CALIFORNIA COASTAL COMMISSION
South Coast Area Office
200 Oceangate, Suite 1000
Long Beach, CA 90802-4302
(562) 590-5071

Th8i

Filed:	12/1/2015
180th Day:	5/26/2016
270th Day:	8/24/2016
Staff:	S. Vaughn-LB
Staff Report:	1/21/2016
Hearing Date:	2/11/2016

STAFF REPORT: CONSENT CALENDAR

Application No.:	**5-15-1904**
Applicant:	**City of Huntington Beach, Jonathan Claudio, P.E., Senior Engineer**
Agent:	Erinn Peterson, Senior Environmental Planner, GPA Consulting
Location:	Humboldt Drive Bridge (Bridge No. 55C-0284), over Short Channel in Huntington Beach Harbor, between Wayfare Lane and Wimbledon Lane, City of Huntington Beach, Orange County
Project Description:	Bridge maintenance and repairs including: removal and replacement of the concrete barriers, sidewalks, and bridge deck; cleaning and painting the steel I-girders and other steel members; removal and replacement of unsound concrete and the bridge piers; and widening the 156’ long bridge from approximately 35' to approximately 39’.
Staff Recommendation:	Approval with conditions

SUMMARY OF STAFF RECOMMENDATION

The Humboldt Drive Bridge is located in the City of Huntington Beach between Wayfare Lane and Wimbledon Lane in Huntington Beach Harbor and spans Short Channel. The bridge is 156 feet long with two vehicle lanes and pedestrian access from the main land to Humboldt Island. The proposed project involves bridge repair and maintenance and widening. As part of the bridge rehabilitation and widening, the applicant proposes to widen the bridge from approximately 35 feet to approximately 39 feet (about two feet on each side) in order to provide the required roadway width

and standard sidewalks on either side of the bridge. Rehabilitation would include removal and replacement of concrete barriers, sidewalks, and bridge deck; cleaning and painting the steel I-girders and other steel members; and removal and replacement of unsound concrete on the bridge piers. Working platforms would be constructed of untreated timber, installed during low tide, and suspended from the existing bridge soffit and/or pier walls. The project would be completed in two phases as described in Section IV of this staff report.

Commission staff recommends **approval** of Coastal Development Permit application 5-15-1904, with **seven (7)** special conditions regarding: **(1) Resource Agencies; (2) Avoidance of Sensitive Species; (3) Pre- and Post-Construction Eelgrass Survey(s); (4) Pre-Construction *Caulerpa taxifolia* Survey; (5) Construction Responsibilities and Debris Removal; (6) Construction Access and Staging Plans; and 7) Assumption of Risk, Waiver of Liability and Indemnity Agreement Applicable to Applicant.** The special conditions are necessary to ensure that rare and protected species in the area and coastal resources are protected and that the applicant is aware of and assumes the risks associated with the proposed development.

The bridge is located within the City of Huntington Beach, which has a certified Local Coastal Program. However, the project contains development occurring over coastal waters, which is within an area of the Commission's retained permit jurisdiction, and development located in the City's jurisdiction. The applicant has exercised the consolidated permit provisions in Section 30601.3 of the Coastal Act, which allows the Commission to process a coastal development permit for development located in both its jurisdiction and the City's jurisdiction. In such cases, the standard of review is Chapter 3 of the Coastal Act with . the City's certified Local Coastal Program used as guidance.

TABLE OF CONTENTS

I. MOTION AND RESOLUTION

Motion:

*I move that the Commission **approve** the coastal development permit applications included on the consent calendar in accordance with the staff recommendations.*

Staff recommends a **YES** vote. Passage of this motion will result in approval of all of the permits included on the consent calendar. The motion passes only by affirmative vote of a majority of the Commissioners present.

Resolution:

The Commission hereby approves a coastal development permit for the proposed development and adopts the findings set forth below on grounds that the development as conditioned will be in conformity with the policies of Chapter 3 of the Coastal Act and will not prejudice the ability of the local government having jurisdiction over the area to prepare a Local Coastal Program conforming to the provisions of Chapter 3. Approval of the permit complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment, or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

II. STANDARD CONDITIONS

This permit is granted subject to the following standard conditions:

1. **Notice of Receipt and Acknowledgment**. The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.

2. **Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.

3. **Interpretation.** Any questions of intent of interpretation of any condition will be resolved by the Executive Director or the Commission.

4. **Assignment.** The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.

5. **Terms and Conditions Run with the Land.** These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

III. SPECIAL CONDITIONS

This permit is granted subject to the following special conditions:

1. **Resource Agencies.** The permittee shall comply with all requirements, requests and mitigation measures from the California Department of Fish and Wildlife, California Department of Transportation, Regional Water Quality Control Board, United States Army Corps of Engineers, United States Coast Guard, National Oceanic and Atmospheric Administration, National Marine Fisheries, and the United States Fish and Wildlife Service with respect to preservation and protection of water quality and the marine and terrestrial environment. Any change in the approved project that may be required by the above-stated agencies shall be submitted to the Executive Director in order to determine if the proposed change shall require a permit amendment pursuant to the requirements of the Coastal Act and the California Code of Regulations.

2. **Avoidance of Sensitive Species**

   A. Nesting Birds. Prior to commencement of any demolition or construction activities between February 15 through August 31, a qualified biologist shall conduct a breeding behavior and nesting survey for birds protected by the United States Fish and Wildlife Service, California Department of Fish and Wildlife, the Migratory Bird Treaty Act and California species of special concern, within 300' of the project site and within 500' for raptors and owls. If any occupied nests of any sensitive species are discovered, construction activities within 300' of the nest (500' for raptors and owls) shall be monitored to ensure that construction noise levels do not exceed 85 dB peak until the nest is vacated, juveniles have fledged, and there is no evidence of a second attempt at nesting. The applicant shall implement a larger buffer if the biologist recommends a larger buffer from the nest.

   B. Sensitive Species Monitoring. Prior to undertaking any development including, but not limited to, demolition, construction, grading or excavation, a qualified biologist shall survey the project site to determine whether sensitive bird species, including but not limited to Belding's savannah sparrow, western snowy plover, brown pelican, light-footed clapper rail, black skimmer or California least tern, are present within 100' of the project site, and whether sensitive plant species, including but not limited to wooly seablite, estuary seablite, Leopold's rush or southern tarplant are located within 25' of the project site. Excepting southern tarplant, addressed in **Special Condition 2D**, construction activities shall avoid any identified species.

   C. An appropriately trained biologist shall monitor the proposed development for disturbance to sensitive species or habitat area. At minimum, monitoring shall occur once a week during any week in which construction occurs. Daily monitoring shall occur during development that could significantly impact biological resources, such as construction that could result in disturbances to sensitive species. Based on field observations, the biologist shall advise the Permittee regarding methods to avoid significant impacts which could occur to sensitive species or habitat areas.

   D. If, prior to construction, the biologist identifies impacts to southern tarplant which cannot feasibly be avoided, a final seeding and salvage plan shall be submitted for the review and

approval of the Executive Director. The seeding and salvage plan shall include a plan identifying the location of southern tarplant, the required width necessary for construction access, and measures for reseeding or salvage.

3. Pre-and Post-Construction Eelgrass Survey(s)

A. Pre-Construction Eelgrass Survey. A valid pre-construction eelgrass (Zostera marina) survey shall be completed during the period of active growth of eelgrass (typically March through October). The pre- construction survey shall be completed within 60 days before the start of construction. The survey shall be prepared in full compliance with the "California Eelgrass Mitigation Policy and Implementing Guidelines" dated October 2014 (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/california_eelgrass.html) adopted by the National Marine Fisheries Service (except as modified by this special condition) and shall be prepared in consultation with the California Department of Fish and Wildlife. The applicant shall submit the eelgrass survey for the review and approval of the Executive Director within five (5) business days of completion of each eelgrass survey and no later than fifteen (15) business days prior to commencement of any development. If the eelgrass survey identifies any eelgrass within the project area which would be impacted by the proposed project, the development shall require an amendment to this permit from the Coastal Commission or a new coastal development permit.

B. Post Construction Eelgrass Survey. If any eelgrass is identified in the project area by the survey required in subsection A of this condition above, within 30 days of completion of construction, or within the first 30 days of the next active growth period following completion of construction that occurs outside of the active growth period, the applicant shall survey the project site to determine if any eelgrass was adversely impacted. The survey shall be prepared in full compliance with the "California Eelgrass Mitigation Policy and Implementing Guidelines" dated October 2014 (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/california_eelgrass.html) (except as modified by this special condition) adopted by the National Marine Fisheries Service and shall be prepared in consultation with the California Department of Fish and Wildlife. The applicant shall submit the post-construction eelgrass survey for the review and approval of the Executive Director within thirty (30) days after completion of the survey. If any eelgrass has been impacted, the applicant shall replace the impacted eelgrass at a minimum 1.2:1 (mitigation:impact) ratio on-site, or at another location, in accordance with the California Eelgrass Mitigation Policy and Implementing Guidelines. Based on past performance of eelgrass mitigation efforts in this area, in order to achieve this minimum, an initial planting ratio of 1.38:1 is recommended. All impacts to eelgrass habitat shall be mitigated at a minimum ratio of 1.2:1 (mitigation: impact). Any exceptions to the required 1.2:1 mitigation ratio found within the California Eelgrass Mitigation Policy and Implementing Guidelines shall not apply. Implementation of mitigation shall require an amendment to this permit or a new coastal development permit unless the Executive Director determines that no amendment or new permit is legally required.

4. Pre-Construction *Caulerpa taxifolia* Survey

A. No earlier than 90 days nor later than 30 days prior to commencement or re-commencement of any development authorized under this coastal development permit (the "project"), the

applicant shall undertake a survey of the project area and a buffer area at least 10 meters beyond the project area to determine the presence of the invasive alga *Caulerpa taxifolia*. The survey shall include a visual examination of the substrate.

B. The survey protocol shall be prepared in consultation with the Regional Water Quality Control Board, the California Department of Fish and Wildlife, and the National Marine Fisheries Service (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/caulerpa_taxifolia.html).

C. Within five (5) business days of completion of the survey, the applicant shall submit the survey:

1. for the review and approval of the Executive Director; and

2. to the Surveillance Subcommittee to the Southern California Caulerpa Action Team (SCCAT). The SCCAT Surveillance Subcommittee may be contacted through William Paznokas, California Department of Fish & Wildlife (858-467-4218/William.Paznokas@wildlife.ca.gov) or Bryant Chesney, National Marine Fisheries Service (562-980-4037/Bryant.Chesney@noaa.gov), or their successors.

D. If *Caulerpa taxifolia* is found within the project or buffer areas, the applicant shall not proceed with the project until 1) the applicant provides evidence to the Executive Director that all *C. taxifolia* discovered within the project and/or buffer area has been eliminated in a manner that complies with all applicable governmental approval requirements, including but not limited to those of the California Coastal Act, or 2) the applicant has revised the project to avoid any contact with *C. taxifolia*. No revisions to the project shall occur without a Coastal Commission approved amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.

5. Construction Responsibilities and Debris Removal. The permittee shall comply with the following construction related requirements:

A. No demolition or construction materials, equipment, debris, or waste shall be placed or stored where it may enter sensitive habitat, receiving waters or a storm drain, or be subject to wave, wind, rain or tidal erosion and dispersion.

B. Any and all debris resulting from demolition or construction activities, and any remaining construction material, shall be removed from the project site within 24 hours of completion of the project.

C. Demolition or construction debris and sediment shall be removed from work areas each day that demolition or construction occurs to prevent the accumulation of sediment and other debris that may be discharged into coastal waters.

D. Machinery or construction materials not essential for project improvements will not be allowed at any time in the intertidal zone

E. If turbid conditions are generated during construction a silt curtain will be utilized to control turbidity.

F. Floating booms shall be used to contain debris discharged into coastal waters and any debris discharged will be removed as soon as possible but no later than the end of each day.

G. Non-buoyant debris discharged into coastal waters will be recovered by divers as soon as possible after loss.

H. All trash and debris shall be disposed in the proper trash and recycling receptacles at the end of every construction day.

I. The applicant shall provide adequate disposal facilities for solid waste, including excess concrete, produced during demolition or construction.

J. Debris shall be disposed of at a legal disposal site or recycled at a recycling facility. If the disposal site is located in the coastal zone, a coastal development permit or an amendment to this permit shall be required before disposal can take place, unless the Executive Director determines that no amendment or new permit is legally required.

K. All stock piles and construction materials shall be covered, enclosed on all sides, shall be located as far away as possible from drain inlets and any waterway, and shall not be stored in contact with the soil.

L. Machinery and equipment shall be maintained and washed in confined areas specifically designed to control runoff. Thinners or solvents shall not be discharged into sanitary or storm sewer systems.

M. The discharge of any hazardous materials into any receiving waters shall be prohibited.

N. Spill prevention and control measures shall be implemented to ensure the proper handling and storage of petroleum products and other construction materials. Measures shall include a designated fueling and vehicle maintenance area with appropriate berms and protection to prevent any spillage of gasoline or related petroleum products or contact with runoff. The area shall be located as far away from the receiving waters and storm drain inlets as possible.

O. Best Management Practices (BMPs) and Good Housekeeping Practices (GHPs) designed to prevent spillage and/or runoff of demolition or construction-related materials, and to contain sediment or contaminants associated with demolition or construction activity, shall be implemented prior to the on-set of such activity.

P. All BMPs shall be maintained in a functional condition throughout the duration of construction activity.

6. **Construction Access and Staging Plans.** PRIOR TO COMMENCEMENT OF CONSTRUCTION, the permittee shall submit a plan for the review and approval of the Executive Director which indicates that the construction staging area(s) and construction corridor(s)/access will avoid impacts to public access or sensitive habitat areas, except as specifically authorized in this coastal development permit:

A. The plan shall demonstrate that:

1. Construction equipment or activity shall not occur outside the staging area and construction corridor identified on the site plan required by this condition.
2. Staging or storage areas shall not be located in or result in impacts to habitat areas.
3. The construction staging/storage area shall not be located in public beach parking areas during the peak summer period (Memorial Day to Labor Day).
4. The size of the construction staging/storage area will be minimized and will be gradually reduced as less materials and equipment are necessary.
5. The construction access corridor is the minimum width necessary, boundaries of the corridor have been flagged for avoidance of sensitive habitat and public access ways, and measures to protect the soil from disturbance such as temporary driving surfaces are utilized.

B. The plan shall include, at a minimum, the following components:

1. A site plan that depicts:

   a. limits of the staging area(s)
   b. construction corridor(s)
   c. construction site
   d. location of construction fencing and temporary job trailers
   e. traffic control plan

2. Written documentation from the owner of the staging area site that the permittee is authorized to use the site, as conditioned by the Coastal Commission, for the period the project is under construction or needed to complete post construction restoration work.

The permittee shall undertake development in accordance with the approved final plans. Any proposed changes to the approved final plans shall be reported to the Executive Director. No changes to the approved final plans shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.

7. Assumption of Risk, Waiver of Liability and Indemnity Agreement Applicable to Applicant. By acceptance of this permit, the applicant, the City of Huntington Beach, acknowledges and agrees (i) that the site may be subject to hazards from wave and tidal action, flooding, erosion, sea level rise, geologic instability, or liquefaction; (ii) to assume the risks to the applicant, the City of Huntington Beach, and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development; (iii) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; (iv) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.

IV. FINDINGS AND DECLARATIONS

A. PROJECT LOCATION & DESCRIPTION

The project site is the existing Humboldt Drive Bridge (bridge #55C-0284) in the City of Huntington Beach, Orange County. The bridge is located within Huntington Beach Harbor and spans Short Channel, which separates the mainland from Humboldt Island. It serves as the only vehicular and pedestrian access to Humboldt Island, which is a developed residential neighborhood with one small pocket beach that does not otherwise have a public accessway. The existing bridge is a multi-span steel I-girder bridge that was constructed in 1963 as part of the development of the harbor. The existing bridge is approximately 35 feet wide and 156 feet long; it measures 26 feet curb to curb, which is less than the minimum required roadway for this type of bridge based on the California Department of Transportation standards. The bridge provides one 13-foot vehicular eastbound lane, one 12-foot vehicular westbound lane, a five-foot wide pedestrian sidewalk on the south side, and a two-foot wide pedestrian sidewalk on the north side; there are no shoulders or bike lanes **(EXHIBIT 1)**. Utilities, including high-voltage electrical lines, gas lines, water, sewer, and cable, are embedded in the existing sidewalks and suspended underneath the bridge in conduits.

The proposed project includes repairs to and widening of the existing bridge including: removal and replacement of the concrete barriers, sidewalks, and bridge deck; cleaning and painting the steel I-girders and other steel members; and removal and replacement of unsound concrete on the bridge piers. Construction activities are expected to last approximately eight months and would be completed in two phases. Vehicular and pedestrian traffic across the bridge will be maintained throughout the construction period by installing a temporary traffic signal system to safely direct traffic over the bridge deck in a staggered manner. Temporary traffic sensors would be installed in limited locations at the approach roadways. Pedestrian traffic across the bridge would be provided continually during the construction process. Existing utilities will be temporarily relocated and supported during construction. When construction is complete, utilities would be replaced in their original locations. BMPs to prevent all material, equipment, and debris from falling into the channel would be implemented during all maintenance activities as proposed by the applicant and required by **Special Condition 5**.

Phase I of the proposed project involves the closure of the south half of the bridge using K-rail barriers to separate vehicular traffic from work areas. The south side of the bridge deck would be removed, along with the concrete barriers and sidewalk, providing access to the steel girders below. The steel girders would be accessed from the top of the bridge, sandblasted to remove rust, and painted or replaced if badly corroded. The work area would be tented in order to contain all paint and debris while the I-girders and other steel members are sandblasted and repaired **(EXHIBIT 2)**. Pier repair involves the removal of unsound concrete above the high tide line using small jackhammers. All exposed reinforcement would be sandblasted, a bonding agent would be applied, and the piers would be patched with new concrete. All work on the piers would be performed during low tide with protective measures in place to prevent any material, equipment, and debris from falling into the channel. Once the repairs are complete, the new deck, concrete barrier, and sidewalk (including bridge widening) would be placed and Phase II would commence.

Phase II includes rehabilitation of the north half of the bridge using the same process as just described. The north half of the bridge would be closed, the concrete barriers, sidewalks, and bridge

deck removed, and repairs made to steel girders and piers. After the repairs and widening are complete, the bridge would be reopened.

In a routine Bridge Inspection Report performed by Caltrans on June 16, 2010, the bridge was flagged as functionally obsolete because of the narrow roadway width. The following structural deficiencies were also noted in the report and observed during a bridge inspection performed by Briggs Cardosa Associates, Inc. on November 14, 2012: surface rust on interior girders and bearings; rust and corrosion causing substantial section loss on the outside of the girders; transverse cracking in the deck, moderate in size and density, and spalls at westbound lanes of deck; joint seals full of dirt; cracking and spalls on bent caps; and cracks and spalling in the sidewalk and parapet. The purpose of the purposed project is to enhance public safety, extend the life of the bridge, and prevent environmental damage.

Work for the proposed project would occur over and within a navigable channel within the Huntington Beach Harbor, which shares an outlet with Bolsa Chica Channel. Although no eelgrass or *Caulerpa taxifolia* was found in previous surveys of the area, in order to protect biological resources from potential negative impacts from construction activities within the channel, the Commission imposes **Special Conditions 3, 4 & 5**, which require the applicant to conduct Eelgrass and *Caulerpa taxifolia* surveys and possible Eelgrass mitigation, and to implement construction BMPs. Additionally, in an effort to avoid impacts to sensitive species, the Commission imposes **Special Conditions 1 &2**, which require the applicant to comply with the requirements of other resource agencies and to take careful measures to avoid adversely affecting sensitive species.

At the end of each workday, all construction equipment, materials and other gear will be properly secured and stored in an approved staging area. **Special Condition 6** requires that the applicant submit construction access and staging plans for approval by the Executive Director prior to commencement of construction. **Special Condition 7** imposes an assumption of risk, waiver of liability and indemnity agreement on the applicant. By accepting a Coastal Development Permit, the applicant agrees to this and all associated conditions.

B. WATER QUALITY / MARINE RESOURCES

The proposed work will occur in a location where there is a potential for a discharge of polluted runoff from the project site into coastal waters. The storage or placement of construction material, debris, or waste in a location where it could be carried into coastal waters would result in an adverse effect on the marine environment. To reduce the potential for construction and post-construction related impacts on water quality, the Commission imposes special conditions requiring, but not limited to, the appropriate storage and handling of construction equipment and materials to minimize the potential of pollutants to enter coastal waters and for the use of on-going best management practices following construction. As conditioned, the Commission finds that the development conforms with Sections 30230 and 30231 of the Coastal Act.

C. BIOLOGICAL RESOURCES

As conditioned, the development will not result in significant degradation of adjacent habitat, recreation areas, or parks and is compatible with the continuance of those habitat, recreation, or park areas. Therefore, the Commission finds that the project, as conditioned, conforms with Section 30240(b) of the Coastal Act.

D. VISUAL RESOURCES

As proposed, the development is located within an existing developed area and is compatible with the character and scale of the surrounding area. As conditioned, the project will not disrupt public coastal views. Therefore, the Commission finds that the development conforms with Sections 30250, 30251, and 30252 of the Coastal Act.

E. MARINE RESOURCES

The proposed development is the improvement of a bridge which crosses over a waterway and leads into a residential development on filled tidelands. The proposed development has been designed to minimize the fill of coastal waters and adequate mitigation has been provided. The proposed development has been conditioned to minimize adverse effects on the marine environment by avoiding or mitigating impacts upon sensitive marine resources, such as eelgrass and to avoid contributing to the dispersal of the invasive aquatic algae, *Caulerpa taxifolia*. As conditioned, there are no feasible less environmentally damaging alternatives available. Therefore, the Commission finds that the proposed development conforms with Sections 30224, 30230, 30231, and 30233 of the Coastal Act.

F. HAZARDS

Development adjacent to the ocean is inherently hazardous. To minimize risks to life and property, the development has been conditioned to: require that the applicant assume the risk of undertaking the development. As conditioned, the Commission finds that the development conforms to the requirements of Section 30253 of the Coastal Act regarding the siting of development in hazardous locations.

G. PUBLIC ACCESS

As conditioned, the proposed development will not have any new adverse impact on public access to the coast or to nearby recreational facilities. Thus, as conditioned, the proposed development conforms with Sections 30210 through 30214, Sections 30220 through 30224, and 30252 of the Coastal Act.

H. LOCAL COASTAL PROGRAM (LCP)

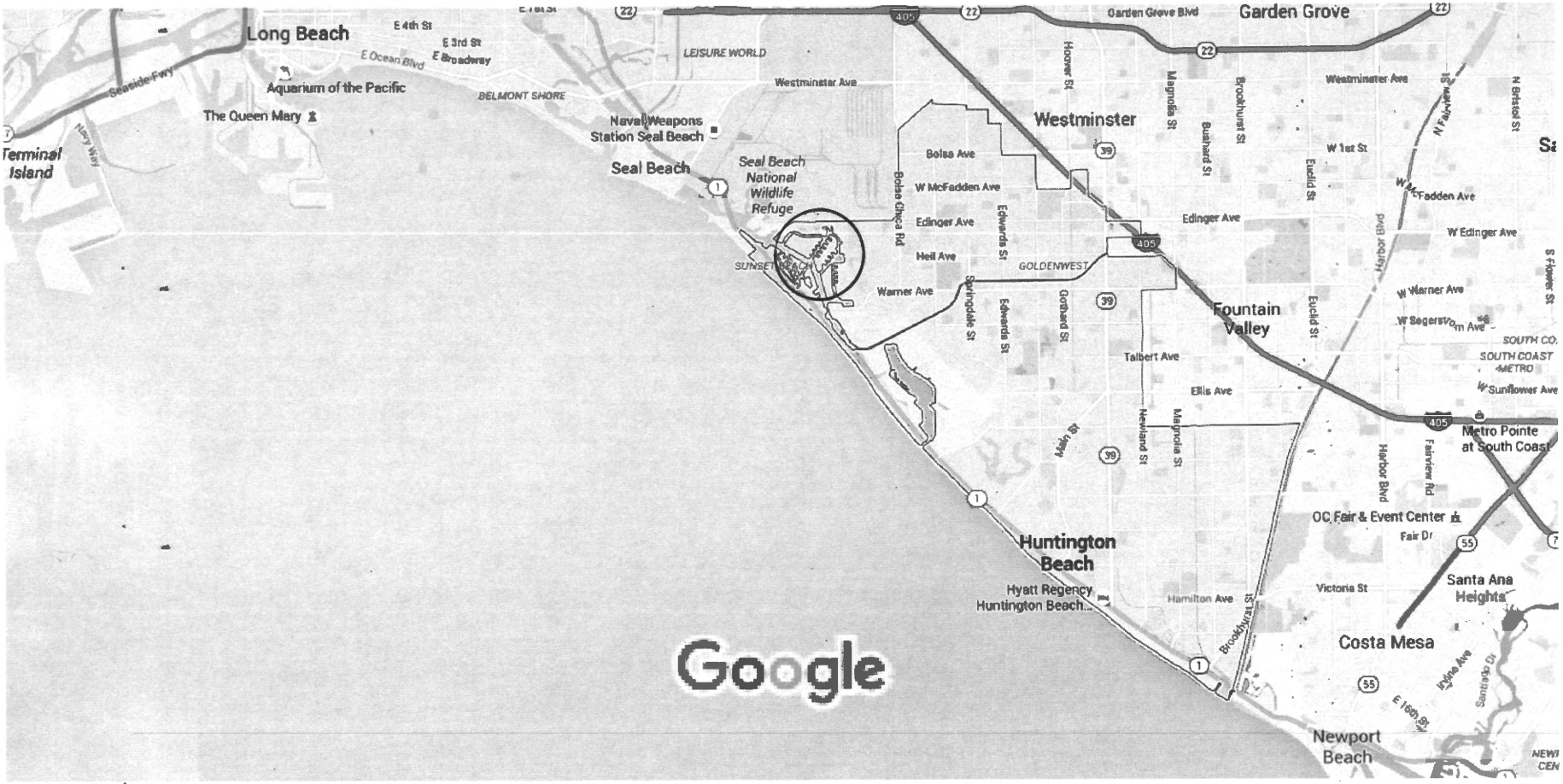
An LCP for the City of Huntington Beach was effectively certified in March 1985. However, the proposed development is occurring within an area that crosses jurisdiction with that of the Commission's original permit jurisdiction.

Section 30601.3 of the Coastal Act provides for the issuance of coastal development permits directly by the Commission when the applicant, the local government and the Commission through its executive director consent to consolidate the permit action, provided that public participation is not substantially impaired by that review consolidation. In this case, the project site crosses jurisdictional boundaries, the applicant is the City, and the City submitted the coastal development permit application directly to the Commission, requesting a consolidated permit action by the Commission. Consequently, the standard of review is Chapter 3 of the Coastal Act and the City's LCP is used only as guidance. As conditioned, the proposed development is consistent with Chapter 3 of the Coastal Act and with the certified LCP for the area.

I. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

As conditioned, there are no feasible alternatives or additional feasible mitigation measures available that would substantially lessen any significant adverse effect that the activity may have on the environment. Therefore, the Commission finds that the proposed project, as conditioned to mitigate the identified impacts, is the least environmentally damaging feasible alternative and can be found consistent with the requirements of the Coastal Act to conform to CEQA.

Google Maps Huntington Beach, CA



Map data ©2016 Google 2 mi

COASTAL COMMISSION
5-15-1904
EXHIBIT # 1
PAGE 1 OF 3

Google Maps Huntington Beach, CA

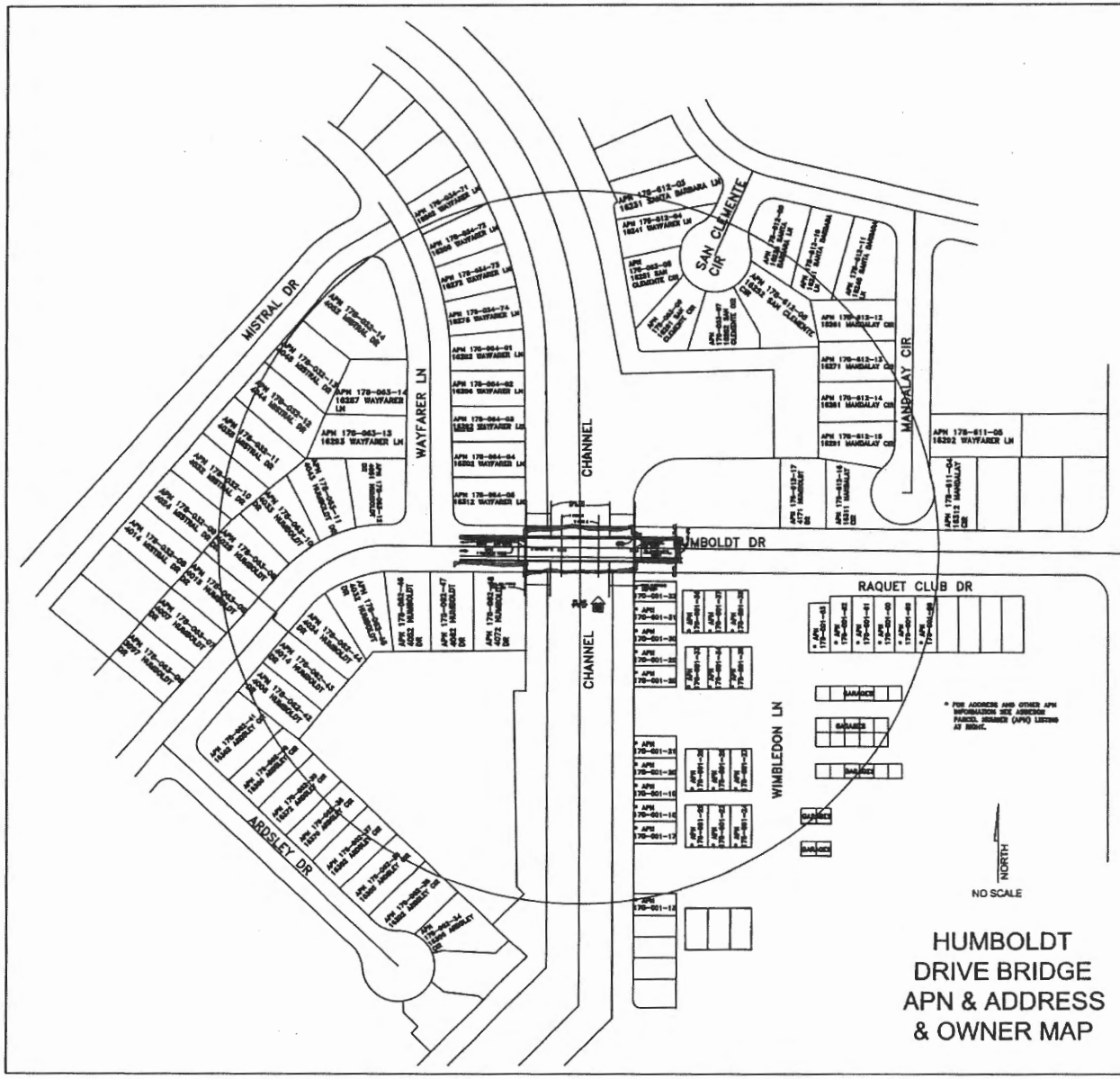
Imagery ©2016 Google, Map data ©2016 Google 500 ft

COASTAL COMMISSION

EXHIBIT # 1

PAGE 2 OF 3

100-Foot Radius Map



Note: Names of individuals are listed as last name first followed by first name and middle initial. Mailing address is in the City of Huntington Beach, unless Stated otherwise

CITY OF HUNTINGTON BEACH HUMBOLDT Dr. BRIDGE
ASSESSOR PARCEL NUMBER (APN) LISTING

APN	Street No.	Street Name	Owner Name	Mailing Address
178-033				
178-032-08	4014	Mistral Dr.	Hakopoff William	4014 Mistral Dr
178-032-09	4024	Mistral Dr.	Leung Anthony J & Melanie S	4024 Mistral Dr
178-032-10	4032	Mistral Dr.	Pizzuto Frank P. Pizzuto-survivor trustee	4032 Mistral Dr
178-032-11	4048	Mistral Dr.	Potts William F	4048 Mistral Dr
178-032-12	4044	Mistral Dr.	McElligott Isabel T & Susan E	4044 Mistral Dr
178-032-13	4048	Mistral Dr.	Kendzerski Edward A & Beth Ann	4048 Mistral Dr
178-032-14	4052	Mistral Dr.	Hommell Steven & Hommell Isabel	4052 Mistral Dr
178-034				
178-034-71	16262	Wayfarer Ln.	Zacate Anthony	16262 Wayfarer Ln
178-034-72	16266	Wayfarer Ln.	Hauk Mary L	16266 Wayfarer Ln
178-034-73	16272	Wayfarer Ln.	Wesley Jesse, Grace Patricia	16272 Wayfarer Ln
178-034-74	16276	Wayfarer Ln.	Wiltz John & Betty	Temple City
178-034-75	Por Lot A	Channel	Huntington Harbour Corp	4241 Warner Ave
178-062				
178-062-34	16396	Ardsley Cir.	Barron Brian P & Linda E	16396 Ardsley Cir
178-062-35	16392	Ardsley Cir	Monellion Chester E & Janice S	16392 Ardsley Cir
178-062-36	16386	Ardsley Cir	Medermott Sean D	16386 Ardsley Cir
178-062-37	16382	Ardsley Cir	Thomas Michael D	16382 Ardsley Cir
178-062-38	16376	Ardsley Cir	Zgen Glenn H & Lisa D	16376 Ardsley Cir
178-062-39	16372	Ardsley Cir.	Superstein Michael H	16372 Ardsley Cir
178-062-40	16366	Ardsley Cir	Perez Ricky B & Caroline R	16366 Ardsley Cir
178-062-41	16362	Ardsley Cir.	Mcmillan Gregory A. Sears III K	Escondido
178-062-42	4086	Humboldt Dr.	Inner Talents	4086 Humboldt Dr
178-062-43	4014	Humboldt Dr.	Trigon Robert P	11801 Martha Ann Dr Los Alamitos, CA
178-062-44	4024	Humboldt Dr.	Rickett Marsha Kay	4024 Humboldt Dr
178-062-45	4032	Humboldt Dr.	Carpenter Edward J	9 Oak Tree Dr Newport Beach, CA
178-062-46	4052	Humboldt Dr.	Mcauliffe Richard F	4052 Humboldt Dr
178-062-47	4062	Humboldt Dr.	Antoon Norris Sd. Mary S	2761 N Altadena Dr Pasadena, CA
178-062-48	4072	Humboldt Dr.	Aasdi Family Trust Aasdi 2010 Trust	Po Box 12216 Newport Beach, CA
178-062-49	Lot E	Channel	Zgen Glenn D	16376 Ardsley Cir
178-062-51	Por Lot C	Channel	Huntington Harbour Corp	4241 Warner Ave
178-062-52	Por Lot D	Channel	Huntington Harbour Corp	4241 Warner Ave
178-063				
178-063-06	4097	Humboldt Dr.	Kim Stephen L	4097 Humboldt Dr
178-063-07	4087	Humboldt Dr.	Kore Franklin N	4087 Humboldt Dr
178-063-08	4075	Humboldt Dr.	Andersen Mildred M	4075 Humboldt Dr
178-063-09	4025	Humboldt Dr.	Simpson Bradford C	4025 Humboldt Dr
178-063-10	4033	Humboldt Dr	Wadsworth Malcha C	4033 Humboldt Dr
178-063-11	4043	Humboldt Dr.	Vu Dinh	4043 Humboldt Dr
178-063-12	4051	Humboldt Dr	Nguyen Ly dan M Family Trust	4051 Humboldt Dr
178-063-13	16291	Wayfarer Ln.	Linch Joseph	16291 Wayfarer Ln
178-063-14	16287	Wayfarer Ln.	Morcos Joseph M & Reina D	16287 Wayfarer Ln
178-064				
178-064-01	16282	Wayfarer Ln.	Geoghegan Howard F	Unavailable
178-064-02	16286	Wayfarer Ln.	Tan Isaid H	16286 Wayfarer Ln
178-064-03	16292	Wayfarer Ln.	Lamb Donald R & Regina L	16292 Wayfarer Ln
178-064-04	16302	Wayfarer Ln.	Barrett Frederick L Jr	Po Box 336401 Laughlin NV
178-064-05	16312	Wayfarer Ln.	Bogart Flp	Po Box 194 Sunset Beach, CA
178-064-06	Por Lot B	Channel	Huntington Harbour Corp	4241 Warner Ave
178-064-07	Por Lot A	Channel	Huntington Harbour Corp	4241 Warner Ave
178-601				
178-601-13	16417	Wimbledon Ln.	Ware J Trust	16431 Harrowlight Cir
178-601-17	16415	Wimbledon Ln.	Rowlette Charles O	16415 Wimbledon Ln
178-601-18	16411	Wimbledon Ln.	Valles Russell L & Linda	16411 Wimbledon Ln
178-601-19	16411	Wimbledon Ln.	Pedersen Nanna K	16411 Wimbledon Ln
178-601-20	16401	Wimbledon Ln.	Brown Bryan P	16401 Wimbledon Ln
178-601-21	16397	Wimbledon Ln.	Hall Michael J & Melbourne R	1351 L Altadena Dr Altadena CA
178-601-22	16417	Wimbledon Ln.	Anda Juan F Trust	16417 Wimbledon Ln
178-601-23	16419	Wimbledon Ln.	Schultz Daniel J	Unavailable
178-601-24	16421	Wimbledon Ln.	Merrill David W	1697 W Lahon St Upland CA
178-601-25	16395	Wimbledon Ln.	Simpson Clay F	16395 Wimbledon Ln
178-601-26	16393	Wimbledon Ln.	L Watson Inc	16393 Wimbledon Ln
178-601-27	16391	Wimbledon Ln.	Mary P Ronald C	16391 Wimbledon Ln
178-601-28	16365	Wimbledon Ln.	Ansari Vivian Marie	16365 Wimbledon Ln
178-601-29	16361	Wimbledon Ln.	Han Family Investments Lp	1093 L Holt Ave Pomona, CA
178-601-30	16361	Wimbledon Ln.	Borden Bruce C	16361 Wimbledon Ln
178-601-31	16359	Wimbledon Ln.	Keeler Richard B & Deanna S	1847 66th St Manhattan Beach, CA
178-601-32	16357	Wimbledon Ln.	Russell Henry G & Kathryn J Trust	16357 Wimbledon Ln
178-601-33	16367	Wimbledon Ln.	Dow Randal & Susan	16367 Wimbledon Ln
178-601-34	16369	Wimbledon Ln.	Kenneth John, Mel Lee Han	298 Burning Green Dr Costa Mesa, CA
178-601-35	16371	Wimbledon Ln.	Appelbaum Trust	16371 Wimbledon Ln
178-601-36	16355	Wimbledon Ln.	Pyfer Marvin Ann	16355 Wimbledon Ln
178-601-37	16353	Wimbledon Ln.	Sanlow Family Survivors Trust	7213 Calera View Dr Fullerton, CA
178-601-38	16351	Wimbledon Ln.	Jeanette Peggy K	16351 Wimbledon Ln
178-601-58	4182	Raquet Club Dr.	Peavy Garrett D	4182 Raquet Club Dr
178-601-59	4176	Raquet Club Dr.	Ellis Douglas Lee	4176 Raquet Club Dr
178-601-60	4172	Raquet Club Dr.	Vasquez Estebanez	4172 Raquet Club Dr
178-601-61	4166	Raquet Club Dr.	Bo-Linn Family Trust	4166 Raquet Club Dr
178-601-62	4162	Raquet Club Dr.	Monson Carl L	4162 Raquet Club Dr
178-601-63	4156	Raquet Club Dr.	Eddie Keith G	2156 Raquet Club Dr
178-601-64	Lot A	Wimbledon Ln.	Tarson Estates Homeowners	Po Box 1098 Westminster, CA
178-601-65	Lot B	Channel	M & H Builders	16315 Sq Inish Ln
178-611				
178-611-04	16312	Mandalay Cir.	Newman Irving & Marge J	16312 Mandalay Cir
178-611-05	16292	Mandalay Cir.	Johnson Ron M & Jennifer M	Po Box 1906
178-612				
178-612-03	16231	Santa Barbara Ln.	Ly Dinan	16231 Santa Barbara Ln
178-612-04	16241	San Clemente Cir.	Lynch Living Trust, Lynch Greg Trust	16241 San Clemente Cir
178-612-05	16251	San Clemente Cir.	Moss David Neil	16251 San Clemente Cir
178-612-06	16261	San Clemente Cir.	Chieh Daniel	16261 San Clemente Cir
178-612-07	16262	San Clemente Cir.	Reilly John H Iv	16262 San Clemente Cir
178-612-08	16252	San Clemente Cir.	Pimentel-Robbins Jr & Robert M	16252 San Clemente Cir
178-612-09	16235	Santa Barbara Ln.	Richards William A	16235 Santa Barbara Ln
178-612-10	16241	Santa Barbara Ln.	Clark Family Trust	16241 Santa Barbara Ln
178-612-11	16245	Santa Barbara Ln.	Black Joseph L	16245 Santa Barbara Ln
178-612-12	16261	Mandalay Cir.	Townsend Steven G Family Trust, Ma Ray	16261 Mandalay Cir
178-612-13	16271	Mandalay Cir.	Kaur Surya M	16271 Mandalay Cir
178-612-14	16281	Mandalay Cir.	Li Yaoming	16281 Mandalay Cir
178-612-15	16291	Mandalay Cir.	Hopper Darrell R	16291 Mandalay Cir
178-612-16	16311	Mandalay Cir.	Hopper Nancy J	16311 Mandalay Cir
178-612-17	4171	Humboldt Dr	Brenner Laura	1535 N Pioneer Rd Walnut, CA
178-612-18	Por Lot H	Channel	Harbour Towers Lp	96 Corporate Park, #300 Irvine, CA
178-612-19	Por Lot K	Channel	Harbour Cove Lp	96 Corporate Park, #300 Irvine, CA
178-612-20	Note	Channel	City Of Huntington Beach	Po Box 190

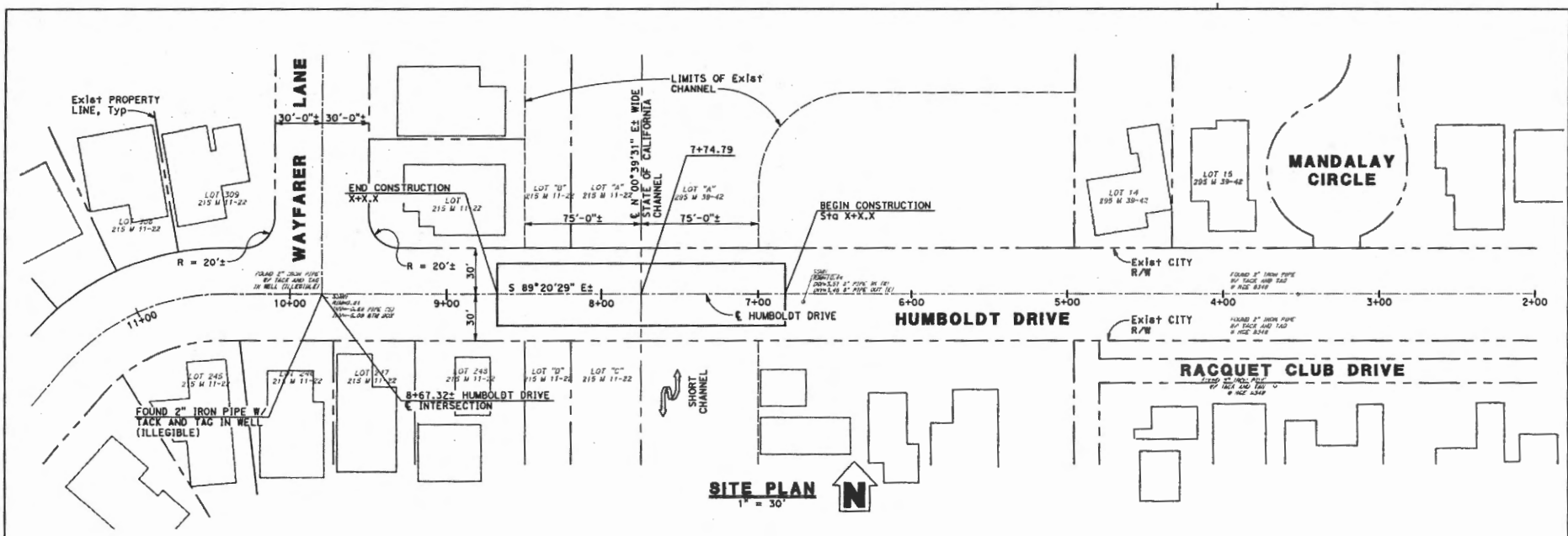
Source: City of Huntington Beach

COASTAL COMMISSION

EXHIBIT # 1

PAGE 3 OF 3

Legend	
	100-Foot Radius
	500-Foot Radius



COASTAL COMMISSION

5-15-1904

EXHIBIT # 2

PAGE 1 OF 4

BENCHMARKS AND BASIS OF BEARINGS:

HORIZONTAL CONTROL:
THE HORIZONTAL COORDINATES OF THIS SURVEY ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NAD, (1991.35 EPOCH OCS GPS ADJUSTMENT).
THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 5101 & CONTROL STATION GPS NO. 5102R1, BEING N89°E5'25"W PER O.C.S. HORIZONTAL CONTROL DATA SHEET ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY.

VERTICAL CONTROL:
POINT NO. MB-240-75
FOUND 3½" ALUMINUM DISK
ELEVATION = 9.707' (NAVD 88)

HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION C.C. No. 1356

PLAN CHECK SET/NOT FOR CONSTRUCTION (4/1/13)

Underground Service Alert — Call: 811 — TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'D

REFERENCES

SIGGINS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERING

DRAWN BY	DN	3/25/2013
DESIGNED BY	RBS	3/25/2013
CHECKED BY		

PREPARED UNDER THE SUPERVISION OF:
Michael A. Thomas PRINCIPAL, R.E. DATE
R.C.E. NO.: 54678 EXP. DATE: 9/30/14
APPROVED BY:
G. Todd Grossman, PRINCIPAL, C.E. DATE
R.C.E. NO.: 057146 EXP. DATE: 12/31/13

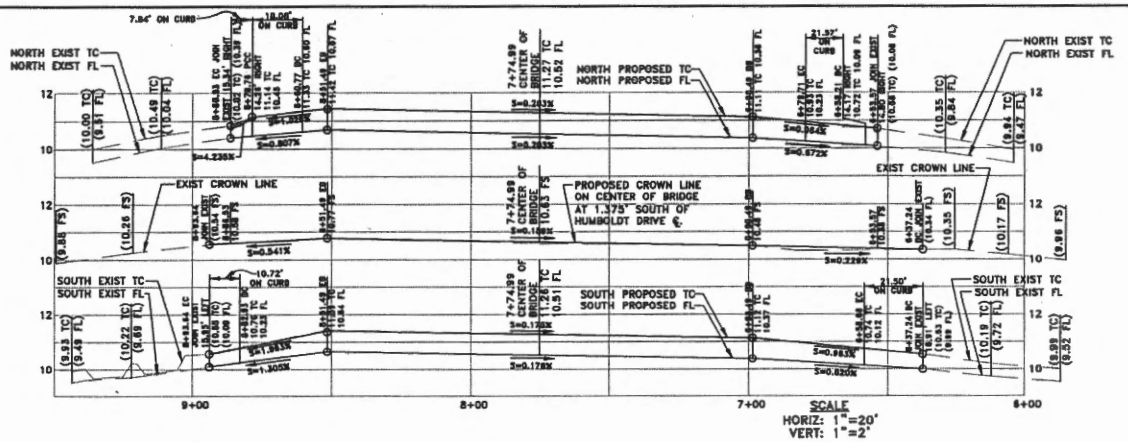
REGISTERED PROFESSIONAL ENGINEER — MICHAEL A. THOMAS — No. 54678 — Exp. 9/30/14 — STRUCTURAL — STATE OF CALIFORNIA

CITY OF HUNTINGTON BEACH DEPARTMENT OF PUBLIC WORKS

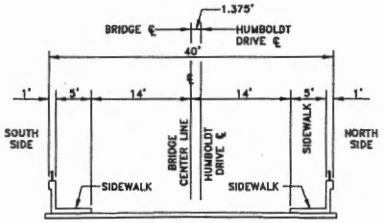
SITE PLAN
HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION
(OVER SHORT CHANNEL)
STA. X+X.X TO STA. X+X.X

SHEET NO. 2 OF 8 — T2

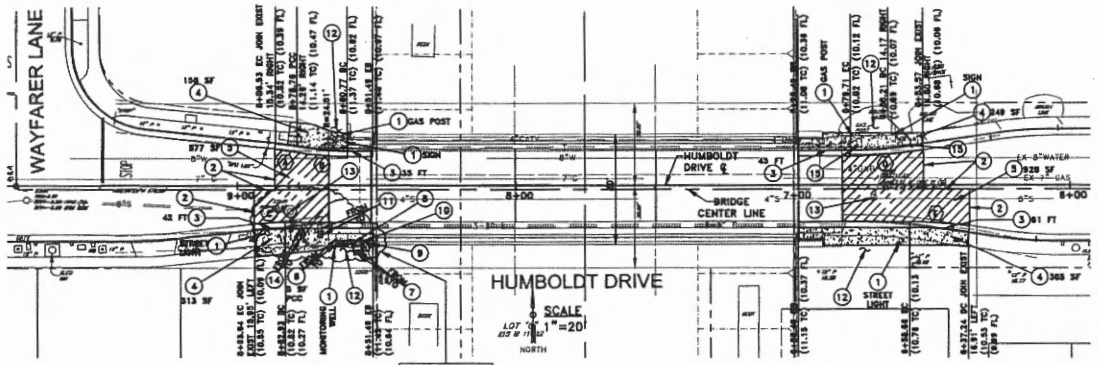
C:\01021\E1T2D 2010211



SCALE
HORIZ: 1"=20'
VERT: 1"=2'

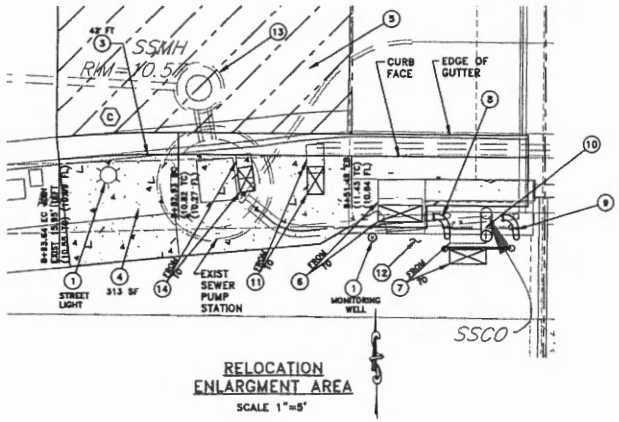


BRIDGE TYPICAL SECTION
LOOKING WEST
NOT TO SCALE



SCALE 1"=20'

SEE RELOCATION ENLARGEMENT AREA AT RIGHT



RELOCATION ENLARGMENT AREA
SCALE 1"=5'

CONSTRUCTION NOTES:

1. PROTECT IN PLACE.
2. SAWCUT.
3. SAWCUT AND REMOVE EXIST VARIABLE 6" TO 10" CURB AND GUTTER AND CONSTRUCT VARIABLE 6" TO 10" CURB AND 2' GUTTER (A2) PER SSPWC STD PLAN 120-2.
4. SAWCUT AND REMOVE EXIST 4" PCC SIDEWALK AND CONSTRUCT 4" PCC SIDEWALK.
5. REMOVE EXIST AC AND BASE AND CONSTRUCT 3" AC PG 64-16 ON 6" CMB ON 6" SCARIFIED SUBGRADE COMPACTED TO 95%. APPLY SS-1h TACK COAT ON ALL AC PAVING JOINS.
6. RELOCATE EXIST EDISON ELECTRIC PANEL AND CABINET 0.62' SOUTH OF EXIST LOCATION.
7. RELOCATE EXIST SEWER PUMP STATION ELECTRIC METER PANEL AND CABINET 2.50' SOUTH OF EXIST LOCATION.
8. RELOCATE EXIST 6" SEWER PUMP STATION AIR EXHAUST VENT 2.50' SOUTH OF EXIST LOCATION PER DETAIL NO. XX ON DETAIL SHEET C2.
9. RELOCATE EXIST 6" SEWER PUMP STATION AIR INTAKE VENT 2.50' SOUTH OF EXIST LOCATION PER DETAIL NO. XX ON DETAIL SHEET C2.
10. RELOCATE EXIST EDISON PULL CAN 2.50' SUTH OF EXIST LOCATION.
11. RELOCATE EXIST WATER METER AND BOX SOUTH TO BE 1.00' CLEAR OF CURB FACE.
12. REMOVE AND REPLANT EXIST LANDSCAPING IN KIND AND RELOCATE, REPAIR, OR REPLACE EXIST IRRIGATION SYSTEM IN KIND.
13. ADJUST SEWER MANHOLE COVER TO GRADE.
14. RELOCATE EXIST SEWER PUMP STATION EMERGENCY DISCHARGE BOX TO BE 1.00' CLEAR OF CURB FACE.
15. RELOCATE EXIST UTILITY BOX TO GRADE.

GENERAL NOTES:

1. ALL UTILITY BOXES, FRAMES, AND COVERS WITHIN PROJECT RECONSTRUCTION OR NEW CONSTRUCTION AREAS SHALL BE SET TO GRADE.

LEGEND
AC = ASPHALT CONCRETE
DK = DECK
EG = EDGE OF GUTTER
EX = EXISTING
EXIST = EXISTING
FL = FLOW LINE
L = LENGTH
PCC = PORTLAND CEMENT CONCRETE
RHMA = RUBBER HOT MIX ASPHALT
SSPWC = STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
TC = TOP OF CURB
(10.52) = EXISTING ELEVATION

CURB CURVE DATA				
NO.	Δ	R	L	T
A	N 4°22'39" W	100.00'	7.64'	3.82'
B	N 10°21'33" W	100.00'	18.08'	9.06'
C	N 8°08'32" W	100.00'	10.72'	5.37'
D	N 8°14'21" W	150.00'	21.57'	10.80'
E	N 8°12'45" W	150.00'	21.50'	10.77'

BASIS OF BEARINGS
THE HORIZONTAL COORDINATES OF THIS SURVEY ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, 1983 NAD, (1991.35 EPOCH OCS GPS ADJUSTMENT). THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. 5101 & CONTROL STATION GPS NO. 01000R1, BEING N66°23'26.W PER O.C.S. HORIZONTAL CONTROL DATA SHEET ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY

BENCH MARK
POINT NO. HB-240-75
FOUND 3½" ALUMINUM DISK
ELEVATION = 8.707' (NAVD 88)

Underground Service Alert
Call 811
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES

W.O. ZIMMERMAN ENGINEERING, INC.
5772 BOLSA AVE SUITE 200
HUNTINGTON BEACH, CA 92649
TEL: (714) 799 1700
FAX: (714) 799 1701

DRAWN BY:	RC	3/29/2013
DESIGNED BY:	RB	3/29/2013
CHECKED BY:	RC	3/29/2013

PREPARED UNDER THE SUPERVISION OF:
WILLIAM O. ZIMMERMAN, P.E. DATE
R.C.E. NO.: 46867 EXP. DATE: 6/30/2014
APPROVED BY:
M. Todd Broussard PRINCIPAL C.E. DATE
R.C.E. NO.: 63744 EXP. DATE: 12/31/13

CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS

CIVIL PLAN
HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION
(OVER SHORT CHANNEL)
STA. X+XX.XX TO STA. X+XX.XX

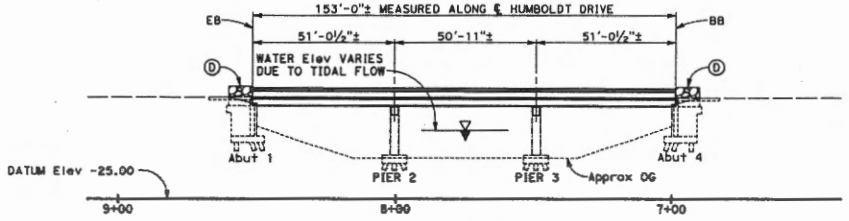
SHEET NO. 3 OF 8
C1

FILE JOB

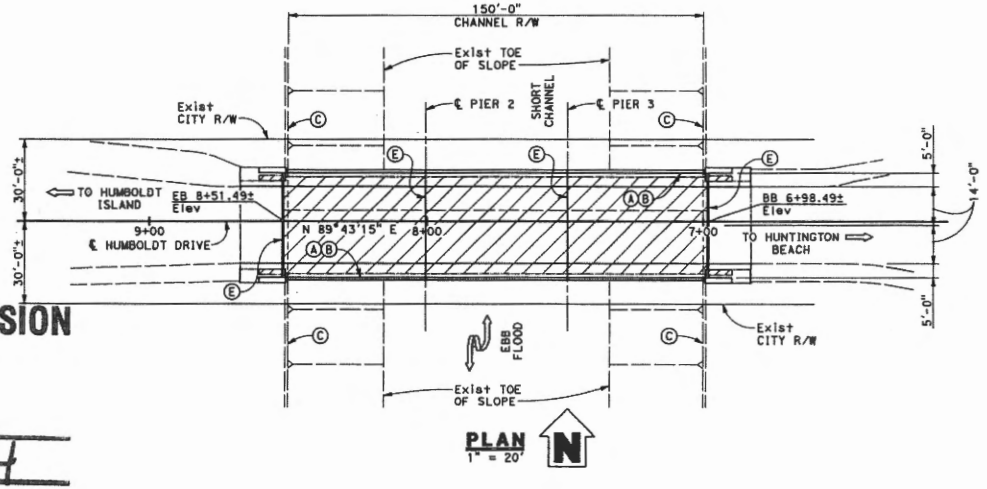
HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION C.C. No. 1356

COASTAL COMMISSION

EXHIBIT # 2
PAGE 2 OF 4



ELEVATION
1" = 20'



PLAN
1" = 20'

NOTES:
- (A) Paint "BRIDGE No. 55C-0284"
- (B) Paint "SHORT CHANNEL BRIDGE"
- (C) Existing Bulkhead Wall
- (D) Stone faced wall
- (E) Joint Seal (MR = ½"), full width
1. For "TYPICAL SECTION" see "GENERAL PLAN No. 2" sheet
2. For General Notes and Index to Bridge Plans ,see "GENERAL NOTES" sheet

LEGEND:
- Indicates portion of existing bridge to be removed and replaced
- Indicates existing structure
- Indicates new construction
- Indicates direction of travel
- Indicates unsound concrete to be removed and patched

HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION C.C. No. 1356

COASTAL COMMISSION

EXHIBIT # 2
PAGE 3 OF 4

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN CHECK SET/NOT FOR CONSTRUCTION (4/1/13)

Underground Service Alert
Call: 811
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'D

REFERENCES

RIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS
BSR

DRAWN BY	DN	3/28/2013
DESIGNED BY	RBB	3/28/2013
CHECKED BY		

PREPARED UNDER THE SUPERVISION OF
Richard A. Thomas PRINCIPAL S.E. DATE
R.S.E. NO.: 54878 EXP. DATE: 9/30/14
APPROVED BY
E. Todd Broussard PRINCIPAL C.E. DATE
R.C.E. NO.: 057144 EXP. DATE: 12/31/13

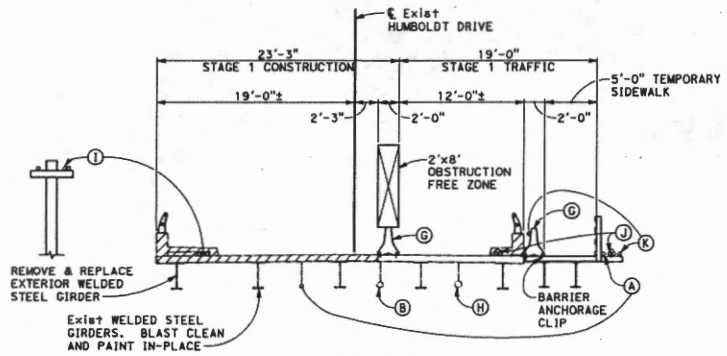
REGISTERED PROFESSIONAL ENGINEER RICHARD A. THOMAS No. 54878 Exp. 9/30/14 STRUCTURAL STATE OF CALIFORNIA

CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS

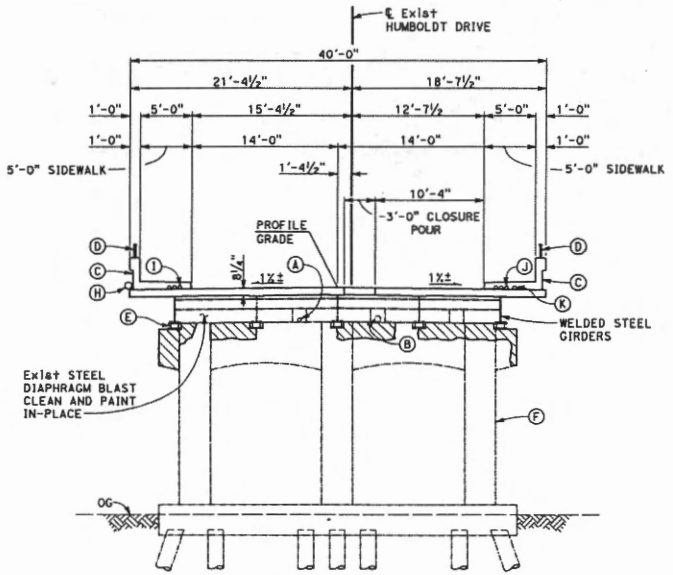
GENERAL PLAN No. 1
HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION
(OVER SHORT CHANNEL)
STA. X+X.X TO STA. X+X.X

SHEET NO. 6 OF 8
S1

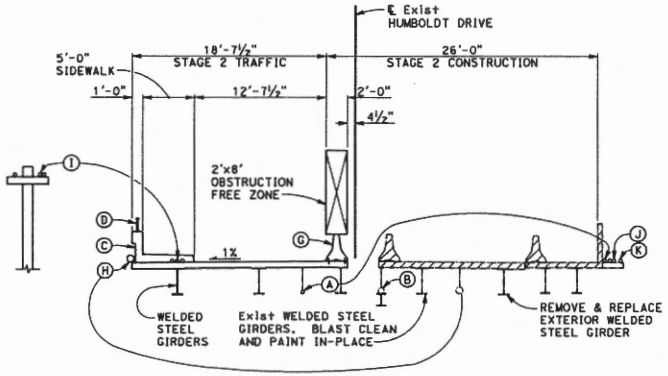
(2010211E151) 2010211



STAGE 1
TYPICAL SECTION
3/16" = 1'-0"



FINAL STAGE
TYPICAL SECTION
3/16" = 1'-0"



STAGE 2
TYPICAL SECTION
3/16" = 1'-0"

LEGEND:

- Indicates portion of existing bridge to be removed and replaced
- Indicates existing structure
- Indicates new construction
- Indicates unsound concrete to be removed and patched

NOTES:

(A) Existing 4" dia City sewer line to be removed, temporarily relocated, replaced with 4-inch stainless steel pipe and restored to its original location under the bridge
(B) Existing 7" dia Southern California Gas (SCG) gas line to be temporarily supported and protected in place
(C) Concrete Barrier Type 26
(D) Tubular Handrailing (Mod)
(E) Existing steel bearings, remove and replace with elastomeric pads
(F) Existing Pier
(G) Temporary Railing Type K, see "ROAD PLANS"
(H) Existing 8" dia City water line to be removed and replaced with 8-in ductile iron pipe and permanently relocated to the outer edge of the bridge
(I) Existing 3-4" dia high voltage Southern California Edison (SCE) lines to be temporarily relocated and supported during construction
(J) Existing 3-4" dia Verizon telephone lines to be temporarily relocated and supported during construction
(K) Existing 4" Time Warner cable line to be relocated and supported during construction

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN CHECK SET/NOT FOR CONSTRUCTION (3/6/15)

Underground Service Alert
Call: 811
TWO WORKING DAYS BEFORE YOU DIG

COASTAL COMMISSION

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'D

REFERENCES

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
BBK

DRAWN BY: DM 3/28/2013
DESIGNED BY: RSB 3/28/2013
CHECKED BY:

PREPARED UNDER THE SUPERVISION OF:
Richard A. Thomas PRINCIPAL C.E. DATE
R.C.E. NO.: 54675 EXP. DATE: 9/30/14
APPROVED BY:
M. Todd Broussard PRINCIPAL C.E. DATE
R.C.E. NO.: C57144 EXP. DATE: 12/31/13

REGISTERED PROFESSIONAL ENGINEER
RICHARD A. THOMAS
No. 54675
Exp. 9/30/14
CIVIL
STATE OF CALIFORNIA

CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS

GENERAL PLAN No. 2
HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION
(OVER SHORT CHANNEL)
STA. X+X.X TO STA. X+X.X

SHEET NO. 7 OF 8
S2

(20100211E152) 20100211

HUMBOLDT DR HIGHWAY BRIDGE REHABILITATION C.C. No. 1356

EXHIBIT # 2
PAGE 4 OF 4