

September 4, 2018

Commissioner Joseph Palacios
Hidalgo County Precinct 4
1051 N. Doolittle Rd
Edinburg, TX 78542

**RE: 10th Street Extension - Work Authorization No. 2 - Limits: SH 107 to FM 1925
PO#700265 - L&G Project#120902**

Dear Commissioner Palacios:

Attached for your approval is our invoice for services rendered under this work authorization for the month of August 2018.

Attached to this progress report is:

- L & G's Invoice
- Work Schedule

The following is the status for the Work Authorization and Supplemental's listed below:

Work Authorization#2 – Preparation of the PS&E

- 100% complete
- *Suppl. #1 to Work Auth. #2 – Additional Traffic Signal & Two Traffic Warrants*
 - 100% complete
- *Suppl. #2 to Work Auth. #2 – Phase III Right-of-Way Acquisition*
 - 100% complete
- *Suppl. #3 to Work Auth. #2 – Provide Compensable Utility Oversight*
 - 100% complete
- *Suppl. #4 to Work Auth. #2 – Abatement and Demolition of Guardhouse and Wall*
 - 100% complete

Below is a narrative for the Supplemental identified below:

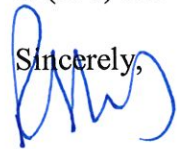
- **Suppl. #5 to Work Auth. #2 – Construction Management, Construction Inspection and Construction Material Testing**

		% Complete
FC 32001 – CONSTRUCTION INSPECTION		
L&G inspector is on the project on a daily basis monitoring construction progress and making sure work is being performed in compliance with TxDOT and LGPP requirements. L&G continues to coordinate with TxDOT on the on-going progress of project. The contractor is currently working on Roadway Excavation and Embankment, placement of Drainage Structures, Lime treatment of Subgrade, MC-30, Seal Coat and HMA CP placement.	L&G	40%

FC 32002 – CONSTRUCTION MANAGEMENT		
L&G continues to process a monthly estimate to be used for monthly submittals to Hidalgo County Pct #4 and TxDOT. L&G continues to maintain project record in compliance with LGPP requirements. L&G continues to review and respond to RFI's submitted by contractor. L&G continues to discuss construction issues with Contractor in efforts to resolve issues and avoid delays to progress of work.	L&G	40%
FC 32030 – CONSTRUCTION QC/QA		
B2Z has reviewed project files for completeness and organization. B2Z has obtained and reviewed a copy of the project Sampling and Testing Guide Schedule. B2Z has visited the project to inspect barricades and bulletin board. B2Z makes notes of items for discussion. Discussions are held between B2Z and L&G Construction Group/Inspector to discuss findings. See B2Z's progress report for additional details.	B2Z	40%
FC 33004 – MATERIAL TESTING		
L&G lab has sampled and tested flex base material. Material for sand backfill and Seal Coat Aggregate was sampled and tested. L&G has sampled and tested HMA/CP as well to check for compliance.	L&G	40%

Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 585-1909.

Sincerely,



Ricardo Gallaga, P.E.
Project Manager
Attachments

L &G Consulting Engineers Inc
2100 W. Expressway 83
Mercedes, TX 78570
(956)565-9813 Fax (956)565-9018

INVOICE#: 11327114
INVOICE DATE: 8/31/2018

BILL TO: 84
Hidalgo County Pct. #4
c/o Commissioner Joseph Palacios
1051 N. Doolittle Rd.
Edinburg, TX 78541

JOB: 120902
10th Street Extension Project
WA#2, PO#700265
C-12-126-10-16

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of August 2018.						
Work Authorization #2 - Preparation of the PS&E						
15001-Field Survey	45,001.00	45,001.00		45,001.00	100.0	-
15010-Field Srvy/SUB	80,000.00	80,000.00		80,000.00	100.0	-
16001-Rdwy Dsgn	799,217.00	799,217.00		799,217.00	100.0	-
16002-Rdwy Dsgn-Outfall	48,000.00	48,000.00		48,000.00	100.0	-
16205-Sign,Marki,Dsg	59,721.00	59,721.00		59,721.00	100.0	-
16250-Sig1 Dsgn-SUB	60,281.00	60,281.00		60,281.00	100.0	-
16308-Permted Utility	95,000.00	95,000.00		95,000.00	100.0	-
	<u>1,187,220.00</u>	<u>1,187,220.00</u>	<u>0.00</u>	<u>1,187,220.00</u>	<u>100.0</u>	<u>-</u>
Supplemental #1 to Work Authorization #2 - Additional Traffic Signal & Two Warrants						
16205-Signal Design	5,001.00	5,001.00		5,001.00	100.0	-
16250-Signal Dsgn/SUB	24,977.60	24,977.60		24,977.60	100.0	-
	<u>29,978.60</u>	<u>29,978.60</u>	<u>0.00</u>	<u>29,978.60</u>	<u>100.0</u>	<u>-</u>
Supplemental #2 to Work Authorization #2 - Phase III Right-of-Way Acquisition						
6000-ROW Acquisition	380,800.00	380,800.00		380,800.00	100.0	-
60100-Title Services	38,400.00	38,400.00		38,400.00	100.0	-
60200-Appraisal Serv	32,000.00	32,000.00		32,000.00	100.0	-
60210-Appraisal Srv/SUB	144,000.00	144,000.00		144,000.00	100.0	-
60300-Appraisal Rvw	22,400.00	22,400.00		22,400.00	100.0	-
60310-Apprsal Rvw/SUB	28,800.00	28,800.00		28,800.00	100.0	-
60400-Parcel Negtion	224,000.00	224,000.00		224,000.00	100.0	-
60500-Clsng Srvs Fee	12,800.00	12,800.00		12,800.00	100.0	-
Sub Total	<u>883,200.00</u>	<u>883,200.00</u>	<u>0.00</u>	<u>883,200.00</u>	<u>100.0</u>	<u>-</u>
Supplemental #3 to Work Authorization #2 - Provide Compensable Utility Oversight						
60101-Comp Utly Mgmt	135,000.00	135,000.00		135,000.00	100.0	-
Supplemental #4 to Work Authorization #2 - Abatement and Demolition of Guardhouse and Wall						
12006-Asbestos Abate	10,066.94	10,066.94		10,066.94	100.0	-
12050-Abatement/ SUB	6,870.00	6,870.00		6,870.00	100.0	-
12060-Asbestos Abate/ SUB	27,940.00	27,940.00		27,940.00	100.0	-
13002-ROW Map	5,018.88	5,018.88		5,018.88	100.0	-
13020-ROW Map/ SUB	3,189.00	3,189.00		3,189.00	100.0	-
15007-Sub-Surface Utility Eng.	5,018.88	5,018.88		5,018.88	100.0	-
15070-Sub-Surface Utility Eng/SUB	19,752.00	19,752.00		19,752.00	100.0	-
15008-Dsgn Chnge Cal	40,085.14	40,085.14		40,085.14	100.0	-
Sub Total	<u>117,940.84</u>	<u>117,940.84</u>	<u>0.00</u>	<u>117,940.84</u>	<u>100.0</u>	<u>-</u>

L &G Consulting Engineers Inc
2100 W. Expressway 83
Mercedes, TX 78570
(956)565-9813 Fax (956)565-9018

INVOICE#: 11327114
INVOICE DATE: 8/31/2018

BILL TO: 84
 Hidalgo County Pct. #4
 c/o Commissioner Joseph Palacios
 1051 N. Doolittle Rd.
 Edinburg, TX 78541

JOB: 120902
 10th Street Extension Project
 WA#2, PO#700265
 C-12-126-10-16

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Supplemental #5 to Work Authorization #2 - Construction Management, Construction Inspection and Construction Material Testing						
32001-Construction Inspection	599,040.96	209,664.34	29,952.04	239,616.38	40.0	359,424.58
32003-Construction Management	316,287.90	110,700.77	15,814.39	126,515.16	40.0	189,772.74
32030-Construction QC/QA	79,230.36	27,730.63	3,961.51	31,692.14	40.0	47,538.22
33004-Material Testing	186,639.37	65,323.78	9,331.97	74,655.75	40.0	111,983.62
	<u>1,181,198.59</u>	<u>413,419.52</u>	<u>59,059.91</u>	<u>472,479.43</u>	40.0	<u>708,719.16</u>
TOTAL:	<u><u>3,534,538.03</u></u>	<u><u>2,766,758.96</u></u>	<u><u>59,059.91</u></u>	<u><u>2,825,818.87</u></u>	79.9	<u><u>708,719.16</u></u>

ORIGINAL CONTRACT SUM \$ 1,187,220.00
 CHANGE BY CHANGE ORDER \$ 2,347,318.03
 CONTRACT SUM TO DATE \$ 3,534,538.03
 TOTAL COMPLETED TO DATE \$ 2,825,818.87
 LESS PREVIOUS INVOICES \$ 2,766,758.96
 CURRENT PAYMENT DUE \$ 59,059.91

Marion G. Marin
 PROJECT MANAGER'S SIGNATURE
By Jacinto Garza

EXHIBIT "C"
WORK SCHEDULE
10th Street Extension - WA #2
 From SH 107 to FM 1925 (Monte Christo Rd)
 Length = 2.5 miles

TASK AND DESCRIPTION	FIRM		2018												2019												2020				2021						
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
10th Street Extension (SH 107-FM1925)																																					
WA #1: EA, PI, Schematic & ROW Map																																					
Advertise & Conduct Public Meeting	L&G	COMP																																			
TxDOT Schematic Approval	TxDOT	COMP																																			
TxDOT ROW Map Approval	TxDOT	COMP																																			
Environmental Decision	TxDOT	COMP																																			
WA #2: Design Survey & PS&E																																					
Design Survey	DLS	COMP																																			
Permitted Utility Coordination	L&G	COMP																																			
Outfall Coordination with HCDD #1	L&G	COMP																																			
30% PS&E Completion	L&G	COMP																																			
60% PS&E Completion	L&G	COMP																																			
90% PS&E Completion	L&G	COMP																																			
95% PS&E Completion	L&G	COMP																																			
TxDOT Review	TxDOT	COMP																																			
100% Mylars Completion	L&G	COMP																																			
TxDOT Approval	TxDOT	COMP																																			
TXDOT RELEASE OF ROW																																					
ROW Release	TxDOT	COMP																																			
WA #3: ROW Acq. (SH 107 - Schunior)*																																					
ROW Acquisition (Approx. 64 parcels)																																					
ROW Acquisition Process	L&G	COMP																																			
Construction Mngmnt - Bid Analysis & Contract Award																																					
Receive TxDOT approval to advertise including pre-bid & DBE Conf	TxDOT	COMP																																			
Advertise (1st) & post in civcast (3 weeks prior to bid opening)	Cty/L&G	COMP																																			
Advertise (2nd) & post in www.civcastusa.com	Cty/L&G	COMP																																			
Advertise (3rd) & post in www.civcastusa.com	Cty/L&G	COMP																																			
Conduct DBE conference & Pre-Bid Meeting	Cty/L&G	COMP																																			
Open Bids (verify apparent low bidder)(7 weeks prior to letting)	Cty/L&G	COMP																																			
Submit Bids to TxDOT (low bidder concurrence)(6 wks to letting)	Cty/L&G	COMP																																			
Receive concurrence from TxDOT	TxDOT	COMP																																			
Recommend to County; Award to Low Bidder	L&G	COMP																																			
Award Contract at Commissioner's Court (Letting Date)	County	COMP																																			
Construction Management - Contract Execution																																					
Assist the County with Execution of the Contract	L&G	COMP																																			
Construction Operations (SH 107 - FM 1925)																																					
Construction Begins (Start Date: February 2018)	County																																				

August 26, 2018

Mr. Ricardo Gallaga, P.E.
Project Manager ~ L&G Consulting Engineers, Inc.
2100 W. Expressway 83
Mercedes, Texas 78570

**RE: Work Authorization #45 for Construction Inspection & CMT
10th Street Construction Management
Invoice No. 3323 (Job #152780)
CSJ: 0921-02-300**

Dear Mr. Gallaga:

Attached for your review and approval is our invoice for services rendered during the month of June 2018 on the subject referenced project.

The following is attached:

- Invoice No. 3345 (Job #152780)

The following is a narrative of the progress for this period.

TASK	
(1) FC 32010 – Construction Management (B2Z Engineering) QC/QA Construction Inspection QC/QA Material Testing	<u>% Complete = 40.0%</u>
<p>Updated – B2Z conducted a detailed review of the below referenced file folders produced by L&G and offer the following:</p> <p><u>Project Files:</u> B2Z has continued review of the up-to-date project files and has found them to be well organized for effective project management tracking items activity and general project requirements.</p> <p><u>On-Site Inspection (QC/QA):</u></p> <p><u>Field Visit (8-6-18)</u> Drove the project with Chief Inspector Joe Garcia and noted the following:</p> <ul style="list-style-type: none">• Drainage –<ul style="list-style-type: none">➢ Due to irrigation of Orchards on the east side north of Chapin, there was partial flooding along inlet line (between 2nd and 4th Inlets north of Chapin). Change Order will provide perforated underdrain to address condition and drain water into drainage system.➢ Trunk Line – Contractor had been installing trunk line north of canal (located around Sta. 192) on recent visits and had completed trunkline installation north to Monte Cristo.➢ Contractor was installing Ty “CC” inlets between canal and Rogers Rd. on the east side.➢ Inlets Issues – Still seeing some inlets with damaged or broken parts, and care should be exercised during construction to prevent incidental damage.• Subgrade – Contractor had mixed and pulverized limed subgrade on west side from SH 107 to where curb and gutter construction had previously started full width at approx. 106+50 on initial phase northward toward	

Schunior. There was no activity to compact when observed although a portion had been water sprayed. Mentioned to inspector that material needed to be compacted since it had already gone through mellowing period and remixed.

- Flex Base –
 - Since last visit, the top 4" had been stabilized, compacted and primed from just north of Schunior (approx. Sta. 128) to inlets on south side of bridge at approx. Sta. 139+40.
 - Since last visit, the bottom 6" had been compacted from just north of Russell Rd at approx. Sta. 180+15 to approx. Sta. 191+60 just south of canal.
- Curb and Gutter –
 - Curb and gutter construction on-going on last visit on west side north of Schunior had been completed on both sides approx. between Station 127+54 and 139+40 at inlets just south of the bridge.
 - Contractor was setting up stringline on west side to construct C&G from first inlet just north of Russell to approx. Sta. 191.
- Hot Mix (1 ½" base course) – Since last visit, additional paving had been done at the following locations:
 - South of Schunior: Remaining portion just south of Schunior had been paved from approx. Sta. 122+50 to approx. Sta. 124+75 where C&G construction had ended.
 - North of Bridge: Paving had been done from north of bridge from about Sta. 143+50 to approx. Sta. 160+50 south of Chapin.
- Bridge (West Main Drain Ditch) –
 - Riprap – The riprap work at the bridge abutments had been completed.
 - Beams/Panels – The beams and the precast panels had been placed. Panels were not installed between the outer beams since this part of the bridge has the traffic rail and deck will be formed. Visual inspection indicated that these elements had approval stamps (some hard to see, smeared appearance).
 - Overhangs – Contractor was forming the overhangs.
- Erosion/Silt Control Devices – Need to install or maintain silt control logs at inlets and rock filter dams in canals.

Field Visit (8-14-18) – Drove the project and visited with Joe Garcia, project Chief Inspector, and noted the following:

- Drainage – Contractor was installing a lateral into an inlet and grouting the connection on east side just south of Monte Cristo.
- Subgrade –
 - Contractor had compacted the subgrade north of SH 107 on west side noted on previous inspection on 8-6-18. Inspector mentioned that density testing had passed.
 - Contractor had limed west portion of the subgrade from Sta. 191 to around Sta. 203 just south of Rogers and the section was in mellowing stage. Utility poles in the middle of the roadway are pending removal before work on the east half portion of the roadway can proceed.
- Flex Base
 - The raw 6" bottom base course had been spread on subgrade section (north of SH 107, west side) mentioned above.
 - The 6" bottom base course had previously been spread full width and compacted on west portion (east portion had been drying out) to around Sta. 165, but now had been delivered and spread full width from north of Chapin to around Sta. 168+50. The underdrain pipe work on the east side was pending passing of the required aggregate gradation.
 - The raw 4" top course was being spread out and balanced just north of Russell from approx. Sta. 180+15 to around Sta. 190+75.

- Curb and Gutter – Contractor had started doing C&G north of Chapin on the west side where they previously left off at Sta. 161, and had stringline set to tie-in at inlet at Sta. 168+50. Mentioned to inspector that curing compound was light in some areas and needed better coverage.
 - Since last visit, contractor had done the curb and gutter on both sides from north of Russell at Sta. 180+15 to approx. Sta. 190+75 just south of canal.
- Seal Coat – Seal Coat had just been applied from north of Schunior at Sta. 128 to south of the bridge at around Sta. 139. The material had been applied heavy and workers were removing excess material along the curb and gutter. Discussed with project inspector, who told me they had swept but were going to re-sweep surface before paving the area later in the morning.
- Hot Mix (1 ½” base course) – Contractor was getting ready to hot mix area noted above where seal coat had been applied.
- Bridge (West Main Drain Ditch) – Forming of the overhangs had been completed, but there was no construction activity on the bridge.
- Erosion/Silt Control Devices – Maintenance on erosion logs had been done on the project since last visit and silt fences were installed around some drainage structures. Rock filter dams are still in need of maintenance.

➤

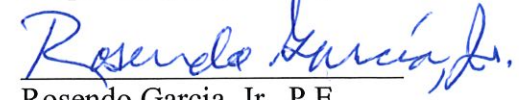
Updated – B2Z has noted the following review of records:

General: Observed project operations this month subject to testing that include trench backfill, lime treated subgrade, cement treated flex base, curb and gutter, seal coat aggregate, hot mix paving, and bridge related work. Files are pending test reports on this work and should be available for review by the end of the month. Prior to receiving the official lab reports, the inspector has preliminary reports indicating status of testing on the roadbed related operations.

- Trench Backfill Densities –
 - File has some new test reports for Irrigation and Drainage work all sampled on 3-2-18 and reported on 5-25-18 for Reports R015, R016, R017, R018, and R019. Some test locations on these reports have failing densities due to moisture below optimum % moisture (tolerance on report is 0 to +3). The proctor no's referenced on these reports are “TB MD1” and “TB MD2” requiring 98% compaction on both. Previous reports on file for backfill densities show “TB MD1” requiring 95% and, “TB MD2” requiring 98%. However, as noted last month was not able to find the Proctor information on file associated with these reports.
- Concrete – No new reports to address pending results noted in July 2018 report.
- Underdrain Pipe Filter Aggregate (Item 556) – Aggregate has yet to pass gradation requirement for use on this change order item.
- Hot Mix – Additional paving has been done on the project this month, but there are no reports on file as also noted in July 2018 report.
- Bridge Beams/Panels – Had approval stamps although some blurry and hard to see.
- Material On Hand (MOH) – For July 2018 estimate period, “Str steel misc non-bridge”, “Handrail-Ty PR 1”, drainage structures (inlets/jct boxes) and perforated underdrain pipe were received with proper invoice and unit price support. Material deducted from MOH and this estimate was for bridge items (bearing pads and beams), drainage items (pipe and inlets), wire mesh (valley gutter and curb ramps and sidewalks), curb ramps (red tile brick), and Irrigation pipe (PVC and low head pressure). Total MOH decrease was for \$162,452.05.

Should you have any questions regarding this submittal, please do not hesitate to email me at Rosendo@B2ZEng.com or call me at (956) 900-4361.

Respectfully Submitted,



Rosendo Garcia, Jr., P.E.

Senior Construction Manager – B2Z Engineering, LLC

8-21-18



P.O. Box 2724
McAllen, Tx. 78502
(956) 585-3773

Invoice

Date	Invoice #
8/26/2018	3345

Please send remittance with copy of invoice to:

Attn: Mrs. Aisha Gonzalez
P.O. Box 2724
McAllen, Tx. 78502

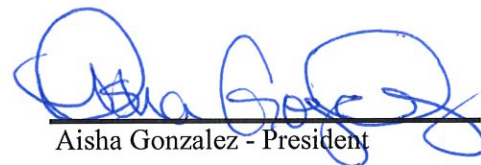
Bill To: L&G Engineering
2100 W. Expressway 83
Mercedes, Tx. 78570

Project Info:
10th Street Construction Inspection & CMT
JOB: 152780
Billing Period 7/27/18 - 8/26/18

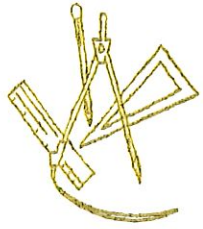
CSJ#0921-02-300

Description	Contract Amount	x	% Complete	Current Amount Due
FC 32010 - Construction Management ~ Sub	\$79,230.36		40.00%	\$3,961.51
			Previously Invoiced	\$27,730.63

TOTAL PREVIOUSLY INVOICED	\$27,730.63
TOTAL DUE THIS INVOICE	\$3,961.51


Aisha Gonzalez - President





L&G Engineering

Transportation Consultants

September 4, 2018

Honorable Joseph Palacios
Hidalgo County Commissioner Pct. #4
1051 N. Doolittle
Edinburg, Texas 78542

ATTENTION: Ms. Maria Mayorga

Reference: 10th Street Extension Project – L&G Consulting Engineers Test Reports

Dear Commissioner:

I have reviewed the attached L&G Consulting Engineers Test Reports and billed with invoice number 11327114 for 10th Street Extension Project. I hereby certify that the testing results meet, exceed or comply with project specifications and/or are in accordance with TxDOT's sampling and testing criteria.

Should you have any questions, please call me at (956) 595-1909.

Respectfully,

Ricardo Gallaga Jr., P.E.
Project Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

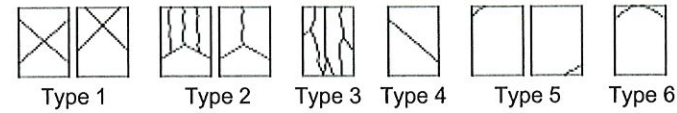
L&G Project Number: E130181
 L&G Report Number: R105-56
 Sample Date: 05/25/2018
 Date Reported: 08/17/2018

Page 1 of 1

Placement Location: Bent No. 2
 Mix ID: TxDOT CLC Supplier: CEMEX
 Specified Strength: 3,600 P.S.I. @ 28 days
 Specified Slump: 5 MAX Slump: 3.5"
 Specified Air Content: 3-5% Air Content: 3.5%
 Weather Conditions: Clear/Hot Air Temp.: 91°f
 Time Batched: 11:20 am Time Sampled: 12:05 pm Concrete Temp.: 92°f
 Plant Ticket No: 54765061 Truck No: 10033434 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
12	A	05/29/2018	4	63,320	6.000	28.274	Type 3	2,240	2,240	62.22%
	B	06/01/2018	7	69,170	6.000	28.274	Type 3	2,450	2,450	68.06%
	C	06/22/2018	28	99,515	6.000	28.274	Type 2	3,520	3,520	97.78%
	D	07/20/2018	56	109,735	6.000	28.274	Type 4	3,880	3,880	107.78%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

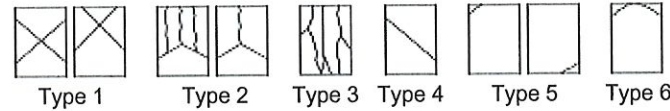
L&G Project Number: E130181
 L&G Report Number: R148-28
 Sample Date: 06/27/2018
 Date Reported: 07/31/2018

Page 1 of 1

Placement Location: Back Wall / Abutment Sta. 142+00
 Mix ID: TXDOT Class C Supplier: CEMEX
 Specified Strength: 3,600 P.S.I. @ 28 days
 Specified Slump: Max 5 Slump: 7.0"
 Specified Air Content: 3 to 5 % Air Content: 2.0%
 Weather Conditions: Clear/Hot Air Temp.: 88°f
 Time Batched: 11:00 am Time Sampled: 11:40 am Concrete Temp.: 90°f
 Plant Ticket No: 54777501 Truck No: 10064434 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
21	A	07/04/2018	7	74,950	6.000	28.274	Type 5	2,650		73.61%
	B	07/04/2018	7	77,835	6.000	28.274	Type 3	2,750	2,700	76.39%
	C	07/25/2018	28	93,655	6.000	28.274	Type 2	3,310	3,310	91.94%



Remarks/Comments:

**Slump out of tolerance **One Specimen held for 56 day testing.

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

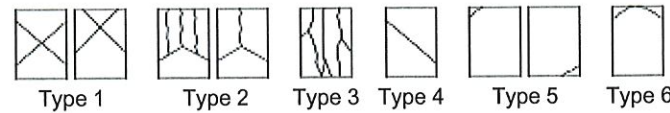
L&G Project Number: E130181
 L&G Report Number: R156-28
 Sample Date: 07/06/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: Curb and Gutter Sta. 151+00 and Sta. 142+00.
 Mix ID: TxDot Class A Supplier: J-III Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: Max 2 Slump: 3.0"
 Specified Air Content: as approved Air Content: 2.0%
 Weather Conditions: Clear/Hot Air Temp.: 75°f
 Time Batched: 6:31 am Time Sampled: 7:00 am Concrete Temp.: 90°f
 Plant Ticket No: 442414 Truck No: 158 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
22	A	07/13/2018	7	113,000	6.000	28.274	Type 3	4,000		133.33%
	B	07/13/2018	7	116,765	6.000	28.274	Type 2	4,130	4,060	137.67%
	C	08/03/2018	28	143,020	6.000	28.274	Type 4	5,060		168.67%
	D	08/03/2018	28	146,070	6.000	28.274	Type 5	5,170	5,110	172.33%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

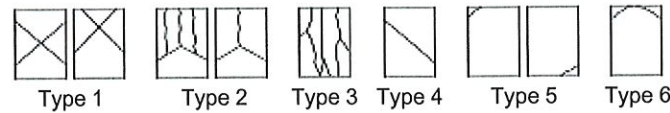
L&G Project Number: E130181
 L&G Report Number: R157-28
 Sample Date: 07/06/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: Curb and Gutter Sta. 151+00 and Sta. 142+00.
 Mix ID: [x]DOT Class A Supplier: J-III Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: Max 2 Slump: 2.5"
 Specified Air Content: as approved Air Content: 1.0%
 Weather Conditions: Clear/Hot Air Temp.: 85°F
 Time Batched: 10:03 am Time Sampled: 10:30 am Concrete Temp.: 90°F
 Plant Ticket No: 442432 Truck No: 180 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
23	A	07/13/2018	7	108,125	6.000	28.274	Type 6	3,820		127.33%
	B	07/13/2018	7	101,550	6.000	28.274	Type 3	3,590	3,710	119.67%
	C	08/03/2018	28	136,140	6.000	28.274	Type 4	4,810		160.33%
	D	08/03/2018	28	134,560	6.000	28.274	Type 4	4,760	4,790	158.67%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

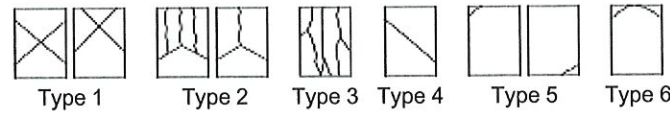
L&G Project Number: E130181
 L&G Report Number: R162-28
 Sample Date: 07/11/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: Rip Rap Abut. #1 Sta. 142+00.
 Mix ID: TXDOT Class A Supplier: CEMEX
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: Max 5 Slump: 6.5"
 Specified Air Content: as approved Air Content: 3.3%
 Weather Conditions: Hot/Sunny Air Temp.: 99°F
 Time Batched: 3:25 pm Time Sampled: 4:20 pm Concrete Temp.: 89°F
 Plant Ticket No: 44714198 Truck No: 10036003 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
24	A	07/18/2018	7	79,955	6.000	28.274	Type 3	2,830		94.33%
	B	07/18/2018	7	81,950	6.000	28.274	Type 2	2,900	2,860	96.67%
	C	08/08/2018	28	106,420	6.000	28.274	Type 5	3,760		125.33%
	D	08/08/2018	28	114,150	6.000	28.274	Type 6	4,040	3,900	134.67%



Remarks/Comments:

** Slump out of tolerance

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

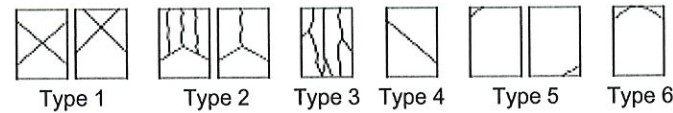
L&G Project Number: E130181
 L&G Report Number: R164-28
 Sample Date: 07/16/2018
 Date Reported: 07/23/2018

Page 1 of 1

Placement Location: Curb and Gutter Sta. 129+30 West Side
 Mix ID: [x]DOT Class A Supplier: JIII Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: 2.5 MAX Slump: 1.0"
 Specified Air Content: N/A Air Content: 1.2%
 Weather Conditions: Sunny/Hot Air Temp.: 80°f
 Time Batched: 7:07 am Time Sampled: 7:55 am Concrete Temp.: 81°f
 Plant Ticket No: 312979 Truck No: 172 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
25	A	07/23/2018	7	145,070	6.000	28.274	Type 4	5,130		171.00%
	B	07/23/2018	7	152,220	6.000	28.274	Type 4	5,380	5,260	179.33%
	C	08/13/2018	28	181,635	6.000	28.274	Type 2	6,420		214.00%
	D	08/13/2018	28	184,160	6.000	28.274	Type 5	6,510	6,470	217.00%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

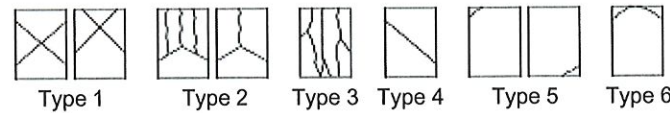
L&G Project Number: E130181
 L&G Report Number: R166-28
 Sample Date: 07/17/2018
 Date Reported: 07/23/2018

Page 1 of 1

Placement Location: Curb and Gutter Sta. 139+00 East Side
 Mix ID: [x]DOT Class A Supplier: Jill Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: 2.5 MAX Slump: 1.5"
 Specified Air Content: N/A Air Content: 1.7%
 Weather Conditions: Dark/Humid Air Temp.: 70°f
 Time Batched: 5:11 am Time Sampled: 6:00 am Concrete Temp.: 83°f
 Plant Ticket No: 313025 Truck No: 179 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
26	A	07/24/2018	7	153,835	6.000	28.274	Type 6	5,440		181.33%
	B	07/24/2018	7	138,650	6.000	28.274	Type 6	4,900	5,170	163.33%
	C	08/14/2018	28	175,465	6.000	28.274	Type 3	6,210		207.00%
	D	08/14/2018	28	183,635	6.000	28.274	Type 3	6,490	6,350	216.33%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
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 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

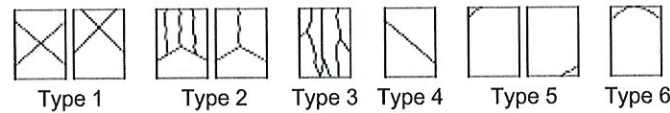
L&G Project Number: E130181
 L&G Report Number: R167-28
 Sample Date: 07/17/2018
 Date Reported: 07/23/2018

Page 1 of 1

Placement Location: Curb and Gutter Sta. 134+00 East Side
 Mix ID: TXDOT Class A Supplier: Jill Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: 2.5 MAX Slump: 1.0"
 Specified Air Content: N/A Air Content: 1.7%
 Weather Conditions: Sunny/Warm Air Temp.: 72°f
 Time Batched: 6:44 am Time Sampled: 7:30 am Concrete Temp.: 84°f
 Plant Ticket No: 313028 Truck No: 158 CY: 40
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
27	A	07/24/2018	7	152,860	6.000	28.274	Type 4	5,410		180.33%
	B	07/24/2018	7	153,410	6.000	28.274	Type 6	5,430	5,420	181.00%
	C	08/14/2018	28	183,700	6.000	28.274	Type 3	6,500		216.67%
	D	08/14/2018	28	179,940	6.000	28.274	Type 3	6,360	6,430	212.00%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

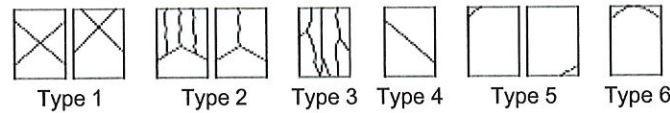
L&G Project Number: E130181
 L&G Report Number: R169-28
 Sample Date: 07/19/2018
 Date Reported: 07/23/2018

Page 1 of 1

Placement Location: Rip Rap Sta. 142+25 Abut. #1
 Mix ID: TXDOT Class A Supplier: CEMEX
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: N/A Slump: 5.0"
 Specified Air Content: N/A Air Content: 2.0%
 Weather Conditions: Sunny/Hot Air Temp.: 93°F
 Time Batched: 12:05 pm Time Sampled: 1:00 pm Concrete Temp.: 90°F
 Plant Ticket No: 54310037 Truck No: 64434 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
28	A	07/26/2018	7	91,959	6.000	28.274	Type 3	3,250		108.33%
	B	07/26/2018	7	79,100	6.000	28.274	Type 4	2,800	3,020	93.33%
	C	08/16/2018	28	124,145	6.000	28.274	Type 4	4,390		146.33%
	D	08/16/2018	28	122,610	6.000	28.274	Type 2	4,340	4,360	144.67%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R170
 Sample Date: 07/06/2018
 Date Reported: 07/31/2018

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street-Subgrade (Avg of 3)	189+00	NB Lanes	12.01

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R171
 Sample Date: 07/06/2018
 Date Reported: 07/31/2018

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street - Subgrade (Avg of 3)	181+00	SB Lanes	12

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R172
Sample Date: 07/12/2018
Date Reported: 07/27/2018

Page 1 of 1

Material: Coarse aggregate surface treatment

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
5/8 in	0	0
1/2 in	5	0-5
3/8 in	40	20-40
No. 4	98	95-100
No. 8	99	98-100

Remarks: Decant Value: 0.6%
Test Method (As Applicable): Tex Method 401-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**SUBGRADE THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19

L&G Project Number: E130181

Client: Hidalgo County Pct. #4

L&G Report Number: R173

Contractor: Texas Cordia Construction, LLC

Sample Date: 06/05/2018

Date Reported: 07/25/2018

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street (Northbound Lanes)	138+00	RT	12.06
2	10th Street (Northbound Lanes)	138+00	RT	12
3	10th Street (Northbound Lanes)	138+00	RT	12.13

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R173
 Sample Date: 07/13/2018
 Date Reported: 07/31/2018

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street - Base Material (avg of 3)	137+50	NB Lanes	6.01

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
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 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
 TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R174
 Sample Date: 07/13/2018
 Date Reported: 07/31/2018

Page 1 of 1

Material Description Cement Treated Flexbase

Required % Proctor 95.0 Moisture Tolerance -2+2

Proctor No	Optimum % Moisture	Opt. Density, LB/CF
BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	NBLN 15'Rt Side Sta. 137+50	BASE MD4	16.5%	108.8 pcf	96.9% (Pass)	6"
2	SBLN 20'Lt Side Sta. 138+00	BASE MD4	16.3%	109.8 pcf	97.8% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R175
 Sample Date: 07/19/2018
 Date Reported: 08/01/2018

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street - Base Material (avg of 3)	143+20 20'Rt	NB Lanes	4.02

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
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 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
 TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R176
 Sample Date: 07/19/2018
 Date Reported: 08/01/2018

Page 1 of 1

Material Description 2% Cement Flexbase

Required % Proctor 95.0 Moisture Tolerance -2+2

Proctor No	Optimum % Moisture	Opt. Density, LB/CF
BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	SB Lanes 15'Lt Sta. 143+60	BASE MD4	16.4%	106.9 pcf	95.2% (Pass)	4"
2	NB Lanes 20'Rt Sta. 143+20	BASE MD4	14.0%	108.0 pcf	96.2% (Pass)	4"
3	SB Lanes 25'Lt Sta. 148+00	BASE MD4	16.5%	110.0 pcf	98.0% (Pass)	4"
4	NB Lanes 10'Rt Sta. 148+00	BASE MD4	16.5%	112.6 pcf	100.3% (Pass)	4"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
 TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R177
 Sample Date: 07/19/2018
 Date Reported: 08/01/2018

Page 1 of 1

Material Description 2% Cement Flexbase

Required % Proctor 95.0 Moisture Tolerance -2+2

Proctor No	Optimum % Moisture	Opt. Density, LB/CF
BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	NB Lanes 10'Rt Sta. 181+25	BASE MD4	13.8%	113.0 pcf	100.6% (Pass)	6"
2	NB Lanes 25'Rt Sta. 186+50	BASE MD4	14.8%	112.4 pcf	100.1% (Pass)	6"
3	NB Lanes 20'Rt Sta. 187+00	BASE MD4	15.0%	112.9 pcf	100.5% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.

Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R178
 Sample Date: 07/20/2018
 Date Reported: 08/01/2018

Page 1 of 1

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street-Base Material (avg of 3)	186+50 15'LT	SB Lanes	6.01

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R179
 Sample Date: 07/20/2018
 Date Reported: 08/01/2018

Page 1 of 1

Material Description	2% Cement Flexbase		
Required % Proctor	95.0	Moisture Tolerance	-2+2
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	SB Lanes 8'Lt Sta. 180+00	BASE MD4	16.3%	110.1 pcf	98.0% (Pass)	6"
2	SB Lanes 20'Lt Sta. 184+50	BASE MD4	15.8%	112.6 pcf	100.3% (Pass)	6"
3	SB Lanes 15'Lt Sta. 186+50	BASE MD4	15.6%	111.9 pcf	99.6% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R180
Sample Date: 07/24/2018
Date Reported: 07/27/2018

Page 1 of 1

Material: Coarse aggregate surface treatment

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
5/8 in	0.6*	0
1/2 in	11*	0-5
3/8 in	51*	20-40
No. 4	99	95-100
No. 8	99	98-100

Remarks: Decant Value: 0.6% / Gradation failed to meet requirements
Test Method (As Applicable): Tex Method 401-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R181
Sample Date: 07/24/2018
Date Reported: 07/27/2018

Page 1 of 1

Material: Coarse aggregate surface treatment

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
5/8 in	0	0
1/2 in	6*	0-5
3/8 in	50*	20-40
No. 4	99	95-100
No. 8	99	98-100

Remarks: Decant Value: 0.5% / Gradation failed to meet requirements
Test Method (As Applicable): Tex Method 401-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R182
 Sample Date: 07/26/2018
 Date Reported: 08/07/2018

Page 1 of 1

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street - Subgrade (avg of 3)	166+00	NB Lanes - RT Side	12.10

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R183
Sample Date: 07/26/2018
Date Reported: 08/07/2018

Page 1 of 1

Material: Lime Treated 12" Subgrade

<u>Sieve</u>	<u>% Passing</u>	<u>Required</u>
1 3/4 in	100	100
3/4 in	100*	85
No. 4	90*	60

Remarks: *Met Requirements.
Test Method (As Applicable): Tex 101-E / Part III

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R184
 Sample Date: 07/26/2018
 Date Reported: 08/07/2018

Page 1 of 1

Material Description	Lime Treated Subgrade		
Required % Proctor	95.0	Moisture Tolerance	-1+2
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	E130181-14	15.1	109.2

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	Subgrade 3% Lime NB Lanes 10'Rt Sta. 164+50	E130181-14	16.7%	107.1 pcf	98.1% (Pass)	12"
2	Subgrade 3% Lime 20'Rt Sta. 166+50	E130181-14	16.5%	106.4 pcf	97.4% (Pass)	12"
3	Subgrade 3% Lime 15'Lt Sta. 165+45	E130181-14	15.7%	107.5 pcf	98.4% (Pass)	12"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R185
 Sample Date: 07/31/2018
 Date Reported: 08/07/2018

Page 1 of 1

Material Description	Cement Treated Flexbase		
Required % Proctor	95.0	Moisture Tolerance	-2+2
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	6" Cement Treated Flexbase 20'Lt Sta. 189+50	BASE MD4	13.4%	110.0 pcf	98.0% (Pass)	6"
2	6" Flexbase 15'Lt Sta. 190+00	BASE MD4	13.9%	109.1 pcf	97.2% (Pass)	6"
3	4" Cement Treated Flexbase 30'Lt Sta. 127+90	BASE MD4	13.1%	110.3 pcf	98.2% (Pass)	4"
4	4" Cement Treated Flexbase 20'Rt Sta. 128+00	BASE MD4	14.3%	110.2 pcf	98.1% (Pass)	4"
5	4" Cement Treated Flexbase 10'Lt Sta. 138+00	BASE MD4	13.1%	112.1 pcf	99.8% (Pass)	4"
6	4" Cement Treated Flexbase 20'Rt Sta. 139+00	BASE MD4	13.6%	111.4 pcf	99.2% (Pass)	4"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**PAVEMENT THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R186
 Sample Date: 07/31/2018
 Date Reported: 08/07/2018

Page 1 of 1

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street - Base Material (avg of 3)	166+00	SB Lanes LT Side	4.00

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**ASPHALT PAVING CORE THICKNESS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R187
 Sample Date: 07/31/2018
 Date Reported: 08/07/2018

Page 1 of 1

Quantity Represented:

Core#	Street	Station	Location	Thickness, In.
1	10th Street / Base Material (avg of 3)	189+50	NB Lanes RT Side	6.02

Test Methods: TEX-140-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**REPORT OF SITE VISIT
 TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19

L&G Project Number: E130181

Client: Hidalgo County Pct. #4

L&G Report Number: R188

Contractor: Texas Cordia Construction, LLC

Sample Date: 08/07/2018

Date Reported: 08/15/2018

Page 1 of 1

On August 7, 2018 a representative of L&G Engineering Laboratory was dispatched to 10th Street Extension to perform inspection on the placement of ready-mixed concrete on West Side Curb and Gutter.

Specimen Number 29 was obtained and tested at 8:27 AM, and the following were determined:

Concrete Temp: 90°f	N/A	Entrapped/Entrained Air Content: 1.3%	N/A
	Specification		Specification
Ambient Temp: 82°f	N/A	Slump: 2 inches	N/A
	Specification		Specification

From Specimen Number 29, a total of 4 6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

Specimen Number 30 was obtained and tested at 10:46 AM, and the following were determined:

Concrete Temp: 91°f	N/A	Entrapped/Entrained Air Content: 1.3%	N/A
	Specification		Specification
Ambient Temp: 88°f	N/A	Slump: 1 1/2 inches	N/A
	Specification		Specification

From Specimen Number 30, a total of 4 6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On August 8, 2018 a representative of L&G Engineering Laboratory was dispatched to the referenced project to collect the cylindrical specimens cast on the placement of ready-mixed concrete on West Side Curb and Gutter. The specimens were delivered to the laboratory where they were stripped, labeled, and placed in a curing tank for testing at intervals of 7 and 28 days.

Test Methods (If Applicable): TEX-415-A, TEX-416-A, TEX-422-A, TEX-447-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

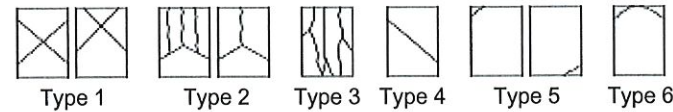
L&G Project Number: E130181
 L&G Report Number: R189
 Sample Date: 08/07/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: West Side Curb and Gutter
 Mix ID: TXDOT Class A Supplier: Jill Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: MAX 2.5" Slump: 2.0"
 Specified Air Content: N/A Air Content: 1.3%
 Weather Conditions: Sunny/Humid Air Temp.: 82°F
 Time Batched: 7:51 am Time Sampled: 8:27 am Concrete Temp.: 90°F
 Plant Ticket No: 314590 Truck No: 169 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
29	A	08/14/2018	7	120,245	6.000	28.274	Type 3	4,250		141.67%
	B	08/14/2018	7	109,645	6.000	28.274	Type 5	3,880	4,070	129.33%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

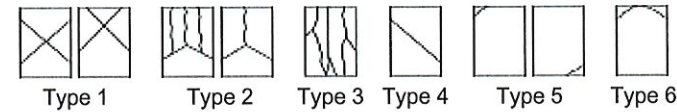
L&G Project Number: E130181
 L&G Report Number: R190
 Sample Date: 08/07/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: West Side Curb and Gutter
 Mix ID: TXDOT Class A Supplier: Jill Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: MAX 2.5 Slump: 1.5"
 Specified Air Content: N/A Air Content: 1.3%
 Weather Conditions: Sunny/Humid Air Temp.: 88°F
 Time Batched: 10:05 am Time Sampled: 10:46 am Concrete Temp.: 91°F
 Plant Ticket No: 31427 Truck No: 158 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
30	A	08/14/2018	7	112,870	6.000	28.274	Type 5	3,990		133.00%
	B	08/14/2018	7	114,685	6.000	28.274	Type 5	4,060	4,020	135.33%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19

L&G Project Number: E130181

Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Report Number: R191
Sample Date: 08/07/2018
Date Reported: 08/13/2018

Page 1 of 1

Material: Surface Treatment Gravel

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
5/8 in	0	0
1/2 in	8*	0-5
3/8 in	52*	20-40
No. 4	98	95-100
No. 8	98	98-100

Remarks: Decant Value: 0.6 / Gradation failed to meet requirements
Test Method (As Applicable): Tex Method 401-A, Tex 406-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R192
Sample Date: 08/07/2018
Date Reported: 08/13/2018

Page 1 of 1

Material: Surface Treatment Gravel

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
5/8 in	2*	0
1/2 in	20*	0-5
3/8 in	71*	20-40
No. 4	99	95-100
No. 8	99	98-100

Remarks: Decant Value: 0.8% / Gradation failed to meet requirements
Test Method (As Applicable): Tex Method 401-A, Tex 406-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R193
 Sample Date: 08/07/2018
 Date Reported: 08/15/2018

Page 1 of 1

Material Description	Lime Treated Subgrade		
Required % Proctor	95.0	Moisture Tolerance	-1+2
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	E130181-14	15.1	109.2

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	SB Lanes Left Side 20'Lt Sta. 101+50	E130181-14	16.0%	104.4 pcf	95.6% (Pass)	12"
2	Sb Lanes Left Side 30'Lt Sta. 102+80	E130181-14	15.3%	106.5 pcf	97.5% (Pass)	12"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

**PROCTOR
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R194
 Sample Date: 08/07/2018
 Date Reported: 08/15/2018

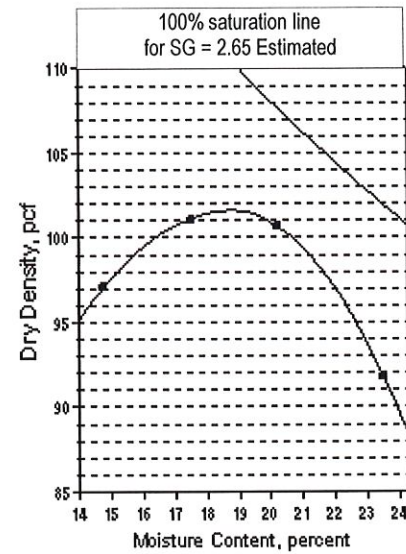
Page 1 of 1

Compaction Method: ASTM D-698
 Material Description: Lime Treated Subgrade

Specific Gravity: 2.65

Liquid Limit: 26
 Plastic Limit: 17
 Plasticity Index: 9

Specimen No.:	1	2	3	4
Moisture, %:	14.7	17.5	20.2	23.4
Dry Density (pcf):	96.90	101.0	100.7	92.20
Maximum Dry Density in P.C.F.: 101.6				
Optimum Moisture (%): 18.8				



Test Method: TEX-114

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**REPORT OF SITE VISIT
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19

Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181

L&G Report Number: R195
Sample Date: 08/09/2018
Date Reported: 08/09/2018

Page 1 of 1

On August 9, 2018 a representative of L&G Engineering Laboratory was dispatched to 10th Street Extension to perform inspection on the placement of ready-mixed concrete on East Curb and Gutter (S. of Rogers Road).

Specimen Number 31 was obtained and tested at 6:00 AM, and the following were determined:

Concrete Temp: 88°f	N/A	Entrapped/Entrained Air Content: 1.4%	N/A
	Specification		Specification
Ambient Temp: 80°f	N/A	Slump: 3/4 inch	N/A
	Specification		Specification

From Specimen Number 31, a total of 4 6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On August 10, 2018 a representative of L&G Engineering Laboratory was dispatched to the referenced project to collect the cylindrical specimens cast on the placement of ready-mixed concrete on Curb and Gutter. The specimens were delivered to the laboratory where they were stripped, labeled, and placed in a curing tank for testing at intervals of 7 and 28 days.

Test Methods (If Applicable): TEX-415-A, TEX-416-A, TEX-422-A, TEX-447-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**CONCRETE COMPRESSION
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

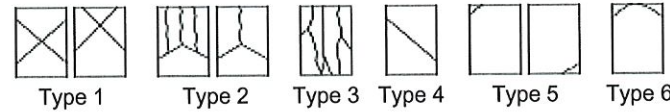
L&G Project Number: E130181
 L&G Report Number: R196
 Sample Date: 08/09/2018
 Date Reported: 08/15/2018

Page 1 of 1

Placement Location: East Curb and Gutter (S. of Rogers Rd)
 Mix ID: [x]DOT Class A Supplier: Jill Concrete
 Specified Strength: 3,000 P.S.I. @ 28 days
 Specified Slump: MAX 2.5" Slump: 0.75"
 Specified Air Content: N/A Air Content: 1.4%
 Weather Conditions: Dark/Humid Air Temp.: 80°f
 Time Batched: 5:24 am Time Sampled: 6:00 am Concrete Temp.: 88°f
 Plant Ticket No: 314764 Truck No: 160 CY: 10
 Water: 0 gal.

Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Diameter	Area	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
31	A	08/16/2018	7	133,430	6.000	28.274	Type 2	4,720		157.33%
	B	08/16/2018	7	132,270	6.000	28.274	Type 4	4,680	4,700	156.00%



Remarks/Comments:

Test Methods: TEX-418-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering

Ricardo A. Gil, Lab Manager

**REPORT OF SITE VISIT
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19

Client: Hidalgo County Pct. #4

Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181

L&G Report Number: R197

Sample Date: 08/09/2018

Date Reported: 08/15/2018

Page 1 of 1

On August 9, 2018, three samples of Lime Slurry were shipped to San Antonio Testing Laboratory to perform testing in general accordance with Texas Department of Transportation test procedure TEX-600-J. The test results (attached) have been reviewed and found to have met requirements of DMS 6350.

Test Methods (If Applicable): TEX-600-J

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

August 09, 2018

Rick Gil

L & G Eng Lab
2100 West Expressway 83
Mercedes, TX 78570

SATL Report No.: 1808010

RE: 10th Street

Project Number: E130181

Dear Rick Gil

SATL received 3 Sample(s) on 08/01/2018 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

There were no problems in the sample analyses unless otherwise noted. Sample data and associated QC are presented in the attached laboratory report. QC sample data were within laboratory acceptance limits except where noted on the report.

Sincerely,

For San Antonio Testing Laboratory, Inc.



Richard Hawk,
General Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**SIEVE ANALYSIS
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
C-17-218-12-19
Client: Hidalgo County Pct. #4
Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
L&G Report Number: R198
Sample Date: 08/09/2018
Date Reported: 08/13/2018

Page 1 of 1

Material: Pipe Underdrain Gravel

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
1 1/2 in	0	0-10
3/4 in	29	20-40
No. 4	*	35-65
No. 20	*	40-60
No. 50	*	75-100

Remarks: Decant Value:0.6% - Gradation failed to meet requirements
Test Method (As Applicable): Item 556 Type C Gravel, Tex 406-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Texas Cordia Construction, LLC
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
 TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R199
 Sample Date: 08/10/2018
 Date Reported: 08/16/2018

Page 1 of 1

Material Description	Cement Treated Flexbase		
Required % Proctor	95.0	Moisture Tolerance	-2+2
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	SB Lanes Left Side 42'Lt Sta. 162+00	BASE MD4	14.2%	108.6 pcf	96.7% (Pass)	6"
2	SB Lanes Left Side 35'Lt Sta. 167+00	BASE MD4	13.7%	109.4 pcf	97.4% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager

**FIELD DENSITIES
TEST REPORT**

Project Description: 10th Street Extension Project from SH107 to FM 1925
 C-17-218-12-19
 Client: Hidalgo County Pct. #4
 Contractor: Texas Cordia Construction, LLC

L&G Project Number: E130181
 L&G Report Number: R200
 Sample Date: 08/15/2018
 Date Reported: 08/16/2018

Page 1 of 1

Material Description 2% Cement Treated Flexbase

Required % Proctor 95.0 Moisture Tolerance -2+2

Proctor No	Optimum % Moisture	Opt. Density, LB/CF
BASE MD4	14.5	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	NB Lanes Right Side 8'Rt Sta. 154+25	BASE MD4	14.0%	112.9 pcf	100.5% (Pass)	6"
2	NB Lanes Right Side 12'Rt Sta. 156+50	BASE MD4	14.4%	109.1 pcf	97.2% (Pass)	6"
3	NB Lanes Right Side 25'Rt Sta. 159+00	BASE MD4	14.9%	109.4 pcf	97.4% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.
 Test Methods: TEX-115-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Texas Cordia Construction, LLC
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



Ricardo A. Gil, Lab Manager