



PO# 146066 BH
rec 397073
3/17/17

Reviewed 03/14/2017
HT

Houston 6120 S. Dairy Ashford Rd.
Austin Houston, TX 77072-1010
Dallas 281.933.7389 Ph
San Antonio 281.933.7293 Fax
www.hvj.com

Sunday, January 29, 2017 - Saturday, February 25, 2017

To: Mr. R. Brent Patterson, PE
c/o Fort Bend County Engineer
301 Jackson Street
Richmond, TX 77469

HVJ Project #: HCl610204
HVJ Invoice #: 17-070
HVJ Client #:
Date: 3/3/2017
Terms: Net 30 Days
Page: 1 of 1

Project: Widening and Construction of Bellaire Blvd.
from East Parkway Lakes to Lakehead Lane

Please Remit Payment to:
HVJ Associates, Inc.
P.O. Box 670581
Dallas, TX 75267-0581

PAST DUE INVOICES
Billing Inquiries: 281-983-8842

Date/ Report No	Description	Unit	Unit Price	Unit Measure	Quantity	Amount
0201/W6668	Tech 2/Field Soil Testing & Sample PU	Nicot II	\$ 65.00	hour	8.00	\$ 520.00
0201/W6668	Tech 2/Field Soil Testing & Sample PU	OT	\$ 97.50	hour	2.00	\$ 195.00
0201/W6668	Lab - CSS Comp Str		\$ 71.00	each	4.00	\$ 284.00
0201/W6668	Engineering Report Review (@ 0.10 hr/report)		\$ 149.00	hour	0.20	\$ 29.80
0201/W6668	Nuclear Gauge		\$ 10.50	hour	8.00	\$ 84.00
0201/W6668	Vehicle		\$ 10.00	hour	8.00	\$ 80.00
0202/W6694	Tech 2/Field Concrete Testing	Nicot II	\$ 65.00	hour	5.50	\$ 357.50
0202/W6694	Lab - Concrete Cylinder		\$ 17.00	each	6.00	\$ 102.00
0202/W6694	Engineering Report Review (@ 0.10 hr/report)		\$ 149.00	hour	0.10	\$ 14.90
0202/W6694	Vehicle		\$ 10.00	hour	5.50	\$ 55.00
0203/W6713	Tech 2/Field Concrete Testing	Nicot II	\$ 65.00	hour	4.00	\$ 260.00
0203/W6713	Lab - Concrete Cylinder		\$ 17.00	each	6.00	\$ 102.00
0203/W6713	Engineering Report Review (@ 0.10 hr/report)		\$ 149.00	hour	0.10	\$ 14.90
0203/W6713	Vehicle		\$ 10.00	hour	4.00	\$ 40.00
0204/-	Tech 2/Field Cyl PU	Nicot II	\$ 97.50	hour	2.50	\$ 243.75
0204/-	Vehicle		\$ 10.00	hour	2.50	\$ 25.00

Amount Due \$ 2,407.85

Billing Summary	
Contract Amount	\$92,857
Current Invoice Amount	\$ 2,407.85
Previously Billed	\$ 79,571.43
Total Billed Project to Date	\$ 81,979.28
Amount Remaining in the Contract	\$ 10,877.72
Percent Complete	88.3%

Certification

I certify that the above shown duly reflects services performed on referenced contract and that none of the sums currently billed have previously been paid. I also certify that all services have been performed for which payment is requested.

Hirendra (Harry) Patel, PE
CME Manager, Houston



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DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Widening and Construction of Bellair
WBS NO: (COH) W6668 TIME LEFT LAB: 8:00 AM/PM
HVJ PROJECT NO: HCI610204 TIME ARRIVED SITE: 8:30 AM/PM
CLIENT NAME: Fort Bend County TIME LEFT SITE: 6:00 AM/PM
CONTRACTOR: Allgood Cons. TIME ARRIVED LAB: 6:30 AM/PM
DAY: Wednesday LUNCH: 0.5
DATE: 2-1-17 TOTAL HOURS: 10.00

THE FOLLOWING ACTIVITIES WERE PERFORMED:

- ☐ SAMPLE P/U (BEAM OR CYL) ☒ FIELD DENSITY TESTING ⁵
☐ SOIL SAMPLE P/U ^{4248 - CSS for} ☒ ASPHALT TESTING ^{CS (SB)}
☒ OTHER CSS P/U ☐ CONC MONITOR/SAMPLING
☐ CONSTRUCTION SURVEY

SUMMARY OF FIELD ACTIVITIES: HVJ Tech reported to the project site and performed field density test for CSS Subgrade on Bellair westbound outside lane from Sta # 63+06 to Sta # 61+61 also the east bound outside lane from Sta # 62+99 to Sta # 61+61 approx. One sample of CSS was picked up by Tech for Lab Comp. Strength testing.

TECH SIGNATURE: A. [Signature] CERT LEVEL & ORG.: NICet # 112420
TECHNICIAN PRINTED NAME: Andrew (Tew) [Signature]
INSPECTOR SIGNATURE: [Signature] INSPECTOR NAME (print): Jesse S. Perez
DATE: 2-1-17 TIME: _____



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www.hvj.com Registration No. F-000646

Report No: ND:HOU-W6668

Field Density Test Report

Client: Fort Bend County
Contract No: 13202, 13203 & 13204
Project: Widening and Construction of Bellaire Boulevard from East Parkway Lakes to Lakehead Lane
Project No.: HC1610204

CC: Clifford Halvorsen
Huy Ton
Loethen, Amanda
Michael Boenig

Date of Issue:

2/2/2017

Testing Details

Tested By: Anwear Tewashy
Date Tested: 2/1/2017
Field Methods: ASTM D 6938
Specification: HC 433
Test Mode: Direct Transmission
Serial Number: 9016

Gauge Type: Humboldt 75001EZ
Standard Count: Density: 3384
Standard Count: Moisture: 368

Proctor Information

Sample ID	Material	Method	MDD (lb/ft³)	OWC (%)
HOU-W4874-S8	1.5 Sack / 7% Cement Stabilized Sand	ASTM D 698 (A)	107.5	15.7

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Water Content (%)	OWC Var (%)	Dry Density (lb/ft³)	Comp (%)	Comp Spec (%)	Results
1	HOU-W4874-S8	6	122.5	14.8	-0.9	106.7	99.3	≥95	P
2	HOU-W4874-S8	6	116.1	12.5	-3.2	103.2	96.0	≥95	P
3	HOU-W4874-S8	6	120.1	13.2	-2.5	106.1	98.7	≥95	P
4	HOU-W4874-S8	6	113.6	8.8	-6.9	104.4	97.1	≥95	P
5	HOU-W4874-S8	6	111.4	7.6	-8.1	103.5	96.3	≥95	P

Location

General Location: Bellaire WB & EB Outside Lane b/w Sta 63+06 to 61+61

Test No.	Location	Test Elev/Depth	Material/Layer
1	EB Sta 62+00	Final	Treated Subgrade
2	EB Sta 62+65	Final	Treated Subgrade
3	WB Sta 62+80	Final	Treated Subgrade
4	WB Sta 62+20	Final	Treated Subgrade
5	WB Sta 62+20	Final	Treated Subgrade

Comments

Start Time: 6:00AM End Time: 6:30PM Lunch (hrs): .50 TOTAL TIME (hrs): 10.0
Technician: Anwear Tewashy, NICET II Certification #41313
Mr. Jesse Pere was notified of the test result on the site.

Legend

P = All results within specifications

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www.hvj.com Registration No. F-000646

Report No: SCS:HOU-W6668-S6

Issue No: 1

Soil-Cement Report

Client: Fort Bend County CC: Clifford Halvorsen

Huy Ton

Michael Boenig

Contract No: 13202, 13203 & 13204

Project: Widening and Construction of Bellaire
Boulevard from East Parkway
Lakes to Lakehead Lane

Project No.: HC1610204

Handwritten Signature: J. Randy Patel

Date of Issue:

2/9/2017

Sample Details

Sample ID: HOU-W6668-S6

Date Sampled: 2/1/2017

Material: 1.5 Sack - 7% Cement Stabilized Sand

Specification: 100 psi at 2 Days

Location: EBOL Bellaire at Station 62+75

Tested By: Steve Weiman, SET

Tests Results

Maximum Dry Density (pcf): 107.5

Optimum Moisture Content (%): 15.7

Moisture Procedure: Method A

Date Molded: 2/1/2017

Time Molded: 11:15

Molding Method: Field Mixed & Lab Molded

Drying Temperature (°C): 110

Compressive Strength of Soil-Cement Cylinders

ASTM D 1633

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Height (in)	Area (in ²)	Molding MC (%)	Test MC (%)	Type of Cap	Ultimate Load (lbf)	Compressive Strength (psi)	Required Strength (psi)	Dry Unit Wgt (pcf)
HOU-W6668-S61	02/03/17	2	4.00	4.58	12.57	13.6	13.6	U	3050	245	100	108.6
HOU-W6668-S62	02/03/17	2	4.00	4.58	12.57	13.6	13.6	U	2670	210	100	108.6
Average 2 Day Compressive Strength (psi)										230		
										Dry Unit Weight (pcf)		108.6
HOU-W6668-S63	02/08/17	7	4.00	4.58	12.57	13.6	13.6	U	5160	410	100	108.1
HOU-W6668-S64	02/08/17	7	4.00	4.58	12.57	13.6	13.6	U	4460	355	100	108.1
Average 7 Day Compressive Strength (psi)										385		
										Dry Unit Weight (pcf)		108.1

Remarks

Specimen(s) molded to ASTM D 559/D 560
Specimen(s) cured to ASTM D 1632
Water Content in accordance with ASTM D 2216
Capping: B = Bonded, U = Unbonded; ASTM D 1632

Technician: Anwar Tewashy, NICET II Certification #41313
Start Time: 8:00 AM End Time: 6:30 PM Lunch (hrs): 0.5 TOTAL TIME (hrs): 10.0

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DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Widening and construction of Bellaire Blvd. from East Parkway
WBS NO: (COH) HOU-W6694
HVJ PROJECT NO: HC1610204
CLIENT NAME: Fort Bend County Engineers
CONTRACTOR: All Good Construction
DAY: THU
DATE: 02-02-17
TIME LEFT LAB: 12:30 AM/PM
TIME ARRIVED SITE: 1:00 AM/PM
TIME LEFT SITE: 5:30 AM/PM
TIME ARRIVED LAB: 6:00 AM/PM
LUNCH: —
TOTAL HOURS: 5:30

THE FOLLOWING ACTIVITIES WERE PERFORMED:

- ☐ SAMPLE P/U (BEAM OR CYL) ☐ FIELD DENSITY TESTING ☒ 1x beam CONC MONITOR/SAMPLING
☐ SOIL SAMPLE P/U ☐ ASPHALT TESTING ☐ CONSTRUCTION SURVEY
☐ OTHER _____

SUMMARY OF FIELD ACTIVITIES:

As request by contractor, HVJ tech arrived at the job site for concrete testing and sampling.

TECH SIGNATURE: [Signature]

CERT LEVEL & ORG.: NICET II

TECHNICIAN PRINTED NAME: Hassan G

INSPECTOR SIGNATURE: [Signature]

INSPECTOR NAME (print): HUY TON

DATE: 2/2/17

TIME: 5:30 pm



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www.hvj.com Registration No. F-000646

Report No: CTR-HOU-W6694-C1

Issue No: 1

Concrete Test Report

Client: Fort Bend County
Contract No: 13202, 13203 & 13204
Project: Widening and Construction of Bellaire Boulevard from East Parkway Lakes to Lakehead Lane
Project No.: HC1610204

CC: Clifford Halvorsen
Huy Ton
Loethen, Amanda
Michael Boenig

Date of Issue:

2/9/2017

Mix Data

Supplier: Allied Concrete
Mix: 24157008
Compliance Strength: 3000 at age 3, 7 days
Required Strength: 3500 at age 28 days

Sample Details

Date Sampled: 02/02/17
Date Received: 02/03/17
General Location: Paving; Bellaire Blvd from Sta 61+61.34 to Sta 62+88.14 & Sta 61+81.45 to Sta 62+89.49
Sample Location: SW Corner at Sta 61+61.34, 40'E to 8'N
Curing Method: One day Field/Laboratory Cure
Contractor: AllGood Construction
Ticket No.: 4506909
Sampled By: Hassan Ghobadi

Truck No.: 384

Weather: Sunny

Specification: 02751 - COH Paving

	Measured	Specified
Slump (in):	ASTM C 143 7.5	2 to 5
Slump w/ plasticizer (in):	N/A	
Air Temp (°F):	71	≥35
Concrete Temp (°F):	ASTM C 1064 72	≤95
Air Content (%):	ASTM C 173 3.00	3 to 6
Unit Weight (pcf):	ASTM C 138 N/A	
Volume of Density Measure (ft³):	N/A	
Batch Size (yd³):	40.0	Time Batched: 12:52
Yd³ Placed:	80.0	Time Sampled: 13:35
Water Added (gal) Before:	0	Time Placed: 13:30
After:	0	Time in Truck (mins): 38

Compressive Strength of Concrete Cylinders

										ASTM C 39
Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Ultimate Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)	
HOU-W6694-C111	02/05/17	3	6.00	12.00	28.27	U	216610	5	7660	
HOU-W6694-C112	02/05/17	3	6.00	12.00	28.27	U	216840	5	7740	
Average 3 Day Compressive Strength (psi)									7700	
HOU-W6694-C113	02/09/17	7	6.00	12.00	28.27	U	241750	3	8550	
HOU-W6694-C114	02/09/17	7	6.00	12.00	28.27	U	241000	3	8520	
Average 7 Day Compressive Strength (psi)									8540	
HOU-W6694-C115	03/02/17	28								
HOU-W6694-C116	03/02/17	28								
Average 28 Day Compressive Strength (psi)										
Required Strength (psi)									3500	

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617, U = Unbonded ASTM C 1231

Remarks

Fracture Type: 3 = C39: Vert crack/cone opposite end, 5 = C39: Side fracture opposite ends
Start Time: 12:30PM End Time: 6:00PM Lunch (hrs): TOTAL TIME (hrs): 6.50
Technician: Hamidreza Allahdadi, ACI Certification #1354511
Mr. Huy Ton with AECOM was notified of the test result on the site.

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406713

DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Widening and Construction of Bellaire
WBS NO: (COH) _____ TIME LEFT LAB: 10:30 AM/PM
HVJ PROJECT NO: HC1610204 TIME ARRIVED SITE: 11:00 AM/PM
CLIENT NAME: Fort Bend County TIME LEFT SITE: 2:00 AM/PM
CONTRACTOR: Allgood Construction TIME ARRIVED LAB: 2:30 AM/PM
DAY: Friday LUNCH: —
DATE: February 03, 2017 TOTAL HOURS: 4.0

THE FOLLOWING ACTIVITIES WERE PERFORMED:

- ☒ SAMPLE P/U (BEAM OR CYL) ☐ FIELD DENSITY TESTING ☒ 176 cu CONC MONITOR/SAMPLING
☐ SOIL SAMPLE P/U ☐ ASPHALT TESTING ☐ CONSTRUCTION SURVEY
☐ OTHER _____

SUMMARY OF FIELD ACTIVITIES: HVJ technician arrived to the jobsite to perform the following tasks:

- Monitor the placement of a total of 25 cu. of Concrete for 8" paving @ W.B. out LN. Bellaire Blvd. From sta. 61+61 to sta. 62+20.
- HVJ technician performed slump test, Air content Percent of the concrete monitor Concrete temperature & Air temperature.
A total of 1 set of 6 6"x12" concrete cylinders was casted.

Concrete results were notified to AECOM inspector @ the jobsite Mr. Huy Ton

TECH SIGNATURE: [Signature] CERT LEVEL & ORG.: NICET II, ACI, 58102
TECHNICIAN PRINTED NAME: Marco Maldonado
INSPECTOR SIGNATURE: [Signature] INSPECTOR NAME (print): Huy Ton
DATE: 2/3/17 TIME: 2:45



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Houston, TX 77072-1010
281.933.7388 Ph
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www.hvj.com Registration No. F-000646

Report No: CTR:HOU-W6713-C1

Issue No: 2

Concrete Test Report

Client: Fort Bend County
Contract No: 13202, 13203 & 13204
Project: Widening and Construction of Bellaire
Boulevard from East Parkway
Lakes to Lakehead Lane
Project No.: HC1610204

CC: Clifford Halvorsen
Huy Ton
Loethen, Amanda
Michael Boenig

Handwritten signature: Clifford Halvorsen

Date of Issue:

2/10/2017

Mix Data

Supplier: Allied Concrete
Mix: 24167008
Compliance Strength: 3000 at age 3, 7 days
Required Strength: 3500 at age 28 days

Sample Details

Date Sampled: 02/03/17
Date Received: 02/04/17
General Location: Bellaire Blvd WB Outside Lane from Sta 61+61 to Sta 62+20
Sample Location: 8" Paving from Sta 62+20 to Sta 62+00
Curing Method: One day Field/Laboratory Cure
Field Cure Temp (°F) High: 64
Low: 56
Contractor: AllGood Construction
Ticket No.: 4507015
Sampled By: Marco Maldonado
Truck No.: 487
Weather: Cloudy

Specification: 02751 - COH Paving

	Measured	Specified
Slump (in):	ASTM C 143 5	2 to 5
Slump w/ plasticizer (in):	N/A	
Air Temp (°F):	58	≥35
Concrete Temp (°F):	ASTM C 1064 67	≤95
Air Content (%):	ASTM C 173 2.50	3 to 6
Unit Weight (pcf):	ASTM C 138 N/A	
Volume of Density Measure (ft³):	N/A	
Batch Size (yd³):	9.5	Time Batched: 11:29
Yd³ Placed:	9.5	Time Sampled: 12:38
Water Added (gal) Before: 20		Time Placed: 12:32
After: 0		Time in Truck (mins): 63

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in²)	Type of Cap	Ultimate Load (lb)	Fracture Type / Remarks	Compressive Strength (psi)
HOU-W6713-C1V1	02/06/17	3	6.00	12.00	28.27	U	177940	5	6290
HOU-W6713-C1V2	02/06/17	3	6.00	12.00	28.27	U	179820	5	6350
Average 3 Day Compressive Strength (psi)									6320
HOU-W6713-C1V3	02/10/17	7	6.00	12.00	28.27	U	208210	5	7360
HOU-W6713-C1V4	02/10/17	7	6.00	12.00	28.27	U	211120	5	7470
Average 7 Day Compressive Strength (psi)									7420
HOU-W6713-C1V5	03/03/17	28							
HOU-W6713-C1V6	03/03/17	28							
Average 28 Day Compressive Strength (psi)									
Required Strength (psi)									3500

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617, U = Unbonded ASTM C 1231

Remarks

Fracture Type: 5 = C39: Side fracture opposite ends
Start Time: 10:30AM End Time: 2:30PM Lunch (hrs): TOTAL TIME (hrs): 4.0
Technician: Marco Maldonado, NICET II Certification #111070
Mr. Huy Ton with AECOM was notified of the test result on the site.

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DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Widening and Construction of Balcon
WBS NO: (COH) _____ TIME LEFT LAB: 9:00 AM/PM
HVJ PROJECT NO: Hc1610204 TIME ARRIVED SITE: 9:45 AM/PM
CLIENT NAME: Fort Bend County TIME LEFT SITE: 10:45 AM/PM
CONTRACTOR: Allgood Construction TIME ARRIVED LAB: 11:30 AM/PM
DAY: Saturday LUNCH: -
DATE: February 04, 2017 TOTAL HOURS: 2.5

THE FOLLOWING ACTIVITIES WERE PERFORMED:

- ☒ SAMPLE P/U (BEAM OR CYL) ☐ FIELD DENSITY TESTING ☐ CONC MONITOR/SAMPLING
☐ SOIL SAMPLE P/U ☐ ASPHALT TESTING ☐ CONSTRUCTION SURVEY
☐ OTHER _____

SUMMARY OF FIELD ACTIVITIES: This technician arrived to the jobsite to pick up
1 set of 6 6"x12" concrete cylinders casted on 2/03/17
and was transported to HVJ laboratory for curing & testing.

TECH SIGNATURE: [Signature] CERT LEVEL & ORG.: NICET II, ACI
TECHNICIAN PRINTED NAME: Maria Maldonado
INSPECTOR SIGNATURE: _____ INSPECTOR NAME (print): _____
DATE: _____ TIME: _____

Harris, Britten

From: Slawinski, Stacy
Sent: Tuesday, March 14, 2017 2:57 PM
To: Harris, Britten
Cc: Peterson, Jillian
Subject: FW: Bellaire Blvd - HVJ invoice #4
Attachments: 17-070, HC1610204_Reviewed.pdf

Britten,

Please process the attached invoice.

Thanks,

Stacy Slawinski

stacy.slawinski@fortbendcountytexas.gov

281-633-7508 office

From: Ton, Huy [<mailto:Huy.Ton@aecom.com>]
Sent: Tuesday, March 14, 2017 2:50 PM
To: Slawinski, Stacy
Cc: Halvorsen, Clifford; Loethen, Amanda; Hirendra Patel; Priti Patel; Crawford, Wesley
Subject: Bellaire Blvd - HVJ invoice #4

Stacy,

Please see attached, invoice has been reviewed.

Thanks.

Huy Ton, PE

Cell: 617-818-8557

AECOM

19219 Katy Freeway

Suite 100

Houston, TX 77094, USA

AECOM
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