



# Building A Better Long Beach

**Item 3**

March 3, 2008

## REDEVELOPMENT AGENCY BOARD MEMBERS

City of Long Beach  
California

### RECOMMENDATION:

Approve and authorize the Executive Director to amend an agreement with DMJM+Harris for research and design of storm drain and pump station improvement plans for the West Long Beach Industrial Redevelopment Project Area. (West Industrial – District 1)

### DISCUSSION

In the Fall of 2005, the Redevelopment Agency (Agency) entered into negotiations with DMJM+Harris for the research and design of a storm drain improvement plan to eliminate flood conditions in the West Catch Basin and the West Long Beach Industrial Redevelopment Project Area (Project Area). Each year the Project Area suffers from high flood water conditions during the winter months when inclement weather occurs. These conditions were identified in the 2004 West Long Beach Industrial Strategy Action Plan as a major problem in need of correction. The City of Long Beach Public Works Department prepared an updated Storm Drain Master Plan, which DMJM+Harris used to research and design a Storm Drain Improvement Plan.

Due to land constraints, an extensive Hydrology and Hydraulics Report (Report) was needed. The final Report recommendation is to divert part of drainage area from SD-23 to drainage area SD-03 and require a complete upgrade to the existing pump station location SD-03, including electrical, mechanical and structural elements (Exhibit A – Site Map). These additional studies utilized funding in the existing budget.

Board approval is requested to increase the contract by \$710,000. The additional funding changes the total contract from \$608,000 to \$1,318,000. The new termination date is December 31, 2009. An updated schedule is provided for your review (Exhibit B – Amended Scope of Services). Construction will begin with the storm drainpipe and box culvert, up to the point of where the diversion of flows would occur. The remainder of the storm drain construction would occur concurrently with the pump station improvements (Exhibit C – Project Timeline).

**THE CITY OF LONG BEACH REDEVELOPMENT AGENCY**

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REDEVELOPMENT AGENCY BOARD MEMBERS

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SUGGESTED ACTION:

Adopt recommendation.

Respectfully submitted,



CRAIG BECK  
EXECUTIVE DIRECTOR

CB:DSW:AES:aes

Attachments: Exhibit A – Site Map  
Exhibit B – Amended Scope of Services  
Exhibit C – Project Timeline



# City of Long Beach Westside Storm Drain Improvements

Upgrade of SD-03  
Pump Station required



EXHIBIT A

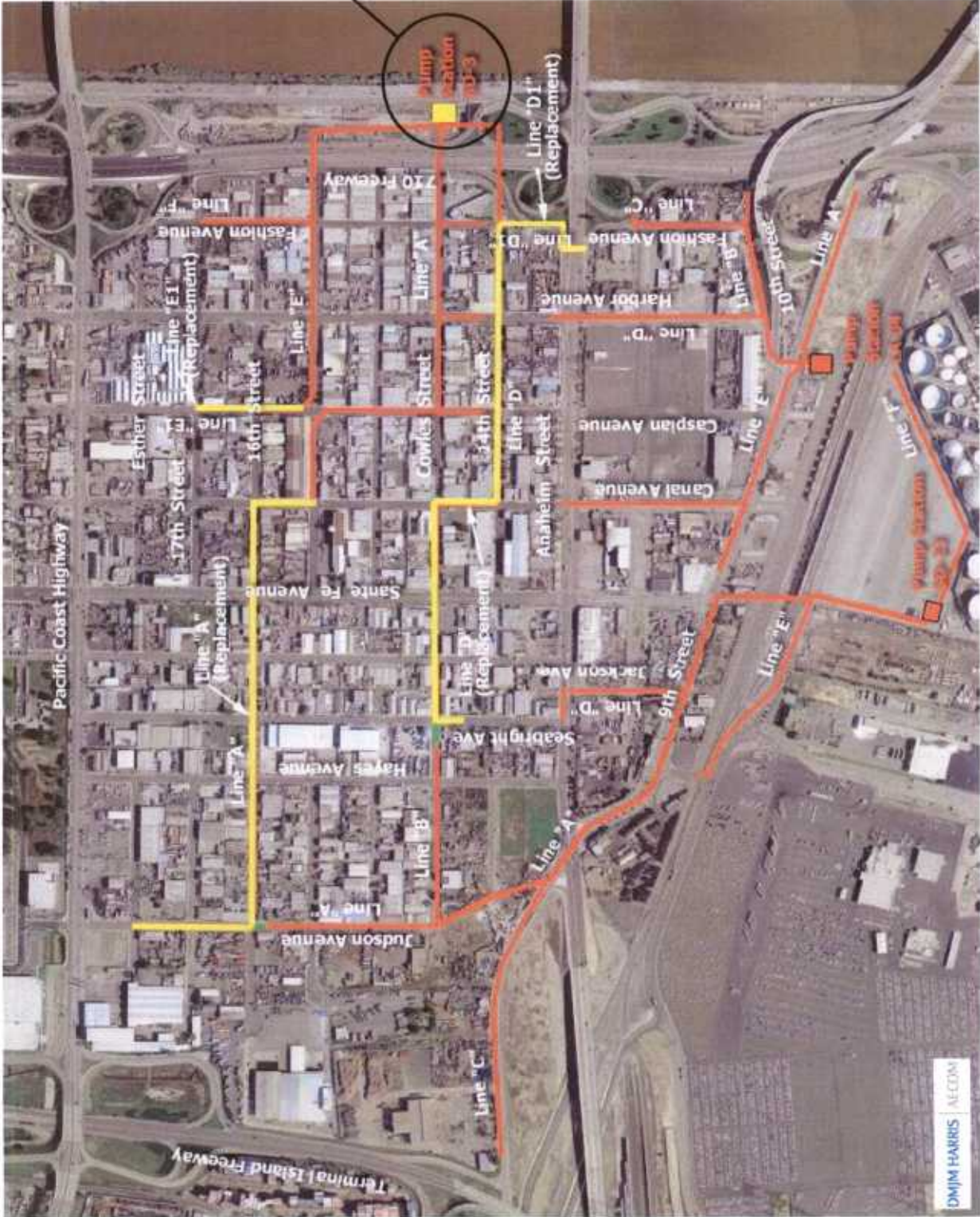
Map Not to Scale

August 2, 2006

**Legend:**

- Existing Storm Drain (Abandon)
- Proposed Storm Drain
- Existing Storm Drain
- Existing Pump Station

Diversion (SD-23 to SD-03)  
Drainage Study Area  
50yr-Storm



## Exhibit B

DMJM HARRIS | AECOM

### Westside Storm Drain Amended Scope of Services

February 4, 2008

The following scope of services reflects the remaining items of work necessary to complete the project. Task numbers coincide with the original scope of services and additional tasks have been added as necessary.

#### **TASK 1 PROJECT MANAGEMENT/ADMINISTRATION/MEETINGS**

DESIGN CONSULTANT shall continue to supervise, coordinate, monitor and review design for conformance with local agency standards, policies and procedures. DESIGN CONSULTANT shall be responsible for the following:

- Maintain continuous communication with the City's Project Manager
- Monitor and coordinate progress of DESIGN CONSULTANT's team.
- Conduct monthly Project Development Team (PDT) meetings.
- Provide a monthly Project Status Report to the City.
- Assist staff in making presentations at public meetings on an as-needed basis.
- Maintain continuous awareness of the status of each task as it proceeds and make provisions to expedite and resolve any difficulties that may impede progress.
- Ensure project delivery on schedule and within budget.

DESIGN CONSULTANT shall also continue to coordinate and facilitate regular meetings with CITY staff, utility companies and other participating agencies to discuss work progress, schedule and related issues in order to exchange information, discuss and resolve issues and to maintain progress of the project. DESIGN CONSULTANT shall prepare meeting minutes with an action item matrix and agenda and distribute to the CITY, and other attendees or organizations, as required. It is assumed that 12 meetings will be conducted.

##### **Task 1 Deliverables:**

- Meeting Attendance Rosters and Minutes
- Detailed Project Schedule
- Phone Logs
- Current Status of Project Issues

#### **TASK 2 FIELD REVIEWS**

DESIGN CONSULTANT shall perform a field review of the site at the 65% and 90% completion stage to ensure that all field conditions have been addressed in the project plans and specifications.

#### **TASK 3 AGENCY & UTILITY COORDINATION**

DESIGN CONSULTANT will continue to coordinate all aspects of the project with the utility companies within the project site as well as adjacent Agencies including the County of Los Angeles and Caltrans, as necessary.

### 3.01 UTILITY COORDINATION:

Coordination with the utilities companies will include the following items:

- Submit 65% and Final plans to the utility companies for their review and shall request utility information, verifications, and relocation plans from the utility company, if applicable. Plans will only be distributed to those utility companies with facilities within the project area, as identified from the initial request for information.
- Coordinate with utility companies to implement upgrade of their facilities, as needed, within the project limit.
- Review utility relocation plans, if applicable, received from the utility companies for conformance to project needs.
- Assist the City in coordinating necessary relocations of utility company facilities. It is assumed that the utility companies will be responsible for the design of their relocations.

The DESIGN CONSULTANT will be responsible for coordinating technical design issues with the utility company, reviewing utility relocation agreements (as provided by the City or utility company) to provide input and comment from a technical design standpoint, and assisting in schedule management between the City and utility company as it relates to the overall design schedule. City shall be responsible for execution of any agreements necessary with the utility companies.

### 3.02 AGENCY COORDINATION:

The DESIGN CONSULTANT will meet individually with each of the project stakeholders to disseminate project information and obtain feedback. The DESIGN CONSULTANT will assist the City in the acquisition of any required permits, including the County/Corps of Engineers and Caltrans Encroachment permits.

#### Task 3 Deliverables:

- Distribution of one 11x17 plan set at the 65% and Final completion levels to all utility companies that have facilities within the project site as well as stakeholder Agencies.

## TASK 4 INITIAL ENGINEERING STUDIES

### 4.01 Completed

### 4.02 GEOTECHNICAL REPORT

Team member, Leighton & Associates, shall perform a subsurface exploration consisting of drilling, logging, and sampling of twelve hollow-stem auger borings along the proposed pipeline alignments and one at the pump station. The borings will be drilled to depths ranging from 20 to 35 feet for the pipeline and 50 feet at the pump station. The borings will be drilled to the proposed depth or auger refusal, whichever is shallower. The hollow-stem auger will be logged by a member of our technical staff. Representative relatively undisturbed and bulk soil samples from the borings will be collected at selected depth intervals and transported to our laboratory for testing. The borings will be backfilled with the native soil cuttings and topped with cold asphalt where asphalt is penetrated. Excess soil cuttings will be spread over the site. Included are the following tasks:

- Provide a traffic control crew during drilling, where necessary.
- Perform laboratory testing on selected soil samples to determine in-situ dry density and moisture content, strength characteristics, sand equivalent, maximum dry density, R-value, pH, minimum resistivity, chloride, and sulfate content.
- Perform preliminary geotechnical analysis of collected data including:
  - Characterization of earth materials and groundwater level;
  - Site-specific geologic hazards, including location and characteristic of known faults near the site and the potential for fault rupture through the site, liquefaction, seismic-induced landsliding, and earthquake-induced ground subsidence;
  - Evaluation of corrosion potential of onsite soils;
  - Recommendations for design and construction of the proposed pipeline and pump station;
  - Recommendations for shoring;
  - Recommendations for pavement design; and
  - Recommendations for earthwork and site grading during construction.
- Prepare a geotechnical report presenting our findings and recommendations.

**Task 4.02 Deliverables:**

- Five copies of Final Geotechnical Report

**4.03 Completed**

**4.04 UTILITY POTHOLING**

Team member, Abratique & Associates, will perform potholing services to determine actual horizontal and vertical depth of utilities that cross the proposed storm drain improvements. A total of sixty (60) potholes are provided. The potholes will be shown on the project plans and all information will be provided in a tabular format.

**Task 4.04 Deliverables:**

- Five copies of the pothole map and logs

**TASK 6 PS&E PREPARATION**

The DESIGN CONSULTANT will submit plans, specifications and estimates at levels of completion of approximately 65%, 95% and 100% (Mylar) for three separate PS&E packages. The storm drain scope below is all inclusive though it is assumed that the storm drain will be divided into two phases and therefore, will be separate PS&E packages to expedite the bidding and construction process. The third PS&E package will consist of the pump station plans and the forebay/site plans. It is expected that 100% plans will be complete and include comments and input from all affected parties.

- 6.01 Title Sheet/Typical Sections/General Notes:** Sheets will be provided for the project title sheet, sheet index, typical sections, general notes, abbreviations, and master list of construction notes.

- 6.02 **Storm Drain Plans:** Plans & Profile sheets will be provided at 40 scale for the storm drain facilities within the project, in conformance with City and County requirements.
- 6.03 **Storm Drain Details:** Enlarged details will be included for non-standard construction items and enlarged detailing to clarify the proposed construction.
- 6.04 **Pump Station - Title Sheet/General Notes:** Sheets will be provided for the project title sheet, sheet index, general notes, abbreviations and a master list of construction notes.
- 6.05 **Pump Station - Forebay/Site:** A site layout will be provided to address any construction required, including curbs and asphalt paving, to address erosion problems. It is assumed that the forebay will require reconstruction either due to deterioration or needing increased capacity. Layout and details for this reconstruction are provided.
- 6.06 **Pump Station Plans:** These plans will supplement the storm drain plans and will include detailed studies and analyses, plans, specifications and estimates for the following items:
- Existing pump station sump improvements consisting of divider walls, back wall, and possibly anti-rotation baffles, and motor room floor improvements, if necessary.
  - Re-lining of the three 36-inch diameter discharge pipes.
  - Mechanical improvements consisting of replacement of the existing pumps with 70-cfs capacity pumps, ventilation system for the motor room and the wet well, and a standby natural gas engine generator to provide power to the pump station during a commercial power outage.
  - Electrical improvements to increase the service from 1,200 amps to 1,600 amps, as well as bringing the entire system into compliance with current codes.
  - A new building to house the new electrical equipment and the standby generator.
- 6.07 **Specifications:** Prepare Technical Special Provisions per City requirements for bidding by the City. Special provisions will be prepared in "Greenbook" format. CITY will prepare "boilerplate" up front bid documents (i.e. Notice to Contractors, Instructions to Bidders, Contractor Forms, etc.).
- 6.08 **Cost Estimates:** Prepare quantity calculations and final construction cost estimates in accordance with City of Long Beach requirements utilizing current City, Caltrans and the County of Los Angeles construction cost data.

**Task 6 Deliverables:**

- Ten half-size copies of plans and estimate at 65%, 95% and 100% completion milestones for three PS&E packages
- Ten Copies of specifications and cost estimates at 95% and 100% completion milestones for three PS&E packages
- One full-size mylar or vellum of 100% drawings for three PS&E packages

# EXHIBIT C

