

EXHIBIT "B"

SCOPE OF WORK

Harbor Department Engineering Guidelines: Consultant acknowledges receipt, review and understanding of the City's Harbor Department's "Engineering Design Guidelines," and "CADD Manual" (collectively "Guidelines") and shall perform this Scope of Work in accordance with these Guidelines. Within ten (10) days of this Agreement's effective date, Consultant shall notify Engineer in writing of any terms, criteria, or procedures contained therein which Consultant does not intend to use in performing the Scope of Work. Engineer shall provide a written response to any such comments received from Consultant, which shall be binding for purposes of this Agreement.

Consultant shall initiate, plan, execute, direct, control, and administer the Project as defined in Exhibit "A" by effectively organizing, staffing, directing, integrating, and coordinating the required Project Tasks and Subtasks as described herein. These services shall be performed in a professional fashion as per current project management principals, guidelines, and standards promoted by recognized project management organizations and institutions.

Task 1 Project Management and Coordination

Consultant shall provide state-of-the-art project management services for the Project throughout the term of the Agreement. This project management effort shall be provided for the following processes: Project initiation, Project planning and scheduling, Project controls, Project execution, and Project administration and closing. Consultant shall deal with issues, including, but not limited to, Project integration, Project scope development, Project management, cost management, quality assurance and control issues, human resource requirements, Project communications, and Project risk management. Task 1 includes the following:

Task 1.A Project Management Plan

Consultant shall provide a detailed project management plan (PMP) including information on coordination with appropriate agencies to ensure timely completion of the PS&E packages. The PMP shall include a schedule for milestone completion and an hourly breakdown for each task and subtask. The PMP shall be delivered within 30 days of the first Notice to Proceed issued under the Agreement.

Task 1.B Deliverables

Consultant shall produce the original work product and ten copies or exact reproductions thereof of all deliverables submitted to the City. Deliverables may include, but are not limited to, drawings and/or plans, specifications, estimates, reports, records, reference material, data, charts, documents, renderings, computations, computer tapes or disks, and other items of any type whatsoever, whether in the form of writing, figures, delineation or electronic data prepared or compiled in connection with this Agreement.

1. Drawings produced by Consultant shall conform to the best standards of the profession in which the generator of the drawings practices. Information shall be

Task 1.C Suitability of Work and Consultant Cooperation

Consultant shall furnish, in accordance with the agreed upon schedule, a complete, practical, economical design, plans, specifications, and estimates (if such plans and specifications are within the scope of Consultant's work), and related corrections and changes which are best suited for the contemplated construction, and ensure all work is completed in accordance with this Agreement and with sound engineering principles and is signed and sealed by a licensed Professional Engineer and/or Architect, as appropriate. Consultant shall, upon request of the Engineer, provide all calculations, data, charts, and other information of any type whatsoever which support its designs or other work performed pursuant to this Agreement. Consultant may not assert as a basis for refusing to provide such information that it is proprietary. Consultant shall satisfy Engineer that design decisions are based on objective evaluation of the requirements of the facility owner and user, meet site-specific conditions, comply with Project construction cost budget, and minimize long-term operation and maintenance costs. Consultant is aware and agrees that the City has the right to submit the Consultant's work product to independent design reviewers. Consultant agrees to fully cooperate with such reviewers if City determines review is appropriate. Consultant's obligation to cooperate shall include the obligation to respond in an objective professional manner to requests for information, and, if expressly requested by Engineer, to enter into a dialogue with the reviewer regarding the comments of the reviewer on the work

Task 1.D Quality Control/Quality Assurance Plan

In conjunction with the PMP, the Consultant shall also prepare a quality control/quality assurance plan (QC/QA Plan) for the Project, within 30 days of issuance of the first Notice to Proceed under this Agreement. The QC/QA Plan shall be prepared in accordance with minimum requirements of the City's Harbor Department, recognized professional standards, and shall identify procedures for reviewing and checking computations, design drawings and other submittals specific to the design phase for both Consultant and Subconsultants. The QC/QA Plan shall also identify roles and responsibilities for implementing and monitoring quality control and quality assurance. As part of the Consultant's QC/QA Plan, Consultant Senior Staff shall perform and independent review of all documents for completeness, technical accuracy, and coordination and code compliance at the end of each work phase prior to submittal of deliverables to Engineer.

Task 1.E Prepare Project Schedule

Consultant shall develop a computerized critical path method schedule (CPM Schedule) using Microsoft Project. This CPM Schedule shall be created in close coordination with the Engineer or Engineer's designee. The initial schedule shall be submitted 30 days after the issuance of the first Notice to Proceed under this Agreement. The CPM Schedule shall initially focus on design phase activities, including significant milestones, permits, utility coordination and related Tasks, to allow for effective planning, monitoring and reporting throughout the Project. It shall combine activities related to cost, planning and design, reviews, delivery, and approvals and shall provide uniform guidance for planning, scheduling, budgeting, and coordination efforts. Updates to the CPM Schedule should be issued each month to show progress and done so as to coincide with the monthly Project Development Team (PDT) Meetings, where reporting shall take place. Consultant shall maintain the CPM Schedule.

B. Field Investigation:

1. Following review of available geotechnical information, Consultant shall develop a geotechnical work plan, including determination of the number of borings, cone penetration tests (CPT) or other data acquisition and testing required for design of the Project.
2. Submit a boring plan indicating the location and depths of all borings and CPTs for approval by Engineer prior to sampling. Boring plan shall indicate substructures in the vicinity of the proposed borings.
3. Detailed planning of field investigation:
 - a. Arrange for and schedule drillers.
 - b. Make preparations for sample handling, transportation, and testing.
 - c. Locate test borings.
 - d. Locate utilities and other onsite interferences and mark location on the ground.
 - e. Obtain necessary permits.
 - f. Schedule field staff.
4. Perform borings and other fieldwork as necessary for the surface and subsurface investigation. As initial surface and subsurface investigation is accomplished and data is reviewed, Consultant shall adjust boring depths, locations, and number of borings and CPTs using prudent engineering judgment and considering subsurface conditions and project requirements and as approved by Engineer. CPT data shall be obtained during borings.
5. Borings in uncontaminated areas shall be backfilled with soil cuttings except CPTs will not be backfilled. Borings and CPTs in contaminated areas shall be backfilled with grout. Contaminated drilling spoils shall be left on-site in drums for disposal by others.

C. Laboratory Testing:

1. Perform laboratory testing to include, but not necessarily limited to the following:
 - a. Index testing:
 - i. Moisture content/dry density
 - ii. Specific gravity
 - iii. Atterberg limits
 - iv. Sand equivalent
 - v. Sieve analysis
 - vi. Resistivity
 - b. Consolidation tests with time plot.
 - c. Soil Strength test:

- i. Trench excavation, backfill and shoring.
- ii. Site grading, fill placement and compaction.
- iii. Subgrade preparation for foundations and footings of structures.
- iv. Bedding requirements for utilities and substructures.
- v. Dewatering.

5. Corrosive potential

- a. Determine soil corrosion potential and recommend protective measures for utilities and substructures.

F. Final and draft reports:

The findings, conclusions and recommendations shall be discussed with City as they are developed. Upon completion of the work, Consultant shall submit five copies of the draft report containing the findings, conclusions and recommendations together with the supporting field and laboratory data for review by City. Consultant shall review and address City's comments, and submit ten copies of the final report to City.

G. Plans, Specifications, and Estimates review:

Consult with designers during Preliminary and Final Designs as necessary to implement recommendations and review project plans, specifications and estimates for conformance with geotechnical recommendations.

Task 2 – Deliverables

- Meeting minutes
- Boring plan
- Obtain necessary permits
- Soil data reports
- Draft and final geotechnical reports

Task 3 Conceptual Study and Report Phase

After issuance of written Notice to Proceed, Consultant shall perform Conceptual Study and Report for the Project. This work shall include but not necessarily be limited to the following:

- A. Visit the site and become familiar with the Project area.
- B. Review available survey, coordinate control information and record plans and use this material to establish site boundaries, locations of existing facilities, utilities (including utilities below grade) and existing grades. Provide a list of additional surveys required, which will be performed by the City's survey forces.

1. Architectural design
2. Site plan showing coordination and relationships with overall site development
3. Construction phasing
4. Removal
5. Substructure
6. Civil design (including grading, paving, and roadways)
7. Structural design
8. Mechanical/HVAC design
9. Plumbing design
10. Electrical design
11. Water, sewer, and storm drain design
12. Landscape and hardscape design
13. Striping and signage plan
14. Utility design
15. Site/Area lighting design
16. Rail and signal design
17. Outline specifications for each discipline of work
18. Updated project cost estimate and schedule
19. Utility demand estimates
20. Perform all appropriate code coordination and review with applicable local, state, and federal agencies
21. Security design
22. Dredging and landfill design
23. Coastal and harbor design

Task 4 – Deliverables

Deliverables from this phase will provide a general overview of the entire proposed development, but not necessarily attempting to group the plans by anticipated construction contract sets. The deliverables will include:

- Architectural plans
- Site plan
- Construction phasing plans
- Removal plan
- Substructure plan
- Civil plans (grading, paving, and roadway)
- Structural plans
- Mechanical/electrical/plumbing plans
- Utility plans
- Water, sewer, and storm drain plan
- Landscape and hardscape plan
- Signing & striping plans
- Site/area lighting plans
- Rail and signal plans
- Construction cost estimate

- Architectural plans
- Site plan
- Construction phasing plans
- Removal plan
- Substructure plan
- Civil plans (grading, paving, and roadway)
- Structural plans
- Mechanical/electrical/plumbing plans
- Utility plans
- Water, sewer, and storm drain plan
- Landscape and hardscape plan
- Signing & striping plans
- Site/area lighting plans
- Rail and signal plans
- Construction cost estimate
- Construction schedule
- Associated reports and analysis work
- Outline of specifications
- Security plans
- Dredging and landfill plans
- Coastal and harbor plans

Task 6 *Final Design Documents (100% DESIGN)*

- A. Upon issuance of a written Notice to Proceed from the Engineer, or written provisional Notice to Proceed with individual elements, Consultant shall prepare the Final Design submittal and respond to and incorporate all comments received from the City and City Department of Building and Safety.
- B. Plans, specifications, and estimates shall be stamped and signed by an architect or engineer appropriately licensed to practice in the State of California.
- C. Submit to Engineer all construction quantities as well as structural, civil, electrical, mechanical, and any other calculations used in the design of the Project.
- D. Submit a detailed estimate of the cost based on the bid items and provide a Class "A" estimate.

Task 7 – Deliverables

- Original drawings
- Unbound original specifications
- Final cost estimate
- Final schedule
- Final quantities and calculations

Task 8 *Bidding Phase*

Consultant shall provide assistance to the City during the contract(s) advertising and award process to include the following:

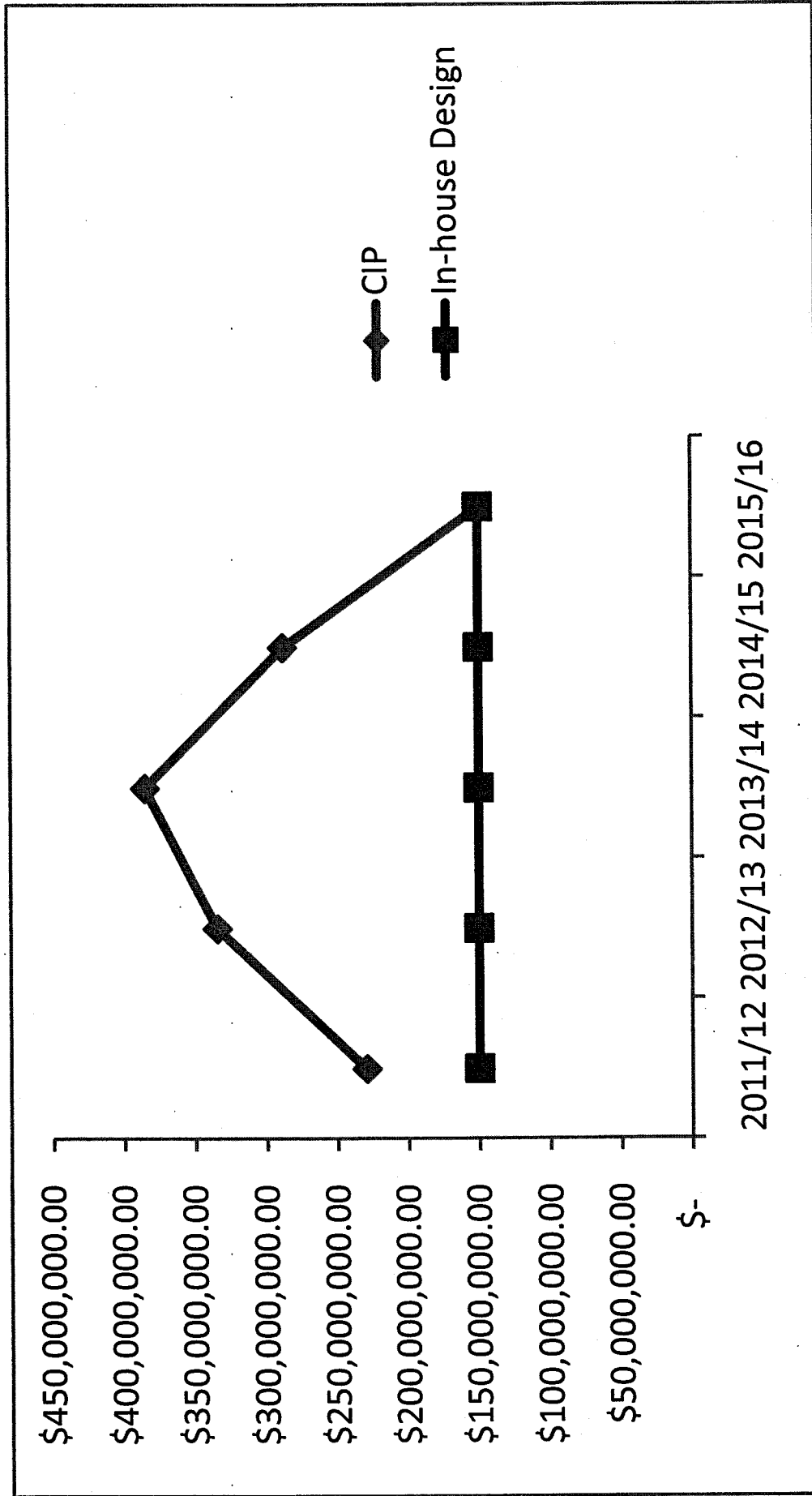
- A. Assistance in pre-qualifying potential bidders
- B. Attendance at pre-bid meetings
- C. Reviewing and providing responses to bidder inquiries
- D. Preparing and issuing addendums as needed
- D. Assistance in reviewing bids

Task 9 *Design Services during Construction*

Consultant shall provide the following services in support of the City on-site construction management efforts.

- A. Office Engineering
 - 1. Check detailed construction drawings, submittals, shop and erection drawings, and substitutions submitted by the project contractor for compliance with permits and plans, specifications, and estimates.
 - 2. Review specific non-routing laboratory, shop, and mill test reports of materials and equipment as directed by the City.
 - 3. Address requests for information ("RFIs") from the project contractor and Building and Safety inspectors.
 - 4. Prepare record (as-built) drawings on original plans as per the data supplied by the Project contractor via the City's construction manager.
- B. Field Engineering

CIP Resource Allocation



Written Evaluation of On-Call Engineering Services RFP

Consultant	Score Rater 1	Rank	Score Rater 2	Rank	Score Rater 3	Rank	Score Rater 4	Rank	Score Average	Rank Average
AECOM TECHNICAL SERVICES, INC	75	3	87	2	84	2	70	3	79.00	2.50
BERGERABAM INC	79	1	79	9	69	11	61	9	72.00	7.50
CH2M HILL	74	6	87	2	69	9	72	1	75.50	4.50
DEAN RYAN CONSULTANTS & DESIGN SBE	69	10	84	6	72	4	66	5	72.75	6.25
HDR ENGINEERING, INC	69	10	78	11	76	3	60	10	70.75	8.50
MOFFATT & NICHOL	75	3	87	2	71	6	71	2	76.00	3.25
PSOMAS	74	6	88	1	91	1	65	6	79.50	3.50
TETRA TECH	79	1	82	7	69	9	64	7	73.50	6.00
TRANSYSTEMS CORPORATION	74	6	87	2	70	7	62	8	73.25	5.75
URS CORPORATION	75	3	79	9	70	7	69	4	73.25	5.75
VCA ENGINEERS, INC SBE	73	9	80	8	72	4	50	15	68.75	9.00
Team 12	68	12	73	12	62	13	58	11	65.25	12.00
Team 13	66	14	72	14	61	14	53	13	63.00	13.75
Team 14	68	12	60	16	61	14	50	15	59.75	14.25
Team 15	64	16	54	17	67	12	54	12	59.75	14.25
Team 16	62	18	73	12	41	18	53	13	57.25	15.25
Team 17	65	15	46	18	61	14	49	17	55.25	16.00
Team 18	64	16	70	15	58	17	42	18	58.50	16.50
Team 19	62	18	46	18	31	19	40	19	44.75	18.50
Team 20	0								0.00	0.00

PROPOSAL EVALUATION SCORESHEET

On Call Engineering Services

Firm: _____

Evaluator: _____

Date: _____

Multiply each category with appropriate weighing factor

I. PROJECT APPROACH	Weighing Factor	Range (1-5)	Score	Comments
Understanding of On-Call				
A. Program	1		0	
II. PROJECT TEAM				
A. Project Manager	1		0	
B. Key Personnel	1		0	
C. Team Organization/Experience	1		0	
E. Staffing Levels/Firm Organization	1		0	
III. Engineering Services				
A. Design Services	6		0	
B. Project Management	1		0	
C. Hourly Billing Rates	5		0	
D. References	2		0	
E. Permitting	1		0	
Total Score			0	

- 1 - Marginal Abilities, Serious Deficiencies
- 2 - Adequate with Minor Deficiencies
- 3 - Adequate - Standard - Acceptable
- 4 - Well Qualified
- 5 - Exceptionally Well Qualified

Interview Evaluation Scoresheet
On Call Engineering Services

Questions and Answer		Score
1 Please briefly describe the design expertise your proposed project manager brings to the team?	(1-15)	<u>15</u>
2 Please pick one person on your team, not the project manager, and tell the panel why their technical expertise is vital to your performance on the project?	(1-10)	<u>10</u>
3 The Engineering On-Call program is about engineering design and experience in obtaining permits. Please pick one discipline (ie Civil, Structural, Terminal Planning, etc.) and tell us about your design experience, areas of your expertise, and your experience in obtaining permits	(1-10)	<u>10</u>
4 In reference to the RFP which advises your firm not to propose if it cannot agree to the requirements, exactly as set forth in the sample agreement – Has your firm thoroughly reviewed the sample agreement, and are you	(1-10)	<u>10</u>
5 What percentage of time is your Project Manager committed to the Port	(1-10)	<u>10</u>
6 Does your firm have experience in making simplified technical presentations before public committees and/or	(1-10)	<u>10</u>
7 How does your company plan to prioritize work amongst subconsultants? (by specialty or rotation or just by whoever has time) something along those lines or did	(1-10)	<u>10</u>
8 How will your firm manage the workload to make sure the SBE's and VSBE's are participating fully during the entire term of the project	(1-15)	<u>15</u>
9 Please pick one sub-consultant and describe why they are vital to your team's ability to complete projects.	(1-10)	<u>10</u>
	total	100

Interview Evaluation of On-Call Engineering Services RFP
Sorted on Rank

Consultant	Rate Ave	Score Rater 1	Rank Rater 1	Score Rater 2	Rank Rater 2	Score Rater 3	Rank Rater 3	Score Rater 4	Rank Rater 4	Score Average	Rank Average
AECOM TECHNICAL SERVICES, INC	148	92	1	81	1	93	1	76	9	85.50	3.00
CH2M HILL	141	91	2	80	2	90	5	82	3	85.75	3.00
DEAN RYAN CONSULTANTS & DES SBE	140	89	5	78	5	93	1	85	1	86.25	3.00
URS CORPORATION	121	90	3	80	2	82	6	79	5	82.75	4.00
PSOMAS	133	90	3	78	5	92	4	78	6	84.50	4.50
VCA ENGINEERS, INC SBE	136	85	6	75	9	93	1	84	2	84.25	4.50
MOFFATT & NICHOL	121	85	6	79	4	81	7	80	4	81.25	5.25
TETRA TECH	135	82	9	76	8	74	10	77	7	77.25	8.50
TRANSYSTEMS CORPORATION	152	84	8	77	7	74	10	76	10	77.75	8.75
BERGERABAM INC	139	80	10	68	11	75	9	77	7	75.00	9.25
HDR ENGINEERING, INC	130	80	10	69	10	77	8	72	11	74.50	9.75

TRANSMITTAL NO. 8

Combined Evaluation Consultant	Rate Ave	Rater 1		Rater 2		Rater 3		Rater 4		Score Average		Rank	
		Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank
AECOM TECHNICAL SERVICES, INC	148	83.5	2.0	84.0	1.5	88.5	1.5	73.0	6.0	82.3	6.0	82.3	2.8
CH2M HILL	141	82.5	4.0	83.5	2.0	79.5	7.0	77.0	2.0	80.6	2.0	80.6	3.8
PSOMAS	133	82.0	4.5	83.0	3.0	91.5	2.5	71.5	6.0	82.0	6.0	82.0	4.0
MOFFATT & NICHOL	121	80.0	4.5	83.0	3.0	76.0	6.5	75.5	3.0	78.6	3.0	78.6	4.3
DEAN RYAN CONSULTANTS & DESIGN SBE	140	79.0	7.5	81.0	5.5	82.5	2.5	75.5	3.0	79.5	3.0	79.5	4.6
URS CORPORATION	121	82.5	3.0	79.5	5.5	76.0	6.5	74.0	4.5	78.0	4.5	78.0	4.9
Team 7	136	79.0	7.5	77.5	8.5	82.5	2.5	67.0	8.5	76.5	8.5	76.5	6.8
Team 8	135	80.5	5.0	79.0	7.5	71.5	9.5	70.5	7.0	75.4	7.0	75.4	7.3
Team 9	152	79.0	7.0	82.0	4.5	72.0	8.5	69.0	9.0	75.5	9.0	75.5	7.3
Team 10	139	79.5	5.5	73.5	10.0	72.0	10.0	69.0	8.0	73.5	8.0	73.5	8.4
Team 11	130	74.5	10.0	73.5	10.5	76.5	5.5	66.0	10.5	72.6	10.5	72.6	9.1

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
AECOM TECHNICAL SERVICES, INC.	OBE	Kosal Krishnan	Orange, CA
SUBCONSULTANTS			
BLUEwater Design Group	SBE	Timothy Bazley	San Pedro, CA
BOA Architecture	SBE	Edward Lok Ng	San Pedro, CA
Coast Surveying, Inc.	SBE, VSBE	Ruel Del Castillo	Tustin, CA
Collins Engineers, Inc.	OBE	James J. Blanusha	Auburn, CA
Dean Ryan Consultants and Designers, Inc.	SBE	William Stracker	Los Angeles, CA
Earth Mechanics, Inc.	SBE, VSBE	Kandiah (Arul) Arulmoli, PhD	Fountain Valley, CA
Furgo Consultants, Inc.	OBE	Lauren Doyle, PE	Los Angeles, CA
IDS Group, Inc.	SBE	Ramil Elhassan, PhD, SE	Irvine, CA
JMDiaz, Inc.	SBE	Juan M. Diaz, PE	Industry, CA
Kaplan Gehring McCarroll Lighting, Inc.	VSBE	Mike Gehring	El Segundo, CA
Kinnetic Laboratories, Inc.	SBE, VSBE	Patrick Kinney, PhD	Santa Cruz, CA
Liftech Consultants Inc.		Teresa Ferguson	Oakland, CA
Pacific Railway Enterprises, Inc.	SBE	Cathy Hirsch	Riverside, CA
Power Engineering Services, Inc.	SBE, VSBE	Barbara Effenberger	Brea, CA
Rothman Engineering, Inc.	SBE, VSBE	Jill Rothman	Los Angeles, CA
S&K Engineers	SBE, VSBE	Kevin Keyfauver	Monrovia, CA

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
CH2M HILL	OBE	Milind Desai, PE, SE	Los Angeles, CA
SUBCONSULTANTS			
Abratique & Associates, Inc.	SBE, VSBE	Micah Hershberg	Los Angeles, CA
Anil Verma Associates, Inc.	SBE	Anil Verma, AIA	Los Angeles, CA
Ben C. Gerwick, Inc.	SBE	Ted Trenkwalkder	Long Beach, CA
Cargo Velocity	SBE	Daniel J. Johnson, PE	Seattle, WA
Coast & Harbor Engineering, Inc.		Scott Fencal, PCE	San Francisco, CA
Dean Ryan Consultants and Designers, Inc.	SBE, OBE	William Stracker	Los Angeles, CA
EHDD Architecture		Charles Davis FAIA	San Francisco, CA
Furgo Consultants, Inc.		Lauren Doyle, PE	Los Angeles, CA
M. Arthur Gensler Jr. & Associates, Inc.		Peter Barsuk, AIA,	Santa Monica, CA
Integrated Engineering Management	SBE, VSBE	Behjat Zanjani	San Pedro, CA
Intrinsic Engineering, Inc.	VSBE	David Connors	Santa Ana, CA
J. L. Patterson & Associates, Inc.		Jacqueline Patterson	Orange, CA
Liftech Consultants Inc.		Teresa Ferguson	Oakland, CA
MBI Media		Mary McCormick	Covina, CA
MLA Green, Inc.	SBE	Anne M. Guillebeaux	Los Angeles, CA
Ninyo & Moore		Jalal Vakili	Irvine, CA
P2S Engineering, Inc.	OBE	Kevin Peterson	Long Beach, CA
Project Control Consulting, Inc.	VSBE	Merilee Hatfield-Myers	Mission Viejo, CA
RTM American Maritime Officer's Safety & Education Plan		Louis Ferrigno	Dania Beach, FL
Science Application International Corporation	OBE	Eric Battaglia	San Diego, CA
SDR Analytics & Maritime, PLLC	SBE	Sandra D. Rice	Melbourne, FL
TBA B. V., LLC	OBE	Jeroen kats	Tampa, FL

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
PSOMAS	OBE	Michael J. Crehan	Los Angeles, CA
SUBCONSULTANTS			
Advantec Consulting Engineers	SBE	Tracy Moriya	Diamond Bar, CA
DCA Civil Engineering Group	SBE, VSBE	Penelope Cornwall	Torrance, CA
Diaz Yourman & Associates	SBE	Allen M. Yourman	Santa Ana, CA
Farwest Corrosion Control, Co.	OBE	Jim Flake	Gardena, CA
Gotama Building Engineers, Inc.	SBE	Caecilia Gotama	Long Beach, CA
ISIS Consultants, LLC	SBE, VSBE	Robert E. Burkharot	Louisville, KY
Iteris, Inc.	OBE	Scott Carlson, PE	Santa Ana, CA
J. L. Patterson & Associates	SBE	Jacqueline L. Patterson	Orange, CA
Lynn Capouya, Inc.	SBE, VSBE	Lynn Capouya	Irvine, CA
MBC Applied Environmental Sciences	SBE	Shane Beck	Costa Mesa, CA
Mclean & Schultz	SBE	John Arias	Brea, CA
Miyamoto International, Inc.		Kenneth N. Wong	Los angeles, CA
Nuvis	SBE	Leslee A. Temple	Costa Mesa, CA
P2S Engineering Services	OBE	Mike Shen, PE	Long Beach, CA
Raw International, Inc.		Steven G. Lott	Los angeles, CA
Spec Services, Inc.	OBE	Bill Johnson	Fountain Valley, CA

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
MOFFAT & NICHOL	OBE	Dick Wittkop, PE	Long Beach, CA
SUBCONSULTANTS			
Earth Mechanics, Inc.	SBE	Kendiah (Arul) Arulmoli, PhD	Fountain Valley, CA
FPL and Associates, Inc.	SBE, VSBE	Fong-Ping Lee, PhD., PE	Irvine, CA
HPC Hamburger Port Consulting GmbH	OBE	Dr. Ing Felix Kasiske	Hamburg, Germany
IBE Consulting Engineers	SBE	Deirdre Loftus	Sherman Oaks, CA
Integrated Engineering Management	SBE, VSBE	Behjat Zanjani	San Pedro, CA
JCE Structural Engineering Group, Inc.	SBE	Juan Carlos Esquivel	Pasadena, CA
John M. Cruikshank Consultants, Inc.	SBE	John M. Cruikshank, PE	San Pedro, CA
Liftech Consultants, Inc.		Teresa M. Ferguson	Oakland, CA
NMG Geotechnical	SBE	Karlos Markouizos	Irvine, CA
NorthSouth GIS, LLC	SBE	Vikas Srivastava	Los Angeles, CA
Pacific Railway Enterprises, Inc.	SBE	Cathy L. Hirsch	Riverside, CA
Parsons Transportation Corp	OBE	Michael Leue	Irvine, CA
RailPros, Inc.	SBE	Tom Crowell	Los Angeles, CA
SAF-r-Dig Utility Surveys, Inc.	SBE	Lena L. McCracken	Palm Desert, CA
Scola & Associates	VSBE	Lisa Scola	Key Largo, FL
Specs Services	OBE	Bill Johns	Fountain Valley, CA
Stewart Architects	VSBE	Robert Stewart	Long Beach, CA
STV, Inc.	OBE	David Borger	Los Angeles, CA
Tate Snyder Kimsey Caldwell	SBE, VSBE	John Caldwell	Marina Del Rey, CA
Tatsumi and Partners, Inc.	SBE, VSBE	David Tatsumi	Irvine, CA
TBA B. V., LLC	OBE	Jeroen kats	Tampa, FL
WKE, Inc.	VSBE	Wei Koo, SE	Santa Ana, CA

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
DEAN RYAN CONSULTANTS & DESIGNERS, INC.	SBE, OBE	Wanda Martinez	Los Angeles, CA
SUBCONSULTANTS			
Caldwell Architects	SBE, VSBE	John Caldwell	Marina Del Rey, CA
Camp Dresser & McKee, Inc.	OBE	David B. Ebersold	Los Angeles, CA
Fehr & Peers	OBE	Netai Basu	Santa Monica, CA
Fugro Consultants, Inc.	OBE	Lauren Doyel, PE	Los Angeles, CA
HDR Engineering, Inc.	OBE	Tom Kim, PE	Los Angeles, CA
KDG Development & Construction Consulting	SBE	Matthew Wickersham	Los Angeles, CA
KPFF Consulting Engineers	OBE	Todd Graham, PE	Long Beach, CA
Lynn Capouya, Inc.	SBE, VSBE	Lynn Capouya	Irvine, CA
Pacific Railway Enterprises, Inc.	SBE	Cathy Hirsch	Riverside, CA
Parsons Brickerhoff	OBE	Jerry Givens	Los Angeles, CA
Psomas	OBE	Michael J. Crehan, PE	Los Angeles, CA
RTKL Associates, Inc.	OBE	Katherine J. Sprague	Los Angeles, CA
SafeProbe, Inc.	SBE	Mauro Poyaahn	Los Angeles, CA
Value Management Strategies, Inc.	SBE	Cheryl M. Kramer	Escondido, CA

PRIME CONSULTANT / SUBCONSULTANTS INFORMATION

PRIME CONSULTANT	SBE/OBE/VSBE	PM/CONTACT	LOCATION
URS CORPORATION	OBE	Randy Mason	Huntington Beach, CA
SUBCONSULTANTS			
Calvin R. Abe & Associates, Inc. (ah'bé)	SBE, VSBE	Calvin R. Abe	Culver City, CA
Cargo Velocity	SBE	Dan Johnson	Seattle, WA
Corpro Companies	OBE	Mike Prosperi	Santa Fe Springs, CA
CSI Services, Inc.	SBE	Patrick Sweeney	Santa Clarita, CA
Cummings Clarke	SBE	Phillip Mathur	Los Angeles, CA
Dean Ryan	VSBE	William Stracker	Los Angeles, CA
Earth Mechanics, Inc.	SBE	Kandiah (Arul) Arulmoli, PhD	Fountain Valley, CA
Gregg Drilling & Testing, Inc.	SBE	Patrick Keating, P. E.	Signal Hill, CA
Halcrow Inc.	OBE	Rob Andrews	Long Beach, CA
HNTB Corporation	OBE	Gene Gougdanos	Los Angeles, CA
IDC Consulting Engineers, Inc.	SBE, VSBE	Shafi Sharifan	Anaheim, CA
Kinnetic Laboratories, Inc.	SBE, VSBE	Patrick Kinney, PhD	Santa Cruz, CA
Liftech Consultants, Inc.		Teresa M. Ferguson	Oakland, CA
McClure Consulting Corporation	SBE, VSBE	Jeff McClure	San Clemente, CA
Nigel Nixon and Partners, Inc.	OBE	Mark Smallridge	Plano, TX
P2S Engineering Services	OBE	Kevin L. Paterson, P. E.	Long Beach, CA
Power Engineering Services, Inc.	SBE, VSBE	Barbara Effenberger	Brea, CA
RailPros, Inc.	SBE	Tom Crowell	Los Angeles, CA
Sanchez Kamps Associates Design	SBE	Joseph Stoddard	South Pasadena, CA
SECRA IRS Inc.	SBE, VSBE	Ken Basore	Oceanside, CA
Tait Environment Services, Inc.	SBE	Tim Ericson	Santa Ana, CA
TBA B.V., LLC	OBE	Jeroen Kats	Tampa, FL
Tech/Knowledge, Inc.	VSBE	Timothy V. Peters	Pasadena, CA
W.G. Zimmermann Engineering, Inc.	SBE, VSBE	Bill Zimmermann	Huntington Beach, CA