CITY OF	PLACERVILL	.E				Sheet	1	c	of 1			
CONTR	RACT CHA	ANGE ORDER	?	Change Requested by:	\boxtimes	City			Contrac	or		
CCO No. 11	Suppl. No.	Contract No. 40604	Project Blairs Lane B	Blairs Lane Bridge Replacement				Federal Project Number: BRLO-5015(009)				
то: Мс	Guire & H	lester, Inc.										
specification	ons for this cont	ract. NOTE: This c	hange order must be approved	s or do the following described wo by the City Council: gate between additional work at contr		Yes 🔀	<u> </u>	No				
account.)												
By reason	o of this order th	ne time of completion	Estimated Cost:	☐ Decrease ☐ Increa		Defe	<u>err</u>	ed_				
Submitte		o time or completion			aayo	<u>g. a </u>						
SIGNATU	11/1	en Neves	(PRINT NAME & Rebecca Ne	k TITLE) ves P.E., City Engineer		DA 12		/16				
Approved			·									
SIGNATU	RE		(PRINT NAME 8	,	DA	TE						
	. – –		Cleve Morris	s, City Manager								
SIGNATU		/ () /	(PRINT NAME 8	L TITLE)		DA	TE					
OIOIVATO	Resident Engineer 12/21/16				6							
				nd agree, if this proposal is approv						t,		
				services necessary for the work ab t sign acceptance of this order,								
requireme	nts of the spe	cification as to proc	eeding with the ordered work a	nd filing a written protest within	the tin	ne therein s	pec	cified.	•			
	or Acceptance	by										
SIGNATU	SIGNATURE (PRINT NAME & TITLE) DATE											



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.

1. Sh

TITLE: Resident Engineer



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

Project Title

M&H S# 069.

Blairs Lane Bridge Replacement

						Contract No.	40	604	M&H	Job#	39	26
Submitt	ted To):		Carl Sloan		Location		F	Placerville, CA			
Address	3:			549 Main Street			1st	_ 2nd _	3rc	l (other _	_
				Placerville, CA 95667		Sub/Vender						
Attentio	n:			Carl Sloan		Contact						
Phone: 916-218-8432			916-218-8432		Telephone			_	Sub/Ven	Subm'l#		
ACT	ION T	AKE	١	M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approve	ed			Subcontractor to Contractor								
AAN- Appr	oved as	Noted		Contractor to Owner	12/20/16			X				
RR- Revise	& Resu	bmit		Owner to Consultant								
R- Rejected	t			Consultant to Owner								
AR- Ackno	wledge l	Receipt	t	Owner to Contractor								
RWR- Retu	rn W/o F	Review		Contractor to Subcontractor								
A AAI	N RR	R	AR	Specification No.		1	Descrip	tion	ı	ı		
				Section 39-2.02		AC Pavin	g Quality	v Control	Plan			
	_With			erial transmitted herein is in c ptions Except for			an	rie l		cia		
Review	Comi	ment	s:				McGuir	e and He	ester			



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. 0
- - Luis Maca.
- Quality Assurance Technician II.
- John Scroggins. Quality Assurance Technician II.
- 0
- Brandon Snyder. Quality Assurance Technician III.
- Taylor Theis. 0
- 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

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule; Hamburg tests shall not be required.

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

City of Placerville – Blairs Lane Bridge Replacement Project Page 3 of 4 12/20/2016



(Tensile Strength Ration, %)

Smoothness Section 39-1.12B & D TBD Onsite

12-Ft

Profilograph not required.

(McGuire & Hester) Straight Edge

Paving Operations:

—Per approved submittal 59

- 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.
- 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. 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).

Rollers shall be minimum of those required in Geocon letter.

Driveways may be

built first at M&H

option.

- 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 Profiliograph required.

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.

City of Placerville – Blairs Lane Bridge Replacement Project Page 4 of 4 12/20/2016



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,

McGuiçe & Hester

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:

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

TITLE: Resident Engineer



GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



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."

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 211Abrasion 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
Construction Materials Testing:				
Soils		Х		
Concrete	X			
Asphalt		Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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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
TVOILE	☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 123 = SAMI LING MATERIALS ☐ CTM 201 = SAMPLE PREPARATION
03/17	 ☐ CTM 201 – SAWI EE TREFARATION ☐ CTM 202 – SIEVE ANALYSIS
03/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 ☑ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 ☑ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ☑ CTM -227 -CV
03/17	 ☐ CTM -206,207,208,211,
03/17	 ☑ CTM -234,235,371,384
	 \square CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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: 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
Construction Materials Testing:				
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

TL -0115 (07/2012) 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. T 304 Uncompacted Void Content, Fine T 11 Materials Finer Than 75-um, Wash T 308 Binder Content, Ignition, Method A T 27 Sieve Analysis, Fine & Coarse Agg. R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 84 Bulk SpG (SSD) of Fine Aggr. T 324 Hamburg Wheel-Track Testing T248 Reducing Sample of Agg T 85 Bulk SpG (Oven Dry), Coarse Agg. T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. Jache 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

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

District 03 Materials Engineer

Jache Treat

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.

TL -0115 (07/2012) 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 Partilcle D4791 Flat and Elongated Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. 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

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Presents this CERTIFICATE OF PROFICIENCY to

JAMES BREWSTER

of

TEICHERT

who is qualified to perform the following tests:

Expiration Date

Test Method

02/16		X CTM 105 – CALCULATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16		CTM 125 – SAMPLING MATERIALS
		CTM 201 – SAMPLE PREPARATION
		☐ CTM 202 – SIEVE ANALYSIS
		CTM 205 – % CRUSHED PARTICLES
		CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
		CTM 217 – SAND EQUIVALENT
		CTM 226 – MOISTURE CONTENT
		☐ CTM -227 -CV
		CTM 229 – DURABILITY
		CTM 231 – RELATIVE COMPACTION (NUCLEAR)
		CTM 304 – HMA PREPERATION FOR TESTING
		CTM 308 – BULK S.G. OF HMA BRIQUETTES
		CTM 309 – RICE S.G. & DENSITY OF HMA
		CTM 366 – STABILOMETER
		CTM 370 – HMA MOISTURE (MICROWAVE)
		CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		CTM 379 – PERCENT ASPHALT (NUCLEAR)
		CTM 382 – PERCENT ASPHALT
		CTM -204,206
	•••••	CTM -204,200
	•••••	CTM -212,213,214,
		☐ CTM -212,213,214,
		CTM xxx – XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		CTM xxx - XXXXXXXXXXXXXXX
		$\Box \text{CTM xxx} - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
	•••••	\square CTM xxx – XXXXXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXXX

KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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

Last revisea	!
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- 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:

	Level 1	Level 2	Level 3	Level 4
Construction Materials Testing:				
Soils	Х	Х		
Asphalt	Х	Х		
Concrete	Х	Х		
Highway Materials	Х	Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. **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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 ☐ CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
05/17	 □ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ☐ CTM -204,206,207,208,211,
03/17	 ☑ CTM -214,234,235,371,384
05/17	 ☑ CTM -301 R-VALUE
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXX
	 \Box CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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
- 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 211Abrasion 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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 □ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 □ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 CTM -371- MOISTURE SENSITIVITY
03/17	 ☐ CTM -206,207,208,211,
03/17	 ◯ CTM -234,235,204,214,384
05/17	 ☐ CTM xxx – XXXXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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 211Abrasion 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

TL -0115 (07/2012) 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 304 Uncompacted Void Content, Fine T 27 Sieve Analysis, Fine & Coarse Agg. T 308 Binder Content, Ignition, Method A R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 324 Hamburg Wheel-Track Testing T 84 Bulk SpG (SSD) of Fine Aggr. T 85 Bulk SpG (Oven Dry), Coarse Agg. T248 Reducing Sample of Agg T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent D7741 Apparent Viscosity T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage 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
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17		□ CTM 125 – SAMPLING MATERIALS
04/17		☑ CTM 201 – SAMPLE PREPARATION
04/17		☑ CTM 202 – SIEVE ANALYSIS
04/17		☑ CTM 205 – % CRUSHED PARTICLES
05/17		□ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
04/17		☑ CTM 217 – SAND EQUIVALENT
04/17		☑ CTM 226 – MOISTURE CONTENT
04/17		☑ CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17		□ CTM 304 – HMA PREPERATION FOR TESTING
04/17		☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17		☑ CTM 366 – STABILOMETER
04/17		☑ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17		CTM 382 – PERCENT ASPHALT
04/17		☐ CTM -227 -CV
04/17		☑ CTM -371-RESISTANCE TO MOISTURE
04/17		☑ CTM -206,207,208,211
04/17		☑ CTM -234,235
05/17		☑ CTM -204,214,301,384
		☐ CTM xxx – XXXXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXX
	•••••	CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache Tret

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☑ CTM 125 – SAMPLING MATERIALS
04/17	 □ CTM 201 – SAMPLE PREPARATION
04/17	 ☑ CTM 202 – SIEVE ANALYSIS
04/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	 ☑ CTM 217 – SAND EQUIVALENT
04/17	 ☑ CTM 226 – MOISTURE CONTENT
04/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 □ CTM 366 – STABILOMETER
04/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ☐ CTM -227 -CV
04/17	 ☐ CTM -206,207,211,212,214
04/17	 ☐ CTM -384-
	 CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	\square CTM vvv $_$ XXXXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jacke 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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	x CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☐ CTM 125 – SAMPLING MATERIALS
04/17	 ☐ CTM 201 – SAMPLE PREPARATION
04/17	 ☐ CTM 202 – SIEVE ANALYSIS
04/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	 ☐ CTM 217 – SAND EQUIVALENT
04/17	 ☐ CTM 226 – MOISTURE CONTENT
04/17	 ☐ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 ☐ CTM 366 – STABILOMETER
04/17	 ☐ CTM 370 – HMA MOISTURE (MICROWAVE)
	 CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ◯ CTM -227 -CV
04/17	 ◯ CTM -206, 207,211,234,235,
04/17	 ◯ CTM -371,384
05/17	 ☐ CTM 204,214
	 CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	\square CTM vvv $_$ XXXXXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Vadue Treat

Jackie Treat Certifi

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.

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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

TL -0115 (07/2012) 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-um, Wash T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	X CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 ☑ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ◯ CTM -204,206,207,208,211,
03/17	 ◯ CTM -214,234,235,371,384
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Vadue 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: 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

Last revised	'
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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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. Sadue 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

		CIW 103 – CALCOLATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17		☑ CTM 125 – SAMPLING MATERIALS
05/17		□ CTM 201 – SAMPLE PREPARATION
05/17		☑ CTM 202 – SIEVE ANALYSIS
05/17		☑ CTM 205 – % CRUSHED PARTICLES
		☐ CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17		☐ CTM 217 – SAND EQUIVALENT
05/17		CTM 226 – MOISTURE CONTENT
05/17		☑ CTM -227 -CV
05/17		CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17		☐ CTM 304 – HMA PREPERATION FOR TESTING
05/17		CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
		☐ CTM 366 – STABILOMETER
		☐ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17		CTM 382 – PERCENT ASPHALT
		☐ CTM -204,206
		☐ CTM -207,211
		☐ CTM -212,213,214,
		☐ CTM -234,235,371
		\square CTM xxx – XXXXXXXXXXXXXXXX
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		$\Box \text{ CTM } xxx - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
		\Box CTM vvv $=$ XXXXXXXXXXXXXXXXXX

KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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: 530-7				
		File: Materials Category 5				
aharatan.	Toichart Incorporated Parking Laboratory ID#22					
aboratory: ddress:	Teichert Incorporated-Perkins Laboratory-ID#32 8609 Jackson Road, Building #101					
ity:	Sacramento	State:	CA	Zip:	95826	
ab QC Mgr.:	Trenton Crouse	e-mail:		@teichert.c		
elephone:	(916) 386-6974	Fax #.:	(916) 38		<u>OIII</u>	
ACPHOLIC:	(510) 500 6577	. αλ π	(310) 30	JU U-JJ		
A certified Indepe	endent Assurance (IA) visited this laboratory on	_ 3/1	6/2016			
nly the equipment to	o be used on Caltrans construction projects and/or loc	al construction pr	ojects on t	the		
e National Highway	System was checked for qualification.					
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dicated below. Testi f Profiency Form TL-	ing personnel shall be Caltrans Qualified and possess a				S	
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IA Inspector

Jache Treat

CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Laboratory: Teichert Incorporated-Perkins Laboratory-ID#32 Address: 8609 Jackson Road, Building #101 City: Sacramento Lab QC Mgr.: Trenton Crouse Telephone: (916) 386-6974 A certified Independent Assurance (IA) visited this laboratory on Only the equipment to be used on Caltrans construction projects and/or local co the National Highway System was checked for qualification. At the time of Caltrans Qualification, this laboratory had all necessary equip indicated below. Testing personnel shall be Caltrans Qualified and possess a curr of Profiency Form TL-0111 prior to performing any sampling or testing. AASHTO R18,R30,R35, R47, R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30 T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791 X A written in-house Safety Program X Verification that the laboratory participates in Caltrans X Laboratory Procedures Manual X Laboratory Quality Control Manual	Inspected IA No.: Phone: File: Mat	d by: erials Cate	Jackie Tr #107 530-741 gory 500	
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X Laboratory Procedures Manual				
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Y Laboratory Quality Control Manual				
Laboratory Quality Control Mandai				
X Proper Test equipment				
X Copies of current applicable test procedures				
X Calibration and service documentation				
X Calibration stickers affixed to test equipment (dated w	hin the 12 r	nonths)		
X Personnel certification/qualification/training documen	ation			
X Nuclear gauge license				
	2011			

IA Inspector

Jache Treat

About Us

AASHTO Accreditation

Laboratory Assessments

Proficiency Samples

Library FWD

Resources

50 Years

Teichert Quality Assurance

Sacramento, California

Show This Entry Only

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

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, T90, 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.



Blairs Lane Bridge Replacement



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

Project Title

D. J 144 - J. T			Contract No.	40	604	M&H	Job#	39	26
Submitted To: Carl Sloan			Location	Placerville, CA			١		
Address:	549 Main Street			1st	_ 2nd	3rc	I (other _	_
	Placerville, CA 95667		Sub/Vender		Tei	ichert l	Materia	ıls	
Attention:	Carl Sloan		Contact	Don Bate			Bates		
Phone:	916-218-8432		Telephone	916-82	25-5070		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			Х				
RR- Revise & Resubmit	Owner to Consultant	12/00/10							
R- Rejected	Consultant to Owner								
AR- Acknowledge Receipt	Owner to Contractor								
RWR- Return W/o Review	Contractor to Subcontractor								
A AAN RR R A				Descript	tion				
70 170 170 170 170	Caltrans Section 39	1/2	2" 64-10 Hot Mix A			erm M	1 Addi	tive	



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 Kowik/me

Mike Kocunik Quality Assurance Supervisor

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

3/2/2016

Type:

1/2" Max. Med. Type A w/15% RAP

Plant:

Perkins GenCor

,, ...

w/ 0.3% Evotherm M1 Warm Mix

Agg Source:S.M.A.R.A. # 91-34-0037

-0037 Performed by:

Mike Kocunik

Asphalt: PG64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	18	41	11	15	
50.0mm	100	100	100	100	100	100	100	
37.5mm	100	100	100	100	100	100	100	
25.0mm	100	100	100	100	100	100	100	
19.0mm	100	100	100	100	100	100	100	
12.5mm	90 - 100	96	71	100	100	100	100	
9.5mm	78 - 90	84	19	78	100	100	99	
4.75mm	53- 67	60	3	3	90	100	74	
2.36mm	35 - 45	40		1	55	88	52	
1.18mm		28			35	72	40	
600µm	16 - 24	20			25	46	31	
300µm		14			21	17	22	
150µm	-	9			15	4	15	
75µm	3.5 - 7.5	5.5			9.5	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 M³	C.T.M.308-A	2.441	N/A
RICE UNIT WEIGHT Kg M3	C.T.M. 309	2.543	N/A
STABILOMETER VALUE	C.T.M.366	38	37 min
Dust Proportion	LP-4	1.2	0.6 - 1.2
VMA	LP-2	14.2	14.0 min
VFA	LP-3	73	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371		N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall be	4.8% by dry weight

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

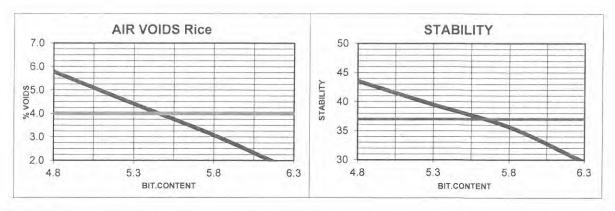
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Rev	s. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity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

STABILOMETER (C.T.M. 366)

			111010	(Willes I love) A	(0.1.11.000)			
	SPECIMEN	A	В	С	D	@ Optimum		m
	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					1		
	1000							
	2000							
1	3000							
1	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	44	39	36	30	38	37	38

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

12-0-			IDO DE L		1011 (5.1.111. 001	/		
	SPECIMEN	Α	В	С	D	(ım	
	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								5.
4	Max Asphalt Content with	4 or mo	re % Void	5.5	OBC*			
3	MEETING MIN. STAB.	(ENTER UP TO TWO)				4.8	5.3	
2	NONFLUSHING SPECIM	(ENTER UP TO THREE)			4.8	5.3	5.8	
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIM	IUM BITUMEN CONTENT	5.5					-	
RECOM	MENDED RANGE=		5.5					



Section 1. Identification

GHS product identifier

: EVOTHERM® M1

Climnical 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 29406-3615

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

(F) (E)

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 None known. result in classification

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 EC number

: Not available

: 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 furnes 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. Clear shoes thoroughly before reuse.

Section 4. First-aid measures

latgestion

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 not 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 light 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 imitation.

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 1 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)



5

Section 5. Fire-fighting measures

Lytinguishing metily

Suitable extinouishing

Unclear exting a some agent smile for the surrounding are.

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. The 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

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 sale

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 prothing and protective equipment before entering eating areas. See also Sention 5 for additional information on hygiene measures.

Conditions for sale storant, including any moonipatibilities

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.

procedures

Recommended monitoring : 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

Eve 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 googles. 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 manufactures 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

<u>Appearance</u>

Physical state : Liquid.

Colour : Amber, [Dark] Odour : Amine-like. Not available.

Odour threshold Ha

: 10 to 12 [Conc. (% w/w): 15%]

Melting point : <25°C (<77°F)

: >200°C (>392°F) Boiling point

: Closed cup: >204.4°C (>399.9°F) [Pensky-Martens] Flash point

Evaporation rate : Not available. : Not applicable. Flaminability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

: <1.0 x 10 1 mmHg @25 °C Vapour pressure

: Not available. Vapour density : 0.97 [Water = 1] Relative density

Partially soluble in the following materials: cold water and hot water. Solubility Easily dispersible in the following materials: cold water and hot water. Dispersibility properties

Partition coefficient: n-

octanol/water

: Not available.

: Not available. Auto-ignition temperature : Not available. Decomposition temperature : Not available. SADT : Not available. Viscosity : Not available. Other

Section 10. Stability and reactivity

RODESIVIEW

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 a Causes serious eye damage.

system. Exposure to decomposition products may cause a realin trazard. Sendo.

effects may be delayed following exposure.

Skin contact : Causes skin irritation

ingestion May cause burns to mouth, invost and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eve 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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

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.

Fortility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Loxicity

ProducVingredient mame	Result	Species	Exposure
Fritty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours

Persistence/degradability

riot available.

Test	Result		Dose		inoculum		
OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % - 28 days				Activated slugg		
Aquatic half-life		Photolysis		Biode	degradability		
amine derivatives -		-		Not rea	readily		
	OECD 301D 301D Ready Biodegradability Closed Bottle Test	OECD 301D 36 % 28 301D Ready Biodegradability - Closed Bottle	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	OECD 301D 301D Ready Biodegradability Closed Bottle Test Aquatic half-life Photolysis Biodeg		

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not ca 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 spilt 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, it o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid no so (Fatty amine denvatives). Marine pollutant (Fatty amine denvatives)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	111	III	111
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 nformation	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg Emergency schedules (EmS) F-A, S-F Special provisions 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only 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. Limited quantity Yes.

	Limited Quantities - Passenger Airstaft Quantity limitation: 30 kg Packaging instructions: Y954 Special provisions A97-A158	Special provisions 8, 146, 173 335 183, 74, 1P1 1P29
--	---	--

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 : Not applicable.

Law

Fire Service Law

: Class 4: Type 4 petroleum

Designated quantity

Designated quantity

Designated quantity

: Not available.

: Not available

: Not available.

Fire Service Law

: Not available.

Substance to report

: Not applicable.

Fire Service Law -Obstructive materials : Not listed

Characteristics Danger class

: Not available.

: Not available.

Poisonous and Deleterious Substances

Use of specified chemical

: Not available.

substances

ISHL

: Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation

: Not applicable.

Version:



Section 15. Regulatory information

Occupational diseases

: Not available.

Law Concerning

- Marine pollutant: P

Prevention of Pollution of the Ocean and Maritime

Disaster

Notification Regulating

: Not available.

Transportation of

Dangerous Materials by

Sea

Givil Aeronautics Law

: Not available.

Pollutant Release and

: Not listed

Transfer Registers (PRTR)

Road law

: Not applicable.

JSOH Carcinogen ISHL Prevention of : Not listed

Tetraalkyl Lead Poisoning

: Not listed

ISHL Harmful Substances

: Not listed

Subject to Obtaining Permission for Manufacturing

ISHL Harmful Substances,

: Not listed

Prohibited for Manufacturing

ISHL Chemicals requiring

: Not listed

notification

ISHL Dangerous

: Not listed

Substances

List of Specially

. Not listed

Controlled Industrial Waste

Chemical Substances Control Law (CSCL)

Not available.

Biodegradability

: Not available.

Concentration of

· Not available.

chemicals accumulated in

fish

Japan inventory

: This material is listed or exempted.

Other regulations

: Not available.

Safety, health and

unvironmental 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

: This material is not listed.

chemicals

Section 15, Regulatory information

TCCA Article 32

(Banned)

This material is not listed

TCCA Article 32

(Restricted)

This material is not listed.

TGCA 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 Cantage of Dangerous Goods
by Rall
UN = United Mations

Turerances

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 abovenamed 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.





Blairs Lane Bridge Replacement



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

		_						Project Title	BI	airs Lane	e Bridg	ge Rep	laceme	ent
								Contract No.	40	604	M&H	Job#	39	26
Subr	Submitted To: Carl Sloan				Carl Sloan			Location	Placerville, CA					
Address: 549 Main Street				549 Main Street				1st	_ 2nd	3rd	l (other _	_	
	Placerville, CA 95667							Sub/Vender		Tei	chert I	Materia	ıls	
Attention: Carl Sloan								Contact			Don E	Bates		
Phone: 916-2					916-218-8432			Telephone	916-825-5070 Sub/Ven Subm'l #					3
A	CTI	ON T	AKEI	N	M&H SUBMITTAL	Date S	ent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved					Subcontractor to Contractor									
AAN- A	AAN- Approved as Noted				Contractor to Owner	07/27/	/16			Х				
RR- Re	vise 8	k Resu	bmit		Owner to Consultant									
R- Reje	ected				Consultant to Owner									
AR- Acknowledge Receipt				t	Owner to Contractor									
RWR-	Returr	ı W/o F	Review		Contractor to Subcontractor									
Α	AAN	RR	R	AR	Specification No.				Descrip					
					Caltrans Section 39			1/2" 64	-10 Hot l	Mix Asph	alt			
We	erif	y tha	t the	mat	erial transmitted herein is in o	ompliance	with t	he Contract Specifi	ications:					
/		With	no I	Exce	ptions Except for	the following	ng dev	viations						
_														
Com	mer	its:												
											<u> </u>			
									ars	rie G	fare	ria		
									McGuir	e and He	ster			
Revi	ew (Comr	ment	s:										
	(itv (of Ci	trus	Heights Submittal N	No. 59								
					_	-5. <u>65</u>								
		Re	ceive	d and	d Filed									

Approved ☐ Approved as Noted: ☐ Revise and Resubmit □ Rejected Date: 8-3-16 Signature:

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

Cell: (916) 826-3243 Fax: (916) 685-8701 jdougherty@ppcla.com

TEICHERT QUALITY ASSURANCE **HVEEM MIX DESIGN**

Date:

1/6/2016

Type: 1/2" Maximum Medium "A"

Plant: Perkins Batch Plant

w/15% RAP

Agg Source:S.M.A.R.A. # 91-34-0045 Asphalt: PG 64-10

Performed by:

Mike Kocunik

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin	3	2	1	BHD	RAP	
	Operating	Size		-	-	DITID	1011	
% Used	Range	100	11	26.5	47	0.5	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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	1 1	0.6 - 1.3
VMA	LP-2	14.1		14.0 min
VFA	LP-3	72	1 1	65 - 75
FAA	AASHTO T304	46		45 min
TSR	C.T.M. 371	-	1 1	N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall	be 4.8% t	ov dry weight

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

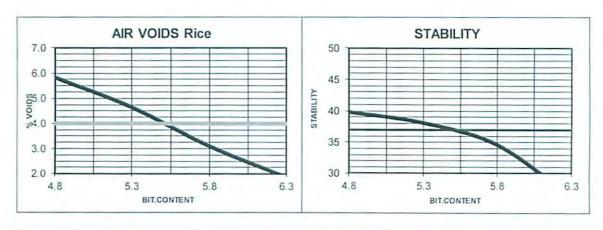
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	. CTM 211	4	N/A	12%
500 Rev	vs. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
Flat & Elongated (3:1)	ASTM D 4791	5.7		
(5:1)		3.2		
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	А	В	С	D	0	Optimur	n
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.		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			
TURNS 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)

		AIR VU	DO DE II	-KIVIIIVA I	ION C.I.	IVI. 307				
	SPECIMEN	Α	В	C	D		0	@ 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	Max Asphalt Content with 4 or more % Voids							OBC*
3	MEETING MIN. STAB.	(ENTE	R UP TO	TWO)		4.8	5.3	
2	NONFLUSHING SPECI	(ENTER UP TO THREE) 4.8			4.8	5.3	5.8	
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIM	NUM BITUMEN CONTENT	Γ=	5.5					
RECOMMENDED RANGE= 5.2				5.5				

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

1/6/2016

Type:

1/2" Maximum Medium Type "A"

Plant: Perkins (Drum) Agg Source:S.M.A.R.A. #

91-34-0045

Performed by:

w/15% RAP

Mike Kocunik

Asphalt: PG 64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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 b	e added to the aggred	ate chall	ho 1 8%	ov dry weight

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 Rev	s. CTM 211	4	N/A	12%
500 Re	evs. 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			6.00

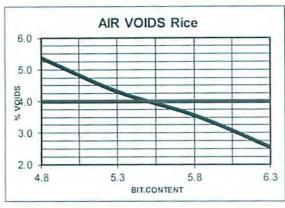
1/2" Max. Medium Type "A", Perkins Drum Plant

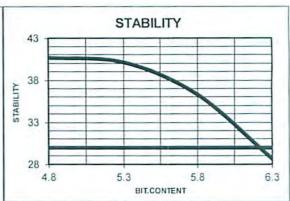
CTARIL	OMETER	(CTM	366
SIADIL	CIVILILIX	(U. I . IVI.	000

		D		D		@ Optimur	m
SPECIMEN	Α	В	C		F		
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			
TURNS 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)

		All VO	IDO DE I	- I CIVILLAN	11014 (0.1.141. 00	' /			
	SPECIMEN	A	В	С	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	Max Asphalt Content with 4 or more % Voids						5.5	OBC*
3	MEETING MIN. STAB.	(ENTE	R UP TO	TWO)		4.8	5.3	
2	NONFLUSHING SPEC	(ENTER	UP TO	THREE)	4.8	5.3	5.8	
1	DESIGN SET			4.8	5.3	5.8	6.3	
* OPTIN	NUM BITUMEN CONTEN	T=	5.5					
RECOMMENDED RANGE= 5.2				5.5				

STATE OF CALIFORNIA. DEPARTMENT OF TRASPORTATION

CONTRACT CH	ANGE ORDER N	Date: 01/23/20	016			
To		Blairs Lane Bridge Replacement				
City Of Place	rville				•	
From				Prj # 40604		
UNICO Engin	eering, Inc., Carl Slo	oan, RE		Fed No.: BRLO 502	15 (009)	
CCO No				Contingency Balance (Including this change)		
12						
CCO Amount \$36	5,900.00	Is this request in accordance Yes No with environmental documents?				
∑ Increase □	Decrease			with environment	ai documents?	
Original Contract Working Days:	Time Adjustment This Change:	Previously-Approved CCO Time Adjustments	(Including this change) Unrece		Total Number Of Unreconciled Deferred-Time CCO's (Including this change)	
<u>170</u>	<u>0</u> Day(s)	<u>21</u> Day(s)	<u>12%</u> <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 facailities.

Extra Work Calculations:

Working Days:

No additional working days are granted.

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

CITY OF	PLACERVILL	.E				Sheet	1	c	of 1	
CONTR	RACT CHA	ANGE ORDER	?	Change Requested by:	\boxtimes	City			Contrac	or
CCO No. 11	Suppl. No.	Contract No. 40604	Project Blairs Lane B	ridge Replacement	Fe	deral Proje BRLO				
то: Мс	Guire & H	lester, Inc.								
specification	ons for this cont	ract. NOTE: This c	hange order must be approved	s or do the following described wo by the City Council: gate between additional work at contr		Yes 🔀	<u> </u>	No		
account.)										
Estimated Cost: Decrease Increase Deferred By reason of this order the time of completion will be adjusted as follows: No additional working days granted										
Submitte		o time of completion			aayo	<u>g. a </u>				
SIGNATU		en Neves	(PRINT NAME & Rebecca Ne	k TITLE) ves P.E., City Engineer		DA 12		/16		
Approved			·							
SIGNATU	RE		(PRINT NAME 8	,		DATE				
			Cleve Morris	s, City Manager						
SIGNATU		/ () /	(PRINT NAME 8	L TITLE)		DA	TE			
Resident Engineer 12/21/16						6				
				nd agree, if this proposal is approv						t,
				services necessary for the work ab t sign acceptance of this order,						
requireme	nts of the spe	cification as to proc	eeding with the ordered work a	nd filing a written protest within	the tin	ne therein s	pec	cified.	•	
	or Acceptance	by								
SIGNATU	RE		(PRINT NAME 8	k TITLE)		DA	ΤE			



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.

1. Sh

TITLE: Resident Engineer



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

Project Title

M&H S# 069.

Blairs Lane Bridge Replacement

						Contract No.	40	604	M&H	Job#	39	26
Submitt	ted To):		Carl Sloan		Location		Placerville, CA		١		
Address	3:			549 Main Street			1st 2nd 3rd other			other _	_	
				Placerville, CA 95667		Sub/Vender						
Attentio	n:			Carl Sloan		Contact						
Phone:				916-218-8432		Telephone			_	Sub/Ven	Subm'l#	
ACT	ION T	AKE	١	M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approve	ed			Subcontractor to Contractor								
AAN- Appr	oved as	Noted		Contractor to Owner	12/20/16			X				
RR- Revise	& Resu	bmit		Owner to Consultant								
R- Rejected	t			Consultant to Owner								
AR- Ackno	wledge l	Receipt	t	Owner to Contractor								
RWR- Retu	rn W/o F	Review		Contractor to Subcontractor								
A AAI	N RR	R	AR	Specification No.		1	Descrip	tion	ı	ı		
				Section 39-2.02		AC Pavin	g Quality	v Control	Plan			
	_With			erial transmitted herein is in c ptions Except for			an	rie l		cia		
Review	Comi	ment	s:				McGuir	e and He	ester			



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. 0
- - Luis Maca.
- Quality Assurance Technician II.
- John Scroggins. Quality Assurance Technician II.
- 0
- Brandon Snyder. Quality Assurance Technician III.
- Taylor Theis. 0
- 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

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule; Hamburg tests shall not be required.

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

City of Placerville – Blairs Lane Bridge Replacement Project Page 3 of 4 12/20/2016



(Tensile Strength Ration, %)

Smoothness Section 39-1.12B & D TBD Onsite

12-Ft

Profilograph not required.

(McGuire & Hester) Straight Edge

Paving Operations:

—Per approved submittal 59

- 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.
- 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. 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).

Rollers shall be minimum of those required in Geocon letter.

Driveways may be

built first at M&H

option.

- 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 Profiliograph required.

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.

City of Placerville – Blairs Lane Bridge Replacement Project Page 4 of 4 12/20/2016



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,

McGuiçe & Hester

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:

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

TITLE: Resident Engineer



GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



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."

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 211Abrasion 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
Construction Materials Testing:				
Soils		Х		
Concrete	X			
Asphalt		Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
TVOILE	☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 123 = SAMI LING MATERIALS ☐ CTM 201 = SAMPLE PREPARATION
03/17	 ☐ CTM 201 – SAWI EE TREFARATION ☐ CTM 202 – SIEVE ANALYSIS
03/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 ☑ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 ☑ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ☑ CTM -227 -CV
03/17	 ☐ CTM -206,207,208,211,
03/17	 ☑ CTM -234,235,371,384
	 \square CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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: 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
Construction Materials Testing:				
Soils	X			
Concrete	X			
Asphalt	Х			

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

TL -0115 (07/2012) 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. T 304 Uncompacted Void Content, Fine T 11 Materials Finer Than 75-um, Wash T 308 Binder Content, Ignition, Method A T 27 Sieve Analysis, Fine & Coarse Agg. R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 84 Bulk SpG (SSD) of Fine Aggr. T 324 Hamburg Wheel-Track Testing T248 Reducing Sample of Agg T 85 Bulk SpG (Oven Dry), Coarse Agg. T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. Jache 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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	 □ CTM 125 – SAMPLING MATERIALS
06/18	 □ CTM 201 – SAMPLE PREPARATION
06/18	 □ CTM 202 – SIEVE ANALYSIS
06/18	 CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	 CTM 217 – SAND EQUIVALENT
06/18	 CTM 226 – MOISTURE CONTENT
06/18	 CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
06/18	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	 ☑ CTM 366 – STABILOMETER
06/18	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	 CTM 382 – PERCENT ASPHALT
06/18	 ☐ CTM -227 -CV
06/18	 ☐ CTM -206,207,208,211,
06/18	 ☐ CTM -234,235,371,384
	 CTM xxx – XXXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	\Box CTM vvv \Box VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV

FERNANDO RIVERA

District 03 Materials Engineer

Jache Treat

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.

TL -0115 (07/2012) 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 Partilcle D4791 Flat and Elongated Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. 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		X CTM 105 – CALCULATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16		CTM 125 – SAMPLING MATERIALS
		CTM 201 – SAMPLE PREPARATION
		☐ CTM 202 – SIEVE ANALYSIS
		CTM 205 – % CRUSHED PARTICLES
		CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
		CTM 217 – SAND EQUIVALENT
		CTM 226 – MOISTURE CONTENT
		☐ CTM -227 -CV
		CTM 229 – DURABILITY
		CTM 231 – RELATIVE COMPACTION (NUCLEAR)
		CTM 304 – HMA PREPERATION FOR TESTING
		CTM 308 – BULK S.G. OF HMA BRIQUETTES
		CTM 309 – RICE S.G. & DENSITY OF HMA
		CTM 366 – STABILOMETER
		CTM 370 – HMA MOISTURE (MICROWAVE)
		CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		CTM 379 – PERCENT ASPHALT (NUCLEAR)
		CTM 382 – PERCENT ASPHALT
		CTM -204,206
	•••••	CTM -204,200
	•••••	CTM -212,213,214,
		☐ CTM -212,213,214,
		CTM xxx – XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		CTM xxx - XXXXXXXXXXXXXXX
		$\Box \text{CTM xxx} - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
	•••••	\square CTM xxx – XXXXXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx - XXXXXXXXXXXXXXX

KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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

Last revisea	!
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- 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:

	Level 1	Level 2	Level 3	Level 4
Construction Materials Testing:				
Soils	Х	х		
Asphalt	Х	Х		
Concrete	Х	Х		
Highway Materials	Х	Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 ☐ CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
05/17	 □ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ☐ CTM -204,206,207,208,211,
03/17	 ☑ CTM -214,234,235,371,384
05/17	 ☑ CTM -301 R-VALUE
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 \Box CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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
- 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 211Abrasion 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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 CTM -371- MOISTURE SENSITIVITY
03/17	 CTM -206,207,208,211,
03/17	 ◯ CTM -234,235,204,214,384
05/17	 ☐ CTM xxx – XXXXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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 211Abrasion 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

TL -0115 (07/2012) 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 304 Uncompacted Void Content, Fine T 27 Sieve Analysis, Fine & Coarse Agg. T 308 Binder Content, Ignition, Method A R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 324 Hamburg Wheel-Track Testing T 84 Bulk SpG (SSD) of Fine Aggr. T 85 Bulk SpG (Oven Dry), Coarse Agg. T248 Reducing Sample of Agg T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent D7741 Apparent Viscosity T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage 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
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17		☑ CTM 125 – SAMPLING MATERIALS
04/17		☑ CTM 201 – SAMPLE PREPARATION
04/17		☑ CTM 202 – SIEVE ANALYSIS
04/17		☑ CTM 205 – % CRUSHED PARTICLES
05/17		□ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
04/17		☑ CTM 217 – SAND EQUIVALENT
04/17		☑ CTM 226 – MOISTURE CONTENT
04/17		☑ CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17		□ CTM 304 – HMA PREPERATION FOR TESTING
04/17		☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17		☑ CTM 366 – STABILOMETER
04/17		☑ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17		CTM 382 – PERCENT ASPHALT
04/17		☐ CTM -227 -CV
04/17		☑ CTM -371-RESISTANCE TO MOISTURE
04/17		☑ CTM -206,207,208,211
04/17		☑ CTM -234,235
05/17		☑ CTM -204,214,301,384
		☐ CTM xxx – XXXXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXX
	•••••	CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache Tret

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 □ CTM 125 – SAMPLING MATERIALS
04/17	 □ CTM 201 – SAMPLE PREPARATION
04/17	 □ CTM 202 – SIEVE ANALYSIS
04/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	 ☑ CTM 217 – SAND EQUIVALENT
04/17	 ☑ CTM 226 – MOISTURE CONTENT
04/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 □ CTM 366 – STABILOMETER
04/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ☐ CTM -227 -CV
04/17	 ☐ CTM -206,207,211,212,214
04/17	 ☐ CTM -384-
	 CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	\square CTM vvv $_$ XXXXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jacke 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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	x CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☐ CTM 125 – SAMPLING MATERIALS
04/17	 ☐ CTM 201 – SAMPLE PREPARATION
04/17	 ☐ CTM 202 – SIEVE ANALYSIS
04/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	 ☐ CTM 217 – SAND EQUIVALENT
04/17	 ☐ CTM 226 – MOISTURE CONTENT
04/17	 ☐ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 ☐ CTM 366 – STABILOMETER
04/17	 ☐ CTM 370 – HMA MOISTURE (MICROWAVE)
	 CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ◯ CTM -227 -CV
04/17	 ◯ CTM -206, 207,211,234,235,
04/17	 ◯ CTM -371,384
05/17	 ☐ CTM 204,214
	 CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	\square CTM vvv $_$ XXXXXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Vadue Treat

Jackie Treat Certifi

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.

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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

TL -0115 (07/2012) 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-um, Wash T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	X CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ◯ CTM -204,206,207,208,211,
03/17	 ◯ CTM -214,234,235,371,384
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Vadue 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: 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

Last revised	'
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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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. Sadue 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

		CIW 103 – CALCOLATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17		☑ CTM 125 – SAMPLING MATERIALS
05/17		□ CTM 201 – SAMPLE PREPARATION
05/17		☑ CTM 202 – SIEVE ANALYSIS
05/17		☑ CTM 205 – % CRUSHED PARTICLES
		☐ CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17		☐ CTM 217 – SAND EQUIVALENT
05/17		CTM 226 – MOISTURE CONTENT
05/17		☑ CTM -227 -CV
05/17		CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17		☐ CTM 304 – HMA PREPERATION FOR TESTING
05/17		CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
		☐ CTM 366 – STABILOMETER
		☐ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17		CTM 382 – PERCENT ASPHALT
		☐ CTM -204,206
		☐ CTM -207,211
		☐ CTM -212,213,214,
		☐ CTM -234,235,371
		\square CTM xxx – XXXXXXXXXXXXXXXX
		☐ CTM xxx – XXXXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXXX
	•••••	\square CTM xxx – XXXXXXXXXXXXXXX
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KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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		Expiratio	n date:	3/20/2	017
		Inspected by:		Jackie Treat	
		IA No.:	-	#107	
		Phone:		530-741	L-4131
		File: Mat	erials Cate		
aharatan.	Toichart Incorporated Parking Laboratory ID#22				
aboratory: ddress:	Teichert Incorporated-Perkins Laboratory-ID#32 8609 Jackson Road, Building #101				
ity:	Sacramento	State:	CA	Zip:	95826
ab QC Mgr.:	Trenton Crouse	e-mail:		@teichert.c	
elephone:	(916) 386-6974	Fax #.:	(916) 38		<u>OIII</u>
ACPHOLIC:	(510) 500 6577	. αλ π	(310) 30	JU U-JJ	
A certified Indepe	endent Assurance (IA) visited this laboratory on	_ 3/1	6/2016		
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IA Inspector

Jache Treat

CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Laboratory: Teichert Incorporated-Perkins Laboratory-ID#32 Address: 8609 Jackson Road, Building #101 City: Sacramento Lab QC Mgr.: Trenton Crouse Telephone: (916) 386-6974 A certified Independent Assurance (IA) visited this laboratory on Only the equipment to be used on Caltrans construction projects and/or local co the National Highway System was checked for qualification. At the time of Caltrans Qualification, this laboratory had all necessary equip indicated below. Testing personnel shall be Caltrans Qualified and possess a curr of Profiency Form TL-0111 prior to performing any sampling or testing. AASHTO R18,R30,R35, R47, R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30 T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791 X A written in-house Safety Program X Verification that the laboratory participates in Caltrans X Laboratory Procedures Manual X Laboratory Quality Control Manual	Inspected IA No.: Phone: File: Mat	d by: erials Cate	Jackie Tr #107 530-741 gory 500	
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Y Laboratory Quality Control Manual				
Laboratory Quality Control Mandai				
X Proper Test equipment				
X Copies of current applicable test procedures				
X Calibration and service documentation				
X Calibration stickers affixed to test equipment (dated w	hin the 12 r	nonths)		
X Personnel certification/qualification/training documen	ation			
X Nuclear gauge license				
	2011			

IA Inspector

Jache Treat

About Us

AASHTO Accreditation

Laboratory Assessments

Proficiency Samples

Library FWD

Resources

50 Years

Teichert Quality Assurance

Sacramento, California

Show This Entry Only

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

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, T90, 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.



Blairs Lane Bridge Replacement



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

Project Title

D. J 144 - J. T			Contract No.	40	604	M&H	Job#	39	26
Submitted To:	Carl Sloan	Location	Placerville, CA						
Address:	549 Main Street			1st	_ 2nd	3rc	I (other _	_
	Placerville, CA 95667		Sub/Vender		Tei	ichert l	Materia	ıls	
Attention:	Carl Sloan		Contact		Don Bates				
Phone:	916-218-8432		Telephone	916-825-5070 Sub/Ven Subm			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			Х				
RR- Revise & Resubmit	Owner to Consultant	12/00/10							
R- Rejected	Consultant to Owner								
AR- Acknowledge Receipt	Owner to Contractor								
RWR- Return W/o Review	Contractor to Subcontractor								
A AAN RR R A				Descript	tion				
70 170 170 170 170	Caltrans Section 39	1/2	2" 64-10 Hot Mix A			erm M	1 Addi	tive	



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 Kowik/me

Mike Kocunik Quality Assurance Supervisor

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

3/2/2016

Type:

1/2" Max. Med. Type A w/15% RAP

Plant:

Perkins GenCor

,, ...

w/ 0.3% Evotherm M1 Warm Mix

Agg Source:S.M.A.R.A. # 91-34-0037

-0037 Performed by:

Mike Kocunik

Asphalt: PG64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	18	41	11	15	
50.0mm	100	100	100	100	100	100	100	
37.5mm	100	100	100	100	100	100	100	
25.0mm	100	100	100	100	100	100	100	
19.0mm	100	100	100	100	100	100	100	
12.5mm	90 - 100	96	71	100	100	100	100	
9.5mm	78 - 90	84	19	78	100	100	99	
4.75mm	53- 67	60	3	3	90	100	74	
2.36mm	35 - 45	40		1	55	88	52	
1.18mm		28			35	72	40	
600µm	16 - 24	20			25	46	31	
300µm		14			21	17	22	
150µm	-	9			15	4	15	
75µm	3.5 - 7.5	5.5			9.5	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 M³	C.T.M.308-A	2.441	N/A
RICE UNIT WEIGHT Kg M3	C.T.M. 309	2.543	N/A
STABILOMETER VALUE	C.T.M.366	38	37 min
Dust Proportion	LP-4	1.2	0.6 - 1.2
VMA	LP-2	14.2	14.0 min
VFA	LP-3	73	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371		N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall be	4.8% by dry weight

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

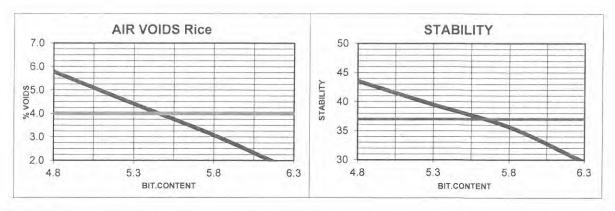
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Rev	s. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity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

STABILOMETER (C.T.M. 366)

			111010	(Willes I love) A	(0.1.11.000)			
	SPECIMEN	A	В	С	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					1		
1	1000							
	2000							
1	3000							
1	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	44	39	36	30	38	37	38

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

			10001		1011 0.11.111. 001	/		
	SPECIMEN	Α	В	С	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								5.
4	Max Asphalt Content with 4 or more % Voids					3	5.5	OBC*
3	MEETING MIN. STAB.	(ENTER UP TO TWO)				4.8	5.3	
2	NONFLUSHING SPECIM	(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

Climnical 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 29406-3615

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

(F) (E)

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 None known. result in classification

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 EC number

: Not available

: 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 furnes 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. Clear shoes thoroughly before reuse.

Section 4. First-aid measures

latgestion

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 not 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 light 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 imitation.

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 1 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)



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Section 5. Fire-fighting measures

Lytinguishing metily

Suitable extinouishing

Unclear exting a some agent smile for the surrounding are.

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. The 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

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 sale

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 prothing and protective equipment before entering eating areas. See also Sention 5 for additional information on hygiene measures.

Conditions for sale storant, including any moonipatibilities

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.

procedures

Recommended monitoring: 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

Eve 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 googles. 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 manufactures 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

<u>Appearance</u>

Physical state : Liquid.

Colour : Amber, [Dark] Odour : Amine-like. Not available.

Odour threshold Ha

: 10 to 12 [Conc. (% w/w): 15%]

Melting point : <25°C (<77°F)

: >200°C (>392°F) Boiling point

: Closed cup: >204.4°C (>399.9°F) [Pensky-Martens] Flash point

Evaporation rate : Not available. : Not applicable. Flaminability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

: <1.0 x 10 1 mmHg @25 °C Vapour pressure

: Not available. Vapour density : 0.97 [Water = 1] Relative density

Partially soluble in the following materials: cold water and hot water. Solubility Easily dispersible in the following materials: cold water and hot water. Dispersibility properties

Partition coefficient: n-

octanol/water

: Not available.

: Not available. Auto-ignition temperature : Not available. Decomposition temperature : Not available. SADT : Not available. Viscosity : Not available. Other

Section 10. Stability and reactivity

RODESIVIEW

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 a Causes serious eye damage.

system. Exposure to decomposition products may cause a realin trazard. Sendo.

effects may be delayed following exposure.

Skin contact : Causes skin irritation

ingestion May cause burns to mouth, invost and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eve 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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

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

Loxicity

ProducVingredient mame	Result	Species	Exposure
Fritty amine derivatives	LC50 0.43 mg/l	Fish	96 hours
	NOEC 0.32 mg/l	Fish	96 hours

Persistence/degradability

riot available.

The state of the s		Result		Dose		Inoculum	
atty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	36 % 28	days			Activated sludge	
Product/ingredient name	Aquatic half-life		Photolysis		Biode	legradability	
atty amine derivatives	-		Annie de la companya		Not rea	acily	

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not ca 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 spilt 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, nos. (Fatty amine derivatives)	Environmentally hazardous substance, liquid no so (Fatty amine denvatives). Marine pollutant (Fatty amine denvatives)
14.3 Transport hazard class(es)	9	9		s all the tra
14.4 Packing group	H	111	III	111
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. Special provisions 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg Emergency. schedules (EmS) F-A, S-F Special provisions 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only 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. Limited quantity Yes.

	Limited Quantities - Passenger Airstaft Quantity limitation: 30 kg Packaging instructions: Y954 Special provisions A97-A158	Special provisions 8, 146, 173 335 183, 74, 1P1 1P29
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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 : Not applicable.

Law

Fire Service Law

: Class 4: Type 4 petroleum

Designated quantity

Designated quantity

Designated quantity

: Not available.

: Not available

: Not available.

Fire Service Law

: Not available.

Substance to report

: Not applicable.

Fire Service Law -Obstructive materials : Not listed

Characteristics Danger class

: Not available.

: Not available.

Poisonous and Deleterious Substances

Use of specified chemical

: Not available.

substances

ISHL

: Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation

: Not applicable.

Version:

Validated on 10/18/2013.

Section 15. Regulatory information

Occupational diseases

: Not available.

Law Concerning

- Marine pollutant: P

Prevention of Pollution of the Ocean and Maritime

Disaster

Notification Regulating

: Not available.

Transportation of

Dangerous Materials by

Sea

Givil Aeronautics Law

: Not available.

Pollutant Release and

: Not listed

Transfer Registers (PRTR)

Road law

: Not applicable.

JSOH Carcinogen ISHL Prevention of : Not listed

Tetraalkyl Lead Poisoning

: Not listed

ISHL Harmful Substances

: Not listed

Subject to Obtaining Permission for Manufacturing

ISHL Harmful Substances,

: Not listed

Prohibited for Manufacturing

ISHL Chemicals requiring

: Not listed

notification

ISHL Dangerous

: Not listed

Substances

List of Specially

. Not listed

Controlled Industrial Waste

Chemical Substances Control Law (CSCL)

Not available.

Biodegradability

: Not available.

Concentration of

· Not available.

chemicals accumulated in

fish

Japan inventory

: This material is listed or exempted.

Other regulations

: Not available.

Safety, health and unvironmental 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

: This material is not listed.

chemicals

Section 15, Regulatory information

TCCA Article 32

(Banned)

This material is not listed

TCCA Article 32

(Restricted)

This material is not listed.

TGCA 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 Cantage of Dangerous Goods
by Rall
UN = United Mations

Turerances

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 abovenamed 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.





Blairs Lane Bridge Replacement



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

Project Title

								Contract No.	40	604	М&Н	Job#	39	26
Sub	mitte	d To	:		Carl Sloan			Location		Р	lacerv	lle, CA	ı	
Add	ress:				549 Main Street				1st	_ 2nd	_ 3rd	c	other _	
					Placerville, CA 95667			Sub/Vender		Tei	chert I	Materia	ls	
Atte	ntion	:			Carl Sloan			Contact			Don E	Bates		
Pho	ne:				916-218-8432			Telephone	916-82	25-5070		Sub/Ven	Subm'l#	3
	ACTIO	ON T	AKEN	١	M&H SUBMITTAL	Date S	Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
4- Ар	proved				Subcontractor to Contractor									
۹AN-	Approv	ed as	Noted		Contractor to Owner	07/27	7/16			Х				
RR- R	evise 8	k Resu	bmit		Owner to Consultant									
R- Re	jected				Consultant to Owner									
		ledge F	Receipt		Owner to Contractor									
	Return	•			Contractor to Subcontractor									
	AAN		R	AR	Specification No.	1		l.	Descript	ion				
					Caltrans Section 39			1/2" 64	-10 Hot N		alt			
		With			erial transmitted herein is in c ptions Except for				cations:					
COI	IIIICI	ilo.												
									an	rie G	fare	ria		
										e and He				
Rev	iew (Comr	nent	s:										
	С	ity o	of Ci	trus	Heights Submittal N	lo. <u>59</u>								
		Re	ceive	d and	l Filed									

City of Citrus Heights

Submittal No. 59

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

Signature:
Date: 8-3-16

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

Cell: (916) 826-3243 Fax: (916) 685-8701 jdougherty@ppcla.com

TEICHERT QUALITY ASSURANCE **HVEEM MIX DESIGN**

Date:

1/6/2016

Type: 1/2" Maximum Medium "A"

Plant: Perkins Batch Plant

w/15% RAP

Agg Source:S.M.A.R.A. # 91-34-0045 Asphalt: PG 64-10

Performed by:

Mike Kocunik

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin	3	2	1	BHD	RAP	
	Operating	Size		-	-	DITID	1011	
% Used	Range	100	11	26.5	47	0.5	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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	1 1	0.6 - 1.3
VMA	LP-2	14.1		14.0 min
VFA	LP-3	72	1 1	65 - 75
FAA	AASHTO T304	46		45 min
TSR	C.T.M. 371	-	1 1	N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall	be 4.8% t	ov dry weight

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

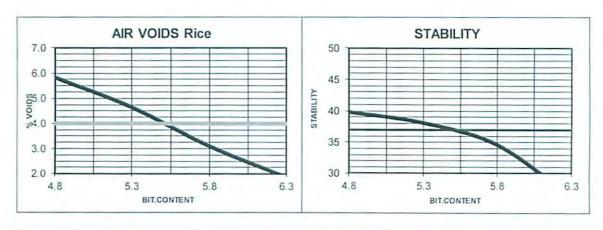
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	. CTM 211	4	N/A	12%
500 Rev	vs. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
Flat & Elongated (3:1)	ASTM D 4791	5.7		
(5:1)		3.2		
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	А	В	С	D	0	Optimur	n
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.		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			
TURNS 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)

		AIR VU	DO DE II	-KIVIIIVA I	ION C.I.	IVI. 307			
	SPECIMEN	Α	В	C	D		0	Optimu	m
	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	Max Asphalt Content wi	Max Asphalt Content with 4 or more % Voids							
3	MEETING MIN. STAB.	(ENTE	R UP TO	TWO)		4.8	5.3		
2	NONFLUSHING SPECI	(ENTER	R UP TO	THREE)	4.8	5.3	5.8		
1	DESIGN SET				4.8	5.3	5.8	6.3	
* OPTIM	NUM BITUMEN CONTENT	Γ=	5.5						
RECOM	ECOMMENDED RANGE= 5.2			5.5					

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

1/6/2016

Type:

1/2" Maximum Medium Type "A"

Plant: Perkins (Drum) Agg Source:S.M.A.R.A. #

91-34-0045

Performed by:

w/15% RAP

Mike Kocunik

Asphalt: PG 64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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 b	e added to the aggred	ate chall	ho 1 8%	ov dry weight

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 Rev	s. CTM 211	4	N/A	12%
500 Re	evs. 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			6.00

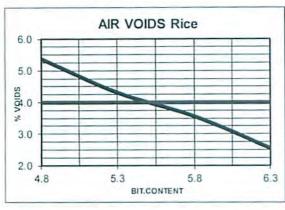
1/2" Max. Medium Type "A", Perkins Drum Plant

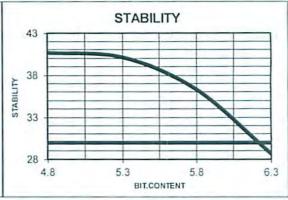
STABIL	OMETER	(C.T.M.	366
JIADIL	CIVILILI	1 0. 1 . 111.	000

		TT LE IL C.	-	-		@ Ontingu	~
SPECIMEN	A	В	C	D	-	@ Optimur	
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			
TURNS 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)

		AIL AO	IDO DE I	TI CIAMILAN	11014 (0.1.11. 00)	1			
	SPECIMEN	Α	В	С	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	Max Asphalt Content w	5.5	OBC*					
3	MEETING MIN. STAB.	(ENTE	R UP TO	TWO)		4.8	5.3	
2	NONFLUSHING SPEC	(ENTER	(ENTER UP TO THREE) 4.8				5.8	
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIN	NUM BITUMEN CONTEN	T=	5.5					
RECOM	MENDED RANGE=	5.2		5.5				

CITY OF I	PLACERVILL	.E					Sheet	1	of 1
CONTR	ACT CH	ANGE ORDER	_		Change Requested by:	٥	City		Contractor
CCO No.	Suppl. No.	Contract No.	Project				ederal Proje	ct Nun	nher:
15	0	40604	-	lairs Lane B	ridge Replacement	1	BRLO-		
то: Мс	Guire & F	Hester, Inc.							
-			from the plans ar	nd specification	s or do the following described	work not	included in th	e plans	and
s pe cificatio	ns for this con	tract. NOTE: This ch	ange order must	be approved	by the City Council:	\boxtimes	Yes	No	
Description	of work to be	done, estimate of quant	ities and prices to b	pe paid. (Segre	gate between additional work at co	ontract p	rice, agreed prid	ce and f	orce
account.)									
		ion 4-1.05, "Change Tield direction in the			pecial Provisions, install add on driveways.	litional	Drainage In	lets per	r FCD 18,
Extra Wor	k at Force A	Account:							
DEWR 28-1	32.0						9	\$135.30	6
Total CCO	#15 Amoun	t:		••••••		•••••	\$9	,520.3	8
			Es	timated Cost:	omplete compensation for th	eas e	\$9,5	20.38	
		he time of completion	will be adjusted as	s follows:	No additional worki	ng day	/S		
Submitte SIGNATU				PRINT NAME 8	k TITLE)		DA	ΓE	
			,		ves P.E., City Engineer				
Approved					•				
SIGNATUI	RE			PRINT NAME 8			DA	ſΕ	
Approved	1			leve Morris	, City Manager				
SIGNATU			(F	PRINT NAME 8	k TITLE)		DAT	ΓE	
			,						
furnish the payment th requiremen	materials, exceened	ept as may otherwise bes shown above. NOT cification as to proce	be noted above, a E: If you, the con	nd perform all s stractor, do no	nd agree, if this proposal is app services necessary for the work t sign acceptance of this orde nd filing a written protest with	above s	pecified, and vattention is d	will acce irected	ept as full to the
SIGNATUI			(1	PRINT NAME 8	k TITLE)		DA	ΓE	



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

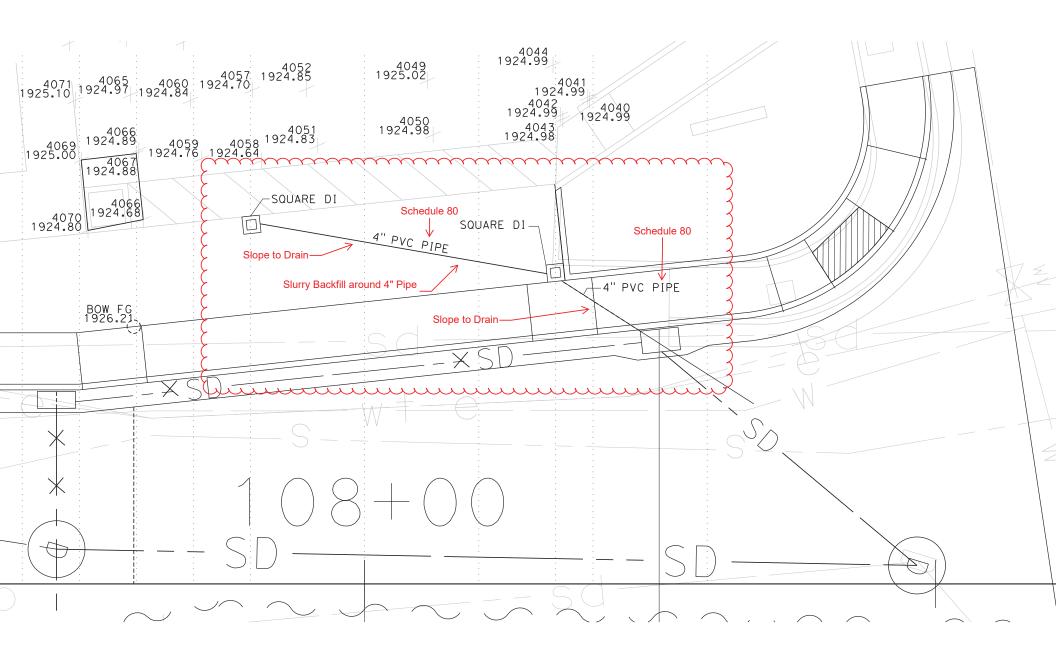
involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed

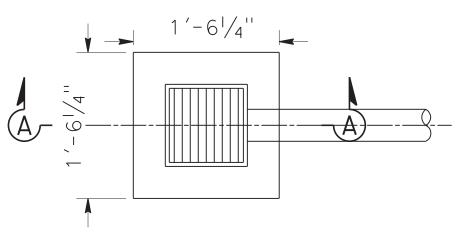
by the City and the Contractor. CITY REPRESENTATIVE:

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

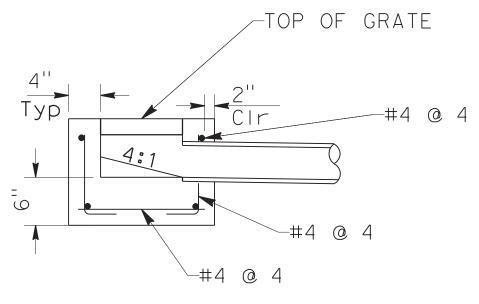
Sh

TITLE: Resident Engineer





SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE



McGuire and Hester

1016 N. Market Blvd Sacramento, CA 95834

Phone: 916-372-8910

Fax: 916-372-8913

REQUEST FOR INFORMATION

Request No.: 033

Title: Caltrans Driveway Requested By: Arnie Garcia

Date: 12/07/2016

City of Placerville To: 3101 Center Street

Placerville, CA 95667

Project No.: M&H #3926

Placerville #40604

Project: Blairs Lane Bridge Replacement

Attn: Carl Sloan (UNICO Engineering)

916-218-8432 Carl@unicoengineering.com

Spec. Section: Page No.:

Drawing No.: Sheet 6

Detail No.:

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.

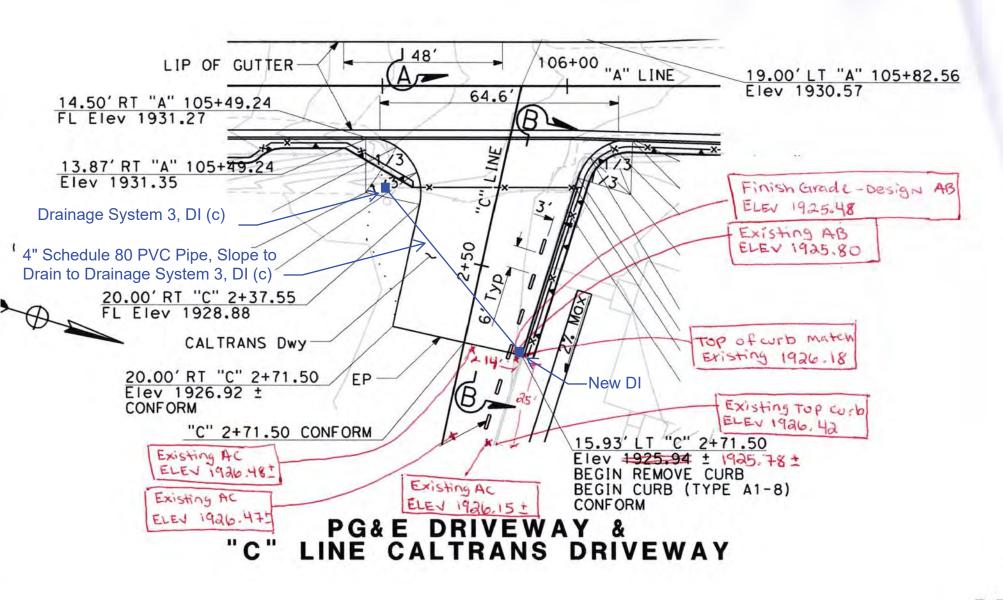
Reply Required by: 12/8/2016	By: Arnie Garcia
	Title: Project Engineer

Response:

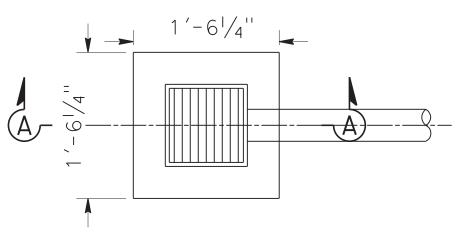
Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

See attached detail for the DI.

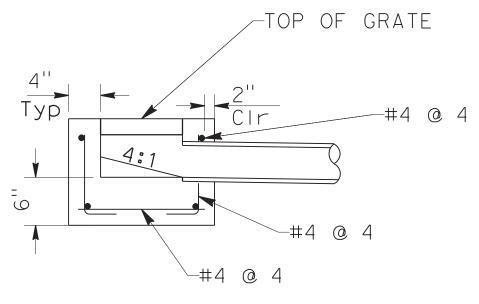
Date:	By:
cc:	Title:



DETA NO SC



SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE

DAILY EXTRA WORK REPORT

City Of Placervil	le							Change Ord		028
	926 - Placerville - Blairs Lane Bridge							Billing Numb		132.0
	cGuire and Hester							Report Date		12/06/2016
Description of Work: Va	alero Driveway Mod.							Perform Date	te	12/06/2016
Labor Charges								L	abor Cha	
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	-		0.00
Equipment Char	ges							1		
Equipment ID	Description	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subtotal Lal	bor	90.57
E01 02292	Ford F-250 Utility Pickup	0.50		22.760			11.38	Subsistence	e	0.00
								Other Exper		0.00
									35.00%	
										31.70
								Labor Total		122.27
								Equ	uipment (Charges
								Subtotal		11.38
								MU	15.00%	<u>1.71</u>
								Equipment 7	Total	13.09
								M	laterial C	harnes
										· ·
									ocontract	
									contract	
								Sub	contract	Charges
								Sub	ocontract	Charges 135.36
								Sub Activity Tota	ocontract	Charges 135.36
Machine 1	McGuire and Hester		Accepted:					Sub Activity Tota	al	Charges
MCUIRE	McGuire and Hester		Accepted: Customer:			Date:		Sub Activity Tota	al	135.36

B-13a



EXTRA WORK REPORT CONSTRUCTION COMPANY

		ſ	M&H JOB NO	:3926				
			EXTRA WOR	K ORDER NO:	98 98	30028		
TO: CITY OF PLACEUTU	il		DATE OF RE	PORT: 12-6	-16			
PROJECT: BLATES LANK	BR		DATE PERFORMED: 12-6-16					
DESCRIPTION OF WORK: Exc	AVATE	<u>- I</u>	USTALL 4	DUCTEL	Ann	٥		
BACKFILL @ VALER	o OI	- For	FUTUR	e Teen	CH D	RIAN)		
SUMMARY OF LABOR AND EQU	IPMENT							
EMPL# EMPLOYEE NAME			RIPTION	TRADE		HOURS		
	21992	<u>F-250</u>	PU	LABOR F	OREMAN	.5		
4948 HUMBRETO MEZA				LABOR				
						-		
`								
					:			
· ·								
SUMMARY OF MATERIAL & SPE	CIALTY	ORCES						
	k, 71,567 - 7. F1 #4.							
MATERIALS FOR	Fil	30 G	DG. YILMO	IAN TO	R6 1	Appril 1		
MATRICIALS FOR	SEL	VAAT 6	A/HEA	DRAIN R	OX & for	RATE		
4	Get	teni d	71101			· vu g Grand		
		4 4 4 7 11	WC.					
		······································				·		

McGuire & Hester Representative

DAILY EXTRA WORK REPORT

Minimum				ILI LAII	., . , , ,	<u> </u>	<u> </u>					
Mary											_	028
Part												
Cabbor Charges											1 '	
Macroproper Name	Description of Work: C	Caltrans & Vale	ero								Perform Date	12/12/2016
Machine County	Labor Charges											
Companies Comp		Employee	Name	RT Hrs	OT Hrs	Subs Units		OT Rate	Subs Rate		RT Labor	
Martial Special Section 1472271 14722716 14722		R Krug		6.00			61.210			367.26	SC 12.00%	206.71
1.00 4948	^{L02} 7359			6.00			75.100			450.60	OT Labor	0.00
Sequence Sequence	L03 1227	JA Day II		6.00			50.260			301.56		
Column Control Column	L04 6728	E Ramire	Z	6.00			50.260			301.56	Subtotal Labor	1,929.25
Equipment Charges Equipment (D Debt) Filt	L05 4948	H Meza		6.00			50.260			301.56	Subsistence	
Comparent Do Description Description RT Hrs OT Hrs RT Rate OT Rate Delay Factor Delay Factor Standard Standard	Equipment Cha	raes									1	
Columb Ford F-250 Utility Pickup 6.00 22.760 136.56 Labor Total 2,004.48 Labor T		_	1	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended		
Material/Specialist Work/Lump Sum or Unit Price Payment Number Date Vendor Name and Description Unit 1900 397.15000 397.15 567.28 355.09 397.25 567.28 355.09 397.25 397.25	E01 02292	Ford F-2	250 Utility Pickup	6.00			22.760			136.56		
Number Date Vendor Name and Description Units Unit Price Extended Surface Surfac	E02 07049	Cat 420I	E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72	Labor Total	2,004.40
Mulbrof Date Modor Name and Description Dults Unit Price Extended Section Secti	Material/Specia			nt							Equipment	Charges
Mol 5119203 12/12/2016 Forguson Enterprises / Material Buy - Printings 1.000 LS 387,150000 387,15000	-		-					Units	Unit Price	Extended	Subtotal	
MOZ 5122837 12/12/2016 Ferguson Enterprises / Material Buy - Frittings 1.000 LS 23.12000 23.120			•								<i>м</i> υ 15.00%	<u>85.09</u>
Mod Source 12/12/2016 Syar Concrete LLC / Slurry Buy 1.000 LS 434.17000 434.17 1.000 LS 29.81000 29.81 1.000 LS 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12000 10.12 10.12000 10.12000 10.12 10.12000 10.12 10.12000		12/12/2016	Ferguson Enterprises / Material Buy - F	ittings					23.12000	23.12	Equipment Total	652.37
Mod 0000265561 12/12/2016 Home Depot / Material Buy - Concrete Mix 1.000 LS 29.81000 29.81 5.0000198329 12/12/2016 Home Depot / Material Buy - Drain Box 1.000 LS 10.1200 10.12	M03 90085								434.17000	434.17	Material C	harane
MoS 0,000198929 12/12/2016 Home Depot / Material Buy - Fittings 1,000 LS 10,12000 745,210 745,210 745,210 12/12/2016 Corix Water Products / Material Buy - Drain Box 1,000 LS 745,21000 745,21000 745,21000 7		12/12/2016	Home Depot / Material Buy - Concrete	Mix					29.81000	29.81		_
Mo6 17613035112 12/12/2016 Corix Water Products / Material Buy - Drain Box 1.000 LS 745.21000 745.21 Material Total 1,874.02			<u> </u>							10.12		
Material Total 1,8/4.02 Subcontract Charges				Orain Box							<i>MU</i> 15.00%	
Activity Total 5,130.87 Bill Subtotal 5,130.87	17010000112	,,	- Colin Traio. Trouvelo, material 24, 2				•	.000 = -			Material Total	1,874.02
Bill Subtotal 5,130.87 McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87											Subcontract	Charges
Bill Subtotal 5,130.87 McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
Bill Subtotal 5,130.87 McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87											Activity Total	5,130.87
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
MCGuire and rester Customer: Date:											Bill Subtotal	5,130.87
MCGUIRE HESTER Customer: Date:												
MCGuire and Rester Customer: Date:												
MCUIRE Date:		McGuire	and Hester		/	Accepted:					Bill Total 👃	5,130.87
		`				Customer:			Date:			,
	HESTER	Joh Contac	et: Hugo Gutierrez (916) 873-2690			Contractor:			Date:		Page 1	



EXTRA WORK REPORT CONSTRUCTION COMPANY

			M&H JOB NO). ZG2/		7			
			:			NO: 9830	020		
TO: (=	- 0						UNX		
	TY OF PLACERUTUS			DATE DEDE		<u> </u>	,		
PROJEC		BR		DATE PERFORMED: 12-12-16					
DESCRI	PTION OF WORK: Th			RAEN In	WIS 1	AND RU	\sim		
Fipe	Connective To			I's 2	@ VAI	kro			
'A-M		RANG							
SUMMA	RY OF LABOR AND EQ	UIPMENT							
EMPL#	EMPLOYEE NAME	EQ#	EQ DESC	RIPTION	TRADE		HOURS		
4273	ROGER KRUG	02292	F-25) PU	LABOR	Foremon	6		
1359	CUETTS SMETH	·	*	•	Open	Asur	6		
17.27	Jesse Day				LAGO	2	Ь		
6728	Enje RAMANER				LAS		6		
4948	Hungero MEZA				LAG	wa/	6		
L		07049	420 E	BACKAGE			8		
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SUMMA	RY OF MATERIAL & SP	ECIALTY	FORCES						
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€ *7-	10 BAGS OF (_		V					
- ,	2 BAGS GROUT	·		y					
	11-61-0	Alle	(1 ×	1					
	- 45 3 22 FETTENCS (1 ESCA) - 3 20" x 20" Can Tears Teares RAMED INCETS								
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<u></u>	***				. \ . \				
£/e	Kosen Kny 12/13/16								
	GEN KNUL R Hester Representative			\Box	Work AL	ンター <u>チリンリ</u> uthorized by / D)ate		
MCGalle 0	i ilostet tiehtesetitative				WOIN AL	amonzeu by / L	ulb		





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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code	Customer Order Number		Sales Person	Job Name		Invoid Date		Batch
610	610	CA09PL	3926		679	BLAIRS LN		12/13/20	016	151996
Ordered	Shipped	Item	Number		Descrip	tion	Unit Price	e UM	Ar	nount
160	160	P40BEPP	20	4X20 FT PVC	S40 BE PIPE		224.0	045 C		358.47

 Invoice Sub-Total
 358.47

 Tax
 28.68

 Total Amt
 387.15

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

FERGUSON ENTERPRISES, INC. a WOLSELEY company

FEI PLACERVILLE #610 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003 B-133

IACCEPT BZO = Y SOURCE = SOE IB FRT = N 0.0 OB SHP = M0.1 10 NEC 2016 11 06 07 WRITER

DRDER NO.	530-522-3281 REQUIRED DATE	FAX: 530 SHIP WHS.	-622-249] SELL WHS.	

STOCK SALES ORDER

SALESMAN

TAG P.O. NO. 5119203 10710716 CUSTOMER NO. CUSTOMER ALPHA | CONTRACT NO. BID NO. ORDER DATE ORDERED BY INSTRUCTIONS OML CONTACT \$11331 MOGHTREAM REFEREN 10700718 OPHITE Sarana Moods S MCGUIRE AND HESTER COUNTER PICK UP VENDOR P.O. NO. 9009 RAILROAD AVENUE 2850 COLD SPRINGS RD 6 OAKLAND, CA 94603 FLACERVILLE, CA 95667-4003 SHIP VIA ROUTE NO. RUN NO. DEPART LITTI I PCS BAGS BOXES CRATES LENGTHS BUNDLES ROUTE DESC. CHST PH: 510-639-7676 CUSTOMER P.O. NO. JOB NAME ATTN: PACKED BY SHIP WT. SHIP DATE **DELIVERED BY** CHECKED BY RECTES IN LINE ORDER OTY. SHIP QTY. RO OTY ITEM CODE DESCRIPTION U/M **UNIT PRICE** TOTAL P.O. NO. **AISLE LOC** 1.60 160 n leangappon AYON ET PVC GAN RE PTPU 224 MAR YHZG: 210 B Th is illegal to install broducts that are not "lead free" in accordance with HS Federal a in physician dater sustems anticipated for human consumption. Products with *NP in dniu be installed in non-potable applications. Ruver is solely responsible for producgelection vatory Faucets with flow rates over fl.5 GPM are NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION, RETURNED MATERIALS INBOUND OUTBOUND LESS SUBTOTAL TAX TOTAL DUE SUBJECT TO HANDLING CHARGES. SHIPPING DEPOSIT SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS

CUSTOMER'S SIGNATURE:

Courts Smith

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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name			Invoic Date		Batch
610	610	CA09PL	3	3926	679	3926		12	2/13/20	016	151996
Ordered	Shipped	Item	Number		Descrip	tion	Unit Pric	e l	υм	An	nount
1	1	P40S4P		4 PVC S40 SX	S 45 ELL	S 45 ELL		755	EΑ		15.76
1	1	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	ELL	5.	650	EΑ		5.65

 Invoice Sub-Total
 21.41

 Tax
 1.71

 Total Amt
 23.12

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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 95557-4003 PH: 530-622-3281 FAX: 530-622-2491 DRDER NO. REQUIRED DATE SHIP WHS. SELLWHS. 122837 12/13/16 610 610 CUSTOMER NO. CUSTOMER ALPHA CONTRACT NO. BID NO.							B-133 STOCK SALES ORDER							ACCEPT SHOWROO SOURCE IB FRT OB SHP 13 DFC WRITER)M = S0 = N = N	= N E 0. 0.
1122 CUSTO 1113: MCG 900 5 OAI	GUIRE A	CUSTOME FICGUT IND HE ROAD CA 94	IREA ISTE AVE 603	R NUE	610 610	12/1 COUNTER F	3/15 ROD	GER RD	SHIP	RUCTIONS			3 LENGTHS BUN	TAG PO. NO. OML CONTAC Separa VENDOR VENDOR PO. I	NO.	RUN NO. DEPART
	MER P.O. NO.	510-6	32	7676 JOB NAM	E		ATTN:		SHIP	WT.	SHIP DAT	12	DELIVERED B	PACKED BY	10	CHECKED BY
	ORDER QTY	SHIP C	C,YT	RO OTY	ITEM CODE			DESCRIPTION		UNIT PRIC	CÉ U	my/	TOTAL	P.O. NO).	AISLE LO
1	1	1	1/		P4NS4P	& PVC	540 SXS 4	5 ELL		15.7	755 EG	1				- X18D
	BECAUSE !	1	\prec					North Heller Control	rical especial				N. Yes	1.3	1.5	J03-C2-
2	hada a kina a kina a	1/	1) n	MUL DADIGA	4 PVC	SWR SW HX	H 22-1/2 FII		5.1	550 EA	1				CEMX
							and a feet of the second								i lb	
						Park Parks	ET SUBLEMEN	Mark Property	16 2 N P 10	e ^t in the second			CANAL	3 8 7 8		service de la constantina
an i	аы ыаг	HING:	T	is il	egal to install	products t	hat are n		in acco						特殊转移	pe 40 40 40 40 40
pli	cable 1	aw ir	pp	table i	later systems an	ticipated f	or human	consumption. P	roducts	aith *N∩	P in t	the c	<u>lescripti</u>	on		5.000
e Ma	II lead	free	20	d can o	nly be installe	d in non-po	table app	lications. Buy	er is so	lelu res	sponsi	ble	for proc	luct select	lon.	C 30 20 20 20 40
					vatoru Faucets				*****	*****	****	6 * 6 * 9	· 张 张 张 张 张 张 张 张 张	**********	关关关关	*****
					' in California		area nash	U.S OFFI AFE	N. Harris	St. N. T.	C4-9 E	3	170000	2		San Day of the
NO RE SUBJE SEE RE	TURNS ALL CT TO HANDL	OWED WI	THOUT ES.	PROPER A	UTHORIZATION. RETURNED MA	TERIALS SUB		INBOUND OUTBOUND Freight Shipping	TAX		LESS Deposit		TOTAL DUE			
USTON						DATE:		CHOTOMED CON	TERMS	:				3		



SYAR CONCRETE LLC RECEIVED PO BOX 2700

NAPA, CA 94558 (877) 792-7649

DEC 15 2016

INVOICE 90085

DATE

MCGUIRE AND HESTER

12/12/2016

Sold To:

MC GUIRE & HESTER 9009 RAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE

CA

Page 1

							20222224
Customer Code MCGUIREHES			ject Code	Purchase Order P3926-08	Job Number 3926	:	Order 50
====							
			Product		Unit of	Unit	Extended
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	су	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	TOTAL DUE
				\$434.17
DISCOUN	T TAX ON			
AMOUNT	DISCOUNT	IF PAID 1	BY YOU MAY DEDUCT	
2.00	0.16	01/10/203	17 2.16	

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!



SYAR CONCRETE LLC

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE	TICKET#
12/12/2016	41024305
P.O. #	JOB#
P3926-08	3926
SYAR ORDER #	<u> </u>
50 DIF	?#e s

(GALLONS)

		* 4 1 0 5	4 3 0 1) * [
SOLD TO		DELIVE		- 17			PLANT CODE	
	GUIREH GUIRE & HESTER		AIRS LAN				41 C.	ameron Pa
1.17	GUIRE & HESTER	EL.	AIRS & B	ROADWAY	PLACERV	ILLE	PLANT LOCATI	ION
	<u></u>					1	3527 Du	rock Rd.
START BATCH/	MIX CYCLE LEAVE PLANT	ARRIVE JOB	START POL	JR FIN	IISH POUR	WASH	TUOI	LEAVE JOB
4 4 6	35 11:55	12.20	12:2	1 1	2,25			
SCHEDULED DEL	CIVERYTIME CU. YDS. ORDERED	CU. YDS. DELIVERED LO	AD#	MIX DESIGN #		SLUMP	U	ISAGE
12:10 2 2 1				SSØ6@NR	5)	3.00 i	T	
QUANTIT	Y PRODUCT CODE	PRODUCT DES	CRIPTION-SEE BA	TCH DATA		UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
2.20	ð SSØ6ØNR9	6 Sack San	d Slurry				уd	
1 . 00	157015	ENVIRONMEN		5E			ea	
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		•	- ياد-مو	_				
		MINIMUM LOA	n ouwner					
HWY 50	BROADWAY @ BL	AIRS LANE	D CHARGE					
1 114.5 1 77.12	DNOTEWHIE DE	HIND THME						
TRUCK#	DI	RIVER			in the second			PREVIOUS TRUCK
8075	JEFF WINGE	The Control of the Co	W.	ASHOUT USED		vo □ DRUI	M COUNTER	
BUYER IS RESP	ONSIBLE FOR PROVIDING SAFE A	CCESS OFF PAVEMENT. The s	size and weight	WATER ADDED AT	CUSTOMER REQI	JEST		
l desire. Your siana	I cause damage to the premises and/ ature below is a RELEASE relieving thi	s supplier and its affiliates from an	v responsibility	EXCESSIVE WAT: TO CONCRETE	ER IS DETRIMENT E PERFORMANCE		SUB TOTAL	
from damage that	at may occur on this premises and/o	or adjacent property such as cur	rbs, sidewalks, X				TAX	
help the driver rer	move mud from the wheels of his/her v	ehicle so that is will not litter the r	public street(s).	REQUES L LOAD 3/4 LOAD	TOR'S NAME	I/4 LOAD	TOTAL	
Additionally, the t	undersigned agrees to indemnify and filliates for any and all damage to the p	truck and this	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u> </u>	
claimed by anyon	e to have arisen out of delivery of this	order.	, ,	LONS) (GALLONS)	(GALLONS) (G	SALLONS)		

WEIGHMASTER CERTIFICATE

THIS ISTO 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

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.

Department of Food	and Agriculture.		amovina beamore and rividescend dode, administered by the bivision of weasthement standards of the camofina
Weighmaster:	ROBERT STACY	·	
Batch Data	,		
	DS SS060NR9	User user Returned	Disp Ticket Num Ticket ID Time Date 41024305 41218 11:35 12/12/16 Oty Mix Age Seq Load ID D 24301
CEMII/V CONSAND	esign Oty Requi 565.0 16 1130.0 2544 16 5321	red Batched 1b 1130.0 1b 1b 5300 1b	% Moisture Actual Mat 4.57% M 28 gl
WATER Actual Load Total: Slump: 3.00	60.00 GL 40 Num Batches: 1 6430 lb Design	୦୫୮ କ୍ଷୟ ୧୯.୫୫ Water/Cement	Menual 11:35:20



B-133

CERTIFICATE OF COMPLIANCE

	READY MIX CONCRETE		-
TO: Mc Guire	\$ Hester		
We certify that the Portland cement below are bi	t, chemical and mineral admixt rands stated and comply with s	ures contained in the l pecifications for:	material described
MIX ID:	CONTRACT NUMBER:	SIAIR Rd.	Placeru'ill
CEMENT BRAND:	TERMINAL LOCATION:		
Nevada Cemer		mento	TYPE:
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S. TOK DOX II A CITE	MINERAL ADMIXTURE	JSED	
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LIST DELIVERY TAG NUMBERS:	2216		
AUTHORIZED SIGNATURE:	7		



600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530\6269751

1085 00002 65561 CASHIER SARAH

12/12/16 08:55 AM

0000-533-829 80# SAKRETE <A> 80LB SAKRETE CONCRETE MIX 803.45

27.60

SUBTOTAL SALES TAX TOTAL XXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 251476/2022473

27.60 2.21 \$29.81 29.81 TA

P.O.#/JOB NAME: 3926



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. B More doing.**

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM

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

049081133160 PVC BUSHING <A> 1.26

1-1/4"X1" PVC BUSHING SPGXS
0000-193-712 PVC40 PEPIPE <A> 2.53

3/4" X 10' PVC40 PE PIPE

SUBTOTAL SALES TAX TOTAL
XXXXXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 446043/2012228

AUTH CODE 446043/2012228

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P.O.#/JOB NAME: 3926



RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON

Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 McClellan, CA 95652-2027

Tel: 1-855-284-1127 Fax: 916-640-8864 www.corix.com

INVOICE

COLIX Water Products

> Invoice Number: 17613035112 Invoice Date: 12/14/16

> > Page: 1

Bill To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603

Ship To: Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 MCCLELLAN, CA 95652-2027

USA

Cust No. Terms

Due Date

MCGHES

2% 10th next month net 30th next month

01/30/17

PST Exempt No.

SalesPerson Creator

Ship Via

Ship Date

Dale Rasmussen **JOGONZALEZ**

CUSTOMER PICK UP

12/12/16 P.O. Number

Our Order No. 17612036919

P.O. Date

Cust Job Name Blairs Lane Bridge Replacement

12/12/16

3926

GST Exempt No.

Posted By

NVERNON

Job No.

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 ***

Taxable Amount 690.00

Tax Exempt Amount

0.00

Subtotal: Invoice Discount: Total Sales Tax:

690.00 0.00 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

			A WORK IN					t and the second	
City Of Placervil								Change Order	028
	926 - Placerville - Blairs Lane Bridge							Billing Number	134.0
	IcGuire and Hester							Report Date	12/13/2016
Description of Work: Ca	altrans 7 Valero							Perform Date	12/13/2016
Labor Charges								Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs U	nits 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
Equipment Char	rges								
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
Material/Special	ist Work/Lump Sum or Unit Price Payme	nt						ми 35.00%	<u>174.79</u>
Number	Date Vendor Name and Description				Units	Unit Price	Extended	Labor Total	674.17
M01 0000100339	12/13/2016 Home Depot / Material Buy - Concrete	And Grout		1	.000 LS	40.34000	40.34		
								Equipment	_
								Subtotal	229.68
								<i>MU</i> 15.00%	<u>34.46</u>
								Equipment Total	264.14
								Material C	harges
								Subtotal	40.34
								<i>м</i> υ 15.00%	<u>6.05</u>
								Material Total	46.39
								Subcontract	Charges
								Activity Total	984.70
								Bill Subtotal	984.70
	McGuire and Hester		Accepted					Bill Total +	984.70
M'CUIRE HESTER			Custome	r:		Date:		T	22 0
	Job Contact: Hugo Gutierrez (916) 873-2690		Contracto			Date:		Page1	
	JOD Contact. Hugo Gutterrez (910) 073-2090		Contracto	•		Dal€.			



EXTRA WORK REPORT CONSTRUCTION COMPANY

	м&н JOB NO: 39 26									
_	EXTRA WORK ORDER NO: 9830028									
TO: CITY OF PLACERVILLE	DATE OF REPORT: 12-13-14									
PROJECT: BLAZES LANE BR	DATE PERFORMED: 12-13-16									
DESCRIPTION OF WORK: JACK HAMMER										
SUMMARY OF LABOR AND EQUIPMENT										
11000	ESCRIPTION TRADE HOURS									
4773 KOGER KRUG- 02292 F-2	50 PU LABOR FOREMON 4									
6728 Ease RANGEZ	<u> </u>									
	·									
05034 Az	2 Compalsion B									
CHAMADY OF WATERIALS CREAM TY FORCE										
SUMMARY OF MATERIAL & SPECIALTY FORCE										
Kegrade Dwys Not	included -works will be date.									
pertorn at a later	aute.									
2- BACS FAS	& SETTENC CONCRETE									
2- Bacs No	N SHARNK GROVE									
L										
Rocka - KRUG-	12/21/16									
McCuire & Heater Benragentative	Morle Authorized by Deta									



More saving. More doing.

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 CASHIER SANDRA 12/13/16 07:30 AM

0000-842-303 50# FAST SET <A>
50LB FAST SETTING CONCRETE MIX
203.98 7.96
NLP Savings \$1.40
764661163503 50#GROUT <A>
50LB NON-SHRINK CONSTRUCTION GROUT
29.40

SUBTOTAL 37.36 SALES TAX 2.98 TOTAL \$40.34 XXXXXXXXXXXXXXXX6213 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.



McGuire & Hester Representative

EXTRA WORK REPORT CONSTRUCTION COMPANY

			M&H JOB NO	3926		
			EXTRA WOR		NO: 98300	989
TO: City of Percentur	6_		DATE OF RE	PORT:	-19-16	
PROJECT! RLASAS LANG	BR		DATE PERFO	DRMED: /	2-19-16	
DESCRIPTION OF WORK: Re	- GRAC	SE CA	TRANS	Drave	WAS AF	TER
DIGGING TRENCH	Fore	NEW	DEATH	INSO	-1	
· ·	,					
SUMMARY OF LABOR AND EQ	JIPMEN	ranga.	ni Pinalis a sa			
EMPL # EMPLOYEE NAME	EQ#	EQ DES	CRIPTION	TRADE		HOURS
4273 Rocer Krue	02297	F-25	TO PU	LABOR	Forenen	1
7359 CUETIS SMITH			•	OPERA	•	1
1727 LESSE DAY	-			L	130-12	1
/	09043	SKID	LOADER			1
	15026	481.	Rover			
			^			
				is as contra		
SUMMARY OF MATERIAL & SPI	A PIALEN	FURUE				
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<u> </u>						
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Rocer Kews-			<i></i>	A-16	12/2	1/16

DAILY EXTRA WORK REPORT

		<u> </u>	A WORK REP	<u> </u>				
City Of Placervil	le						Change Order	028
Contractor Job: 39	926 - Placerville - Blairs Lane Bridge						Billing Number	135.0
	cGuire and Hester						Report Date	12/19/2016
Description of Work: Ca	altrans Driveway						Perform Date	12/19/2016
Labor Charges							Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate Subs Rate	Extended	⊣	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
- ⁰³ 1227	JA Day II	1.00		50.260		50.26		
Equipment Char	ges						Subtotal Labor	208.96
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
09043	John Deere 210 LJ Skip Loader	1.00		57.010		57.01	MU 35.00%	<u>73.14</u>
15026	CB 224E 47" Double Drum AC 06	1.00		56.810		56.81	Labor Total	282.10
							Equipment	_
							Subtotal	136.58
							<i>м</i> υ 15.00%	<u>20.48</u>
							Equipment Total	157.00
							Material C	harges
								gee
							Subcontract	Charges
							Activity Total	439.16
							Bill Subtotal	439.1
	McGuire and Hester		Accepted:				Bill Total ∔	439.1
M'CUIRE HESTER			Customer:		Date:			
HESTER	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:		Date:		Page 1	

DAILY EXTRA WORK REPORT

				AWORKKILL	<u> </u>					
City Of Placervil									Change Order	028
		erville - Blairs Lane Bridge	Э						Billing Number	136.0
Work Performed By: M									Report Date	12/20/2016
Description of Work: Ch	nevron Drive	way							Perform Date	12/20/2016
Labor Charges									Labor Cha	
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 Sullivar	າ	1.50		50.260			75.39	OT Labor	0.00
L03 3844	C Jones		1.50		50.260			75.39		
Equipment Char	ges								Subtotal Labor	305.99
Equipment ID	Description	1	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-2	250 Utility Pickup	2.00		22.760			45.52	Other Expenses	0.00
Material/Special	ist Work/L	ump Sum or Unit Price	Payment						ми 35.00%	107.09
Number	Date	Vendor Name and Description			I	Units	Unit Price	Extended	Labor Total	413.08
M01 5136232	12/20/2016	Ferguson Enterprises / Materi	ial Buy - Fittings		1.	.000 LS	70.47000	70.47		
M02 17613035655	12/20/2016	Corix Water Products / Materi	ial Buy - Drain Box		1.	.000 LS	248.41000	248.41	Equipment	_
									Subtotal	45.52
									<i>MU</i> 15.00%	<u>6.83</u>
									Equipment Total	52.35
									Material C	harges
									Subtotal	318.88
									MU 15.00%	47.83
									Material Total	366.71
									Subcontract	Citalyes
									Activity Total	832.14
									Bill Subtotal	832.14
(Column 1)	McGuire	and Hester		Accepted:					Bill Total +	832.14
MCUIRE				Customer:			Date:			
THE LEK	lob Cont	ot. Hugo Cutions - (040) 070 0	600	0			Deter		Page 1	
	Job Contac	ct: Hugo Gutierrez (916) 873-20	UEO	Contractor:			Date:		. ugu	



EXTRA WORK REPORT

CONSTRUCTION COMPANY

	MAH IOD NO. 2021							
	M&H JOB NO: 3926							
	EXTRA WORK ORDER NO: 9830020							
TO: CITY OF PLACEPULUE	DATE OF REPORT: 12-20-16							
PROJECT: BLACKS LAVE BR	DATE PERFORMED: 12-20-16							
DESCRIPTION OF WORK: JOENTITY DA	SINAGE PROSES WITH LAZER							
AND THERAID DIG AND INS								
DI @ STATION # 108+30								
SUMMARY OF LABOR AND EQUIPMENT								
EMPL # EMPLOYEE NAME EQ # EQ DES	CRIPTION TRADE HOURS							
4273 ROSER KRUL 07292 F-25								
7560 KEWEN SULTIMA	LABOR 1.5							
3844 CHEES JONES	1.5							
SOIT CHES SINES	LAU C 113							
·								
SUMMARY OF MATERIAL & SPECIALTY FORCES								
	_							
FERGUSON ENTERPRISES	INC.							
2 - 4" 22° FETTENGS								
1-4" Couples								
1- Can PUC CEMENT								
The same of the sa								
CORIN WATER PRAS								
	VX S							
V-12 ORAGN BOX								
U-12 STEEL GRAND								
	14							
Koull Kevi	April 19191116							
McGuire & Hester Representative	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
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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name		Invoic Date	Batch	
610	610	CA09PL	3	3926	679	BLAIR'S & BROADWAY		12/20/2016		152362
Ordered	Shipped	Item	Number	Description			Unit Price	UM	An	nount
1	1	H25515		4 0Z PRO-PO	4 OZ PRO-POXY EPOXY 20			90 EA		5.99
1	1	P40SCP		4 PVC S40 SX	4 PVC S40 SXS COUP			33 <i>EA</i>		5.58
1	1	031020		32 OZ PVC MI	32 OZ PVC MED CLR CMNT			63 <i>EA</i>		20.66
2	2	PSDTC26	60S	2X60 DUCT TAPE PREM GRD SILV			10.86	60 EA		21.72
2	2	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	? ELL	5.65	50 EA		11.30

 Invoice Sub-Total
 65.25

 Tax
 5.22

 Total Amt
 70.47

TOTAL DUE ---> 70.47

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

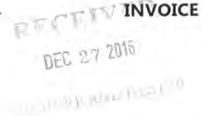
WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

7/		UJUI	A EIA 1		EJ, MTC.	a WOLSELLY com	pany								SHOWROOM SOURCE =		and the second
FE	I PLAC	ERVELLI	E #610			· · · · · · · · · · · · · · · · · · ·									IB FRT =		
		D SPRI		s mmm											OB SHP =	M . 716 10	.O.
171		i.l., i., i.,	A 95667	**************************************				*							20 DEC 21 WRITER	SALES	SMAN
HCI ORDER NO	: 530-	-622-32	91 FA	X: 530-622- HPWHS. SELLW	-249 <u>)</u> HS.			STOCK	SA	L E S	ORD	ER			TAG P.O. NO.	ñï	<u> 79 — </u>
13623	2	12/2	0/16	610 6	10												
CUSTOMER		44 A. S. S. S.	PHA CONTRA	ACT NO.	BID NO.	ORDER DATE	ORDERED BY		INST	RUCTIONS					OML CONTACT		·
11331	ļ,	<u> 1CGUILRE</u>	AN L			1.2/20/16	I ROGER CR	'Fbl	—						<u>Aaron Ima</u> VENDOR	<u>schwel</u>	ller
S MOGH	ITRE ON	ID HEST	e p		s cr	OUNTER PICK	(JD										
9009	RAILE	VA CAOS	ENUE			350 COLD SPE									VENDOR P.O. NO.		
OAKL	AND, C)A 9450	3		P P	LACERVILLE,	CA 95667-4	.003	SHIP	VIA					ROUTE NO.	RUN N	IO. DEPAR
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o					Ö			•	PCS		BOXES	CRATES	LENGTHS	BUNDLES	ROUTE DESC.		
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CUSTOME	R P.O. NO.		JOB NAM	,		ATTN:			SHIP	' W I.	SHIP D	AIE	DELIVER	HED BY	PACKED BY	CHEC	YCD DI
GOS LINE O	RDER OTY.	SHIP QTY.	TRLAT	R'S & BROAD	OMAY CODE		DESCRIPT	TION		UNIT PRI	ICE	U/M	TOTAL	 L	P.O. NO.		AISLE LO
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	la classica.														^{roll} (1. A	lb 📗	
				MATERTAL SI	<u>AFFTY DATA</u>	A SHEETS ARE	<u> </u>	UPON REQUES	9T				6.0 March		(C. (6.6)		
			Transfer State of the State of	P40SCP		4 PVC S40	ava volta			F	583 E	n O					X18I
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SIGNATUR					<u> </u>	DATE:	· · · · · · · · · · · · · · · · · · ·	rest of the second seco									
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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 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

Cust No.

Item No.

WWV12

MCGHES

Terms

2% 10th next month net 30th

Description

V12 DRAIN BOX H20

V12 STEEL GRATE HD

next month

Due Date

PST Exempt No.

01/30/17

SalesPerson Creator

Ship Via

Ship Date

12/20/16

OUR TRUCK

Dale Rasmussen JOGONZALEZ

P.O. Date P.O. Number 12/20/16

3926

1

Our Order No. 17612037662 Cust Job Name Blairs Lane Bridge

Replacement

GST Exempt No.

WWV1271W420

Posted By

NVERNON

Unit

EA

EA

Job No.

1

Total Price Order Qty Quantity **Unit Price** 130.00 1 130.00

100.00

*** If Paid by 01/10/17, discount available = \$4.60 ***

0,00

Taxable Amount

Tax Exempt Amount

230.00

Subtotal: Invoice Discount: Total Sales Tax:

230.00 0.00 18.41

100.00

Total:

248.41

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

Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway Labor Charges		028 137.0 12/21/2016
Work Performed By: McGuire and Hester Description of Work: Chevron Driveway Labor Charges Labor ID Employee Name REPORT Perfor REPORT Perfor REPORT Perfor REPORT Perfor REPORT Perfor RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended	ort Date	
Description of Work: Chevron Driveway Labor Charges Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended RT Labor ID Employee Name		,, _ 0 . 0
Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended		12/21/2016
Laborito 171113 OTTHIS Cabs Office 1711Acc Cabs Natic Extended	Labor Char	
L01 4273 R Krug 1.00 1.00 61.210 80.710 141.92 sc	Labor	563.81
	C 12.00%	67.67
L ₀₂ 7560 K Sullivan 5.00 50.260 251.30 OT La	Labor	80.71
L03 3844 C Jones 5.00 50.260 251.30 SC	C 12.00%	9.69
Equipment Charges Subto	ototal Labor	721.88
	osistence	0.00
E01 02292 Ford F-250 Utility Pickup 2.00 22.760 45.52 Other	er Expenses	0.00
Material/Specialist Work/Lump Sum or Unit Price Payment	1U 35.00%	<u>252.66</u>
Number Date Vendor Name and Description Units Unit Price Extended Labor	oor Total	974.54
M01 90281 12/21/2016 Syar Concrete LLC / Material Buy - Slurry 1.000 LS 382.87000 382.87		
M02 0005625058 12/21/2016 Home Depot / Material Buy - Concrete & Mortar Bags 1.000 LS 30.41000 30.41	Equipment C	_
Subto MU		45.52 <u>6.83</u>
		52.35
	uipment Total	JZ.33
	Material Ch	ıarges
Subto	ototal	413.28
MU	15.00%	<u>61.99</u>
Mater	terial Total	475.27
	Subcontract (Charges
Activi	ivity Total	1,502.16
Bill S	Subtotal	1,502.16
McGuire and Hester Accepted: Bill To	Total +	1,502.16
MCGUIRE HESTER Customer: Date:		
	ge <u>1</u>	

B-137



EXTRA WORK REPORT CONSTRUCTION COMPANY

		M&H JOB NO	3926				
			K ORDER NO: 983	らいとい			
TO: CITY OF PLACEOUS	1186	DATE OF REPORT: 12-21-16					
PROJECT: BLATES LANG	B.R.	DATE PERFO	DRMED: 12-21	-16			
	WISH NEW		@ CHCURIN	Drewn			
April STATION 108+10	- 108+30	Pove	SAND SURRY	(AD)			
AUD MOORE AU	- 4 Box's	, , , , , , , , , , , , , , , , , , , ,	7				
SUMMARY OF LABOR AND EQ							
EMPL # EMPLOYEE NAME	EQ# EQ DES	CRIPTION	TRADE	HOURS			
4273 Kocce Kruce	02292 F-25	o Pu	LASOR FORCE	1//07 كسير			
7560 KEURN SULEUM			LAOR	5			
3844 CHEES JONES			LABOR	5			
SUMMARY OF MATERIAL & SP	ECIALTY FORCES						
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Korea Keve	_		inst hone	12/31/16			
McGuire & Hester Representative		_	ノ Work Authorized b	v / 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 BAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE CA

Page 1

***	**********						
10000	omer Code UIREHES		ject Code 84	Purchase Order P3926-08	Job Number 3926	7	Order
			Product	************************	Unit of	Unit	Extended
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price
12/21	41024366	1.50	SSOCONR9	SAND SLURRY	dy	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



TOTAL YARDS	TAXABLE AMOUNT	8.000 TAX	NON-TAXABLE	
1.50	354.50	28.37	0',00	TOTAL DUE
********		************		\$382.87
DISCOUN	T TAX ON			
AMOUNT	DISCOUNT	IF PAID B	Y YOU MAY DEDUCT	
1.50	0.11	01/10/201	7 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).



EW-DI'S

B-137

SYAR CONCRETE LLC

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE	TICKET #	
12/21/2016	41024366	5
P.O. #	JOB#	
P3926-09	3926	· .
SYAR ORDER #	<u> </u>	
10 DIR	1 2 2	

<u> </u>		* 4 1 Ø	2 4 3	5 6 *	L			·
SOLD TO		1 Ma	DELIVER TO		-		PLANT CODE	
MCGUIRE	-H		BLAIRS	LANE BE	RIDGE REPLA)m	41 0	ameron Pa
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in party, page provi sen in	distance that if I control take a large of a					* A Par distant them.	. 1	rock Rd.
START BATCH/MIX CYC	E LEAVE PLANT	ARRIVE JC	D 9	START POUR	FINISH POUR	Ι ΜΔ	SHOUT	LEAVE JOB
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8053	MARK WOONE	R	<u>. 1</u>	WASHOU	T USED YES 🔀	NO 🔲 DI	RUM COUNTER	TIL AND THE
BUYER IS RESPONSIBLE	FOR PROVIDING SAFE A	CCESS OFF PAVEMEN	T. The size and	weight WATER	ADDED AT CUSTOMER I		SUB TOTAL	
decire. Vour signature held	amage to the premises and w is a RELEASE relieving this	s supplier and its affiliate:	s from any respon	sibility To	CONCRETE PERFORMA		TAX	
from damage that may o	ccur on this premises and/onprovements, buildings, etc.	or adjacent property suc	h as curbs, side	walks, X			TOTAL	
hain the driver remove mile	d from the wheels of his/her v	vehicle so that is will not l	itter the public str	'eet(s). I full loan	REQUESTOR'S NAME 3/4 LOAD 1/2 LOAD	1/4 LOAD	IOIAL	
Additionally, the undersign	ned agrees to indemnify and ir any and all damage to the i	I hold harmless the drive	er of this truck ar	nd this		10/	· · · · · · · · · · · · · · · · · · ·	W
claimed by anyone to have	arisen out of delivery of this	order.	proporty, willow in	(GALLONS)	(GALLONS) (GALLONS)	(GALLONS)		
SIGNED:			<u> </u>			co ro	roi.	· ·
CUSTOMER HAS BECE	VED AND REVIEWED THIS	S DELIVERY TICKET/TI	ERMS AND CON	IDITIONS. CUSTO	MER AGREES TO THE	TERMS AND	! I-!_	
CONDITIONS STATED IT	EREIN, INCLUDING ALL OF	THE TERMS AND CON	IDITIONSSTATE	ED THE FRONT AN	D BACK OF THIS DELIV	ERY HUKET.		لم)
Signed:								
THIS IS TO CERTIFY that to prescribed by Chapter 7(c) Department of Food and A	the following described common to the following described common to the following with Section 127 agriculture.	WEIG modity was weighed, me 7000 of Division 5 of the C	SHMASTER CER asured, or counte California Busines	RTIFICATE ed by a weighmaste is and Professions (r, whose signature is on the Code, administered by the	nis certificate, who a Division of Mea	o is a recognized a surement Standard	uthority of accuracy as is of the California
Weighmaster: ₽(BERT STACY							
150	and Aport paragraph 10 5 Service 2 5 Service 2							



600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM CASHIER SELF CHECK OUT

000110041000 IOP II	.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <a> 50LB FAST SETTING CONCRETE MIX	
2@3.98	.96
NLP Savings \$1.40	4
727096305559 RAPID MORTAR <a> 14	1.45
RAPID SET 55LB MORTAR MIX	

SUBTOTAL.	28.16
SALES TAX	2.25
TOTAL	\$30.41
XXXXXXXXXXXXXX6213 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.



1085 56 25058 12/21/2016 5799

DAILY EXTRA WORK REPORT

	אט		A WORK ILL	OIVI					
								Change Order	028
								Billing Number Report Date	143.0 12/30/2016
								Perform Date	12/30/2016
	MacGuire and Hoster MacGuire and Hoster MacGuire and Hoster								
Labor Charges								Labor Cha	
			OT Hrs Subs Units		OT Rate	Subs Rate		RT Labor	186.57
L01 4273								SC 12.00%	22.39
L02 7359								-	0.00
L03 7560	K Sullivan	1.00		50.260			50.26		
Equipment Cha	arges							Subtotal Labor	208.96
	•		OT Hrs		OT Rate	Delay Factor		Subsistence	0.00
E01 02292				22.760			22.76	Other Expenses	0.00
E02 02268	· · · · · · · · · · · · · · · · · · ·						22.76	<i>ми</i> 35.00%	<u>73.14</u>
E03 02211	Ford F250 2008 3/4 ton xcab	1.00		22.760			22.76	Labor Total	282.10
Material/Specia	alist Work/Lump Sum or Unit Price Payme	ent							
					Units		Extended	Equipment	•
M01 90450	12/30/2016 Syar Concrete LLC / Concrete Buy			1	.000 LS	117.72000	117.72		68.28
								<i>MU</i> 15.00%	<u>10.23</u>
								Equipment Total	78.51
								Material C	harges
								Subtotal	117.72
								<i>м</i> υ 15.00%	<u>17.66</u>
								Material Total	135.38
								Subcontract	Charges
								Activity Total	495.99
								D	405.00
								Bill Subtotal	495.99
	McGuire and Hester		Accepted:					Bill Total +	495.99
M'GUIRE HESTER			Customer:			Date:			
HESTER						_		Page1	
	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:			Date:		ı ay c '	

NTS Special Bill Form



EXTRA WORK REPORT

CONSTRUCTION COMPANY

					M&H JOB N	<u>0: 3926</u>		
		<u> </u>			EXTRA WO	RK ORDER	NO: 9830	028
TO: C _I	TY OF	PLACEQUELL	Ł		DATE OF RI	EPORT: 12	-30-16	
PROJEC	OT: 1 RUE	-ne / Ani	e Ri	7	DATE PERF	ORMED: 1	2-30-16	
DESCRI	PTION OF	WORK: Cu	T OUT	A/C	ANO	Pour	Conversa	7/5
ŧ		Moura	DRAE			(31)		7.5
				- · · · · · · · · · · · · · · · · · · ·				
SUMMA	RY OF LA	BOR AND EQ	UIPMEN.	T				
EMPL#	T	EE NAME	EQ#	T T	CRIPTION	TRADE		ПОПРО
4273		Keva	02292		D PU	_	- 15	HOURS
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7560	VENN	SULFUAN	02711	F.25		1 1 1	moon	
onth	REUSA		102/11	F. C		<u> </u>	07C	/
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K00	ier Kn) W				tut let	1/17/	b
McGuire &	Hester Re	presentative			(Work Au	thorized by / D	ate



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 MCGUIREHES		Project Code 4584		Purchase Order P3926-08	Job Number 3926		Order 8	
	=========		Product	=======================================	Unit of	Unit	Extended Price	
Date	Ticket #	Qty	Code RP060AR5	Product Description CONCRETE	Measure	101.00	707.00	
12/30	41024436	7.00	113065	SYAR SET 55	/Y	8.00	56.00 80.00	
12/30	41024436	1.00	157005	MINIMUM LOAD CHA STANDBY CHARGE	ea	2.00	74.00	
12/30	41024436	1.00	157000 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

JAN 05 2017
MCGUIRE ANDER

NON-TAXABLE 8.000 TAX TOTAL YARDS TAXABLE AMOUNT TOTAL DUE 855.00 68.41 \$997.41 TAX ON DISCOUNT IF PAID BY YOU MAY DEDUCT DISCOUNT AMOUNT 7.53 01/10/2017 0.53 7.00

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 PLACERVILI	_E		/	Sheet	1	of 1
CONTRACT CH	ANGE ORDE	R	Change Requested by:	City		Contracto
CCO No. Suppl. No.	Contract No. 40604	Project Blairs Lane	Bridge Replacement			
To: McGuire & I	lester, Inc.			ne alle a transcription de la representation de la representation de la representation de la representation de		
		es from the plans and specification	ons ordo the following described work		Project Number: RLO-5015(009) ed in the plans and No	and
specifications for this con	tract. NOTE: This c	change order must be approve	d by the City Council:	⊠ Yes [No	
Description of work to be	done, estimate of qual	ntities and prices to be paid. (Segi	regate between additional work at contra	ct price, agreed p	rice and fo	orce
account.)					nacional de la constitución de l	
In accordance with Sect Engineer.	ion 4-1.05, "Chan	ges and Extra Work," of the	Special Provisions, work premiur	n time as direc	eted by th	ne
Extra Work at Force	Account:					
DEWR 24-109.0					\$50.94	1
DEWR 24-110.0					. \$235.21	l
DEWR 24-111.0	**************			,	. \$241.51	į
					-	
					City	
					,	
otal CCO #14 Amount	·•			\$	5,164.78	;
The contractor agrees to	accept the lump s	um of \$5,164.78 as full and o	complete compensation for this ch	nange order.		
		Estimated Cos	t: Decrease 🛭 Increase	\$5.1	164.78	
By reason of this order th	ne time of completion	will be adjusted as follows:	No additional working o			
Submitted by				20073		
SIGNATURE		(PRINT NAME	& TITLE)	D/	ATE,	,
Moreca 1/2	vez	Rebecca No	eves P.E., City Engineer	2	:/23/	17
Approved						
SIGNATURE		(PRINT NAME		DA	ITE	
		Cleve Morri	is, City Manager			***************************************
Approved SIGNATURE		(DDINT MARKE	O TITLEY	150	70	
SIGNATURE		(PRINT NAME	& IIILE)	DA	il E	
Mo the undersioned have	niven pareful pareid		7 Ibis	d shadows will am	a de alta	
			ot sign acceptance of this order, yo			
			and filing a written protest within th			
Contractor Acceptance		o month	The state of the s	- carrow and comment	- p = 0 silva .	
SIGNATURE		(PRINT NAME	& TITLE)	DA	TE	
$\ll 2M \leq 1$					-11-	1,-
//// XT		UEF- HO	EDEL UP AREA MWAGE	n	LILL	117

CONTRACT CHANGE ORDER Contract No. Suppl. No. Contract No. 14 0 0 6004 Project Number: Fooderal Project Number: BRIAD-6015(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 from the contract No. 1715. This change order must be approved by the City Council: Street No. 182 No.	CITY OF	PLACERVILL	E			Sheet	1 of 1			
To McGuire & Hester, Inc. To McGuire & Hester, Inc. To McGuire & Hester, Inc. 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 content of the following described work not included in the plans and specifications for this content of the following described work not included in the plans and specifications for this content of the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications or do the following described work not included in the plans and specifications, work premium time as directed by the Cty Council 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 24-110	CONTR	RACT CHA	ANGE ORDE	R	Change Requested by:					
To: McGuire & Hester, Inc. Von 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 or the contract of the contract. NOTE: This change order must be approved by the City Councit. Von					Bridge Replacement					
Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract prices, 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	то: Ме	Guire & F	lester, Inc.					<u> </u>		
Description of work to be done, estimate of quantities and prices to be paid. (Segregate between additional work at contract prices, 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	You are dir	ected to make	the following change	s from the plans and specification	ns or do the following described wo	rk not included in t	he plans and	d		
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 24-100						The second second second	-			
Extra Work at Force Account: DEWR 24-10.0		n of work to be o	done, estimate of quar	ntities and prices to be paid. (Segre	gate between additional work at conti	ract price, agreed pr	rice and force)		
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CONTRACT CHANGE ORDER Change Requested by: City Contract No. Contract No. 40604 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 proces to be poid. (Sogregate 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	CITY OF	PLACERVILL	E				Sheet	1	of	1
To: McGuire & Hester, Inc. To	CONTR	RACT CHA	ANGE ORDER		Change Requested by:	$ \boxtimes $	City		Cont	ractor
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Estimated Cost: Decrease Increase S5,339.13 By reasoporthis order the time of completion will be adjusted as follows: No additional working days Submyted by Signature (PRINT NAME & TITLE) Signature (PRINT NAME & TITLE) Approved Signature (PRINT NAME & TITLE) Signature (PRINT NAME & TITLE) Cleve Morris, City Manager Approved Signature (PRINT NAME & TITLE) Signature (PRINT NAME & TITLE) Cleve Morris, City Manager Approved Signature (PRINT NAME & TITLE) Signature (PRINT NAME & TITLE) Cleve Morris, City Manager Approved Signature (PRINT NAME & TITLE) 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		n of work to be d	lone, estimate of quantil	ties and prices to be paid. (Segre	gate between additional work at co	ntract price,	, agreed pri	ce and	force	
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The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order. Estimated Cost:	Extra Woi	rk at Force A	ccount:							
The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order: Estimated Cost	DEWR 27-	94.0					\$5	,339.1	3	
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CONTR	RACT CH	ANGE ORDE	R	Change Requested by:			Contract			
CCO No. 13	Suppl. No.	Contract No. 40604	Project Blairs Lane B	ridge Replacement						
To: Mc	NTRACT CHANGE ORDER Change Requested by: City									
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CONTRACT CHANGE ORDER Change Requested by: City Contract No. Contract No. 40604 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 proces to be poid. (Sogregate 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	CITY OF	PLACERVILL	E				Sheet	1	of	1
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The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order. Estimated Cost:	Extra Woi	rk at Force A	ccount:							
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	PLACERVILI				She	et 1	of 1
CONTR	RACT CH	ANGE ORDE	R	Change Requested by:			Contract
CCO No. Suppl. No. Contract No. Project 13 0 40604 Project Blairs Lane		1 -	ridge Replacement		roject Nu LO-5015		
To: Mc	Guire & F	Iester, Inc.					
			es from the plans and specification change order must be approved		ork not included Yes	in the plans	and
Description account.)	of work to be	done, estimate of qua	ntitles and prices to be paid. (Segre	gate between additional work at cont	ract price, agree	d price and	force
		ion 4-1.05, "Chan in FCD 7 and CC	ges and Extra Work," of the S O 4.	pecial Provisions, clean tanks	and filtration	equipmen	t used to
xtra Wor	k at Force A	Account:					
DEWR 27-	94.0					\$5,339.1	3
tal CCA	#12 Amount		***************************************			e = 330 1	13
лаг ССО	#13 Amount			********************************	************	33,J3Y.1	,3
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MAKE	in the contract of the contrac	lves	Rebecca Ne	ves P.E., City Engineer		400	<u> </u>
Approved SIGNATUR			(PRINT NAME 8	TITLE)	T	DATE	-
			1 '	, City Manager	-		
Approved			<u> </u>	, ora, manager	a nach Masagarana nach		
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urnish the r eayment the	naterials, exce erefor the price	pt as may otherwise s shown above. NO	deration to the change proposed and be noted above, and perform all s TE: If you, the contractor, do not beeding with the ordered work as	ervices necessary for the work ab t sign acceptance of this order,	ove specified, a	and will acco	ept as full I to the
	r Acceptance	by	(MARIE 188 2 1 2 7 2 2 2 2		1		
SIGNATUR	E	// //	(PRINT NAME &	TITLE)		DATE	
	///X	45/	JEFF HOE	BEL VP AREA MA	WAGEN	2/22	117

STATE OF CALIFORNIA. DEPARTMENT OF TRASPORTATION

CONTRACT CH	ANGE ORDER N	Date: 01/23/20	016					
To		Blairs Lane Bri	dge Replacement					
City Of Place	rville				•			
From				Prj # 40604				
UNICO Engin	eering, Inc., Carl Slo	oan, RE		Fed No.: BRLO 502	15 (009)			
CCO No				Contingency Balar	nce (Including this change)			
12								
CCO Amount \$36	5,900.00	Is this request in accordance Yes No with environmental documents?						
∑ Increase □	Decrease			with environment	ai documents?			
Original Contract Working Days:	Time Adjustment This Change:	Previously-Approved CCO Time Adjustments	_	ne Adjusted To Date g this change)	Total Number Of Unreconciled Deferred-Time CCO's (Including this change)			
<u>170</u>	<u>0</u> Day(s)	<u>21</u> Day(s)	<u>12%</u>		<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 facailities.

Extra Work Calculations:

Working Days:

No additional working days are granted.

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

CITY OF	PLACERVILL	.E				Sheet	1	(of	1
CONTR	RACT CHA	ANGE ORDER	?	Change Requested by:	\boxtimes	City			Contra	actor
CCO No. Suppl. No. Contract No. Project 11 0 40604 Blairs Lane Bridge Replacement						Federal Project Number: BRLO-5015(009)				
то: Мс	Guire & H	lester, Inc.								
specification	ons for this cont	ract. NOTE: This c	hange order must be approved	s or do the following described wo by the City Council: gate between additional work at contr		Yes 🔀	1	No		
account.)										
Estimated Cost: Decrease Increase Deferred By reason of this order the time of completion will be adjusted as follows: No additional working days granted										
Submitte		o time of completion			aayo	<u>g. a </u>				
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Approved			·							
SIGNATU	RE		(PRINT NAME 8	,	DA	DATE				
	. – –		Cleve Morris	s, City Manager						
SIGNATU		$A \leftarrow \bigcirc$	(PRINT NAME 8	L TITLE)		DA	TF			
OIOIVATO	Resident Engineer 12/21/16									
				nd agree, if this proposal is approv						
				services necessary for the work ab t sign acceptance of this order,						
requireme	nts of the spe	cification as to proc	eeding with the ordered work a	nd filing a written protest within	the tin	ne therein s	spec	cified		
	or Acceptance	by								
SIGNATU	RE		(PRINT NAME 8	k TITLE)		DA	TE.			



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:

argh

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

Project Title

M&H S# 069.

Blairs Lane Bridge Replacement

							Contract No.	40	604	M&H	Job#	39	26
Submitted To:			Carl Sloan	Location	Placerville, CA								
Address:					549 Main Street			1st	_ 2nd _	3rd	l (other _	_
					Placerville, CA 95667		Sub/Vender						
Attent	tion	:			Carl Sloan		Contact						
Phone:					916-218-8432		Telephone			Sub/Ven Subm'l#			
ACTION TAKEN			AKEI	١	M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approved					Subcontractor to Contractor								
AAN- Ap	prov	ed as	Noted		Contractor to Owner	12/20/16			X				
RR- Rev	ise &	Resu	bmit		Owner to Consultant								
R- Rejec	cted				Consultant to Owner								
AR- Ack	nowl	edge F	Receipt	t	Owner to Contractor								
RWR- R	eturn	W/o R	eview		Contractor to Subcontractor								
A A	AN	RR	R	AR	Specification No.		<u> </u>	Descrip	tion				
					Section 39-2.02		AC Pavin	g Quality	, Control	Plan			
	_	With			erial transmitted herein is in contions Except for	=	· · · · · · · · · · · · · · · · · · ·	an	rie l		cia		
Revie	w C	Comr	nent	s:				McGuir	e and He	ester			



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. 0
- - Luis Maca.
- Quality Assurance Technician II.
- John Scroggins. Quality Assurance Technician II.
- 0
- Brandon Snyder. Quality Assurance Technician III.
- Taylor Theis. 0
- 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

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule; Hamburg tests shall not be required.

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

City of Placerville – Blairs Lane Bridge Replacement Project Page 3 of 4 12/20/2016



(Tensile Strength Ration, %)

Smoothness Section 39-1.12B & D TBD Onsite

12-Ft

Profilograph not required.

(McGuire & Hester) Straight Edge

Paving Operations:

—Per approved submittal 59

- 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.
- 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. 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).

Rollers shall be minimum of those required in Geocon letter.

Driveways may be

built first at M&H

option.

- 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 Profiliograph required.

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.

City of Placerville – Blairs Lane Bridge Replacement Project Page 4 of 4 12/20/2016



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,

McGuiçe & Hester

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:

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

TITLE: Resident Engineer



GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



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."

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 211Abrasion 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
Construction Materials Testing:				
Soils		Х		
Concrete	X			
Asphalt		Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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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
TVOILE	☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 123 = SAMI LING MATERIALS ☐ CTM 201 = SAMPLE PREPARATION
03/17	 ☐ CTM 201 – SAWI EE TREFARATION ☐ CTM 202 – SIEVE ANALYSIS
03/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 ☑ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ☑ CTM -227 -CV
03/17	 ☐ CTM -206,207,208,211,
03/17	 ☑ CTM -234,235,371,384
	 \square CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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.

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
Construction Materials Testing:				
Soils	X			
Concrete	X			
Asphalt	Х			

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

TL -0115 (07/2012) 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. T 304 Uncompacted Void Content, Fine T 11 Materials Finer Than 75-um, Wash T 308 Binder Content, Ignition, Method A T 27 Sieve Analysis, Fine & Coarse Agg. R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 84 Bulk SpG (SSD) of Fine Aggr. T 324 Hamburg Wheel-Track Testing T248 Reducing Sample of Agg T 85 Bulk SpG (Oven Dry), Coarse Agg. T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. Jache 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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	 □ CTM 125 – SAMPLING MATERIALS
06/18	 □ CTM 201 – SAMPLE PREPARATION
06/18	 □ CTM 202 – SIEVE ANALYSIS
06/18	 CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	 CTM 217 – SAND EQUIVALENT
06/18	 CTM 226 – MOISTURE CONTENT
06/18	 CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
06/18	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	 ☑ CTM 366 – STABILOMETER
06/18	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	 CTM 382 – PERCENT ASPHALT
06/18	 ☐ CTM -227 -CV
06/18	 ☐ CTM -206,207,208,211,
06/18	 ☐ CTM -234,235,371,384
	 CTM xxx – XXXXXXXXXXXXXXXX
	 \bigcap CTM xxx – XXXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXXX
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	\Box CTM vvv \Box VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV

FERNANDO RIVERA

District 03 Materials Engineer

Jache Treat

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.

TL -0115 (07/2012) 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 Partilcle D4791 Flat and Elongated Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. 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

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Presents this CERTIFICATE OF PROFICIENCY to

JAMES BREWSTER

of

TEICHERT

who is qualified to perform the following tests:

Expiration Date

Test Method

02/16		X CTM 105 – CALCULATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16		CTM 125 – SAMPLING MATERIALS
		CTM 201 – SAMPLE PREPARATION
		☐ CTM 202 – SIEVE ANALYSIS
		CTM 205 – % CRUSHED PARTICLES
		CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
		CTM 217 – SAND EQUIVALENT
		CTM 226 – MOISTURE CONTENT
		☐ CTM -227 -CV
		CTM 229 – DURABILITY
		CTM 231 – RELATIVE COMPACTION (NUCLEAR)
		CTM 304 – HMA PREPERATION FOR TESTING
		CTM 308 – BULK S.G. OF HMA BRIQUETTES
		CTM 309 – RICE S.G. & DENSITY OF HMA
		CTM 366 – STABILOMETER
		CTM 370 – HMA MOISTURE (MICROWAVE)
		CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		CTM 379 – PERCENT ASPHALT (NUCLEAR)
		CTM 382 – PERCENT ASPHALT
		CTM -204,206
	•••••	CTM -204,200
	•••••	CTM -212,213,214,
		☐ CTM -212,213,214,
		CTM xxx – XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		CTM xxx - XXXXXXXXXXXXXXX
		$\Box \text{CTM xxx} - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
	•••••	$ \Box \text{CTM } xxx - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
		$ \Box \text{CTM } xxx - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
		CTM xxx - XXXXXXXXXXXXXXX

KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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.

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

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- 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:

	Level 1	Level 2	Level 3	Level 4
Construction Materials Testing:				
Soils	Х	Х		
Asphalt	Х	Х		
Concrete	Х	Х		
Highway Materials	Х	Х		

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. **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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 ☐ CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
05/17	 □ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ☐ CTM -204,206,207,208,211,
03/17	 ☑ CTM -214,234,235,371,384
05/17	 ☑ CTM -301 R-VALUE
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXX
	 \Box CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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.

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 211Abrasion 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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 ☑ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 □ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 ☑ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ☐ CTM -371- MOISTURE SENSITIVITY
03/17	 ☐ CTM -206,207,208,211,
03/17	 ◯ CTM -234,235,204,214,384
05/17	 CTM xxx – XXXXXXXXXXXXXXX
	\square CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache 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.

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 211Abrasion 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

TL -0115 (07/2012) 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 304 Uncompacted Void Content, Fine T 27 Sieve Analysis, Fine & Coarse Agg. T 308 Binder Content, Ignition, Method A R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 324 Hamburg Wheel-Track Testing T 84 Bulk SpG (SSD) of Fine Aggr. T 85 Bulk SpG (Oven Dry), Coarse Agg. T248 Reducing Sample of Agg T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent D7741 Apparent Viscosity T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage 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
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17		□ CTM 125 – SAMPLING MATERIALS
04/17		☑ CTM 201 – SAMPLE PREPARATION
04/17		☑ CTM 202 – SIEVE ANALYSIS
04/17		☑ CTM 205 – % CRUSHED PARTICLES
05/17		□ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
04/17		☑ CTM 217 – SAND EQUIVALENT
04/17		☑ CTM 226 – MOISTURE CONTENT
04/17		☑ CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17		□ CTM 304 – HMA PREPERATION FOR TESTING
04/17		☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17		☑ CTM 366 – STABILOMETER
04/17		☑ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17		CTM 382 – PERCENT ASPHALT
04/17		☐ CTM -227 -CV
04/17		☑ CTM -371-RESISTANCE TO MOISTURE
04/17		☑ CTM -206,207,208,211
04/17		☑ CTM -234,235
05/17		☑ CTM -204,214,301,384
		☐ CTM xxx – XXXXXXXXXXXXXXXX
	•••••	CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXX
		\square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jache Tret

Jackie Treat

Certified Independent Assurance (IA) #107

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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.

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☑ CTM 125 – SAMPLING MATERIALS
04/17	 □ CTM 201 – SAMPLE PREPARATION
04/17	 ☑ CTM 202 – SIEVE ANALYSIS
04/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	 ☑ CTM 217 – SAND EQUIVALENT
04/17	 ☑ CTM 226 – MOISTURE CONTENT
04/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 □ CTM 366 – STABILOMETER
04/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ☐ CTM -227 -CV
04/17	 ☐ CTM -206,207,211,212,214
04/17	 ☐ CTM -384-
	 CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	\square CTM vvv $_$ XXXXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Jacke 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.

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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	X CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☐ CTM 125 – SAMPLING MATERIALS
04/17	 ☐ CTM 201 – SAMPLE PREPARATION
04/17	 ☐ CTM 202 – SIEVE ANALYSIS
04/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	 ☐ CTM 217 – SAND EQUIVALENT
04/17	 ☐ CTM 226 – MOISTURE CONTENT
04/17	 ☐ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 ☐ CTM 366 – STABILOMETER
04/17	 ☐ CTM 370 – HMA MOISTURE (MICROWAVE)
	 CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ◯ CTM -227 -CV
04/17	 ◯ CTM -206, 207,211,234,235,
04/17	 ◯ CTM -371,384
05/17	 ☐ CTM 204,214
	 CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
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GIRMAY BEYENE

District 03 Materials Engineer

Vadue Treat

Jackie Treat Certifi

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.

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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

TL -0115 (07/2012) 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-um, Wash T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	X CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ◯ CTM -204,206,207,208,211,
03/17	 ◯ CTM -214,234,235,371,384
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXX
	 \square CTM xxx – XXXXXXXXXXXXXXXX

GIRMAY BEYENE

District 03 Materials Engineer

Vadue 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.

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

Last revised	
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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

TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. Sadue 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

		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17		CTM 125 – SAMPLING MATERIALS
05/17		CTM 201 – SAMPLE PREPARATION
05/17		CTM 202 – SIEVE ANALYSIS
05/17		CTM 205 – % CRUSHED PARTICLES
		☐ CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17		☐ CTM 217 – SAND EQUIVALENT
05/17		☐ CTM 226 – MOISTURE CONTENT
05/17		□ CTM -227 -CV
05/17		☐ CTM 229 – DURABILITY
00.17		CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17		☐ CTM 304 – HMA PREPERATION FOR TESTING
05/17		☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17		CTM 366 – STABILOMETER
		CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/15	•••••	=
05/17		CTM 382 – PERCENT ASPHALT
		☐ CTM -204,206
		☐ CTM -207,211
		☐ CTM -212,213,214,
		☐ CTM -234,235,371
		☐ CTM xxx – XXXXXXXXXXXXXXX
		☐ CTM xxx – XXXXXXXXXXXXXXX
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		\bigcap CTM xxx – XXXXXXXXXXXXXXXX

KEVIN ESPINOZA

District 03 Materials Engineer

Jache 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		Expiratio	n date:	3/20/2	017	
		Inspected by:		Jackie Treat		
		IA No.:	-	#107		
		Phone:		530-741	L-4131	
		File: Mat	erials Cate			
aharatan.	Toichart Incorporated Parking Laboratory ID#22					
aboratory: ddress:	Teichert Incorporated-Perkins Laboratory-ID#32 8609 Jackson Road, Building #101					
ity:	Sacramento	State:	CA	Zip:	95826	
ab QC Mgr.:	Trenton Crouse	e-mail:		@teichert.c		
elephone:	(916) 386-6974	Fax #.:	(916) 38		<u>OIII</u>	
ACPHOLIC:	(510) 500 6577	. αλ π	(310) 30	JU U-JJ		
A certified Indepe	endent Assurance (IA) visited this laboratory on	_ 3/1	6/2016			
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e National Highway	System was checked for qualification.					
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IA Inspector

Jache Treat

CALTRANS QUALIFIED LABORATORY INSPECTION REPORT

Laboratory: Teichert Incorporated-Perkins Laboratory-ID#32 Address: 8609 Jackson Road, Building #101 City: Sacramento Lab QC Mgr.: Trenton Crouse Telephone: (916) 386-6974 A certified Independent Assurance (IA) visited this laboratory on Only the equipment to be used on Caltrans construction projects and/or local co the National Highway System was checked for qualification. At the time of Caltrans Qualification, this laboratory had all necessary equip indicated below. Testing personnel shall be Caltrans Qualified and possess a curr of Profiency Form TL-0111 prior to performing any sampling or testing. AASHTO R18,R30,R35, R47, R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30 T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791 X A written in-house Safety Program X Verification that the laboratory participates in Caltrans X Laboratory Procedures Manual X Laboratory Quality Control Manual	Inspected IA No.: Phone: File: Mat	d by: erials Cate	Jackie Tr #107 530-741 gory 500	
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Laboratory Quality Control Mandai				
X Proper Test equipment				
X Copies of current applicable test procedures				
X Calibration and service documentation				
X Calibration stickers affixed to test equipment (dated w	hin the 12 r	nonths)		
X Personnel certification/qualification/training documen	ation			
X Nuclear gauge license				
	2011			

IA Inspector

Jache Treat

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50 Years

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

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, T90, 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.



Blairs Lane Bridge Replacement



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

Project Title

D. J 144 - J. T			Contract No.	40	604	M&H	Job#	39	26
Submitted To:	Carl Sloan		Location			lacerv	ille, CA	١	
Address:	549 Main Street				_ 2nd	3rc	l c	other _	_
	Placerville, CA 95667	Sub/Vender			Tei	ichert l	Materia	ıls	
Attention:	Carl Sloan	Contact				Don E	Bates		
Phone:	916-218-8432		Telephone 916-82		25-5070		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			Х				
RR- Revise & Resubmit	Owner to Consultant	12/00/10							
R- Rejected	Consultant to Owner								
AR- Acknowledge Receipt	Owner to Contractor								
RWR- Return W/o Review	Contractor to Subcontractor								
A AAN RR R A				Descript	tion				
70 170 170 170 170	Caltrans Section 39	1/2	2" 64-10 Hot Mix A			erm M	1 Addi	tive	



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 Kowik /nx

Mike Kocunik Quality Assurance Supervisor

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

3/2/2016

Type:

1/2" Max. Med. Type A w/15% RAP

Plant:

Perkins GenCor

,, ...

w/ 0.3% Evotherm M1 Warm Mix

Agg Source:S.M.A.R.A. # 91-34-0037

-0037 Performed by:

Mike Kocunik

Asphalt: PG64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	18	41	11	15	
50.0mm	100	100	100	100	100	100	100	
37.5mm	100	100	100	100	100	100	100	
25.0mm	100	100	100	100	100	100	100	
19.0mm	100	100	100	100	100	100	100	
12.5mm	90 - 100	96	71	100	100	100	100	
9.5mm	78 - 90	84	19	78	100	100	99	
4.75mm	53- 67	60	3	3	90	100	74	
2.36mm	35 - 45	40		1	55	88	52	
1.18mm		28			35	72	40	
600µm	16 - 24	20			25	46	31	
300µm		14			21	17	22	
150µm	-	9			15	4	15	
75µm	3.5 - 7.5	5.5			9.5	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 M³	C.T.M.308-A	2.441	N/A
RICE UNIT WEIGHT Kg M3	C.T.M. 309	2.543	N/A
STABILOMETER VALUE	C.T.M.366	38	37 min
Dust Proportion	LP-4	1.2	0.6 - 1.2
VMA	LP-2	14.2	14.0 min
VFA	LP-3	73	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371		N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall be	4.8% by dry weight

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

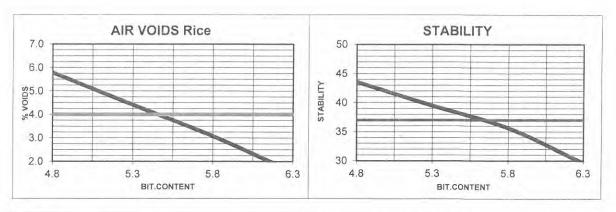
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Rev	s. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity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

STABILOMETER (C.T.M. 366)

			INDILO	MILLEL	(6.1.17. 300)			
	SPECIMEN	Α	В	С	D		Optimu	m
	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
1	500					1 2 2 2 2 3		
	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	44	39	36	30	38	37	38

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

			IDO DE L		1011 0.1.111.00	. ,		
	SPECIMEN	Α	В	С	D	(2 Optimu	m
	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 wit	h 4 or mo	re % Void	S		3	5.5	OBC*
3	MEETING MIN. STAB.		(ENTE	ER UP TO	TWO)		4.8	5.3
2	NONFLUSHING SPECIF	MENS	(ENTER	R UP TO	THREE)	4.8	5.3	5.8
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIM	MUM BITUMEN CONTENT	=	5.5					
RECOM	IMENDED RANGE=	5.2		5.5				



Section 1. Identification

GHS product identifier

: EVOTHERM® M1

Climnical 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 29406-3615

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

(F) (E)

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 None known result in classification

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

CAS number
-

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 furnes 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. Clear shoes thoroughly before reuse.

Section 4. First-aid measures

latgestion

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 not 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 light 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 imitation.

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 1 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)



5

Section 5. Fire-fighting measures

Lytinguishing metily

Suitable extinouishing

Unclear exting a some agent smile for the surrounding are.

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. The 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

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 sale

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 prothing and protective equipment before entering eating areas. See also Sention 5 for additional information on hygiene measures.

Conditions for sale storant, including any moonipatibilities

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.

procedures

Recommended monitoring: 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

Eve 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 googles. 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 manufactures 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

<u>Appearance</u>

Physical state : Liquid.

Colour : Amber, [Dark] Odour : Amine-like. Not available.

Odour threshold Ha

: 10 to 12 [Conc. (% w/w): 15%]

Melting point : <25°C (<77°F)

: >200°C (>392°F) Boiling point

: Closed cup: >204.4°C (>399.9°F) [Pensky-Martens] Flash point

Evaporation rate : Not available. : Not applicable. Flaminability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

: <1.0 x 10 1 mmHg @25 °C Vapour pressure

: Not available. Vapour density : 0.97 [Water = 1] Relative density

Partially soluble in the following materials: cold water and hot water. Solubility Easily dispersible in the following materials: cold water and hot water. Dispersibility properties

Partition coefficient: n-

octanol/water

: Not available.

: Not available. Auto-ignition temperature : Not available. Decomposition temperature : Not available. SADT : Not available. Viscosity : Not available. Other

Section 10. Stability and reactivity

RODESIVIEW

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 a Causes serious eye damage.

system. Exposure to decomposition products may cause a realin trazard. Sendo.

effects may be delayed following exposure.

Skin contact : Causes skin irritation

ingestion May cause burns to mouth, invost and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eve 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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

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.

Fortility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Loxicity

ProducVingredient mame	Result	Species	Exposure
Fritty amine derivatives	LC50 0.43 mg/l NOEC 0.32 mg/l	Fish Fish	96 hours

Persistence/degradability

riot available.

The state of the s		Result		Dose		Inoculum	
atty amine derivatives	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	dy ability -				Activated slugge	
Product/ingredient name	Aquatic half-life		Photolysis		Biode	degradability	
atty amine derivatives	-		and the second s		Not readily		

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not ca 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 spilt 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, nos. (Fatty amine derivatives)	Environmentally hazardous substance, liquid no so (Fatty amine denvatives). Marine pollutant (Fatty amine denvatives)
14.3 Transport hazard class(es)	9	9		s all the tra
14.4 Packing group	H	111	III	111
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. Special provisions 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg Emergency. schedules (EmS) F-A, S-F Special provisions 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only 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. Limited quantity Yes.

	Limited Quantities - Passenger Airstaft Quantity limitation: 30 kg Packaging instructions: Y954 Special provisions A97-A158	Special provisions 8, 146, 173 335 183, 74, 1P1 1P29
--	---	--

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 : Not applicable.

Law

Fire Service Law

: Class 4: Type 4 petroleum

Designated quantity

Designated quantity

Designated quantity

: Not available.

: Not available

: Not available.

Fire Service Law

: Not available.

Substance to report

: Not applicable.

Fire Service Law -Obstructive materials : Not listed

Characteristics Danger class

: Not available.

: Not available.

Poisonous and Deleterious Substances

Use of specified chemical

: Not available.

substances

ISHL

: Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation

: Not applicable.

Version:

Validated on 10/18/2013.

Section 15. Regulatory information

Occupational diseases

: Not available.

Law Concerning

- Marine pollutant: P

Prevention of Pollution of the Ocean and Maritime

Disaster

Notification Regulating

: Not available.

Transportation of

Dangerous Materials by

Sea

Givil Aeronautics Law

: Not available.

Pollutant Release and

: Not listed

Transfer Registers (PRTR)

Road law

: Not applicable.

JSOH Carcinogen ISHL Prevention of : Not listed

Tetraalkyl Lead Poisoning

: Not listed

ISHL Harmful Substances

: Not listed

Subject to Obtaining Permission for Manufacturing

ISHL Harmful Substances,

: Not listed

Prohibited for Manufacturing

ISHL Chemicals requiring

: Not listed

notification

ISHL Dangerous

: Not listed

Substances

List of Specially

. Not listed

Controlled Industrial Waste

Chemical Substances Control Law (CSCL)

Not available.

Biodegradability

: Not available.

Concentration of

· Not available.

chemicals accumulated in

fish

Japan inventory

: This material is listed or exempted.

Other regulations

: Not available.

Safety, health and unvironmental 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

: This material is not listed.

chemicals

Section 15, Regulatory information

TCCA Article 32

(Banned)

This material is not listed

TCCA Article 32

(Restricted)

This material is not listed.

TGCA 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 Cantage of Dangerous Goods
by Rall
UN = United Mations

Turerances

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 abovenamed 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.





Blairs Lane Bridge Replacement



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

Project Title

								Contract No.	40	604	М&Н	Job#	39	26
Sub	mitte	d To	:		Carl Sloan			Location		Р	lacerv	lle, CA	ı	
Add	ress:				549 Main Street				1st	_ 2nd	_ 3rd	c	other _	
					Placerville, CA 95667			Sub/Vender		Tei	chert I	Materia	ls	
Atte	ntion	:			Carl Sloan			Contact			Don E	Bates		
Pho	ne:				916-218-8432			Telephone	916-82	25-5070		Sub/Ven	Subm'l#	3
	ACTIO	ON T	AKEN	١	M&H SUBMITTAL	Date S	Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
4- Ар	proved				Subcontractor to Contractor									
۹AN-	Approv	ed as	Noted		Contractor to Owner	07/27	7/16			Х				
RR- R	evise 8	k Resu	bmit		Owner to Consultant									
R- Re	jected				Consultant to Owner									
		ledge F	Receipt		Owner to Contractor									
	Return	•			Contractor to Subcontractor									
	AAN		R	AR	Specification No.	1		l.	Descript	ion				
					Caltrans Section 39			1/2" 64	-10 Hot N		alt			
		With			erial transmitted herein is in c ptions Except for				cations:					
COI	IIIICI	ilo.												
									an	rie G	fare	ria		
										e and He				
Rev	iew (Comr	nent	s:										
	С	ity o	of Ci	trus	Heights Submittal N	lo. <u>59</u>								
		Re	ceive	d and	l Filed									

City of Citrus Heights

Submittal No. 59

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

Signature:
Date: 8-3-16

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

Cell: (916) 826-3243 Fax: (916) 685-8701 jdougherty@ppcla.com

TEICHERT QUALITY ASSURANCE **HVEEM MIX DESIGN**

Date:

1/6/2016

Type: 1/2" Maximum Medium "A"

Plant: Perkins Batch Plant

w/15% RAP

Agg Source:S.M.A.R.A. # 91-34-0045 Asphalt: PG 64-10

Performed by:

Mike Kocunik

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin	3	2	1	BHD	RAP	
	Operating	Size		-	-	DITID	1011	
% Used	Range	100	11	26.5	47	0.5	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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	1 1	0.6 - 1.3
VMA	LP-2	14.1		14.0 min
VFA	LP-3	72	1 1	65 - 75
FAA	AASHTO T304	46		45 min
TSR	C.T.M. 371	-	1 1	N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall	be 4.8% t	ov dry weight

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

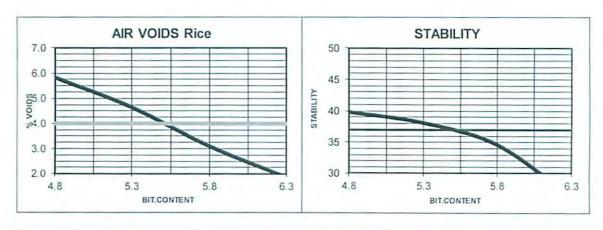
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	. CTM 211	4	N/A	12%
500 Rev	vs. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
Flat & Elongated (3:1)	ASTM D 4791	5.7		
(5:1)		3.2		
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	А	В	С	D	0	Optimur	n
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.		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			
TURNS 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)

		AIR VU	DO DE II	-KIVIIIVA I	ION C.I.	IVI. 307			
	SPECIMEN	Α	В	C	D		0	Optimu	m
	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	Max Asphalt Content with 4 or more % Voids							OBC*
3	MEETING MIN. STAB.		(ENTER UP TO TWO)				4.8	5.3
2	NONFLUSHING SPECI	JSHING SPECIMENS (ENTER			THREE)	4.8	5.3	5.8
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIM	MUM BITUMEN CONTENT	Γ=	5.5					
RECOM	MMENDED RANGE=	5.2		5.5				

TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

1/6/2016

Type:

1/2" Maximum Medium Type "A"

Plant: Perkins (Drum) Agg Source:S.M.A.R.A. #

91-34-0045

Performed by:

w/15% RAP

Mike Kocunik

Asphalt: PG 64-10

Reviewed by:

Eric Gifford

AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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 b	e added to the aggred	ate chall	ho 1 8%	ov dry weight

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 Rev	s. CTM 211	4	N/A	12%
500 Re	evs. 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	1	
Specific Gravity	CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0			6.00

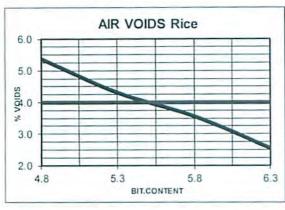
1/2" Max. Medium Type "A", Perkins Drum Plant

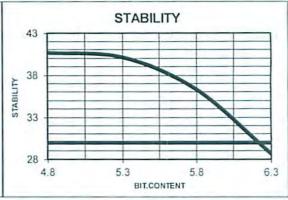
STABIL	OMETER	(C.T.M.	366
JIADIL	CIVILILI	1 0. 1 . 111.	000

		TT LE IL C.	-	-		@ Ontingu	~~
SPECIMEN	A	В	C	D	-	@ Optimur	
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			
TURNS 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)

		All VO	IDO DE I	TI CIAMILAN	11014 (0.1.141. 00)	1		
	SPECIMEN	A	В	С	D	(Optimu	m
	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	Max Asphalt Content with 4 or more % Voids							OBC*
3	MEETING MIN. STAB.		(ENTE	R 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	
* OPTIM	NUM BITUMEN CONTEN	T=	5.5					
RECOM	MENDED RANGE=	5.2		5.5				

CITY OF I	PLACERVILL	.E						Sheet	1	of 1
CONTR	ACT CH	ANGE ORDER	-		Change Requested by:		\boxtimes	City		Contractor
CCO No.	Suppl. No.	Contract No.	Project					eral Projec	t Num	her:
15	1 0 0 0 1 1 1 0 1 0 1 0 1									
то: Мс	To: McGuire & Hester, Inc.									
-			from the plans and spe	ecifications	s or do the following described	work n	ot inc	luded in the	plans	and
s pe cificatio	specifications for this contract. NOTE: This change order must be approved by the City Council:									
Description	of work to be	done, estimate of quant	ities and prices to be paid	id. (Segreg	ate between additional work at o	contract	price	, agreed price	e and fo	orce
account.)										
			es and Extra Work," Caltrans, Valero an		pecial Provisions, install ad on driveways.	ldition	al Dr	rainage Inle	ets per	FCD 18,
Extra Wor	k at Force A	Account:								
DEWR 28-1	32.0								135.30	5
Total CCO	Total CCO #15 Amount:									
			Estimat	ted Cost:	omplete compensation for the desired properties of the desired propert	crease		order. \$9,52	20.38	
		he time of completion	will be adjusted as follo	ows:	No additional work	ing da	ays			
Submitte SIGNATU			(PRIN	IT NAME 8	TITLE)			DAT	E	
			,		ves P.E., City Engineer					
Approved			T					1		
SIGNATUI	RE			IT NAME 8				DAT	Ε	
Approved	1		Cieve	e Morris	, City Manager					
SIGNATU			(PRIN	IT NAME &	TITLE)			DATI	E	
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										
SIGNATUI		υу	(PRIN	IT NAME 8	TITLE)			DAT	E	
			(*	•	,					



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

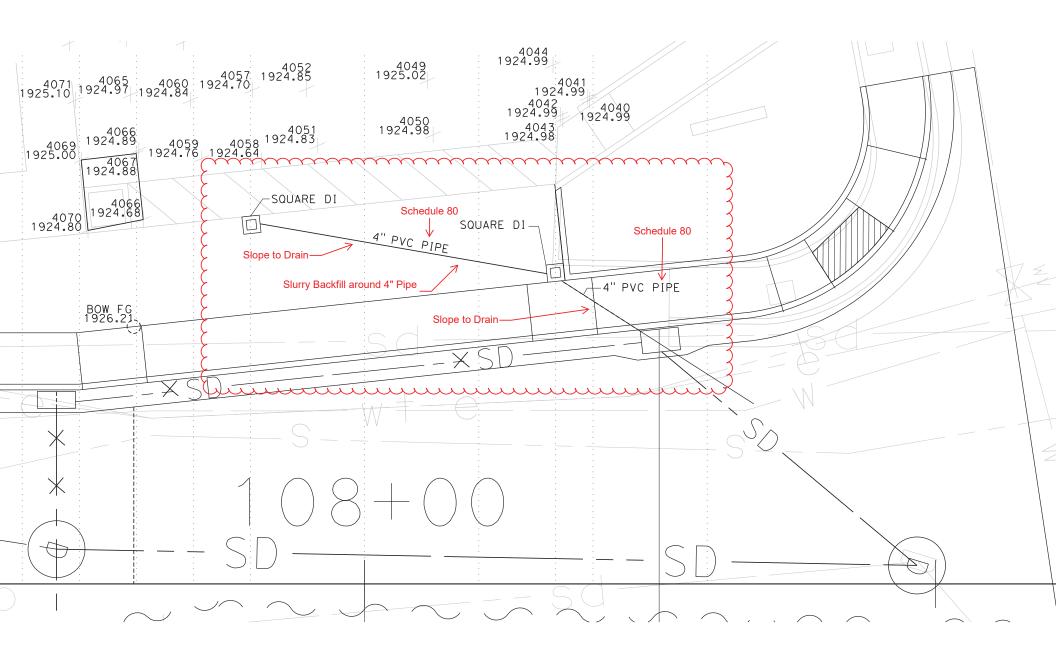
involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed

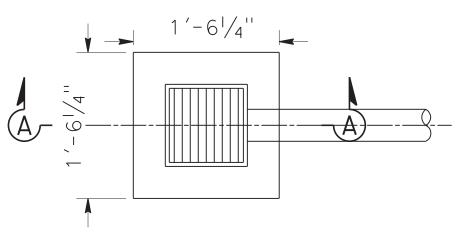
by the City and the Contractor. CITY REPRESENTATIVE:

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

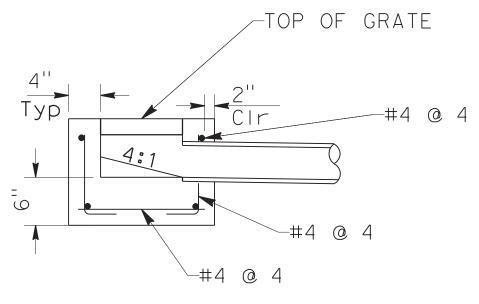
Sh

TITLE: Resident Engineer





SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE



McGuire and Hester

1016 N. Market Blvd Sacramento, CA 95834

Phone: 916-372-8910

Fax: 916-372-8913

REQUEST FOR INFORMATION

Request No.: 033

Title: Caltrans Driveway Requested By: Arnie Garcia

Date: 12/07/2016

City of Placerville To: 3101 Center Street

Placerville, CA 95667

Project No.: M&H #3926

Placerville #40604

Project: Blairs Lane Bridge Replacement

Attn: Carl Sloan (UNICO Engineering)

916-218-8432 Carl@unicoengineering.com

Spec. Section: Page No.:

Drawing No.: Sheet 6

Detail No.:

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.

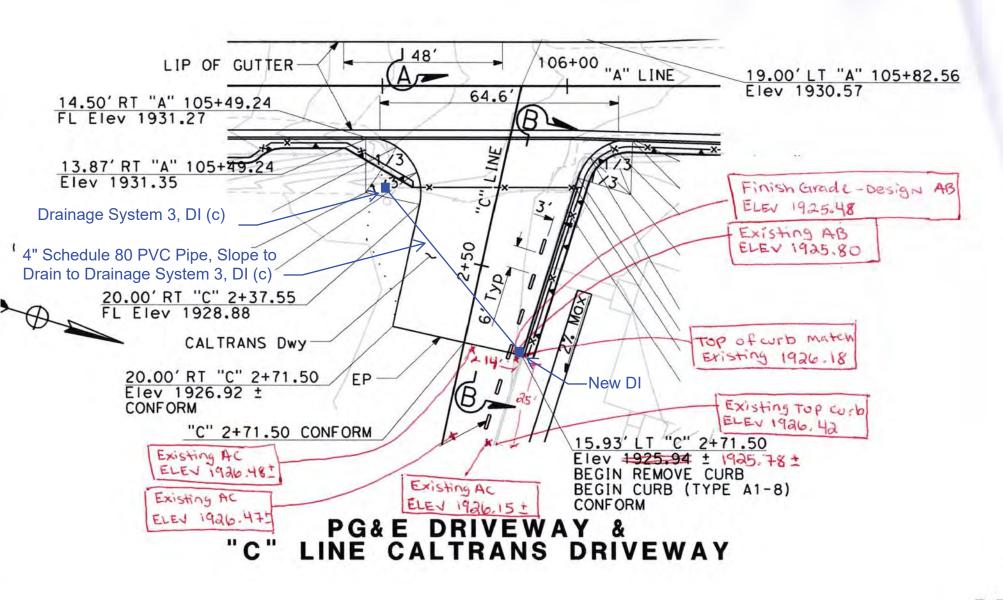
Reply Required by: 12/8/2016	By: Arnie Garcia
	Title: Project Engineer

Response:

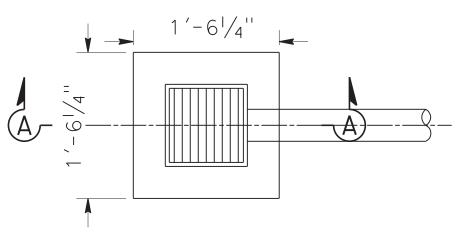
Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

See attached detail for the DI.

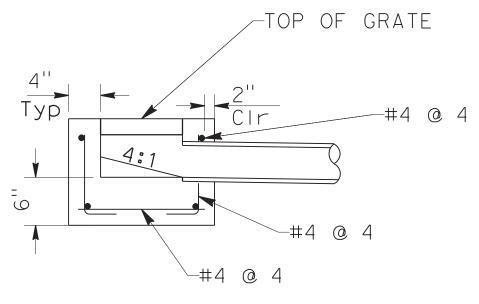
Date:	By:
cc:	Title:



DETA NO SC



SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE

City Of Placervil	le							Change Ord		028
	926 - Placerville - Blairs Lane Bridge							Billing Numb		132.0
	cGuire and Hester							Report Date		12/06/2016
Description of Work: Va	alero Driveway Mod.							Perform Date	te	12/06/2016
Labor Charges								L	abor Cha	
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	-		0.00
Equipment Char	ges							1		
Equipment ID	Description	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subtotal Lal	bor	90.57
E01 02292	Ford F-250 Utility Pickup	0.50		22.760			11.38	Subsistence	e	0.00
								Other Exper		0.00
									35.00%	
										31.70
								Labor Total		122.27
								Equ	uipment (Charges
								Subtotal		11.38
								MU	15.00%	<u>1.71</u>
								Equipment 7	Total	13.09
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									contract	
								Sub	contract	Charges
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Machine 1	McGuire and Hester		Accepted:					Sub Activity Tota	al	Charges
MCUIRE	McGuire and Hester		Accepted: Customer:			Date:		Sub Activity Tota	al	135.36

B-13a



McGuire & Hester Representative

EXTRA WORK REPORT CONSTRUCTION COMPANY

	M&H JOB NO: 3926					
	EXTRA WORK ORDER NO: 9830028					
TO: CITY OF PLACEUTUR	DATE OF REPORT: 12-6-16					
PROJECT: BLATES LANG BR	DATE PERFORMED: 12-6-16					
	JUSTALL 4" DUCTELLE AND					
	on FUTURE TEENCH DRIAN)					
SUMMARY OF LABOR AND EQUIPMENT						
EMPL # EMPLOYEE NAME EQ # EQ DES	CRIPTION TRADE HOURS					
4273 ROGER KENC CHAR F-25	OPU LABOR FOREMAN . 5					
4948 HUMBRETO MEZA	LABOR					
SUMMARY OF MATERIAL & SPECIALTY FORCE	5					
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Machine County	Labor Charges											
Companies Comp		Employee	Name	RT Hrs	OT Hrs	Subs Units		OT Rate	Subs Rate		RT Labor	
Martial Special Section 1472271 14722716 14722		R Krug		6.00			61.210			367.26	SC 12.00%	206.71
1.00 4948	^{L02} 7359			6.00			75.100			450.60	OT Labor	0.00
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Column Control Column	L04 6728	E Ramire	Z	6.00			50.260			301.56	Subtotal Labor	1,929.25
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Columb Ford F-250 Utility Pickup 6.00 22.760 136.56 Labor Total 2,004.48 Labor T		_	1	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended		
Material/Specialist Work/Lump Sum or Unit Price Payment Number Date Vendor Name and Description Unit 1900 397.15000 397.15 567.28 355.09 397.25 567.28 355.09 397.25 397.25	E01 02292	Ford F-2	250 Utility Pickup	6.00			22.760			136.56		
Number Date Vendor Name and Description Units Unit Price Extended Surface Surfac	E02 07049	Cat 420I	E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72	Labor Total	2,004.40
Mulbrof Date Modor Name and Description Dults Unit Price Extended Section Secti	Material/Specia			nt							Equipment	Charges
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MOZ 5122837 12/12/2016 Ferguson Enterprises / Material Buy - Frittings 1.000 LS 23.12000 23.120			•								<i>м</i> υ 15.00%	<u>85.09</u>
Mod Source 12/12/2016 Syar Concrete LLC / Slurry Buy 1.000 LS 434.17000 434.17 1.000 LS 29.81000 29.81 1.000 LS 10.12000 10.12 10.12000 10.12 1.000 LS 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12 10.12000 10.12000 10.12 10.12000		12/12/2016	Ferguson Enterprises / Material Buy - F	ittings					23.12000	23.12	Equipment Total	652.37
Mod 0000265561 12/12/2016 Home Depot / Material Buy - Concrete Mix 1.000 LS 29.81000 29.81 5.0000198329 12/12/2016 Home Depot / Material Buy - Drain Box 1.000 LS 10.1200 10.12	M03 90085								434.17000	434.17	Material C	harane
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Mo6 17613035112 12/12/2016 Corix Water Products / Material Buy - Drain Box 1.000 LS 745.21000 745.21 Material Total 1,874.02			<u> </u>							10.12		
Material Total 1,8/4.02 Subcontract Charges				Orain Box							<i>MU</i> 15.00%	
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Bill Subtotal 5,130.87 McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87											Activity Total	5,130.87
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
McGuire and Hester Accepted: Customer: Date: Bill Total + 5,130.87												
MCGuire and rester Customer: Date:											Bill Subtotal	5,130.87
MCGUIRE HESTER Customer: Date:												
MCGuire and Rester Customer: Date:												
MCUIRE Date:		McGuire	and Hester		/	Accepted:					Bill Total 👃	5,130.87
		`				Customer:			Date:			,
	HESTER	Joh Contac	et: Hugo Gutierrez (916) 873-2690			Contractor:			Date:		Page 1	



EXTRA WORK REPORT CONSTRUCTION COMPANY

				M&H JOB NO). ZG2/		7
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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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name	Invoid Date		Batch	
610	610	CA09PL	3	926	679	BLAIRS LN		12/13/20	016	151996
Ordered	Shipped	Item	Number		Descrip	tion	Unit Price	e UM	Ar	nount
160	160	P40BEPP	20	4X20 FT PVC	S40 BE PIPE		224.0	045 C		358.47

 Invoice Sub-Total
 358.47

 Tax
 28.68

 Total Amt
 387.15

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

FERGUSON ENTERPRISES, INC. a WOLSELEY company

FEI PLACERVILLE #610 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003 B-133

IACCEPT BZO = Y SOURCE = SOE IB FRT = N 0.0 OB SHP = M0.1 10 NEC 2016 11-26-7 WRITER

DRDER NO.	530-522-3281 REQUIRED DATE	FAX: 530 SHIP WHS.	-622-249] SELL WHS.	

STOCK SALES ORDER

SALESMAN

TAG P.O. NO. 5119203 10710716 CUSTOMER NO. CUSTOMER ALPHA | CONTRACT NO. BID NO. ORDER DATE ORDERED BY INSTRUCTIONS OML CONTACT \$11331 MOGHTREAM RRRRRRR 10700718 OPHITE Sarana Moods S MCGUIRE AND HESTER COUNTER PICK UP VENDOR P.O. NO. 9009 RAILROAD AVENUE 2850 COLD SPRINGS RD 6 OAKLAND, CA 94603 FLACERVILLE, CA 95667-4003 SHIP VIA ROUTE NO. RUN NO. DEPART LITTI I PCS BAGS BOXES CRATES LENGTHS BUNDLES ROUTE DESC. CHST PH: 510-639-7676 CUSTOMER P.O. NO. JOB NAME ATTN: PACKED BY SHIP WT. SHIP DATE **DELIVERED BY** CHECKED BY RECTES IN LINE ORDER OTY. SHIP QTY. RO OTY ITEM CODE DESCRIPTION U/M **UNIT PRICE** TOTAL P.O. NO. **AISLE LOC** 1.60 160 n leangappon AYON ET DVC GAN RE DTDU 224 MAR YHZG: 210 B Th is illegal to install broducts that are not "lead free" in accordance with HS Federal a in physician dater sustems anticipated for human consumption. Products with *NP in dniu be installed in non-potable applications. Ruver is solely responsible for producgelection vatory Faucets with flow rates over fl.5 GPM are NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION, RETURNED MATERIALS INBOUND OUTBOUND LESS SUBTOTAL TAX TOTAL DUE SUBJECT TO HANDLING CHARGES. SHIPPING DEPOSIT SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS

CUSTOMER'S SIGNATURE:

Courts Smith

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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name		Invoice Date			Batch
610	610	CA09PL	3	3926	679	3926		12	2/13/20	016	151996
Ordered	Shipped	Item	Number		Descrip	tion	Unit Pric	e l	υм	An	nount
1	1	P40S4P		4 PVC S40 SX	4 PVC S40 SXS 45 ELL			755	EΑ		15.76
1	1	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	ELL	5.	650	EΑ		5.65

 Invoice Sub-Total
 21.41

 Tax
 1.71

 Total Amt
 23.12

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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 PLA 2850 CC PLACERY	ACERVI DLD SF	LLE RIN CA	#610 GS RD 95657	ERPRISES, III -4003 (*: 530-622-2491	VC. a WOLSEL	EY company	B-133	KSAI	ES (O R D	E R		ACCEPT SHOWROO SOURCE IB FRT OB SHP 13 DFC WRITER)M = S0 = N = N	= N E 0. 0.
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SYAR CONCRETE LLC RECEIVED PO BOX 2700

NAPA, CA 94558 (877) 792-7649

DEC 15 2016

INVOICE 90085

DATE

MCGUIRE AND HESTER

12/12/2016

Sold To:

MC GUIRE & HESTER 9009 RAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE

CA

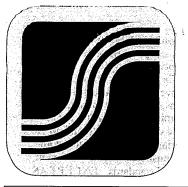
Page 1

							20222224
	omer Code UIREHES		ject Code	Purchase Order P3926-08	Job Number 3926	:	Order 50
====							
			Product		Unit of	Unit	Extended
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	су	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	TOTAL DUE
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AMOUNT	DISCOUNT	IF PAID 1	BY YOU MAY DEDUCT	
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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!



SYAR CONCRETE LLC

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE TICKET #
12/12/2016 41024305
PO. # JOB #
P3926-08 3926

SYAR ORDER #
50 DIR#:

SOLD TO			DELIVER TO)				PLANT COD	F
MCGUIRE MC GUIRE			BLAI BLAI			RIDGE REPLAC WAY PLACERY	ILLE	41 PLANT LOCA	Cameron Pa
START BATCH/MIX CYCLE	LEAVE PLANT	ARRIVE JO	В	S	START POUR	FINISH POUR	WAS	HOUT	LEAVE JOB
44.75	11:55	17.2	2	/	12:21	12.25			
SCHEDUĽEĎ ĎEĽÍVÉRY TIME	CU. YDS. ORDERED CU	. YDS. ĎEĽÍVERĚĎ	LOAD #	#	MIX D	ESIGN #	SLUMP		USAGE
12:10	2	2	1		SSØ	6@NR9	3.00	ir	
QUANTITY F	PRODUCT CODE		CT DESCRI	PTIO	N-SEE BATCH DA	TA	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
	3060NR9 37015	6 Sack ENVIRON					11/11/20	y d e a	
	, -								

MINIMUM LOAD CHARGE

HWY 50 BROADWAY @ BLAIRS LANE

TRUCK#	DRIVER		-a 1		e Lastine - 1	PREVIOUS TRUC
8075	JEFF WINGE	WASHOUT USED	YES 🗀	№ □	DRUM COUNTER	All the state of t
of this truck could desire. Your signar form damage that triveways, undergelp the driver reradditionally, the upplier and its af laimed by anyone to the coupling of the coupl	ONSIBLE FOR PROVIDING SAFE ACCESS OFF PAVEMENT. The size and weight cause damage to the premises and/or adjacent property if load is placed where you ture below is a RELEASE relieving this supplier and its affiliates from any responsibility t may occur on this premises and/or adjacent property such as curbs, sidewalks, pround improvements, buildings, etc. due to delivery of this material. You also agree to nove mud from the wheels of his/her vehicle so that is will not litter the public street(s). undersigned agrees to indemnify and hold harmless the driver of this truck and this filiates for any and all damage to the premises and/or adjacent property which may be a to have arisen out of delivery of this order.	EXCESSIVE WATE TO CONCRETE X REQUES FULL LOAD 3/4 LOAD (GALLONS) (GALLONS)	ER IS DETRIM: PERFORMAN OR'S NAME 1/2 LOAD (GALLONS)	ENTAL NCE 1/4 LOAD (GALLONS)	SUB TOTAL TAX TOTAL	S
CUSTOMER HAS	RECEIVED AND REVIEWED THIS DELIVERY TICKET/TERMS AND CONDITION ATED HEREIN, INCLUDING ALL OF THE TERMS AND CONDITIONS STATED THE	NS. CUSTOMER AGREE FRONT AND BACK OF	S TO THE T	GR TERMS AND RY TICKET.	DTAL	EE LOZ
HIS IS TO CERTI	WEIGHMASTER CERTIFICA FY that the following described commodity was weighed measured or counted by a	TE	atura ia an thi	4/5/4		- <u> </u>

WEIGHMASTER CERTIFICATE

THIS ISTO 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.

Department of Food and Agriculture.	and the control of th
Weighmaster: ROBERT STACY	
Batch Data	
Truck Driver User 8075 1034 user Load Size Mix Code Returns 2.00 CYDS 55060NR9	Disp Ticket Num Ticket ID Time Date 41024305 41218 11:35 12/12/16 ed Oty Mix Age Seq Load ID D 24301
Material Design Oty Required Batched CEMII/V 565.0 16 1130.0 16 1120.0 16 CONSAND 2544 16 5321 16 5300 16 WATER 60.60 GL 4060	% Moisture Actual Wat
Actual Num Batches: 1 Load Total: 6430 lb Design 0.886 Water/Cer	Manual 11:35:20 ment 0.886 T Design 120.0 gl Actual 27.8 gl To Add: 92.2 gl just Water: 0.0 gl / Load Trim Water:-47.0 gl/ CYD



B-133

CERTIFICATE OF COMPLIANCE

READY MIX CONCRETE								
TO: Mc Guire	\$ Hester							
We certify that the Portland cement below are br	t, chemical and mineral admixtural rands stated and comply with sp	res contained in the material described ecifications for:						
MIX ID:	CONTRACT NUMBER:	Slair Rd. Placeruill						
CEMENT BRAND:	TERMINAL LOCATION:							
Nevada Cemer		nento II						
	CHEMICAL ADMIXTURE	1601.00						
BRAND:	MANUFACTURER:	TYPE:						
BRAND:	MANUFACTURER:	ТҮРЕ:						
BRAND:	MANUFACTURER:	TYPE:						
BRAND:	MANUFACTURER:	TYPE:						
CHECK BOX IF A CHEM	MICAL ADMIXTURE WAS NOT US							
	MINERAL ADMIXTURE	SED						
MANUFACTURER:		CLASS:						
		F						
DELIVERY DATE: 12-12-2	ERAL ADMIXTURE WAS NOT USE	D						
LIST DELIVERY TAG NUMBERS:	2016							
AUTHORIZED SIGNATURE:	7							



600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530\6269751

1085 00002 65561 CASHIER SARAH

12/12/16 08:55 AM

0000-533-829 80# SAKRETE <A> 80LB SAKRETE CONCRETE MIX 803.45

27.60

SUBTOTAL SALES TAX TOTAL XXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 251476/2022473

27.60 2.21 \$29.81 29.81 TA

P.O.#/JOB NAME: 3926



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. B More doing.**

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM

820633976127 1"SLIDE RPR <A> 4.13

1" PVC SLIDE REPAIR COUPLING
049081137588 1-1/4 CPLING <A> 1-1/4" PVC COUPLING SXS
200.73

049081133160 PVC BUSHING <A> 1.26
1-1/4"X1" PVC BUSHING SPGXS
0000-193-712 PVC40 PEPIPE <A> 2.53

SUBTOTAL SALES TAX TOTAL
XXXXXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 446043/2012228

12/12/16 01:31 PM
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P.O.#/JOB NAME: 3926



RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON

Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 McClellan, CA 95652-2027

Tel: 1-855-284-1127 Fax: 916-640-8864 www.corix.com

INVOICE

COLIX Water Products

> Invoice Number: 17613035112 Invoice Date: 12/14/16

> > Page: 1

Bill To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603

Ship To: Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 MCCLELLAN, CA 95652-2027

USA

Cust No. Terms

Due Date

MCGHES

2% 10th next month net 30th next month

01/30/17

PST Exempt No.

SalesPerson Creator

Ship Via

Ship Date

Dale Rasmussen **JOGONZALEZ**

CUSTOMER PICK UP

12/12/16 P.O. Number

Our Order No. 17612036919

P.O. Date

Cust Job Name Blairs Lane Bridge Replacement

12/12/16

3926

GST Exempt No.

Posted By

NVERNON

Job No.

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 ***

Taxable Amount 690.00

Tax Exempt Amount

0.00

Subtotal: Invoice Discount: Total Sales Tax:

690.00 0.00 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

		ILI LAII	.,							
City Of Placervil									Change Order	028
	926 - Placerville - Blairs Lane Bridge								Billing Number	134.0
	lcGuire and Hester								Report Date	12/13/2016
Description of Work: Ca	altrans 7 Valero								Perform Date	12/13/2016
Labor Charges									Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs S	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
Equipment Char	ges								1	
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
Material/Special	ist Work/Lump Sum or Unit Price Payme	nt							ми 35.00%	<u>174.79</u>
Number	Date Vendor Name and Description				ι	Units	Unit Price	Extended	Labor Total	674.17
M01 0000100339	12/13/2016 Home Depot / Material Buy - Concrete	And Grout			1.	000 LS	40.34000	40.34		
									Equipment	_
									Subtotal	229.68
									<i>м</i> υ 15.00%	<u>34.46</u>
									Equipment Total	264.14
									Material C	harges
									Subtotal	40.34
									<i>м</i> υ 15.00%	<u>6.05</u>
									Material Total	46.39
									Subcontract	Charges
									Activity Total	984.70
									Bill Subtotal	984.70
			1 -							
Marine 1	McGuire and Hester		Ac	ccepted:					Bill Total 🛨	984.70
MCUIRE				Customer:			Date:			
HESTER	Jah Cantagti Illiana Cuttagga (040) 070 0000			N			-		Page 1	
	Job Contact: Hugo Gutierrez (916) 873-2690			Contractor:			Date:		. 490	



EXTRA WORK REPORT CONSTRUCTION COMPANY

			M&H JOB NO	: 3926	
			EXTRA WORK	K ORDER NO: 9830	280
TO: CITY OF PLACERUTLY	C		DATE OF RE		
PROJECT: BLAZES LANE		6	DATE PERFO	PRMED: 12-13-14	
	(HAM	ME A	Hoil I		- Tean
· · · · · · · · · · · · · · · · · · ·	orn	DRAGA	7	/ CONCRETE	
COURT AND THEN	\sim	CKFIL	1 -	<i>V</i>	
SUMMARY OF LABOR AND EQUI					
EMPL # EMPLOYEE NAME E	Q# E	EQ DESC	RIPTION	TRADE	HOURS
4273 ROGER KRUG 0.	2292 1	F-250	PU	LABOR FOREMAN	4
6728 Eaxe PANSEZ					Ц 4
C	SU34	Ass	Compressor		B
			1		
				· .	
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		## (200 ## (1994)			
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		COLUMN TO A STATE OF THE STATE			
SUMMARY OF MATERIAL & SPEC	NALTY E	-OPAES			
				i dan a la l	e kalenda ku da un salan da
Perform at a	15 NO	ot in	Livala -	work will b	R
PETTURNE AT A	Int	xx o	Ly it		
2- BAG	25	FAST	SETTENC-	CONCRETE	
	•				
2 - BA	63	Non:	SHRENK	Glovs	
		•			
			- A		. /.
Kocca Krug-				The 12/3	1116
McGuire & Hester Representative		*		Work Authorized by / I	Date



More saving. More doing.

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 CASHIER SANDRA 12/13/16 07:30 AM

0000-842-303 50# FAST SET <A>
50LB FAST SETTING CONCRETE MIX
203.98 7.96
NLP Savings \$1.40
764661163503 50#GROUT <A>
50LB NON-SHRINK CONSTRUCTION GROUT
29.40

SUBTOTAL 37.36 SALES TAX 2.98 TOTAL \$40.34 XXXXXXXXXXXXXXXX6213 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.



McGuire & Hester Representative

EXTRA WORK REPORT CONSTRUCTION COMPANY

			M&H JOB NO	3926		
			EXTRA WOR		NO: 98300	989
TO: City of Percentur	6_		DATE OF RE	PORT:	-19-16	
PROJECT! RLASAS LANG	BR		DATE PERFO	DRMED: /	2-19-16	
DESCRIPTION OF WORK: Re	- GRAC	SE CA	TRANS	Drave	WAS AF	TER
DIGGING TRENCH	Fore	NEW	DEATH	INSO	-1	
· ·	,					
SUMMARY OF LABOR AND EQ	JIPMEN	ranga.	ni The Maria I are the primary against the			
EMPL # EMPLOYEE NAME	EQ#	EQ DES	CRIPTION	TRADE		HOURS
4273 Rocer Krue	02297	F-25	TO PU	LABOR	Forenen	1
7359 CUETIS SMITH			•	OPERA	•	1
1227 LESSE Day	-			L	130-12	1
/	09043	SKID	LOADER			1
	15026	481.	Rover			
			^			
				is as contra		
SUMMARY OF MATERIAL & SPI	A PIALEN	FURUE				
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<u> </u>						
1 0 ''				1 1 . 1	,	1
Rocer Kews-			<i></i>	A-16	12/2	1/16

		<u> </u>	A WORK REP	<u> </u>				
City Of Placervil	le						Change Order	028
Contractor Job: 39	926 - Placerville - Blairs Lane Bridge						Billing Number	135.0
	cGuire and Hester						Report Date	12/19/2016
Description of Work: Ca	altrans Driveway						Perform Date	12/19/2016
Labor Charges							Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate Subs Rate	Extended	⊣	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
- ⁰³ 1227	JA Day II	1.00		50.260		50.26		
Equipment Char	ges						Subtotal Labor	208.96
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
09043	John Deere 210 LJ Skip Loader	1.00		57.010		57.01	MU 35.00%	<u>73.14</u>
15026	CB 224E 47" Double Drum AC 06	1.00		56.810		56.81	Labor Total	282.10
							Equipment	_
							Subtotal	136.58
							<i>м</i> υ 15.00%	<u>20.48</u>
							Equipment Total	157.00
							Material C	harges
								gee
							Subcontract	Charges
							Activity Total	439.16
							Bill Subtotal	439.1
	McGuire and Hester		Accepted:				Bill Total ∔	439.1
M'CUIRE HESTER			Customer:		Date:			
HESTER	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:		Date:		Page 1	

				AWORKKILL	<u> </u>					
City Of Placervil									Change Order	028
		erville - Blairs Lane Bridge	Э						Billing Number	136.0
Work Performed By: M									Report Date	12/20/2016
Description of Work: Ch	nevron Drive	way							Perform Date	12/20/2016
Labor Charges									Labor Cha	
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 Sullivar	າ	1.50		50.260			75.39	OT Labor	0.00
L03 3844	C Jones		1.50		50.260			75.39		
Equipment Char	ges								Subtotal Labor	305.99
Equipment ID	Description	1	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 02292	Ford F-2	250 Utility Pickup	2.00		22.760			45.52	Other Expenses	0.00
Material/Special	ist Work/L	ump Sum or Unit Price	Payment						ми 35.00%	107.09
Number	Date	Vendor Name and Description			I	Units	Unit Price	Extended	Labor Total	413.08
M01 5136232	12/20/2016	Ferguson Enterprises / Materi	ial Buy - Fittings		1.	.000 LS	70.47000	70.47		
M02 17613035655	12/20/2016	Corix Water Products / Materi	ial Buy - Drain Box		1.	.000 LS	248.41000	248.41	Equipment	_
									Subtotal	45.52
									<i>MU</i> 15.00%	<u>6.83</u>
									Equipment Total	52.35
									Material C	harges
									Subtotal	318.88
									MU 15.00%	47.83
									Material Total	366.71
									Subcontract	Citalyes
									Activity Total	832.14
									Bill Subtotal	832.14
(Column 1)	McGuire	and Hester		Accepted:					Bill Total +	832.14
MCUIRE				Customer:			Date:			
THE LEK	lob Cont	ot. Hugo Cutions - (040) 070 0	600	0			Deter		Page 1	
	Job Contac	ct: Hugo Gutierrez (916) 873-20	UEO	Contractor:			Date:		. ugu	



EXTRA WORK REPORT

CONSTRUCTION COMPANY

	MAH IOD NO. 2021
	M&H JOB NO: 3926
	EXTRA WORK ORDER NO: 9830020
TO: CITY OF PLACEPUTUE	DATE OF REPORT: 12-20-16
PROJECT: BLACKS LAVE BR	DATE PERFORMED: 12-20-16
DESCRIPTION OF WORK: JOENTITY DA	SINAGE PROSES WITH LAZER
AND THERAID DIG AND INS	
DI @ STATION # 108+30	
SUMMARY OF LABOR AND EQUIPMENT	
EMPL # EMPLOYEE NAME EQ # EQ DES	CRIPTION TRADE HOURS
4273 ROSER KRUL 07292 F-25	
7560 KEWEN SULTIMA	LABOR 1.5
3844 CHEES JONES	1.5
SOIT CHES SINES	LAU C 113
·	
SUMMARY OF MATERIAL & SPECIALTY FORCES	
	_
FERGUSON ENTERPRISES	INC.
2 - 4" 22° FETTENGS	
1-4" Couples	
1- Can PUC CEMENT	
The same of the sa	
CORIN WATER PRAS	
	VX S
V-12 ORAGU BOX V-12 STEEL GRATE	•
UTIL STEEL GRATE	
	14
Koull Kevi	April 19191116
McGuire & Hester Representative	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
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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name		Invoic Date	Batch	
610	610	CA09PL	3	3926	679	BLAIR'S & BROADWAY		12/20/20	12/20/2016	
Ordered	Shipped	Item	Number		Descrip	Unit Price	UM	An	nount	
1	1	H25515		4 0Z PRO-PO	XY EPOXY 20)	5.99	90 EA		5.99
1	1	P40SCP		4 PVC S40 SX	S COUP		5.58	33 <i>EA</i>		5.58
1	1	031020		32 OZ PVC MI	32 OZ PVC MED CLR CMNT			63 <i>EA</i>		20.66
2	2	PSDTC26	60S	2X60 DUCT TA	APE PREM GE	10.86	60 EA		21.72	
2	2	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	? ELL	5.65	50 EA		11.30

 Invoice Sub-Total
 65.25

 Tax
 5.22

 Total Amt
 70.47

TOTAL DUE ---> 70.47

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

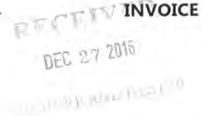
WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

7/		UJUI	A EIA 1		EJ, MTC.	a WOLSELLY com	pany								SHOWROOM SOURCE =		and the second
FE	I PLAC	ERVELLI	E #610			· · · · · · · · · · · · · · · · · · ·									IB FRT =		
		D SPRI		s mmm											OB SHP =	M . 716 10	.O.
171		i.l., i., i.,	A 95667	**************************************				*							20 DEC 21 WRITER	SALES	SMAN
HCI ORDER NO	: 530-	-622-32	91 FA	X: 530-622- HPWHS. SELLW	-249 <u>)</u> HS.			STOCK	SA	L E S	ORD	ER			TAG P.O. NO.	fi	<u> 79 — </u>
13623	2	12/2	0/16	610 6	10												
CUSTOMER		44 A. S. S. S.	PHA CONTRA	ACT NO.	BID NO.	ORDER DATE	ORDERED BY		INST	RUCTIONS					OML CONTACT		·
11331	ļ,	<u> 1CGUILRE</u>	AN L			1.2/20/16	I ROGER CR	'Fbl	—						<u>Aaron Ima</u> VENDOR	<u>schwel</u>	ller
S MOGH	ITRE ON	ID HEST	e p		s cr	DUNTER PICK	(JD										
9009	RAILE	VA CAOS	ENUE			350 COLD SPE									VENDOR P.O. NO.		
OAKL	AND, C)A 9450	3		P P	LACERVILLE,	CA 95667-4	.003	SHIP	VIA					ROUTE NO.	RUN N	IO. DEPAR
				-	T					u count	CD DT	^V116	5				
o					Ö			•	PCS		BOXES	CRATES	LENGTHS	BUNDLES	ROUTE DESC.		
		510-632									SHIP D	<u> </u>	DELIVER) DY	PACKED BY	CHEC	CKED BY
CUSTOME	R P.O. NO.		JOB NAM	,		ATTN:			SHIP	' W I.	SHIP D	AIE	DELIVER	HED BY	PACKED BY	CHEC	YCD DI
GOS LINE O	RDER OTY.	SHIP QTY.	TRLAT	R'S & BROAD	OMAY CODE		DESCRIPT	TION		UNIT PRI	ICE	U/M	TOTAL	 L	P.O. NO.		AISLE LO
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	la classica.														ne na a	lb 📗	
				MATERTAL SI	<u>AFFTY DATA</u>	A SHEETS ARE	<u> </u>	UPON REQUES	9T				6.0 March		(C. (6.6)		
			Transfer State of the State of	P40SCP		4 PVC S40	ava valle			F	583 E	n O					X18I
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OF WARR																	
CUSTOME	R'S			e de la companya de l					TERM	S:					*CONTINUE))*	
SIGNATUR					<u> </u>	DATE:	· · · · · · · · · · · · · · · · · · ·	rest of the second seco									
							CUSI	OMER COPY								the same as and the same	ment of the second

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 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

Cust No.

Item No.

WWV12

MCGHES

Terms

2% 10th next month net 30th

Description

V12 DRAIN BOX H20

V12 STEEL GRATE HD

next month

Due Date

PST Exempt No.

01/30/17

SalesPerson Creator

Ship Via

Ship Date

12/20/16

OUR TRUCK

Dale Rasmussen JOGONZALEZ

P.O. Date P.O. Number 12/20/16

3926

1

Our Order No. 17612037662 Cust Job Name Blairs Lane Bridge

Replacement

GST Exempt No.

WWV1271W420

Posted By

NVERNON

Unit

EA

EA

Job No.

1

Total Price Order Qty Quantity **Unit Price** 130.00 1 130.00

100.00

*** If Paid by 01/10/17, discount available = \$4.60 ***

0,00

Taxable Amount

Tax Exempt Amount

230.00

Subtotal: Invoice Discount: Total Sales Tax:

230.00 0.00 18.41

100.00

Total:

248.41

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

Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway Labor Charges		028 137.0 12/21/2016
Work Performed By: McGuire and Hester Description of Work: Chevron Driveway Labor Charges Labor ID Employee Name REPORT Perfor REPORT Perfor REPORT Perfor REPORT Perfor REPORT Perfor RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended	ort Date	
Description of Work: Chevron Driveway Labor Charges Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended RT Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended		,, _ 0 . 0
Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended		12/21/2016
Laborito 171113 OTTHIS Cabs Office 1711Acc Cabs Natic Extended	Labor Char	
L01 4273 R Krug 1.00 1.00 61.210 80.710 141.92 sc	Labor	563.81
	C 12.00%	67.67
L ₀₂ 7560 K Sullivan 5.00 50.260 251.30 OT La	Labor	80.71
L03 3844 C Jones 5.00 50.260 251.30 SC	C 12.00%	9.69
Equipment Charges Subto	ototal Labor	721.88
	osistence	0.00
E01 02292 Ford F-250 Utility Pickup 2.00 22.760 45.52 Other	er Expenses	0.00
Material/Specialist Work/Lump Sum or Unit Price Payment	1U 35.00%	<u>252.66</u>
Number Date Vendor Name and Description Units Unit Price Extended Labor	oor Total	974.54
M01 90281 12/21/2016 Syar Concrete LLC / Material Buy - Slurry 1.000 LS 382.87000 382.87		
M02 0005625058 12/21/2016 Home Depot / Material Buy - Concrete & Mortar Bags 1.000 LS 30.41000 30.41	Equipment C	_
Subto MU		45.52 <u>6.83</u>
		52.35
	uipment Total	JZ.33
	Material Ch	ıarges
Subto	ototal	413.28
MU	15.00%	<u>61.99</u>
Mater	terial Total	475.27
	Subcontract (Charges
Activi	ivity Total	1,502.16
Bill S	Subtotal	1,502.16
McGuire and Hester Accepted: Bill To	Total +	1,502.16
MCGUIRE HESTER Customer: Date:		
	ge <u>1</u>	

B-137



EXTRA WORK REPORT CONSTRUCTION COMPANY

	M&H JOB N	0: 3926	
	EXTRA WO	RK ORDER NO: 98300	76
TO: CITY OF PLACEDULISE	DATE OF RI		
			6
	<u> </u>		
) REVEUR
Y.	08+30 Pove	SAND SURRY	AP
Aux Mocras Au L	Box's		
SUMMARY OF LABOR AND EQUIPMEN	t		
EMPL# EMPLOYEE NAME EQ#	EQ DESCRIPTION	TRADE	HOURS
4273 Rocce Kris 02297	2 F-250 PU	LASAL FOREMAN	1//07
7560 KEUSA SULLEURW		LAGOR	'5
3844 CHEES JONES		LABOR	5
			<u> </u>
SUMMARY OF MATERIAL & SPECIALT	Y FORCES		
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	4	1111	
Karea Keve	<u> </u>	Ant Money	1/11/16
McCuire 9 Heater Depresentative	,	Mark Authorized by / I	note.



SYAR CONCRETE LLC PO BOX 2700 NAPA, CA 94558 (877) 792-7649

INVOICE 90281

DATE 12/21/2016

Sold To:

MC GUIRE & HESTER 9009 BAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE CA

Page 1

***	**********						
		ject Code 84	Purchase Order P3926-08	Job Number 3926	7	Order	
			Product	************************	Unit of	Unit	Extended
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price
12/21	41024366	1.50	SSOCONR9	SAND SLURRY	dy	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



TOTAL YARDS	TAXABLE AMOUNT	8.000 TAX	NON-TAXABLE	
1.50	354.50	28.37	0',00	TOTAL DUE
********		************		\$382.87
DISCOUN	T TAX ON			
AMOUNT	DISCOUNT	IF PAID B	Y YOU MAY DEDUCT	
1.50	0.11	01/10/201	7 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).



EW-DI'S

B-137

SYAR CONCRETE LLC

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE	TICKET #	
12/21/2016	41024366	5
P.O. #	JOB#	
P3926-09	3926	· .
SYAR ORDER #	<u> </u>	
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<u> </u>		* 4 1 Ø	2 4 3	5 6 *	L			·
SOLD TO		1 Ma	DELIVER TO		-		PLANT CODE	
MCGUIRE	-H		BLAIRS	LANE BE	RIDGE REPLA)m	41 0	ameron Pa
	RE & HESTER				WAY PLACER		PLANT LOCAT	
in party, productions and in	distance that if I control take a large of a					* A Par discard drawn, safety	. 1	rock Rd.
START BATCH/MIX CYC	E LEAVE PLANT	ARRIVE JC	D S	START POUR	FINISH POUR	Ι ΜΔ	SHOUT	LEAVE JOB
START BATCH/MIX CYCI	1200			.25	23	WAY	311001	CLAVE JOB
4 + 4 775	1200	1220	1/2	ر بوء - حرب	1230			
SCHEDUĽEĎ ĎEĽÍVÉRYTIM	ME CU. YDS. ORDERED	CU. YDS. DELIVERED	LOAD #	MIX D	ESIGN #	SLUMP		USAGE
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8053	MARK WOONE	R	<u>. 1</u>	WASHOU	T USED YES 🔀	NO 🔲 DI	RUM COUNTER	TIL AND THE
BUYER IS RESPONSIBLE	FOR PROVIDING SAFE A	CCESS OFF PAVEMEN	T. The size and	weight WATER	ADDED AT CUSTOMER I		SUB TOTAL	
decire. Vour signature held	amage to the premises and w is a RELEASE relieving this	s supplier and its affiliate:	s from any respon	sibility To	CONCRETE PERFORMA		TAX	
from damage that may o	ccur on this premises and/onprovements, buildings, etc.	or adjacent property suc	h as curbs, side	walks, X			TOTAL	
hain the driver remove mile	d from the wheels of his/her v	vehicle so that is will not l	itter the public str	'eet(s). I full loan	REQUESTOR'S NAME 3/4 LOAD 1/2 LOAD	1/4 LOAD	IOIAL	
Additionally, the undersign	ned agrees to indemnify and ir any and all damage to the i	I hold harmless the drive	er of this truck ar	nd this		10/	· · · · · · · · · · · · · · · · · · ·	W
claimed by anyone to have	arisen out of delivery of this	order.	proporty, willow in	(GALLONS)	(GALLONS) (GALLONS)	(GALLONS)		
SIGNED:			<u> </u>			co ro	roi.	· ·
CUSTOMER HAS BECE	VED AND REVIEWED THIS	S DELIVERY TICKET/TI	ERMS AND CON	IDITIONS. CUSTO	MER AGREES TO THE	TERMS AND	! I-!_	
CONDITIONS STATED IT	EREIN, INCLUDING ALL OF	THE TERMS AND CON	IDITIONS STATE	ED THE FRONT AN	D BACK OF THIS DELIV	ERY HUKET.		لما
Signed:								
THIS IS TO CERTIFY that to prescribed by Chapter 7(c) Department of Food and A	the following described common to the following described common to the following with Section 127 agriculture.	WEIG modity was weighed, me 7000 of Division 5 of the C	SHMASTER CER asured, or counte California Busines	RTIFICATE ed by a weighmaste is and Professions (r, whose signature is on the Code, administered by the	nis certificate, who a Division of Mea	o is a recognized a surement Standard	uthority of accuracy as is of the California
Weighmaster: ₽(BERT STACY							
150	and Appendix and Appendix and Appendix							



600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM CASHIER SELF CHECK OUT

000110041000 IOP II	.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <a> 50LB FAST SETTING CONCRETE MIX	
2@3.98	.96
NLP Savings \$1.40	4
727096305559 RAPID MORTAR <a> 14	1.45
RAPID SET 55LB MORTAR MIX	

SUBTOTAL.	28.16
SALES TAX	2.25
TOTAL	\$30.41
XXXXXXXXXXXXXX6213 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.



1085 56 25058 12/21/2016 5799

	אט		KA WUKK KEP	OIVI					
City Of Placery								Change Order	028
	3926 - Placerville - Blairs Lane Bridge							Billing Number Report Date	143.0 12/30/2016
	McGuire and Hester Drainage Modifications To Driveways							Perform Date	12/30/2016
Labor Charges								Labor Cha	
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	-	0.00
L03 7560	K Sullivan	1.00		50.260			50.26		
Equipment Cha	arges							Subtotal Labor	208.96
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 02268	Ford F-150 2013 HD Pickup	1.00		22.760			22.76	<i>ми</i> 35.00%	<u>73.14</u>
E03 02211	Ford F250 2008 3/4 ton xcab	1.00		22.760			22.76	Labor Total	282.10
Material/Specia	alist Work/Lump Sum or Unit Price Payme	ent							
Number	Date Vendor Name and Description				Units	Unit Price	Extended	Equipment	•
M01 90450	12/30/2016 Syar Concrete LLC / Concrete Buy			1	.000 LS	117.72000	117.72		68.28
								<i>MU</i> 15.00%	<u>10.23</u>
								Equipment Total	78.51
								Material C	harges
								Subtotal	117.72
								<i>м</i> υ 15.00%	<u>17.66</u>
								Material Total	135.38
								Subcontract	Charges
								Activity Total	495.99
									100.00
								D	405.00
								Bill Subtotal	495.99
	McGuire and Hester		Accepted:					Bill Total +	495.99
M'GUIRE HESTER			Customer:			Date:			
HESTER						_		Page1	
	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:			Date:		ı ay c '	

NTS Special Bill Form



EXTRA WORK REPORT

CONSTRUCTION COMPANY

					M&H JOB NO: 3926					
		<u> </u>			EXTRA WO	RK ORDER	NO: 9830	028		
TO: C _I	TY OF	PLACEQUELL	Ł		DATE OF RI	EPORT: 12	-30-16			
PROJEC	OT: 1 RUE	-ne / Ani	e Ri	7	DATE PERF	ORMED: 1	2-30-16			
DESCRI	PTION OF	WORK: Cu	T OUT	A/C	ANO	Pour	Conversa	7/5		
ŧ		Moura	DRAE			(31)		7.5		
				- · · · · · · · · · · · · · · · · · · ·						
SUMMA	RY OF LA	BOR AND EQ	UIPMEN.	T						
EMPL#	T	EE NAME	EQ#	T T	CRIPTION	TRADE		ПОПРО		
4273		Keva	02292		D PU	_	- 15	HOURS		
73.59	1 1	s Smary	02768	1	_	LASE	r Foreman	- /		
7560	VENT	SULFUAN	02711	F.25		1 1 1	moon			
onth	REUSA		102/11	F. C.		<u> </u>	07C	/		
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SUMMA	HY UF MA	TERIAL & SP	ECIALTY	FORCES						
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K00	ier Kn) W				tut let	1/17/	b		
McGuire &	Hester Re	presentative			(Work Au	thorized by / D	ate		



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 MCGUIREHES		Project Code 4584		Purchase Order P3926-08	Job Number 3926		Order 8	
****	=========		Product		Unit of	Unit	Extended Price	
Date	Ticket #	Qty	Code RP060AR5	Product Description CONCRETE	Measure	101.00	707.00	
12/30	41024436	7.00	113065	SYAR SET 55	/Y	80.00	56.00 80.00	
12/30	41024436	1.00	157005	MINIMUM LOAD CHA STANDBY CHARGE	ea	2.00	74.00	
12/30	41024436	1.00	157000 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

JAN 05 2017
MCGUIRE ANDER

NON-TAXABLE 8.000 TAX TOTAL YARDS TAXABLE AMOUNT TOTAL DUE 855.00 68.41 \$997.41 TAX ON DISCOUNT IF PAID BY YOU MAY DEDUCT DISCOUNT AMOUNT 7.53 01/10/2017 0.53 7.00

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 PLACERVIL	LE		Y	Ş	Sheet 1	of 1
CONTRACT CH	ANGE ORDE	R	Change Requested by:	⊠ Ci	ity	Contract
CCO No. Suppl. No.	Contract No. 40604	Project Blairs Lane	Bridge Replacement		al Project N BRLO-50	
To: McGuire & I	Hester, Inc.			passallini intringiamine intringiament		
		es from the plans and specification	ons or do the following described work		ded in the pl	ans and
specifications for this con	tract NOTE: This o	change order must be approve	d by the City Council:	X Yes	N	lo
Description of work to be	done, estimate of qua	ntities and prices to be paid. (Segr	egate between additional work at contra	act price, aç	greed price a	nd force
account.)					ani an	
In accordance with Sect Engineer.	ion 4-1.05, "Chan	ges and Extra Work," of the	Special Provisions, work premiur	m time as	s directed b	y the
Extra Work at Force	Account:					
DEWR 24-109.0				***********	\$50	0.94
EWR 24-110.0	***************************************				\$23	5.21

					-	
otal CCO #14 Amoun	t:				\$5,164	1.78
The contractor agrees to	accept the lump s	um of \$5,164.78 as full and c	complete compensation for this cl	hange ord	der.	
		Estimated Cost	: Decrease Increase	e	\$5,164.	78
	ne time of completion	will be adjusted as follows:	No additional working	days		
Submitted by		-				
SIGNATURE		(PRINT NAME	& TITLE)		DATE	-/-
	ves	Rebecca Ne	eves P.E., City Engineer		12/2	3/17
Approved SIGNATURE	· · · · · · · · · · · · · · · · · · ·	(PRINT NAME	& TITLE)		DATE	***
31311113112		1 '	s, City Manager		DATE	
Approved		Cieve Morri	s, City Manager			***************************************
SIGNATURE		(PRINT NAME	& TITLE)		DATE	
			and agree, if this proposal is approved services necessary for the work abov			
			ot sign acceptance of this order, you and filing a written protest within the			
Contractor Acceptance						
SIGNATURE		(PRINT NAME			DATE	-
<i>>///</i> \		JEFF HO	EBEZ UP AREA MWAGE	EN.	12/	22/17

CITY OF PLACERVILLE CONTRACT CHANGE ORDER				Sheet 1 of				
				Change Requested by:	⊠ City	Con	ntractor	
CCO No. 14	Suppl. No.	Contract No. 40604	Project Blairs Lane B	Bridge Replacement	Federal Proje			
то: Ме	Guire & F	lester, Inc.						
You are dir	ected to make	the following change	s from the plans and specification	ns or do the following described wo	rk not included in t	he plans and		
			hange order must be approved		⊠ Yes □] No		
Description account.)	n of work to be o	done, estimate of quar	ntities and prices to be paid. (Segre	gate between additional work at conti	ract price, agreed pr	ice and force		
In accordan Engineer.	ice with Secti	ion 4-1.05, "Chang	ges and Extra Work," of the S	special Provisions, work premit	um time as direct	ed by the		
Extra Wor	k at Force A	Account:						
DEWR 24-1	00 D			***************************************		\$50 O4		


				~~~~~				
				***************************************				
				************************				
				*******************************				
DEWR 24-1:	21.0	*************	**************************************	************		\$126.86		
DEWR 24-1:	22.0	*********************	**********	*******************************		\$157.96		
DEWR 24-1:	23.0	*****************	******************	*******************************	\$1	,105.63		
DEWR 24-1:	24.0	******************	*******************	*****************		\$118.38		
DEWR 24-1:	26.0	******************	***********************************	********************************	***************************************	\$358.26		
DEWR 24-1:	27.0		**************************************	***************************************		\$258.23		
Total CCO	#14 Amount	•	***************************************	***************************************	······S5	,164.78		
The contrac	tor agrees to	accept the lump so	um of \$5,164.78 as full and co	omplete compensation for this	change order.			
			Estimated Cost:			64.78		
By reason Submitted		e time of completion	will be adjusted as follows:	No additional working	days			
SIGNATUI	A CONTRACT OF THE PARTY OF THE		(PRINT NAME 8	R TITTLE)	l DA [*]	TE		
			1	ves P.E., City Engineer				
Approved			Table III					
SIGNATUR	(E		(PRINT NAME 8		DAT	ΓE		
			Cleve Morris	, City Manager				
Approved SIGNATUR			//PDINT NAME (	TITLE	LDAS			
SIGNATUR	76		(PRINT NAME 8	k !!!LE)	DAT	E		
We the unde	ersigned, have	given careful consid	eration to the change proposed a	nd agree, if this proposal is approve	ed, that we will prov	vide all equipr	ment.	
	-	_		services necessary for the work abo	•			
payment the	erefor the price	s shown above. NOT	E: If you, the contractor, do no	t sign acceptance of this order, y nd filing a written protest within	our attention is d	irected to the		
	r Acceptance				7 1171911 0			
SIGNATUR		7.1	(PRINT NAME 8	(TITLE)	DAT	E		
	7/10/1	4//				_1 _ 1.	e Sample	
	////		JEFF Ho	EBEL VP ANGA MAI	INLEIL	4041	<u></u>	
				ş ş				

CITY OF PLACERVILI	_E		/	Sheet	1	of <b>1</b>
CONTRACT CH	ANGE ORDE	R	Change Requested by:	City		Contracto
CCO No. Suppl. No.	Contract No. 40604	Project Blairs Lane	Bridge Replacement	Federal Proj BRLO	ject Num 0-5015(0	
To: McGuire & I	lester, Inc.			ne alle a transcription de la representation de la representation de la representation de la representation de		
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specifications for this con	tract. NOTE: This c	change order must be approve	d by the City Council:	⊠ Yes [	No	
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DEWR 24-110.0					. \$235.21	l
DEWR 24-111.0	**************				. \$241.51	į
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otal CCO #14 Amount	·•			\$	5,164.78	;
The contractor agrees to	accept the lump s	um of \$5,164.78 as full and o	complete compensation for this ch	nange order.		
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Approved						
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		Cleve Morri	is, City Manager			***************************************
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CITY OF PLACERVILLE			Sheet 1 of 1	
CONTRACT CH	ANGE ORDE	R	Change Requested by:	
CCO No. Suppl. No.	Contract No. 40604	Project Blairs Lane	Bridge Replacement	Federal Project Number: BRLO-5015(009)
To: McGuire & F	lester, Inc.			
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EWR 24-110.0	************	*****************	*******************	\$235.21
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otal CCO #14 Amount	***************************************			\$5,164.78
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CONTRACT CHANGE ORDER  Change Requested by: City Contract No. Contract No. 40604 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 proces to be poid. (Sogregate 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	CITY OF	PLACERVILL	E				Sheet	1	of	1
To: McGuire & Hester, Inc.  To	CONTR	RACT CHA	ANGE ORDER		Change Requested by:	$ \boxtimes $	City		Cont	ractor
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DEWR 27-94.0					pecial Provisions, clean tank	s and filtra	ation equ	ipmen	t used	to
The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order.    Estimated Cost:	Extra Woi	rk at Force A	ccount:							
The contractor agrees to accept the lump sum of \$5,339.13 as full and complete compensation for this change order:    Estimated Cost	DEWR 27-	94.0					\$5	,339.1	3	
Estimated Cost: Decrease Increase S5,339.13  By reasop on his order the time of completion will be adjusted as follows: No additional working days  Submorted by  SIGNATURE (PRINT NAME & TITLE) Rebecca Neves P.E., City Engineer  Approved  SIGNATURE (PRINT NAME & TITLE) Cleve Morris, City Manager  Approved  SIGNATURE (PRINT NAME & TITLE) 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)  DATE	Total CCO	#13 Amount	<b>:</b>				\$5	,339.1	3	
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	PLACERVILI				She	et 1	of 1
CONTR	RACT CH	ANGE ORDE	R	Change Requested by:			Contract
CCO No. 13	Suppl. No.	Contract No. 40604	Project Blairs Lane B	ridge Replacement		roject Nu LO-5015	
To: Mc	Guire & F	lester, Inc.					
			es from the plans and specification change order must be approved		ork not included  Nes	in the plans	and
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			1	, City Manager			
Approved							3 1 2 3 1 3 1 3 1
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	r Acceptance	by	(MM1219221222			D	
SIGNATUR	E	// //	(PRINT NAME &	TITLE)		DATE	
	///X	45/	JEFF HOE	BEL VP AREA MA	WAGER	2/22	117

### STATE OF CALIFORNIA. DEPARTMENT OF TRASPORTATION

CONTRACT CH		MEMORANDUN	Л	Date: 01/23/20	016	
To				Blairs Lane Bri	dge Replacement	
City Of Place	rville				•	
From				Prj # 40604		
UNICO Engineering, Inc., Carl Sloan, RE				Fed No.: BRLO 502	dge Replacement  5 (009)  ce (Including this change)	
CCO No				Contingency Balar	nce (Including this change)	
12						
CCO Amount \$36	5,900.00			·	· · · · · · · · · · · · · · · · · · ·	
∑ Increase □	Decrease			with environment	ai documents?	
Original Contract Working Days:	Time Adjustment This Change:	Previously-Approved CCO Time Adjustments	_	ne Adjusted To Date g this change)	Unreconciled Deferred-Time	
<u>170</u>	<u>0</u> Day(s)	<u>21</u> Day(s)		12%	<u>o</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 facailities.

### **Extra Work Calculations:**

### **Working Days:**

No additional working days are granted.

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

CITY OF	PLACERVILL	.E				Sheet	1	c	of 1	
CONTR	RACT CHA	ANGE ORDER	?	Change Requested by:	$\boxtimes$	City			Contrac	or
CCO No. 11	Suppl. No.	Contract No. 40604	Project  Blairs Lane B	ridge Replacement	Fe	deral Proje BRLO				
то: Мс	Guire & H	lester, Inc.								
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account.)										
By reason	of this order th	ne time of completion	Estimated Cost:	☐ Decrease ☐ Increa		Defe	<u>err</u>	ed_		
Submitte		o time or completion			aayo	<u>g. a </u>				
SIGNATU	11/1	en Neves	(PRINT NAME & Rebecca Ne	k TITLE) ves P.E., City Engineer		DA 12		/16		
Approved			·							
SIGNATU	RE		(PRINT NAME 8	,		DA	TE			
	. – –		Cleve Morris	s, City Manager						
SIGNATU		<del>/ ( ) /</del>	(PRINT NAME 8	L TITLE)		DA	TE			
OIOIVATO	and be	), //	,	Engineer				1/16	6	
				nd agree, if this proposal is approv						t,
				services necessary for the work ab t sign acceptance of this order,						
requireme	nts of the spe	cification as to proc	eeding with the ordered work a	nd filing a written protest within	the tin	ne therein s	pec	cified.	•	
	or Acceptance	by								
SIGNATU	IGNATURE (PRINT NAME & TITLE) DATE									



### 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.

1. Sh

TITLE: Resident Engineer



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

Project Title

<b>M&amp;H S#</b> 069.
------------------------

Blairs Lane Bridge Replacement

						Contract No.	40	604	M&H	Job#	39	26
Submitt	ted To	):		Carl Sloan		Location		F	Placerv	ille, CA	١	
Address	3:			549 Main Street			1st	_ 2nd _	3rc	l (	other _	_
				Placerville, CA 95667		Sub/Vender						
Attentio	n:			Carl Sloan		Contact						
Phone:				916-218-8432		Telephone			_	Sub/Ven	Subm'l#	
ACT	ION T	AKE	١	M&H SUBMITTAL	Date Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
A- Approve	ed			Subcontractor to Contractor								
AAN- Appr	oved as	Noted		Contractor to Owner	12/20/16			X				
RR- Revise	& Resu	bmit		Owner to Consultant								
R- Rejected	t			Consultant to Owner								
AR- Ackno	wledge l	Receipt	t	Owner to Contractor								
RWR- Retu	rn W/o F	Review		Contractor to Subcontractor								
A AAI	N RR	R	AR	Specification No.		1	Descrip	tion	ı	ı		
				Section 39-2.02		AC Pavin	g Quality	v Control	Plan			
	_With			erial transmitted herein is in c ptions Except for			an	rie l		cia		
Review	Comi	ment	s:				McGuir	e and He	ester			



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. 0
- - Luis Maca.
- Quality Assurance Technician II.
- John Scroggins. Quality Assurance Technician II.
- 0
- Brandon Snyder. Quality Assurance Technician III.
- Taylor Theis. 0
- 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

Quality Control Testing - Teichert Aggregates Quality Assurance Schedule; Hamburg tests shall not be required.

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

City of Placerville – Blairs Lane Bridge Replacement Project Page 3 of 4 12/20/2016



### (Tensile Strength Ration, %)

Smoothness Section 39-1.12B & D TBD Onsite

12-Ft

Profilograph not required.

(McGuire & Hester) Straight Edge

#### **Paving Operations:**

### —Per approved submittal 59

- 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.
- 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. 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).

Rollers shall be minimum of those required in Geocon letter.

Driveways may be

built first at M&H

option.

- 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 Profiliograph required.

### 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.

City of Placerville – Blairs Lane Bridge Replacement Project Page 4 of 4 12/20/2016



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,

McGuiçe & Hester

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:

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

TITLE: Resident Engineer



### GEOTECHNICAL . ENVIRONMENTAL . MATERIALS



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."

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 211Abrasion 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
Construction Materials Testing:				
Soils		Х		
Concrete	X			
Asphalt		Х		

### 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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
TVOILE	☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 123 = SAMI LING MATERIALS ☐ CTM 201 = SAMPLE PREPARATION
03/17	 ☐ CTM 201 – SAWI EE TREFARATION ☐ CTM 202 – SIEVE ANALYSIS
03/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 ☑ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ☑ CTM -227 -CV
03/17	 ☐ CTM -206,207,208,211,
03/17	 ☑ CTM -234,235,371,384
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	$\square$ CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX

### **GIRMAY BEYENE**

District 03 Materials Engineer

Jache 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: 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
Construction Materials Testing:				
Soils	X			
Concrete	X			
Asphalt	Х			

### **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

# TL -0115 (07/2012) 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. T 304 Uncompacted Void Content, Fine T 11 Materials Finer Than 75-um, Wash T 308 Binder Content, Ignition, Method A T 27 Sieve Analysis, Fine & Coarse Agg. R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 84 Bulk SpG (SSD) of Fine Aggr. T 324 Hamburg Wheel-Track Testing T248 Reducing Sample of Agg T 85 Bulk SpG (Oven Dry), Coarse Agg. T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. Jache 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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
06/18	 □ CTM 125 – SAMPLING MATERIALS
06/18	 □ CTM 201 – SAMPLE PREPARATION
06/18	 □ CTM 202 – SIEVE ANALYSIS
06/18	 CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
06/18	 CTM 217 – SAND EQUIVALENT
06/18	 CTM 226 – MOISTURE CONTENT
06/18	 CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
06/18	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
06/18	 □ CTM 308 – BULK S.G. OF HMA BRIQUETTES
06/18	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
06/18	 ☑ CTM 366 – STABILOMETER
06/18	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
06/18	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
06/18	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
06/18	 CTM 382 – PERCENT ASPHALT
06/18	 ☐ CTM -227 -CV
06/18	 ☐ CTM -206,207,208,211,
06/18	 ☐ CTM -234,235,371,384
	 CTM xxx – XXXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXXX
	CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	CTM vvv VYYYYYYYYYYYYY

### **FERNANDO RIVERA**

District 03 Materials Engineer

Jache Treat

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.

# TL -0115 (07/2012) 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 Partilcle D4791 Flat and Elongated Proficiency Certificate is only valid on Caltrans Superpave projects and are issued specific to Caltrans Superpave Specifications. 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

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# Presents this CERTIFICATE OF PROFICIENCY to

# **JAMES BREWSTER**

of

### **TEICHERT**

who is qualified to perform the following tests:

Expiration Date

Test Method

02/16		X CTM 105 – CALCULATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
02/16		CTM 125 – SAMPLING MATERIALS
		CTM 201 – SAMPLE PREPARATION
		☐ CTM 202 – SIEVE ANALYSIS
		CTM 205 – % CRUSHED PARTICLES
		CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
		CTM 217 – SAND EQUIVALENT
		CTM 226 – MOISTURE CONTENT
		☐ CTM -227 -CV
		CTM 229 – DURABILITY
		CTM 231 – RELATIVE COMPACTION (NUCLEAR)
		CTM 304 – HMA PREPERATION FOR TESTING
		CTM 308 – BULK S.G. OF HMA BRIQUETTES
		CTM 309 – RICE S.G. & DENSITY OF HMA
		CTM 366 – STABILOMETER
		CTM 370 – HMA MOISTURE (MICROWAVE)
		CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		CTM 379 – PERCENT ASPHALT (NUCLEAR)
		CTM 382 – PERCENT ASPHALT
		CTM -204,206
		CTM -204,200
		CTM -212,213,214,
		☐ CTM -212,213,214,
		CTM xxx – XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
		CTM xxx - XXXXXXXXXXXXXXX
		$\Box \text{CTM xxx} - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
	•••••	$ \Box \text{CTM } xxx - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
		$\square$ CTM xxx – XXXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXXX

### **KEVIN ESPINOZA**

District 03 Materials Engineer

Jache 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

Last revisea	!
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- 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:

	Level 1	Level 2	Level 3	Level 4
Construction Materials Testing:				
Soils	Х	х		
Asphalt	Х	Х		
Concrete	Х	Х		
Highway Materials	Х	Х		

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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 ☐ CTM 125 – SAMPLING MATERIALS
03/17	 ☐ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
05/17	 □ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
03/17	 ☐ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 ☑ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ☐ CTM -204,206,207,208,211,
03/17	 ☑ CTM -214,234,235,371,384
05/17	 ☑ CTM -301 R-VALUE
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	$\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	 $\Box$ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX

### **GIRMAY BEYENE**

District 03 Materials Engineer

Jache 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
- 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 211Abrasion 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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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

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# 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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 □ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 □ CTM 366 – STABILOMETER
03/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 CTM -371- MOISTURE SENSITIVITY
03/17	 ☐ CTM -206,207,208,211,
03/17	 ◯ CTM -234,235,204,214,384
05/17	 ☐ CTM xxx – XXXXXXXXXXXXXXXXXX
	$\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX

### **GIRMAY BEYENE**

District 03 Materials Engineer

Jache 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 211Abrasion 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

# TL -0115 (07/2012) 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 304 Uncompacted Void Content, Fine T 27 Sieve Analysis, Fine & Coarse Agg. T 308 Binder Content, Ignition, Method A R30 Mixture Conditioning of HMA T 312 Superpave Gyratory Compactor T 324 Hamburg Wheel-Track Testing T 84 Bulk SpG (SSD) of Fine Aggr. T 85 Bulk SpG (Oven Dry), Coarse Agg. T248 Reducing Sample of Agg T 96 LA Rattler T 335 Fractures in Coarse Aggregate. T 176 Sand Equivalent D7741 Apparent Viscosity T 209 Theoretical Max. SpG (Method A) D 4791 Flat & Elongated Particles T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 283 Moisture-Induced Damage 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
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17		□ CTM 125 – SAMPLING MATERIALS
04/17		☑ CTM 201 – SAMPLE PREPARATION
04/17		☑ CTM 202 – SIEVE ANALYSIS
04/17		☑ CTM 205 – % CRUSHED PARTICLES
05/17		□ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cone
04/17		☑ CTM 217 – SAND EQUIVALENT
04/17		☑ CTM 226 – MOISTURE CONTENT
04/17		☑ CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17		□ CTM 304 – HMA PREPERATION FOR TESTING
04/17		☑ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17		☑ CTM 366 – STABILOMETER
04/17		☑ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17		CTM 382 – PERCENT ASPHALT
04/17		☐ CTM -227 -CV
04/17		☑ CTM -371-RESISTANCE TO MOISTURE
04/17		☑ CTM -206,207,208,211
04/17		☑ CTM -234,235
05/17		☑ CTM -204,214,301,384
		☐ CTM xxx – XXXXXXXXXXXXXXXX
		$\square$ CTM xxx – XXXXXXXXXXXXXXX
	•••••	CTM xxx – XXXXXXXXXXXXXXX
		CTM xxx – XXXXXXXXXXXXXX
		$\square$ CTM xxx – XXXXXXXXXXXXXXXX

## **GIRMAY BEYENE**

District 03 Materials Engineer

Jache Tret

**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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 □ CTM 125 – SAMPLING MATERIALS
04/17	 □ CTM 201 – SAMPLE PREPARATION
04/17	 □ CTM 202 – SIEVE ANALYSIS
04/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS) no sand cones
04/17	 ☑ CTM 217 – SAND EQUIVALENT
04/17	 ☑ CTM 226 – MOISTURE CONTENT
04/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 □ CTM 366 – STABILOMETER
04/17	 □ CTM 370 – HMA MOISTURE (MICROWAVE)
	 ☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 □ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ☐ CTM -227 -CV
04/17	 ☐ CTM -206,207,211,212,214
04/17	 ☐ CTM -384-
	 CTM xxx – XXXXXXXXXXXXXXX
	 CTM xxx – XXXXXXXXXXXXXXX
	CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXX
	$\square$ CTM vvv $_$ XXXXXXXXXXXXXXXXXX

#### **GIRMAY BEYENE**

District 03 Materials Engineer

Jacke 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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	x CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
04/17	 ☐ CTM 125 – SAMPLING MATERIALS
04/17	 ☐ CTM 201 – SAMPLE PREPARATION
04/17	 ☐ CTM 202 – SIEVE ANALYSIS
04/17	 ☐ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
04/17	 ☐ CTM 217 – SAND EQUIVALENT
04/17	 ☐ CTM 226 – MOISTURE CONTENT
04/17	 ☐ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
04/17	 ☐ CTM 304 – HMA PREPERATION FOR TESTING
04/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
04/17	 ☐ CTM 309 – RICE S.G. & DENSITY OF HMA
04/17	 ☐ CTM 366 – STABILOMETER
04/17	 ☐ CTM 370 – HMA MOISTURE (MICROWAVE)
	 CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
04/17	 ☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
04/17	 CTM 382 – PERCENT ASPHALT
04/17	 ◯ CTM -227 -CV
04/17	 ◯ CTM -206, 207,211,234,235,
04/17	 ◯ CTM -371,384
05/17	 ☐ CTM 204,214
	 CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXXXX
	$\square$ CTM vvv $_$ XXXXXXXXXXXXXXXXXXX

# **GIRMAY BEYENE**

District 03 Materials Engineer

Vadue Treat

Jackie Treat Certifi

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.

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## 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

# TL -0115 (07/2012) 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-um, Wash T 269 % Air Voids T 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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 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. **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	X CTM 105 – CALCULATIONS
	 ☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
03/17	 □ CTM 125 – SAMPLING MATERIALS
03/17	 □ CTM 201 – SAMPLE PREPARATION
03/17	 ☑ CTM 202 – SIEVE ANALYSIS
03/17	 ☑ CTM 205 – % CRUSHED PARTICLES
	 ☐ CTM 216 – RELATIVE COMPACTION (SOILS)
03/17	 ☑ CTM 217 – SAND EQUIVALENT
03/17	 ☑ CTM 226 – MOISTURE CONTENT
03/17	 ☑ CTM 229 – DURABILITY
	 ☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
03/17	 □ CTM 304 – HMA PREPERATION FOR TESTING
03/17	 ☐ CTM 308 – BULK S.G. OF HMA BRIQUETTES
03/17	 ☑ CTM 309 – RICE S.G. & DENSITY OF HMA
03/17	 ☑ CTM 366 – STABILOMETER
03/17	 ☑ CTM 370 – HMA MOISTURE (MICROWAVE)
03/17	 □ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
03/17	 ☑ CTM 379 – PERCENT ASPHALT (NUCLEAR)
03/17	 CTM 382 – PERCENT ASPHALT
03/17	 ◯ CTM -227 -CV
03/17	 ◯ CTM -204,206,207,208,211,
03/17	 ◯ CTM -214,234,235,371,384
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	 ☐ CTM xxx – XXXXXXXXXXXXXXX
	☐ CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXX
	 $\square$ CTM xxx – XXXXXXXXXXXXXXXX

#### **GIRMAY BEYENE**

District 03 Materials Engineer

Vadue 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: 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

Last revised	'
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# 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

# TL -0115 (07/2012) 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 275 Bulk SpG, Compacted HMA, Paraffin T 27 Sieve Analysis, Fine & Coarse Agg. 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. Sadue 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

		CIW 103 – CALCOLATIONS
		☐ CTM 106 – DEF. OF TERMS SPECIFIC GRAVITY
05/17		☑ CTM 125 – SAMPLING MATERIALS
05/17		□ CTM 201 – SAMPLE PREPARATION
05/17		☑ CTM 202 – SIEVE ANALYSIS
05/17		☑ CTM 205 – % CRUSHED PARTICLES
		☐ CTM 216 – RELATIVE COMPACTION (SOILS)no sand cone
05/17		☐ CTM 217 – SAND EQUIVALENT
05/17		CTM 226 – MOISTURE CONTENT
05/17		☑ CTM -227 -CV
05/17		CTM 229 – DURABILITY
		☐ CTM 231 – RELATIVE COMPACTION (NUCLEAR)
05/17		☐ CTM 304 – HMA PREPERATION FOR TESTING
05/17		CTM 308 – BULK S.G. OF HMA BRIQUETTES
05/17		☐ CTM 309 – RICE S.G. & DENSITY OF HMA
		☐ CTM 366 – STABILOMETER
		☐ CTM 370 – HMA MOISTURE (MICROWAVE)
		☐ CTM 375 – HMA COMPACTION (NUCLEAR GAGE)
		☐ CTM 379 – PERCENT ASPHALT (NUCLEAR)
05/17		CTM 382 – PERCENT ASPHALT
		☐ CTM -204,206
		☐ CTM -207,211
		☐ CTM -212,213,214,
		☐ CTM -234,235,371
		$\square$ CTM xxx – XXXXXXXXXXXXXXXX
		☐ CTM xxx – XXXXXXXXXXXXXXXX
		$\square$ CTM xxx – XXXXXXXXXXXXXXXX
	•••••	$\square$ CTM xxx – XXXXXXXXXXXXXXX
		$\Box \text{ CTM } xxx - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX$
		$\Box$ CTM vvv $=$ XXXXXXXXXXXXXXXXXX

## **KEVIN ESPINOZA**

District 03 Materials Engineer

Jache 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		Expiratio	n date:	3/20/2	017
		Inspected by:		Jackie Treat	
		IA No.:	-	#107	
		Phone:		530-741	L-4131
		File: Mat	erials Cate		
aharatan.	Toichart Incorporated Parking Laboratory ID#22				
aboratory: ddress:	Teichert Incorporated-Perkins Laboratory-ID#32 8609 Jackson Road, Building #101				
ity:	Sacramento	State:	CA	Zip:	95826
ab QC Mgr.:	Trenton Crouse	e-mail:		@teichert.c	
elephone:	(916) 386-6974	Fax #.:	(916) 38		<u>OIII</u>
ACPHOLIC:	(510) 500 6577	. αλ π	(310) 30	JU U-JJ	
A certified Indepe	endent Assurance (IA) visited this laboratory on	_ 3/1	6/2016		
nly the equipment to	o be used on Caltrans construction projects and/or loc	al construction pr	ojects on t	the	
e National Highway	System was checked for qualification.				
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dicated below. Testi f Profiency Form TL-	ing personnel shall be Caltrans Qualified and possess a				S
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IA Inspector

Jache Treat

# **CALTRANS QUALIFIED LABORATORY INSPECTION REPORT**

Laboratory: Teichert Incorporated-Perkins Laboratory-ID#32  Address: 8609 Jackson Road, Building #101  City: Sacramento  Lab QC Mgr.: Trenton Crouse  Telephone: (916) 386-6974  A certified Independent Assurance (IA) visited this laboratory on  Only the equipment to be used on Caltrans construction projects and/or local co the National Highway System was checked for qualification.  At the time of Caltrans Qualification, this laboratory had all necessary equip indicated below. Testing personnel shall be Caltrans Qualified and possess a curr of Profiency Form TL-0111 prior to performing any sampling or testing.  AASHTO R18,R30,R35, R47, R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30  T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791  X A written in-house Safety Program  X Verification that the laboratory participates in Caltrans X Laboratory Procedures Manual X Laboratory Quality Control Manual	Inspected IA No.: Phone: File: Mat	d by: erials Cate	Jackie Tr #107 530-741 gory 500	
Address:  City: Sacramento Trenton Crouse  Telephone:  (916) 386-6974  A certified Independent Assurance (IA) visited this laboratory on Only the equipment to be used on Caltrans construction projects and/or local co the National Highway System was checked for qualification.  At the time of Caltrans Qualification, this laboratory had all necessary equip indicated below. Testing personnel shall be Caltrans Qualified and possess a curr of Profiency Form TL-0111 prior to performing any sampling or testing.  AASHTO R18,R30,R35, R47,R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30 T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791  A visual check was performed and documents provided as necessary for the follow  X A written in-house Safety Program  X Verification that the laboratory participates in Caltrans X Laboratory Procedures Manual	Phone: File: Mat	erials Cate	530-741	-4131
Address:  Before Jackson Road, Building #101  City:  Sacramento  Trenton Crouse  (916) 386-6974  A certified Independent Assurance (IA) visited this laboratory on  Only the equipment to be used on Caltrans construction projects and/or local conthe National Highway System was checked for qualification.  At the time of Caltrans Qualification, this laboratory had all necessary equips indicated below. Testing personnel shall be Caltrans Qualified and possess a current of Profiency Form TL-0111 prior to performing any sampling or testing.  AASHTO R18,R30,R35, R47,R58, T2, T11 T19,T21,T27, T30, T37,T39,  T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30  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 the control of the control	File: Mat	erials Cate		-4131
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Address:  Before Jackson Road, Building #101  City:  Sacramento  Trenton Crouse  (916) 386-6974  A certified Independent Assurance (IA) visited this laboratory on  Only the equipment to be used on Caltrans construction projects and/or local conthe National Highway System was checked for qualification.  At the time of Caltrans Qualification, this laboratory had all necessary equiphindicated below. Testing personnel shall be Caltrans Qualified and possess a currof Profiency Form TL-0111 prior to performing any sampling or testing.  AASHTO R18,R30,R35, R47,R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30  T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791  A visual check was performed and documents provided as necessary for the folion of the control of th	State:			
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City: Sacramento Trenton Crouse Felephone: (916) 386-6974  A certified Independent Assurance (IA) visited this laboratory on Only the equipment to be used on Caltrans construction projects and/or local conthe National Highway System was checked for qualification.  At the time of Caltrans Qualification, this laboratory had all necessary equipendicated below. Testing personnel shall be Caltrans Qualified and possess a curroff Profiency Form TL-0111 prior to performing any sampling or testing.  AASHTO R18,R30,R35, R47,R58, T2, T11 T19,T21,T27, T30, T37,T39, T176,T209,T210, T248, T246,T247, T255, T269, T275, T283, T287, T30, T335, SOIL T88,T89,T90,T100,T146,T190,T265, ASTM-D2950, D4791  A visual check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documents provided as necessary for the folional check was performed and documen	State:			
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X Laboratory Procedures Manual				
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Y Laboratory Quality Control Manual				
Laboratory Quality Control Mandai				
X Proper Test equipment				
X Copies of current applicable test procedures				
X Calibration and service documentation				
X Calibration stickers affixed to test equipment (dated w	hin the 12 r	nonths)		
X Personnel certification/qualification/training documen	ation			
X Nuclear gauge license				
	2011			

IA Inspector

Jache Treat

About Us

**AASHTO Accreditation** 

**Laboratory Assessments** 

**Proficiency Samples** 

Library FWD

Resources

50 Years

# Teichert Quality Assurance

#### Sacramento, California

Show This Entry Only

Jon Blumer

8609 Jackson Road

Bldg. 101

Sacramento, California 95826

Phone: (916) 386-6974

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, T90, 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.



Blairs Lane Bridge Replacement



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

Project Title

D. J 144 - J. T			Contract No.	40	604	M&H	Job#	39	26
Submitted To:	Carl Sloan	Location	Placerville, CA						
Address:	549 Main Street			1st	_ 2nd	3rc	l c	other _	_
	Placerville, CA 95667		Sub/Vender		Tei	ichert l	Materia	ıls	
Attention:	Carl Sloan		Contact		Don Bates				
Phone:	916-218-8432		Telephone	916-825-5070 Sub/Ven Subm			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			Х				
RR- Revise & Resubmit	Owner to Consultant	12/00/10							
R- Rejected	Consultant to Owner								
AR- Acknowledge Receipt	Owner to Contractor								
RWR- Return W/o Review	Contractor to Subcontractor								
A AAN RR R A				Descript	tion				
70 170 170 170 170	Caltrans Section 39	1/2	2" 64-10 Hot Mix A			erm M	1 Addi	tive	



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 Kowik/me

Mike Kocunik Quality Assurance Supervisor

# TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

3/2/2016

Type:

1/2" Max. Med. Type A w/15% RAP

Plant:

Perkins GenCor

,, ...

w/ 0.3% Evotherm M1 Warm Mix

Agg Source:S.M.A.R.A. # 91-34-0037

-0037 Performed by:

Mike Kocunik

Asphalt: PG64-10

Reviewed by:

Eric Gifford

# AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	18	41	11	15	
50.0mm	100	100	100	100	100	100	100	
37.5mm	100	100	100	100	100	100	100	
25.0mm	100	100	100	100	100	100	100	
19.0mm	100	100	100	100	100	100	100	
12.5mm	90 - 100	96	71	100	100	100	100	
9.5mm	78 - 90	84	19	78	100	100	99	
4.75mm	53- 67	60	3	3	90	100	74	
2.36mm	35 - 45	40		1	55	88	52	
1.18mm		28			35	72	40	
600µm	16 - 24	20			25	46	31	
300µm		14			21	17	22	
150µm	-	9			15	4	15	
75µm	3.5 - 7.5	5.5			9.5	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 M³	C.T.M.308-A	2.441	N/A
RICE UNIT WEIGHT Kg M3	C.T.M. 309	2.543	N/A
STABILOMETER VALUE	C.T.M.366	38	37 min
Dust Proportion	LP-4	1.2	0.6 - 1.2
VMA	LP-2	14.2	14.0 min
VFA	LP-3	73	65 - 75
FAA	AASHTO T304	46	45 min
TSR	C.T.M. 371		N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall be	4.8% by dry weight

# AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

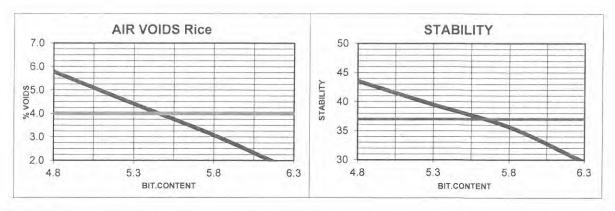
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	CTM 211	4	N/A	12%
500 Rev	s. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
K Factor's	CTM 303	N/A	N/A	1.7 Max
Specific Gravity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

STABILOMETER (C.T.M. 366)

			111010	(Willes I love) A	(0.1.11.000)			
	SPECIMEN	A	В	С	D		2) Optimu	m
	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					1		
1	1000							
	2000							
1	3000							
1	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	44	39	36	30	38	37	38

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

12-0-			IDO DE L		1011 ( 5.1.111. 001	/		
	SPECIMEN	Α	В	С	D	(	2 Optimu	m
	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								5.
4	Max Asphalt Content with	4 or mo	re % Void	S		3	5.5	OBC*
3	MEETING MIN. STAB.	(ENTER UP TO TWO)			4.8	5.3		
2	NONFLUSHING SPECIM	(ENTER UP TO THREE) 4.8			4.8	5.3	5.8	
1	DESIGN SET			4.8	5.3	5.8	6.3	
* OPTIM	IUM BITUMEN CONTENT	=	5.5					-
RECOM	MENDED RANGE=	5.2		5.5				



# Section 1. Identification

GHS product identifier

: EVOTHERM® M1

Climnical 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 29406-3615

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

(F) (E)

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 None known. result in classification

# 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 EC number

: Not available

: 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 furnes 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. Clear shoes thoroughly before reuse.

# Section 4. First-aid measures

### latgestion

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 not 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 light 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 imitation.

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 1 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)



5

# Section 5. Fire-fighting measures

## Lytinguishing metily

Suitable extinouishing

Unclear exting a some agent smile for the surrounding are.

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. The 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

# 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 sale

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 prothing and protective equipment before entering eating areas. See also Sention 5 for additional information on hygiene measures.

Conditions for sale storant, including any moonipatibilities

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.

procedures

Recommended monitoring : 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

Eve 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 googles. 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 manufactures 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

<u>Appearance</u>

Physical state : Liquid.

Colour : Amber, [Dark] Odour : Amine-like. Not available.

Odour threshold Ha

: 10 to 12 [Conc. (% w/w): 15%]

Melting point : <25°C (<77°F)

: >200°C (>392°F) Boiling point

: Closed cup: >204.4°C (>399.9°F) [Pensky-Martens] Flash point

Evaporation rate : Not available. : Not applicable. Flaminability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

: <1.0 x 10 1 mmHg @25 °C Vapour pressure

: Not available. Vapour density : 0.97 [Water = 1] Relative density

Partially soluble in the following materials: cold water and hot water. Solubility Easily dispersible in the following materials: cold water and hot water. Dispersibility properties

Partition coefficient: n-

octanol/water

: Not available.

: Not available. Auto-ignition temperature : Not available. Decomposition temperature : Not available. SADT : Not available. Viscosity : Not available. Other

# Section 10. Stability and reactivity

RODESIVIEW

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 a Causes serious eye damage.

system. Exposure to decomposition products may cause a realin trazard. Sendo.

effects may be delayed following exposure.

Skin contact : Causes skin irritation

ingestion May cause burns to mouth, invost and stomach.

# Symptoms related to the physical, chemical and toxicological characteristics

Eve 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

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

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.

Fortility effects : No known significant effects or critical hazards.

#### Numerical measures of toxicity

## Acute toxicity estimates

Not available.

# Section 12. Ecological information

#### Loxicity

ProducVingredient mame	Result	Species	Exposure
Fritty amine derivatives	LC50 0.43 mg/l	Fish	96 hours
	NOEC 0.32 mg/l	Fish	96 hours

### Persistence/degradability

riot available.

Test	Result		Dose		inoculum	
OECD 301D 301D Ready Biodegradability Closed Bottle Test	36 % - 28 days				Activated sludge	
Aquatic half-life		Photolysis		Biodegradability		
-	in the second se		Not re		adily	
	OECD 301D 301D Ready Biodegradability Closed Bottle Test	OECD 301D 36 % 28 301D Ready Biodegradability - Closed Bottle	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	OECD 301D 36 % 28 days 301D Ready Biodegradability Closed Bottle Test	

## Bioaccumulative potential

Not available.

### Mobility in soil

Soil/water partition coefficient (Koc)

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 nonrecyclable products via a licensed waste disposal contractor. Waste should not ca 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 spilt 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, it o.s. (Fatty amine derivatives)	Environmentally hazardous substance, liquid no so (Fatty amine denvatives). Marine pollutant (Fatty amine denvatives)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	111	III	111
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 nformation	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Special provisions 274, 331, 335	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg  Emergency schedules (EmS) F-A, S-F  Special provisions 274, 335	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only 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.  Limited quantity Yes.

	Limited Quantities  - Passenger Airstaft Quantity limitation: 30 kg Packaging instructions: Y954  Special provisions A97-A158	Special provisions 8, 146, 173 335 183, 74, 1P1 1P29
--	-------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------

### 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 : Not applicable.

Law

Fire Service Law

: Class 4: Type 4 petroleum

Designated quantity

Designated quantity

Designated quantity

: Not available.

: Not available

: Not available.

Fire Service Law

: Not available.

Substance to report

: Not applicable.

Fire Service Law -Obstructive materials : Not listed

Characteristics Danger class

: Not available.

: Not available.

Poisonous and Deleterious Substances

Use of specified chemical

: Not available.

substances

ISHL

: Not available.

Organic solvents poisoning prevention : Not available.

Lead regulation

: Not applicable.

Version:

Validated on 10/18/2013.

## Section 15. Regulatory information

Occupational diseases

: Not available.

Law Concerning

- Marine pollutant: P

Prevention of Pollution of the Ocean and Maritime

Disaster

Notification Regulating

: Not available.

Transportation of

Dangerous Materials by

Sea

Givil Aeronautics Law

: Not available.

Pollutant Release and

: Not listed

Transfer Registers (PRTR)

Road law

: Not applicable.

JSOH Carcinogen ISHL Prevention of : Not listed

Tetraalkyl Lead Poisoning

: Not listed

ISHL Harmful Substances

: Not listed

Subject to Obtaining Permission for Manufacturing

ISHL Harmful Substances,

: Not listed

Prohibited for Manufacturing

ISHL Chemicals requiring

: Not listed

notification

ISHL Dangerous

: Not listed

Substances

List of Specially

. Not listed

Controlled Industrial Waste

#### Chemical Substances Control Law (CSCL)

Not available.

Biodegradability

: Not available.

Concentration of

· Not available.

chemicals accumulated in

fish

Japan inventory

: This material is listed or exempted.

Other regulations

: Not available.

Safety, health and unvironmental 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

: This material is not listed.

chemicals

## Section 15, Regulatory information

TCCA Article 32

(Banned)

This material is not listed

TCCA Article 32

(Restricted)

This material is not listed.

TGCA 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 Cantage of Dangerous Goods
by Rall
UN = United Mations

#### Turerances

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 abovenamed 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.





Blairs Lane Bridge Replacement



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

Project Title

								Contract No.	40	604	М&Н	Job#	39	26
Sub	mitte	d To	:		Carl Sloan			Location		Р	lacerv	lle, CA	ı	
Add	ress:				549 Main Street				1st	_ 2nd	_ 3rd	c	other _	
					Placerville, CA 95667			Sub/Vender		Tei	chert I	Materia	ls	
Atte	ntion	:			Carl Sloan			Contact			Don E	Bates		
Pho	ne:				916-218-8432			Telephone	916-82	25-5070		Sub/Ven Subm'l#		3
	ACTIO	ON T	AKEN	١	M&H SUBMITTAL	Date S	Sent	Date Rec'd	Sepia	Print	Lit	Test	Samp'l	Other
4- Ар	proved				Subcontractor to Contractor									
۹AN-	Approv	ed as	Noted		Contractor to Owner	07/27	7/16			Х				
RR- Revise & Resubmit Owner to Consultant														
R- Re	jected		Consultant to Owner											
		ledge F	Receipt		Owner to Contractor									
	Return	•			Contractor to Subcontractor									
	AAN		R	AR	Specification No.	1		l.	Descript	ion				
					Caltrans Section 39			1/2" 64	2" 64-10 Hot Mix Asphalt					
		With			erial transmitted herein is in c ptions Except for				cations:					
COI	IIIICI	ilo.												
									an	rie G	fare	ria		
										e and He				
Rev	iew (	Comr	nent	s:										
	С	ity o	of Ci	trus	Heights Submittal N	lo. <u>59</u>								
		Re	ceive	d and	l Filed									

City of Citrus Heights

Submittal No. 59

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

Signature:
Date: 8-3-16

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

Cell: (916) 826-3243 Fax: (916) 685-8701 jdougherty@ppcla.com

## TEICHERT QUALITY ASSURANCE **HVEEM MIX DESIGN**

Date:

1/6/2016

Type: 1/2" Maximum Medium "A"

Plant: Perkins Batch Plant

w/15% RAP

Agg Source:S.M.A.R.A. # 91-34-0045 Asphalt: PG 64-10

Performed by:

Mike Kocunik

Reviewed by:

Eric Gifford

#### AGGREGATE BLEND

	Operating	Bin	3	2	1	BHD	RAP	
	Operating	Size		-	-	DITID	1011	
% Used	Range	100	11	26.5	47	0.5	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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	1 1	0.6 - 1.3
VMA	LP-2	14.1		14.0 min
VFA	LP-3	72	1 1	65 - 75
FAA	AASHTO T304	46		45 min
TSR	C.T.M. 371	-	1 1	N/A
REMARKS: * Virgin oil to be	e added to the aggreg	ate shall	be 4.8% t	ov dry weight

of aggregate. The remaining 0.7% oil is contained in the 15% RAP, totaling 5.5% DWA.

#### AGGREGATE PROPERTIES (CALTRANS TEST METHODS)

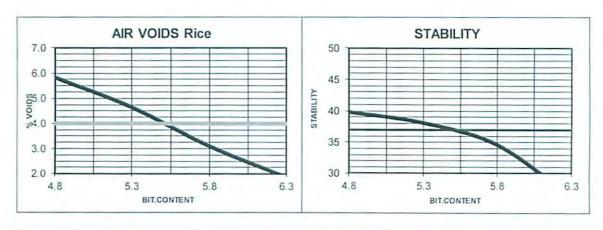
	Test #	Coarse Aggregate	Fine Aggregate	Specifications
L.A.Rattler 100 Revs.	. CTM 211	4	N/A	12%
500 Rev	vs. CTM 211	19	N/A	45%
Crushed Particles %	CTM 205	99.5	99.0	90%/70%
Crushed Particles %	2 Faces	91.6	N/A	75%
Sand Equivalent	CTM 217	N/A	77	47 min
Flat & Elongated (3:1)	ASTM D 4791	5.7		
(5:1)		3.2		
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	А	В	С	D	0	Optimur	n
BIT. RATIO	4.8	5.3	5.8	6.3	5.5	5.5	5.5
HEIGHT MM.		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			
TURNS 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)

		AIR VU	DO DE II	-KIVIIIVA I	ION C.I.	IVI. 307			
	SPECIMEN	Α	В	С	D		0	@ 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	Max Asphalt Content wi	Max Asphalt Content with 4 or more % Voids						
3	MEETING MIN. STAB.		(ENTER UP TO TWO)				4.8	5.3
2	NONFLUSHING SPECI	MENS	(ENTER	R UP TO	THREE)	4.8	5.3	5.8
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIM	MUM BITUMEN CONTENT	Γ=	5.5					
RECOM	RECOMMENDED RANGE= 5.2			5.5				

## TEICHERT QUALITY ASSURANCE HVEEM MIX DESIGN

Date:

1/6/2016

Type:

1/2" Maximum Medium Type "A"

Plant: Perkins (Drum) Agg Source:S.M.A.R.A. #

91-34-0045

Performed by:

w/15% RAP

Mike Kocunik

Asphalt: PG 64-10

Reviewed by:

Eric Gifford

#### AGGREGATE BLEND

	Operating	Bin					RAP	
		Size	1/2"	3/8"	Dust	Sand		
% Used	Range	100	15	15	44	11	15	
2"	100	100	100	100	100	100	100	
11/2"	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 M³, PCF	C.T.M.308-A	2.451	152.6	N/A
RICE UNIT WEIGHT Kg M3, 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 b	e added to the aggred	ate chall	ho 1 8%	ov dry weight

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 Rev	s. CTM 211	4	N/A	12%
500 Re	evs. 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)	<b>ASTM D4791</b>	3.2		
Specific Gravity	CTM 206/208	169.9	166.3	N/A
COMBINED SP.GR.=	168.0			6.00

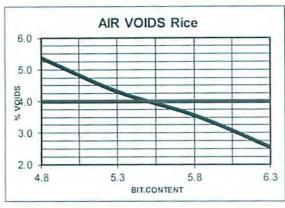
1/2" Max. Medium Type "A", Perkins Drum Plant

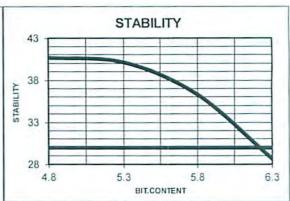
CTARIL	OMETER	(CTM	366
SIADIL	CIVILILIX	( U. I.III.	000

		D		D		@ Optimur	m
SPECIMEN	Α	В	C		F		
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			
TURNS 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)

		All VO	IDO DE I	- I CIAMILAN	11014 ( 0.1.141. 00	' /		
	SPECIMEN	Α	В	С	D	(	Optimu	m
	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	Max Asphalt Content w	ith 4 or m	ore % Voi	ds			5.5	OBC*
3	MEETING MIN. STAB.		(ENTE	R UP TO	TWO)		4.8	5.3
2	NONFLUSHING SPEC	IMENS	(ENTER UP TO THREE)			4.8	5.3	5.8
1	DESIGN SET				4.8	5.3	5.8	6.3
* OPTIN	NUM BITUMEN CONTEN	T=	5.5					
RECOM	MENDED RANGE=	5.2		5.5				

CITY OF I	PLACERVILL	.E					Sheet	1	of 1
CONTR	ACT CH	ANGE ORDER	_		Change Requested by:	٥	City		Contractor
CCO No.	Suppl. No.	Contract No.	Project				ederal Proje	ct Nun	nher:
15	0	40604	-	lairs Lane B	ridge Replacement	1	BRLO-		
то: Мс	Guire & F	Hester, Inc.							
-			from the plans ar	nd specification	s or do the following described	work not	included in th	e plans	and
s pe cificatio	ns for this con	tract. NOTE: This ch	ange order must	be approved	by the City Council:	$\boxtimes$	Yes	No	
Description	of work to be	done, estimate of quant	ities and prices to b	pe paid. (Segre	gate between additional work at co	ontract p	rice, agreed prid	ce and f	orce
account.)									
		ion 4-1.05, "Change ield direction in the			pecial Provisions, install add on driveways.	litional	Drainage In	lets per	r FCD 18,
Extra Wor	k at Force A	Account:							
DEWR 28-1	32.0						9	\$135.30	6
Total CCO	#15 Amoun	t:		••••••		••••••	\$9	,520.3	8
			Es	timated Cost:	omplete compensation for th	eas e	\$9,5	20.38	
		he time of completion	will be adjusted as	s follows:	No additional worki	ng day	/S		
Submitte SIGNATU				PRINT NAME 8	k TITLE)		DA	ΓE	
			,		ves P.E., City Engineer				
Approved					•				
SIGNATUI	RE			PRINT NAME 8			DA	ſΕ	
Approved	1			leve Morris	, City Manager				
SIGNATU			(F	PRINT NAME 8	k TITLE)		DAT	ΓE	
			,						
furnish the payment th requiremen	materials, exceenees	ept as may otherwise bes shown above. NOT cification as to proce	be noted above, a E: If you, the con	nd perform all s stractor, do no	nd agree, if this proposal is app services necessary for the work t sign acceptance of this orde nd filing a written protest with	above s	pecified, and vattention is d	will acce irected	ept as full to the
SIGNATUI			(1	PRINT NAME 8	k TITLE)		DA	ΓE	



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

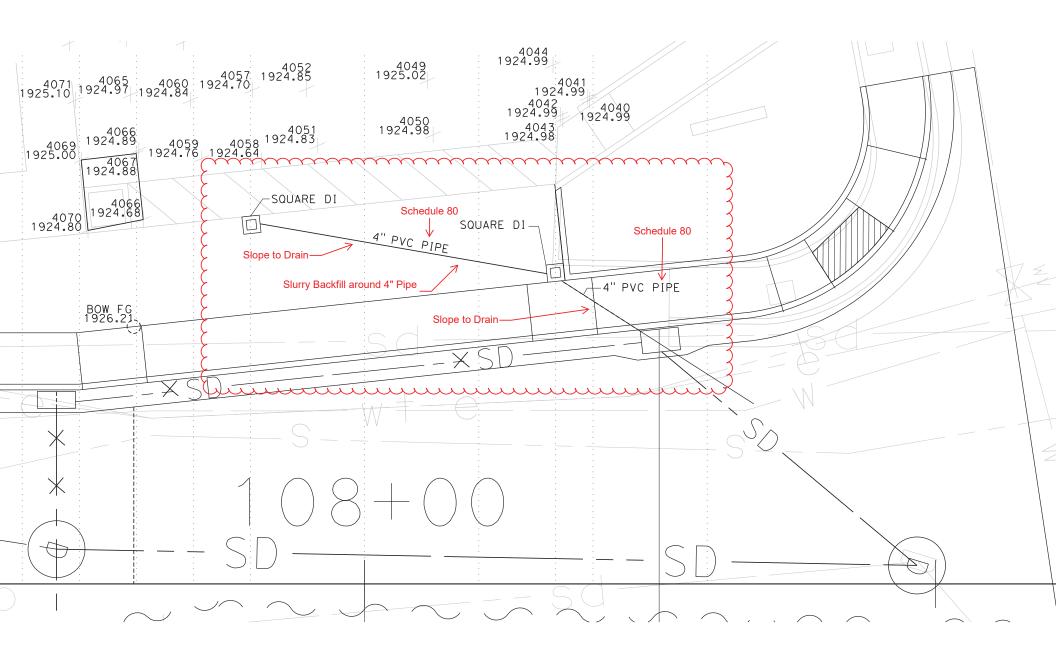
involving change to the contract price or contract requirements must be covered by a formal Contract Change Order executed

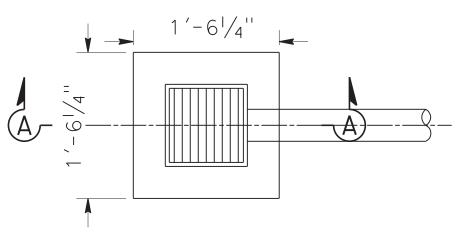
by the City and the Contractor. CITY REPRESENTATIVE:

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

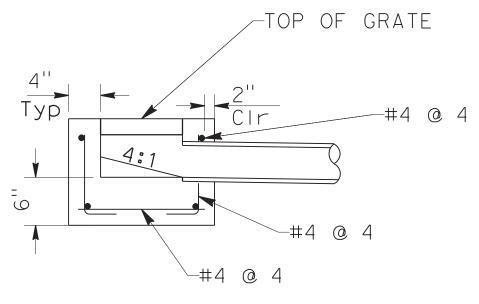
Sh

TITLE: Resident Engineer





SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE



McGuire and Hester

1016 N. Market Blvd Sacramento, CA 95834

Phone: 916-372-8910

Fax: 916-372-8913

#### REQUEST FOR INFORMATION

Request No.: 033

**Title: Caltrans Driveway** Requested By: Arnie Garcia

Date: 12/07/2016

**City of Placerville** To: 3101 Center Street

Placerville, CA 95667

Project No.: M&H #3926

Placerville #40604

**Project: Blairs Lane Bridge Replacement** 

Attn: Carl Sloan (UNICO Engineering)

916-218-8432 Carl@unicoengineering.com

Spec. Section: Page No.:

Drawing No.: Sheet 6

Detail No.:

#### 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.

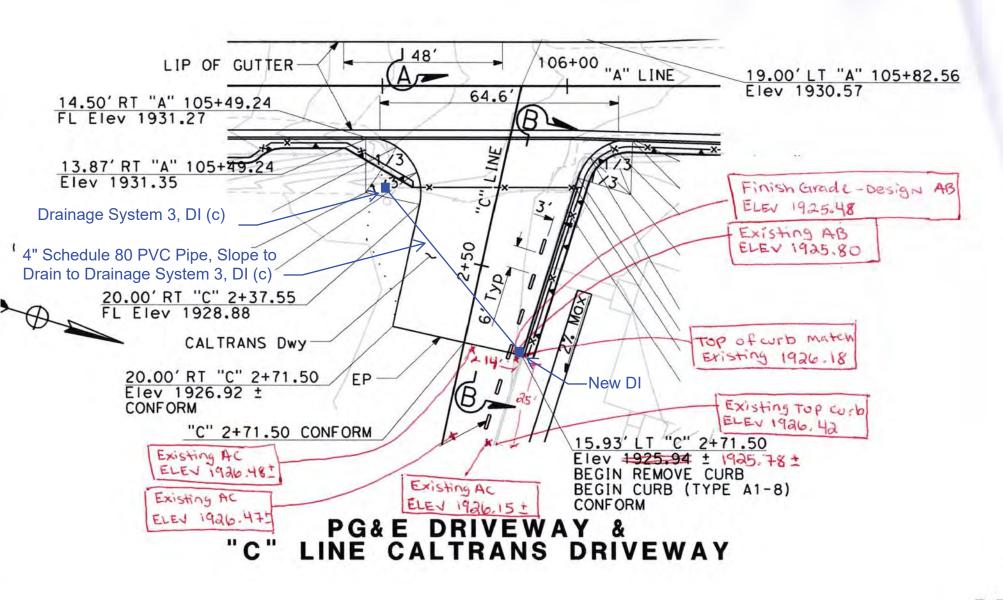
Reply Required by: 12/8/2016	By: Arnie Garcia
	Title: Project Engineer

#### Response:

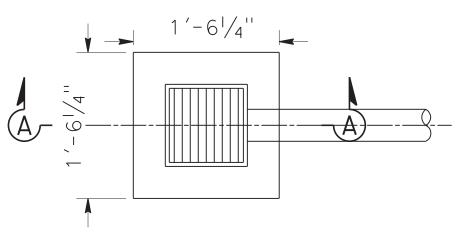
Install a Square DI, 10-1/4" x 10-1/4", or similar, with a Type B traffic rated grate at a location to be determined by the engineer in the field near the end of the curb conform at 15.93' LT "C" 2+71.50. Install approximately 65LF of 4" Schedule 80 PVC pipe from this location to Drainage System #3 - Drainage Inlet C, next to the Flag Pole.

See attached detail for the DI.

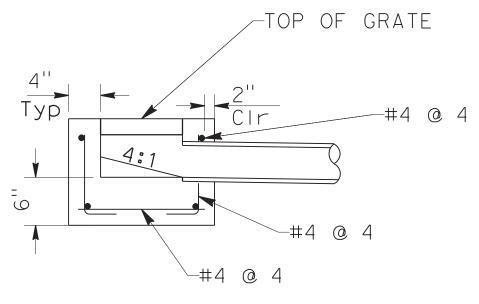
Date:	By:
cc:	Title:



DETA NO SC



SQUARE DI 10-1/4"×10-1/4" GRATE (TYPE B)



SECTION A-A

NO SCALE

#### **DAILY EXTRA WORK REPORT**

City Of Placervil	le							Change Ord		028
	926 - Placerville - Blairs Lane Bridge							Billing Numb		132.0
	cGuire and Hester							Report Date		12/06/2016
Description of Work: Va	alero Driveway Mod.							Perform Date	te	12/06/2016
Labor Charges								L	abor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor		80.87
L01 <b>4273</b>	R Krug	0.50		61.210			30.61	sc ·	12.00%	9.70
^{L02} 4948	H Meza	1.00		50.260			50.26	-		0.00
Equipment Char	ges							1		
Equipment ID	Description	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subtotal Lal	bor	90.57
E01 <b>02292</b>	Ford F-250 Utility Pickup	0.50		22.760			11.38	Subsistence	e	0.00
								Other Exper		0.00
									35.00%	
										31.70
								Labor Total		122.27
								Equ	uipment (	Charges
								Subtotal		11.38
								MU	15.00%	<u>1.71</u>
								Equipment 7	Total	13.09
								M	laterial C	harnes
										J
									ocontract	
									contract	
								Sub	contract	Charges
								Sub	ocontract	Charges 135.36
								Sub Activity Tota	ocontract	Charges 135.36
Machine 1	McGuire and Hester		Accepted:					Sub Activity Tota	al	Charges
MCUIRE	McGuire and Hester		Accepted: Customer:			Date:		Sub  Activity Tota	al	135.36

B-13a



# EXTRA WORK REPORT CONSTRUCTION COMPANY

		ſ	M&H JOB NO	:3926		
			EXTRA WOR	K ORDER NO:	98 98	30028
TO: CITY OF PLACEUTU	il		DATE OF RE	PORT: 12-6	-16	
PROJECT: BLATES LANK	BR		DATE PERFO	RMED: 12	6-16	
DESCRIPTION OF WORK: Exc	AVATE	<u>- I</u>	USTALL 4	DUCTEL	Ann	٥
BACKFILL @ VALER	o OI	- For	FUTUR	e Teen	CH D	RIAN)
SUMMARY OF LABOR AND EQU	IPMENT					
EMPL# EMPLOYEE NAME			RIPTION	TRADE		HOURS
	21992	<u>F-250</u>	PU	LABOR F	OREMAN	.5
4948 HUMBRETO MEZA				LABOR		
						-
`						
					:	
· ·						
SUMMARY OF MATERIAL & SPE	CIALTY	ORCES				
	<b>H</b> , 71,567 8. <b>. H</b> 1 <del>22</del>					
MATERIALS FOR	Fil	30 G	DG. YILMO	IAN TO	R6 1	Appril 1
MATRICIALS FOR	SEL	VAAT 6	A/HEA	DRAIN R	OX & for	RATE
4	Get	teni d	71101			· vu g Grand
		4 4 4 7 11	WC.			
		······································				·

McGuire & Hester Representative

#### **DAILY EXTRA WORK REPORT**

Minimum				ILI LAII	., . , , ,	<u> </u>	<u> </u>					
Mary											_	028
Part												
Cabbor Charges											1 '	
Macroproper Name	Description of Work: C	Caltrans & Vale	ero								Perform Date	12/12/2016
Machine   County	Labor Charges											
Companies   Comp		Employee	Name	RT Hrs	OT Hrs	Subs Units		OT Rate	Subs Rate		RT Labor	
Martial Special Section   1472271   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722716   14722		R Krug		6.00			61.210			367.26	SC 12.00%	206.71
1.00   4948	^{L02} 7359			6.00			75.100			450.60	OT Labor	0.00
Sequence   Sequence	L03 <b>1227</b>	JA Day II		6.00			50.260			301.56		
Column   Control   Column	L04 <b>6728</b>	E Ramire	Z	6.00			50.260			301.56	Subtotal Labor	1,929.25
Equipment Charges   Equipment (D   Debt)   Filt	L05 <b>4948</b>	H Meza		6.00			50.260			301.56	Subsistence	
Comparent Do   Description   Description   RT Hrs   OT Hrs   RT Rate   OT Rate   Delay Factor   Delay Factor   Standard   Standard	Equipment Cha	raes									1	
Columb   Ford F-250 Utility Pickup   6.00   22.760   136.56   Labor Total   2,004.48   Labor T		_	1	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended		
Material/Specialist Work/Lump Sum or Unit Price Payment   Number   Date   Vendor Name and Description   Unit 1900   397.15000   397.15   567.28   355.09   397.25   567.28   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   355.09   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25   397.25	E01 02292	Ford F-2	250 Utility Pickup	6.00			22.760			136.56		
Number   Date   Vendor Name and Description   Units   Unit Price   Extended   Surface   Surfac	E02 07049	Cat 420I	E Backhoe 08 w/CB & 4WD	8.00			53.840			430.72	Labor Total	2,004.40
Mulbrof   Date   Modor Name and Description   Dults   Unit Price   Extended   Section   Secti	Material/Specia			nt							Equipment	Charges
Mol   5119203   12/12/2016   Forguson Enterprises / Material Buy - Printings   1.000 LS   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,15000   387,150000   387,15000	-		-					Units	Unit Price	Extended	Subtotal	
MOZ 5122837   12/12/2016   Ferguson Enterprises / Material Buy - Frittings   1.000 LS   23.12000   23.12     MOS 90085   12/12/2016   Home Depot / Material Buy - Frittings   1.000 LS   249.41700   434.170     MOZ 500265561   12/12/2016   Home Depot / Material Buy - Frittings   1.000 LS   28.8100   29.81     MOZ 500079829   12/12/2016   Corix Water Products / Material Buy - Drain Box   1.000 LS   745.21000   745.21     MOZ 17613035112   12/12/2016   Corix Water Products / Material Buy - Drain Box   1.000 LS   745.21000   745.21     Mozeral Total   1,874.02     Subcontract Charges   McGuire and Hester   Accepted:   Customer:   Date:   Dat			•								<i>м</i> υ 15.00%	<u>85.09</u>
Mod   Source   12/12/2016   Syar Concrete LLC / Slurry Buy   1.000 LS   434.17000   434.17   1.000 LS   29.81000   29.81   1.000 LS   10.12000   10.12   10.12000   10.12   1.000 LS   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12   10.12000   10.12000   10.12   10.12000   10.12000   10.12   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.12000   10.		12/12/2016	Ferguson Enterprises / Material Buy - F	ittings					23.12000	23.12	Equipment Total	652.37
Mod   0000265561   12/12/2016   Home Depot / Material Buy - Concrete Mix   1.000 LS   29.81000   29.81   5.0000198329   12/12/2016   Home Depot / Material Buy - Drain Box   1.000 LS   10.1200   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.120   10.12	M03 90085								434.17000	434.17	Material C	harane
MoS   0,000198929   12/12/2016   Home Depot / Material Buy - Fittings   1,000 LS   10,12000   745,210   745,210   745,210   12/12/2016   Corix Water Products / Material Buy - Drain Box   1,000 LS   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   745,21000   7		12/12/2016	Home Depot / Material Buy - Concrete	Mix					29.81000	29.81		_
Mo6   17613035112   12/12/2016   Corix Water Products / Material Buy - Drain Box   1.000 LS   745.21000   745.21   Material Total   1,874.02			<u> </u>							10.12		
Material Total 1,8/4.02   Subcontract Charges				Orain Box							<i>MU</i> 15.00%	
Activity Total 5,130.87    Bill Subtotal 5,130.87	17010000112	,,	- Colin Francis Francisco Francisco Pay				•	.000 = -			Material Total	1,874.02
Bill Subtotal 5,130.87  McGuire and Hester  Accepted: Customer: Date:  Bill Total + 5,130.87											Subcontract	Charges
Bill Subtotal 5,130.87  McGuire and Hester  Accepted: Customer: Date:  Bill Total + 5,130.87												
Bill Subtotal 5,130.87  McGuire and Hester  Accepted: Customer: Date:  Bill Total + 5,130.87												
McGuire and Hester  Accepted: Customer: Date:  Bill Total + 5,130.87											Activity Total	5,130.87
McGuire and Hester  Accepted:  Customer:  Date:  Bill Total + 5,130.87												
McGuire and Hester  Accepted:  Customer:  Date:  Bill Total + 5,130.87												
MCGuire and rester  Customer:  Date:											Bill Subtotal	5,130.87
MCGUIRE HESTER  Customer:  Date:												
MCGuire and Rester  Customer:  Date:												
MCUIRE Date:		McGuire	and Hester		/	Accepted:					Bill Total 👃	5,130.87
		`				Customer:			Date:			,
	HESTER	Joh Contac	et: Hugo Gutierrez (916) 873-2690			Contractor:			Date:		Page 1	



# EXTRA WORK REPORT CONSTRUCTION COMPANY

				M&H JOB NO	). ZG2/		7
			:			NO: 9830	020
TO: ( =	- 0						UNX
	TY OF PLACERUTUS			DATE DEDE		<u> </u>	,
PROJEC		BR		DATE PERF		12-12-16	
DESCRI	PTION OF WORK: Th			RAEN In	WIS 1	AND RU	$\sim$
Fipe	Connective To			I's 2	@ VAI	kro	
'A-M		RANG					
SUMMA	RY OF LABOR AND EQ	UIPMENT					
EMPL#	EMPLOYEE NAME	EQ#	EQ DESC	RIPTION	TRADE		HOURS
4273	ROGER KRUG	02292	F-25	) PU	LABOR	Foremon	6
1359	CUETTES SMETH		*	•	Open	Asur	6
17.27	Jesse Day				LAGO	2	Ь
6728	Enje RAMANER				LAS		6
4948	Hungero MEZA				LAG	wa/	6
L		07049	420 E	BACKAGE			8
1							
							e e
SUMMA	RY OF MATERIAL & SP	ECIALTY	FORCES				
		A STATE OF THE STA					
-	-180 LF, SCH.	80	H" PED	6	Lan	MEDEROT-R	EPAIR
-	Zvens 65m		wo 5	1			MORNAL
<b>€</b> *7-	10 BAGS OF (	_		V			
<b>-</b> ,	2 BAGS GROUT	·		<del>y</del>			
	45° 372° Farit	Alle	(1 ×	KB)			
	3.4		N'S TRA		MILA	ENCETS	
1	AU XIAU C	av IVA	<u>~ &gt; 1 ~ ()</u>	TO THE	MV/		
<del>L</del>							
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	GEN KNUL R Hester Representative			$\Box$	Work AL	ンター   <u>チリンリ</u> uthorized by / D	)ate
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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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		tomer Sales Number Person		Job Name		Invoid Date	Batch	
610	610	CA09PL	3	926 679		BLAIRS LN		12/13/20	016	151996
Ordered	Shipped	Item	Number		Description			e UM	Ar	nount
160	160	P40BEPP	20	4X20 FT PVC	S40 BE PIPE		224.0	045 C		358.47

 Invoice Sub-Total
 358.47

 Tax
 28.68

 Total Amt
 387.15

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

## FERGUSON ENTERPRISES, INC. a WOLSELEY company

FEI PLACERVILLE #610 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003 B-133

IACCEPT BZO = Y SOURCE = SOE IB FRT = N 0.0 OB SHP = M0.1 10 NEC 2016 11-26-7 WRITER

DRDER NO.	530-522-3281 REQUIRED DATE	FAX: 530 SHIP WHS.	-622-249] <b>SELL WHS.</b>	

STOCK SALES ORDER

SALESMAN

TAG P.O. NO. 5119203 10710716 CUSTOMER NO. CUSTOMER ALPHA | CONTRACT NO. BID NO. ORDER DATE ORDERED BY INSTRUCTIONS OML CONTACT \$11331 MOGHTREAM RRRRRRR 10700718 OPHITE Sarana Moods S MCGUIRE AND HESTER COUNTER PICK UP VENDOR P.O. NO. 9009 RAILROAD AVENUE 2850 COLD SPRINGS RD 6 OAKLAND, CA 94603 FLACERVILLE, CA 95667-4003 SHIP VIA ROUTE NO. RUN NO. DEPART LITTI I PCS BAGS BOXES CRATES LENGTHS BUNDLES ROUTE DESC. CHST PH: 510-639-7676 CUSTOMER P.O. NO. JOB NAME ATTN: PACKED BY SHIP WT. SHIP DATE **DELIVERED BY** CHECKED BY RECTES IN LINE ORDER OTY. SHIP QTY. RO OTY ITEM CODE DESCRIPTION U/M **UNIT PRICE** TOTAL P.O. NO. **AISLE LOC** 1.60 160 n leangappon AYON ET PVC GAN RE PTPU 224 MAR YHZG: 210 B Th is illegal to install broducts that are not "lead free" in accordance with HS Federal a in physician dater sustems anticipated for human consumption. Products with *NP in dniu be installed in non-potable applications. Ruver is solely responsible for producgelection vatory Faucets with flow rates over fl.5 GPM are NO RETURNS ALLOWED WITHOUT PROPER AUTHORIZATION, RETURNED MATERIALS INBOUND OUTBOUND LESS SUBTOTAL TAX TOTAL DUE SUBJECT TO HANDLING CHARGES. SHIPPING DEPOSIT SEE REVERSE SIDE FOR IMPORTANT TERMS AND CONDITIONS OF SALE AND LIMITATIONS

**CUSTOMER'S** SIGNATURE:

Courts Smith

**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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name			Invoic Date		Batch
610	610	CA09PL	3	3926	679	3926		12/13/201		016	151996
Ordered	Shipped	Item	Number		Descrip	tion	Unit Pric	e l	υм	An	nount
1	1	P40S4P		4 PVC S40 SX	4 PVC S40 SXS 45 ELL			755	EΑ		15.76
1	1	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	ELL	5.	650	EΑ		5.65

 Invoice Sub-Total
 21.41

 Tax
 1.71

 Total Amt
 23.12

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

	FEI PLA 2850 CC PLACERY	ACERVI DLD SF	LLE RIN CA	#610 GS RD 95657		VC. a WOLSEL	K S A I	SALES ORDER					ACCEPT B/O = SHOWROOM = SOURCE = SOE IB FRT = N OB SHP = N 13 DFC 2016 1 WRITER SALE			
PH: 530-522-3281 FAX: 530-622-2491 DRDER NO. 12/13/16 610 610 CUSTOMER NO. CUSTOMER ALPHA CONTRACT NO. BID NO. 11331 MCGUTREAN  MCGUIRE AND HESTER 9009 RAILROAD AVENUE 0AKLAND, CA 94603  CUST PH: 510-632-7676					610 610	COUNTER F	ORDER DATE ORDERED BY 12/13/16 RODGER  COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003			VIA  J COUNTY BAGS				TAG PO. NO.  OML CONTACT  Serena Moods  VENDOR  VENDOR PO. NO.  ROUTE NO. RUN NO. DI  LENGTHS BUNDLES ROUTE DESC.		
	MER P.O. NO.	510-6	32	7676 JOB NAM	E		ATTN:		SHIP	WT.	SHIP DAT	12	DELIVERED B	PACKED BY	10	CHECKED BY
	ORDER QTY	SHIP C	C,YT	RO OTY	ITEM CODE			DESCRIPTION		UNIT PRIC	CÉ U	my/	TOTAL	P.O. NO	).	AISLE LO
1	1	1	1/		P4NS4P	& PVC	540 SXS 4	5 ELL		15.7	755 EG	1				- X18D
	BECAUSE !	1	$\prec$					North Heller Control	rical regulate				N. Yes	1.3	1.5	J03-C2-
2	hada a kina a kina a	1/	1	) n	MUL DANGBA	4 PVC	SWR SW HX	H 22-1/2 FII		5.1	550 EA	1				CEMX
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e Ma	II lead	free	20	d can o	nly be installe	d in non-po	table app	lications. Buye	er is so	lelu res	sponsi	ble	for proc	luct select	lon.	C 30 20 20 20 40
					vatoru Faucets				*****	*****	****	6 * 6 * 9	· 张 张 张 张 张 张 张 张 张	**********	关关关关	*****
					' in California		area nash	U.S OFFI AFE	N. Harris	St. N. T.	C4-9 E	3	170000	2		San Day of the
NO RE SUBJE SEE RE	TURNS ALL CT TO HANDL	OWED WI	THOUT ES.	PROPER A	UTHORIZATION. RETURNED MA	TERIALS SUB		INBOUND OUTBOUND Freight Shipping	TAX		LESS Deposit		TOTAL DUE			
USTON						DATE:		CHOTOMED CON	TERMS	<b>:</b>				3		



SYAR CONCRETE LLC RECEIVED PO BOX 2700

NAPA, CA 94558 (877) 792-7649

DEC 15 2016

INVOICE 90085

DATE

MCGUIRE AND HESTER

12/12/2016

Sold To:

MC GUIRE & HESTER 9009 RAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE

CA

Page 1

							20222224
	omer Code UIREHES		ject Code	Purchase Order P3926-08	Job Number 3926	:	Order 50
====							
			Product		Unit of	Unit	Extended
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price
12/12	41024305	2.00	SS060NR9	SAND SLURRY	су	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	TOTAL DUE
				\$434.17
DISCOUN	T TAX ON			
AMOUNT	DISCOUNT	IF PAID 1	BY YOU MAY DEDUCT	
2.00	0.16	01/10/203	17 2.16	

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!



## SYAR CONCRETE LLC

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE	TICKET#
12/12/2016	41024305
P.O. #	JOB #
P3926-08	3926
SYAR ORDER #	<u> </u>
50 DIF	?#e s

(GALLONS)

		* 4 1 0 5	4 3 0 1	) * [				
SOLD TO		DELIVE		- 17			PLANT CODE	
	GUIREH GUIRE & HESTER		AIRS LAN				41 C.	ameron Pa
1.17	GUIRE & HESTER	EL.	AIRS & B	ROADWAY	PLACERV	ILLE	PLANT LOCATI	ION
	<u></u>					1	3527 Du	rock Rd.
START BATCH/	MIX CYCLE LEAVE PLANT	ARRIVE JOB	START POL	JR FIN	IISH POUR	WASH	TUOI	LEAVE JOB
4 4 6	35 11:55	12.20	12:2	1 1	2,25			
SCHEDULED DEL	CIVERYTIME CU. YDS. ORDERED	CU. YDS. DELIVERED LO	AD#	MIX DESIGN #		SLUMP	U	ISAGE
12:1	10 2	Z	1	SSØ6@NR	5)	3.00 i	T	
QUANTIT	Y PRODUCT CODE	PRODUCT DES	CRIPTION-SEE BA	TCH DATA		UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
2.20	ð SSØ6ØNR9	6 Sack San	d Slurry				уd	
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1 114.5 1 77.12	DNOTEWHIE DE	HIND THME						
TRUCK#	DI	RIVER			in the second			PREVIOUS TRUCK
8075	JEFF WINGE	The Control of the Co	W.	ASHOUT USED		vo □ DRUI	M COUNTER	
BUYER IS RESP	ONSIBLE FOR PROVIDING SAFE A	CCESS OFF PAVEMENT. The s	size and weight	WATER ADDED AT	CUSTOMER REQI	JEST		
l desire. Your siana	I cause damage to the premises and/ ature below is a RELEASE relieving thi	s supplier and its affiliates from an	v responsibility	EXCESSIVE WAT: TO CONCRETE	ER IS DETRIMENT E PERFORMANCE		SUB TOTAL	
from damage that	at may occur on this premises and/o	or adjacent property such as cur	rbs, sidewalks, X				TAX	
help the driver rer	move mud from the wheels of his/her v	ehicle so that is will not litter the r	public street(s).	REQUES L LOAD 3/4 LOAD	TOR'S NAME	I/4 LOAD	TOTAL	
Additionally, the t	undersigned agrees to indemnify and filliates for any and all damage to the p	hold harmless the driver of this	truck and this	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u> </u>
claimed by anyon	e to have arisen out of delivery of this	order.	, ,	LONS) (GALLONS)	(GALLONS) (G	SALLONS)		

WEIGHMASTER CERTIFICATE

THIS ISTO 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

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.

Department of Food	and Agriculture.		amovina beamore and rividescend dode, administered by the bivision of weasthement standards of the camofina
Weighmaster:	ROBERT STACY	·	
Batch Data	,		
	DS SS060NR9	User user Returned	Disp Ticket Num Ticket ID Time Date 41024305 41218 11:35 12/12/16 Oty Mix Age Seq Load ID D 24301
CEMII/V   CONSAND	esign Oty Requi 565.0 16 1130.0 2544 16 5321	red Batched 1b 1130.0 1b 1b 5300 1b	% Moisture Actual Mat 4.57% M 28 gl
WATER Actual Load Total: Slump: 3.00	60.00 GL 40 Num Batches: 1 6430 lb Design	୦୫୮ କ୍ଷୟ ୧୯.୫୫ Water/Cement	Menual 11:35:20



B-133

## CERTIFICATE OF COMPLIANCE

	READY MIX CONCRETE	
TO: Mc Guire	\$ Hester	
We certify that the Portland cement below are br	t, chemical and mineral admixtural rands stated and comply with sp	res contained in the material described ecifications for:
MIX ID:	CONTRACT NUMBER:	Slair Rd. Placeruill
CEMENT BRAND:	TERMINAL LOCATION:	
Nevada Cemer		nento II
	CHEMICAL ADMIXTURE	1601.00
BRAND:	MANUFACTURER:	TYPE:
BRAND:	MANUFACTURER:	ТҮРЕ:
BRAND:	MANUFACTURER:	TYPE:
BRAND:	MANUFACTURER:	TYPE:
CHECK BOX IF A CHEM	MICAL ADMIXTURE WAS NOT US	
	MINERAL ADMIXTURE	DED
MANUFACTURER:		CLASS:
		F
DELIVERY DATE: 12-12-2	ERAL ADMIXTURE WAS NOT USE	D
LIST DELIVERY TAG NUMBERS:	2016	
AUTHORIZED SIGNATURE:	7	



600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530\6269751

1085 00002 65561 CASHIER SARAH

12/12/16 08:55 AM

0000-533-829 80# SAKRETE <A> 80LB SAKRETE CONCRETE MIX 803.45

27.60

SUBTOTAL SALES TAX TOTAL XXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 251476/2022473

27.60 2.21 \$29.81 29.81 TA

P.O.#/JOB NAME: 3926



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. B More doing.**

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 98929 12/12/16 01:31 PM

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

049081133160 PVC BUSHING <A> 1.26

1-1/4"X1" PVC BUSHING SPGXS
0000-193-712 PVC40 PEPIPE <A> 2.53

3/4" X 10' PVC40 PE PIPE

SUBTOTAL SALES TAX TOTAL
XXXXXXXXXXXXXXXXX6209 MASTERCARD AUTH CODE 446043/2012228

AUTH CODE 446043/2012228

12/12/16 01:31 PM

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P.O.#/JOB NAME: 3926



RETURN POLICY DEFINITIONS
POLICY ID DAYS POLICY EXPIRES ON

#### Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 McClellan, CA 95652-2027

Tel: 1-855-284-1127 Fax: 916-640-8864 www.corix.com

#### INVOICE

COLIX Water Products

> Invoice Number: 17613035112 Invoice Date: 12/14/16

> > Page: 1

Bill To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603

Ship To: Corix Water Products (US) Inc.

4522 PARKER AVE STE 700 MCCLELLAN, CA 95652-2027

USA

Cust No. Terms

Due Date

MCGHES

2% 10th next month net 30th next month

01/30/17

PST Exempt No.

SalesPerson Creator

Ship Via

Ship Date

Dale Rasmussen **JOGONZALEZ** 

CUSTOMER PICK UP

12/12/16 P.O. Number

Our Order No. 17612036919

P.O. Date

Cust Job Name Blairs Lane Bridge Replacement

12/12/16

3926

GST Exempt No.

Posted By

NVERNON

Job No.

Item No.	Description	Unit	Order Qty	Quantity	<b>Unit Price</b>	<b>Total Price</b>
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 ***

**Taxable Amount** 690.00

Tax Exempt Amount

0.00

Subtotal: Invoice Discount: Total Sales Tax:

690.00 0.00 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**

		ILI LAII	.,							
City Of Placervil									Change Order	028
	926 - Placerville - Blairs Lane Bridge								Billing Number	134.0
	lcGuire and Hester								Report Date	12/13/2016
Description of Work: Ca	altrans 7 Valero								Perform Date	12/13/2016
Labor Charges									Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs S	Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	445.88
L01 <b>4273</b>	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
Equipment Char	ges								1	
Equipment ID	Description	RT Hrs	OT Hrs		RT Rate	OT Rate	Delay Factor	Extended	Subtotal Labor	499.38
E01 <b>02292</b>	Ford F-250 Utility Pickup	4.00			22.760			91.04	Subsistence	0.00
E02 <b>05034</b>	Compressor P185R I-R	8.00			17.330			138.64	Other Expenses	0.00
Material/Special	ist Work/Lump Sum or Unit Price Payme	nt							ми 35.00%	<u>174.79</u>
Number	Date Vendor Name and Description				ι	Units	Unit Price	Extended	Labor Total	674.17
M01 0000100339	12/13/2016 Home Depot / Material Buy - Concrete	And Grout			1.	000 LS	40.34000	40.34		
									Equipment	_
									Subtotal	229.68
									<i>м</i> υ 15.00%	<u>34.46</u>
									Equipment Total	264.14
									Material C	harges
									Subtotal	40.34
									<i>м</i> υ 15.00%	<u>6.05</u>
									Material Total	46.39
									Subcontract	Charges
									Activity Total	984.70
									Bill Subtotal	984.70
			1 -							
Marine 1	McGuire and Hester		Ac	ccepted:					Bill Total 🛨	984.70
MCUIRE				Customer:			Date:			
HESTER	Jah Cantagti Illiana Cutianna (040) 070 0000			N			-		Page 1	
	Job Contact: Hugo Gutierrez (916) 873-2690			Contractor:			Date:		. 490	



# EXTRA WORK REPORT CONSTRUCTION COMPANY

		,				
			M&H JOB NO: <b>39</b> Zb			
			EXTRA WORK ORDER NO: 9830028			
TO: CITY OF PLACERVILLE			DATE OF REPORT: 12-13-14			
PROJECT: BLAZES LANE BR			DATE PERFORMED: 12-13-16			
DESCRIPTION OF WORK: JACK	Hoic IN DI @ CAN PRAN					
TO INSTAU 4" STORM DRASH PERE / CONCRETE						
COURR AND THEN BACKFILL						
SUMMARY OF LABOR AND EQUIPMENT						
EMPL # EMPLOYEE NAME   E	Q #	EQ DESC	CRIPTION	TRADE		HOURS
4273 ROGER KRUG 0.	2292	F-250	PU	LABOR	Foremon	Ц
6728 Eaxe PANSEZ						4
						-
C	25034	Ass	Compressor			В
			1			
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		10-14-0-1 (Trouble-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	· · · · · · · · · · · · · · · · · · ·			
						7 1 A
				<del>- //</del>		
		***************************************				
	erreggen to 2 data facility stages the person of the facility	THE RESIDENCE OF THE PERSON OF				
CHIMMARY OF MATERIAL & CREA	TALTY	EOBOES				
SUMMARY OF MATERIAL & SPECIALTY FORCES						
Regrade Dwys Not included - WORK WILL be Perform at a later date.						
Perform at a later date.						
2- BACS FAST SETTENC CONCRETE						
2. BAGS NON SHERNX GROWS						
				1.1		
Kocca Krug-				ust led	17/9	1116
McGuire & Hester Representative			_	Work Auth	orized by / D	ate



## More saving. More doing.

600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00001 00339 CASHIER SANDRA 12/13/16 07:30 AM

0000-842-303 50# FAST SET <A>
50LB FAST SETTING CONCRETE MIX
203.98 7.96
NLP Savings \$1.40
764661163503 50#GROUT <A>
50LB NON-SHRINK CONSTRUCTION GROUT
29.40

SUBTOTAL 37.36 SALES TAX 2.98 TOTAL \$40.34 XXXXXXXXXXXXXXXX6213 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.



McGuire & Hester Representative

## EXTRA WORK REPORT CONSTRUCTION COMPANY

			M&H JOB NO	3926		
			EXTRA WOR		NO: 98300	989
TO: City of Percentur	6_		DATE OF RE	PORT:	-19-16	
PROJECT! RLASAS LANG	BR		DATE PERFO	DRMED: /	2-19-16	
DESCRIPTION OF WORK: Re	- GRAC	SE CA	TRANS	Drave	WAS AF	TER
DIGGING TRENCH	Fore	NEW	DEATH	INSO	-1	
· ·	,					
SUMMARY OF LABOR AND EQ	JIPMEN	ranga.	ni The Maria I are the primary against the			
EMPL # EMPLOYEE NAME	EQ#	EQ DES	CRIPTION	TRADE		HOURS
4273 Rocer Krue	02297	F-25	TO PU	LABOR	Forenen	1
7359 CUETIS SMITH			•	OPERA	•	1
1227 LESSE DAY	-			L	130-12	1
/	09043	SKID	LOADER			1
	15026	481.	Rover			
			^			
				is as contra		 
SUMMARY OF MATERIAL & SPI	ASIALI M	FURUE				
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					<u>'</u>	
<u> </u>						
1 0 ''				1 1 . 1	,	1
Rocer Kews-			<i></i>	A-16	12/2	1/16

		<u> </u>	A WORK REP	<u> </u>				
City Of Placervil	le						Change Order	028
Contractor Job: 39	926 - Placerville - Blairs Lane Bridge						Billing Number	135.0
	cGuire and Hester						Report Date	12/19/2016
Description of Work: Ca	altrans Driveway						Perform Date	12/19/2016
Labor Charges							Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate Subs Rate	Extended	<b>⊣</b>	186.57
L01 <b>4273</b>	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
- ⁰³ 1227	JA Day II	1.00		50.260		50.26		
Equipment Char	ges						Subtotal Labor	208.96
Equipment ID	Description	RT Hrs	OT Hrs	RT Rate	OT Rate Delay Factor	Extended	Subsistence	0.00
E01 <b>02292</b>	Ford F-250 Utility Pickup	1.00		22.760		22.76	Other Expenses	0.00
09043	John Deere 210 LJ Skip Loader	1.00		57.010		57.01	MU 35.00%	<u>73.14</u>
15026	CB 224E 47" Double Drum AC 06	1.00		56.810		56.81	Labor Total	282.10
							Equipment	_
							Subtotal	136.58
							<i>м</i> υ 15.00%	<u>20.48</u>
							Equipment Total	157.00
							Material C	harges
								gee
							Subcontract	Charges
							Activity Total	439.16
							Bill Subtotal	439.1
	McGuire and Hester		Accepted:				Bill Total <b>∔</b>	439.1
M'CUIRE HESTER			Customer:		Date:			
HESTER	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:		Date:		Page 1	

				AWORKKILL	<u> </u>					
City Of Placervil									Change Order	028
		erville - Blairs Lane Bridge	Э						Billing Number	136.0
Work Performed By: M									Report Date	12/20/2016
Description of Work: Ch	nevron Drive	way							Perform Date	12/20/2016
Labor Charges									Labor Cha	
Labor ID	Employee	Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	273.20
L01 <b>4273</b>	R Krug		2.00		61.210			122.42	SC 12.00%	32.79
^{L02} <b>7560</b>	K Sullivar	າ	1.50		50.260			75.39	OT Labor	0.00
L03 <b>3844</b>	C Jones		1.50		50.260			75.39		
<b>Equipment Char</b>	ges								Subtotal Labor	305.99
Equipment ID	Description	1	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 <b>02292</b>	Ford F-2	250 Utility Pickup	2.00		22.760			45.52	Other Expenses	0.00
Material/Special	ist Work/L	ump Sum or Unit Price	Payment						ми 35.00%	107.09
Number	Date	Vendor Name and Description			I	Units	Unit Price	Extended	Labor Total	413.08
M01 5136232	12/20/2016	Ferguson Enterprises / Materi	ial Buy - Fittings		1.	.000 LS	70.47000	70.47		
M02 17613035655	12/20/2016	Corix Water Products / Materi	ial Buy - Drain Box		1.	.000 LS	248.41000	248.41	Equipment	_
									Subtotal	45.52
									<i>MU</i> 15.00%	<u>6.83</u>
									Equipment Total	52.35
									Material C	harges
									Subtotal	318.88
									MU 15.00%	47.83
									Material Total	366.71
									Subcontract	Citalyes
									Activity Total	832.14
									Bill Subtotal	832.14
(Column 1)	McGuire	and Hester		Accepted:					Bill Total +	832.14
MCUIRE				Customer:			Date:			
THE LEK	lob Cont	ot. Hugo Cutions - (040) 070 0	600	0			Deter		Page 1	
	Job Contac	ct: Hugo Gutierrez (916) 873-20	UEO	Contractor:			Date:		. ugu	



## EXTRA WORK REPORT

## CONSTRUCTION COMPANY

	MAH IOD NO. 2021					
	M&H JOB NO: 3926					
	EXTRA WORK ORDER NO: 9830020					
TO: CITY OF PLACEPUTUE	DATE OF REPORT: 12-20-16					
PROJECT: BLACKS LAVE BR	DATE PERFORMED: 12-20-16					
DESCRIPTION OF WORK: JOENTITY DA	SINAGE PROSES WITH LAZER					
AND THERAID DIG AND INS						
DI @ STATION # 108+30						
SUMMARY OF LABOR AND EQUIPMENT						
EMPL # EMPLOYEE NAME   EQ #   EQ DES	CRIPTION TRADE HOURS					
4273 ROSER KRUL 07292 F-25						
7560 KEWEN SULTIMA	LABOR 1.5					
3844 CHEES JONES	1.5					
SOIT CHES SINES	LAU C 113					
·						
SUMMARY OF MATERIAL & SPECIALTY FORCES						
	_					
FERGUSON ENTERPRISES	INC.					
2 - 4" 22° FETTENGS						
1-4" Couples						
1- Can PUC CEMENT						
The state of the s						
CORIN WATER PRAS						
	VX S					
V-12 ORAGU BOX V-12 STEEL GRATE	•					
UTIL STEEL GRATE						
	14 111					
Koull Kevi	April 19191116					
McGuire & Hester Representative	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
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:

Ship To:

MCGUIRE AND HESTER 9009 RAILROAD AVENUE OAKLAND, CA 94603 COUNTER PICK UP 2850 COLD SPRINGS RD PLACERVILLE, CA 95667-4003

Ship Whse	Sell Whse	Tax Code		stomer Number	Sales Person	Job Name		Invoic Date	Batch	
610	610	CA09PL	3	3926	679	BLAIR'S & BROAD	OWAY	12/20/2016		152362
Ordered	Shipped	Item	Number	Description			Unit Price	UM	An	nount
1	1	H25515		4 0Z PRO-PO	XY EPOXY 20	)	5.99	90 EA		5.99
1	1	P40SCP		4 PVC S40 SX	S COUP		5.58	33 <i>EA</i>		5.58
1	1	031020		32 OZ PVC MI	ED CLR CMN1	Τ	20.66	63 <i>EA</i>		20.66
2	2	PSDTC26	60S	2X60 DUCT TA	APE PREM GF	RD SILV	10.86	60 EA		21.72
2	2	MUL0409	64	4 PVC SWR S	W HXH 22-1/2	? ELL	5.65	50 EA		11.30

 Invoice Sub-Total
 65.25

 Tax
 5.22

 Total Amt
 70.47

TOTAL DUE ---> 70.47

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://wolseleyna.com/terms_conditions GOVT BUYERS: ALL ITEMS QUOTED ARE OPEN MARKETUNLESS 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.

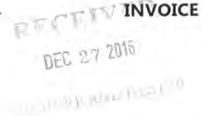
WATER FLOW RATE NOTICE: LAVATORY FAUCETS WITH FLOW RATES OVER 0.5 GPM ARE NOT ALLOWED FOR 'PUBLIC USE' IN CALIFORNIA.

7/		UJUI	A EIA 1		EJ, MTC.	a WOLSELLY com	pany								SHOWROOM SOURCE =		and the second
FE	I PLAC	ERVELLI	E #610												IB FRT =		
		D SPRI		s mmm											OB SHP =	M . 716 10	.O. 
171		i.l., i., i.,	A 95667	**************************************				*							20 DEC 21 WRITER	SALES	SMAN
HCI ORDER NO	: 530-	-622-32	91 FA	X: 530-622- HPWHS. SELLW	-249 <u>)</u> HS.			STOCK	SA	L E S	ORD	ER			TAG P.O. NO.	ñï	<u> 79 — </u>
13623	2	12/2	0/16	610 6	10												
CUSTOMER		44 A. S. S. S.	PHA CONTRA	ACT NO.	BID NO.	ORDER DATE	ORDERED BY		INST	RUCTIONS					OML CONTACT		·
11331	ļ,	<u> 1CGUILRE</u>	AN L			1.2/20/16	I ROGER CR	'Fbl	—						<u>Aaron Ima</u> VENDOR	<u>schwel</u>	ller
S MOGH	ITRE ON	ID HEST	e p		s cr	OUNTER PICK	(JD										
9009	RAILE	VA CAOS	ENUE			350 COLD SPE									VENDOR P.O. NO.		
OAKL	AND, C	)A 9450	3		P P	LACERVILLE,	CA 95667-4	.003	SHIP	VIA					ROUTE NO.	RUN N	IO. DEPAR
				-	T					u count	CD DT	^V116	5				
o					Ö			•	PCS		BOXES	CRATES	LENGTHS	BUNDLES	ROUTE DESC.		
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GOS LINE O	RDER OTY.	SHIP QTY.	TRLAT	R'S & BROAD	OMAY CODE		DESCRIPT	TION		UNIT PRI	ICE	U/M	TOTAL	 L	P.O. NO.		AISLE LO
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	la classica.														ne na a	lb 📗	
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			UT PROPER /	AUTHORIZATION. RE	TURNED MATERIAI	LS SUBTOTAL	INBOUND FREIGHT	OUTBOUND SHIPPING	TAX		LESS DEPOSIT		TOTAL I	DUE			
		NG CHARGES. For importai	NT TERMS ANI	D CONDITIONS OF SA	LE AND LIMITATION	NS	Insetti	OHII ING			2/21-0011						
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SIGNATUR					<u> </u>	DATE:	· · · · · · · · · · · · · · · · · · ·	rest of the second seco									
							CUSI	OMER COPY								the same as and the same	ment of the second

#### 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 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

Cust No.

Item No.

WWV12

MCGHES

Terms

2% 10th next month net 30th

Description

V12 DRAIN BOX H20

V12 STEEL GRATE HD

next month

**Due Date** 

PST Exempt No.

01/30/17

SalesPerson Creator

Ship Via

Ship Date

12/20/16

OUR TRUCK

Dale Rasmussen JOGONZALEZ

P.O. Date P.O. Number 12/20/16

3926

1

Our Order No. 17612037662 Cust Job Name Blairs Lane Bridge

Replacement

GST Exempt No.

WWV1271W420

Posted By

NVERNON

Unit

EA

EA

Job No.

1

**Total Price** Order Qty Quantity **Unit Price** 130.00 1 130.00

100.00

*** If Paid by 01/10/17, discount available = \$4.60 ***

0,00

**Taxable Amount** 

**Tax Exempt Amount** 

230.00

Subtotal: Invoice Discount: Total Sales Tax:

230.00 0.00 18.41

100.00

Total:

248.41

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

Contractor Job: 3926 - Placerville - Blairs Lane Bridge Work Performed By: McGuire and Hester Description of Work: Chevron Driveway  Labor Charges		<b>028 137.0</b> 12/21/2016
Work Performed By: McGuire and Hester Description of Work: Chevron Driveway  Labor Charges Labor ID Employee Name  REPORT Perfor  REPORT Perfor  REPORT Perfor  REPORT Perfor  REPORT Perfor  RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended	ort Date	
Description of Work: Chevron Driveway  Labor Charges  Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended RT Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended		,, _ 0 . 0
Labor ID Employee Name RT Hrs OT Hrs Subs Units RT Rate OT Rate Subs Rate Extended		12/21/2016
Laborito 171113 OTTHIS GUDS OTTHIS GUDS OTTHIS GUDS TATLE GUDS TRACE EXICITION	Labor Char	
L01 4273 R Krug 1.00 1.00 61.210 80.710 141.92 sc	Labor	563.81
	C 12.00%	67.67
L ₀₂ 7560 K Sullivan 5.00 50.260 251.30 OT La	Labor	80.71
L03 3844 C Jones 5.00 50.260 251.30 SC	C 12.00%	9.69
Equipment Charges Subto	ototal Labor	721.88
	osistence	0.00
E01 02292 Ford F-250 Utility Pickup 2.00 22.760 45.52 Other	er Expenses	0.00
Material/Specialist Work/Lump Sum or Unit Price Payment	1U 35.00%	<u>252.66</u>
Number Date Vendor Name and Description Units Unit Price Extended Labor	oor Total	974.54
M01 90281 12/21/2016 Syar Concrete LLC / Material Buy - Slurry 1.000 LS 382.87000 382.87		
M02 0005625058 12/21/2016 Home Depot / Material Buy - Concrete & Mortar Bags 1.000 LS 30.41000 30.41	Equipment C	_
Subto MU		45.52 <u>6.83</u>
		52.35
	uipment Total	JZ.33
	Material Ch	ıarges
Subto	ototal	413.28
MU	15.00%	<u>61.99</u>
Mater	terial Total	475.27
	Subcontract (	 Charges
Activi	ivity Total	1,502.16
Bill S	Subtotal	1,502.16
McGuire and Hester  Accepted: Bill To	Total +	1,502.16
MCGUIRE HESTER  Customer:  Date:		
	ge <u>1</u>	

B-137



# EXTRA WORK REPORT CONSTRUCTION COMPANY

		M&H JOB NO	3926	
			K ORDER NO: 983	らいとい
TO: CITY OF PLACEOUS	1186	DATE OF RE	PORT: 12-21-	16
PROJECT: BLATES LANG	B.R.	DATE PERFO	DRMED: 12-21	-16
	WISH NEW		@ CHCURIN	Drewn
Aprice STATION 108+10	- 108+30	Pove	SAND SURRY	(AD)
AUD MOORE AU	- 4 Box's	, , , , , , , , , , , , , , , , , , , ,	7	
SUMMARY OF LABOR AND EQ				
EMPL # EMPLOYEE NAME	EQ# EQ DES	CRIPTION	TRADE	HOURS
4273 Kocce Kruce	02292 F-25	o Pu	LASOR FORCE	1//07 كسير
7560 KEURN SULEUM			LAOR	5
3844 CHEES JONES			LABOR	5
SUMMARY OF MATERIAL & SP	ECIALTY FORCES			
16	SACK :	Cana Ca		
1.5 yoras	SACK	JANO JL	ر مرات	
~				
7 8000				
	KRESK			
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1 MEXINE	Conspance			
-			·	
		A	A 1 1 A	15/53/14
Korea Keve	_		inst hone	12/31/16
McGuire & Hester Representative		_	ノ Work Authorized b	v / 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 BAILROAD AVENUE OAKLAND

CA 94603

Ship To:

BLAIRS LANE BRIDGE REPLACEM BLAIRS & BROADWAY PLACERVIL PLACERVILLE CA

Page 1

***	**********							
			Project Code Purchase Order 4584 P3926-08		Job Number 3926	7	Order 10	
			Product	************************	Unit of	Unit	Extended	
Date	Ticket #	Qty	Code	Product Description	Measure	Price	Price	
12/21	41024366	1.50	SSOCONR9	SAND SLURRY	dy	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	



TOTAL YARDS	TAXABLE AMOUNT	8.000 TAX	NON-TAXABLE	
1.50	354.50	28.37	0',00	TOTAL DUE
********		************		\$382.87
DISCOUN	T TAX ON			
AMOUNT	DISCOUNT	IF PAID B	Y YOU MAY DEDUCT	
1.50	0.11	01/10/201	7 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).



EW-DI'S

B-137

## **SYAR CONCRETE LLC**

P.O. Box 2700 Napa, CA 94558 Phone # 877-792-7649



DATE	TICKET #	
12/21/2016	41024366	5
P.O. #	JOB#	
P3926-09	3926	· .
SYAR ORDER #	<u> </u>	
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SOLD TO		1 Ma	DELIVERTO	<u> </u>			PLANT CODE	
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	E & HESTER				WAY PLACE		PLANT LOCAT	
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START BATCH/MIX CYCL	E LEAVE PLANT	ARRIVE JC	1	START POUR	FINISH POUR	1 10/	ASHOUT I	LEAVE JOB
START BATCH/MIX CYCL	1700		, B	.35	<i>a</i> 3	***	AGIIOOI	CLAVE JOB
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8053	MARK WOONE	R		WASHOU	T USED YES 🖂	NO 🔲 🛚	DRUM COUNTER	erati are il e
BUYER IS RESPONSIBLE	FOR PROVIDING SAFE A	CCESS OFF PAVEMEN	IT. The size and	weight WATER	RADDED AT CUSTOMER ESSIVE WATER IS DETRI		SUB TOTAL	
decire. Vour signature helov	mage to the premises and v is a RELEASE relieving the	is supplier and its affiliate:	s from any respor	nsibility To	CONCRETE PERFORMA		TAX	
from domage that may oc	cur on this premises and/oprovements, buildings, etc.	or adjacent property suc	h as curbs side	walks	<u> </u>			
hain the driver remove mud	from the wheels of his/her	vehicle so that is will not I	litter the public sti	reet(s). I fill load	REQUESTOR'S NAME  3/4 LOAD 1/2 LOAD	1/4 LOAD	TOTAL	
Additionally the undersion	ed agrees to indemnify and any and all damage to the	I hold harmless the drive	er of this truck a	nd this l		1 2		W
supplier and its alliliates for claimed by anyone to have	arisen out of delivery of this	order.	t property. without	(GALLONS)	(GALLONS) (GALLONS)	(GALLONS)		
CUSTOMER HAS RECEN	ED AND REVIEWED THE	S DELIVERY TICKET/TI	ERMS AND CON	NDITIONS. CUSTO	MER AGREES TO THE	TERMS AND	-  _	
CONDITIONS STATED HE	REIN, INCLUDING ALL OF	THE TERMS AND CON	IDITIONS STATE	ED THE FRONT AN	D BACK OF THIS DELIV	ERY TICKET.		لك
Signed:			<del> </del>	<del>-,</del>				
		WEIG	GHMASTER CEF	RTIFICATE	· whose signature is	his codificate	ho is a rossanizadi	authority of accuracy as
THIS IS TO CERTIFY that the prescribed by Chapter 7(co	ne following described compared with Section 12	modity was weighed, me 7000 of Division 5 of the C	asureo, or counte California Busines	eu by a weignmaste ss and Professions (	r, whose signature is on t Code, administered by th	e Division of Me	asurement Standar	ds of the California
Department of Food and A	griculture.							
Weighmaster: 뭐	BERT STACY				<u>an e e e e e e e e e e e e e e e e e e e</u>			
				·				1,117, 12 1111



#### 600 PLACERVILLE DRIVE PLACERVILLE, CA 95667 530)6269751

1085 00056 25058 12/21/16 06:57 AM CASHIER SELF CHECK OUT

099713047358 TUB <a></a>	5.75
SMALL MORTAR TUB	
039645100455 50# FAST SET <a></a>	
50LB FAST SETTING CONCRETE MIX	7.00
203.98	7.96
NLP Savings \$1.40	474 45
727096305559 RAPID MORTAR <a></a>	14.45
RAPID SET 55LB MORTAR MIX	- No. 1

		SUBTOTAL SALES TAX	28. 2.	16 25
~VVVVVV	พังงงงงเลา	TOTAL MASTERCARD	\$30.	
AUTH C	ODE 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.



1085 56 25058 12/21/2016 5799

	Ur.		KA WUKK KEP	OINT					
City Of Placery								Change Order	028
	3926 - Placerville - Blairs Lane Bridge							Billing Number Report Date	<b>143.0</b> 12/30/2016
	McGuire and Hester Drainage Modifications To Driveways							Perform Date	12/30/2016
Labor Charges								Labor Cha	
Labor ID	Employee Name	RT Hrs	OT Hrs Subs Units	RT Rate	OT Rate	Subs Rate	Extended	RT Labor	186.57
L01 <b>4273</b>	R Krug	1.00		61.210			61.21	SC 12.00%	22.39
L02 7359	C Smith	1.00		75.100			75.10	-	0.00
L03 <b>7560</b>	K Sullivan	1.00		50.260			50.26		
<b>Equipment Cha</b>	arges							Subtotal Labor	208.96
Equipment ID	Description	RT Hrs	OT Hrs	RT Rate	OT Rate	Delay Factor	Extended	Subsistence	0.00
E01 <b>02292</b>	Ford F-250 Utility Pickup	1.00		22.760			22.76	Other Expenses	0.00
E02 <b>02268</b>	Ford F-150 2013 HD Pickup	1.00		22.760			22.76	<i>ми</i> 35.00%	<u>73.14</u>
E03 <b>02211</b>	Ford F250 2008 3/4 ton xcab	1.00		22.760			22.76	Labor Total	282.10
Material/Specia	alist Work/Lump Sum or Unit Price Payme	ent							
Number	Date Vendor Name and Description				Units	Unit Price	Extended	Equipment	-
M01 90450	12/30/2016 Syar Concrete LLC / Concrete Buy			1	.000 LS	117.72000	117.72		68.28
								<i>м</i> υ 15.00%	10.23
								Equipment Total	78.51
								Material C	harges
								Subtotal	117.72
								<i>ми</i> 15.00%	<u>17.66</u>
								Material Total	135.38
								Wateriai Totai	133.30
								Subcontract	Charges
								Activity Total	495.99
									493.99
								Bill Subtotal	495.99
	McGuire and Hester		Accepted:					Bill Total 😛	495.99
MCUIRE	modulic and noster		Customer:			Date:		Siii Totai 🛖	<del>-33.33</del>
MGUIRE HESTER	<del>)</del>		Guotomor.			240.			
	Job Contact: Hugo Gutierrez (916) 873-2690		Contractor:			Date:		Page1	

NTS Special Bill Form



## **EXTRA WORK REPORT**

## CONSTRUCTION COMPANY

					M&H JOB N	<u>0: 3926</u>		
					EXTRA WO	RK ORDER I	NO: 9830	038
TO: CITY OF REACCOUTURE				DATE OF REPORT: 12-30-16				
PROJECT: BLAZE / ANG BD				DATE PERF	ORMED: 12	2-30-16		
DESCRI	PTION OF	WORK: Cu	T OUT	A/C	AND	Pour	Coveres	7/5
ŧ		Moura	DRAE			31	<u> </u>	*
				- · v · v · v -				
SUMMA	RY OF LA	BOR AND EQ	UIPMEN.	Γ				
EMPL#		EE NAME	EQ#	T T	CRIPTION	TRADE		HOLIDO
4273		L Keuc-	02292	**************************************	50 PU		- 1	HOURS
73.59	1 /3	s Smary	02768		_	LASE	r Foreman	<u>'</u>
7560	VENT	Susuan	02711	F.25		T PEA	MATON	
onth	KEUSA		102/11	F. U.		1 L14/31	<u> </u>	/
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McGuire &	Hester Re	presentative			(	Work Aut	horized by / D	ate



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 MCGUIREHES		Project Code 4584		Purchase Order P3926-08	Job Number 3926		Order 8	
****	=========		Product		Unit of	Unit	Extended Price	
Date	Ticket #	Qty	Code RP060AR5	Product Description CONCRETE	Measure	101.00	707.00	
12/30	41024436	7.00	113065	SYAR SET 55	/Y	8.00	56.00 80.00	
12/30	41024436	1.00	157005	MINIMUM LOAD CHA STANDBY CHARGE	ea	2.00	74.00	
12/30	41024436	1.00	157000 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

JAN 05 2017
MCGUIRE AND .....ER

NON-TAXABLE 8.000 TAX TOTAL YARDS TAXABLE AMOUNT TOTAL DUE 855.00 68.41 \$997.41 TAX ON DISCOUNT IF PAID BY YOU MAY DEDUCT DISCOUNT AMOUNT 7.53 01/10/2017 0.53 7.00

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!