



DATE: April 6, 2011

TO: Honorable Mayor and City Councilmembers

FROM: Development Services Department

SUBJECT: **APPROVAL OF A PROFESSIONAL SERVICES AGREEMENT TO UPDATE THE MASTER PLAN OF DRAINAGE**

SYNOPSIS

Staff recommends that the City Council approve a professional services agreement with Tory R. Walker Engineering, Inc., of Vista, in the amount of \$509,790 for an update to the Master Plan of Drainage, and authorize the City Manager to execute the agreement; and adopt budget appropriations in amounts totaling \$250,000 from the Unassigned Fund Balances of Drainage Funds 510, 512, 514, 522, 530, 531, and 550 to complete the funding for the update to the Master Plan of Drainage.

BACKGROUND

Identified within this year's Council-approved Capital Improvement Program (CIP) budget (FY 2010-11), is a project to update the City's Master Plan of Drainage (MPD). In general, the purpose of a MPD is to provide long-term solutions for existing flood-hazard locations and provide planning-level design (including cost estimates) for potential drainage facilities which are intended to support future land development. The MPD document also provides significant contribution to three of the City's seven mandatory General Plan elements: land use, conservation, and safety.

State law requires that the City of Oceanside employ a General Plan containing seven mandatory components or "elements" (California Government Code Sections 65300 et seq.). The following definitions are intended to provide a brief explanation of the interaction of the MPD within the subject elements.

- The **land use element** designates the general location and intensity of housing, business, industry, open space, education, public buildings and grounds, waste disposal facilities, and other land uses. The MPD document assists with long-range policy direction regarding community values on public safety and public facilities, site design for undeveloped and redeveloped land, supplemental information for special management areas, clarification on stormwater-related development standards, and addressing certain natural resource management topics associated with erosion and siltation control and floodplains.

- The **conservation element** addresses the conservation, development, and use of natural resources including water, forests, soils, rivers, and mineral deposits. The MPD will provide assistance regarding understanding, interaction, and enforcement of applicable requirements from the San Diego Regional Water Quality Control Board (SDRWQCB) and the National Pollutant Discharge Elimination System (NPDES) permit program.
- The **safety element** establishes policies and programs to protect the community from risks associated with seismic, geologic, flood, and wildfire hazards. Flood hazards are identified as a primary topic within the City of Oceanside Public Safety Element.

The General Plan specifically identifies the MPD as a document which directly relates to the goals and policies of the safety element. As such, a periodic update to the MPD is required per City of Oceanside Ordinance 85-23. The City's current MPD was originally adopted in 1980. Since that time, a number of relatively minor amendments have been applied. The last amendment in 2006 focused primarily on hydrology and hydraulic analysis. The maximum time allotted between MPD updates is a five-year period; therefore, a new update is due. The proposed update is intended to be comprehensive and is a much larger undertaking than previous efforts. Supplemental information will be incorporated into the MPD as a result of this update, which in turn should assist with better administration of the City's stormwater management policies and regulations.

A key function of each MPD amendment is to enable both City staff and the development community to clearly understand the City's long-term objectives and direction toward drainage infrastructure. Hence, a comprehensive evaluation of the City's current stormwater drainage conveyance system, plus an assessment of the interaction and impacts of recently adopted stormwater regulations will be an important focus of this update. The revised MPD will include future drainage facility information, including capacity, size, and cost of improvements. The term drainage facility includes stormwater transport improvements such as: channels, storm drains, levees, basins, dams, wetlands, and all other conveyance systems which are capable of economically relieving flooding problems within the City.

The intent of this project is to amend the MPD to:

1. Comply with state laws and current hydrological design criteria
2. Assess, outline, and accurately depict existing storm drain infrastructure
3. Incorporate current retention basin design information
4. Incorporate current land-use designation
5. Assess future drainage facility needs
6. Create GIS drainage maps
7. Support safety of the public through the identification of long-term solutions for flood hazard matters
8. Provide a stormwater infrastructure guide for orderly land development
9. Provide planning-level cost estimates for needed facilities

10. Calculate and amend equitable drainage impact fees, based on facility cost, so taxpayers do not bear the burden of private land development
11. Identify potential capital improvement project expenditures for future budget years
12. Prioritize the most effective and efficient use of drainage program funds.

ANALYSIS

On November 4, 2010, the City advertised a request for proposals to solicit consultant submittals for the preparation of a revision to the Master Plan of Drainage (Exhibit A).

On November 23, 2010, the City held a pre-proposal meeting with representatives from 14 consulting firms attending (Exhibit B). On December 3, 2010, three consultants submitted proposals. Engineering staff reviewed the proposals, evaluated qualifications, and selected a firm based upon proposal rating process results (Exhibit C). Staff recommends Tory R. Walker Engineering, Inc., as the RFP firm best suited to update the Master Plan of Drainage. The update shall include Tasks 10, 12, and 14.

FISCAL IMPACT

Funding for this project is solely through drainage impact fees paid by developers. Ordinance 85-23 indicates drainage impact fees can only be used for administration of the master plan program, construction of facilities, and the reimbursement of the cost of construction of authorized MPD facilities.

Funding in the amount of \$350,000 is already in place for the Update of the Master Plan of Drainage as shown in the following list. The contract of \$509,790 plus contingencies, administrative overhead, and staff time will bring the total cost of the project to \$600,000. Staff requests \$250,000 in budget appropriations from the Unassigned Fund Balances (xxx.3100.0001) of Drainage Funds 510, 512, 514, 522, 530, 531, and 550 to the existing CIP projects as noted in the chart below. These appropriations will bring the total project financing to \$600,000. Therefore, sufficient funds are available.

Master Plan of Drainage Capital Accounts	Existing Available Funding	Budget Appropriations Requested	Total Available Amount
905116700510	\$25,000	\$25,000	\$50,000
905543700512	\$50,000	\$50,000	\$100,000
905112900513	\$25,000		\$25,000
905543100514	\$40,000	\$50,000	\$90,000
905117100515	\$35,000		\$35,000
905117200522	\$35,000	\$40,000	\$75,000
905117400530	\$35,000	\$30,000	\$65,000
905117500531	\$45,000	\$45,000	\$90,000
905117700540	\$25,000		\$25,000
905117800550	\$35,000	\$10,000	\$45,000
Totals	\$350,000	\$250,000	\$600,000

INSURANCE REQUIREMENTS

The City's standard insurance requirements will be met.

COMMISSION OR COMMITTEE REPORT

Does not apply.

CITY ATTORNEY'S ANALYSIS

The referenced documents have been reviewed by the City Attorney and approved to form.

RECOMMENDATION

Staff recommends that the City Council approve a professional services agreement with Tory R. Walker Engineering, Inc., of Vista, in the amount of \$509,790 for an update to the Master Plan of Drainage, and authorize the City Manager to execute the agreement; and adopt budget appropriations in amounts totaling \$250,000 from the Unassigned Fund Balances of Drainage Funds 510, 512, 514, 522, 530, 531, and 550 to complete the funding for the update to the Master Plan of Drainage.

PREPARED BY:


 Scott O. Smith
 City Engineer

SUBMITTED BY:


 Peter A. Weiss
 City Manager

REVIEWED BY:

Michelle Skaggs Lawrence, Deputy City Manager
 George Buell, Development Services Director
 Teri Ferro, Financial Services Director



Attachments: Exhibits A, B, and C

CITY OF OCEANSIDE

PROFESSIONAL SERVICES AGREEMENT

PROJECT: City of Oceanside Master Plan of Drainage (MPD)

THIS AGREEMENT, dated _____, 2011, for identification purposes, is made and entered into by and between the CITY OF OCEANSIDE, a municipal corporation, hereinafter designated as "CITY", and Tory Walker Engineering, Inc., hereinafter designated as "CONSULTANT."

NOW THEREFORE, THE PARTIES MUTUALLY AGREE AS FOLLOWS:

1. **SCOPE OF WORK.** Amendment of the City of Oceanside Master Plan of Drainage (MPD) to reflect revisions, additions and other changes in facilities. A more detailed Scope of Service for the project, as defined by the CONSULTANT (dated December 3, 2010), is attached hereto as **Exhibit "A"** which includes Tasks 1 through 10, Task 12 and 14. Tasks 11 and 13 are NOT included in the scope of services.
2. **INDEPENDENT CONTRACTOR.** CONSULTANT'S relationship to the CITY shall be that of an independent contractor. CONSULTANT shall have no authority, express or implied, to act on behalf of the CITY as an agent, or to bind the CITY to any obligation whatsoever, unless specifically authorized in writing by the City Engineer. The CONSULTANT shall not be authorized to communicate directly with, nor in any way direct the actions of, any bidder or the construction contractor for this project without the prior written authorization by the City Engineer. CONSULTANT shall be solely responsible for the performance of any of its employees, agents, or subcontractors under this Agreement. CONSULTANT shall report to the CITY any and all employees, agents, and consultants performing work in connection with this project, and all shall be subject to the approval of the CITY.
3. **WORKERS' COMPENSATION.** Pursuant to Labor Code section 1861, the CONSULTANT hereby certifies that the CONSULTANT is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and the CONSULTANT will comply with such provisions, and provide certification of such compliance as a part of this Agreement.
4. **LIABILITY INSURANCE.**

City of Oceanside Master Plan of Drainage (MPD)

- 4.1. CONSULTANT shall, throughout the duration of this Agreement maintain comprehensive general liability and property damage insurance, or commercial general liability insurance, covering all operations of CONSULTANT, its agents and employees, performed in connection with this Agreement including but not limited to premises and automobile.
- 4.2. CONSULTANT shall maintain liability insurance in the following minimum limits:

<u>Comprehensive General Liability Insurance</u> (bodily injury and property damage)	
Combined Single Limit Per Occurrence	\$ 1,000,000
General Aggregate	\$ 2,000,000*
<u>Commercial General Liability Insurance</u> (bodily injury and property damage)	
General limit per occurrence	\$ 1,000,000
General limit project specific aggregate	\$ 2,000,000
<u>Automobile Liability Insurance</u>	\$ 1,000,000

*General aggregate per year, or part thereof, with respect to losses or other acts or omissions of CONSULTANT under this Agreement.

- 4.3. If coverage is provided through a Commercial General Liability Insurance policy, a minimum of 50% of each of the aggregate limits shall remain available at all times. If over 50% of any aggregate limit has been paid or reserved, the CITY may require additional coverage to be purchased by the CONSULTANT to restore the required limits. The CONSULTANT shall also notify the CITY'S Project Manager promptly of all losses or claims over \$25,000 resulting from work performed under this contract, or any loss or claim against the CONSULTANT resulting from any of the CONSULTANT'S work.
- 4.4. All insurance companies affording coverage to the CONSULTANT for the purposes of this Section shall add the City of Oceanside as "additional insured" under the designated insurance policy for all work performed under this agreement. Insurance coverage provided to the City as additional insured shall be primary insurance and other insurance maintained by the City of Oceanside, its officers, agents, and employees shall be excess only and not contributing with insurance provided pursuant to this Section.
- 4.5. All insurance companies affording coverage to the CONSULTANT pursuant to this agreement shall be insurance organizations admitted by the Insurance Commissioner of the State of California to transact business of insurance in the state or be rated as A-X or higher by A.M. Best.

City of Oceanside Master Plan of Drainage (MPD)

- 4.6 All insurance companies affording coverage shall provide thirty (30) days written notice to the CITY should the policy be cancelled before the expiration date. For the purposes of this notice requirement, any material change in the policy prior to the expiration shall be considered a cancellation.
- 4.7 CONSULTANT shall provide evidence of compliance with the insurance requirements listed above by providing a Certificate of Insurance and applicable endorsements, in a form satisfactory to the City Attorney, concurrently with the submittal of this Agreement.
- 4.8 CONSULTANT shall provide a substitute Certificate of Insurance no later than thirty (30) days prior to the policy expiration date. Failure by the CONSULTANT to provide such a substitution and extend the policy expiration date shall be considered a default by CONSULTANT and may subject the CONSULTANT to a suspension or termination of work under the Agreement.
- 4.9 Maintenance of insurance by the CONSULTANT as specified in this Agreement shall in no way be interpreted as relieving the CONSULTANT of any responsibility whatsoever and the CONSULTANT may carry, at its own expense, such additional insurance as it deems necessary.
5. **PROFESSIONAL ERRORS AND OMISSIONS INSURANCE.** Throughout the duration of this Agreement and four (4) years thereafter, the CONSULTANT shall maintain professional errors and omissions insurance for work performed in connection with this Agreement in the minimum amount of One Million Dollars (\$1,000,000.00).

CONSULTANT shall provide evidence of compliance with these insurance requirements by providing a Certificate of Insurance.

6. **CONSULTANT'S INDEMNIFICATION OF CITY.** To the greatest extent allowed by law, CONSULTANT shall indemnify and hold harmless the CITY and its officers, agents and employees against all claims for damages to persons or property arising out of CONSULTANT'S work, including the negligent acts, errors or omissions or wrongful acts or conduct of the CONSULTANT, or its employees, agents, subcontractors, or others in connection with the execution of the work covered by this Agreement, except for those claims arising from the willful misconduct, sole negligence or active negligence of the CITY, its officers, agents, or employees. CONSULTANT'S indemnification shall include any and all costs, expenses, attorneys' fees, expert fees and liability assessed against or incurred by the CITY, its officers, agents, or employees in defending against such claims or lawsuits, whether the same proceed to judgment or not. Further, CONSULTANT at its own expense shall, upon written request by the CITY, defend any such suit or action brought against the CITY, its officers, agents, or employees founded upon,

City of Oceanside Master Plan of Drainage (MPD)

resulting or arising from the conduct, tortious acts or omissions of the CONSULTANT.

CONSULTANT'S indemnification of CITY shall not be limited by any prior or subsequent declaration by the CONSULTANT.

7. **OWNERSHIP OF DOCUMENTS.** All plans and specifications, including details, computations and other documents, prepared or provided by the CONSULTANT under this Agreement shall be the property of the CITY. The CITY agrees to hold the CONSULTANT free and harmless from any claim arising from any use, other than the purpose intended, of the plans and specifications and all preliminary sketches, schematics, preliminary plans, architectural perspective renderings, working drawings, including details, computation and other documents, prepared or provided by the CONSULTANT. CONSULTANT may retain a copy of all material produced under this Agreement for the purpose of documenting their participation in this project.
8. **COMPENSATION.** CONSULTANT'S compensation for all work performed in accordance with this Agreement, shall not exceed the total contract price of \$509,790.00. A more detailed fee schedule, as defined by the CONSULTANT, is attached hereto in **Exhibit "B"**.

No work shall be performed by CONSULTANT in excess of the total contract price without prior written approval of the City Engineer. CONSULTANT shall obtain approval by the City Engineer prior to performing any work that results in incidental expenses to CITY.
9. **TIMING REQUIREMENTS.** Timing requirements shall be per **Exhibit "C"**. Anticipated Timeline which shall be updated by the CONSULTANT on a regular basis and as required by the City Engineer.
10. **ENTIRE AGREEMENT.** This Agreement comprises the entire integrated understanding between CITY and CONSULTANT concerning the work to be performed for this project and supersedes all prior negotiations, representations, or agreements.
11. **INTERPRETATION OF THE AGREEMENT.** The interpretation, validity and enforcement of the Agreement shall be governed by and construed under the laws of the State of California. The Agreement does not limit any other rights or remedies available to CITY.

The CONSULTANT shall be responsible for complying with all local, state, and federal laws whether or not said laws are expressly stated or referred to herein.

Should any provision herein be found or deemed to be invalid, the Agreement shall

City of Oceanside Master Plan of Drainage (MPD)

be construed as not containing such provision, and all other provisions, which are otherwise lawful, shall remain in full force and effect, and to this end the provisions of this Agreement are severable.

- 12. **AGREEMENT MODIFICATION.** This Agreement may not be modified orally or in any manner other than by an agreement in writing signed by the parties hereto.
- 13. **SIGNATURES.** The individuals executing this Agreement represent and warrant that they have the right, power, legal capacity and authority to enter into and to execute this Agreement on behalf of the respective legal entities of the CONSULTANT and the CITY.

IN WITNESS WHEREOF, the parties hereto for themselves, their heirs, executors, administrators, successors, and assigns do hereby agree to the full performance of the covenants herein contained and have caused this Professional Services Agreement to be executed by setting hereunto their signatures on the dates set forth below.

Tory Walker Engineering, Inc.
973 Vale Terrace Drive, Suite 202
Vista, CA 92084

CITY OF OCEANSIDE

By: 
Name/Title TORY R. WALKER, PRES.

By: _____
City Manager

Date: _____

Date: _____

By: 
Name/Title JENNIFER L. WALKER, SEC.

APPROVED AS TO FORM:

Date: _____

, ASST.
City Attorney

33-0892309

Employer ID No.

NOTARY ACKNOWLEDGMENTS OF CONSULTANT MUST BE ATTACHED.

EXHIBIT A

Scope of Services

As described in the Request for Proposals, the scope of services is summarized as follows:

- Task 1: Obtain and Compile Hydrologic Information
- Task 2: Update Inventory and Database with New Information
- Task 3: Research Methodologies and Software Tools
- Task 4: Review and Evaluate Existing and Proposed Detention Basins
- Task 5: Hydrologic Analysis
- Task 6: Revise Recommended Storm Drain Upgrades and Improvements
- Task 7: Revise Construction Cost Estimates
- Task 8: Capital Improvement Projects (CIP)
- Task 9: Drainage Impact Fee Evaluation
- Task 10: Meetings, Coordination and Delivered Product

Additional drainage tasks (optional at City discretion)

- Task 11: San Luis Rey River - Flood Risk at Major Arterials
- Task 12: Loma Alta Creek Watershed Studies
- Task 13: Buena Vista Creek Watershed Studies
- Task 14: Update City Drainage System Design Criteria

TRWE has spent time considering each task of the proposed scope of services. We have described below in more detail than described in the RFP our tentative approach, which will be further refined in meeting with and communicating with City Engineering Division staff. Our understanding of the tasks and approach to these tasks is as follows:

Task 1: Obtain and Compile Hydrologic Information

TRWE will meet with City Engineering Division staff, Public Works maintenance staff, and Clean Water Program staff to determine what information is available from the City. This will include, at a minimum, previous master plans of drainage (2005 MPD by Bureau Veritas and 1980 MPD by VTN), other hydrologic studies (associated with CIP projects, private developments, and other public agency studies available at the City), storm drain and BMP inventory and design information, detention basin design information, flood insurance studies, and watershed studies.

TRWE will also meet with (and/or coordinate with) other local, state, and federal agencies and any other pertinent sources to obtain pertinent information. Probable sources for additional information, similar to that obtained from the City of Oceanside, include the cities of Vista and Carlsbad, the County of San Diego, California Department of Transportation, the US Army Corps of Engineers, and Camp Pendleton. Pertinent information may also be available from both State and Federal agencies, such as California Department of Water Resources, Department of Conservation (e.g., the California Watershed Portal), State Water Resources Control Board (e.g., watershed studies and/or information), National Weather Service (e.g., precipitation data and/or statistical analysis), and the U. S. Geological Survey (e.g., stream gage data and analysis, geologic mapping). Additionally, pertinent information, including photographs, may also be available from some non-governmental organizations (NGOs), such as Preserve Calavera, the Center for Natural Lands Management, Friends of Loma Alta Creek, Buena Vista Audubon, and The Buena Vista Lagoon Foundation.

Task 2: Update Inventory and Database with New Information

TRWE provided review services to the City of Oceanside for the 2005 MPD prepared by Bureau Veritas. In the process of that detailed review, and because of our involvement with other drainage projects in the City, we became very familiar with many drainage systems and somewhat familiar with all the drainage systems. We will therefore only need to conduct an overview of the 2005 MPD for this task and then meet with the City to discuss the existence of newer or more accurate information that was not previously incorporated into the 2005 MPD.

We will meet with the City's Water Utilities Department to establish the base condition of the City's GIS database and mapping, as well as protocols and procedures for our team to coordinate closely with the City's GIS team. We will then incorporate the MPD and new information into the City's existing GIS database and update or revise data as necessary. Additionally, pertinent information from other sources obtained in Task 1 may be incorporated, but such information would possibly also need to be verified or noted as not yet verified. Field verification is not assumed within any of the tasks, except as specifically noted, so it will be important to make a distinction between sources of data and if the data needs to or has been verified.

Task 3: Research Methodologies and Software Tools

TRWE will research currently available methodologies and software tools for use in preparation of the amended MPD. We will evaluate the methodologies and tools and make recommendations to the City. We will submit proposed criteria for evaluation to the City and discuss the criteria with the City prior to the research. We anticipate this will result in the establishment of a system of weighting criteria that will be organized in a decision matrix. GIS compatibility and conversion of data, hydrologic and hydraulic methodologies and calculations, and updated mapping will be considered as part of the criteria. Recent use of methodologies and software for master planning purposes will also be considered. Additional criteria will be developed with this task, but will at least include considerations specific to the City of Oceanside's existing and future technological systems and capabilities and the ease of use for ongoing updates to the Master Plan.

We anticipate researching and evaluating the following software tools: XPSWMM, XPStorm, MIKE Urban, InfoSWMM and InfoWorks SD, Autodesk SSA, Hydra, and Bentley CivilStorm. We also anticipate using ESRI ArcView with ArcHydro Extension for input data generation. All of the methodologies and software tools will be compared using the weighted criteria decision matrix established by our meeting with the City. TRWE will then prepare a brief report summarizing the decision process and making recommendations. Methodologies and software will ultimately be selected by the City based upon their review of these recommendations.

Task 4: Review and Evaluate Existing and Proposed Detention Basins

The 2005 MPD did not consider the attenuation of flows in storm drain systems due to detention basins, and thus calculated peak discharges in systems downstream of these basins were likely all overestimated. TRWE will review any existing available data and as-built information related to existing detention basins within or upstream of the City. This information will be used to estimate attenuated peak flows upstream of MPD facilities. It is anticipated that 10 to 15 existing basins and up to 5 proposed basins will have to be

analyzed under this project to determine attenuated peak flows. We will use the results of the analyses to make recommendations, as appropriate, regarding possible modifications to basins. Optimization of the City's drainage infrastructure is the primary goal of this task; however, these basins will be analyzed for four discrete storm events, as defined in Task 5. The selection and number of basins to be analyzed shall be at the discretion of the City, and the result of the analysis shall be made part of the amended Master Plan. We have assumed one week of field survey to supplement and/or verify detention basin data, but a better estimate will be prepared once the basins have been identified.

To implement this task, we will meet with the cities of Oceanside and Vista to obtain as-built plans or design drawings and reports, where available. We will review the drawings and reports and follow up with site visits to each detention basin for the purpose of verifying and assessing existing conditions at the basins. The field survey will follow, with more specific information gathered, including outlet works, spillway information and dam crest information. Stage-storage relationships for the basins will be based on the City's 2-foot contour topographic mapping and supplemented as needed by the field survey. We will then use the above information to analyze the detention basins for attenuation of peak flows associated with the 100-year, 25-year, 10-year and 2-year storm events. Finally as already noted, we will make recommendations regarding possible modifications to existing detention basins and regarding proposed basins. After meeting with the City of Oceanside to discuss these recommendations, we will prepare a report incorporating analyses and final recommendations.

Detention basins that are part of the San Luis Rey River Basin Flood Control Project are excluded from this review, as they will not have any bearing on the MPD. Similarly, detention basins in Carlsbad will not be considered, as the only ones that might have relevance would be part of optional Task 13 and would thus be part of that task.

Task 5: Hydrologic Analysis

TRWE will prepare hydrologic models using the methodologies and software selected in Task 3. The geographic extents of this modeling will be approximately the same as previously prepared by Bureau Veritas in the 2005 MPD. We will extract relevant information from the Rational Method calculations prepared for the 2005 MPD. Pertinent information obtained from Tasks 1, 2 and 4 will also be incorporated into the new hydrologic model, generating results for the 100-year, 25-year, 10-year and 2-year storm events. TRWE will also produce an updated map (Appendix A, Figure 4 – 2005 MPD) including an acceptable method of geo-referencing each mapped Master Plan Facility to the appropriate hydrologic calculations.

This task will require the preparation and compilation of GIS layers, including (if available and applicable) soils, precipitation (2, 10, 25, 100-year), land use/cover, City of Oceanside storm sewer database inventory, City of Vista storm sewer, land use/cover database, Pendleton storm sewer, land use/cover database, and topography (Digital Terrain Model).

Once the preparatory work is completed, which will include the preparation and compilation of GIS layers, the extraction of information from the 2005 MPD, and the incorporation of new information into the new model, we will test and troubleshoot the model(s), verifying results for approximately 10 drainage systems, with input from City Engineering and/or maintenance staff. We will then run the model(s) for 2, 10, 25 and 100-year storms. Results for each of these storms will be useful in identifying the extent of deficiencies in different drainage systems and will thus be helpful in tasks 6 through 9.

Task 6: Revise Recommended Storm Drain Upgrades and Improvements

From the results of Tasks 4 and 5 and meetings with Public Works maintenance staff, TRWE will revise and update the 2005 MPD tables summarizing facility upgrades and improvements. Criteria previously used will likely be assumed for determining adequacy of existing facilities and for sizing new facilities. One notable addition to this will be the consideration of multiple-year (100, 25 and 10-year) frequencies.

We will meet with City Engineering staff to discuss results of Task 5 and to select storm frequencies for determining adequacy of existing and new storm drain systems for differing sizes and conditions. We will differentiate between existing and new facilities for various sizes and conditions. We will then incorporate the updated tables summarizing facility upgrades and improvements in the GIS database.

Task 7: Revise Construction Cost Estimates

From the results of Task 6, TRWE will revise and update the 2005 MPD tables summarizing construction cost estimates. Cost estimates will be based upon varying sizing criteria for different sizes and conditions (e.g., sump vs. flow by inlets). In addition to using revised facility sizes, a more current unit price list will be used.

Prior to updating the estimates, we will meet with City staff to discuss the source and desired format of the construction cost estimates. We will then incorporate the updated construction cost estimates tables in the GIS database.

Task 8: Capital Improvement Projects (CIP)

TRWE will assist the City in identifying Capital Improvement Projects under the City's Drainage Program. We will use the completed analyses from previous tasks and the input from Public Works maintenance staff to assist City Engineering staff in preparing documentation for these projects. The following criteria shall generally be used to identify and estimate CIP's:

- a) Undersized Master Plan facility sizes (36-inch diameter and greater)
- b) Identified chronic flood-prone areas
- c) Identifying undersized CIP facilities from 18-inches up to MPD sizes
- d) Identifying the need for additional inlets (CBs) and other drainage structures

It is anticipated that considerable engineering judgment, including close coordination with City staff, will be required to develop proposed Capital Improvement Projects. We plan to meet with City Engineering staff to identify probable CIP projects and criteria for selection of projects for CIP. We will prepare schematic plan drawings, using the City's 2-foot contour interval topographic mapping as a base, and cross reference the location of each CIP project on the updated map (Appendix A, Figure 4 – 2005 MPD). We will prepare separate cost estimates for each proposed CIP project using information from previous tasks. Finally, we will prepare a brief description for each CIP project and compile all information into packages. We assume up to 100 locations/projects will be identified.

Task 9: Drainage Impact Fee Evaluation

TRWE will assist the City in evaluating the City's existing Drainage Impact Fee structure based upon the results of Tasks 6, 7, and 8 and make recommendations regarding possible alternative fee structures. To accomplish this task, we will first meet with City Engineering staff to discuss pros and cons of various drainage impact fee structures based on results of

previous tasks. We will then research and evaluate various drainage impact fee structures and prepare a draft report of recommendations regarding drainage impact fee structures. We will meet with City Engineering staff once more to discuss the draft report and then revise the report of recommendations based on review comments and our meeting with the City.

Task 10: Meetings, Coordination and Delivered Product

Ongoing coordination and a number of meetings with the City Engineering staff and operations personnel are expected with the above tasks to identify chronic flood-prone areas and to obtain information. We estimate a total of 174 hours for all meetings; approximately 28 hours of that total would be with neighboring municipalities, and the remaining 146 hours would be with various City of Oceanside personnel. We estimate the total number of meetings with the City to be 32, and we estimate 9 meetings with other municipalities. Coordination for this project, including project management, is estimated to be 214 hours.

Upon completion of the above tasks, TRWE will compile the various reports into a final report and deliver to the City a minimum of 4 hard copies and a digital version of the final report, any project specific software used in the process, and a list of commercially available software required by the City to manage and maintain the amended master plan.

ADDITIONAL DRAINAGE TASKS (OPTIONAL AT CITY DISCRETION)

Task 11: San Luis Rey River - Flood Risk at Major Arterials

While the construction of levees along the San Luis Rey River has reduced some risk of flooding within the City, there still remains some risk. Part of this risk is associated with the lack of an approved Vegetation Management Plan within the river channel. If the levee is overtopped, there is the potential for major arterials, essential for passage of emergency vehicles, to be impassable.

TRWE will determine which roads classified at least as "major arterial" are subject to flooding based on water surface elevations from the FIRMs published prior to the construction of the levees. We will then evaluate the degree of flooding risk on these roads and make recommendations for each road regarding emergency vehicle travel.

For this task, we will review old (without levee) FIS information of the San Luis Rey River through the City, obtain and review the Corps' latest HEC-RAS model of the river through the City, and plot the water surface on top of City 2-foot contour interval topographic mapping. We will coordinate with the City to identify the major arterials of concern, and then review depths of flooding along those arterials with the City. We will also obtain and review road improvement plans for the affected portions of major arterials and conduct a site visit of those affected portions.

TRWE will then determine locations of greatest risk for overtopping of the levee based on the Corps' latest HEC-RAS model and the "No Vegetation Management Plan" scenario. Those locations of greatest risk for overtopping of the levee will be used to further evaluate the degree of flood risk at the affected arterials. We will use approximate (stochastic or probabilistic) means to estimate risk based on relative locations and topography. We will then make recommendations for each road regarding emergency vehicle travel and compile results into a report.

Task 12: Loma Alta Creek Watershed Studies

Based on a recent floodplain analysis of Loma Alta Creek (associated with a LOMR application package), some properties adjacent to the creek are at risk of flood damage in a 100-year storm event. TRWE will restudy the hydrology of the watershed, incorporating any pertinent results of previous tasks. One goal of this study will be to optimize the drainage system to reduce the risk of downstream flood damage from Rancho Del Oro Drive to the Pacific Ocean. This task will include the evaluation of possible new detention and modification of existing and/or planned detention basins. We will also evaluate solutions for reducing the risk of flood damage to properties along Industry Street, at the Cavalier Mobile Estates, and at the Oceanside RV Park.

TRWE is already quite familiar with the LOMR package and HEC-RAS model of Loma Alta Creek, having reviewed and commented on it for the City. We have also obtained a copy of the HEC-1 hydrology study of Loma Alta Creek and will review it in detail so as to determine where system optimization might be possible. We will import the HEC-1 model to HEC-HMS and troubleshoot the model, if necessary. We will then incorporate any pertinent results of previous tasks into the working HEC-HMS model, evaluating land use, vegetative cover, soils, lag, precipitation, and the infiltration/runoff relationship.

We will visit detention basins and possible detention basin locations in the watershed with a view of evaluating modifications of existing basins as appropriate. We will then evaluate the effects of possible new detention and existing detention basin modifications with a sensitivity analysis of the revised HEC-HMS model. The purpose of this analysis is to evaluate where detention is optimized within the watershed such that peak flow reductions are achieved.

With the optimization portion done, we will then evaluate solutions for reducing the risk of flood damage to properties along Industry Street, at the Cavalier Mobile Estates, and at the Oceanside RV Park. We will make recommendations to the City regarding possible solutions and associated constraints, costs and opportunities and then prepare a draft report. Solutions may be influenced by the outcome of the optimization study, which could result in peak reduction as at least part of a solution. Floodplain management, including channel and/or overbank/floodway fringe modifications will also likely be evaluated. We will meet with the City to initiate the study, discuss possible solutions, evaluate progress & direction, and to review the draft report. We will then revise the draft report for a final report.

Task 13: Buena Vista Creek Watershed Studies

TRWE will study the hydrology of the watershed, incorporating any pertinent results of previous tasks. Pertinent information will include, but not be limited to, our recent HEC-HMS study of the Buena Vista Creek Watershed upstream of South Melrose Drive within the City of Vista. That detailed hydrology study, which we completed for the City of Vista and incorporates possible detention basins, will be extended downstream to the Pacific Ocean. The goal of this study will be to optimize the drainage system to reduce the risk of flood damage within the City of Oceanside. This task will include the evaluation of possible new detention and modification of existing and/or planned detention basins. We will also evaluate solutions for reducing the risk of flood damage to properties upstream of Thunder Drive and at College Boulevard. At College Boulevard, we have already evaluated solutions in association with another contract and would thus be prepared to review that analysis with the City and determine if any further analyses would be beneficial.

In performance of this task, we will obtain and review any hydrology studies of Buena Vista

Creek from the cities of Oceanside and Carlsbad. As noted above, we have already completed detailed studies of Buena Vista Creek within Vista. We will extend the most recent hydrology study from Highway 78, where the current study ends, downstream to the ocean, evaluating what from the existing hydrology studies will be incorporated into the new comprehensive hydrology study.

We will incorporate any pertinent results of previous tasks into the working HEC-HMS hydrologic model, evaluating land use, vegetative cover, soils, lag, precipitation, and the infiltration/runoff relationship. We will visit Thunder Drive, College Boulevard, and possible new detention basins and existing detention basins with a view of evaluating modifications of existing basins as appropriate. We will then evaluate the effects of possible new detention and existing detention basin modifications with a sensitivity analysis of the revised HEC-HMS model. The purpose of this analysis is to evaluate where detention is optimized within the watershed such that peak flow reductions are achieved.

With the optimization portion done, we will then evaluate solutions for reducing the risk of flood damage to properties at Thunder Drive. We will evaluate channel modifications, both upstream and downstream, and evaluate road/culvert modifications. We are also prepared to further evaluate ways to reduce flooding risk at College Boulevard, if needed. As mentioned, we have completed an evaluation, which we will review with current City staff. Upon completion of this task, we will prepare a draft report. We will meet with the City to initiate the study, evaluate progress & direction, and to review the draft report. We will then revise the draft report for a final report.

Task 14: Update City Drainage System Design Criteria

TRWE will update Chapter II, Section 6 of the manual, the City's Drainage System Design Criteria. This update will incorporate requirements from the Master Plan of Drainage, current drainage design standards, hydrologic methods and regulatory requirements for storm water. We will meet with City Engineering staff on a regular basis and coordinate a public comment review to obtain input from the professional design community and the general public.

For this task, we will review the City's existing Drainage System Design Criteria, the County of San Diego's Drainage Design Manual, and up to three other similar (recent) drainage design manuals that incorporate storm water quality criteria. We will meet with City Engineering staff regularly, coordinate a public comment review, and write a draft updated Drainage System Design Criteria. We will send the draft to select reviewers (up to 10) for comments, coordinate and review City and select reviewers' comments and revise it as a final draft. We will then review final draft comments and prepare the final Drainage System Design Criteria.

EXHIBIT B

Fee Estimate

We have estimated fees for completion of the project on a task by task basis and have indicated totals below. These estimates are of course preliminary and will likely be refined in initial discussions with City Engineering staff.

Tasks 1 through 10

TASK	ESTIMATED COST
Task 1: Obtain and Compile Hydrologic Information	\$ 16,250
Task 2: Update Inventory and Database with New Information	\$ 29,400
Task 3: Research Methodologies and Software Tools	\$ 14,000
Task 4: Review and Evaluate Existing and Proposed Detention Basins	\$ 61,840
Task 5: Hydrologic Analysis	\$ 72,400
Task 6: Revise Recommended Storm Drain Upgrades and Improvements	\$ 12,000
Task 7: Revise Construction Cost Estimates	\$ 10,000
Task 8: Capital Improvement Projects (CIP)	\$ 105,000
Task 9: Drainage Impact Fee Evaluation	\$ 13,750
Task 10: Meetings and Coordination	\$ 56,900

ESTIMATED TOTAL OF TASKS 1 THROUGH 10 \$ **391,540**

Additional Drainage Tasks 11 through 14

TASK	ESTIMATED COST
Task 11: San Luis Rey River - Flood Risk at Major Arterials	\$ 26,750
Task 12: Loma Alta Creek Watershed Studies	\$ 76,500
Task 13: Buena Vista Creek Watershed Studies	\$ 75,500
Task 14: Update City Drainage System Design Criteria	\$ 41,750

ESTIMATED TOTAL OF TASKS 11 THROUGH 14 \$ **220,500**

Schedule of Hourly Rates

Below is our current schedule of hourly rates. We anticipate using this schedule through 2011.

TRWE's FEE SCHEDULE

(Effective date: 1/31/2010)

Principal	\$185.00/hour
Project Manager	\$150.00/hour
GIS Manager	\$130.00/hour
Senior Engineer	\$125.00/hour
Associate Engineer	\$110.00/hour
Junior Engineer	\$100.00/hour
Engineering Technician	\$80.00/hour
CADD/GIS Technician	\$80.00/hour
Clerical	\$60.00/hour



TORY R. WALKER ENGINEERING, INC.
WATER RESOURCES PLANNING & ENGINEERING

Amendment of the City of Oceanside Master Plan of Drainage Anticipated Timeline

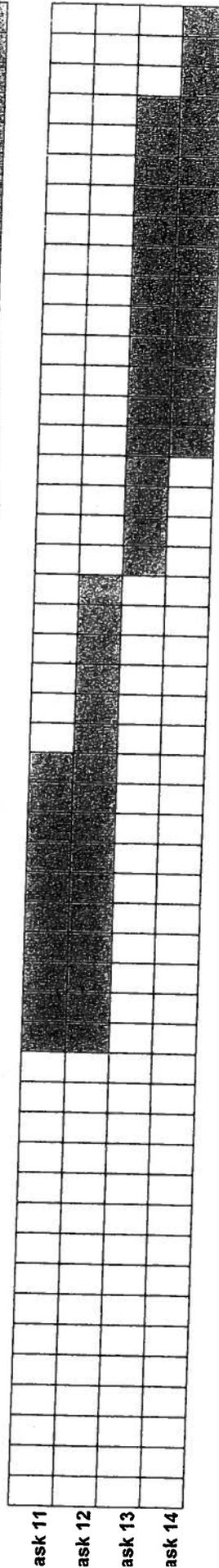
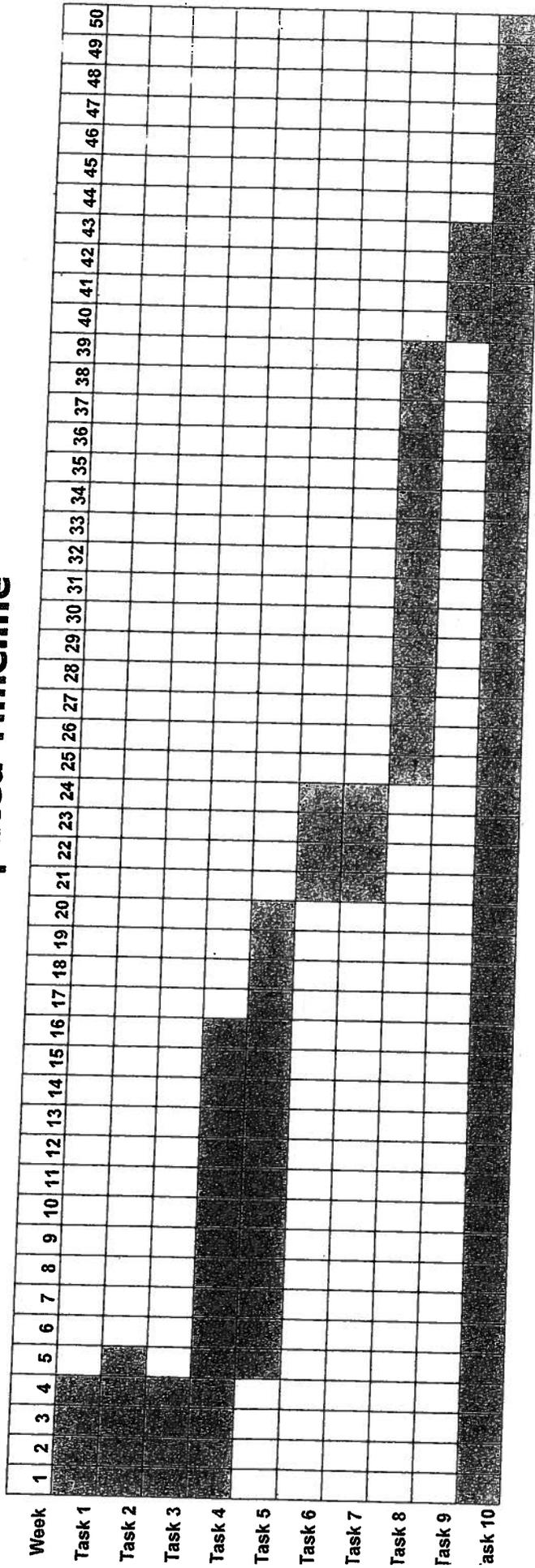


EXHIBIT C

Project Schedule

We have prepared a preliminary anticipated time for completion of the project on a task by task basis. Anticipated time for each task is shown below, and a preliminary project schedule is also included. These are preliminary and will likely be refined in initial discussions with City Engineering staff.

Tasks 1 through 10

TASK	ANTICIPATED TIME
Task 1: Obtain and Compile Hydrologic Information	4 weeks
Task 2: Update Inventory and Database with New Information	6 weeks
Task 3: Research Methodologies and Software Tools	4 weeks
Task 4: Review and Evaluate Existing and Proposed Detention Basins	16 weeks
Task 5: Hydrologic Analysis	16 weeks
Task 6: Revise Recommended Storm Drain Upgrades and Improvements	4 weeks
Task 7: Revise Construction Cost Estimates	4 weeks
Task 8: Capital Improvement Projects (CIP)	15 weeks
Task 9: Drainage Impact Fee Evaluation	4 weeks
Task 10: Meetings and Coordination	ongoing

ESTIMATED TOTAL OF TASKS 1 THROUGH 10

50 weeks

Additional Drainage Tasks 11 through 14

TASK	ANTICIPATED TIME
Task 11: San Luis Rey River - Flood Risk at Major Arterials	10 weeks
Task 12: Loma Alta Creek Watershed Studies	16 weeks
Task 13: Buena Vista Creek Watershed Studies	16 weeks
Task 14: Update City Drainage System Design Criteria	15 weeks

ESTIMATED TOTAL OF TASKS 11 THROUGH 14

35 weeks

Exhibit A



CITY OF OCEANSIDE

DEVELOPMENT SERVICES DEPARTMENT / ENGINEERING DIVISION

November 2, 2010

Subject: REQUEST FOR PROPOSAL – Amendment of the City of Oceanside Master Plan of Drainage (MPD) to reflect revisions, additions and other changes in facilities.

The City of Oceanside requests proposals from the engineering firms to amend the City Master Plan of Drainage to reflect revisions, additions and other changes in drainage facilities. The selected firm will use the draft Master Plan of Drainage (MPD) prepared by Bureau Veritas, to serve as the basis for amending this City of Oceanside Master Plan of Drainage. Besides the enclosed DVD, a printed copy of the Bureau Veritas MPD is available upon request at the City of Oceanside, City Hall South- Engineering Counter. Additional copies may be requested from the Engineering Counter staff, and cost paid for by the requestor. The City desires to retain a firm that demonstrates recent local experience in San Diego County and has successfully completed similar projects.

The scope of services is summarized as follows:

- Task 1: Obtain and Compile Hydrologic Information
- Task 2: Update Inventory and Database with New Information
- Task 3: Research Methodologies and Software Tools
- Task 4: Review and Evaluate Existing and Proposed Detention Basins
- Task 5: Hydrologic Analysis
- Task 6: Revise Recommended Storm Drain Upgrades and Improvements
- Task 7: Revise Construction Cost Estimates
- Task 8: Capital Improvement Projects (CIP)
- Task 9: Drainage Impact Fee Evaluation
- Task 10: Meetings, Coordination and Delivered Product

Additional drainage tasks (optional at City discretion)

- Task 11: San Luis Rey River - Flood Risk at Major Arterials
- Task 12: Loma Alta Creek Watershed Studies
- Task 13: Buena Vista Creek Watershed Studies
- Task 14: Update City Drainage System Design Criteria

Proposals for this project will be accepted up to 4:00 p.m. on December 03, 2010

- **hand delivery, or**
- **via mail at City of Oceanside Development Services 300 North Coast Highway, Oceanside, CA 92054 Attn: Scott O. Smith**

Please contact Ulf Fagerborn at 760-435-5073 or by email at ufagerborn@ci.oceanside.ca.us if you have any questions related to this request.

The project scope of services to be provided is more particularly described as follows:

Task 1: Obtain and Compile Hydrologic Information

The selected consultant will meet with City Engineering Division staff to determine what information is available from the City. This will include, but may not be limited to, previous master plans of drainage, other hydrologic studies, storm drain inventory and design information, detention basin design information, flood insurance studies, and watershed studies. Similarly, the CONSULTANT will obtain pertinent information from other local, state, and federal agencies and any other pertinent sources. Proposal should identify probable sources for hydrologic information and list probable information to be gathered.

Task 2: Update Inventory and Database with New Information

The CONSULTANT will review the Master Plan of Drainage (MPD) prepared by Bureau Veritas, as presented in their final report to the City in December 2005. In the process of review and meeting with City, some newer or more accurate information may be available that was not previously incorporated into the 2005 MPD. The CONSULTANT will incorporate the MPD and new information into the City's existing GIS database and update or revise data as necessary. Additionally, some information from other sources, obtained in Task 1, may also need to be incorporated.

Task 3: Research Methodologies and Software Tools

The CONSULTANT will research currently available methodologies and software tools for use in preparation of the amended MPD. The CONSULTANT will evaluate the methodologies and tools and make recommendations to the City. Proposed criteria for evaluation shall be submitted to the City and discussed prior to the research. GIS compatibility and conversion of data, calculations and updated mapping will be considered as part of the criteria. Methodologies and software will be selected by the City based upon their review of these recommendations.

Task 4: Review and Evaluate Existing and Proposed Detention Basins

The CONSULTANT will obtain and review any existing available data and as-built information related to existing detention basins within or upstream of the City. This information will be used to estimate attenuated peak flows upstream of MPD facilities. It is anticipated that 10 to 15 existing basins and up to 5 proposed basins will have to be analyzed by the CONSULTANT under this project to determine attenuated peak flows. The CONSULTANT will use the results of the analyses to make recommendations, as appropriate, regarding possible modifications to basins. Optimization of the City's drainage infrastructure is the primary goal of this task; however, these basins will be analyzed for four discrete storm events, as defined in Task 5. The selection and number of basins to be analyzed shall be at the discretion of the City, and the result of the analysis shall be made part of the amended Master Plan. Proposal should assume one week of field survey to supplement and/or verify detention basin data.

Task 5: Hydrologic Analysis

The CONSULTANT will prepare hydrologic models using the methodologies and software selected in Task 3. The geographic extents of this modeling will be approximately the same as previously prepared by Bureau Veritas, as presented in their final report to the City in December 2005. The CONSULTANT will extract information from the Rational Method calculations prepared for the 2005 MPD. Pertinent information obtained from Tasks 1, 2 and 4 will also be incorporated into the new hydrologic model, generating results for the 100-year, 25-year, 10-year, and 2-year storm events. The CONSULTANT shall also produce an updated map (Appendix A, Figure 4 – 2005 MPD) including an acceptable method of referencing each mapped Master Plan Facility to the appropriate hydrologic calculations.

Task 6: Revise Recommended Storm Drain Upgrades and Improvements

From the results of Tasks 4 and 5, the CONSULTANT will revise and update the 2005 MPD tables summarizing facility upgrades and improvements. Criteria previously used will likely be assumed for determining adequacy of existing facilities and for sizing new facilities. One notable addition to this will be the consideration of multiple-year (100, 25, 10) frequencies.

Task 7: Revise Construction Cost Estimates

From the results of Task 6, the CONSULTANT will revise and update the 2005 MPD tables summarizing construction cost estimates. Cost estimates will be based upon varying sizing criteria for different sizes and conditions (e.g., sump vs. flow by inlets). In addition to using revised facility sizes, a more current unit price list will be used.

Task 8: Capital Improvement Projects (CIP)

The CONSULTANT will assist the City in identifying Capital Improvement Projects under the City's Drainage Program. The CONSULTANT will use the completed analyses to assist engineering staff in preparing documentation for these projects. The following criteria shall generally be used to identify and estimate CIPs:

- a) Undersized Master Plan facility sizes (36-inch diameter and greater)
- b) Identified chronic flood-prone areas
- c) Identifying undersized CIP facilities from 18-inches up to MPD sizes
- d) Identifying the need for additional inlets (CBs) and other drainage structures

It is anticipated that considerable engineering judgment, including close coordination with City staff, will be required to develop proposed Capital Improvement Projects. Schematic plan drawings shall be provided for each proposed CIP and the location cross referenced on the updated map (Appendix A, Figure 4 – 2005 MPD). Separate cost estimates shall also be provided for each proposed CIP. The CONSULTANT should assume up to 100 locations/projects will be identified.

Task 9: Drainage Impact Fee Evaluation

The CONSULTANT will assist the City in evaluating the City's Drainage Impact Fee structure based upon the results of Tasks 6, 7, and 8 and make recommendations regarding possible alternative fee structures.

Task 10: Meetings, Coordination and Delivered Product

Meetings and coordination are expected with the above tasks. Ongoing coordination and a number of meetings with the City engineering staff and operations personnel to identify chronic flood-prone areas and to obtain information are anticipated. Total hours anticipated for meetings and for coordination should be estimated separately from the other tasks. No less than 20 meetings should be assumed; specify if more than 20 are anticipated.

The CONSULTANT shall deliver to the City a minimum of 4 hard copies and a digital version of the final report, any project specific software used by the consultant and acceptable to the CITY, and a list of commercially available software required by the City to manage and maintain the amended master plan.

ADDITIONAL DRAINAGE TASKS (OPTIONAL AT CITY DISCRETION)

Task 11: San Luis Rey River - Flood Risk at Major Arterials

While the construction of levees along the San Luis Rey River has reduced some risk of flooding within the City, there still remains some risk. Part of this risk is associated with the lack of an approved Vegetation Management Plan within the river channel. If the levee is overtopped, there is the potential for major arterials, essential for passage of emergency vehicles, to be impassable. The CONSULTANT will determine which roads classified at least as "major arterial" are subject to flooding based on water surface elevations from the FIRMs published prior to the construction of the levees. The CONSULTANT will then evaluate the degree of flooding risk on these roads and make recommendations for each road regarding emergency vehicle travel.

Task 12: Loma Alta Creek Watershed Studies

Based on a recent floodplain analysis of Loma Alta Creek, some properties adjacent to the creek are at risk of flood damage in a 100-year storm event. The CONSULTANT will restudy the hydrology of the watershed, incorporating any pertinent results of previous tasks. One goal of this study will be to optimize the drainage system to reduce the risk of downstream flood damage from Rancho Del Oro Drive to the Pacific Ocean. This task will include the evaluation of possible new detention and modification of existing and/or planned detention basins. The CONSULTANT will also evaluate solutions for reducing the risk of flood damage to properties along Industry Street, at the Cavalier Mobile Estates, and at the Oceanside RV Park.

Task 13: Buena Vista Creek Watershed Studies

The CONSULTANT will study the hydrology of the watershed, incorporating any pertinent results of previous tasks. Pertinent information will include, but not be limited to, a recent study of the Buena Vista Creek Watershed upstream of South Melrose Drive within the City of Vista. That study, which incorporates possible detention basins, should be evaluated and if appropriate, extended downstream to the Pacific Ocean. The goal of this study will be to optimize the drainage system to reduce the risk of flood damage within the City of Oceanside. This task will include the evaluation of possible new detention and modification of existing and/or planned detention basins. The CONSULTANT will also evaluate solutions for reducing the risk of flood damage to properties upstream of Thunder Drive and at College Boulevard.

Task 14: Update City Drainage System Design Criteria

The City is in the process of updating its Engineers Design and Processing Manual. The selected engineer will update Chapter II, Section 6 of the manual, the City's Drainage System Design Criteria. This update will incorporate requirements from the Master Plan of Drainage, current drainage design standards, hydrologic methods and regulatory requirements for storm water. The CONSULTANT will meet with City Engineering staff on a regular basis and coordinate a public comment review to obtain input from the professional design community and the general public.

A mandatory pre-submittal meeting is scheduled at the City of Oceanside, 300 N. Coast Highway, Oceanside, CA 92054 on Tuesday, November 23, 2010, from 10:30 a.m. to 12:00 noon at the City Council Chambers. Reservations for the meeting shall be made to: Vida at 760-435-3528. The purpose of the meeting is to discuss any clarifications.

Please reply with the following minimum information:

Demonstrated local recent experience in San Diego County area of successful completion of similar projects, include client name and contact phone numbers for verification purpose.

Provide a list and relevant experience of key staff which shall be available to perform the actual work on this proposed project.

Provide a fee estimate for completion of the project on a task-by-task basis and totals as follows:

Tasks 1 through 10 (estimate task-by-task and total cost)

Additional Drainage Tasks 11 through 14 (estimate task-by-task and total cost).

Note: The City may choose to include any or none of tasks 11 through 14.

Preliminary anticipated time for completion of the project on a task-by-task basis.

Provide a current and anticipated schedule of hourly rates.

Exhibit B

The following firms attended the pre-proposal meeting:

Ninyo & Moore

Cornerstone Eng.

Rick Eng.

I.E.C.

VA Consulting, Inc.

URS Corporation

West Consultants, Inc.

RBF Consulting

Bureau Veritas

AECOM

Kimley-Horn & Assoc.

Tory R. Walker Engineering

PSOMAS

DUDEK

Exhibit C

**PROPOSAL RATINGS
for
MASTER PLAN OF DRAINAGE UPDATE**

<i>CONSULTANT</i>	<i>CITY</i>	<i>TOTAL POINTS</i>
1. Tory Walker Engineering	Vista	336
2. Rick Engineering	San Diego	322
3. RBF Consulting	San Diego	302