

**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. <b>11</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order must be approved by the City Council:**  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

This Change Order changes the Contract in accordance with the attached Field Change Directive (FCD) 17R1. This Change Order hereby modifies Specification Section 39 Hot Mix Asphalt to allow paving when ambient temperatures are 40 degrees and rising, and when surface temperatures are above 32 degrees.

Estimated Cost:  Decrease  Increase **Deferred**

By reason of this order the time of completion will be adjusted as follows: **No additional working days granted**

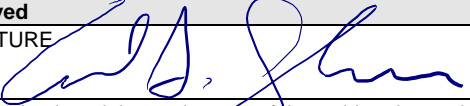
**Submitted by**

SIGNATURE 	(PRINT NAME & TITLE) <b>Rebecca Neves P.E., City Engineer</b>	DATE 12/21/16
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**Approved**

SIGNATURE	(PRINT NAME & TITLE) <b>Cleve Morris, City Manager</b>	DATE
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**Approved**

SIGNATURE 	(PRINT NAME & TITLE) <b>Resident Engineer</b>	DATE 12/21/16
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We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.**

**Contractor Acceptance by**

SIGNATURE	(PRINT NAME & TITLE)	DATE
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**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)  
**FIELD CHANGE DIRECTIVE #17R1**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17R1**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/20/2016**

**DESCRIPTION OF CHANGE:**

In addition to documentation provided via FCD 17, this revision includes direction to M&H to pave the project in compliance with the contract and the attached redlined QC Plan.

M&H has stated that paving can be completed in one shift. Paving shall occur in a single shift on 12-21-16 or 12-22-16 at M&H's option. Geocon shall perform QA/QC role. Areas of AB that show minor rutting (in front of Caltrans and PG&E driveway approximately 105+75 to 106+25) shall be finish rolled with a static roller prior to paving. Paving shall begin when conditions identified by Geocon in referenced letter are met. In addition, temperature of AB shall be a minimum of 32 degrees.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

Ambient temperatures are below minimum temperatures as defined in Specification Section 39-3.04.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



Submittal Cover Sheet  
 1016 North Market Blvd. Suite 20  
 Sacramento, CA 95834  
 916-372-8910 Fax 916-372-8913

M&H S# 069.1

Submitted To: Carl Sloan  
 Address: 549 Main Street  
 Placerville, CA 95667  
 Attention: Carl Sloan  
 Phone: 916-218-8432

Project Title: Blairs Lane Bridge Replacement  
 Contract No.: 40604 M&H Job # 3926  
 Location: Placerville, CA  
 1st \_\_\_ 2nd \_\_\_ 3rd \_\_\_ other \_\_\_  
 Sub/Vender: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Sub/Ven Subm'l # \_\_\_\_\_

ACTION TAKEN						M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved						Subcontractor to Contractor								
AAN- Approved as Noted						Contractor to Owner	12/20/16			X				
RR- Revise & Resubmit						Owner to Consultant								
R- Rejected						Consultant to Owner								
AR- Acknowledge Receipt						Owner to Contractor								
RWR- Return W/o Review						Contractor to Subcontractor								
A	AAN	RR	R	AR		Specification No.	Description							
						Section 39-2.02	AC Paving Quality Control Plan							

We verify that the material transmitted herein is in compliance with the Contract Specifications:  
 With no Exceptions       Except for the following deviations

Comments: \_\_\_\_\_

*Arnie Garcia*  
 \_\_\_\_\_  
 McGuire and Hester

Review Comments: \_\_\_\_\_

Please see comments below in red. A formal submittal response will be issued. The submittal will be marked Approved as Noted

December 20, 2016

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: Section 39-2.02 – Quality Control Plan (Revision 1) – Standard Construction Process – Asphalt Paving

Mr. Sloan:

The following Quality Control Plan will be executed in compliance with Section 39-2 Standard Construction Process for the ½" Medium Type "A" HMA PG64-10 w/15% Reclaimed Asphalt Pavement. Quality Control Material Testing will be completed by the Teichert Aggregates at the Perkins Plant located at;

- 8760 Kiefer Blvd. Sacramento, Ca. 95826.

Quality Control Organization - Teichert Aggregates Quality Assurance Team:

- Teichert Aggregates – Mike Kucunik - 916-386-6988
  - Mike Kucunik. - Quality Assurance Supervisor for the Blairs Lane Project.
  - Eric Gifford. - Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt Concrete Supervising Laboratory Technician.
  - Trenton Crouse. - Quality Assurance technician III.
  - James Haas. - Technician III.
  - Theodore Leal. - Technician III.
  - Luis Maca. - Quality Assurance Technician II.
  - John Scroggins. - Quality Assurance Technician II.
  - Brandon Snyder. - Quality Assurance Technician III.
  - Taylor Theis. - Quality Assurance Technician I.
- Attached is a copy of the CALTRANS Qualified Laboratory Inspection Report for the Teichert Perkins Plant for sampling and testing.
  - Inspected by – CALTRANS, Jackie Treat, (#107).
  - (A list of certifications for the Teichert Perkins Laboratory is included).
- A copy of the approved submittal #59 – ½" 64-10 HMA Type "A" w/15% RAP.
- Material Testing at the Teichert Perkins Plant will be completed per the CALTRANS Standard Specification Section 39-22.02B, "Minimum Quality Control – Standard Construction Process".

All testing shall be performed per Section 39-202B. Moisture Susceptibility and Hamburg tests shall not be required.

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule:

Quality Control – Standard Construction Process			
Quality Characteristic	Test Method	Min. Sampling & Testing Frequency	HMA Type "A"
Aggregate Gradation	Ca. Test 202	1 test/per 750 Tons	JMF +/-
Sand Equivalent	Ca. Test 217	1 test/per 750 Tons	47



(Tensile Strength Ratio, %)

Smoothness	Section 39-1.12B & D	TBD Onsite	12-Ft
• Profilograph not required.			
(McGuire & Hester)			Straight Edge

Paving Operations:

- Weather permitting; M&H will proceed with placement of the ½" Max. Med. Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement per the modified construction methods provided by GEOCON Consultants Inc. within the recommendation letter, dated December 6, 2016.
- Asphalt Plant Batching - Teichert Aggregates will batch the asphalt mix from its Perkins Plant (8760 Kiefer Blvd. Sacramento, Ca. 95826), at 325 degrees. ~~The City of Placerville Quality Assurance representative is needed at the Teichert Plant to preform Quality Assurance Testing.~~ **Teichert**
- Hauling - All loads batched from the Teichert Perkins plant will be loaded onto Transfer haul trucks. All loads will be tarped, per FCD 17. Loads not tarped will be rejected. Loads which are tarped but arrive with asphalt mix at a temperature below 280 degrees will be rejected; ~~all cost for the rejected asphalt mix including the hauling and paving crew cost impacts will be paid by the City of Placerville.~~ **Per approved submittal 59**. Determination of the rejected or acceptable loads will be made in coordination with McGuire & Hester and the City of Placerville's Quality Assurance Representative.
- Construction – M&H will place a single .3' section of asphalt mix, Per FCD 17.
  - M&H will begin its operation at the PG&E & Cal-Trans Driveways on Wednesday December 21, 2016 ~~including any deep lift sections determined by the QC/QA representative and M&H representative Johann Berg (Minor Hand Work may be needed).~~ **Finish roll with static roller.**
  - Blairs Lane roadway paving will begin on, December 22, 2016, from the Broadway intersection towards Baco Drive. (Minor Hand Work may be needed). **12-21 or 12-22 at M&H option.**
  - M&H will coat all concrete and asphalt vertical edges with SS-1 oil prior to placement of asphalt mix.
  - M&H will receive and place the asphalt mix with the Cat Paver 1055 D, (a Weiler Paver P 385A will be onsite for back up).
  - The CAT 67" CAT Roller CB 534D will complete the initial breakdown roll prior to the asphalt mix cooling to 250 degrees. (The 51" CAT Roller CB 334E may be required at various locations for initial breakdown). Adjustments will be determined in the field. Field compaction testing to be provided by Geocon.
  - The 51" CAT Roller CB 334E will complete the intermediate compaction.
  - The CAT 47" CB 224E will complete the finish breakdown.
  - The intermediate and final roller operators will ensure temperatures levels per the Geocon letter during the final paving operations.
  - Pavement Smoothness will be monitored by M&H w/12-foot straight edge.
    - No Profilograph required.

Driveways may be built first at M&H option.

Rollers shall be minimum of those required in Geocon letter.

Corrective Actions:

- Teichert Plant Technicians and M&H will coordinate and confirm the asphalt mix quality characteristics.
  - Corrective Actions; Determination of Corrective Actions, by McGuire and Hester Forman Johan Berg, during the operations will be completed in coordination with the City of Placerville QC/QA Representative - Geocon.
    - Any corrective actions to the AC mix design, batching, hauling, compaction methods, paving, or any other paving corrective actions will be identified and coordinated with the onsite QC/QC representative.
    - Any sub-grade (AB) repairs or concerns will be determined by M&H and identified to Geocon to determine the correct action needed. ~~Any cost impacts will be tracked and paid by the City of Placerville on force account/T&M.~~



If you have any questions, comments, and/or concerns with the Quality Control Plan as outlined please feel free to call me at 916-873-2690.

Sincerely,  
**McGuire & Hester**

A handwritten signature in black ink, appearing to read "Hugo Gutierrez", is written over the company name.

Hugo Gutierrez  
Senior Project Manger



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #17**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/9/2016**

**DESCRIPTION OF CHANGE:**

Cold Weather Paving Recommendations. See attached letter.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

These are recommendations for paving under 50 degrees.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

A handwritten signature in blue ink, appearing to read "C.A. Sloan".

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



Project No. S1080-05-01  
December 6, 2016

Carl A. Sloan, PE, MBA  
UNICO Engineering, Inc.  
110 Blue Ravine Road, Suite 101  
Folsom, California 95630

Subject: COLD WEATHER PAVING RECOMMENDATIONS  
BLAIRS LANE BRIDGE REPLACEMENT  
PLACERVILLE, CALIFORNIA

Dear Mr. Sloan:

As requested, we are providing this letter summarizing cold-weather paving recommendations. We understand that hot mix asphalt (HMA) paving of the Blairs Lane Bridge project is occurring this month. The project specifications require ambient air temperature to be 50° F and rising for paving operations, primarily to ensure that compaction can be achieved. Based on our experience, paving may occur at cooler temperatures such as 40° F and rising, provided some measures are taken to achieve proper compaction:

- Use the approved alternate HMA mix design (submittal 59)
- Batch the HMA at the highest temperature possible without compromising the integrity of the mix.
- Cover (tarp) all trucks transporting HMA. Any uncovered trucks arriving at the site should be rejected.
- The specified total HMA section thickness is 0.3 feet. We recommend placing the HMA in a single lift to increase the time duration that the HMA can be compacted, and therefore the probability that compaction will be achieved.
- Because of the larger lift thickness, start the breakdown roll as quickly as possible. Take measures to reduce the amount of “hand work” required to spread the HMA.
- Use a minimum of two 7-½-ton or larger dual drum vibratory rollers, one breakdown roller and one intermediate roller.
- HMA breakdown temperature should be no less than 250°F.
- Use a 4-ton or larger dual drum vibratory roller for final compaction.
- Final compaction should be achieved before the HMA mat cools below 150°F.

These recommendations are provided to assist the contractor in achieving the required compaction in cold weather conditions. All paving operations should be performed in the presence of our field representative, who will monitor HMA temperatures and perform compaction testing to help establish an appropriate compaction program. The contractor remains solely responsible for achieving the required compaction and constructing the pavement improvements in accordance with the projects plans and specifications.



Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in this area at this time. We make no warranty, express or implied.

Please contact us if you have any questions regarding this letter or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Jeremy J. Zorne, PE, GE  
Senior Engineer



Richard Church, PE,  
Project Engineer





**CITY OF PLACERVILLE, CALIFORNIA  
DEVELOPMENT SERVICES DEPARTMENT  
ENGINEERING DIVISION**

approved flyer. Flyers may be hand delivered or mailed. The City will supply a list of addresses after award of the project. Anticipate approximately 100 residences.”

6. On page TSP-4, After “TEMPORARY TRAFFIC CONTROL” Heading, add the following section:

**Add to section 12-1.01A:**

Two Portable Changeable Message Signs are required for the road closure and detour. Start displaying the message on the portable changeable message sign 2 weeks before closing the road at locations directed by the Engineer. The Engineer will determine the message to be displayed. Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.

7. On page TSP-7, in Section 12-5.04, add the following:

“Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.”

8. On page TSP-10, Section 13-3.01A; add the following:

“You are responsible for implementing the SWPPP and performing any corrective actions required by the Engineer. Payment for implementing the SWPPP and performing any corrections is included in the various water pollution control items and Job Site Management.”

9. On page TSP-33 and TSP-34, Delete Section 15-2.06B, “Destroy Monitoring Well”.

10. On page C-2 of the Contract (Agreement), in Article 5 “Indemnity,” Add Lakemont LLC as indemnified

11. The Contractor’s Bid and Bid Price Schedule. Pages P-4 thru P-10 are replaced with the attached ones and must be used when submitting your bid. The changes are as follows:

Item #26 “Destroy Monitoring Well” - Delete item

Item #61 “Erosion Control (Dry Seed)(SQFT) - Change the Quantity 3100 to 5000

Item #86 “60” Precast Concrete Pipe Manhole” – Change unit of measure from LF to EA

Item #87 “72” Precast Concrete Pipe Manhole” - Change unit of measure from LF to EA

**CHANGES AND/OR CLARIFICATIONS TO THE PLANS:**

12. Replace plan sheets ECQ-1, DQ-1, DQ-2, UT-1, and Q-2 with the attached revised sheets in accordance with changes to the project Specifications listed above.

**BIDDER QUESTIONS:**

13. Who is responsible for testing?

A. UNICO (Construction Management and RE) is partnering with GEOCON to perform Hazardous Waste Testing. They are responsible for testing of soils, backfill, structural backfill, aggregate base, asphalt, concrete and other testing as required.

14. Question: Is there a temporary pumping plan for the sewer? What is the GPM?

A. No, there is no temporary pumping plan in the plans or specifications; if the contractor wishes to submit a temporary pumping plan, they are responsible for the design of the plan. The plan should include provisions for 145 GPM at the south side of Hangtown

## PERSONNEL QUALIFICATIONS

**Name:** Eric Gifford

**Position:** Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt  
Supervising Laboratory Technician

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

Oversees and coordinates the processing of Geology test materials with other technicians and the Geology department.  
Processing new asphalt mix designs for the various plants for the up coming year and mix designs for upcoming jobs. Also processes mix verifications for the outside plants. Providing plant coverage for other technicians when necessary and coverage for QA at various jobsites in both asphalt and soils.

### EXPERIENCE

Since August 2000, Mr. Gifford has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties involving aggregates, soils and asphalt testing.

#### Caltrans QC/QA Inspect and test

1. 03 0A7814 Mack Rd Rt99
2. 03 366404 Camino
3. 03 0A6004 Colfax RT 80
4. 10 0A7404 Jacktone Rd Rt120

Various Sacramento County overlay projects

Various City of Elk Grove paving projects

#### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)	5/14/01
ACI Concrete field technician level	6/26/04
Asphalt Institute Certification HMA mix design class	3/4/05

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

**NICET Certification:**

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils		X		
Concrete	X			
Asphalt		X		

**TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler

- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

**EDUCATION**

Bachelor of Arts in Geology, 2000  
California State University Sacramento  
Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**ERIC GIFFORD**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T 324 Hamburg Wheel-Track testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**ERIC GIFFORD**

of  
**TEICHERT PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Michael Kocunik  
**Position:** Quality Assurance Supervisor – Perkins and Grantline  
**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

QA Lab, Teichert's Perkins Plant.

- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Determination to asphalt content - CTM310
- Sieve Analysis of Aggregates - CTM 202
- Total Moisture Content of aggregate by Drying - CTM 202
- AC Mix moisture Content by Drying - CTM 310
- Inspection of hot mix asphalt plant equipment, operation, and production

### EXPERIENCE

Since 1997, Mr. Kocunik has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities.

Mr. Kocunik also performed various testing procedures in the QA Lab for the Tracy Aggregates and Hot Mix Asphalt facilities. He has carried out QC duties on Cal-Trans Contract Nos. 10-414904, 03-444904, 03-384504, 03-1A69U4, 03-0A7814, 10-459304, 03-0A5504, 10-1A5204, 03-366404, and 10-218814.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gage safety and operation)

#### NICET Certification:

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils	X			
Concrete	X			
Asphalt	X			

### TRAINING

Trained in quality control testing which includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count

### EDUCATION

Bachelor of Science in Sociology, 1999 - California State University Sacramento  
Asphalt Institute "Construction of Quality Hot Mix Asphalt Pavements" June 2008



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**MIKE KOCUNIK**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-µm, Wash</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>R30 Mixture Conditioning of HMA</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 324 Hamburg Wheel-Track Testing</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T248 Reducing Sample of Agg</u>
<u>T 96 LA Rattler</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 176 Sand Equivalent</u>	
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 269 % Air Voids</u>	
<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>	
<u>T 283 Moisture-Induced Damage</u>	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat** Jackie Treat

**Certified Independent Assurance (IA) Number** 107

**Date Issued:** 06/06/16 **(Expires 2 year after issue date)** **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**MIKE KOCUNIK**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

06/18	.....	x CTM 105 – CALCULATIONS
06/18	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
06/18	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
06/18	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
06/18	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
06/18	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
06/18	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
06/18	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
06/18	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
06/18	.....	<input checked="" type="checkbox"/> CTM -227 -CV
06/18	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
06/18	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**FERNANDO RIVERA**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 06/06/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES BREWSTER  
TEICHERT**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	
T 27 Sieve Analysis, Fine & Coarse Agg.	
T 96 L.A. Rattler	
T 176 Sand Equivalent	
T 210 Aggregate Durability Index	
T 335 Crush Particle	
D4791 Flat and Elongated	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 2/11/15 Expires 2/16 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMES BREWSTER**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date                      Test Method**

02/16	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
02/16	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
	.....	<input type="checkbox"/> CTM 201 – SAMPLE PREPARATION
	.....	<input type="checkbox"/> CTM 202 – SIEVE ANALYSIS
	.....	<input type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
	.....	<input type="checkbox"/> CTM 217 – SAND EQUIVALENT
	.....	<input type="checkbox"/> CTM 226 – MOISTURE CONTENT
	.....	<input type="checkbox"/> CTM -227 -CV
	.....	<input type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
	.....	<input type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
	.....	<input type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
	.....	<input type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
	.....	<input type="checkbox"/> CTM 366 – STABILOMETER
	.....	<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
	.....	<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
	.....	<input type="checkbox"/> CTM 382 – PERCENT ASPHALT
	.....	<input type="checkbox"/> CTM -204,206
	.....	<input type="checkbox"/> CTM -207,211
	.....	<input type="checkbox"/> CTM -212,213,214,
	.....	<input type="checkbox"/> CTM -234,235,371
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**KEVIN ESPINOZA**  
District 03 Materials Engineer

*Jackie Treat*

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 02/11/16      Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Trenton Crouse

**Position:** QA Technician III

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Crouse has performed various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. He is also responsible for the testing of AMRL and Caltrans proficiency samples. Mr. Crouse is also responsible for maintaining lab and technician accreditations or certifications as well as verification of the testing equipment available at the labs.

### QUALIFICATIONS:

Mr. Crouse has been employed by Teichert Aggregates' Quality Assurance Department since 2006. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. He also holds a large number of Caltrans Certifications, AASHTO Certifications, 2 ACI Certifications, and Level 2 NICET Certifications. He has worked as the main plant technician on a number of Caltrans projects at a number of Teichert locations, both during the day and at night. Mr. Crouse has worked independently on a number of projects at outside locations and at the Perkins location.

### EXPERIENCE:

Mr. Crouse has worked with the Geology Department to evaluate various locations and their suitability for their use in aggregate production. He has experience at the majority of Teichert Hot Mix facilities and Rock Plant facilities. Since 2006 Mr. Crouse has been responsible for maintaining the quality of material through all phases of production at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4471 Viscosity
- D 4791 Flat and Elongated

**ACI Aggregate Testing Technician Level 1**

**ACI Aggregate Testing Technician Level 2**

**NICET Certification:**

	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>
<b>Construction Materials Testing:</b>				
Soils	X	X		
Asphalt	X	X		
Concrete	X	X		
<b>Highway Materials</b>	X	X		

**Nuclear Gauge Safety Training Class  
Hazmat Nuclear Gauge Transportation/Use**

## **TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates, Soils  
Apparent Specific Gravity  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Micro Deval  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Soil Gravity  
Atterburg Limits  
Expansion Index  
Particle Size Analysis of Soils  
In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
HMA Compaction Nuclear Gauge  
Stabilometer Value  
Resistance of Compacted Bituminous Mixture to Moisture Induced Damage  
AC Content by Ignition and Nuclear Methods  
Gyratory Compaction of Samples  
Hamburg Wheel Track Testing

## **EDUCATION:**

Associate of Science in Construction Management Technology  
Cosumnes River College  
5/21/2014  
Associate of Arts in Business Administration  
Cosumnes River College  
Awaiting Commencement in early 2106

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TRENTON CROUSE**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyratory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TRENTON CROUSE**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
05/17	.....	<input checked="" type="checkbox"/> CTM -301 R-VALUE
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** James Haas  
**Position:** Technician III  
**Employer:** Teichert Quality Assurance

### AREA OF RESPONSIBILITY

Perkins Lab, Rock Plant, and Hot Plant Facilities:

- CTM 105
- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Soil and Aggregate sample preparation – CTM 201
- Sieve Analysis of Aggregates - CTM 202
- Sand Equivalent – CTM 217
- Moisture Content of Soils - CTM 226
- Evaluating Cleanness of Aggregate - CTM 227
- Durability of Aggregate - CTM 229
- Moisture Content (Asphalt) - CTM 370
- AC Content - CTM 379, CTM 382

### EXPERIENCE

Since July 2003, Mr. Haas has been employed by Teichert Aggregates' Quality Assurance Department as a Quality Assurance Technician. Mr. Haas has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Haas has gained experience through Teichert's In House Proficiency Program involving aggregates, soils and asphalt testing.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 217 Sand Equivalent
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent

- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

## **TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- AC Contents
- AC Moistures

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES HAAS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMESON HAAS**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -371- MOISTURE SENSITIVITY
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,204,214,384
05/17	.....	<input checked="" type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Theodore Leal

**Position:** Technician III

**Employer:** Teichert Aggregates Quality Assurance Department

### AREA OF RESPONSIBILITY:

Mr. Leal is responsible for various testing procedures and maintaining the quality of materials being produced at the Perkins Quality Assurance Lab for the Perkins Aggregates and Hot Plant Facilities as well as other Teichert facilities.

### QUALIFICATIONS:

Mr. Leal has worked with AMRL and CCRL proficiency testing programs. Soil Testing: Atterberg limits, Soil Compaction, Sieve Analysis, Hydraulic Conductivity (D 5084), Expansion Index, and Resistance Value. Concrete and Concrete Aggregate Testing: Compression Strength, Specific Gravity and Absorption of Aggregates, and Durability.

### EXPERIENCE:

Mr. Leal has been employed by Teichert Aggregates' Quality Assurance Department since 2010. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Leal has received training through Teichert's in-house training program dealing with aggregates, soils, and asphalt testing. Mr. Leal previously worked at Youngdahl Consulting for 5 and 1/2 years testing soil, aggregate, and concrete.

### CERTIFICATIONS AND RATINGS:

ACI Concrete Laboratory Testing Technician Grade I

Troxler Certified (Nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 R Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

#### **TRAINING AND CONTINUING EDUCATION:**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

Sampling of Aggregates and Asphalt  
 Specific Gravity of Coarse Material, Fine Aggregates, Soils  
 Apparent Specific Gravity  
 Crushed Particle Count  
 Friable Particles  
 Soundness of Aggregate by Sodium Sulfate  
 Unit Weight  
 LA Rattler  
 Micro Deval  
 Laboratory Compaction of Soils  
 Resistance Value  
 Atterberg Limits  
 Particle Size Analysis of Soils

In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value

**EDUCATION:**

Westmont High School, 1985  
High School Diploma  
West Valley College  
1985-1989



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

### **THEODORE LEAL TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash

T 27 Sieve Analysis, Fine & Coarse Agg.

R30 Mixture Conditioning of HMA

T 84 Bulk SpG (SSD) of Fine Aggr.

T 85 Bulk SpG (Oven Dry), Coarse Agg.

T 96 LA Rattler

T 176 Sand Equivalent

T 209 Theoretical Max. SpG (Method A)

T 269 % Air Voids

T 275 Bulk SpG, Compacted HMA, Paraffin

T 283 Moisture-Induced Damage

T 304 Uncompacted Void Content, Fine

T 308 Binder Content, Ignition, Method A

T 312 Superpave Gyrotory Compactor

T 324 Hamburg Wheel-Track Testing

T248 Reducing Sample of Agg

T 335 Fractures in Coarse Aggregate.

D7741 Apparent Viscosity

D 4791 Flat & Elongated Particles

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat**\_\_\_\_\_

Certified Independent Assurance (IA) Number **#107**\_\_\_\_\_

Date Issued: **04/15/15** Expires **4/17** Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TED LEAL**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -371-RESISTANCE TO MOISTURE
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211
04/17	.....	<input checked="" type="checkbox"/> CTM -234,235
05/17	.....	<input checked="" type="checkbox"/> CTM -204,214,301,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Luis Maca  
**Position:** Quality Assurance Technician II  
**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Maca is responsible for various testing procedures at the Perkins and Woodland Quality Assurance Labs for the Aggregates and Hot Mix Asphalt facilities. Mr. Maca maintains the quality of the materials being produced at these facilities and is also responsible for sampling and providing materials being produced to outside agencies and customers when requested to do so.

### EDUCATION / QUALIFICATIONS:

Mr. Maca graduated from Cache Creek High School in Yolo, CA in 2009. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood & Woodland Aggregates and Hot Mix Asphalt facilities. Mr. Maca has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture

- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP

#### Damage

- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**LUIS MACA**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**LUIS MACA**

of  
**TEICHERT-PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,211,212,214
04/17	.....	<input checked="" type="checkbox"/> CTM -384-
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** John Scroggins

**Position:** Quality Assurance Technician II

**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Scroggins is responsible for various testing procedures in the Perkins Quality Assurance Lab for the Aggregates and Hot Mix Asphalt facilities including the following:

- Moisture Content
- Sand Equivalent
- Durability Index
- T.S.R.
- Specific Gravity of Coarse Material, Fine Aggregates, Soils
- Crushed Particles
- Sampling/Gradations of Aggregates and Asphalt
- Sample Preparation
- Sieve Analysis
- Theoretical Maximum Specific Gravity of Bituminous Mixtures
- Asphalt Binder Content by Ignition Oven

### EDUCATION / QUALIFICATIONS:

Mr. Scroggins graduated from Redwood High School in Visalia, CA and attended College of the Sequoias and San Diego State University. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood, Woodland, Martis, Vernalis and Cool Cave Aggregates and Hot Mix Asphalt facilities. Mr. Scroggins has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse

- CTM 207 Specific Gravity and Absorption of Fine Aggregate
  - CTM 211 Abrasion of Coarse Aggregate by LAR
  - CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
  - CTM 217 Sand Equivalent
  - CTM 226 Moisture Content
  - CTM 227 Cleanness of Coarse Aggregate
  - CTM 229 Durability
  - CTM 234 Uncompacted Void Content of Fine Aggregate
  - CTM 235 Flat and Elongated Particles
  - CTM 304 HMA Preparation for Testing
  - CTM 308 Bulk Spgr. of HMA Briquettes
  - CTM 309 Rice Spgr. and Density of HMA
  - CTM 366 Stabilometer
  - CTM 370 HMA Moisture (Microwave)
  - CTM 371 Moisture Sensitivity (TSR)
  - CTM 379 Percent Asphalt (Nuclear)
  - CTM 382 Percent Asphalt
  - CTM 384 Gradations for HMA using up to 25% RAP
- Aggregate
  - T 96 LA Rattler
  - T166 Bulk Specific Gravity of Compacted HMA by SSD
  - T 176 Sand Equivalent
  - T 209 Theoretical Max Density
  - T 210 Aggregate Durability Index
  - T 248 Reducing Samples of Aggregate
  - T 255 Moisture Content by Oven
  - T 269 Percent Air Voids
  - T 275 HMA Bulk Spgr. (Paraffin)
  - T 283 Resistance of HMA to Moisture Damage
  - T 304 Fine Aggregate Angularity
  - T 308 Binder Content Method A
  - T 312 Superpave Gyratory Compactor
  - T 324 Hamburg Wheel Track Test
  - T 329 Moisture Content of HMA, Oven Dry
  - T 335 Crushed Particles
  - D 4791 Flat and Elongated



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JOHN SCROGGINS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JOHN SCROGGINS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
04/17	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
04/17	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
04/17	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206, 207,211,234,235,
04/17	.....	<input checked="" type="checkbox"/> CTM -371,384
05/17	.....	<input checked="" type="checkbox"/> CTM 204,214
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester complies with applicable requirements in Caltrans'

Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Brandon Snyder  
**Position:** Quality Assurance Technician III  
**Employer:** Teichert Aggregates - Quality Assurance Laboratory

### AREA OF RESPONSIBILITY

Mr. Snyder has performed various testing procedures at the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. Mr. Snyder is also responsible for the testing of production materials within the lab to ensure materials being produced meet the specified standards. Mr. Snyder works closely with the Senior Technician and Supervisors to ensure that materials are being tested properly and in a timely manner for reporting to Caltrans and various local agency personnel.

### EXPERIENCE

Since August 2004, Mr. Snyder has been employed by Teichert Aggregates' Quality Assurance Department. Mr. Snyder has performed various Quality Assurance duties involving aggregates, soils, and asphalt testing after receiving training through Teichert's In House Training Program. Mr. Snyder has performed work for various Caltrans and local agencies public works jobs as a sampler and tester of HMA and aggregate materials.

### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)  
ACI Concrete Field Technician Level 1  
Asphalt Institute Certification HMA Mix Design Class

#### Current Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index

- by Use of Sodium Sulfate
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyrotory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

### **Training**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

### **EDUCATION**

Cordova High school 2003  
 American River College 2004-2005  
 Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**BRANDON SNYDER**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-<math>\mu</math>m, Wash</u>	<u>T 269 % Air Voids</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>
<u>T 30 Mechanical Analysis of Ext Agg.</u>	<u>T 283 Moisture-Induced Damage</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>T 96 LA Rattler</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 166 Bulk SpG &amp; Compacted Saturated</u>	<u>T324 Hamburg Wheel-Track Testing</u>
<u>T 176 Sand Equivalent</u>	<u>T 329 Moisture Content of HMA, Oven Dry</u>
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 210 Aggregate Durability Index</u>	
<u>T 248 Reducing Field Samples</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 255 Moisture Content by Oven</u>	<u>D 7741 Viscosity</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107

*Jackie Guat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**BRANDON SNYDER**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Taylor Theis

**Position:** QA Technician I

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mrs. Theis is currently responsible for various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. On a regular basis Mrs. Theis monitors the production of aggregate and asphalt materials using test procedures such as gradation, sand equivalent, durability index, cleanness value, moisture content of aggregate and asphalt, as well as oil content. She is also responsible for coordinating with outside agencies such as City, County, and State Inspectors to sample and split material for Quality Assurance Testing

### QUALIFICATIONS/EXPERIENCE:

Mrs. Theis has been employed by Teichert Aggregates' Quality Assurance Department beginning in 2015. She has received extensive training through an in house training program. She has experience at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 304 HMA Preparation for Testing
- CTM 309 Rice Spgr. and Density of HMA
- CTM 382 Percent Asphalt
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 329 Moisture Content of HMA, Oven Dry

**TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value  
AC Content by Ignition and Nuclear Methods

**EDUCATION:**

Christian Brothers High School, 2010  
High School Diploma

San Diego Mesa College  
2010 – 2011

Folsom Lake Community College  
2011 - 2013



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

### TAYLOR THEIS TEICHERT

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 304 Uncompacted Void Content, Fine
T 84 Bulk SpG (SSD) of Fine Aggr.	T 308 Binder Content, Ignition, Method A
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 329 Moisture Content of HMA, Oven Dry
T 96 LA Rattler	T 335 Fractures in Coarse Aggregate.
T 166 Bulk SpG & Compacted Saturated	D 4791 Flat & Elongated Particles
T 176 Sand Equivalent	
T 209 Theoretical Max. SpG (Method A)	
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Jackie Treat *Jackie Treat*

**Date Issued:** 05/11/16 **Expires** 05/17 **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TAYLOR THEIS**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
Expiration Date                      Test Method

		CTM 105 – CALCULATIONS
		<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
05/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
05/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
05/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
		<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
05/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
05/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
05/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
		<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
05/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
		<input type="checkbox"/> CTM 366 – STABILOMETER
		<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
		<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
		<input type="checkbox"/> CTM -204,206
		<input type="checkbox"/> CTM -207,211
		<input type="checkbox"/> CTM -212,213,214,
		<input type="checkbox"/> CTM -234,235,371
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

KEVIN ESPINOZA  
District 03 Materials Engineer

*Jackie Treat*

Jackie Treat      Certified Independent Assurance (IA) #107

Date Issued 05/11/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

<b>Expiration date:</b>	<u>3/20/2017</u>
<b>Inspected by:</b>	<u>Jackie Treat</u>
<b>IA No.:</b>	<u>#107</u>
<b>Phone:</b>	<u>530-741-4131</u>
<b>File: Materials Category</b>	<b>500</b>

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>				
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>				
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u>	<b>Zip:</b>	<u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>		
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>		

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the  
 the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods  
 indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate  
 of Proficiency Form TL-0111 prior to performing any sampling or testing.

CTM 105, 125, 201, 202, 204, 205, 206, 207,208, 211, 212,214,  
217, 226, 227, 229, 234, 235,301, 304, 308, 309, 366,367, 370, 371  
375,379, 382, 384

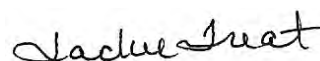
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

<b>Expiration date:</b>	<u>3/20/2017</u>
<b>Inspected by:</b>	<u>Jackie Treat</u>
<b>IA No.:</b>	<u>#107</u>
<b>Phone:</b>	<u>530-741-4131</u>
<b>File: Materials Category</b>	<b>500</b>

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>				
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>				
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u>	<b>Zip:</b>	<u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>		
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>		

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 the National Highway System was checked for qualification.

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 indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate  
 of Proficiency Form TL-0111 prior to performing any sampling or testing.

AASHTO R18,R30,R35, R47 ,R58, T2, T11 T19,T21,T27, T30, T37,T39, T84, T85, T90,T96, T104, T112,T166, T167,  
T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T308, T309, T312, 324,T329,T331,  
T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791

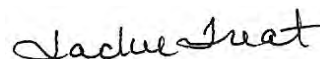
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



## Teichert Quality Assurance

**Sacramento, California**

[Show This Entry Only](#)

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

Fax:

[jblumer@teichert.com](mailto:jblumer@teichert.com)

<http://www.teichert.com>

**16-7497** : Accreditation has been suspended for Asphalt Mixture method(s) T30, D5444

**Quality Management System** - accredited since 2/1/1997

R18, C1077 (Aggregate), C1077 (Concrete), D3666 (Aggregate), D3666 (Asphalt Mixture)

**Asphalt Mixture** - accredited since 2/21/2013

R47, R68, T166, T167, T209, T245, T246, T247, T269, T275, T283, T305, T308, T312, T324, T329, D1074, D1075, D1188, D1560 (Stability), D1561, D2041, D2726, D2950, D3203, D4867, D6307, D6390, D6925, D6926, D6927, D6931

**Soil** - accredited since 2/21/2013

R58, T88, T89, T90, T99, T100, T146, T176, T180, T190, T265, D421, D422, D698, D854, D1140, D1557, D2216, D2419, D2844, D4318

**Aggregate** - accredited since 2/21/2013

T2, T11, T19, T21, T27, T37, T84, T85, T96, T104, T112, T176, T210, T248, T255, T304, T335, C29, C40, C88, C117, C127, C128, C131, C136, C142, C535, C566, C702, C1252, D75, D546, D2419, D3744, D4791, D5821

**Concrete** - accredited since 2/1/1998

M201, R39, R60, T22, T23, T97, T119, T121, T152, T196, T309, C31, C39, C78, C138, C143, C172, C173, C192, C231, C511, C1064, C1231 (7000 psi and below)

Please note that our accreditations do not include an expiration date. An accreditation only expires when the laboratory fails to comply with our accreditation requirements.

\* This information is only valid as of 7/11/2016. Please visit <http://www.amrl.net> for current accreditation status.



Submittal Cover Sheet  
 1016 North Market Blvd. Suite 20  
 Sacramento, CA 95834  
 916-372-8910 Fax 916-372-8913

M&H S# 067

Submitted To: Carl Sloan  
 Address: 549 Main Street  
 Placerville, CA 95667  
 Attention: Carl Sloan  
 Phone: 916-218-8432

Project Title Blairs Lane Bridge Replacement  
 Contract No. 40604 M&H Job # 3926  
 Location Placerville, CA  
 1st \_\_\_ 2nd \_\_\_ 3rd \_\_\_ other \_\_\_  
 Sub/Vender Teichert Materials  
 Contact Don Bates  
 Telephone 916-825-5070 Sub/Ven Subm'l # 4

ACTION TAKEN						M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved						Subcontractor to Contractor								
AAN- Approved as Noted						Contractor to Owner	12/09/16			X				
RR- Revise & Resubmit						Owner to Consultant								
R- Rejected						Consultant to Owner								
AR- Acknowledge Receipt						Owner to Contractor								
RWR- Return W/o Review						Contractor to Subcontractor								
A	AAN	RR	R	AR	Specification No.		Description							
					Caltrans Section 39		1/2" 64-10 Hot Mix Asphalt with Evotherm M1 Additive							

We verify that the material transmitted herein is in compliance with the Contract Specifications:

With no Exceptions       Except for the following deviations

Comments: \_\_\_\_\_

*Arnie Garcia*

McGuire and Hester

Review Comments: \_\_\_\_\_



**A. TEICHERT & SON, INC.**

*Established 1887*

December 8, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Hugo Gutierrez

Re: Blairs Lane

Dear Hugo,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement with Evotherm M1 for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP and Evotherm M1 complies with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 3/2/2016  
 Plant: Perkins GenCor  
 Agg Source: S.M.A.R.A. # 91-34-0037  
 Asphalt: PG64-10

Type: 1/2" Max. Med. Type A w/15% RAP  
 w/ 0.3% Evotherm M1 Warm Mix  
 Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin			Dust	Sand	RAP
		Size	1/2"	3/8"			
% Used		100	15	18	41	11	15
50.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
37.5mm	<b>100</b>	<b>100</b>	100	100	100	100	100
25.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
19.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
12.5mm	<b>90 - 100</b>	<b>96</b>	71	100	100	100	100
9.5mm	<b>78 - 90</b>	<b>84</b>	19	78	100	100	99
4.75mm	<b>53 - 67</b>	<b>60</b>	3	3	90	100	74
2.36mm	<b>35 - 45</b>	<b>40</b>		1	55	88	52
1.18mm	-	<b>28</b>			35	72	40
600µm	<b>16 - 24</b>	<b>20</b>			25	46	31
300µm	-	<b>14</b>			21	17	22
150µm	-	<b>9</b>			15	4	15
75µm	<b>3.5 - 7.5</b>	<b>5.5</b>			9.5	0.9	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	<b>5.5</b> *	N/A
AIR VOIDS %	C.T.M.367	<b>4.0</b>	4.0%
UNIT WEIGHT Kg M³	C.T.M.308-A	<b>2.441</b>	N/A
RICE UNIT WEIGHT Kg M³	C.T.M. 309	<b>2.543</b>	N/A
STABILOMETER VALUE	C.T.M.366	<b>38</b>	37 min
Dust Proportion	LP-4	<b>1.2</b>	0.6 - 1.2
VMA	LP-2	<b>14.2</b>	14.0 min
VFA	LP-3	<b>73</b>	65 - 75
FAA	AASHTO T304	<b>46</b>	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Revs.	CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity	CTM 206/208	2.728	2.673	N/A
COMBINED SP.GR.=	2.725			

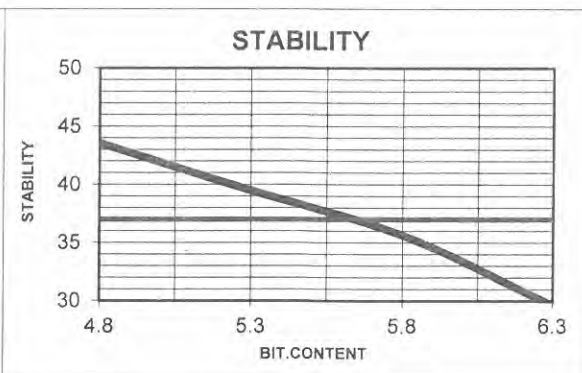
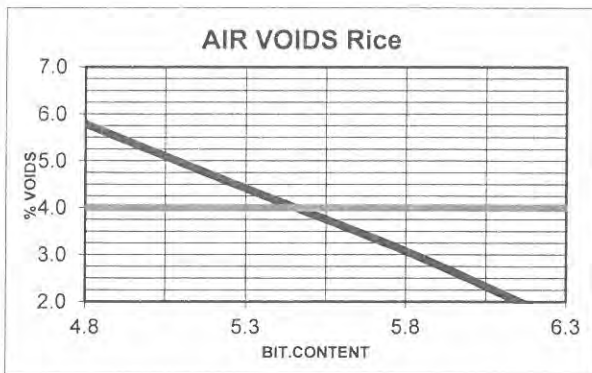


**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.0	63.8	63.5	63.5	64.0	63.0	63.2
HEIGHT IN.	2.52	2.51	2.50	2.50	2.52	2.48	2.49
500							
1000							
2000							
3000							
4000							
5000	36	41	48	59	43	45	42
6000							
URNS DIS.	2.91	2.98	2.94	3.05	3.00	2.98	3.12
STABILITY	<b>44</b>	<b>39</b>	<b>36</b>	<b>30</b>	<b>38</b>	<b>37</b>	<b>38</b>

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1241.7	1250.2	1258.6	1262.9	1252.8	1255.6	1256.0
WAX AIR	1262.0	1267.5	1272.5	1277.6	1271.3	1272.8	1274.4
WAX H2O	726.4	735.4	744.2	751.0	737.1	740.8	740.5
CTM 308 SP.GR.	2.420	2.438	2.454	2.475	2.439	2.448	2.446
CTM 309 MAX SPGR	2.569	2.550	2.532	2.514	2.543	2.543	2.543
CTM 367 AIR VOIDS%	5.8	4.4	3.1	1.6	4.1	3.7	3.8
UNIT WT. FLUSHING	151.0	152.1	153.1	154.4	152.2	152.8	152.6



STEP				
4	Max Asphalt Content with 4 or more % Voids		5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8
1	DESIGN SET	4.8	5.3	5.8 6.3
* OPTIMUM BITUMEN CONTENT=			<b>5.5</b>	
RECOMMENDED RANGE=		5.2		5.5



## Section 1. Identification

GHS product identifier : EVOTHERM® M1  
Chemical name : Fatty amine derivatives  
Product type : Liquid

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Asphalt additive

Material uses : Asphalt additive

Manufacturer : MeadWestvaco Corporation  
Specialty Chemicals Division  
5255 Virginia Avenue  
North Charleston, South Carolina USA 29405-5615  
msds@mwv.com  
  
Telephone no.: +1 843 740 2236, +1 800 458 4034  
Hours of operation: 0800 - 1700 EST

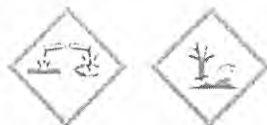
Emergency telephone number (with hours of operation) : +1 703 527 3887 (USA)  
4001-204937 (in China)  
CHEMTREC International

## Section 2. Hazards identification

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC TOXICITY (ACUTE) - Category 1  
AQUATIC TOXICITY (CHRONIC) - Category 1

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Causes serious eye damage.  
Causes skin irritation.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Recommended: Safety glasses with side shields, splash goggles, or face shield. Avoid release to the environment. Wash hands thoroughly after handling.

Response : Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Not applicable.

## Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance  
Chemical name : Fatty amine derivatives  
Other means of identification : Not available.

### CAS number/other identifiers

CAS number : Not available.  
EC number : Not available.

Ingredient name	%	CAS number
Fatty amine derivatives	100	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First-aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes skin irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use any extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Dispose of according to all federal, state and local applicable regulations.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 5 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: Safety glasses with side shields, splash goggles, or face shield.

### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat, apron or coveralls
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Amber, [Dark]
- Odour** : Amine-like.
- Odour threshold** : Not available.
- pH** : 10 to 12 [Conc. (% w/w): 15%]
- Melting point** : <25°C (<77°F)
- Boiling point** : >200°C (>392°F)
- Flash point** : Closed cup: >204.4°C (>399.9°F) [Pensky-Martens ]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : <1.0 x 10<sup>-12</sup> mmHg @25 °C
- Vapour density** : Not available.
- Relative density** : 0.97 [Water = 1]
- Solubility** : Partially soluble in the following materials: cold water and hot water.
- Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.
- Other** : Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, metals and acids. DO NOT MIX WITH NITRITES. MAY FORM SUSPECTED CANCER CAUSING NITROSAMINES.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.



## Section 11. Toxicological information

### Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact : Causes skin irritation.
- Ingestion : May cause burns to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation : No specific data.
- Skin contact : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

#### Long term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

- General : No known significant effects or critical hazards.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : No known significant effects or critical hazards.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours 96 hours

### Persistence/degradability

Not available

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % - 28 days	-	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty amine derivatives	-	-	Not readily

### Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition  
coefficient (K<sub>oc</sub>) : 5.8

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.


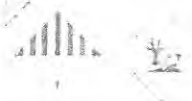


The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL

## Section 13. Disposal considerations

PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	UN	IMDG	IATA	DOT Classification
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Special provisions</u> 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Emergency schedules (EmS)</u> F-A, S-F  <u>Special provisions</u> 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Passenger and Cargo Aircraft</u> Quantity limitation: 450 L Packaging instructions: 964 <u>Cargo Aircraft Only</u> Quantity limitation: 450 L Packaging instructions: 964	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.  <u>Limited quantity</u> Yes.

## Section 14. Transport information

			<u>Limited Quantities</u> <u>- Passenger</u> <u>Aircraft</u> Quantity limitation: 30 kg Packaging instructions: Y954	<u>Special provisions</u> 8, 146, 173, 335, 183, T4, TP1, TP29
			<u>Special provisions</u> A97, A158	

## Section 15. Regulatory information

### China

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

China inventory (IECSC) : This material is listed or exempted.

### List of Goods banned for Importing

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Japan

#### Japan Control Law

Explosives Control Law : Not applicable.

High Pressure Gas Control Law : Not applicable.

Law

Fire Service Law : Class 4; Type 4 petroleum Designated quantity : Not available.

Fire Service Law : Not available. Designated quantity : Not available

Substance to report : Not applicable. Designated quantity : Not available.

Fire Service Law - Obstructive materials : Not listed

Characteristics : Not available.

Danger class : Not available.

#### Poisonous and Deleterious Substances

Use of specified chemical substances : Not available.

ISHL : Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation : Not applicable.

## Section 15. Regulatory information

Occupational diseases	: Not available.
Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster	: Marine pollutant: P
Notification Regulating Transportation of Dangerous Materials by Sea	: Not available.
Civil Aeronautics Law	: Not available.
Pollutant Release and Transfer Registers (PRTR)	: Not listed
Road law	: Not applicable.
JSOH Carcinogen	: Not listed
ISHL Prevention of Tetraalkyl Lead Poisoning	: Not listed
ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
ISHL Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Chemicals requiring notification	: Not listed
ISHL Dangerous Substances	: Not listed
List of Specially Controlled Industrial Waste	: Not listed

### Chemical Substances Control Law (CSCL)

Not available.

Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory	: This material is listed or exempted.
Other regulations	: Not available.
Safety, health and environmental regulations specific for the product	: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### South Korea

#### A. Regulation according to ISHA

ISHA Article 37	: This material is not listed.
ISHA Article 38	: This material is not listed.

#### B. Regulation according to TCCA

TCCA Toxic chemicals	: Not applicable
TCCA Observational chemicals	: This material is not listed.

## Section 15. Regulatory information

- TCCA Article 32 (Banned) : This material is not listed.
- TCCA Article 32 (Restricted) : This material is not listed.
- TCCA Article 17 (TRI) : This material is not listed.
- Korea inventory : This material is listed or exempted.
- C. Dangerous Materials Safety Management Act : Not available.
- D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- E. Regulation according to other foreign laws
- Europe inventory : This material is listed or exempted.
- United States inventory (TSCA 8b) : This material is listed or exempted.
- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).
- International lists : Japan inventory: This material is listed or exempted.  
Korea inventory: This material is listed or exempted.  
Europe inventory: This material is listed or exempted.  
United States inventory (TSCA 8b): This material is listed or exempted.  
Australia inventory (AICS): This material is listed or exempted.  
China inventory (IECSC): This material is listed or exempted.  
Malaysia Inventory (EHS Register): Not determined.  
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.  
Philippines inventory (PICCS): This material is listed or exempted.  
Taiwan inventory (CSNN): This material is listed or exempted.  
Canada inventory: This material is listed or exempted.

### Brazil

- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

### History

- Date of issue/Date of revision : 10/18/2013.
- Date of previous issue : 10/01/2013.
- Version : 5
- Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods

## Section 16. Other information

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

### References

Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Submittal Cover Sheet  
 1016 North Market Blvd. Suite 20  
 Sacramento, CA 95834  
 916-372-8910 Fax 916-372-8913

M&H S# 059

Submitted To: Carl Sloan  
 Address: 549 Main Street  
 Placerville, CA 95667  
 Attention: Carl Sloan  
 Phone: 916-218-8432

Project Title Blairs Lane Bridge Replacement  
 Contract No. 40604 M&H Job # 3926  
 Location Placerville, CA  
 1st \_\_\_ 2nd \_\_\_ 3rd \_\_\_ other \_\_\_  
 Sub/Vender Teichert Materials  
 Contact Don Bates  
 Telephone 916-825-5070 Sub/Ven Subm'l # 3

ACTION TAKEN						M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved						Subcontractor to Contractor								
AAN- Approved as Noted						Contractor to Owner	07/27/16			X				
RR- Revise & Resubmit						Owner to Consultant								
R- Rejected						Consultant to Owner								
AR- Acknowledge Receipt						Owner to Contractor								
RWR- Return W/o Review						Contractor to Subcontractor								
A	AAN	RR	R	AR	Specification No.	Description								
					Caltrans Section 39	1/2" 64-10 Hot Mix Asphalt								

We verify that the material transmitted herein is in compliance with the Contract Specifications:

With no Exceptions       Except for the following deviations

Comments: \_\_\_\_\_  
 \_\_\_\_\_

*Arnie Garcia*

McGuire and Hester

Review Comments: \_\_\_\_\_  
 \_\_\_\_\_

City of Citrus Heights      Submittal No. 59

Received and Filed  
 Approved  
 Approved as Noted:  
 Revise and Resubmit  
 Rejected

Signature:       Date: 8-3-16





**A. TEICHERT & SON, INC.**

*Established 1887*

July 27, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Arnie Garcia

Re: Blairs Lane

Dear Arnie,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP comply with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor



10090 Waterman Rd.  
Elk Grove, CA 95624  
Phone: (916) 685-9253

John Schmidt  
Teichert Aggregates  
3500 American River Dr.  
Sacramento Ca. 95824

Dear John,

In regards to your question about Paramount Petroleum's PG 64-10, I would like to assure you that Paramount's PG 64-10 will meet all Caltrans specifications for PG 64-16. Paramount is currently on Caltrans list of approved suppliers and also a member of their COC program which requires us to submit to them numerous PG grade samples to their lab for specification compliance each week.

If you have any further questions please don't hesitate to call.

Thank You,  
Jack

Jack Dougherty  
Divisional Manager  
Asphalt R&D and Field Engineering Support  
Paramount Petroleum / Alon USA  
10090 Waterman Road  
Elk Grove, Ca. 95624  
Phone: (916) 685-9253  
Cell: (916) 826-3243  
Fax: (916) 685-8701  
[jdougherty@ppcla.com](mailto:jdougherty@ppcla.com)

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins Batch Plant  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin	3	2	1	BHD	RAP
		Size					
% Used		100	11	26.5	47	0.5	15
2"	100	100	100	100	100	100	100
1 1/2"	100	100	100	100	100	100	100
1"	100	100	100	100	100	100	100
3/4"	100	100	100	100	100	100	100
1/2"	90 - 100	96	62	100	100	100	100
3/8"	78 - 90	84	3	82	100	100	99
#4	54 - 68	61	1	15	96	100	74
#8	37 - 47	42		1	70	100	52
#16	-	28			46	100	40
#30	17 - 25	21			33	100	31
#50	-	14			22	99	22
#100	-	9			14	92	15
#200	3.7 - 7.7	5.7			8.0	76.0	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451 152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554 159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

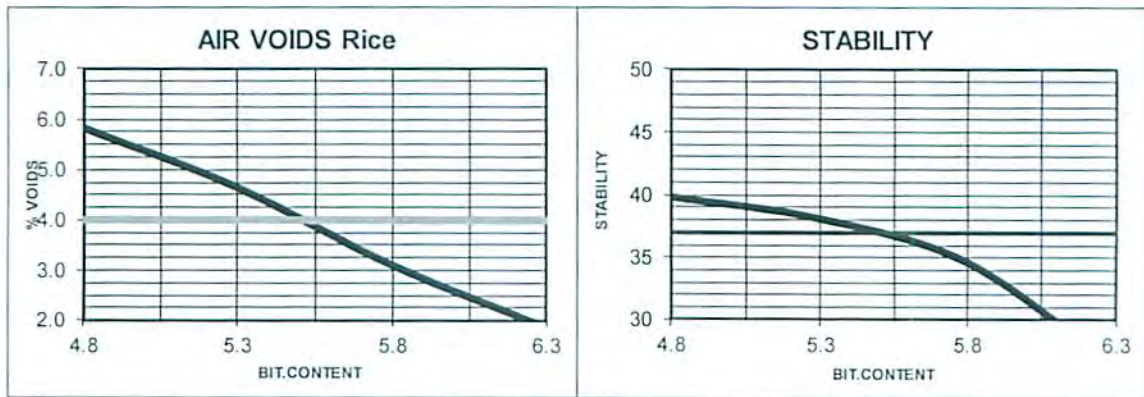
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
Flat & Elongated (3:1) ASTM D 4791	5.7		
(5:1)	3.2		
Specific Gravity CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0		

1/2" Max. Medium "A" w/RAP (Batch Plant)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.5	64.3	64.3	64.0	63.5	63.8	62.7
HEIGHT IN.	2.54	2.53	2.53	2.52	2.50	2.51	2.47
500	10	10	12	13			
1000	14	14	20	20			
2000	21	22	28	30			
3000	28	30	36	42			
4000	35	39	44	57			
5000	41	46	53	75	44	43	45
6000	49	58	65	93			
URNS DIS.	2.94	2.78	2.75	2.71	3.12	2.99	2.95
STABILITY	40	38	35	26	37	38	37

AIR VOIDS DETERMINATION ( C.T.M. 367)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1245.8	1254.5	1257.0	1266.5	1256.0	1254.3	1252.9
WAX AIR	1255.1	1264.2	1266.7	1275.8	1268.8	1270.1	1269.6
WAX H2O	730.7	738.5	744.6	753.3	741.1	740.9	739.8
CTM 308 SP.GR.	2.423	2.436	2.458	2.473	2.446	2.452	2.451
CTM 309 MAX SPGR	2.574	2.555	2.537	2.519	2.554	2.554	2.554
CTM 367 AIR VOIDS%	5.8	4.6	3.1	1.8	4.2	4.0	4.0
UNIT WT. FLUSHING	151.2	152.0	153.4	154.3	152.6	153.0	152.9



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins (Drum)  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium Type "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
1 1/2"	100	100	100	100	100	100	100	
1"	100	100	100	100	100	100	100	
3/4"	100	100	100	100	100	100	100	
1/2"	90 - 100	96	71	100	100	100	100	
3/8"	78 - 90	84	19	78	100	100	99	
#4	54 - 68	61	3	3	86	100	74	
#8	37 - 47	42		1	55	90	52	
#16	-	30			35	75	40	
#30	17 - 25	21			25	50	31	
#50	-	14			21	17	22	
#100	-	9			15	4	15	
#200	3.7 - 7.7	5.7			9.2	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451    152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554    159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	70 min
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

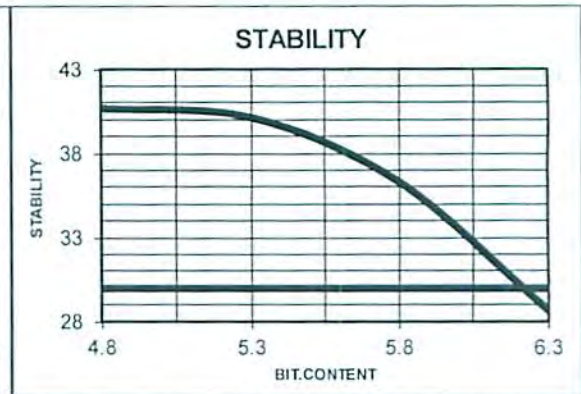
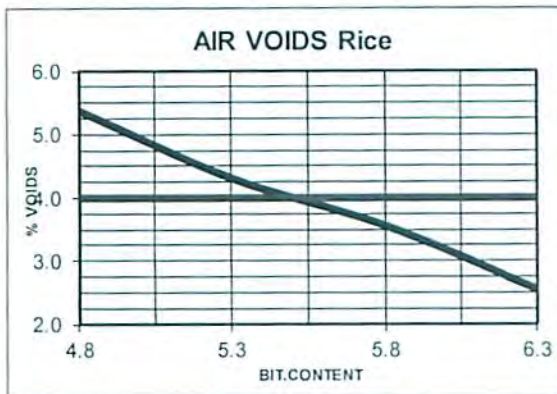
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Revs.	CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Flat & Elong. (3:1)	ASTM D4791	5.7		
Flat & Elong. (5:1)	ASTM D4791	3.2		
Specific Gravity	CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0			

1/2" Max. Medium Type "A", Perkins Drum Plant  
**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	63.5	63.2	62.7	62.5	63.0	63.8	63.8
HEIGHT IN.	2.50	2.49	2.47	2.46	2.48	2.51	2.51
500	10	9	9	10			
1000	13	13	14	14			
2000	18	20	22	23			
3000	23	25	30	31			
4000	30	32	37	39			
5000	37	38	48	57	43	40	46
6000	45	52	60	61			
URNS DIS.	3.18	3.16	2.86	3.33	3.01	3.15	2.97
STABILITY	41	40	36	29	38	39	37

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1215.4	1218.8	1223.9	1233.3	1221	1223.1	1220.8
WAX AIR	1224.4	1230.5	1234.8	1246.4	1232.5	1235.6	1231.1
WAX H2O	714.5	718.2	721.7	728.8	722.5	720.2	719.5
CTM 308 SP.GR.	2.431	2.441	2.443	2.452	2.456	2.439	2.441
CTM 309 MAX SPGR	2.570	2.551	2.533	2.516	159.120	159.120	159.120
CTM 367 AIR VOIDS%	5.4	4.3	3.6	2.5	98.5	98.5	98.5
UNIT WT. FLUSHING	151.7	152.3	152.4	153.0	153.2	152.2	152.3



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

<b>CONTRACT CHANGE ORDER MEMORANDUM</b> CEM-4903 (REV06/2006)			Date: 01/23/2016	
To City Of Placerville			<b>Blairs Lane Bridge Replacement</b>	
From UNICO Engineering, Inc., Carl Sloan, RE			Prj # 40604 Fed No.: BRLO 5015 (009)	
CCO No <b>12</b>			Contingency Balance (Including this change)	
CCO Amount <b>\$36,900.00</b> <input checked="" type="checkbox"/> Increase <input type="checkbox"/> Decrease			Is this request in accordance with environmental documents? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Original Contract Working Days:  <u>170</u>	Time Adjustment This Change:  <u>0</u> Day(s)	Previously-Approved CCO Time Adjustments  <u>21</u> Day(s)	Percentage Time Adjusted To Date (Including this change)  <u>12%</u>	Total Number Of Unreconciled Deferred-Time CCO's (Including this change)  <u>0</u>

**This Change Order provides for:**

The installation of the Sanitary Sewer pump station for the Caltrans Yard. This additional work is a result of the Sewer redesign which raised the sewer line causing the need for a sanitary sewer pump station to serve the Caltrans Yard and Office facilities.

**Extra Work Calculations:****Working Days:**

No additional working days are granted.

**Total CCO 10 Cost – \$36,900, 0 Additional Working Days**

**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>11</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order must be approved by the City Council:**  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

This Change Order changes the Contract in accordance with the attached Field Change Directive (FCD) 17R1. This Change Order hereby modifies Specification Section 39 Hot Mix Asphalt to allow paving when ambient temperatures are 40 degrees and rising, and when surface temperatures are above 32 degrees.

Estimated Cost:  Decrease  Increase **Deferred**

By reason of this order the time of completion will be adjusted as follows: **No additional working days granted**


**Submitted by**

SIGNATURE 	(PRINT NAME & TITLE) <b>Rebecca Neves P.E., City Engineer</b>	DATE 12/21/16
--	--	------------------

**Approved**

SIGNATURE	(PRINT NAME & TITLE) <b>Cleve Morris, City Manager</b>	DATE
-----------	---	------

**Approved**

SIGNATURE 	(PRINT NAME & TITLE) <b>Resident Engineer</b>	DATE 12/21/16
---	--	------------------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.**

**Contractor Acceptance by**

SIGNATURE	(PRINT NAME & TITLE)	DATE
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**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)  
**FIELD CHANGE DIRECTIVE #17R1**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17R1**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/20/2016**

**DESCRIPTION OF CHANGE:**

In addition to documentation provided via FCD 17, this revision includes direction to M&H to pave the project in compliance with the contract and the attached redlined QC Plan.

M&H has stated that paving can be completed in one shift. Paving shall occur in a single shift on 12-21-16 or 12-22-16 at M&H's option. Geocon shall perform QA/QC role. Areas of AB that show minor rutting (in front of Caltrans and PG&E driveway approximately 105+75 to 106+25) shall be finish rolled with a static roller prior to paving. Paving shall begin when conditions identified by Geocon in referenced letter are met. In addition, temperature of AB shall be a minimum of 32 degrees.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

Ambient temperatures are below minimum temperatures as defined in Specification Section 39-3.04.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



December 20, 2016

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: Section 39-2.02 – Quality Control Plan (Revision 1) – Standard Construction Process – Asphalt Paving

Mr. Sloan:

The following Quality Control Plan will be executed in compliance with Section 39-2 Standard Construction Process for the ½" Medium Type "A" HMA PG64-10 w/15% Reclaimed Asphalt Pavement. Quality Control Material Testing will be completed by the Teichert Aggregates at the Perkins Plant located at;

- 8760 Kiefer Blvd. Sacramento, Ca. 95826.

Quality Control Organization - Teichert Aggregates Quality Assurance Team:

- Teichert Aggregates – Mike Kucunik - 916-386-6988
  - Mike Kucunik. - Quality Assurance Supervisor for the Blairs Lane Project.
  - Eric Gifford. - Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt Concrete Supervising Laboratory Technician.
  - Trenton Crouse. - Quality Assurance technician III.
  - James Haas. - Technician III.
  - Theodore Leal. - Technician III.
  - Luis Maca. - Quality Assurance Technician II.
  - John Scroggins. - Quality Assurance Technician II.
  - Brandon Snyder. - Quality Assurance Technician III.
  - Taylor Theis. - Quality Assurance Technician I.
- Attached is a copy of the CALTRANS Qualified Laboratory Inspection Report for the Teichert Perkins Plant for sampling and testing.
  - Inspected by – CALTRANS, Jackie Treat, (#107).
  - (A list of certifications for the Teichert Perkins Laboratory is included).
- A copy of the approved submittal #59 – ½" 64-10 HMA Type "A" w/15% RAP.
- Material Testing at the Teichert Perkins Plant will be completed per the CALTRANS Standard Specification Section 39-22.02B, "Minimum Quality Control – Standard Construction Process".

All testing shall be performed per Section 39-202B. Moisture Susceptibility and Hamburg tests shall not be required.

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule:

Quality Control – Standard Construction Process			
<del>Quality Characteristic</del>	<del>Test Method</del>	<del>Min. Sampling &amp; Testing Frequency</del>	<del>HMA Type "A"</del>
<del>Aggregate Gradation</del>	<del>Ca. Test 202</del>	<del>1 test/per 750 Tons</del>	<del>JMF +/-</del>
<del>Sand Equivalent</del>	<del>Ca. Test 217</del>	<del>1 test/per 750 Tons</del>	<del>47</del>



(Tensile Strength Ratio, %)

Smoothness	Section 39-1.12B & D	TBD Onsite	12-Ft
• Profilograph not required.			
(McGuire & Hester)			Straight Edge

Paving Operations:

- Weather permitting; M&H will proceed with placement of the ½" Max. Med. Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement per the modified construction methods provided by GEOCON Consultants Inc. within the recommendation letter, dated December 6, 2016.
- Asphalt Plant Batching - Teichert Aggregates will batch the asphalt mix from its Perkins Plant (8760 Kiefer Blvd. Sacramento, Ca. 95826), at 325 degrees. ~~The City of Placerville Quality Assurance representative is needed at the Teichert Plant to preform Quality Assurance Testing.~~ **Teichert**
- Hauling - All loads batched from the Teichert Perkins plant will be loaded onto Transfer haul trucks. All loads will be tarped, per FCD 17. Loads not tarped will be rejected. Loads which are tarped but arrive with asphalt mix at a temperature below 280 degrees will be rejected; ~~all cost for the rejected asphalt mix including the hauling and paving crew cost impacts will be paid by the City of Placerville.~~ **Per approved submittal 59**. Determination of the rejected or acceptable loads will be made in coordination with McGuire & Hester and the City of Placerville's Quality Assurance Representative.
- Construction – M&H will place a single .3' section of asphalt mix, Per FCD 17.
  - M&H will begin its operation at the PG&E & Cal-Trans Driveways on Wednesday December 21, 2016 ~~including any deep lift sections determined by the QC/QA representative and M&H representative Johann Berg (Minor Hand Work may be needed).~~ **Finish roll with static roller.**
  - Blairs Lane roadway paving will begin on, December 22, 2016, from the Broadway intersection towards Baco Drive. (Minor Hand Work may be needed). **12-21 or 12-22 at M&H option.**
  - M&H will coat all concrete and asphalt vertical edges with SS-1 oil prior to placement of asphalt mix.
  - M&H will receive and place the asphalt mix with the Cat Paver 1055 D, (a Weiler Paver P 385A will be onsite for back up).
  - The CAT 67" CAT Roller CB 534D will complete the initial breakdown roll prior to the asphalt mix cooling to 250 degrees. (The 51" CAT Roller CB 334E may be required at various locations for initial breakdown). Adjustments will be determined in the field. Field compaction testing to be provided by Geocon.
  - The 51" CAT Roller CB 334E will complete the intermediate compaction.
  - The CAT 47" CB 224E will complete the finish breakdown.
  - The intermediate and final roller operators will ensure temperatures levels per the Geocon letter during the final paving operations.
  - Pavement Smoothness will be monitored by M&H w/12-foot straight edge.
    - No Profilograph required.

Driveways may be built first at M&H option.

Rollers shall be minimum of those required in Geocon letter.

Corrective Actions:

- Teichert Plant Technicians and M&H will coordinate and confirm the asphalt mix quality characteristics.
  - Corrective Actions; Determination of Corrective Actions, by McGuire and Hester Forman Johan Berg, during the operations will be completed in coordination with the City of Placerville QC/QA Representative - Geocon.
    - Any corrective actions to the AC mix design, batching, hauling, compaction methods, paving, or any other paving corrective actions will be identified and coordinated with the onsite QC/QC representative.
    - Any sub-grade (AB) repairs or concerns will be determined by M&H and identified to Geocon to determine the correct action needed. ~~Any cost impacts will be tracked and paid by the City of Placerville on force account/T&M.~~



If you have any questions, comments, and/or concerns with the Quality Control Plan as outlined please feel free to call me at 916-873-2690.

Sincerely,  
**McGuire & Hester**

A handwritten signature in black ink, appearing to read "Hugo Gutierrez", written over a horizontal line.

Hugo Gutierrez  
Senior Project Manger



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #17**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/9/2016**

**DESCRIPTION OF CHANGE:**

Cold Weather Paving Recommendations. See attached letter.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

These are recommendations for paving under 50 degrees.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

A handwritten signature in blue ink, appearing to read "C.A. Sloan".

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



Project No. S1080-05-01  
December 6, 2016

Carl A. Sloan, PE, MBA  
UNICO Engineering, Inc.  
110 Blue Ravine Road, Suite 101  
Folsom, California 95630

Subject: COLD WEATHER PAVING RECOMMENDATIONS  
BLAIRS LANE BRIDGE REPLACEMENT  
PLACERVILLE, CALIFORNIA

Dear Mr. Sloan:

As requested, we are providing this letter summarizing cold-weather paving recommendations. We understand that hot mix asphalt (HMA) paving of the Blairs Lane Bridge project is occurring this month. The project specifications require ambient air temperature to be 50° F and rising for paving operations, primarily to ensure that compaction can be achieved. Based on our experience, paving may occur at cooler temperatures such as 40° F and rising, provided some measures are taken to achieve proper compaction:

- Use the approved alternate HMA mix design (submittal 59)
- Batch the HMA at the highest temperature possible without compromising the integrity of the mix.
- Cover (tarp) all trucks transporting HMA. Any uncovered trucks arriving at the site should be rejected.
- The specified total HMA section thickness is 0.3 feet. We recommend placing the HMA in a single lift to increase the time duration that the HMA can be compacted, and therefore the probability that compaction will be achieved.
- Because of the larger lift thickness, start the breakdown roll as quickly as possible. Take measures to reduce the amount of “hand work” required to spread the HMA.
- Use a minimum of two 7-½-ton or larger dual drum vibratory rollers, one breakdown roller and one intermediate roller.
- HMA breakdown temperature should be no less than 250°F.
- Use a 4-ton or larger dual drum vibratory roller for final compaction.
- Final compaction should be achieved before the HMA mat cools below 150°F.

These recommendations are provided to assist the contractor in achieving the required compaction in cold weather conditions. All paving operations should be performed in the presence of our field representative, who will monitor HMA temperatures and perform compaction testing to help establish an appropriate compaction program. The contractor remains solely responsible for achieving the required compaction and constructing the pavement improvements in accordance with the projects plans and specifications.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in this area at this time. We make no warranty, express or implied.

Please contact us if you have any questions regarding this letter or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Jeremy J. Zorne, PE, GE  
Senior Engineer



Richard Church, PE,  
Project Engineer







**CITY OF PLACERVILLE, CALIFORNIA  
DEVELOPMENT SERVICES DEPARTMENT  
ENGINEERING DIVISION**

approved flyer. Flyers may be hand delivered or mailed. The City will supply a list of addresses after award of the project. Anticipate approximately 100 residences.”

6. On page TSP-4, After “TEMPORARY TRAFFIC CONTROL” Heading, add the following section:

**Add to section 12-1.01A:**

Two Portable Changeable Message Signs are required for the road closure and detour. Start displaying the message on the portable changeable message sign 2 weeks before closing the road at locations directed by the Engineer. The Engineer will determine the message to be displayed. Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.

7. On page TSP-7, in Section 12-5.04, add the following:

“Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.”

8. On page TSP-10, Section 13-3.01A; add the following:

“You are responsible for implementing the SWPPP and performing any corrective actions required by the Engineer. Payment for implementing the SWPPP and performing any corrections is included in the various water pollution control items and Job Site Management.”

9. On page TSP-33 and TSP-34, Delete Section 15-2.06B, “Destroy Monitoring Well”.

10. On page C-2 of the Contract (Agreement), in Article 5 “Indemnity,” Add Lakemont LLC as indemnified

11. The Contractor’s Bid and Bid Price Schedule. Pages P-4 thru P-10 are replaced with the attached ones and must be used when submitting your bid. The changes are as follows:

Item #26 “Destroy Monitoring Well” - Delete item

Item #61 “Erosion Control (Dry Seed)(SQFT) - Change the Quantity 3100 to 5000

Item #86 “60” Precast Concrete Pipe Manhole” – Change unit of measure from LF to EA

Item #87 “72” Precast Concrete Pipe Manhole” - Change unit of measure from LF to EA

**CHANGES AND/OR CLARIFICATIONS TO THE PLANS:**

12. Replace plan sheets ECQ-1, DQ-1, DQ-2, UT-1, and Q-2 with the attached revised sheets in accordance with changes to the project Specifications listed above.

**BIDDER QUESTIONS:**

13. Who is responsible for testing?

A. UNICO (Construction Management and RE) is partnering with GEOCON to perform Hazardous Waste Testing. They are responsible for testing of soils, backfill, structural backfill, aggregate base, asphalt, concrete and other testing as required.

14. Question: Is there a temporary pumping plan for the sewer? What is the GPM?

A. No, there is no temporary pumping plan in the plans or specifications; if the contractor wishes to submit a temporary pumping plan, they are responsible for the design of the plan. The plan should include provisions for 145 GPM at the south side of Hangtown

## PERSONNEL QUALIFICATIONS

**Name:** Eric Gifford

**Position:** Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt  
Supervising Laboratory Technician

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

Oversees and coordinates the processing of Geology test materials with other technicians and the Geology department.  
Processing new asphalt mix designs for the various plants for the up coming year and mix designs for upcoming jobs. Also processes mix verifications for the outside plants. Providing plant coverage for other technicians when necessary and coverage for QA at various jobsites in both asphalt and soils.

### EXPERIENCE

Since August 2000, Mr. Gifford has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties involving aggregates, soils and asphalt testing.

#### Caltrans QC/QA Inspect and test

1. 03 0A7814 Mack Rd Rt99
2. 03 366404 Camino
3. 03 0A6004 Colfax RT 80
4. 10 0A7404 Jacktone Rd Rt120

Various Sacramento County overlay projects

Various City of Elk Grove paving projects

#### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)	5/14/01
ACI Concrete field technician level	6/26/04
Asphalt Institute Certification HMA mix design class	3/4/05

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

**NICET Certification:**

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils		X		
Concrete	X			
Asphalt		X		

**TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler

- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

**EDUCATION**

Bachelor of Arts in Geology, 2000  
California State University Sacramento  
Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**ERIC GIFFORD**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T 324 Hamburg Wheel-Track testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**ERIC GIFFORD**  
of  
**TEICHERT PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Michael Kocunik  
**Position:** Quality Assurance Supervisor – Perkins and Grantline  
**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

QA Lab, Teichert's Perkins Plant.

- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Determination to asphalt content - CTM310
- Sieve Analysis of Aggregates - CTM 202
- Total Moisture Content of aggregate by Drying - CTM 202
- AC Mix moisture Content by Drying - CTM 310
- Inspection of hot mix asphalt plant equipment, operation, and production

### EXPERIENCE

Since 1997, Mr. Kocunik has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities.

Mr. Kocunik also performed various testing procedures in the QA Lab for the Tracy Aggregates and Hot Mix Asphalt facilities. He has carried out QC duties on Cal-Trans Contract Nos. 10-414904, 03-444904, 03-384504, 03-1A69U4, 03-0A7814, 10-459304, 03-0A5504, 10-1A5204, 03-366404, and 10-218814.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gage safety and operation)

#### NICET Certification:

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils	X			
Concrete	X			
Asphalt	X			

### TRAINING

Trained in quality control testing which includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count

### EDUCATION

Bachelor of Science in Sociology, 1999 - California State University Sacramento  
Asphalt Institute "Construction of Quality Hot Mix Asphalt Pavements" June 2008

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**MIKE KOCUNIK**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-µm, Wash</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>R30 Mixture Conditioning of HMA</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 324 Hamburg Wheel-Track Testing</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T248 Reducing Sample of Agg</u>
<u>T 96 LA Rattler</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 176 Sand Equivalent</u>	
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 269 % Air Voids</u>	
<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>	
<u>T 283 Moisture-Induced Damage</u>	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat** Jackie Treat

**Certified Independent Assurance (IA) Number** 107

**Date Issued:** 06/06/16 **(Expires 2 year after issue date)** **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**MIKE KOCUNIK**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

06/18	.....	x CTM 105 – CALCULATIONS
06/18	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
06/18	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
06/18	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
06/18	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
06/18	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
06/18	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
06/18	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
06/18	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
06/18	.....	<input checked="" type="checkbox"/> CTM -227 -CV
06/18	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
06/18	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**FERNANDO RIVERA**  
District 03 Materials Engineer

**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 06/06/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

CALIFORNIA DEPARTMENT OF TRANSPORTATION



PROFICIENCY CERTIFICATE

This is to signify that

JAMES BREWSTER
TEICHERT

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

Table with 2 columns: Test Method Name, and a blank column for notes or dates. Rows include T 11 Materials Finer Than 75-µm, Wash; T 27 Sieve Analysis, Fine & Coarse Agg.; T 96 L.A. Rattler; T 176 Sand Equivalent; T 210 Aggregate Durability Index; T 335 Crush Particle; D4791 Flat and Elongated.

Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.

Certified Independent Assurance (IA) #107 [Signature]

Date Issued: 2/11/15 Expires 2/16 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMES BREWSTER**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

02/16	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
02/16	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
	.....	<input type="checkbox"/> CTM 201 – SAMPLE PREPARATION
	.....	<input type="checkbox"/> CTM 202 – SIEVE ANALYSIS
	.....	<input type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
	.....	<input type="checkbox"/> CTM 217 – SAND EQUIVALENT
	.....	<input type="checkbox"/> CTM 226 – MOISTURE CONTENT
	.....	<input type="checkbox"/> CTM -227 -CV
	.....	<input type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
	.....	<input type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
	.....	<input type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
	.....	<input type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
	.....	<input type="checkbox"/> CTM 366 – STABILOMETER
	.....	<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
	.....	<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
	.....	<input type="checkbox"/> CTM 382 – PERCENT ASPHALT
	.....	<input type="checkbox"/> CTM -204,206
	.....	<input type="checkbox"/> CTM -207,211
	.....	<input type="checkbox"/> CTM -212,213,214,
	.....	<input type="checkbox"/> CTM -234,235,371
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**KEVIN ESPINOZA**  
District 03 Materials Engineer

*Jackie Treat*

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 02/11/16      Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Trenton Crouse

**Position:** QA Technician III

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Crouse has performed various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. He is also responsible for the testing of AMRL and Caltrans proficiency samples. Mr. Crouse is also responsible for maintaining lab and technician accreditations or certifications as well as verification of the testing equipment available at the labs.

### QUALIFICATIONS:

Mr. Crouse has been employed by Teichert Aggregates' Quality Assurance Department since 2006. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. He also holds a large number of Caltrans Certifications, AASHTO Certifications, 2 ACI Certifications, and Level 2 NICET Certifications. He has worked as the main plant technician on a number of Caltrans projects at a number of Teichert locations, both during the day and at night. Mr. Crouse has worked independently on a number of projects at outside locations and at the Perkins location.

### EXPERIENCE:

Mr. Crouse has worked with the Geology Department to evaluate various locations and their suitability for their use in aggregate production. He has experience at the majority of Teichert Hot Mix facilities and Rock Plant facilities. Since 2006 Mr. Crouse has been responsible for maintaining the quality of material through all phases of production at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4471 Viscosity
- D 4791 Flat and Elongated

**ACI Aggregate Testing Technician Level 1**

**ACI Aggregate Testing Technician Level 2**

**NICET Certification:**

	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>
<b>Construction Materials Testing:</b>				
Soils	X	X		
Asphalt	X	X		
Concrete	X	X		
<b>Highway Materials</b>	X	X		

**Nuclear Gauge Safety Training Class  
Hazmat Nuclear Gauge Transportation/Use**

## **TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates, Soils  
Apparent Specific Gravity  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Micro Deval  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Soil Gravity  
Atterburg Limits  
Expansion Index  
Particle Size Analysis of Soils  
In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
HMA Compaction Nuclear Gauge  
Stabilometer Value  
Resistance of Compacted Bituminous Mixture to Moisture Induced Damage  
AC Content by Ignition and Nuclear Methods  
Gyratory Compaction of Samples  
Hamburg Wheel Track Testing

## **EDUCATION:**

Associate of Science in Construction Management Technology  
Cosumnes River College  
5/21/2014  
Associate of Arts in Business Administration  
Cosumnes River College  
Awaiting Commencement in early 2106

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TRENTON CROUSE**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

CALIFORNIA DEPARTMENT OF TRANSPORTATION



Presents this
CERTIFICATE OF PROFICIENCY
to
TRENTON CROUSE
of
TEICHERT

who is qualified to perform the following tests:

Expiration Date Test Method

Table with 2 columns: Expiration Date and Test Method. Lists various tests like CTM 105, 106, 125, 201, etc., with checkboxes for proficiency status.

GIRMAY BEYENE
District 03 Materials Engineer

Handwritten signature of Jackie Treat

Jackie Treat Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester
complies with applicable requirements in Caltrans'
Independent Assurance Program Manual.



## PERSONNEL QUALIFICATIONS

**Name:** James Haas  
**Position:** Technician III  
**Employer:** Teichert Quality Assurance

### AREA OF RESPONSIBILITY

Perkins Lab, Rock Plant, and Hot Plant Facilities:

- CTM 105
- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Soil and Aggregate sample preparation – CTM 201
- Sieve Analysis of Aggregates - CTM 202
- Sand Equivalent – CTM 217
- Moisture Content of Soils - CTM 226
- Evaluating Cleanness of Aggregate - CTM 227
- Durability of Aggregate - CTM 229
- Moisture Content (Asphalt) - CTM 370
- AC Content - CTM 379, CTM 382

### EXPERIENCE

Since July 2003, Mr. Haas has been employed by Teichert Aggregates' Quality Assurance Department as a Quality Assurance Technician. Mr. Haas has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Haas has gained experience through Teichert's In House Proficiency Program involving aggregates, soils and asphalt testing.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- |   |  |
|---|--|
| • CTM 105 Calculations  | • R 30 HMA Mixture Conditioning                      |
| • CTM 125 Sampling  | • T 11 Material Finer than #200 by Wash              |
| • CTM 201 Sample Preparation                                  | • T 27 Aggregate Gradation                           |
| • CTM 202 Sieve Analysis                                      | • T 30 Mechanical Analysis of Extracted Aggregate    |
| • CTM 205 Crushed Particles                                   | • T 84 Specific Gravity of Fine Aggregate            |
| • CTM 206 Specific Gravity and Absorption of Coarse Aggregate | • T 85 Specific Gravity of Coarse Aggregate          |
| • CTM 207 Specific Gravity and Absorption of Fine Aggregate   | • T 96 LA Rattler                                    |
| • CTM 208 Apparent Specific Gravity of Fine Aggregates        | • T166 Bulk Specific Gravity of Compacted HMA by SSD |
| • CTM 211 Abrasion of Coarse Aggregate by LAR                 | • T 176 Sand Equivalent                              |
| • CTM 217 Sand Equivalent                                     |  |

- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

## **TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- AC Contents
- AC Moistures

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES HAAS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMESON HAAS**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -371- MOISTURE SENSITIVITY
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,204,214,384
05/17	.....	<input checked="" type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Theodore Leal

**Position:** Technician III

**Employer:** Teichert Aggregates Quality Assurance Department

### AREA OF RESPONSIBILITY:

Mr. Leal is responsible for various testing procedures and maintaining the quality of materials being produced at the Perkins Quality Assurance Lab for the Perkins Aggregates and Hot Plant Facilities as well as other Teichert facilities.

### QUALIFICATIONS:

Mr. Leal has worked with AMRL and CCRL proficiency testing programs. Soil Testing: Atterberg limits, Soil Compaction, Sieve Analysis, Hydraulic Conductivity (D 5084), Expansion Index, and Resistance Value. Concrete and Concrete Aggregate Testing: Compression Strength, Specific Gravity and Absorption of Aggregates, and Durability.

### EXPERIENCE:

Mr. Leal has been employed by Teichert Aggregates' Quality Assurance Department since 2010. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Leal has received training through Teichert's in-house training program dealing with aggregates, soils, and asphalt testing. Mr. Leal previously worked at Youngdahl Consulting for 5 and 1/2 years testing soil, aggregate, and concrete.

### CERTIFICATIONS AND RATINGS:

ACI Concrete Laboratory Testing Technician Grade I

Troxler Certified (Nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 R Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

#### **TRAINING AND CONTINUING EDUCATION:**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

Sampling of Aggregates and Asphalt  
 Specific Gravity of Coarse Material, Fine Aggregates, Soils  
 Apparent Specific Gravity  
 Crushed Particle Count  
 Friable Particles  
 Soundness of Aggregate by Sodium Sulfate  
 Unit Weight  
 LA Rattler  
 Micro Deval  
 Laboratory Compaction of Soils  
 Resistance Value  
 Atterberg Limits  
 Particle Size Analysis of Soils

In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value

**EDUCATION:**

Westmont High School, 1985  
High School Diploma  
West Valley College  
1985-1989

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

### THEODORE LEAL TEICHERT- PERKINS

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash

T 27 Sieve Analysis, Fine & Coarse Agg.

R30 Mixture Conditioning of HMA

T 84 Bulk SpG (SSD) of Fine Aggr.

T 85 Bulk SpG (Oven Dry), Coarse Agg.

T 96 LA Rattler

T 176 Sand Equivalent

T 209 Theoretical Max. SpG (Method A)

T 269 % Air Voids

T 275 Bulk SpG, Compacted HMA, Paraffin

T 283 Moisture-Induced Damage

T 304 Uncompacted Void Content, Fine

T 308 Binder Content, Ignition, Method A

T 312 Superpave Gyrotory Compactor

T 324 Hamburg Wheel-Track Testing

T248 Reducing Sample of Agg

T 335 Fractures in Coarse Aggregate.

D7741 Apparent Viscosity

D 4791 Flat & Elongated Particles

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat**\_\_\_\_\_

Certified Independent Assurance (IA) Number **#107**\_\_\_\_\_

Date Issued: **04/15/15** Expires **4/17** Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TED LEAL**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -371-RESISTANCE TO MOISTURE
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211
04/17	.....	<input checked="" type="checkbox"/> CTM -234,235
05/17	.....	<input checked="" type="checkbox"/> CTM -204,214,301,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Luis Maca  
**Position:** Quality Assurance Technician II  
**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Maca is responsible for various testing procedures at the Perkins and Woodland Quality Assurance Labs for the Aggregates and Hot Mix Asphalt facilities. Mr. Maca maintains the quality of the materials being produced at these facilities and is also responsible for sampling and providing materials being produced to outside agencies and customers when requested to do so.

### EDUCATION / QUALIFICATIONS:

Mr. Maca graduated from Cache Creek High School in Yolo, CA in 2009. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood & Woodland Aggregates and Hot Mix Asphalt facilities. Mr. Maca has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture

- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP

#### Damage

- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**LUIS MACA**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**LUIS MACA**

of  
**TEICHERT-PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,211,212,214
04/17	.....	<input checked="" type="checkbox"/> CTM -384-
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** John Scroggins

**Position:** Quality Assurance Technician II

**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Scroggins is responsible for various testing procedures in the Perkins Quality Assurance Lab for the Aggregates and Hot Mix Asphalt facilities including the following:

- Moisture Content
- Sand Equivalent
- Durability Index
- T.S.R.
- Specific Gravity of Coarse Material, Fine Aggregates, Soils
- Crushed Particles
- Sampling/Gradations of Aggregates and Asphalt
- Sample Preparation
- Sieve Analysis
- Theoretical Maximum Specific Gravity of Bituminous Mixtures
- Asphalt Binder Content by Ignition Oven

### EDUCATION / QUALIFICATIONS:

Mr. Scroggins graduated from Redwood High School in Visalia, CA and attended College of the Sequoias and San Diego State University. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood, Woodland, Martis, Vernalis and Cool Cave Aggregates and Hot Mix Asphalt facilities. Mr. Scroggins has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse

- CTM 207 Specific Gravity and Absorption of Fine Aggregate
  - CTM 211 Abrasion of Coarse Aggregate by LAR
  - CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
  - CTM 217 Sand Equivalent
  - CTM 226 Moisture Content
  - CTM 227 Cleanness of Coarse Aggregate
  - CTM 229 Durability
  - CTM 234 Uncompacted Void Content of Fine Aggregate
  - CTM 235 Flat and Elongated Particles
  - CTM 304 HMA Preparation for Testing
  - CTM 308 Bulk Spgr. of HMA Briquettes
  - CTM 309 Rice Spgr. and Density of HMA
  - CTM 366 Stabilometer
  - CTM 370 HMA Moisture (Microwave)
  - CTM 371 Moisture Sensitivity (TSR)
  - CTM 379 Percent Asphalt (Nuclear)
  - CTM 382 Percent Asphalt
  - CTM 384 Gradations for HMA using up to 25% RAP
- Aggregate
  - T 96 LA Rattler
  - T166 Bulk Specific Gravity of Compacted HMA by SSD
  - T 176 Sand Equivalent
  - T 209 Theoretical Max Density
  - T 210 Aggregate Durability Index
  - T 248 Reducing Samples of Aggregate
  - T 255 Moisture Content by Oven
  - T 269 Percent Air Voids
  - T 275 HMA Bulk Spgr. (Paraffin)
  - T 283 Resistance of HMA to Moisture Damage
  - T 304 Fine Aggregate Angularity
  - T 308 Binder Content Method A
  - T 312 Superpave Gyratory Compactor
  - T 324 Hamburg Wheel Track Test
  - T 329 Moisture Content of HMA, Oven Dry
  - T 335 Crushed Particles
  - D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JOHN SCROGGINS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.  
Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JOHN SCROGGINS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
04/17	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
04/17	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
04/17	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206, 207,211,234,235,
04/17	.....	<input checked="" type="checkbox"/> CTM -371,384
05/17	.....	<input checked="" type="checkbox"/> CTM 204,214
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Brandon Snyder  
**Position:** Quality Assurance Technician III  
**Employer:** Teichert Aggregates - Quality Assurance Laboratory

### AREA OF RESPONSIBILITY

Mr. Snyder has performed various testing procedures at the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. Mr. Snyder is also responsible for the testing of production materials within the lab to ensure materials being produced meet the specified standards. Mr. Snyder works closely with the Senior Technician and Supervisors to ensure that materials are being tested properly and in a timely manner for reporting to Caltrans and various local agency personnel.

### EXPERIENCE

Since August 2004, Mr. Snyder has been employed by Teichert Aggregates' Quality Assurance Department. Mr. Snyder has performed various Quality Assurance duties involving aggregates, soils, and asphalt testing after receiving training through Teichert's In House Training Program. Mr. Snyder has performed work for various Caltrans and local agencies public works jobs as a sampler and tester of HMA and aggregate materials.

### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)  
ACI Concrete Field Technician Level 1  
Asphalt Institute Certification HMA Mix Design Class

#### Current Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index

- by Use of Sodium Sulfate
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyrotory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

### **Training**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

### **EDUCATION**

Cordova High school 2003  
 American River College 2004-2005  
 Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**BRANDON SNYDER**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	D 7741 Viscosity

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107

*Jackie Guat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**BRANDON SNYDER**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Taylor Theis

**Position:** QA Technician I

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mrs. Theis is currently responsible for various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. On a regular basis Mrs. Theis monitors the production of aggregate and asphalt materials using test procedures such as gradation, sand equivalent, durability index, cleanness value, moisture content of aggregate and asphalt, as well as oil content. She is also responsible for coordinating with outside agencies such as City, County, and State Inspectors to sample and split material for Quality Assurance Testing

### QUALIFICATIONS/EXPERIENCE:

Mrs. Theis has been employed by Teichert Aggregates' Quality Assurance Department beginning in 2015. She has received extensive training through an in house training program. She has experience at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 304 HMA Preparation for Testing
- CTM 309 Rice Spgr. and Density of HMA
- CTM 382 Percent Asphalt
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 329 Moisture Content of HMA, Oven Dry

**TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value  
AC Content by Ignition and Nuclear Methods

**EDUCATION:**

Christian Brothers High School, 2010  
High School Diploma

San Diego Mesa College  
2010 – 2011

Folsom Lake Community College  
2011 - 2013

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TAYLOR THEIS  
TEICHERT**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 304 Uncompacted Void Content, Fine
T 84 Bulk SpG (SSD) of Fine Aggr.	T 308 Binder Content, Ignition, Method A
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 329 Moisture Content of HMA, Oven Dry
T 96 LA Rattler	T 335 Fractures in Coarse Aggregate.
T 166 Bulk SpG & Compacted Saturated	D 4791 Flat & Elongated Particles
T 176 Sand Equivalent	
T 209 Theoretical Max. SpG (Method A)	
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Jackie Treat *Jackie Treat*

**Date Issued:** 05/11/16 **Expires** 05/17 **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TAYLOR THEIS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

		CTM 105 – CALCULATIONS
		<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
05/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
05/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
05/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
		<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
05/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
05/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
05/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
		<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
05/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
		<input type="checkbox"/> CTM 366 – STABILOMETER
		<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
		<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
		<input type="checkbox"/> CTM -204,206
		<input type="checkbox"/> CTM -207,211
		<input type="checkbox"/> CTM -212,213,214,
		<input type="checkbox"/> CTM -234,235,371
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
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		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

KEVIN ESPINOZA  
District 03 Materials Engineer

*Jackie Treat*

Jackie Treat      Certified Independent Assurance (IA) #107

Date Issued 05/11/16    Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

<b>Expiration date:</b>	<u>3/20/2017</u>
<b>Inspected by:</b>	<u>Jackie Treat</u>
<b>IA No.:</b>	<u>#107</u>
<b>Phone:</b>	<u>530-741-4131</u>
<b>File: Materials Category</b>	<b>500</b>

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>				
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>				
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u>	<b>Zip:</b>	<u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>		
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>		

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the  
 the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods  
 indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate  
 of Proficiency Form TL-0111 prior to performing any sampling or testing.

CTM 105, 125, 201, 202, 204, 205, 206, 207,208, 211, 212,214,  
217, 226, 227, 229, 234, 235,301, 304, 308, 309, 366,367, 370, 371  
375,379, 382, 384

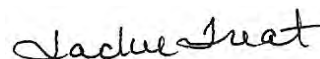
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

Expiration date: 3/20/2017  
 Inspected by: Jackie Treat  
 IA No.: #107  
 Phone: 530-741-4131  
 File: **Materials Category 500**

Laboratory: Teichert Incorporated-Perkins Laboratory-ID#32  
 Address: 8609 Jackson Road, Building #101  
 City: Sacramento State: CA Zip: 95826  
 Lab QC Mgr.: Trenton Crouse e-mail: [tcrouse@teichert.com](mailto:tcrouse@teichert.com)  
 Telephone: (916) 386-6974 Fax #: (916) 386-8455

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the  
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At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods  
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AASHTO R18,R30,R35, R47 ,R58, T2, T11 T19,T21,T27, T30, T37,T39, T84, T85, T90,T96, T104, T112,T166, T167,  
T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T308, T309, T312, 324,T329,T331,  
T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791

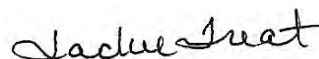
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- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



## Teichert Quality Assurance

**Sacramento, California**

[Show This Entry Only](#)

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

Fax:

[jblumer@teichert.com](mailto:jblumer@teichert.com)

<http://www.teichert.com>

**16-7497** : Accreditation has been suspended for Asphalt Mixture method(s) T30, D5444

**Quality Management System** - accredited since 2/1/1997

R18, C1077 (Aggregate), C1077 (Concrete), D3666 (Aggregate), D3666 (Asphalt Mixture)

**Asphalt Mixture** - accredited since 2/21/2013

R47, R68, T166, T167, T209, T245, T246, T247, T269, T275, T283, T305, T308, T312, T324, T329, D1074, D1075, D1188, D1560 (Stability), D1561, D2041, D2726, D2950, D3203, D4867, D6307, D6390, D6925, D6926, D6927, D6931

**Soil** - accredited since 2/21/2013

R58, T88, T89, T90, T99, T100, T146, T176, T180, T190, T265, D421, D422, D698, D854, D1140, D1557, D2216, D2419, D2844, D4318

**Aggregate** - accredited since 2/21/2013

T2, T11, T19, T21, T27, T37, T84, T85, T96, T104, T112, T176, T210, T248, T255, T304, T335, C29, C40, C88, C117, C127, C128, C131, C136, C142, C535, C566, C702, C1252, D75, D546, D2419, D3744, D4791, D5821

**Concrete** - accredited since 2/1/1998

M201, R39, R60, T22, T23, T97, T119, T121, T152, T196, T309, C31, C39, C78, C138, C143, C172, C173, C192, C231, C511, C1064, C1231 (7000 psi and below)

Please note that our accreditations do not include an expiration date. An accreditation only expires when the laboratory fails to comply with our accreditation requirements.

\* This information is only valid as of 7/11/2016. Please visit <http://www.amrl.net> for current accreditation status.





**A. TEICHERT & SON, INC.**

*Established 1887*

December 8, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Hugo Gutierrez

Re: Blairs Lane

Dear Hugo,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement with Evotherm M1 for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP and Evotherm M1 complies with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 3/2/2016  
 Plant: Perkins GenCor  
 Agg Source: S.M.A.R.A. # 91-34-0037  
 Asphalt: PG64-10

Type: 1/2" Max. Med. Type A w/15% RAP  
 w/ 0.3% Evotherm M1 Warm Mix  
 Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	18	41	11	15	
50.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
37.5mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
25.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
19.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
12.5mm	<b>90 - 100</b>	<b>96</b>	71	100	100	100	100	
9.5mm	<b>78 - 90</b>	<b>84</b>	19	78	100	100	99	
4.75mm	<b>53 - 67</b>	<b>60</b>	3	3	90	100	74	
2.36mm	<b>35 - 45</b>	<b>40</b>		1	55	88	52	
1.18mm	-	<b>28</b>			35	72	40	
600µm	<b>16 - 24</b>	<b>20</b>			25	46	31	
300µm	-	<b>14</b>			21	17	22	
150µm	-	<b>9</b>			15	4	15	
75µm	<b>3.5 - 7.5</b>	<b>5.5</b>			9.5	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	<b>5.5</b> *	N/A
AIR VOIDS %	C.T.M.367	<b>4.0</b>	4.0%
UNIT WEIGHT Kg M <sup>3</sup>	C.T.M.308-A	<b>2.441</b>	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup>	C.T.M. 309	<b>2.543</b>	N/A
STABILOMETER VALUE	C.T.M.366	<b>38</b>	37 min
Dust Proportion	LP-4	<b>1.2</b>	0.6 - 1.2
VMA	LP-2	<b>14.2</b>	14.0 min
VFA	LP-3	<b>73</b>	65 - 75
FAA	AASHTO T304	<b>46</b>	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

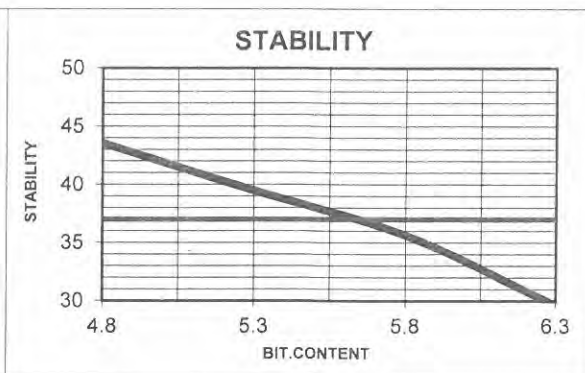
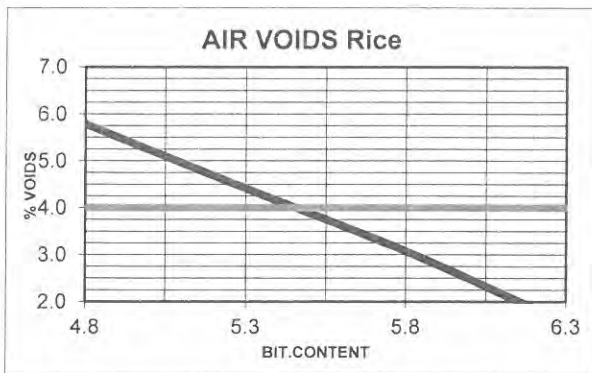
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Revs.	CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity	CTM 206/208	2.728	2.673	N/A
COMBINED SP.GR.=	2.725			

**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.0	63.8	63.5	63.5	64.0	63.0	63.2
HEIGHT IN.	2.52	2.51	2.50	2.50	2.52	2.48	2.49
500							
1000							
2000							
3000							
4000							
5000	36	41	48	59	43	45	42
6000							
TURNS DIS.	2.91	2.98	2.94	3.05	3.00	2.98	3.12
STABILITY	<b>44</b>	<b>39</b>	<b>36</b>	<b>30</b>	<b>38</b>	<b>37</b>	<b>38</b>

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1241.7	1250.2	1258.6	1262.9	1252.8	1255.6	1256.0
WAX AIR	1262.0	1267.5	1272.5	1277.6	1271.3	1272.8	1274.4
WAX H2O	726.4	735.4	744.2	751.0	737.1	740.8	740.5
CTM 308 SP.GR.	2.420	2.438	2.454	2.475	2.439	2.448	2.446
CTM 309 MAX SPGR	2.569	2.550	2.532	2.514	2.543	2.543	2.543
CTM 367 AIR VOIDS%	5.8	4.4	3.1	1.6	4.1	3.7	3.8
UNIT WT. FLUSHING	151.0	152.1	153.1	154.4	152.2	152.8	152.6



STEP				
4	Max Asphalt Content with 4 or more % Voids		5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8
1	DESIGN SET	4.8	5.3	5.8
	* OPTIMUM BITUMEN CONTENT=		5.5	
	RECOMMENDED RANGE=	5.2		5.5





## Section 1. Identification

GHS product identifier : EVOTHERM® M1  
Chemical name : Fatty amine derivatives  
Product type : Liquid

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Asphalt additive

Material uses : Asphalt additive

Manufacturer : MeadWestvaco Corporation  
Specialty Chemicals Division  
5255 Virginia Avenue  
North Charleston, South Carolina USA 29405-5615  
msds@mwv.com  
  
Telephone no.: +1 843 740 2236, +1 800 458 4034  
Hours of operation: 0800 - 1700 EST

Emergency telephone number (with hours of operation) : +1 703 527 3887 (USA)  
4001-204937 (in China)  
CHEMTREC International

## Section 2. Hazards identification

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC TOXICITY (ACUTE) - Category 1  
AQUATIC TOXICITY (CHRONIC) - Category 1

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Causes serious eye damage.  
Causes skin irritation.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Recommended: Safety glasses with side shields, splash goggles, or face shield. Avoid release to the environment. Wash hands thoroughly after handling.

Response : Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Not applicable.

## Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance  
Chemical name : Fatty amine derivatives  
Other means of identification : Not available.

### CAS number/other identifiers

CAS number : Not available.  
EC number : Not available.

Ingredient name	%	CAS number
Fatty amine derivatives	100	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First-aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes skin irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use any extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Dispose of according to all federal, state and local applicable regulations.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 5 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: Safety glasses with side shields, splash goggles, or face shield.

### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat, apron or coveralls
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Amber, [Dark]
- Odour** : Amine-like.
- Odour threshold** : Not available.
- pH** : 10 to 12 [Conc. (% w/w): 15%]
- Melting point** : <25°C (<77°F)
- Boiling point** : >200°C (>392°F)
- Flash point** : Closed cup: >204.4°C (>399.9°F) [Pensky-Martens ]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : <1.0 x 10<sup>-12</sup> mmHg @25 °C
- Vapour density** : Not available.
- Relative density** : 0.97 [Water = 1]
- Solubility** : Partially soluble in the following materials: cold water and hot water.
- Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.
- Other** : Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, metals and acids. DO NOT MIX WITH NITRITES. MAY FORM SUSPECTED CANCER CAUSING NITROSAMINES.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

## Section 11. Toxicological information

### Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact : Causes skin irritation.
- Ingestion : May cause burns to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation : No specific data.
- Skin contact : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

#### Long term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

- General : No known significant effects or critical hazards.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : No known significant effects or critical hazards.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.



## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours 96 hours

### Persistence/degradability

Not available

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % - 28 days	-	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty amine derivatives	-	-	Not readily

### Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition  
coefficient (K<sub>oc</sub>) : 5.8

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.


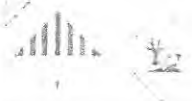


The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL

## Section 13. Disposal considerations

PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	UN	IMDG	IATA	DOT Classification
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Special provisions</u> 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Emergency schedules (EmS)</u> F-A, S-F  <u>Special provisions</u> 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Passenger and Cargo Aircraft</u> Quantity limitation: 450 L Packaging instructions: 964 <u>Cargo Aircraft Only</u> Quantity limitation: 450 L Packaging instructions: 964	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.  <u>Limited quantity</u> Yes.

## Section 14. Transport information

			<u>Limited Quantities</u> <u>- Passenger</u> <u>Aircraft</u> Quantity limitation: 30 kg Packaging instructions: Y954	<u>Special provisions</u> 8, 146, 173, 335, 183, T4, TP1, TP29
			<u>Special provisions</u> A97, A158	

## Section 15. Regulatory information

### China

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

China inventory (IECSC) : This material is listed or exempted.

### List of Goods banned for Importing

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Japan

#### Japan Control Law

Explosives Control Law : Not applicable.

High Pressure Gas Control Law : Not applicable.

Law

Fire Service Law : Class 4; Type 4 petroleum Designated quantity : Not available.

Fire Service Law : Not available. Designated quantity : Not available

Substance to report : Not applicable. Designated quantity : Not available.

Fire Service Law - Obstructive materials : Not listed

Characteristics : Not available.

Danger class : Not available.

#### Poisonous and Deleterious Substances

Use of specified chemical substances : Not available.

ISHL : Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation : Not applicable.

## Section 15. Regulatory information

Occupational diseases	: Not available.
Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster	: Marine pollutant: P
Notification Regulating Transportation of Dangerous Materials by Sea	: Not available.
Civil Aeronautics Law	: Not available.
Pollutant Release and Transfer Registers (PRTR)	: Not listed
Road law	: Not applicable.
JSOH Carcinogen	: Not listed
ISHL Prevention of Tetraalkyl Lead Poisoning	: Not listed
ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
ISHL Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Chemicals requiring notification	: Not listed
ISHL Dangerous Substances	: Not listed
List of Specially Controlled Industrial Waste	: Not listed

### Chemical Substances Control Law (CSCL)

Not available.

Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory	: This material is listed or exempted.
Other regulations	: Not available.
Safety, health and environmental regulations specific for the product	: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### South Korea

#### A. Regulation according to ISHA

ISHA Article 37	: This material is not listed.
ISHA Article 38	: This material is not listed.

#### B. Regulation according to TCCA

TCCA Toxic chemicals	: Not applicable
TCCA Observational chemicals	: This material is not listed.

## Section 15. Regulatory information

- TCCA Article 32 (Banned) : This material is not listed.
- TCCA Article 32 (Restricted) : This material is not listed.
- TCCA Article 17 (TRI) : This material is not listed.
- Korea inventory : This material is listed or exempted.
- C. Dangerous Materials Safety Management Act : Not available.
- D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- E. Regulation according to other foreign laws
- Europe inventory : This material is listed or exempted.
- United States inventory (TSCA 8b) : This material is listed or exempted.
- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).
- International lists : Japan inventory: This material is listed or exempted.  
Korea inventory: This material is listed or exempted.  
Europe inventory: This material is listed or exempted.  
United States inventory (TSCA 8b): This material is listed or exempted.  
Australia inventory (AICS): This material is listed or exempted.  
China inventory (IECSC): This material is listed or exempted.  
Malaysia Inventory (EHS Register): Not determined.  
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.  
Philippines inventory (PICCS): This material is listed or exempted.  
Taiwan inventory (CSNN): This material is listed or exempted.  
Canada inventory: This material is listed or exempted.

### Brazil

- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

### History

- Date of issue/Date of revision : 10/18/2013.
- Date of previous issue : 10/01/2013.
- Version : 5
- Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods

## Section 16. Other information

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

### References

Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





**A. TEICHERT & SON, INC.**

*Established 1887*

July 27, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Arnie Garcia

Re: Blairs Lane

Dear Arnie,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP comply with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor





10090 Waterman Rd.  
Elk Grove, CA 95624  
Phone: (916) 685-9253

John Schmidt  
Teichert Aggregates  
3500 American River Dr.  
Sacramento Ca. 95824

Dear John,

In regards to your question about Paramount Petroleum's PG 64-10, I would like to assure you that Paramount's PG 64-10 will meet all Caltrans specifications for PG 64-16. Paramount is currently on Caltrans list of approved suppliers and also a member of their COC program which requires us to submit to them numerous PG grade samples to their lab for specification compliance each week.

If you have any further questions please don't hesitate to call.

Thank You,  
Jack

Jack Dougherty  
Divisional Manager  
Asphalt R&D and Field Engineering Support  
Paramount Petroleum / Alon USA  
10090 Waterman Road  
Elk Grove, Ca. 95624  
Phone: (916) 685-9253  
Cell: (916) 826-3243  
Fax: (916) 685-8701  
[jdougherty@ppcla.com](mailto:jdougherty@ppcla.com)

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins Batch Plant  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin	3	2	1	BHD	RAP
		Size					
% Used		100	11	26.5	47	0.5	15
2"	100	100	100	100	100	100	100
1 1/2"	100	100	100	100	100	100	100
1"	100	100	100	100	100	100	100
3/4"	100	100	100	100	100	100	100
1/2"	90 - 100	96	62	100	100	100	100
3/8"	78 - 90	84	3	82	100	100	99
#4	54 - 68	61	1	15	96	100	74
#8	37 - 47	42		1	70	100	52
#16	-	28			46	100	40
#30	17 - 25	21			33	100	31
#50	-	14			22	99	22
#100	-	9			14	92	15
#200	3.7 - 7.7	5.7			8.0	76.0	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451 152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554 159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	N/A
REMARKS: * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

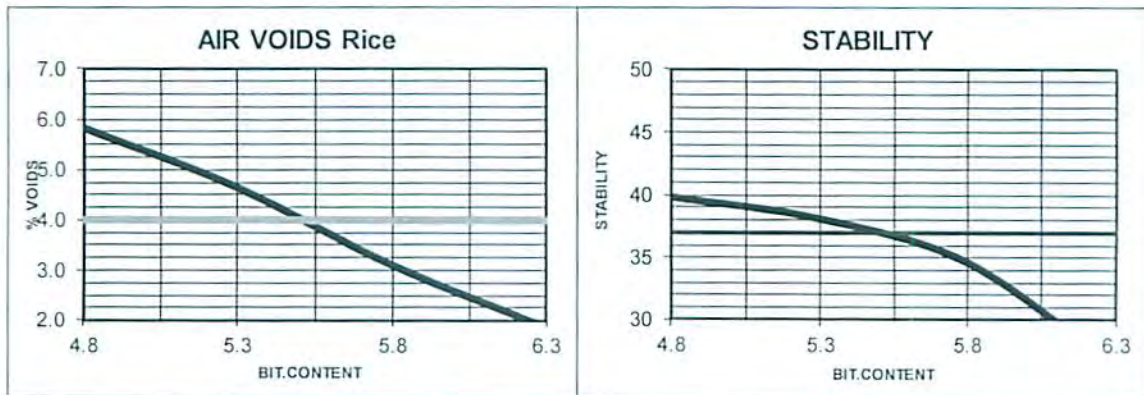
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
Flat & Elongated (3:1) ASTM D 4791	5.7		
(5:1)	3.2		
Specific Gravity CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0		

1/2" Max. Medium "A" w/RAP (Batch Plant)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.5	64.3	64.3	64.0	63.5	63.8	62.7
HEIGHT IN.	2.54	2.53	2.53	2.52	2.50	2.51	2.47
500	10	10	12	13			
1000	14	14	20	20			
2000	21	22	28	30			
3000	28	30	36	42			
4000	35	39	44	57			
5000	41	46	53	75	44	43	45
6000	49	58	65	93			
URNS DIS.	2.94	2.78	2.75	2.71	3.12	2.99	2.95
STABILITY	40	38	35	26	37	38	37

AIR VOIDS DETERMINATION ( C.T.M. 367)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1245.8	1254.5	1257.0	1266.5	1256.0	1254.3	1252.9
WAX AIR	1255.1	1264.2	1266.7	1275.8	1268.8	1270.1	1269.6
WAX H2O	730.7	738.5	744.6	753.3	741.1	740.9	739.8
CTM 308 SP.GR.	2.423	2.436	2.458	2.473	2.446	2.452	2.451
CTM 309 MAX SPGR	2.574	2.555	2.537	2.519	2.554	2.554	2.554
CTM 367 AIR VOIDS%	5.8	4.6	3.1	1.8	4.2	4.0	4.0
UNIT WT. FLUSHING	151.2	152.0	153.4	154.3	152.6	153.0	152.9



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins (Drum)  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium Type "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
1 1/2"	100	100	100	100	100	100	100	
1"	100	100	100	100	100	100	100	
3/4"	100	100	100	100	100	100	100	
1/2"	90 - 100	96	71	100	100	100	100	
3/8"	78 - 90	84	19	78	100	100	99	
#4	54 - 68	61	3	3	86	100	74	
#8	37 - 47	42		1	55	90	52	
#16	-	30			35	75	40	
#30	17 - 25	21			25	50	31	
#50	-	14			21	17	22	
#100	-	9			15	4	15	
#200	3.7 - 7.7	5.7			9.2	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451    152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554    159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	70 min
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

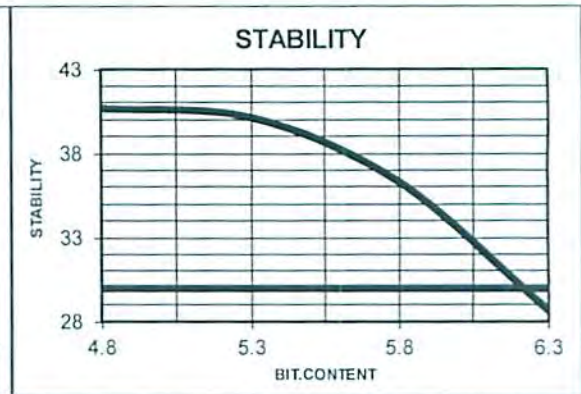
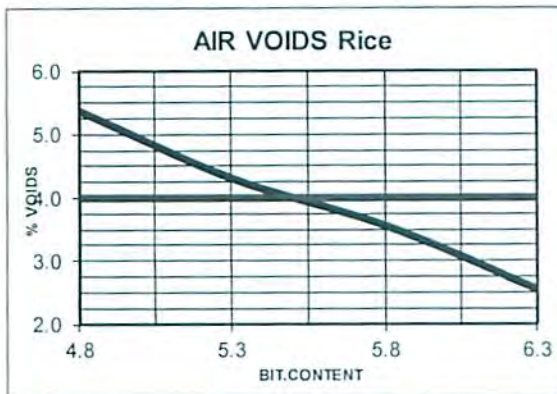
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Revs.	CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Flat & Elong. (3:1)	ASTM D4791	5.7		
Flat & Elong. (5:1)	ASTM D4791	3.2		
Specific Gravity	CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0			

1/2" Max. Medium Type "A", Perkins Drum Plant  
**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	63.5	63.2	62.7	62.5	63.0	63.8	63.8
HEIGHT IN.	2.50	2.49	2.47	2.46	2.48	2.51	2.51
500	10	9	9	10			
1000	13	13	14	14			
2000	18	20	22	23			
3000	23	25	30	31			
4000	30	32	37	39			
5000	37	38	48	57	43	40	46
6000	45	52	60	61			
URNS DIS.	3.18	3.16	2.86	3.33	3.01	3.15	2.97
STABILITY	41	40	36	29	38	39	37

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1215.4	1218.8	1223.9	1233.3	1221	1223.1	1220.8
WAX AIR	1224.4	1230.5	1234.8	1246.4	1232.5	1235.6	1231.1
WAX H2O	714.5	718.2	721.7	728.8	722.5	720.2	719.5
CTM 308 SP.GR.	2.431	2.441	2.443	2.452	2.456	2.439	2.441
CTM 309 MAX SPGR	2.570	2.551	2.533	2.516	159.120	159.120	159.120
CTM 367 AIR VOIDS%	5.4	4.3	3.6	2.5	98.5	98.5	98.5
UNIT WT. FLUSHING	151.7	152.3	152.4	153.0	153.2	152.2	152.3



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>15</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
----------------------	------------------------	------------------------------	--	--

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, install additional Drainage Inlets per FCD 18, RFI 33 and Engineer's field direction in the Caltrans, Valero and Chevron driveways.

**Extra Work at Force Account:**

DEWR 28-132.0 .....	\$135.36
DEWR 28-133.0 .....	\$5,130.87
DEWR 28-134.0 .....	\$984.70
DEWR 28-135.0 .....	\$439.16
DEWR 28-136.0 .....	\$832.14
DEWR 28-137.0 .....	\$1,502.16
DEWR 28-143.0 .....	\$495.99

**Total CCO #15 Amount: .....\$9,520.38**

The contractor agrees to accept the lump sum of \$9,520.38 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$9,520.38**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Rebecca Neves P.E., City Engineer	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Cleve Morris, City Manager	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE	(PRINT NAME & TITLE)	DATE



Since 1926

January 24, 2017

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: M&H Change Order Request #028 – Driveway Drainage Modifications

Mr. Sloan,

Attached are copies of daily extra work tags which were signed by UNICO Engineering for the additional labor and materials per FCD 018 and RFI #33 for the Blairs Lane Bridge Replacement Project. Please review the attached daily extra work reports, as well as, process and approve for billing as we would like to include the cost in our January 2017 billing. The total cost for change order request #028 is \$9,520.38

Due to the unforeseen additional work, M&H is requesting 3 additional working days to be granted to the contract.

If you have any questions, comments, and/or concerns with the change order request please feel free to call me at 916-607-4558.

Sincerely,

**McGuire & Hester**

*Arnie Garcia*

Arnie Garcia  
Project Engineer



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #18**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 18**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/12/2016**

**DESCRIPTION OF CHANGE:**

Install 2 each square 10-1/4" x 10-1/4" Drainage inlets, or similar, and approximately 40 linear feet of 4" schedule 80 PVC pipe as shown in the attached drawings. Location of the drainage inlets and the pipe will be determined in the field by the engineer.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Time and Material

**REASON FOR CHANGE:**

The current AC conform with the driveway at Valero will result in a low area which will pond water. This drainage system will remove the water and transport it to the drainage inlet.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

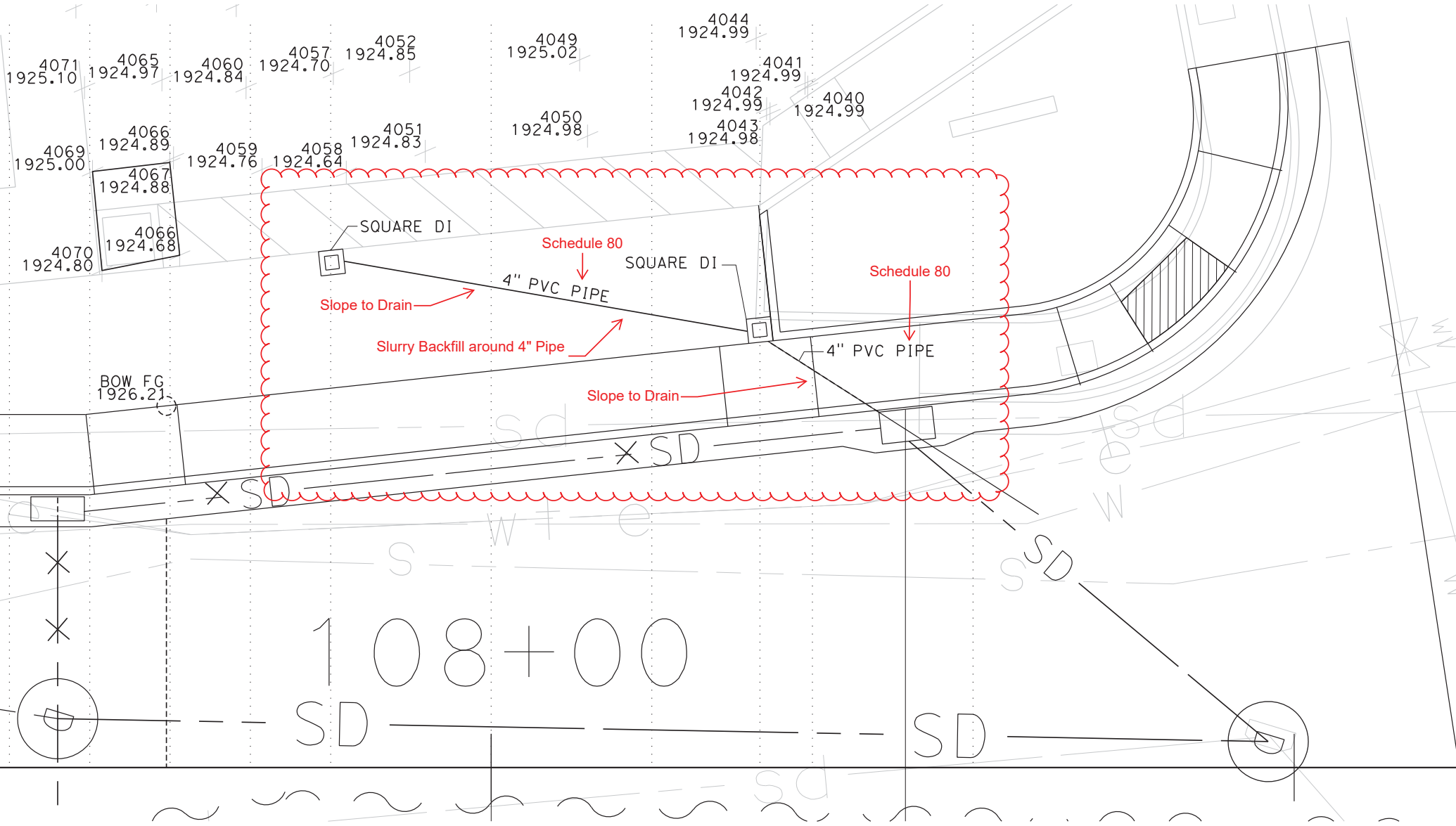
It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

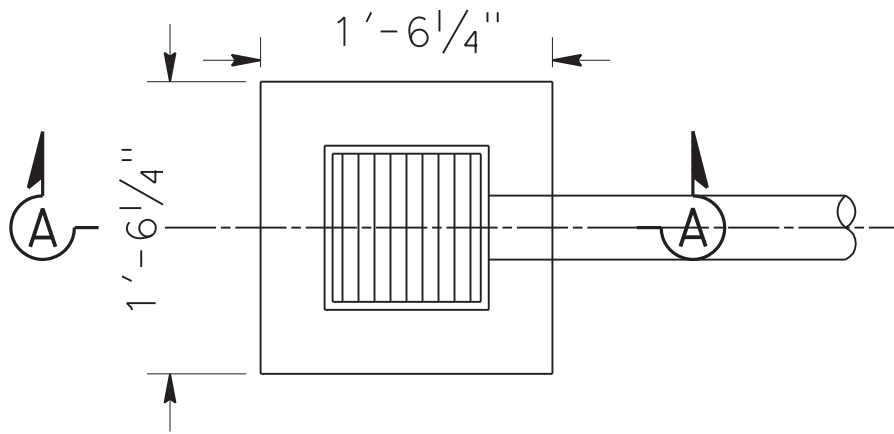
**CITY REPRESENTATIVE:**

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

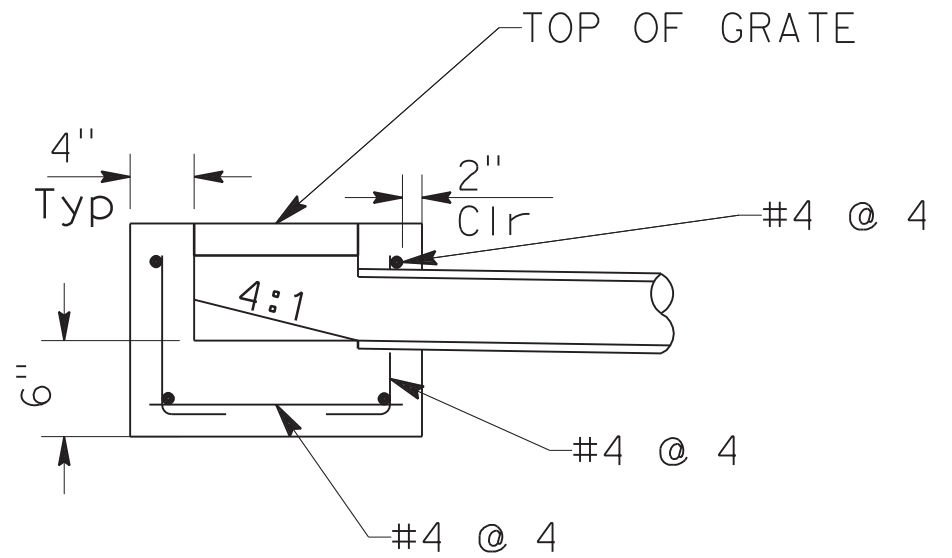
TITLE: Resident Engineer







SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE

 <p>McGuire and Hester 1016 N. Market Blvd Sacramento, CA 95834 Phone: 916-372-8910 Fax: 916-372-8913</p>	<p><b>REQUEST FOR INFORMATION</b></p> <p>Request No.: <b>033</b></p> <p>Title: <b>Caltrans Driveway</b> Requested By: <b>Arnie Garcia</b></p> <p>Date: <b>12/07/2016</b></p>
<p>To: <b>City of Placerville</b> <b>3101 Center Street</b> <b>Placerville, CA 95667</b></p> <p>Attn: <b>Carl Sloan (UNICO Engineering)</b> <b>916-218-8432 <a href="mailto:Carl@unicoengineering.com">Carl@unicoengineering.com</a></b></p>	<p>Project: <b>Blairs Lane Bridge Replacement</b></p> <p>Project No.: <b>M&amp;H #3926</b> <b>Placerville #40604</b></p>
<p>Spec. Section: Page No.:</p>	<p>Drawing No.: Sheet 6 Detail No.:</p>

**Please provide the following information:**

McGuire and Hester during our grading operations identified an issue with the existing conform grades at the Caltrans Driveway. Attached you'll find a plan showing the existing elevations for review.

Please provide direction on The City of Placerville would like McGuire and Hester to proceed with the installation of AC pavement to allow for drainage.

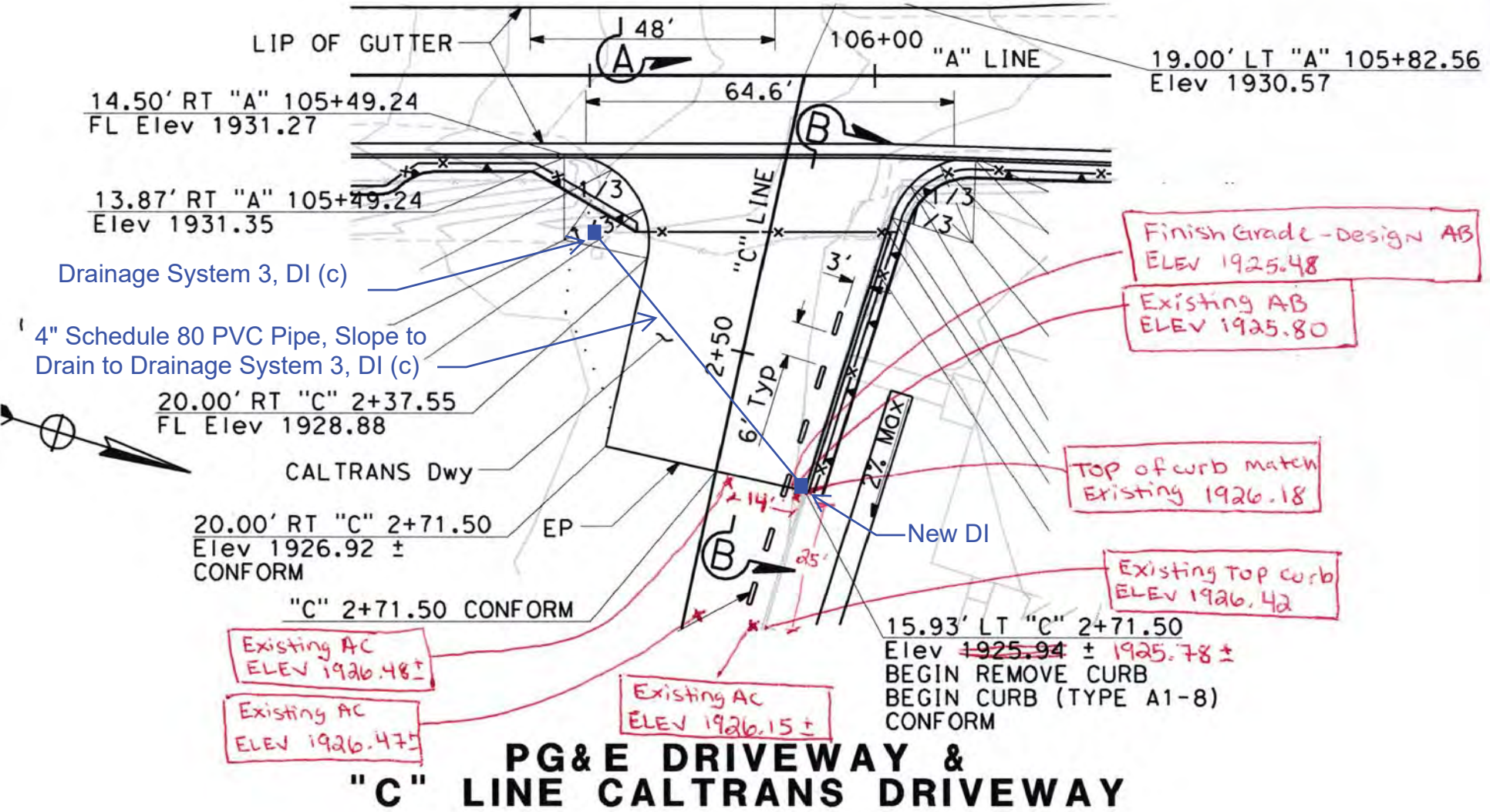
<p>Reply Required by: <b>12/8/2016</b></p>	<p>By: <b>Arnie Garcia</b> Title: <b>Project Engineer</b></p>
--	---

**Response:**

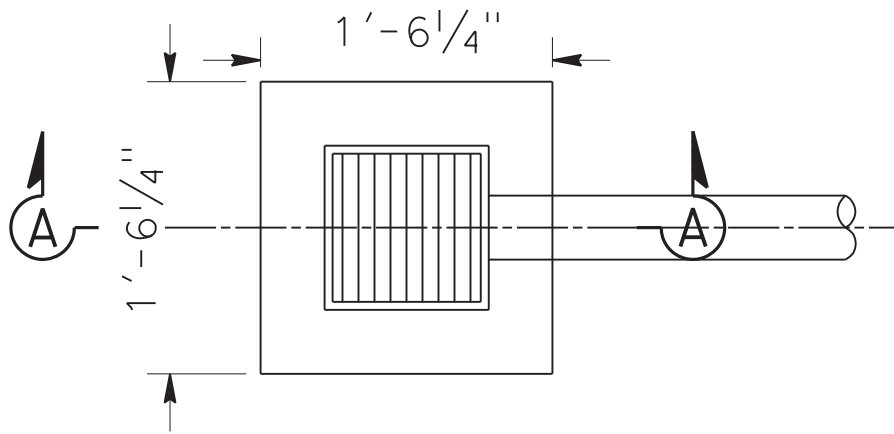
Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

See attached detail for the DI.

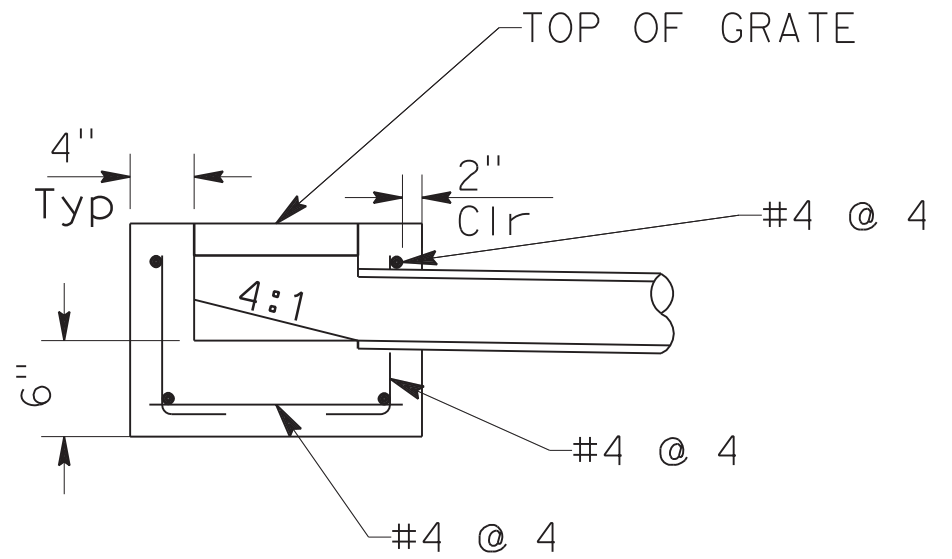
<p>Date:</p>	<p>By:</p>
<p>cc:</p>	<p>Title:</p>



**DETA**  
NO SC




SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Valero Driveway Mod.								Change Order <b>028</b> Billing Number <b>132.0</b> Report Date 12/06/2016 Perform Date 12/06/2016		
<b>Labor Charges</b>								<b>Labor Charges</b>		
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	80.87
L01 4273	R Krug	0.50			61.210			30.61	SC 12.00%	9.70
L02 4948	H Meza	1.00			50.260			50.26	OT Labor	0.00
<b>Equipment Charges</b>								<b>Subtotal Labor</b>		90.57
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-250 Utility Pickup	0.50			22.760			11.38	Other Expenses	0.00
								MU 35.00%		<u>31.70</u>
								<b>Labor Total</b>		<b>122.27</b>
								<b>Equipment Charges</b>		
								Subtotal		11.38
								MU 15.00%		<u>1.71</u>
								<b>Equipment Total</b>		<b>13.09</b>
								<b>Material Charges</b>		
								<b>Subcontract Charges</b>		
								<b>Activity Total</b>		<b>135.36</b>
								<b>Bill Subtotal</b>		<b>135.36</b>
								<b>Bill Total +</b>		<b>135.36</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690								Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>



# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926

EXTRA WORK ORDER NO: 9830028

DATE OF REPORT: 12-6-16

DATE PERFORMED: 12-6-16

TO: CITY OF PLACERVILLE

PROJECT: BLAIRS LAKE BR

DESCRIPTION OF WORK: EXCAVATE - INSTALL 4" DUCTILE IRON BACKFILL @ VALERO DE FOR FUTURE TRENCH DRAIN

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KOUC	0392	F-250 PU	LABOR FOREMAN	.5
4948	HUMBERTO MEZA			LABOR	1


### SUMMARY OF MATERIAL & SPECIALTY FORCES

MATERIALS FOR FUTURE TRENCH DRAIN TO BE CAREFULLY SEPARATE WHEN DRAIN BOX & GRATE GETS INSTALLED

Roger Kouc  
McGuire & Hester Representative

Jim Webb 12/13/16  
Work Authorized by / Date

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans & Valero							Change Order <b>028</b> Billing Number <b>133.0</b> Report Date 12/12/2016 Perform Date 12/12/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	1,722.54
L01 4273	R Krug	6.00			61.210			367.26	SC 12.00%	206.71
L02 7359	C Smith	6.00			75.100			450.60	OT Labor	0.00
L03 1227	JA Day II	6.00			50.260			301.56	Subtotal Labor	1,929.25
L04 6728	E Ramirez	6.00			50.260			301.56	Subsistence	0.00
L05 4948	H Meza	6.00			50.260			301.56	Other Expenses	0.00
<b>Equipment Charges</b>									Other Expenses	0.00
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	MU 35.00%	<u>675.23</u>
E01 02292	Ford F-250 Utility Pickup	6.00			22.760			136.56	Labor Total	<b>2,604.48</b>
E02 07049	Cat 420E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72		
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									<b>Equipment Charges</b>	
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	Subtotal	567.28
M01 5119203	12/12/2016	Ferguson Enterprises / Material Buy			1.000 LS	387.15000		387.15	MU 15.00%	<u>85.09</u>
M02 5122837	12/12/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	23.12000		23.12	Equipment Total	<b>652.37</b>
M03 90085	12/12/2016	Syar Concrete LLC / Slurry Buy			1.000 LS	434.17000		434.17		
M04 0000265561	12/12/2016	Home Depot / Material Buy - Concrete Mix			1.000 LS	29.81000		29.81	<b>Material Charges</b>	
M05 0000198929	12/12/2016	Home Depot / Material Buy - Fittings			1.000 LS	10.12000		10.12	Subtotal	1,629.58
M06 17613035112	12/12/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	745.21000		745.21	MU 15.00%	<u>244.44</u>
									Material Total	<b>1,874.02</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>5,130.87</b>
									Bill Subtotal	<b>5,130.87</b>
									Bill Total +	<b>5,130.87</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____		Page <u>1</u>	
							Contractor: _____ Date: _____			





# EXTRA WORK REPORT

## CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830028  
 DATE OF REPORT: 12-12-16  
 DATE PERFORMED: 12-12-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAZER LANE B.R.  
 DESCRIPTION OF WORK: INSTALL 3 ORANGE INLETS AND RUN PIPE CONNECTING TO NEW DT'S 2 @ VALERO AND 1 @ CAL TRANS

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KRUG	02292	F-250 PU	LABOR Foreman	6
7359	CURTIS SMITH			Operator	6
1227	JESSE DAY			LABOR	6
6728	ERIC RAMONER			LABOR	6
4948	HUMBERTO MEZA			LABOR	6
		07049	420 E BACKHOE		8

### SUMMARY OF MATERIAL & SPECIALTY FORCES

- 180 LF. SCH. 80 4" PIPE
  - 2 yds 6sack SAND SWEEP
  - 10 BAGS OF CONCRETE MIX
  - 2 BAGS GROUT
  - 45° & 22° FITTINGS (1 EACH)
  - 3 20" x 20" CAL TRANS TRAFFIC RATED INLETS
- LOWE DEPT - REPAIR MATERIAL

Roger Krug  
 McGuire & Hester Representative

John Hester 12/13/16  
 Work Authorized by / Date



FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5119203	611331	1

Please refer to Invoice Number when making payment and remit to: TOTAL DUE ---> 387.15

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIRS LN	12/13/2016	151996
Ordered	Shipped	Item Number	Description		Unit Price	UM	Amount
160	160	P40BEPP20	4X20 FT PVC S40 BE PIPE		224.045	C	358.47
<b>Invoice Sub-Total</b>							<b>358.47</b>
<b>Tax</b>							<b>28.68</b>
<b>Total Amt</b>							<b>387.15</b>

**TOTAL DUE ---> 387.15**

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.  
 WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

B-133

FEI PLACERVILLE #610  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

ACCEPT B/O = Y  
SHOWROOM = N  
SOURCE = SOE  
IB FRT = N 0.0  
OB SHP = N 0.0  
12 DEC 2016 11:26

PH: 530-622-3281 FAX: 530-622-2491  
ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

STOCK SALES ORDER

WRITER SALESMAN  
SLW 679  
TAG PO. NO.

5110203	12/12/16	610	610																	
CUSTOMER NO.	CUSTOMER ALPHA	CONTRACT NO.	BID NO.	ORDER DATE	ORDERED BY	INSTRUCTIONS														OML CONTACT
511931	MCGUITREAN		R397376	12/09/16	ARMIE															Garra Woods

**SOLD TO**  
MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603  
CUST PH: 510-632-7676

**SHIP TO**  
COUNTER PICK UP  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

SHIP VIA  
MCI INTL CALL  
PCS BAGS BOXES CRATES LENGTHS BUNDLES  
ROUTE NO. RUN NO. DEPART  
ROUTE DESC.  
VENDOR  
VENDOR PO. NO.  
PACKED BY CHECKED BY

3926	RI GTS LM																			
LINE	ORDER QTY	SHIP QTY	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	PO. NO.	AISLE LOC										

1	150	150	0	PL0REPP20	4X70 FT PVC 640 RE PIPE	224.045	C		210.5 1h	
<p>NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.</p> <p>SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.</p>										

SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE					

CUSTOMER'S SIGNATURE: *[Signature]* DATE: \_\_\_\_\_

TERMS:

CUSTOMER COPY



FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5122837	611331	1

Please refer to Invoice Number when making payment and remit to: TOTAL DUE ---> 23.12

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	3926	12/13/2016	151996
Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount	
1	1	P40S4P	4 PVC S40 SXS 45 ELL	15.755	EA	15.76	
1	1	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	5.65	
<b>Invoice Sub-Total</b>						<b>21.41</b>	
<b>Tax</b>						<b>1.71</b>	
<b>Total Amt</b>						<b>23.12</b>	

**TOTAL DUE ---> 23.12**

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

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 WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.





SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

**RECEIVED**

DEC 15 2016

INVOICE  
 90085

DATE  
 12/12/2016

MCGUIRE AND HESTER

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

=====  
 Customer Code      Project Code      Purchase Order      Job Number      Order  
 MCGUIREHES      4584      P3926-08      3926      50  
 =====

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	cy	95.00	190.00
12/12	41024305	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/12	41024305	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

TOTAL YARDS    TAXABLE AMOUNT    8.000    TAX    NON-TAXABLE  
 2.00                    402.00                    32.17                    0.00

=====  
 DISCOUNT                    TAX ON  
 AMOUNT                    DISCOUNT                    IF PAID BY                    YOU MAY DEDUCT  
 2.00                    0.16                    01/10/2017                    2.16

TOTAL DUE  
 \$434.17

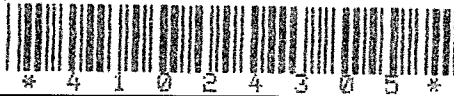
TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!



B-133

**SYAR CONCRETE LLC**  
 P.O. Box 2700  
 Napa, CA 94558  
 Phone # 877-792-7649



DATE 12/12/2016	TICKET # 41024305
P.O. # P3926-08	JOB # 3926
SYAR ORDER # 50	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVERTO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 3527 Durock Rd.
--	---	--

START BATCH/MIX CYCLE 11:35	LEAVE PLANT 11:55	ARRIVE JOB 12:20	START POUR 12:21	FINISH POUR 12:25	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:10	CU. YDS. ORDERED 2	CU. YDS. DELIVERED 2	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 3.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION-SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
2.00	SS060NR9	6 Sack Sand Slurry		yd	
1.00	157015	ENVIRONMENTAL CHARGE		ea	

MINIMUM LOAD CHARGE  
 HWY 50 BROADWAY @ BLAIRS LANE

TRUCK#	DRIVER	PREVIOUS TRUCK
B075	JEFF WINGE	

BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: \_\_\_\_\_

CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.

Signed: \_\_\_\_\_

WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE				SUB TOTAL TAX <b>TOTAL</b>
REQUESTOR'S NAME				
FULL LOAD (GALLONS)	3/4 LOAD (GALLONS)	1/2 LOAD (GALLONS)	1/4 LOAD (GALLONS)	GR TOTAL

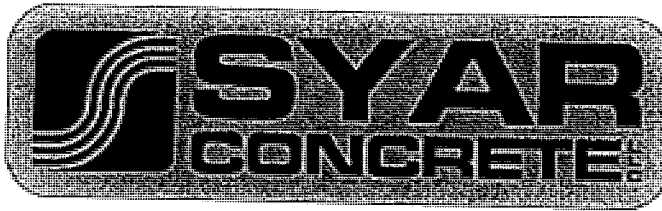
**WEIGHMASTER CERTIFICATE**  
 THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

Truck	Driver	User	Disp	Ticket Num	Ticket ID	Time	Date
B075	1034	user		41024305	41218	11:35	12/12/16
Load Size	Mix Code	Returned	Qty	Mix Age	Seq	Load ID	
2.00	CYDS SS060NR9				D	24301	
Material	Design Qty	Required	Batched	% Moisture	Actual Mat		
CEMII/V	565.0 lb	1130.0 lb	1130.0 lb				
CONSAND	2544 lb	5321 lb	5300 lb	4.57% M	28 gl		
WATER	60.00 GL	406L	406L				
Actual	Nue Batches: 1				Manual	11:35:20	
Load Total:	6430 lb	Design 0.885	Water/Cement 0.885 T	Design 120.0 gl	Actual 27.8 gl	To Add: 92.2 gl	
Slump:	3.00 in	# Water in Truck:	0.0 gl	Adjust Water: 0.0 gl	/ Load	Tric Water:-47.0 gl/ CYD	

320771

No. #: 41024305



B-133

CERTIFICATE OF COMPLIANCE

READY MIX CONCRETE

TO: Mc Guire & Hester

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

MIX ID: CONTRACT NUMBER: Blair Rd. Placerville

CEMENT BRAND: Nevada Cement TERMINAL LOCATION: Sacramento TYPE: II

CHEMICAL ADMIXTURE BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

CHECK BOX IF A CHEMICAL ADMIXTURE WAS NOT USED

MINERAL ADMIXTURE MANUFACTURER: CLASS: F

CHECK BOX IF A MINERAL ADMIXTURE WAS NOT USED

DELIVERY DATE: 12-12-2016

LIST DELIVERY TAG NUMBERS: 41024305

AUTHORIZED SIGNATURE: [Signature]



B-133



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00002 65561 12/12/16 08:55 AM  
CASHIER SARAH

0000-533-829 80# SAKRETE <A>  
80LB SAKRETE CONCRETE MIX  
8@3.45 27.60

SUBTOTAL 27.60  
SALES TAX 2.21  
TOTAL \$29.81

XXXXXXXXXXXX6209 MASTERCARD 29.81  
AUTH CODE 251476/2022473 TA

P.O.#/JOB NAME: 3926



1085 02 65561 12/12/2016 1916

RETURN POLICY DEFINITIONS  
POLICY ID DAYS POLICY EXPIRES ON

A 1 90 03/12/2017  
THE HOME DEPOT RESERVES THE RIGHT TO  
LIMIT / DENY RETURNS. PLEASE SEE THE  
RETURN POLICY SIGN IN STORES FOR



More saving.  
More doing.<sup>SM</sup>

B-133

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM  
CASHIER SANDRA

820633976127	1" SLIDE RPR <A>	4.13
	1" PVC SLIDE REPAIR COUPLING	
049081137588	1-1/4 CPLING <A>	
	1-1/4" PVC COUPLING SXS	
2@0.73		1.46
049081133160	PVC BUSHING <A>	1.26
	1-1/4" X 1" PVC BUSHING SPGXS	
0000-193-712	PVC40 PE PIPE <A>	2.53
	3/4" X 10' PVC40 PE PIPE	

	SUBTOTAL	9.38
	SALES TAX	0.74
	TOTAL	\$10.12
XXXXXXXXXXXX6209	MASTERCARD	10.12
AUTH CODE 446043/2012228		TA

P.O.#/JOB NAME: 3926



1085 01 98929 12/12/2016 4291

RETURN POLICY DEFINITIONS		
POLICY ID	DAYS	POLICY EXPIRES ON
1	90	03/12/2017

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
 McClellan, CA 95652-2027  
 USA  
 Tel: 1-855-284-1127  
 Fax: 916-640-8864  
 www.corix.com

**INVOICE**

**Invoice Number:** 17613035112

**Invoice Date:** 12/14/16

**Page:** 1

**Bill To:** MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603  
 USA

**Ship To:** Corix Water Products (US) Inc.  
 4522 PARKER AVE STE 700  
 MCCLELLAN, CA 95652-2027  
 USA

<b>Cust No.</b> MCGHES	<b>Ship Via</b> CUSTOMER PICK UP	<b>P.O. Date</b> 12/12/16
<b>Terms</b> 2% 10th next month net 30th next month	<b>Ship Date</b> 12/12/16	<b>P.O. Number</b> 3926
<b>Due Date</b> 01/30/17	<b>SalesPerson</b> Dale Rasmussen	<b>Our Order No.</b> 17612036919
<b>PST Exempt No.</b>	<b>Creator</b> JOGONZALEZ	<b>Cust Job Name</b> Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>	<b>Posted By</b> NVERNON	<b>Job No.</b>

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	3	3	130.00	390.00
WWV1271W420	V12 STEEL GRATE HD	EA	3	3	100.00	300.00

\*\*\* If Paid by 01/10/17, discount available = \$13.80 \*\*\*

<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
690.00	0.00


<b>Subtotal:</b>	<b>690.00</b>
Invoice Discount:	0.00
Total Sales Tax:	55.21

**Total:** 745.21

**Please remit payment to:** Corix Water Products (US) Inc.  
 #100, 11020 W. PLANK COURT  
 Wauwatosa, WI 53226  
 USA

Interest is charged at 2% per month on all overdue amounts

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans 7 Valero							Change Order <b>028</b> Billing Number <b>134.0</b> Report Date 12/13/2016 Perform Date 12/13/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	445.88
L01 4273	R Krug	4.00			61.210			244.84	SC 12.00%	53.50
L02 6728	E Ramirez	4.00			50.260			201.04	OT Labor	0.00
<b>Equipment Charges</b>									Subtotal Labor	499.38
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-250 Utility Pickup	4.00			22.760			91.04	Other Expenses	0.00
E02 05034	Compressor P185R I-R	8.00			17.330			138.64	MU 35.00%	<u>174.79</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									Labor Total	<b>674.17</b>
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	<b>Equipment Charges</b>	
M01 0000100339	12/13/2016	Home Depot / Material Buy - Concrete And Grout			1.000 LS	40.34000		40.34	Subtotal	229.68
									MU 15.00%	<u>34.46</u>
									Equipment Total	<b>264.14</b>
									<b>Material Charges</b>	
									Subtotal	40.34
									MU 15.00%	<u>6.05</u>
									Material Total	<b>46.39</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>984.70</b>
									Bill Subtotal	<b>984.70</b>
									Bill Total +	<b>984.70</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>	



# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830028  
 DATE OF REPORT: 12-13-16  
 DATE PERFORMED: 12-13-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAIRS LANE BR  
 DESCRIPTION OF WORK: JACK HAMMER HOLE IN DI @ CAL TRANS  
 TO INSTALL 4" STORM DRAIN PIPE / CONCRETE  
 COLLAR AND THEN BACKFILL

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KRUG	02292	F-250 PU	LABOR FOREMAN	4
6728	ERIC RAMIREZ				4
		05034	AIR COMPRESSOR		8

### SUMMARY OF MATERIAL & SPECIALTY FORCES

Regrade Dways NOT INCLUDED - WORK WILL BE PERFORM AT A LATER DATE.

2 - BAGS FAST SETTING CONCRETE

2 - BAGS NON SHRINK GROUT

Roger Krug

McGuire & Hester Representative

John Wells 12/21/16  
 Work Authorized by / Date

B-134



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 12/13/16 07:30 AM  
CASHIER SANDRA

0000-842-303 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
764661163503 50#GROUT <A>	
50LB NON-SHRINK CONSTRUCTION GROUT	
2@14.70	29.40

SUBTOTAL	37.36
SALES TAX	2.98
TOTAL	\$40.34
XXXXXXXXXXXX6213 MASTERCARD	40.34
AUTH CODE 733631/1012282	TA

NEW LOWER PRICE (NLP)SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926


PRO XTRA SPEND THIS VISIT:	\$37.36
2016 PRO XTRA SPEND 12/12:	\$6,273.35

As of 12/13/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.

This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).



## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans Driveway								Change Order <b>028</b> Billing Number <b>135.0</b> Report Date 12/19/2016 Perform Date 12/19/2016		
<b>Labor Charges</b>								<b>Labor Charges</b>		
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00
L03 1227	JA Day II	1.00			50.260			50.26		
<b>Equipment Charges</b>								<b>Equipment Charges</b>		
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	208.96
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Subsistence	0.00
E02 09043	John Deere 210 LJ Skip Loader	1.00			57.010			57.01	Other Expenses	0.00
E03 15026	CB 224E 47" Double Drum AC 06	1.00			56.810			56.81	MU 35.00%	<u>73.14</u>
								Labor Total		<b>282.10</b>
								<b>Equipment Charges</b>		
								Subtotal		136.58
								MU 15.00%		<u>20.48</u>
								Equipment Total		<b>157.06</b>
								<b>Material Charges</b>		
								<b>Subcontract Charges</b>		
								Activity Total		<b>439.16</b>
								Bill Subtotal		<b>439.16</b>
								Bill Total +		<b>439.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690								Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>



## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>136.0</b> Report Date 12/20/2016 Perform Date 12/20/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	273.20
L01 4273	R Krug	2.00			61.210			122.42	SC 12.00%	32.79
L02 7560	K Sullivan	1.50			50.260			75.39	OT Labor	0.00
L03 3844	C Jones	1.50			50.260			75.39		
<b>Equipment Charges</b>									Subtotal Labor	305.99
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	Other Expenses	0.00
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									MU 35.00%	<u>107.09</u>
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	Labor Total <b>413.08</b>		
M01 5136232	12/20/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	70.47000	70.47	<b>Equipment Charges</b>		
M02 17613035655	12/20/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	248.41000	248.41	Subtotal		
									MU 15.00%	<u>6.83</u>
									Equipment Total <b>52.35</b>	
									<b>Material Charges</b>	
									Subtotal	
									MU 15.00%	<u>47.83</u>
									Material Total <b>366.71</b>	
									<b>Subcontract Charges</b>	
									Activity Total <b>832.14</b>	
									Bill Subtotal <b>832.14</b>	
									Bill Total <b>+ 832.14</b>	
									Page <u>1</u>	



**McGuire and Hester**

Job Contact: Hugo Gutierrez (916) 873-2690

Accepted:

Customer:

Date:

Contractor:

Date:





FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
From: Aaron Imschweiler  
Comments:

Please Contact With Questions:  
530-622-3281

Invoice Number	Customer	Page
5136232	611331	1

Please refer to Invoice Number when making payment and remit to:

TOTAL DUE ---> 70.47

FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Sold To:

MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603

Ship To:

COUNTER PICK UP  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIR'S & BROADWAY	12/20/2016	152362

Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount
1	1	H25515	4 OZ PRO-POXY EPOXY 20	5.990	EA	5.99
1	1	P40SCP	4 PVC S40 SXS COUP	5.583	EA	5.58
1	1	O31020	32 OZ PVC MED CLR CMNT	20.663	EA	20.66
2	2	PSDTC260S	2X60 DUCT TAPE PREM GRD SILV	10.860	EA	21.72
2	2	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	11.30

**Invoice Sub-Total** 65.25  
**Tax** 5.22  
**Total Amt** 70.47

<b>TOTAL DUE ---&gt;</b>	<b>70.47</b>
--------------------------	--------------

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseley.com/terms\\_conditions](http://woiseley.com/terms_conditions)  
GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

FEI PLACERVILLE #610  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

PH: 530-622-3281 FAX: 530-622-2491  
 ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

**STOCK SALES ORDER**

SHOWROOM = N  
 SOURCE = SOE  
 IB FRT = N 0.1  
 OB SHP = N 0.1  
 20 DEC 2016 16:11:

WRITER SALESMAN  
 AT 679

TAG PO. NO.

OML CONTACT  
 Aaron Tschweiler  
 VENDOR

VENDOR PO. NO.

ROUTE NO. RUN NO. DEPART

ROUTE DESC.

PACKED BY CHECKED BY

5136232 12/20/16 610 610  
 CUSTOMER NO. CUSTOMER ALPHA CONTRACT NO. BID NO. ORDER DATE ORDERED BY

INSTRUCTIONS

**SOLD TO**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**SHIP TO**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

SHIP VIA

PCS BAGS BOXES CRATES LENGTHS BUNDLES

CUSTOMER PO. NO. JOB NAME ATTN:

SHIP WT. SHIP DATE DELIVERED BY

3926 BLAIR'S & BROADWAY

LINE	ORDER QTY.	SHIP QTY.	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	P.O. NO.	aisle loc
1	1	1	0	H25515	4 OZ PRO-POXY EPOXY 20	5.990	EA			CTRC
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					0.3 lb
2	1	1	0	P405CP	4 PVC 940 5X5 COUP	5.583	EA			X18D
										1.0 lb
3	1	1	0	031020	32 OZ PVC MED CLR CMNT	20.663	EA			XE10A
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					2.3 lb
4	2	2	0	P50TC260S	2X60 DUCT TAPE PREM GRD STLY	10.850	EA			XE11A
										1.5 lb
5	2	2	0	MW 040984	4 PVC SHR 5W HXH 22-1/2 ELL	5.650	EA			XW3D
										0.5 lb

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.  
 SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.

SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE

CUSTOMER'S SIGNATURE: \_\_\_\_\_

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

TERMS:

\*CONTINUED\*

CUSTOMER COPY

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
McClellan, CA 95652-2027  
USA  
Tel: 1-855-284-1127  
Fax: 916-640-8864  
www.corix.com

RECEIVED INVOICE

DEC 27 2016



Invoice Number: 17613035655  
Invoice Date: 12/21/16  
Page: 1

**Bill To:** MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603  
USA

**Ship To:** BLAIRS LANE BRIDGE  
1312 BROADWAY  
PLACERVILLE, CA 95667  
USA

<b>Cust No.</b>	MCGHES	<b>Ship Via</b>	OUR TRUCK	<b>P.O. Date</b>	12/20/16
<b>Terms</b>	2% 10th next month net 30th next month	<b>Ship Date</b>	12/20/16	<b>P.O. Number</b>	3926
<b>Due Date</b>	01/30/17	<b>SalesPerson</b>	Dale Rasmussen	<b>Our Order No.</b>	17612037662
<b>PST Exempt No.</b>		<b>Creator</b>	JOGONZALEZ	<b>Cust Job Name</b>	Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>		<b>Posted By</b>	NVERNON	<b>Job No.</b>	

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	1	1	130.00	130.00
WWV1271W420	V12 STEEL GRATE HD	EA	1	1	100.00	100.00

\*\*\* If Paid by 01/10/17, discount available = \$4.60 \*\*\*


<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
230.00	0.00

<b>Subtotal:</b>	<b>230.00</b>
Invoice Discount:	0.00
Total Sales Tax:	18.41
<b>Total:</b>	<b>248.41</b>

**Please remit payment to:** *Corix Water Products (US) Inc.*  
*#100, 11020 W. PLANK COURT*  
*Wauwatosa, WI 53226*  
*USA*

Interest is charged at 2% per month on all overdue amounts

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>137.0</b> Report Date 12/21/2016 Perform Date 12/21/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	563.81
L01 4273	R Krug	1.00	1.00		61.210	80.710		141.92	SC 12.00%	67.67
L02 7560	K Sullivan	5.00			50.260			251.30	OT Labor	80.71
L03 3844	C Jones	5.00			50.260			251.30	SC 12.00%	9.69
									Subtotal Labor	721.88
<b>Equipment Charges</b>									Subsistence	0.00
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Other Expenses	0.00
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	MU 35.00%	<u>252.66</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									Labor Total	<b>974.54</b>
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	<b>Equipment Charges</b>	
M01 90281	12/21/2016	Syar Concrete LLC / Material Buy - Slurry			1.000 LS	382.87000		382.87	Subtotal	45.52
M02 0005625058	12/21/2016	Home Depot / Material Buy - Concrete & Mortar Bags			1.000 LS	30.41000		30.41	MU 15.00%	<u>6.83</u>
									Equipment Total	<b>52.35</b>
									<b>Material Charges</b>	
									Subtotal	413.28
									MU 15.00%	<u>61.99</u>
									Material Total	<b>475.27</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>1,502.16</b>
									Bill Subtotal	<b>1,502.16</b>
									Bill Total +	<b>1,502.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>	



# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830078  
 DATE OF REPORT: 12-21-16  
 DATE PERFORMED: 12-21-16

TO: CITY OF PLACENTIA  
 PROJECT: BLAIRS LANE B.R.  
 DESCRIPTION OF WORK: FINISH NEW DRAIN @ CULVERT DRAINAGE  
APPROX STATION 108+10 - 108+30 PAVE SAND SWIRY CAP  
AND MORTAR AN 4 BOX'S

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	Roger Kevic	02292	F-250 PU	Labor Foreman	1/10
7560	KEVIN SULLIVAN			LABOR	5
3844	CHRIS JONES			LABOR	5

### SUMMARY OF MATERIAL & SPECIALTY FORCES

1.5 yaras SACK SAND SWIRY

2 BAGS CONCRETE

1 BAG MORTAR

1 MIXING CONTAINER

Roger Kevic  
 McGuire & Hester Representative

Justin Webb 12/21/16  
 Work Authorized by / Date



SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

INVOICE  
 90281

DATE  
 12/21/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	10

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/21	41024366	1.50	SS060NR9	SAND SLURRY	cy	95.00	142.50
12/21	41024366	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/21	41024366	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

RECEIVED  
 DEC 27 2016  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8.000	TAX	NON-TAXABLE	
1.50	354.50		28.37	0.00	
					TOTAL DUE
					\$382.87
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
1.50	0.11	01/10/2017	1.61		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!





EW-DI'S

B-137

**SYAR CONCRETE LLC**

P.O. Box 2700  
Napa, CA 94558  
Phone # 877-792-7649



DATE 12/21/2016	TICKET # 41024366
PO. # P3926-09	JOB # 3926
SYAR ORDER # 10	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVER TO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 8527 Durock Rd.
--	--	--

START BATCH/MIX CYCLE 11:45	LEAVE PLANT 12:00	ARRIVE JOB 12:20	START POUR 12:25	FINISH POUR 12:30	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:30	CU. YDS. ORDERED 1.5	CU. YDS. DELIVERED 1.5	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 4.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION: SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
1.50	SS060NR9	6 Sack Sand Slurry	yd		
1.00	157015	ENVIRONMENTAL CHARGE	ea		

MINIMUM LOAD CHARGE  
HWY 50BROADWAY EXIT RIGHT ON BLAIRS LANE

TRUCK # 8053	DRIVER MARK WOONER	WASHOUT USED YES <input type="checkbox"/> NO <input type="checkbox"/>	DRUM COUNTER
BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.		WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE	SUB TOTAL TAX <b>TOTAL</b>
SIGNED: _____		REQUESTOR'S NAME	GR TOTAL
CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.		FULL LOAD (GALLONS) 3/4 LOAD (GALLONS) 1/2 LOAD (GALLONS) 1/4 LOAD (GALLONS)	

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

**Batch Data**

Truck	Driver	User	Disp Ticket Num	Ticket ID	Time Date
8053	988	user	41024366	41279	11:49 12/21/16
Load Size	Mix Code	Returned	Qty	Mix Age	Seq Load ID
1.50	CYDS SS060NR9				D 24362
Material	Design Qty	Required	Batched	% Moisture	Actual Wat
CEM II/V	565.0 lb	837.5 lb	340.0 lb		
CONCRETE	2544 lb	3989 lb	3980 lb	4.00% M	18 gl
WATER	60.00 GL	11.71 GL	39.00 GL +		39.00 gl
Actual	Num Batches: 1			Manual	11:49:27
Load Total:	5135 lb	Design 0.886	Water/Cement 0.884 T	Design	90.0 gl Actual 57.3 gl To Add: 32.7 gl
Slump:	4.00 in	# Water in Truck:	0.0 gl Adjust Water:	0.0 gl / Load	Trim Water:-40.0 gl/ CYD

320833



More saving.  
More doing.™

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM  
CASHIER SELF CHECK OUT

099713047358 TUB <A>	5.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
727096305559 RAPID MORTAR <A>	14.45
RAPID SET 55LB MORTAR MIX	

SUBTOTAL	28.16
SALES TAX	2.25
TOTAL	\$30.41

XXXXXXXXXXXX6213 MASTERCARD	30.41
AUTH CODE 201205/3564432	TA

NEW LOWER PRICE (NLP) SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926

PRO XTRA SPEND THIS VISIT:	\$28.16
2016 PRO XTRA SPEND 12/20:	\$6,318.97


As of 12/21/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.

This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).



1085 56 25058 12/21/2016 5739

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Drainage Modifications To Driveways							Change Order <b>028</b> Billing Number <b>143.0</b> Report Date 12/30/2016 Perform Date 12/30/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00
L03 7560	K Sullivan	1.00			50.260			50.26		
<b>Equipment Charges</b>							<b>Equipment Charges</b>			
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	208.96
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Subsistence	0.00
E02 02268	Ford F-150 2013 HD Pickup	1.00			22.760			22.76	Other Expenses	0.00
E03 02211	Ford F250 2008 3/4 ton xcab	1.00			22.760			22.76	MU 35.00%	<u>73.14</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>							<b>Material Charges</b>			
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	Subtotal	68.28	
M01 90450	12/30/2016	Syar Concrete LLC / Concrete Buy			1.000 LS	117.72000	117.72	MU 15.00%	<u>10.23</u>	
							<b>Equipment Total</b>		<b>78.51</b>	
							<b>Material Total</b>		<b>135.38</b>	
							<b>Subcontract Charges</b>			
							<b>Activity Total</b>		<b>495.99</b>	
							<b>Bill Subtotal</b>		<b>495.99</b>	
							<b>Bill Total +</b>		<b>495.99</b>	
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____		Page <u>1</u>	
							Contractor: _____ Date: _____			



EXTRA WORK REPORT  
CONSTRUCTION COMPANY

M&H JOB NO: 3926
EXTRA WORK ORDER NO: 9830020
DATE OF REPORT: 12-30-16
DATE PERFORMED: 12-30-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAIRS LANE BR  
 DESCRIPTION OF WORK: CUT OUT A/C AND POUR CONCRETE  
 COLLARS ABOVE DRAINAGE BOX (3)

SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KEVIN	02292	F-250 PU	LABOR FOREMAN	1
7359	CURTIS SMITH	02268	F-150 PU	OPERATOR	1
7560	KEVIN SULLIVAN	02711	F-250 PU	LABOR	1

SUMMARY OF MATERIAL & SPECIALTY FORCES

1 yard 050c Concrete Form Syar

SCANNED

Roger Kevin  
 McGuire & Hester Representative

Justin Velt 1/17/17  
 Work Authorized by / Date



SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

B-143

INVOICE  
 90450

DATE  
 12/30/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	8

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/30	41024436	7.00	RP060AR5	CONCRETE	cy	101.00	707.00
12/30	41024436	7.00	113065	SYAR SET 55	/y	8.00	56.00
12/30	41024436	1.00	157005	MINIMUM LOAD CHA	ea	80.00	80.00
12/30	41024436	37.00	157000	STANDBY CHARGE	ea	2.00	74.00
12/30	41024436	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

1 yard of concrete @ \$101.00 p/yd plus 8% tax  
 1yard of of concrete set 55 @ \$8.00 p/yd plus 8% tax  
 Total \$117.72

RECEIVED  
 JAN 05 2017  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8,000	TAX	NON-TAXABLE	TOTAL DUE
7.00	855.00		68.41	74.00	\$997.41
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
7.00	0.53	01/10/2017	7.53		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>14</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
----------------------	------------------------	------------------------------	--	--

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

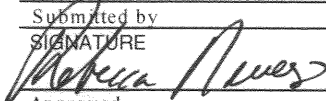
DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
DEWR 24-116.0 .....	\$380.56
DEWR 24-117.0 .....	\$158.44
DEWR 24-118.0 .....	\$236.89
DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

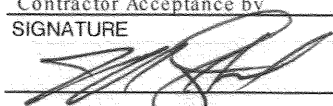
The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted by SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
--	---	-----------------

CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Sheet **1** of **1**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>14</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
----------------------	------------------------	------------------------------	--	--

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
DEWR 24-116.0 .....	\$380.56
DEWR 24-117.0 .....	\$158.44
DEWR 24-118.0 .....	\$236.89
DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by

SIGNATURE	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE
-----------	---	------

Approved


SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
-----------	--	------

Approved

SIGNATURE	(PRINT NAME & TITLE)	DATE
-----------	----------------------	------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP AREA MANAGER	DATE 2/22/17
--	--	-----------------

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. 13	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

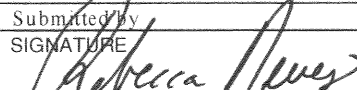
DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order:

Estimated Cost:  Decrease  Increase **\$5,339.13**

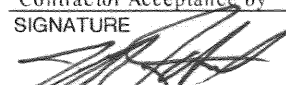
By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted By SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
--	---	-----------------

Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
-----------------------	--	------

Approved SIGNATURE	(PRINT NAME & TITLE)	DATE
-----------------------	----------------------	------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
--	---	-----------------



CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Sheet **1** of **1**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>13</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
----------------------	------------------------	------------------------------	--	--

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,339.13**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by		
SIGNATURE <i>Rebecca Neves</i>	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved		
SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE <i>Jeff Hoebel</i>	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. 13	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
---------------	-----------------	-----------------------	---	---

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

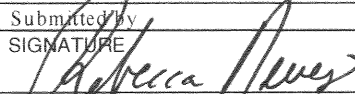
DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order:

Estimated Cost:  Decrease  Increase **\$5,339.13**

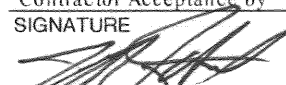
By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted By SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
--	---	-----------------

Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
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Approved SIGNATURE	(PRINT NAME & TITLE)	DATE
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We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
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CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. 13	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
---------------	-----------------	-----------------------	---	---

To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council.  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,339.13**

By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted by		
SIGNATURE <i>Rebecca Neves</i>	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved		
SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE <i>Jeff Hoebel</i>	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17

<b>CONTRACT CHANGE ORDER MEMORANDUM</b> CEM-4903 (REV06/2006)		Date: 01/23/2016		
To City Of Placerville		<b>Blairs Lane Bridge Replacement</b>		
From UNICO Engineering, Inc., Carl Sloan, RE		Prj # 40604 Fed No.: BRLO 5015 (009)		
CCO No <b>12</b>		Contingency Balance (Including this change)		
CCO Amount <b>\$36,900.00</b> <input checked="" type="checkbox"/> Increase <input type="checkbox"/> Decrease		Is this request in accordance with environmental documents? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Original Contract Working Days:  <u>170</u>	Time Adjustment This Change:  <u>0</u> Day(s)	Previously-Approved CCO Time Adjustments  <u>21</u> Day(s)	Percentage Time Adjusted To Date (Including this change)  <u>12%</u>	Total Number Of Unreconciled Deferred-Time CCO's (Including this change)  <u>0</u>

**This Change Order provides for:**

The installation of the Sanitary Sewer pump station for the Caltrans Yard. This additional work is a result of the Sewer redesign which raised the sewer line causing the need for a sanitary sewer pump station to serve the Caltrans Yard and Office facilities.

**Extra Work Calculations:**

**Working Days:**

No additional working days are granted.

**Total CCO 10 Cost – \$36,900, 0 Additional Working Days**

**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>11</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order must be approved by the City Council:**  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

This Change Order changes the Contract in accordance with the attached Field Change Directive (FCD) 17R1. This Change Order hereby modifies Specification Section 39 Hot Mix Asphalt to allow paving when ambient temperatures are 40 degrees and rising, and when surface temperatures are above 32 degrees.

Estimated Cost:  Decrease  Increase **Deferred**

By reason of this order the time of completion will be adjusted as follows: **No additional working days granted**

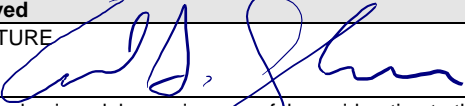
**Submitted by**

SIGNATURE 	(PRINT NAME & TITLE) <b>Rebecca Neves P.E., City Engineer</b>	DATE 12/21/16
--	--	------------------

**Approved**

SIGNATURE	(PRINT NAME & TITLE) <b>Cleve Morris, City Manager</b>	DATE
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**Approved**

SIGNATURE 	(PRINT NAME & TITLE) <b>Resident Engineer</b>	DATE 12/21/16
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We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.**

**Contractor Acceptance by**

SIGNATURE	(PRINT NAME & TITLE)	DATE
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**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)  
**FIELD CHANGE DIRECTIVE #17R1**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17R1**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/20/2016**

**DESCRIPTION OF CHANGE:**

In addition to documentation provided via FCD 17, this revision includes direction to M&H to pave the project in compliance with the contract and the attached redlined QC Plan.

M&H has stated that paving can be completed in one shift. Paving shall occur in a single shift on 12-21-16 or 12-22-16 at M&H's option. Geocon shall perform QA/QC role. Areas of AB that show minor rutting (in front of Caltrans and PG&E driveway approximately 105+75 to 106+25) shall be finish rolled with a static roller prior to paving. Paving shall begin when conditions identified by Geocon in referenced letter are met. In addition, temperature of AB shall be a minimum of 32 degrees.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

Ambient temperatures are below minimum temperatures as defined in Specification Section 39-3.04.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



December 20, 2016

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: Section 39-2.02 – Quality Control Plan (Revision 1) – Standard Construction Process – Asphalt Paving

Mr. Sloan:

The following Quality Control Plan will be executed in compliance with Section 39-2 Standard Construction Process for the ½" Medium Type "A" HMA PG64-10 w/15% Reclaimed Asphalt Pavement. Quality Control Material Testing will be completed by the Teichert Aggregates at the Perkins Plant located at;

- 8760 Kiefer Blvd. Sacramento, Ca. 95826.

Quality Control Organization - Teichert Aggregates Quality Assurance Team:

- Teichert Aggregates – Mike Kucunik - 916-386-6988
  - Mike Kucunik. - Quality Assurance Supervisor for the Blairs Lane Project.
  - Eric Gifford. - Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt Concrete Supervising Laboratory Technician.
  - Trenton Crouse. - Quality Assurance technician III.
  - James Haas. - Technician III.
  - Theodore Leal. - Technician III.
  - Luis Maca. - Quality Assurance Technician II.
  - John Scroggins. - Quality Assurance Technician II.
  - Brandon Snyder. - Quality Assurance Technician III.
  - Taylor Theis. - Quality Assurance Technician I.
- Attached is a copy of the CALTRANS Qualified Laboratory Inspection Report for the Teichert Perkins Plant for sampling and testing.
  - Inspected by – CALTRANS, Jackie Treat, (#107).
  - (A list of certifications for the Teichert Perkins Laboratory is included).
- A copy of the approved submittal #59 – ½" 64-10 HMA Type "A" w/15% RAP.
- Material Testing at the Teichert Perkins Plant will be completed per the CALTRANS Standard Specification Section 39-22.02B, "Minimum Quality Control – Standard Construction Process".

All testing shall be performed per Section 39-202B. Moisture Susceptibility and Hamburg tests shall not be required.

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule:

Quality Control – Standard Construction Process			
<del>Quality Characteristic</del>	<del>Test Method</del>	<del>Min. Sampling &amp; Testing Frequency</del>	<del>HMA Type "A"</del>
<del>Aggregate Gradation</del>	<del>Ca. Test 202</del>	<del>1 test/per 750 Tons</del>	<del>JMF +/-</del>
<del>Sand Equivalent</del>	<del>Ca. Test 217</del>	<del>1 test/per 750 Tons</del>	<del>47</del>





(Tensile Strength Ratio, %)

Smoothness	Section 39-1.12B & D	TBD Onsite	12-Ft
• Profilograph not required.			
(McGuire & Hester)			Straight Edge

Paving Operations:

- Weather permitting; M&H will proceed with placement of the ½" Max. Med. Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement per the modified construction methods provided by GEOCON Consultants Inc. within the recommendation letter, dated December 6, 2016.
- Asphalt Plant Batching - Teichert Aggregates will batch the asphalt mix from its Perkins Plant (8760 Kiefer Blvd. Sacramento, Ca. 95826), at 325 degrees. ~~The City of Placerville Quality Assurance representative is needed at the Teichert Plant to preform Quality Assurance Testing.~~ **Teichert**
- Hauling - All loads batched from the Teichert Perkins plant will be loaded onto Transfer haul trucks. All loads will be tarped, per FCD 17. Loads not tarped will be rejected. Loads which are tarped but arrive with asphalt mix at a temperature below 280 degrees will be rejected; ~~all cost for the rejected asphalt mix including the hauling and paving crew cost impacts will be paid by the City of Placerville.~~ **Per approved submittal 59**. Determination of the rejected or acceptable loads will be made in coordination with McGuire & Hester and the City of Placerville's Quality Assurance Representative.
- Construction – M&H will place a single .3' section of asphalt mix, Per FCD 17.
  - M&H will begin its operation at the PG&E & Cal-Trans Driveways on Wednesday December 21, 2016 ~~including any deep lift sections determined by the QC/QA representative and M&H representative Johann Berg (Minor Hand Work may be needed).~~ **Finish roll with static roller.**
  - Blairs Lane roadway paving will begin on, December 22, 2016, from the Broadway intersection towards Baco Drive. (Minor Hand Work may be needed). **12-21 or 12-22 at M&H option.**
  - M&H will coat all concrete and asphalt vertical edges with SS-1 oil prior to placement of asphalt mix.
  - M&H will receive and place the asphalt mix with the Cat Paver 1055 D, (a Weiler Paver P 385A will be onsite for back up).
  - The CAT 67" CAT Roller CB 534D will complete the initial breakdown roll prior to the asphalt mix cooling to 250 degrees. (The 51" CAT Roller CB 334E may be required at various locations for initial breakdown). Adjustments will be determined in the field. Field compaction testing to be provided by Geocon.
  - The 51" CAT Roller CB 334E will complete the intermediate compaction.
  - The CAT 47" CB 224E will complete the finish breakdown.
  - The intermediate and final roller operators will ensure temperatures levels per the Geocon letter during the final paving operations.
  - Pavement Smoothness will be monitored by M&H w/12-foot straight edge.
    - No Profilograph required.

Driveways may be built first at M&H option.

Rollers shall be minimum of those required in Geocon letter.

Corrective Actions:

- Teichert Plant Technicians and M&H will coordinate and confirm the asphalt mix quality characteristics.
  - Corrective Actions; Determination of Corrective Actions, by McGuire and Hester Forman Johan Berg, during the operations will be completed in coordination with the City of Placerville QC/QA Representative - Geocon.
    - Any corrective actions to the AC mix design, batching, hauling, compaction methods, paving, or any other paving corrective actions will be identified and coordinated with the onsite QC/QC representative.
    - Any sub-grade (AB) repairs or concerns will be determined by M&H and identified to Geocon to determine the correct action needed. ~~Any cost impacts will be tracked and paid by the City of Placerville on force account/T&M.~~



If you have any questions, comments, and/or concerns with the Quality Control Plan as outlined please feel free to call me at 916-873-2690.

Sincerely,  
**McGuire & Hester**

A handwritten signature in black ink, appearing to read "Hugo Gutierrez", is written over the company name.

Hugo Gutierrez  
Senior Project Manger



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #17**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/9/2016**

**DESCRIPTION OF CHANGE:**

Cold Weather Paving Recommendations. See attached letter.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

These are recommendations for paving under 50 degrees.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

A handwritten signature in blue ink, appearing to read "C.A. Sloan".

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



Project No. S1080-05-01  
December 6, 2016

Carl A. Sloan, PE, MBA  
UNICO Engineering, Inc.  
110 Blue Ravine Road, Suite 101  
Folsom, California 95630

Subject: COLD WEATHER PAVING RECOMMENDATIONS  
BLAIRS LANE BRIDGE REPLACEMENT  
PLACERVILLE, CALIFORNIA

Dear Mr. Sloan:

As requested, we are providing this letter summarizing cold-weather paving recommendations. We understand that hot mix asphalt (HMA) paving of the Blairs Lane Bridge project is occurring this month. The project specifications require ambient air temperature to be 50° F and rising for paving operations, primarily to ensure that compaction can be achieved. Based on our experience, paving may occur at cooler temperatures such as 40° F and rising, provided some measures are taken to achieve proper compaction:

- Use the approved alternate HMA mix design (submittal 59)
- Batch the HMA at the highest temperature possible without compromising the integrity of the mix.
- Cover (tarp) all trucks transporting HMA. Any uncovered trucks arriving at the site should be rejected.
- The specified total HMA section thickness is 0.3 feet. We recommend placing the HMA in a single lift to increase the time duration that the HMA can be compacted, and therefore the probability that compaction will be achieved.
- Because of the larger lift thickness, start the breakdown roll as quickly as possible. Take measures to reduce the amount of “hand work” required to spread the HMA.
- Use a minimum of two 7-½-ton or larger dual drum vibratory rollers, one breakdown roller and one intermediate roller.
- HMA breakdown temperature should be no less than 250°F.
- Use a 4-ton or larger dual drum vibratory roller for final compaction.
- Final compaction should be achieved before the HMA mat cools below 150°F.

These recommendations are provided to assist the contractor in achieving the required compaction in cold weather conditions. All paving operations should be performed in the presence of our field representative, who will monitor HMA temperatures and perform compaction testing to help establish an appropriate compaction program. The contractor remains solely responsible for achieving the required compaction and constructing the pavement improvements in accordance with the projects plans and specifications.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in this area at this time. We make no warranty, express or implied.

Please contact us if you have any questions regarding this letter or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Jeremy J. Zorne, PE, GE  
Senior Engineer



Richard Church, PE,  
Project Engineer





**CITY OF PLACERVILLE, CALIFORNIA  
DEVELOPMENT SERVICES DEPARTMENT  
ENGINEERING DIVISION**

approved flyer. Flyers may be hand delivered or mailed. The City will supply a list of addresses after award of the project. Anticipate approximately 100 residences.”

6. On page TSP-4, After “TEMPORARY TRAFFIC CONTROL” Heading, add the following section:

**Add to section 12-1.01A:**

Two Portable Changeable Message Signs are required for the road closure and detour. Start displaying the message on the portable changeable message sign 2 weeks before closing the road at locations directed by the Engineer. The Engineer will determine the message to be displayed. Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.

7. On page TSP-7, in Section 12-5.04, add the following:

“Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.”

8. On page TSP-10, Section 13-3.01A; add the following:

“You are responsible for implementing the SWPPP and performing any corrective actions required by the Engineer. Payment for implementing the SWPPP and performing any corrections is included in the various water pollution control items and Job Site Management.”

9. On page TSP-33 and TSP-34, Delete Section 15-2.06B, “Destroy Monitoring Well”.

10. On page C-2 of the Contract (Agreement), in Article 5 “Indemnity,” Add Lakemont LLC as indemnified

11. The Contractor’s Bid and Bid Price Schedule. Pages P-4 thru P-10 are replaced with the attached ones and must be used when submitting your bid. The changes are as follows:

Item #26 “Destroy Monitoring Well” - Delete item

Item #61 “Erosion Control (Dry Seed)(SQFT) - Change the Quantity 3100 to 5000

Item #86 “60” Precast Concrete Pipe Manhole” – Change unit of measure from LF to EA

Item #87 “72” Precast Concrete Pipe Manhole” - Change unit of measure from LF to EA

**CHANGES AND/OR CLARIFICATIONS TO THE PLANS:**

12. Replace plan sheets ECQ-1, DQ-1, DQ-2, UT-1, and Q-2 with the attached revised sheets in accordance with changes to the project Specifications listed above.

**BIDDER QUESTIONS:**

13. Who is responsible for testing?

A. UNICO (Construction Management and RE) is partnering with GEOCON to perform Hazardous Waste Testing. They are responsible for testing of soils, backfill, structural backfill, aggregate base, asphalt, concrete and other testing as required.

14. Question: Is there a temporary pumping plan for the sewer? What is the GPM?

A. No, there is no temporary pumping plan in the plans or specifications; if the contractor wishes to submit a temporary pumping plan, they are responsible for the design of the plan. The plan should include provisions for 145 GPM at the south side of Hangtown

## PERSONNEL QUALIFICATIONS

**Name:** Eric Gifford

**Position:** Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt  
Supervising Laboratory Technician

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

Oversees and coordinates the processing of Geology test materials with other technicians and the Geology department.  
Processing new asphalt mix designs for the various plants for the up coming year and mix designs for upcoming jobs. Also processes mix verifications for the outside plants. Providing plant coverage for other technicians when necessary and coverage for QA at various jobsites in both asphalt and soils.

### EXPERIENCE

Since August 2000, Mr. Gifford has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties involving aggregates, soils and asphalt testing.

#### Caltrans QC/QA Inspect and test

1. 03 0A7814 Mack Rd Rt99
2. 03 366404 Camino
3. 03 0A6004 Colfax RT 80
4. 10 0A7404 Jacktone Rd Rt120

Various Sacramento County overlay projects

Various City of Elk Grove paving projects

#### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)	5/14/01
ACI Concrete field technician level	6/26/04
Asphalt Institute Certification HMA mix design class	3/4/05

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

**NICET Certification:**

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils		X		
Concrete	X			
Asphalt		X		

**TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler



- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

**EDUCATION**

Bachelor of Arts in Geology, 2000  
California State University Sacramento  
Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**ERIC GIFFORD**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T 324 Hamburg Wheel-Track testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**ERIC GIFFORD**

of  
**TEICHERT PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15      Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Michael Kocunik  
**Position:** Quality Assurance Supervisor – Perkins and Grantline  
**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

QA Lab, Teichert's Perkins Plant.

- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Determination to asphalt content - CTM310
- Sieve Analysis of Aggregates - CTM 202
- Total Moisture Content of aggregate by Drying - CTM 202
- AC Mix moisture Content by Drying - CTM 310
- Inspection of hot mix asphalt plant equipment, operation, and production

### EXPERIENCE

Since 1997, Mr. Kocunik has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities.

Mr. Kocunik also performed various testing procedures in the QA Lab for the Tracy Aggregates and Hot Mix Asphalt facilities. He has carried out QC duties on Cal-Trans Contract Nos. 10-414904, 03-444904, 03-384504, 03-1A69U4, 03-0A7814, 10-459304, 03-0A5504, 10-1A5204, 03-366404, and 10-218814.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gage safety and operation)

#### NICET Certification:

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils	X			
Concrete	X			
Asphalt	X			

### TRAINING

Trained in quality control testing which includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count

### EDUCATION

Bachelor of Science in Sociology, 1999 - California State University Sacramento  
Asphalt Institute "Construction of Quality Hot Mix Asphalt Pavements" June 2008

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**MIKE KOCUNIK**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-µm, Wash</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>R30 Mixture Conditioning of HMA</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 324 Hamburg Wheel-Track Testing</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T248 Reducing Sample of Agg</u>
<u>T 96 LA Rattler</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 176 Sand Equivalent</u>	
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 269 % Air Voids</u>	
<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>	
<u>T 283 Moisture-Induced Damage</u>	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat** Jackie Treat

**Certified Independent Assurance (IA) Number** 107

**Date Issued:** 06/06/16 **(Expires 2 year after issue date)** **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**MIKE KOCUNIK**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

06/18	.....	x CTM 105 – CALCULATIONS
06/18	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
06/18	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
06/18	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
06/18	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
06/18	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
06/18	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
06/18	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
06/18	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
06/18	.....	<input checked="" type="checkbox"/> CTM -227 -CV
06/18	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
06/18	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**FERNANDO RIVERA**  
District 03 Materials Engineer

**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 06/06/16    Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES BREWSTER  
TEICHERT**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.  
Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	
T 27 Sieve Analysis, Fine & Coarse Agg.	
T 96 L.A. Rattler	
T 176 Sand Equivalent	
T 210 Aggregate Durability Index	
T 335 Crush Particle	
D4791 Flat and Elongated	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Teichert

Date Issued: 2/11/15 Expires 2/16 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMES BREWSTER**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
Expiration Date                      Test Method

02/16	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
	.....	<input type="checkbox"/> CTM 201 – SAMPLE PREPARATION
	.....	<input type="checkbox"/> CTM 202 – SIEVE ANALYSIS
	.....	<input type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
	.....	<input type="checkbox"/> CTM 217 – SAND EQUIVALENT
	.....	<input type="checkbox"/> CTM 226 – MOISTURE CONTENT
	.....	<input type="checkbox"/> CTM -227 -CV
	.....	<input type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
	.....	<input type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
	.....	<input type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
	.....	<input type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
	.....	<input type="checkbox"/> CTM 366 – STABILOMETER
	.....	<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
	.....	<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
	.....	<input type="checkbox"/> CTM 382 – PERCENT ASPHALT
	.....	<input type="checkbox"/> CTM -204,206
	.....	<input type="checkbox"/> CTM -207,211
	.....	<input type="checkbox"/> CTM -212,213,214,
	.....	<input type="checkbox"/> CTM -234,235,371
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**KEVIN ESPINOZA**  
District 03 Materials Engineer

*Jackie Treat*

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 02/11/16      Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.



## PERSONNEL QUALIFICATIONS

**Name:** Trenton Crouse

**Position:** QA Technician III

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Crouse has performed various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. He is also responsible for the testing of AMRL and Caltrans proficiency samples. Mr. Crouse is also responsible for maintaining lab and technician accreditations or certifications as well as verification of the testing equipment available at the labs.

### QUALIFICATIONS:

Mr. Crouse has been employed by Teichert Aggregates' Quality Assurance Department since 2006. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. He also holds a large number of Caltrans Certifications, AASHTO Certifications, 2 ACI Certifications, and Level 2 NICET Certifications. He has worked as the main plant technician on a number of Caltrans projects at a number of Teichert locations, both during the day and at night. Mr. Crouse has worked independently on a number of projects at outside locations and at the Perkins location.

### EXPERIENCE:

Mr. Crouse has worked with the Geology Department to evaluate various locations and their suitability for their use in aggregate production. He has experience at the majority of Teichert Hot Mix facilities and Rock Plant facilities. Since 2006 Mr. Crouse has been responsible for maintaining the quality of material through all phases of production at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4471 Viscosity
- D 4791 Flat and Elongated

**ACI Aggregate Testing Technician Level 1**

**ACI Aggregate Testing Technician Level 2**

**NICET Certification:**

	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>
<b>Construction Materials Testing:</b>				
Soils	X	X		
Asphalt	X	X		
Concrete	X	X		
<b>Highway Materials</b>	X	X		

**Nuclear Gauge Safety Training Class  
Hazmat Nuclear Gauge Transportation/Use**

## **TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates, Soils  
Apparent Specific Gravity  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Micro Deval  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Soil Gravity  
Atterburg Limits  
Expansion Index  
Particle Size Analysis of Soils  
In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
HMA Compaction Nuclear Gauge  
Stabilometer Value  
Resistance of Compacted Bituminous Mixture to Moisture Induced Damage  
AC Content by Ignition and Nuclear Methods  
Gyratory Compaction of Samples  
Hamburg Wheel Track Testing

## **EDUCATION:**

Associate of Science in Construction Management Technology  
Cosumnes River College  
5/21/2014  
Associate of Arts in Business Administration  
Cosumnes River College  
Awaiting Commencement in early 2106

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TRENTON CROUSE**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyratory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TRENTON CROUSE**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
05/17	.....	<input checked="" type="checkbox"/> CTM -301 R-VALUE
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** James Haas  
**Position:** Technician III  
**Employer:** Teichert Quality Assurance

### AREA OF RESPONSIBILITY

Perkins Lab, Rock Plant, and Hot Plant Facilities:

- CTM 105
- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Soil and Aggregate sample preparation – CTM 201
- Sieve Analysis of Aggregates - CTM 202
- Sand Equivalent – CTM 217
- Moisture Content of Soils - CTM 226
- Evaluating Cleanness of Aggregate - CTM 227
- Durability of Aggregate - CTM 229
- Moisture Content (Asphalt) - CTM 370
- AC Content - CTM 379, CTM 382

### EXPERIENCE

Since July 2003, Mr. Haas has been employed by Teichert Aggregates' Quality Assurance Department as a Quality Assurance Technician. Mr. Haas has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Haas has gained experience through Teichert's In House Proficiency Program involving aggregates, soils and asphalt testing.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- |   |  |
|---|--|
| • CTM 105 Calculations  | • R 30 HMA Mixture Conditioning                      |
| • CTM 125 Sampling  | • T 11 Material Finer than #200 by Wash              |
| • CTM 201 Sample Preparation                                  | • T 27 Aggregate Gradation                           |
| • CTM 202 Sieve Analysis                                      | • T 30 Mechanical Analysis of Extracted Aggregate    |
| • CTM 205 Crushed Particles                                   | • T 84 Specific Gravity of Fine Aggregate            |
| • CTM 206 Specific Gravity and Absorption of Coarse Aggregate | • T 85 Specific Gravity of Coarse Aggregate          |
| • CTM 207 Specific Gravity and Absorption of Fine Aggregate   | • T 96 LA Rattler                                    |
| • CTM 208 Apparent Specific Gravity of Fine Aggregates        | • T166 Bulk Specific Gravity of Compacted HMA by SSD |
| • CTM 211 Abrasion of Coarse Aggregate by LAR                 | • T 176 Sand Equivalent                              |
| • CTM 217 Sand Equivalent                                     |  |

- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

## **TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- AC Contents
- AC Moistures

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES HAAS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMESON HAAS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -371- MOISTURE SENSITIVITY
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,204,214,384
05/17	.....	<input checked="" type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Theodore Leal

**Position:** Technician III

**Employer:** Teichert Aggregates Quality Assurance Department

### AREA OF RESPONSIBILITY:

Mr. Leal is responsible for various testing procedures and maintaining the quality of materials being produced at the Perkins Quality Assurance Lab for the Perkins Aggregates and Hot Plant Facilities as well as other Teichert facilities.

### QUALIFICATIONS:

Mr. Leal has worked with AMRL and CCRL proficiency testing programs. Soil Testing: Atterberg limits, Soil Compaction, Sieve Analysis, Hydraulic Conductivity (D 5084), Expansion Index, and Resistance Value. Concrete and Concrete Aggregate Testing: Compression Strength, Specific Gravity and Absorption of Aggregates, and Durability.

### EXPERIENCE:

Mr. Leal has been employed by Teichert Aggregates' Quality Assurance Department since 2010. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Leal has received training through Teichert's in-house training program dealing with aggregates, soils, and asphalt testing. Mr. Leal previously worked at Youngdahl Consulting for 5 and 1/2 years testing soil, aggregate, and concrete.

### CERTIFICATIONS AND RATINGS:

ACI Concrete Laboratory Testing Technician Grade I

Troxler Certified (Nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 R Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

#### **TRAINING AND CONTINUING EDUCATION:**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

Sampling of Aggregates and Asphalt  
 Specific Gravity of Coarse Material, Fine Aggregates, Soils  
 Apparent Specific Gravity  
 Crushed Particle Count  
 Friable Particles  
 Soundness of Aggregate by Sodium Sulfate  
 Unit Weight  
 LA Rattler  
 Micro Deval  
 Laboratory Compaction of Soils  
 Resistance Value  
 Atterberg Limits  
 Particle Size Analysis of Soils

In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value

**EDUCATION:**

Westmont High School, 1985  
High School Diploma  
West Valley College  
1985-1989

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**THEODORE LEAL**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash

T 27 Sieve Analysis, Fine & Coarse Agg.

R30 Mixture Conditioning of HMA

T 84 Bulk SpG (SSD) of Fine Aggr.

T 85 Bulk SpG (Oven Dry), Coarse Agg.

T 96 LA Rattler

T 176 Sand Equivalent

T 209 Theoretical Max. SpG (Method A)

T 269 % Air Voids

T 275 Bulk SpG, Compacted HMA, Paraffin

T 283 Moisture-Induced Damage

T 304 Uncompacted Void Content, Fine

T 308 Binder Content, Ignition, Method A

T 312 Superpave Gyrotory Compactor

T 324 Hamburg Wheel-Track Testing

T248 Reducing Sample of Agg

T 335 Fractures in Coarse Aggregate.

D7741 Apparent Viscosity

D 4791 Flat & Elongated Particles

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat**\_\_\_\_\_

Certified Independent Assurance (IA) Number **#107**\_\_\_\_\_

Date Issued: **04/15/15** Expires **4/17** Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TED LEAL**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date                      Test Method**

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -371-RESISTANCE TO MOISTURE
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211
04/17	.....	<input checked="" type="checkbox"/> CTM -234,235
05/17	.....	<input checked="" type="checkbox"/> CTM -204,214,301,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Luis Maca  
**Position:** Quality Assurance Technician II  
**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Maca is responsible for various testing procedures at the Perkins and Woodland Quality Assurance Labs for the Aggregates and Hot Mix Asphalt facilities. Mr. Maca maintains the quality of the materials being produced at these facilities and is also responsible for sampling and providing materials being produced to outside agencies and customers when requested to do so.

### EDUCATION / QUALIFICATIONS:

Mr. Maca graduated from Cache Creek High School in Yolo, CA in 2009. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood & Woodland Aggregates and Hot Mix Asphalt facilities. Mr. Maca has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture

- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP

#### Damage

- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**LUIS MACA**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jacques Guet*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**LUIS MACA**

of  
**TEICHERT-PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,211,212,214
04/17	.....	<input checked="" type="checkbox"/> CTM -384-
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** John Scroggins

**Position:** Quality Assurance Technician II

**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Scroggins is responsible for various testing procedures in the Perkins Quality Assurance Lab for the Aggregates and Hot Mix Asphalt facilities including the following:

- Moisture Content
- Sand Equivalent
- Durability Index
- T.S.R.
- Specific Gravity of Coarse Material, Fine Aggregates, Soils
- Crushed Particles
- Sampling/Gradations of Aggregates and Asphalt
- Sample Preparation
- Sieve Analysis
- Theoretical Maximum Specific Gravity of Bituminous Mixtures
- Asphalt Binder Content by Ignition Oven

### EDUCATION / QUALIFICATIONS:

Mr. Scroggins graduated from Redwood High School in Visalia, CA and attended College of the Sequoias and San Diego State University. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood, Woodland, Martis, Vernalis and Cool Cave Aggregates and Hot Mix Asphalt facilities. Mr. Scroggins has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse

- CTM 207 Specific Gravity and Absorption of Fine Aggregate
  - CTM 211 Abrasion of Coarse Aggregate by LAR
  - CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
  - CTM 217 Sand Equivalent
  - CTM 226 Moisture Content
  - CTM 227 Cleanness of Coarse Aggregate
  - CTM 229 Durability
  - CTM 234 Uncompacted Void Content of Fine Aggregate
  - CTM 235 Flat and Elongated Particles
  - CTM 304 HMA Preparation for Testing
  - CTM 308 Bulk Spgr. of HMA Briquettes
  - CTM 309 Rice Spgr. and Density of HMA
  - CTM 366 Stabilometer
  - CTM 370 HMA Moisture (Microwave)
  - CTM 371 Moisture Sensitivity (TSR)
  - CTM 379 Percent Asphalt (Nuclear)
  - CTM 382 Percent Asphalt
  - CTM 384 Gradations for HMA using up to 25% RAP
- Aggregate
  - T 96 LA Rattler
  - T166 Bulk Specific Gravity of Compacted HMA by SSD
  - T 176 Sand Equivalent
  - T 209 Theoretical Max Density
  - T 210 Aggregate Durability Index
  - T 248 Reducing Samples of Aggregate
  - T 255 Moisture Content by Oven
  - T 269 Percent Air Voids
  - T 275 HMA Bulk Spgr. (Paraffin)
  - T 283 Resistance of HMA to Moisture Damage
  - T 304 Fine Aggregate Angularity
  - T 308 Binder Content Method A
  - T 312 Superpave Gyratory Compactor
  - T 324 Hamburg Wheel Track Test
  - T 329 Moisture Content of HMA, Oven Dry
  - T 335 Crushed Particles
  - D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JOHN SCROGGINS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JOHN SCROGGINS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
04/17	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
04/17	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
04/17	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206, 207,211,234,235,
04/17	.....	<input checked="" type="checkbox"/> CTM -371,384
05/17	.....	<input checked="" type="checkbox"/> CTM 204,214
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'

Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Brandon Snyder  
**Position:** Quality Assurance Technician III  
**Employer:** Teichert Aggregates - Quality Assurance Laboratory

### AREA OF RESPONSIBILITY

Mr. Snyder has performed various testing procedures at the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. Mr. Snyder is also responsible for the testing of production materials within the lab to ensure materials being produced meet the specified standards. Mr. Snyder works closely with the Senior Technician and Supervisors to ensure that materials are being tested properly and in a timely manner for reporting to Caltrans and various local agency personnel.

### EXPERIENCE

Since August 2004, Mr. Snyder has been employed by Teichert Aggregates' Quality Assurance Department. Mr. Snyder has performed various Quality Assurance duties involving aggregates, soils, and asphalt testing after receiving training through Teichert's In House Training Program. Mr. Snyder has performed work for various Caltrans and local agencies public works jobs as a sampler and tester of HMA and aggregate materials.

### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)  
ACI Concrete Field Technician Level 1  
Asphalt Institute Certification HMA Mix Design Class

#### Current Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index

- by Use of Sodium Sulfate
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyrotory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

### **Training**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

### **EDUCATION**

Cordova High school 2003  
 American River College 2004-2005  
 Sacramento, CA



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**BRANDON SNYDER**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-<math>\mu</math>m, Wash</u>	<u>T 269 % Air Voids</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>
<u>T 30 Mechanical Analysis of Ext Agg.</u>	<u>T 283 Moisture-Induced Damage</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>T 96 LA Rattler</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 166 Bulk SpG &amp; Compacted Saturated</u>	<u>T324 Hamburg Wheel-Track Testing</u>
<u>T 176 Sand Equivalent</u>	<u>T 329 Moisture Content of HMA, Oven Dry</u>
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 210 Aggregate Durability Index</u>	
<u>T 248 Reducing Field Samples</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 255 Moisture Content by Oven</u>	<u>D 7741 Viscosity</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107

*Jackie Guat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**BRANDON SNYDER**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Taylor Theis

**Position:** QA Technician I

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mrs. Theis is currently responsible for various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. On a regular basis Mrs. Theis monitors the production of aggregate and asphalt materials using test procedures such as gradation, sand equivalent, durability index, cleanness value, moisture content of aggregate and asphalt, as well as oil content. She is also responsible for coordinating with outside agencies such as City, County, and State Inspectors to sample and split material for Quality Assurance Testing

### QUALIFICATIONS/EXPERIENCE:

Mrs. Theis has been employed by Teichert Aggregates' Quality Assurance Department beginning in 2015. She has received extensive training through an in house training program. She has experience at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 304 HMA Preparation for Testing
- CTM 309 Rice Spgr. and Density of HMA
- CTM 382 Percent Asphalt
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 329 Moisture Content of HMA, Oven Dry

**TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value  
AC Content by Ignition and Nuclear Methods

**EDUCATION:**

Christian Brothers High School, 2010  
High School Diploma

San Diego Mesa College  
2010 – 2011

Folsom Lake Community College  
2011 - 2013

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TAYLOR THEIS  
TEICHERT**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 304 Uncompacted Void Content, Fine
T 84 Bulk SpG (SSD) of Fine Aggr.	T 308 Binder Content, Ignition, Method A
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 329 Moisture Content of HMA, Oven Dry
T 96 LA Rattler	T 335 Fractures in Coarse Aggregate.
T 166 Bulk SpG & Compacted Saturated	D 4791 Flat & Elongated Particles
T 176 Sand Equivalent	
T 209 Theoretical Max. SpG (Method A)	
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Jackie Treat *Jackie Treat*

**Date Issued:** 05/11/16 **Expires** 05/17 **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TAYLOR THEIS**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
Expiration Date                      Test Method

		CTM 105 – CALCULATIONS
		<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
05/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
05/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
05/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
		<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
05/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
05/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
05/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
		<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
05/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
		<input type="checkbox"/> CTM 366 – STABILOMETER
		<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
		<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
		<input type="checkbox"/> CTM -204,206
		<input type="checkbox"/> CTM -207,211
		<input type="checkbox"/> CTM -212,213,214,
		<input type="checkbox"/> CTM -234,235,371
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

KEVIN ESPINOZA  
District 03 Materials Engineer

*Jackie Treat*

Jackie Treat      Certified Independent Assurance (IA) #107

Date Issued 05/11/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

<b>Expiration date:</b>	<u>3/20/2017</u>
<b>Inspected by:</b>	<u>Jackie Treat</u>
<b>IA No.:</b>	<u>#107</u>
<b>Phone:</b>	<u>530-741-4131</u>
<b>File: Materials Category</b>	<b>500</b>

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>				
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>				
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u>	<b>Zip:</b>	<u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>		
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>		

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the  
 the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods  
 indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate  
 of Proficiency Form TL-0111 prior to performing any sampling or testing.

CTM 105, 125, 201, 202, 204, 205, 206, 207,208, 211, 212,214,  
217, 226, 227, 229, 234, 235,301, 304, 308, 309, 366,367, 370, 371  
375,379, 382, 384

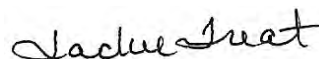
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

**Expiration date:** 3/20/2017  
**Inspected by:** Jackie Treat  
**IA No.:** #107  
**Phone:** 530-741-4131  
**File: Materials Category 500**

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>		
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>		
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u> <b>Zip:</b> <u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate of Proficiency Form TL-0111 prior to performing any sampling or testing.

AASHTO R18,R30,R35, R47 ,R58, T2, T11 T19,T21,T27, T30, T37,T39, T84, T85, T90,T96, T104, T112,T166, T167,  
T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T308, T309, T312, 324,T329,T331,  
T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791

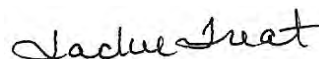
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector





## Teichert Quality Assurance

**Sacramento, California**

[Show This Entry Only](#)

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

Fax:

[jblumer@teichert.com](mailto:jblumer@teichert.com)

<http://www.teichert.com>

**16-7497** : Accreditation has been suspended for Asphalt Mixture method(s) T30, D5444

**Quality Management System** - accredited since 2/1/1997

R18, C1077 (Aggregate), C1077 (Concrete), D3666 (Aggregate), D3666 (Asphalt Mixture)

**Asphalt Mixture** - accredited since 2/21/2013

R47, R68, T166, T167, T209, T245, T246, T247, T269, T275, T283, T305, T308, T312, T324, T329, D1074, D1075, D1188, D1560 (Stability), D1561, D2041, D2726, D2950, D3203, D4867, D6307, D6390, D6925, D6926, D6927, D6931

**Soil** - accredited since 2/21/2013

R58, T88, T89, T90, T99, T100, T146, T176, T180, T190, T265, D421, D422, D698, D854, D1140, D1557, D2216, D2419, D2844, D4318

**Aggregate** - accredited since 2/21/2013

T2, T11, T19, T21, T27, T37, T84, T85, T96, T104, T112, T176, T210, T248, T255, T304, T335, C29, C40, C88, C117, C127, C128, C131, C136, C142, C535, C566, C702, C1252, D75, D546, D2419, D3744, D4791, D5821

**Concrete** - accredited since 2/1/1998

M201, R39, R60, T22, T23, T97, T119, T121, T152, T196, T309, C31, C39, C78, C138, C143, C172, C173, C192, C231, C511, C1064, C1231 (7000 psi and below)

Please note that our accreditations do not include an expiration date. An accreditation only expires when the laboratory fails to comply with our accreditation requirements.

\* This information is only valid as of 7/11/2016. Please visit <http://www.amrl.net> for current accreditation status.



Submittal Cover Sheet  
 1016 North Market Blvd. Suite 20  
 Sacramento, CA 95834  
 916-372-8910 Fax 916-372-8913

M&H S# 067

Submitted To: Carl Sloan  
 Address: 549 Main Street  
 Placerville, CA 95667  
 Attention: Carl Sloan  
 Phone: 916-218-8432

Project Title: Blairs Lane Bridge Replacement  
 Contract No.: 40604 M&H Job # 3926  
 Location: Placerville, CA  
 1st \_\_\_ 2nd \_\_\_ 3rd \_\_\_ other \_\_\_  
 Sub/Vender: Teichert Materials  
 Contact: Don Bates  
 Telephone: 916-825-5070 Sub/Ven Subm'l # 4

ACTION TAKEN						M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved						Subcontractor to Contractor								
AAN- Approved as Noted						Contractor to Owner	12/09/16			X				
RR- Revise & Resubmit						Owner to Consultant								
R- Rejected						Consultant to Owner								
AR- Acknowledge Receipt						Owner to Contractor								
RWR- Return W/o Review						Contractor to Subcontractor								
A	AAN	RR	R	AR	Specification No.		Description							
					Caltrans Section 39		1/2" 64-10 Hot Mix Asphalt with Evotherm M1 Additive							

We verify that the material transmitted herein is in compliance with the Contract Specifications:

With no Exceptions
  Except for the following deviations

Comments: \_\_\_\_\_

*Arnie Garcia*

McGuire and Hester

Review Comments: \_\_\_\_\_



**A. TEICHERT & SON, INC.**

*Established 1887*

December 8, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Hugo Gutierrez

Re: Blairs Lane

Dear Hugo,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement with Evotherm M1 for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP and Evotherm M1 complies with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 3/2/2016  
 Plant: Perkins GenCor  
 Agg Source: S.M.A.R.A. # 91-34-0037  
 Asphalt: PG64-10

Type: 1/2" Max. Med. Type A w/15% RAP  
 w/ 0.3% Evotherm M1 Warm Mix  
 Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin			Dust	Sand	RAP
		Size	1/2"	3/8"			
% Used		100	15	18	41	11	15
50.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
37.5mm	<b>100</b>	<b>100</b>	100	100	100	100	100
25.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
19.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100
12.5mm	<b>90 - 100</b>	<b>96</b>	71	100	100	100	100
9.5mm	<b>78 - 90</b>	<b>84</b>	19	78	100	100	99
4.75mm	<b>53 - 67</b>	<b>60</b>	3	3	90	100	74
2.36mm	<b>35 - 45</b>	<b>40</b>		1	55	88	52
1.18mm	-	<b>28</b>			35	72	40
600µm	<b>16 - 24</b>	<b>20</b>			25	46	31
300µm	-	<b>14</b>			21	17	22
150µm	-	<b>9</b>			15	4	15
75µm	<b>3.5 - 7.5</b>	<b>5.5</b>			9.5	0.9	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	<b>5.5</b> *	N/A
AIR VOIDS %	C.T.M.367	<b>4.0</b>	4.0%
UNIT WEIGHT Kg M³	C.T.M.308-A	<b>2.441</b>	N/A
RICE UNIT WEIGHT Kg M³	C.T.M. 309	<b>2.543</b>	N/A
STABILOMETER VALUE	C.T.M.366	<b>38</b>	37 min
Dust Proportion	LP-4	<b>1.2</b>	0.6 - 1.2
VMA	LP-2	<b>14.2</b>	14.0 min
VFA	LP-3	<b>73</b>	65 - 75
FAA	AASHTO T304	<b>46</b>	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

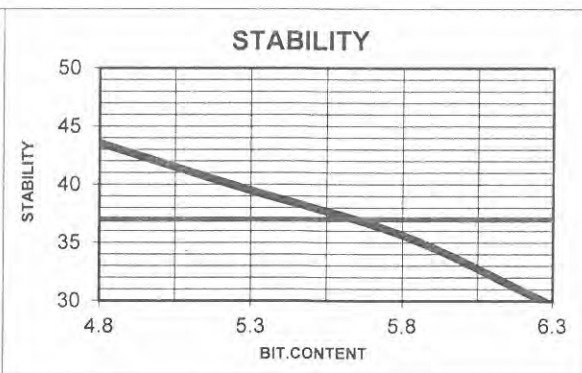
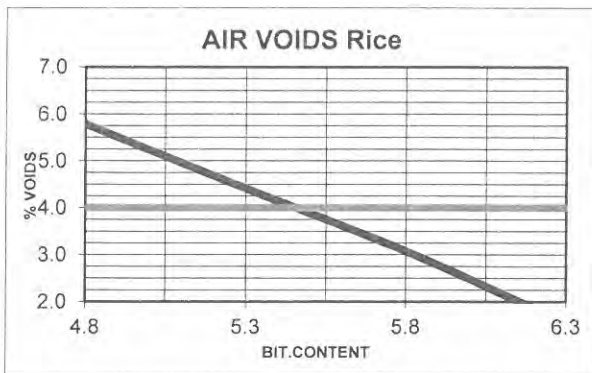
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
K Factor's CTM 303	N/A	N/A	1.7 Max
Specific Gravity CTM 206/208	2.728	2.673	N/A
COMBINED SP.GR.=	2.725		

**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.0	63.8	63.5	63.5	64.0	63.0	63.2
HEIGHT IN.	2.52	2.51	2.50	2.50	2.52	2.48	2.49
500							
1000							
2000							
3000							
4000							
5000	36	41	48	59	43	45	42
6000							
URNS DIS.	2.91	2.98	2.94	3.05	3.00	2.98	3.12
STABILITY	<b>44</b>	<b>39</b>	<b>36</b>	<b>30</b>	<b>38</b>	<b>37</b>	<b>38</b>

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1241.7	1250.2	1258.6	1262.9	1252.8	1255.6	1256.0
WAX AIR	1262.0	1267.5	1272.5	1277.6	1271.3	1272.8	1274.4
WAX H2O	726.4	735.4	744.2	751.0	737.1	740.8	740.5
CTM 308 SP.GR.	2.420	2.438	2.454	2.475	2.439	2.448	2.446
CTM 309 MAX SPGR	2.569	2.550	2.532	2.514	2.543	2.543	2.543
CTM 367 AIR VOIDS%	5.8	4.4	3.1	1.6	4.1	3.7	3.8
UNIT WT. FLUSHING	151.0	152.1	153.1	154.4	152.2	152.8	152.6



STEP				
4	Max Asphalt Content with 4 or more % Voids		5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8
1	DESIGN SET	4.8	5.3	5.8 6.3
* OPTIMUM BITUMEN CONTENT=			5.5	
RECOMMENDED RANGE=		5.2		5.5



## Section 1. Identification

GHS product identifier : EVOTHERM® M1  
Chemical name : Fatty amine derivatives  
Product type : Liquid

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Asphalt additive

Material uses : Asphalt additive

Manufacturer : MeadWestvaco Corporation  
Specialty Chemicals Division  
5255 Virginia Avenue  
North Charleston, South Carolina USA 29405-5615  
msds@mwv.com  
  
Telephone no.: +1 843 740 2236, +1 800 458 4034  
Hours of operation: 0800 - 1700 EST

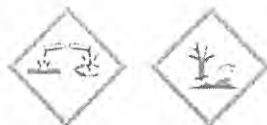
Emergency telephone number (with hours of operation) : +1 703 527 3887 (USA)  
4001-204937 (in China)  
CHEMTREC International

## Section 2. Hazards identification

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC TOXICITY (ACUTE) - Category 1  
AQUATIC TOXICITY (CHRONIC) - Category 1

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Causes serious eye damage.  
Causes skin irritation.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Recommended: Safety glasses with side shields, splash goggles, or face shield. Avoid release to the environment. Wash hands thoroughly after handling.

Response : Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Not applicable.

## Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance  
Chemical name : Fatty amine derivatives  
Other means of identification : Not available.

### CAS number/other identifiers

CAS number : Not available.  
EC number : Not available.

Ingredient name	%	CAS number
Fatty amine derivatives	100	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First-aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes skin irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)



## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use any extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Dispose of according to all federal, state and local applicable regulations.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 5 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: Safety glasses with side shields, splash goggles, or face shield.

### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat, apron or coveralls
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Amber, [Dark]
- Odour** : Amine-like.
- Odour threshold** : Not available.
- pH** : 10 to 12 [Conc. (% w/w): 15%]
- Melting point** : <25°C (<77°F)
- Boiling point** : >200°C (>392°F)
- Flash point** : Closed cup: >204.4°C (>399.9°F) [Pensky-Martens ]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : <1.0 x 10<sup>-12</sup> mmHg @25 °C
- Vapour density** : Not available.
- Relative density** : 0.97 [Water = 1]
- Solubility** : Partially soluble in the following materials: cold water and hot water.
- Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.
- Other** : Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, metals and acids. DO NOT MIX WITH NITRITES. MAY FORM SUSPECTED CANCER CAUSING NITROSAMINES.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

## Section 11. Toxicological information

### Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact : Causes skin irritation.
- Ingestion : May cause burns to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation : No specific data.
- Skin contact : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

#### Long term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

- General : No known significant effects or critical hazards.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : No known significant effects or critical hazards.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours 96 hours

### Persistence/degradability

Not available

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % - 28 days	-	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty amine derivatives	-	-	Not readily

### Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition  
coefficient (K<sub>oc</sub>) : 5.8

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.


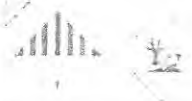


The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL

## Section 13. Disposal considerations

PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	UN	IMDG	IATA	DOT Classification
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Special provisions</u> 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Emergency schedules (EmS)</u> F-A, S-F  <u>Special provisions</u> 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Passenger and Cargo Aircraft</u> Quantity limitation: 450 L Packaging instructions: 964 <u>Cargo Aircraft Only</u> Quantity limitation: 450 L Packaging instructions: 964	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.  <u>Limited quantity</u> Yes.

## Section 14. Transport information

			<u>Limited Quantities</u> <u>- Passenger</u> <u>Aircraft</u> Quantity limitation: 30 kg Packaging instructions: Y954	<u>Special provisions</u> 8, 146, 173, 335, 183, T4, TP1, TP29
			<u>Special provisions</u> A97, A158	

## Section 15. Regulatory information

### China

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

China inventory (IECSC) : This material is listed or exempted.

### List of Goods banned for Importing

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Japan

#### Japan Control Law

Explosives Control Law : Not applicable.

High Pressure Gas Control Law : Not applicable.

Law

Fire Service Law : Class 4; Type 4 petroleum Designated quantity : Not available.

Fire Service Law : Not available. Designated quantity : Not available

Substance to report : Not applicable. Designated quantity : Not available.

Fire Service Law - Obstructive materials : Not listed

Characteristics : Not available.

Danger class : Not available.

#### Poisonous and Deleterious Substances

Use of specified chemical substances : Not available.

ISHL : Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation : Not applicable.



## Section 15. Regulatory information

Occupational diseases	: Not available.
Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster	: Marine pollutant: P
Notification Regulating Transportation of Dangerous Materials by Sea	: Not available.
Civil Aeronautics Law	: Not available.
Pollutant Release and Transfer Registers (PRTR)	: Not listed
Road law	: Not applicable.
JSOH Carcinogen	: Not listed
ISHL Prevention of Tetraalkyl Lead Poisoning	: Not listed
ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
ISHL Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Chemicals requiring notification	: Not listed
ISHL Dangerous Substances	: Not listed
List of Specially Controlled Industrial Waste	: Not listed

### Chemical Substances Control Law (CSCL)

Not available.

Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory	: This material is listed or exempted.
Other regulations	: Not available.
Safety, health and environmental regulations specific for the product	: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### South Korea

#### A. Regulation according to ISHA

ISHA Article 37	: This material is not listed.
ISHA Article 38	: This material is not listed.

#### B. Regulation according to TCCA

TCCA Toxic chemicals	: Not applicable
TCCA Observational chemicals	: This material is not listed.

## Section 15. Regulatory information

- TCCA Article 32 (Banned) : This material is not listed.
- TCCA Article 32 (Restricted) : This material is not listed.
- TCCA Article 17 (TRI) : This material is not listed.
- Korea inventory : This material is listed or exempted.
- C. Dangerous Materials Safety Management Act : Not available.
- D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- E. Regulation according to other foreign laws
- Europe inventory : This material is listed or exempted.
- United States inventory (TSCA 8b) : This material is listed or exempted.
- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).
- International lists : Japan inventory: This material is listed or exempted.  
Korea inventory: This material is listed or exempted.  
Europe inventory: This material is listed or exempted.  
United States inventory (TSCA 8b): This material is listed or exempted.  
Australia inventory (AICS): This material is listed or exempted.  
China inventory (IECSC): This material is listed or exempted.  
Malaysia Inventory (EHS Register): Not determined.  
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.  
Philippines inventory (PICCS): This material is listed or exempted.  
Taiwan inventory (CSNN): This material is listed or exempted.  
Canada inventory: This material is listed or exempted.

### Brazil

- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

### History

- Date of issue/Date of revision : 10/18/2013.
- Date of previous issue : 10/01/2013.
- Version : 5
- Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods

## Section 16. Other information

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

### References

Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





**A. TEICHERT & SON, INC.**

*Established 1887*

July 27, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Arnie Garcia

Re: Blairs Lane

Dear Arnie,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP comply with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor



10090 Waterman Rd.  
Elk Grove, CA 95624  
Phone: (916) 685-9253

John Schmidt  
Teichert Aggregates  
3500 American River Dr.  
Sacramento Ca. 95824

Dear John,

In regards to your question about Paramount Petroleum's PG 64-10, I would like to assure you that Paramount's PG 64-10 will meet all Caltrans specifications for PG 64-16. Paramount is currently on Caltrans list of approved suppliers and also a member of their COC program which requires us to submit to them numerous PG grade samples to their lab for specification compliance each week.

If you have any further questions please don't hesitate to call.

Thank You,  
Jack

Jack Dougherty  
Divisional Manager  
Asphalt R&D and Field Engineering Support  
Paramount Petroleum / Alon USA  
10090 Waterman Road  
Elk Grove, Ca. 95624  
Phone: (916) 685-9253  
Cell: (916) 826-3243  
Fax: (916) 685-8701  
[jdougherty@ppcla.com](mailto:jdougherty@ppcla.com)

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins Batch Plant  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin	3	2	1	BHD	RAP
		Size					
% Used		100	11	26.5	47	0.5	15
2"	100	100	100	100	100	100	100
1 1/2"	100	100	100	100	100	100	100
1"	100	100	100	100	100	100	100
3/4"	100	100	100	100	100	100	100
1/2"	90 - 100	96	62	100	100	100	100
3/8"	78 - 90	84	3	82	100	100	99
#4	54 - 68	61	1	15	96	100	74
#8	37 - 47	42		1	70	100	52
#16	-	28			46	100	40
#30	17 - 25	21			33	100	31
#50	-	14			22	99	22
#100	-	9			14	92	15
#200	3.7 - 7.7	5.7			8.0	76.0	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451 152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554 159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	N/A
REMARKS: * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

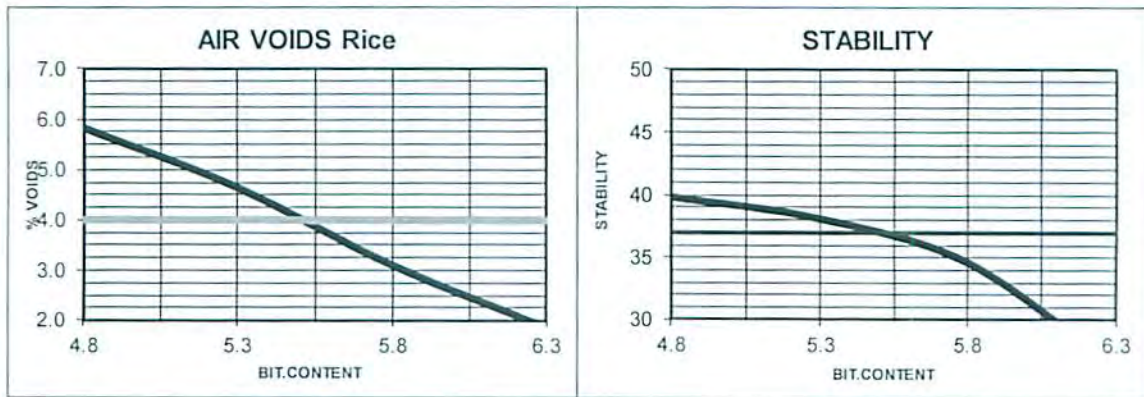
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
Flat & Elongated (3:1) ASTM D 4791	5.7		
(5:1)	3.2		
Specific Gravity CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0		

1/2" Max. Medium "A" w/RAP (Batch Plant)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.5	64.3	64.3	64.0	63.5	63.8	62.7
HEIGHT IN.	2.54	2.53	2.53	2.52	2.50	2.51	2.47
500	10	10	12	13			
1000	14	14	20	20			
2000	21	22	28	30			
3000	28	30	36	42			
4000	35	39	44	57			
5000	41	46	53	75	44	43	45
6000	49	58	65	93			
URNS DIS.	2.94	2.78	2.75	2.71	3.12	2.99	2.95
STABILITY	40	38	35	26	37	38	37

AIR VOIDS DETERMINATION ( C.T.M. 367)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1245.8	1254.5	1257.0	1266.5	1256.0	1254.3	1252.9
WAX AIR	1255.1	1264.2	1266.7	1275.8	1268.8	1270.1	1269.6
WAX H2O	730.7	738.5	744.6	753.3	741.1	740.9	739.8
CTM 308 SP.GR.	2.423	2.436	2.458	2.473	2.446	2.452	2.451
CTM 309 MAX SPGR	2.574	2.555	2.537	2.519	2.554	2.554	2.554
CTM 367 AIR VOIDS%	5.8	4.6	3.1	1.8	4.2	4.0	4.0
UNIT WT. FLUSHING	151.2	152.0	153.4	154.3	152.6	153.0	152.9



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	6.3
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	



# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins (Drum)  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium Type "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
1 1/2"	100	100	100	100	100	100	100	
1"	100	100	100	100	100	100	100	
3/4"	100	100	100	100	100	100	100	
1/2"	90 - 100	96	71	100	100	100	100	
3/8"	78 - 90	84	19	78	100	100	99	
#4	54 - 68	61	3	3	86	100	74	
#8	37 - 47	42		1	55	90	52	
#16	-	30			35	75	40	
#30	17 - 25	21			25	50	31	
#50	-	14			21	17	22	
#100	-	9			15	4	15	
#200	3.7 - 7.7	5.7			9.2	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451 152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554 159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	70 min
REMARKS:	* Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.		

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

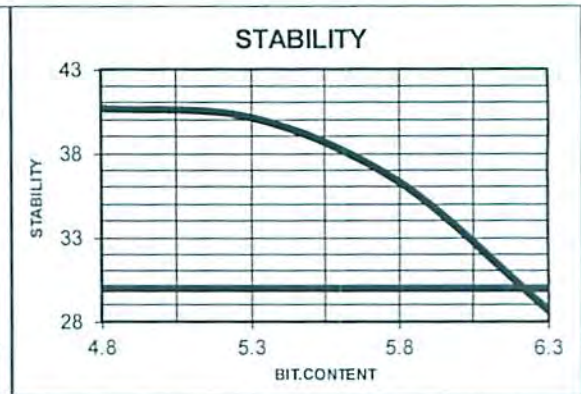
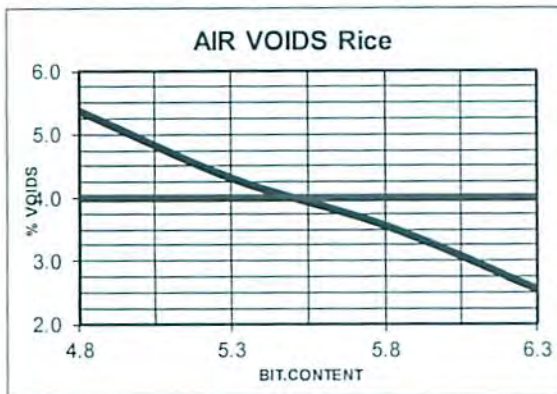
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
K Factor's CTM 303	N/A	N/A	1.7 Max
Flat & Elong. (3:1) ASTM D4791	5.7		
Flat & Elong. (5:1) ASTM D4791	3.2		
Specific Gravity CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0		

1/2" Max. Medium Type "A", Perkins Drum Plant  
**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	63.5	63.2	62.7	62.5	63.0	63.8	63.8
HEIGHT IN.	2.50	2.49	2.47	2.46	2.48	2.51	2.51
500	10	9	9	10			
1000	13	13	14	14			
2000	18	20	22	23			
3000	23	25	30	31			
4000	30	32	37	39			
5000	37	38	48	57	43	40	46
6000	45	52	60	61			
URNS DIS.	3.18	3.16	2.86	3.33	3.01	3.15	2.97
STABILITY	41	40	36	29	38	39	37

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1215.4	1218.8	1223.9	1233.3	1221	1223.1	1220.8
WAX AIR	1224.4	1230.5	1234.8	1246.4	1232.5	1235.6	1231.1
WAX H2O	714.5	718.2	721.7	728.8	722.5	720.2	719.5
CTM 308 SP.GR.	2.431	2.441	2.443	2.452	2.456	2.439	2.441
CTM 309 MAX SPGR	2.570	2.551	2.533	2.516	159.120	159.120	159.120
CTM 367 AIR VOIDS%	5.4	4.3	3.6	2.5	98.5	98.5	98.5
UNIT WT. FLUSHING	151.7	152.3	152.4	153.0	153.2	152.2	152.3



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>15</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, install additional Drainage Inlets per FCD 18, RFI 33 and Engineer's field direction in the Caltrans, Valero and Chevron driveways.

**Extra Work at Force Account:**

DEWR 28-132.0 .....	\$135.36
DEWR 28-133.0 .....	\$5,130.87
DEWR 28-134.0 .....	\$984.70
DEWR 28-135.0 .....	\$439.16
DEWR 28-136.0 .....	\$832.14
DEWR 28-137.0 .....	\$1,502.16
DEWR 28-143.0 .....	\$495.99

**Total CCO #15 Amount: .....\$9,520.38**

The contractor agrees to accept the lump sum of \$9,520.38 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$9,520.38**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Rebecca Neves P.E., City Engineer	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Cleve Morris, City Manager	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE	(PRINT NAME & TITLE)	DATE



Since 1926

January 24, 2017

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: M&H Change Order Request #028 – Driveway Drainage Modifications

Mr. Sloan,

Attached are copies of daily extra work tags which were signed by UNICO Engineering for the additional labor and materials per FCD 018 and RFI #33 for the Blairs Lane Bridge Replacement Project. Please review the attached daily extra work reports, as well as, process and approve for billing as we would like to include the cost in our January 2017 billing. The total cost for change order request #028 is \$9,520.38

Due to the unforeseen additional work, M&H is requesting 3 additional working days to be granted to the contract.

If you have any questions, comments, and/or concerns with the change order request please feel free to call me at 916-607-4558.

Sincerely,

**McGuire & Hester**

*Arnie Garcia*

Arnie Garcia  
Project Engineer



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #18**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 18**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/12/2016**

**DESCRIPTION OF CHANGE:**

Install 2 each square 10-1/4" x 10-1/4" Drainage inlets, or similar, and approximately 40 linear feet of 4" schedule 80 PVC pipe as shown in the attached drawings. Location of the drainage inlets and the pipe will be determined in the field by the engineer.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Time and Material

**REASON FOR CHANGE:**

The current AC conform with the driveway at Valero will result in a low area which will pond water. This drainage system will remove the water and transport it to the drainage inlet.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

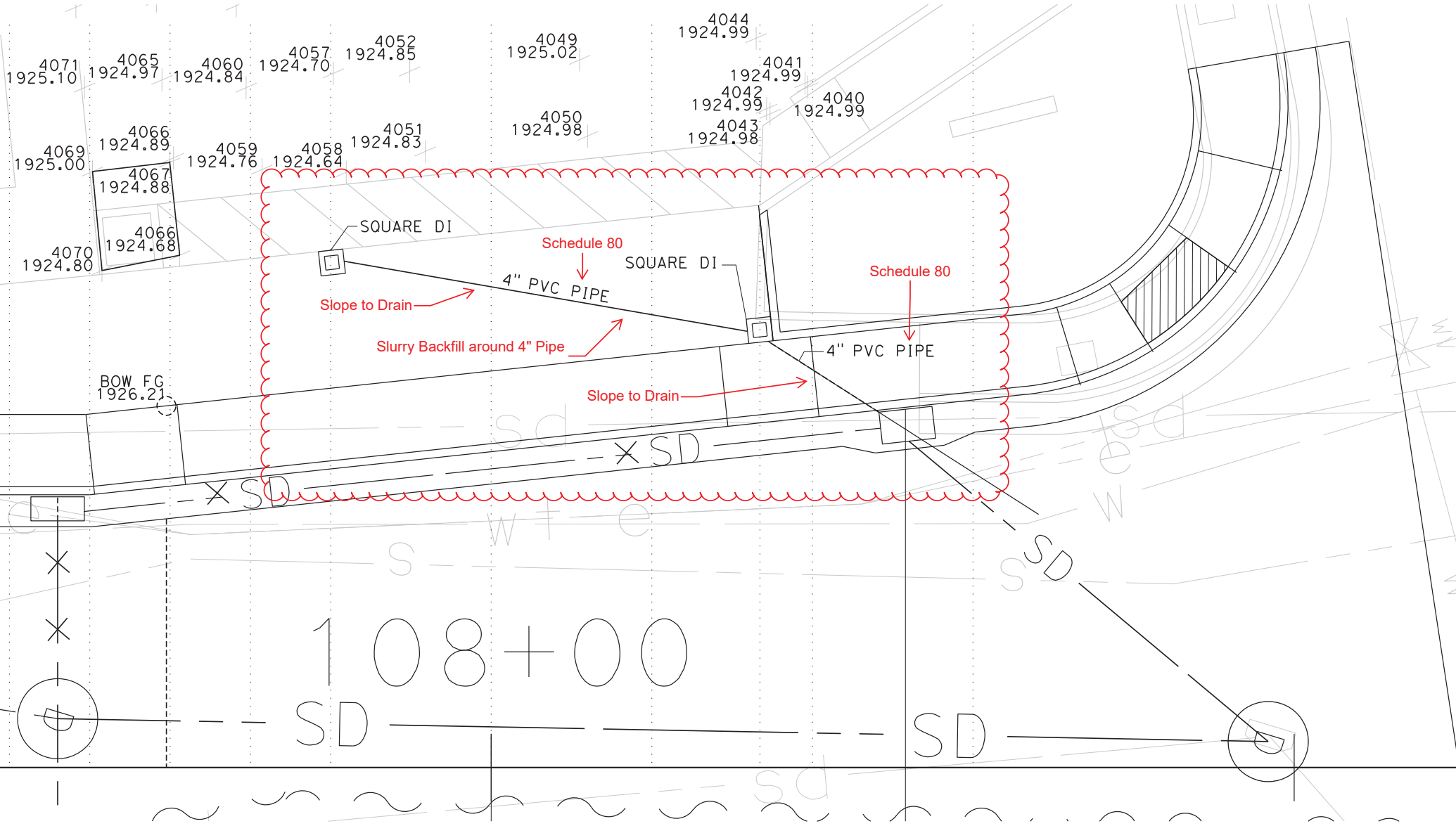
WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

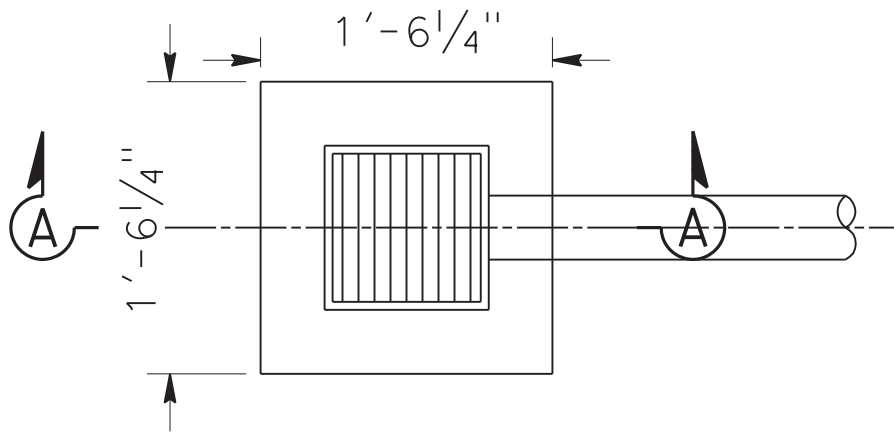
It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

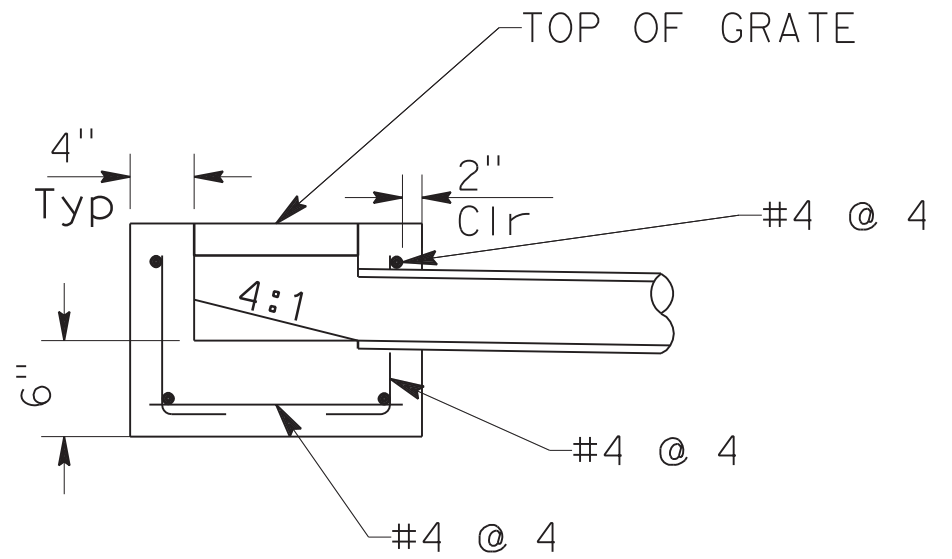
BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer





SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE

 <p>McGuire and Hester 1016 N. Market Blvd Sacramento, CA 95834 Phone: 916-372-8910 Fax: 916-372-8913</p>	<p><b>REQUEST FOR INFORMATION</b></p> <p>Request No.: <b>033</b></p> <p>Title: <b>Caltrans Driveway</b> Requested By: <b>Arnie Garcia</b></p> <p>Date: <b>12/07/2016</b></p>
<p>To: <b>City of Placerville</b> <b>3101 Center Street</b> <b>Placerville, CA 95667</b></p> <p>Attn: <b>Carl Sloan (UNICO Engineering)</b> <b>916-218-8432 <a href="mailto:Carl@unicoengineering.com">Carl@unicoengineering.com</a></b></p>	<p>Project: <b>Blairs Lane Bridge Replacement</b></p> <p>Project No.: <b>M&amp;H #3926</b> <b>Placerville #40604</b></p>
<p>Spec. Section: Page No.:</p>	<p>Drawing No.: Sheet 6 Detail No.:</p>

**Please provide the following information:**

McGuire and Hester during our grading operations identified an issue with the existing conform grades at the Caltrans Driveway. Attached you'll find a plan showing the existing elevations for review.

Please provide direction on The City of Placerville would like McGuire and Hester to proceed with the installation of AC pavement to allow for drainage.

<p>Reply Required by: <b>12/8/2016</b></p>	<p>By: <b>Arnie Garcia</b> Title: <b>Project Engineer</b></p>
--	---

**Response:**

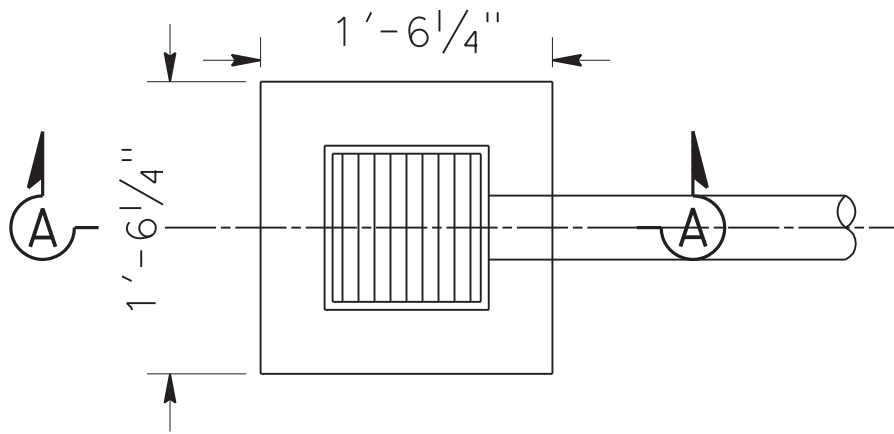
Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

See attached detail for the DI.

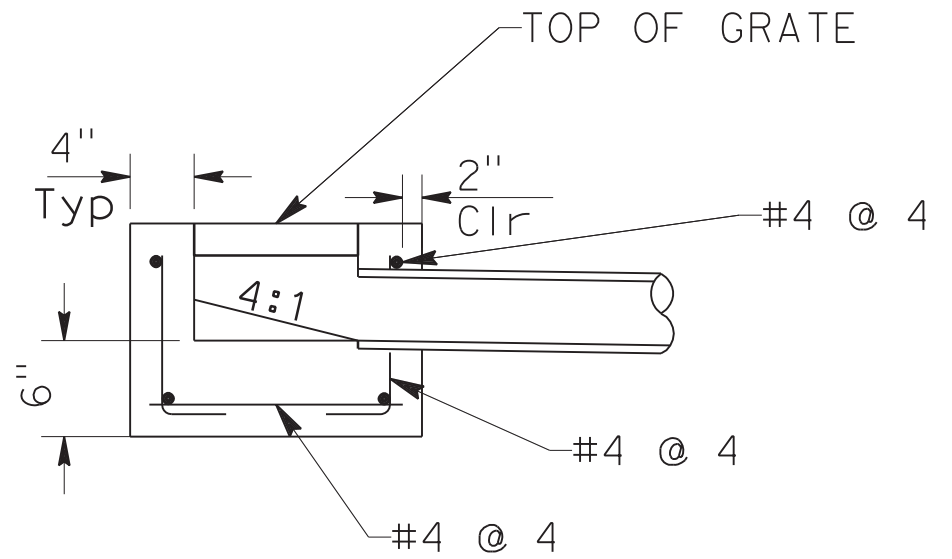
<p>Date:</p>	<p>By:</p>
<p>cc:</p>	<p>Title:</p>








SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Valero Driveway Mod.								Change Order <b>028</b> Billing Number <b>132.0</b> Report Date 12/06/2016 Perform Date 12/06/2016		
<b>Labor Charges</b>								<b>Labor Charges</b>		
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	80.87
L01 4273	R Krug	0.50			61.210			30.61	SC 12.00%	9.70
L02 4948	H Meza	1.00			50.260			50.26	OT Labor	0.00
<b>Equipment Charges</b>								<b>Subtotal Labor</b>		<b>90.57</b>
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-250 Utility Pickup	0.50			22.760			11.38	Other Expenses	0.00
								<i>MU</i> 35.00%	<u>31.70</u>	
								<b>Labor Total</b>	<b>122.27</b>	
								<b>Equipment Charges</b>		
								Subtotal	11.38	
								<i>MU</i> 15.00%	<u>1.71</u>	
								<b>Equipment Total</b>	<b>13.09</b>	
								<b>Material Charges</b>		
								<b>Subcontract Charges</b>		
								<b>Activity Total</b>	<b>135.36</b>	
								<b>Bill Subtotal</b>	<b>135.36</b>	
								<b>Bill Total +</b>	<b>135.36</b>	
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690								Accepted: _____ <i>Customer:</i> _____ <i>Date:</i> _____ Contractor: _____ <i>Date:</i> _____		Page <u>1</u>

**M'GUIRE  
HESTER**

**EXTRA WORK REPORT  
CONSTRUCTION COMPANY**

M&H JOB NO: 3926

EXTRA WORK ORDER NO: 9830028

DATE OF REPORT: 12-6-16

DATE PERFORMED: 12-6-16

TO: CITY OF PLACERVILLE

PROJECT: BLAIRS LAKE BR

DESCRIPTION OF WORK: EXCAVATE - INSTALL 4" DUCTILE IRON  
BACKFILL @ VALERO DE FOR FUTURE TRENCH DRAIN

**SUMMARY OF LABOR AND EQUIPMENT**

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KOUC	0392	F-250 PU	LABOR FOREMAN	.5
4948	HUMBERTO MEZA			LABOR	1


**SUMMARY OF MATERIAL & SPECIALTY FORCES**

MATERIALS FOR FUTURE TRENCH DRAIN TO BE CAREFULLY  
4mm SEPARATE WHEN DRAIN BOX & GRATE  
GETS INSTALLED

Roger Kouc  
McGuire & Hester Representative

John Webb 12/13/16  
Work Authorized by / Date

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans & Valero							Change Order <b>028</b> Billing Number <b>133.0</b> Report Date 12/12/2016 Perform Date 12/12/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	1,722.54
L01 4273	R Krug	6.00			61.210			367.26	SC 12.00%	206.71
L02 7359	C Smith	6.00			75.100			450.60	OT Labor	0.00
L03 1227	JA Day II	6.00			50.260			301.56	Subtotal Labor	1,929.25
L04 6728	E Ramirez	6.00			50.260			301.56	Subsistence	0.00
L05 4948	H Meza	6.00			50.260			301.56	Other Expenses	0.00
<b>Equipment Charges</b>							<b>Equipment Charges</b>			
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	MU 35.00%	<u>675.23</u>
E01 02292	Ford F-250 Utility Pickup	6.00			22.760			136.56	Labor Total	<b>2,604.48</b>
E02 07049	Cat 420E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72	<b>Equipment Charges</b>	
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>							<b>Material Charges</b>			
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	Subtotal	567.28
M01 5119203	12/12/2016	Ferguson Enterprises / Material Buy			1.000 LS	387.15000		387.15	MU 15.00%	<u>85.09</u>
M02 5122837	12/12/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	23.12000		23.12	Equipment Total	<b>652.37</b>
M03 90085	12/12/2016	Syar Concrete LLC / Slurry Buy			1.000 LS	434.17000		434.17	<b>Material Charges</b>	
M04 0000265561	12/12/2016	Home Depot / Material Buy - Concrete Mix			1.000 LS	29.81000		29.81	Subtotal	1,629.58
M05 0000198929	12/12/2016	Home Depot / Material Buy - Fittings			1.000 LS	10.12000		10.12	MU 15.00%	<u>244.44</u>
M06 17613035112	12/12/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	745.21000		745.21	Material Total	<b>1,874.02</b>
							<b>Subcontract Charges</b>			
									Activity Total	<b>5,130.87</b>
									Bill Subtotal	<b>5,130.87</b>
									Bill Total +	<b>5,130.87</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____		Page <u> 1 </u>	
							Contractor: _____ Date: _____			



# EXTRA WORK REPORT

## CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830028  
 DATE OF REPORT: 12-12-16  
 DATE PERFORMED: 12-12-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAZER LANE B.R.  
 DESCRIPTION OF WORK: INSTALL 3 ORANGE INLETS AND RUN  
 PIPE CONNECTING TO NEW DT'S 2 @ VALERO  
 AND 1 @ CAL TRANS

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KRUG	02292	F-250 PU	LABOR Foreman	6
7359	CURTIS SMITH			Operator	6
1227	JESSE DAY			LABOR	6
6728	ERIC RAMONER			LABOR	6
4948	HUMBERTO MEZA			LABOR	6
		07049	420 E BACKHOE		8

### SUMMARY OF MATERIAL & SPECIALTY FORCES

- 180 LF. SCH. 80 4" PIPE
  - 2 yds 6sack SAND SWEEP
  - 10 BAGS OF CONCRETE MIX
  - 2 BAGS GROUT
  - 45° & 22° FITTINGS (1 EACH)
  - 3 20" x 20" CAL TRANS TRAFFIC RATED INLETS
- LOWEST REPAIR MATERIAL

Roger Krug  
 McGuire & Hester Representative

John Hester 12/13/16  
 Work Authorized by / Date



FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5119203	611331	1

Please refer to Invoice Number when making payment and remit to: TOTAL DUE ---> 387.15

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIRS LN	12/13/2016	151996
Ordered	Shipped	Item Number	Description		Unit Price	UM	Amount
160	160	P40BEPP20	4X20 FT PVC S40 BE PIPE		224.045	C	358.47
<b>Invoice Sub-Total</b>							<b>358.47</b>
<b>Tax</b>							<b>28.68</b>
<b>Total Amt</b>							<b>387.15</b>

**TOTAL DUE ---> 387.15**

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.  
 WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

B-133

FEI PLACERVILLE #610  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

ACCEPT B/O = Y  
SHOWROOM = N  
SOURCE = SOE  
IB FRT = N 0.0  
OB SHP = N 0.0  
12 DEC 2016 11:26

PH: 530-622-3281 FAX: 530-622-2491  
ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

STOCK SALES ORDER

WRITER SALESMAN  
SHIP 679  
TAG PO. NO.

5110203 CUSTOMER NO.	12/12/16 CUSTOMER ALPHA	610 CONTRACT NO.	610 BID NO.	12/09/16 ORDER DATE	ARMTE ORDERED BY	INSTRUCTIONS				OML CONTACT Serena Woods VENDOR						
MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603						SHIP VIA MCI INTL CALL				ROUTE NO. RUN NO. DEPART						
CUST PH: 510-622-7676						SHIP TO COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003				VENDOR PO. NO.						
CUSTOMER P.O. NO. 3026			JOB NAME RIGATES LM		ATTN:		SHIP WT.		SHIP DATE		DELIVERED BY		PACKED BY		CHECKED BY	

LINE	ORDER QTY	SHIP QTY	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	PO. NO.	aisle loc
1	150	150	0	PA0REPP20	4X70 FT PVC 640 RE PIPE	224.045	C		210.5 lb	YM700
<p>NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.</p> <p>SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.</p>										

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.	SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE
SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.						

CUSTOMER'S SIGNATURE: *[Signature]* DATE: \_\_\_\_\_

TERMS:

CUSTOMER COPY





FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5122837	611331	1

Please refer to Invoice Number when making payment and remit to:

**TOTAL DUE ---> 23.12**

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**

MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**

COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	3926	12/13/2016	151996
Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount	
1	1	P40S4P	4 PVC S40 SXS 45 ELL	15.755	EA	15.76	
1	1	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	5.65	
<b>Invoice Sub-Total</b>						<b>21.41</b>	
<b>Tax</b>						<b>1.71</b>	
<b>Total Amt</b>						<b>23.12</b>	

**TOTAL DUE ---> 23.12**

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

FEI PLACERVILLE #610  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

B-133

ACCEPT B/O = Y  
 SHOWROOM = N  
 SOURCE = SOE  
 IB FRT = N 0.0  
 OB SHP = N 0.0  
 13 DEC 2016 10:43:1

PH: 530-622-3281 FAX: 530-622-2491  
 ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

STOCK SALES ORDER

5122837 12/13/16 610 610

CUSTOMER NO.	CUSTOMER ALPHA	CONTRACT NO.	BID NO.	ORDER DATE	ORDERED BY
511331	MCGUIREAN			12/13/16	RODGER

INSTRUCTIONS

WRITER	SALESMAN
SM	679

**SOLD TO**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**SHIP TO**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

SHIP VIA  
 CPU COUNTER PCK-UP

TAG PO. NO.

OML CONTACT  
 Serena Woods  
 VENDOR

VENDOR PO. NO.

ROUTE NO.	RUN NO.	DEPART
-----------	---------	--------

PCS	BAGS	BOXES	CRATES	LENGTHS	BUNDLES	ROUTE DESC.
-----	------	-------	--------	---------	---------	-------------

CUSTOMER P.O. NO. 3926  
 JOB NAME 3926  
 ATTN:

SHIP WT.	SHIP DATE	DELIVERED BY	PACKED BY	CHECKED BY
	12/13/16			

LINE	ORDER QTY	SHIP QTY	PRO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	P.O. NO.	aisle loc
1	1	1	0	P40S4P	4 PVC S40 SXS 45 FI	15.755	EA			X18DF
2	1	1	0	MUI04096A	4 PVC SWR SM HXH 22-1/2 FI	5.650	EA			1.3 lb W03-C2- 0.5 lb XW3.1

\*\*\*\*\*  
 LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.  
 \*\*\*\*\*  
 WATER FLOW RATE NOTICE: Lavatory Faucets with flow rates over 0.5 GPM are not allowed for 'public use' in California.  
 \*\*\*\*\*

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.  
 SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.

SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE

CUSTOMER'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

TERMS:



SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

**RECEIVED**

DEC 15 2016

INVOICE  
 90085

DATE  
 12/12/2016

MCGUIRE AND HESTER

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

=====  
 Customer Code      Project Code      Purchase Order      Job Number      Order  
 MCGUIREHES      4584      P3926-08      3926      50  
 =====

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	cy	95.00	190.00
12/12	41024305	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/12	41024305	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

TOTAL YARDS    TAXABLE AMOUNT    8.000    TAX    NON-TAXABLE  
 2.00                    402.00                    32.17                    0.00

=====  
 DISCOUNT                    TAX ON  
 AMOUNT                    DISCOUNT                    IF PAID BY                    YOU MAY DEDUCT  
 2.00                    0.16                    01/10/2017                    2.16

TOTAL DUE  
 \$434.17

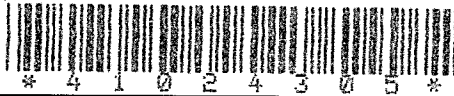
TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!



B-133

**SYAR CONCRETE LLC**  
 P.O. Box 2700  
 Napa, CA 94558  
 Phone # 877-792-7649



DATE 12/12/2016	TICKET # 41024305
P.O. # P3926-08	JOB # 3926
SYAR ORDER # 50	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVERTO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 3527 Durock Rd.
--	---	--

START BATCH/MIX CYCLE 11:35	LEAVE PLANT 11:55	ARRIVE JOB 12:20	START POUR 12:21	FINISH POUR 12:25	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:10	CU. YDS. ORDERED 2	CU. YDS. DELIVERED 2	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 3.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION-SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
2.00	SS060NR9	6 Sack Sand Slurry		yd	
1.00	157015	ENVIRONMENTAL CHARGE		ea	

MINIMUM LOAD CHARGE  
 HWY 50 BROADWAY @ BLAIRS LANE

TRUCK#	DRIVER	PREVIOUS TRUCK
B075	JEFF WINGE	

BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.		WASHOUT USED YES <input type="checkbox"/> NO <input type="checkbox"/>	DRUM COUNTER
SIGNED: _____		WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE	SUB TOTAL TAX <b>TOTAL</b>
CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.		REQUESTOR'S NAME FULL LOAD (GALLONS) [Signature] 3/4 LOAD (GALLONS) 1/2 LOAD (GALLONS) 1/4 LOAD (GALLONS)	GR TOTAL

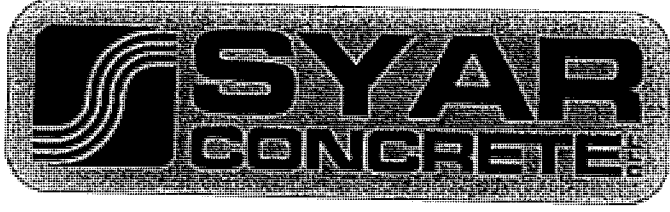
**WEIGHMASTER CERTIFICATE**  
 THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

Batch Data							
Truck	Driver	User	Disp	Ticket Num	Ticket ID	Time	Date
B075	1034	user		41024305	41218	11:35	12/12/16
Load Size	Mix Code	Returned	Qty	Mix Age	Seq	Load ID	
2.00	CYDS SS060NR9				D	24301	
Material	Design Qty	Required	Batched	% Moisture	Actual Mat		
CEMII/V	565.0 lb	1130.0 lb	1130.0 lb				
CONSAND	2544 lb	5321 lb	5300 lb	4.57% M	28 gl		
WATER	60.00 GL	40GL	40GL				
Actual	Nue Batches: 1				Manual 11:35:20		
Load Total:	6430 lb	Design 0.885	Water/Cement 0.885 T	Design 120.0 gl	Actual 27.8 gl	To Add: 92.2 gl	
Slump:	3.00 in	# Water in Truck: 0.0 gl	Adjust Water: 0.0 gl	/ Load	Tric Water:-47.0 gl/ CYD		

320771

No. #: 41024305



B-133

CERTIFICATE OF COMPLIANCE

READY MIX CONCRETE

TO: Mc Guire & Hester

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

MIX ID: CONTRACT NUMBER: Blair Rd. Placerville

CEMENT BRAND: Nevada Cement TERMINAL LOCATION: Sacramento TYPE: II

Table with 3 columns: BRAND, MANUFACTURER, TYPE. Includes a checked box for 'CHECK BOX IF A CHEMICAL ADMIXTURE WAS NOT USED'.

MINERAL ADMIXTURE MANUFACTURER: CLASS: F. Includes a checked box for 'CHECK BOX IF A MINERAL ADMIXTURE WAS NOT USED'.

DELIVERY DATE: 12-12-2016

LIST DELIVERY TAG NUMBERS: 41024305

AUTHORIZED SIGNATURE: [Handwritten Signature]

B-133



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00002 65561 12/12/16 08:55 AM  
CASHIER SARAH

0000-533-829 80# SAKRETE <A>  
80LB SAKRETE CONCRETE MIX  
8@3.45 27.60

SUBTOTAL 27.60  
SALES TAX 2.21  
TOTAL \$29.81

XXXXXXXXXXXX6209 MASTERCARD 29.81  
AUTH CODE 251476/2022473 TA

P.O.#/JOB NAME: 3926



1085 02 65561 12/12/2016 1916

RETURN POLICY DEFINITIONS  
POLICY ID DAYS POLICY EXPIRES ON  
A 1 90 03/12/2017  
THE HOME DEPOT RESERVES THE RIGHT TO  
LIMIT / DENY RETURNS. PLEASE SEE THE  
RETURN POLICY SIGN IN STORES FOR



More saving.  
More doing.<sup>SM</sup>

B-133

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM  
CASHIER SANDRA

820633976127	1" SLIDE RPR <A>	4.13
	1" PVC SLIDE REPAIR COUPLING	
049081137588	1-1/4 CPLING <A>	
	1-1/4" PVC COUPLING SXS	
2@0.73		1.46
049081133160	PVC BUSHING <A>	1.26
	1-1/4" X 1" PVC BUSHING SPGXS	
0000-193-712	PVC40 PE PIPE <A>	2.53
	3/4" X 10' PVC40 PE PIPE	

	SUBTOTAL	9.38
	SALES TAX	0.74
	TOTAL	\$10.12
XXXXXXXXXXXX6209	MASTERCARD	10.12
AUTH CODE 446043/2012228		TA

P.O.#/JOB NAME: 3926



1085 01 98929 12/12/2016 4291

RETURN POLICY DEFINITIONS

POLICY ID	DAYS	POLICY EXPIRES ON
1	90	03/12/2017

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
 McClellan, CA 95652-2027  
 USA  
 Tel: 1-855-284-1127  
 Fax: 916-640-8864  
 www.corix.com

**INVOICE**

**Invoice Number:** 17613035112

**Invoice Date:** 12/14/16

**Page:** 1

**Bill To:** MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603  
 USA

**Ship To:** Corix Water Products (US) Inc.  
 4522 PARKER AVE STE 700  
 MCCLELLAN, CA 95652-2027  
 USA

<b>Cust No.</b> MCGHES	<b>Ship Via</b> CUSTOMER PICK UP	<b>P.O. Date</b> 12/12/16
<b>Terms</b> 2% 10th next month net 30th next month	<b>Ship Date</b> 12/12/16	<b>P.O. Number</b> 3926
<b>Due Date</b> 01/30/17	<b>SalesPerson</b> Dale Rasmussen	<b>Our Order No.</b> 17612036919
<b>PST Exempt No.</b>	<b>Creator</b> JOGONZALEZ	<b>Cust Job Name</b> Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>	<b>Posted By</b> NVERNON	<b>Job No.</b>

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	3	3	130.00	390.00
WWV1271W420	V12 STEEL GRATE HD	EA	3	3	100.00	300.00

\*\*\* If Paid by 01/10/17, discount available = \$13.80 \*\*\*

<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
690.00	0.00

<b>Subtotal:</b>	<b>690.00</b>
Invoice Discount:	0.00
Total Sales Tax:	55.21

**Total:** 745.21

**Please remit payment to:** Corix Water Products (US) Inc.  
 #100, 11020 W. PLANK COURT  
 Wauwatosa, WI 53226  
 USA

Interest is charged at 2% per month on all overdue amounts



## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans 7 Valero							Change Order <b>028</b> Billing Number <b>134.0</b> Report Date 12/13/2016 Perform Date 12/13/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	445.88
L01 4273	R Krug	4.00			61.210			244.84	SC 12.00%	53.50
L02 6728	E Ramirez	4.00			50.260			201.04	OT Labor	0.00
<b>Equipment Charges</b>							<b>Equipment Charges</b>			
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	499.38
E01 02292	Ford F-250 Utility Pickup	4.00			22.760			91.04	Subsistence	0.00
E02 05034	Compressor P185R I-R	8.00			17.330			138.64	Other Expenses	0.00
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>										
Number	Date	Vendor Name and Description			Units	Unit Price	Extended			
M01 0000100339	12/13/2016	Home Depot / Material Buy - Concrete And Grout			1.000 LS	40.34000	40.34			
									<b>Material Charges</b>	
									Subtotal	40.34
									MU 15.00%	<u>6.05</u>
									Material Total	<b>46.39</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>984.70</b>
									Bill Subtotal	<b>984.70</b>
									Bill Total +	<b>984.70</b>
									Page	1



**McGuire and Hester**

Job Contact: Hugo Gutierrez (916) 873-2690

Accepted:

Customer:

Date:

Contractor:

Date:



# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830028  
 DATE OF REPORT: 12-13-16  
 DATE PERFORMED: 12-13-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAIRS LANE BR  
 DESCRIPTION OF WORK: JACK HAMMER HOLE IN DI @ CAL TRANS  
 TO INSTALL 4" STORM DRAIN PIPE / CONCRETE  
 COLLAR AND THEN BACKFILL

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KRUG	02292	F-250 PU	LABOR FOREMAN	4
6728	ERIC RAMIREZ				4
		05034	AIR COMPRESSOR		8

### SUMMARY OF MATERIAL & SPECIALTY FORCES

Regrade Dways NOT included - WORK will be performed at a later date.

2 - BAGS FAST SETTING CONCRETE

2 - BAGS NON SHRINK GROUT

Roger Krug  
 McGuire & Hester Representative

John Wells 12/21/16  
 Work Authorized by / Date

B-134



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 12/13/16 07:30 AM  
CASHIER SANDRA

0000-842-303 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
764661163503 50#GROUT <A>	
50LB NON-SHRINK CONSTRUCTION GROUT	
2@14.70	29.40

SUBTOTAL	37.36
SALES TAX	2.98
TOTAL	\$40.34
XXXXXXXXXXXX6213 MASTERCARD	40.34
AUTH CODE 733631/1012282	TA

NEW LOWER PRICE (NLP)SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926


PRO XTRA SPEND THIS VISIT:	\$37.36
2016 PRO XTRA SPEND 12/12:	\$6,273.35

As of 12/13/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.


This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).



## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans Driveway								Change Order <b>028</b> Billing Number <b>135.0</b> Report Date 12/19/2016 Perform Date 12/19/2016		
<b>Labor Charges</b>								<b>Labor Charges</b>		
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00
L03 1227	JA Day II	1.00			50.260			50.26		
<b>Equipment Charges</b>								<b>Subtotal Labor</b>		<b>208.96</b>
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Other Expenses	0.00
E02 09043	John Deere 210 LJ Skip Loader	1.00			57.010			57.01	<i>MU</i> 35.00%	<u>73.14</u>
E03 15026	CB 224E 47" Double Drum AC 06	1.00			56.810			56.81	<b>Labor Total</b>	<b>282.10</b>
								<b>Subtotal</b>		<b>136.58</b>
								<i>MU</i> 15.00%		<u>20.48</u>
								<b>Equipment Total</b>		<b>157.06</b>
								<b>Material Charges</b>		
								<b>Subcontract Charges</b>		
								<b>Activity Total</b>		<b>439.16</b>
								<b>Bill Subtotal</b>		<b>439.16</b>
								<b>Bill Total +</b>		<b>439.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690								Accepted: _____ <i>Customer:</i> _____ <i>Date:</i> _____		
								Contractor: _____ <i>Date:</i> _____		
								Page <u>1</u>		

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>136.0</b> Report Date 12/20/2016 Perform Date 12/20/2016				
<b>Labor Charges</b>							<b>Labor Charges</b>				
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	273.20	
L01 4273	R Krug	2.00			61.210			122.42	SC 12.00%	32.79	
L02 7560	K Sullivan	1.50			50.260			75.39	OT Labor	0.00	
L03 3844	C Jones	1.50			50.260			75.39			
<b>Equipment Charges</b>									Subtotal Labor	305.99	
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00	
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	Other Expenses	0.00	
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									MU 35.00%	<u>107.09</u>	
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	Labor Total <b>413.08</b>			
M01 5136232	12/20/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	70.47000	70.47	<b>Equipment Charges</b>			
M02 17613035655	12/20/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	248.41000	248.41	Subtotal			45.52
									MU 15.00%	<u>6.83</u>	
									Equipment Total		<b>52.35</b>
									<b>Material Charges</b>		
									Subtotal		318.88
									MU 15.00%	<u>47.83</u>	
									Material Total		<b>366.71</b>
									<b>Subcontract Charges</b>		
									Activity Total		<b>832.14</b>
									Bill Subtotal		<b>832.14</b>
									Bill Total +		<b>832.14</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>		





FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
From: Aaron Imschweiler  
Comments:

Please Contact With Questions:  
530-622-3281

Invoice Number	Customer	Page
5136232	611331	1

Please refer to Invoice Number when making payment and remit to:

TOTAL DUE ---> 70.47

FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Sold To:

MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603

Ship To:

COUNTER PICK UP  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIR'S & BROADWAY	12/20/2016	152362

Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount
1	1	H25515	4 OZ PRO-POXY EPOXY 20	5.990	EA	5.99
1	1	P40SCP	4 PVC S40 SXS COUP	5.583	EA	5.58
1	1	O31020	32 OZ PVC MED CLR CMNT	20.663	EA	20.66
2	2	PSDTC260S	2X60 DUCT TAPE PREM GRD SILV	10.860	EA	21.72
2	2	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	11.30

**Invoice Sub-Total** 65.25  
**Tax** 5.22  
**Total Amt** 70.47

<b>TOTAL DUE ---&gt;</b>	<b>70.47</b>
--------------------------	--------------

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.



FEI PLACERVILLE #610  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

PH: 530-622-3281 FAX: 530-622-2491  
 ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

**STOCK SALES ORDER**

SHOWROOM = N  
 SOURCE = SOE  
 IB FRT = N 0.1  
 OB SHP = N 0.1  
 20 DEC 2016 16:11:4

WRITER SALESMAN  
 AT 679

TAG PO. NO.

OML CONTACT  
 Aaron Tschweiler  
 VENDOR

VENDOR PO. NO.

ROUTE NO. RUN NO. DEPART

ROUTE DESC.

PACKED BY CHECKED BY

5136232 12/20/16 610 610  
 CUSTOMER NO. CUSTOMER ALPHA CONTRACT NO. BID NO. ORDER DATE ORDERED BY

**SOLD TO**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**SHIP TO**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

INSTRUCTIONS

SHIP VIA  
 CPU COUNTER PICK-UP

PCS BAGS BOXES CRATES LENGTHS BUNDLES

CUST PH: 510-632-7676  
 CUSTOMER PO. NO. JOB NAME ATTN:

3926 BLAIR'S & BROADWAY

LINE	ORDER QTY	SHIP QTY	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	P.O. NO.	aisle loc
1	1	1	0	H25515	4 OZ PRO-POXY EPOXY 20	5.990	EA			CTRC
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					0.3 lb
2	1	1	0	P405CP	4 PVC 940 5X5 COUP	5.583	EA			X18D
										1.0 lb
3	1	1	0	031020	32 OZ PVC MED CLR CMNT	20.663	EA			XE10A
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					2.3 lb
4	2	2	0	P50TC260S	2X60 DUCT TAPE PREM GRD STLY	10.850	EA			XE11A
										1.5 lb
5	2	2	0	MW 040984	4 PVC SHR 5W HXH 22-1/2 ELL	5.650	EA			XW3D
										0.5 lb

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.  
 SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.

SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE

CUSTOMER'S SIGNATURE: \_\_\_\_\_

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

TERMS: \_\_\_\_\_ \*CONTINUED\*

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
McClellan, CA 95652-2027  
USA  
Tel: 1-855-284-1127  
Fax: 916-640-8864  
www.corix.com

RECEIVED INVOICE

DEC 27 2016



Invoice Number: 17613035655  
Invoice Date: 12/21/16  
Page: 1

**Bill To:** MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603  
USA

**Ship To:** BLAIRS LANE BRIDGE  
1312 BROADWAY  
PLACERVILLE, CA 95667  
USA

<b>Cust No.</b>	MCGHES	<b>Ship Via</b>	OUR TRUCK	<b>P.O. Date</b>	12/20/16
<b>Terms</b>	2% 10th next month net 30th next month	<b>Ship Date</b>	12/20/16	<b>P.O. Number</b>	3926
<b>Due Date</b>	01/30/17	<b>SalesPerson</b>	Dale Rasmussen	<b>Our Order No.</b>	17612037662
<b>PST Exempt No.</b>		<b>Creator</b>	JOGONZALEZ	<b>Cust Job Name</b>	Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>		<b>Posted By</b>	NVERNON	<b>Job No.</b>	

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	1	1	130.00	130.00
WWV1271W420	V12 STEEL GRATE HD	EA	1	1	100.00	100.00

\*\*\* If Paid by 01/10/17, discount available = \$4.60 \*\*\*


<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
230.00	0.00

<b>Subtotal:</b>	<b>230.00</b>
Invoice Discount:	0.00
Total Sales Tax:	18.41
<b>Total:</b>	<b>248.41</b>

**Please remit payment to:** *Corix Water Products (US) Inc.*  
*#100, 11020 W. PLANK COURT*  
*Wauwatosa, WI 53226*  
*USA*

Interest is charged at 2% per month on all overdue amounts

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>137.0</b> Report Date 12/21/2016 Perform Date 12/21/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	563.81
L01 4273	R Krug	1.00	1.00		61.210	80.710		141.92	SC 12.00%	67.67
L02 7560	K Sullivan	5.00			50.260			251.30	OT Labor	80.71
L03 3844	C Jones	5.00			50.260			251.30	SC 12.00%	9.69
									Subtotal Labor	721.88
<b>Equipment Charges</b>									Subsistence	0.00
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Other Expenses	0.00
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	MU 35.00%	<u>252.66</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									Labor Total	<b>974.54</b>
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	<b>Equipment Charges</b>	
M01 90281	12/21/2016	Syar Concrete LLC / Material Buy - Slurry			1.000 LS	382.87000		382.87	Subtotal	45.52
M02 0005625058	12/21/2016	Home Depot / Material Buy - Concrete & Mortar Bags			1.000 LS	30.41000		30.41	MU 15.00%	<u>6.83</u>
									Equipment Total	<b>52.35</b>
									<b>Material Charges</b>	
									Subtotal	413.28
									MU 15.00%	<u>61.99</u>
									Material Total	<b>475.27</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>1,502.16</b>
									Bill Subtotal	<b>1,502.16</b>
									Bill Total +	<b>1,502.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u> 1 </u>	



# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926

EXTRA WORK ORDER NO: 9830078

DATE OF REPORT: 12-21-16

DATE PERFORMED: 12-21-16

TO: CITY OF PLACENTIA

PROJECT: BEARS LAKE B.R.

DESCRIPTION OF WORK: FINISH NEW DRAIN @ CULVERT DRAINAGE  
APPROX STATION 108+10 - 108+30 PAVE SAND SWIRY CAP  
AND MORTAR AN 4 BOX'S

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	Roger Kevic	02292	F-250 PU	Labor Foreman	1/10
7560	KEVIN SULLIVAN			LABOR	5
3844	CHRIS JONES			LABOR	5

### SUMMARY OF MATERIAL & SPECIALTY FORCES

1.5 yaras SACK SAND SWIRY

2 BAGS CONCRETE

1 BAG MORTAR

1 MIXING CONTAINER

Roger Kevic  
McGuire & Hester Representative

Justin Webb 12/21/16  
Work Authorized by / Date



SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

INVOICE  
 90281

DATE  
 12/21/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	10

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/21	41024366	1.50	SS060NR9	SAND SLURRY	cy	95.00	142.50
12/21	41024366	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/21	41024366	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

RECEIVED  
 DEC 27 2016  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8.000	TAX	NON-TAXABLE	
1.50	354.50		28.37	0.00	TOTAL DUE
					\$382.87
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
1.50	0.11	01/10/2017	1.61		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!



EW-DI'S

B-137

**SYAR CONCRETE LLC**

P.O. Box 2700  
Napa, CA 94558  
Phone # 877-792-7649



DATE 12/21/2016	TICKET # 41024366
PO. # P3926-09	JOB # 3926
SYAR ORDER # 10	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVER TO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 8527 Durock Rd.
--	--	--

START BATCH/MIX CYCLE 11:45	LEAVE PLANT 12:00	ARRIVE JOB 12:20	START POUR 12:25	FINISH POUR 12:30	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:30	CU. YDS. ORDERED 1.5	CU. YDS. DELIVERED 1.5	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 4.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION: SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
1.50	SS060NR9	6 Sack Sand Slurry	yd		
1.00	157015	ENVIRONMENTAL CHARGE	ea		

MINIMUM LOAD CHARGE  
HWY 50BROADWAY EXIT RIGHT ON BLAIRS LANE

TRUCK # 8053	DRIVER MARK WOONER	WASHOUT USED YES <input type="checkbox"/> NO <input type="checkbox"/>	DRUM COUNTER
BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.		WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE	SUB TOTAL TAX <b>TOTAL</b>
SIGNED: _____		REQUESTOR'S NAME	GR TOTAL
CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.		FULL LOAD (GALLONS) 3/4 LOAD (GALLONS) 1/2 LOAD (GALLONS) 1/4 LOAD (GALLONS)	

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

**Batch Data**

Truck	Driver	User	Disp Ticket Num	Ticket ID	Time Date
8053	988	user	41024366	41279	11:49 12/21/16
Load Size	Mix Code	Returned	Qty	Mix Age	Seq Load ID
1.50	CYDS SS060NR9				D 24362
Material	Design Qty	Required	Batched	% Moisture	Actual Wat
CEM II/V	565.0 lb	837.5 lb	340.0 lb		18 gl
CONCRETE	2544 lb	3989 lb	3980 lb	4.00% M	39.00 gl
WATER	60.00 GL	11.71 GL	39.00 GL +		
Actual	Num Batches: 1			Manual	11:49:27
Load Total:	5135 lb	Design 0.886	Water/Cement 0.884 T	Design	90.0 gl Actual 57.3 gl To Add: 32.7 gl
Slump:	4.00 in	# Water in Truck:	0.0 gl Adjust Water:	0.0 gl / Load	Trim Water:-40.0 gl/ CYD

320833



More saving.  
More doing.™

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM  
CASHIER SELF CHECK OUT

099713047358 TUB <A>	5.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
727096305559 RAPID MORTAR <A>	14.45
RAPID SET 55LB MORTAR MIX	

SUBTOTAL	28.16
SALES TAX	2.25
TOTAL	\$30.41

XXXXXXXXXXXX6213 MASTERCARD	30.41
AUTH CODE 201205/3564432	TA

NEW LOWER PRICE (NLP) SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926

PRO XTRA SPEND THIS VISIT:	\$28.16
2016 PRO XTRA SPEND 12/20:	\$6,318.97


As of 12/21/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.

This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).



1085 56 25058 12/21/2016 5739

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Drainage Modifications To Driveways							Change Order <b>028</b> Billing Number <b>143.0</b> Report Date 12/30/2016 Perform Date 12/30/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00
L03 7560	K Sullivan	1.00			50.260			50.26		
<b>Equipment Charges</b>							<b>Equipment Charges</b>			
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	208.96
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Subsistence	0.00
E02 02268	Ford F-150 2013 HD Pickup	1.00			22.760			22.76	Other Expenses	0.00
E03 02211	Ford F250 2008 3/4 ton xcab	1.00			22.760			22.76	MU 35.00%	<u>73.14</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>							<b>Material Charges</b>			
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	Subtotal	68.28	
M01 90450	12/30/2016	Syar Concrete LLC / Concrete Buy			1.000 LS	117.72000	117.72	MU 15.00%	<u>10.23</u>	
							<b>Equipment Total</b>	<b>78.51</b>		
							<b>Material Total</b>	<b>135.38</b>		
							<b>Subcontract Charges</b>			
							<b>Activity Total</b>	<b>495.99</b>		
							<b>Bill Subtotal</b>	<b>495.99</b>		
							<b>Bill Total +</b>	<b>495.99</b>		
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: Customer: _____ Date: _____ Contractor: _____ Date: _____	Page <u> 1 </u>		





# EXTRA WORK REPORT CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830020  
 DATE OF REPORT: 12-30-16  
 DATE PERFORMED: 12-30-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAIRS LANE BR  
 DESCRIPTION OF WORK: CUT OUT A/C AND POUR CONCRETE  
 COLLARS ABOVE DRAINAGE BOXES (3)

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KEVIN	02292	F-250 PU	LABOR FOREMAN	1
7359	CURTIS SMITH	02268	F-150 PU	OPERATOR	1
7560	KEVIN SULLIVAN	02711	F-250 PU	LABOR	1

### SUMMARY OF MATERIAL & SPECIALTY FORCES

1 yard 0500 Concrete Form Syar

SCANNED

Roger Kevin  
 McGuire & Hester Representative

Justin Velt 1/17/17  
 Work Authorized by / Date



SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

B-143

INVOICE  
 90450

DATE  
 12/30/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	8

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/30	41024436	7.00	RP060AR5	CONCRETE	cy	101.00	707.00
12/30	41024436	7.00	113065	SYAR SET 55	/y	8.00	56.00
12/30	41024436	1.00	157005	MINIMUM LOAD CHA	ea	80.00	80.00
12/30	41024436	37.00	157000	STANDBY CHARGE	ea	2.00	74.00
12/30	41024436	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

1 yard of concrete @ \$101.00 p/yd plus 8% tax  
 1yard of of concrete set 55 @ \$8.00 p/yd plus 8% tax  
 Total \$117.72

RECEIVED  
 JAN 05 2017  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8,000	TAX	NON-TAXABLE	TOTAL DUE
7.00	855.00		68.41	74.00	\$997.41
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
7.00	0.53	01/10/2017	7.53		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. 14	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

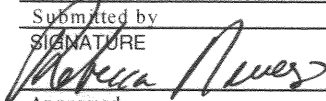
DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
DEWR 24-116.0 .....	\$380.56
DEWR 24-117.0 .....	\$158.44
DEWR 24-118.0 .....	\$236.89
DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

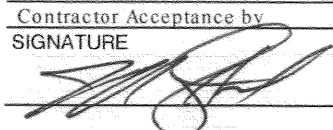
The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted by SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
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CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Sheet **1** of **1**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. <b>14</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
DEWR 24-116.0 .....	\$380.56
DEWR 24-117.0 .....	\$158.44
DEWR 24-118.0 .....	\$236.89
DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by

SIGNATURE	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE
-----------	---	------

Approved


SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
-----------	--	------

Approved

SIGNATURE	(PRINT NAME & TITLE)	DATE
-----------	----------------------	------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP AREA MANAGER	DATE 2/22/17
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CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. <b>14</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

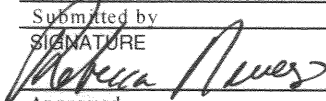
DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
DEWR 24-116.0 .....	\$380.56
DEWR 24-117.0 .....	\$158.44
DEWR 24-118.0 .....	\$236.89
DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

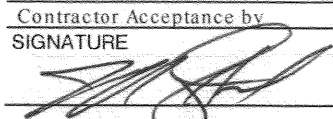
The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted by SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
--	---	-----------------

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. 14	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, work premium time as directed by the Engineer.

**Extra Work at Force Account:**

DEWR 24-109.0 .....	\$50.94
DEWR 24-110.0 .....	\$235.21
DEWR 24-111.0 .....	\$241.51
DEWR 24-112.0 .....	\$1,161.03
DEWR 24-113.0 .....	\$156.84
DEWR 24-114.0 .....	\$203.42
DEWR 24-115.0 .....	\$135.64
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DEWR 24-119.0 .....	\$78.98
DEWR 24-121.0 .....	\$126.86
DEWR 24-122.0 .....	\$157.96
DEWR 24-123.0 .....	\$1,105.63
DEWR 24-124.0 .....	\$118.38
DEWR 24-126.0 .....	\$358.26
DEWR 24-127.0 .....	\$258.23

**Total CCO #14 Amount: .....\$5,164.78**

The contractor agrees to accept the lump sum of \$5,164.78 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,164.78**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by

SIGNATURE	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE
-----------	---	------

Approved


SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
-----------	--	------

Approved

SIGNATURE	(PRINT NAME & TITLE)	DATE
-----------	----------------------	------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by

SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP AREA MANAGER	DATE 2/22/17
--	--	-----------------

CITY OF PLACERVILLE  
 CONTRACT CHANGE ORDER

Sheet 1 of 1

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. 13	Suppl. No. 0	Contract No. 40604	Project Blairs Lane Bridge Replacement	Federal Project Number: BRLO-5015(009)
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

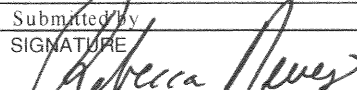
DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order:

Estimated Cost:  Decrease  Increase **\$5,339.13**

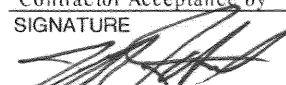
By reason of this order the time of completion will be adjusted as follows: No additional working days

Submitted By SIGNATURE 	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
--	---	-----------------

Approved SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
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Approved SIGNATURE	(PRINT NAME & TITLE)	DATE
-----------------------	----------------------	------

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by SIGNATURE 	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17
--	---	-----------------

CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Sheet **1** of **1**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
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CCO No. <b>13</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, clean tanks and filtration equipment used to perform work described in FCD 7 and CCO 4.

**Extra Work at Force Account:**

DEWR 27-94.0.....\$5,339.13

**Total CCO #13 Amount: .....\$5,339.13**

The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$5,339.13**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by		
SIGNATURE <i>Rebecca Neves</i>	(PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer	DATE 2/23/17
Approved		
SIGNATURE	(PRINT NAME & TITLE) Cleve Morris, City Manager	DATE
Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE <i>Jeff Hoebel</i>	(PRINT NAME & TITLE) JEFF HOEBEL, VP, AREA MANAGER	DATE 2/22/17



<b>CONTRACT CHANGE ORDER MEMORANDUM</b> CEM-4903 (REV06/2006)			Date: 01/23/2016	
To City Of Placerville			<b>Blairs Lane Bridge Replacement</b>	
From UNICO Engineering, Inc., Carl Sloan, RE			Prj # 40604 Fed No.: BRLO 5015 (009)	
CCO No <b>12</b>			Contingency Balance (Including this change)	
CCO Amount <b>\$36,900.00</b> <input checked="" type="checkbox"/> Increase <input type="checkbox"/> Decrease			Is this request in accordance with environmental documents? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Original Contract Working Days:  <u>170</u>	Time Adjustment This Change:  <u>0</u> Day(s)	Previously-Approved CCO Time Adjustments  <u>21</u> Day(s)	Percentage Time Adjusted To Date (Including this change)  <u>12%</u>	Total Number Of Unreconciled Deferred-Time CCO's (Including this change)  <u>0</u>

**This Change Order provides for:**

The installation of the Sanitary Sewer pump station for the Caltrans Yard. This additional work is a result of the Sewer redesign which raised the sewer line causing the need for a sanitary sewer pump station to serve the Caltrans Yard and Office facilities.

**Extra Work Calculations:****Working Days:**

No additional working days are granted.

**Total CCO 10 Cost – \$36,900, 0 Additional Working Days**

**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>11</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. **NOTE: This change order must be approved by the City Council:**  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

This Change Order changes the Contract in accordance with the attached Field Change Directive (FCD) 17R1. This Change Order hereby modifies Specification Section 39 Hot Mix Asphalt to allow paving when ambient temperatures are 40 degrees and rising, and when surface temperatures are above 32 degrees.

Estimated Cost:  Decrease  Increase **Deferred**

By reason of this order the time of completion will be adjusted as follows: **No additional working days granted**


**Submitted by**

SIGNATURE 	(PRINT NAME & TITLE) <b>Rebecca Neves P.E., City Engineer</b>	DATE 12/21/16
--	--	------------------

**Approved**

SIGNATURE	(PRINT NAME & TITLE) <b>Cleve Morris, City Manager</b>	DATE
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**Approved**

SIGNATURE 	(PRINT NAME & TITLE) <b>Resident Engineer</b>	DATE 12/21/16
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We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. **NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.**

**Contractor Acceptance by**

SIGNATURE	(PRINT NAME & TITLE)	DATE
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**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)  
**FIELD CHANGE DIRECTIVE #17R1**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17R1**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/20/2016**

**DESCRIPTION OF CHANGE:**

In addition to documentation provided via FCD 17, this revision includes direction to M&H to pave the project in compliance with the contract and the attached redlined QC Plan.

M&H has stated that paving can be completed in one shift. Paving shall occur in a single shift on 12-21-16 or 12-22-16 at M&H's option. Geocon shall perform QA/QC role. Areas of AB that show minor rutting (in front of Caltrans and PG&E driveway approximately 105+75 to 106+25) shall be finish rolled with a static roller prior to paving. Paving shall begin when conditions identified by Geocon in referenced letter are met. In addition, temperature of AB shall be a minimum of 32 degrees.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

Ambient temperatures are below minimum temperatures as defined in Specification Section 39-3.04.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer



December 20, 2016

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: Section 39-2.02 – Quality Control Plan (Revision 1) – Standard Construction Process – Asphalt Paving

Mr. Sloan:

The following Quality Control Plan will be executed in compliance with Section 39-2 Standard Construction Process for the ½" Medium Type "A" HMA PG64-10 w/15% Reclaimed Asphalt Pavement. Quality Control Material Testing will be completed by the Teichert Aggregates at the Perkins Plant located at;

- 8760 Kiefer Blvd. Sacramento, Ca. 95826.

Quality Control Organization - Teichert Aggregates Quality Assurance Team:

- Teichert Aggregates – Mike Kucunik - 916-386-6988
  - Mike Kucunik. - Quality Assurance Supervisor for the Blairs Lane Project.
  - Eric Gifford. - Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt Concrete Supervising Laboratory Technician.
  - Trenton Crouse. - Quality Assurance technician III.
  - James Haas. - Technician III.
  - Theodore Leal. - Technician III.
  - Luis Maca. - Quality Assurance Technician II.
  - John Scroggins. - Quality Assurance Technician II.
  - Brandon Snyder. - Quality Assurance Technician III.
  - Taylor Theis. - Quality Assurance Technician I.
- Attached is a copy of the CALTRANS Qualified Laboratory Inspection Report for the Teichert Perkins Plant for sampling and testing.
  - Inspected by – CALTRANS, Jackie Treat, (#107).
  - (A list of certifications for the Teichert Perkins Laboratory is included).
- A copy of the approved submittal #59 – ½" 64-10 HMA Type "A" w/15% RAP.
- Material Testing at the Teichert Perkins Plant will be completed per the CALTRANS Standard Specification Section 39-22.02B, "Minimum Quality Control – Standard Construction Process".

All testing shall be performed per Section 39-202B. Moisture Susceptibility and Hamburg tests shall not be required.

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule:

Quality Control – Standard Construction Process			
<del>Quality Characteristic</del>	<del>Test Method</del>	<del>Min. Sampling &amp; Testing Frequency</del>	<del>HMA Type "A"</del>
<del>Aggregate Gradation</del>	<del>Ca. Test 202</del>	<del>1 test/per 750 Tons</del>	<del>JMF +/-</del>
<del>Sand Equivalent</del>	<del>Ca. Test 217</del>	<del>1 test/per 750 Tons</del>	<del>47</del>



(Tensile Strength Ratio, %)

Smoothness	Section 39-1.12B & D	TBD Onsite	12-Ft
• Profilograph not required.			
(McGuire & Hester)			Straight Edge

Paving Operations:

- Weather permitting; M&H will proceed with placement of the ½" Max. Med. Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement per the modified construction methods provided by GEOCON Consultants Inc. within the recommendation letter, dated December 6, 2016.
- Asphalt Plant Batching - Teichert Aggregates will batch the asphalt mix from its Perkins Plant (8760 Kiefer Blvd. Sacramento, Ca. 95826), at 325 degrees. ~~The City of Placerville Quality Assurance representative is needed at the Teichert Plant to preform Quality Assurance Testing.~~ **Teichert**
- Hauling - All loads batched from the Teichert Perkins plant will be loaded onto Transfer haul trucks. All loads will be tarped, per FCD 17. Loads not tarped will be rejected. Loads which are tarped but arrive with asphalt mix at a temperature below 280 degrees will be rejected; ~~all cost for the rejected asphalt mix including the hauling and paving crew cost impacts will be paid by the City of Placerville.~~ **Per approved submittal 59**. Determination of the rejected or acceptable loads will be made in coordination with McGuire & Hester and the City of Placerville's Quality Assurance Representative.
- Construction – M&H will place a single .3' section of asphalt mix, Per FCD 17.
  - M&H will begin its operation at the PG&E & Cal-Trans Driveways on Wednesday December 21, 2016 ~~including any deep lift sections determined by the QC/QA representative and M&H representative Johann Berg (Minor Hand Work may be needed).~~ **Finish roll with static roller.**
  - Blairs Lane roadway paving will begin on, December 22, 2016, from the Broadway intersection towards Baco Drive. (Minor Hand Work may be needed). **12-21 or 12-22 at M&H option.**
  - M&H will coat all concrete and asphalt vertical edges with SS-1 oil prior to placement of asphalt mix.
  - M&H will receive and place the asphalt mix with the Cat Paver 1055 D, (a Weiler Paver P 385A will be onsite for back up).
  - The CAT 67" CAT Roller CB 534D will complete the initial breakdown roll prior to the asphalt mix cooling to 250 degrees. (The 51" CAT Roller CB 334E may be required at various locations for initial breakdown). Adjustments will be determined in the field. Field compaction testing to be provided by Geocon.
  - The 51" CAT Roller CB 334E will complete the intermediate compaction.
  - The CAT 47" CB 224E will complete the finish breakdown.
  - The intermediate and final roller operators will ensure temperatures levels per the Geocon letter during the final paving operations.
  - Pavement Smoothness will be monitored by M&H w/12-foot straight edge.
    - No Profilograph required.

Driveways may be built first at M&H option.

Rollers shall be minimum of those required in Geocon letter.

Corrective Actions:

- Teichert Plant Technicians and M&H will coordinate and confirm the asphalt mix quality characteristics.
  - Corrective Actions; Determination of Corrective Actions, by McGuire and Hester Forman Johan Berg, during the operations will be completed in coordination with the City of Placerville QC/QA Representative - Geocon.
    - Any corrective actions to the AC mix design, batching, hauling, compaction methods, paving, or any other paving corrective actions will be identified and coordinated with the onsite QC/QC representative.
    - Any sub-grade (AB) repairs or concerns will be determined by M&H and identified to Geocon to determine the correct action needed. ~~Any cost impacts will be tracked and paid by the City of Placerville on force account/T&M.~~



If you have any questions, comments, and/or concerns with the Quality Control Plan as outlined please feel free to call me at 916-873-2690.

Sincerely,  
**McGuire & Hester**

A handwritten signature in black ink, appearing to read "Hugo Gutierrez", written over a horizontal line.

Hugo Gutierrez  
Senior Project Manger



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #17**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 17**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/9/2016**

**DESCRIPTION OF CHANGE:**

Cold Weather Paving Recommendations. See attached letter.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Deferred

**REASON FOR CHANGE:**

These are recommendations for paving under 50 degrees.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

A handwritten signature in blue ink, appearing to read "C.A. Sloan".

BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer





Project No. S1080-05-01  
December 6, 2016

Carl A. Sloan, PE, MBA  
UNICO Engineering, Inc.  
110 Blue Ravine Road, Suite 101  
Folsom, California 95630

Subject: COLD WEATHER PAVING RECOMMENDATIONS  
BLAIRS LANE BRIDGE REPLACEMENT  
PLACERVILLE, CALIFORNIA

Dear Mr. Sloan:

As requested, we are providing this letter summarizing cold-weather paving recommendations. We understand that hot mix asphalt (HMA) paving of the Blairs Lane Bridge project is occurring this month. The project specifications require ambient air temperature to be 50° F and rising for paving operations, primarily to ensure that compaction can be achieved. Based on our experience, paving may occur at cooler temperatures such as 40° F and rising, provided some measures are taken to achieve proper compaction:

- Use the approved alternate HMA mix design (submittal 59)
- Batch the HMA at the highest temperature possible without compromising the integrity of the mix.
- Cover (tarp) all trucks transporting HMA. Any uncovered trucks arriving at the site should be rejected.
- The specified total HMA section thickness is 0.3 feet. We recommend placing the HMA in a single lift to increase the time duration that the HMA can be compacted, and therefore the probability that compaction will be achieved.
- Because of the larger lift thickness, start the breakdown roll as quickly as possible. Take measures to reduce the amount of “hand work” required to spread the HMA.
- Use a minimum of two 7-½-ton or larger dual drum vibratory rollers, one breakdown roller and one intermediate roller.
- HMA breakdown temperature should be no less than 250°F.
- Use a 4-ton or larger dual drum vibratory roller for final compaction.
- Final compaction should be achieved before the HMA mat cools below 150°F.

These recommendations are provided to assist the contractor in achieving the required compaction in cold weather conditions. All paving operations should be performed in the presence of our field representative, who will monitor HMA temperatures and perform compaction testing to help establish an appropriate compaction program. The contractor remains solely responsible for achieving the required compaction and constructing the pavement improvements in accordance with the projects plans and specifications.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in this area at this time. We make no warranty, express or implied.

Please contact us if you have any questions regarding this letter or if we may be of further service.

Sincerely,

**GEOCON CONSULTANTS, INC.**

Jeremy J. Zorne, PE, GE  
Senior Engineer



Richard Church, PE,  
Project Engineer





**CITY OF PLACERVILLE, CALIFORNIA  
DEVELOPMENT SERVICES DEPARTMENT  
ENGINEERING DIVISION**

approved flyer. Flyers may be hand delivered or mailed. The City will supply a list of addresses after award of the project. Anticipate approximately 100 residences.”

6. On page TSP-4, After “TEMPORARY TRAFFIC CONTROL” Heading, add the following section:

**Add to section 12-1.01A:**

Two Portable Changeable Message Signs are required for the road closure and detour. Start displaying the message on the portable changeable message sign 2 weeks before closing the road at locations directed by the Engineer. The Engineer will determine the message to be displayed. Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.

7. On page TSP-7, in Section 12-5.04, add the following:

“Payment for portable changeable message signs, regardless of the number of times moved, is included in the payment for Traffic Control System.”

8. On page TSP-10, Section 13-3.01A; add the following:

“You are responsible for implementing the SWPPP and performing any corrective actions required by the Engineer. Payment for implementing the SWPPP and performing any corrections is included in the various water pollution control items and Job Site Management.”

9. On page TSP-33 and TSP-34, Delete Section 15-2.06B, “Destroy Monitoring Well”.

10. On page C-2 of the Contract (Agreement), in Article 5 “Indemnity,” Add Lakemont LLC as indemnified

11. The Contractor’s Bid and Bid Price Schedule. Pages P-4 thru P-10 are replaced with the attached ones and must be used when submitting your bid. The changes are as follows:

Item #26 “Destroy Monitoring Well” - Delete item

Item #61 “Erosion Control (Dry Seed)(SQFT) - Change the Quantity 3100 to 5000

Item #86 “60” Precast Concrete Pipe Manhole” – Change unit of measure from LF to EA

Item #87 “72” Precast Concrete Pipe Manhole” - Change unit of measure from LF to EA

**CHANGES AND/OR CLARIFICATIONS TO THE PLANS:**

12. Replace plan sheets ECQ-1, DQ-1, DQ-2, UT-1, and Q-2 with the attached revised sheets in accordance with changes to the project Specifications listed above.

**BIDDER QUESTIONS:**

13. Who is responsible for testing?

A. UNICO (Construction Management and RE) is partnering with GEOCON to perform Hazardous Waste Testing. They are responsible for testing of soils, backfill, structural backfill, aggregate base, asphalt, concrete and other testing as required.

14. Question: Is there a temporary pumping plan for the sewer? What is the GPM?

A. No, there is no temporary pumping plan in the plans or specifications; if the contractor wishes to submit a temporary pumping plan, they are responsible for the design of the plan. The plan should include provisions for 145 GPM at the south side of Hangtown

## PERSONNEL QUALIFICATIONS

**Name:** Eric Gifford

**Position:** Quality Assurance Supervisor, Aggregates & Hot Mix Asphalt  
Supervising Laboratory Technician

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

Oversees and coordinates the processing of Geology test materials with other technicians and the Geology department.  
Processing new asphalt mix designs for the various plants for the up coming year and mix designs for upcoming jobs. Also processes mix verifications for the outside plants. Providing plant coverage for other technicians when necessary and coverage for QA at various jobsites in both asphalt and soils.

### EXPERIENCE

Since August 2000, Mr. Gifford has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties involving aggregates, soils and asphalt testing.

#### Caltrans QC/QA Inspect and test

1. 03 0A7814 Mack Rd Rt99
2. 03 366404 Camino
3. 03 0A6004 Colfax RT 80
4. 10 0A7404 Jacktone Rd Rt120

Various Sacramento County overlay projects

Various City of Elk Grove paving projects

#### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)	5/14/01
ACI Concrete field technician level	6/26/04
Asphalt Institute Certification HMA mix design class	3/4/05

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

**NICET Certification:**

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils		X		
Concrete	X			
Asphalt		X		

**TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler

- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

**EDUCATION**

Bachelor of Arts in Geology, 2000  
California State University Sacramento  
Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**ERIC GIFFORD**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T 324 Hamburg Wheel-Track testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**ERIC GIFFORD**  
of  
**TEICHERT PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.



## PERSONNEL QUALIFICATIONS

**Name:** Michael Kocunik  
**Position:** Quality Assurance Supervisor – Perkins and Grantline  
**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY

QA Lab, Teichert's Perkins Plant.

- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Determination to asphalt content - CTM310
- Sieve Analysis of Aggregates - CTM 202
- Total Moisture Content of aggregate by Drying - CTM 202
- AC Mix moisture Content by Drying - CTM 310
- Inspection of hot mix asphalt plant equipment, operation, and production

### EXPERIENCE

Since 1997, Mr. Kocunik has been employed by Teichert Aggregates' Quality Assurance Department. He has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities.

Mr. Kocunik also performed various testing procedures in the QA Lab for the Tracy Aggregates and Hot Mix Asphalt facilities. He has carried out QC duties on Cal-Trans Contract Nos. 10-414904, 03-444904, 03-384504, 03-1A69U4, 03-0A7814, 10-459304, 03-0A5504, 10-1A5204, 03-366404, and 10-218814.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gage safety and operation)

#### NICET Certification:

	Level 1	Level 2	Level 3	Level 4
<b>Construction Materials Testing:</b>				
Soils	X			
Concrete	X			
Asphalt	X			

### TRAINING

Trained in quality control testing which includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count

### EDUCATION

Bachelor of Science in Sociology, 1999 - California State University Sacramento  
Asphalt Institute "Construction of Quality Hot Mix Asphalt Pavements" June 2008

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**MIKE KOCUNIK**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

<u>T 11 Materials Finer Than 75-µm, Wash</u>	<u>T 304 Uncompacted Void Content, Fine</u>
<u>T 27 Sieve Analysis, Fine &amp; Coarse Agg.</u>	<u>T 308 Binder Content, Ignition, Method A</u>
<u>R30 Mixture Conditioning of HMA</u>	<u>T 312 Superpave Gyrotory Compactor</u>
<u>T 84 Bulk SpG (SSD) of Fine Aggr.</u>	<u>T 324 Hamburg Wheel-Track Testing</u>
<u>T 85 Bulk SpG (Oven Dry), Coarse Agg.</u>	<u>T248 Reducing Sample of Agg</u>
<u>T 96 LA Rattler</u>	<u>T 335 Fractures in Coarse Aggregate.</u>
<u>T 176 Sand Equivalent</u>	
<u>T 209 Theoretical Max. SpG (Method A)</u>	<u>D 4791 Flat &amp; Elongated Particles</u>
<u>T 269 % Air Voids</u>	
<u>T 275 Bulk SpG, Compacted HMA, Paraffin</u>	
<u>T 283 Moisture-Induced Damage</u>	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat** Jackie Treat

**Certified Independent Assurance (IA) Number** 107

**Date Issued:** 06/06/16 **(Expires 2 year after issue date)** **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**MIKE KOCUNIK**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

06/18	.....	x CTM 105 – CALCULATIONS
06/18	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
06/18	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
06/18	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
06/18	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
.....	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
06/18	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
06/18	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
06/18	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
06/18	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
06/18	.....	<input checked="" type="checkbox"/> CTM -227 -CV
06/18	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
06/18	.....	<input checked="" type="checkbox"/> CTM -234,235,371,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**FERNANDO RIVERA**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 06/06/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMES BREWSTER**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

02/16	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
	.....	<input type="checkbox"/> CTM 201 – SAMPLE PREPARATION
	.....	<input type="checkbox"/> CTM 202 – SIEVE ANALYSIS
	.....	<input type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
	.....	<input type="checkbox"/> CTM 217 – SAND EQUIVALENT
	.....	<input type="checkbox"/> CTM 226 – MOISTURE CONTENT
	.....	<input type="checkbox"/> CTM -227 -CV
	.....	<input type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
	.....	<input type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
	.....	<input type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
	.....	<input type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
	.....	<input type="checkbox"/> CTM 366 – STABILOMETER
	.....	<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
	.....	<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
	.....	<input type="checkbox"/> CTM 382 – PERCENT ASPHALT
	.....	<input type="checkbox"/> CTM -204,206
	.....	<input type="checkbox"/> CTM -207,211
	.....	<input type="checkbox"/> CTM -212,213,214,
	.....	<input type="checkbox"/> CTM -234,235,371
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**KEVIN ESPINOZA**  
District 03 Materials Engineer

*Jackie Treat*

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 02/11/16      Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Trenton Crouse

**Position:** QA Technician III

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Crouse has performed various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. He is also responsible for the testing of AMRL and Caltrans proficiency samples. Mr. Crouse is also responsible for maintaining lab and technician accreditations or certifications as well as verification of the testing equipment available at the labs.

### QUALIFICATIONS:

Mr. Crouse has been employed by Teichert Aggregates' Quality Assurance Department since 2006. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. He also holds a large number of Caltrans Certifications, AASHTO Certifications, 2 ACI Certifications, and Level 2 NICET Certifications. He has worked as the main plant technician on a number of Caltrans projects at a number of Teichert locations, both during the day and at night. Mr. Crouse has worked independently on a number of projects at outside locations and at the Perkins location.

### EXPERIENCE:

Mr. Crouse has worked with the Geology Department to evaluate various locations and their suitability for their use in aggregate production. He has experience at the majority of Teichert Hot Mix facilities and Rock Plant facilities. Since 2006 Mr. Crouse has been responsible for maintaining the quality of material through all phases of production at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 Resistance Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4471 Viscosity
- D 4791 Flat and Elongated

**ACI Aggregate Testing Technician Level 1**

**ACI Aggregate Testing Technician Level 2**

**NICET Certification:**

	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>
<b>Construction Materials Testing:</b>				
Soils	X	X		
Asphalt	X	X		
Concrete	X	X		
<b>Highway Materials</b>	X	X		

**Nuclear Gauge Safety Training Class  
Hazmat Nuclear Gauge Transportation/Use**

## **TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates, Soils  
Apparent Specific Gravity  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Micro Deval  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Soil Gravity  
Atterburg Limits  
Expansion Index  
Particle Size Analysis of Soils  
In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
HMA Compaction Nuclear Gauge  
Stabilometer Value  
Resistance of Compacted Bituminous Mixture to Moisture Induced Damage  
AC Content by Ignition and Nuclear Methods  
Gyratory Compaction of Samples  
Hamburg Wheel Track Testing

## **EDUCATION:**

Associate of Science in Construction Management Technology  
Cosumnes River College  
5/21/2014  
Associate of Arts in Business Administration  
Cosumnes River College  
Awaiting Commencement in early 2106



# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**TRENTON CROUSE**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyratory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	D7741 Apparent Viscosity
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TRENTON CROUSE**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
05/17	.....	<input checked="" type="checkbox"/> CTM -301 R-VALUE
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** James Haas  
**Position:** Technician III  
**Employer:** Teichert Quality Assurance

### AREA OF RESPONSIBILITY

Perkins Lab, Rock Plant, and Hot Plant Facilities:

- CTM 105
- Sampling of Aggregates and Asphalt Concrete - CTM 125
- Soil and Aggregate sample preparation – CTM 201
- Sieve Analysis of Aggregates - CTM 202
- Sand Equivalent – CTM 217
- Moisture Content of Soils - CTM 226
- Evaluating Cleanness of Aggregate - CTM 227
- Durability of Aggregate - CTM 229
- Moisture Content (Asphalt) - CTM 370
- AC Content - CTM 379, CTM 382

### EXPERIENCE

Since July 2003, Mr. Haas has been employed by Teichert Aggregates' Quality Assurance Department as a Quality Assurance Technician. Mr. Haas has performed various quality assurance duties at the main QA Department Lab for the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Haas has gained experience through Teichert's In House Proficiency Program involving aggregates, soils and asphalt testing.

### CERTIFICATIONS AND RATINGS

Troxler Certified (nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- |   |  |
|---|--|
| • CTM 105 Calculations  | • R 30 HMA Mixture Conditioning                      |
| • CTM 125 Sampling  | • T 11 Material Finer than #200 by Wash              |
| • CTM 201 Sample Preparation                                  | • T 27 Aggregate Gradation                           |
| • CTM 202 Sieve Analysis                                      | • T 30 Mechanical Analysis of Extracted Aggregate    |
| • CTM 205 Crushed Particles                                   | • T 84 Specific Gravity of Fine Aggregate            |
| • CTM 206 Specific Gravity and Absorption of Coarse Aggregate | • T 85 Specific Gravity of Coarse Aggregate          |
| • CTM 207 Specific Gravity and Absorption of Fine Aggregate   | • T 96 LA Rattler                                    |
| • CTM 208 Apparent Specific Gravity of Fine Aggregates        | • T166 Bulk Specific Gravity of Compacted HMA by SSD |
| • CTM 211 Abrasion of Coarse Aggregate by LAR                 | • T 176 Sand Equivalent                              |
| • CTM 217 Sand Equivalent                                     |  |

- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

## **TRAINING**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following:

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- AC Contents
- AC Moistures

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JAMES HAAS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackie Inat

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JAMESON HAAS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -371- MOISTURE SENSITIVITY
03/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -234,235,204,214,384
05/17	.....	<input checked="" type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Theodore Leal

**Position:** Technician III

**Employer:** Teichert Aggregates Quality Assurance Department

### AREA OF RESPONSIBILITY:

Mr. Leal is responsible for various testing procedures and maintaining the quality of materials being produced at the Perkins Quality Assurance Lab for the Perkins Aggregates and Hot Plant Facilities as well as other Teichert facilities.

### QUALIFICATIONS:

Mr. Leal has worked with AMRL and CCRL proficiency testing programs. Soil Testing: Atterberg limits, Soil Compaction, Sieve Analysis, Hydraulic Conductivity (D 5084), Expansion Index, and Resistance Value. Concrete and Concrete Aggregate Testing: Compression Strength, Specific Gravity and Absorption of Aggregates, and Durability.

### EXPERIENCE:

Mr. Leal has been employed by Teichert Aggregates' Quality Assurance Department since 2010. He has performed various QA duties at the QA Department Lab, as well as the Perkins Aggregates and Hot Mix Asphalt facilities. Mr. Leal has received training through Teichert's in-house training program dealing with aggregates, soils, and asphalt testing. Mr. Leal previously worked at Youngdahl Consulting for 5 and 1/2 years testing soil, aggregate, and concrete.

### CERTIFICATIONS AND RATINGS:

ACI Concrete Laboratory Testing Technician Grade I

Troxler Certified (Nuclear gauge safety and operation)

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler

- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 216 Relative Compaction of Untreated and Treated Soils and Aggregates
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 301 R Value
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

#### **TRAINING AND CONTINUING EDUCATION:**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

Sampling of Aggregates and Asphalt  
 Specific Gravity of Coarse Material, Fine Aggregates, Soils  
 Apparent Specific Gravity  
 Crushed Particle Count  
 Friable Particles  
 Soundness of Aggregate by Sodium Sulfate  
 Unit Weight  
 LA Rattler  
 Micro Deval  
 Laboratory Compaction of Soils  
 Resistance Value  
 Atterberg Limits  
 Particle Size Analysis of Soils



In Place Dry Density of Soils  
In Place Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value

**EDUCATION:**

Westmont High School, 1985  
High School Diploma  
West Valley College  
1985-1989

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**THEODORE LEAL**  
**TEICHERT- PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash

T 27 Sieve Analysis, Fine & Coarse Agg.

R30 Mixture Conditioning of HMA

T 84 Bulk SpG (SSD) of Fine Aggr.

T 85 Bulk SpG (Oven Dry), Coarse Agg.

T 96 LA Rattler

T 176 Sand Equivalent

T 209 Theoretical Max. SpG (Method A)

T 269 % Air Voids

T 275 Bulk SpG, Compacted HMA, Paraffin

T 283 Moisture-Induced Damage

T 304 Uncompacted Void Content, Fine

T 308 Binder Content, Ignition, Method A

T 312 Superpave Gyrotory Compactor

T 324 Hamburg Wheel-Track Testing

T248 Reducing Sample of Agg

T 335 Fractures in Coarse Aggregate.

D7741 Apparent Viscosity

D 4791 Flat & Elongated Particles

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

**Jackie Treat**\_\_\_\_\_

Certified Independent Assurance (IA) Number **#107**\_\_\_\_\_

Date Issued: **04/15/15** Expires **4/17** Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TED LEAL**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
**Expiration Date**                      **Test Method**

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
05/17	.....	<input checked="" type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
.....	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
.....	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -371-RESISTANCE TO MOISTURE
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,208,211
04/17	.....	<input checked="" type="checkbox"/> CTM -234,235
05/17	.....	<input checked="" type="checkbox"/> CTM -204,214,301,384
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Luis Maca  
**Position:** Quality Assurance Technician II  
**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Maca is responsible for various testing procedures at the Perkins and Woodland Quality Assurance Labs for the Aggregates and Hot Mix Asphalt facilities. Mr. Maca maintains the quality of the materials being produced at these facilities and is also responsible for sampling and providing materials being produced to outside agencies and customers when requested to do so.

### EDUCATION / QUALIFICATIONS:

Mr. Maca graduated from Cache Creek High School in Yolo, CA in 2009. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood & Woodland Aggregates and Hot Mix Asphalt facilities. Mr. Maca has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture

- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP

#### Damage

- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**LUIS MACA**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Inat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## Presents this CERTIFICATE OF PROFICIENCY

to  
**LUIS MACA**

of  
**TEICHERT-PERKINS**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	x CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206,207,211,212,214
04/17	.....	<input checked="" type="checkbox"/> CTM -384-
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**                      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** John Scroggins

**Position:** Quality Assurance Technician II

**Employer:** Teichert Aggregates - Quality Assurance

### AREA OF RESPONSIBILITY:

Mr. Scroggins is responsible for various testing procedures in the Perkins Quality Assurance Lab for the Aggregates and Hot Mix Asphalt facilities including the following:

- Moisture Content
- Sand Equivalent
- Durability Index
- T.S.R.
- Specific Gravity of Coarse Material, Fine Aggregates, Soils
- Crushed Particles
- Sampling/Gradations of Aggregates and Asphalt
- Sample Preparation
- Sieve Analysis
- Theoretical Maximum Specific Gravity of Bituminous Mixtures
- Asphalt Binder Content by Ignition Oven

### EDUCATION / QUALIFICATIONS:

Mr. Scroggins graduated from Redwood High School in Visalia, CA and attended College of the Sequoias and San Diego State University. He has worked with Teichert Aggregates' Quality Assurance Department since 2011. He has performed various QA duties at the QA Department Lab, as well as the Hallwood, Woodland, Martis, Vernalis and Cool Cave Aggregates and Hot Mix Asphalt facilities. Mr. Scroggins has received extensive training through Teichert's in-house training program dealing with aggregates, soil, and asphalt testing.

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse



- CTM 207 Specific Gravity and Absorption of Fine Aggregate
  - CTM 211 Abrasion of Coarse Aggregate by LAR
  - CTM 214 Soundness of Aggregates by Use of Sodium Sulfate
  - CTM 217 Sand Equivalent
  - CTM 226 Moisture Content
  - CTM 227 Cleanness of Coarse Aggregate
  - CTM 229 Durability
  - CTM 234 Uncompacted Void Content of Fine Aggregate
  - CTM 235 Flat and Elongated Particles
  - CTM 304 HMA Preparation for Testing
  - CTM 308 Bulk Spgr. of HMA Briquettes
  - CTM 309 Rice Spgr. and Density of HMA
  - CTM 366 Stabilometer
  - CTM 370 HMA Moisture (Microwave)
  - CTM 371 Moisture Sensitivity (TSR)
  - CTM 379 Percent Asphalt (Nuclear)
  - CTM 382 Percent Asphalt
  - CTM 384 Gradations for HMA using up to 25% RAP
- Aggregate
  - T 96 LA Rattler
  - T166 Bulk Specific Gravity of Compacted HMA by SSD
  - T 176 Sand Equivalent
  - T 209 Theoretical Max Density
  - T 210 Aggregate Durability Index
  - T 248 Reducing Samples of Aggregate
  - T 255 Moisture Content by Oven
  - T 269 Percent Air Voids
  - T 275 HMA Bulk Spgr. (Paraffin)
  - T 283 Resistance of HMA to Moisture Damage
  - T 304 Fine Aggregate Angularity
  - T 308 Binder Content Method A
  - T 312 Superpave Gyratory Compactor
  - T 324 Hamburg Wheel Track Test
  - T 329 Moisture Content of HMA, Oven Dry
  - T 335 Crushed Particles
  - D 4791 Flat and Elongated

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**JOHN SCROGGINS**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.  
Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 Jackue Guet

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**JOHN SCROGGINS**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

none	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
04/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
04/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
04/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
04/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
04/17	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
04/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
04/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
04/17	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
04/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
04/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
04/17	.....	<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
04/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
04/17	.....	<input checked="" type="checkbox"/> CTM -206, 207,211,234,235,
04/17	.....	<input checked="" type="checkbox"/> CTM -371,384
05/17	.....	<input checked="" type="checkbox"/> CTM 204,214
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
.....	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

*Jackie Treat*  
**Jackie Treat**

Certified Independent Assurance (IA) #107

Date Issued 03/17/15 Note:

This certificate is valid as long as the Tester complies with applicable requirements in Caltrans'

Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Brandon Snyder  
**Position:** Quality Assurance Technician III  
**Employer:** Teichert Aggregates - Quality Assurance Laboratory

### AREA OF RESPONSIBILITY

Mr. Snyder has performed various testing procedures at the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. Mr. Snyder is also responsible for the testing of production materials within the lab to ensure materials being produced meet the specified standards. Mr. Snyder works closely with the Senior Technician and Supervisors to ensure that materials are being tested properly and in a timely manner for reporting to Caltrans and various local agency personnel.

### EXPERIENCE

Since August 2004, Mr. Snyder has been employed by Teichert Aggregates' Quality Assurance Department. Mr. Snyder has performed various Quality Assurance duties involving aggregates, soils, and asphalt testing after receiving training through Teichert's In House Training Program. Mr. Snyder has performed work for various Caltrans and local agencies public works jobs as a sampler and tester of HMA and aggregate materials.

### CERTIFICATIONS AND RATINGS

Troxler Certified (Nuclear gage safety and operation)  
ACI Concrete Field Technician Level 1  
Asphalt Institute Certification HMA Mix Design Class

#### Current Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 205 Crushed Particles
- CTM 204 Liquid Limit, Plastic Limit and Plasticity Index of Soils
- CTM 206 Specific Gravity and Absorption of Coarse Aggregate
- CTM 207 Specific Gravity and Absorption of Fine Aggregate
- CTM 208 Apparent Specific Gravity of Fine Aggregates
- CTM 211 Abrasion of Coarse Aggregate by LAR
- CTM 214 Soundness of Aggregates
- R 30 HMA Mixture Conditioning
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 84 Specific Gravity of Fine Aggregate
- T 85 Specific Gravity of Coarse Aggregate
- T 96 LA Rattler
- T166 Bulk Specific Gravity of Compacted HMA by SSD
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index

- by Use of Sodium Sulfate
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 234 Uncompacted Void Content of Fine Aggregate
- CTM 235 Flat and Elongated Particles
- CTM 304 HMA Preparation for Testing
- CTM 308 Bulk Spgr. of HMA Briquettes
- CTM 309 Rice Spgr. and Density of HMA
- CTM 366 Stabilometer
- CTM 370 HMA Moisture (Microwave)
- CTM 371 Moisture Sensitivity (TSR)
- CTM 375 HMA Compaction (Nuclear)
- CTM 379 Percent Asphalt (Nuclear)
- CTM 382 Percent Asphalt
- CTM 384 Gradations for HMA using up to 25% RAP
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 269 Percent Air Voids
- T 275 HMA Bulk Spgr. (Paraffin)
- T 283 Resistance of HMA to Moisture Damage
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 312 Superpave Gyratory Compactor
- T 324 Hamburg Wheel Track Test
- T 329 Moisture Content of HMA, Oven Dry
- T 335 Crushed Particles
- D 4791 Flat and Elongated

### **Training**

Trained by in-house proficiency training program for ASTM, AASHTO and Cal-Trans test procedures. This training is ongoing and includes the following

- Durability of aggregates
- Sampling procedures (aggregate & asphalt)
- Product gradings (aggregate & asphalt)
- Specific gravity of aggregates
- Soundness of aggregates
- Sand Equivalent
- Cleanness Value
- L.A. Rattler
- Crushed Particle Count
- Nuclear Gauge Safety and Operation
- Unit Weights
- Organic Impurities
- Optimum Moisture Compactions

### **EDUCATION**

Cordova High school 2003  
 American River College 2004-2005  
 Sacramento, CA

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

**BRANDON SNYDER**  
**TEICHERT PERKINS**

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 283 Moisture-Induced Damage
T 84 Bulk SpG (SSD) of Fine Aggr.	T 304 Uncompacted Void Content, Fine
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 308 Binder Content, Ignition, Method A
T 96 LA Rattler	T 312 Superpave Gyrotory Compactor
T 166 Bulk SpG & Compacted Saturated	T324 Hamburg Wheel-Track Testing
T 176 Sand Equivalent	T 329 Moisture Content of HMA, Oven Dry
T 209 Theoretical Max. SpG (Method A)	T 335 Fractures in Coarse Aggregate.
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	D 4791 Flat & Elongated Particles
T 255 Moisture Content by Oven	D 7741 Viscosity

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Certified Independent Assurance (IA) #107 *Jackie Guat*

Date Issued: 3/17/15 Expires 3/17 Note: This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**BRANDON SNYDER**  
of  
**TEICHERT**

who is qualified to perform the following tests:

Expiration Date                      Test Method

None	.....	<input checked="" type="checkbox"/> CTM 105 – CALCULATIONS
03/17	.....	<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
03/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
03/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
03/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
	.....	<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
03/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
03/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
	.....	<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
03/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	.....	<input checked="" type="checkbox"/> CTM 366 – STABILOMETER
03/17	.....	<input checked="" type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	.....	<input checked="" type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	.....	<input checked="" type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
03/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
03/17	.....	<input checked="" type="checkbox"/> CTM -204,206,207,208,211,
03/17	.....	<input checked="" type="checkbox"/> CTM -214,234,235,371,384
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX
	.....	<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXX

**GIRMAY BEYENE**  
District 03 Materials Engineer

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 03/17/15    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

## PERSONNEL QUALIFICATIONS

**Name:** Taylor Theis

**Position:** QA Technician I

**Employer:** Teichert Aggregates Quality Assurance

### AREA OF RESPONSIBILITY:

Mrs. Theis is currently responsible for various testing procedures in the Perkins Quality Assurance Lab for the Perkins Rock Plant, Hot Mix Asphalt facilities, and various other Teichert facilities. On a regular basis Mrs. Theis monitors the production of aggregate and asphalt materials using test procedures such as gradation, sand equivalent, durability index, cleanness value, moisture content of aggregate and asphalt, as well as oil content. She is also responsible for coordinating with outside agencies such as City, County, and State Inspectors to sample and split material for Quality Assurance Testing

### QUALIFICATIONS/EXPERIENCE:

Mrs. Theis has been employed by Teichert Aggregates' Quality Assurance Department beginning in 2015. She has received extensive training through an in house training program. She has experience at a number of Teichert Hot Mix facilities and Rock Plant facilities.

### CERTIFICATIONS AND RATINGS:

#### Current Caltrans and AASHTO/ASTM Certifications

- CTM 105 Calculations
- CTM 125 Sampling
- CTM 201 Sample Preparation
- CTM 202 Sieve Analysis
- CTM 217 Sand Equivalent
- CTM 226 Moisture Content
- CTM 227 Cleanness of Coarse Aggregate
- CTM 229 Durability
- CTM 304 HMA Preparation for Testing
- CTM 309 Rice Spgr. and Density of HMA
- CTM 382 Percent Asphalt
- T 11 Material Finer than #200 by Wash
- T 27 Aggregate Gradation
- T 30 Mechanical Analysis of Extracted Aggregate
- T 176 Sand Equivalent
- T 209 Theoretical Max Density
- T 210 Aggregate Durability Index
- T 248 Reducing Samples of Aggregate
- T 255 Moisture Content by Oven
- T 304 Fine Aggregate Angularity
- T 308 Binder Content Method A
- T 329 Moisture Content of HMA, Oven Dry



**TRAINING (ASTM, AASHTO, and Caltrans Test Procedures)**

Sampling of Aggregates and Asphalt  
Sample Preparation  
Sieve Analysis  
-200  
Moisture Content  
Sand Equivalent  
Durability Index  
Cleanness Value  
Specific Gravity of Coarse Material, Fine Aggregates  
Uncompacted Void Content  
Crushed Particle Count  
Friable Particles  
Flat and Elongated Particles  
Soundness of Aggregate by Sodium Sulfate  
Unit Weight  
LA Rattler  
Laboratory Compaction of Soils  
ASTM 1557, ASTM 698, CTM 216  
Resistance Value  
Soil Moisture  
Specific Gravity of Bituminous AC  
Theoretical Maximum Specific Gravity of AC  
Stabilometer Value  
AC Content by Ignition and Nuclear Methods

**EDUCATION:**

Christian Brothers High School, 2010  
High School Diploma

San Diego Mesa College  
2010 – 2011

Folsom Lake Community College  
2011 - 2013

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



## PROFICIENCY CERTIFICATE

This is to signify that

### TAYLOR THEIS TEICHERT

has demonstrated proficiency in the testing of construction materials for use on Caltrans projects, in the following test methods:

Method Prefix "S" or "T" is an AASHTO Test Method.

Method Prefix "D" is an ASTM Test Standard.

T 11 Materials Finer Than 75-µm, Wash	T 269 % Air Voids
T 27 Sieve Analysis, Fine & Coarse Agg.	T 275 Bulk SpG, Compacted HMA, Paraffin
T 30 Mechanical Analysis of Ext Agg.	T 304 Uncompacted Void Content, Fine
T 84 Bulk SpG (SSD) of Fine Aggr.	T 308 Binder Content, Ignition, Method A
T 85 Bulk SpG (Oven Dry), Coarse Agg.	T 329 Moisture Content of HMA, Oven Dry
T 96 LA Rattler	T 335 Fractures in Coarse Aggregate.
T 166 Bulk SpG & Compacted Saturated	D 4791 Flat & Elongated Particles
T 176 Sand Equivalent	
T 209 Theoretical Max. SpG (Method A)	
T 210 Aggregate Durability Index	
T 248 Reducing Field Samples	
T 255 Moisture Content by Oven	

**Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications.**

Jackie Treat *Jackie Treat*

**Date Issued:** 05/11/16 **Expires** 05/17 **Note:** This certificate is valid as long as the Tester complies with the Independent Assurance Program. Laboratory must have current AASHTO Accreditation.

# CALIFORNIA DEPARTMENT OF TRANSPORTATION



*Presents this*  
**CERTIFICATE OF PROFICIENCY**  
to  
**TAYLOR THEIS**  
of  
**TEICHERT**

who is qualified to perform the following tests:  
Expiration Date                      Test Method

		CTM 105 – CALCULATIONS
		<input type="checkbox"/> CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17	.....	<input checked="" type="checkbox"/> CTM 125 – SAMPLING MATERIALS
05/17	.....	<input checked="" type="checkbox"/> CTM 201 – SAMPLE PREPARATION
05/17	.....	<input checked="" type="checkbox"/> CTM 202 – SIEVE ANALYSIS
05/17	.....	<input checked="" type="checkbox"/> CTM 205 – % CRUSHED PARTICLES
		<input type="checkbox"/> CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17	.....	<input checked="" type="checkbox"/> CTM 217 – SAND EQUIVALENT
05/17	.....	<input checked="" type="checkbox"/> CTM 226 – MOISTURE CONTENT
05/17	.....	<input checked="" type="checkbox"/> CTM -227 -CV
05/17	.....	<input checked="" type="checkbox"/> CTM 229 – DURABILITY
		<input type="checkbox"/> CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 304 – HMA PREPERATION FOR TESTING
05/17	.....	<input checked="" type="checkbox"/> CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17	.....	<input checked="" type="checkbox"/> CTM 309 – RICE S.G. & DENSITY OF HMA
		<input type="checkbox"/> CTM 366 – STABILOMETER
		<input type="checkbox"/> CTM 370 – HMA MOISTURE (MICROWAVE)
		<input type="checkbox"/> CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		<input type="checkbox"/> CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17	.....	<input checked="" type="checkbox"/> CTM 382 – PERCENT ASPHALT
		<input type="checkbox"/> CTM -204,206
		<input type="checkbox"/> CTM -207,211
		<input type="checkbox"/> CTM -212,213,214,
		<input type="checkbox"/> CTM -234,235,371
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX
		<input type="checkbox"/> CTM xxx – XXXXXXXXXXXXXXXXXXXX

**KEVIN ESPINOZA**  
District 03 Materials Engineer

*Jackie Treat*

**Jackie Treat**      Certified Independent Assurance (IA) #107

Date Issued 05/11/16    Note:  
This certificate is valid as long as the Tester  
complies with applicable requirements in Caltrans'  
Independent Assurance Program Manual.

### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

**Expiration date:** 3/20/2017  
**Inspected by:** Jackie Treat  
**IA No.:** #107  
**Phone:** 530-741-4131  
**File: Materials Category 500**

**Laboratory:** Teichert Incorporated-Perkins Laboratory-ID#32  
**Address:** 8609 Jackson Road, Building #101  
**City:** Sacramento **State:** CA **Zip:** 95826  
**Lab QC Mgr.:** Trenton Crouse **e-mail:** [tcrouse@teichert.com](mailto:tcrouse@teichert.com)  
**Telephone:** (916) 386-6974 **Fax #.:** (916) 386-8455

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate of Proficiency Form TL-0111 prior to performing any sampling or testing.

CTM 105, 125, 201, 202, 204, 205, 206, 207,208, 211, 212,214,  
217, 226, 227, 229, 234, 235,301, 304, 308, 309, 366,367, 370, 371  
375,379, 382, 384

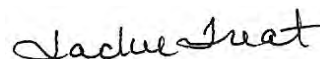
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



### CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Form TL-0113

<b>Expiration date:</b>	<u>3/20/2017</u>
<b>Inspected by:</b>	<u>Jackie Treat</u>
<b>IA No.:</b>	<u>#107</u>
<b>Phone:</b>	<u>530-741-4131</u>
<b>File: Materials Category</b>	<b>500</b>

<b>Laboratory:</b>	<u>Teichert Incorporated-Perkins Laboratory-ID#32</u>				
<b>Address:</b>	<u>8609 Jackson Road, Building #101</u>				
<b>City:</b>	<u>Sacramento</u>	<b>State:</b>	<u>CA</u>	<b>Zip:</b>	<u>95826</u>
<b>Lab QC Mgr.:</b>	<u>Trenton Crouse</u>	<b>e-mail:</b>	<u><a href="mailto:tcrouse@teichert.com">tcrouse@teichert.com</a></u>		
<b>Telephone:</b>	<u>(916) 386-6974</u>	<b>Fax #.:</b>	<u>(916) 386-8455</u>		

A certified Independent Assurance (IA) visited this laboratory on 3/16/2016  
 Only the equipment to be used on Caltrans construction projects and/or local construction projects on the  
 the National Highway System was checked for qualification.

At the time of Caltrans Qualification, this laboratory had all necessary equipment to perform the tests methods  
 indicated below. Testing personnel shall be Caltrans Qualified and possess a current Caltrans Certificate  
 of Proficiency Form TL-0111 prior to performing any sampling or testing.

AASHTO R18,R30,R35, R47 ,R58, T2, T11 T19,T21,T27, T30, T37,T39, T84, T85, T90,T96, T104, T112,T166, T167,  
T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T308, T309, T312, 324,T329,T331,  
T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791

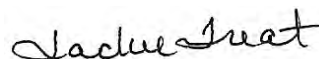
A visual check was performed and documents provided as necessary for the following items

- X A written in-house Safety Program
- X Verification that the laboratory participates in Caltrans RSP correlation program
- X Laboratory Procedures Manual
- X Laboratory Quality Control Manual
- X Proper Test equipment
- X Copies of current applicable test procedures
- X Calibration and service documentation
- X Calibration stickers affixed to test equipment (dated within the 12 months)
- X Personnel certification/qualification/training documentation
- X Nuclear gauge license

On 03/16/2016 this laboratory was Caltrans Qualified by

**Jackie Treat #107**

IA Inspector



## Teichert Quality Assurance

**Sacramento, California**

[Show This Entry Only](#)

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

Fax:

[jblumer@teichert.com](mailto:jblumer@teichert.com)

<http://www.teichert.com>

**16-7497** : Accreditation has been suspended for Asphalt Mixture method(s) T30, D5444

**Quality Management System** - accredited since 2/1/1997

R18, C1077 (Aggregate), C1077 (Concrete), D3666 (Aggregate), D3666 (Asphalt Mixture)

**Asphalt Mixture** - accredited since 2/21/2013

R47, R68, T166, T167, T209, T245, T246, T247, T269, T275, T283, T305, T308, T312, T324, T329, D1074, D1075, D1188, D1560 (Stability), D1561, D2041, D2726, D2950, D3203, D4867, D6307, D6390, D6925, D6926, D6927, D6931

**Soil** - accredited since 2/21/2013

R58, T88, T89, T90, T99, T100, T146, T176, T180, T190, T265, D421, D422, D698, D854, D1140, D1557, D2216, D2419, D2844, D4318

**Aggregate** - accredited since 2/21/2013

T2, T11, T19, T21, T27, T37, T84, T85, T96, T104, T112, T176, T210, T248, T255, T304, T335, C29, C40, C88, C117, C127, C128, C131, C136, C142, C535, C566, C702, C1252, D75, D546, D2419, D3744, D4791, D5821

**Concrete** - accredited since 2/1/1998

M201, R39, R60, T22, T23, T97, T119, T121, T152, T196, T309, C31, C39, C78, C138, C143, C172, C173, C192, C231, C511, C1064, C1231 (7000 psi and below)

Please note that our accreditations do not include an expiration date. An accreditation only expires when the laboratory fails to comply with our accreditation requirements.

\* This information is only valid as of 7/11/2016. Please visit <http://www.amrl.net> for current accreditation status.





**A. TEICHERT & SON, INC.**

*Established 1887*

December 8, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Hugo Gutierrez

Re: Blairs Lane

Dear Hugo,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement with Evotherm M1 for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP and Evotherm M1 complies with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor



# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 3/2/2016  
 Plant: Perkins GenCor  
 Agg Source: S.M.A.R.A. # 91-34-0037  
 Asphalt: PG64-10

Type: 1/2" Max. Med. Type A w/15% RAP  
 w/ 0.3% Evotherm M1 Warm Mix  
 Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	18	41	11	15	
50.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
37.5mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
25.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
19.0mm	<b>100</b>	<b>100</b>	100	100	100	100	100	
12.5mm	<b>90 - 100</b>	<b>96</b>	71	100	100	100	100	
9.5mm	<b>78 - 90</b>	<b>84</b>	19	78	100	100	99	
4.75mm	<b>53 - 67</b>	<b>60</b>	3	3	90	100	74	
2.36mm	<b>35 - 45</b>	<b>40</b>		1	55	88	52	
1.18mm	-	<b>28</b>			35	72	40	
600µm	<b>16 - 24</b>	<b>20</b>			25	46	31	
300µm	-	<b>14</b>			21	17	22	
150µm	-	<b>9</b>			15	4	15	
75µm	<b>3.5 - 7.5</b>	<b>5.5</b>			9.5	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	<b>5.5</b> *	N/A
AIR VOIDS %	C.T.M.367	<b>4.0</b>	4.0%
UNIT WEIGHT Kg M³	C.T.M.308-A	<b>2.441</b>	N/A
RICE UNIT WEIGHT Kg M³	C.T.M. 309	<b>2.543</b>	N/A
STABILOMETER VALUE	C.T.M.366	<b>38</b>	37 min
Dust Proportion	LP-4	<b>1.2</b>	0.6 - 1.2
VMA	LP-2	<b>14.2</b>	14.0 min
VFA	LP-3	<b>73</b>	65 - 75
FAA	AASHTO T304	<b>46</b>	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

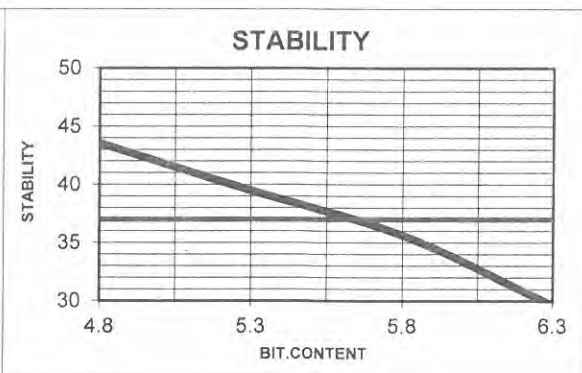
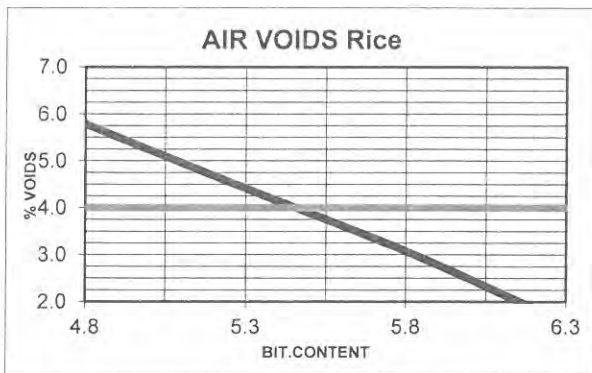
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
K Factor's CTM 303	N/A	N/A	1.7 Max
Specific Gravity CTM 206/208	2.728	2.673	N/A
COMBINED SP.GR.=	2.725		

**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.0	63.8	63.5	63.5	64.0	63.0	63.2
HEIGHT IN.	2.52	2.51	2.50	2.50	2.52	2.48	2.49
500							
1000							
2000							
3000							
4000							
5000	36	41	48	59	43	45	42
6000							
URNS DIS.	2.91	2.98	2.94	3.05	3.00	2.98	3.12
STABILITY	<b>44</b>	<b>39</b>	<b>36</b>	<b>30</b>	<b>38</b>	<b>37</b>	<b>38</b>

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1241.7	1250.2	1258.6	1262.9	1252.8	1255.6	1256.0
WAX AIR	1262.0	1267.5	1272.5	1277.6	1271.3	1272.8	1274.4
WAX H2O	726.4	735.4	744.2	751.0	737.1	740.8	740.5
CTM 308 SP.GR.	2.420	2.438	2.454	2.475	2.439	2.448	2.446
CTM 309 MAX SPGR	2.569	2.550	2.532	2.514	2.543	2.543	2.543
CTM 367 AIR VOIDS%	5.8	4.4	3.1	1.6	4.1	3.7	3.8
UNIT WT. FLUSHING	151.0	152.1	153.1	154.4	152.2	152.8	152.6



STEP				
4	Max Asphalt Content with 4 or more % Voids		5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8
1	DESIGN SET	4.8	5.3	5.8
				6.3
	* OPTIMUM BITUMEN CONTENT=		<b>5.5</b>	
	RECOMMENDED RANGE=	5.2		5.5



## Section 1. Identification

GHS product identifier : EVOTHERM® M1  
Chemical name : Fatty amine derivatives  
Product type : Liquid

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Asphalt additive

Material uses : Asphalt additive

Manufacturer : MeadWestvaco Corporation  
Specialty Chemicals Division  
5255 Virginia Avenue  
North Charleston, South Carolina USA 29405-5615  
msds@mwv.com  
  
Telephone no.: +1 843 740 2236, +1 800 458 4034  
Hours of operation: 0800 - 1700 EST

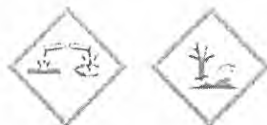
Emergency telephone number (with hours of operation) : +1 703 527 3887 (USA)  
4001-204937 (in China)  
CHEMTREC International

## Section 2. Hazards identification

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC TOXICITY (ACUTE) - Category 1  
AQUATIC TOXICITY (CHRONIC) - Category 1

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Causes serious eye damage.  
Causes skin irritation.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Recommended: Safety glasses with side shields, splash goggles, or face shield. Avoid release to the environment. Wash hands thoroughly after handling.

Response : Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : Not applicable.

## Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations

Other hazards which do not result in classification : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Substance  
Chemical name : Fatty amine derivatives  
Other means of identification : Not available.

### CAS number/other identifiers

CAS number : Not available.  
EC number : Not available.

Ingredient name	%	CAS number
Fatty amine derivatives	100	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First-aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes skin irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Use any extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Dispose of according to all federal, state and local applicable regulations.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 5 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: Safety glasses with side shields, splash goggles, or face shield.

### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat, apron or coveralls
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Amber, [Dark]
- Odour** : Amine-like.
- Odour threshold** : Not available.
- pH** : 10 to 12 [Conc. (% w/w): 15%]
- Melting point** : <25°C (<77°F)
- Boiling point** : >200°C (>392°F)
- Flash point** : Closed cup: >204.4°C (>399.9°F) [Pensky-Martens ]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : <1.0 x 10<sup>-12</sup> mmHg @25 °C
- Vapour density** : Not available.
- Relative density** : 0.97 [Water = 1]
- Solubility** : Partially soluble in the following materials: cold water and hot water.
- Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.
- Other** : Not available.



## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials, metals and acids. DO NOT MIX WITH NITRITES. MAY FORM SUSPECTED CANCER CAUSING NITROSAMINES.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

## Section 11. Toxicological information

### Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact : Causes skin irritation.
- Ingestion : May cause burns to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation : No specific data.
- Skin contact : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

#### Long term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

- General : No known significant effects or critical hazards.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : No known significant effects or critical hazards.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours 96 hours

### Persistence/degradability

Not available

Product/ingredient name	Test	Result	Dose	Inoculum
Fatty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % - 28 days	-	Activated sludge

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty amine derivatives	-	-	Not readily

### Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition  
coefficient (K<sub>oc</sub>) : 5.8

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.


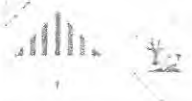


The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL

## Section 13. Disposal considerations

PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

	UN	IMDG	IATA	DOT Classification
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid, n.o.s. (Fatty amine derivatives), Marine pollutant (Fatty amine derivatives)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Special provisions</u> 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Emergency schedules (EmS)</u> F-A, S-F  <u>Special provisions</u> 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Passenger and Cargo Aircraft</u> Quantity limitation: 450 L Packaging instructions: 964 <u>Cargo Aircraft Only</u> Quantity limitation: 450 L Packaging instructions: 964	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg.  <u>Limited quantity</u> Yes.

## Section 14. Transport information

			<u>Limited Quantities</u> <u>- Passenger</u> <u>Aircraft</u> Quantity limitation: 30 kg Packaging instructions: Y954	<u>Special provisions</u> 8, 146, 173, 335, 183, T4, TP1, TP29
			<u>Special provisions</u> A97, A158	

## Section 15. Regulatory information

### China

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

China inventory (IECSC) : This material is listed or exempted.

### List of Goods banned for Importing

None of the components are listed.

### List of Goods banned for Exporting

None of the components are listed.

### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

### Japan

#### Japan Control Law

Explosives Control Law : Not applicable.

High Pressure Gas Control Law : Not applicable.

Law

Fire Service Law : Class 4; Type 4 petroleum Designated quantity : Not available.

Fire Service Law : Not available. Designated quantity : Not available

Substance to report : Not applicable. Designated quantity : Not available.

Fire Service Law - Obstructive materials : Not listed

Characteristics : Not available.

Danger class : Not available.

#### Poisonous and Deleterious Substances

Use of specified chemical substances : Not available.

ISHL : Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation : Not applicable.

## Section 15. Regulatory information

Occupational diseases	: Not available.
Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster	: Marine pollutant: P
Notification Regulating Transportation of Dangerous Materials by Sea	: Not available.
Civil Aeronautics Law	: Not available.
Pollutant Release and Transfer Registers (PRTR)	: Not listed
Road law	: Not applicable.
JSOH Carcinogen	: Not listed
ISHL Prevention of Tetraalkyl Lead Poisoning	: Not listed
ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
ISHL Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Chemicals requiring notification	: Not listed
ISHL Dangerous Substances	: Not listed
List of Specially Controlled Industrial Waste	: Not listed

### Chemical Substances Control Law (CSCL)

Not available.

Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory	: This material is listed or exempted.
Other regulations	: Not available.
Safety, health and environmental regulations specific for the product	: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### South Korea

#### A. Regulation according to ISHA

ISHA Article 37	: This material is not listed.
ISHA Article 38	: This material is not listed.

#### B. Regulation according to TCCA

TCCA Toxic chemicals	: Not applicable
TCCA Observational chemicals	: This material is not listed.

## Section 15. Regulatory information

- TCCA Article 32 (Banned) : This material is not listed.
- TCCA Article 32 (Restricted) : This material is not listed.
- TCCA Article 17 (TRI) : This material is not listed.
- Korea inventory : This material is listed or exempted.
- C. Dangerous Materials Safety Management Act : Not available.
- D. Wastes regulation : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- E. Regulation according to other foreign laws
- Europe inventory : This material is listed or exempted.
- United States inventory (TSCA 8b) : This material is listed or exempted.
- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).
- International lists : Japan inventory: This material is listed or exempted.  
Korea inventory: This material is listed or exempted.  
Europe inventory: This material is listed or exempted.  
United States inventory (TSCA 8b): This material is listed or exempted.  
Australia inventory (AICS): This material is listed or exempted.  
China inventory (IECSC): This material is listed or exempted.  
Malaysia Inventory (EHS Register): Not determined.  
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.  
Philippines inventory (PICCS): This material is listed or exempted.  
Taiwan inventory (CSNN): This material is listed or exempted.  
Canada inventory: This material is listed or exempted.

### Brazil

- Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

### History

- Date of issue/Date of revision : 10/18/2013.
- Date of previous issue : 10/01/2013.
- Version : 5
- Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods

## Section 16. Other information

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

### References

Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.







**A. TEICHERT & SON, INC.**

*Established 1887*

July 27, 2016

McGuire & Hester  
9009 Railroad Ave.  
Oakland, CA 94603

Attention: Mr. Arnie Garcia

Re: Blairs Lane

Dear Arnie,

We propose to furnish 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/15% Reclaimed Asphalt Pavement for use on the above referenced project. This material will be produced at our Perkins Plant. Although we intend to furnish this material for use on the above referenced project, we strongly suggest you contact your Teichert Materials sales representative to confirm availability.

The 1/2" Maximum Medium Type "A" Hot Mix Asphalt w/RAP comply with Caltrans Standard Specifications, Section 39. Viscosity Grade for this mix will be PG 64-10, in compliance with Section 92 in Cal-Trans Standard Specifications. Mix designs are attached.

Should your project requirements differ from the aforementioned specifications, this material may not be suitable for the intended application. In this instance, we recommend you contact your Teichert Materials salesperson to find a product which will meet your specific needs.

If you have any questions, please contact me at (916) 386-6974.

Sincerely,  
Teichert Materials

Mike Kocunik  
Quality Assurance Supervisor



10090 Waterman Rd.  
Elk Grove, CA 95624  
Phone: (916) 685-9253

John Schmidt  
Teichert Aggregates  
3500 American River Dr.  
Sacramento Ca. 95824

Dear John,

In regards to your question about Paramount Petroleum's PG 64-10, I would like to assure you that Paramount's PG 64-10 will meet all Caltrans specifications for PG 64-16. Paramount is currently on Caltrans list of approved suppliers and also a member of their COC program which requires us to submit to them numerous PG grade samples to their lab for specification compliance each week.

If you have any further questions please don't hesitate to call.

Thank You,  
Jack

Jack Dougherty  
Divisional Manager  
Asphalt R&D and Field Engineering Support  
Paramount Petroleum / Alon USA  
10090 Waterman Road  
Elk Grove, Ca. 95624  
Phone: (916) 685-9253  
Cell: (916) 826-3243  
Fax: (916) 685-8701  
[jdougherty@ppcla.com](mailto:jdougherty@ppcla.com)

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins Batch Plant  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin	3	2	1	BHD	RAP
		Size					
% Used		100	11	26.5	47	0.5	15
2"	100	100	100	100	100	100	100
1 1/2"	100	100	100	100	100	100	100
1"	100	100	100	100	100	100	100
3/4"	100	100	100	100	100	100	100
1/2"	90 - 100	96	62	100	100	100	100
3/8"	78 - 90	84	3	82	100	100	99
#4	54 - 68	61	1	15	96	100	74
#8	37 - 47	42		1	70	100	52
#16	-	28			46	100	40
#30	17 - 25	21			33	100	31
#50	-	14			22	99	22
#100	-	9			14	92	15
#200	3.7 - 7.7	5.7			8.0	76.0	10.3

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451 152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554 159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	N/A
<b>REMARKS:</b> * Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.			

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

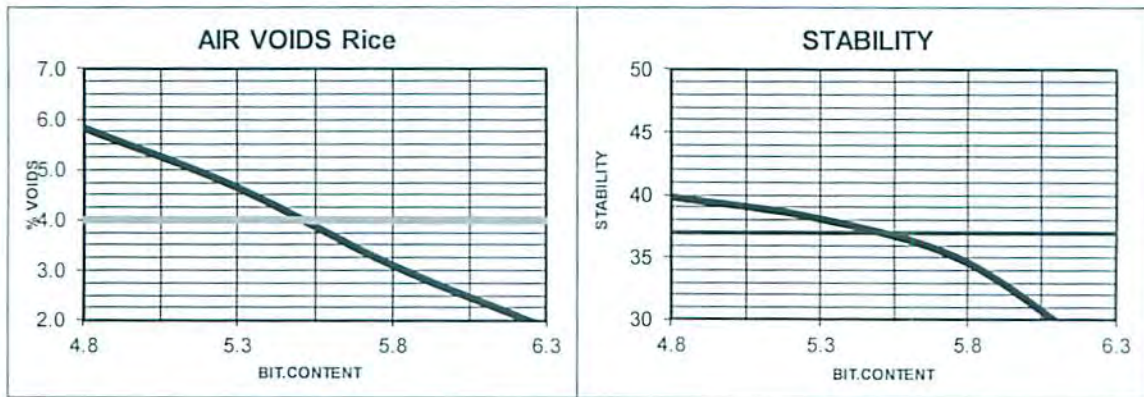
Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs. CTM 211	4	N/A	12%
500 Revs. CTM 211	19	N/A	45%
Crushed Particles % CTM 205	99.5	99.0	90%/70%
Crushed Particles % 2 Faces	91.6	N/A	75%
Sand Equivalent CTM 217	N/A	77	47 min
Flat & Elongated (3:1) ASTM D 4791	5.7		
(5:1)	3.2		
Specific Gravity CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0		

1/2" Max. Medium "A" w/RAP (Batch Plant)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	64.5	64.3	64.3	64.0	63.5	63.8	62.7
HEIGHT IN.	2.54	2.53	2.53	2.52	2.50	2.51	2.47
500	10	10	12	13			
1000	14	14	20	20			
2000	21	22	28	30			
3000	28	30	36	42			
4000	35	39	44	57			
5000	41	46	53	75	44	43	45
6000	49	58	65	93			
URNS DIS.	2.94	2.78	2.75	2.71	3.12	2.99	2.95
STABILITY	40	38	35	26	37	38	37

AIR VOIDS DETERMINATION ( C.T.M. 367)

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1245.8	1254.5	1257.0	1266.5	1256.0	1254.3	1252.9
WAX AIR	1255.1	1264.2	1266.7	1275.8	1268.8	1270.1	1269.6
WAX H2O	730.7	738.5	744.6	753.3	741.1	740.9	739.8
CTM 308 SP.GR.	2.423	2.436	2.458	2.473	2.446	2.452	2.451
CTM 309 MAX SPGR	2.574	2.555	2.537	2.519	2.554	2.554	2.554
CTM 367 AIR VOIDS%	5.8	4.6	3.1	1.8	4.2	4.0	4.0
UNIT WT. FLUSHING	151.2	152.0	153.4	154.3	152.6	153.0	152.9



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

# TEICHERT QUALITY ASSURANCE

## HVEEM MIX DESIGN

Date: 1/6/2016  
 Plant: Perkins (Drum)  
 Agg Source: S.M.A.R.A. # 91-34-0045  
 Asphalt: PG 64-10

Type: 1/2" Maximum Medium Type "A"  
 w/15% RAP

Performed by: Mike Kocunik

Reviewed by: Eric Gifford

### AGGREGATE BLEND

	Operating Range	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used		100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
1 1/2"	100	100	100	100	100	100	100	
1"	100	100	100	100	100	100	100	
3/4"	100	100	100	100	100	100	100	
1/2"	90 - 100	96	71	100	100	100	100	
3/8"	78 - 90	84	19	78	100	100	99	
#4	54 - 68	61	3	3	86	100	74	
#8	37 - 47	42		1	55	90	52	
#16	-	30			35	75	40	
#30	17 - 25	21			25	50	31	
#50	-	14			21	17	22	
#100	-	9			15	4	15	
#200	3.7 - 7.7	5.7			9.2	0.9	10.3	

### DESIGN SUMMARY

Test method	Test #	Result	Specifications
OPTIMUM AC%( By dry wt.of agg.)	As graphed	5.5 *	N/A
AIR VOIDS %	C.T.M.367	4.0	4.0%
UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M.308-A	2.451    152.6	N/A
RICE UNIT WEIGHT Kg M <sup>3</sup> , PCF	C.T.M. 309	2.554    159.0	N/A
STABILOMETER VALUE	C.T.M.366	37	37 min
Dust Proportion	LP-4	1.3	0.6 - 1.3
VMA	LP-2	14.1	14.0 min
VFA	LP-3	72	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371	-	70 min
REMARKS:	* Virgin oil to be added to the aggregate shall be 4.8% by dry weight of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.		

### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

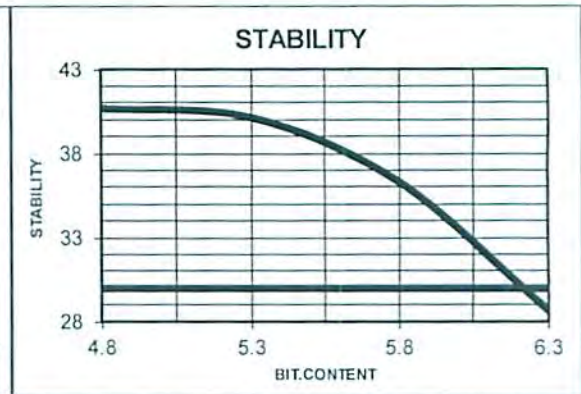
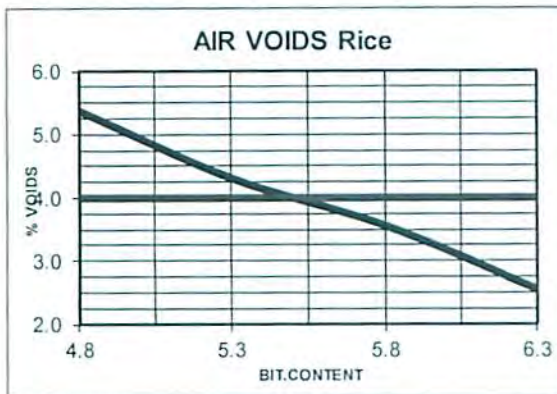
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Revs.	CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Flat & Elong. (3:1)	ASTM D4791	5.7		
Flat & Elong. (5:1)	ASTM D4791	3.2		
Specific Gravity	CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0			

1/2" Max. Medium Type "A", Perkins Drum Plant  
**STABILOMETER ( C.T.M. 366)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.	63.5	63.2	62.7	62.5	63.0	63.8	63.8
HEIGHT IN.	2.50	2.49	2.47	2.46	2.48	2.51	2.51
500	10	9	9	10			
1000	13	13	14	14			
2000	18	20	22	23			
3000	23	25	30	31			
4000	30	32	37	39			
5000	37	38	48	57	43	40	46
6000	45	52	60	61			
URNS DIS.	3.18	3.16	2.86	3.33	3.01	3.15	2.97
STABILITY	41	40	36	29	38	39	37

**AIR VOIDS DETERMINATION ( C.T.M. 367)**

SPECIMEN	A	B	C	D	@ Optimum		
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
WT. IN AIR	1215.4	1218.8	1223.9	1233.3	1221	1223.1	1220.8
WAX AIR	1224.4	1230.5	1234.8	1246.4	1232.5	1235.6	1231.1
WAX H2O	714.5	718.2	721.7	728.8	722.5	720.2	719.5
CTM 308 SP.GR.	2.431	2.441	2.443	2.452	2.456	2.439	2.441
CTM 309 MAX SPGR	2.570	2.551	2.533	2.516	159.120	159.120	159.120
CTM 367 AIR VOIDS%	5.4	4.3	3.6	2.5	98.5	98.5	98.5
UNIT WT. FLUSHING	151.7	152.3	152.4	153.0	153.2	152.2	152.3



STEP		4.8	5.3	5.8	6.3
4	Max Asphalt Content with 4 or more % Voids			5.5	OBC*
3	MEETING MIN. STAB. (ENTER UP TO TWO)		4.8	5.3	
2	NONFLUSHING SPECIMENS (ENTER UP TO THREE)	4.8	5.3	5.8	
1	DESIGN SET	4.8	5.3	5.8	6.3
* OPTIMUM BITUMEN CONTENT=			5.5		
RECOMMENDED RANGE=		5.2		5.5	

CITY OF PLACERVILLE  
**CONTRACT CHANGE ORDER**

Change Requested by:	<input checked="" type="checkbox"/> City	<input type="checkbox"/> Contractor
----------------------	--	-------------------------------------

CCO No. <b>15</b>	Suppl. No. <b>0</b>	Contract No. <b>40604</b>	Project <b>Blairs Lane Bridge Replacement</b>	Federal Project Number: <b>BRLO-5015(009)</b>
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To: **McGuire & Hester, Inc.**

You are directed to make the following changes from the plans and specifications or do the following described work not included in the plans and specifications for this contract. NOTE: This change order must be approved by the City Council:  Yes  No

Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract price, agreed price and force account.)

In accordance with Section 4-1.05, "Changes and Extra Work," of the Special Provisions, install additional Drainage Inlets per FCD 18, RFI 33 and Engineer's field direction in the Caltrans, Valero and Chevron driveways.

**Extra Work at Force Account:**

DEWR 28-132.0 .....	\$135.36
DEWR 28-133.0 .....	\$5,130.87
DEWR 28-134.0 .....	\$984.70
DEWR 28-135.0 .....	\$439.16
DEWR 28-136.0 .....	\$832.14
DEWR 28-137.0 .....	\$1,502.16
DEWR 28-143.0 .....	\$495.99

**Total CCO #15 Amount: .....\$9,520.38**

The contractor agrees to accept the lump sum of \$9,520.38 as full and complete compensation for this change order.

Estimated Cost:  Decrease  Increase **\$9,520.38**

By reason of this order the time of completion will be adjusted as follows: **No additional working days**

Submitted by		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Rebecca Neves P.E., City Engineer	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE
	Cleve Morris, City Manager	

Approved		
SIGNATURE	(PRINT NAME & TITLE)	DATE

We the undersigned, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by		
SIGNATURE	(PRINT NAME & TITLE)	DATE





Since 1926

January 24, 2017

**UNICO Engineering / City of Placerville**  
3101 Center Street  
Placerville, Ca. 95667

Attention: **Carl Sloan**

Reference: **City of Placerville – Blairs Lane Bridge Replacement Project – M&H Job # 3926**

Subject: M&H Change Order Request #028 – Driveway Drainage Modifications

Mr. Sloan,

Attached are copies of daily extra work tags which were signed by UNICO Engineering for the additional labor and materials per FCD 018 and RFI #33 for the Blairs Lane Bridge Replacement Project. Please review the attached daily extra work reports, as well as, process and approve for billing as we would like to include the cost in our January 2017 billing. The total cost for change order request #028 is \$9,520.38

Due to the unforeseen additional work, M&H is requesting 3 additional working days to be granted to the contract.

If you have any questions, comments, and/or concerns with the change order request please feel free to call me at 916-607-4558.

Sincerely,

**McGuire & Hester**

*Arnie Garcia*

Arnie Garcia  
Project Engineer



**CITY OF PLACERVILLE  
ENGINEERING DIVISION**  
Project Number: 40604 Fed. Proj. No.: BRLO 5015 (009)

**FIELD CHANGE DIRECTIVE #18**

**PROJECT: Blairs Lane Bridge Replacement**

**CONTRACTOR: McGuire and Hester**

**FIELD CHANGE NO.: 18**

**RESIDENT ENGINEER: Carl A. Sloan, PE**

**DATE: 12/12/2016**

**DESCRIPTION OF CHANGE:**

Install 2 each square 10-1/4" x 10-1/4" Drainage inlets, or similar, and approximately 40 linear feet of 4" schedule 80 PVC pipe as shown in the attached drawings. Location of the drainage inlets and the pipe will be determined in the field by the engineer.

**METHOD OF PAYMENT: Contract Unit Price, Lump Sum, or Force Account**

Time and Material

**REASON FOR CHANGE:**

The current AC conform with the driveway at Valero will result in a low area which will pond water. This drainage system will remove the water and transport it to the drainage inlet.

WILL A FORMAL CONTRACT CHANGE ORDER BE ISSUED FOR THIS WORK? YES  NO  Pending

REFER TO DRAWING PAGE OR SHEET: See attached sketch. SECTION OR DETAIL: N/A

REFER TO SPECIFICATION:

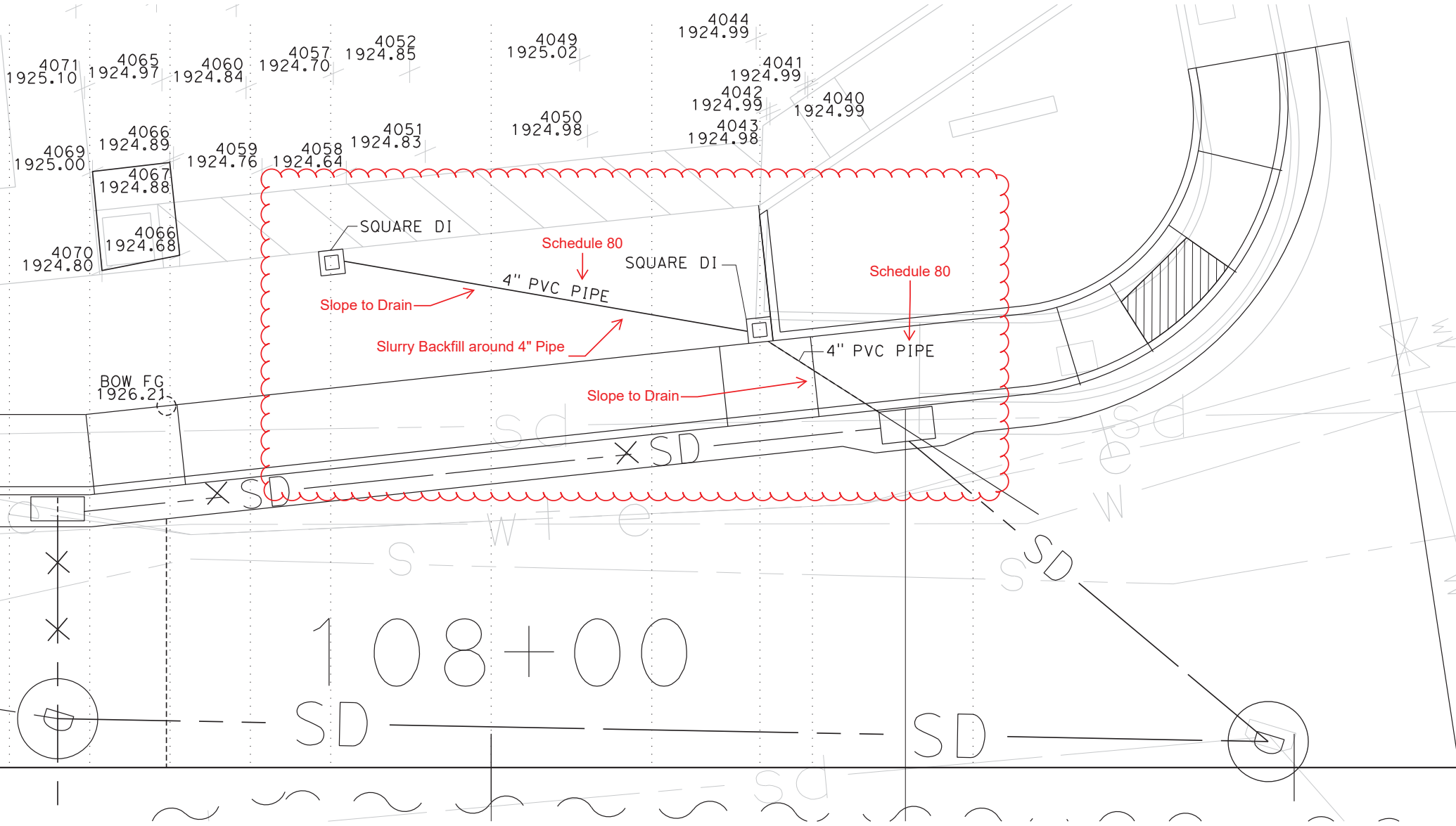
WILL ADDITIONAL DRAWINGS BE NECESSARY? YES  NO  ASSIGNED NO. OF DRAWINGS

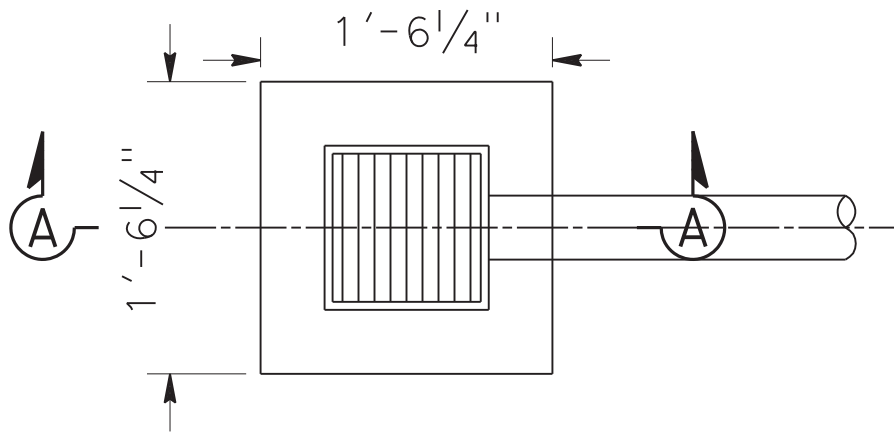
It is understood and mutually agreed that this Field Change Directive Form is to be used only to record minor changes, which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any changes involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed by the City and the Contractor.

**CITY REPRESENTATIVE:**

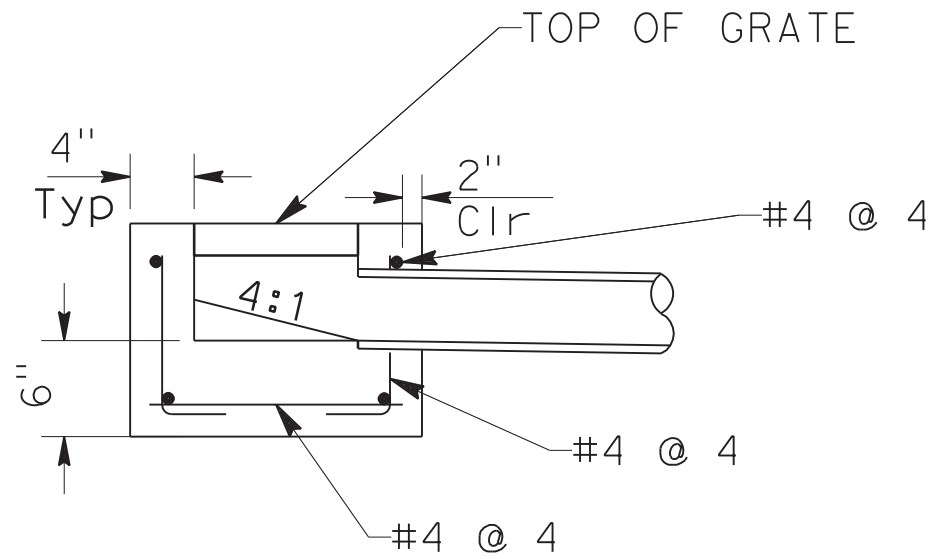
BY: Carl A. Sloan, PE, UNICO Engineering, Inc.

TITLE: Resident Engineer





SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE

 <p>McGuire and Hester  1016 N. Market Blvd  Sacramento, CA 95834  Phone: 916-372-8910  Fax: 916-372-8913</p>	<h2 style="text-align: center;">REQUEST FOR INFORMATION</h2> <p style="text-align: right;">Request No.: <b>033</b></p> <p>Title: <b>Caltrans Driveway</b>  Requested By: <b>Arnie Garcia</b></p> <p>Date: <b>12/07/2016</b></p>
<p>To: <b>City of Placerville</b>  <b>3101 Center Street</b>  <b>Placerville, CA 95667</b></p> <p>Attn: <b>Carl Sloan (UNICO Engineering)</b>  <b>916-218-8432 <a href="mailto:Carl@unicoengineering.com">Carl@unicoengineering.com</a></b></p>	<p>Project: <b>Blairs Lane Bridge Replacement</b></p> <p>Project No.: <b>M&amp;H #3926</b>  <b>Placerville #40604</b></p>
<p>Spec. Section:  Page No.:</p>	<p>Drawing No.: Sheet 6  Detail No.:</p>

**Please provide the following information:**

McGuire and Hester during our grading operations identified an issue with the existing conform grades at the Caltrans Driveway. Attached you'll find a plan showing the existing elevations for review.

Please provide direction on The City of Placerville would like McGuire and Hester to proceed with the installation of AC pavement to allow for drainage.

<p>Reply Required by: <b>12/8/2016</b></p>	<p>By: <b>Arnie Garcia</b>  Title: <b>Project Engineer</b></p>
--	--

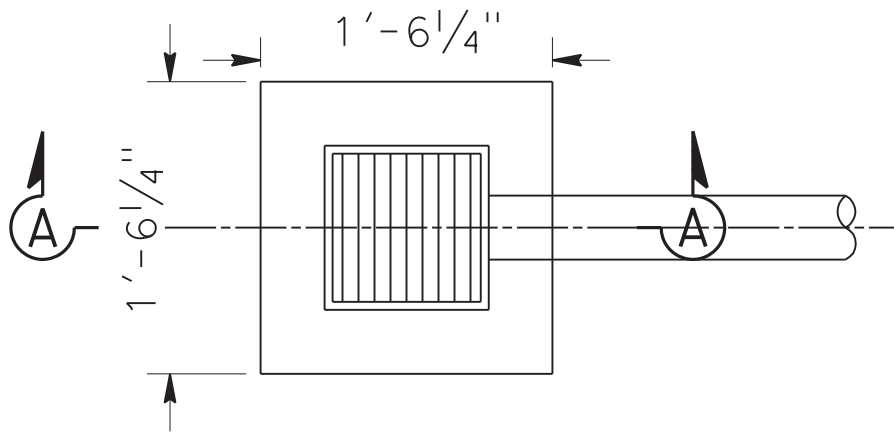
**Response:**

Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

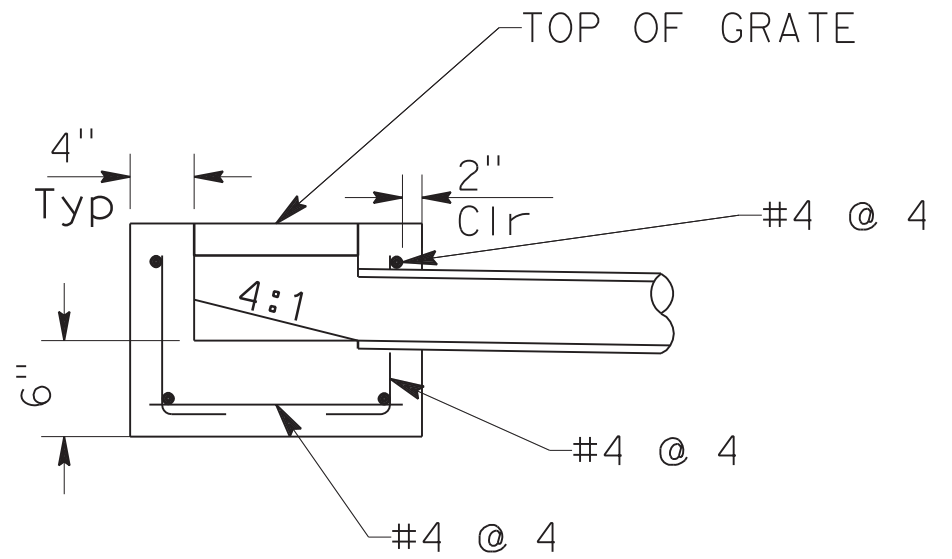
See attached detail for the DI.

<p>Date:</p>	<p>By:</p>
<p>cc:</p>	<p>Title:</p>






SQUARE DI  
 10-1/4" x 10-1/4"  
 GRATE (TYPE B)



SECTION A-A  
 NO SCALE


## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Valero Driveway Mod.								Change Order <b>028</b> Billing Number <b>132.0</b> Report Date 12/06/2016 Perform Date 12/06/2016			
<b>Labor Charges</b>								<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	80.87	
L01 4273	R Krug	0.50			61.210			30.61	SC 12.00%	9.70	
L02 4948	H Meza	1.00			50.260			50.26	OT Labor	0.00	
<b>Equipment Charges</b>								<b>Subtotal Labor</b>		90.57	
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00	
E01 02292	Ford F-250 Utility Pickup	0.50			22.760			11.38	Other Expenses	0.00	
								MU 35.00%		<u>31.70</u>	
								<b>Labor Total</b>		<b>122.27</b>	
								<b>Equipment Charges</b>			
								Subtotal		11.38	
								MU 15.00%		<u>1.71</u>	
								<b>Equipment Total</b>		<b>13.09</b>	
								<b>Material Charges</b>			
								<b>Subcontract Charges</b>			
								<b>Activity Total</b>		<b>135.36</b>	
								<b>Bill Subtotal</b>		<b>135.36</b>	
								<b>Bill Total +</b>		<b>135.36</b>	
 <b>McGuire and Hester</b>  Job Contact: Hugo Gutierrez (916) 873-2690								Accepted:  Customer: _____ Date: _____  Contractor: _____ Date: _____		Page <u>1</u>	





## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans & Valero							Change Order <b>028</b> Billing Number <b>133.0</b> Report Date 12/12/2016 Perform Date 12/12/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	1,722.54
L01 4273	R Krug	6.00			61.210			367.26	SC 12.00%	206.71
L02 7359	C Smith	6.00			75.100			450.60	OT Labor	0.00
L03 1227	JA Day II	6.00			50.260			301.56	Subtotal Labor	1,929.25
L04 6728	E Ramirez	6.00			50.260			301.56	Subsistence	0.00
L05 4948	H Meza	6.00			50.260			301.56	Other Expenses	0.00
<b>Equipment Charges</b>									Other Expenses	0.00
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	MU 35.00%	<u>675.23</u>
E01 02292	Ford F-250 Utility Pickup	6.00			22.760			136.56	Labor Total	<b>2,604.48</b>
E02 07049	Cat 420E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72		
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									<b>Equipment Charges</b>	
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	Subtotal	567.28
M01 5119203	12/12/2016	Ferguson Enterprises / Material Buy			1.000 LS	387.15000		387.15	MU 15.00%	<u>85.09</u>
M02 5122837	12/12/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	23.12000		23.12	Equipment Total	<b>652.37</b>
M03 90085	12/12/2016	Syar Concrete LLC / Slurry Buy			1.000 LS	434.17000		434.17		
M04 0000265561	12/12/2016	Home Depot / Material Buy - Concrete Mix			1.000 LS	29.81000		29.81	<b>Material Charges</b>	
M05 0000198929	12/12/2016	Home Depot / Material Buy - Fittings			1.000 LS	10.12000		10.12	Subtotal	1,629.58
M06 17613035112	12/12/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	745.21000		745.21	MU 15.00%	<u>244.44</u>
									Material Total	<b>1,874.02</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>5,130.87</b>
									Bill Subtotal	<b>5,130.87</b>
									Bill Total +	<b>5,130.87</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____		Page <u>1</u>	
							Contractor: _____ Date: _____			



# EXTRA WORK REPORT

## CONSTRUCTION COMPANY

M&H JOB NO: 3926  
 EXTRA WORK ORDER NO: 9830028  
 DATE OF REPORT: 12-12-16  
 DATE PERFORMED: 12-12-16

TO: CITY OF PLACERVILLE  
 PROJECT: BLAZER LANE B.R.  
 DESCRIPTION OF WORK: INSTALL 3 ORANGE INLETS AND RUN  
 PIPE CONNECTING TO NEW DT'S 2 @ VALERO  
 AND 1 @ CAL TRANS

### SUMMARY OF LABOR AND EQUIPMENT

EMPL #	EMPLOYEE NAME	EQ #	EQ DESCRIPTION	TRADE	HOURS
4273	ROGER KRUG	02292	F-250 PU	LABOR Foreman	6
7359	CURTIS SMITH			Operator	6
1227	JESSE DAY			LABOR	6
6728	ERIC RAMONER			LABOR	6
4948	HUMBERTO MEZA			LABOR	6
		07049	420 E BACKHOE		8

### SUMMARY OF MATERIAL & SPECIALTY FORCES

- 180 LF. SCH. 80 4" PIPE
  - 2 yds 6sack SAND SWEEP
  - 10 BAGS OF CONCRETE MIX
  - 2 BAGS GROUT
  - 45° & 22° FITTINGS (1 EACH)
  - 3 20" x 20" CAL TRANS TRAFFIC RATED INLETS
- LOWEST REPAIR MATERIAL

Roger Krug  
 McGuire & Hester Representative

John Hester 12/13/16  
 Work Authorized by / Date



FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5119203	611331	1

Please refer to Invoice Number when making payment and remit to:

**TOTAL DUE ---> 387.15**

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**

MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**

COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIRS LN	12/13/2016	151996
Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount	
160	160	P40BEPP20	4X20 FT PVC S40 BE PIPE	224.045	C	358.47	
<b>Invoice Sub-Total</b>						<b>358.47</b>	
<b>Tax</b>						<b>28.68</b>	
<b>Total Amt</b>						<b>387.15</b>	

**TOTAL DUE ---> 387.15**

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.  
 WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

B-133

FEI PLACERVILLE #610  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

ACCEPT B/O = Y  
SHOWROOM = N  
SOURCE = SOE  
IB FRT = N 0.0  
OB SHP = N 0.0  
12 DEC 2016 11:26

PH: 530-622-3281 FAX: 530-622-2491  
ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

STOCK SALES ORDER

WRITER SALESMAN  
SHIP 679  
TAG PO. NO.

5110203	12/12/16	610	610																						
CUSTOMER NO.	CUSTOMER ALPHA	CONTRACT NO.	BID NO.	ORDER DATE	ORDERED BY	INSTRUCTIONS														OML CONTACT					
511931	MCGUITREAN		R397376	12/09/16	ARMIE															Garra Woods					
SOLD TO MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603												SHIP TO COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003		SHIP VIA MCI INTL CALL						ROUTE NO.		RUN NO.		DEPART	
CUST PH: 510-622-7676												SHIP WT.		SHIP DATE		DELIVERED BY		PACKED BY		CHECKED BY					
CUSTOMER P.O. NO.		JOB NAME			ATTN:			PCS		BAGS		BOXES		CRATES		LENGTHS		BUNDLES		ROUTE DESC.					
3926		RIGATES LM																							

LINE	ORDER QTY	SHIP QTY	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	PO. NO.	aisle loc
1	150	150	0	PA0REPP20	4X70 FT PVC 640 RE PIPE	224.045	C		210.5 lb	
<p>NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.</p> <p>SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.</p>										

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.					SUBTOTAL		INBOUND FREIGHT		OUTBOUND SHIPPING		TAX		LESS DEPOSIT		TOTAL DUE	
SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.																

CUSTOMER'S SIGNATURE: *[Signature]* *Curtis Smith*

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

TERMS: \_\_\_\_\_  
CUSTOMER COPY



FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
 From: Aaron Imschweiler  
 Comments:

Please Contact With Questions:  
 530-622-3281

Invoice Number	Customer	Page
5122837	611331	1

Please refer to Invoice Number when making payment and remit to: TOTAL DUE ---> 23.12

FERGUSON ENTERPRISES, INC #686  
 PO BOX 740827  
 LOS ANGELES, CA 90074-0827

**Sold To:**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**Ship To:**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	3926	12/13/2016	151996
Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount	
1	1	P40S4P	4 PVC S40 SXS 45 ELL	15.755	EA	15.76	
1	1	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	5.65	
<b>Invoice Sub-Total</b>						<b>21.41</b>	
<b>Tax</b>						<b>1.71</b>	
<b>Total Amt</b>						<b>23.12</b>	

TOTAL DUE ---> 23.12

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
 GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.  
 WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.





SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

**RECEIVED**

DEC 15 2016

INVOICE  
 90085

DATE  
 12/12/2016

MCGUIRE AND HESTER

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

=====  
 Customer Code      Project Code      Purchase Order      Job Number      Order  
 MCGUIREHES      4584      P3926-08      3926      50  
 =====

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	cy	95.00	190.00
12/12	41024305	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/12	41024305	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

TOTAL YARDS    TAXABLE AMOUNT    8.000    TAX    NON-TAXABLE  
 2.00                    402.00                    32.17                    0.00

=====  
 DISCOUNT                    TAX ON  
 AMOUNT                    DISCOUNT                    IF PAID BY                    YOU MAY DEDUCT  
 2.00                    0.16                    01/10/2017                    2.16

TOTAL DUE  
 \$434.17

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

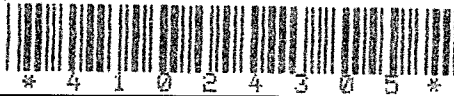
WHEN YOU NEED A LOAD, WE HIT THE ROAD!





B-133

**SYAR CONCRETE LLC**  
 P.O. Box 2700  
 Napa, CA 94558  
 Phone # 877-792-7649



DATE 12/12/2016	TICKET # 41024305
P.O. # P3926-08	JOB # 3926
SYAR ORDER # 50	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVERTO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 3527 Durock Rd.
--	---	--

START BATCH/MIX CYCLE 11:35	LEAVE PLANT 11:55	ARRIVE JOB 12:20	START POUR 12:21	FINISH POUR 12:25	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:10	CU. YDS. ORDERED 2	CU. YDS. DELIVERED 2	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 3.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION-SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
2.00	SS060NR9	6 Sack Sand Slurry		yd	
1.00	157015	ENVIRONMENTAL CHARGE		ea	

MINIMUM LOAD CHARGE  
 HWY 50 BROADWAY @ BLAIRS LANE

TRUCK#	DRIVER	PREVIOUS TRUCK
B075	JEFF WINGE	

BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED: \_\_\_\_\_

CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.

Signed: \_\_\_\_\_

WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE				SUB TOTAL TAX <b>TOTAL</b>
REQUESTOR'S NAME				
FULL LOAD (GALLONS)	3/4 LOAD (GALLONS)	1/2 LOAD (GALLONS)	1/4 LOAD (GALLONS)	GR TOTAL

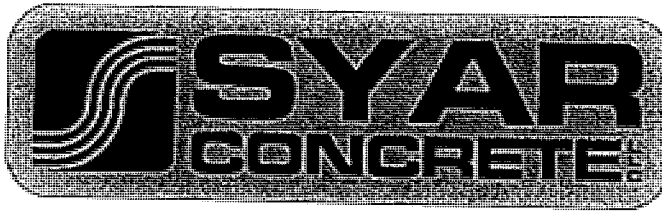
**WEIGHMASTER CERTIFICATE**  
 THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

Truck	Driver	User	Disp	Ticket Num	Ticket ID	Time	Date
B075	1034	user		41024305	41218	11:35	12/12/16
Load Size	Mix Code	Returned	Qty	Mix Age	Seq	Load ID	
2.00	CYDS SS060NR9				D	24301	
Material	Design Qty	Required	Batched	% Moisture	Actual Mat		
CEMII/V	565.0 lb	1130.0 lb	1130.0 lb				
CONSAND	2544 lb	5321 lb	5300 lb	4.57% M	28 gl		
WATER	60.00 GL	40GL	40GL				
Actual	Nue Batches: 1				Manual	11:35:20	
Load Total:	6430 lb	Design 0.885	Water/Cement 0.885 T	Design 120.0 gl	Actual 27.8 gl	To Add: 92.2 gl	
Slump:	3.00 in	# Water in Truck: 0.0 gl	Adjust Water: 0.0 gl	/ Load	Tric Water:-47.0 gl/ CYD		

320771

No. #: 41024305



B-133

CERTIFICATE OF COMPLIANCE

READY MIX CONCRETE

TO: Mc Guire & Hester

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

MIX ID: CONTRACT NUMBER: Blair Rd. Placerville

CEMENT BRAND: Nevada Cement TERMINAL LOCATION: Sacramento TYPE: II

CHEMICAL ADMIXTURE BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

BRAND: MANUFACTURER: TYPE:

[checked] CHECK BOX IF A CHEMICAL ADMIXTURE WAS NOT USED

MINERAL ADMIXTURE

MANUFACTURER: CLASS: F

[checked] CHECK BOX IF A MINERAL ADMIXTURE WAS NOT USED

DELIVERY DATE: 12-12-2016

LIST DELIVERY TAG NUMBERS:

41024305

AUTHORIZED SIGNATURE: [Signature]

B-133



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00002 65561 12/12/16 08:55 AM  
CASHIER SARAH

0000-533-829 80# SAKRETE <A>  
80LB SAKRETE CONCRETE MIX  
8@3.45 27.60

SUBTOTAL 27.60  
SALES TAX 2.21  
TOTAL \$29.81

XXXXXXXXXXXX6209 MASTERCARD 29.81  
AUTH CODE 251476/2022473 TA

P.O.#/JOB NAME: 3926



1085 02 65561 12/12/2016 1916

RETURN POLICY DEFINITIONS  
POLICY ID DAYS POLICY EXPIRES ON  
A 1 90 03/12/2017  
THE HOME DEPOT RESERVES THE RIGHT TO  
LIMIT / DENY RETURNS. PLEASE SEE THE  
RETURN POLICY SIGN IN STORES FOR



More saving.  
More doing.<sup>SM</sup>

B-133

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM  
CASHIER SANDRA

820633976127	1" SLIDE RPR <A>	4.13
	1" PVC SLIDE REPAIR COUPLING	
049081137588	1-1/4 CPLING <A>	
	1-1/4" PVC COUPLING SXS	
2@0.73		1.46
049081133160	PVC BUSHING <A>	1.26
	1-1/4" X 1" PVC BUSHING SPGXS	
0000-193-712	PVC40 PE PIPE <A>	2.53
	3/4" X 10' PVC40 PE PIPE	

	SUBTOTAL	9.38
	SALES TAX	0.74
	TOTAL	\$10.12
XXXXXXXXXXXX6209	MASTERCARD	10.12
AUTH CODE 446043/2012228		TA

P.O.#/JOB NAME: 3926



1085 01 98929 12/12/2016 4291

RETURN POLICY DEFINITIONS		
POLICY ID	DAYS	POLICY EXPIRES ON
1	90	03/12/2017

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
 McClellan, CA 95652-2027  
 USA  
 Tel: 1-855-284-1127  
 Fax: 916-640-8864  
 www.corix.com

**INVOICE**

**Invoice Number:** 17613035112

**Invoice Date:** 12/14/16

**Page:** 1

**Bill To:** MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603  
 USA

**Ship To:** Corix Water Products (US) Inc.  
 4522 PARKER AVE STE 700  
 MCCLELLAN, CA 95652-2027  
 USA

<b>Cust No.</b> MCGHES	<b>Ship Via</b> CUSTOMER PICK UP	<b>P.O. Date</b> 12/12/16
<b>Terms</b> 2% 10th next month net 30th next month	<b>Ship Date</b> 12/12/16	<b>P.O. Number</b> 3926
<b>Due Date</b> 01/30/17	<b>SalesPerson</b> Dale Rasmussen	<b>Our Order No.</b> 17612036919
<b>PST Exempt No.</b>	<b>Creator</b> JOGONZALEZ	<b>Cust Job Name</b> Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>	<b>Posted By</b> NVERNON	<b>Job No.</b>

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	3	3	130.00	390.00
WWV1271W420	V12 STEEL GRATE HD	EA	3	3	100.00	300.00

\*\*\* If Paid by 01/10/17, discount available = \$13.80 \*\*\*

<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
690.00	0.00

<b>Subtotal:</b>	<b>690.00</b>
Invoice Discount:	0.00
Total Sales Tax:	55.21

**Total:** 745.21

**Please remit payment to:** *Corix Water Products (US) Inc.  
 #100, 11020 W. PLANK COURT  
 Wauwatosa, WI 53226  
 USA*

Interest is charged at 2% per month on all overdue amounts

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans 7 Valero							Change Order <b>028</b> Billing Number <b>134.0</b> Report Date 12/13/2016 Perform Date 12/13/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	445.88
L01 4273	R Krug	4.00			61.210			244.84	SC 12.00%	53.50
L02 6728	E Ramirez	4.00			50.260			201.04	OT Labor	0.00
<b>Equipment Charges</b>							<b>Equipment Charges</b>			
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	499.38
E01 02292	Ford F-250 Utility Pickup	4.00			22.760			91.04	Subsistence	0.00
E02 05034	Compressor P185R I-R	8.00			17.330			138.64	Other Expenses	0.00
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>										
Number	Date	Vendor Name and Description			Units	Unit Price	Extended			
M01 0000100339	12/13/2016	Home Depot / Material Buy - Concrete And Grout			1.000 LS	40.34000	40.34			
									<b>Material Charges</b>	
									Subtotal	40.34
									MU 15.00%	<u>6.05</u>
									Material Total	<b>46.39</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>984.70</b>
									Bill Subtotal	<b>984.70</b>
									Bill Total +	<b>984.70</b>
									Page	1



**McGuire and Hester**

Job Contact: Hugo Gutierrez (916) 873-2690

Accepted:

Customer:

Date:

Contractor:

Date:



B-134



More saving.  
More doing.<sup>SM</sup>

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 12/13/16 07:30 AM  
CASHIER SANDRA

0000-842-303 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
764661163503 50#GROUT <A>	
50LB NON-SHRINK CONSTRUCTION GROUT	
2@14.70	29.40

SUBTOTAL	37.36
SALES TAX	2.98
TOTAL	\$40.34
XXXXXXXXXXXX6213 MASTERCARD	40.34
AUTH CODE 733631/1012282	TA

NEW LOWER PRICE (NLP)SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926

PRO XTRA SPEND THIS VISIT:	\$37.36
2016 PRO XTRA SPEND 12/12:	\$6,273.35


As of 12/13/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.

This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).





## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Caltrans Driveway								Change Order <b>028</b> Billing Number <b>135.0</b> Report Date 12/19/2016 Perform Date 12/19/2016		
<b>Labor Charges</b>								<b>Labor Charges</b>		
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00
L03 1227	JA Day II	1.00			50.260			50.26		
<b>Equipment Charges</b>								<b>Equipment Charges</b>		
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	208.96
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Subsistence	0.00
E02 09043	John Deere 210 LJ Skip Loader	1.00			57.010			57.01	Other Expenses	0.00
E03 15026	CB 224E 47" Double Drum AC 06	1.00			56.810			56.81	MU 35.00%	<u>73.14</u>
								Labor Total		<b>282.10</b>
								<b>Equipment Charges</b>		
								Subtotal		136.58
								MU 15.00%		<u>20.48</u>
								Equipment Total		<b>157.06</b>
								<b>Material Charges</b>		
								<b>Subcontract Charges</b>		
								Activity Total		<b>439.16</b>
								Bill Subtotal		<b>439.16</b>
								Bill Total +		<b>439.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690								Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>136.0</b> Report Date 12/20/2016 Perform Date 12/20/2016					
<b>Labor Charges</b>							<b>Labor Charges</b>					
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	273.20		
L01 4273	R Krug	2.00			61.210			122.42	SC 12.00%	32.79		
L02 7560	K Sullivan	1.50			50.260			75.39	OT Labor	0.00		
L03 3844	C Jones	1.50			50.260			75.39				
<b>Equipment Charges</b>									Subtotal Labor	305.99		
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00		
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	Other Expenses	0.00		
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									MU 35.00%	<u>107.09</u>		
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	Labor Total <b>413.08</b>				
M01 5136232	12/20/2016	Ferguson Enterprises / Material Buy - Fittings			1.000 LS	70.47000	70.47	<b>Equipment Charges</b>				
M02 17613035655	12/20/2016	Corix Water Products / Material Buy - Drain Box			1.000 LS	248.41000	248.41	Subtotal			45.52	
									MU 15.00%	<u>6.83</u>		
									Equipment Total <b>52.35</b>			
									<b>Material Charges</b>			
									Subtotal			318.88
									MU 15.00%	<u>47.83</u>		
									Material Total <b>366.71</b>			
									<b>Subcontract Charges</b>			
									Activity Total <b>832.14</b>			
									Bill Subtotal <b>832.14</b>			
									Bill Total <b>+ 832.14</b>			
									Page <u>1</u>			



**McGuire and Hester**

Job Contact: Hugo Gutierrez (916) 873-2690

Accepted:

Customer:

Date:

Contractor:

Date:





FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Deliver To: jobs /c rosg/socal  
From: Aaron Imschweiler  
Comments:

Please Contact With Questions:  
530-622-3281

Invoice Number	Customer	Page
5136232	611331	1

Please refer to Invoice Number when making payment and remit to:

TOTAL DUE ---> 70.47

FERGUSON ENTERPRISES, INC #686  
PO BOX 740827  
LOS ANGELES, CA 90074-0827

Sold To:

MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603

Ship To:

COUNTER PICK UP  
2850 COLD SPRINGS RD  
PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number	Sales Person	Job Name	Invoice Date	Batch
610	610	CA09PL	3926	679	BLAIR'S & BROADWAY	12/20/2016	152362

Ordered	Shipped	Item Number	Description	Unit Price	UM	Amount
1	1	H25515	4 OZ PRO-POXY EPOXY 20	5.990	EA	5.99
1	1	P40SCP	4 PVC S40 SXS COUP	5.583	EA	5.58
1	1	O31020	32 OZ PVC MED CLR CMNT	20.663	EA	20.66
2	2	PSDTC260S	2X60 DUCT TAPE PREM GRD SILV	10.860	EA	21.72
2	2	MUL040964	4 PVC SWR SW HXH 22-1/2 ELL	5.650	EA	11.30

**Invoice Sub-Total** 65.25  
**Tax** 5.22  
**Total Amt** 70.47

<b>TOTAL DUE ---&gt;</b>	<b>70.47</b>
--------------------------	--------------

ALL ACCOUNTS ARE DUE AND PAYABLE PER THE CONDITIONS AND TERMS OF THE ORIGINAL INVOICE. ALL PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE AT THE MAXIMUM RATE ALLOWED BY STATE LAW PLUS COSTS OF COLLECTION INCLUDING ATTORNEY FEES IF INCURRED. FREIGHT TERMS ARE FOR OUR DOCK UNLESS OTHERWISE SPECIFIED ABOVE. COMPLETE TERMS AND CONDITIONS ARE AVAILABLE UPON REQUEST OR CAN BE VIEWED ON THE WEB AT [http://woiseleyna.com/terms\\_conditions](http://woiseleyna.com/terms_conditions)  
GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKET UNLESS NOTED OTHERWISE.

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH \*NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

FEI PLACERVILLE #610  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

PH: 530-622-3281 FAX: 530-622-2491  
 ORDER NO. REQUIRED DATE SHIP WHS. SELL WHS.

**STOCK SALES ORDER**

SHOWROOM = N  
 SOURCE = SOE  
 IB FRT = N 0.1  
 OB SHP = N 0.1  
 20 DEC 2016 16:11:

WRITER SALESMAN  
 AT 679

TAG PO. NO.

OML CONTACT  
 Aaron Tschweiler  
 VENDOR

VENDOR PO. NO.

ROUTE NO. RUN NO. DEPART

ROUTE DESC.

PACKED BY CHECKED BY

5136232 12/20/16 610 610  
 CUSTOMER NO. CUSTOMER ALPHA CONTRACT NO. BID NO. ORDER DATE ORDERED BY

**SOLD TO**  
 MCGUIRE AND HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND, CA 94603

**SHIP TO**  
 COUNTER PICK UP  
 2850 COLD SPRINGS RD  
 PLACERVILLE, CA 95667-4003

INSTRUCTIONS

SHIP VIA

PCS BAGS BOXES CRATES LENGTHS BUNDLES

SHIP WT. SHIP DATE DELIVERED BY

CUSTOMER PO. NO. JOB NAME ATTN:

3926 BLAIR'S & BROADWAY

LINE	ORDER QTY	SHIP QTY	RO QTY	ITEM CODE	DESCRIPTION	UNIT PRICE	U/M	TOTAL	P.O. NO.	aisle loc
1	1	1	0	H25515	4 OZ P80-POXY EPOXY 20	5.990	EA			CTRC
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					0.3 lb
2	1	1	0	P405CP	4 PVC 940 5X5 COUP	5.583	EA			X18D
										1.0 lb
3	1	1	0	031020	32 OZ PVC MED CLR CMNT	20.663	EA			XE10A
					MATERIAL SAFETY DATA SHEETS ARE AVAILARLE UPON REQUEST					2.3 lb
4	2	2	0	P50TC260S	2X60 DUCT TAPE PREM GRD STLY	10.880	EA			XE11A
										1.5 lb
5	2	2	0	MW 040984	4 PVC SHR 5W HXH 22-1/2 ELL	5.650	EA			XW3D
										0.5 lb

NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION. RETURNED MATERIALS SUBJECT TO HANDLING CHARGES.  
 SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY.

SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE

CUSTOMER'S SIGNATURE: \_\_\_\_\_

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

TERMS:

\*CONTINUED\*

CUSTOMER COPY

**Corix Water Products (US) Inc.**

4522 PARKER AVE STE 700  
McClellan, CA 95652-2027  
USA  
Tel: 1-855-284-1127  
Fax: 916-640-8864  
www.corix.com

RECEIVED INVOICE

DEC 27 2016



Invoice Number: 17613035655  
Invoice Date: 12/21/16  
Page: 1

**Bill To:** MCGUIRE AND HESTER  
9009 RAILROAD AVENUE  
OAKLAND, CA 94603  
USA

**Ship To:** BLAIRS LANE BRIDGE  
1312 BROADWAY  
PLACERVILLE, CA 95667  
USA

<b>Cust No.</b> MCGHES	<b>Ship Via</b> OUR TRUCK	<b>P.O. Date</b> 12/20/16
<b>Terms</b> 2% 10th next month net 30th next month	<b>Ship Date</b> 12/20/16	<b>P.O. Number</b> 3926
<b>Due Date</b> 01/30/17	<b>SalesPerson</b> Dale Rasmussen	<b>Our Order No.</b> 17612037662
<b>PST Exempt No.</b>	<b>Creator</b> JOGONZALEZ	<b>Cust Job Name</b> Blairs Lane Bridge Replacement
<b>GST Exempt No.</b>	<b>Posted By</b> NVERNON	<b>Job No.</b>

Item No.	Description	Unit	Order Qty	Quantity	Unit Price	Total Price
WWV12	V12 DRAIN BOX H20	EA	1	1	130.00	130.00
WWV1271W420	V12 STEEL GRATE HD	EA	1	1	100.00	100.00

\*\*\* If Paid by 01/10/17, discount available = \$4.60 \*\*\*


<b>Taxable Amount</b>	<b>Tax Exempt Amount</b>
230.00	0.00

<b>Subtotal:</b>	<b>230.00</b>
Invoice Discount:	0.00
Total Sales Tax:	18.41
<b>Total:</b>	<b>248.41</b>

**Please remit payment to:** *Corix Water Products (US) Inc.*  
*#100, 11020 W. PLANK COURT*  
*Wauwatosa, WI 53226*  
*USA*

Interest is charged at 2% per month on all overdue amounts

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway							Change Order <b>028</b> Billing Number <b>137.0</b> Report Date 12/21/2016 Perform Date 12/21/2016			
<b>Labor Charges</b>							<b>Labor Charges</b>			
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	563.81
L01 4273	R Krug	1.00	1.00		61.210	80.710		141.92	SC 12.00%	67.67
L02 7560	K Sullivan	5.00			50.260			251.30	OT Labor	80.71
L03 3844	C Jones	5.00			50.260			251.30	SC 12.00%	9.69
									Subtotal Labor	721.88
<b>Equipment Charges</b>									Subsistence	0.00
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Other Expenses	0.00
E01 02292	Ford F-250 Utility Pickup	2.00			22.760			45.52	MU 35.00%	<u>252.66</u>
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>									Labor Total	<b>974.54</b>
Number	Date	Vendor Name and Description			Units	Unit Price		Extended	<b>Equipment Charges</b>	
M01 90281	12/21/2016	Syar Concrete LLC / Material Buy - Slurry			1.000 LS	382.87000		382.87	Subtotal	45.52
M02 0005625058	12/21/2016	Home Depot / Material Buy - Concrete & Mortar Bags			1.000 LS	30.41000		30.41	MU 15.00%	<u>6.83</u>
									Equipment Total	<b>52.35</b>
									<b>Material Charges</b>	
									Subtotal	413.28
									MU 15.00%	<u>61.99</u>
									Material Total	<b>475.27</b>
									<b>Subcontract Charges</b>	
									Activity Total	<b>1,502.16</b>
									Bill Subtotal	<b>1,502.16</b>
									Bill Total +	<b>1,502.16</b>
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____ Contractor: _____ Date: _____		Page <u>1</u>	







SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

INVOICE  
 90281

DATE  
 12/21/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	10

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/21	41024366	1.50	SS060NR9	SAND SLURRY	cy	95.00	142.50
12/21	41024366	1.00	157005	MINIMUM LOAD CHA	ea	200.00	200.00
12/21	41024366	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

RECEIVED  
 DEC 27 2016  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8.000	TAX	NON-TAXABLE	
1.50	354.50		28.37	0.00	
					TOTAL DUE
					\$382.87
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
1.50	0.11	01/10/2017	1.61		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!



EW-DI'S

B-137

**SYAR CONCRETE LLC**

P.O. Box 2700  
Napa, CA 94558  
Phone # 877-792-7649



DATE 12/21/2016	TICKET # 41024366
PO. # P3926-09	JOB # 3926
SYAR ORDER # 10	DIR#:

SOLD TO MCGUIREH MC GUIRE & HESTER	DELIVER TO BLAIRS LANE BRIDGE REPLAC BLAIRS & BROADWAY PLACERVILLE	PLANT CODE 41 Cameron Pa PLANT LOCATION 8527 Durock Rd.
--	--	--

START BATCH/MIX CYCLE 11:45	LEAVE PLANT 12:00	ARRIVE JOB 12:20	START POUR 12:25	FINISH POUR 12:30	WASHOUT	LEAVE JOB
SCHEDULED DELIVERY TIME 12:30	CU. YDS. ORDERED 1.5	CU. YDS. DELIVERED 1.5	LOAD # 1	MIX DESIGN # SS060NR9	SLUMP 4.00 in	USAGE

QUANTITY	PRODUCT CODE	PRODUCT DESCRIPTION: SEE BATCH DATA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
1.50	SS060NR9	6 Sack Sand Slurry	yd		
1.00	157015	ENVIRONMENTAL CHARGE	ea		

MINIMUM LOAD CHARGE  
HWY 50BROADWAY EXIT RIGHT ON BLAIRS LANE

TRUCK # 8053	DRIVER MARK WOONER	PREVIOUS TRUCK
BUYER IS RESPONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight of this truck could cause damage to the premises and/or adjacent property if load is placed where you desire. Your signature below is a RELEASE relieving this supplier and its affiliates from any responsibility from damage that may occur on this premises and/or adjacent property such as curbs, sidewalks, driveways, underground improvements, buildings, etc. due to delivery of this material. You also agree to help the driver remove mud from the wheels of his/her vehicle so that it will not litter the public street(s). Additionally, the undersigned agrees to indemnify and hold harmless the driver of this truck and this supplier and its affiliates for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.		WASHOUT USED YES <input type="checkbox"/> NO <input type="checkbox"/>
SIGNED: _____		DRUM COUNTER
CUSTOMER HAS RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITIONS. CUSTOMER AGREES TO THE TERMS AND CONDITIONS STATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE FRONT AND BACK OF THIS DELIVERY TICKET.		WATER ADDED AT CUSTOMER REQUEST EXCESSIVE WATER IS DETRIMENTAL TO CONCRETE PERFORMANCE
Signed: _____		REQUESTOR'S NAME
		FULL LOAD (GALLONS)
		3/4 LOAD (GALLONS)
		1/2 LOAD (GALLONS)
		1/4 LOAD (GALLONS)
		SUB TOTAL
		TAX
		<b>TOTAL</b>

**WEIGHMASTER CERTIFICATE**  
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy as prescribed by Chapter 7(commencing with Section 127000 of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Weighmaster: **ROBERT STACY**

Batch Data									
Truck	Driver	User	Disp	Ticket Num	Ticket ID	Time	Date		
8053	988	user		41024366	41279	11:49	12/21/16		
Load Size	Mix Code	Returned	Qty	Mix Age	Seq	Load ID			
1.50	CYDS SS060NR9				D	24366			
Material	Design Qty	Required	Batched	% Moisture	Actual Wat				
CEM II/V	565.0 lb	837.5 lb	340.0 lb		18 gl				
CONCRETE	2544 lb	3989 lb	3980 lb	4.00% M	39.00 gl				
WATER	60.00 GL	11.71 GL	39.00 GL +						
Actual	Num Batches: 1				Manual 11:49:27				
Load Total:	5135 lb	Design 0.886	Water/Cement 0.884 T		Design 90.0 gl	Actual 57.3 gl	To Add: 32.7 gl		
Slump:	4.00 in	# Water in Truck: 0.0 gl	Adjust Water: 0.0 gl	/ Load	Trim Water: -40.0 gl/ CYD				

320833



More saving.  
More doing.™

600 PLACERVILLE DRIVE  
PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM  
CASHIER SELF CHECK OUT

099713047358 TUB <A>	5.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <A>	
50LB FAST SETTING CONCRETE MIX	
2@3.98	7.96
NLP Savings \$1.40	
727096305559 RAPID MORTAR <A>	14.45
RAPID SET 55LB MORTAR MIX	

SUBTOTAL	28.16
SALES TAX	2.25
TOTAL	\$30.41

XXXXXXXXXXXX6213 MASTERCARD	30.41
AUTH CODE 201205/3564432	TA

NEW LOWER PRICE (NLP) SAVINGS \$1.40

PRO XTRA MEMBER STATEMENT

PRO XTRA ###-###-5097 SUMMARY  
THIS RECEIPT PO/JOB NAME: 3926

PRO XTRA SPEND THIS VISIT:	\$28.16
2016 PRO XTRA SPEND 12/20:	\$6,318.97


As of 12/21/2016 your Paint Rewards level is Pro Xtra Paint Rewards; Spend 2000.00 more in qualifying paint purchases to earn Bronze (10.0% off) on select paint items.

This purchase qualifies for FUEL DISCOUNTS and 60 DAYS TO PAY on The Home Depot Commercial Credit Card. Ask an Associate to learn more or go to [homedepot.com/financeoptions](http://homedepot.com/financeoptions).



1085 56 25058 12/21/2016 5739

## DAILY EXTRA WORK REPORT

<b>City Of Placerville</b> Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Drainage Modifications To Driveways							Change Order <b>028</b> Billing Number <b>143.0</b> Report Date 12/30/2016 Perform Date 12/30/2016				
<b>Labor Charges</b>							<b>Labor Charges</b>				
Labor ID	Employee Name	RT Hrs	OT Hrs	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57	
L01 4273	R Krug	1.00			61.210			61.21	SC 12.00%	22.39	
L02 7359	C Smith	1.00			75.100			75.10	OT Labor	0.00	
L03 7560	K Sullivan	1.00			50.260			50.26			
<b>Equipment Charges</b>							<b>Equipment Charges</b>				
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	208.96	
E01 02292	Ford F-250 Utility Pickup	1.00			22.760			22.76	Subsistence	0.00	
E02 02268	Ford F-150 2013 HD Pickup	1.00			22.760			22.76	Other Expenses	0.00	
E03 02211	Ford F250 2008 3/4 ton xcab	1.00			22.760			22.76	MU 35.00%	<u>73.14</u>	
<b>Material/Specialist Work/Lump Sum or Unit Price Payment</b>							<b>Material Charges</b>		Labor Total	<b>282.10</b>	
Number	Date	Vendor Name and Description			Units	Unit Price	Extended	<b>Equipment Charges</b>			
M01 90450	12/30/2016	Syar Concrete LLC / Concrete Buy			1.000 LS	117.72000	117.72	Subtotal			68.28
									MU 15.00%	<u>10.23</u>	
									Equipment Total	<b>78.51</b>	
									<b>Material Charges</b>		
									Subtotal	117.72	
									MU 15.00%	<u>17.66</u>	
									Material Total	<b>135.38</b>	
									<b>Subcontract Charges</b>		
									Activity Total	<b>495.99</b>	
									Bill Subtotal	<b>495.99</b>	
									Bill Total +	<b>495.99</b>	
 <b>McGuire and Hester</b> Job Contact: Hugo Gutierrez (916) 873-2690							Accepted: _____ Customer: _____ Date: _____		Page <u>1</u>		
							Contractor: _____ Date: _____				





SYAR CONCRETE LLC  
 PO BOX 2700  
 NAPA, CA 94558  
 (877) 792-7649

B-143

INVOICE  
 90450

DATE  
 12/30/2016

Sold To:  
 MC GUIRE & HESTER  
 9009 RAILROAD AVENUE  
 OAKLAND CA 94603

Ship To:  
 BLAIRS LANE BRIDGE REPLACEM  
 BLAIRS & BROADWAY PLACERVIL  
 PLACERVILLE CA

Page 1

Customer Code	Project Code	Purchase Order	Job Number	Order
MCGUIREHES	4584	P3926-08	3926	8

Date	Ticket #	Qty	Product Code	Product Description	Unit of Measure	Unit Price	Extended Price
12/30	41024436	7.00	RP060AR5	CONCRETE	cy	101.00	707.00
12/30	41024436	7.00	113065	SYAR SET 55	/y	8.00	56.00
12/30	41024436	1.00	157005	MINIMUM LOAD CHA	ea	80.00	80.00
12/30	41024436	37.00	157000	STANDBY CHARGE	ea	2.00	74.00
12/30	41024436	1.00	157015	ENVIRON CHARGE	ea	12.00	12.00

1 yard of concrete @ \$101.00 p/yd plus 8% tax  
 1yard of of concrete set 55 @ \$8.00 p/yd plus 8% tax  
 Total \$117.72

RECEIVED  
 JAN 05 2017  
 MCGUIRE AND HESTER

TOTAL YARDS	TAXABLE AMOUNT	8,000	TAX	NON-TAXABLE	TOTAL DUE
7.00	855.00		68.41	74.00	\$997.41
DISCOUNT AMOUNT	TAX ON DISCOUNT	IF PAID BY	YOU MAY DEDUCT		
7.00	0.53	01/10/2017	7.53		

TERMS: Discount Amount stated on this invoice is allowed if payment is made by the 10th day of the month following purchase. Discounts taken after that date will not be honored. Any invoice not paid in full by the last day of the month following purchase will be considered past due and subject to a service charge computed at the periodic rate of 1.50% per month (18% per annum).

WHEN YOU NEED A LOAD, WE HIT THE ROAD!