



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

Invoice

| Date | Invoice # |
|----------|-----------|
| 4/4/2024 | 20418 |

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:

Las Milpas Road Project
 Contract # C-18-075-02-27
 Work Authorization #2
 Construction Phase Services

RECEIVED APR 04 2024

B2Z JOB: 2309

PO# 856176

Billing Period March 2024

| Description | Contract | Previous Applications | Current Completed | Total Completed | % Complete | Balance |
|---|-------------------|-----------------------|-------------------|-------------------|------------|------------------|
| Construction Contract Administration | \$ 31,265.38 | \$ 25,012.30 | \$ 937.97 | \$ 25,950.27 | 83% | 5,315.11 |
| Construction Management & Inspection | | | | | | |
| Construction Management (During Construction) | \$ 37,230.22 | \$ 29,784.18 | \$ 1,116.90 | \$ 30,901.08 | 83% | 6,329.14 |
| Construction Inspection | \$ 120,386.50 | \$ 96,309.20 | \$ 3,611.59 | \$ 99,920.80 | 83% | 20,465.71 |
| Construction Management (Post Construction) | \$ 5,173.42 | \$ - | \$ - | \$ - | 0% | 5,173.42 |
| Direct Expenses | | | | | | |
| Mileage | \$ 6,027.84 | \$ 4,822.27 | \$ 180.84 | \$ 5,003.11 | 83% | 1,024.73 |
| Construction Material Testing (CMT) | \$ 139,476.71 | \$ 111,581.37 | \$ 4,184.30 | \$ 115,765.67 | 83% | 23,711.04 |
| | <u>339,560.07</u> | <u>267,509.32</u> | <u>10,031.60</u> | <u>277,540.92</u> | | <u>62,019.15</u> |
| Total For This Billing Period | | | | | | 10,031.60 |

Work Authorization ~ Summary

| WA No. | WA Amount | Previously Inv. | Percent Complete | Remaining Balance |
|--------|--------------|-----------------|------------------|-------------------|
| 2 | \$339,560.07 | \$267,509.32 | 81.7% | \$62,019.15 |

Aisha Gonzalez - President

INVOICE RECEIVED BY:

Lupita Garza ON 04/04/24

GOODS/SERVICES RECEIVED BY:

Eddie Cantu ON 03/01-31/24

PO # 856176

4 -1358 431-00-122-147 -0- 841

Req # 463204

\$ 10,031.60

April 4, 2024

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

**RE: Contract # C-18-075-02-27 ~ Las Milpas Road Project
 Work Authorization #2 ~ Construction Phase Services**

Dear Commissioner Cantu:

Attached for your review and approval is our invoice for services rendered under Work Authorization #2 during the month of March 2024 on the subject referenced project.

The following is attached:

- Invoice No. 50418

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

| TASK | % Complete |
|---|------------|
| Construction Contract Administration | 83% |
| <p><u>UPDATED:</u></p> <p>Precinct #2 held the Las Milpas preconstruction meeting with GO Underground on October 7, 2022, to initiate the start of construction.</p> <p>The Notice to Proceed was approved for November 1, 2022, but construction was delayed due to Texas Gas (TG) relocation plan. The Notice to Proceed was reissued for January 9, 2023, and GO started construction on the east end of the Project.</p> <p>On February 24, 2023, Precinct #2, B2Z and Texas Gas initiated the first meeting to discuss relocating their gas line with respect to the Las Milpas schedule. They completed their gas line relocations on both sides of the Main Canal after October 2023. The remaining gas lines, Lone Star, DeBrie and Enterprise completed their adjustments plans after November 2023 while coordinating with B2Z and the Hidalgo County Drainage District. The Drainage District (DD) introduced new plan changes on the west side of the canal that adds to the 12x8 drain ditch overflow for Hidalgo County.</p> <p>To date, GO has completed the drainage structure on both sides of the Main Canal, provided storm sewer to the Convention Center, a 7x5 equalizer under the main canal and a change order to protect a high-pressure gas line conflict.</p> | |

| | |
|--|-------------------|
| <p>B2Z continues to coordinate construction activities with GO Underground to minimize errors, approve changes, look for cost savings and complete the project.</p> <p>B2Z continues to coordinate all contract administration activities with Armando Garza (County RPIC), Roy Garcia (County-PM), Erika Zamora (County-Accounting) and Joe Olivarez (GO Co-Owner).</p> <p>B2Z continues coordinating with Oliver Salgado (Designer), Robert Machesca (Designer) and Chris Rodriguez (Designer) for plan changes and change orders.</p> <p>B2Z continues to coordinate with HCID #2 for the Bridge Construction, and with HCID#3 to introduce easement changes absorbed by the roadway. The easement is not needed and can only be eliminated with the permission of the landowner, Delia's - Tamales. P2 is preparing transfer of ownership letters and negotiating for the easement. The irrigation will continue to services two farmers to the east with irrigation, once the transfer is completed.</p> | |
| <p>Construction Management & Inspection</p> | |
| <p>Construction Management (During Construction)</p> | <p>83%</p> |
| <p><u>UPDATED:</u></p> <p>Received GO's request for the January-February 2024 payment applications.</p> <p>B2Z has approved 5 change orders to date.</p> <p>Change Order #1 was approved a concrete pipe cost savings. Precinct #2 purchased the concrete pipe (material) ahead of construction allowing GO to provide the labor and equipment to reduce the cost estimate. GO also modified the construction by casting the 7'x 7' and 12'x 8' concrete boxes in place rather than waiting for prefabricate boxes. This change helped offset an 8-month fabrication delay.</p> <p>Change Order #2 was approved to relocate a City of Hidalgo water line in conflict with the proposed 15" RCP at McColl Rd. CO #2 added new TxDOT standard plan sheets to cast in place the 7'x 5' and the 7'x 7' box culverts.</p> <p>CO #3 was approved to provide new 12'x 8' box culvert standard sheets for a cast in place culvert vs precast boxes in our plans. B2Z engineers provided the 12'x 8' drawing</p> | |

| | |
|---|-------------------|
| <p>standard in-house.</p> <p>CO#4 was approved to extend the 12'x 8' culvert another 24ft north to avoid a high-pressure gas line.</p> <p>CO#5 was approved to construct a new 12'x8' drainage overflow structure on the west side of the Canal.</p> <p>B2Z has approved 9 submittals and responded to 4 requests for information (RFI). The submittals include precast inlets, manholes, concrete pipe, concrete box designs, and new traffic signal equipment at 10th Street and McColl Rd. B2Z approved the bridge shop drawings for concrete piles, bridge deck panels, and concrete girders. All of the material is in storage at fabricators yards waiting to be delivered.</p> <p>We also coordinated with Hidalgo County Irrigation District #2 to approve specific irrigation equipment for valves and gates requested for their District.</p> | |
| <p>Construction Inspection</p> | <p>83%</p> |
| <p><u>UPDATED:</u></p> <p>GO completed the east side of the Las Milpas project in August 2023.</p> <p>GO started on the west side by removing the old 48" HDPE while installing the new 48" RCP from the Main Canal to 10th Street. GO was instructed to follow the 48" alignment changes at 10th Street to recover the exiting conditions across 10th Street. One manhole was eliminated. GO installed the 48" RCP near the abandoned Enterprise gas line. It will remain under the roadway.</p> <p>HCID#3, June 29th, GO was not able to complete the 48" RCP near 10th Street because an ID#3 easement was not identified in our plans. Our plans provided a crossing improvement, but not another easement for ID#3. P2 and B2Z are planning to meet with property owners to discontinue the easement. GO completed installing the 48" RCP from 10th Street to the Arena. GO adjusted two inlets near the arena to relief the drainage situation.</p> <p>GO completed the 12'x 8' box culvert crossing on the west side of the project and is currently backfilling. GO completed the new drainage culvert, CO #5. GO is preparing the site for the bridge construction.</p> | |

| | |
|--|------------|
| <u>Construction Management (Post Construction)</u> | 0% |
| <u>NO UPDATE:</u> <i>Task has not begun.</i> | |
| <u>Direct Expenses</u> | |
| <u>Mileage</u> | 83% |
| <u>UPDATED:</u> The Project Manager visits the site 2-3 Days per Week. Inspector visits the site 5 Days per Week. Lab Technicians visit the site as required for the material testing. | |
| <u>Construction Material Testing (CMT)</u> | 83% |
| <u>UPDATED:</u> B2Z performed the following concrete and density tests for the month of March. <ul style="list-style-type: none"> • B2Z Report No. LMR-26C 56 Day • B2Z Report No. LMR-27C 28 Day • B2Z Report No. LMR-28C 28 Day • B2Z Report No. LMR-29C 7 Day • B2Z Report No. LMR-30C 7 Day • B2Z Report No. LMR-82S • B2Z Report No. LMR-83S | |

Should you have any questions regarding this submittal, please do not hesitate to call me. My cell number (956) 585-3773.

Sincerely,



Saul R. Munoz, P.E.
Project Manager
B2Z Engineering, LLC

Mission Office

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

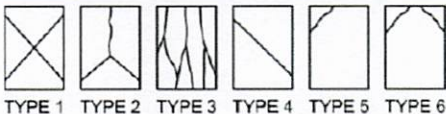
Client:

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

Project:

2309 (C-18-075-02-27)
Las Milpas Rd WA#2-CPS
various
Pharr, TX

| Sample Details | | | | | | | | | | |
|---|---------------------------|-------------------|-----------------------|--------------------------------|----------------------------------|----------------------|--------------------------|---------------|-----------------|----------------|
| Set #: | 30 | Technician: | Manuel De Santiago | Batched: | 05:29 CST | | | | | |
| Specimen Size: | 4 x 8 Cast Cylinder | Cast By: | Manuel De Santiago | Sampled: | 06:30 CST | | | | | |
| Specimens In Set: | 5 | Date Cast: | 03/07/24 | Cast: | 06:40 CST | | | | | |
| Truck / Ticket #: | 10063940 / 48226034 | Sampled From: | Chute | Truck Empty: | 06:50 CST | | | | | |
| Contractor: | Go Underground LLC | Placement Method: | Chute | Placement Time: | 81 (min) | | | | | |
| Location | | | | | | | | | | |
| Placement Location: | Other | | | | | | | | | |
| Location Details: | Hike & Bike Tunnel Box | | | | | | | | | |
| Sample Location / Notes: | Sta.141+05 on the right | | | | | | | | | |
| Batch Log | | | | | | Specifications | | | | |
| Supplier: | Cemex | Mix Design: | 4000 TxDOT CL S-LS | Strength: | 3600 (psi) | | | | | |
| Plant: | 4209A | | | | | | | | | |
| On-Site Admixtures: | None | | | | | | | | | |
| Field Measurements | | | | | | | | | | |
| Weather: | Mostly Sunny | | Slump (in): | 4-1/2 | | Plastic Unit Weight: | | | | |
| Air Temperature (F): | 73 | | Concrete Temp (F): | 83 | | Air Content: | | | | |
| | | | | | | Load Volume: | 10.00 (yd ³) | | | |
| Standard Cure | | | | | Field Cure | | | | | |
| Min / Max Temp (F): | 72/86 | | | | | | | | | |
| 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 |
| 30-1 | 7 | 03/14/24 | 1 / 6 | 4.00 | 12.57 | 53,402 | 4,250 | 2 | R3 | 1 |
| 30-2 | 7 | 03/14/24 | 1 / 6 | 4.00 | 12.57 | 54,176 | 4,310 | 3 | R3 | 1 |
| 30-3 | 28 | 04/04/24 | 1 / 27 | | | | | | | |
| 30-4 | 28 | 04/04/24 | 1 / 27 | | | | | | | |
| 30-5 | 56 | 05/02/24 | 1 / 55 | | | | | | | |
| Test Age Average Strengths (psi): 7 Day - 4280 | | | | | | | | | | |
| | | | | | | | | | Capping Methods | |
| R3: The 7 day test results meets or exceeds the 28 day specified strength. | | | | | | | | | 1: Neoprene Pad | |
| Tested By: Manuel De Santiago (1,2) | | | | | | | | | | |
| Checked In : 03/08/2024 (1,2,3,4,5) | | | | | | | | | | |



Respectfully Submitted by B2Z Engineering

Jorge Solis, Laboratory 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:

2309 (C-18-075-02-27)
Las Milpas Rd WA#2-CPS
various
Pharr, TX

| Sample Details | | | | | |
|-------------------|---------------------|-------------------|--------------------|-----------------|-----------|
| Set #: | 29 | Technician: | Manuel De Santiago | Batched: | 07:50 CST |
| Specimen Size: | 4 x 8 Cast Cylinder | Cast By: | Manuel De Santiago | Sampled: | 08:55 CST |
| Specimens In Set: | 5 | Date Cast: | 02/26/24 | Cast: | 09:05 CST |
| Truck / Ticket #: | 10063912 / 48204417 | Sampled From: | Chute | Truck Empty: | 09:20 CST |
| Contractor: | Go Underground LLC | Placement Method: | Chute | Placement Time: | 90 (min) |

| Location | |
|--------------------------|--------------------------|
| Placement Location: | Other |
| Location Details: | 12x8 Hike & Bike Tunnel |
| Sample Location / Notes: | Sta. 141+05 on the right |

| Batch Log | | | Specifications | | |
|---------------------|-------|-------------|--------------------|-----------|------------|
| Supplier: | Cemex | Mix Design: | 4000 TxDOT CL S-LS | Strength: | 3600 (psi) |
| Plant: | 4209A | | | | |
| On-Site Admixtures: | None | | | | |

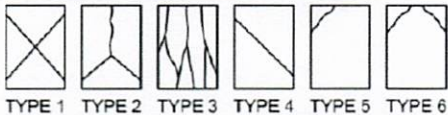
| Field Measurements | | | | | |
|----------------------|---------------|--------------------|----|----------------------|--------------------------|
| Weather: | Mostly Cloudy | Slump (in): | 4 | Plastic Unit Weight: | |
| Air Temperature (F): | 75 | Concrete Temp (F): | 78 | Air Content: | |
| | | | | Load Volume: | 10.00 (yd ³) |

| Standard Cure | | Field Cure | |
|----------------------|---------------------------|------------|--|
| Min / Max Temp (F): | 66/90 | | |
| 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 |
|-----------------|---------------|-----------|-----------------------|--------------------------------|----------------------------------|----------------|----------------|---------------|--------------|----------------|
| 29-1 | 7 | 03/04/24 | 1 / 6 | 4.00 | 12.57 | 52,816 | 4,200 | 3 | R3 | 1 |
| 29-2 | 7 | 03/04/24 | 1 / 6 | 4.00 | 12.57 | 55,962 | 4,450 | 3 | R3 | 1 |
| 29-3 | 28 | 03/25/24 | 1 / 27 | | | | | | | |
| 29-4 | 28 | 03/25/24 | 1 / 27 | | | | | | | |
| 29-5 | 56 | 04/22/24 | 1 / 55 | | | | | | | |

| Test Age Average Strengths (psi): 7 Day - 4330 | | Capping Methods | |
|--|--|-----------------|--|
| R3: The 7 day test results meets or exceeds the 28 day specified strength. | | 1: Neoprene Pad | |
| Tested By: Jorge Solis (1,2) | | | |
| Checked In : 02/27/2024 (1,2,3,4,5) | | | |



Respectfully Submitted by B2Z Engineering

Jorge Solis

Jorge Solis, Laboratory 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:

2309 (C-18-075-02-27)
Las Milpas Rd WA#2-CPS
various
Pharr, TX

| Sample Details | | | |
|-------------------|---------------------|-------------------|----------------------|
| Set #: | 28 | Technician: | Luis Villarreal, Jr. |
| Specimen Size: | 4 x 8 Cast Cylinder | Cast By: | Luis Villarreal, Jr. |
| Specimens In Set: | 5 | Date Cast: | 02/12/24 |
| Truck / Ticket #: | 10063940 / 48178199 | Sampled From: | Chute |
| Contractor: | Go Underground | Placement Method: | Bucket |
| Batched: | 07:35 CST | Sampled: | 08:30 CST |
| | | Cast: | 08:35 CST |
| | | Truck Empty: | 09:03 CST |
| | | Placement Time: | 88 (min) |

| Location | |
|--------------------------|----------------|
| Placement Location: | Footing |
| Location Details: | Tunnel Footing |
| Sample Location / Notes: | Sta 141+05 |

| Batch Log | | Specifications | |
|---------------------|-------|----------------|--------------------|
| Supplier: | Cemex | Mix Design: | 4000 TxDOT CL S-LS |
| Plant: | 4209A | Strength: | 3600 (psi) |
| On-Site Admixtures: | None | | |

| Field Measurements | | | |
|----------------------|-------|----------------------|--------------------------|
| Weather: | Sunny | Slump (in): | 5-1/4 |
| Air Temperature (F): | 53 | Concrete Temp (F): | 67 |
| | | Plastic Unit Weight: | |
| | | Air Content: | |
| | | Load Volume: | 10.00 (yd ³) |

| Standard Cure | | Field Cure | |
|----------------------|---------------------------|------------|--|
| Min / Max Temp (F): | 53/72 | | |
| Initial Cure Method: | Plastic Cover/Lid/Blanket | | |
| Final Cure Method: | Water Storage Tank | | |

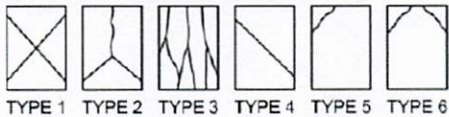
Lab Test Results

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 |
|-----------------|---------------|-----------|-----------------------|--------------------------------|----------------------------------|----------------|----------------|---------------|--------------|----------------|
| 28-1 | 7 | 02/19/24 | 1 / 6 | 4.00 | 12.57 | 64,357 | 5,120 | 3 | R3 | 1 |
| 28-2 | 7 | 02/19/24 | 1 / 6 | 4.00 | 12.57 | 65,536 | 5,210 | 3 | R3 | 1 |
| 28-3 | 28 | 03/11/24 | 1 / 27 | 4.00 | 12.57 | 72,538 | 5,770 | 3 | R6 | 1 |
| 28-4 | 28 | 03/11/24 | 1 / 27 | 4.00 | 12.57 | 73,894 | 5,880 | 2 | R6 | 1 |
| 28-5 | 56 | 04/08/24 | 1 / 55 | | | | | | | |

Test Age Average Strengths (psi): 7 Day - 5170, 28 Day - 5830

| Capping Methods | |
|--|-----------------|
| <p>R3: The 7 day test results meets or exceeds the 28 day specified strength. R6: The 28 day test results meets or exceeds the 56 day specified strength. Tested By: Jorge Solis (1,2,3,4) Checked In : 02/13/2024 (1,2,3,4,5)</p> | 1: Neoprene Pad |



Respectfully Submitted by B2Z Engineering

Jorge Solis

Jorge Solis, Laboratory 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:

2309 (C-18-075-02-27)
 Las Milpas Rd WA#2-CPS
 various
 Pharr, TX

| Sample Details | | | |
|-------------------|---------------------|-------------------|--------------------|
| Set #: | 27 | Technician: | Manuel De Santiago |
| Specimen Size: | 4 x 8 Cast Cylinder | Cast By: | Manuel De Santiago |
| Specimens In Set: | 5 | Date Cast: | 01/31/24 |
| Truck / Ticket #: | 10063937 / 48161728 | Sampled From: | Chute |
| Contractor: | Go Underground | Placement Method: | Chute |
| Batched: | 13:04 CST | Sampled: | 14:05 CST |
| | | Cast: | 14:15 CST |
| | | Truck Empty: | 14:30 CST |
| | | Placement Time: | 86 (min) |

| Location | |
|--------------------------|--------------------|
| Placement Location: | Headwall/Wingwall |
| Location Details: | East Side Wingwall |
| Sample Location / Notes: | Sta. 141+50 |

| Batch Log | | Specifications | |
|---------------------|-------|----------------|--------------------|
| Supplier: | Cemex | Mix Design: | 4000 TxDOT CL S-LS |
| Plant: | 4209A | Strength: | 3600 (psi) |
| On-Site Admixtures: | None | | |

| Field Measurements | | | |
|----------------------|--------|----------------------|-------------------------|
| Weather: | Cloudy | Slump (in): | 4-1/2 |
| Air Temperature (F): | 75 | Concrete Temp (F): | 81 |
| | | Plastic Unit Weight: | |
| | | Air Content: | |
| | | Load Volume: | 6.50 (yd ³) |

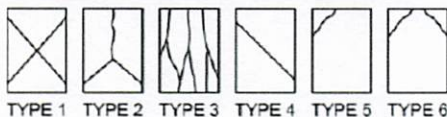
| Standard Cure | | Field Cure | |
|----------------------|---------------------------|------------|--|
| Min / Max Temp (F): | 58/77 | | |
| Initial Cure Method: | Plastic Cover/Lid/Blanket | | |
| Final Cure Method: | Water Storage Tank | | |

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 |
|-----------------|---------------|-----------|-----------------------|--------------------------------|----------------------------------|----------------|----------------|---------------|--------------|----------------|
| 27-1 | 7 | 02/07/24 | 1 / 6 | 4.00 | 12.57 | 28,948 | 2,300 | 2 | F3 | 1 |
| 27-2 | 7 | 02/07/24 | 1 / 6 | 4.00 | 12.57 | 60,116 | 4,780 | 3 | R3 | 1 |
| 27-3 | 28 | 02/28/24 | 1 / 27 | 4.00 | 12.57 | 76,126 | 6,060 | 3 | R6 | 1 |
| 27-4 | 28 | 02/28/24 | 1 / 27 | 4.00 | 12.57 | 76,190 | 6,060 | 3 | R6 | 1 |
| 27-5 | 56 | 03/27/24 | 1 / 55 | | | | | | | |

Test Age Average Strengths (psi): 7 Day - 3540, 28 Day - 6060

| Capping Methods | |
|---|-----------------|
| F3: The 7 day test results did not meet the specifications. R3: The 7 day test results meets or exceeds the 28 day specified strength. R6: The 28 day test results meets or exceeds the 56 day specified strength. Tested By: Jorge Solis (1,2), Manuel De Santiago (3,4) Checked In : 02/01/2024 (1,2,3,4,5) | 1: Neoprene Pad |



Respectfully Submitted by B2Z Engineering

Jorge Solis
 Jorge Solis, Laboratory Manager

Mission Office

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

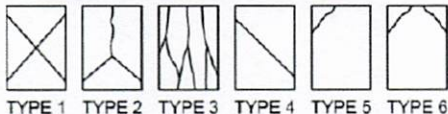
Client:

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

Project:

2309 (C-18-075-02-27)
Las Milpas Rd WA#2-CPS
various
Pharr, TX

| Sample Details | | | | | | | | | | | | |
|---|---------------------------|--------------------|-----------------------|--------------------------------|----------------------------------|----------------|----------------|---------------|--------------|-----------------|--|--|
| Set #: | 26 | Technician: | Luis Villarreal, Jr. | Batched: | 09:24 CST | | | | | | | |
| Specimen Size: | 4 x 8 Cast Cylinder | Cast By: | Luis Villarreal, Jr. | Sampled: | 10:31 CST | | | | | | | |
| Specimens In Set: | 5 | Date Cast: | 01/24/24 | Cast: | 10:36 CST | | | | | | | |
| Truck / Ticket #: | 10063937 / 48151757 | Sampled From: | Chute | Truck Empty: | 10:43 CST | | | | | | | |
| Contractor: | Go Underground | Placement Method: | Bucket | Placement Time: | 79 (min) | | | | | | | |
| Location | | | | | | | | | | | | |
| Placement Location: | Headwall/Wingwall | | | | | | | | | | | |
| Location Details: | Sta 141+50 | | | | | | | | | | | |
| Sample Location / Notes: | Wing wall | | | | | | | | | | | |
| Batch Log | | | | | | Specifications | | | | | | |
| Supplier: | Cemex | Mix Design: | 4000 TxDOT CL S-LS | Strength: | 3600 (psi) | | | | | | | |
| Plant: | 4209A | | | | | | | | | | | |
| On-Site Admixtures: | None | | | | | | | | | | | |
| Field Measurements | | | | | | | | | | | | |
| Weather: | Cloudy | Slump (in): | 5 | Plastic Unit Weight: | | | | | | | | |
| Air Temperature (F): | 70 | Concrete Temp (F): | 75 | Air Content: | | | | | | | | |
| | | | | Load Volume: | 10.00 (yd ³) | | | | | | | |
| Standard Cure | | | | | | Field Cure | | | | | | |
| Min / Max Temp (F): | 66/75 | | | | | | | | | | | |
| 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 | | |
| 26-1 | 7 | 01/31/24 | 1 / 6 | 4.00 | 12.57 | 65,045 | 5,180 | 3 | R3 | 1 | | |
| 26-2 | 7 | 01/31/24 | 1 / 6 | 4.00 | 12.57 | 67,649 | 5,380 | 3 | R3 | 1 | | |
| 26-3 | 28 | 02/21/24 | 1 / 27 | 4.00 | 12.57 | 72,794 | 5,790 | 3 | R6 | 1 | | |
| 26-4 | 28 | 02/21/24 | 1 / 27 | 4.00 | 12.57 | 74,690 | 5,940 | 3 | R6 | 1 | | |
| 26-5 | 56 | 03/20/24 | 1 / 55 | 4.00 | 12.57 | 81,360 | 6,470 | 3 | R9 | 1 | | |
| Test Age Average Strengths (psi): 7 Day - 5280, 28 Day - 5870, 56 Day - 6470 | | | | | | | | | | | | |
| | | | | | | | | | | Capping Methods | | |
| R3: The 7 day test results meets or exceeds the 28 day specified strength. R6: The 28 day test results meets or exceeds the 56 day specified strength. R9: The 56 day test results meets specifications. Tested By: Jorge Solis (1,2,3,4,5) Checked In : 01/25/2024 (1,2,3,4,5) | | | | | | | | | | 1: Neoprene Pad | | |



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:

2309 (C-18-075-02-27)
 Las Milpas Rd WA#2-CPS
 various
 Pharr, TX

General Information

| | |
|---------------------------------|--|
| Sample Date: 03/14/2024 | Sample Number: 5499 |
| Sample From: Stockpile | Material Type: Embankment Fill |
| Technician: Ramiro Cantu | Location Details: 20' west of wing wall foundation Southside Sta:141+05 on the right |

Atterberg Limits

| Liquid Limit (%) | Plastic Limit (%) | Plastic Index | Specification Requirements | Pass/Fail |
|------------------|-------------------|---------------|----------------------------|-----------|
| 28 | 13 | 15 | 8-30 | Pass |

| | |
|--|---------------------------------------|
| Test Completed Date: 03/14/2024 | Test Completed By: Jorge Solis |
|--|---------------------------------------|

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



Jorge Solis, Laboratory Manager

Client:

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

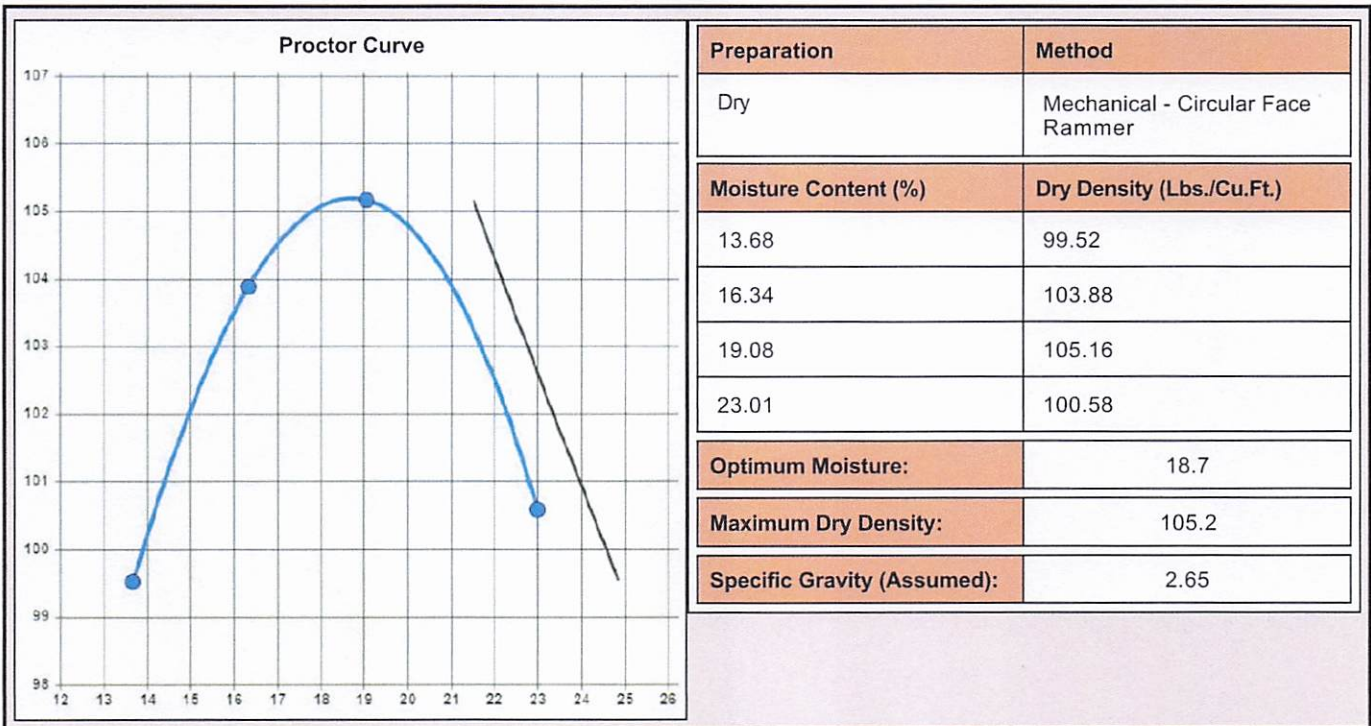
Project:

2309 (C-18-075-02-27)
Las Milpas Rd WA#2-CPS
various
Pharr, TX

General Information

| | | | |
|--------------|--------------|-------------------|---|
| Sample Date: | 03/14/2024 | MF Sample Number: | 5499 |
| Sample From: | Stockpile | Material Type: | Embankment Fill |
| Sampled By: | Ramiro Cantu | Location Details: | 20' west of wing wall foundation Southside Sta:141+05 on the right |

Test Results



| | | | |
|----------------------|------------|--------------------|-------------|
| Test Completed Date: | 03/19/2024 | Test Completed By: | Jorge Solis |
|----------------------|------------|--------------------|-------------|

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



Purchase Order COUNTY OF HIDALGO

PO# 856176

DATE: 11/15/22

PAGE NO: 1 Of 1

PO TYPE:

VENDOR: 449121

REQ: 00463284

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 NO: C-18-075-02-27

SPECIAL INSTRUCTIONS:

VENDOR NOTES

1. Do not add to, or alter this Purchase Order. This Order is not renewable.
2. TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
3. This Order is also placed F.O.B. Destination. Vendor must repay all shipping costs.
4. 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.
5. 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 | | |
| | | SAMS: #DZK2ZFJGB729 | | |
| | | AI - 86927 AS APPROVED BY CC ON 08/09/2022 FOR WA#2 | | |
| | | CONTINUATION OF ONGOING PROJECT AI-63894 AS APPROVED BY CC ON 02/27/2022 C-18-075-02-27 FOR WA#1 | | |
| | | C-18-075-02-27 UPON COMPLETION OF THE PROJECT - PCT 2 LAS MILPAS ROAD (FROM SH 336 (10TH ST) TO MCCOLL RD) PROJECT | | |
| | | WORK AUTHORIZATION#2 APPROVED BY CC 08/09/22 AI#86927 | | |
| 1.00 | LOT | CC WORK AUTHORIZATION NO. 2 TO PROVIDE CONSTRUCTION PHASE SERVICES (CONSTRUCTION MANAGEMENT, INSPECTION, MATERIAL TESTING) FOR THE PCT 2 LAS MILPAS ROAD (FROM SH 336 (10TH ST) TO MCCOLL RD) PROJECT | 339,560.0700 | 339,560.07 |
| | | TOTAL: | | 339,560.07 |
| | | REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233 | | |
| | | ***** | | |
| | | 4 For Hidalgo County use only | | |
| | | 2-1358-431-00-122-147-0-841 | 339,560.07 | |

Authorized by: _____