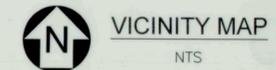
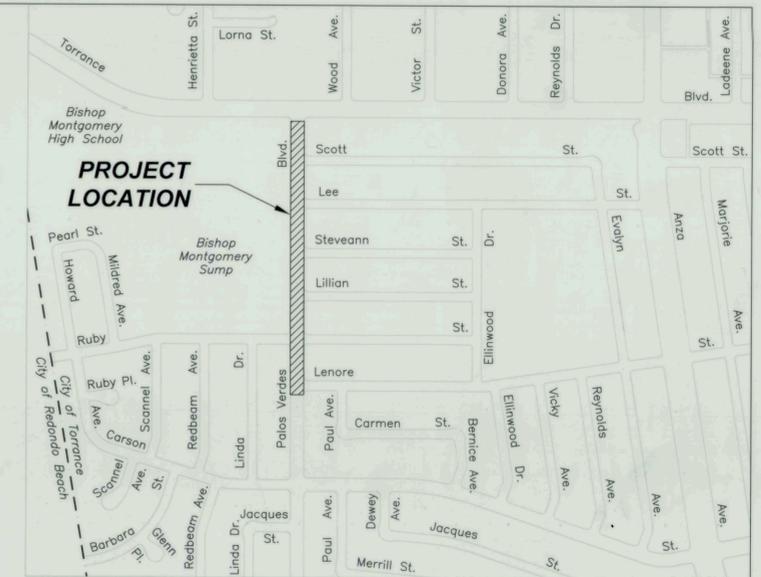


GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS, INC., HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS, THE TORRANCE STANDARDS, AND TO THE SATISFACTION OF THE COMMUNITY DEVELOPMENT OR PUBLIC WORKS DIRECTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLAN. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR. ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS AND CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF PRIVATE FACILITIES WITHIN THE AREA OF CONSTRUCTION AT LEAST 2 WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- OVERHEAD UTILITY LINE CAUTION: REVIEW APPROVED CONSTRUCTION PLAN. IF CONSTRUCTION REQUIRES WORKERS AND/OR EQUIPMENT TO BE WITHIN 6 FEET OR CRANES OR HOISTING DEVICES TO BE WITHIN 10 FEET OF OVERHEAD ELECTRIC/UTILITY LINES, CALL SOUTHERN CALIFORNIA EDISON CO. AT 310-783-9339.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY BEFORE COMMENCING WORK. TRAFFIC CONTROL WITHIN PUBLIC STREET RIGHTS OF WAY SHALL BE IN CONFORMANCE WITH THE "CITY OF TORRANCE TRAFFIC CONTROL STANDARDS" AND "CA MUTCD" LATEST EDITION. THE CONTRACTOR SHALL PROVIDE A 24-HOUR TELEPHONE NUMBER FOR EMERGENCY REPAIRS TO TRAFFIC CONTROL AND PAVEMENT MARKINGS.
- PRIOR TO COMMENCEMENT OF WORK, ALL SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE LOCATED AND TIED OUT. ALL CENTERLINE MONUMENTS OR TIES LOST OR DESTROYED BY THIS WORK SHALL BE REPLACED EITHER BY A LICENSED SURVEYOR OR A CIVIL ENGINEER REGISTERED PRIOR TO JANUARY 1, 1982 AND NEW TIE SHEETS PROVIDED. METHOD OF ESTABLISHMENT SHALL BE STATED ON THE TIE SHEET.
- GRADE SHEETS PREPARED AND STAMPED BY A LICENSED ENGINEER OR SURVEYOR SHALL BE DELIVERED TO THE INSPECTOR 24 HRS PRIOR TO COMMENCEMENT OF WORK. (NOT USED)
- CRUSHED MISCELLANEOUS BASE (CMB) PER SECTION 200-2.4 OF THE STANDARD SPECIFICATIONS SHALL BE USED AS BASE MATERIAL UNDER SIDEWALK, CURBS, GUTTERS, CROSS GUTTERS, BUS PADS, DRIVEWAY APRONS AND PAVEMENT FOR ALL STREETS AND ALLEYS.
- BASE FOR A RESIDENTIAL DRIVEWAY MAY BE OMITTED ON SANDY SOILS AND SHALL BE 4" THICK ON OTHER SOILS. SANDY SOILS SHALL BE DETERMINED BY A MINIMUM SE OF 30 PER SAND EQUIVALENT TEST AS PER CALIFORNIA TEST 217 OR ASTM D2419 AS CALLED FOR IN SECTION 200-2 OF THE STANDARD SPECIFICATIONS. (NOT USED)
- X" DIMENSION SHOWN ON SPPWC STANDARD 110 SHALL BE 3 FEET UNLESS OTHERWISE CALLED FOR ON THE PLAN OR IN THE SPECIFICATIONS. (NOT USED)
- WHEN THERE IS MORE THAN ONE DRIVEWAY APRON ON THE SAME FRONTAGE OF A LOT, THE MINIMUM LENGTH OF FULL HEIGHT CURB BETWEEN THESE DRIVEWAYS SHALL BE 20 FEET. (NOT USED)
- FOR A NEW ASPHALT CONCRETE (AC) SECTION BETWEEN 3" AND 4" THICK, THE CONTRACTOR SHALL CONSTRUCT ONE LIFT OF C2-AR4000 (C2-PG-64-10) OVER BASE. FOR A NEW AC SECTION 5" THICK, THE CONTRACTOR SHALL CONSTRUCT ONE 2" THICK LIFT OF C2-AR4000 (C2-PG-64-10) OVER ONE 3" THICK LIFT OF B-AR4000 (B-PG-64-10) OVER BASE. FOR A NEW AC SECTION THICKER THAN 5" AND PAVEMENT OVERLAYS REFER TO CONSTRUCTION NOTES AND/OR PLANS. THE MAXIMUM THICKNESS OF EACH LIFT SHALL BE 4". INSTALLATION OF THE FINAL COURSE SHALL NOT TAKE PLACE UNTIL ALL UNDERGROUND UTILITY TRENCHING HAS BEEN COMPLETED AND APPROVAL TO PROCEED HAS BEEN GRANTED BY THE PUBLIC WORKS INSPECTOR OR ENGINEER.
- DURING NON-CONSTRUCTION HOURS, ALL EXCAVATIONS MUST BE APPROPRIATELY SHORED AND PLATED OR BACKFILLED, EXCEPT BORE PITS WHICH SHALL BE SECURED WITH K-RAIL AND 6' HIGH CHAIN LINK FENCE PANELS SECURED IN PLACE TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR OR ENGINEER. PLATES SHALL BE TACK WELDED, PINNED AND/OR SECURED IN PLACE BY ANOTHER METHOD APPROVED BY THE INSPECTOR OR ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT 310-781-6900 PRIOR TO TRIMMING, REMOVING OR RELOCATING ANY EXISTING STREET TREE.
- UNLESS OTHERWISE SHOWN, ALL TRAFFIC SIGNS SHALL BE RELOCATED OR REMOVED BY THE CONTRACTOR.
- IF STREET TREES ARE REQUIRED IN THE PARKWAY, NEWLY INSTALLED TREES SHALL BE INSTALLED PER CITY OF TORRANCE STANDARD T401 AND TO THE SATISFACTION OF THE STREETScape MANAGER. CONTACT THE PUBLIC WORKS DEPARTMENT AT 310-781-6900 FOR TYPE(S), SIZE(S) AND LOCATION(S) OF TREES. (NOT USED)
- PLANTED AND IRRIGATED PARKWAY(S) (IF REQUIRED) SHALL HAVE MATERIALS AND PLANTS APPROVED BY THE STREETScape MANAGER PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL MAKE AVAILABLE FOR THE INSPECTOR'S REVIEW, ON A DAILY BASIS, AS-BUILT DRAWINGS FOR WORK PERFORMED UP TO AND INCLUDING THE PREVIOUS DAY'S ACTIVITIES. WORK SHALL NOT BE CONSIDERED AS COMPLETE UNTIL AS-BUILT DRAWINGS ARE SUBMITTED TO AND ACCEPTED BY THE COMMUNITY DEVELOPMENT OR PUBLIC WORKS DIRECTOR.

CITY OF TORRANCE CONSTRUCTION PLANS FOR PALOS VERDES BOULEVARD UNDERGROUND STREET LIGHTING INSTALLATION

(TORRANCE BOULEVARD TO LENORE STREET)



LEGEND

- NEW UNDERGROUND SERVICED STREET LIGHT POLE AND LUMINAIRE
- WOOD POWER POLE TO BE REMOVED (BY SCE-FUTURE)
- STREET LIGHT ON WOOD POLE TO BE REMOVED (BY SCE-FUTURE)
- TRAFFIC SIGNAL POLE WITH SAFETY LIGHT
- TRAFFIC SIGNAL POLE
- PROPOSED MULTIPLE LIGHTING CONDUIT, SCHEDULE 80 PVC
- LIGHTING SERVICE ENCLOSURE
- PROPOSED PULL BOX (#6)
- PROPOSED PULL BOX (#5)
- A-x CIRCUIT NUMBER

UTILITY CONTACTS

COMPANY	CONTACT	TITLE	PHONE
AT&T COMPANY	JOHN SCHLOSSER	OSP ENGINEER	(310) 515-4099
CAL WATER SERVICE COMPANY	RONALD SORENSON	WATER RESOURCES MANAGER	(310) 257-1487
EXXON MOBILE PIPELINE	TERI SHINDE	RIGHT OF WAY COORDINATOR	(310) 212-1794
LOS ANGELES DEPT. OF PUBLIC WORKS	MARISSA MORELOS	PRINCIPLE CIVIL ENGINEERING ASST.	(626) 300-3370
SOUTHERN CALIFORNIA EDISON	KIM GURILE	PROGRAM ANALYST	(714) 796-9932
THE GAS COMPANY	GUILLE尔MO TEJEDA	LEAD PLANNING ASSOCIATE	(310) 687-2014
TIME WARNER CABLE	CARY HANSON	CONSTRUCTION MANAGER	(424) 212-6961
VERIZON	ALBERT ALEMAN	MANAGER NETWORK ENGINEERING	(760) 365-1823

STANDARD PLANS

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)
(2009 EDITION AND REVISIONS)

430-1 CONCRETE LIGHTING STANDARD TYPE C-1

ABBREVIATIONS

C/L	CENTERLINE
CI	CAST IRON
DWY	DRIVEWAY
G	GAS
RCP	REINFORCED CONCRETE PIPE
SW	SEWER
T	TELEPHONE
TS	TRAFFIC SIGNAL
TV	TELEVISION
VCP	VITRIFIED CLAY PIPE
W	WATER

SHEET INDEX

SHEET NO.	PLAN NO.	DESCRIPTION
1	SL-2015-001	TITLE SHEET
2	SL-2015-001	STREET LIGHTING PLAN

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.



**Know what's below.
Call before you dig.**
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV	DATE	BY	CHECKED	DESCRIPTION

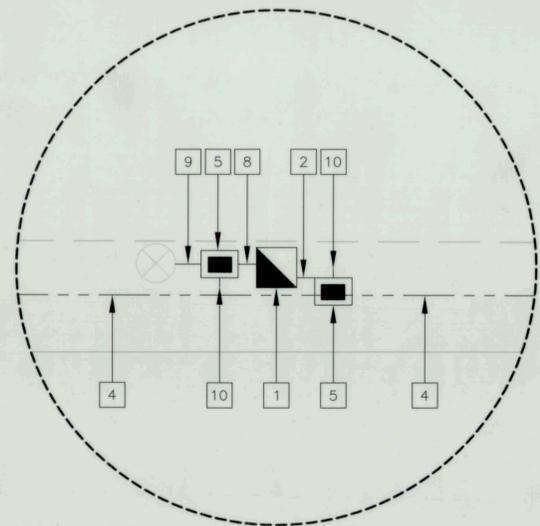
PALOS VERDES BOULEVARD
UNDERGROUND STREET LIGHTING INSTALLATION
(TORRANCE BOULEVARD TO LENORE STREET)

TITLE SHEET

DESIGNED BY: WK	DRAWN BY: WK
PROJECT ENGINEER: <i>William Kamimura</i> WILLIAM KAMIMURA	
PROJECT MANAGER: <i>Ted Semaan</i> TED SEMAAN	

**CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT**

APPROVED BY: <i>J. B.</i> CRAIG BILEZERIAN, PE CITY ENGINEER R.C.E. NO. 55339 (EXP. 12/31/2016)	DATE: 11/6/2015	SHEET 1 OF 2	SPECIFICATION NO. B2015-38
		SCALE: 1" = 40'	
		SUPPLEMENTAL PLAN NO. N/A	
		PLAN NO. SL-2015-001	



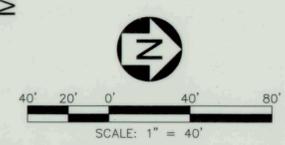
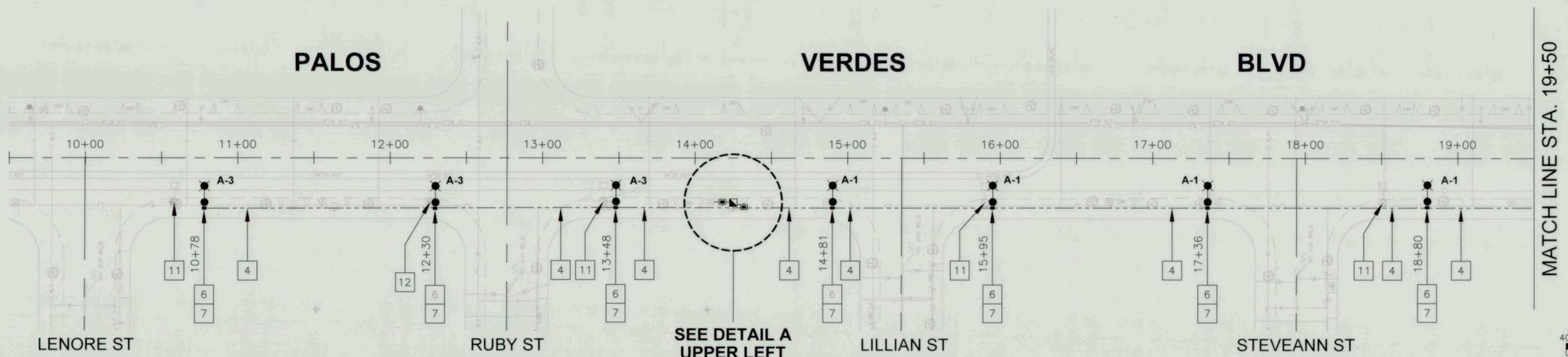
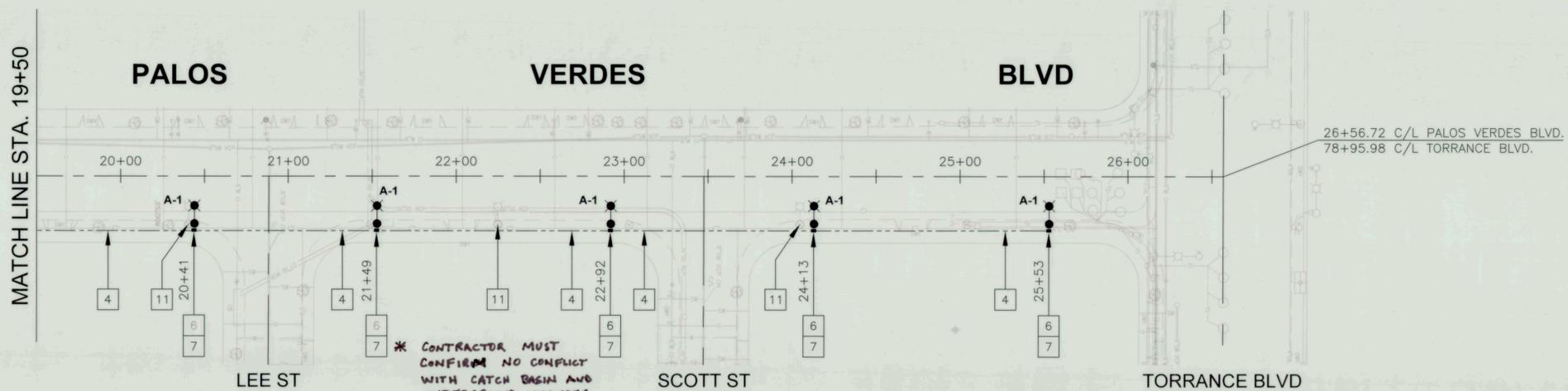
DETAIL A

CONSTRUCTION NOTES

- 1- INSTALL AND GROUND 120/240V TYPE III-BF LIGHTING SERVICE ENCLOSURE WITH TYPE V PEC, CONTACTOR (DP) AND TEST SWITCH AND 4-20 AMP LIGHTING BREAKERS. STREET LIGHTING SHALL BE 120V METERED. MAKE ALL NECESSARY CONNECTIONS FOR A FULLY OPERATIONAL STREET LIGHTING SYSTEM.
- 2- FURNISH AND INSTALL 4" CONDUIT WITH 8#6 AND 1#6 GROUND CONDUCTORS.
- 3- (NOT USED)
- 4- FURNISH AND INSTALL 2" CONDUIT WITH 2#6 AND 1#6 GROUND CONDUCTORS.
- 5- FURNISH AND INSTALL #6 PULL BOX.
- 6- FURNISH AND INSTALL #5 PULL BOX.
- 7- INSTALL STANDARD AMERON 1C1-28 CONCRETE STREET LIGHT POLE 18 INCHES FROM CURB FACE TO FACE OF POLE WITH 1AP8 8 FOOT MAST ARM AND NAVION LED, MODEL NVN-AE-02-E-U-T3-10K-4-AP. MAKE ALL CONNECTIONS NECESSARY FOR A FULLY OPERATIONAL STREET LIGHTING SYSTEM. CONSTRUCT FOUNDATION PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION STANDARD PLAN 430-1.
- 8- FURNISH AND INSTALL 3" CONDUIT.
- 9- FURNISH AND INSTALL 3" CONDUIT WITH RISER.
- 10- FURNISH AND INSTALL 3" SWEEP WITH CAP.
- 11- REMOVE EXISTING LUMINAIRE AND MAST ARM FROM WOOD POWER POLE (BY SCE-FUTURE).
- 12- REMOVE EXISTING TREE AND ROOT PRUNE

LEGEND

- NEW UNDERGROUND SERVICED STREET LIGHT POLE AND LUMINAIRE
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811

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REVISIONS				
REV	DATE	BY	CHECKED	DESCRIPTION

PALOS VERDES BOULEVARD
UNDERGROUND STREET LIGHTING INSTALLATION
(TORRANCE BOULEVARD TO LENORE STREET)

STREET LIGHTING PLAN

DESIGNED BY: WK DRAWN BY: WK

PROJECT ENGINEER:
William Kammura
WILLIAM KAMMURA

PROJECT MANAGER:
Ted Semman
TED SEMMAN

APPROVED BY:
Craig Bilezerian
CRAIG BILEZERIAN, PE
CITY ENGINEER
R.C.E. NO. 55339 (EXP. 12/31/2016)

DATE: 11/6/2015

**CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT**

SHEET **2** OF **2**

SCALE: 1" = 40' SPECIFICATION NO. **B2015-38**

SUPPLEMENTAL PLAN NO. **N/A**

PLAN NO. **SL-2015-001**

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