

*LOS ANGELES DISTRICT
U.S. ARMY CORPS OF ENGINEERS*

**DEPARTMENT OF THE ARMY REGIONAL GENERAL PERMIT NUMBER 84
FOR
HUNTINGTON HARBOUR BULKHEAD REPAIR AND REHABILITATION**

SPONSOR AND ISSUING OFFICE: U.S. Army Corps of Engineers, Los Angeles District

PERMIT NUMBER: Regional General Permit (RGP) No. 84 (SPL-2009-00652-JPL)

ISSUANCE DATE: November 25, 2013

Note: The term "you" and its derivatives, as used in this permit, means the permittee(s) or any future transferee(s). The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Location: The proposed work would take place within Huntington Harbour, in the city of Huntington Beach, Orange County, California.

Project Description: RGP No. 84 authorizes repair and protection of existing bulkheads for properties within Huntington Harbour. In general, the bulkhead repairs would cover three general types of activities: pile repair, placement of sheet piles and concrete replacement, and installation of slope protection. All three types of maintenance activities would not necessarily apply to each project site at any given time.

During the first type of maintenance activity, if a timber pile were found to be deteriorated, it would be exposed by removing the surrounding sediment and concrete by hand to allow a thorough visual inspection. A determination would then be made on how much of the pile, if any, would be removed. If the pile requires replacement, it would be cut and a steel support jack installed. This would be sequenced such that the wall would be supported by the maximum

number of piles. Once the damaged piles have been repaired or replaced, PVC plumbing, specifically designed for the marine environment, would be installed and extended to critical areas such as the deepest voids in the footing and around the support jack socket to ensure that concrete and pressure grout completely cover all voids that may promote corrosion or degradation. This work would be conducted by one diver. Duration of pile repair is expected to be approximately seven (7) working days within a seven (7) to 14-day period per project site.

The second type of maintenance activity would consist of placing a PVC sheet pile retaining wall in front of the excavated and/or undermined sections of bulkhead. Sections of sheet piles will be placed by hand (by one or two divers) at a maximum distance of 1'-7" away from the wall and by driving the sheet piles to their final elevation using a pneumatic vibratory hammer. No turbidity would be generated during this installation. If a tie back is required to support the sheet piles, a 1-inch hole would be drilled into the bulkhead with a pneumatic drill, and a 3/4-inch diameter threaded rod with an expansion anchor will be installed to attach the reinforced sheet pile to the bulkhead. After the sheet piles are installed, concrete and high-pressure grout would be pumped via PVC tubes to the top of the footing in order to fill all voids.

The third type of maintenance activity would consist of installing a slope protection blanket using a small barge-mounted crane (40-ft by 50-ft). The slope protection material would be staged on another barge (40-ft by 60-ft) from where it would be picked up and placed at the toe of the seawall to the specific grades. The slope protection blanket would consist of coarse material over filter fabric placed seaward of the sheet pile at a slope of 2(H) to 1(V) to provide scour protection along the footings of the seawall. This coarse material would consist of a standard size distribution referred to as 8-inch minus, or "quarry waste," typically used for this type of application. This material contains a broad range of stone sizes ranging from sand-like particles to a maximum diameter of 8 inches to prevent migration or accretion to other areas.

Permit Conditions:

General Conditions:

1. The time limit for completing the authorized activity ends on **November 25, 2018**.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification from this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to

determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished with the terms and conditions of your permit.

Special Conditions:

1. Annual cumulative discharge of fill material is limited to 0.3 acre of coverage. Individual repair and protection projects shall be no more than 0.03 acre of impact.
2. The applicant shall submit a pre-construction notification (PCN) and must receive a written notice to proceed (NTP) from the Corps Regulatory Division before commencing any work in waters of the United States. This PCN shall include the following information:
 - a. Maps of the project site including location within Huntington Harbour, site address, site latitude and longitude coordinates (e.g. decimal degree format), as well as to-scale drawings of the proposed action (i.e. plan view and cross-section view of proposed activity), including the boundaries of any proposed rock placement, and distance from any mapped eelgrass beds;
 - b. The proposed area of permanent and temporary impacts to waters of the United States (in acres or square feet), including a detailed estimate of how much material has been discharged onto the site through previous activities; and
 - c. Photos of the bulkhead area and the low tide line (i.e. prior to any work) with special emphasis on any areas of eelgrass.
 - d. A copy of the Section 401 water quality certification from the California Regional Water Quality Control Board (RWQCB) issued for the proposed project.
 - e. A copy of the Coastal Zone Management (CZM) consistency concurrence from the California Coastal Commission (CCC) issued for the proposed project.
3. Eelgrass-related requirements: ALL projects proposed for authorization under RGP No. 84 shall meet the following requirements:

- a. All projects proposed for authorization under RGP No. 84 must be surveyed for eelgrass (*Zostera marina*) presence out to 30 feet in all directions (perimeter) from the proposed project footprint;
- b. For RGP No. 84-eligible projects, the following eelgrass monitoring requirements apply:
 - i. If eelgrass is not present within a 30-foot perimeter of the proposed dredge or dredge material disposal footprint, no additional eelgrass monitoring requirements apply;
 - ii. If eelgrass is present between 0-30 feet from the proposed discharge footprint (in any direction), then monitoring of the site for potential eelgrass impacts from project operations shall be required. Monitoring shall consist of pre- and post-project transects placed perpendicular to the shoreline and spaced five feet apart that map the eelgrass bed. Enough transects will be used to extend the length of the project footprint. Along each transect, the extent of eelgrass will be measured. Any decrease in eelgrass extent along any transect (pre-project vs. post-project) will constitute an impact. The pre-project transects shall be conducted no sooner than 60 days prior to the start of dredging and the post-project transects shall be conducted no later than 30 days following the completion of dredging;
 - iii. Should the monitoring required in Special Condition “4.b.ii” above identify an impact to the mapped eelgrass bed, then mitigation consistent with the provisions of the Southern California Eelgrass Mitigation Policy (SCEMP) shall apply. An eelgrass monitoring report will be submitted to the Corps Regulatory Division, National Marine Fisheries Service (NMFS), and the California Coastal Commission no later than 90 days following completion of project activities. If an impact was detected (as defined above), the report shall include a summary of how the SCEMP will be complied with;
 - iv. For purposes of this RGP, all eelgrass survey/mapping efforts must be completed during the active growth phase for the vegetation (typically March through October) and shall be valid for a period of 120 days with the exception of surveys completed from August through October. A survey completed from August through October shall be valid until the resumption of active growth (i.e. March 1). Work may only occur with a valid survey. If the survey expires prior to commencement of work, a new survey shall be required prior to commencement of any work;
- c. Prior to commencement of any activity authorized under RGP No. 84, the boundaries of any eelgrass meadow within the general project area shall be marked with buoys so that equipment and vessel operators shall avoid damage to eelgrass meadows; and
- d. Barges and other vessels used for any activity authorized under RGP No. 84 shall be anchored to avoid encroachment into any eelgrass bed. Barges and other vessels shall avoid transit over any eelgrass meadow to the maximum extent practicable. Where transit

over eelgrass beds is unavoidable, such transit shall only occur during high tides when grounding and potential damage to eelgrass can be avoided.

4. A pre-construction survey of the project area for Caulerpa (*Caulerpa taxifolia*) shall be conducted in accordance with the Caulerpa Control Protocol (see <http://swr.nmfs.noaa.gov/hcd/caulerpa/ccp.pdf>) not earlier than 90 calendar days prior to planned construction or dredging-related activities and not later than 30 calendar days prior to construction or dredging-related activities. The results of that survey shall be furnished to the Corps Regulatory Division, NMFS, California Coastal Commission, and the California Department of Fish and Wildlife (CDFW) at least 15 calendar days prior to initiation of work in navigable waters. In the event that Caulerpa is detected within the project area, the Permittee shall not commence work until such time as the infestation has been isolated, treated, and the risk of spread is eliminated as confirmed in writing by the Corps Regulatory Division, in consultation with NMFS, the California Coastal Commission and CDFW.
5. The Permittee shall maintain a copy of this RGP No. 84 and the signed NTP on all vessels used to complete project activities authorized under this permit.
6. The Permittee shall notify the Commander Eleventh Coast Guard District, and the Coast Guard Sector LA-LB not less than 14 calendar days prior to commencing work and as project information changes. The notifications shall be provided by e-mail with information attached as a WORD.doc or pdf file. The notification shall include as a minimum the following information:
 - a. Project description including the type of operation (i.e. dredging, diving, construction, etc);
 - b. Location of operation, including Latitude / Longitude (NAD 83);
 - c. Work start and completion dates and the expected duration of operations;
 - d. Vessels involved in the operation (name, size, and type);
 - e. VHF-FM radio frequencies monitored by vessels on scene;
 - f. Point of contact and 24-hour phone number;
 - g. Potential hazards to navigation; and
 - h. Chart number for the area of operation.
 - i. Recommend the following language be used in the LNM: "Mariners are urged to transit at their slowest safe speed to minimize wake, and proceed with caution after passing arrangements have been made."

Addresses:

Commander, 11th Coast Guard District (dpw)

Telephone: 510-437-5836

E-mail: D11LNM@uscg.mil

Website: <http://www.uscg.mil/d11/dp/LNMRequest.asp>

U.S. Coast Guard, Sector LA-LB (COTP)

Attn: Waterways Management

Telephone: 310-521-3860

E-mail: Jevon.L.James2@uscg.mil; Amy.S.Rens@uscg.mil

7. The Permittee and its contractor(s) shall not remove, relocate, obstruct, willfully damage, make fast to, or interfere with any aids to navigation defined at 33 C.F.R. chapter I, subchapter C, part 66. The Permittee shall ensure its contractor notifies the U.S. Coast Guard in writing, with a copy to the Corps Regulatory Division, not less than 30 calendar days in advance of operating any equipment adjacent to any aids to navigation which requires relocation or removal. Should any federal aids to navigation be affected by this project, the Permittee shall submit a request, in writing, to the Corps Regulatory Division as well as the U.S. Coast Guard, Aids to Navigation office. The Permittee and its contractor(s) are prohibited from relocating or removing any aids to navigation until authorized to do so by the Corps Regulatory Division and the U.S. Coast Guard.
8. Should the Permittee determine the work requires the placement and use of private aids to navigation in navigable waters of the United States, the Permittee shall submit a request in writing to the Corps Regulatory Division as well as the U.S. Coast Guard, Aids to Navigation office. The Permittee is prohibited from establishing private aids to navigation in navigable waters of the United States until authorized to do so by the Corps Regulatory Division and the U.S. Coast Guard.
9. The Permittee's contractor(s) shall monitor VHF-FM channels 13 and 16 while conducting project operations.
10. Upon request, the Permittee and its contractor(s) shall allow inspectors from the Corps Regulatory Division, and/or the U.S. Coast Guard to inspect all phases of project operations.
11. The permitted activity shall not interfere with the public's right to free navigation on all navigable waters of the United States.
12. If a violation of any permit condition occurs, the violation shall be reported by the Permittee to the Corps Regulatory Division within 24 hours. If the Permittee retains any contractors to perform any activity authorized by this permit, the Permittee shall instruct all such contractors that notice of any violations must be reported to the Permittee immediately.
13. This RGP does not authorize significant impacts to aquatic resources. Based on relevant information, the Corps Regulatory Division will determine if compensatory mitigation is required. Any required mitigation would be the responsibility of the permittee and failure to implement Corps-specified mitigation could result in enforcement proceedings. Any impacts to eelgrass would be mitigated according to Special Condition 4.b.iii above.
14. This Corps permit does not authorize you to take any threatened or endangered species, or adversely modify its designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g. ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply).

15. The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers Regulatory Division, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

Further Information:


1. Congressional Authorities. You have been authorized to undertake the activity described above pursuant to:

☒ Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
☒ Section 404 of the Clean Water Act (33 U.S.C. 1344).
☐ Section 103 of the Marine Protection Research and Sanctuaries Act (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.

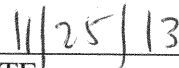
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information provided.
- 5. Re-evaluation of Permit Decision. This office may re-evaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a re-evaluation include, but are not limited to, the following:
 - a. Failure to comply with the terms and conditions of this permit.
 - b. The information provided in support of the permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a re-evaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 C.F.R. §325.7 or enforcement procedures such as those contained in 33 C.F.R. §§326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring compliance with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measure ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 C.F.R. §209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.



Mark D. Cohen
Deputy Chief, Regulatory Division



DATE



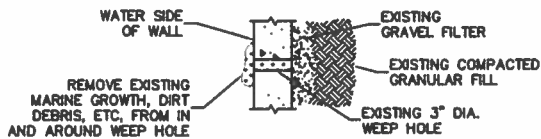
Source: Thomas Bros. Maps



Tetra Tech, Inc.
401 East Ocean Blvd., Suite 420
Long Beach, California 90802
Ph. (562) 495-0495 Fax (562) 495-5029

Vicinity Map Davenport Bulkhead Repair Group

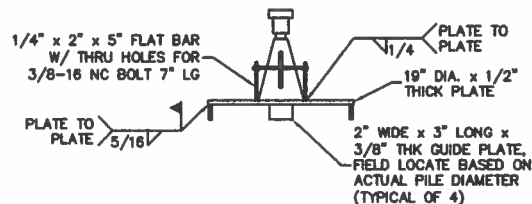
May 2008
Figure 1



WEEP HOLE DETAIL

SCALE: 1/4" = 1'- 0"

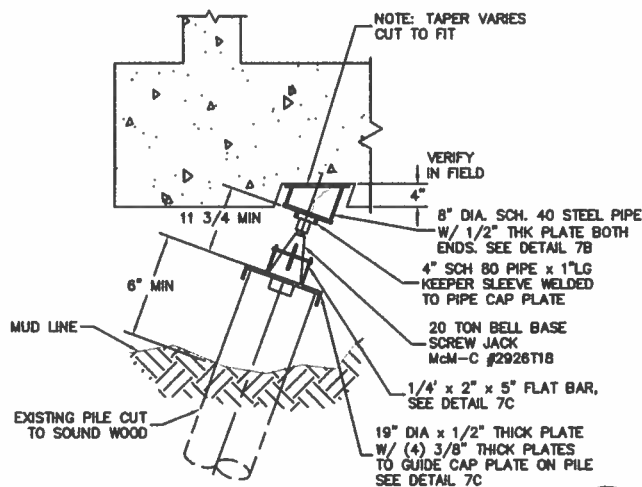
6



PILE CAP PLATE DETAIL

SCALE: N.T.S.

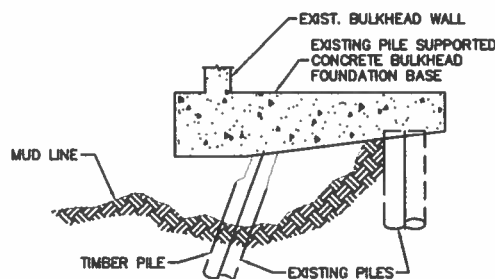
7C



JACKING DETAIL

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

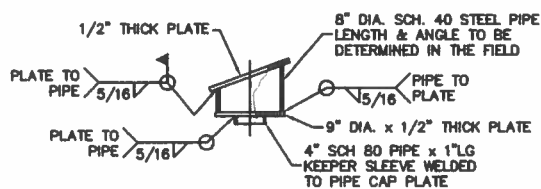
7



SECTION 25% OR LESS PILE DETERIORATION

SCALE: N.T.S. PILE REPAIR NOT REQUIRED
SEE DETAIL 2

8

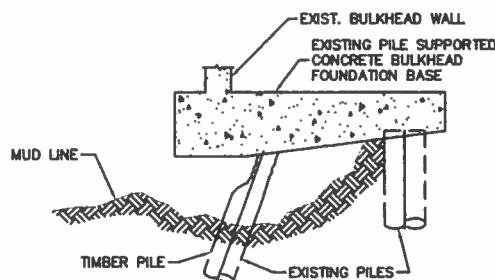


JACKING ASSEMBLY DETAIL

SCALE: N.T.S.

NOTES: FIELD MEASURE EXISTING PILE SOCKET IN CONCRETE BASE SLAB AND CUT TOP PLATE TO FIT SOCKET.
CENTERLINE TOP PLATE = CENTERLINE PIPE
CENTERLINE PIPE = CENTERLINE JACK

7B



SECTION 25% OR MORE PILE DETERIORATION

SCALE: N.T.S. PILE REPAIR REQUIRED
SEE DETAILS: 1 & 2

9



TETRA TECH

401 East Ocean Blvd., Suite 420
Long Beach, CA 90802
(562)495-0495, Fax (562)495-5029

**These revised typical sections replace drawings submitted for review and approval as proposed by the CCC and as agreed by project proponents.

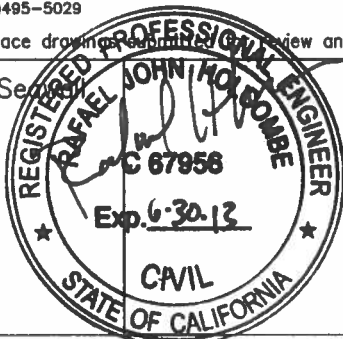
PURPOSE: Repair Existing Seawall

SECTION VIEW

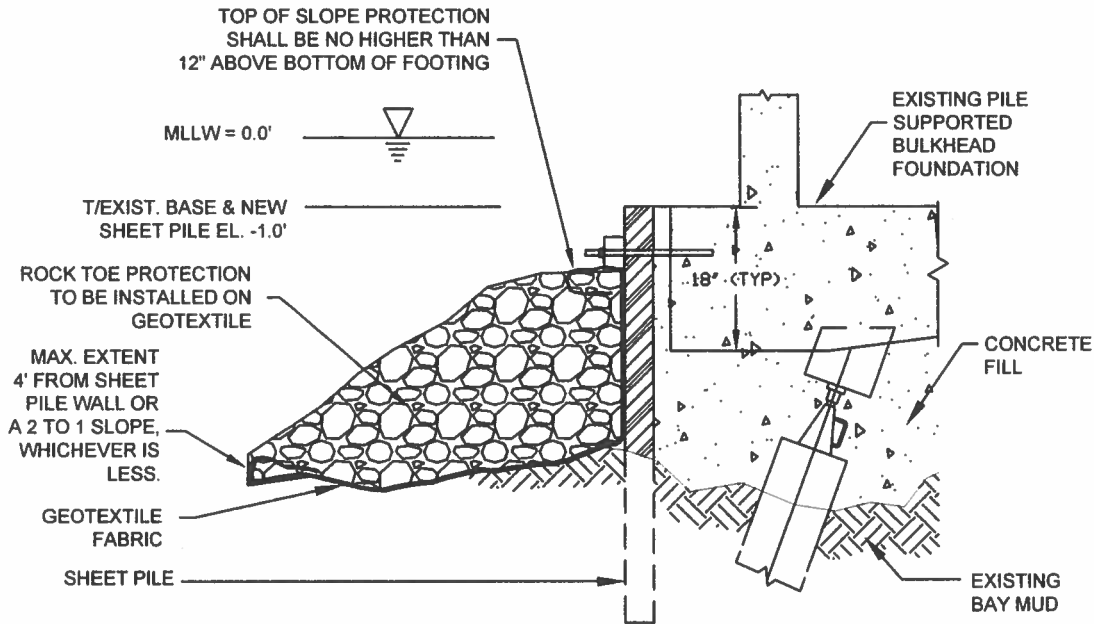
CDP Permit Group No.:
5-12-066

Proposed Repair of Existing Seawall
IN: Huntington Harbour
AT: Huntington Beach, CA
County of Orange
State: CA

Datum: MLLW = 0
Adj. Property Owners:
1. See Attached List
2.
3.

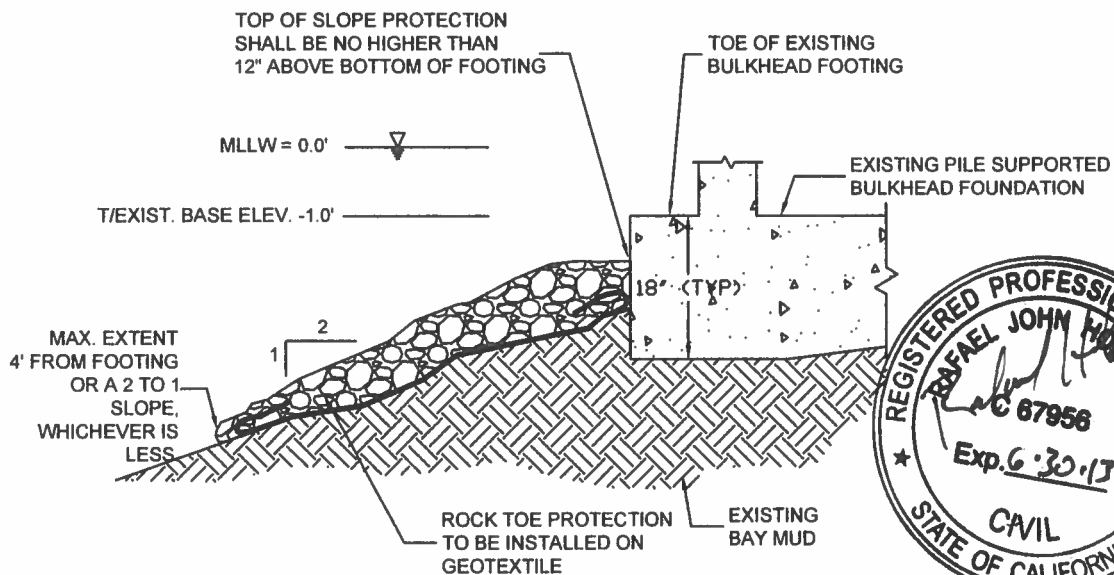


Sheet 8 of 9 Date: REV AUG 2012



SECTION AT SHEET PILE: (CASE I, II, & III)
SCALE: 3/8" = 1'-0" (ROCK SLOPE PROTECTION AT SHEET PILE)

10



SECTION AT FOOTING TOE: CASE IV
SCALE: 3/8" = 1'-0" (ROCK SLOPE PROTECTION ONLY)

11

**These revised typical sections replace drawings submitted for review and approval as proposed by the CCC and as agreed by project proponents.

PURPOSE: Repair Existing Seawall

Datum: MLLW = 0

SECTION VIEW

Proposed Repair of Existing Seawall
IN: Huntington Harbour
AT: Huntington Beach, CA
County of Orange
State: CA

CDP Permit Group No.
5-12-066

Sheet 9 of 9

Date: REV AUG 2012



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