

CALIFORNIA COASTAL COMMISSION

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CALIFORNIA COASTAL COMMISSION

LCP PLANNING

GRANT APPLICATION FORM

MARCH 28, 2016

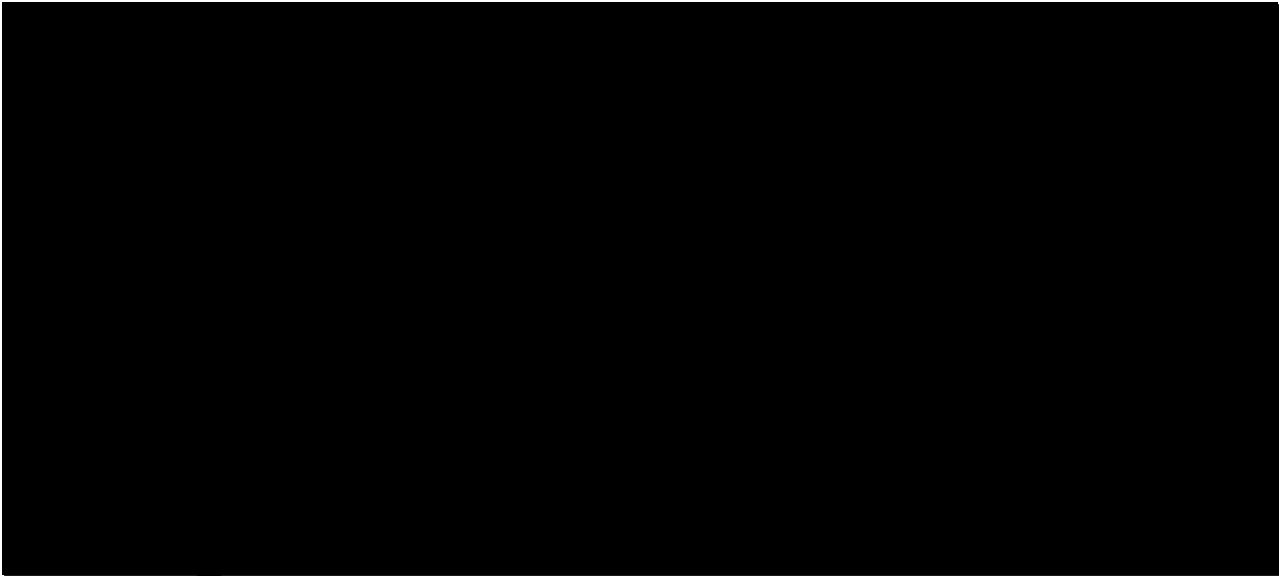
The California Coastal Commission is pleased to announce the availability of Round 3 grant funding to support local governments in developing or updating Local Coastal Programs (LCPs) pursuant to the California Coastal Act and with special emphasis on addressing impacts from climate change and sea-level rise. For Fiscal Year 2015-2016, Governor Brown approved an augmentation of \$3 million to the California Coastal Commission's budget to support local governments responsible for planning under the California Coastal Act (Coastal Act) to develop or update their Local Coastal Programs. A full description of the grant program is available here: <http://www.coastal.ca.gov/lcp/lcpgrantprogram.html>.

Coastal Commission staff is available to work with local governments and to assist during the application process. Please note the entire grant application will be public record upon submittal. Click in the shaded text fields to enter text, numbers and dates. The fields will expand to accommodate the data.

Grant applications are due by **May 20, 2016 at 5 pm.**

APPLICANT INFORMATION

Applicant name (agency): City of Dana Point



PROJECT INFORMATION

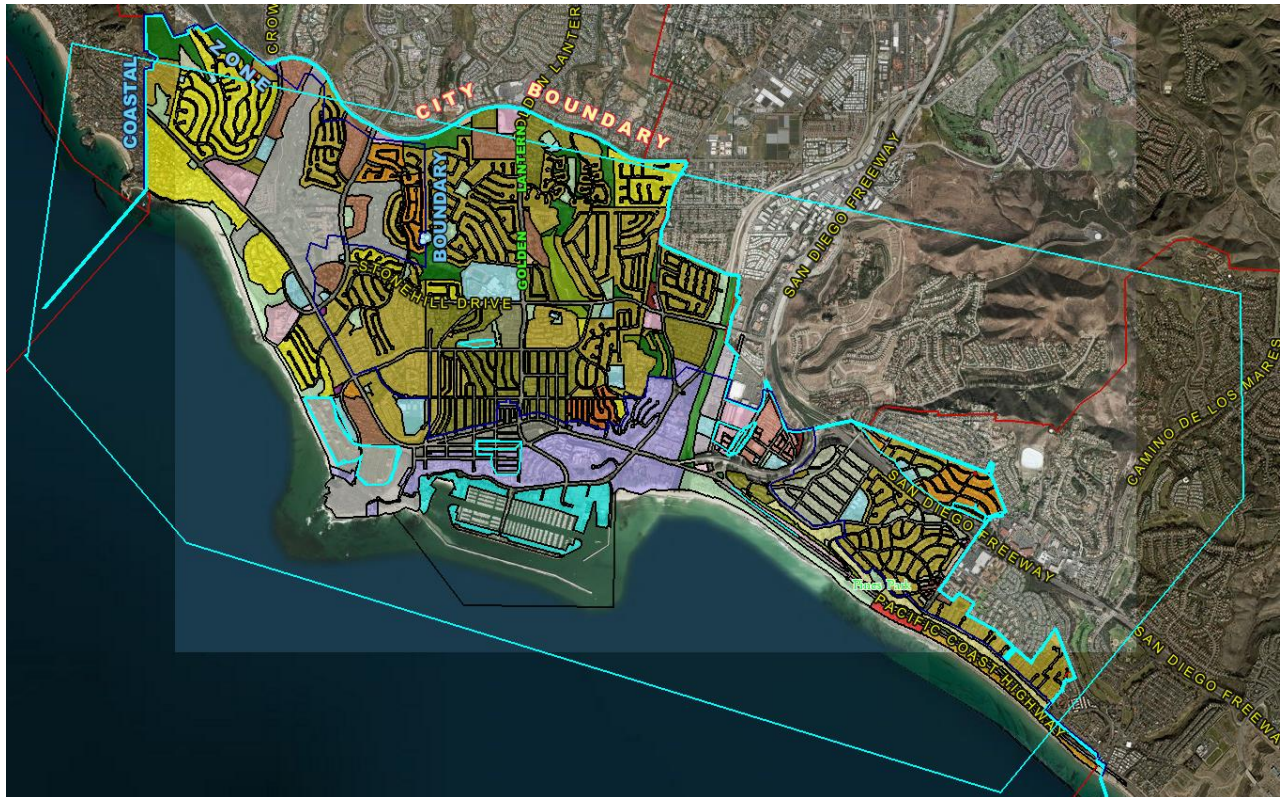
Project title: City of Dana Point Local Coastal Program (LCP) Planning and Sea Level Rise Update

LCP/ LCP Segment: Dana Point / South Coast Division

Project location: City / Geographic area: Dana Point County: Orange County

Project timeline: Start date: 6/15/16 End date: 9/15/2018

MAPS AND PHOTOS



1. PROJECT DESCRIPTION:

a. GOALS AND OBJECTIVES

The project is City of Dana Point Local Coastal Program (LCP) Planning and Sea Level Rise Update that will achieve the following goals and objectives:

Goal 1

Perform an inventory of Dana Point's coastal resources to better understand vulnerable resources that may be affected by Sea Level Rise.

Objective 1.1 Obtain current baseline data for Dana Point coastline including beach profile measurements;

Objective 1.2 Conduct a study of Dana Point's coastal infrastructure resources;

Objective 1.3 Conduct biodiversity studies of Dana Point's marine resources; and

Objective 1.4 Prepare a geo-referenced inventory of resources that will be affected by SLR.

Goal 2

Determine the potential impacts of Sea Level Rise on our coastal resources.

Objective 2.1 Work in coordination with various owners of beach areas including but not limited to: Beach Road, County of Orange, OC Parks, California State Parks, County of Orange OC Dana Point Harbor.

Objective 2.2 Review available studies and beach profiles and establish a 100 year run-up line city wide.

Objective 2.3 Model SLR scenarios in conjunction with other coastal flooding factors, including storm waves, tsunamis, riverine, and upland flooding sources.

Objective 2.4 Conduct a fiscal impact analysis for various adaptation approaches e.g. the cost of losing beach (to coastal recreation and local economy) vs. cost of relocating existing development inland vs. cost of protecting development in place.

Objective 2.5 Determine potential options for retreat including areas currently with shoreline protection (e.g. areas north of the Dana Point Harbor/Headlands).

Goal 3

Establish policies and adaptation measures for sea level rise based on current data, analyses of existing conditions and trends in the Coastal Zone. Comprehensively update Dana Point's existing LCP to ensure consistency with the California Coastal Act, as well as Dana Point's updated General Plan to address issues.

Objective 3.1 Identify and adopt policies for SLR into a policy document such as the General Plan which will also comprise an integral portion and the LUP portion of the City's amended LCP.

Objective 3.2 Update the LCPA with CCC.

b. APPROACH

Task 1. Initiation and Consultant Recruitment

This task will initiate the grant by executing the grant agreement with the CCC and determine the information and resources needed to complete the goals and objectives. RFPs will be prepared for technical help with gathering data and conducting sea level rise modeling. Once consultant(s) are under contract an updated work program and schedule will be developed and submitted to the CCC.

Deliverables:

1. RFP for consultant
2. Updated work program and schedule

Task 2. Public and Stakeholder Outreach Meetings

The City will lead a series of public project meetings with key stakeholders to discuss coastal hazard modeling and vulnerability. Key stakeholders include but are not limited to: Beach Road management, County of Orange, OC Parks, California State Parks, and County of Orange OC Dana Point Harbor.

Deliverables:

1. Meeting minutes; and
2. Stakeholder contact list.

Task 3. Coastal Resource Database

City staff, hired consultant (s), and cooperating stakeholders are anticipated to provide social, economic, coastal armoring, water control structures (e.g. storm drains, tide gates, levees, culverts) and ecological resources data for their jurisdiction/authority/influence. The City will compile the data and all data will be shared with the Coastal Commission including the update to the shoreline armoring data set. The consultant(s) will integrate the digital information into GIS and compile the individual jurisdictional information into a spatial data set. The City will coordinate with the Coastal Commission's mapping unit to obtain any useful data sets, and to determine protocols for developing LCP maps.

The following data will be obtained and integrated:

- *Infrastructure and asset data* – to be provided in digital form by local jurisdictions;
- *Habitat data* – to be provided in digital format by hired consultant; and
- *Coastal armoring* – the consultant will improve the 2006 Coastal Commission

armoring data set with improved spatial location and crest elevations based on LIDAR or jurisdictional supplied survey data. To the extent feasible, the consultant and/or City staff will evaluate the legal status of existing coastal armoring and permit numbers, dates, and other relevant data will be included in the attributes of the spatially-explicit regional GIS database.

Deliverables:

1. Summary table of all acquired and relevant data sets; and
2. GIS shapefiles with metadata of the compiled spatially-explicit regional GIS database.

Task 4. Model and Map Coastal Resources for Climate Scenarios

Task 4.1 Collect nearshore data

The consultant will utilize available LIDAR including the State funded LIDAR (2010/11), the NOAA, NASA, USGS LIDAR (1997 and 1998), and potentially other relevant topographic data sets. The consultant will also use readily available offshore depth data sets and interpolate between LIDAR and underwater depths, as appropriate. Readily available nearshore profile data from BEACON will be reviewed to inform the profile generation. The consultant will analyze a range of beach profiles from multiple seasons, at defined spacings along the shoreline, and extract the following information:

1. Beach slopes (important for calculating wave run-up);
2. Backshore toe elevation (important for calculating erosion potential);
3. Establish a 100 year run-up line city wide; and
4. Crest elevation (important for calculating wave overtopping and flooding).

Task 4.2 Model SLR scenarios along the Dana Point coast

The consultant will model physical processes necessary to identify planning level changes to the extent feasible given existing data in future coastal erosion and coastal flooding hazards. The coastal hazard modeling will be based on the best available science on sea level rise, and will be consistent with the DRAFT guidance of sea level rise by the California Coastal Commission, and the final guidance once approved by the Commission. The consultant will initiate modeling using CoSMoS 3.0 and then make specific recommendation based on outputs. This will include modeling of at least three (3) sea level rise scenarios and three (3) planning horizons (plus existing conditions). The consultant will develop current and future impacts from sea level rise hazards will be identified based on scenarios of sea level rise projections, some of which will incorporate extreme events. Potential physical sea level rise impacts in the LCP planning area will be identified including inundation, flooding, wave impacts, erosion and saltwater intrusion impacts. The flood analysis will examine direct connectivity through channels, conduits, pipes, storm drains, as well as storm-related impacts. Flood and wave impacts will examine, among other scenarios, the impact from a 100-year storm event when the beach is narrowed by both seasonal erosion and long-term erosion.

Deliverables:

1. Maps, GIS shapefiles, graphics, figures, charts, tables, descriptions or other systems will be prepared to communicate the impacts of current and future hazards and changes to current and future coastal resources, including beaches and coastal streams that may be restricted from future migration by natural or human-constructed barriers

Task 5. Conduct a SLR Vulnerability/Risk Assessment for Infrastructure, Economic and Ecological Conditions

Task 5.1 Assess land uses at risk

Data collected in Task 4 will allow planners, decision makers, and stakeholders to analyze social, economic, and ecological conditions and their relative vulnerability to coastal hazards. Land uses that are at risk will be assessed to determine the impacts of current and future hazards that were developed in Task 3.

Task 5.2 Describe elements of risk assessment and identify potential risks

Develop descriptions of the characteristics that influence risk, including exposure, sensitivity, and adaptive capacity of each coastal resource to sea level rise impacts, along with the expected consequences of those impacts for the resource and broader community. Assess potential risks, or potential problems, from sea level rise to coastal resources and development in Dana Point's LCP planning area; including assessing whether current and planned land uses are feasible given those impacts and if those land uses should be revised accordingly.

Task 5.3 Create strategies and adaption measure to deal with risk

Develop adaptation measures to minimize risks from hazards and to protect coastal resources. Evaluate and prioritize adaptation measures according to ability to both minimize hazards and protect coastal resources. Develop strategies and new or revised land use designations, policies and standards to address sea level rise impacts and risks to coastal resources. Specify criteria for assessing these measures, identify sections of the LCP that need to be updated, list adaptation measures applicable to the LCP for each hazard and/or coastal resource, and identify new policies and ordinances to implement the adaptation measures. Determine potential options for retreat including areas currently with shoreline protection.

Task 5.4 Inform stakeholders and partners in areas of potential risk according to draft sea level rise scenarios.

The City will qualitatively evaluate the costs and benefits of potential adaptation strategies. The costs and benefits assessment will evaluate the ability of adaptation strategies to protect coastal resources, protect California's most vulnerable populations, reduce greenhouse gas emissions, and achieve multiple benefits. A quantitative evaluation of the costs and benefits of potential adaptation

Deliverables:

1. Technical methods report which describes the specific methods and assumptions for the modeling and mapping of the coastal erosion, tidal inundation, coastal flooding, and wave impact hazards.
2. Draft City of Dana Point Coastal Hazard Vulnerability Assessment.
3. Incorporation of stakeholder and Coastal Commission comments into Vulnerability Assessment.

Task 6. Draft LCP Amendment

The City working with staff and various consultants are in the process of conducting a comprehensive General Plan (GP) Update including State mandated elements and incorporation of an existing draft, optional Economic Development Element. Portions of the City's Local Coastal Program (LCP) are incorporated into various elements of the General Plan and related plans. The General Plan and the related plans will be reviewed and a stand-alone Coastal Land Use Plan (CLUP) will be developed for incorporation into the LCP for certification by the California Coastal Commission. This CLUP will serve as a more narrowly focused version of the General Plan for portions of the City located within the Coastal Zone.

Task 7. Coastal Commission Coordination and Review

The City will provide an initial draft of the LCP amendment to Coastal Commission district staff for review and comments prior to environmental review, public hearings, and any formal LCP amendment submittal. The City will prepare the Draft LCP Amendment pursuant to the iterative review and feedback process with Commission staff.

Task 8. Environmental Review

The comprehensive General Plan Update which includes amendments to the LCP will undergo environmental review. An initial study will be conducted for the proposed General Plan Update and LCP policies. It is anticipated that the proposed LCP policies will have impacts that are beneficial to the environment, therefore a mitigated negative declaration or environmental impact report would not be warranted.

Task 9. Decision Maker Hearings

The findings and new and enhanced existing policies would be presented to the decision makers in public hearings, allowing for further public input. The City will review changes to the LCP Amendment from the decision maker hearings with Commission staff through an iterative exchange of comments as needed.

Task 10. Formal LCP Amendment Submittal to Coastal Commission

After decision-maker hearings, City staff will submit the LCP Amendment to the California Coastal Commission (CCC) for approval, in compliance with the LCP amendment submittal requirements of the Coastal Act and the California Code of Regulations.

Task 11. Post-Grant Coordination and Certification Process

Once the County's LCP Amendment has been approved by the California Coastal Commission, County staff will present the approved LCP Amendment to the Board of Supervisors for final acceptance of any suggested modifications by the Commission. Lastly, County staff will incorporate the LCP Amendments, as certified by the CCC, into the Coastal Land Use Plan and Coastal Zoning Ordinance documents and provide Commission staff with an electronic copy of the final documents.

2. WORK PROGRAM AND SCHEDULE.

Task 1. Initiation and Consultant Recruitment	Projected start/end dates: 6/20/2016/ 9/1/2016
<i>Outcome/Deliverables:</i> RFP for consultant, updated work program and schedule	Projected start/end dates: 6/20/2016/ 9/1/2016
Task 2. Public and Stakeholder Outreach Meetings	Projected start/end dates: 9/15/2016/ 10/15/2016
<i>Outcome/Deliverables:</i> Meeting minutes; and Stakeholder contact list.	Projected start/end dates: 9/15/2016/ 10/15/2016
Task 3. Coastal Resource Database	Projected start/end dates: 9/15/2016/ 3/1/2017
<i>Outcome/Deliverables:</i> Summary table of all acquired and relevant data sets; and GIS shapefiles with metadata of the compiled spatially-explicit regional GIS database.	Projected start/end dates: 9/15/2016/ 3/1/2017
Task 4. Model and Map Coastal Resources for Climate Scenarios	Projected start/end dates: 3/1/2017/ 9/1/2017
Task 4.1 Collect nearshore data, including biodiversity sampling	Projected start/end dates: 3/1/2017/ 6/1/2017
Task 4.2 Model SLR scenarios along the Dana Point coast	Projected start/end dates: 3/1/2017/ 9/1/2017
<i>Outcome/Deliverables:</i> Maps, GIS shapefiles, graphics, figures, charts, tables, descriptions or other systems will be prepared to communicate the impacts of current and future hazards and changes to current and future coastal resources, including beaches and coastal streams that may be restricted from future migration by natural or human-constructed barriers	Projected start/end dates: 3/1/2017/ 9/1/2017
Task 5. Conduct a SLR Risk Assessment for Infrastructure, Economic and Ecological Conditions	Projected start/end dates: 9/1/2017/ 3/1/2018
Task 5.1 Assess land uses at risk	Projected start/end dates: 9/1/2017/ 3/1/2018
Task 5.2 Describe elements of risk assessment and identify potential risks	Projected start/end dates: 9/1/2017/ 3/1/2018
Task 5.3 Create strategies and adaption measure	Projected start/end dates: 9/1/2017/ 3/1/2018

to deal with risk	
Task 5.4 Inform stakeholders and partners in areas of potential risk according to draft sea level rise scenarios.	Projected start/end dates: 9/1/2017/ 3/1/2018
<i>Outcome/Deliverables:</i> Technical methods report which describes the specific methods and assumptions for the modeling and mapping of the coastal erosion, tidal inundation, coastal flooding, and wave impact hazards.	Projected start/end dates: 9/1/2017/ 3/1/2018
Task 6. Draft LCPA	Projected start/end dates: 6/1/2016/ 4/2/2018
Task 7. Coastal Commission Coordination and Review of Draft LCP Amendment	Projected start/end dates: 3/1/2018/ 4/2/2018
Task 8. Environmental Review	Projected start/end dates: 4/1/2018/ 6/1/2018
Task 9. Decision Maker Hearings	Projected start/end dates: 6/1/2018/ 8/1/2018
Task 10. Formal LCP Amendment Submittal to Coastal Commission	Projected start/end dates: 8/1/2018/ 9/1/2018
Task 11. Post-Grant Coordination and Certification Process	Projected start/end dates: 9/1/2018/ 10/1/2018

BENCHMARK SCHEDULE

ACTIVITY	COMPLETION DATE
RFP for consultant	9/1/2016
Public and Stakeholder Outreach Meetings	10/1/2016
Coastal Resource Database	3/1/2017
Model and Map Coastal Resources for Climate Scenarios	9/1/2017
SLR Risk Assessment for Infrastructure, Economic and Ecological Conditions; including, technical methods report which describes the specific methods and assumptions for the modeling and mapping of the coastal erosion, tidal inundation, coastal flooding, and wave impact hazards.	3/1/2018
Draft LCP Amendment	4/2/2018
Environmental Review of LCPA	6/1/2018
Local Approval of LCPA	8/1/2018
Formal LCP Amendment Submittal to Coastal Commission	9/1/2018

3. BUDGET

Funding Request: \$ 135,000.00

Total Project Cost: \$ 667,260.00

Task Number	Task Name	Total Cost	Allocation of total cost among all funding sources			
			Applicant's Funding	LCP Grant Funding	Other Funds	Other Funds (define below)
1	<i>RFP/Consultant</i>	\$ 10,000	\$ 10,000			
2	<i>Outreach</i>	\$ 25,000	\$ 20,000	\$ 5,000		
3	<i>Coastal Resources</i>	\$ 50,000	\$ 10,000	\$ 50,000		
4	<i>SLR Modeling</i>	\$ 60,000	\$ -	\$ 60,000		
5	<i>Vulnerability Study</i>	\$ 20,000	\$ -	\$ 10,000		
6	<i>LCPA Draft</i>	\$ 475,000	\$ 100,000	\$ 10,000	\$ 125,000	
7	<i>CCC Cordination</i>	\$ 10,000	\$ 10,000			
8	<i>Env. Review</i>	\$ 2,260	\$ 2,260			
9	<i>Policy Hearings</i>	\$ 5,000	\$ 5,000			
10	<i>LCPA Submittal</i>	\$ 5,000	\$ 5,000			
11	<i>Post Grant</i>	\$ 5,000	\$ 5,000			
TOTAL		\$667,260	\$167,260	\$135,000	\$125,000	\$0

* \$125,000 for funding for Task 6 has been a Sustainability Program Grant (SPG) administered by the Southern California Association of Governments (SCAG) as another step in implementing the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS).

	Applicant's Funding	CCC Grant Funding	OPC Grant Funding	Other Funds
Personnel				
Salaries and wages ¹	\$ 167,260			
Benefits ²	\$ -			
<i>Total Personnel</i>	\$ 167,260	\$ -	\$ -	\$ -
Consultants³				
Subcontractor A		\$ 110,000		\$ 125,000
Subcontractor B		\$ 25,000		
Subcontractor C	\$ 240,000			
Total Consultants	\$ (240,000)	\$ (135,000)	\$ -	\$ (125,000)
Operating Expenses				
Postage/Shipping				
Supplies/Materials ⁴				
Travel ⁵				
Indirect Costs ⁶				
Total Operating Expenses	\$ -	\$ -	\$ -	\$ -
Total Budget	\$ (72,740)	\$ (135,000)	\$ -	\$ (125,000)

** Hourly rates for City staff time for the project include: Management Analyst at \$136.65, Senior Planner at \$167.83 and Community Development Director at \$291.60. This is an estimate of city staff time encumbered on project and does not include an estimate for benefits or supplies, which the City will assume. All grant monies will be used to hire independent contractors to aid are work.*

RESOLUTION NO. 16-05-17-01

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF DANA POINT,
CALIFORNIA, AUTHORIZING THE CITY OF DANA POINT TO SUBMIT A LCP
PLANNING GRANT APPLICATION TO THE CALIFORNIA COASTAL COMMISSION.**

THE CITY COUNCIL OF THE CITY OF DANA POINT, CALIFORNIA, DOES HEREBY
RESOLVE AS FOLLOWS:

WHEREAS, the Budget Act of 2015 provides \$3 million for Coastal Commission grants in FY 15-16 to local governments to support Local Coastal Program (LCP) planning; and

WHEREAS, the California Coastal Commission, under the authority of the California Coastal Act, may provide financial assistance to support coastal planning and has approved a competitive grant program to provide such financial assistance for LCP planning; and

WHEREAS, the goal of the grant program is to develop new or updated LCPs in conformance with the California Coastal Act and to reflect current circumstances and new scientific information, including new understandings and concern for the effects of climate change; and

WHEREAS, grant proposals submitted under this grant program must complete land use plan and/or zoning work to either achieve submittal for certification of a Local Coastal Program (LCP) or an Area of Deferred Certification (ADC) or of a LCP Amendment to significantly update a certified LCP or LCP segments, including with special emphasis on effects of climate change and sea-level rise; and

WHEREAS, the City of Dana Point, desires to pursue a comprehensive General Plan Update which would result in submittal of a Local Coastal Plan Amendment for certification by the California Coastal Commission; and

WHEREAS, the City of Dana Point commits to and agrees to fully support a planning effort intended to update a certified LCP pursuant to the provisions of the California Coastal Act, with public participation and coordination with the Coastal Commission staff.

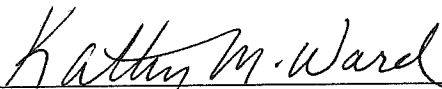
NOW, THEREFORE, BE IT RESOLVED that the City of Dana Point, hereby authorizes the City Manager as the official representative of the City of Dana Point to apply for funding to the California Coastal Commission to provide financial and planning assistance to support efforts for a LCP Amendment, under authority of the California Coastal Act and authorizes the City Manager to execute all necessary applications, contracts and agreements and amendments thereto to implement and carry out the grant application package attached hereto and any project approved through approval of the grant application.

PASSED, APPROVED, AND ADOPTED this 17th day of May 2016.



JOHN A. TOMLINSON, MAYOR

ATTEST:



KATHY M. WARD, CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF ORANGE) ss
CITY OF DANA POINT)

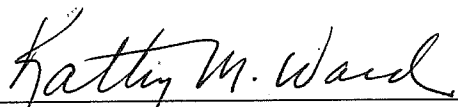
I, Kathy M. Ward, City Clerk of the City of Dana Point, California, DO HEREBY CERTIFY that the foregoing is a true and correct copy of Resolution No. 16-05-17-01 adopted by the City Council of the City of Dana Point, California, at a regular meeting thereof held on the 17th day of May, 2016, by the following vote:

AYES: Council Members Muller, Olvera, Schoeffel, Mayor Pro Tem Viczorek, and Mayor Tomlinson

NOES: None

ABSENT: None

(SEAL)



KATHY M. WARD, CITY CLERK