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Caltrans District Local Assistance Engineer (DLAE) certifies that this form  
has been reviewed for completeness:

\_\_\_\_\_  
28. DLAE Name (Print)

\_\_\_\_\_  
29. DLAE Signature

\_\_\_\_\_  
30. Date

\_\_\_\_\_  
17. Preparer's Title

\_\_\_\_\_  
18. Date

\_\_\_\_\_  
19. (Area Code) Tel. No.

**Distribution:** (1) Copy – Email a copy to the Caltrans District Local Assistance Engineer (DLAE) within 30 days of contract award. Failure to send a copy to the DLAE within 30 days of contract award may result in delay of payment.

(2) Copy – Include in award package sent to Caltrans DLAE

(3) Original – Local agency files

## INSTRUCTIONS - CONSULTANT CONTRACT AWARD DBE INFORMATION

### Consultant Section

*The Consultant shall:*

1. **Local Agency Name** – Enter the name of the local or regional agency that is funding the contract.
2. **Project Location** - Enter the project location as it appears on the project advertisement.
3. **Project Description** - Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc).
4. **Total Contract Award Amount** - Enter the total contract award dollar amount for the prime consultant.
5. **Consultant Name** - Enter the consultant's firm name.
6. **Contract DBE Goal %** - Enter the contract DBE goal percentage, as it was reported on the Exhibit 10-I *Notice to Proposers DBE Information* form. See LAPM Chapter 10.
7. **Total Dollar Amount for all Subconsultants** – Enter the total dollar amount for all subcontracted consultants. SUM = (DBE's + all Non-DBE's). Do **not** include the prime consultant information in this count.
8. **Total number of all subconsultants** – Enter the total number of all subcontracted consultants. SUM = (DBE's + all Non-DBE's). Do **not** include the prime consultant information in this count.
9. **Description of Services to be Provided** - Enter item of work description of services to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
10. **DBE Firm Contact Information** - Enter the name and telephone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and telephone number, if the prime is a DBE.
11. **DBE Cert. Number** - Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened. (DBE subcontracted consultants should notify the prime consultant in writing with the date of the decertification if their status should change during the course of the contract.)
12. **DBE Dollar Amount** - Enter the subcontracted dollar amount of the work to be performed or service to be provided. Include the prime consultant if the prime is a DBE, and include DBEs that are not identified as subconsultants on the Exhibit 10-O1 *Consultant Proposal DBE Commitment* form. See LAPM Chapter 9 for how to count full/partial participation.
13. **Total Dollars Claimed** – Enter the total dollar amounts for column 13.
14. **Total % Claimed** – Enter the total DBE participation claimed for column 13. SUM = (item "14. Total Participation Dollars Claimed" divided by item "4. Total Contract Award Amount"). If the Total % Claimed is less than item "6. Contract DBE Goal", an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H *DBE Information - Good Faith Efforts of the LAPM*).
15. **Preparer's Signature** – The person completing this section of the form for the consultant's firm must sign their name.
16. **Preparer's Name (Print)** – Clearly enter the name of the person signing this section of the form for the consultant.
17. **Preparer's Title** - Enter the position/title of the person signing this section of the form for the consultant.
18. **Date** - Enter the date this section of the form is signed by the preparer.
19. **(Area Code) Tel. No.** - Enter the area code and telephone number of the person signing this section of the form for the consultant.

### Local Agency Section:

*The Local Agency representative shall:*

20. **Local Agency Contract Number** - Enter the Local Agency Contract Number.
21. **Federal-Aid Project Number** - Enter the Federal-Aid Project Number.
22. **Contract Execution Date** - Enter the date the contract was executed and Notice to Proceed issued. See LAPM Chapter 10, page 23.
23. **Local Agency Representative Name (Print)** - Clearly enter the name of the person completing this section.
24. **Local Agency Representative Signature** - The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
25. **Date** - Enter the date the Local Agency Representative signs the form.
26. **Local Agency Representative Title** - Enter the position/title of the person signing this section of the form.
27. **(Area Code) Tel. No.** - Enter the area code and telephone number of the Local Agency representative signing this section of the form.

### Caltrans Section:

*Caltrans District Local Assistance Engineer (DLAE) shall:*

28. **DLAE Name (Print)** – Clearly enter the name of the DLAE.
  29. **DLAE Signature** – DLAE must sign this section of the form to certify that it has been reviewed for completeness.
  30. **Date** - Enter the date that the DLAE signs this section the form.
-

**ATTACHMENT 2**  
**SAMPLE SCOPE OF SERVICES**

A. PURPOSE OF WORK

The City undertakes a limited number of private development and/or capital road improvement projects each year, using a variety of private, local, state and federal funding sources. Because the City does not have the in-house facilities or staff to complete the following services, the successful firm will have the capability to perform professional and technical services required to support the City in the development and construction of projects, on an “as-needed” basis.

The on-call quality assurance material testing work consists, in general, of performing Caltrans standard field and laboratory testing to evaluate the construction contractor’s compliance with the project specifications. ***For all testing work on federal and state aided projects, the laboratory and testing personnel must be certified by the Caltrans Independent Assurance Program.***

The on-call road structure evaluation and design work consists, in general, of performing field and laboratory testing necessary to evaluate the remaining service life of an existing road’s structural section. The results of this work may be used by City staff in pavement design work. If specialized geotechnical analysis is requested by the City, this work may also include the preparation of a design report by a licensed geotechnical or civil engineer, with recommendations for rehabilitation alternatives.

Other geotechnical, design, and construction assistance services related to the tasks described above may also be required, as agreed to in writing by the City Engineer.

B. LOCATION OF WORK

Field work will be performed at various road and bridge construction sites in the unincorporated County, or material supply sites throughout the region. Laboratory testing will be performed at the consultant’s facilities.

C. REQUIRED SERVICES

All work under this task shall be performed in accordance with the directives given by the City Contract Administrator, or designee.

For each project where services under this contract are required, the City will issue a Work Order (WO) and shall request that the consultant prepare a Proposal. The Contract Administrator shall confer with the consultant to identify and refine the scope of services required. The Proposal shall detail the tasks required for a particular project, the schedule, and projected costs. The costs will be based on the specified rates of compensation in the contract. The City Contract Administrator shall confer with the consultant to establish the maximum fee, including expenses, for the specific project, and to establish the completion date. Consultant will only perform work that is assigned in an authorized WO, and award of a contract does not guarantee that any WO will be issued. Work shall not begin until a WOF has been approved by the City Contract Administrator and/or City Engineer.

*TASK 1 – ON-CALL QUALITY ASSURANCE TESTING SERVICES*

- a. Quality assurance materials sampling and testing work consists of performing Caltrans or ASTM test methods to evaluate a construction contractor's compliance with the project specifications.
- b. The range of tests that may be required for City's projects, typically include one or more of the following:

Direct Shear Test (at Natural Moisture--One Point)  
Direct Shear Test (Saturated and Consolidated--One Point)  
Direct Shear Test (Remolded, Saturated and Consolidated--Three Points)  
Consolidation Test (Without Rate Data)  
Consolidation Test-Rate Data on Single Load Increment  
Unconfined Compression Test (Tube Samples)  
Unit Dry Weight-Moisture Content (Undisturbed Samples)  
Moisture Content  
Specific Gravity - Fine Grain (ASTM D854)  
Specific Gravity - Bulk Soils (ASTM C97)  
Maximum Dry Density-Optimum Moisture (AASHTO T-99, ASTM D698)  
Maximum Dry Density-Optimum Moisture (AASHTO T-180, ASTM D1557)  
Maximum Dry Density-Optimum Moisture (CTM 216)  
Grain Size Analysis (ASTM C136)  
Grain Size Analysis-Wet Sieve (Coarse or Fine Series - CTM 202)  
Wash-Minus 200 Sieve (ASTM D1140)  
Hydrometer Grain Size Analysis (ASTM D422)  
Sand Equivalent (CTM 217)  
Plasticity Index (Includes Liquid & Plastic Limits - ASTM D4318)  
Shrinkage Limit  
Expansion Test (Undisturbed Samples)  
Expansion Index Test (Remolded - UBC 29-2)  
Corrosivity Test (pH/Minimum Resistivity - CTM 643)  
Corrosivity Test (CTM 532)  
Resistance Value (CTM 301)  
Los Angeles Abrasion Test  
Durability Index (Coarse and Fine - CTM 229F)  
Triaxial Compression (Unconsolidated, Undrained)  
Triaxial Compression (Consolidated, Undrained)  
Permeability (Fixed Wall)  
Permeability (Flexible Wall)  
Concrete Cylinder Compression (Break or Hold)



Compressive Strength, Cast Cylinders (C39)  
Compressive Strength, Cores (C42)  
Sodium/Magnesium Sulfate Soundness (ASTM D5240)  
Stabilometer Value (CTM366)  
Bitumen Content, Ignition Furnace (CTM310, CTM382)  
Bitumen Content (ASTM D2172)  
Unit Weight of Compacted Asphalt (ASTM D2726)  
Marshall Compaction, set of 3 (ASTM D1559)  
Marshall Flow and Stability, per point (ASTM D1559)  
Maximum Theoretical Specific Gravity (ASTM D2041)  
Moisture Content of Soil and Rock by Mass (ASTM D2216)  
Percentage of Crushed Particles (CT 205)  
L.A. Rattler (CT 211)  
Bulk Specific Gravity and Density (CT 308)  
Theoretical Maximum Specific Gravity and Density (CT 309)  
Field Compaction Testing (CT 375)  
Method of Tests for Mechanical and Welded Reinforcing Steel Splices (CT 670)  
Full Depth Recycling Strength Testing  
AWS Certified Welding Inspector (CWI)  
Nondestructive Testing (NDT) Technician certified in conformance with the requirements of the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A

Deliverables:

As agreed upon by City and consultant in a WO for each project.

Schedule:

As agreed upon by City and consultant in a WO for each project.

Method of Payment:

Since material sampling and testing is an item of work, which is similar, repetitious and measurable, the Consultant will be paid based on specific item of work performed (cost per unit of work) in accordance with the Rate Schedule in the Contract.

*TASK 2 - OTHER ON-CALL GEOTECHNICAL SERVICES*

Geotechnical engineering and technical services required to support the City in the development and construction of City projects, on an "as-needed" basis. A couple of examples are: 1) roadway structural analysis and design recommendations; and 2) peer review of city or developer roadway design; and 3) environmental site assessments (Ph I and II).

Deliverables:

As agreed upon by City and consultant in a WO for each project.

Schedule:

As agreed upon by City and consultant in a WO for each project.

Method of Payment:

The Consultant will be paid at an agreed not to exceed fee based on a breakdown by line-item tasks.

## ATTACHMENT 3

### SOQ CONTENT AND FORMAT

SOQs submitted for the requested services described in the RFQ must meet the following criteria to be considered for this project:

- 1. Transmittal Letter:** The letter shall state the names of the Project Manager and subconsultants, if any, that will perform the work including responsibilities of each. The letter shall include a statement regarding any conflicts of interest, and shall be signed by a Principal of the firm.
- 2. Approach to Work:** Using the Scope of Services as a guide, describe firm's experience with similar on-call work with a public agency, and the firm's typical managerial approach to this type of work. Describe the firm's operations in sufficient detail to present the proposed method of approach to meet the objectives of the work. Discuss any unique ideas/concerns relating to the services.
- 3. Specialized Experience and Qualifications:** Indicate experience gained from recent work similar to the proposed on-call services. A list of current and past work on similar projects, staff who worked on these projects and corresponding client's names, titles, email addresses, and phone numbers are to be included. Describe the qualifications and availability of staff and other professional, technical, and administrative resources which will be used to perform the work. Provide a list of all laboratory and field testing and Caltrans certification, segregating tests to be performed by any subconsultant.
- 4. Project Team:** List of personnel available to the City along with their roles and responsibilities for the on-call services. Resumes shall be limited to one page per person, and shall include dates of degrees, professional certifications, and laboratory certifications, dates, titles and location of relevant employment, and specific accomplishments relevant to the scope of work. Include an organizational chart of personnel. The City of Colfax reserves the right to approve consultant's project manager and any requested personnel and subconsultant changes during the course of the project.
- 5. Familiarity with state and federal procedures:** Describe the firm's experience on state or federally funded projects. Describe the status or provide a copy of any Indirect Cost Rate Evaluation, Cognizant Letter of Approval or audit report on a prior Caltrans or local agency contract for the Consultant and all subconsultants.
- 6. References:** Provide at least three, but no more than five, references (public agencies preferred) who can comment on the past performance of the firm and key staff, on providing services comparable to the proposed work, which was completed within the last five years.

The SOQ shall be no longer than the following page lengths:

Letter of transmittal:	2 pages
Sections 2-6 Descriptions:	20 pages (double sided)
Figures and illustrations:	5 pages

## ATTACHMENT 4

### SELECTION CRITERIA

The selection committee shall review the SOQs and select the most qualified consultants for further evaluation. The selection of the most qualified consultants shall be based solely on the information provided in the SOQ.

#### Evaluation Criteria:

**1. Understanding of the work to be done (25pts)**

The consultant's understanding of the work described in the RFQ and their role in construction quality assurance on agency projects.

**2. Experience with similar kinds of work (20pts)**

The consultant's experience directly relating to the services described in the RFQ and evidence of ability to complete the work to a high standard, within schedule, and on budget.

**3. Quality of staff for work to be done (15pts)**

The education, training, and commitment of personnel (Project Manager, Project Engineer(s), Lead Discipline Engineers, Field and lab testing staff, and sub-consultants) and their experience in the areas assigned.

**4. Capability of developing innovative or advanced techniques (10pts)**

This includes the approach to the project scope outlined in the RFQ, the understanding of the project scope, level of effort, schedule of work, proposed project management, and unique/creative technical approaches, in particular with regards to full depth reclamation techniques.

**5. Familiarity with state and federal procedures (10pts)**

The consultant's demonstrated familiarity with Caltrans certification of field and laboratory methods, certified personnel and the scope of their test certification, consultant's familiarity and compliance with prevailing wage laws and certification requirements.

**6. Financial Responsibility (10pts)**

The consultant's demonstrated understanding of, and the compliance of its financial management and accounting system with, the cost principles of the Federal Acquisition Regulations of Title 48, Code of Federal Regulations (CFR) Part 31, 48 CFR Part 16.301-3, and 49 CFR Part 18. The consultant's and subconsultant's experience with indirect cost rate audits related to the above, and ability to execute the Consultant Certification of Contract Costs prior to award of contract. (Attachment 7)

**7. Demonstrated Technical Ability (10pts)**

The consultant's ability to utilize geotechnical principles to solve technical problems that arise on road and bridge projects.

## ATTACHMENT 5

Local Assistance Procedures Manual

EXHIBIT 10-K  
Consultant Certification of Costs and Financial Management System

### EXHIBIT 10-K CONSULTANT CERTIFICATION OF CONTRACT COSTS AND FINANCIAL MANAGEMENT SYSTEM

*(Note: If requesting to utilize the Safe Harbor Indirect Cost Rate submit Attachment 1 of  
DLA-OB 13-07 - Safe Harbor Indirect Cost Rate for Consultant Contracts found at  
[http://www.dot.ca.gov/hq/LocalPrograms/DLA\\_OB/DLA\\_OB.htm](http://www.dot.ca.gov/hq/LocalPrograms/DLA_OB/DLA_OB.htm) in lieu of this form.)*

#### Certification of Final Indirect Costs:

Consultant Firm Name: \_\_\_\_\_

Indirect Cost Rate: \_\_\_\_\_

Fiscal Period Covered for Indirect Cost Rate Developed (mm/dd/yyyy to mm/dd/yyyy): \_\_\_\_\_

Date of Proposal Preparation (mm/dd/yyyy): \_\_\_\_\_

I, the undersigned, certify that I have reviewed the proposal to establish final indirect cost rates for the fiscal period as specified above and to the best of my knowledge and belief:

1. All costs included in this proposal to establish final indirect cost rates are allowable in accordance with the cost principles of the Federal Acquisition Regulations (FAR) of Title 48, Code of Federal Regulations (CFR), Part 31.
2. This proposal does not include any costs which are expressly unallowable under the cost principles of the FAR of 48 CFR, Part 31.

All known material transactions or events that have occurred affecting the firm's ownership, organization, and indirect cost rates have been disclosed as of the date of proposal preparation noted above.

#### Certification of Financial Management System:

I, the undersigned, certify to the best of my knowledge and belief that our financial management system meets the standards for financial reporting, accounting records, internal and budget control as set forth in the FAR of Title 49, CFR, Part 18.20 to the extent applicable to Consultant.

#### Certification of Dollar Amount for all A&E contracts:

I, the undersigned, certify that the approximate dollar amount of all A&E contracts awarded by Caltrans or a California local agency to this firm within the last three (3) calendar years for all State DOT and Local Agencies is \$ \_\_\_\_\_ and the number of States in which the firm does business is \_\_\_\_\_.

#### Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are reasonable, allowable and allocable to the contract in accordance with the cost principles of the FAR of Title 48, CFR, Part 31. Allowable direct costs to a Government contract shall be:

1. Compliant with Generally Accepted Accounting Principles (GAAP) and standards promulgated by the Cost Accounting Standards Board (when applicable).

**Consultant Certification of Costs and Financial Management System**

- 2. Compliant with the terms of the contract and is incurred specifically for the contract.
- 3. Not prohibited by 23 CFR, Chapter 1, Part 172 –Administration of Engineering and Design Related Service Contracts to the extent requirements are applicable to Consultant.

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files.

**Subconsultants (if applicable)**

Proposed Contract Amount (or amount not to exceed if on-call contract): \$ \_\_\_\_\_

**Prime Consultants (if applicable)**

Proposed Total Contract Amount (or amount not to exceed if on-call contract): \$ \_\_\_\_\_

Prime, list all subconsultants and proposed subcontract dollar amounts (attach additional page if necessary):

_____	\$ _____
_____	\$ _____
_____	\$ _____
_____	\$ _____
_____	\$ _____

\* Consultant Certification Signature: \_\_\_\_\_

Consultant Certifying (Print Name and Title):

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Consultant Contact Information:

Email: \_\_\_\_\_

Phone number: \_\_\_\_\_

Date of Certification (mm/dd/yyyy): \_\_\_\_\_

\*An individual executive or financial officer of the consultant’s organization at a level no lower than a Vice President or Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the indirect cost rate proposal submitted in conjunction with the contract.

Note: Per 23 U.S.C. 112(b)(2)(B), Subconsultants must comply with the FAR Cost Principles contained in 48 CFR, Part 31. 23 CFR Part 172.3 Definitions state: Consultant means the individual or firm providing engineering and design related services as a party to the contract. Therefore, subconsultants as parties of a contract must complete a certification and send originals to A&I and keep copies in Local Agency Project Files.

Distribution: 1) Original to Caltrans Audits and Investigations  
2) Retained in Local Agency Project Files

## ATTACHMENT 6

The attached sample agreement is the City's standard contract.

The final agreement will incorporate the consultant's scope of services, responsibilities, deliverables, and costs, as negotiated prior to execution. Submittal of a SOQ constitutes an agreement to all provisions and conditions set forth in the Sample Agreement, unless noted otherwise in the SOQ.

If any firm submitting an SOQ requests changes to the Sample Agreement, the firm must include a list of all such requested changes in their SOQ. The City reserves the right to accept or reject any requested changes. The City will not accept any requested changes not included in the SOQ.

The successful consultant must agree that no information developed or gathered as part of this project will be released to any party without prior written approval of the City.

## ATTACHMENT 6

### AGREEMENT FOR CONSULTANT SERVICES

THIS AGREEMENT is made and entered into on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by and between the City of Colfax, a municipal corporation of the State of California (“City”) and \_\_\_\_\_ (“Consultant”).

#### RECITALS

A. The City desires to retain Consultant to provide the Services set forth in detail in Exhibit A hereto (the “Services”) subject to the terms and conditions of this Agreement.

B. Consultant is duly licensed and sufficiently experienced to undertake and perform the Services in a skilled and workmanlike manner and desires to do so in accordance with the terms and conditions of this Agreement.

Now, therefore, in consideration of the mutual covenants, promises and conditions set forth in this Agreement, the City and Consultant agree as follows:

#### **Section 1. Services.**

Subject to the terms and conditions set forth in this Agreement, Consultant shall furnish and perform all of the Services described in detail in Exhibit A hereto and incorporated herein by this reference (the “Services”) to the satisfaction of the City. Consultant shall not perform any work exceeding the scope of the Services described in Exhibit A without prior written authorization from the City.

#### **Section 2. Time of Completion.**

Consultant’s schedule for performance of the Services is set forth in Exhibit A hereto which is incorporated herein by this reference. Consultant shall commence performance of the Services promptly upon receipt of written notice from the City to proceed. Performance of the Services shall progress and conclude in accordance with the schedule set forth in Exhibit A. During the performance of the Services, Consultant shall provide the City with written progress reports at least once each month and at such additional intervals as City may from time to time request.

#### **Section 3. Compensation.**

A. Except as may otherwise be provided in Exhibit A or elsewhere in this Agreement or its exhibits, Consultant shall invoice City once each month for the Services performed during the preceding month. Such invoices shall itemize all charges in such detail as may reasonably be required by City in the usual course of City business but shall include at least (i) the date of performance of each of the Services, (ii) identification of the person who performed the Services, (iii) a detailed description of the Services performed on each date, (iv) the hourly rate at which the Services on each date are charged, (v) an itemization of all costs incurred and (vi) the total charges

for the Services for the month invoiced. As long as the Consultant performs the Services to the satisfaction of the City, the City shall pay the Consultant an all inclusive compensation that shall not exceed the amount as detailed in Exhibit A except pursuant to an authorized written change order issued pursuant to Section 15 of this Agreement before the Services requiring additional compensation are performed. City shall pay Consultant no later than thirty (30) days after approval of the monthly invoice by City's staff.

B. The Consultant's compensation for the Services shall be full compensation for all indirect and direct personnel, materials, supplies, equipment and services incurred by the Consultant and used in carrying out or completing the Services. Payments shall be in accordance with the payment schedule established in Exhibit A or elsewhere in this Agreement or its exhibits.

C. The City shall have the right to receive, upon request, documentation substantiating charges billed to the City pursuant to this Agreement. The City shall have the right to perform an audit of the Consultant's relevant records pertaining to the charges.

D. Any Services performed more than sixty (60) days prior to the date upon which they are invoiced to the City shall not be compensable.

#### **Section 4. Professional Ability; Standard of Quality.**

City has relied upon the professional training and ability of Consultant to perform the Services described in Exhibit A as a material inducement to enter into this Agreement. Consultant shall therefore provide properly skilled professional and technical personnel to perform all Services under this Agreement. All Services performed by Consultant under this Agreement shall be in a skillful, workmanlike manner in accordance with applicable legal requirements and shall meet the standard of quality ordinarily to be expected of competent professionals in Consultant's field of expertise.

#### **Section 5. Indemnification.**

Consultant shall hold harmless and indemnify, including without limitation the cost to defend, the City and its officers, agents and employees from and against any and all claims, demands, damages, costs or liability that arise out of, or pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant and/or its agents in the performance of the Services. This indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, arising from the sole negligence, willful misconduct or material defects in design by the City or its agents, servants employees or independent contractors other than Consultant who are directly responsible to the City, or arising from the active negligence of the City officers, agents, employees or volunteers

#### **Section 6. Insurance.**

Without limiting Consultant's indemnification obligations provided for above, Consultant shall take out before beginning performance of the Services and maintain at all times during the life of this Agreement the following policies of insurance with insurers possessing a Best rating of not less

than A. Consultant shall not allow any subcontractor, professional or otherwise, to commence work on any subcontract until all insurance required of the Consultant has also been obtained by the subcontractor.

- A. Workers' Compensation Coverage. Statutory Workers' Compensation insurance and Employer's Liability Insurance to cover its employees. In the alternative, Consultant may rely on a self-insurance program to meet its legal requirements as long as the program of self-insurance complies fully with the provisions of the California Labor Code. Consultant shall also require all subcontractors, if such are authorized by the City, to similarly provide Workers' Compensation insurance as required by the Labor Code of the State of California for all of the subcontractor's employees. All Workers' Compensation policies shall be endorsed with the provision that the insurance shall not be suspended, voided, or cancelled until thirty (30) days prior written notice has been provided to City by the insurer. The Workers' Compensation insurance shall also contain a provision whereby the insurance company agrees to waive all rights of subrogation against the City and its elected or appointed officials, officers, agents, and employees for losses paid under the terms of such policy which arise from the Services performed by the insured for the City.
  
- B. General Liability Coverage. General liability insurance, including personal injury and property damage insurance for all activities of the Consultant and its subcontractors, if such are authorized by the City, arising out of or in connection with the Services. The insurance shall be written on a comprehensive general liability form and include a broad form comprehensive general liability endorsement. In the alternative, the City will accept, in satisfaction of these requirements, commercial general liability coverage which is equivalent to the comprehensive general liability form and a broad form comprehensive general liability endorsement. The insurance shall be in an amount of not less than \$1 million combined single limit personal injury and property damage for each occurrence. The insurance shall be occurrence based insurance. General liability coverage written on a claims made basis shall not be acceptable absent prior written authorization from the City.
  
- C. Automobile Liability Coverage. Automobile liability insurance covering bodily injury and property damage for all activities of the Consultant arising out of or in connection with this Agreement, including coverage for owned, hired and non-owned vehicles, in an amount of not less than \$1 million combined single limit for each occurrence.
  
- D. Policy Endorsements. Each general liability and automobile liability insurance policy shall be endorsed with the following provisions:
  - 1. The City, and its elected or appointed officials, employees and agents shall be named as insureds or additional insureds with regard to damages and defenses of claims arising from activities performed by or on behalf of the Consultant.
  
  - 2. The insurance afforded by each policy shall apply separately to each insured who is seeking coverage or against whom a claim is made or a suit is brought, except with respect to the insurer's limits of liability.

3. The insurance shall be primary insurance as respects the City and its elected or appointed officers, officials, employees and agents. Any other insurance maintained by the City or its elected or appointed officers, officials, employees, agents or volunteers shall be in excess of this insurance and shall not contribute with it.
  4. The insurance shall not be suspended, voided, cancelled, or reduced in coverage or in limits except after thirty (30) days prior written notice has been provided to the City.
  5. Any failure to comply with the reporting requirements of any policy shall not affect coverage provided to the City, its elected or appointed officers, officials, employees, or agents.
- E. Professional Liability Coverage. If required by the City, Consultant shall also take out and maintain professional liability, errors and omissions insurance in an amount not less than \$1 million. The professional liability insurance policy shall be endorsed with a provision stating that it shall not be suspended, voided, cancelled, or reduced in coverage or in limits except after thirty (30) days written notice has been provided to the City.
- F. Insurance Certificates and Endorsements. Prior to commencing the Services under this Agreement, Consultant shall submit to the City documentation evidencing the required insurance signed by the insurance agent and the companies named. This documentation shall be on forms which are acceptable to the City and shall include all required endorsements and verify that coverage is actually in effect. This Agreement shall not be effective until the required insurance forms and endorsements are submitted to and approved by the City. Failure to provide these forms within the time period specified by City may result in the award of this Agreement to another Consultant should the City, in its sole discretion, decide to do so. Current certification of insurance shall be kept on file with the City at all times during the term of this Agreement.
- G. Deductible and Self-Insured Retentions. Any deductibles or self-insured retentions must be declared to and approved by City.
- H. Termination of Insurance. If the City receives notification that Consultant's insurance will be suspended, voided, cancelled or reduced in coverage or in limits, and if the Consultant does not provide for either the reinstatement of that insurance or for the furnishing of alternate insurance containing all of the terms and provisions specified above prior to the termination of that insurance, City may either terminate this Agreement for that breach, or City may secure the required insurance to satisfy the conditions of this Agreement and deduct the cost thereof from compensation which would otherwise be due and payable to the Consultant for Services rendered under the terms of this Agreement.

#### **Section 7. Subcontracts.**

Consultant may not subcontract any portion of the Services without the written authorization of City. If City consents to a subcontract, Consultant shall be fully responsible to the City and third parties for all acts or omissions of the subcontractor to which the Services or any portion thereof are

subcontracted. Nothing in this Agreement shall create any contractual relationship between City and any subcontractor, nor shall it create any obligation on the part of the City to pay or cause the payment of any monies due to any such subcontractor except as otherwise is required by law.

#### **Section 8. Assignment.**

Consultant shall not assign any right or obligation under this Agreement without the City's prior written consent. Any attempted assignment of any right or obligation under this Agreement without the City's prior written consent shall be void.

#### **Section 9. Entire Agreement.**

This Agreement represents the entire understanding of City and Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. This Agreement may not be modified or altered except in writing signed by both parties.

#### **Section 10. Jurisdiction.**

This Agreement shall be administered and interpreted under the laws of the State of California. Jurisdiction over any litigation arising from this Agreement shall be in the Superior Court of the State of California with venue in Placer County, California.

#### **Section 11. Suspension of Services.**

Upon written request by Consultant, City may suspend, in writing, all or any portion of the Services if unforeseen circumstances beyond the control of the City and Consultant make normal progress of the Services impossible, impractical or infeasible. Upon written City approval to suspend performance of the Services, the time for completion of the Services shall be extended by the number of days performance of the Services is suspended.

#### **Section 12. Termination of Services.**

City may at any time, at its sole discretion, terminate all or any portion of the Services and this Agreement upon seven (7) days written notice to Consultant. Upon receipt of notice of termination, Consultant shall stop performance of the Services at the stage directed by City. Consultant shall be entitled to payment within thirty (30) days for Services performed up to the date of receipt of the written notice of termination. Consultant shall not be entitled to payment for any Services performed after the receipt of the notice of termination unless such payment is authorized in advance in writing by the City.

Should Consultant fail to perform any of the obligations required of Consultant within the time and in the manner provided for under the terms of this Agreement, or should Consultant violate any of the terms and conditions of this Agreement, City may terminate this Agreement by providing Consultant with seven (7) days written notice of such termination. The Consultant shall be compensated for all Services performed prior to the date of receipt of the notice of termination.

However, the City may deduct from the compensation which may be owed to Consultant the amount of damage sustained or estimated by City resulting from Consultant's breach of this Agreement.

Consultant's obligations pursuant to Sections 5 and 6 of this Agreement shall survive termination, and continue in effect for as long as necessary to fulfill the purposes of Sections 5 and 6.

### **Section 13. Independent Contractor.**

Consultant shall in all respects be an independent contractor and not an agent or employee of City. Consultant has and shall retain the right to exercise full control and supervision of the means and methods of performing the Services. Consultant shall receive no premium or enhanced pay for Services normally understood as overtime; nor shall Consultant receive holiday pay, sick leave, administrative leave or pay for any other time not actually expended in the performance of the Services. It is intended by the parties that Consultant shall not be eligible for benefits and shall receive no compensation from the City, except as expressly set forth in this Agreement. Consultant shall submit completed W-9 and Report of Independent Contractor forms upon execution of this Agreement and prior to the payment of any compensation hereunder.

### **Section 14. Ownership of Documents.**

Within thirty (30) days after the Consultant substantially completes performance of the Services, or within thirty (30) days after the termination of this Agreement, the Consultant shall deliver to the City all files, records, materials and documents drafted or prepared by Consultant's in the performance of the Services. It is expressly understood and agreed that all such files, records, materials and documents are the property of the City and not the property of the Consultant. All finished and unfinished reports, plans, studies, documents and other writings prepared by and for Consultant, its officers, employees and agents in the course of performing the Services shall become the sole property of the City upon payment to Consultant for the Services, and the City shall have the exclusive right to use such materials in its sole discretion without further compensation to Consultant or to any other party. Consultant shall, at Consultant's expense, provide such reports, plans, studies, documents and writings to City or any party the City may designate, upon written request. Consultant may keep file copies of all documents prepared for City. Use of any such documents by the City for projects that are not the subject of this Agreement or for purposes beyond the scope of the Services shall be at the City's sole risk without legal liability or expense to Consultant.

### **Section 15. Changes and/or Extra Work.**

Only the City Council may authorize extra and/or changed Services, modification of the time of completion of the Services, or additional compensation for the tasks to be performed by Consultant. Consultant expressly recognizes that other City personnel are without authorization to order extra and/or changed Services or to obligate the City to the payment of additional compensation. The failure of Consultant to secure the prior written authorization for such extra and/or changed Services shall constitute a waiver of any and all right to adjustment in the contract price due to such unauthorized Services, and Consultant thereafter shall not be entitled to any compensation

whatsoever for the performance of such extra or changed Services. In the event Consultant and City agree that extra and/or changed Services are required, or that additional compensation shall be awarded to Consultant for performance of the Services under this Agreement, a supplemental agreement providing for such compensation shall be prepared and shall be executed by the Consultant and the necessary City officials before the extra and/or changed Services are provided.

#### **Section 16. Compliance with Federal, State and Local Laws.**

Consultant shall comply with all applicable federal, state and local laws, statutes, ordinances, rules and regulations affecting the Services, including without limitation laws requiring licensing and prohibiting discrimination in employment because of race, creed, color, sex, age, marital status, physical or mental disability, national origin or other prohibited bases. City shall not be responsible or liable for Consultant's failure to comply with applicable laws, statutes, ordinances, rules or regulations.

#### **Section 17. Retention of Records.**

Consultant and any subconsultants authorized by the terms of this Agreement shall keep and maintain full and complete documentation and accounting records, employees' time sheets, and correspondence pertaining to the Services, and Consultant shall make such documents available for review and/or audit by City and City's representatives at all reasonable times during performance of the Services and for at least four (4) years after completion of the Services and/or termination of this Agreement.

#### **Section 18. Alternative Dispute Resolution**

- A. Before resorting to mediation, arbitration or other legal process, the primary contacts of the parties shall meet and confer and attempt to amicably resolve any dispute arising from or relating to this Agreement subject to the following provisions. Any party desiring to meet and confer shall so advise the other party pursuant to a written notice. Within 15 days after provision of that written notice by the party desiring to meet and confer, the primary contacts for each party shall meet in person and attempt to amicably resolve their dispute. Each primary contact, or the person acting in their absence with full authority to resolve the dispute, shall attend the meeting and shall be prepared to devote an entire day thereto. If any dispute remains unresolved at the end of the meeting, any party to this Agreement shall have the right to invoke the mediation process provided for in the subparagraph B below.
- B. Subject to the provisions of subparagraph A, any dispute that remains unresolved after the meet and confer shall immediately be submitted to non-binding neutral mediation, before a mutually acceptable, neutral retired judge or justice at the Sacramento Office of the Judicial Arbitration and Mediation Service ("JAMS"). If within five days after the meet and confer the parties are unable to agree upon the selection of a neutral mediator, then the first available retired judge or justice at the Sacramento office of JAMS shall serve as the neutral mediator. The parties agree to commit to at least one full day to the mediation process. Additionally, to expedite the resolution of any dispute that is not resolved by mediation, the parties agree to each bring to the neutral mediation a list of at least five

neutral arbitrators, including their resumes, whose availability for an arbitration hearing within 30 days after the mediation has been confirmed.

- C. If mediation is unsuccessful, before the mediation concludes, the parties shall mediate the selection of a neutral arbitrator to assist in the resolution of their dispute. If the parties are unable to agree on an arbitrator, the parties agree to submit selection of an arbitrator to the mediator, whose decision shall be binding on the parties. In that case, the mediator shall select a neutral arbitrator from the then active list of retired judges or justices at the Sacramento Office of the JAMS. The arbitration shall be conducted pursuant to the provisions of the California Arbitration Act, sections 1280-1294.2 of the California Code of Civil Procedure. In such case, the provisions of Code of Civil Procedure Section 1283.05 and 1283.1 shall apply and are hereby incorporated into this Agreement.
- D. This section 18 shall survive the termination or expiration of this Agreement. If there is no Sacramento office of JAMS, then the office of JAMS closest to the City shall be used instead of a Sacramento office.

#### **Section 19. Severability.**

The provisions of this Agreement are severable. If any portion of this Agreement is held invalid by an arbitrator or by a court of competent jurisdiction, the remainder of the Agreement shall remain in full force and effect unless amended or modified by the mutual written consent of the parties.

#### **Section 20. Entire Agreement; Amendment.**

This Agreement, including all exhibits hereto, constitutes the complete and exclusive expression of the understanding and agreement between the parties with respect to the subject matter hereof. All prior written and oral communications, including correspondence, drafts, memoranda, and representations, are superseded in total by this Agreement. This Agreement may be amended or extended from time to time only by written agreement of the parties hereto.

#### **Section 21. Time of the Essence.**

Time is of the essence in the performance of the Services. The Consultant will perform its Services with due and reasonable diligence consistent with sound professional practices and shall devote such time to the performance of the Services as may be necessary for their timely completion.

#### **Section 22. Written Notification.**

Except as otherwise specified in this Agreement, any notice, demand, request, consent, approval or communications that either party desires or is required to give to the other party shall be in writing and either served personally or sent by first class mail, postage prepaid and addressed as follows. Either party may change its address by notifying the other party in writing of the change of address. Notice shall be deemed communicated within two business days from the time of mailing if mailed within the State of California as provided in this Section.

If to City:

City of Colfax  
33 S. Main Street  
Colfax, CA 95713

If to Consultant:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Section 23. Execution.**

This Agreement may be executed in original counterparts, each of which shall constitute one and the same instrument and shall become binding upon the parties when at least one original counterpart is signed by both parties hereto. In proving this Agreement, it shall not be necessary to produce or account for more than one such counterpart.

**Section 24. Successors.** This Agreement shall be binding on and inure to the benefit of the respective parties hereto except to the extent of any contrary provision in this Agreement.

**Section 25. Attorney's Fees.** If any party to this Agreement commences legal proceedings to enforce any of its terms or to recover damages for its breach, the prevailing party shall be entitled to recover its reasonable attorney's fees, costs and the expenses of expert witnesses, including any such fees costs and expenses incurred on appeal.

IN WITNESS WHEREOF, the parties hereby have executed this Agreement on the day first above written:

CITY

CONSULTANT

Signature\_\_\_\_\_

Signature\_\_\_\_\_

Printed Name\_\_\_\_\_

Printed Name\_\_\_\_\_

Title\_\_\_\_\_

Title\_\_\_\_\_

Date\_\_\_\_\_

Date\_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney

**ATTACHMENT 7**  
**CITY OF COLFAX**  
**QUALITY ASSURANCE PROGRAM (QAP) 2014**

**PURPOSE**

The purpose of this Program is to provide assurance that materials incorporated into construction projects are in conformance with contract specifications. This Program should be updated every five years or more frequently if there are changes to testing frequencies or to the tests themselves. To accomplish this purpose, the following terms and definitions will be used:

**DEFINITION OF TERMS**

- 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.

**APPLICABILITY**

This Program shall be used by the City of Colfax for all federal-aid transportation projects on the State Highway System (SHS). Its use is mandatory for federal-aid projects and recommended for other City projects.

California Test methods will be used to meet the QAP requirements for projects on the State Highway System (SHS). The following QAP documents are to be used: The California Department of Transportation (Caltrans) Construction Manual and The Caltrans Independent Assurance (IA) Manual.

**MATERIALS LABORATORY**

The City of Colfax 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:

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)
2. Certification of Personnel - The materials laboratory shall employ personnel who are certified by one or more of the following:
  - a) Caltrans District Materials Engineer
  - b) Nationally recognized non-Caltrans organizations such as the American Concrete Institute, Asphalt Institute, 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. 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.

### **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 nationally recognized standard (i.e., AASHTO, ASTM, etc.) as specified in the contract specifications. Sample locations and frequencies may 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, "Acceptance Sampling and Testing Frequencies".

### **INDEPENDENT ASSURANCE PROGRAM (IAP)**

IAP shall be provided by personnel from Caltrans, the City's certified materials laboratory, or 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. IAP samples and tests are not to be used for determining compliance with contract requirements. Compliance with contract requirements is determined only by AT.

## **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 electronic mail, fax or telephone.

## **TESTING OF MANUFACTURED MATERIALS**

During the Design phase of the project, the Project Engineer may submit a "Source Inspection Request" (See Attachment 2) to the City, 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 see Attachment 3 "Construction Materials Accepted by a Certificate of Compliance". All certificates of compliance shall conform to the requirements of the contract specifications. See Attachment 4 "Examples of Vendor's Certificate of Compliance".

Should the City 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.

## PROJECT CERTIFICATION

Upon completion of a Federal-aid project, a "Materials Certificate" shall be completed by the Resident Engineer. The City 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's construction records. The Resident Engineer in charge of the construction function for the City 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 "Example of Materials Certificates Exceptions".

## 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," (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.

APPROVED BY: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(CE# and Expiration Date)

NAME: Nicholas J. Ponticello  
TITLE: City Engineer

DATE: \_\_\_\_\_



## Attachment 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 a 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.

### Portl and 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 CT 125 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.



## Attachment 1 (continued)

### Portland Cement Concrete (Hydraulic Cement Concrete) – Continued

Materials to be Sampled or Tested	Sample Size	Sampling/Testing Frequency	Typical Test Methods	Description of 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. 150lb. (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.



### Attachement 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 compressive 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 1 (continued)**
**Soils and Aggregates - Continued**

<b>Materials to be Sampled or Tested</b>	<b>Sample Size</b>	<b>Sampling/Testing Frequency</b>	<b>Typical Test Methods</b>	<b>Description or Comments</b>
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 than 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 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).



## Attachment 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.



### Attachment 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.



### Attachment 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) AASHTO 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.



### Attachment 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.



# CITY of COLFAX

C A L I F O R N I A

CITY HALL, 33 SOUTH MAIN STREET, COLFAX, CA



## Source Inspection Request From the City of Colfax to CALTRANS' District Local Assistant Engineer

October 1, 2014

To: Caltrans' District Local Assistance Engineer  
Caltrans Local Assistance Office  
703 B Street, PO Box 911  
Marysville, CA 95901

Federal Project Number: \_\_\_\_\_

Project Description: \_\_\_\_\_

Project Location: \_\_\_\_\_

**Subject:**

We are requesting that Caltrans provide Source Inspection (reimbursed) services for the above mentioned project. We understand that we are responsible for paying for this service provided 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 the request: (Based on the requirements in Section 16.14 under "Source Inspection")

\_\_\_\_\_  
\_\_\_\_\_

Any questions you might have about the above materials should be directed to:

\_\_\_\_\_, at \_\_\_\_\_

**Approved:**

\_\_\_\_\_  
District Local Assistance Engineer

Nick Ponticello

\_\_\_\_\_  
(Date)

City Engineer  
City of Colfax  
PO Box 702  
Colfax, CA 95713



## Attachment 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.

Note: Usually these items are inspected at the site of manufacture or fabrication and reinspected after delivery to the job site.



### Attachment 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 <b>XYZ CEMENT CO.</b>	MILL LOCATION <b>MIDLAND, CALIFORNIA</b>
TYPE <b>II MODIFIED</b>	

**CHEMICAL ADMIXTURE**

1. BRAND <b>ABC. ADMIXTURE</b>	MANUFACTURER <b>XYZ SUPPLIER</b>
TYPE <b>WATER REDUCER</b>	
2. BRAND	MANUFACTURER
TYPE	

CHECK BOX IF A CHEMICAL ADMIXTURE WAS NOT USED

**MINERAL ADMIXTURE**

MANUFACTURER <b>POZZ. INC.</b>	CLASS <b>F</b>
-----------------------------------	-------------------

CHECK BOX IF A MINERAL ADMIXTURE WAS NOT USED

DELIVERY DATE (Ready-Mix) <b>7/7/07</b>	DATES OF FABRICATION (Precast)
--	--------------------------------

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

*Portland Cement  
 Flyash  
 Water Reducer*

MANUFACTURER OF CONCRETE PRODUCTS  
**A.E.B. READY MIX**

By: AUTHORIZED REPRESENTATIVE SIGNATURE  
*Joe Anderson*



## Attachment 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 5 - Materials Certificates/Exceptions  
(Signed by the Resident Engineer at the Completion  
of the Project)**

Federal-aid Project No.: \_\_\_\_\_

**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.

\_\_\_\_\_  
**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 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 compliance 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 area was noted. It was reworked and retested. The second test met specifications.

\_\_\_\_\_  
Resident Engineer (Print Name)

\_\_\_\_\_  
Resident Engineer (Signature)

\_\_\_\_\_  
Date



## Attachment 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 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