

B²Z ENGINEERING

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

PO # 888404 721/841
5-1315-431-00-122-136-0-
 Req # 504711

(721) = \$ 802.05 (841) = \$1,203.07

PO # N/A
5-1315-126-10-122-136-0-000
 Req # N/A \$47,179.40

PO # N/A
5-1315-126-20-122-136-0-000
 Req # N/A \$9,789.73

Invoice

Date	Invoice #
7/11/2025 ✓	20511 ✓

Please send remittance with copy of invoice to:

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

Bill To:
 Hidalgo County Precinct #2
 300 W. Hall Acres Rd.
 Pharr, TX 78577

Project Info:
 Nolana Loop Road Project
 Contract # C-24-0118-10-01
 Work Authorization #1 PO# 888404
 Construction Phase Services

RECEIVED JUL 11 2025


B2Z JOB: 2322

Billing Period June 2025 ✓

Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete	
Construction Contract Administration	\$ 233,983.74 ✓	\$ 44,456.91 ✓	\$ 7,019.51 ✓	\$ 51,476.42 ✓	22%	182,507.32
Construction Management & Inspection						
Construction Management (During Construction)	\$ 348,746.20 ✓	\$ 41,849.54 ✓	\$ 10,462.39 ✓	\$ 52,311.93 ✓	15%	296,434.27
Construction Inspection	\$988,509.08 ✓	\$ 118,621.09 ✓	\$ 29,655.27 ✓	\$ 148,276.36 ✓	15%	840,232.72
Construction Management (Post Construction)	\$33,823.66 ✓	\$ -	\$ -	\$ -	0%	33,823.66
Miscellaneous Technical Activities	\$89,915.92 ✓	\$ 10,789.91 ✓	\$ 2,697.48 ✓	\$ 13,487.39 ✓	15%	76,428.53
Direct Expenses						
Mileage	\$ 25,084.80 ✓	\$ 3,010.18 ✓	\$ 752.54 ✓	\$ 3,762.72 ✓	15%	21,322.08
Construction Material Testing (CMT)	\$ 279,568.64 ✓	\$ 22,365.49 ✓	\$ 8,387.06 ✓	\$ 30,752.55 ✓	11%	248,816.09
	<u>1,999,632.04</u>	<u>241,093.12</u>	<u>58,974.25</u>	<u>300,067.37</u>		<u>1,699,564.67</u>
Total For This Billing Period						58,974.25

Work Authorization ~ Summary

WA No.	WA Amount	Previously Inv.	Percent Complete	Remaining Balance
1	\$1,999,632.04 ✓	\$241,093.12 ✓	15.0%	\$1,699,564.67


 Aisha Gonzalez - President

\$ 58,974.25 x 80% = \$47,179.40
 \$58,974.25 x 16.6% = \$9,789.73
 \$58,974.25 x 3.4% = \$2,005.12 → \$2,005.12 x 40% = \$802.05
 \$2,005.12 x 60% = \$1,203.07

INVOICE RECEIVED BY:

Lupita Garza ON 07/11/25
 GOODS/SERVICES RECEIVED BY:
Eduardo Cantu ON 06/01-30/25

July 11, 2025

Hon. Eddie Cantu
 Commissioner, Hidalgo County Pct. 2
 300 W. Hall Acres Rd.
 Pharr, TX 78577

**RE: Contract # C-24-0118-10-01 ~ Nolana Loop Road Project
 Work Authorization #1 ~ Construction Phase Services**

Dear Commissioner Cantu:

Attached for review and approval is our invoice for services rendered under Work Authorization #1 during the month of June 2025 on the subject referenced project.

The following invoice is attached:

- Invoice No. 20511 ✓

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

TASK	% Complete
Construction Contract Administration	22% ✓
<p><u>UPDATED:</u> The Notice to Proceed was issued for December 11, 2024.</p> <p>In March 2025, B2Z continues meeting with L&G Engineering for acquiring two easements for ID#2 and NAWS, to adjust utilities during construction. B2Z will prepare a Change Order for ID#2 to install the new irrigation line within the new easements and abandon the existing lines.</p> <p>On March 20, 2025, L&G and B2Z met with Anthony Stambaugh to discuss the new easements, relocating existing irrigation lines and water lines and a drain line on C. Chavez.</p> <p>L&G is negotiating a Change Order for a canal realignment with ID#2.</p> <p>Concerns: The realignment of the ID#2 canal (Future CO). ID#2 did not approve of the original planned design, and the project let without resolution stalling the irrigation canal reconstruction. In good faith, L&G redesigned a better solution (CO), realigning the irrigation canal and drainage ditches to provide the same services and reconstruct the road. It was a very good design.</p>	


<p>Current negotiations between L&G & ID#2 ceased because ID#2 did not like the CO and started telling L&G how to redesign the irrigation canal and ditch design. L&G reviewed the idea and determined that ID#2 ideas were not practical for the new crossing.</p> <p>This location will become time sensitive very quickly if a resolution is not determined soon.</p> <p>Concerns: Acquisitions of three easement locations outside of the proposed ROW to replace the existing easements under the new Nolana Road for ID#2 and NAWS. Once the easements are acquired, the newly installed lines will replace the existing lines that can be abandoned in place.</p> <p>Concern: TC cannot complete the April estimate without errors. Delaying payments to everyone.</p>	
<i>Construction Management & Inspection</i>	
Construction Management (During Construction)	15% ✓
<p><u>UPDATED:</u></p> <p>B2Z continues meeting with Texas Cordia, bi-monthly for quantities and concerns. On December 5, 2024, we with Gilma Guevera (PM1) and Wendy Santoy (assist) started the Nolana Project. On May 28, 2024, B2Z met Luis Lozano (new PM2) to discuss quantities and explain the project process to him.</p> <p>He is not familiar with roadway construction or the estimate process. He has a good background with material testing. B2Z explained the project concerns with untimely estimates, timely payments, relocation of utilities, CO's, ID#2 & NAWS and TxDOT.</p> <p>B2Z continues to meet w/ MVE, Spectrum, AEP, NAWS, AT&T and the City of San Juan to relocate all utilities in conflict with the new roadway. MVE is relocating poles on Nolana between Cesar Chavez and FM 907(Alamo Rd). MVE,</p> <p>B2Z continues to meet with Spectrum to relocate lines to the new poles on Cesar Chavez Road.</p> <p>B2Z continues to meet with Mr. Eddie Rios, and the City of San Juan to identify sanitary and water lines to adjust manhole tops or relocate the lines. The City of San Juan identified a new force main sanitary sewer under the west side of C. Chavez Road, running parallel and under the new road. The city did not have a set of plans identifying its exact location.</p>	

Construction Inspection	15% ✓
<p>UPDATED: The contractor placed barricades on January 20th, 2025.</p> <p>Completing the Drainage District outfalls and retention ponds between Nolana and the LJ Drain to the north. TC continues negotiating w/ ID#2 for material approval and irrigation requirements.</p> <p>TC is about 80% complete with the outfalls for DD#1. TC had to close Minnesota Road to install box culverts across the road to the LJ Drain.</p> <p>Farmers and property owners are working well with the TC so as not to impact irrigation services and/or harvesting during the construction. TC continued working along the side of the farmers while planting, watering and picking.</p> <p>TC is installing 72" RCP and CMP on Nolana, west of Raul Longoria Road. Encountered NAWS waterlines and a force main sanitary sewer line in conflict with the proposed storm sewer. TC was instructed to install an additional junction box or conflict manhole to accommodate both systems. NAWS contracted utility workers to relocate their waterlines. TC stopped installing pipes on the west side and moved to the east side of Raul Longoria to recontinue with the storm sewer.</p> <p>TC has cleared the ROW between C. Chavez to FM 907 for MVEC to install the new poles.</p>	
Construction Management (Post Construction)	0% ✓
<p>NO UPDATE: <i>The task has not begun.</i></p>	
Misc. Technical Activities	15% ✓
<p>B2Z continues working closely with Hidalgo County to purchase easement properties and resolve ROW issues with ID#2 and NAWS. L&G continue assisting B2Z with utility issues and ROW concerns. B2Z contacted the City of San Juan about the existing sanitary sewer line under the roadway. P2 may have to adjust the existing manhole tops, temporarily.</p>	

<u>Direct Expenses</u>	
<u>Mileage</u>	15% ✓
<u>UPDATED:</u> The Project Manager visits the site 5 Days per Week. Two inspectors visits the site 5 Days per Week.	
<u>Construction Material Testing (CMT)</u>	11% ✓
<u>UPDATED:</u> B2Z is currently testing the RCP and CMP gravel bedding backfill and sand backfill requirements. B2Z Report No. <ul style="list-style-type: none"> • NL-C1 • NL-2C 7 Day • NL-5SA • NL-5SB • NL-19D • NL-20D 	

Should you have any questions regarding this submittal, please do not hesitate to contact me at 956-585-3773.

Sincerely,


Saul R. Munoz, P.E.
Project Manager

Mission Office

900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

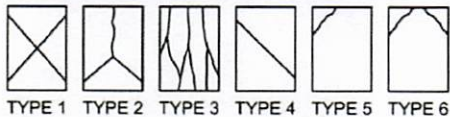
Client:

Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577

Project:

2322
Nolana Loop CEI
various
McAllen, TX

Sample Details										
Set #:	2	Technician:	Cesar Torre	Batched:	09:05 CDT					
Specimen Size:	4 x 8 Cast Cylinder	Cast By:	Cesar Torre	Sampled:	09:30 CDT					
Specimens In Set:	3	Date Cast:	06/03/25	Cast:	09:40 CDT					
Truck / Ticket #:	S107 / 9420	Sampled From:	Chute	Truck Empty:	09:50 CDT					
Contractor:	Texas Cordia	Placement Method:	Chute	Placement Time:	45 (min)					
Location										
Placement Location:	Rip-Rap									
Location Details:	North Side of Nolana between FM & Cesar Chavez. STA: 17+13 East out fall									
Sample Location / Notes:	North Side of Nolana between FM & Cesar Chavez. STA: 17+13 East out fall									
Batch Log				Specifications						
Supplier:	Synolo	Mix Design:	TXDOT Class A	Strength:	3000 (psi)					
On-Site Admixtures:	None									
Field Measurements										
Weather:	Sunny	Slump (in):	4	Plastic Unit Weight:						
Air Temperature (F):	87	Concrete Temp (F):	83	Air Content:	2.9					
					Load Volume:					
Standard Cure					Field Cure					
Min / Max Temp (F):	75/100									
Initial Cure Method:	Plastic Cover/Lid/Blanket									
Final Cure Method:	Water Storage Tank									
Lab Test Results										
Testing Lab: B2Z Mission Lab, 900 S. Stewart Rd., Suite 2, Mission, TX, 78572										
Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
2-1	7	06/10/25	1 / 6	4.00	12.57	39,425	3,140	3	R3	1
2-2	28	07/01/25	1 / 27							
2-3	28	07/01/25	1 / 27							
Test Age Average Strengths (psi): 7 Day - 3140										
									Capping Methods	
R3: The 7 day test results meets or exceeds the 28 day specified strength.									1: Neoprene Pad	
Tested By: Jaykob Quintanilla (1)										
Checked In : 06/04/2025 (1,2,3)										



Respectfully Submitted by B2Z Engineering

Jorge Solis
Jorge Solis, Laboratory Manager

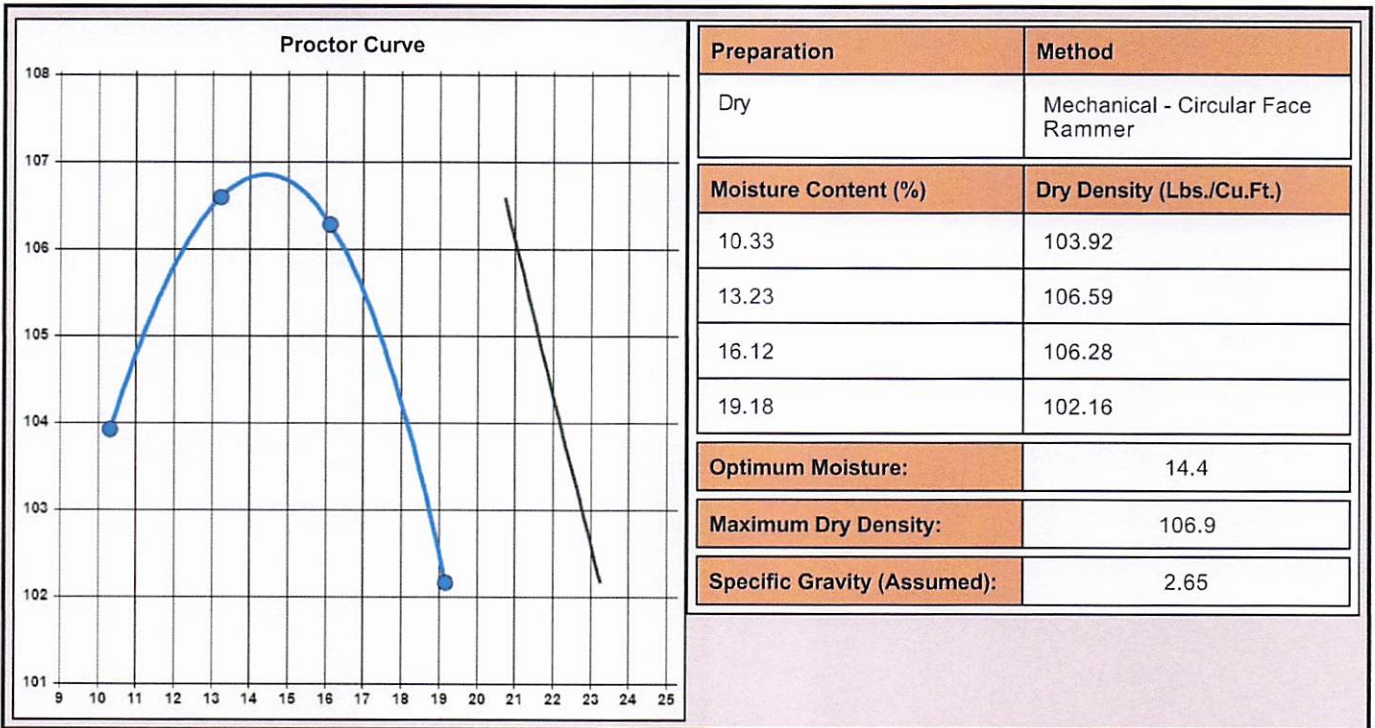
Client:
Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577

Project:
2322
Nolana Loop CEI
various
McAllen, TX

General Information

Sample Date:	05/22/2025	MF Sample Number:	9157
Sample From:	Stockpile	Material Type:	Backfill
Sampled By:	Omar Zarate	Location Details:	106+00 S of Nolana Loop (Earling Rd)

Test Results



Test Completed Date:	05/29/2025	Test Completed By:	Jorge Solis
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Test Results: The test is for informational purposes.

Test Method (As Applicable): Tex 114-E / ASTM D-698 Method-A, Method-B or Method-C ;
Tex 104-E, Tex 105-E, Tex 106-E / ASTM D4318 ;
Tex 110-E / ASTM C-136



Respectfully Submitted by B2Z Engineering

Oliver Salgado, P.E.
Oliver Salgado, P.E., Senior Project Manager

Client:Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577**Project:**2322
Nolana Loop CEI
various
McAllen, TX**General Information**

Sample Date:	05/22/2025	Sample Number:	9157
Sample From:	Stockpile	Material Type:	Backfill
Technician:	Omar Zarate	Location Details:	106+00 S of Nolana Loop (Earling Rd)

Atterberg Limits

Liquid Limit (%)	Plastic Limit (%)	Plastic Index	Specification Requirements	Pass/Fail
45	14	31	PI ≤ 40	Pass


Test Completed Date:	05/22/2025	Test Completed By:	Jorge Solis
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Test Results: The above test result meets the technical specifications.

Test Method (As Applicable):
Tex 104-E, Tex 105-E, Tex 106-E / ASTM D4318



Respectfully Submitted by B2Z Engineering


 Oliver Salgado, P.E., Senior Project Manager



Soil Nuclear Gauge

B2Z Report No. NL-19D
Report Date: 06/06/2025
Test Method: ASTM D 6938

Mission Office
 900 S Stewart Rd, Ste. 2
 Mission, TX 78572
 Phone: 956-585-3773

Client:

Hidalgo County Precinct No. 2
 300 W Hall Acres, Ste. G
 Pharr, TX 78577

Project:

2322
 Nolana Loop CEI
 various
 McAllen, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
22		05/05/25	Subgrade/Backfill II		CL/CH	16.3	105.5	17.6	104.2	122.5	12	98.8	98	DP/MP
23		05/05/25	Subgrade/Backfill II		CL/CH	16.3	105.5	19.3	107.9	128.7	12	102.3	98	DP/MP
24		05/05/25	Subgrade/Backfill II		CL/CH	16.3	105.5	18.5	108.7	128.8	12	103.0	98	DP/MP

Test Information						
Test #	Test Location	Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated	Gauge Standardization Density Standard/Moisture Standard	Field Technician
22	Trench Backfill: 72" RCP Lateral Sta. 92+78 1st Lift			Instrotek / 3500 Xplorer / 4507 / 01/20/2025	2226 / 748	Armando Rodriguez Jr
23	Trench Backfill: 72" RCP Lateral Sta. 92+78 2nd Lift			Instrotek / 3500 Xplorer / 4507 / 01/20/2025	2226 / 748	Armando Rodriguez Jr
24	Trench Backfill: 72" RCP Lateral Sta. 92+78 3rd Lift			Instrotek / 3500 Xplorer / 4507 / 01/20/2025	2226 / 748	Armando Rodriguez Jr

Remarks	Comments
DP/MP: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 22: Inspector Kino Gonzalez was present.

Respectfully Submitted by B2Z Engineering

Jorge Solis, Laboratory Manager



Soil Nuclear Gauge

B2Z Report No. NL-20D
Report Date: 06/06/2025
Test Method: ASTM D 6938

Mission Office
900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

Client:
Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577

Project:
2322
Nolana Loop CEI
various
McAllen, TX

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
25		05/05/25	Subgrade/Backfill		CL/CH	16.3	105.5	18.6	108.3	128.5	12	102.7	98	DP/MP
26		05/05/25	Subgrade/Backfill		CL/CH	16.3	105.5	18.3	106.2	125.6	12	100.7	98	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated	Gauge Standardization Density Standard/Moisture Standard	Field Technician
25	Trench Backfill: 72" RCP Lateral Sta. 92+78 4th Lift			Instrotek / 3500 Xplorer / 4507 / 01/20/2025	2226 / 748	Armando Rodriguez Jr
26	Trench Backfill: 72" RCP Lateral Sta. 92+78 5th Lift			Instrotek / 3500 Xplorer / 4507 / 01/20/2025	2226 / 748	Armando Rodriguez Jr

Remarks	Comments
DP/MP: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 25: Inspector Kino Gonzalez was present.

Respectfully Submitted by B2Z Engineering

Jorge Solis, Laboratory Manager



Mission Office
 900 S Stewart Rd, Ste. 2
 Mission, TX 78572
 Phone: 956-585-3773

Cancelled Work Order

B2Z Report No. NL-C1

Client:

Hidalgo County Precinct No. 2
 300 W Hall Acres, Ste. G
 Pharr, TX 78577

Project:

2322
 Nolana Loop CEI
 various
 McAllen, TX

General Information

Activity Number: 2	Activity Date: 06/09/2025
Technician: Alvaro Robles Jr.	

Notes

Technician was schedule to perform density testing but contractor was not ready. Trip and time will be charged.

Respectfully Submitted by B2Z Engineering

Jorge Solis, Laboratory Manager



Purchase Order COUNTY OF HIDALGO

PO# 888404

DATE: 10/29/2024

PAGE: 1 Of 1

PO TYPE: NULL

VENDOR: 449121

REQ: 00504711

PHONE: (956) 585-3773

Fax: (956) 583-7116

EMAIL: Reza@B2ZEng.com

SHIP TO: HIDALGO CO. PCT 2

300 WEST HALL ACRES, SUITE G
PHARR TX 78577

B2Z ENGINEERING, LLC
900 S. STEWART RD. SUITE 4
MISSION TX 78572

CONTACT: EDUARDO CANTU

(956) 787-1891

SITE: COMMISSIONER, PRECINCT 2

CONTRACT: C-24-0118-10-01

VENDOR ACCOUNT:

SPECIAL INSTRUCTIONS:

VENDOR NOTES

- Do not add to, or alter this Purchase Order. This Order is not renewable.
- TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
- This Order is also placed F.O.B. Destination. Vendor must repay all shipping costs.
- Invoice each Purchase Order singly. Original invoices are required customer copy may be accepted. Out number must appear on all invoices, bills of lading, and packages.
- Payment will be made only for bona fide and full completed orders, unless otherwise attached.

QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER TXDOT PCT 2 NOLANA LOOP ROAD PROJECT (FROM 1426 (RAUL LONGORIA RD.) TO FM 907 (ALAMO RD) - ENGINEERING SERVICES		
		WORK AUTHORIZATION#1 APPROVED BY CC 10/01/24 AI#96872 AFA APPROVED BY CC 11/26/2019 AI#73414 AFA AMENDMENT NO. 1 APPROVED BY CC 12/20/2022 AI#88870 AFA AMENDMENT NO. 2 APPROVED BY CC 5/2/2023 AI#90722 ICA WITH HCDD#1 APPROVED BY CC 6/20/2024 AI#95762		
		TOTAL WORK AUTHORIZATION NO. 1 IS FOR \$1,999,632.04 AS PER AFA, TXDOT PORTION OF CONSTRUCTION ENGINEERING & INSPECTION (CEI) IS \$1,855,561.39 (FEDERAL) PARTICIPATION IS \$1,536,696.80, STATE PARTICIPATION IS \$318,864.59 AND COUNTY PARTICIPATION IS \$144,070.65		
1.00	LOT	CC WORK AUTHORIZATION NO. 1 FOR ENGINEER TO PROVIDE CONSTRUCTION CONTRACT ADMINISTRATION, CONSTRUCTION MANAGEMENT & INSPECTION, CONSTRUCTION MATERIAL TESTING AND MISCELLANEOUS TECHNICAL ACTIVITIES NEEDED FOR NOLANA LOOP PROJECT FROM FM 1426 (RAUL LONGORIA RD) TO FM 907 (ALAMO RD) WITHIN HIDALGO COUNTY PRECINCT 2	144,070.6500	144,070.65
1.00		PO LIQUIDATION INV#20463 PD DIRECT W/CK#04-024687 B#001173 RC 3/27/25	0.0000	0.00
1.00		PO LIQUIDATION INV#20463 PD DIRECT W/CK#04-024687 B#001173 RC 3/27/25	0.0000	0.00
		TOTAL:		144,070.65
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		
		***** For Hidalgo County use only		
		5-1315-431-00-122-136-0-721	57,628.26	
		5-1315-431-00-122-136-0-841	86,442.39	

Authorized by: Ignacio Amigona