

BERMUDA AVENUE COASTAL ACCESS REPLACEMENT

CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SD&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SD&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E., 69 KV & HIGHER)
- EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 402-UTILITIES.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- ALL ADVANCE METERING INFRASTRUCTURE (AM) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SHEET INDEX

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3	C-1	BERMUDA AVE	SUNSET CLIFFS BLVD TO PACIFIC OCEAN
4	S-1	BERMUDA AVE	SUNSET CLIFFS BLVD TO PACIFIC OCEAN
5	S-2	ELEVATION DETAILS	

WORK TO BE DONE

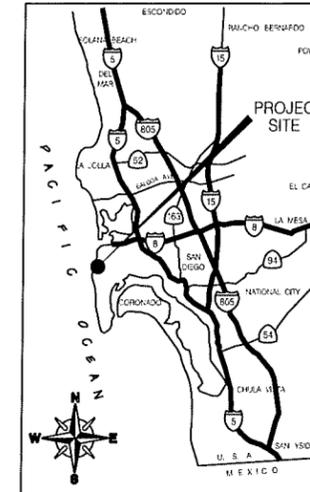
CONSTRUCTION OF BERMUDA AVENUE COASTAL ACCESS REPLACEMENT CONSISTS OF REPLACING THE EXISTING ACCESS STAIRWAY THAT HAS FAILED. THIS PLAN ALSO INCLUDES THE NECESSARY DEMOLITION IN THE AREA AS WELL AS SIDEWALK IMPROVEMENTS.

IMPROVEMENTS
SIDEWALK

LEGEND

REFERENCE
SDG-155

SYMBOL



VICINITY MAP
NOT TO SCALE

DISCIPLINE CODE

G GENERAL
D DEMOLITION
C CIVIL
S STRUCTURAL

CONSTRUCTION STORM WATER PROTECTION NOTES

- TOTAL SITE DISTURBANCE AREA (ACRES) 0.02 AC
HYDROLOGIC UNIT/ WATERSHED PUEBLO SAN DIEGO
HYDROLOGIC SUBAREA NAME & NO. UNDEFINED (908J0)
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
 WPCP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
 SWPPP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWO AS AMENDED BY ORDER 2010-0014-DWO AND 2012-0006-DWO
TRADITIONAL RISK LEVEL 1 2 3
LUP RISK TYPE 1 2 3
- CONSTRUCTION SITE PRIORITY
 ASBS HIGH MEDIUM LOW

FIELD DATA

TOPOGRAPHY SOURCE:
BASED ON SURVEY PERFORMED BY RICK ENGINEERING COMPANY ON 8/14/2019
BENCHMARK: *SBP SUNSET CLIFFS BLVD & POINT LOMA AVE (PT. * 15) ELEV. 26.448 MSL, BASED ON NGVD 29 FEET AS SHOWN IN CITY OF SAN DIEGO BENCH BOOK.
REFERENCES: ROS 22796
BASIS OF BEARING / COORDINATES: THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY, USING ROS 14492 NAD 83 FEET, ZONE 6 (EPOCH1991.35), UTILIZING RTK/GPS FIELD PROCEDURES CONSTRAINING TO GPS 243 (PT. * 11) AND CHECKING GPS 235 (PT. * 9) I.E. N 16° 16' 13" E
STREETS REQUIRING 12" TRENCH CAP: NONE

MONUMENTATION SURVEY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS, WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8770 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT (BUSINESS AND PROFESSIONS CODE SECTION 8770). IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

DECLARATION OF RESPONSIBLE CHARGE

* I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

KEVIN R. GIBSON
LICENSE NO. 52295

G-1

PLANS FOR THE CONSTRUCTION OF
BERMUDA AVENUE COASTAL
ACCESS REPLACEMENT
COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 1 OF 5 SHEETS

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	XX/XX			

SPEC. NO.

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 1 OF 5 SHEETS

NO. 52295
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

CONTRACTOR INSPECTOR

DATE STARTED
DATE COMPLETED

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

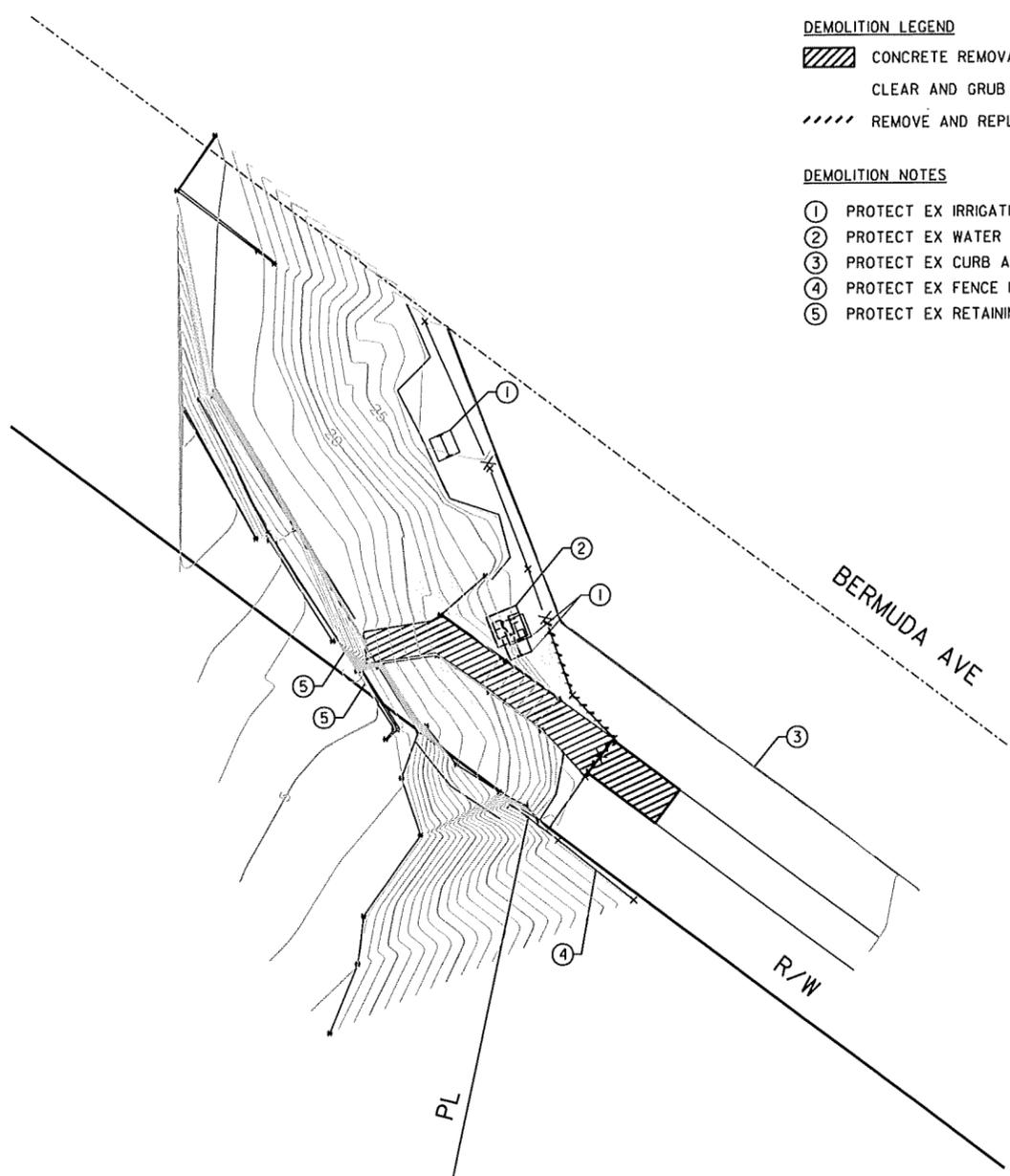
RICK
ENGINEERING COMPANY
5620 FRIARS ROAD
SAN DIEGO, CA 92110
619-291-0707
(FAX) 619-291-4165
rickengineering.com

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

The City of
SAN DIEGO
Park and Recreation

BERMUDA AVENUE COASTAL ACCESS REPLACEMENT



- DEMOLITION LEGEND**
- CONCRETE REMOVAL
 - CLEAR AND GRUB
 - REMOVE AND REPLACE FENCE

- DEMOLITION NOTES**
- ① PROTECT EX IRRIGATION BOX IN PLACE
 - ② PROTECT EX WATER APPERTENANCE IN PLACE
 - ③ PROTECT EX CURB AND GUTTER IN PLACE
 - ④ PROTECT EX FENCE IN PLACE
 - ⑤ PROTECT EX RETAINING WALL IN PLACE

STRUCTURAL CONSTRUCTION MATERIALS:

2.01 EPOXY-COATED REINFORCEMENT:

- A. THE SECTION IS APPLICABLE FOR ALL STEEL REINFORCING USED ON THE PROJECT.
- B. REINFORCEMENT SHALL BE SHOP FABRICATED PRIOR TO COATING AND SHALL CONFORM TO THE REQUIREMENTS OF AASTHO M 284.
- C. VISIBLE VOIDS IN THE COATING, REGARDLESS OF CAUSE, SHALL BE PATCHED IF THE TOTAL AREA OF VOIDS EXCEEDS 0.25% OF THE SURFACE AREA OF THE BAR. BARS THAT REQUIRE SURFACE PATCHING LESS THAN 5% OF THE TOTAL SURFACE AREA OF THE BAR MAY BE FIELD COATED WITH AN APPROVED PATCH MATERIAL SUPPLIED BY THE EPOXY FABRICATOR. BARS WHICH REQUIRE SURFACE PATCHING IN EXCESS OF 5% OF THE TOTAL SURFACE AREA OF THE BAR WILL BE REJECTED.
- D. ALL SYSTEMS FOR HANDLING COATED BARS SHALL HAVE PADDED CONTACT AREAS FOR THE BARS WHEREVER POSSIBLE. ALL BUNDLING BANDS SHALL BE PADDED AND ALL BUNDLES SHALL BE LIFTED WITH STRONG BACK, MULTIPLE SUPPORTS OR A PLATFORM BRIDGE SO AS TO PREVENT BAR-TO-BAR ABRASION FROM SAGS IN THE BAR BUNDLE.
- E. COMPENSATION FOR REINFORCING AND EPOXY-COATED REINFORCING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR VARIOUS CONCRETE PRODUCTS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THEREAFTER.

2.02 REINFORCING STEEL:

- A. REINFORCING STEEL SHALL CONFORM TO ASTM 615, GRADE 60, U.N.O. STEEL BARS SHALL BE DEFORMED BARS THAT ARE FREE FROM GREASE, RUST, MILL SCALE, OR ANY OTHER FOREIGN MATERIAL WHICH MAY AFFECT THE BARS ABILITY TO BOND TO THE CONCRETE. REINFORCING STEEL SHALL HAVE MINIMUM 3-INCH COVER.
- B. ALL DETAILING OF REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ACI318-14. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. REINFORCEMENT THAT IS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, U.N.O.
- C. CONTRACTOR SHALL USE CHAIRS OR OTHER NONCORROSIVE SUPPORT DEVICES RECOMMENDED BY THE CRSI, (CONCRETE REINFORCING STEEL INSTITUTE) TO SUPPORT THE REINFORCING BARS PRIOR TO PLACING CONCRETE.
- D. LAP SPLICES SHALL HAVE A MINIMUM LENGTH OF 12 INCHES OR 40 BAR DIAMETERS FOR CONCRETE, U.N.O., (UNLESS NOTED OTHERWISE).
- E. REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND TIES SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING INSPECTOR PRIOR TO POURING OF ANY CONCRETE OR GROUTING.
- F. REINFORCEMENT TO BE WELDED TO STEEL MEMBERS SHALL CONFORM TO ASTM 706 AND SHALL REQUIRE CONTINUOUS INSPECTION.

2.03 REINFORCED CONCRETE:

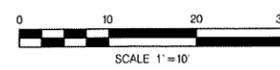
- THE CEMENTITIOUS MATERIAL MUST BE COMPOSED OF ONE OF THE FOLLOWING, BY WEIGHT:
1. 20 PERCENT NATURAL POZZOLAN OR FLY ASH WITH COA CONTENT OF UP TO 10 PERCENT, 5 PERCENT SILICA FUME, AND 75 PERCENT PORTLAND CEMENT.
 2. 12 PERCENT SILICA FUME, AND 88 PERCENT PORTLAND CEMENT.
- ADDITIONALLY, THE RATIO OF THE QUANTITY OF FREE WATER TO THE QUANTITY OF CEMENTITIOUS MATERIAL MUST NOT EXCEED 0.40.
- A. ALL STRUCTURAL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A MIX DESIGN, INTENDED FOR USE IN A CORROSIVE ENVIRONMENT, TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

2.03 STAINLESS STEEL:

- A. STAINLESS STEEL PLATES SHALL CONFORM TO ASTM A240, TYPE 316L, U.N.O.
- B. STAINLESS STEEL BARS AND SHAPES SHALL CONFORM TO ASTM A276, TYPE 316L, U.N.O.
- C. STAINLESS STEEL BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM F593, GROUP 2, WHERE EXPOSED, SHALL BE OF THE SAME MATERIAL, COLOR, AND FINISH AS THE METAL TO WHICH APPLIED, U.N.O.

D-1

BERMUDA AVE



BERMUDA AVENUE COASTAL
ACCESS REPLACEMENT
BERMUDA AVE
SUNSET CLIFFS BLVD TO PACIFIC OCEAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 2 OF 5 SHEETS

FOR CITY ENGINEER ELIZABETH SCHROTH-MICHALS PRINT DATE NAME		DATE	PROJECTED BY REZA RASHIDIAN PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	REC			
				PROJECT ENGINEER
				206-1689 CCS27 COORDINATE
				1846-6249 CCS83 COORDINATE
CONTRACTOR		DATE STARTED		41593-02-D
INSPECTOR		DATE COMPLETED		



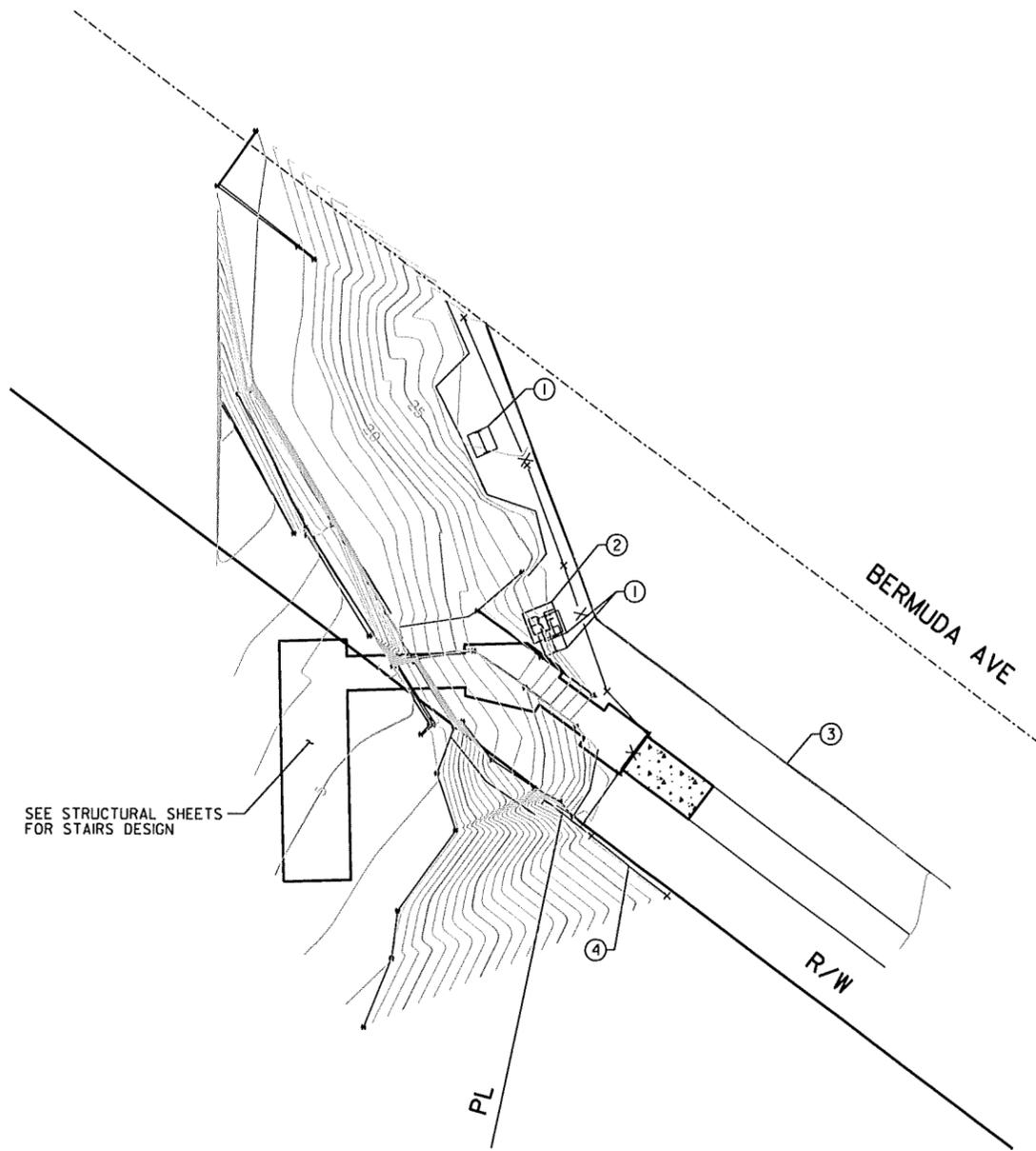
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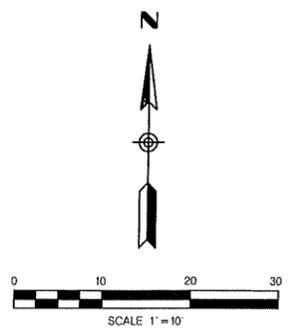
San Diego - Riverside - Orange - Sacramento - San Luis Obispo - Phoenix - Tucson - Denver

30% SUBMITTAL



- LEGEND**
- PROPOSED SIDEWALK PER SDG-155
- CONSTRUCTION NOTES**
- ① PROTECT EX IRRIGATION BOX IN PLACE
 - ② PROTECT EX WATER APPERTENANCE IN PLACE
 - ③ PROTECT EX CURB AND GUTTER IN PLACE
 - ④ PROTECT EX FENCE IN PLACE

SEE STRUCTURAL SHEETS
FOR STAIRS DESIGN



BERMUDA AVE

C-1

BERMUDA AVENUE COASTAL ACCESS REPLACEMENT BERMUDA AVE SUNSET CLIFFS BLVD TO PACIFIC OCEAN																							
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 3 OF 5 SHEETS		WBS B-17110																					
FOR CITY ENGINEER _____ DATE _____ ELIZABETH SCHROTH-MCHOLS <small>PRINT DCE NAME</small>		PROJECTED BY REZA RASHIDIAN <small>PROJECT MANAGER</small>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILED</th> </tr> </thead> <tbody> <tr> <td>ORIGINAL</td> <td>REC</td> <td></td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		DESCRIPTION	BY	APPROVED	DATE	FILED	ORIGINAL	REC														PROJECT ENGINEER 206-1689 <small>CCS27 COORDINATE</small> 1846-2649 <small>CCS83 COORDINATE</small>	
DESCRIPTION	BY	APPROVED	DATE	FILED																			
ORIGINAL	REC																						
CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____		41593-03-D																					



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30% SUBMITTAL

10/29/2019 09:43

Package Copy

**Development Plans
Version 1
Community Planning Group**



5360809

Project



650686

Bermuda Ave Coastal Access SDP 446-5049
PM: Bucey, Karen

Review Cycle

Cycle 1
Submitted (Multi-Discipline)



THE CITY OF SAN DIEGO
Development Services Department
1222 First Avenue, San Diego, CA 92101-4154