

# B<sup>2</sup>Z ENGINEERING

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

## Invoice

Date	Invoice #
1/10/2025	30077

SIGNATURE *J. Hule*  
 R# 505090  
 PO# 889301

Please send remittance with copy of invoice to:  
 Attn: Mrs. Aisha Gonzalez  
 P.O. Box 2724  
 McAllen, Tx. 78502

Bill To:  
 Hidalgo County Precinct #3  
 724 Breyfogle Rd.  
 Mission, TX 78574

Project Info:  
 C-24-0384-10-29  
 WA#1 - FM2221 Stormwater Project  
 PO# 889301  
 B2Z JOB #: 3106

**Billing Period**                      **December 2024**

Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete
Geotechnical Engineering	\$ 6,513.38		\$ -	\$ -	0.0%
Construction Material Testing Services (CMT)	\$ 23,115.92		\$ 3,467.39	\$ 3,467.39	15.0%
<b>Total For This Billing Period</b>					<b>\$3,467.39</b>

### Work Authorization ~ Summary

<u>WA No.</u>	<u>WA Amount</u>	<u>Previously Inv.</u>	<u>Percent Complete</u>	<u>Remaining Balance</u>
1	\$29,629.30	\$0.00	12%	\$26,161.91

*Aisha Gonzalez*  
 Aisha Gonzalez - President

INVOICE RECEIVED BY *[Signature]* ON 1-14-25  
 GOODS/SERVICES RECEIVED BY *[Signature]* ON 1-14-25

Acct# 4-1290-431-50-115-221-3-723



# Soil Nuclear Gauge

B2Z Report No. 2221-1D  
Report Date: 12/18/2024  
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. 3  
724 Breyfogle Rd  
Mission, TX 78574

**Project:**  
3106  
FM2221 Stormwater Project  
various  
Mission, 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
1		12/13/24	Subgrade		CL/CH	9.0	123.1	6.5	130.8	139.3	6	106.3	95	DP/MF
2		12/13/24	Subgrade		CL/CH	9.0	123.1	6.0	132.8	140.8	6	107.9	95	DP/MF
Test Information														
Test #	Test Location	Elevation	Reference	Make / Model / SN / Calibrated	Gauge	Field Technician								
1	Roadway: Mile 7 Sta: 4+00 6' N CL 1st Lift			Instrotek / 3500 Xplorer / 4507 / 01/30/2024		Ruben Singletery								
2	Roadway: Mile 7 Sta: 5+00 CL Final Lift			Instrotek / 3500 Xplorer / 4507 / 01/30/2024		Ruben Singletery								
Remarks		Comments												
DP/MF: Density Pass / Moisture Fail		Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency. 1: Inspector Ruben Flores was present.												

Respectfully Submitted by B2Z Engineering

Jorge Solis, Laboratory Manager

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.

Client:

Hidalgo County Precinct No. 3  
724 Breyfogle Rd  
Mission, TX 78574

Project:

3106  
FM2221 Stormwater Project  
various  
Mission, TX

**General Information**

Sample Date:	12/06/2024	MF Sample Number:	7575
Sample From:	Roadway	Material Type:	Subgrade
Sampled By:	Jacob Chavez	Location Details:	Roadway Subgrade Composit Sample from 330' E of Entrance to 40801 7 mile line, 175' E of Previous Spot, 60' E of Previous Spot, 100' E of Previous Spot

**Test Results**

<p style="text-align: center;"><b>Proctor Curve</b></p>	Preparation	Method
	Dry	Mechanical - Circular Face Rammer
	Moisture Content (%)	Dry Density (Lbs./Cu.Ft.)
	2.60	110.27
	5.42	117.36
8.42	122.88	
11.92	116.34	
Optimum Moisture:	9.0	
Maximum Dry Density:	123.1	
Specific Gravity (Assumed):	2.65	

Test Completed Date:	12/11/2024	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

*Jorge Solis*  
Jorge Solis, Laboratory Manager

**Client:**Hidalgo County Precinct No. 3  
724 Breyfogle Rd  
Mission, TX 78574**Project:**3106  
FM2221 Stormwater Project  
various  
Mission, TX**General Information**

<b>Sample Date:</b>	12/06/2024	<b>Sample Number:</b>	7575
<b>Sample From:</b>	Roadway	<b>Material Type:</b>	Subgrade
<b>Technician:</b>	Jacob Chavez	<b>Location Details:</b>	Roadway Subgrade Composit Sample from 330' E of Entrance to 40801 7 mile line, 175' E of Previous Spot, 60' E of Previous Spot, 100' E of Previous Spot

**Atterberg Limits**

Liquid Limit (%)	Plastic Limit (%)	Plastic Index	Specification Requirements	Pass/Fail
0	0	Non Plastic	≤ 15	Pass

<b>Test Completed Date:</b>	12/12/2024	<b>Test Completed By:</b>	Jorge Solis
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<b>Test Results:</b> The above test result meets the technical specifications.
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Test Method (As Applicable):  
Tex 104-E, Tex 105-E, Tex 106-E / ASTM D4318

Respectfully Submitted by BZZ Engineering


  
 Jorge Solis, Laboratory Manager