

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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www.dot.ca.gov/hq/esc/oe



*Serious Drought.
Help save water!*

December 29, 2014

04-SF,Ala-80-8.6/8.9, 0.0/1.2

04-013524

Project ID 0412000608

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO AND ALAMEDA COUNTY FROM 0.8 MILE EAST OF THE YERBA BUENA TUNNEL TO 0.8 MILE WEST OF THE TOLL PLAZA.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, February 4, 2015.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid book* and *Information Handout*.

Project plan sheets 25 and 31 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 142A through 142J are added and attached for addition to the project plans.

In the *Notice to Bidders*, the tenth paragraph is replaced as follows:

"Complete the work within 690 working days."

In the *Notice to Bidders*, the eleventh paragraph is replaced as follows:

"Complete Work Part 1 under section 8-1.10B within 260 working days."

In the *Notice to Bidders*, the thirteenth paragraph is replaced as follows:

"The estimated cost of the project is \$94,000,000."

In the *Special Provisions*, Section 1-1.01, is replaced as attached.

In the *Special Provisions*, Section 2-1.06B, is replaced as attached.

In the *Special Provisions*, Section 8-1.04C, is replaced as attached.

In the *Special Provisions*, Section 8-1.10B, is replaced as attached.

In the *Special Provisions*, Section 14-6.03A, is deleted.

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04-SF,Ala-80-8.6/8.9, 0.0/1.2
04-013524
Project ID 0412000608

In the Special Provisions, Section 14-6.03, "BIRD PROTECTION," is added as attached.

In the Special Provisions, Section 14-6.05, "CONTRACTOR-SUPPLIED BIOLOGIST," is added as attached.

In the Special Provisions, Section 15-2.03D, "Salvage Bridge Elements," is replaced as attached.

In the Special Provisions, Section 48-6, "ESTABLISH MARINE ACCESS," is replaced as attached.

The *Information Handout* "Technical Report 504/288 Contract, Nesting Bird Deterrence Measures dated September 2014", and "Bird Management Plan for Bridge Dismantling - 504/288 Contract dated September 2014" are added as attached.

In the *Bid* book, in the "Bid Item List," Item 3 is replaced.

In the *Bid* book, in the "Bid Item List," Items 41, 42, 43 are added.

In the *Bid* book, in the "Bid Item List," Item 40 is deleted.

To *Bid* book holders:

In the *Bid* book, pages 3, 4 and 4A of the "Bid Item List" are replaced as attached. The attached Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the *Bid* book.

Submit bids in the *Bid* book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-013524

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



BIJAN SARTIPI
District Director

Attachments

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
027660	TURBIDITY CONTROL	13
027661	DEWATERING AND NON-STORM WATER DISCHARGE SYSTEM	13
027662	VIBRATION MONITORING	15
027663	PHOTO SURVEY OF EXISTING FACILITIES	15
044681	SALVAGE BRIDGE ELEMENTS	15
027664	ROADWAY EXCAVATION (TYPE H)	14, 19
044682	ESTABLISH MARINE ACCESS	48
028241	DOCUMENT MANAGEMENT SYSTEM	5
028242	SALVAGE BRIDGE ELEMENTS (GROUP B)	15
022708	BIRD PROTECTION	14

Add to section 2-1.06B:

The Department makes the following supplemental project information available:

Information Handout

1. Structure Information Handout
 - 1.1. SFOBB 504' & 288' Spans Inspection Reports
 - 1.2. SFOBB East Span Cantilever Construction Sequence
 - 1.3. SFOBB East Span Design Specifications – Superstructure Circa 1933
 - 1.4. Existing Bridge Modification Contract 4011 Resident Engineers Report on Deck Paving –East Bay July 19 1963 (Testing Reports and Contract Specifications)
 - 1.5. Existing Bridge Modification Contract 4030 Resident Engineers Report on Steel Work – East Bay September 18 1963 (Testing Reports and Contract Specifications)
 - 1.6. Original Bridge Contract 7 Superstructure East Bay Crossing Final Report March 24 1937 (Material Specifications and Testing Reports)
 - 1.7. Original Bridge Contract 7 Superstructure East Bay Crossing Specifications March 8 1933 (Contract Specifications and Cantilever Erection Procedure)
 - 1.8. Original Bridge Tests of Heavy Riveted Joints – Second Progress Report (1936)
 - 1.9. Original Bridge Tests of Heavy Riveted Joints – Special Report on Manganese Steel Specimens (1936)
 - 1.10. Original Bridge Tests on Riveted Tension Members and Their Connections (1934)
 - 1.11. SFOBB East Span Floor System Original Design Calculations (1933)
 - 1.12. SFOBB East Span Original Construction Photographs from Bancroft Library
 - 1.13. SFOBB 504' & 288' Spans Construction Photographs
 - 1.14. Original Bridge Contract 7 Superstructure East Bay Crossing Shop Drawings
 - 1.15. Partial BrIM model for the 504' & 288' Spans
2. Geotechnical Information Handout
 - 2.1. Pile Installation Demonstration Project (PIDP) Geotechnical Report: Main Text and Appendices
 - 2.2. Ground Motion Report: Main Text and Appendices
 - 2.3. Final Marine Geophysical Survey Report:
Volume-1, Main Text and Appendices
Volume-2, Maps
 - 2.4. Final Marine Geotechnical Site Characterization Report:
Volume-1, Main Text and Illustrations
Volume-2A through Volume-2H
 - 2.5. Phase I Subcontractor Reports - Preliminary Geotechnical Site Characterization
Volume-1 through Volume-4
 - 2.6. Phase-II Subcontractor Reports - Final Geotechnical Site Characterization
Volume-1 through Volume-3
 - 2.7. Analysis and Design Procedures for Pile Foundations Supporting Temporary Towers Skyway Structures: Main Text and Appendices dated March 2001
 - 2.8. Revised Final Oakland Shore Approach Geotechnical Site Characterization Report, dated March 2001:
Volumes 1, 2A, 2B, 3, and 4
 - 2.9. 1920 Geology Reports
 - 2.10. 1930 Boring Logs for Original Bay Bridge
 - 2.11. Final Geotechnical Foundation Report for Oakland Shore Approach Structures
 - 2.12. Caltrans Bathymetric Survey Report No. 23.00007024 R1 (2013)

3. District Information Handout
 - 3.1. Permits, Licenses, Letters and Agreements
 - 3.1.1. California Department of Fish and Game (CDFG) Incidental Take Permit No. 2081-2001-021-03, Issued November 19, 2001
 - 3.1.2. CDFG Incidental Take Permit No. 2081-2001-021-03 Minor Amendment #1, Issued October 14, 2009
 - 3.1.3. CDFG Incidental Take Permit No. 2081-2001-021-03 Major Amendment #2, Issued February 23, 2012
 - 3.1.4. CDFG Incidental Take Permit No. 2081-2001-021-03 Minor Amendment #3, Issued September 6, 2012
 - 3.1.5. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S, Issued December 04, 2001
 - 3.1.6. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued April 2, 2002
 - 3.1.7. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued November 12, 2002
 - 3.1.8. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued April 11, 2005
 - 3.1.9. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued August 15, 2005
 - 3.1.10. U.S. Army Corps of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued September 23, 2005
 - 3.1.11. U.S. Army Corp of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued May 20, 2008
 - 3.1.12. U.S. Army Corp of Engineers (ACOE) Permit No. 023013S Time Extension, Issued November 16, 2011
 - 3.1.13. U.S. Army Corp of Engineers (ACOE) Permit No. 023013S Letter of Modification, Issued July 6, 2012
 - 3.1.14. San Francisco Bay Conservation and Development Commission (BCDC) Permit No. 2001.008.34, Issued November 20, 2001, Last Amended January 23, 2014 Reflects Amendments 1-34
 - 3.1.15. National Marine Fisheries Service (NMFS) Biological Opinion and Incidental Take Statement, Issued October 30, 2001
 - 3.1.16. NMFS Supplemental Biological Opinion and Conference Opinion, Issued April 10, 2009
 - 3.1.17. NMFS Supplemental Biological Opinion and Conference Opinion, Issued August 21, 2009
 - 3.1.18. NMFS Supplemental Biological Opinion and Conference Opinion, Issued February 6, 2012
 - 3.1.19. NMFS Incidental Harassment Authorization, Issued December 18, 2013
 - 3.1.20. U.S. Fish and Wildlife Service (USFWS) Biological Opinion, Issued October 29, 2001
 - 3.1.21. U.S. Coast Guard (USCG) New Bridge Permit 3-01-11, Issued December 11, 2001
 - 3.1.22. U.S. Coast Guard (USCG) New Bridge Permit Amendment 3a-01-11, Issued November 18, 2011
 - 3.1.23. California Regional Water Quality Control Board Order 01-120, Issued October 17, 2001
 - 3.1.24. California Regional Water Quality Control Board Order R2-2002-0011, Issued January 23, 2002

For the latest versions of environmental permits, go to:
www.biomitigation.org

- 3.2. San Francisco-Oakland Bay Bridge East Span Underwater Debris Diagram, dated May 2001
- 3.3. SFOBB East Span Survey Information, Control Diagram dated December 30, 2002
- 3.4. USCG Private Aid to Navigation Sample Application Form
- 3.5. Geotechnical & Material Report for YBI
- 3.6. Ground Penetration Report No. 6488-01, GEO Vision, November 2006
- 3.7. Historical Maps (1917, 1932, 1933)

- 3.8. Construction Vibration Monitoring Field Data Form
- 3.9. Water Quality Information Handout (Contract No. 04-01352) dated December 2012
- 3-10. Correspondence with United States Custom Service regarding Jones Act and use of crane/barge, 2002 and 2005
- 3.11. Archaeological Survey Reports
 - 3.11.1. Phase 1 Archaeological Survey Report- Maritime Archaeology, September 1999
 - 3.11.2. Addendum to Archaeological Survey Report-Maritime Archeology, December 6, 1999
 - 3.11.3. Addendum to Archaeological Survey Report-Maritime Archeology, March 2000
 - 3.11.4. Addendum to Archaeological Survey Report-Maritime Archeology, August 17, 2000
- 3.12. Asbestos Survey Report, June 2014
- 3.13. Lead concentration data for the roadway asphalt by Advanced Technology Laboratories dated April 30, 2014
- 3.14. Air Dispersion Modeling and Risk Assessment Summary Report for SFOBB 504/288 Spans Demolition
- 3.15. Air Dispersion Modeling and Risk Assessment Summary Report for SFOBB Cantilever Truss Demolition
- 3.16. Air Quality Monitoring Program Summary Report SFOBB Cantilever Truss Demolition (November 2013 through April 2014)
- 3.17. Steel Beam Test-Cut Simulations Air Monitoring Results for SFOBB Oakland Touchdown Demolition
- 3.18. Bare Steel Risk Assessment – SFOBB Cantilever Truss Demolition Project
- 3.19. Structure Type Selection and Seismic Retrofit Strategy Report (Wharf Condition Report), January 2014
- 3.20. Technical Memorandum - PCB Risk Evaluation, Old East Span Deconstruction by AMEC dated October 17, 2014.
- 3.21. Technical Report - 504/288 Contract, Nesting Bird Deterrence Measures dated September 2014
- 3.22. Bird Management Plan for Bridge Dismantling - 504/288 Contract dated September 2014

Information Available For Inspection

Items available for inspection, upon written request, at the office of the Duty Senior at the District 4 Office, 11 Grand Avenue, Oakland, CA 94612, email, D4.Construction.Duty.Senior@dot.ca.gov, telephone (510) 286-5209 are as follows:

- 1. Final Environmental Impact Statement / California Environmental Quality Act (CEQA) Statutory Exemption and Record of Decision
- 2. NPDES General Permit No. CAG912002 from SFRWQCB
- 3. Caltrans letters to the Dredged Material Management Office with draft disposal plan
- 4. As-built plans of the existing San Francisco-Oakland Bay Bridge East Span (Bridge No. 33-0025)
- 5. As-built plans of Interim Seismic Retrofit-East Bay Cantilever Truss (Contract No. 04-043004)
- 6. As-built plans of Cantilever Structure-Lower Chord Damage Repair (Contract No. 04-035104)
- 7. Site Investigation Report
 - 7.1. San Francisco-Oakland Bay Bridge Gateway Project, Oakland, CA, Geocon, May 1999
 - 7.2. The Oakland Mole San Francisco-Oakland Bay Bridge East Span Seismic Safety Project, Alameda County, CA, Geocon, October 2001
 - 7.3. Task Order Number 04-012041-UB, Contract Number 43A0078, Oakland Mole, Alameda County, CA, PSI, June 25, 2002
 - 7.4. SFOBB Oakland Touchdown East Span Seismic Safety Project, Oakland, CA, Geocon, September 2005
 - 7.5. SFOBB Oakland Touchdown East Span Seismic Safety Project, Oakland, CA, Geocon, June 2006
 - 7.6. San Francisco-Oakland Bay Bridge East Span Seismic Safety Project, Oakland Touchdown 2, Oakland, CA, Geocon, February 2010
 - 7.7. Site Investigation Report, SFOBB East Span Seismic Safety Project, Yerba Buena Island, Geocon, June 2001
 - 7.8. Supplemental Site Investigation Report, Yerba Buena Island Duct Bank, Geocon, March 2007
- 8. Additional As-built plans of the existing San Francisco-Oakland Bay Bridge East Span (Bridge No. 33-0025)

Replace "Reserved" in section 8-1.04C with:

Section 8-1.04B does not apply.

Start job site activities within 45 days after receiving notice that the Contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department.

Do not start job site activities until the Department authorizes or accepts your submittal for:

1. Contractor-supplied biologist
2. CPM baseline schedule
3. WPCP or SWPPP, whichever applies
4. Notification of DRA or DRB nominee and disclosure statement

You may enter the job site only to measure controlling field dimensions and locate utilities.

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

1. *Notice of Materials To Be Used* form.

You may start job site activities before the 45th day after Contract approval if you:

1. Obtain specified authorization or acceptance for each submittal before the 45th day
2. Receive authorization to start

Submit a notice 72 hours before starting job site activities. If the project has more than 1 location of work, submit a separate notice for each location.

Add to section 8-1.10B:

Liquidated damages for not completing the work parts and vacating the areas within the number of working days are shown in the table:

Work Parts No.	Removal Limits	Working days	Liquidated Damages
1	Pier E4 to Pier E6 (excluding Pier E6 removal)	260	\$5,000 per day \$150,000 Maximum
2	Pier E6 to Pier E13 (excluding Pier E13 removal)	200 After Work Part No.1 Completion	\$5,000 per day \$150,000 Maximum

Replace section 14-6.03 with:

14-6.03 BIRD PROTECTION

14-6.03A General

14-6.03A(1) Summary

Section 14-6.03 includes specifications for bird protection. Bird protection includes installing bird deterrents on bridges to prevent nesting of regulated species that could be harmed during dismantling activities.

Protect migratory and nongame birds, their occupied nests, and their eggs.

The Department anticipates nesting or attempted nesting from February 1 to August 31.

The federal Migratory Bird Treaty Act, 16 USC § 703–711, and 50 CFR Pt 10 and Fish & Game Code §§ 3503, 3511, 3513, and 3800 protect migratory and nongame birds, their occupied nests, and their eggs.

The federal Endangered Species Act of 1973, 16 USC § 1531 and § 1543, and the California Endangered Species Act, Fish & Game Code §§ 2050–2115.5, prohibit the take of listed species and protect occupied and unoccupied nests of threatened and endangered bird species.

The Bald and Golden Eagle Protection Act, 16 USC § 668, prohibits the destruction of bald and golden eagles and their occupied and unoccupied nests.

If migratory or nongame bird nests are discovered that may be adversely affected by construction activities or an injured or killed bird is found, immediately:

1. Stop all work within a 100-foot radius of the discovery except as shown in the following table:

Radius Exceptions

Species	Work stoppage radius (feet)
Raptors	250
Nonraptors	50

2. Notify the Engineer

The Department investigates the discovery. Do not resume work within the specified radius of the discovery until authorized.

14-6.03A(2) Submittals

Submit a schedule of values for:

1. Each type of bird deterrent to be installed on the bridge
2. Each type of bird deterrent to be installed on temporary structures
3. Maintenance of the bird deterrents

Submit a bird deterrent installation plan within 90 days of Contract approval. The plan must include:

1. Limits of the bridge section that requires bird deterrents
2. Details and description of each type of deterrent
3. Shop drawings for the suspended scaffolding system. Include methods and details for keeping the suspended scaffolding system stable during expected wind conditions at the job site.
4. Method for sealing the openings and gaps in the suspended scaffold decking to ensure safe access for personnel and to prevent bird access through the decking
5. Description of facilities for providing Department employees access to the suspended scaffolding decking
6. Safety inspection plans and schedule of inspections for the suspended scaffolding system
7. Method and sequence for installing the netting and making adjustments to block bird access to the underside of the bridge during dismantling work

14-6.03A(3) Quality Control and Assurance

Not Used

14-6.03B Materials

14-6.03B(1) Bird Deterrents

14-6.03B(1)(a) General

Bird deterrents must completely enclose the underside of the bridge demolition areas during the bird nesting season.

14-6.03B(1)(b) Suspended Scaffolding System

The suspended scaffolding system must be one of the following or equal systems:

Suspended scaffolding system	Supplier
QuickDeck	Safway Services, LLC N19 W24200 Riverwood Drive Waukesha, WI 53188 Toll free: (800) 558-4772 Tel: (262) 523-6500 https://www.safway.com
SafeSpan	SafeSpan 252 Fillmore Ave Tonawanda, NY 14150 Tel:877-997-SPAN http://www.safespan.com

The scaffolding system must:

1. Extend to the exterior face of the truss
2. Have decking made of plywood, steel, or aluminum
3. Provide easy access to the underside of the bridge for personnel to monitor the bird deterrence measures
4. Have a minimum live load rating of 25 psf and be live load rated for personnel use. The live load rating, including the maximum number of personnel allowed on the scaffolding, must be posted on the scaffolding.
5. Remain stable under wind load conditions expected at the job site.

14-6.03B(1)(c) Bird Spikes

A bird spike must be a stainless steel wire spike with a polycarbonate or stainless steel base. The spike must be from 4 to 8 inches long.

14-6.03B(1)(d) Netting

Netting must be high-density, knitted, polyethylene mesh. The density of the weave must be 50-70 percent shading. The netting must be flame retardant and UV treated.

14-6.03B(1)(e) Bird Wire System

The bird wire system must:

1. Be made of monofilament stainless steel wire coated with nylon or manufactured from non-corrosive metal or equivalent
2. Have a wire thickness of 0.50 to 0.75 mm
3. Include non-corrosive metal posts at 3 inch and 5 inch heights that can be attached by bracket, clamp or bolted to steel bridge members
4. Have 316 gauge non-corrosive metal springs
5. Have non-corrosive metal end crimps and ferrules

14-6.03B(1)(f) Slope Panels and Welded Hardware Cloth

A slope panel must be metal, wood, or polycarbonate. The panel must be at least 6 inches high and 6 inches wide. The horizontal support surface must be at a 45 degree angle to each leg of the panel. The panel may be glued, bolted, or clamped to the support surface.

The ends of the slope panel must be capped to prevent bird access.

Welded hardware cloth must be galvanized steel with at least 19-gauge wire and no more than 0.25-inch mesh.

14-6.03C Construction

14-6.03C(1) General

Install bird deterrents during the nonnesting season from September 1 to January 31.

Install bird deterrents on the length of bridge to be removed during the following nesting season but not less than 1,560 feet. If the remaining length of bridge to be removed is less than 1,560 feet, install deterrents on the remaining part of the bridge. Locations of deterrents to be installed are as shown. Clean bird waste or other debris from the contact surfaces of bridge members before installing deterrents as required for secure deterrent installation.

You may remove access platforms on the portion of bridge to be removed during the nesting season before the beginning of the season. If platforms are not removed, install bird spikes on the platforms.

During bridge removal activities, no more than 50 feet of the underside of the bridge measured from the removal end may be exposed to bird access.

Install bird deterrents on temporary structures as specified in the Bird Protection Plan and Bird Deterrence Plan.

Maintain and repair bird deterrents to keep them effective. Undamaged deterrents may be reused for subsequent installations.

Upon completion of the work, bird deterrents will become your property and you must remove them from the job site.

14-6.03C(2) Suspended Scaffolding System

Install the suspended scaffolding system under the manufacturer's instructions and without holes or gaps that allow birds access through the decking.

Provide safe access for Department employees from the bottom of the bridge deck to the scaffolding decking.

14-6.03C(3) Bird Spikes

Install bird spike strips under the manufacturer's instructions. Secure the strips to bridge members to prevent movement of the spikes. Install the strips at a maximum spacing of 2 inches and at a density such that no more than 2 square inches of surface area is exposed.

14-6.03C(4) Netting

Netting installed on the ends and sides of the suspended scaffolding system must block bird access through the exposed area between the scaffold decking and the bridge deck. Move the netting as needed to maintain complete enclosure during the progress of demolition work.

You may tie, bolt, or clamp the netting.

Wrap netting around bridge members with cable ties, bungee ties, or tie wire to secure the netting and block bird access. If used to seal openings, clamp the netting to bridge members or use an equivalent method to secure the netting.

14-6.03C(5) Bird Wire System

Clamp or bolt the bird wire system to the bridge members and install them under the manufacturer's instructions.

Run wire lines parallel to each other and space no more than 3 inches apart.

Maintain wire lines at a consistent height between mounting posts.

Ensure that the adjacent wire lines are not of the same height.

Ensure that wire lengths between connecting posts do not exceed 10 feet or is less than 5 feet.

Securely attach terminal ends of each wire to a spring that is securely attached to a mounting post on the spring's opposite end.

14-6.03C(6) Slope Panels and Welded Hardware Cloth

Install slope panels without gaps and no more than 2 inches from the edge of the support member.

Install welded wire mesh using adhesive, clamps, or screws.

14-6.03C(7) Bird Hazing

Provide 3 full-time personnel to haze birds and remove nest starts during the nesting season. The Contractor-supplied biologist must train and supervise the personnel.

Perform bird hazing during daylight hours a minimum of 6 days in a 7-day period, including 1 weekend day.

14-6.03D Payment

Not Used

Replace section 14-6.05 with:

14-6.05 CONTRACTOR-SUPPLIED BIOLOGIST

14-6.05A General

14-6.05A(1) Summary

Section 14-6.05 includes specifications for providing 2 full-time Contractor-supplied biologists to:

1. Prepare and implement bird protection plan (BPP) and bird deterrence plan (BDP)
2. Monitor, protect, and prevent nesting of regulated bird species, including those listed in section 14-6.03A, that may be harmed during construction
3. Prepare reports

14-6.05A(2) Submittals

14-6.05A(2)(a) Qualifications

Within 7 days after Contract approval, submit each biologist's name, resume, and statement of qualifications. Allow 10 days for review. If the submittal is incomplete, the Engineer will provide comments. Within 7 days after receiving the Engineer's comments, update and resubmit statement of qualifications. Do not start construction activities until the Contractor-supplied biologists are authorized.

14-6.05A(2)(b) Bird Protection Plan and Bird Deterrence Plan

Within 60 days after Contract approval, submit 2 copies of your BPP and BDP. Allow 15 days for review. If the submittal is incomplete, the Engineer will provide comments. Within 15 days after receiving the Engineer's comments, update and resubmit 2 copies of BPP and BDP for authorization.

Update BPP and BDP annually. Submit 2 copies of each plan by December 1. Allow 15 days for review. If the submittal is incomplete, the Engineer will provide comments. Within 15 days after receiving the Engineer's comments, update and resubmit 2 copies of the BPP and BDP for final authorization.

Your authorized biologist(s) must prepare and sign the BPP and BDP.

The BPP must comply with the requirements of Bird Management Plan for Bridge Dismantling – 504/288 Contract provided in the *Information Handout*, and include:

1. San Francisco-Oakland Bay Bridge (SFOBB) Project agency approvals, applicable regulations, and environmental documentation for protection of birds
2. List of bird species, types of nesting habitats expected at the job site, and locations of historic nesting sites at the job site
3. Nesting bird impact avoidance strategies, including seasonal avoidance, monitoring, deterrence measures, and protective radii for regulated bird species encounters
4. Nesting bird surveys, monitoring, and reporting schedule
5. Nesting bird surveys, monitoring, and reporting duties
6. Response plan for instances where occupied nests are encountered

The BDP must comply with section 14-6.03, and include:

1. Projected work sequence, dismantling schedule for duration of Contract, and description of the job site.
2. Bird protection and deterrence measures for regulated bird species likely to occur within the job site. Measures must include the removal of historic nests, exclusionary deterrents, nest-start removal, and hazing methods and strategies.
3. Training plan for the bird hazing and nest-start-removal personnel. The training plan must describe hazing activities to be employed and the methods and procedures to be used for removal of nest starts
4. Locations of bird protection and deterrence measures to be implemented throughout the duration of the Contract.
5. Schedule for the installation of bird protection and deterrence measures.
6. Justification for each instance where protection measures and an implementation plan are not necessary for a regulated bird species.
7. Means and methods to apply and secure deterrence measures to bridge members.
8. Means, methods, and containment plans for cleaning members in preparation of deterrence measure application.
9. Means and methods to establish safe access for the installation, monitoring, and maintenance of bird protection and deterrence measures.
10. Bird Protection and deterrence measure monitoring and reporting schedule.
11. Bird Protection and deterrence measure monitoring and reporting duties.
12. Schedule for maintaining bird protection and deterrence measures.

14-6.05A(2)(c) Pre-Construction Survey Report

Submit a pre-construction survey report within 7 days before starting construction activities.

14-6.05A(2)(d) Initial Monitoring Report

Not Used

14-6.05A(2)(e) Weekly Monitoring Report

Submit a monitoring report every 7 days once construction starts.

14-6.05A(2)(f) Incident Report

Report all incidents involving take or nesting birds occurring within the project area. Submit an incident report within 24 hours of the incident.

14-6.05A(2)(g) Annual Monitoring Report

Submit an annual monitoring report no later than October 1st during each year of construction.

14-6.05A(2)(h) Final Monitoring Report

Not Used

14-6.05A(3) Quality Control and Assurance

14-6.05A(3)(a) Qualifications

Biologists who perform specialized activities must have demonstrated field experience working with the species or performing the specialized task and must meet the following minimum requirements:

Specialized activity/species	Requirements
1. Preparing and administrating BPP and BDP	Bachelor's degree in Biology or related field with 2 years of relevant experience in bird monitoring, bird deterrent installation and reporting during construction activities
2. Monitoring, protecting, and preventing bird nesting	
3. Preparing reports on nesting bird surveys, monitoring, protection and deterrence measures	

14-6.05A(3)(b) Protocols

Use protocols required in PLACs and described in section 14-6.03. If protocols are not described, use as listed in the following table:

Regulated species name	Protocol
Raptors	Bird Management Plan for Bridge
Non-raptors	Dismantling – 504/288 Contract

14-6.05B Materials

Not Used

14-6.05C Construction

14-6.05C(1) General

Not Used

14-6.05C(2) Pre-construction Survey

Survey the work area for regulated bird species within 7 days before starting construction activities.

14-6.05C(3) Protective Radius

Not Used

14-6.05C(4) Monitoring Schedule

Monitor bird nesting and deterrence according to the following schedule:

Monitoring type	Schedule
Nesting bird monitoring and deterrence measure monitoring January 1st to August 31st	Monitor every day
Nesting bird monitoring and deterrence monitoring September 1st to December 31st	Monitor at least 1 day in a 7-day period.

14-6.05C(5) Monitoring Duties

The biologist must:

1. Monitor for regulated bird species within the project area
2. Assure that construction activities do not result in take of regulated bird species
3. Assure that construction activities comply with PLACs, section 14-6.03, and authorized BPP and BDP
4. Immediately notify the Engineer of occupied nests found within the project area and any take of regulated bird species
5. Prepare, submit, and sign notifications and reports
6. Monitor effectiveness of bird protection and deterrence measures

14-6.05C(6) Notification and Reporting

All reports must include:

1. Name(s) of the biologist(s) conducting biological activity
2. Date(s) and time(s) of survey, monitoring, or incident
3. Locations of survey, activities monitored, or incident
4. Description of activities surveyed or monitored
5. Representative photographs
6. Findings
7. Recommendations for actions to protect the regulated bird species
8. Locations showing types of installed bird protection and deterrence measures and recommendations for actions to supplement and maintain installed bird protection and deterrence measures
9. Name(s) of the biologist(s) who prepared the report
10. Signature(s) of the biologist(s) certifying the accuracy of the report

The pre-construction survey report must include detailed observations and locations where regulated bird species were observed.

The incident report must include:

1. Name(s) of person(s) who observed the incident
2. Description of any take incident
3. Bird species name and number taken
4. Details of required notifications with contact information
5. Corrective actions proposed or taken
6. Disposition of taken bird species

The weekly and annual monitoring report must include:

1. Start and end dates for period covered by report
2. An introduction that includes the project description
3. Background that includes all PLACS that apply to bird species expected in the SFOBB Project area
4. Project activities describing dismantling of the original east span of SFOBB
5. Identification of project impacts on the regulated bird species
6. Bird protection and deterrence measures implementation and maintenance details
7. Hazing activities showing locations where hazing is to occur
8. Incidental take details, including bird species name, number taken, people contacted, contact information, and disposition of taken species
9. An assessment of the effectiveness of bird protection and deterrence measures to mitigate project impacts for each expected and present bird species occurring within the project area
10. Recommendations to improve efficiency of protection and deterrence measures to mitigate impacts to regulated bird species
11. Support documents, including raw data sheets from period covered by report signed by biologist(s), and any supporting analysis
12. Signature(s) of biologist(s) certifying accuracy of report

14-6.05D Payment

Not Used

Replace section 15-2.03D with:

15-2.03D Salvage Bridge Elements

Section 15-2.03D includes specifications for removing, cleaning, preparing, marking, bundling, packaging, tagging, hauling, and stockpiling bridge elements as shown.

Salvaged materials remain the property of the Department, except as directed.

15-2.03D(2) Materials

15-2.03D(2)(a) General

Clean all earth, foreign materials, and concrete.

For bridge elements noted to be blast cleaned you must:

1. Blast clean all steel surfaces, including inside surfaces of rivet holes, handholes or other voids, to bare metal under SSPC-SP 6.
2. Remove sharp edges.
3. Trim all flame cut edges.
4. Comply with section 14-11.08.
5. Perform analysis for lead of at least 3 samples per bridge element. For box members, one sample must be taken from the interior surfaces of the member. Use United States Environmental Protection Agency SW-846 Test Method 6010B (Toxicity Characteristic Leaching Procedure-TCLP) for the analysis for lead. Analytical results must be reported in ppm. Prepare a report for all test results corresponding to each element tested. Present these results in tabulated format. The tabulated results must show the bridge element sample identification, corresponding analytical results, date of sample, date of analysis and name of sampler. All test results that are below the detection limit must be reported as non-detect. Provide in the report all chain of custody documents, laboratory reports and applicable certifications of the testing laboratory. Analysis must be performed on a standard 5-day turn-around time. The report must be provided no more than 5 days after completion of the laboratory analysis. Submit 2 copies of the test results to the Engineer before shipping elements to the storage locations. A final summary document must be submitted that includes a compilation of all reports. Submit 3 copies and one Compact Disk (CD) of the summary document to the Engineer within 10 days of completion of all sampling.

The Engineer will conduct a visual inspection of the cleaned members.

Bundle like components to facilitate handling, transporting and storage.

Tag bundles and show the quantity contained.

Tag all materials using Department-furnished tags, and show the following information as applicable:

1. Name or description of material
2. Dimensions
3. Quantity if more than one

Salvaged materials must be hauled directly to the specified storage locations and stockpiled. Each group of salvaged materials must be hauled to a separate storage location. If authorized, you may temporarily store salvaged materials at your location and later haul to and stockpile at the specified location. You must replace any materials that are lost before they are stockpiled at the specified location. The Department does not pay for replacement of lost materials.

15-2.03D(2)(b) Department Salvage Location

A minimum of 20 days before hauling salvaged material to the Department salvage storage location, notify:

1. Engineer
2. District coordinator at telephone number (415) 330-6509

For group A and Group C materials, the Department storage locations are within 25 miles of the job site. The Engineer will provide the address of the storage locations.

For Group B materials, provide storage within 25 miles of the jobsite for the duration of the contract. Salvaged materials will be removed from storage by others. Store like materials not more than two levels high. Lay out material so all elements are accessible to loading equipment. Provide layout map of stored materials to the Engineer after each material addition or removal. Provide Engineer access to the materials with a 24 hour notice. Inventory materials immediately after each partial removal and submit inventory report to the Engineer. Keep storage area secure.

Approximately 6 months before the estimated project completion date, remove and dispose of any leftover Group B salvaged materials remaining at the storage site, as directed. Removal of leftover materials is change order work.

15-2.03D(3) Construction

Provide dunnage for all bridge elements at each storage location to prevent damage to the bridge elements.

If you damage materials to be salvaged, repair, or replace them at your expense. Replacements for lost or damaged materials must be of the same kind and condition as the lost or damaged materials prior to removal. If authorized, the cost of replacement will be deducted instead of you providing a replacement.

15-2.03D(4) Payment

Group A and Group C salvaged materials are paid for as salvage bridge elements.

Group B salvaged materials are paid for as salvage bridge elements (Group B)

Payment for lead testing and preparing and submitting test reports as specified is included in the payment for the item involved.

Providing storage for Group B elements is included in the payment for salvage bridge elements (Group B).

Progress payments for salvage bridge elements are based on the authorized schedule of values. The Department does not adjust payments for these bid items.

Submit schedule of values for each group of bridge elements including for cleaning and storage.

**Replace section 48-6 with:
48-6 ESTABLISH MARINE ACCESS**

48-6.01 GENERAL

48-6.01A Summary

Section 48-6 includes specifications for furnishing, erecting, maintaining and removing barges, trestles and other facilities to establish marine access to the job site.

Comply with:

1. Section 2-1.06B including Information Handouts regarding PLACs
2. Section 5-1.20B
3. Section 14-6.02
4. Section 48-7
5. Section 48-8

Work in section 48-6 is separate from and in addition to the work specified in section 9-1.16D.

48-6.01B Submittals

Submit shop drawings of any access trestle and other temporary facilities. Shop drawings must include design calculations. All design calculations must be independently checked by another registered civil engineer. The shop drawing submittal must include certifications by the Contractor's engineer and the check engineer that the working drawings comply with all contract requirements and are adequate for the purpose intended.

Allow 30 days for the Engineer's review. The Engineer's approval will not be required for working drawings of temporary access facilities.

Within 45 days after contract approval, submit a work plan for marine pile installation for the Engineer's review. Include schedule and methods for pile installation in compliance with project permits issued by the United States Coast Guard (USCG) in section 2-1.06B. Allow 30 days for the Engineer's review.

48-6.02 MATERIALS

Use hollow steel shell piles less than or equal to 36 inches in diameter, or H-piles. H piles cross-sectional dimensions must be such that the pile can fit inside a 36 inch steel shell pile.

Use no more than 700 piles for temporary access facilities.

48-6.03 CONSTRUCTION

Use vibratory hammer to install -piles not less than 50 percent of the pile length.

No more than ten percent of the piles installed with a vibratory hammer may be proof tested with an impact hammer without the use of a marine pile driving energy attenuator

No more than two piles per day may be proof tested with an impact hammer. Proof testing of piles will be limited to less than 1 minute per pile, administering a maximum of twenty blows per pile.

All impact pile driving that is below the Mean Higher High Water line will be restricted to the period between June 1st and November 30th, except for pile proof testing.

Use marine pile driving energy attenuator during all impact driving of piles, except for pile proof testing.

Stop pile driving when underwater sound pressure levels exceed:

1. A 206 dB peak referenced to 1 micro Pascal at a distance greater than 33 feet from the pile being impact driven or proof tested.
2. A 187 dB cumulative sound exposure level referenced to 1 micro Pascal at a distance greater than 112 feet from the pile being impact driven.
3. A 187 dB cumulative sound exposure level referenced to 1 micro Pascal at a distance greater than 62 feet from the pile being proof tested.
4. A 150 dB root mean square referenced to 1 micro Pascal at a distance greater than 1305 feet from the pile being impact driven.
5. A 150 dB root mean square referenced to 1 micro Pascal at a distance greater than 13061 feet from the pile being proof tested.

No more than 20 piles may be installed per day with the use of an impact hammer.

Notify the Engineer at least 30 days before activities start below the Mean Higher High Water line. Provide the estimated start time and duration the day before the activities start.

48-6.03A Removal

Comply with the specifications under section 5-1.36 and section 5-1.20D.

48-6.04 PAYMENT

Progress payments for establish marine access will be based on the authorized schedule of values. The Department will not adjust payments for this bid item.

Submit schedule of values including the following:

1. Quantities required to complete the work
2. Materials and installation method, and a minimum initial mobilization for establish marine access
3. Marine pile driving energy attenuators, if required

BID ITEM LIST
04-013524

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
2	080050	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
3	090100	TIME-RELATED OVERHEAD (WDAY)	WDAY	690		
4	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
5	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
6	027660	TURBIDITY CONTROL	LS	LUMP SUM	LUMP SUM	
7	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
8	130310	RAIN EVENT ACTION PLAN	EA	81	500.00	40,500.00
9	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	50		
10	130330	STORM WATER ANNUAL REPORT	EA	2	2,000.00	4,000.00
11	027661	DEWATERING AND NON-STORM WATER DISCHARGE SYSTEM	LS	LUMP SUM	LUMP SUM	
12	130505	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	2		
13	130530	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	7,000		
14	130610	TEMPORARY CHECK DAM	LF	18		
15	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	520		
16	130640	TEMPORARY FIBER ROLL	LF	1,700		
17	130680	TEMPORARY SILT FENCE	LF	690		
18	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	2		
19	130720	TEMPORARY CONSTRUCTION ROADWAY	SQYD	26		
20	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST
04-013524

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	140003	ASBESTOS COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
22	141000	TEMPORARY FENCE (TYPE ESA)	LF	580		
23	141001	HEALTH AND SAFETY PLAN	LS	LUMP SUM	LUMP SUM	
24	141110	WORK AREA MONITORING (BRIDGE)	LS	LUMP SUM	LUMP SUM	
25	027662	VIBRATION MONITORING	LS	LUMP SUM	LUMP SUM	
26	027663	PHOTO SURVEY OF EXISTING FACILITIES	LS	LUMP SUM	LUMP SUM	
27	044681	SALVAGE BRIDGE ELEMENTS	LS	LUMP SUM	LUMP SUM	
28	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
29	027664	ROADWAY EXCAVATION (TYPE H)	CY	210		
30	198010	IMPORTED BORROW (CY)	CY	2,740		
31	210300	HYDROMULCH	SQFT	55,000		
32	210430	HYDROSEED	SQFT	55,000		
33	210600	COMPOST	SQFT	55,000		
34	210630	INCORPORATE MATERIALS	SQFT	55,000		
35	044682	ESTABLISH MARINE ACCESS	LS	LUMP SUM	LUMP SUM	
36	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	580		
37	BLANK					
38	028241	DOCUMENT MANAGEMENT SYSTEM	LS	LUMP SUM	LUMP SUM	
39	028242	SALVAGE BRIDGE ELEMENTS (GROUP B)	LS	LUMP SUM	LUMP SUM	
40	BLANK					

BID ITEM LIST
04-013524

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	022708	BIRD PROTECTION	LS	LUMP SUM	LUMP SUM	
42	146002	CONTRACTOR SUPPLIED BIOLOGIST (LS)	LS	LUMP SUM	LUMP SUM	
43	999991	MOBILIZATION (MARINE ACCESS) 10.0%	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$

4A
ADDED PER ADDENDUM NO. 3 DATED DECEMBER 29, 2014