

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

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

P2 ADMIN  
 2019 JUL 2 PM2:12

## Invoice

Date	Invoice #
7/2/2019	20161

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 West Hall Acres, Suite G  
 Pharr, TX 78577

Project Info:  
 Hidalgo County Precinct #2  
 Contract # C-18-164-11-20  
 Work Authorization #1  
 Pct 2 Regional Linear Park - Phase II

B2Z JOB: 2113  
 PO #: 790326

Billing Period June 2019

Description	Contract	Previous Applications	Current Completed	Total Completed	% Complete	Bal
Construction Contract Administration	\$ 93,019.36	\$ 31,626.58	\$ 3,720.78	\$ 35,347.36	38%	59,672.00
Construction Management & Inspection						
Tasks 1-9 - Construction Mgmt (During Construction)	\$ 73,126.20	\$ 14,625.24	\$ 8,043.88	\$ 22,669.12	31%	50,457.08
Tasks 1-6 - Construction Inspection	\$ 462,804.16	\$ 83,304.75	\$ 60,164.54	\$ 143,469.29	31%	319,334.87
Tasks 1-3 - Construction Mgmt (Post Construction)	\$ 13,807.36	\$ -	\$ -	\$ -	0%	13,807.36
Miscellaneous Technical Activities	\$ 40,340.16	\$ 11,698.65	\$ 4,437.41	\$ 16,136.06	40%	24,204.10
Direct Expenses						
CMT	\$ 142,726.32	\$ 45,672.42	\$ 15,699.90	\$ 61,372.32	43%	81,354.00
Mileage	\$ 12,208.00	\$ 3,174.08	\$ 244.16	\$ 3,418.24	28%	8,789.76
	<u>838,031.56</u>	<u>190,101.72</u>	<u>92,310.67</u>	<u>282,412.39</u>		<u>555,619.17</u>
<b>Total For This Billing Period</b>						<b>\$92,310.67</b>

### Work Authorization ~ Summary

WA No.	WA Amount	Previously Inv.	Percent Complete	Remaining Balance
1	\$838,031.56	\$190,101.72	33.70%	\$555,619.17

\$92,310.67 x 20% = \$18,462.13 obj. 740  
 \$92,310.67 x 80% = \$73,848.54

  
 Aisha Gonzalez - President

PO # 790326  
9-1315-452-00-122-110-8-740  
 Req # 383903  
 \$18,462.13

INVOICE RECEIVED BY:  
Dalia Alvarado ON 7/2/19  
 GOODS/SERVICES RECEIVED BY:  
Eduardo Cantu ON 06/01-30/19

PO # 790326  
9-1315-126-10-000-005-0-000  
 Req # 383903  
 \$73,848.54

DA. 7/3/19

INVOICE RECEIVED BY:  
GOODS/SERVICES RECEIVED BY:  
ON

BY THE HONORABLE CHIEF OF POLICE

PO # \_\_\_\_\_  
-00-1SS-0-  
Red # \_\_\_\_\_

PO # \_\_\_\_\_  
-00-1SS-0-  
Red # \_\_\_\_\_

July 2, 2019

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

**RE: Professional Engineering Services (C-18-164-11-20)**  
**WA No. 1 ~ Pct. 2 Regional Linear Park Project – Phase II**  
**PO #790326 ✓**

Dear Commissioner Cantu:

Attached for your review and approval is our invoice for services rendered under Work Authorization #1 during the month of June 2019 on the subject referenced project.

The following is attached:

- Invoice No. 20161 ✓

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

TASK	% Complete
<b>1 - Construction Contract Administration</b>	
<p><b>UPDATED:</b>            B2Z conducted their monthly project status meeting on June 17, 2019 at the Hidalgo County Precinct No 2 offices. Attendees included representatives from B2Z, Hidalgo County Precinct No. 2 RPIC and Hidalgo County Precinct No. 2 staff. For the month of May, the project was 22 % complete for construction (excluding materials-on-hand) and 7.25% complete for time. B2Z estimates that the project will be near 31% complete for the month of the June.</p> <p>B2Z continues to monitor the County’s construction expenditures versus the refundable and available funds within the advanced funding agreement (AFA). B2Z identified a required change order (CO) with a storm sewer utility conflict at the Cage Blvd. tunnel crossing. This work was completed along with the tunnel crossing earlier in the month of June. During installation of the box culverts at the same location, additional unidentified utility conflicts were discovered. They are:</p> <ol style="list-style-type: none"> <li>1. City of Pharr 18” waterline on the east side of Cage Blvd.               <ol style="list-style-type: none"> <li>a. City of Pharr will provide materials to address this change order and TCC will provide the equipment and labor. This change order will result in an additional cost to the County.</li> </ol> </li> <li>2. 60” Reinforced Concrete Pipe (RCP) storm sewer line (inactive)</li> </ol>	<p><b>38%</b></p>

<p>a. A change order will be required for the removal of the RCP.</p> <p>B2Z continues to work with the contractor to complete the Sourcing Letter, revise the CPM schedule and manage request for information, submittals, and for approval of change orders.</p> <p>We continuously monitor the utility conflicts and the status of their adjustments to plan tunnel crossings without delaying work or interfering with the traveling public any longer than necessary. The Moore Road crossing was completed May 24, 2019 and the Cage Blvd. crossing was completed on June 21, 2019. The only remaining tunnel crossing is the Ridge Rd crossing.</p>	
<p><b>2 – Construction Management &amp; Inspection</b></p>	<p><b>B2Z</b></p>
<p><b>Tasks 1-9 Construction Management (During Construction)</b></p>	
<p><b>UPDATED:</b>  B2Z negotiated the change order with the City of Pharr and Texas Cordia Construction (TCC) for the 18” waterline adjustment on the east side of Cage Blvd. The original proposal issued by TCC was high and rejected by the City of Pharr. After clarification of the work involved, the time allotted, and division of fiscal responsibilities, B2Z was able to reduce the CO amount significantly, and the amount was agreed upon in principal by all stakeholders. The CO is still pending approval by the City of Pharr Commission.</p> <p>B2Z identified an error in the construction plans with a 16” irrigation line at the south side of Moore Rd. B2Z coordinated with Hidalgo County Irrigation District No.2 (HCID#2) the proposed removal and replacement of 225 linear feet. This CO is still in negotiations with the County and TCC. The HCID#2 has agreed in principal to the proposed solution.</p> <p>B2Z is currently in communication with HCID#2 with regards to their irrigation canal improvement that will affect the pedestrian bridge crossing south of Ridge Rd. The proposed improvement is to raise the irrigation canal by one foot. This will impact the original elevations proposed for the pedestrian bridge. B2Z has notified the design engineer of record of the proposed improvement and will continue to coordinate with all stakeholders until a solution is mutually agreed upon.</p> <p>As per Commissioner Cantu’s request, B2Z is coordinating additional drainage structures south of Ridge Rd and extending to HCID#2’s irrigation canal. These drainage structures are to alleviate potential flooding associated with the trail and will be installed on both the east and west side of the trail. These drainage structures will outfall into the existing drainage ditch parallel to the trail.</p>	<p><b>31%</b></p>

<p><b><u>RFI's – there are no new RFI's for this period:</u></b></p> <p><b><u>Submittals:</u></b></p> <ol style="list-style-type: none"> <li>1. Sub #13 – approved</li> <li>2. Sub #14 HMAPC (PG76-22) - approved</li> <li>3. Sub #15 - approved</li> </ol> <p>B2Z prepared the monthly estimate, pay applications, summary of contractor's tabulations, prompt payment report, DBE monthly reports, certified payrolls and summary of work performed. This monthly estimate will be finalized and provided to Hidalgo County Precinct No. 2 for their review and approval. B2Z will schedule the monthly status update meeting with Precinct No. 2 staff the second week of July 2019.</p>	
<p><b>Tasks 1-6 Construction Inspection</b></p>	
<p><b><u>UPDATED:</u></b>  B2Z's field superintendent conducted onsite inspections to document construction activities in the daily project diary including but not limited to:</p> <ul style="list-style-type: none"> <li>▪ contractor and subcontractor workers</li> <li>▪ equipment</li> <li>▪ materials</li> <li>▪ work locations</li> <li>▪ type of work</li> <li>▪ general weather conditions</li> <li>▪ contractor safety</li> <li>▪ job progress and delays</li> <li>▪ construction concerns</li> <li>▪ change orders</li> <li>▪ alignment verifications</li> <li>▪ ROW verifications</li> <li>▪ drainage verifications</li> <li>▪ utility coordination</li> <li>▪ project visitors</li> <li>▪ material deliveries and material on hand</li> </ul> <p>B2Z documented all inspection findings in digital format via daily journal with photographic backup. In addition, B2Z continuously inspects storm water pollution control devices and best management practices, as well as compliance with environmental permit and commitment requirements for the project.</p> <p>TCC continues to progress on the project. Below are some of the major work activities completed this month</p> <ol style="list-style-type: none"> <li>1. installation of the 12'x8' RCB pedestrian tunnel crossing at Cage Blvd completed</li> <li>2. wingwalls and headwalls at the Moore Rd tunnel crossing have been completed</li> <li>3. 80% of the pedestrian trail has been completed</li> </ol>	<p><b>31%</b></p>

<p>4. Riprap has been completed from the first pedestrian bridge (closest to Precinct No. 2 Admin Building) to the west side of Cage Blvd</p> <p>5. 40% of the riprap at the Moore Rd. Crossing has been completed</p> <p>6. Excavation of the Ridge Rd. tunnel crossing has commenced and is approximately 70% complete</p> <p>B2Z continues to produce daily pay sheets, assure specification compliance of materials delivered to the job site (Including the Buy America Act), maintain job safety measures and implement OSHA requirements including day/night inspection of barricades.</p> <p>Furthermore, B2Z's superintendent is coordinating with the property owners on construction inconvenience specifically those along the trail from Ridge Rd, south to the irrigation canal.</p>	
<p><b>Tasks 1-3 Construction Management (Post Construction)</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>B2Z</b></p>
<p><b><u>UPDATED:</u></b> B2Z continues to coordinate all utility relocations at Ridge Rd required prior to box culvert installation. This location presents the most challenges and will require continuous coordination with the City of Pharr and TCC. The City of Pharr has indicated that the plans for their utility relocation adjustments are currently being designed and anticipate a letting date in the next three months.</p> <p>The B2Z team successfully coordinated all City of Pharr utility relocations for the Cage Blvd tunnel crossing. B2Z reviewed and approved a modified traffic control plan (TCP) presented by TCC which phased the partial closure of Cage Blvd.</p> <p>B2Z continues to coordinate with Engineer of Record (L&amp;G Engineering) for Shop Drawing Review.</p>	<p><b>40%</b></p>
<p><b>4 – Direct Expenses</b></p>	<p><b>B2Z</b></p>
<p><b>Material Testing</b></p>	
<p><b><u>UPDATED:</u></b> As the project develops, B2Z continues to gather base material samples (Caliche) for testing and material approval, to gather soil samples from the project to develop testing requirements for determining on site densities on the untreated and lime treatment sections.</p> <p>As per our Quality Assurance Program (QAP), B2Z identified non-compliant Caliche material. The material delivered to the jobsite contained too many “fines”</p>	<p><b>43%</b></p>

<p>and did not pass the required sieve analysis specification. As a result of the failing test and re-test results, B2Z has stopped future delivery of caliche material from this approved material supplier until they provide a passing sieve analysis report. B2Z has provided the failing test and re-test results to TCC, who in turn has communicated the results to their material supplier. B2Z will continue to monitor this issue until the material supplier provides the requested information for our lab to verify.</p> <p>B2Z continues to use the nuclear density gauge to measure the preparation and compaction of soils and base. B2Z continues to monitor contractor operations and performs CMT testing on the following items:</p> <ul style="list-style-type: none"> <li>▪ Embankment</li> <li>▪ Backfill Material &amp; Compaction (at box culvert crossings)</li> <li>▪ Subgrade (Untreated)</li> <li>▪ Subgrade (Lime treated)</li> <li>▪ Flexible Base – untreated</li> <li>▪ Flexible Base – lime treated</li> <li>▪ Hydraulic Cement Concrete – Signal &amp; Pedestrian rail foundation (Class C)</li> <li>▪ Hydraulic Cement Concrete – Riprap/curb/sidewalks (Class A)</li> </ul>	
<p><b>Mileage</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 job-site inspections - daily</li> <li>▪ Project Manager site visits – 2/week</li> <li>▪ Utility Coordination meetings</li> <li>▪ Monthly Hidalgo County Precinct No. 2 Status update meeting</li> <li>▪ Irrigation District Meetings</li> <li>▪ City of Pharr Meetings</li> <li>▪ Public outreach (complaint resolution)</li> </ul>	<p><b>28%</b></p>

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

Sincerely,

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Carlos Del Angel, PMP  
Executive Vice President  
B2Z Engineering, LLC



# Purchase Order COUNTY OF HIDALGO

PO# 790326 ✓

DATE: 12/21/18 ✓

PAGE NO: 1 Of 1

**PO TYPE:**

VENDOR: 449121

REQ: 00383903 ✓

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-18-164-11-20

**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. Our 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		
		C-18-164-11-20 EXPIRES 12/31/2023 CONSTRUCTION CONTRACT ADMINISTRATION, MANAGEMENT, INSPECTION AND CONSTRUCTION MATERIAL TESTING SERVICES WORK AUTHORIZATION NO. 1 APPROVED BY CC 11/20/18 AI#67767		
		ADVANCE FUNDING AGREEMENT AMENDMENT NO. 1 APPROVED BY CC 7/3/18 AI#65495		
		TOTAL WORK AUTH NO. 1 IS FOR \$838,031.56 AS PER AFA TXDOT PORTION IS 80% 670,425.25 AND COUNTY PORTION IS 20% \$167,606.31.		
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 FOR THE PCT 2 REGIONAL LINEAR PARK PROJECT - PHASE II	167,606.3100	167,606.31
		<b>TOTAL:</b>		167,606.31
		***** For Hidalgo County use only 8-1315-452-00-122-110-8-740		167,606.31

HIDALGO COUNTY  
PRECINCT NO. 2

2018 DEC 27 PM 3:00

**SCANNED**

12/29/18

Authorized by: \_\_\_\_\_

*Martha Salazar*