CITY OF HOLTVILLE

121 WEST FIFTH STREET

HOLTVILLE, CALIFORNIA 92250 - 1298 • (760) 356 - 2912

" THE CARROT CAPITAL OF THE WORLD "

Pre-bid Conference Memo

Originator: Nicholas Wells, City Manager

Distribution: CITY OF HOLTVILLE
Yvette Rios, City Clerk
Alex Chavez, Public Works Supervisor

PLAN HOLDERS

LC ENGINEERING CONSULTANTS, INC.
Carlos Corralles, P.E., Consulting Design Engineer
Marco Ornelas, Associate Engineer

Date: October 3, 2025

Federal-aid Project No.: STPL 5174(034)

Subject: **City of Holtville – 9th Street Pedestrian and Bicycle Improvements Between Melon Road and Olive Avenue (West 9th St. Improvements)**

A pre-bid conference was conducted for the City of Holtville – 9th Street Pedestrian and Bicycle Improvements Between Melon Road and Olive Avenue. The meeting was held on Friday, October 3, 2025, at 10:00 a.m. at Holtville City Hall. The Agenda and Attendance Sheet for the meeting are included as attachments to this meeting memorandum.

The information that follows includes the meeting minutes and the items discussed and reviewed at the meeting.

1. <Agenda Item No. 1> Those present at the meeting were introduced. The attendance record was circulated among the attendees.

2. <Agenda Item No. 2> Project Bid Documents access was reviewed. The bid documents are available for downloading at the following link:

   https://www.holtville.ca.gov/business/

3. <Agenda Item No. 3> Project Description and Scope of Work related to the project were briefly reviewed as follows:

   a. The project is located along the north side of 9th Street between Melon Road and Olive Avenue.
   b. The project consists of the north half roadway widening along 9th Street.
   c. Asphalt Rubberized Hot Mix (ARHM) pavement shall be installed for the roadway widening.
   d. The project also consists of the installation of P.C.C. curb and gutter, sidewalk, and driveway.
   e. The project is located within the City of Holtville Right-of-Way; however, the proposed infrastructure encroaches into the IID Right-of-Way. An encroachment permit was obtained from the IID Water Department for the encroachment. The issued IID Encroachment permit is included in the Special Conditions Section of the Project Specifications.
   f. Some of the proposed traffic control devices will be installed within the County of Imperial Right-of-Way. An encroachment permit was obtained from the County of Imperial Public Works Department. The issued County of Imperial encroachment permit is included in the Special Conditions Section of the Project Specifications.
   g. The project consists of less than 1 acre of soil disturbance area; therefore, the General Construction Permit provisions per the State Water Resources Control Board will not apply to this project. Erosion Control Plan was included as a part of the Improvement Plans.

4. <Agenda Item No. 4> The Schedule of Events was briefly reviewed. The key dates are listed below:

    a. Bid date: 2:00 PM on October 21, 2025
    b. Notice to Proceed: November 7, 2025 (10 days to start)
    c. Construction Commencement date (late start): November 17, 2025
    d. Construction Duration: 60 Calendar Days
    e. Construction Completion date: January 15, 2026

5. <Agenda Item No. 5> The General Contractor and all subcontractors are required to obtain a Business License from the City of Holtville prior to the commencement of the construction activities.

6. <Agenda Item No. 6> Instructions for Bidders were reviewed.
    a. Questions are to be forwarded to the City of Holtville in writing or by email (nwells@holtville.ca.gov) at least seven (7) days prior to the Bid Opening Date, by Tuesday, October 14, 2025.
    b. Proposals are to be submitted to the City of Holtville City Hall located at 121 W. Fifth Street, Holtville, CA 92250.
    c. Performance and Payment Bond Amounts shall be 100% of the Bid Amount.
    d. Liquidated Damage shall be $1,200.00 per Calendar Day.
    e. Engineer's Opinion of Probable Construction Cost is $596,000.00.
    f. The project is funded by the Federal Highway Administration (FHWA) administered by Caltrans.
    g. Federal and State contract provisions were included in the Proposal Forms for compliance.

7. <Agenda Item No. 7> DBE requirements were reviewed. A project goal was established for DBE participation. The DBE goal for this project is 19%. Exhibit 15-G DBE Commitment Form and Good Faith Efforts Submittals are to be received by the City of Holtville within five (5) days of bid opening, if not submitted with the bid.

   DBE Confirmation Forms (LAPM 9-I) will also need to be prepared by each participating DBE firm. These DBE Confirmation Forms or equivalent forms must be submitted no later than 4 p.m. on the 5th day after bid opening.

8. <Agenda Item No. 8> Labor Compliance Requirements for the project were reviewed. State and Federal Wage Rates apply to this project.

9. <Agenda Item No. 9> Quality Assurance Program (QAP) requirements were reviewed. Quality Control (QC) Testing shall be completed by the Contractor. Witness Testing/Quality Assurance (QA) shall be provided by the City of Holtville. The Contractor shall be responsible for providing the QC services. City of Holtville QAP dated September 14, 2023, is attached to this memorandum.

10. <Agenda Item No. 10> Bid Forms were briefly reviewed. There are total of twenty-eight (28) bid items.

11. <Agenda Item No. 11> Special Conditions were reviewed as follows:

    1) Mobilization
    2) As-Built Drawings – As-built information shall be recorded by the Contractor.
    3) Submittals – A preliminary list of submittals was included in the contract documents. This list is not all-inclusive as there may be

additional items to be added to the list by the Resident Engineer. The Contractor will be responsible for submitting and obtaining approval on all submittals required by the City of Holtville.

4) Geotechnical Testing Requirements – A preliminary list of geotechnical testing requirements was included in the contract documents (Pages 158 of the Specifications). An independent Geotechnical Engineer shall be responsible for performing the QC services contracted by the Contractor. Another independent Geotechnical Engineer shall be responsible for performing witness testing/quality assurance (QA) services, contracted by the City of Holtville. All geotechnical-related work shall be completed in accordance with the QAP requirements.
5) Business License (was reviewed under Item No. 5)
6) Construction Water – Construction water is available from the nearest fire hydrant. The Contractor shall supply a backflow preventer and discharge hose, if necessary.
7) Staging Area – An area will be available within the City of Holtville Public Works Compound on the south side of Fourth Street, east of Cedar Avenue, for the Contractor's use.
8) Sweeping of Street Pavement and P.C.C. Infrastructure – The Contractor shall sweep the adjacent affected streets frequently and as needed to keep the construction materials/debris away from the existing infrastructure surface.
9) Excess Native Material Disposal – Excess native material shall be transported and disposed of at the City of Holtville Public Works Yard located along the south side of Fourth Street between Cedar Avenue and Fern Avenue.
10) The IID Encroachment Permit and the County of Imperial Encroachment Permit were included for the Contractor's compliance.
11) Categorical Exemption/Categorical Exclusion Determination Form Conditions were reviewed. There are no special environmental conditions to be mitigated for the project.

12) Construction Staking shall be provided by the Contractor. The staking and demolition layout work to be provided by the Contractor is listed in General Conditions Section 9 – Surveys, Permits, and Regulations (Page 125 of the Specifications). Please note that the City of Holtville is currently soliciting a consulting firm to provide Resident Engineering/Construction Management services. The Contractor shall verify that the consulting firm to provide construction staking for this project is not the selected Resident Engineer/Construction Manager for this project to avoid a conflict of interest.
13) Air Pollution Control District Requirements – The Contractor shall be responsible for being in compliance with the Air Pollution Control requirements as specified in the Contract Documents and per the County of Imperial Air Pollution Control District during the construction activities. The bidders are recommended to visit the Air Pollution Control District's website to obtain the latest forms required for the project and to fulfill all their requirements.
14) Restroom Facilities – The Contractor shall provide two (2) gender-neutral bathroom units onsite.
15) Utilities Pot-hole is required for the project.
16) Project Signs – Project Identification Signs and Project Signs related to Labor Compliance shall be required for the project.
17) The Notification and Traffic Control section was reviewed. Traffic Control Plan is included in the Improvement Plans for the Contractor's compliance.
18) City of Holtville Standard Details and Specifications apply to this project unless otherwise specified in the Contract Documents.
19) Removal of Asbestos and Hazardous Substances shall comply with the governing agency's requirements, if applicable, as a change order work.
20) Project meetings shall be conducted weekly.

21) Certificate of Compliance Verification shall be required for applicable materials delivered to the site.
22) Buy America requirements apply to this project.

12. <Agenda Item No. 12> Technical Conditions were briefly reviewed. It was informed that technical conditions were prepared based on the City of Holtville Standard.

The pre-bid conference was concluded at 10:30 a.m.

CITY OF HOLTVILLE

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" THE CARROT CAPITAL OF THE WORLD "

FRIDAY, OCTOBER 3, 2025, AT 10:00 A.M.

MANDATORY PRE-BID CONFERENCE ATTENDANCE RECORD FOR:

CITY OF HOLTVILLE
9TH STREET PEDESTRIAN AND BICYCLE IMPROVEMENTS BETWEEN MELON ROAD AND OLIVE AVENUE

THG PROJECT NO. 116.512E/P
STPL-5174(034)

NO.	NAME	COMPANY, AGENCY OR UTILITY	CONTACT INFORMATION
1.	Archie Abeyta	Pyramid	Phone: 760 337 5839 Email: Archie@PyramidCA.com
2.	Ron Swerdfeger II	Radco Inc	Phone: 760-455-6087 Email: Ron@radcoinc.net
3.	Dale Miller	DJ Miller Inc	Phone: 760-455-6804 Email: DJMillerInc1@GMail.Com
4.	JOSE RUBIO	ROVE	Phone: 619 755 1049 Email: tumado@gmail.com
5.	SHAWN WITTENBERG	LC Paving	Phone: 760-593-8055 Email: SHAWN@LCPaving.com

MANDATORY PRE-BID CONFERENCE ATTENDANCE RECORD
FRIDAY, OCTOBER 3, 2025, AT 10:00 A.M.
PROJECT: CITY OF HOLTVILLE - 9TH STREET PEDESTRIAN AND BICYCLE IMPROVEMENTS BETWEEN MELON ROAD AND OLIVE AVENUE

NO.	NAME	COMPANY, AGENCY OR UTILITY	CONTACT INFORMATION
6.	Jose Sanchez	ACME Traffic Control	Phone: 714 293 0444
			Email:
7.	Nick Wells	City of Holtville	Phone: (760) 356-2831
			Email: NWells@Holtville.ca.gov
8.	Marco Ornelas	LC Engineering	Phone: (760) 437-9744
			Email: marcoornelas@lcec-inc.com
9.	Carlos Corrales	Lc Engineering	Phone: 760 353-8110
			Email: carloscorrales@lcec-inc.com
10.			Phone:
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11.			Phone:
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12.			Phone:
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13.			Phone:
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14.			Phone:
			Email:

CITY OF HOLTVILLE

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CITY OF HOLTVILLE –9TH STREET PEDESTRIAN AND BICYCLE IMPROVEMENTS BETWEEN MELON ROAD AND OLIVE AVENUE

FEDERAL AID PROJECT NO. STPL-5174 (034)
THG Project No. 116.512E/P

AGENDA FOR MANDATORY PRE-BID CONFERENCE

FRIDAY, OCTOBER 3, 2025, AT 10:00 AM

1. Introduction of those present at the Pre-Bid Conference and circulation of the Attendance List for the Project.

2. Project Bid Documents Access:

   https://www.holtville.ca.gov/business/

3. Review the Project Description and Scope of Work related to the project.

4. Review the Schedule of Events. Review the time duration of the project.

   A. Bid Opening: 2:00 PM on Tuesday, October 21, 2025
   B. Notice to Proceed: November 7, 2025 (10 days to start)
   C. Construction Commencement date (late start): November 17, 2025
   D. Construction Duration: 60 Calendar Days
   E. Construction Completion date: January 15, 2026

5. City of Holtville – Business License

6. Review Instructions for Bidders

   A. Questions are to be forwarded to the City of Holtville in writing at least seven (7) days prior to the Bid Opening Date, by October 14, 2025. Questions received less than seven (7) days prior to the Bid Opening Date may not be answered.

   B. Questions may be directed to the City of Holtville City Manager by the following email: nwells@holtville.ca.gov.

C. Bids are to be submitted to the City of Holtville City Hall located at 121 W. Fifth Street, Holtville, CA 92250

D. Performance and Payment Bond Amounts – 100%

E. Liquidated Damage: $1,200.00

F. Engineer's Opinion of Probable Construction Cost: $596,000.00

7. Review DBE Requirements – DBE Goal: 19%

8. Review Labor Compliance Requirements
   a. State of California Wage Rate Determination No. 2025-2
   b. Federal Davis Bacon and Related Acts Wage Rates General Decision No. CA20250002

9. Quality Assurance Program – Quality Control (QC) Testing by the Contractor and Witness/Quality Assurance (QA) Testing by the City's consulting CM/RE firm

10. Bid Forms

11. Special Conditions

    1. Mobilization
    2. As-Built Drawings
    3. Submittals
    4. Geotechnical Testing (Page 158 of the Specifications)
    5. Business License (Reviewed Under Item No. 5)
    6. Construction Water
    7. Staging Area
    8. Sweeping of Street Pavement and P.C.C. Infrastructure
    9. Excess Native Material Disposal
    10. Encroachment Permits (County of Imperial and IID) and IID Power Pole Relocation
    11. Categorical Exemption/Categorical Exclusion Determination Form Conditions
    12. Construction Staking (Page 125 - Item 9 of the General Conditions of the Specifications)
    13. Air Pollution Control District Requirements
    14. Restroom Facilities
    15. Utilities Pot-Hole
    16. Project Signs
    17. Notification and Traffic Control
    18. City of Holtville Standard Details and Specifications
    19. Removal of Asbestos and Hazardous Substances
    20. Project Meetings
    21. Certificate of Compliance Verification
    22. Buy America Requirements Revisions

12. Technical Conditions

CITY OF HOLTVILLE

QUALITY ASSURANCE PROGRAM (QAP)

For

Federal-aid Projects Off the State Highway System

September 14, 2023

REGISTERED PROFESSIONAL ENGINEER
JAMES G. HOLT
No. 31773
Exp. 12-31-24
CIVIL
STATE OF CALIFORNIA

Approved by:

James G. "Jack" Holt, PE
City of Holtville City Engineer
Registration No. 31,773 - Exp. 12/31/24

9/14/2023
Date

THE HOLT GROUP, INC.
1601 N. Imperial Ave. • El Centro, CA 92243 • P. 760.337.3883 • F. 760.337.5997

1.0 INTRODUCTION

The purpose of this program is to provide assurance that the materials incorporated into the federal-aid construction projects off the National Highway System (NHS) are in conformance with the contract specifications. This program should be updated every five years or more frequent if there are changes of the testing frequencies or to the tests themselves.

2.0 DEFINITION OF TERMS

The following terms and definitions will be used within this QAP:

- Acceptance Testing (AT) – Sampling and testing, or inspection, to determine the degree of compliance with contract requirements.
- Independent Assurance Program (IAP) – Verification that AT is being performed correctly by qualified testers and laboratories.
- Quality Assurance Program (QAP) – A sampling and testing program that will provide assurance that the materials and workmanship incorporated into the construction project are in conformance with the contract specifications. The main elements of a QAP are the AT, and IAP.
- Source Inspection – AT of manufactured and prefabricated materials at locations other than the job site, generally at the manufactured location.

3.0 MATERIALS LABORATORY

The City of Holtville will use their own materials laboratory or a private consultant materials laboratory to perform AT on Federal-aid and other designated projects. The materials laboratory shall be under the responsible management of a California registered Engineer with experience in sampling, inspection and testing of construction materials.

The Engineer shall certify the results of all tests performed by laboratory personnel under the Engineer's supervision. The materials laboratory shall contain certified test equipment capable of performing the tests conforming to the provisions of this QAP.

The materials laboratory used shall provide documentation that the laboratory complies with the following procedures:

3.1 Correlation Testing Program - The materials laboratory shall be a participant in one or more of the following testing programs:

a. AASHTO Materials Reference Laboratory (AMRL)
b. Cement and Concrete Reference Laboratory (CCRL)
c. Caltrans' Reference Samples Program (RSP)

3.2 Certification of Personnel - The materials laboratory shall employ personnel who are certified by one or more of the following testing programs:

a. Caltrans District Materials Engineer
b. Nationally recognized non-Caltrans organizations such as the American Concrete Institute, Asphalt, National Institute of Certification of Engineering Technologies, etc.
c. Other recognized organizations approved by the State of California and/or recognized by local governments or private associations.

3.3 Laboratory and Testing Equipment - The materials laboratory shall only use laboratory and testing equipment that is in good working order. All such equipment shall be calibrated at least once each year.
All testing equipment must be calibrated by impartial means using devices of accuracy traceable to the National Institute of Standards and Technology. A decal shall be firmly affixed to each piece of equipment showing the date of the last calibration. All testing equipment calibration decals shall be checked as part of the IAP.

4.0 ACCEPTANCE TESTING (AT)

AT will be performed by a materials laboratory certified to perform the required tests. The tests results will be used to ensure that all materials incorporated into the project are in compliance with the contract specifications.

Testing methods will be in accordance with the CT Methods or a national recognized standard (i.e., AASHTO, ASTM, etc.) as specified in the contract specifications.

Sample locations and frequencies shall be in accordance with the contract specifications. If not so specified in the contract specifications, samples shall be taken at the locations and frequencies as shown in Attachment #1(Appendix D, "Acceptance Sampling and Testing Frequencies" of the QAP Manual).

5.0 INDEPENDENT ASSURANCE PROGRAM (IAP)

IAP shall be provided by personnel from Caltrans or the City of Holtville's consultant's certified materials laboratory. IAP will be used to verify that sampling and testing procedures are being performed properly and that all testing equipment is in good condition and properly calibrated.

IAP personnel shall be certified in all required testing procedures, as part of IAP, and shall not be involved in any aspect of AT.

IAP shall be performed on every type of materials test required for the project. Proficiency tests shall be performed on Sieve Analysis, Sand Equivalent, and Cleanness Value tests. All other types of IAP shall be witness tests.

Poor correlation between acceptance tester's results and other test results may indicate probable deficiencies with the acceptance sampling and testing procedures. In cases of unresolved discrepancies, a complete review of AT shall be performed by IAP personnel, or an independent materials laboratory chosen by the City of Holtville. IAP samples and tests are not to be used for determining compliance with contract requirements. Compliance with contract requirements is determined only by AT.

6.0 REPORTING ACCEPTANCE TESTING RESULTS

The following are time periods for reporting material test results to the Resident Engineer:

- When the aggregate is sampled at material plants, test results for Sieve Analysis, Sand Equivalent and Cleanness Value should be submitted to the Resident Engineer within 24 hours after sampling.
- When materials are sampled at the job site, test results for compaction and maximum density should be submitted to the Resident Engineer within 24 hours after sampling.
- When soils and aggregates are sampled at the job site:

  (1) Test results for Sieve Analysis, Sand Equivalent and Cleanness Value should be submitted to the Resident Engineer within 72 hours after sampling.

  (2) Test results for "R" Value and asphalt concrete extraction should be submitted to the Resident Engineer within 96 hours after sampling.

When sampling products such as Portland Cement Concrete (PCC), cement-treated base (CTB), hot mix asphalt (HMA), and other such materials; the time of such sampling shall be varied with respect to the time of the day insofar as possible, in order to avoid a predictable sampling routine. The reporting of AT results, if not performed by the Resident Engineer's staff, shall be done on an expedited basis such as by fax or telephone.

7.0 TESTING OF MANUFACTURED MATERIALS

During the Design phase of the project, the Project Engineer may submit a "Source Inspection Request" see Attachment#2 (Exhibit 16-V of the LAPM) to the City of Holtville, consultant, or Caltrans for inspection and testing of manufactured and prefabricated materials by their materials laboratory. A list of materials that can be typically accepted on the basis of certificates of compliance during construction is found in Attachment #3 (Appendix F of the QAP Manual). All certificates of compliance

shall conform to the requirements of the contract specifications, for examples see Attachment #4 (Appendix J of the QAP Manual).

Should the City of Holtville request Caltrans to conduct the source inspection, and the request is accepted, all sampling, testing, and acceptance of manufactured and prefabricated materials will be performed by Caltrans' Office of Materials Engineering and Testing Services.

For Federal-aid projects on the National Highway System (NHS), Caltrans will assist in certifying the materials laboratory, and the acceptance samplers and testers. For Federal-aid projects off the NHS, Caltrans may be able to assist in certifying the materials laboratory, and the acceptance samplers and testers.

8.0 ISSUE RESOLUTION LADDER

The intention of all team members is to resolve issues at the lowest possible level and as quickly as possible. If additional time is required to obtain information, the parties must agree on the time necessary to resolve the issue. If it cannot be resolved at the level presented or in a mutually agreeable time frame, it will be immediately and jointly escalated to the next level. Document any issues escalated beyond the first level and inform the parties that the issue is being formally escalated. This process is continued for each level in the chain of command. The team's commitment is to resolve every dispute using this procedure and without resorting to outside parties (mediation or litigation). All parties involved with the process shall be promptly notified upon decisions and reasons are made.

Level	Involved Parties	
1	Contractor	Geotechnical Consultant
2	Geotechnical Consultant	Resident Engineer
3	Resident Engineer	City of Holtville City Engineer

9.0 PROCEDURE FOR DISPUTE RESOLUTION

Dispute resolution refers to the process of denial, suspension, revocation, appeals, and reinstatement of an IA person, an acceptance sampler and tester, or a laboratory. If the Contractor or member of a private laboratory has a dispute with the City of Holtville involving a quality assurance item, the City Engineer from the City of Holtville shall be selected to review the dispute.

The Resident Engineer and/or IA person and the party in dispute will submit his/her substantiating paperwork to the City Engineer, within 10 days after requested to do so. In some cases, one or more meetings may be needed to resolve disputes. Within a 30-day period, the City of Holtville City Engineer should resolve the dispute, based on the evidence presented. Appeals by the Contractor, Resident Engineer, the IA person, or acceptance sampler and tester may be made after the final decision by the City of Holtville City Engineer. The person making the appeal should be directed to contact the District Local Assistance Engineer no more than 14 days after receiving written notice of the final decision by the City of Holtville City Engineer.

10.0 PROJECT MEETINGS

10.1 Pre-Construction Meeting

A Pre-Construction Meeting will be conducted within fifteen (15) working days after the Notice of Proceed has been issued or as otherwise required by the Contract Documents. This QAP shall be discussed and reviewed at the Pre-Construction Meeting to familiarize the involved parties with the procedure and frequencies of the testing requirements and protocol for the procedure for dispute resolution. All involved parties shall have clear understanding of the requirements established by QAP and be advised to strictly follow the procedures.

10.2 Project Meetings

Project Meetings will be conducted bi-weekly or as otherwise required by the Contract Documents. To the maximum extent practicable, the Resident Engineer, Project Superintendent and other representatives who have full knowledge of the project and full authority to act for the Contractor shall represent the Contractor at Project Meetings throughout the progress of the Work. All parties involved with QAP procedures including AT and IA personnel shall be invited to bi-weekly meetings if there are any issues, concerns or dispute regarding QAP procedure. Sampling of materials and testing schedule shall also be reviewed at the Project Meetings in order to provide an advance notice to AT and IA personnel for coordination.

11.0 PROJECT CERTIFICATION

Upon completion of a Federal-aid project, a "Materials Certificate" shall be completed by the Resident Engineer. The City of Holtville shall include a "Materials Certificate" in the Report of Expenditures submitted to the Caltrans District Director, Attention: District Local Assistance Engineer. A copy of the "Materials Certificate" shall also be included in the City of Holtville's construction records and in the project notebook. The Resident Engineer in charge of the construction function for the City of Holtville shall sign the certificate. All materials incorporated into the work which did not conform to specifications must be explained and justified on the "Materials Certification", including changes by virtue of contract change orders. See Attachment # 5 for an example (Appendix K of the QAP Manual).

12.0 RECORDS

All material records of samples and tests, material releases and certificates of compliance for the construction project shall be incorporated into the Resident Engineer's project file. If a Federal-aid project:

- The files shall be organized as described in Section 16.8 "Project Files" of the Local Assistance Procedures Manual.

- It is recommended that the complete project file be available at a single location for inspection by Caltrans and Federal Highway Administration (FHWA) personnel.
- The project files shall be available for at least three years following the date of final project voucher.
- The use of a "Log Summary," as shown in Attachment #6, facilitates reviews of material sampling and testing by Caltrans and FHWA, and assists the Resident Engineer in tracking the frequency of testing.

When two or more projects are being furnished identical materials simultaneously from the same plant, it is not necessary to take separate samples or perform separate tests for each project; however, copies of the test reports are to be provided for each of the projects to complete the records.

ATTACHMENT NO. 1
ACCEPTANCE SAMPLING &
TESTING FREQUENCIES

ATTACHMENT NO. 1

ACCEPTANCE SAMPLING AND TESTING FREQUENCIES

NOTE: It may be desirable to sample and store some materials. If warranted, testing can be performed at a later date.

Portland Cement (Hydraulic Cement)

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Cement/fly ash (Sampling only)	8-lb. sample	If possible, take at least one sample per job, even if the material is accepted based on a Certificate of Compliance.	ASTM D75, C494 CT 125 AASHTO T127, M85, M295	Standard for sampling hydraulic cement or fly ash*.
Cement (Testing Only)	8-lb. sample	If the product is accepted based on a Certificate of Compliance, testing is not required. If the product is not accepted using a Certificate of Compliance, test at least once per job.	ASTM C109 CT 515 AASHTO T106	If testing appears warranted, fabricate six 2-in. mortar cubes using the Portland (or hydraulic cement). Test for compressive strength*.

Portland Cement Concrete (Hydraulic Cement Concrete)

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Aggregate for Hydraulic Cement Concrete (Sampling & Testing)	50-lb. sample	Take one aggregate sample for each 1000 cu. Yd. of PCC/HCC concrete. Test at least one sample per job.	ASTM D75 CT125 AASHTO M6, T2, M80	Sample aggregate from belt or hopper (random basis).
Water (Sampling & Testing)	Take a two-quart sample using a clean plastic jug (with lining) and sealed lid. Sample at the point of use.	If the water is clean with no record of chlorides or sulfates greater than 1%, no testing is required. If the water is dirty, do not use it. Test only when the chloride or sulfates are suspected to be greater than 1%	CT 405, CT 422, CT 417 AASHTO R23	If testing appears warranted, test for chlorides and sulfates.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Portland Cement Concrete (Hydraulic Cement Concrete) – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Air Entraining Admixtures (Sampling & Testing)	Take a one-quart sample using a clean, lined can or plastic bottle, if liquid. If powder, take a 2.5 lb. sample.	If the product is accepted based on a Certificate of Compliance, testing is not required. Take one sample per job. Prior to sampling, check with Caltrans (METS) for acceptable brands and dosage rates.	ASTM C233 AASHTO M154, T157, C260	If testing appears warranted, test for sulfates and chlorides. Admixtures with sulfates and chlorides greater than 1% should not be used*.
Water Reducers or Set Retarders (Sampling & Testing)	If liquid, take a 1-qt. sample using a clean plastic can. If powder, take a 2.5 lb. sample.	If the product is accepted based on a Certificate of Compliance, no testing is required. If not, test once per job. Prior to using this product, please check with Caltrans (METS) for acceptable brands and dosage rates.	ASTM C494 AASHTO M194	If testing appears warranted, test for sulfates and chlorides. Admixtures with sulfates and chlorides greater than 1% should not be used*.
Freshly-Mixed Concrete (Sampling)	Approx. 150-lb./ (or 1 cu. ft.) near mixer discharge.	When tests are required, take at least one sample for each 500 to 1000 cu. yd. of PCC/HCC.	ASTM C172, C685 CT 539 AASHTO T141, M157	This describes a method to sample freshly-mixed concrete.
Freshly-Mixed Concrete (Testing)	Approx. 150-lb./ (or 1 cu. ft.) near mixer discharge.	On projects with 500 cu. yd., or more, test at least one sample per job.	ASTM C143 AASHTO T119	This test determines the slump of the freshly-mixed concrete.
Freshly-Mixed Concrete (Testing)	Approx. 150-lb./ (or 1 cu. ft.) near mixer discharge.	On projects with 500 cu. yd., or more, test at least one sample per job.	ASTM C360 CT 533	This test determines the ball penetration of the freshly-mixed concrete.
Freshly-Mixed Concrete (Testing)	Approx. 150-lb./ (or 1 cu. ft.) near mixer discharge.	On projects with 500 cu. yd., or more, test at least one sample per job.	ASTM C231 CT 504 AASHTO T152	This test determines the air content of freshly-mixed concrete (pressure method).
Freshly-Mixed Concrete (Testing)	Approx. 150-lb./ (or 1 cu. ft.) near mixer discharge.	On projects with 500 cu. yd., or more, test at least one sample per job.	ASTM C138 CT 518 AASHTO T121	This test determines the unit weight of freshly-mixed concrete.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Portland Cement Concrete (Hydraulic Cement Concrete) – continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Freshly-Mixed Concrete (Testing)	Approx. 150-lb./ or 1 cu. ft.) near mixer discharge.	Fabricate at least two concrete cylinders per project. Test for comprehensive strength at least once for each 500 to 1,000 cu. yd. of structural concrete.	ASTM C39 CT 521 AASHTO T22	This test is used to fabricate 6" x 12" concrete cylinders. Compressive strengths are determined, when needed.
Freshly-Mixed Concrete (Testing)	Approximately 210 lb. of concrete are needed to fabricate three concrete beams.	One sample set for every 500 to 1,000 cu. yd. of concrete.	ASTM C78 CT 31 AASHTO T97 & T23	This test is used to determine the flexural strength of simple concrete beams in third-point loading.

Soils and Aggregates

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Aggregate (Sampling)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D75 CT 125 AASHTO T2	This test describes the procedures to sample aggregate from the belt or hopper (random basis).
Fine Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM C128 CT 208 AASHTO T84	This test determines the apparent specific gravity of fine aggregates for bituminous mixes, cement treated bases and aggregate bases.
Fine Aggregate (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM C128 CT 207 AASHTO T84	This test determines the bulk specific gravity (SSD) and the absorption of material passing the No. 4 sieve.
Coarse Aggregate (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	CT 206	This test determines the cleanness of coarse aggregate.

ATTACHMENT NO. 1
(continued)

Soils and Aggregates – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Coarse Aggregate (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM C127 CT 227 AASHTO T85	This test determines the specific gravity and absorption of coarse aggregate (material retained on the No. 4 sieve).
Soils and Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM C136 CT 202 AASHTO T27	This test determines the gradation of soils and aggregates by sieve analysis.
Soils and Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D2419 CT 217 AASHTO T176	This test determines the Sand Equivalent of soils and aggregates.
Soils and Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM C117 AASHTO T11	This test determines the gradation for materials finer that the No. 200 sieve (by washing method).
Soils and Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D3744 CT 229 AASHTO T210	This test determines the Durability Index of soils and aggregates.
Soils and Aggregates (Testing)	One 50-lb. sample	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D2844 CT 301 AASHTO T190	This test determines the Resistance Value (R-) and expansion pressure of compacted materials.
Soils and Aggregates (Testing)	One random location for every 2,500 sq. ft.	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D2922 CT 231 AASHTO T238	This test determines field densities using the nuclear gage.
Soils and Aggregates (Testing)	One random location for every 2,500 sq. ft.	Take one sample for every 500 to 1,000 tons of materials. Test at least one sample per project.	ASTM D3017 CT 231 AASHTO T239	This test determines the water content using the nuclear gage.

ATTACHMENT NO. 1
(continued)

Asphalt Binder

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Asphalt Binder (Sampling)	One 0.5-gal. sample placed in a clean, sealed can.	Sample once per job at the asphalt concrete plant.	CT 125 ASTM D 979 AASHTO T 168, T48	This procedure describes the proper method to sample the asphalt binder*.
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Sample once per job at the asphalt concrete plant.	ASTM D92, D117 AASHTO T 48	This test determines the flash point of the asphalt binder (by Cleveland open cup).
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D2872 & D92 CT 346 AASHTO T240 & T48	This test determines the rolling thin-film oven test (RTFO) *.
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D2042 AASHTO T44	This test determines the solubility of asphalt material in trichloroethylene*.
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D2171 AASHTO T202	This test determines the dynamic viscosity, (absolute viscosity of asphalt @ 140 degrees F by the Vacuum Capillary Viscometer Poises) *.
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D5 AASHTO T49	This test determines the penetration of bituminous material @ 77 degrees F and percentage of original penetration from the residue*.
Asphalt Binder (Testing)	One 0.5-gal. sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D113 AASHTO T51	This test determines the ductility of asphalt @ 77 degrees F*.
Asphalt Binder (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D2170 AASHTO T201	This test determines the kinematic viscosity of asphalt @ 275 degrees F (Centistoke) *.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Asphalt Binder – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Asphalt Binder (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D2171 AASHTO T202	This test determines the dynamic viscosity, (absolute viscosity of asphalt @ 140 degrees F by the Vacuum Capillary Viscometer Poises) *.
Asphalt Binder (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D36 AASHTO T53	This test determines the softening point of asphalt*.

Asphalt Emulsified

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Emulsified Asphalt (Sampling)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D140, D979 CT 125 AASHTO T 40, T168	This test describes the procedure to sample the emulsified asphalt*.
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D244 AASHTO T59	This test determines the sieve retention of emulsified asphalt*.
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D244 AASHTO T59	This test determines the weight per gallon of emulsified asphalt*.
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D244 AASHTO T59	This test determines the penetration of the emulsified asphalt*.
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D244 CT 330 AASHTO T59	This test determines the residue @ 325 degrees F evaporation of emulsified asphalt*.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Asphalt Emulsified – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D4402 AASHTO T201	This test determines the Brookfield viscosity*.
Emulsified Asphalt (Testing)	One 0.5-gal sample placed in a clean, sealed can.	Obtain one sample at the asphalt concrete plant for each 1,000 tons of asphalt concrete placed.	ASTM D88 AASHTO T72	This test determines the Saybolt-Furol viscosity of emulsified asphalt @ 77 degrees F (seconds) *.

Hot Mix Asphalt (Asphalt Concrete) – Concrete

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Asphalt Concrete (Sampling)	Obtain one 30-lb. sample each day of production.	Obtain one sample at the asphalt concrete plant for each 5,000 tons of asphalt concrete placed.	ASTM D75, D140, D979 CT 125 AASHTO T 40, T168	This test describes the procedure to sample the asphalt concrete.
Asphalt Concrete (Testing)	4” x 8” cores	Take one 4” x 8” core for every 500 ft of paved roadway.	ASTM D1188, D1560, D1561, D5361 CT 304 AASHTO T246, T247	This test determines the field density of street samples.
Asphalt Concrete (Testing)	Obtain one 30-lb. sample for each day of production.	Obtain one sample for every five cores taken.	ASTM D1188, D1560, D1561, D5361 CT 304 AASHTO T246, T247	This test determines the laboratory density and relative compaction of asphalt concrete.
Asphalt Concrete (Testing)	4” x 8” cores	Obtain one sample for every five cores taken.	ASTM D2726, D1188, D5361	This test determines the specific gravity of compacted bituminous mixture dense-graded or non-absorptive.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Hot Mix Asphalt (Asphalt Concrete) – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Asphalt Concrete (Testing)	One 30-lb. sample	Obtain one sample for every 1,000 tons of asphalt concrete.	ASTM D1559 AASHTO T245	This test determines the resistance to plastic flow of prepared mixes as determined by the Marshall Method.
Asphalt Concrete (Testing)	One 30-lb. sample	Obtain one sample for every 1,000 tons of asphalt concrete.	ASTM C117, D2172 (use Method B) ASHTO T164	This test determines the screen analysis of aggregates recovered from asphalt materials.
Geotextile Fabric (Placed under the Asphalt Concrete) (Testing)	One 12-ft. x 3-ft. sample	Obtain one sample per job.	ASTM D4632 AASHTO M288	This test determines the weight per sq. yd. and grabs strength of geotextile fabrics*.
Asphalt Concrete (Testing)	Sample any test location (random basis)	Obtain one sample for every 1,000 tons of asphalt concrete.	ASTM D2950 CT 375	This test determines the nuclear field density of in-place asphalt concrete.
Asphalt Concrete (Testing)	One 10-lb. sample	Obtain one sample during every day of production.	ASTM D1560, D1561 CT 366 AASHTO T246, T247	This test determines the stability value of asphalt concrete.
Slurry Seals (Sample)	One 0.5-gal. sample in a clean, dry plastic container.	Obtain one sample per truck.	ASTM D979 CT 125 AASHTO T 40, T168	This test describes the procedure for sampling the slurry seal.
Aggregate for Slurry Seals (Testing)	One 30-lb. sample	Obtain at least one sample per project from the belt or hopper or stockpile and test for Sand Equivalent	ASTM D2419 CT 217 AASHTO T176	This test determines the Sand Equivalent of aggregates.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 1
(continued)

Slurry Seals

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Aggregate for Slurry Seals (Testing)	One 30-lb. sample	Obtain at least one sample per project from the belt, hopper, or stockpile and test for sieve analysis of fine sand.	ASTM C117 AASHTO T11	This test determines the sieve analysis of fine sand (gradation of materials finer than No. 200 sieve by wash grading).
Slurry Seals (Testing)	One 0.5-gal. sample in a clean, dry, plastic container.	Test one sample per project and test for Abrasion.	ASTM D3910	This test determines the Wet Track Abrasion Test (2) (WTAT) *.

Steel

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description or Comments
Steel Strand (Testing)	Sample strand at various sizes.	This item may be accepted using a Certificate of Compliance. Sample and test at least two steel strands per job when a Certificate of Compliance is not used.	ASTM A370, A416, E328 AASHTO T244	This test determines the tensile strength of uncoated seven-wire stress-relieved strand for pre-stressed concrete*.
Steel Rebar (Testing)	Sample rebar at various sizes.	This item may be accepted using a Certificate of Compliance. Sample and test at least two steel rebar per job when a Certificate of Compliance is not used.	ASTM A615, A370 AASHTO T244	This test determines the steel reinforcement bar tensile strength and bend capability.

* This sampling and/or testing requirements only apply when required in the Contract Documents.

ATTACHMENT NO. 2

SOURCE INSPECTION REQUEST

SAMPLE COVER MEMO
SOURCE INSPECTION REQUEST
FROM LOCAL AGENCY to
CALTRANS' DISTRICT LOCAL ASSISTANCE ENGINEER
(Prepared By Applicant On Applicant Letterhead)

To: (name)
Caltrans' District Local Assistance Engineer
Caltrans' Local Assistance Office
(district office address)

Date: _____

Federal-aid Project Number: (if one has been assigned) _____
Project Description: _____
Project Location: _____
_____

Subject: ***(Source Inspection for Project Name, County)***

We are requesting that Caltrans provide Source Inspection (reimbursed) services for the above mentioned project. We understand we are responsible for paying for this service provided for by the State. Listed below are the materials for which we are requesting Caltrans' Source Inspection (reimbursed) services.

Materials that will require source inspection:

_____
_____
_____
_____
_____

Justification for request: (Based on the requirements in Section 16.14 under "Source Inspection") _____

_____
_____

Any question you might have about the above materials should be directed to: _____ , at (phone #) _____.

Approved:

_____ _____
(***Applicant Representative Name***) District Local Assistance Engineer

_____ _____
(***Title***) (Date)

_____
(Local agency, name & address)

ATTACHMENT NO. 3

CONSTRUCTION MATERIALS ACCEPTED BY A CERTIFICATE OF COMPLIANCE

ATTACHMENT NO. 3

CONSTRUCTION MATERIALS ACCEPTED BY A CERTIFICATE OF COMPLIANCE *

Soil Amendment
Fiber
Mulch
Stabilizing emulsion
Plastic Pipe
Lime
Reinforcing Steel
Structural Timber and Lumber
Treated Timber and Lumber
Timber and Lumber
Culvert and Drainage Pipe Joints
Reinforced Concrete Pipe
Corrugated Steel Pipe and Corrugated Steel Pipe Arches
Structural Metal Plate Pipe Arches and Pipe Arches
Perforated Steel Pipe
Polyvinyl Chloride Pipe and Polyethylene Tubing
Steel Entrance Tapers, Pipe Down drains, Reducers, Coupling Bands and Slip Joints
Aluminum Pipe
(Entrance Tapers, Arches, Pipe Down drains, Reducers, Coupling Bands and Slip Joints)
Metal Target Plates
Electrical Conductors
Portland Cement
Minor Concrete
Waterstop

*If Caltrans Standard Specifications May 2006 is part of contract specifications.

Notes:

1. Usually these items are inspected at the site of manufacture or fabrication and re-inspected after delivery to the job site.
2. The above list is not all inclusive. City of Holtville reserves the right to request additional Certificate of Compliance Statements for any other material at its discretion.

ATTACHMENT NO. 4

EXAMPLE OF A VENDOR'S CERTIFICATE OF COMPLIANCE

ATTACHMENT NO. 4

EXAMPLE OF A VENDOR'S CERTIFICATE OF COMPLIANCE

No. 583408

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
VENDOR'S CERTIFICATE OF COMPLIANCE
MR-0543 (REV. 5/93) #CT-7541-6020-2

☐ PRECAST CONCRETE PRODUCTS OR ☒ SOUNDWALL

TO: BILL SYNDER
~~STATE HIGHWAY ENGINEER~~
RESIDENT ENGINEER – CITY OF FLATLAND

We certify that the portland cement, chemical and mineral admixtures contained in the material described below are brands stated and comply with specifications for:

CONTRACT NUMBER:	
CEMENT BRAND: XYZ CEMENT CO. / TYPE: II MODIFIED	MILL LOCATION: MIDLAND, CALIFORNIA

CHEMICAL ADMIXTURE

1. BRAND: ABC ADMIXTURE / TYPE: WATER REDUCER	MANUFACTURER: XYZ SUPPLIER
2. BRAND / TYPE:	MANUFACTURER:

☐ *CHECK BOX IF A CHEMICAL ADMIXTURE WAS NOT USED*

MINERAL ADMIXTURE

MANUFACTURER: POZZ. INC.	CLASS: F

☐ *CHECK BOX IF A MINERAL ADMIXTURE WAS NOT USED*

DELIVERY DATE *(Ready-Mix)*: 7/7/01	DATES OF FABRICATION *(Precast)*

LIST PRODUCTS TO WHICH CERTIFICATE APPLIES. *(Show size and lin. ft. of pipe, etc., delivery slip numbers for ready-mix.)*

Portland Cement
Flyash
Water Reducer

MANUFACTURER OF CONCRETE PRODUCTS: A.&B. READY MIX

By: AUTHORIZED REPRESENTATIVE SIGNATURE: Joe Anderson

FM 93 1839 — Original to Res. Engr. Retain Duplicate. — OSP 01 55624

ATTACHMENT NO. 4

EXAMPLE OF A CERTIFICATE OF COMPLIANCE FOR PORTLAND CEMENT (continued)

This is to certify that the

Portland Cement

Supplied by ABC Cement Company complies with all requirements for Type II Portland Cement when tested in accordance with ASTM C-494.

Local Agency Project No.
HP21L – 5055 – 111

Albert Howakowa
Quality Assurance Engineer
ABC Cement Company

Date: 07/07/07

ATTACHMENT NO. 5

EXAMPLES OF MATERIALS CERTIFICATES/EXEMPTIONS

ATTACHMENT NO. 5

EXAMPLES OF MATERIALS CERTIFICATES/EXCEPTIONS (SIGNED BY THE RESIDENT ENGINEER AT THE COMPLETION OF THE PROJECT)

Federal – Aid Project No. Project HP21L – 5055 - 111

Subject: Materials Certification

This is to certify that the results of the tests on acceptance samples indicate that the materials incorporated in the construction work and the construction operations controlled by sampling

☐ And testing were in conformity with the approved plans and specifications.

☐ All materials exceptions to the plans and specifications on this project are noted below.

No exceptions were found to the plans and specifications on this project.

Bill Sanders	/s/ *Bill Sanders*	7/07/07
Resident Engineer (Print Name)	**Resident Engineer (Signature)**	**(Date)**

Note: The signed original of this certificate is placed in the Resident Engineer's project files and one copy is mailed to the DLAE and filed under "Report of Expenditures".

See the attachment (next page)

ATTACHMENT NO. 5
(continued)

Attachments: Materials Exceptions (Acceptance Testing)

Type of Test	Description of Work	Total Tests Performed on the Project	Number of Failed Tests	Action Taken
Slump Test	Concrete Sidewalk	8	1	When the measured slump exceeded the maximum limit, the entire concrete load was rejected
Sand Equivalent	Aggregate for Structural Concrete	10	1	The tested S.E. was 70 and the contract specification was 71 minimum. However, the concrete 28-day compressive strength was 4800 psi. The concrete was considered adequate and no materials deductions were taken
Compaction	Sub grade Material	12	1	One failed test was noted. The failed area was watered and reworked. When this was completed, a retest was performed. The retest was acceptable.
Compaction	Hot Mix Asphalt	12	1	One failed test was noted. It was reworked and retested. The second test met specifications.

Bill Sanders — **Resident Engineer (Print Name)**

/s/ *Bill Sanders* — **Resident Engineer (Signature)**

July 4, 2007 — **(Date)**

ATTACHMENT NO. 6

EXAMPLE OF A LOG SUMMARY SHEET

ATTACHMENT NO. 6

EXAMPLE OF A LOG SUMMARY SHEET

Subgrade Materials

Date	CT	Station	Elevation	Test Results	Minimum Spec.	Passed or Failed	Action Taken
5/15/07	231	1 + 00 (30' L)	99.00	93	90 or greater	Passed	N/A
5/16/07	231	1 + 50 (20' R)	100.50	94	90 or greater	Passed	N/A
5/17/07	231	2 + 25 (25' R)	101.00	96	90 or greater	Passed	N/A
5/18/07	231	1 + 50 (30' L)	101.50	95	95 or greater	Passed	N/A
5/19/07	231	2 + 50 (20' L)	102.00	92 *	95 or greater	Failed	See Note 1
5/19/07	231	2 + 50 (20' L)	102.00	95	95 or greater	Passed	N/A

CT 231 = Compaction (Nuclear Gage)

*Note 1: The Contractor used a water tank to dampen the soil surface at the failed subgrade location. Using a sheep's foot compactor, he reworked the subgrade (making at least 10 passes) from Station 2+ 00 to Station 3+ 00. After approximately 30 minutes, another compaction test was taken. This time the relative compaction was 95.

Aggregates and Base Materials

Date	CT	Station	Elevation	Test Results	Minimum Spec.	Passed or Failed	Action Taken
6/20/07	202	1 + 00 (10'R)	102.50	See data sheet	See data sheet	Passed	N/A
6/20/07	202	2 + 00 (20'L)	102.50	See data sheet	See data sheet	Passed	N/A
6/22/07	217	1 + 00 (10' R)	102.50	75	25 or greater	Passed	N/A
6/22/07	217	2 + 00 (20' L)	102.50	83	25 or greater	Passed	N/A
6/20/07	227	1 + 00 (20' R)	102.50	86	71 or greater	Passed	N/A
6/20/07	227	1 + 50 (20' L)	102.50	85	71 or greater	Passed	N/A
6/24/07	231	2 + 00 (20' R)	102.50	98	95 or greater	Passed	N/A
6/24/07	231	2 + 50 (20' L)	102.50	97	95 or greater	Passed	N/A

CT 202 = Sieve Analysis CT 217 = Sand Equivalent CT 227 = Cleanness Value
CT 231 = Compaction (Nuclear Gage)

ATTACHMENT NO. 6
(continued)

Hot Mix Asphalt

Date	CT	Station	Elevation	Test Results	Minimum Spec.	Passed or Failed	Action Taken
7/10/07	339	1 + 00 (10' R)	103.00	0.08 gal/ sq yd	0.05 – 0.10 gal/sq yd	Passed	N/A
7/10/07	366	2 + 00 (20' L)	103.00	32	>23	Passed	N/A
7/10/07	366	1 + 00 (10' R)	103.00	41	>23	Passed	N/A
7/10/07	375	2 + 00 (20' L)	103.00	94	RC = 93 to 97	Passed	N/A
7/15/07	375	1 + 00 (20' R)	103.00	96	RC = 93 to 97	Passed	N/A
7/15/07	375	1 + 50 (20' L)	103.00	95	RC = 93 to 97	Passed	N/A

CT 339 = Distributor Spread Rate, CT 366 = Stabilometer Value
CT 375 = In-Place Density & Relative Compaction

Portland Cement Concrete

Date	CT	Station	Elevation	Test Results	Minimum Spec.	Passed or Failed	Action Taken
9/25/07	504	10 + 50 (50' R)	102.50	6.5%	>6.0%	Passed	N/A
9/25/07	533	12 + 50 (50' R)	102.50	1.5"	<2"	Passed	N/A
9/25/07	518	11 + 50 (50' R)	102.50	151 lb/cu ft	> 145 lb/cu ft	Passed	N/A
9/25/07	521	10 + 50 (50' R)	102.50	28 day = 4200 psi	>3800 psi	Passed	N/A
9/28/07	521	11 + 50 (50' R)	102.50	28 day = 4290 psi	>3800 psi	Passed	N/A
9/30/07	521	12 + 50 (50'R)	102.50	28 day = 4160 psi	>3800 psi	Passed	N/A

CT 504 = Air Content, CT 518 = Unit Weight CT 521 = Compressive Strength
CT 533 = Ball Penetration