

PO # 152751

OmS Rec 444399

AUSTIN-REED ENGINEERS, L.L.C.
GEOTECHNICAL CONSULTANTS
CONSTRUCTION MATERIALS TESTING

Page 1 of 3

Invoice No. 1631

April 2, 2018

Fort Bend County Engineering Department
301 Jackson Street, 4th Floor

Richmond, Texas 77469
Attn: Mr. Stacy Slawinski
Construction Coordinator

CONTRACT No.
Purchase Order No.

152751

Construction Material Testing

Project No. 2017C05

PAVING AND DRAINAGE IMPROVEMENTS
2013 Mobility Bond Project No. 13202

BILLING COST IN MONTH OF MARCH ' 2018

TOTAL AMOUNT FOR CURRENT INVOICE DUE

\$ 1,338.25 *OK, JJA 04/11/18*

TOTAL CONTRACT AMOUNT

\$ 116,972.00 ✓

TOTAL PREVIOUS INVOICE AMOUNT

\$ 112,596.60 ✓

TOTAL AMOUNT INVOICE UP TO DATE 97.4% of Budget

\$ 113,934.85 ✓

AMOUNT BUDGET REMAINING

\$ 3,037.15 ✓

I hereby certify that the amount invoiced is true and correct to the best of my knowledge.

THANK YOU FOR YOUR BUSINESS

Sydney Austin
Sydney Austin, PE
JJR

Invoice No.: **1631**

Page 2 OF 3

LAB CONTRACT No.

CONTRACT AMOUNT \$116,972.00

P.O. No. 152751

[illegible]

PROJECT DAILY ACTIVITY SUMMARY

Project: PAVING AND DRAINAGE IMPROVEMENTS BELLAIRE BVD. Project No: 2017C05
Location: From FM 1464 to SanPablo Drive Report No.: 26 Den. X 152 Gyl. 3-12-18
2013 Mobility Project No. 13202 FILE NO.: _____
Client: Fort Bend County Engineering Department Date: 3-12-18
Contractor: Allgood Construction Co., Inc. Testing Lab. AUSTIN-REED ENGINEERS, LLC
Technician Name: JAMES HEYWOOD Lab. Sub: _____

TIME RECORD

Time depart office: 8:30 Time arrive project: 9:30 Time depart project: 4:30 Time arrive office: 5:30
Billable RT hours _____ Billable OT hours _____ Technician Name (Print) JAMES Heywood
Lunch Start: 12:00 Lunch End: 12:30 Stand-By Time _____

The checked activities were performed: _____ Proctor Sample P/U _____ Concrete sample P/U
☒ Concrete Sampling ☒ Field Density Testing _____ Asphalt Testing
_____ Other (Description) _____

Location: Bellaire Blvd AND San Pablo AND Belliare

Summary of Field Activities:

ARRIVED AS SCHEDULE AT THE ABOVE PROJECT
PERFORMED COMPACTION INSPECTION FOR PAVING SAN PABLO DR.
BETWEEN BELLAIRE BLVD EBL & WBL. STA #39+94 - 40+27
PERFORMED CONCRETE INSPECTION FOR SAME AREA AND SIDEWALKS
NE & SE CORNERS OF BELLAIRE BLVD @ SAN PABLO DR. AND ALL FOUR
CORNERS OF BELLAIRE BLVD @
MADE (1) SET OF (4) 6"X12" FOR PAVING AND (1) SET OF (4) 6"X12" FOR SIDEWALK
Allgood Construction Rep. (Luis) / 281-830-3110

Technician Signature: James Heywood Certification Level & Organization NICET LEVEL II
Inspector Signature: _____ Inspector Name (Print): _____

**REPORT OF SOIL DENSITY (ASTM D6938-15 / TEX 115-E)
 BELLAIRE BLVD. FROM FM 1464 TO SAN PABLO DRIVE
 FORT BEND MOBILITY PROJECT NO. 13202
 HOUSTON, TEXAS**

Reported to: Fort Bend County Engineering Department,
 C/O RPS Klotz Associates Engineering Dept.
 1160 Dairy Ashford, Suite 500
 Houston, Texas 77079

Report No. 26Density.3-12-18
 Report Date: 3-13-18
 ARE Project No. 2017C05
 Test Date: 3-12-18
 Technician: J. Heywood, NICET-II
 Time: 8.5 hrs.
 Page 1 of 2

Attention: Mr. Donald M. Durgin, P.E.

CONTRACTOR: Allgood Construction Co. Inc.

General Location: 8" Thick Soil-Cement Fill Subgrade along intersection of San Pablo Dr. and Bellaire Blvd. from Sta.39+94 to Sta.40+27.

PROJECT SPECIFICATIONS

Intended Use Section 02336 (COH)	Min. / Max. Percent Compaction As per Item 220 (HCPID)	Moisture Content %	Loose Thickness (inches)
Cement Stabilized Sand Fill Subgrade	Min. 95% of MDD Determined according ASTM D698-A	Soil-Cement : 0% +3% Backfill: -2% +2%	8"

SOIL DATA

Proctor No.	Soil Description/ Location	Maximum Dry Density, Pcf (ASTM 698-A)	Optimum Moisture (%)	Plasticity Index (ASTM D4318) (%)	Liquid Limits (ASTM D4318) (%)
1	Fine Sand - Cement Mixture w/ Clay balls (1.1 Sk./yd ³)	109.5	13.0	N/A	N/A
2	Lt. Brown & Lt. Gray Lean Clay w/ Sand	113.4	14.8	27	43
3	Dark Gray and Tan Lean Clay w/ Sand	112.7	15.3	15	38
7	Light Gray Lean Clay Mixed w/ Lime	96.4	23.9	9	45
8	Grayish Brown Lean Clay Mixed with Lime (WBL)	98.5	24.3	8	43

Compaction Requirement: 95% of MDD

Moisture Acceptance Limits: 1) 13.0% to 17.0 %
 Moisture Acceptance Limits: 2) 12.8% to 16.8 %
 Moisture Acceptance Limits: 3) 13.3% to 17.3 %
 Moisture Acceptance Limits: 7) 23.9% to 26.9 %
 Moisture Acceptance Limits: 8) 24.3% to 27.3 %

Report No. 26.den.3-12-18
 Report Date: 3-13-2018
 Test Date: 3-12-18
 ARE Project No. 2017C05
 Technician: James Heywood, NICET-II
 Page 2 of 2

IN- PLACE DENSITY BY NUCLEAR METHOD (ASTM D6938 / TEX 115-E

Test No.	Lime Stabilized Subgrade along West Bound Lane and East Bound lane	Approx Elev. (ft)	Lift	Probe Depth	Field Wet Density (pcf)	Field Dry Density (pcf)	Field In- Place Moisture (%)	Proctor ID	Item 220 Compaction Level (%)	Pass / Fail
49	EBL @ Sta. 39+99; 18' RT		Final	6.0"	119.2	105.1	13.4	1	96.0	Pass
50	WBL @ Sta. 40+10; 12' LT		Final	6.0"	120.7	106.0	13.9	1	96.8	Pass
51	EBL @ Sta. 40+25; 8' RT		Final	6.0"	121.0	106.8	13.3	1	97.5	Pass
52	WBL @ Sta. 40+16; 14' LT		Final	6.0"	120.3	105.9	13.5	1	96.7	Pass

*- Below or exceed the specified tolerances.

DENSITY GAUGE DATA

Make	Model No.	Serial No.	Density Standard	Moisture Standard	Test Mode
Humboldt	5001EZ	3304	2683	442	Direct Transmission

Comments: Where tested; all material within the tested areas were in compliance With Project Specification Item 220.7 compact to minimum 95% of maximum dry density determined according to ASTM D698-A.

Submitted by:

Mail

Distribution:

Donald Durgin / RPS klotz associates

Michael Boenig / Algood Construction

AUSTIN-REED ENGINEERS, LLC


 Sydney Austin, P.E.
 Firm Registration No. F502
 JJR

**REPORT OF CONCRETE PLACEMENT OBSERVATION & TESTING
 BELLAIRE BLVD. FROM FM 1464 TO SAN PABLO DRIVE
 MOBILITY PROJECT NO. 13202
 FORT BEND COUNTY, TEXAS**

REPORTED TO: Fort Bend County Engineering Dept.
 C/O RPS Klotz Associates Engineering Dept.
 1160 Dairy Ashford, Suite 500
 Houston, Texas 77079

REPORT NO. 152cyl.3-12-18
SAMPLE DATE: 3-12-18
REPORT DATE: 3-19-18
ARE PROJECT NO. 2017C05
TECHNICIAN: J. Heywood NICET II
TIME: 8.5 hrs.
PAGE 1 of 2

ATTENTION: Mr. Donald M. Durgin, P. E.

CONTRACTOR: Allgood Construction Co. Inc.

General Location: Concrete Paving along Median of Bellaire Blvd. from Sta.39+94 to Sta.42+27.

LOCATION OF SAMPLE			
Set Number	Structure	Location	Quantity Represented
1	Paving	East Bound Lane at Sta.40 +10; 14' RT.	10/30 Cu.Yd.

DESIGN INFORMATION AND SPECIFICATIONS (ASTM C 94) TO DOT SPECIFICATION ITEMS 411, 416, 420, & 421						
Concrete Supplier	Mix Identification (Class "F")	Size of CA (inches)	Specified Strength @ 7 days (PSI) Section Item 420	Design Strength @ 28 days Class F Item 420	Item 416 Specified Slump (inches)	Item 421 Specified Air (%)
Allied Concrete Plant 4B side	22135506 (5.5 Sk.)	1 1/2	3000	3500	1 to 4	3 to 5

CYLINDER COMPRESSIVE STRENGTH TEST (ASTM C 39/ASTM C 1231) (TxDOT 418)								
Cyl. ID (474)	Age of Test (Days)	Date Tested	Total Load (pound-force)	Diameter (inches)	Area (in ²)	Compressive Strength (PSI)	Average Strength (PSI)	Type of Fracture
559	7	03-19-18	110,390	6.00	28.27	3900		Diagonal Fracture
560	7	03-19-18	107,750	6.00	28.27	3810	3855	Diagonal Fracture
561	28	04-10-18						
562	28	04-10-18						

REPORT NO. 152Cyl.3-12-18
 SAMPLE DATE: 3-12-18
 REPORT DATE: 3-19-18
 ARE PROJECT NO. 2017C05
 TECHNICIAN: J Heywood
 PAGE 2 of 2

CYLINDER DATA (Sampling & Curing Method ASTM C31) (Tex 447)									
Cyl. ID	Sample Time ASTM C 31	Batch Time	Tex 415 Slump (in.) ASTM C 143	Air Temp.	Tex 422 Concrete Temp. ASTM C 1064	Tex 414/416 Air (%) ASTM C 231/C 173	Tex 417 Unit Wt, pcf. ASTM C 138	Truck No.	Ticket No.
474	3:05 PM	2:16 PM	5.0	71°F	72°F	3.4	N/A	511	4534431
Spec Tolerance	Elapsed Time= 53 min. ASTM C94, Maximum= 90 min.		1"-4"	40°F & Rising	40°F to 95°F	3 to 6	-	-	-
ASTMC31 Curing	10.1.2 -Initial Curing (60°F to 80°F)		Field Cured Min. Temp Rdg. = 45°F Max. Temp. Rdg. = 70°F		10.1.3.1 Final Curing		Using Water Storage Tank (73.5 ±3.5°F)		

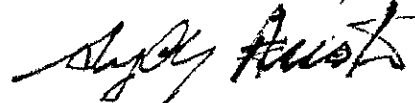
*- Below or Exceed the tolerances of project specification.

Submitted by:

Mail
Distribution:

- (1) Fort Bend County/
Stacy Slawinski
- (1) All Good construction Co.,Inc.
Michael Boenig

AUSTIN-REED ENGINEERS, LLC



Sydney Austin, P.E.
 TBPE Firm Registration No. F5022
 JJR/

SAMPLE PICK- UP REPORT
BELLAIRE BLVD. FROM FM 1464 TO SAN PABLO DRIVE
MOBILITY PROJECT NO. 13202
FORT BEND COUNTY, TEXAS

REPORTED:	Fort Bend County Engineering Dept. c/o OTHON, INC. 11111 Wilcrest Green Dr. Suite 128 Houston, Texas 77042	REPORT NO. 63.pickup.3- 13-18 SAMPLE PICK-UP DATE: 3-13-18 REPORT DATE: 03-14-18 ARE PROJECT NO. 2017C05 TECHNICIAN: James Heywood TIME: 2.50 Hrs. PAGE 1 of 1
ATTN:	R. E. Baker, P.E.	

CONTRACTOR: All Good Construction Co., Inc.

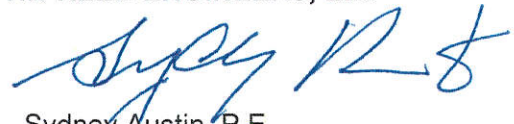
On March 13, 2018 Contractors superintendent requested ARE Technician to pick up concrete cylinders specimen that molded on 3-12-18 for Concrete Paving along Median from Sta. 39+94 to Sta.42+27, for the above referenced project. One (1) set of (4) cylinders were transported to the laboratory for processing and testing as required in referenced with ASTM Standard C39, C511, and C1231.

Mail Distribution:

- (1) Fort Bend County/
Stacy Slawinski
- (1) All Good construction Co.,Inc.
Michael Boenig

Submitted By:

AUSTIN-REED ENGINEERS, LLC


Sydney Austin, P.E.
Firm Registration No. F5022
JJR

Svatek, Donna

From: Robert "Bob" Baker <rbaker@othon.com>
Sent: Monday, April 09, 2018 12:03 PM
To: Slawinski, Stacy
Cc: Crawford, Wesley; Harris, Britten; Svatek, Donna
Subject: 13202-Bellaire (1464 to San Pablo) Testing Invoice
Attachments: 13202_Bellaire_Testing_Austin-Reed_3.31.18.pdf

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Stacy,

The attached testing invoice for the Bellaire project from Austin-Reed agrees with Othon records and is recommended for payment. Thanks, Bob

Robert E. Baker
Othon, Inc. Consulting Engineers
Office: 713-975-8555
Cell: 281-682-7116

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