

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

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

## Invoice

Date	Invoice #
4/1/2021	20290

PO # 803856  
1 - 1315-431-00-122-062-0-721  
Req # 400015

Please send remittance with copy of invoice to:

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

\$ 624.02  
pay direct

Bill To:  
Hidalgo County Precinct #2  
300 West Hall Acres, Suite G  
Pharr, TX 78577

Project Info:  
Hidalgo County Precinct #2  
Contract # C-19-016-08-13  
Work Authorization #1  
Dicker Road

B2Z JOB: 2302  
PO # 803856


received 4/1/21  
eg

Billing Period March 2021

Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete	Bal
<b>Construction Contract Administration</b>	\$ 97,306.46	\$ 70,060.65	\$ 2,919.19	\$ 72,979.84	75%	24,326.62
<b>Construction Management &amp; Inspection</b>						
Tasks 1-9 - Construction Mgmt (During Construction)	\$ 126,576.02	\$ 91,134.73	\$ 3,797.29	\$ 94,932.02	75%	31,644.00
Tasks 1-6 - Construction Inspection	\$ 523,745.88	\$ 377,097.03	\$ 15,712.38	\$ 392,809.41	75%	130,936.47
Tasks 1-3 - Construction Mgmt (Post Construction)	\$ 9,886.64	\$ -	\$ -	\$ -	0%	9,886.64
<b>Miscellaneous Technical Activities</b>	\$ 64,458.50	\$ 46,410.13	\$ 1,933.76	\$ 48,343.89	75%	16,114.61
<b>Direct Expenses</b>						
Mileage	\$ 10,569.42	\$ 7,609.98	\$ 317.08	\$ 7,927.06	75%	2,642.36
CMT	\$ 332,938.60	\$ 239,715.79	\$ 9,988.16	\$ 249,703.95	75%	83,234.65
Supplemental #2 to Work Authorization #1	1,165,481.52	832,028.31		866,696.17		
<b>Construction Contract Administration</b>	\$ 20,177.80	\$ 19,774.24	\$ -	\$ 19,774.24	98%	403.56
<b>Construction Management &amp; Inspection</b>						
Tasks 1-9 - Construction Mgmt (During Construction)	\$ 8,165.74	\$ 8,002.43	\$ -	\$ 8,002.43	98%	163.31
Tasks 1-6 - Construction Inspection	\$ 22,401.42	\$ 21,953.39	\$ -	\$ 21,953.39	98%	448.03
Tasks 1-3 - Construction Mgmt (Post Construction)	\$ 1,750.74	\$ 1,313.06	\$ -	\$ 1,313.06	75%	437.68
<b>Miscellaneous Technical Activities</b>	\$ 3,399.65	\$ 3,331.66	\$ -	\$ 3,331.66	98%	67.99
<b>Direct Expenses</b>						
Mileage	\$ 1,170.00	\$ 1,170.00	\$ -	\$ 1,170.00	100%	0
CMT	\$ 32,879.40	\$ 32,879.40	\$ -	\$ 32,879.40	100%	0
<b>Total For This Billing Period</b>	89,944.75	88,424.18	34,667.86	88,424.18		300,305.92
						\$34,667.86

### Work Authorization ~ Summary

WA No.	WA Amount	Previously Inv.	Percent Complete	Remaining Balance
1	\$1,255,426.27	\$920,452.49	76.08%	\$300,305.92

  
Aisha Gonzalez - President

\$ 34,667.86 x 1.8% = \$ 624.02  
\$ 34,667.86 x 18.2% = \$ 6,309.55  
\$ 34,667.86 x 80% = \$ 27,734.29

INVOICE RECEIVED BY:

Lupita Garza ON 4/1/21

GOODS/SERVICES RECEIVED BY:

Eddie Cantu ON 03/01-31/21

eg 4/8/21

PO # N/A  
1 - 1315-126-20-122-028-0-000  
Req # N/A \$ 6,309.55

PO # N/A  
1 - 1315-126-10-122-008-0-000  
Req # N/A \$ 27,734.29

April 1, 2021

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

**RE: Professional Engineering Services (C-19-016-08-13)  
Work Authorization No. 1 ~ Precinct No. 2 ~ Dicker Road Project  
PO #803856**

Dear Commissioner Cantu:

Attached for your review and approval is our invoice for services rendered under Work Authorization #1 during the month of March 2021 on the subject referenced project.

The following is attached:

- Invoice No. 20290

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

TASK	% Complete
<b>1 - Construction Contract Administration</b>	<b>75%</b>
<p><b><u>UPDATED:</u></b> B2Z conducted a status meeting with Precinct #2 informally to discuss status of the project with respect to construction, time charges, subcontractor's performance, changes in plans, plan errors, residential concerns, and a few comments from the Drainage District on Dicker Road. The attendees of the status meeting included Armando Garza (RPIC), Erika Zamora and Jorge Hinojosa. The B2Z staff included Saul Muñoz and Stanley Ramos.</p> <p>B2Z continues maintaining communication with Precinct #2 personnel to provide updated information on the contractor's progress, on utility controls, on the project controls, on the material control, and for the next Change Order. The next CO #8 and the McAllen PU will provide funds for the additional work to cross the McColl Intersection. The work includes additional casing, additional 12" waterline and connections to cross the intersection.</p> <p>Earthworks did not submit an updated Critical Path Method (CPM) schedule in February or March 2021. They have been notified.</p>	

<p>The last January CPM schedule shows our completion date as of June 2021. This is approximately four months ahead of schedule.</p> <p>B2Z office is managing office business by both cell phone or video conferencing during the COVID-19 epidemic to minimize personal contact. The staff is required to wear facemasks and practice social distancing. Most of the field personnel manage their daily business by cell phone, but also meet face to face to discuss critical work, pay discrepancies, pay quantities, testing requirements, public concerns, and business concerns.</p> <p>B2Z continues coordinating the contract administration activities with Armando Garza (County RPIC), Earthworks (Contractor), TEDSI (Design Engineer), McAllen Public Utility, City of McAllen, City of Hidalgo, Hidalgo County Irrigation District #2 and Ms. Nayelay Parra the new TxDOT RPIC.</p> <p>B2Z has been very successful identifying cost savings opportunities for Pct#2. Their vast experiences and innovative thinking reduced the initial construction costs without affecting the pavement design of the project. To date, seven change orders have been approved for Dicker Road, totaling -\$834,204.56. The seven change orders include additional work to correct a few plan errors identified by the contractor and the additional waterline work request by McAllen PU. B2Z will continue to provide quality inspection while exploring for additional savings opportunities for Precinct #2.</p> <p>B2Z is working closely with the Precinct #2, the Contractor, and the Engineer of Record to ensure that all change orders and utility adjustments are included into the final Dicker Road as-built plans.</p>	
<p><b>- Construction Management &amp; Inspection</b></p>	
<p><b>Tasks 1-9 Construction Management (During Construction)</b></p>	<p><b>75%</b></p>
<p><b><u>UPDATED:</u></b>  B2Z is currently reviewing invoices and processing pay estimates for the month of March.</p> <p>B2Z coordinated the new subcontractor approvals with the County.</p> <p>B2Z continues to implement the Quality Assurance Plan. B2Z has completed the 30% and 50% audits.</p>	

<p>B2Z provided contractor certification statements with each monthly estimate.</p> <p>B2Z continues coordinating the Dicker Road Notice of Intent (NOI) with TECQ and the County.</p> <p>B2Z is working closely with the Contractor and Subcontractors to coordinate weekly work schedules ahead of material deliveries.</p> <p>B2Z also conducts regularly scheduled field meetings with the Hidalgo County Drainage District, the McAllen Public Utility, the City of McAllen, the City of Hidalgo, and Utility Owners to discuss change orders, utility adjustments/impacts and the work in progress. This eliminates the need for many formal RFI's.</p> <p>The McAllen PU waterline is complete between 23<sup>rd</sup> Street &amp; McColl Road. McAllen PU wants to extend the line a little further but has not provide details for the extension, another 170 ft. to the east. It will require additional cut off valves, 12" PVC, 45-degree bends, the steel casing and caps at the end of each line.</p> <p>Earthworks identified two fire hydrants that needed repair. McAllen PU indicated that they would pay for the repair. B2Z is still requesting invoices from Earthworks.</p>	
<p><b>Tasks 1-6 Construction Inspection</b></p>	<p><b>75%</b></p>
<p><b><u>UPDATED:</u></b></p> <p><b><u>B2Z Inspections:</u></b></p> <ul style="list-style-type: none"> <li>▪ B2Z prepared daily pay sheets for all work performed.</li> <li>▪ B2Z conducts daily job-site inspections and documents the construction progress in the project diary.</li> <li>▪ B2Z barricade inspections include one-day and one-night inspections each month. The contractor is required to address deficiencies as soon as possible.</li> <li>▪ B2Z performs the bimonthly SW3P reports indicating compliance.</li> <li>▪ B2Z assures traffic safety by verifying that the proper project barricading is in place, as established by the plans or by change order.</li> <li>▪ B2Z assures that all safety measures are being followed for proper personal protection equipment (PPE), proper vehicular safety, proper fall protection equipment and for the proper COVID-19 mask requirements in the field.</li> </ul>	

- B2Z assures that the proper trench protection is being used, including sloping banks, includes using trench boxes and includes using sheet piling to install the 9x7 and 7x5 RC boxes at the Main Canal.
- B2Z assured that all materials deliver to and used within the project meet the project specifications.

**UPDATED:**

**Traffic Control:**

The original traffic control plan was modified to expedite the roadway construction. The revised traffic control plans closed off long segments of Dicker Road, while detouring traffic around construction. The traffic control was broken down into the three Phases below:

- Phase I – CO #1 – 100% Complete – Dicker Road has been open to traffic, substantially complete. Substantially complete.
- Phase II – CO #5 – 100% Complete – Opened Dicker Road on December 8<sup>th</sup>, 2020 between McColl Road and Jackson Ave. Substantially complete.
- Phase III – CO #7 – 40% Complete – Closed to Traffic December 11<sup>th</sup>, 2020 – (Closed to traffic between 10th Street and McColl Road. All traffic will be detoured to the south, while reconstruct the entire roadway.

**UPDATED:**

**Construction:** Dicker Road, the construction between McColl Road to Jackson Road include:

- Earthworks – Removed asphalt millings.
- Earthworks – Stockpiled caliche salvage
- Earthworks – Removing embankment to 10<sup>th</sup> Street and preparing subgrade.
- Earthworks – Liming the subgrade, salvage, and new caliche.
- Earthworks – Installing curb and gutter.
- Earthworks – Installing turnouts.
- GO – Connect to the existing 7’ x 5’ RCB at the P-SJ Main Outfall on south side of Dicker Road.
  - GO – Install sheet piling on the south side of the 7x5 RCB at the P-SJ Main Canal, both sides of Dicker Road.
- GO – Installed last of the 24”30” RCP on Laterals.
- Lucania – Completed abutment backwalls, armor joint and SSTR concrete rail. Waiting for rubber seal and backer rods.

<p><b>Construction from 23<sup>rd</sup> St. to 10<sup>th</sup> Street is Complete (Road Opened to Traffic)</b></p> <p><b>Construction from McColl Road to Jackson Road is Complete (Road Open to Traffic)</b></p>	
<p><b>Tasks 1-3 Construction Management (Post Construction)</b></p>	<p><b>0%</b></p>
<p><b><u>NO UPDATE:</u></b> <i>This task has not begun.</i></p>	
<p><b>3 – Miscellaneous Technical Activities</b></p>	<p><b>75%</b></p>
<p><b><u>UPDATED:</u></b></p> <p>B2Z is coordinating the adjust utilities that will impact the proposed construction.</p> <ul style="list-style-type: none"> <li>▪ B2Z continues to work closely with property owners to provide information and to respond to request for information, driveways, and business complaints.</li> <li>▪ B2Z continues coordinating with all stakeholders to discuss change orders before finalizing.</li> <li>▪ Provide final as built plan of the final waterline location and all other utilities.</li> </ul>	
<p><b>4 – Direct Expenses (Mileage)</b></p>	<p><b>75%</b></p>
<p><b><u>UPDATED:</u></b></p> <p>B2Z has conducted the following activities that required vehicle travel:</p> <ul style="list-style-type: none"> <li>▪ Superintendent/Inspector job-site inspections – Daily</li> <li>▪ Project Manager site visits – 3/week</li> <li>▪ Laboratory Inspector testing – Daily</li> <li>▪ Earthworks Meetings – 1/week</li> <li>▪ Hidalgo County Precinct No. 2 Status Meetings – 1/month</li> <li>▪ McAllen PU 12” Waterline meetings – 1/week</li> <li>▪ Hidalgo County Irrigation District #2 – 1/week</li> <li>▪ L&amp;G Utility Meetings – 1/week</li> </ul>	

<b>4 – Direct Expenses (CMT)</b>	<b>75%</b>
<p><b><u>UPDATED:</u></b></p> <ul style="list-style-type: none"> <li>▪ B2Z continues with concrete testing requirements for bridge elements including concrete beams, panels, piles, and steel armor joints.</li> <li>▪ The B2Z Laboratory continues to monitor and verify TxDOT material producers that are approved for the project.</li> <li>▪ B2Z continues to monitor TxDOT’s concrete and hot mix approved designs. Contractor is using three Companies to provide asphalt due to serviceability problems.</li> <li>▪ Sampled salvage and new base material for stockpiling, and a moisture density curve.</li> <li>▪ Backfill testing of reinforced concrete boxes.</li> </ul>	

**City of McAllen  
12” Water Line  
Supplemental #2 to WA#1**

<b>TASK</b>	<b>% Complete</b>
<b>1 - Construction Contract Administration</b>	<b>98%</b>
<p><b><u>NO UPDATE:</u></b></p> <p>Teleconference with Carlos Gonzalez discussing the status of the project and to introduce one change order before closing out the project. McAllen PU request additional work to the original plans to extend the line across McColl Road. Precinct #2 and B2Z will work with McAllen PU on CO #8 to install as much of the water line as possible before closing out all work.</p> <p>The line currently begins at 23<sup>rd</sup> Street and is installed on the 5’ north alignment. It crosses 10<sup>th</sup> Street and stops on the west side of the Main Canal between 10<sup>th</sup> and McColl Rd. It starts up again on the east side of the Main Canal on the same 5’ alignment, 4’ deep and stopping on the west side of McColl Road Intersection.</p>	

<b>2 – Construction Management &amp; Inspection</b>	
<b>Tasks 1-9 Construction Management (During Construction)</b>	<b>98%</b>
<b><u>NO UPDATE:</u></b> Pending CO #8 requested by McAllen PU.	
<b>Tasks 1-6 Construction Inspection</b>	<b>98%</b>
<b><u>NO UPDATE:</u></b> Pending CO #8 requested by McAllen PU.	
<b>Tasks 1-3 Construction Management (Post Construction)</b>	<b>75%</b>
<b><u>UPDATED:</u></b> B2Z reconciling quantities and plan sheet modifications to initiate final quantities and a final as built set of plans.	
<b>3 – Miscellaneous Technical Activities</b>	<b>98%</b>
<b><u>NO UPDATE:</u></b> Pending CO #8 requested by McAllen PU.	
<b>4 – Direct Expenses (Mileage)</b>	<b>100%</b>
<b><u>NO UPDATE:</u></b> Pending CO #8 requested by McAllen PU.	

<b>4 – Direct Expenses (CMT)</b>	<b>100%</b>
<b><u>NO UPDATE:</u></b> Pending CO #8 requested by McAllen PU.	

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

Sincerely,



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