



RO ENGINEERING, PLLC
Engineering & Construction Management
www.ro-engineering.com

2705 E. Davis Rd.
Edinburg, TX 78542
o. (956) 513-1849
r.olivarez@ro-engineering.com

September 19, 2023

Hidalgo County Precinct 4
2812 S. Business Highway 281
1501 N. Doolittle Rd.
Edinburg, Texas 78542

Re: MEG Invoice 23-08-0080 for Hidalgo Co. Pct4 San Carlos Parking HeadStart Lot Improvement Project

Dear Mr. Nick:

I have reviewed the attached invoice 23-08-0080 submitted by Millennium Engineers Group for the San Carlos HeadStart Parking Lot Improvement Project located on 86th & Hwy 107. I find the invoice to be in general compliance with the work completed. Therefore, we recommend payment be issued.

Should you have any questions don't hesitate to contact me on (956) 513-1849.

Respectfully,

A handwritten signature in black ink, appearing to read 'René R. Olivarez'.

René R. Olivarez, P.E., CSSGB
Principal



Pharr, Texas 78577
 Harlingen, Texas 78550
 Laredo, Texas 78041

Client Address: Hidalgo County Precinct 4
 1051 N. Doolittle
 Edinburg, TX. 78542 USA

Account No.: HCP4-2019
 Project No: 01-23-19176
 Project Desc.: San Carlos Parking Lot

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
32617-2	07/18/2023	1.00	B203 - Extraction, Grad., Asph. Content	Each	\$250.00	\$250.00
32617-2	07/18/2023	1.00	B206 - Theoretical Maximum S.P.G. of Mixture	Each	\$85.00	\$85.00
32617-2	07/18/2023	1.00	B207 - Lab Density (TEX 207-F)	Each	\$75.00	\$75.00
32617-2	07/18/2023	1.00	M501 - Clerical (hourly)	Hour	\$55.00	\$55.00
32617-2	07/18/2023	1.00	M510 - Project Management (hourly)	Hour	\$105.00	\$105.00
32617-2	07/18/2023	1.00	P101 - Project Engineer (hourly)	Hour	\$135.00	\$135.00
32617-2	07/18/2023	2.00	T706 - Eng. Tech (Asphalt)	Hour	\$55.00	\$110.00
Client PO Nbr: 847671						Report Number 32617-2 for a Subtotal of: \$815.00
32617-3	07/18/2023	1.00	B203 - Extraction, Grad., Asph. Content	Each	\$250.00	\$250.00
32617-3	07/18/2023	1.00	B206 - Theoretical Maximum S.P.G. of Mixture	Each	\$85.00	\$85.00
32617-3	07/18/2023	1.00	B207 - Lab Density (TEX 207-F)	Each	\$75.00	\$75.00
32617-3	07/18/2023	1.00	M501 - Clerical (hourly)	Hour	\$55.00	\$55.00
32617-3	07/18/2023	1.00	M510 - Project Management (hourly)	Hour	\$105.00	\$105.00
32617-3	07/18/2023	1.00	P101 - Project Engineer (hourly)	Hour	\$135.00	\$135.00
32617-3	07/18/2023	2.00	T706 - Eng. Tech (Asphalt)	Hour	\$55.00	\$110.00
Client PO Nbr: 847671						Report Number 32617-3 for a Subtotal of: \$815.00
						Total for this Invoice: \$1,630.00

REMIT TO: Millennium Engineers Group, Inc.
 PO BOX 4569
 Edinburg, Texas 78540

Net 30 Days

Past Due Balances Subject to 1.5% Service Charge Per Month



Area Offices
 5804 N. Gumwood Ave. Pharr, Texas 78577 956-702-8500
 1221 E. Tyler Ave. Harlingen, Texas 78550 956-454-8832
 5918 McPherson Rd., Ste. 5 Laredo, Texas 78041 956-568-1664

Report On: Asphaltic Concrete Pavement Laboratory Testing

Lab No: 32617-3

Report No: 32617-3

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 07/31/2023

Sample Date: 07/18/2023

Sampled By: Cutberto Barbosa

By Order Of: Jose

Client PO: 847671

Location: Parking Lot

GENERAL INFORMATION

Sample Location: S. Parking Lot, 40' W - 5' N. of Southeast Corner of Parking Lot
 Material Producer: CAPA - Progreso
 Material Type: D

SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cumulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	98 - 100
3/8"	99.6	85 - 100
No. 4	59.7	50 - 70
No. 8	35.1	35 - 46
No. 30	17.4	15 - 29
No. 50	14.5	7 - 20
No. 200	5.3	2 - 7

THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.480

DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

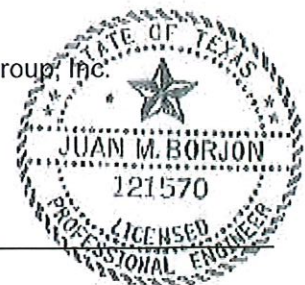
Bulk Specific Gravity: 2.372 Lab Molded Density: 95.6 percent Air Voids: 4.4 percent

DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 5.2 percent

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



07/31/2023



5804 N. Gumwood Ave. Pharr, Texas 78577 956-702-8500
1221 E. Tyler Ave. Harlingen, Texas 78550 956-454-8832
5918 McPherson Rd., Ste. 5 Laredo, Texas 78041 956-568-1664

Report On: Asphaltic Concrete Pavement Laboratory Testing

Lab No: 32617-2
Report No: 32617-2

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Location:

Report Date: 07/31/2023

Sample Date: 07/18/2023

Sampled By: Barbosa, Cutberto

By Order Of: Jose

Client PO: 847671

GENERAL INFORMATION

Sample Location: S. Parking Lot, 40' W - 5' N. of Southeast Corner of Parking Lot
Material Producer: CAPA - Progreso
Material Type: D

SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (Tex-200-F)

Sieve Size	Cumulative Passing (%)	Type D /Fine Surface Requirements (%)
1/2"	100.0	98 - 100
3/8"	99.9	85 - 100
No. 4	56.8	50 - 70
No. 8	33.9	35 - 46
No. 30	20.4	15 - 29
No. 50	16.5	7 - 20
No. 200	5.3	2 - 7

THEORETICAL MAXIMUM SPECIFIC GRAVITY OF BITUMINOUS MIXTURES (Tex-227-F)

Rice Specific Gravity (Gr): 2.483

DETERMINING DENSITY OF COMPACTED BITUMINOUS MIXTURES (Tex-207-F)

Bulk Specific Gravity: 2.376 Lab Molded Density: 95.7 percent Air Voids: 4.3 percent

DETERMINING ASPHALT CONTENT (Tex-236-F) (IGNITION METHOD)

Asphalt Content: 5.2 percent

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



07/31/2023



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r.olivarez@ro-engineering.com

September 22, 2023

Hidalgo County Precinct 4
2812 S. Business Highway 281
1501 N. Doolittle Rd.
Edinburg, Texas 78542

Re: MEG Invoice 23-06-0144 for Hidalgo Co. Pct4 San Carlos Parking HeadStart Lot Improvement Project

Dear Mr. Nick:

I have reviewed the attached invoice 23-06-0144 submitted by Millennium Engineers Group for the San Carlos HeadStart Parking Lot Improvement Project located on 86th & Hwy 107. I find the invoice to be in general compliance with the work completed. Therefore, we recommend payment be issued.

Should you have any questions don't hesitate to contact me on (956) 513-1849.

Respectfully,

A handwritten signature in black ink that reads "René R. Olivarez".

René R. Olivarez, P.E., CSSGB
Principal



Pharr, Texas 78577
 Harlingen, Texas 78550
 Laredo, Texas 78041

Client Address: Hidalgo County Precinct 4
 1051 N. Doolittle
 Edinburg, TX. 78542 USA

Account No.: HCP4-2019
Project No: 01-23-19176
Project Desc.: San Carlos Parking Lot

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>	
32179-1	06/08/2023	1.00	M500-5 - Soil Vehicle Trip (each)	Each	\$30.00	\$30.00	
32179-1	06/08/2023	0.50	M510 - Project Management (hourly)	Hour	\$85.00	\$42.50	
32179-1	06/08/2023	1.00	M511 - Report Prep. & Administration	Report	\$70.75	\$70.75	
32179-1	06/08/2023	0.50	P101 - Project Engineer (hourly)	Hour	\$120.00	\$60.00	
32179-1	06/08/2023	1.00	S100 - Atterberg Limits (each)	Each	\$80.00	\$80.00	
32179-1	06/08/2023	1.00	S104 - Percent Passing No. 200 Sieve (each)	Each	\$60.00	\$60.00	
32179-1	06/08/2023	1.00	S105 - Standard Proctor (each)	Each	\$200.00	\$200.00	
32179-1	06/08/2023	5.00	T702 - Soil Field Testing & Observation (hourly)	Hour	\$47.00	\$235.00	
Client PO Nbr: 847671						Report Number 32179-1 for a Subtotal of:	\$778.25
32179-2	06/08/2023	1.00	M500-5 - Soil Vehicle Trip (each)	Each	\$30.00	\$30.00	
32179-2	06/08/2023	0.50	M510 - Project Management (hourly)	Hour	\$85.00	\$42.50	
32179-2	06/08/2023	1.00	M511 - Report Prep. & Administration	Report	\$56.65	\$56.65	
32179-2	06/08/2023	0.50	P101 - Project Engineer (hourly)	Hour	\$120.00	\$60.00	
32179-2	06/08/2023	1.00	S100 - Atterberg Limits (each)	Each	\$80.00	\$80.00	
32179-2	06/08/2023	1.00	S104 - Percent Passing No. 200 Sieve (each)	Each	\$60.00	\$60.00	
32179-2	06/08/2023	1.00	S105 - Standard Proctor (each)	Each	\$200.00	\$200.00	
32179-2	06/08/2023	2.00	T702 - Soil Field Testing & Observation (hourly)	Hour	\$47.00	\$94.00	
Client PO Nbr: 847671						Report Number 32179-2 for a Subtotal of:	\$623.15
32180-1	06/15/2023	1.00	M500-5 - Soil Vehicle Trip (each)	Each	\$30.00	\$30.00	
32180-1	06/15/2023	0.50	M510 - Project Management (hourly)	Hour	\$85.00	\$42.50	
32180-1	06/15/2023	1.00	M511 - Report Prep. & Administration	Report	\$42.45	\$42.45	
32180-1	06/15/2023	0.50	P101 - Project Engineer (hourly)	Hour	\$120.00	\$60.00	
32180-1	06/15/2023	3.00	S108 - Nuclear Density Test (each)	Each	\$19.00	\$57.00	

REMIT TO: Millennium Engineers Group, Inc.
 PO BOX 4569
 Edinburg, Texas 78540

Net 30 Days

Past Due Balances Subject to 1.5% Service Charge Per Month



Pharr, Texas 78577
 Harlingen, Texas 78550
 Laredo, Texas 78041

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
32180-1	06/15/2023	5.00	T702 - Soil Field Testing & Observation (hourly)	Hour	\$47.00	\$235.00
Client PO Nbr: 847671						Report Number 32180-1 for a Subtotal of: \$466.95
32206-1	06/16/2023	1.00	M500-5 - Soil Vehicle Trip (each)	Each	\$30.00	\$30.00
32206-1	06/16/2023	0.50	M510 - Project Management (hourly)	Hour	\$85.00	\$42.50
32206-1	06/16/2023	1.00	M511 - Report Prep. & Administration	Report	\$42.45	\$42.45
32206-1	06/16/2023	0.50	P101 - Project Engineer (hourly)	Hour	\$120.00	\$60.00
32206-1	06/16/2023	3.00	S108 - Nuclear Density Test (each)	Each	\$19.00	\$57.00
32206-1	06/16/2023	5.00	T702 - Soil Field Testing & Observation (hourly)	Hour	\$47.00	\$235.00
Client PO Nbr: 847671						Report Number 32206-1 for a Subtotal of: \$466.95
32282-1	06/22/2023	1.00	C300 - Air Content (Pressure)	Each	\$16.00	\$16.00
32282-1	06/22/2023	4.00	C303 - Concrete Specimen (Compression)	Each	\$17.00	\$68.00
32282-1	06/22/2023	2.00	M500-1 - Vehicle Trip Charge (Concrete)	Each	\$30.00	\$60.00
32282-1	06/22/2023	1.00	M510 - Project Management (hourly)	Hour	\$85.00	\$85.00
32282-1	06/22/2023	1.00	M511 - Report Prep. & Administration	Report	\$63.10	\$63.10
32282-1	06/22/2023	1.00	P101 - Project Engineer (hourly)	Hour	\$120.00	\$120.00
32282-1	06/22/2023	6.00	T704 - Concrete Engineering Technician	Hour	\$47.00	\$282.00
Client PO Nbr: 847671						Report Number 32282-1 for a Subtotal of: \$694.10
Total for this Invoice:						\$3,029.40

REMIT TO: Millennium Engineers Group, Inc.
 PO BOX 4569
 Edinburg, Texas 78540

Net 30 Days

Past Due Balances Subject to 1.5% Service Charge Per Month

	<u>Area Offices</u>	
5804 N. Gumwood Ave.	Pharr, Texas 78577	956-702-8500
1221 E. Tyler Ave.	Harlingen, Texas 78550	956-454-8832
5918 McPherson Rd., Ste. 5	Laredo, Texas 78041	956-568-1664

Report On: Proctor - Flexible Base

Lab No: 32179-1

Report No: 32179-1

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
 1051 N. Doolittle
 Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 06/15/2023

Sample Date: 06/08/2023

Sampled By: Garcia, Arturo

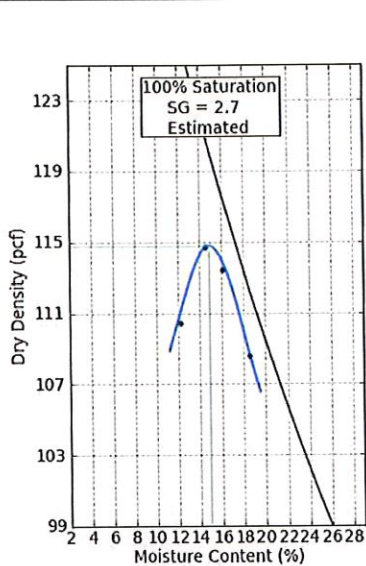
By Order Of: Jose

Client PO: 847671

Field ID: 0608-1

Location: Perales Pit
 Linn, Texas

Material: Flexible Base - Caliche



<u>% Moisture</u>	<u>Dry Density Lbs./Cu.Ft.</u>
12.2	110.4
14.5	114.7
16.1	113.4
18.5	108.6
14.9 Optimum	114.8 Maximum

	<u>Required</u>
Liquid Limit: 28	Max 40
Plastic Limit: 17	
Plasticity Index: 11	Max 12

Desc of Rammer:

Preparation Method:

Remarks: Flexible Base material meets requirements for 2014 TxDOT Item 247 Flexible Base, Grade 3 for Sieve analysis and Atterberg limits.

Test Method (As Applicable): TEX-110-E, TEX-106-E, ASTM D-698 Method-C

Respectfully Submitted,
 Millennium Engineers Group, Inc.

Juan Borjon
 Juan Borjon, P.E.



06/15/2023



5804 N. Gumwood Ave. Pharr, Texas 78577 956-702-8500
1221 E. Tyler Ave. Harlingen, Texas 78550 956-454-8832
5918 McPherson Rd., Ste. 5 Laredo, Texas 78041 956-568-1664

Report On: Proctor - Soils

Lab No: 32179-2

Report No: 32179-2

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 06/15/2023

Sample Date: 06/08/2023

Sampled By: Garcia, Arturo

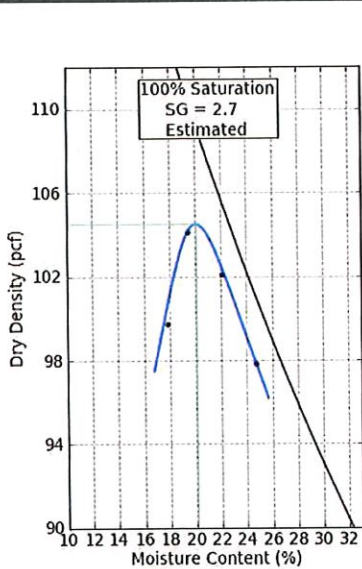
By Order Of: Jose

Client PO: 847671

Field ID: 0608-2

Location: Parking Area
East Side

Material: Subgrade



% Moisture		Dry Density Lbs./Cu.Ft.	
17.8		99.70	
19.4		104.1	
22.1		102.1	
24.7		97.80	
20.1	Optimum	104.5	Maximum

Sieve	% Passing
3/4 in	100
No. 4	84
No. 10	72
No. 40	51
No. 200	37

Color: Brown
Description: Clayey Sand with Gravel
Texture: Gravelly Sandy Loam
<u>Required</u>
Liquid Limit: 50
Plastic Limit: 23
Plasticity Index: 27 Max 20
Group Symbol: SC

Desc of Rammer: Manual

Preparation Method: Moist

Remarks: Recommend the addition of hydrated lime at a rate of 4% by dry weight meeting the requirements of TxDOT Item 260 in the 2014 Standard Specifications.

Test Method (As Applicable): ASTM D 1140, ASTM D 2487, ASTM D 4318, ASTM D-698 Method-B

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



06/15/2023



	<u>Area Offices</u>	
5804 N. Gumwood Ave.	Pharr, Texas 78577	956-702-8500
1221 E. Tyler Ave.	Harlingen, Texas 78550	956-454-8832
5918 McPherson Rd., Ste. 5	Laredo, Texas 78041	956-568-1664

Report On: Soil Densities

Lab No: 32180-1

Report No: 32180-1

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 06/16/2023

Sample Date: 06/15/2023

Sampled By: Medoua, Tinisha

By Order Of: Jose

Client PO: 847671

Location: Middle Parking Lot

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
32179-2	06/08/2023	20.1	104.5	Brown / Clayey Sand with Gravel

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	98	18.1	22.1

Material: Subgrade

Test No.	Depth Inches	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass Fail
1	6	50' E - 20' N off SWC	124.6	18.4	105.2	32179-2	1	100.7	Pass

Gauge No.: 35885 Daily Standard Counts: 06/15/2023 DS: 1782 MS: 659
Test Methods: ASTM D 6938

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



06/16/2023



	<u>Area Offices</u>	
5804 N. Gumwood Ave.	Pharr, Texas 78577	956-702-8500
1221 E. Tyler Ave.	Harlingen, Texas 78550	956-454-8832
5918 McPherson Rd., Ste. 5	Laredo, Texas 78041	956-568-1664

Report On: Soil Densities

Lab No: 32206-1

Report No: 32206-1

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 06/19/2023

Sample Date: 06/16/2023

Sampled By: Delgado, Roel

By Order Of: Jose

Client PO: 847671

Location: East Side Parking Lot

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
32179-2	06/08/2023	20.1	104.5	Brown / Clayey Sand with Gravel

Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95	18.1	22.1

Material: Subgrade, 1st and Final Lift
Depth Inches

Test No.	Depth	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass / Fail
1	6	East side Parking lot 60' E - 13'N of SEC of Head Start Building	122.0	18.2	103.2	32179-2	1	98.8	Pass
2	6	East side Parking lot 80' E - 60'N of SEC of Head Start Building	127.4	18.6	107.4	32179-2	1	102.8	Pass
3	6	16' W - 22' S of NEC of Parking Lot	125.4	21.2	103.5	32179-2	1	99.0	Pass

Gauge No.: 4292 Daily Standard Counts: 06/16/2023 DS: 2055 MS: 466
Test Methods: ASTM D 6938

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



06/19/2023

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.



5804 N. Gumwood Ave. Pharr, Texas 78577 956-702-8500
1221 E. Tyler Ave. Harlingen, Texas 78550 956-454-8832
5918 McPherson Rd., Ste. 5 Laredo, Texas 78041 956-568-1664

Report On: Air Content & Slump

Lab No: 32282-1

Report No: 32282-1

Project No: 01-23-19176 Acct. No.: HCP4-2019

Page 1 of 1

Client: Hidalgo County Precinct 4
1051 N. Doolittle
Edinburg, TX 78542

Project: San Carlos Parking Lot

Report Date: 06/23/2023

Sample Date: 06/22/2023

Sampled By: Palma, Sebastian

By Order Of: Jose

Client PO: 847671

Field ID: 01-23-19176

Location: Paving Area

Material: Set #1=4(4x8)Cylinders

Spec Nbr	Sampled At	Truck No	Total Yards	Ticket No	Water Added	Mix Code	Time Sampled	Amb Temp (°F)	Mix Temp (°F)	Slump (In.)	Air %
1	Truck	365	10	587684	No	3500CG1	09:13 am	86	92	6.00	1.30

Placement Location: North Paving Area

Date Tested: 06/22/2023

Source: CRM

Plant:

Remarks: On 6/23/2023, a representative of Millennium Engineers Group, Inc. was dispatched to the project site to pick up the specimens cast on the previous day. The specimens were transported to the laboratory where they were stripped from their forms, properly labeled, and placed in curing tanks in preparation for compressive strength testing intervals of 7 and 28 days.

Test Method (As Applicable): Unless noted, concrete was sampled and tested in accordance with ASTM C172, C143, C231 or C173, C1054 and C138. Compressive strength tests per ASTM C39, C31.

Respectfully Submitted,
Millennium Engineers Group, Inc.

Juan Borjon
Juan Borjon, P.E.



06/23/2023