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Construction Material Testing & Engineering • Geotechnical • Environmental

INVOICE

Webb County Engineering Department
1620 Santa Ursula, Suite #2
Laredo, Texas 78040
Attn: Mr. Luis Perez-Garcia, P.E.

Page 2

INVOICE NO: 621-001

Purchase Order:

PROJECT : Webb County Youth Village Rehabilitation Center

DESCRIPTION	QUANTITY	UNIT COST	DATE	REPORT #	AMOUNT
Proctor	1	\$ 350.00	3-Sep-15	621-001	\$ 350.00
Densities	4	\$ 40.00	9-Sep-15	621-002	\$ 160.00
Densities	34	\$ 40.00	22-Sep-15	621-003	\$ 1,360.00
Terms: upon receipt					\$ 1,870.00

If you have any questions concerning this Statement, call: Hector Carrillo at (956) 726-9600.

Make check payable to :

Carrillo & Associates, Inc.
1219 Clark Blvd.
Laredo, Texas 78040
(956-286-4840)

THANK YOU FOR YOUR BUSINESS!



Construction Material Testing & Engineering • Geotechnical • Environmental

INVOICE

Statement Date: 10/1/2015

Webb County Engineering Department
 1620 Santa Ursula, Suite #2
 Laredo, Texas 78040
 Attn: Mr. Luis Perez-Garcia, P.E.

INVOICE NO: 621-001

Purchase Order:

PROJECT : Webb County Youth Village Rehabilitation Center

DESCRIPTION	QUANTITY	UNIT COST	DATE	REPORT #	AMOUNT
Page 2					\$ 1,870.00
Terms: upon receipt					\$ 1,870.00

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MOISTURE-DENSITY RELATIONSHIP REPORT

Webb County Engineering Department
1620 Santa Ursula, Suite #2
Laredo, Texas 78040
Attn: Mr. Luis Perez-Garcia, P.E.

Date: 9/8/2015
Report No.: 621-001

Project: Webb County Youth Village Rehabilitation Center

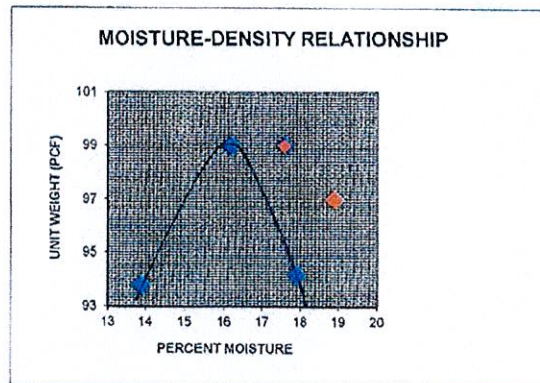
Test Method: Tex 114E, ASTM D-854, ASTM D-2216, ASTM D-2487, ASTM D-4318, ASTM D-1160

Material Source: Composite sample on-site stockpile

Sampled By: R Casares
Date Sampled: 9/3/2015
Date Tested: 9/4/2015
Software: Excel
Type of Rammer: Mechanical

Material Description: Brown Clayey Sand (SC)

Tested By: R Reyes



Atterberg Limits

Liquid Limit: 23
Plastic Limit: 15
Plastic Index: 8

Minus 200 Sieve 14.8% Passing

Corrected Maximum Dry Density: 99.0 pcf
Optimum Moisture Content: 16.2 %

Comment:



CARRILLO & ASSOCIATES, INC.
TBPE Firm Reg. No. F-7951

[Handwritten Signature]
Reviewed by: Hector Carrillo, P.E.

Cc: Job File

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& ASSOCIATES, INC.
CONSULTING ENGINEERS

Construction Material Testing & Engineering • Geotechnical • Environmental

FIELD COMPACTION TEST

TESTED FOR: Webb County Engineering Department
1620 Santa Ursula, Suite #2
Laredo, Texas 78040
Attn: Mr. Luis Perez-Garcia, P.E.

REPORT # 621-002
GAUGE # 12117
DS: 1674
MS: 576
TIME: 11:00 am - 1:30 pm
TEST DATE: 9/9/2015
TECH: Jimmy Perez

PROJECT: Webb County Youth Village Rehabilitation Center

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	6

TEST LOCATIONS: 8" Waterline 40 total feet tested

		P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS
1	5' from edge of street inside the property by turn around	001	15.9	96.1	97.1	2-A
2	10' from edge of street inside the property by turn around	001	14.7	95.2	96.2	2-A
3	20' from edge of street inside the property by turn around	001	16.2	96.9	97.9	2-A
4	40' from edge of street inside the property by turn around	001	13.1	95.8	96.8	2-A

- 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBGRADE
- 5. SOIL CEMENT
- 6. OTHER

- A. RESULTS COMPLY WITH SPECS.
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION
- D. LOW MOISTURE
- E. HIGH MOISTURE

Note: Density is in lbs/cubic foot and moisture content is a percentage of the dry weight. Percent compaction is based upon the maximum laboratory dry density.

Test Method: ASTM D6938



CARRILLO & ASSOCIATES, INC.
TBPE Firm Reg. No. F-7951

Reviewed by: Hector Carrillo, P.E.

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FIELD COMPACTION TEST

TESTED FOR:	Webb County Engineering Department 1620 Santa Ursula, Suite #2 Laredo, Texas 78040 Attn: Mr. Luis Perez-Garcia, P.E.	REPORT # 621-003	Page 1 of 5
		GAUGE # 564	
		DS: 2548	
		MS: 886	
		TIME: 10:00 AM	
PROJECT:	Webb County Youth Village Rehabilitation Center	TEST DATE: 9/22/15	
		TECH: Raul Castro	

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	12

TEST LOCATIONS: 8" Waterline

	P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS		
5	Station 0+50	1st Lift	001	15.0	104.6	100+	1-A
6	Station 0+50	2nd Lift	001	16.7	104.4	100+	1-A
7	Station 0+50	3rd Lift	001	15.5	99.4	100+	1-A
8	Station 1+50	1st Lift	001	17.4	95.7	96.7	1-A
9	Station 1+50	2nd Lift	001	16.9	94.9	95.9	1-A
10	Station 1+50	3rd Lift	001	17.5	96.4	97.4	1-A
11	Station 1+50	4th Lift	001	16.3	102.7	100+	1-A
12	Station 1+50	Final Lift	001	17.1	96.7	97.7	1-A

- | | |
|------------------|-------------------------------|
| 1. FILL MATERIAL | A. RESULTS COMPLY WITH SPECS. |
| 2. BACKFILL | B. RECOMPACTION REQUIRED |
| 3. BASE COURSE | C. TEST IS AFTER RECOMPACTION |
| 4. SUBGRADE | D. LOW MOISTURE |
| 5. SOIL CEMENT | E. HIGH MOISTURE |
| 6. OTHER | |

Note: Density is in lbs/cubic foot and moisture content is a percentage of the dry weight. Percent compaction is based upon the maximum laboratory dry density.

Test Method: ASTM D6938



CARRILLO & ASSOCIATES, INC.
 TBPE Firm Reg. No. F-7951

Reviewed by: Hector Carrillo, P.E.

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FIELD COMPACTION TEST

TESTED FOR: Webb County Engineering Department
1620 Santa Ursula, Suite #2
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Attn: Mr. Luis Perez-Garcia, P.E.

REPORT # 621-003 Page 2 of 5
GAUGE # 564
DS: 2548
MS: 886
TIME: 10:00 AM
TEST DATE: 9/22/15
TECH: Raul Castro

PROJECT: Webb County Youth Village Rehabilitation Center

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	12

TEST LOCATIONS: 8" Waterline

			P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS
13	Station 3+00	1st Lift	001	17.4	97.7	98.7	1-A
14	Station 3+00	2nd Lift	001	17.2	103.1	100+	1-A
15	Station 3+00	3rd Lift	001	18.0	99.7	100+	1-A
16	Station 3+00	4th Lift	001	18.2	97.7	98.7	1-A
17	Station 3+00	5th Lift	001	15.9	98.1	99.1	1-A
18	Station 3+00	6th Lift	001	18.1	99.3	100+	1-A
19	Station 3+00	Final Lift	001	18.0	97.7	98.7	1-A
20	Station 4+50	1st Lift	001	18.2	96.8	97.8	1-A

- 1. FILL MATERIAL
- 2. BACKFILL
- 3. BASE COURSE
- 4. SUBGRADE
- 5. SOIL CEMENT
- 6. OTHER

- A. RESULTS COMPLY WITH SPECS.
- B. RECOMPACTION REQUIRED
- C. TEST IS AFTER RECOMPACTION
- D. LOW MOISTURE
- E. HIGH MOISTURE

Note: Density is in lbs/cubic foot and moisture content is a percentage of the dry weight. Percent compaction is based upon the maximum laboratory dry density.

Test Method: ASTM D6938

9/25/15

GARRILLO & ASSOCIATES, INC.
TBPPE Firm Reg. No. F-7951



Reviewed by: Hector Carrillo, P.E.

CONSULTING ENGINEERS

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FIELD COMPACTION TEST

TESTED FOR: Webb County Engineering Department
1620 Santa Ursula, Suite #2
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Attn: Mr. Luis Perez-Garcia, P.E.

PROJECT: Webb County Youth Village Rehabilitation Center

REPORT # 621-003 Page 3 of 5
GAUGE # 564
DS: 2548
MS: 886
TIME: 10:00 AM
TEST DATE: 9/22/15
TECH: Raul Castro

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	12

TEST LOCATIONS: 8" Waterline

			P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS
21	Station 4+50	2nd Lift	001	17.2	95.9	96.9	1-A
22	Station 4+50	3rd Lift	001	16.4	95.4	96.4	1-A
23	Station 4+50	4th Lift	001	16.6	106.1	100+	1-A
24	Station 4+50	5th Lift	001	18.1	98.0	99.0	1-A
25	Station 4+50	6th Lift	001	16.1	105.0	100+	1-A
26	Station 4+50	7th Lift	001	17.5	100.5	100+	1-A
27	Station 4+50	Final Lift	001	17.0	97.9	98.9	1-A
28	Station 6+00	1st Lift	001	15.4	104.6	100+	1-A

- | | |
|------------------|-------------------------------|
| 1. FILL MATERIAL | A. RESULTS COMPLY WITH SPECS. |
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Note: Density is in lbs/cubic foot and moisture content is a percentage of the dry weight. Percent compaction is based upon the maximum laboratory dry density.

Test Method: ASTM D6938



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TBPE Firm Reg. No. F-7951

Reviewed by: Hector Carrillo, P.E.

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FIELD COMPACTION TEST

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Attn: Mr. Luis Perez-Garcia, P.E.

REPORT # 621-003 Page 4 of 5
GAUGE # 564
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TEST DATE: 9/22/15
TECH: Raul Castro

PROJECT: Webb County Youth Village Rehabilitation Center

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	12

TEST LOCATIONS: 8" Waterline

	P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS	
29	Station 6+00 2nd Lift	001	16.9	98.2	99.2	1-A
30	Station 6+00 3rd Lift	001	14.7	101.8	100+	1-A
31	Station 6+00 4th Lift	001	15.8	103.9	100+	1-A
32	Station 6+00 5th Lift	001	18.1	99.8	100+	1-A
33	Station 6+00 6th Lift	001	18.0	101.1	100+	1-A
34	Station 6+00 Final Lift	001	15.9	100.9	100+	1-A
35	Station 7+50 1st Lift	001	17.6	101.0	100+	1-A
36	Station 7+50 2nd Lift	001	16.5	100.9	100+	1-A

- | | |
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PROJECT: Webb County Youth Village Rehabilitation Center

PROCTOR REPORT #	% OPTIMUM MOISTURE	MAX. LAB. DENS., pcf	PROBE DEPTH, inches
621-001	16.2	99.0	12

TEST LOCATIONS: 8" Waterline

			P.R. #	% WATER CONT.	DRY DENS., pcf	% COMP.	REMARKS
37	Station 7+50	3rd Lift	001	16.5	96.0	97.2	1-A
38	Station 7+50	4th Lift	001	17.4	103.2	100+	1-A

- | | |
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