-FEET IS REQUIRED FROM THE FACE OF THE SWITCH GEAR TO THE BOLLARD/POST.

D99: 03/22/24

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

FINAL DESIGN
APPROVED FOR CONSTRUCTION

SCALE: 1" = 40'
0 40 80

DISTRICT 77 – MENIFEE	PROJ. MGR. WILLIAMS, DOUGLAS PHONE 951-813-9210	PLANNER WILLIAMS, DOUGLAS PHONE 951-813-9210	DESIGNER SINGH CORRAL, JENNIFER
PROJECT NO. 2895730 / SERVICE REQUEST 3777746	MSR NO. SEE ABOVE	PRODUCT-1 2332245–NEW METER & SERVICE	ASSOC DESGN
CIRCUIT / VOLTAGE HERO 12KV	GPS	PRODUCT-2	ASSOC DESGN
SUB / PG NO. BUNKER SUB (D2)	CIRCUIT CODE 08341	PRODUCT-3	ASSOC DESGN
INVENTORY MAP 610-1708-5	J.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) NEW METER AND SERVICE TC-1/LS-3 3560 EVANS RD PERRIS CA 92570	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #

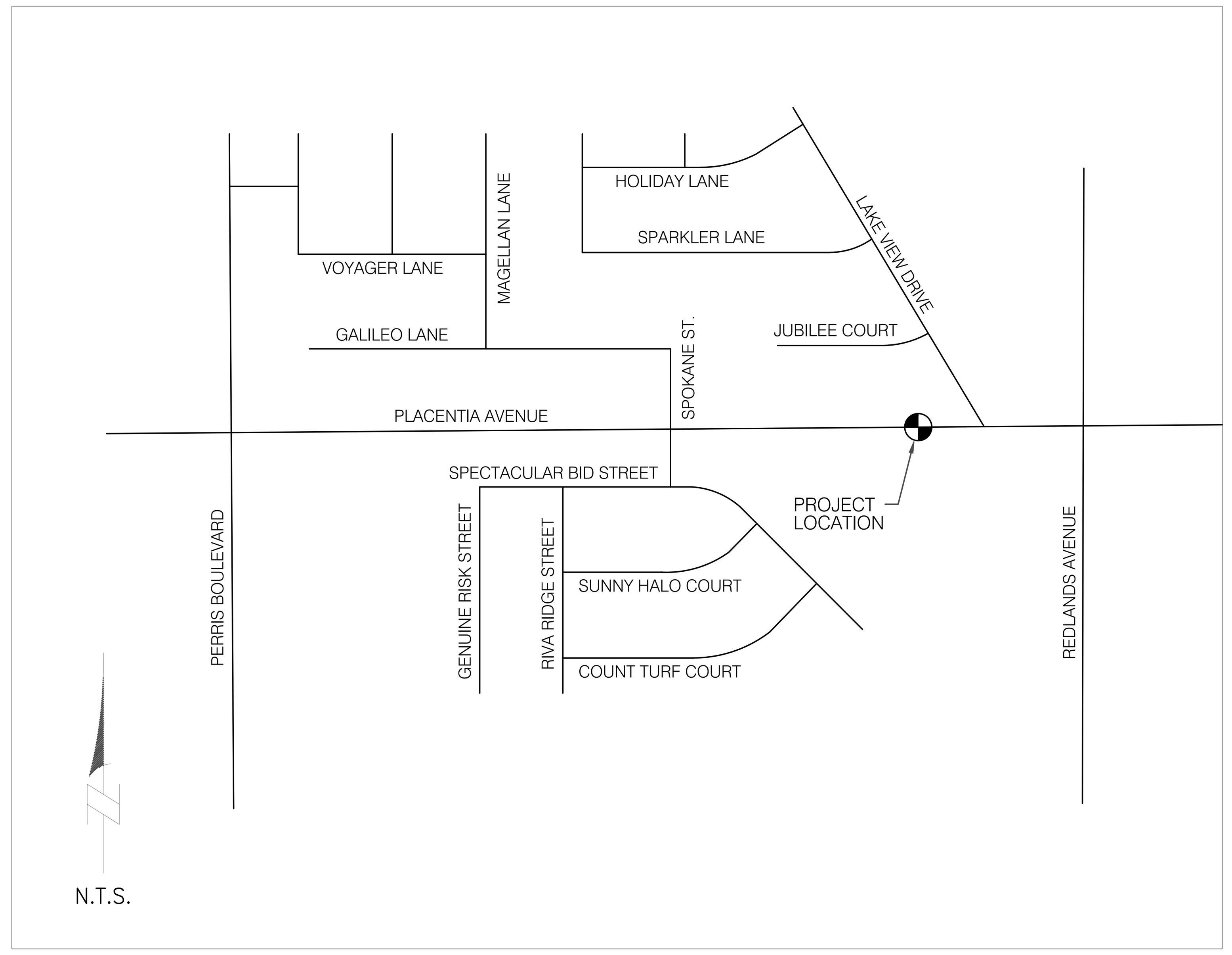
Southern California Edison Company

SHEET 1 OF 1 — DESIGN\DRWG NO. 1784700_0.01

CITY OF PERRIS
TRAFFIC SIGNAL AND SIGNING & STRIPING PLANS
RIVERSIDE COUNTY FIRE STATION 90
333 PLACENTIA AVENUE
CIP #T-037

GENERAL TRAFFIC SIGNAL NOTES:

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS (2023), CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014, REVISION 8), AND THESE SPECIAL PROVISIONS FOR THIS PROJECT.
2. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, 811, AND ALL CONCERNED UTILITY COMPANIES AT LEAST TWO WORKING DAYS IN ADVANCE OF EXCAVATION. LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL DAMAGES OCCURRED DUE TO FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. HAND DIG AS NEEDED OR AS DIRECTED BY THE ENGINEER UNTIL CLEAR OF OBSTRUCTIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON CITY RIGHT—OF—WAY AFFECTED BY THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL KEEP CITY RIGHT—OF—WAY CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. METHOD OF STREET CLEANING SHALL BE DRY SWEEPING OF ALL PAVED AREAS. THERE SHALL BE NO STOCKPILING OF CONSTRUCTION MATERIALS WITHIN THE CITY RIGHT—OF—WAY WITHOUT THE PERMISSION OF THE ENGINEER.
4. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REMOVED AND REPLACED AS APPROVED BY THE CITY ENGINEER. PAVEMENT RESTORATIONS SHALL BE PER CITY OF PERRIS STANDARDS.
5. SEE CALTRANS STANDARD PLAN ES—1A, ES—1B, AND ES—1C FOR SYMBOLS AND ABBREVIATION LEGENDS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC SIGNAL EQUIPMENT, SIGNS, AND STRIPING IN ACCORDANCE WITH THE PLANS AND SPECIAL PROVISIONS. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE UNLESS OTHERWISE NOTED.
7. CONTROLLER CABINET AND SERVICE CABINET SHALL BE PLACED AT A MINIMUM OF 15 FEET APART.
8. ELECTRICAL CONDUIT SHALL BE PLACED AT A MINIMUM OF 2 FEET FROM TELEPHONE CONDUIT.
9. ALL PULL BOXES SIZE SHALL BE NO. 6 UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. PULL BOXES IN UNIMPROVED AREAS NOT PROTECTED BY CURB AND GUTTER SHALL BE TRAFFIC BEARING TYPE. MAXIMUM SPACING BETWEEN PULL BOXES SHALL BE 200 FEET.
10. ALL CONDUITS SHALL BE 2—INCH TYPE 3 SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. ALL CONDUITS PLACED UNDER PAVING SHALL BE INSTALLED WITHOUT OPEN CUTTING.
11. ALL CABLES AND CONDUCTORS SHALL BE CONTINUOUS WITH A MINIMUM OF 6 FEET OF SLACK INSIDE EACH PULL BOX UNLESS OTHERWISE NOTED.
12. ALL COMBINATION PEDESTRIAN AND VEHICLE SIGNAL INDICATIONS INCLUDING PV HEADS SHALL UTILIZE LIGHT EMITTING DIODE (L.E.D.) TECHNOLOGY. PEDESTRIAN SIGNAL HEADS SHALL BE THE COUNTDOWN TYPE.
13. VEHICLE SIGNAL BACKPLATES SHALL INCLUDE A 2" WIDE YELLOW RETROREFLECTIVE TAPE BORDER.
14. THE CONTRACTOR SHALL POT—HOLE BEFORE TRAFFIC SIGNAL POLES ARE ORDERED.
15. A TEMPORARY TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER PRIOR TO THE START OF ANY WORK.
16. THE CONTRACTOR IS REQUIRED TO SUBMIT "AS—BUILT" PLANS TO THE ENGINEER PRIOR TO THE CITY ACCEPTING THE INSTALLATIONS. THE PLANS SHALL INDICATE ALL DEVIATIONS FROM THE CONTRACT PLANS, SUCH AS LOCATION OF POLES, PULL BOXES AND RUNS, DEPTHS OF CONDUIT, NUMBER OF CONDUCTORS AND OTHER APPURTENANT WORK FOR FUTURE REFERENCE.
17. THE CONTRACTOR SHALL ALSO FURNISH CABINET INVENTORY SHEETS. THESE SHEETS SHALL INCLUDE SERIAL AND MODEL NUMBERS OF ALL EQUIPMENT CONTAINED IN THE CABINET.
18. THE CONTRACTOR SHALL CREATE THE INITIAL SIGNAL SETTINGS AND TIMINGS FOR THE PROPOSED TRAFFIC SIGNAL CONTROLLER OPERATION. A COPY OF THE TIMING SHEET SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO ACCEPTANCE.



VICINITY MAP

GENERAL SIGNING AND STRIPING NOTES:

1. ALL SIGNING AND STRIPING SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA MUTCD AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. ALL REQUIRED STRIPING, PAVEMENT MARKERS AND SIGNAGE SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY THE CITY ENGINEER.
3. ALL STRIPING AND PAVEMENT MARKING REMOVALS SHOWN ON THE PLAN SHALL BE REMOVED BY WET SANDBLASTING AS DIRECTED BY THE ENGINEER.
4. THE LOCATION OF ALL SIGNS SHALL BE PER APPROVED PLAN, AND AS DIRECTED BY THE CITY ENGINEER.
5. ALL LANE LINES, PAVEMENT LEGENDS, AND CROSSWALKS SHALL BE APPLIED WITH ALCHYD THERMOPLASTIC.
6. SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED ON THE PLAN. SALVAGED SIGNS SHALL BE DELIVERED TO THE CITY OF PERRIS MAINTENANCE YARD AS DIRECTED BY THE PUBLIC WORKS INSPECTOR ASSIGNED.
7. EXISTING ADJACENT STRIPING WITHIN THE VICINITY OF THE INTERSECTION THAT ARE DULL SHALL BE REFRESHED AS APPROVED BY THE CITY ENGINEER.

INDEX OF SHEETS

NOTICE TO CONTRACTORS

PURSUANT TO ASSEMBLY BILL 3019, NO EXCAVATION PERMIT IS VALID UNLESS THE FOLLOWING IS PERFORMED:

1. UNDERGROUND SERVICE ALERT HAS BEEN CONTACTED AND HAS PROVIDED INQUIRY I.D.# ________
2. THE UNDERSIGNED AGREES TO CONTACT AND OBTAIN AN INQUIRY I.D.# FROM UNDERGROUND SERVICE ALERT 811 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.

SIGNED ________ DATE ________

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

DIGALERT
DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

DATE	NO.	REVISION DESCRIPTION	APPR.	DATE

DRAWN BY: MR
DATE: –
DESIGNED BY: JN
DATE: –
CHECKED BY: RK
DATE: –
RECOMMENDED BY: –
DATE: –

SEAL
REGISTERED PROFESSIONAL ENGINEER
ROBERT KAHN
No. 20285
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

RK ENGINEERING GROUP INC.
TRAFFIC ENGINEERING · PARKING STUDIES
TRANSPORTATION PLANNING · ENVIRONMENTAL ENGINEERING
www.rkengineer.com
NEWPORT BEACH
1401 Dove Street, Suite 540
Newport Beach, CA 92660
P: 949.474.0809

ROBERT KAHN R.C.E. No. 20285 Date: 02/17/25 Exp. 9/30/25

CITY OF PERRIS
REVIEWED BY:
J.Pourkazemi
CITY ENGINEER Date 02/18/2025

SERVICE ADDRESS:
TC–1: 396 PLACENTIA AVE./LS–3: 398 PLACENTIA AVE.
SIGNAL ENERGIZED: –
SG# –
SCALE: H: N/A V: N/A

CITY OF PERRIS
TITLE SHEET AND SPECIAL PROVISIONS
FIRE STATION ADDRESS: 333 PLACENTIA AVENUE

SHEET NO. 1 OF 3 SHTS

FOR: – W.O. – CITY FILE NO. CIP #T-037

O:\0350–0399\03522318 – D\03522318_ACAD

File Name: 03522318_TS Design.dwg Plotted By: mramon Date & Time Plotted: 2/17/2025 8:42 AM

POLE AND EQUIPMENT SCHEDULE■

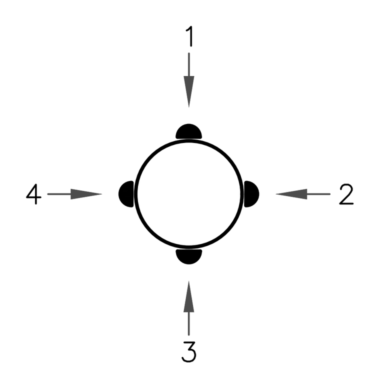
NO.	STANDARDS				VEH. SIGNAL MTG.		PED. SIG.	P.P.B.		POLE LOC.		LED	STANDARD MOUNTED I.I.S.N.S.**	COMMENTS
	TYPE	HEIGHT	SIGNAL M.A.	LUMIN. M.A.	MAST ARM	POLE	MTG.	Ø	QUAD	A	B	Luminare		
Ⓐ	19–4–100	30'	30'	12'	2–MAS	SV–1–T	–	–	–	–*	5'	111W	Fire Station	F=15'
Ⓑ	1A	10'	–	–	–	TV–2–T	–	–	–	–*	3'	–	–	–
Ⓒ	24–4–100	30'	35'	12'	2–MAS	SV–1–T	–	–	–	–	6'	111W	Fire Station	F=15.5'

■ EXACT POLE LOCATIONS DETERMINED BY FIELD ENGINEER; POTHOLE POLE FOUNDATIONS PRIOR TO ORDERING POLES.
ALL EQUIPMENT IS NEW.
* AS INDICATED ON PLAN.
** STREET NAME SIGNS MOUNTED ON AUXILIARY MAST ARM.

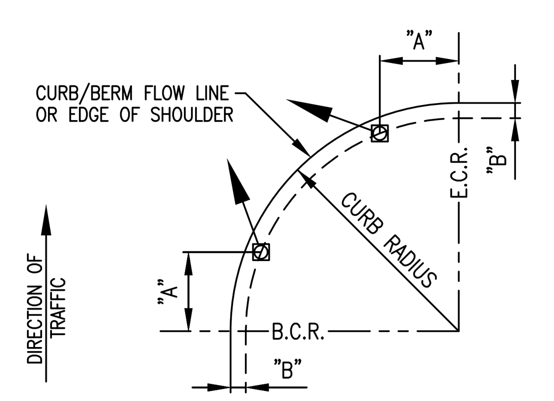
CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	POLE OR CIRCUIT	2" (1)	2" (2)	2" (3)	3" (4)
12 CONDUCTOR / 3 CONDUCTOR	POLE – A	– / –	– / –	1 / –	1 / –
	B	– / –	– / –	– / –	1 / –
	C	1 / –	1 / –	– / –	1 / –
	TOTAL	1 / –	1 / –	1 / –	3 / –
#12	I.I.S.N.S.	2	2	2	–
#10	LUMINAIRES	2	2	2	–
3M OPTICOM CABLE #138		–	–	–	1
PERCENT FILL (%)		15	15	15	17

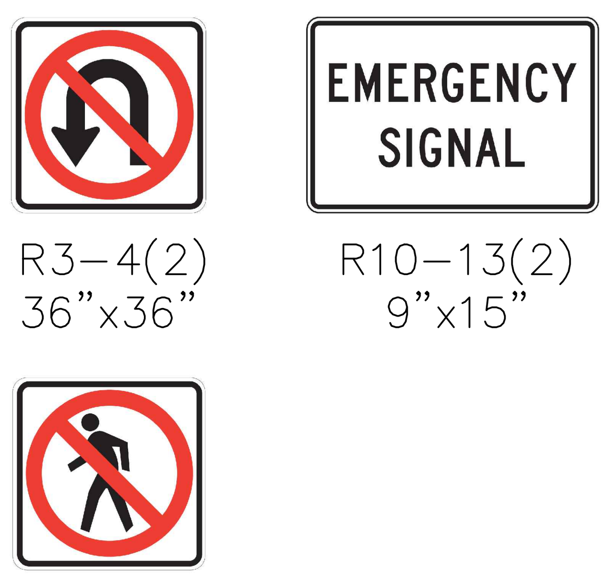
ALL CONDUCTORS AND CONDUIT ARE NEW.



QUADRANT DETAIL
PEDESTRIAN/EQUESTRIAN PUSH BUTTON LOCATION
(TOP VIEW)



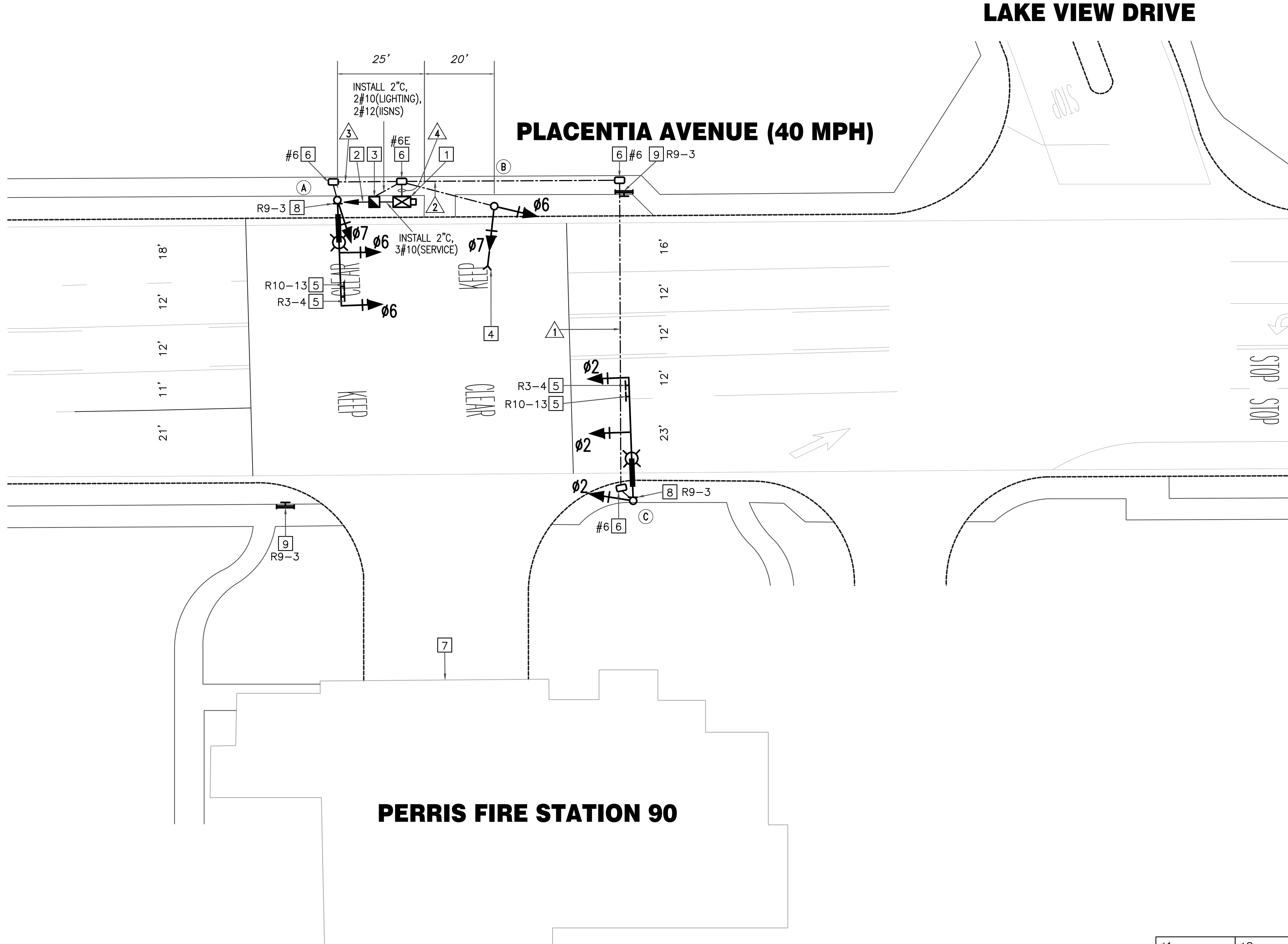
NOTE: FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE OR AS DIRECTED BY ENGINEER
(TYPICAL SIGNAL POLE PLACEMENT, UNLESS SHOWN ON PLANS)
SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS



R3–4(2)
36"x36"

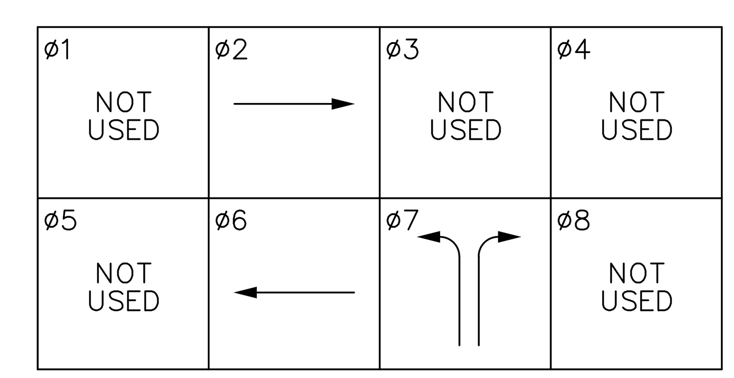
R10–13(2)
9"x15"

R9–3(4)
18"x18"



CONSTRUCTION NOTES (THIS SHEET):

1. FURNISH AND INSTALL TYPE 2070E CONTROLLER TO ACCOMMODATE OPERATION PER PHASE DIAGRAM IN A TYPE 332L CABINET, PER CALTRANS STD PLAN ES–3C. FURNISH AND INSTALL AI–500–085 GLANCE PREEMPT & PRIORITY VIDEO CAPABLE FMU CONTROLLER TO THE CABINET PER MANUFACTURER'S SPECIFICATIONS. FURNISH AND INSTALL OPTICAL DATA AGGREGATOR IN PLACE OF EVP CARD TO ALLOW FOR OPTICOM OPTICAL SYSTEM TO FUNCTION. SEE SPECIAL PROVISIONS FOR INSTALLATION GUIDE. FURNISH AND INSTALL BATTERY BACK–UP SYSTEM PER RIVERSIDE COUNTY STANDARD.
2. FURNISH AND INSTALL 3"C WITH PULLROPE PER S.C.E REQUIREMENTS. CONTACT S.C.E. SERVICE PLANNER 48 HOURS BEFORE BEGINNING WORK.
3. FURNISH AND INSTALL TYPE III–CF 120V/240V DUAL METER SERVICE EQUIPMENT ENCLOSURE. SIGNAL CONNECTED TO ONE METER AND SAFETY LIGHTING TO BE CONNECTED TO SECOND METER. FURNISH AND INSTALL TYPE V P.E.C. IN SERVICE EQUIPMENT ENCLOSURE. CONTRACTOR TO PROVIDE FOR ALL REQUIRED ELECTRIC SERVICE HOOK–UPS.
4. FURNISH AND INSTALL GTT OPTICOM DETECTOR MODEL 721 WITH GTT MODEL 138 DETECTOR CABLE.
5. FURNISH AND INSTALL SIGN ON MAST ARM AS INDICATED ON THIS PLAN, PER CALTRANS STD PLAN ES–7N, DETAIL "U".
6. FURNISH AND INSTALL PULL POX AS INDICATED.
7. FURNISH AND INSTALL APPLIED INFORMATION FIRE STATION PUSH BUTTON ACTUATOR PER MANUFACTURER'S SPECIFICATIONS. LOCATION WITHIN THE FIRE STATION TO BE DETERMINED BY FIRE STATION STAFF. SEE SPECIAL PROVISIONS FOR INSTALLATION GUIDE.
8. FURNISH AND INSTALL SIGN TO POLE AS INDICATED ON THIS PLAN.
9. FURNISH AND INSTALL SIGN AND PEDESTRIAN BARRICADE AS INDICATED ON THIS PLAN.



PROPOSED PHASE DIAGRAM

SCALE: 1" = 20'

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

UNDERGROUND STRUCTURES

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

SEAL
REGISTERED PROFESSIONAL ENGINEER
ROBERT KAHN
No. 20285
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

RK ENGINEERING GROUP INC.
TRAFFIC ENGINEERING · PARKING STUDIES
TRANSPORTATION PLANNING · ENVIRONMENTAL ENGINEERING
www.rkengineer.com
NEWPORT BEACH
1401 Dove Street, Suite 540
Newport Beach, CA 92660
P: 949.474.0809
ROBERT KAHN R.C.E. No. 20285 Date: 02/17/2025 Exp. 9/30/25

DATE	NO.		APPR.	DATE

DRAWN BY: MR
DATE: –
DESIGNED BY: JN
DATE: –
CHECKED BY: RK
DATE: –
RECOMMENDED BY:
DATE:

SERVICE ADDRESS:
TC–1: 396 PLACENTIA AVE./LS–3: 398 PLACENTIA AVE.
SIGNAL ENERGIZED: –
SG# –
SCALE: H: 1"=20' V: N/A

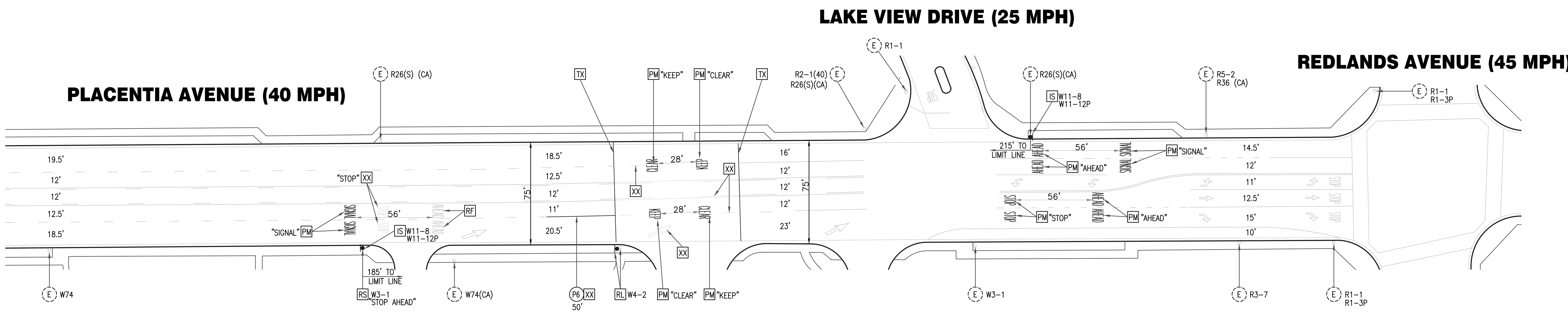
CITY OF PERRIS
REVIEWED BY:
J. Pourkazemi 02/18/2025
CITY ENGINEER

CITY OF PERRIS
TRAFFIC SIGNAL PLAN
FIRE STATION ADDRESS: 333 PLACENTIA AVENUE

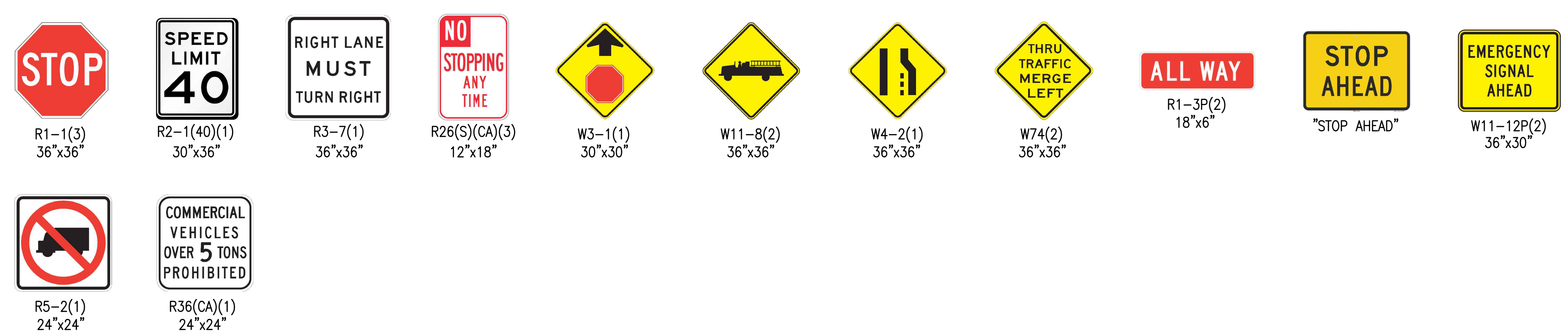
SHEET NO. 2 OF 3
FILE NO: CIP #T–037

SIGNING AND STRIPING NOTES:

E	EXISTING SIGN TO REMAIN.
IS	INSTALL TRAFFIC SIGN, PER CALTRANS STANDARDS.
PM	INSTALL THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STANDARDS.
TX	INSTALL 12" SOLID THERMOPLASTIC MARKING.
RS	REMOVE AND SALVAGE SIGN AND POST.
RF	REFRESH PAINT.
RL	RELOCATE SIGN TO NEAREST STREET LIGHT POST.
XX	SANDBLAST CONFLICTING STRIPING. REMOVE EXISTING CONFLICTING REFLECTIVE PAVEMENT MARKINGS.
P6	PAINT 6" SOLID WHITE LANELINE STRIPE WITH REFLECTORS.



SIGN LEGEND:



SCALE: 1" = 40'

20 10 0 20 40 60

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER CITY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

DIGALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 811 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEAL: REGISTERED PROFESSIONAL ENGINEER — ROBERT KAHN — No. 20285 — Exp. 9/30/25 — CIVIL — STATE OF CALIFORNIA

RK ENGINEERING GROUP INC. — TRAFFIC ENGINEERING • PARKING STUDIES — TRANSPORTATION PLANNING • ENVIRONMENTAL ENGINEERING — www.rkengineer.com

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ROBERT KAHN — R.C.E. No. 20285 — Date: 02/17/25 — Exp. 9/30/25

DATE	NO.		APPR.	DATE

DRAWN BY: MR
DATE: –
DESIGNED BY: JN
DATE: –
CHECKED BY: RK
DATE: –
RECOMMENDED BY:
DATE:

SERVICE ADDRESS:
SIGNAL ENERGIZED:
SG# –
SCALE: H: 1"=40' V: N/A

CITY OF PERRIS
REVIEWED BY:
J. Pourkazemi 02/18/2025
CITY ENGINEER

CITY OF PERRIS

SIGNING AND STRIPING MODIFICATION PLAN

333 PLACENTIA AVENUE

SHEET NO. 3 OF 3

FILE NO: CIP #T-037

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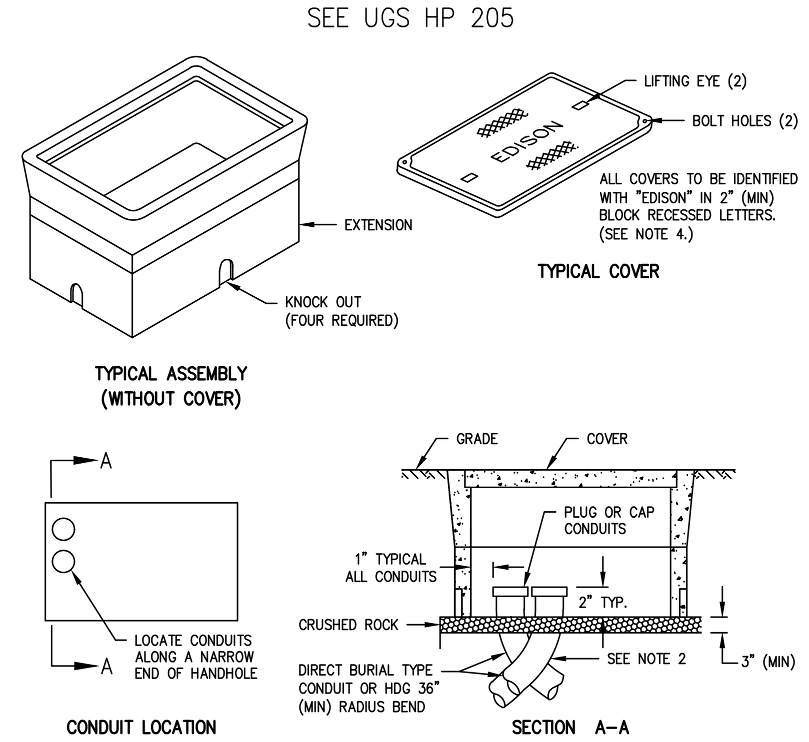
File Name: 03522318_TS Design.dwg Plotted By: mramon Date & Time Plotted: 2/17/2025 8:42 AM

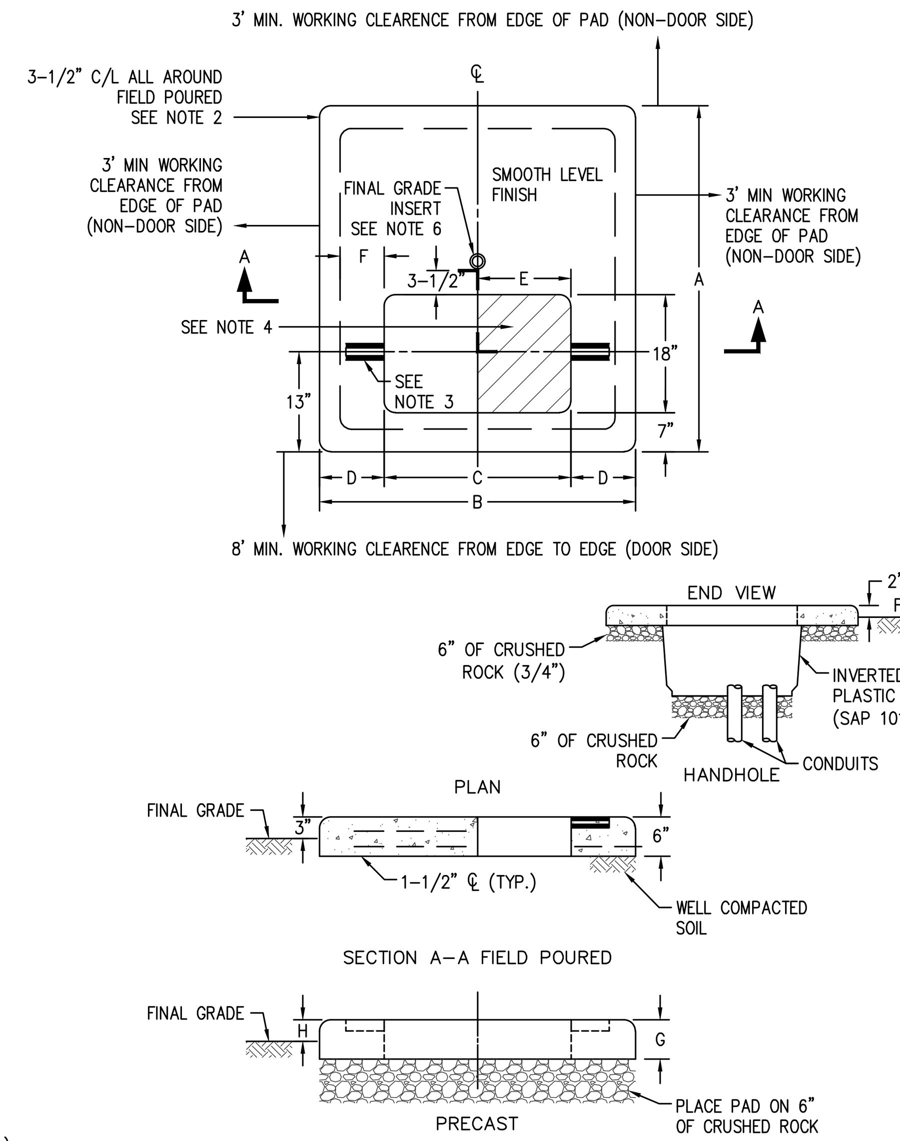
TYPICAL HANDHOLE INSTALLATION
SEE UGS HP 205



NOTE(S):
1. SEE HP 200 FOR DIMENSIONS OF VARIOUS SIZE HANDHOLES AVAILABLE.
2. RADIUS ANGLE MAY BE REDUCED TO LESS THAN 90° PROVIDING THE PROJECTED CENTER LINE OF THE CONDUIT CLEARS HANDHOLE OPENING.
3. TWO HOLD DOWN DEVICES TO BE SUPPLIED WITH EACH HANDHOLE.
4. COVER SHALL BE IDENTIFIED WITH "EDISON" IN MINIMUM 2-INCH LETTERS OR LABELS PERMANENTLY SECURED TO THE LID.
5. FOR MAINTENANCE ON 10-1/2" X 17" CONCRETE HANDHOLES USE SWINGBOLT WITH SAP 10204721.

D75: 03/22/24

PAD FOR SURFACE-MOUNTED TRANSFORMER
48"x 54"
(1ø-25KVA THROUGH 167KVA)
SEE UGS SS 504



Note(s)
1. Concrete to be 3,000 psi (minimum) at 28 days.
2. Reinforcing steel to be no. 4 bars installed in a double net. perimeter bars to be continuous (8 inch minimum lap or weld).
3. Hold-down brackets to be p-3200 series unistrut (or equal).
4. Primary cables must be installed in shaded area of drawing above as far to the right as possible on single phase transformers only. On three-phase transformers primary cables must be installed in the unshaded area of drawing above as far left as possible.
5. See AC 701 for pad-mounted transformer/capacitor grounding requirements and AC 703 for approved grounding materials.
6. 1-inch listing insert to be located at center of gravity on precast pads.
7. See SS 500 for approved manufacturers.
8. The three-phase transformer shall only be used on a pad when four or fewer services are to be installed. A slab box should be used when more than four services will be installed.
9. Use a thin layer of redi-crete (or equivalent) for rodent and weed control or where transformer does not fully cover opening in pad.
10. A 17" x 30" x 15" plastic handhole (sap 10117726) shall be inverted and installed under the cable opening of the pad. This will provide adequate cable slack for operation of the load-break elbows on single phase transformers only.

D33: Rev. 06/08/20

NON-RESIDENTIAL SERVICE PEDESTALS 0-200A, 0-600V
SEE ESR 3 (FIGURE 3-27)

EUSERC NO. 308

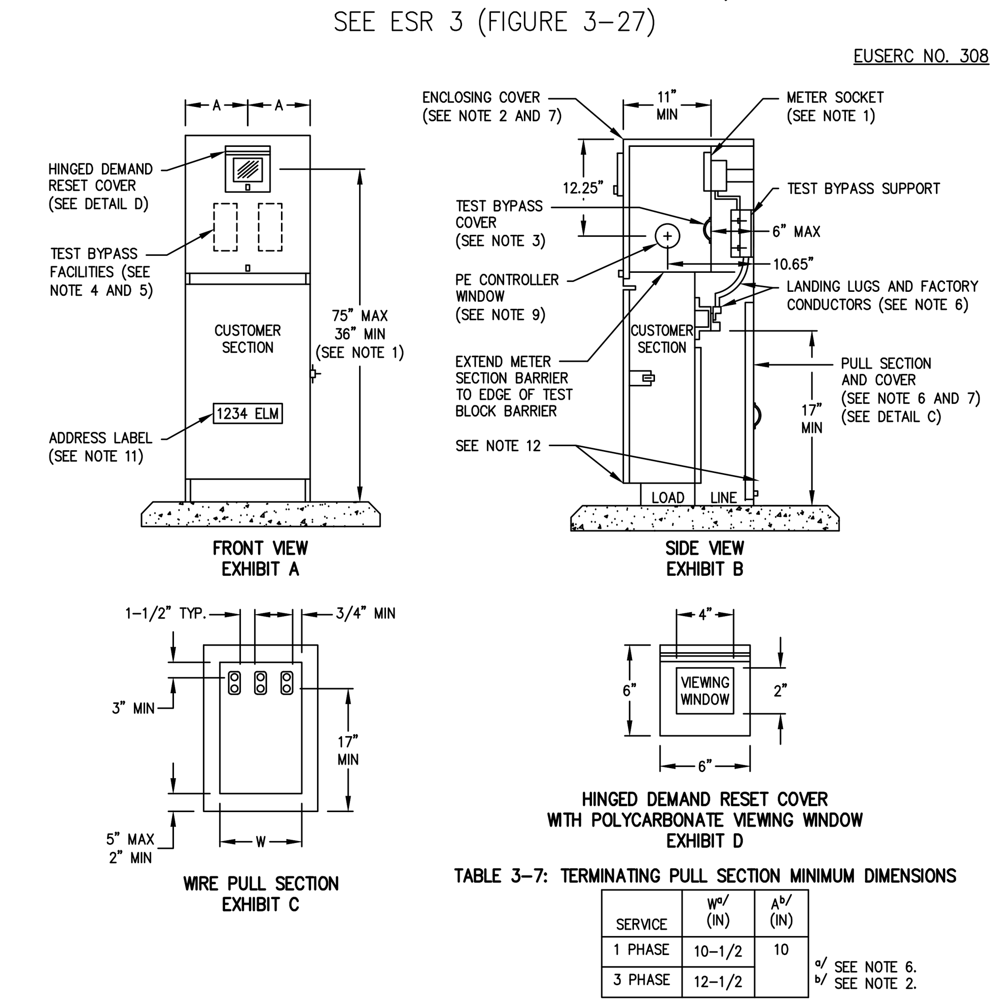


TABLE 3-7: TERMINATING PULL SECTION MINIMUM DIMENSIONS

SERVICE	W a/ (IN)	A b/ (IN)
1 PHASE	10-1/2	10
3 PHASE	12-1/2	

a/ SEE NOTE 6.
b/ SEE NOTE 2.

NOTE(S):
1. THE METER SOCKET SHALL BE RIGIDLY MOUNTED ON A SUPPORT, ATTACHED TO THE METER PANEL, AND PROVIDED WITH A SEALING RING. RINGLESS SOCKETS ARE NOT ACCEPTABLE. METER HEIGHT IS MEASURED FROM THE CENTER OF THE METER SOCKET.
2. THE METER SOCKET SHALL BE ENCLOSED AND THE ENCLOSING COVER SHALL BE AS FOLLOWS:
   - HINGED TO ALLOW THE TOP AND FRONT TO BE ROTATED BACK AS ONE UNIT TO EXPOSE THE METERING COMPARTMENT. THE "A" DIMENSION APPLIES WHEN THE METERING COMPARTMENT SIDE PANELS ARE FIXED AND OBSTRUCT THE METER SIDE CLEARANCE. THE LIFTING FORCE REQUIRED TO OPEN THE COVER SHALL NOT EXCEED 25 POUNDS.
   - EQUIPPED WITH A LIFTING HANDLE.
   - PROVIDED WITH A DEMAND RESET COVER WITH A VIEWING WINDOW (SEE EXHIBIT D). THE RESET COVER SHALL BE SEALABLE AND LOCKABLE WITH A PADLOCK HAVING A 5/16-INCH LOCKSHAFT.
3. TEST-BYPASS COMPARTMENT COVERS SHALL BE SEALABLE AND FITTED WITH A LIFTING HANDLE; COVERS EXCEEDING 16 INCHES IN WIDTH SHALL REQUIRE TWO LIFTING HANDLES.
4. TEST-BYPASS BLOCKS WITH RIGID BARRIERS SHALL BE FURNISHED, INSTALLED, AND WIRED OR BUSSED TO THE METER SOCKET BY THE MANUFACTURER. CONNECTION SEQUENCES SHALL BE LINE-LOAD FROM LEFT TO RIGHT AND CLEARLY IDENTIFIED BY 3/4-INCH MINIMUM BLOCK LETTER LABELING. SEE ESR-5 FOR TEST-BYPASS BLOCK DETAILS.
5. TEST-BYPASS SHALL BE INSTALLED WITH THE FOLLOWING CLEARANCES:
   - THREE INCHES OF VERTICAL CLEARANCE FROM THE UPPER TEST CONNECTOR STUD TO THE UPPER COMPARTMENT ACCESS OPENING AND 3 INCHES FROM THE CENTER OF THE CABLE TERMINAL SCREW TO THE LOWER COMPARTMENT ACCESS OPENING.
   - ONE AND ONE-HALF INCHES OF SIDE CLEARANCE FROM THE RIGID INSULATING BARRIERS TO THE COMPARTMENT SIDES AND ONE INCH TO THE COMPARTMENT ACCESS OPENINGS.
6. THE TERMINATING PULL SECTION REQUIREMENTS ARE AS FOLLOWS:
   - COMPLY WITH THE MINIMUM DIMENSIONS SHOWN IN TABLE 3-7 (THE "W" DIMENSION IS MEASURED BETWEEN THE ACCESS OPENING RETURN FLANGES), ACCEPT A MINIMUM THREE-INCH CONDUIT, AND THE COVER SHALL BE EQUIPPED WITH A LIFTING HANDLE.
   - BE EQUIPPED WITH ALUMINUM-BODIED, PRESSURE-TYPE LUGS, WITH A RANGE OF #6 AWG THROUGH 250 KCMIL, FOR TERMINATION OF THE SERVICE CONDUCTORS. INSULATED CABLE OR BUS SHALL BE INSTALLED BETWEEN THE TERMINATION LUGS AND THE TEST-BYPASS FACILITIES.
   - HAVE A PROTECTIVE METALLIC BARRIER (16-GAUGE MINIMUM) BETWEEN THE PULL SECTION AND THE CUSTOMER DISTRIBUTION SECTION. THERE SHALL BE A 1/4-INCH MINIMUM CLEARANCE BETWEEN THE CUSTOMER SECTION WALL AND THE BARRIER TO PREVENT SCREWS AND BOLTS FROM PROTRUDING INTO THE PULL SECTION.
7. COMPARTMENT COVERS (FOR EXAMPLE, METER COVER, DEMAND RESET COVER, AND PULL SECTION) SHALL BE SEALABLE AND LOCKABLE WITH A PADLOCK HAVING A 5/16-INCH LOCKSHAFT.
8. INTERNAL EQUIPMENT ATTACHED TO THE OUTER WALLS OF THE ENCLOSURE SHALL BE SECURED IN PLACE WITH DEVICES THAT MAY NOT BE LOOSENED FROM THE OUTSIDE. SCREWS OR BOLTS REQUIRING SPECIAL TOOLS FOR INSTALLATION OR REMOVAL ARE NOT ACCEPTABLE.
9. PEDESTALS SERVING BOTH METERED AND UNMETERED LOADS, FOR INSTANCE, TRAFFIC SIGNALS AND STREET LIGHTING, MUST HAVE LANDING LUGS, WITH CUSTOMER WIRE FROM LUGS-TO-BYPASSES (METERED LOAD) AND FROM LUGS-TO-BREAKERS (UNMETERED LOADS). A PHOTOELECTRIC (PE) RECEPTACLE SHALL BE REQUIRED IN THE METER/TEST BYPASS COMPARTMENT FOR THE UNMETERED SERVICE. COMPANY WILL FURNISH AND INSTALL PE CONTROLLER FOR UNMETERED SERVICE.
10. PEDESTAL SHALL BE STRUCTURALLY SUPPORTED WITH ANCHORS ON A CONCRETE PAD.
11. LABELING SHALL CONSIST OF MACHINE-ENGRAVED LAMINATED PHENOLIC (OR EQUIVALENT) PLACARD. THE PLACARD SHALL HAVE ONE-QUARTER OF AN INCH BLACK LETTERS/NUMBERS ON WHITE-COLORED MATERIAL WHICH IS READILY VISIBLE AND MECHANICALLY ATTACHED ON THE EXTERIOR FRONT OF THE PEDESTAL'S METER DOOR PANEL.
12. A 36-INCH FLAT CONCRETE WORKING SPACE WITH A 2% MAXIMUM GRADE IS REQUIRED AT THE METER SECTION AND THE UTILITY/PULL SECTION OF THE PEDESTAL. TRAFFIC LANES SHALL NOT BE CONSIDERED PART OF THE WORKING SPACE. CONTACT SCE PERSONNEL/INSPECTOR PRIOR TO INSTALLATION.

D155: 03/22/24

CONSTRUCTION NOTES:

UNLESS OTHERWISE SPECIFIED ON THE WORKING DRAWING WHICH FORMS A PART OF THE SPECIFICATION, THE CONTRACTOR/DEVELOPER SHALL FURNISH THE FOLLOWING ITEMS AT NO COST TO THE EDISON COMPANY.

SOUTHERN CALIFORNIA EDISON COMPANY HAS ATTEMPTED TO CORRECTLY SHOW ALL EXISTING UTILITIES AND SUBSTRUCTURES IN THE VICINITY OF THE WORK, BUT DOES NOT GUARANTEE THERE ARE NO OTHER SUBSTRUCTURES IN THE AREA. FAILURE OF SCE TO SHOW ALL SUBSTRUCTURES IN THEIR CORRECT LOCATION WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO SUBSTRUCTURES WHETHER SHOWN OR NOT.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. MINIMUM COVER IN STREET OR PARKWAY IS 30" BELOW GUTTER GRADE, UNLESS NOTED OTHERWISE.
   b. MINIMUM COVER ON PRIVATE PROPERTY IS 30" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
   c. CONTRACTOR IS TO FURNISH AND INSTALL APPROVED CONDUIT TO EDISON SPECIFICATIONS PER UGS CD 100.1, 110 AND 120.
   d. FOR THE TYPE OF CONDUIT FOR THIS JOB, SEE UGS CD 110.1.
   e. INSTALL ALL RISERS PER UGS CD 160, 161, 162 AND 170.
   f. CAP ALL MAINLINE CONDUITS PER UGS CD 148 AND SERVICE CONDUITS PER UGS CD 150.
   g. INSTALL BLANK CONDUIT PLUGS IN ALL CONDUITS TERMINATING INTO VAULTS, MANHOLE'S, PMH'S, SOE'S & ALL CAP LOCATIONS, PER UGS CD 180.1 & UGS CD 180.2
   h. INSTALL PULL ROPE IN ALL CONDUIT RUNS. PULL ROPE TO BE AT LEAST 3/8" POLYPROPYLENE ROPE, BRAIDED OR TWISTED. FOR SPECIFICATIONS, APPROVED MAKES, AND SUPPLIERS, SEE UGS GI 040.
   i. ALL CONDUIT MUST BE MANDRELED WITH THE APPROVED MANDREL UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a. THE MINIMUM RADIUS FOR BENDS ARE:
      36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
      48" FOR CONDUITS 4" AND 5" IN DIAMETER
      60" FOR 6" DIAMETER CONDUIT
   b. THE MINIMUM RADIUS FOR ALL SWEEPS OF ALL MAINLINE CONDUITS IS 12'-6" (UNLESS NOTED OTHERWISE).

4. EXCAVATION AND BACKFILL:
   a. WORK AREA SHALL BE CLEARED AND ROUGH GRADED TO WITHIN FOUR INCHES OF FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   b. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA STATE CONSTRUCTION SAFETY ORDERS (WHEN APPLICABLE), EDISON SPECIFICATIONS, AND ALL GOVERNING LOCAL ORDINANCES.
   c. EACH TRENCH TO BE A UNIFORM DEPTH BELOW FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   d. BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EXCAVATIONS AND SHALL INCLUDE CRUSHED ROCK, CONCRETE, AND/OR IMPORTED BACKFILL, WHEN REQUIRED.
   e. BACKFILL WITH A MINIMUM OF ONE SACK PER YARD SAND CEMENT SLURRY AROUND AND OVER VAULTS AND MANHOLES PER UGS GI 030, SECTION 6.4 AND AROUND PMH'S WITHIN ONE FOOT OF FINISHED GRADE, PER UGS SS 590.1.
   f. BACKFILL, PER EDISON SPECIFICATIONS, SHALL IMMEDIATELY FOLLOW CONDUIT OR SUBSTRUCTURE INSTALLATION. AT NO TIME SHALL CONDUIT BE LEFT EXPOSED OVER 24 HOURS.
   g. NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT-BURIED CABLES OR ANY CONDUIT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL CAPABLE OF PASSING THROUGH A ONE-HALF INCH MESH SCREEN SHALL BE CONSIDERED TO BE "ROCK FREE". IF EXISTING BACKFILL DOES NOT PASS THROUGH A 1/2" SCREEN, PLACE IMPORTED SAND 3" BELOW AND 12" ABOVE EDISON CABLES. AFTER THIS POINT, NO ROCKS LARGER THAN 12" DIAMETER ARE PERMITTED.
   h. ALL BACKFILL SHALL BE COMPACTED TO MEET OR EXCEED LOCAL ORDINANCES OR OTHER REQUIREMENTS. IT SHALL BE PLACED IN A MANNER THAT WILL NOT DAMAGE THE CONDUIT OR SUBSTRUCTURE OR ALLOW FUTURE SUBSIDENCE OF THE TRENCH OR STRUCTURES.

5. PAVING:
   REPAVING, WHERE REQUIRED, SHALL BE PLACED IN SUCH A MANNER THAT INTERFERENCE WITH TRAFFIC, INCLUDING PEDESTRIAN TRAFFIC, WILL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL ESTABLISH A PROGRAM OF REPAVING ACCEPTABLE TO THE MUNICIPALITY, COUNTY, OR OTHER AUTHORITY HAVING JURISDICTION AND WHICH IS ACCEPTABLE TO EDISON.

6. STRUCTURES:
   a. ALL SUBSTRUCTURES SHALL BE CONSTRUCTED OR INSTALLED TO EDISON SPECIFICATIONS.
   b. INSTALL PROTECTION BARRIERS PER UGS MS 830 WHEN REQUIRED IN AREAS EXPOSED TO TRAFFIC, PER EDISON INSPECTOR.
   c. ALL CONDUIT LINES AND CONCRETE FLOORED SUBSTRUCTURES SHALL BE WATER TIGHT.
   d. ALL GROUNDING MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

7. RETAINING WALLS:
   WHEN REQUIRED, RETAINING WALLS SHALL BE PROVIDED BY THE DEVELOPER. WALLS ARE REQUIRED WHEREVER GRADE RISES MORE THAN 18 INCHES ABOVE THE STRUCTURE OR 24" ABOVE THE PAD SURFACE AT A DISTANCE OF 5 FEET FROM THE SAME, OR IN AREAS SUBJECT TO EROSION. DESIGN AND INSTALLATION MUST COMPLY WITH LOCAL BUILDING ORDINANCES. REFER TO EDISON INSPECTOR FOR TYPICAL SPACE REQUIREMENTS.

8. PERMITS:
   ALL PERMITS NECESSARY FOR EXCAVATION SHALL BE PROVIDED BY THE CONTRACTOR/DEVELOPER.

9. ACCESS:
   HEAVY TRUCK ACCESS SHALL BE MAINTAINED TO EQUIPMENT LOCATIONS. STRUCTURES MUST BE CLEAR OF ALL APPURTENANCES THAT WOULD OBSTRUCT THE LOADING OR UNLOADING OF EQUIPMENT.

10. SERVICES:
   a. METERS AND SERVICES SHALL COMPLY WITH EDISON ELECTRICAL SERVICES REQUIREMENTS.
   b. WIRING MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES AND APPROVED BY LOCAL INSPECTION AUTHORITIES.

11. LOCATION:
   a. THE LOCATION OF EXCAVATIONS AND STRUCTURES FOR EDISON SHALL BE AS SHOWN ON THE WORKING DRAWING. NO DEVIATION FROM THE PLANNED LOCATIONS WILL BE PERMITTED UNLESS APPROVED BY THE EDISON INSPECTOR. SEE UGS GI 001, SECTION 2.2.
   b. ACTUAL LOCATION OF OBSTRUCTIONS, STORM DRAINS, AND/OR OTHER FOREIGN UTILITIES TO BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE UGS GI 001, SECTION 2.3.

12. CONTRACTOR IS TO VERIFY LOCATION AND WIDTHS OF ALL SIDEWALKS AND DRIVEWAYS PRIOR TO STREET LIGHT INSTALLATION. SEE UGS CD 175.1, UGS CD 175.2 AND UGS CD 175.3.

13. SURVEY:
   SURVEYING OF STREET IMPROVEMENTS, PROPERTY CORNERS, LOT LINES, FINISHED GRADE, ETC., NECESSARY FOR THE INSTALLATION OF UNDERGROUND FACILITIES MUST BE COMPLETED AND MARKERS OR STAKES PLACED PRIOR TO THE START OF THE INSTALLATION. IN ADDITION, DEVELOPER SHALL MAINTAIN THE MARKERS DURING THE INSTALLATION AND INSPECTION BY EDISON. GRADE AND PROPERTY LINE STAKES MUST SHOW ANY OFFSET MEASUREMENTS.

14. COORDINATION AND SUPERVISION:
   THE DEVELOPER SHALL PROVIDE SUPERVISION OVER AND COORDINATION AMONG THE VARIOUS CONTRACTORS WORKING WITHIN THE DEVELOPMENT IN ORDER TO PREVENT DAMAGE TO EDISON FACILITIES. HE IS RESPONSIBLE FOR THE COST OF REPAIRS, REPLACEMENT, RELOCATION, OR OTHER CORRECTIONS TO EDISON FACILITIES MADE NECESSARY BY HIS FAILURE TO PROVIDE SUPERVISION OR TO OTHERWISE COMPLY WITH THESE SPECIFICATIONS.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
   THE DRAWING PREPARED FOR THIS JOB MAY ALSO COVER THE FACILITIES TO BE INSTALLED FOR THE TELEPHONE COMPANY AND/OR OTHER UTILITY. ANY QUESTIONS CONCERNING DETAILS OF THEIR INSTALLATION SHOULD BE REFERRED TO THE COMPANY CONCERNED.

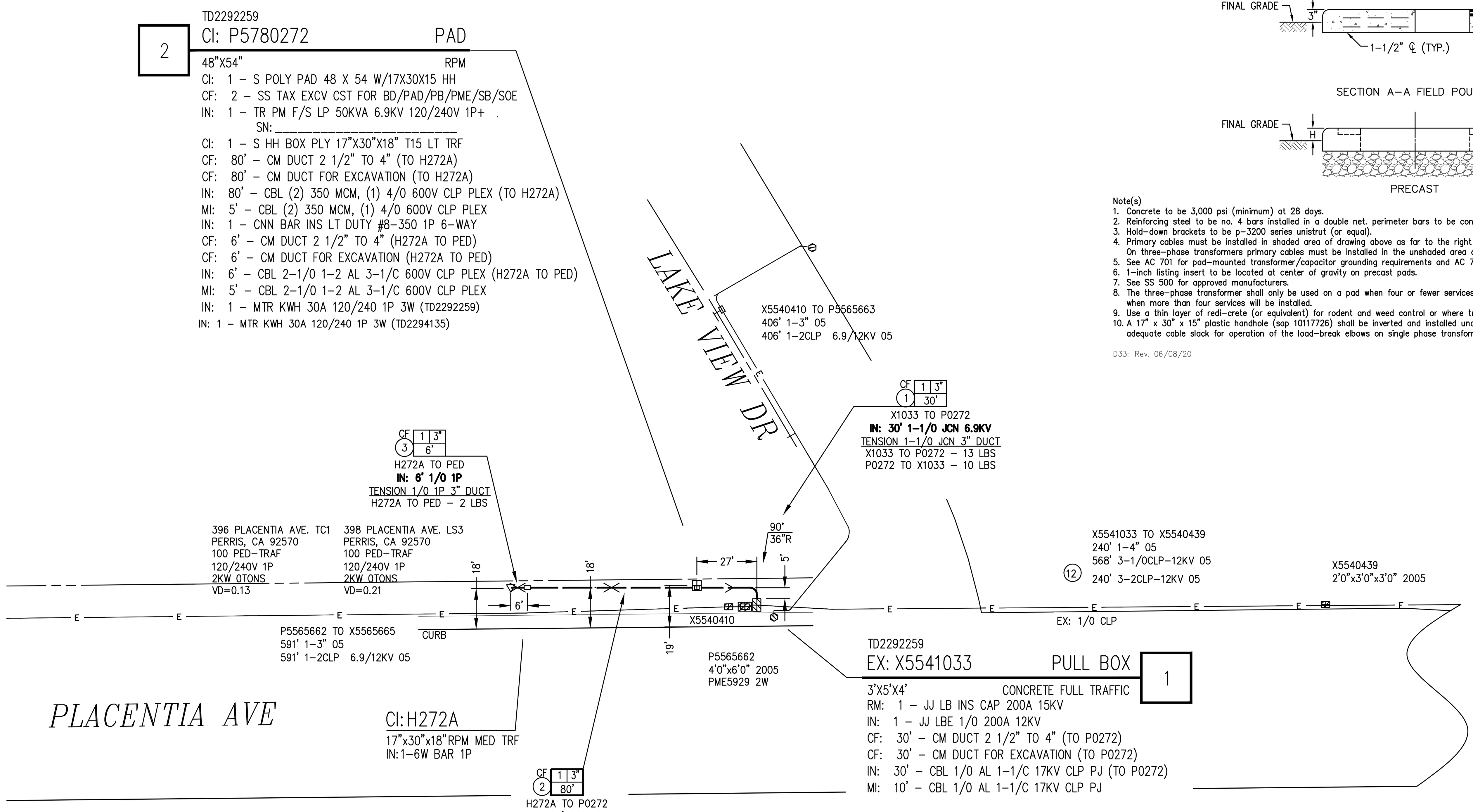
16. OWNERSHIP:
   DEVELOPER IS TO DEED TO THE EDISON COMPANY ALL STRUCTURES SHOWN HEREON EXCEPT THOSE SHOWN AS CUSTOMER OWNED.

17. WARRANTY:
   APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANT'S EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY COMPANY DURING THIS WARRANTY PERIOD.

18. INSPECTION:
   INSPECTION IS REQUIRED DURING THE CONSTRUCTION PERIOD. A 48 HOUR ADVANCE NOTICE OF INTENT TO START CONSTRUCTION IS REQUIRED FROM THE CONTRACTOR TO THE SOUTHERN CALIFORNIA EDISON COMPANY. STANDARDS OF EDISON CONSTRUCTION REQUIREMENTS ARE AVAILABLE UPON REQUEST.

DUCT AND STRUCTURE INSPECTOR: TBD PHONE: UGINSPECTIONS77@SCE.COM
CABLING CONSTRUCTION COORDINATOR: PHONE:

D05: 03/22/24



TIE-IN MADE THROUGH SIDE WALL OF STRUCTURE
(VAULT, MANHOLE, PME, SOE/CST, BURD, SLAB BOX, PULL BOX, PMH)
THE CUSTOMER IS RESPONSIBLE TO TRENCH TO THE STRUCTURE ENTRANCE POINT AND BRING THE CONDUIT TO WITHIN 5' OF THE STRUCTURE BEING ENTERED. THE CUSTOMER IS TO PROVIDE SLIP COUPLING AND CONDUIT.
D09: 03/22/24

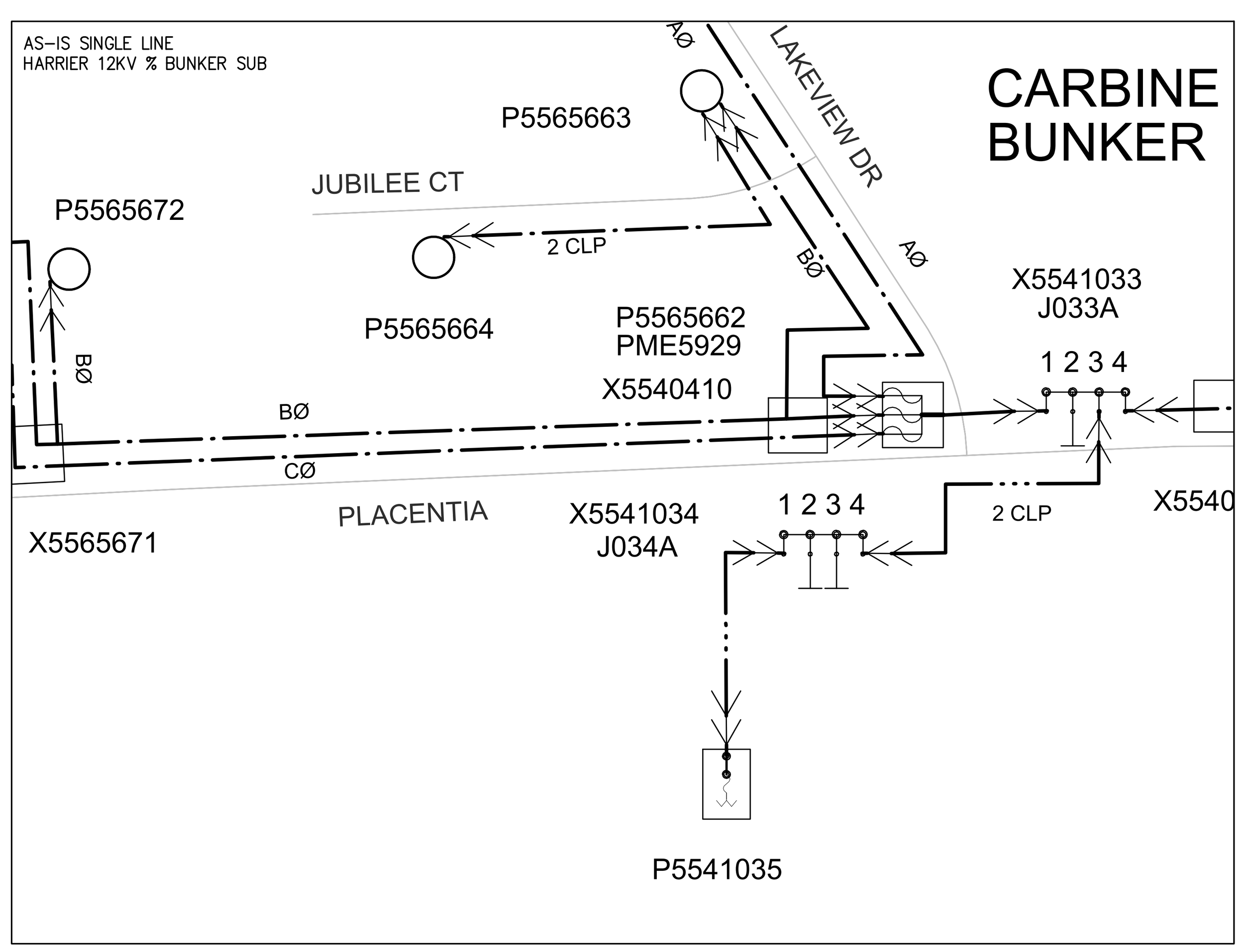
WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.
D13: 03/22/24

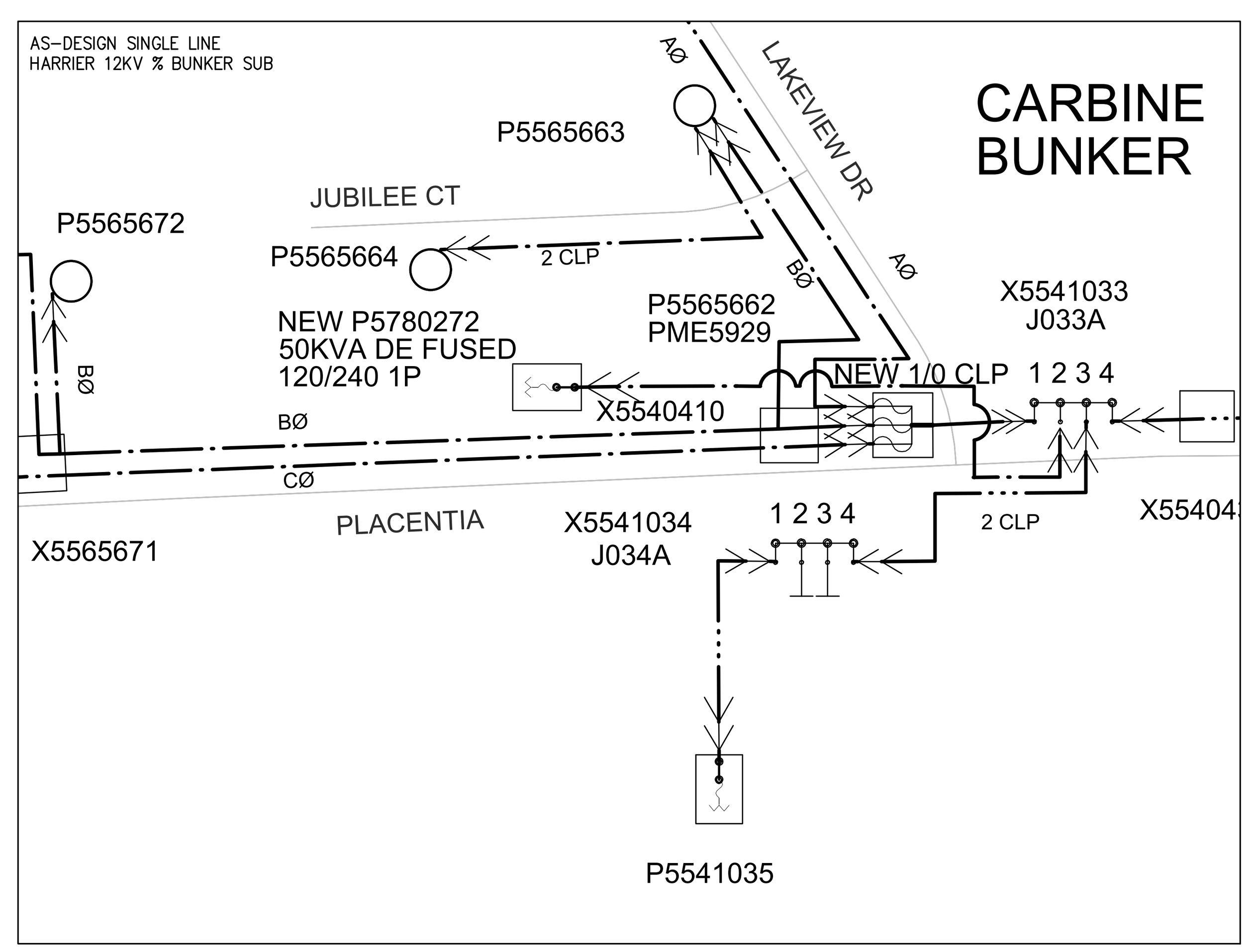
NOTE:
ALL ELECTRICAL DUCTS AND STRUCTURES WILL CONFORM TO GENERAL ORDER #128 (RULES FOR CONSTRUCTION OF UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION PRESCRIBED BY THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA, JANUARY 2006).
D06: 03/22/24

CONNECTING TO EXISTING SCE STRUCTURES

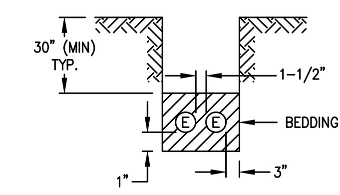
- PER SCE REQUIREMENTS, CUSTOMERS ARE NOT ALLOWED TO ENTER, INTERCEPT OR TIE-IN TO EXISTING SCE FACILITIES; E.G. STRUCTURES, EQUIPMENT, MULTI-CONDUIT RUNS/BANKS, OR CONDUCTORS. THESE FACILITIES MAY BE ENERGIZED AND THE WORK WILL ONLY BE PERFORMED BY SCE. CONTACT THE APPROPRIATE SCE INSPECTOR TO SCHEDULE AN APPOINTMENT. CUSTOMERS MAY CONNECT TO AN EXISTING CONDUIT STUB WITHOUT A SCE INSPECTOR PRESENT.
- MULTI-CONDUIT RUNS/BANKS ARE RUNS OF CONDUIT IN CLOSE PROXIMITY TO EACH OTHER AND OTHER SCE FACILITIES. A CONDUIT STUB IS A SINGLE EMPTY CONDUIT STUB THAT IS NOT IN CLOSE PROXIMITY TO OTHER SCE OWNED FACILITIES. REFER TO THE WORK ORDER MAP FOR DETAILS.
- PER CPUC/SCE'S RULE 15 B.1.A AND RULE 16 D.1.A., THE CUSTOMER WILL PROVIDE ALL NECESSARY EXCAVATIONS (WITH THE EXCEPTION OF EXCAVATION UNDER PADS AND PRIMARY SPLICE BOXES), MATERIAL (INCLUDING CONDUIT AND STRUCTURES) AND ENCASEMENT, TO BE UTILIZED IN THE INTERCEPT/TIE-IN PROCESS.
- THE CUSTOMER MUST ADHERE TO ALL APPLICABLE CAL-OSHA, LOCAL, CITY, STATE AND FEDERAL REGULATIONS, (INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SHORING AND TRAFFIC CONTROL IN PLACE TO PERFORM THE INTERCEPT/TIE-IN WORK BY SCE'S UNDERGROUND CIVIL CONTRACTOR(S)).
- INTERCEPT/TIE-IN WORK MUST BE COORDINATED WITH SCE'S CIVIL CONTRACTORS THROUGH THE DIVISION INSPECTOR/P-SPEC TO LIMIT EXPOSURE OF EXCAVATION(S). CUSTOMER IS RESPONSIBLE FOR SECURING EXCAVATION(S).

D08: 03/22/24





TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



DIRECT BURIAL
SIMILAR CONSTRUCTION FOR FEWER CONDUIT
2 CONDUITS MAX.
D81: 03/22/24

CUSTOMER NOTES:
ALL NEW PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE SCE INSPECTOR. ANY DUCT AND/OR STRUCTURES INSTALLED PRIOR TO THIS MEETING WILL BE SUBJECT TO CHANGE. TO SCHEDULE THE SCE INSPECTOR PLEASE CONTACT UGINSPECTIONS77@SCE.COM

1. SCHEDULE 40 PVC IS THE MINIMUM REQUIREMENT FOR CONDUIT INSTALLS
2. SCHEDULE 80 PVC IS REQUIRED FOR ALL EXPOSED CONDUIT INSTALLS
3. TRENCH DEPTH IS BASED UPON SIZE OF BEND (DO NOT CUT THE CONDUIT)
   3.1. 3" DUCT = 36" BENDS - 45" TRENCH DEPTH AT MINIMUM
   3.2. 4" & 5" DUCT = 48" BENDS - 54" TRENCH DEPTH AT MINIMUM
   3.3. USE 12'-6" RADIUS SWEEPS ON THREE-PHASE SECONDARY AND SERVICE RUNS WHERE 600V, 700 CLP COULD BE INSTALLED. USE BENDS WHEN ENTERING PULL SECTION OF PANELS AND PADS, OR WHEN ENTERING AT THE BASE OF RISER POLES.
4. THE TRENCH IS MEASURED FROM FINISHED GRADE TO BOTTOM OF TRENCH
5. ALL CONDUIT RUNS REQUIRE PULL ROPE OR POLYESTER PULL TAPE
   5.1. 3" DUCT RUNS REQUIRE 3/4" PULL TAPE W/ 2,500LB TENSILE BREAKING STRENGTH
   5.2. 4" & 5" DUCT RUNS REQUIRE 3/8" PULL ROPE W/ 3,000LB TENSILE BREAKING STRENGTH
6. ALL DUCT RUNS MUST BE INSPECTED BEFORE BACKFILLING
7. ALL DUCT RUNS MUST BE MANDRELLED AFTER BACKFILL
   7.1. CUSTOMER/CONTRACTOR MUST BE PRESENT FOR MANDREL
   7.2. MANDREL MUST BE PROVIDED BY CUSTOMER/CONTRACTOR

PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED UG	Y
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: ENCROACHMENT	
OUTAGE REQUIRED	Y
OUTAGE DATE: N/A TIME:	
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	Y
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	Y
CIRCUIT MAP CHANGE REQ'D (TD 203)	Y
DIG ALERT APP	N
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	
UTILIQUEST NOTIFIED	
FAA MARKING REQ'D	N
FAA TYPE: N/A	
STANDARD ADHERENCE: 3 Q/ 2024 Y	

D124: 02/23/24

UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING
TWO WORKING DAYS BEFORE YOU DIG
D16: 03/22/24

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

FINAL DESIGN
APPROVED FOR CONSTRUCTION

SCALE: 1" = 40'
0 40 80

DISTRICT 77 - MENIFEE	PROJ. MGR. WILLIAMS, DOUGLAS PHONE 951-813-9210	PLANNER WILLIAMS, DOUGLAS PHONE 951-813-9210	DESIGNER SINGH CORRAL, JENNIFER
PROJECT NO. 2863573 / SERVICE REQUEST 3745575	MSR NO. SEE ABOVE	PRODUCT-1 2292259-LINE EXTENSION	ASSOC DESGN
CIRCUIT / VOLTAGE HARRIER 12KV	GPS	PRODUCT-2 2294135-METER ONLY (FUNCTION WORK) NEW	ASSOC DESGN
SUB / PG NO. BUNKER SUB (B2)	CIRCUIT CODE 08086	PRODUCT-3	ASSOC DESGN
INVENTORY MAP 604-1705-5	J.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) BRAD BROPHY (951) 610-5842 396 PLACENTIA AVE PERRIS CA 92570	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #

Southern California Edison Company

SHEET 1 OF 1

DESIGN\DRWG NO. 1753971_0.01