

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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*Flex your power!
Be energy efficient!*

August 13, 2009

04-SF-101,1-9.2/9.8, 6.8/7.1
04-163734
ACBRNH-X075(027)N

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO ON ROUTE 101 FROM 0.3 MILE SOUTH TO 0.4 MILE NORTH OF ROUTE 101/1 SEPARATION AND ON ROUTE 1 FROM RUCKMAN AVENUE UNDERCROSSING TO ROUTE 101/1 SEPARATION.

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, September 9, 2009.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 11, 12, 46, 47, 56, 89, 100, 101, 102, 106, 107, 159, 165, 178, 184, 209, 210, 211, 215, 311, 353, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 514, 515, 516, 517, 518, 519, 529, and 555 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 42A, 446A, 446B, 446C, 446D, and 522A are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are added:

- "S30 Overhead Signs – Tubular, Instructions and Examples
- S31 Overhead Signs – Tubular, Single Post Type – Layout and Pipe Selection
- S32 Overhead Signs – Tubular, Two Post Type – Layout and Pipe Selection
- S33 Overhead Signs – Tubular, Structural Frame – Details No. 1
- S34 Overhead Signs – Tubular, Structural Frame – Details No. 2"

In the Notice to Bidders, the eleventh, twelfth and thirteenth paragraphs are revised as follows:

"Complete the work in 540 working days.

The estimated cost of the project is \$84,000,000.

A mandatory prebid meeting is scheduled for this project at the Golden Gate Club at the Presidio, 135 Fisher Loop, San Francisco, CA 94129 on August 26, 2009 at 3PM."

In the Special Provisions, Section 2-1.015, "MANDATORY PREBID MEETING," is added as attached.

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In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," is revised as attached.

In the Special Provisions, Section 5-1.09, "SUPPLEMENTAL PROJECT INFORMATION," the table entry for items "Available for inspection at the District Office" is revised as follows:

"

Available for inspection at the District Office	Environmental Soil Investigation - Doyle Drive Replacement Project, Contract 3 - EA 04-163731, Dated June 2009 Asbestos and Lead-Containing Paint Survey - Doyle Drive ACM and LCM Project - EA 04-163731, Dated May 2009 Conceptual Storm Water Pollution Prevention Plan
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"

In the Special Provisions, Section 5-1.10, "SPECIES PROTECTION," is revised as attached.

In the Special Provisions, Section 8-3.01, "WELDING," subsection "GENERAL" and subsection "WELDING QUALITY CONTROL," are revised as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraphs are added after the third paragraph.

"The areas for Contractor's use shall be vacated and restored to original conditions, as a condition for contract acceptance.

A Conceptual Storm Water Pollution Prevention Plan (SWPPP) has been prepared for this Contract as described in "Supplemental Project Information," of these special provisions. The Contractor shall adhere to the Conceptual SWPPP for all construction activities planned for the first 60 days after contract approval, or until the Contractor's SWPPP as required in "Water Pollution Control," of these special provisions is approved by the Engineer. The Contractor shall sign the "Initial SWPPP Certification," included within the Conceptual SWPPP and submit it to the Engineer. The Contractor's SWPPP shall supersede the Conceptual SWPPP upon Engineer's approval."

In the Special Provisions, Section 10-1.02, "CONTRACTOR SUPPLIED BIOLOGIST," is deleted.

In the Special Provisions, Section 10-1.03, "BIOLOGICAL MONITORING AREA (BMA)," is deleted.

In the Special Provisions, Section 10-1.04, "BIOLOGICAL RESOURCE INFORMATION PROGRAM," is deleted.

In the Special Provisions, Section 10-1.05, "WATER POLLUTION CONTROL," the following paragraph is added after the first paragraph.

"A Conceptual Storm Water Pollution Prevention Plan (SWPPP) has been prepared for this contract and is available as described in "Supplemental Project Information" of these special provisions."

In the Special Provisions, Section 10-1.05, "WATER POLLUTION CONTROL," subsection "STORM WATER POLLUTION PREVENTION PLAN," the sixth paragraph is revised as follows:

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"Within 5 days after contract approval, follow this process for SWPPP approval:

1. Submit 3 copies of the SWPPP and allow 5 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped
2. Change and resubmit the SWPPP within 5 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete SWPPP is resubmitted
3. When the Engineer approves the SWPPP, submit 4 copies of the approved SWPPP. After approval, the Engineer submits one copy of the approved SWPPP to the San Francisco Bay RWQCB for their review and comment
4. If the San Francisco Bay RWQCB provides comments to the SWPPP, amend the SWPPP within 5 days

If the Engineer fails to complete the review within the time allowed and if, in the opinion of the Engineer, completion of the work is delayed or interfered with because of the Engineer's or the RWQCB's review, the Department pays you for resulting losses, and grants an extension of time."

In the Special Provisions, Section 10-1.33, "TRAFFIC MANAGEMENT PLAN," is revised as attached.

In the Special Provisions, Section 10-1.34, "TEMPORARY ACCESS PLAN," subsection "SUBMITTALS," the first paragraph is revised as follows:

"Within 5 days after contract approval, the Contractor shall submit 3 copies of the TAP to the Engineer. The Contractor shall allow 5 days for the Engineer's review. If revisions are required, the Engineer will provide comments and specify the date that the review stopped. The Contractor shall revise and resubmit the TAP within 5 days of receipt of the Engineer's comments. The Engineer's review will resume when the complete TAP is resubmitted. When the Engineer approves the TAP, the Contractor shall submit 4 copies of the approved TAP to the Engineer. The Contractor may proceed with construction activities if the Engineer conditionally approves the TAP while minor revisions are being completed."

In the Special Provisions, Section 10-1.35, "SOUND CONTROL AND MONITORING REQUIREMENTS," subsection "GENERAL," sub-subsection "Definitions," the definitions "normal work hours" and "noise restricted work hours" are revised as follows:

"normal work hours: Monday through Friday 7:00 am to 7:00 pm and Saturdays 9:00 am to 6:00 pm.
noise restricted work hours: Monday through Thursday 7:00 pm to 7:00 am, Friday 7:00 pm to Saturday 9:00 am, Saturday 6:00 pm to Monday 7:00 am."

In the Special Provisions, Section 10-1.35, "SOUND CONTROL AND MONITORING REQUIREMENTS," subsection "GENERAL," sub-subsection "Project Noise Criteria," item number 9 is revised as follows:

"9. Work, during noise restricted work hours, performed on mainline Hwy 1, mainline Hwy 101 and their ramps as required by the lane closure charts (requires 2 weeks notice)."

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In the Special Provisions, Section 10-1.36, "COOPERATION," the first table is revised as follows:

"

Contract No.	Co-Rte-PM	Location	Type of Work
04-163714 04-163724	SF-101/1- VAR	Various Locations	Landscaping, Utilities
04-163744	SF-101/1- VAR		Reconstruct Freeway, Tunnels
Golden Gate Bridge District	SF-101-9.8	Golden Gate Bridge and Toll Plaza	Toll Plaza and Access Improvements
Presidio Trust Project	SF-101/1- VAR	Various Locations, see table below	Building, Utilities, Roadway work

"

In the Special Provisions, Section 10-1.37, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "GENERAL," sub-subsection "General Requirements," the second paragraph, item number 3 is revised as follows:

"3. The number of activities must be sufficient to assure adequate planning of the project, to permit monitoring and evaluation of progress, and to do an analysis of time impacts."

In the Special Provisions, Section 10-1.37, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "GENERAL," sub-subsection "Preconstruction Scheduling Conference," the first paragraph is revised as follows:

"Schedule a preconstruction scheduling conference with your project manager and the Engineer within 5 days after contract approval. The Engineer will conduct the meeting and review the requirements of this section with you."

In the Special Provisions, Section 10-1.37, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "GENERAL," sub-subsection "Updated Schedule," the third paragraph is deleted.

In the Special Provisions, Section 10-1.37, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "GENERAL," sub-subsection "Schedule Revisions" is added as attached.

In the Special Provisions, Section 10-1.38, "TIME RELATED OVERHEAD," the following paragraph is added after the twentieth paragraph.

"Full compensation for additional overhead costs involved in incentive and disincentive provisions to satisfy internal milestone or multiple calendar requirements shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.42, "MAINTAINING TRAFFIC," Charts No. 8, 9, 10, 11 and 12 are added as attached.

In the Special Provisions, Section 10-1.84, "ARCHITECTURAL TEXTURE AND ARCHITECTURAL TREATMENT," the third paragraph is revised as follows:

"Architectural treatment (2" thick) shown on the plans shall not be applied."

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In the Special Provisions, Section 10-1.89, "CLEAN AND PAINT SIGN STRUCTURES, STANDARDS, STEEL PEDESTALS AND POSTS," is added as attached.

In the Special Provisions, Section 10-1.105, "ISOLATION CASING," the first paragraph is revised as follows:

"Isolation casing shall consist of furnishing and installing corrugated steel structural plate pipe in conformance with the details shown on the plans. Isolation casings shall conform to the provisions in Section 67, "Structural Metal Plate Pipe," and Section 75-1.05, "Galvanizing," of the Standard Specifications and these special provisions."

In the Special Provisions, Section 10-1.105, "ISOLATION CASING," the second paragraph is deleted.

In the Special Provisions, Section 10-1.110, "CALIFORNIA ST-10 BRIDGE RAIL," the fifteenth paragraph is revised as follows:

"The contract price paid per linear foot for California ST-10 bridge rail of the types shown in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the railing, complete in place, including the reinforced concrete parapet, anchor blocks, California ST-10 barrier transition and preparing and painting, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Bid book, in the "Bid Item List," Items 3, 145, 146, and 151 are revised, Items 221, 223 and 224 are added and Items 27, 129 and 220 are deleted as attached.

To Bid book holders:

Replace pages 4, 5, 10, 11 and 14 of the "Bid Item List" in the Bid book with the attached revised pages 4, 5, 10, 11 and 14, and added page 14A of the Bid Item List. The revised 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.

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This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-163734

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,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

2.1-015 MANDATORY PREBID MEETING

The Department will conduct a mandatory prebid meeting for this contract. The purpose of the meeting is to provide small businesses the opportunity to meet and interact with prospective bidders and increase participation in the performance of contracts.

Prospective bidders must attend the mandatory prebid meeting. The bidder's representative must be a company officer, project superintendent, or project estimator. For a joint venture, one of the parties must attend the mandatory prebid meeting. The Department will not accept bids from bidders who do not attend the mandatory prebid meeting.

A sign-up sheet will be used to identify all prospective bidders including name and title of the company representative attending the mandatory prebid meeting. The Department may hold a single prebid meeting for more than one contract. Make sure you sign the sign-up sheet for the contract you intend to bid on. If bidding multiple contracts, sign each sign-up sheet for each contract you intend to bid on.

The successful bidder will be required to report small businesses hired to work on this contract as a result of the mandatory prebid meeting.

SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES

The 1st working day is the 10th day after contract approval.

For this project, the 72 hour written notice specified in Section 8-1.03 "Beginning of Work" is changed to 24 hours.

Do not start work at the job site, except for measuring controlling field dimensions and locating utilities, until the Engineer approves your submittal for:

1. Time-scaled logic diagram (Critical Path Method)
2. Traffic Management Plan (TMP)
3. Temporary Access Plans (TAP).

In addition to the above submittals, do not start work at the job site, except for measuring controlling field dimensions and locating utilities, until you submit:

1. Notice of Materials To Be Used.
2. Contingency plan for reopening closures to public traffic.
3. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
4. Written statement from the vendor that the order for structural steel has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.

You may start work at the job site before the 10th day after contract approval if:

1. You obtain required approval for each submittal before the 10th day
2. The Engineer authorizes it in writing

The Department grants a time extension if a delay is beyond your control and prevents you from starting work at the job site on the 1st working day.

Complete the work within 540 working days.

For this contract, a working day is defined as:

working day: Time measure unit for work progress. A working day is any day except:

1. Special event days as listed in the Special Event Days table in this special provision.
2. A day when you cannot perform work on the controlling activity for at least 50 percent of the day with at least 50 percent of the normal labor and equipment due to any of the following:
 - 2.1. The Engineer's direction to suspend the controlling activities for reasons unrelated to your performance
 - 2.2. An unanticipated event not caused by either party such as:
 - 2.2.1. Act of God (Pub Cont Code § 7105)
 - 2.2.2. Act of a public enemy
 - 2.2.3. Epidemic
 - 2.2.4. Fire
 - 2.2.5. Flood
 - 2.2.6. Governor-declared state of emergency
 - 2.2.7. Landslide
 - 2.2.8. Quarantine restriction
 - 2.3. An issue involving a third-party, including:
 - 2.3.1. Industry or area-wide labor strike
 - 2.3.2. Material shortage
 - 2.3.3. Freight embargo
 - 2.3.4. Jurisdictional requirement of a law enforcement agency
 - 2.3.5. Workforce labor dispute of a utility or non-highway facility owner resulting in a utility or non-highway facility reconstruction not described and not solely for the Contractor's convenience

Do not perform work in the Presidio on the same days when the following special events are held:

Special Event Days

Presidio Event	Date of Event
Special Olympic Polar Bear Run	4th Thursday in February
Emerald Nuts Across the Bay 12k	2nd Sunday in March
US Half Marathon – Spring Half	2nd Saturday in April
Girl Scout Golden Gate Bridging Ceremony	2nd Saturday in May
Annual Memorial Day Observance	Memorial Day
Anchorman Escape from Alcatraz Triathlon	1st or 2nd Sunday in June
Golden Gate Triathlon	3rd or 4th Sunday in June
July 4 th Observance	July 4 th
Avon 2 Day Walk	2nd Saturday and Sunday in July
San Francisco Marathon	Last Sunday in July
Aloha Festival Event	1st Saturday and Sunday in August
Film in the Fog	Last Saturday in September
Susan G. Komen 3-Day Breast Cancer Walk	1st Friday, Saturday and Sunday in October
Juvenile Diabetes Walk	1st Saturday in October
KNBR Bridge to Bridge Run	1st Sunday in October
Hold for Genentech	3rd Friday in October
Fleet Week/Blue Angels Performances	2nd or 3rd Saturday and Sunday in October
Seismic Challenge	3rd Saturday and Sunday in October
Nike Marathon	3rd Sunday in October
HDSA Walkathon	4th Saturday in October
Temp-Hold Mermaid	2nd Saturday in November
Rival 10 Run	2nd Saturday and Sunday in November
US Half Marathon	2nd or 3rd Sunday of November

INCENTIVES AND DISINCENTIVES

Incentive payments and disincentive deductions apply to the completion of the work specified in the Incentive / Disincentive table.

Comply with "Maintaining Traffic" and "Closure Requirements and Conditions" of these special provisions.

Incentive payments and disincentive deductions are independent of liquidated damages and damages specified in "Closure Requirements and Conditions" of these special provisions.

Complete the work specified within the time specified in the Incentive / Disincentive table starting on the day specified. If you complete the work within the specified time, you will receive the incentive shown for each day less than the time specified. If you do not complete the work within the specified time, the Department will deduct the disincentive shown for each day needed to complete the work.

Incentive / Disincentive

Work	Start of Work	Time of Completion (Working Days)	Incentive Payment per Day	Disincentive Deduction per Day
Phase 1	1 st working day	480	\$50,000	\$50,000

Phase 1 work is defined as the work necessary to complete the full width of all structures and roadways in their final configuration on Route 1 and 101, as shown on the plans, ready to be opened for public use without any further work that requires lane or shoulder closures.

Phase 2 work is defined as the remaining work to complete the contract.

Total incentive payment will not exceed \$3,000,000.

Total disincentive deduction will not exceed \$3,000,000.

5-1.10 SPECIES PROTECTION

GENERAL

Summary

This work includes protecting regulated species or their habitat.

This project is within or near habitat for regulated species:

Wrentit (non-migratory, non-game, nesting bird)
Roosting Bats

CONSTRUCTION

Protective Radius

Upon discovery of a regulated species, stop construction activities within a 100 foot radius of the discovery. Immediately notify the Engineer. Do not resume activities until receiving written notification from the Engineer.

MEASUREMENT AND PAYMENT

Full compensation for Species Protection is included in the various contract items of work and no additional compensation will be allowed.

8-3.01 WELDING

GENERAL

Unless otherwise noted in these special provisions, Section 8-3, Welding, applies to all welded materials associated with this project.

Flux cored welding electrodes conforming to the requirements of AWS A5.20 E6XT-4 or E7XT-4 shall not be used to perform welding for this project.

Wherever reference is made to the following AWS welding codes in the Standard Specifications, on the plans, or in these special provisions, the year of adoption for these codes shall be as listed:

AWS Code	Year of Adoption
D1.1	2008
D1.3	2008
D1.4	2005
D1.5	2008
D1.6	2007
D1.8	2009

Requirements of the AWS welding codes shall apply unless otherwise specified in the Standard Specifications, on the plans, or in these special provisions. Wherever the abbreviation AWS is used, it shall be equivalent to the abbreviations ANSI/AWS or AASHTO/AWS.

Inspection and approval of all joint preparations, assembly practices, joint fit-ups, welding techniques, and the performance of each welder, welding operator, and tack welder shall be documented by the QC Inspector on a daily basis for each day welding is performed. For each inspection, including fit-up, Welding Procedure Specification (WPS) verification, and final weld inspection, the QC Inspector shall confirm and document compliance with the requirements of the AWS or other specified code criteria and the requirements of these special provisions on all welded joints before welding, during welding, and after the completion of each weld.

The Engineer shall have the authority to verify the qualifications or certifications of any welder, QC Inspector, or NDT personnel to specified levels by retests or other means approved by the Engineer.

When joint weld details that are not prequalified to the details of Clause 3 of AWS D1.1 or to the details of Figure 2.4 or 2.5 of AWS D1.5 are proposed for use in the work, the joint details, their intended locations, and the proposed welding parameters and essential variables, shall be approved by the Engineer. The Contractor shall allow the Engineer 15 days to complete the review of the proposed joint detail locations. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

In addition to the requirements of AWS D1.1, welding procedure qualifications for work welded in conformance with the code shall conform to the following:

When a nonstandard weld joint is to be made using a combination of WPSs, a single test may be conducted combining the WPSs to be used in production, provided the essential variables, including weld bead placement, of each process are limited to those established in Table 4.5.

Upon approval of the proposed joint detail locations and qualification of the proposed joint details, welders and welding operators using these details shall perform a qualification test plate using the WPS variables and the joint detail to be used in production. The test plate shall have the maximum thickness to be used in production and a minimum length of 18 inches. The test plate shall be mechanically and radiographically tested. Mechanical and radiographic testing and acceptance criteria shall be as specified in the applicable AWS codes.

The Engineer will witness all qualification tests for WPSs that were not previously approved by the Department. Unless otherwise specified, an approved independent third party will witness the qualification tests for welders or welding operators. The independent third party shall be a current CWI and shall not be an employee of the contractor performing the welding.

In addition to the requirements specified in the applicable code, the period of effectiveness for a welder's or welding operator's qualification shall be a maximum of 3 years for the same weld process, welding position, and weld type. If welding will be performed without gas shielding, then qualification shall also be without gas shielding. Excluding welding of fracture critical members, a valid qualification at the beginning of work on a contract will be acceptable for the entire period of the contract, as long as the welder's or welding operator's work remains satisfactory. The Contractor shall allow the Engineer 15 days to review the qualifications and copy of the current certification of the independent third party. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The Contractor shall notify the Engineer 7 days prior to performing any procedure qualification tests. Witnessing of qualification tests by the Engineer shall not constitute approval of the intended joint locations, welding parameters, or essential variables. The Contractor shall notify the Engineer using the "Standard TL-38 Inspection Form" located at:

<http://www.dot.ca.gov/hq/esc/Translab/OSM/smbforms.htm>

Clause 6.14.6, "Personnel Qualification," of AWS D1.1, Section 7.8, "Personnel Qualification," of AWS D1.4, and Clause 6.1.3.4, "Personnel Qualification," of AWS D1.5 are replaced with the following:

Personnel performing nondestructive testing (NDT) shall be qualified and certified in conformance with the requirements of the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A and the Written Practice of the NDT firm. The Written Practice of the NDT firm shall meet or exceed the guidelines of the ASNT Recommended Practice No. SNT-TC-1A. Individuals who perform NDT, review the results, and prepare the written reports shall be either:

- A. Certified NDT Level II technicians, or;
- B. Level III technicians who hold a current ASNT Level III certificate in that discipline and are authorized and certified to perform the work of Level II technicians.

Clause 6.6.5, "Nonspecified NDT Other than Visual," of AWS D1.1, Section 7.6.5 of AWS D1.4 and Clause 6.6.5 of AWS D1.5 shall not apply.

For any welding, the Engineer may direct the Contractor to perform NDT that is in addition to the visual inspection or NDT specified in the AWS or other specified welding codes, in the Standard Specifications, or in these special provisions. Except as provided for in these special provisions, additional NDT required by the Engineer, and associated repair work, will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications. Prior to release of welded material by the Engineer, if testing by NDT methods other than those originally specified discloses an attempt to defraud or reveals a gross nonconformance, all costs associated with the repair of the deficient area, including NDT of the weld and of the repair, and any delays caused by the repair, shall be at the Contractor's expense. A gross nonconformance is defined as the sum of planar type rejectable indications in more than 20 percent of the tested length.

When less than 100 percent of NDT is specified for any weld, it is expected that the entire length of weld meet the specified acceptance-rejection criteria. Should any welding deficiencies be discovered by additional NDT directed or performed by the Engineer that utilizes the same NDT method as that originally specified, all costs associated with the repair of the deficient area, including NDT of the weld and of the weld repair, and any delays caused by the repair, shall be at the Contractor's expense.

Repair work to correct welding deficiencies discovered by visual inspection directed or performed by the Engineer, and any associated delays or expenses caused to the Contractor by performing these repairs, shall be at the Contractor's expense.

WELDING QUALITY CONTROL

Welding quality control shall conform to the requirements in the AWS or other specified welding codes, the Standard Specifications, and these special provisions.

Unless otherwise specified, welding quality control shall apply when any work is welded in conformance with the provisions in Section 49, "Piling," Section 52, "Reinforcement," or Section 55, "Steel Structures," of the Standard Specifications or structural steel for building work.

In addition, welding quality control shall apply when welding is performed for the following work:

- A. PTFE spherical bearings.
- B. Seismic joints.

The Contractor shall designate in writing a welding Quality Control Manager (QCM). The QCM shall be responsible directly to the Contractor for the quality of welding, including materials and workmanship, performed by the Contractor and subcontractors.

The QCM shall be the sole individual responsible to the Contractor for submitting, receiving, reviewing, and approving all correspondence, required submittals, and reports to and from the Engineer. The QCM shall be a registered professional engineer or shall be currently certified as a CWI.

Unless the QCM is hired by a subcontractor providing only QC services, the QCM shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project. The QCM may be an employee of the Contractor.

The QCM shall sign and furnish to the Engineer, a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for each item of work for which welding was performed. The certificate shall state that all of the materials and workmanship incorporated in the work, and all required tests and inspections of this work, have been performed in conformance with the details shown on the plans, the Standard Specifications, and these special provisions.

Welding inspection personnel or NDT firms to be used in the work shall not be employed or compensated by any subcontractor, or by other persons or entities hired by subcontractors, who will provide other services or materials for the project, except for the following condition:

- A. The work is welded in conformance with AWS D1.5 and is performed at a permanent fabrication or manufacturing facility that is certified under the AISC Quality Certification Program, Category CBR, Major Steel Bridges and Fracture Critical endorsement F, when applicable.

For welding performed at such facilities, the inspection personnel or NDT firms may be employed or compensated by the facility performing the welding provided the facility maintains a QC program that is independent from production.

Prior to submitting the Welding Quality Control Plan (WQCP) required herein, a prewelding meeting between the Engineer, the Contractor's QCM, and a representative from each entity performing welding or inspection for this project, shall be held to discuss the requirements for the WQCP.

Information regarding the contents, format, and organization of a WQCP, is available at the Transportation Laboratory and at:

<http://www.dot.ca.gov/hq/esc/Translab/OSM/smbresources.htm>

The Contractor shall submit to the Engineer, in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications, 2 copies of a separate WQCP for each subcontractor or supplier for each item of work for which welding is to be performed.

The Contractor shall allow the Engineer 15 days to review the WQCP submittal after a complete plan has been received. No welding shall be performed until the WQCP is approved in writing by the Engineer. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

An amended WQCP or any addendum to the approved WQCP shall be submitted to, and approved in writing by the Engineer, for proposed revisions to the approved WQCP. An amended WQCP or addendum will be required for revisions to the WQCP, including but not limited to a revised WPS; additional welders; changes in NDT firms, QC, or NDT personnel or procedures; or updated systems for tracking and identifying welds. The Engineer shall have 7 days to complete the review of the amended WQCP or addendum. Work affected by the proposed revisions shall not be performed until the amended WQCP or addendum has been approved. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

After final approval of the WQCP, amended WQCP, or addendum, the Contractor shall submit 7 copies to the Engineer of the approved documents. A copy of the Engineer approved document shall be available at each location where welding is to be performed.

All welding will require inspection by the Engineer. The Contractor shall request inspection at least 3 business days prior to the beginning of welding for locations within California and 5 business days for locations outside of California. The Contractor shall request inspection at:

<http://www.dot.ca.gov/hq/esc/Translab/OSM/smbforms.htm>

Continuous inspection shall be provided when any welding is being performed. Continuous inspection, as a minimum, shall include having a QC Inspector within such close proximity of all welders or welding operators so that inspections by the QC Inspector of each welding operation at each welding location does not lapse for a period exceeding 30 minutes.

A daily production log for welding shall be kept for each day that welding is performed. The log shall clearly indicate the locations of all welding. The log shall include the welders' names, amount of welding performed, any problems or deficiencies discovered, and any testing or repair work performed, at each location. The daily report from each QC Inspector shall also be included in the log.

The following items shall be included in a Welding Report that is to be submitted to the Engineer within 15 days following the performance of any welding:

- A. A daily production log.
- B. Reports of all visual weld inspections and NDT.
- C. Radiographs and radiographic reports, and other required NDT reports.
- D. A summary of welding and NDT activities that occurred during the reporting period.
- E. Reports of each application of heat straightening.
- F. A summarized log listing the rejected lengths of weld by welder, position, process, joint configuration, and piece number.
- G. Documentation that the Contractor has evaluated all radiographs and other nondestructive tests and corrected all rejectable deficiencies, and that all repaired welds have been reexamined using the required NDT and found acceptable.

The following information shall be clearly written on the outside of radiographic envelopes: name of the QCM, name of the nondestructive testing firm, name of the radiographer, date, contract number, complete part description, and all included weld numbers, report numbers, and station markers or views, as detailed in the WQCP. In addition, all interleaves shall have clearly written on them the part description and all included weld numbers and station markers or views, as detailed in the WQCP. A maximum of 2 pieces of film shall be used for each interleave.

Reports of all visual inspections and NDT shall be signed by the inspector or technician and submitted daily to the QCM for review and signature prior to submittal to the Engineer. Corresponding names shall be clearly printed or typewritten next to all signatures. Reports of all NDT, whether specified, additional, or informational, performed by the Contractor shall be submitted to the Engineer.

The Engineer will review the Welding Report to determine if the Contractor is in conformance with the WQCP. Except for field welded steel pipe piling, the Engineer shall be allowed 15 days to review the report and respond in writing after the complete Welding Report has been received. Prior to receiving notification from the Engineer of the Contractor's conformance with the WQCP, the Contractor may encase in concrete or cover welds for which the Welding Report has been submitted. However, should the Contractor elect to encase or cover those welds prior to receiving notification from the Engineer, it is expressly understood that the Contractor shall not be relieved of the responsibility for incorporating material in the work that conforms to the requirements of the plans and specifications. Material not conforming to these requirements will be subject to rejection. Should the Contractor elect to wait to encase or cover welds pending notification by the Engineer, and in the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

For field welded steel pipe piling, including bar reinforcement in the piling, the Contractor shall allow the Engineer 2 business days to review the Welding Report and respond in writing after the required items have been received. No field welded steel pipe piling shall be installed, and no reinforcement in the piling shall be encased in concrete until the Engineer has approved the above requirements in writing.

In addition to the requirements in AWS D1.1 and AWS D1.5, third-time excavations of welds or base metal to repair unacceptable discontinuities, regardless of NDT method, and all repairs of cracks require prior approval of the Engineer.

The Engineer shall be notified immediately in writing when welding problems, deficiencies, base metal repairs, or any other type of repairs not submitted in the WQCP are discovered, and also of the proposed repair procedures to correct them. For requests to perform third-time repairs or repairs of cracks, the Contractor shall include an engineering evaluation of the proposed repair. The engineering evaluation, at a minimum, shall address the following:

- A. What is causing each defect?
- B. Why the repair will not degrade the material properties?
- C. What steps are being taken to prevent similar defects from happening again?

The Contractor shall allow the Engineer 7 days to review these procedures. No remedial work shall begin until the repair procedures are approved in writing by the Engineer. In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Unless otherwise specified, Clauses 6.1.3 through 6.1.4.3 of AWS D1.1, Section 7.1.2 of AWS D1.4, and Clauses 6.1.1.2 through 6.1.3.3 of AWS D1.5 are replaced with the following:

The QC Inspector shall be the duly designated person who acts for and on behalf of the Contractor for inspection, testing, and quality related matters for all welding.

Quality Assurance (QA) is the prerogative of the Engineer. The QA Inspector is the duly designated person who acts for and on behalf of the Engineer.

The QC Inspector shall be responsible for quality control acceptance or rejection of materials and workmanship, and shall be currently certified as an AWS Certified Welding Inspector (CWI) in conformance with the requirements in AWS QC1, "Standard for AWS Certification of Welding Inspectors."

The QC Inspector may be assisted by an Assistant QC Inspector provided that this individual is currently certified as an AWS Certified Associate Welding Inspector (CAWI) in conformance with the requirements in AWS QC1, "Standard for AWS Certification of Welding Inspectors." The Assistant QC Inspector may perform inspection under the direct supervision of the QC Inspector provided the assistant is always within visible and audible range of the QC Inspector. The QC Inspector shall be responsible for signing all reports and for determining if welded materials conform to workmanship and acceptance criteria. The ratio of QC Assistants to QC Inspectors shall not exceed 5 to 1.

When the term "Inspector" is used without further qualification, it shall refer to the QC Inspector.

Clause 6.5.4 of AWS D1.5 is replaced with the following:

The QC Inspector shall inspect and approve each joint preparation, assembly practice, welding technique, joint fit-up, and the performance of each welder, welding operator, and tack welder to make certain that the applicable requirements of this code and the approved Welding Procedure Specification (WPS) are met. The QC Inspector shall examine the work to make certain that it meets the requirements of Clauses 3 and 6.26. The size and contour of all welds shall be measured using suitable gages. Visual inspection for cracks in welds and base metal, and for other discontinuities shall be aided by strong light, magnifiers, or such other devices as may be helpful. Acceptance criteria different from those specified in this code may be used when approved by the Engineer.

In addition to the requirements of AWS D1.5, Clause 5.12 or 5.13, welding procedures qualification for work welded in conformance with that code shall conform to the following requirements:

- A. Unless considered prequalified, fillet welds shall be qualified in each position. The fillet weld soundness test shall be conducted using the essential variables of the WPS as established by the Procedure Qualification Record (PQR).
- B. For qualification of joints that do not conform to Figures 2.4 and 2.5 of AWS D1.5, a minimum of two WPS qualification tests are required. The tests shall be conducted using both Figure 5.1 and Figure 5.3. The test conforming to Figure 5.1 shall be conducted in conformance with AWS D1.5, Clause 5.12 or 5.13. The test conforming to Figure 5.3 shall be conducted using the welding electrical parameters that were established for the test conducted conforming to Figure 5.1. The ranges of welding electrical parameters established during welding per Figure 5.1 in conformance with AWS D1.5, Clause 5.12, shall be further restricted according to the limits in Table 5.3 during welding per Figure 5.3.
- C. Multiple zones within a weld joint may be qualified. The travel speed, amperage, and voltage values that are used for tests conducted per AWS D1.5 Clause 5.13 shall be consistent for each pass in a weld joint, and shall in no case vary by more than ± 10 percent for travel speed, ± 10 percent for amperage, and ± 7 percent for voltage as measured from a predetermined target value or average within each weld pass or zone. The travel speed shall in no case vary by more than ± 15 percent when using submerged arc welding.
- D. For a WPS qualified in conformance with AWS D1.5 Clause 5.13, the values to be used for calculating ranges for current and voltage shall be based on the average of all weld passes made in the test. Heat input shall be calculated using the average of current and voltage of all weld passes made in the test for a WPS qualified in conformance with Clause 5.12 or 5.13.
- E. Macroetch tests are required for WPS qualification tests, and acceptance shall be per AWS D1.5 Clause 5.19.3.
- F. When a nonstandard weld joint is to be made using a combination of WPSs, a test conforming to Figure 5.3 may be conducted combining the WPSs to be used in production, provided the essential variables, including weld bead placement, of each process are limited to those established in Table 5.3.
- G. Prior to preparing mechanical test specimens, the PQR welds shall be inspected by visual and radiographic tests. Backing bar shall be 3 inches in width and shall remain in place during NDT testing. Results of the visual and radiographic tests shall comply with AWS D1.5 Clause 6.26.2, excluding Clause 6.26.2.2. Test plates that do not comply with both tests shall not be used.”

10-1.33 TRAFFIC MANAGEMENT PLAN

The Contractor shall submit a Traffic Management Plan (TMP) to the Engineer for approval. The TMP shall conform to the requirements in the Transportation Management Plan Guidelines Manual and these special provisions.

The TMP shall contain detailed plans for managing traffic for all major work activities and shall contain the following:

- A. Description and location of planned construction employees parking areas within the Areas for Contractor’s Use.
- B. Description and estimated traffic volume projections of construction employees entering and exiting the Project site. Construction employees must enter and exit the project site at the on and off ramps on Route 101 at Merchant Road near the Golden Gate Bridge Toll Plaza.
- C. Description and location of laydown and storage areas within Areas for Contractor’s Use.
- D. Description and estimated traffic volume projections expected to and from laydown and storage areas of each of the following construction vehicles : tractors, trailers, dump, concrete trucks, delivery trucks, heavy or wide oversized loads. Traffic volume projects shall include a description of planned haul routes within the Presidio. The Contractor’s planned haul routes must not conflict with other haul routes designed by the Presidio for construction work by others. The Contractor’s planned haul routes must be coordinated with other contractors working within the Presidio in accordance with "Cooperation" of these Special Provisions. In all cases, the Contractor must comply with the City and County of San Francisco’s requirements for use of adjacent streets outside the Presidio, including requirements of street-use permits, and must also adhere to any prohibitions, including those against staging.

DELIVERY AND HAULING OF MATERIAL

Delivery and hauling of all materials to construct the Project, whether to or within the project limits shall only be permitted at the access locations and during the hours on Chart No. 1, "Delivery and Hauling Material Requirements," of this special provision.

Materials are defined as and not limited to items associated with the following contract items of work: traffic handling (temporary railing (Type K), temporary crash cushions), roadway excavation and embankment work, clearing and grubbing, structure excavation/backfill, bridge sub/super structure work, temporary access, rockslope protection, drainage systems, electrical systems, temporary water pollution control, and erosion control.

Work requiring continuous non-stop operations, including but not limited to, concrete placement, will be exempted from these time restrictions.

No delivery and hauling vehicles are allowed to idle for more than five (5) minutes within the Presidio.

Chart No. 1																								
Delivery and Hauling of Material Requirements																								
Location: The Presidio																								
FROM HOUR TO HOUR	a.m.												p.m.											
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Mondays through Thursdays									X	X	X	X	X	X	X	X	X	X	X					
Fridays									X	X	X	X	X	X	X	X	X	X	X					
Saturdays							X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Sundays																								
Day before designated legal holiday							X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Designated legal holiday/ Special Events																								
Legend																								
X	Delivery and hauling of materials allowed. Access to the Presidio is allowed only at the on and off ramps on Route 101 at Merchant Road near the Golden Gate Bridge Toll Plaza or as shown on the plans.																							
	No Delivery or hauling of materials allowed																							
REMARKS:																								

SUBMITTALS

Within 5 days after contract approval, the Contractor shall submit 3 copies of the TMP to the Engineer. The Contractor shall allow 5 days for the Engineer's review. If revisions are required, the Engineer will provide comments and specify the date that the review stopped. The Contractor shall revise and resubmit the TMP within 5 days of receipt of the Engineer's comments. The Engineer's review will resume when the complete TMP is resubmitted. When the Engineer approves the TMP, the Contractor shall submit 4 copies of the approved TMP to the Engineer. The Contractor may proceed with construction activities if the Engineer conditionally approves the TMP while minor revisions are being completed.

The Contractor shall not perform work that may cause water pollution until the TMP has been approved by the Engineer. The Engineer's review and approval shall not waive any contract requirements and shall not relieve the Contractor from complying with Federal, State and local laws, regulations, and requirements.

If there is a change in construction schedule or activities, the Contractor shall prepare an amendment to the TMP to identify additional major work activities. The Contractor shall submit the amendment to the Engineer for review within a time agreed to by the Engineer not to exceed the number of days specified for the initial submittal of the TMP. The Engineer will review the amendment within the same time allotted for the review of the initial submittal of the TMP.

The Contractor shall keep a copy of the approved TMP at the job site. The TMP shall be made available when requested by a representative of the Presidio Trust. Requests from the public shall be directed to the Engineer.

IMPLEMENTATION REQUIREMENTS

The Contractor's responsibility for TMP implementation shall continue throughout any temporary suspension of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications.

If the Contractor or the Engineer identifies a deficiency in the implementation of the approved TMP, the deficiency shall be corrected immediately, unless an agreed date for correction is approved in writing by the Engineer.

If the Contractor fails to conform to the provisions of this section, "Traffic Management Plan," the Engineer may order the suspension of work until the project complies with the requirements of this section.

PAYMENT

The contract lump sum price paid for prepare traffic management plan shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing, obtaining approval of, and amending the traffic management plan as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.37 PROGRESS SCHEDULE (CRITICAL PATH METHOD)

Schedule Revisions

If the Contractor desires to make a change to the accepted schedule, the Contractor shall request permission from the Engineer in writing, stating the reasons for the change, and proposed revisions to activities, logic and duration. The Contractor shall submit for acceptance an analysis showing the effect of the revisions on the entire project. The analysis shall include:

- A. An updated schedule not including the revisions. The schedule shall have a data date just prior to implementing the proposed revisions and includes a project completion date;
- B. A revised schedule that includes the proposed revisions. The schedule will have the same data date as the updated schedule and include a project completion date;
- C. A narrative explanation of the revisions and their impact to the schedule; and
- D. Computer files of the updated schedule and the revised schedule sequentially numbered or renamed for archive (record) purposes.

The Engineer will provide a response within 10 days to Contractor proposed schedule revisions.

Within 15 calendar days, the Contractor shall submit a revised CPM network for approval when requested by the Engineer, or when any of the following occurs:

- A. there is a significant change in the Contractor's operations that will affect the critical path; or
- B. the Engineer determines that an approved or anticipated change will impact the critical path, milestone or completion dates, contract progress, or work by other contractors.

The Engineer shall be allowed 10 days to review and accept or reject a schedule revision. Rejected schedule revisions shall be revised and resubmitted to the Engineer within 10 days, at which time a new 10 day review period by the Engineer will begin. Only upon approval of a change by the Engineer shall it be reflected in the next schedule update submitted by the Contractor. The revised schedule shall also include a narrative explanation of the revisions and their impact to the schedule.

**Chart No. 8
Local Street Lane Requirements**

County: San Francisco	Route/Direction: NB and SB	PM: N/A																							
Closure Limits: McDowell Ave between Crissy Field Ave and Lincoln Blvd																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	R	1	1	C	C	C
Fridays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	R	1	1	1	1	1
Saturdays	1	1	1	1	1	1	1	1	1	R	R	R	R	R	R	R	R	R	R	1	1	1	1	1	1
Sundays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:

- 1 Provide at least one through traffic lane open in direction of travel
- R Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)
- C Closure allowed with detour in place.

REMARKS: This lane closure chart is only for falsework erection, falsework removal, placing temp railing (Type K), overhead demolition and pavement delineation. Use "McDOWELL Ave CLOSED" detour for the closure and detour of McDowell Ave between Crissy Field Ave and Lincoln Blvd. The Contractor cannot implement "McDOWELL Ave CLOSED" detour at the same time when "LINCOLN Blvd & COWLES St CLOSED" detour and "STOREY Ave CLOSED" detour are implemented.

**Chart No. 9
Local Street Lane Requirements**

County: San Francisco	Route/Direction: NB and SB	PM: N/A																							
Closure Limits: Storey Ave between Rod Road and Lincoln Blvd																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	R	1	1	C	C	C
Fridays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	R	1	1	1	1	1
Saturdays	1	1	1	1	1	1	1	1	1	R	R	R	R	R	R	R	R	R	R	1	1	1	1	1	1
Sundays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:

- 1 Provide at least one through traffic lane open in direction of travel
- R Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)
- C Closure allowed with detour in place.

REMARKS: This lane closure chart is only for falsework erection, falsework removal, placing temp railing (Type K), overhead demolition, pavement delineation and Ave realignment between Crissy Field Ave and Lincoln Blvd. Use "STOREY Ave CLOSED" detour for the closure and detour of Storey Ave between Rod Road and Lincoln Blvd. The Contractor cannot implement "STOREY Ave CLOSED" detour at the same time when "LINCOLN Blvd & COWLES St CLOSED" detour and "McDOWELL Ave CLOSED" detour are implemented.

Chart No. 10																									
Local Street Lane Requirements																									
County: San Francisco							Route/Direction: NB and SB							PM: N/A											
Closure Limits: Lincoln Blvd between Crissy Field Ave and Storey Ave, Cowles St between McDowell Ave and Lincoln Blvd																									
FROM HOUR TO HOUR																									
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	1	1	C	C	C	
Fridays	C	C	C	C	C	1	1	R	R	R	R	R	R	R	R	R	R	R	R	1	1	1	1	1	
Saturdays	1	1	1	1	1	1	1	1	1	R	R	R	R	R	R	R	R	R	1	1	1	1	1	1	
Sundays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Legend:																									
1 Provide at least one through traffic lane open in direction of travel																									
R Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)																									
C Closure allowed with detour in place.																									
REMARKS: : This lane closure chart is only for falsework erection, falsework removal, placing temp railing (Type K), overhead demolition, pavement delineation and realignment of Lincoln Blvd. Use "LINCOLN Blvd & COWLES St CLOSED" detour for the closure and detour of Lincoln Blvd between Crissy Field Ave and Storey Ave. The Contractor cannot implement "LINCOLN Blvd & COWLES St CLOSED" detour at the same time when "McDOWELL Ave CLOSED" detour and "STOREY Ave CLOSED" detour are implemented																									

Chart No. 11																									
Local Street Lane Requirements																									
County: San Francisco							Route/Direction: NB and SB							PM: N/A											
Closure Limits: Crissy Field Ave from Lincoln Blvd to McDowell Ave																									
FROM HOUR TO HOUR																									
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																									
C Closure allowed with detour in place.																									
REMARKS:: This lane closure chart is only for falsework erection, falsework removal, placing temp railing (Type K), overhead demolition and pavement delineation. Use "CRISSY FIELD Ave CLOSED" detour for the closure and detour of Crissy Field Ave from Lincoln Blvd to McDowell Ave.																									

**Chart No. 12
Local Street Lane Requirements**

County: San Francisco	Route/Direction: NB and SB	PM: N/A
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Closure Limits: Cowles St between Lincoln Blvd and McDowell Ave

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	C	C	
Fridays	C	C	C	C	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Saturdays	1	1	1	1	1	1	1	1	1	R	R	R	R	R	R	R	R	R	1	1	1	1	1	1	
Sundays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Legend:

- 1
 Provide at least one through traffic lane open in direction of travel

- R
 Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)

- C
 Closure allowed with detour in place.

REMARKS: : This lane closure chart is only for falsework erection, falsework removal, placing temp railing (Type K), overhead demolition, pavement delineation and realignment of Lincoln Blvd. Use "LINCOLN Blvd & COWLES St CLOSED" detour for the closure and detour of Cowles St between Lincoln Blvd and McDowell Ave. The Contractor cannot implement "LINCOLN Blvd & COWLES St CLOSED" detour at the same time when "STOREY Ave CLOSED" detour and "McDOWELL Ave CLOSED" detour are implemented

10-1.89 CLEAN AND PAINT SIGN STRUCTURES, STANDARDS, STEEL PEDESTALS AND POSTS

Sign structures, standards, steel pedestals and posts shall be cleaned and painted in conformance with the provisions for preparing and painting galvanized surfaces as specified in "California ST-10 Bridge Rail" of these special provisions.

Galvanized sign structures, standards, steel pedestals and posts shall be prepared and painted using the same painting system requirements and finish coat color as the adjacent california ST-10 bridge rail for the locations listed in "California ST-10 Bridge Rail" of these special provisions.

PAYMENT

Full compensation for clean and paint sign structures, standards, steel pedestals, and posts shall be considered as included in the contract prices paid for the vaious items involved to be cleaned and painted, and no additional compensation will be allowed therefor.

Full compensation for conforming to the requirements in SSPC-QP 1, SSPC-QP 2, and SSPC-QP 3 of the "SSPC: The Society for Protective Coatings" shall be considered as included in the contract prices paid for the vaious involved to be cleaned and painted, and no additional compensation will be allowed therefor."

BID ITEM LIST
04-163734

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	070013	SMALL BUSINESS UTILIZATION REPORT	EA	10	250.00	2,500.00
3	070018	TIME-RELATED OVERHEAD	WDAY	540		
4	017258	TEMPORARY FENCE (TYPE CL-6, SLATTED)	LF	13,000		
5	071324	TEMPORARY REINFORCED SILT FENCE	LF	250		
6	071325	TEMPORARY FENCE (TYPE ESA)	LF	1,100		
7	072006	TEMPORARY SUPPORT	LS	LUMP SUM	LUMP SUM	
8	072009	TEMPORARY DECK BRIDGING	LS	LUMP SUM	LUMP SUM	
9	073006	18" TEMPORARY CULVERT	LF	350		
10	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
11	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
12	017259	DEWATERING AND NON-STORM WATER DISCHARGE CONTROL	LS	LUMP SUM	LUMP SUM	
13	074027	TEMPORARY EROSION CONTROL BLANKET	SQYD	10,600		
14	074028	TEMPORARY FIBER ROLL	LF	2,400		
15	074029	TEMPORARY SILT FENCE	LF	4,490		
16	074031	TEMPORARY GRAVEL BAG BERM	LF	3,150		
17	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	5		
18	074034	TEMPORARY COVER	SQYD	970		
19	074035	TEMPORARY CHECK DAM	LF	410		
20	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	10		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	45		
22	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	5,000		
23	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
24	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
25	017260	SURVEY OF EXISTING NON-HIGHWAY FACILITIES	LS	LUMP SUM	LUMP SUM	
26	017261	VIBRATION MONITORING	LS	LUMP SUM	LUMP SUM	
27	BLANK					
28	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
29	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
30	017263	TRAFFIC MANAGEMENT PLAN	LS	LUMP SUM	LUMP SUM	
31	017264	TEMPORARY ACCESS PLAN	LS	LUMP SUM	LUMP SUM	
32	120120	TYPE III BARRICADE	EA	54		
33	017265	TEMPORARY CHAIN LINK GATE	EA	4		
34	128650	PORTABLE CHANGEABLE MESSAGE SIGN	LS	LUMP SUM	LUMP SUM	
35	129000	TEMPORARY RAILING (TYPE K)	LF	15,800		
36	129100	TEMPORARY CRASH CUSHION MODULE	EA	33		
37	129150	TEMPORARY TRAFFIC SCREEN	LF	13,400		
38	017266	SOUND CONTROL AND MONITORING	LS	LUMP SUM	LUMP SUM	
39	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	5,700		
40	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	4,700		

BID ITEM LIST
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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	2,646		
122 (F)	042202	STRUCTURAL CONCRETE, BRIDGE (SLAB)	CY	470		
123 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	100		
124 (F)	510088	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N MODIFIED)	CY	705		
125 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	204		
126	510526	MINOR CONCRETE (BACKFILL)	CY	10		
127	511047	ANTI-GRAFFITI COATING	SQFT	66,000		
128 (F)	042203	ARCHITECTURAL TEXTURE (FLUTED FIN)	SQFT	18,140		
129 (F)	BLANK					
130	511106	DRILL AND BOND DOWEL	LF	180		
131	518051	PTFE SPHERICAL BEARING	EA	12		
132	519088	JOINT SEAL (MR 1")	LF	50		
133	519091	JOINT SEAL (MR 1 1/2")	LF	60		
134	519100	JOINT SEAL (MR 2")	LF	182		
135	519102	JOINT SEAL (TYPE AL)	LF	512		
136	042205	SEISMIC JOINT (ABUTMENT 1)	LS	LUMP SUM	LUMP SUM	
137	042206	SEISMIC JOINT (ABUTMENT 7)	LS	LUMP SUM	LUMP SUM	
138	042207	SEISMIC JOINT (HINGE 1)	LS	LUMP SUM	LUMP SUM	
139 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	7,541,000		
140 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	509,500		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141 (F)	042208	BAR REINFORCING STEEL (BRIDGE)(TEMPORARY WIDENING)	LB	63,500		
142 (F)	042209	BAR REINFORCING STEEL (BRIDGE)(TEMPORARY BRIDGE)	LB	258,000		
143 (F)	520120	HEADED BAR REINFORCEMENT	EA	14,220		
144 (F)	550102	STRUCTURAL STEEL (BRIDGE)	LB	807,000		
145 (F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	LB	43,900		
146 (F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	LB	43,900		
147	560233	FURNISH FORMED PANEL SIGN (OVERHEAD)	SQFT	600		
148	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	100		
149	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	220		
150	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-FRAMED)	SQFT	200		
151	561016	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	110		
152	562004	METAL (RAIL MOUNTED SIGN)	LB	1,030		
153	566011	ROADSIDE SIGN - ONE POST	EA	25		
154	566012	ROADSIDE SIGN - TWO POST	EA	4		
155	590115	CLEAN AND PAINT STRUCTURAL STEEL	LS	LUMP SUM	LUMP SUM	
156	620060	12" ALTERNATIVE PIPE CULVERT	LF	140		
157	620080	15" ALTERNATIVE PIPE CULVERT	LF	62		
158	620100	18" ALTERNATIVE PIPE CULVERT	LF	3,300		
159	620180	30" ALTERNATIVE PIPE CULVERT	LF	490		
160	620340	54" ALTERNATIVE PIPE CULVERT	LF	410		

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	017274	LIGHTING AND SIGN ILLUMINATION (STAGE CONSTRUCTION)	LS	LUMP SUM	LUMP SUM	
202	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
203	017275	LIGHTING AND SIGN ILLUMINATION (GOLDEN GATE BRIDGE)	LS	LUMP SUM	LUMP SUM	
204	860791	COMMUNICATION CONDUIT	LS	LUMP SUM	LUMP SUM	
205	017276	HIGH VOLTAGE CONDUIT	LS	LUMP SUM	LUMP SUM	
206	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
207	017277	BASE CAMERA SYSTEM	LS	LUMP SUM	LUMP SUM	
208	017278	TUNNEL TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
209	017279	TRAFFIC OPERATION SYSTEM	LS	LUMP SUM	LUMP SUM	
210	017280	INTEGRATED CAMERA UNIT	EA	2		
211	017281	CAMERA CONTROL UNIT	EA	2		
212	017282	VIDEO ENCODER UNIT	EA	2		
213	017283	POWER STRIP	EA	3		
214	017284	EQUIPMENT SHELF	EA	3		
215	860520	HIGHWAY ADVISORY RADIO SYSTEM	LS	LUMP SUM	LUMP SUM	
216	017285	GENERAL PACKET RADIO SYSTEM (GPRS) WIRELESS MODEM	EA	2		
217	017286	FIBER OPTIC DATA MODEM	EA	4		
218	017287	FIBER OPTIC TRANSMITTER	EA	4		
219	017288	FIBER OPTIC DISTRIBUTION UNIT	EA	4		
220	BLANK					

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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221 (F)	560208	FURNISH SIGN STRUCTURE (TUBULAR)	LB	38,370		
222 (F)	560209	INSTALL SIGN STRUCTURE (TUBULAR)	LB	38,370		
223	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____