

# B2Z ENGINEERING

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

PO # 803856  
0-1200-431-00-122-062-0-841  
Req # 400015 **\$3,400.80**  
Invoice

Date	Invoice #
1/4/2021	20274

PO # N/A  
Req # 0-1315-126-20-122-028-0-000  
**\$12,048.42**

PO # N/A  
Req # 0-1315-126-10-122-008-0-000  
**\$59,900.08**

PO # 803856  
0-1315-431-00-122-062-0-721  
Req # 400015  
**\$1,191.60**  
**pay direct**

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

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

B2Z JOB: 2302  
PO # 803856

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

Billing Period	December 2020					
Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete	
Construction Contract Administration	\$ 97,306.46	\$ 57,410.81	\$ 3,892.26	\$ 61,303.07	63%	<b>36,003.39</b>
Construction Management & Inspection						
Tasks 1-9 - Construction Mgmt (During Construction)	\$ 126,576.02	\$ 74,679.85	\$ 5,063.04	\$ 79,742.89	63%	<b>46,833.13</b>
Tasks 1-6 - Construction Inspection	\$ 523,745.88	\$ 309,010.07	\$ 20,949.83	\$ 329,959.90	63%	<b>193,785.98</b>
Tasks 1-3 - Construction Mgmt (Post Construction)	\$ 9,886.64	\$ -	\$ -	\$ -	0%	<b>9,886.64</b>
Miscellaneous Technical Activities	\$ 64,458.50	\$ 38,030.53	\$ 2,578.34	\$ 40,608.87	63%	<b>23,849.63</b>
Direct Expenses						
Mileage	\$ 10,569.42	\$ 6,235.96	\$ 422.77	\$ 6,658.73	63%	<b>3,910.69</b>
CMT	\$ 332,938.60	\$ 183,116.23	\$ 33,293.86	\$ 216,410.09	65%	<b>116,528.51</b>
Supplemental #2 to Work Authorization #1	<b>1,165,401.52</b>	<b>668,483.45</b>	<b>66,200.10</b>	<b>734,683.55</b>		<b>430,797.97</b>
Construction Contract Administration	\$ 20,177.80	\$ 19,168.91	\$ -	\$ 19,168.91	95%	<b>1,008.89</b>
Construction Management & Inspection						
Tasks 1-9 - Construction Mgmt (During Construction)	\$ 8,165.74	\$ 7,349.17	\$ 408.28	\$ 7,757.45	95%	<b>408.29</b>
Tasks 1-6 - Construction Inspection	\$ 22,401.42	\$ 20,161.28	\$ 1,120.07	\$ 21,281.35	95%	<b>1,120.07</b>
Tasks 1-3 - Construction Mgmt (Post Construction)	\$ 1,750.74	\$ 875.37	\$ -	\$ 875.37	50%	<b>875.37</b>
Miscellaneous Technical Activities	\$ 3,399.65	\$ 3,059.69	\$ 169.98	\$ 3,229.67	95%	<b>169.98</b>
Direct Expenses						
Mileage	\$ 1,170.00	\$ 1,053.00	\$ 58.50	\$ 1,111.50	95%	<b>58.50</b>
CMT	\$ 32,879.40	\$ 29,591.46	\$ 1,643.97	\$ 31,235.43	95%	<b>1,643.97</b>
	<b>89,944.75</b>	<b>81,258.88</b>	<b>3,400.80</b>	<b>84,659.68</b>		<b>5,285.07</b>
Total For This Billing Period					\$69,600.90	

**Work Authorization ~ Summary**

WA No.	WA Amount	Previously Inv.	Percent Complete	Remaining Balance
1	\$1,255,426.27	\$749,742.33	65.26%	\$436,083.04

  
Aisha Gonzalez - President

$\$66,200.10 \times 1.8\% = \$1,191.60$   
 $\$66,200.10 \times 18.2\% = \$12,048.42$   
 $\$66,200.10 \times 80\% = \$52,960.08$

INVOICE RECEIVED BY:  
Elizabeth Alvarez ON 1/5/21  
GOODS/SERVICES RECEIVED BY:  
Eddie Cantu ON 12/01-31/20

eg. 1/5/21

January 4, 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 December 2020 on the subject referenced project.

The following is attached:

- Invoice No. 20274 ✓

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

TASK	% Complete
<b>1 - Construction Contract Administration</b>	<b>63%</b>
<p>UPDATED: B2Z conducted the last informal status meeting with Precinct #2 on December 3rd, 2020 via teleconference to discuss status of the project with respect to project completion, time charges, subcontractor's performance, changes in plans, plan errors and a few residential concerns on Dicker Road.</p> <p>The attendees included Armando Garza (RPIC), Erika Zamora, Jorge Hinojosa, Roy Garcia. The B2Z staff included Saul Munoz and Stanley Ramos. B2Z continues maintaining daily communication with Precinct #2 personnel to discuss contractors progress, the project controls, the control of materials and a few plan errors. The major topic of discussion was change order #7 and the significant cost savings it introduces. Change Order #7 includes multiple plan changes, but most importantly the third traffic control modification that closes Dicker Road to traffic between 10th Street and McColl Avenue. The change eliminates the need for traffic phasing as planned, to save funds and accelerate construction.</p>	

The last Critical Path (CPM) Schedule submitted on 9-26-2020 has the Project ahead of schedule, with a completion date of June 3, 2021. B2Z is working closely with the County, the Contractor and Engineer of Record to ensure that the change orders and utility adjustments are included into the final Dicker Road as-built plans.

B2Z office continues managing office business by cell phone or video conferencing during the COVID-19 epidemic to minimize personal contact, wear facemasks and practice social distancing. Field personnel manage daily business by cell phone and/or if necessary, meet face to face to discuss critical work, pay quantities, testing requirements, public concerns, and business.

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.

B2Z and TEDSI Engineering verified another irrigation line discovered leaking behind the Valley View School fence line. The line had a small leak and HCID#2 asked Precinct #2 to replace the line. TEDSI provided a platted document verifying the placement of the line, and its proper location outside of the Dicker Road ROW. One final utility adjustment relocates a few poles on the east side of Jackson Blvd for the intersection widening.

B2Z has been very successful in identifying savings opportunities for Pct#2 by implementing innovative ideas to reduce construction costs without modifying the original design of the project. B2Z will maintain quality a construction while continuing to explore the plans and contract for Precinct #2.

To date, seven change orders have been approved for Dicker Road, totaling - \$427,200.73.

Four of the six change orders introduced a savings of over -\$1,253,659.83 for Hidalgo County. Change order #7 will introduce one final cost savings opportunity of -\$407,003.83. CO #7 includes 1) the traffic control plan changes, 2) the relocation an existing signal pole at 23rd Street, 3) replace two well gates due to plan error, 4) increase the 6x5 box culverts plan quantity due to plan error, 5) replace original incompatible pedestrian element with current replacements, 6) the increase in riprap quantities due to a plan quantity error.

<b>2 – Construction Management &amp; Inspection</b>	
<b>Tasks 1-9 Construction Management (During Construction)</b>	<b>63%</b>
<p><b><u>UPDATED:</u></b>  B2Z is currently reviewing invoices and processing pay estimates for the month of December.</p> <p>B2Z continues to coordinate new striping and signing subcontractor approvals with the County.</p> <p>B2Z continues to implement the Quality Assurance Plan.</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 conducts regular field meetings to coordinate daily work and to introduce field modifications with contractor personnel, McAllen Public Utility, the City of McAllen, the City of Hidalgo, and utility owner/coordinators. This coordination eliminated the need for many formal RFI's.</p> <p>The McAllen PU waterline is complete, installed between 23<sup>rd</sup> Street &amp; McColl Road. Carlos Gonzalez and Erica Gomez with McAllen PU met with B2Z to discuss the remaining work, reconcile the remaining funds and to use as much of these funds for any additional work request by McAllen PU. B2Z is preparing a Change Order for the extension of the waterlines on both side of the Main Canal, and to extend the line across McColl Avenue.</p>	

<b>Tasks 1-6 Construction Inspection</b>	<b>63%</b>
<p><b><u>UPDATED:</u></b></p> <ul style="list-style-type: none"> <li>▪ B2Z conducts daily job-site inspections and documents the construction progress in the project diary.</li> <li>▪ B2Z prepared daily pay sheets for all work performed.</li> <li>▪ B2Z assured that all materials used within the project meet specifications.</li> <li>▪ B2Z assured most of the safety measures were being followed for proper personal protection equipment (PPE), proper vehicular safety, and proper COVID-19 requirements in the field.</li> <li>▪ B2Z assured proper trench protection by using sloped banks, using trench boxes and sheet piling to install the 9x7 RCB boxes at the Main Canal.</li> <li>▪ B2Z assured traffic safety by verifying the proper project barricading was in place as established by the plans. B2Z barricade inspections include one day and one-night inspection each month</li> </ul> <p><b><u>UPDATED:</u></b></p> <p><b><u>Traffic Control:</u></b> 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 detoured traffic around construction. The traffic control was broken down into the three Phases below:</p> <ul style="list-style-type: none"> <li>▪ Phase I – CO #1 Complete - Opened to Traffic November 10<sup>th</sup>, 2020 – (Closed Dicker Road between 23rd Street and 10th Street while detouring traffic to reconstruct the entire roadway).</li> <li>▪ Phase II – CO #5 - Dicker Road is closed between McColl Road and Jackson Ave to reconstruct the entire roadway, while detouring traffic. (Segment is 75% Complete)</li> <li>▪ Phase III – CO #7 - Closed Dicker Road between 10th Street and McColl Road while detouring traffic to reconstruct the entire roadway. Will begin after Phase III after approval.</li> </ul> <p><b><u>UPDATED:</u></b></p> <p><b>Construction between Jackson Road to McColl Road (Road Closed) include:</b></p> <ul style="list-style-type: none"> <li>▪ Earthworks – Poured curb and gutter between McColl and Jackson Rd.</li> <li>▪ Earthworks – Pouring concrete sidewalks between McColl and Jackson Rd.</li> <li>▪ Earthworks – Poured driveways in from of Valley View School and Walmart</li> <li>▪ Earthworks – Placed 4” of Ty B hot mix between Floodway and McColl.</li> <li>▪ Earthworks – Placed 1 1/2” of Ty D hot mix between Floodway and McColl.</li> </ul>	

<ul style="list-style-type: none"> <li>▪ Earthworks – Placed 4” of Ty B hot mix between Floodway and Jackson Rd.</li> <li>▪ Earthworks – Placed 3” of Ty D hot mix between Floodway and Jackson Rd</li> <li>▪ Southwest Road &amp; Safety – Completed installing the pedestrian railing, MBGF, SGT, and DAT on the S. Floodway Channel Bridge and in front of Valley View Early College Campus.</li> <li>▪ Southwest Road &amp; Safety – Completed installing the signs and sign mounts. The small signs are complete except for one sign “FM 2061” at Jackson Rd.</li> </ul> <p><b>Construction from McColl Road to 10<sup>th</sup> Street (Road Open) includes:</b></p> <ul style="list-style-type: none"> <li>▪ GO – Installing riprap on both side of Dicker between McColl and Floodway Bridge.</li> <li>▪ GO – Installing riprap above the 9’ x 7’ RCB at the P-SJ Main Outfall on north side of Dicker</li> <li>▪ GO – Preparing for riprap above the 9’ x 7’ RCB at the P-SJ Main Outfall on south side of Dicker</li> <li>▪ GO – Poured the closure pour on the 9’ X 7’ RCB at the P-SJ Main Outfall</li> </ul> <p><b>Construction from 23<sup>rd</sup> St. to 10<sup>th</sup> Street (Road Open) includes:</b></p> <ul style="list-style-type: none"> <li>▪ November 10<sup>th</sup>, Segment of Dicker Road was completed and opened to traffic</li> </ul>	
<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>63%</b></p>
<p><b><u>UPDATED:</u></b> B2Z is coordinating the action to adjust conflicting 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 any change orders before finalizing.</li> <li>▪ To plot the final waterline location and all other utilities on our final as-builts.</li> </ul>	

<b>4 – Direct Expenses (Mileage)</b>	<b>63%</b>
<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>65%</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 service ability problems.</li> <li>▪ Sampled salvage and new base material for stockpiling and moisture density curve</li> <li>▪ Backfill testing of reinforced concrete pipe and concrete boxes</li> </ul>	

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

TASK	% Complete
<b>1 - Construction Contract Administration</b>	<b>95%</b>
<p><b><u>NO UPDATE:</u></b> Meeting with Carlos Gonzalez and Erica Gomez October 23, 2020 to discuss status of the project to introduce one changes before closing out the project. McAllen PU request to add a few changes to the original plans to extend the line across McColl Rd. and to extend both lines as close to the Main Canal as possible. Precinct #2 and B2Z will work with McAllen PU to extend and install as much of the water line as possible before closing out the change order.</p> <p>The line currently begins at 23<sup>rd</sup> and crosses 10<sup>th</sup> Street stopping at the irrigation Main Canal between 10<sup>th</sup> and McColl Rd. It starts up again on the east side of the Main Canal and stops on the west side of McColl Rd.</p>	
<b>2 – Construction Management &amp; Inspection</b>	
<b>Tasks 1-9 Construction Management (During Construction)</b>	<b>95%</b>
<p><b><u>NO UPDATE:</u></b> Pending changes requested by McAllen PU.</p>	
<b>Tasks 1-6 Construction Inspection</b>	<b>95%</b>
<p><b><u>NO UPDATE:</u></b> Pending changes requested by McAllen PU.</p>	
<b>Tasks 1-3 Construction Management (Post Construction)</b>	<b>50%</b>
<p><b><u>UPDATED:</u></b> B2Z started reconciling all the Change Order quantities to initiate the final as built set of plans.</p>	

<b>3 – Miscellaneous Technical Activities</b>	<b>95%</b>
<b><u>NO UPDATE:</u></b> Pending changes requested by McAllen PU.	
<b>4 – Direct Expenses (Mileage)</b>	<b>95%</b>
<b><u>NO UPDATE:</u></b> Pending changes requested by McAllen PU.	
<b>4 – Direct Expenses (CMT)</b>	<b>95%</b>
<b><u>NO UPDATE:</u></b> Pending changes 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



# Purchase Order COUNTY OF HIDALGO

PO# 803856

DATE: 08/23/19

PAGE NO: 1 OF 1

PO TYPE:

VENDOR: 449121

REQ: 00400015

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

GONZALEZ, AISHA  
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-19-016-08-13

**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 Certificates.
- 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 DICKER ROAD (23RD ST-JACKSON RD) - ENGINEERING SERVICES		
		WORK AUTHORIZATION NO. 1 APPROVED BY CC 8/13/19 AI#71702 ADVANCE FUNDING AGREEMENT AMENDMENT NO. 1 APPROVED BY CC 4/9/19 AI#69798		
		TOTAL WORK AUTH NO. 1 IS FOR \$1,165,481.52 AS PER AFA TXDOT (FEDERAL) PARTICIPATION IS 80% 932,385.22, STATE PARTICIPATION IS 18.2% \$212,117.64 AND COUNTY PARTICIPATION IS 1.8% \$20,978.66.		
1.00	LOT	CC WORK AUTHORIZATION NO. 1 FOR ENGINEER TO PROVIDE CONSTRUCTION CONTRACT ADMINISTRATION, CONSTRUCTION MANAGEMENT & INSPECTION, CONSTRUCTION MATERIALS TESTING AND MISCELLANEOUS TECHNICAL ACTIVITIES FOR THE PCT 2 DICKER ROAD PROJECT FROM SP 115 TO FM 2061	20,978.6600	20,978.66
		<b>TOTAL:</b>		20,978.66
		***** 0 For Hidalgo County use only 9-1315-431-00-122-062-0-721 20,978.66 0-1200-431-00-122-062-0-841 89,944.75		
		<b>SCANNED</b> AUG 27 2019		

Authorized by:

*Martha Salazar*  
ms