

Floyd County Redevelopment Commission Meeting

Pine View

Room 104

Tuesday, April 19, 2022

10 AM

- I. Call to Order
- II. Roll Call
- III. Minutes and Claims
- IV. Public Comment
- V. New Business
  - a. Broadband TIF
  - b. Novaparke
    - i. Whistle Stop Project Update
    - ii. Marketing and Management Co-Work Space
    - iii. Streetscape Update
    - iv. Road Construction Project Update
    - v. Fiber Update
    - vi. Solar Power Update
    - vii. Marketing Update
    - viii. READI Update
- VI. Adjournment

**Floyd County Redevelopment Commission**  
**Tuesday April 19, 2022**  
**Time 10:07 AM**

**I. Call to Order**

**II. Roll Call of Members**

Present: President Bob Woosley, John Schellenberger, Jeff McCaffrey (Virtual), Director of Redevelopment Donald Lopp, and Attorney Justin Endres. Administrative Assistant Teresa Plaiss, Brad Striegel and Donna Corbett were absent.

**III. Minutes and Claims (No Claims)**

Mr. Schellenberger made a motion to approve the minutes of February 15, 2022 and Executive Session as presented, seconded by Mr. Boling. Motion carried by a vote of 4-0.

**IV. Public Comment**

No public was present.

**V. New Business**

**a. Broadband TIF**

**b. Novaparke**

**i. Whistle Stop Project Update**

Mr. Lopp updated the Board on the progress of the Whistle Stop Project.

**ii. Marketing and Management Co-Work Space**

Update only.

**iii. Streetscape Presentation**

Update only.

**iv. Road Construction Progress Update**

Update only.

**v. Fiber Update**

Update only.

**vi. Solar Power Update**

Update only.

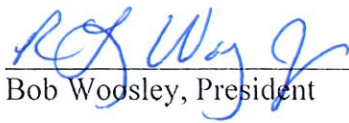
**vii. Marketing Update**

Update only.

**viii. READI Update**

Mr. Schellenberger made a motion to allow Mr. Lopp to proceed with a RFP for Architectural and Engineering services for buildings 4 and 5, seconded by Mr. Boling. Motion carried by a vote of 4-0

**VI. Adjournment:** With there being no further discussions, Mr. Boling made a motion to adjourn, seconded by Mr. Schellenberger. Motion carried. Recorded time of adjournment was 10:57 A.M. Next regular meeting May 17, 2022 at 10:00 A.M unless otherwise notified.

  
\_\_\_\_\_

Bob Woodsley, President

  
\_\_\_\_\_

Rich Boling, Vice President


  
\_\_\_\_\_

John Schellenberger, Member

\_\_\_\_\_

Jeff McCaffrey, Member

Attest:

  
\_\_\_\_\_

Teresa Plaiss, Clerk

REGISTER OF CLAIMS FOR FOYD COUNTY  
REDEVELOPMENT COMMISSION

March 2022 thru May 17, 2022

DATE FILED	CLAIM #	VENDOR	FUND NO.	AMOUNT	DISCRIPTION
4/30/2022	1	Young, Lind, Endres & Kraft, LLC	4933	\$ 754.66	Attorney Fees

TOTAL CLAIMS \$ 754.66

Signature of President







## Quotation

Quote # QUO-489556-Z1P2D0					
Date	3/28/2022	Account Name	E&B Paving Clarksville IN	Reply-To	
Quote #	QUO-489556-Z1P2D0	Contact Name	Marty Sabla	Contech Rep.	Kevin Kirby
		Phone	(812) 282-1349	Address	231 First Ave NE, Carmel, IN, 46032
Project Name	Innovation Parkway Phase 2	Fax	(812) 285-7536	Phone	317-695-2779
Project #	680732	Email	Marty.sabla@ebpaving.com	Fax	
Project City/State	New Albany, IN			Email	Kevin.Kirby@conteches.com

Contech's offer to sell the products described in this quotation is expressly conditioned upon Buyer's assent to the Contech Conditions of Sale ("Contech COS") Included herewith and/or viewable at [www.conteches.com/cos](http://www.conteches.com/cos). A valid tax exemption certificate must be issued to Contech or sales tax will be added.

Item #	Description	Pieces	Quantity	Extended Unit Price	Unit	Unit Total
Str 1	-MP Arch Dip-Galv 05ga add a 2'6" ring (plate make up is 2 @ 24 pi, 3 @ 21 pi, and 1 @ 18 pi). 2 special unbalanced channels x 2'-6" will be required	1.00	2.50	\$2,755.00	FT	\$6,887.50
Str 2	-MP Arch Dip-Galv 05ga add a 1'6" ring (plate make up is 2 @ 24 pi, 3 @ 21 pi, and 1 @ 18 pi). 2 special unbalanced channels x 1'-6" will be required.	1.00	1.50	\$2,755.00	FT	\$4,132.50
Str 3	-MP Arch Dip-Galv 05ga add a 0'6" ring (plate make up is 2 @ 24 pi, 3 @ 21 pi, and 1 @ 18 pi). 2 special unbalanced channels x 0'-6" will be required.	1.00	0.50	\$2,755.00	FT	\$1,377.50
<b>Total</b>						\$12,397.50
(Tax not included)						<b>Net Total</b>
						\$12,397.50

### Standard Notes

1. Allowable unloading time for delivery trucks is one (1) hour. Demurrage charges of \$100.00 per hour thereafter will be added.
2. One or more of the products quoted herein is nonstandard and not returnable. A down payment equal to 1/3 of the item(s) total is required and must be received prior to commencement of any performance by Contech.
3. Prices are f.o.b. origin with freight allowed to the jobsite with unloading by others at a truck accessible location.
4. Prices quoted do not include assembly. Some or substantial assembly is required and is the responsibility of Buyer.
5. Quotation is based upon estimated (not guaranteed) quantities. Buyer must verify final quantities needed prior to commencement of work by Contech. If Buyer elects to purchase from Seller only a portion of the material quoted, Seller retains the right to adjust its prices.
6. The estimated manufacturing lead time for this material is 2 weeks from the receipt of approved submittal documents.
7. This material will be manufactured for this particular project and is not subject to cancellation. See Section 16 of the Contech COS.
8. This quotation expires 30 days from the date shown. Prices are firm for shipment within 60 days of the date of quotation and are subject to a maximum escalation of 8% for each 30 days thereafter.

### Scope Of Work

#### Multi-Plate

MULTI-PLATE pricing includes plate layout drawings, unassembled corrugated steel structural plates, and sufficient bolts and nuts. Anchor bolts, special fabrications for non square ends and fittings with associated hardware of any kind are not included unless specifically priced herein.

PAYMENT TERMS ARE 1/2%-10, NET 30 DAYS FROM DATE OF INVOICE UNLESS MATERIAL IS OTHERWISE NOTED AS NON-STANDARD ABOVE. IF NON-STANDARD, PAYMENT TERMS ARE 1/3 AT ORDER ACCEPTANCE AND PRIOR TO START OF PRODUCTION, 2/3 NET 30 DAYS FROM DATE OF INVOICE. THIS OFFER IS SUBJECT TO CREDIT APPROVAL. PRICES QUOTED APPLY ONLY TO THE REFERENCED PROJECT AND ARE IN EFFECT FOR 30 DAYS FROM THE DATE OF QUOTATION. SELLER RESERVES THE RIGHT TO ADJUST PRICES AFTER 30 DAYS FROM THE DATE OF QUOTATION BUT THE CONTECH COS REMAIN APPLICABLE. PRICES ARE BASED ON ESTIMATED QUANTITIES SHOWN. IF A DIFFERENT QUANTITY IS PURCHASED, CONTECH RESERVES THE RIGHT TO ADJUST THE PRICES. THIS QUOTATION CONTAINS THE ENTIRE AGREEMENT WITH RESPECT TO PURCHASE AND SALE OF PRODUCTS DESCRIBED AND SUPERSEDES ALL PREVIOUS COMMUNICATIONS, BUYER'S SIGNATURE BELOW, DIRECTION TO MANUFACTURE, OR ACCEPTANCE OF DELIVERY OF GOODS DESCRIBED ABOVE, SHALL BE DEEMED AN ACCEPTANCE OF THE CONTECH COS. SELLER EXPRESSLY REJECTS ANY OTHER TERMS AND CONDITIONS. PRICES ARE F.O.B. ORIGIN WITH FREIGHT ALLOWED TO THE JOBSITE WITH UNLOADING BY OTHERS AT A TRUCK ACCESSIBLE LOCATION. THIS QUOTATION IS ISSUED BY CONTECH ENGINEERED SOLUTIONS LLC FOR ITSELF AND/OR ON BEHALF OF ONE OR MORE OF ITS SUBSIDIARIES, INCLUDING BUT NOT LIMITED TO KEYSTONE RETAINING WALL SYSTEMS LLC.

<b>Acceptance</b>	<b>Contech Engineered Solutions LLC,</b>	
WE HEREBY ORDER THE DESCRIBED MATERIAL SUBJECT TO ALL TERMS AND CONDITIONS OF THIS QUOTATION AND IN THE Contech COS INCLUDED HEREWITH AND VIEWABLE AT <a href="http://www.conteches.com/cos">www.conteches.com/cos</a>	By	Kevin Kirby
Company	(O)	317-695-2779
By	(F)	

Floyd County Redevelopment Commission Meeting

Pine View

Room 104

Tuesday, May 17, 2022

10 AM

1. Call to Order
2. Roll Call
3. Approval of Minutes and Claims
4. Public Comment
5. Declaratory Resolution – Broadband TIF RDC 2022-01
6. Novaparke
  - a. Contract Survey – Primavera and Associates
  - b. Change Orders – E and B
  - c. Construction Updates
  - d. Approval of RFP for Architectural Services
  - e. Approval – Lot Marketing
  - f. Streetscape
7. Project Geras Update
8. Project Canalis Update
9. TIF Development Update
  - a. Approval – Contractual Services Crowe (Review TIF and Development Projects)
10. Adjournment





# Why Novaparke is the place for you.

## A PLACE TO WORK, A PLACE TO GROW

Our mission is to create a diverse economic ecosystem where research, innovation, creativity, and entrepreneurialism collaborate; where innovative developments in the fields of advance manufacturing, bio-technology, life science and space development through a concentrated effort are fostered.

## AMENITIES AND BENEFITS

- Coworking and incubator space
- 14 lots for companies to build on with their own custom design
- 100G internet speed from two providers
- Low cost of living
- Surrounded by like minded people
- 10,000 square foot research and laboratory facility (wet and dry labs)
- Planned 225 acre regional park complex adjacent to Novaparke
- Continuing education and career advisory opportunities with IU Southeast (STEAM Program)

### Location:

6621 St Rd 64, Georgetown, IN 47122

### Find Us On Social:

@novaparke   



**LOT MARKETING STRATEGY**

**Social Media Cont'd**

	<b>STUDENTS &amp; STARTUPS</b>	<b>PROFESSIONALS</b>	<b>COMMUNITY</b>
<b>WEEK 5</b>	High speed internet (infographic about work productivity)	Wet and dry lab	Design -energy efficiency -green construction methods
<b>WEEK 6</b>	Surrounded by like minded people	Outdoor meeting spaces -green space -exercise "employees will love"	Define STEAM -benefits for STEAM  Benefits for you - job creation -eventual wage increase

**Website**

- Built out new website with new, organized tabs and more content/information
- "Reserve a Lot" section added to "Site" tab with a form for interested parties to fill out
- Add "Novaparke" tab to any current and relevant government websites
- List lot information on existing commercial real estate sites

**Print Marketing**

- Lots information packet
- One pagers for both students and business professionals
- Physical form for interested parties to fill out

**Direct Marketing**

- Create "Warm Leads" list that includes but is not limited to:
  - Local organizations like ISI, ISBDC, and River Ridge
  - In state college students in specific fields
  - Individuals with access to funding startups and entrepreneurial endeavors
  - Existing Indiana businesses in specific fields (getting list from ISBDC)
- Email marketing campaign
- Attend pitch competitions for runners up

**ARE YOU INTERESTED IN PURCHASING A LOT FOR YOUR COMPANY? FILL OUT THE  
INFORMAITON BELOW.**


**Individual Name:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Additional Notes:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





U.S. DEPARTMENT OF COMMERCE  
Economic Development Administration  
CHICAGO REGIONAL OFFICE  
230 SOUTH DEARBORN STREET  
CHICAGO, ILLINOIS 60604

Don Lopp  
Director of Operations and County Planning  
Floyd County  
2524 Corydon Pike, Suite 204  
New Albany, IN 47150

Subject: EDA Project No. 06-01-06148  
Change Order Review

Dear Mr. Lopp:

The Economic Development Administration (EDA) acknowledges receipt of Change Orders No. 1, Cases 1-5, related to the Floyd County Innovation Park Infrastructure Improvements construction contract with E&B Paving, Inc.

Based on our review of the documents submitted and the justification provided we have determined that the requested changes are within the EDA project scope and guidelines as approved in the Grant Award.

The change orders modify the EDA eligible contract price as follows:

**Summary of Change Orders**

Contractor	Description	Original Contract Amount (including previously approved change orders)	Amount Proposed	Amount Approved	Revised Contract
E&B Paving, Inc	CO #1: Cases 1-5	\$6,439,800.00 (Total)	\$148,213.36 (increase)	\$148,213.36 (increase)	\$6,588,013.36 (Total)
		\$5,203,862.11 (Eligible)	(Eligible)	(Eligible)	\$5,352,075.47 (Eligible)
		\$1,235,937.89 (non-Eligible)	\$0.00 (non- Eligible)	\$0.00 (non- Eligible)	\$1,235,937.89 (non-Eligible)

EDA approval of the change order is to assure compliance with terms of the Grant Agreement and does not imply nor attest to the accuracy or completeness of the design, dimensions, details, proper selection of materials, nor compliance with required codes or ordinances. This responsibility rests with the Grantee.

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Should you have any questions regarding the contents of this letter, please do not hesitate to contact me at (312) 789-9759.

Sincerely,

Robert Lee  
Project Manager



**ECONOMIC DEVELOPMENT ADMINISTRATION  
 CHANGE ORDER FORM**

EDA Award Number: 06-01-06148 Date: 12/21/21

Recipient: Floyd County Redevelopment Commission

Co-Recipient(s): \_\_\_\_\_

Recipient's Authorized Representative: Matt Hines - (502) 500-8317  
*Name & Phone Number*

Construction Contract No.	Contractor Name	Change Order No.
1-2021	E&B	1

The Change Order will provide for the following:

CO #1 covers 5 separate CASES of quantity overruns for existing items or new items required to keep the project on schedule and meet project specifications. Attachment #1 is the Agenda.

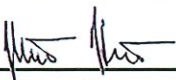
Change Order Justification (Include cost analysis, if not unit cost in bid proposal or schedule of values):

CASE 1: MSE Wall Leveling Pad 2' Undercut to Rock:

On 11/1/21 E&B excavated exploratory holes in the footprint of MSE Walls 1-3 leveling pad to determine actual rock elevation in the field (see Attachment #2 for a redlined plan view of this

	TOTAL	EDA Funded Amount	* Non-EDA Funded Amount
Original Contract Amount	\$ 6,439,800.00	\$ 2,601,913.06	\$ 3,837,886.94
Current Contract Amount adjusted by previous Change Orders	\$ 6,439,800.00	\$ 2,601,913.06	\$ 3,837,886.94
<input checked="" type="checkbox"/> This Change Order will (increase) <input type="checkbox"/> (decrease) the Contract Amount by:	\$ 148,213.36	\$ 74,106.68	\$ 74,106.68
The original, scheduled date of completion is/was:	10/31/22	10/31/22	10/31/22
The new Contract Amount including this Change Order will be:	\$ 6,588,013.36	\$ 2,676,019.74	\$ 3,911,993.62
<input type="checkbox"/> The Contract Time will (increase) <input type="checkbox"/> (decrease) the schedule by:	calendar days	calendar days	calendar days
The estimated date for completion of all work is:	10/31/22 (Date)	10/31/22 (Date)	10/31/22 (Date)

\* Construction components not part of the EDA Grant Project and do not include EDA funds nor local match funds.

  
 Prepared By (Signature)

1/12/22  
 Date

Matt Hines, EIT -  
 Prepared By (Typed or Written Name & Title)



# United Change Order Details

Innovation Parkway Phase 2 & 3

**Description**  
**Prime Contractor** E&B Paving, Inc.  
286 W. 300 N.  
Anderson, IN 46012

**Change Order** 1

**Status** Pending

**Date Created** 03/05/2022

**Type** Minor Overrun

**Summary** CO #1 covers 5 separate CASES of quantity overruns for existing items or new items required to keep the project on schedule and meet project specifications.

**Change Order Description**  
**Change Order #1 (CO #1) will provide for the following:**  
CO #1 covers 5 separate CASES of quantity overruns for existing items or new items required to keep the project on schedule and meet project specifications. Attachment #1 is the Agenda for a meeting held on 12/21/21 (attendees include Robert Lee (EDA), Melissa Woods, and reps from E&B and Floyd County) which describes the work involved for each CASE, estimated or installed quantity increases per item, and, for CASE 3, describes the new pay item required and the contractor's unit price for that new pay item. No CASES have been paid for - CASES 1 - 4 have already been installed. A detailed narrative of each CASE along with marked up drawings, cost analysis, and communications between designer, contractor, and owner follows in the Change Order Justification section below.

**CO Justification (Include cost analysis, if not unit cost in bid proposal or schedule of values):**  
**CASE 1: MSE Wall Leveling Pad 2' Undercut to Rock:**  
On 11/1/21 E&B excavated exploratory holes in the footprint of MSE Walls 1-3 leveling pad to determine actual rock



elevation in the field (see Attachment #2 for a redlined plan view of this area). The results showed an average rock elevation of EL 768.0 for the lowest step of the leveling pad from STA 17+00 - Wall 3. This elevation was confirmed when referencing the boring logs - a tabulation spreadsheet of rock elevations by station is attached (Attachment #3). Road plan cross-sections included an incorrect rock elevation in this area at EL 770.0 as can be seen in Attachment #4. On 11/3/21, E&B began excavating to EL 770 per plan. Photos from this excavation (Attachment #5 and #6) show the material at EL 770.0 saturated with water and unsuitable for construction. In an email dated 11/3/21 (Attachment #7) the Engineer of Record (EOR) confirmed the unsuitable material should be removed and replaced with B Borrow. On 11/3/21 E&B was notified to excavate the extra 2 feet of material down to rock per the attached detail in RFI 16 (Attachment #8). Matt Hines' final estimate of volume excavated and replaced using x=8 from Attachment #8 and the redlined additional depths and widths in the cross-sections from Attachment #4 totaled 790 CY (tabulated in an excel sheet shown in Attachment #9). E&B's estimate was 1039 CY. This work was completed on 11/5/21. Using a conversion ratio of 2 TON / CY with the total tonnage of #8 stone (B Borrow) delivered for this work (1115.07 TON) yields an actual installed volume of 557.54 CY. Therefore, the added quantity for the existing contract items used for this work (Item #0004 Common Excavation and Item #0010 B Borrow) is 557.54 CY. The cost added for Item #0004 @ \$22.50 / CY is \$12,544.65. The cost added for Item #0010 @ \$35.00 / CY is \$19,513.90 for a **total cost increase of \$32,058.55 for CASE 1.**

#### **CASE 2: Failed Proofroll Topsoil Undercut STA 11+50 - 16+25:**

On Friday, 10/22/21, the contractor began stripping topsoil from STA 11+50 - 16+25 in preparation for embankment operations. After stripping, the existing ground was compacted with a vibratory roller and DCP tests were performed as a rough density check since no loaded trucks were available to perform a proofroll (see Attachment #s10 and 11 for photos). The average result of the DCP tests was 2 blows through 6" - for this soil the passing requirement was 7 blows through 6". Since it was forecasted to rain on Saturday and Sunday, the stripped area was left compacted to seal it from further saturation with water. The stripped original ground remained sealed through 10/26 because it rained 1" from 10/24 - 10/25. Since the low at this time was in the 40s and the high in the low 60s, the moisture would not evaporate as can be seen in this photo of the stripped area from 10/26 (Attachment #12). This cooler weather continued into the next weekend (10/30 - 10/31) where it also rained another". The next week (11/1 - 11/5) the temperature dropped further to lows in the 30s and highs in the 50s which again is not conducive to soil drying. At this point in the season it was determined the weather would not allow for soil drying and in order to create access to the MSE Wall 1-3 work area starting at STA 16+25, the unsuitable material in this area would have to be undercut. In addition, per INDOT Standard Specification (ISS) 203.09: "If the original ground cannot be compacted to the required strength because of soft or unstable soils, the use of stabilizing materials consisting of coarse aggregate No. 5 encapsulated in geotextile, in accordance with 214.03(a), or soil drying with a chemical modifier in accordance with 217 shall be used as directed. The coarse aggregate materials used for stabilization shall be 1 to 2 ft thick and shall allow the



encapsulated material in the embankment to drain." On 11/5/21, a proofroll was performed on existing ground after stripping of topsoil from STA 11+50 - 16+25 full width of the planned subgrade treatment 2' outside of back of curb (see Attachment #13 for a plan view markup). The entire proofroll failed (See Attachment #14-16 for photos of the failed areas). Roots and other organics remained exposed in the area of the stripped existing ground. The boring logs of the area showed the topsoil was on average 16" deep (see Attachment #3 for a spreadsheet with depth of topsoil by station). In addition, a test hole was excavated in which suitable material was found approximately one foot below (see Attachment #17 for photo). Therefore, since 4" of topsoil had already been stripped, it was agreed to undercut an additional 1 foot. E&B's estimate (Matt Hines agreed) for this undercut was 636 CY and can be seen in Attachment #18. This undercut was performed on 11/15/21. Another proofroll was performed. Two areas totaling 14' x 12' x 1' and 100' x 14' x 3' (total of 162 CY - see Attachment #19 and #20 for photos) failed the second proofroll and were once again undercut. These undercuts brought the total estimate to 798 CY. After removal of unsuitable material, geotextile was placed on the exposed suitable material and then brought back up to original grade with 9" of #2 stone and then 3" of compacted #53 stone on top (see Attachment #s 21 - 27 for photos of the undercut installation). It was agreed to pay for the undercut stone using the existing B Borrow unit price which was cheaper than existing contract items for #2 stone and #53 stone. Using a conversion ratio of 2 TON / CY with the total tonnage of stone (B Borrow) delivered for this work (1349.18 TON) yields an actual installed volume of 674.59 CY. Therefore, the added quantity for the existing contract items used for this work (Item #0004 Common Excavation and Item #0010 B Borrow) is 674.59 CY. The cost added for Item #0004 @ \$22.50 / CY is \$15,178.28. The cost added for Item #0010 @ \$35.00 / CY is \$23,610.65. The cost added for Item #0130 was \$2,962.05. The resulting total cost increase is \$41,750.98. On 1/12/22, unsuitable material adjacent to MSE Wall 1 backfill from STA 16+25 - 17+00 was also undercut by 1.5' in the same manner as the previous undercut. The dimensions were 75' x 15' x 1.5' for an estimated volume of 62.5 CY. Using a conversion ratio of 2 TON / CY with the total tonnage of stone (B Borrow) delivered for this work (117.72 TON) yields an actual installed volume of 58.86 CY. Therefore, the added quantity for the existing contract items used for this work (Item #0004 Common Excavation and Item #0010 B Borrow) is 58.86 CY. The cost added for Item #0004 @ \$22.50 / CY is \$1,324.35. The cost added for Item #0010 @ \$35.00 / CY is \$2,060.10. The cost added for Item #0130 was \$267.54. The resulting total cost increase is \$3,651.99.

**Total cost for CASE 2 is \$45,402.97.**

**PREAMBLE FOR CASES 3 AND 4:**

See Attachment #28 for an excerpt from the Innovation Parkway Phase 2 and Phase 3 Project Manual which states delays not attributable to the Contractor are eligible for a Contract Times and Price adjustment.



In addition, per INDOT Standard Specification (ISS) 108.08 (lines 323-333):

"If the Contractor finds it impossible for reasons beyond its control to complete the work within the contract time as specified prior to the expiration of the contract time, a written request in accordance with 105.16 may be made for an extension of time setting forth therein the reasons which will justify the granting of the request. A plea that insufficient time was specified is not a valid reason for extension of time. If the Engineer finds that the contract controlling operation was delayed due to an excusable delay under 108.08(a) or 108.08(b), the Department will extend the contract time for completion in such amount as the conditions justify. The extended time for completion shall then be in full force and effect, the same as though it were the original time for completion. The Department will not extend contract time for a non-excusable delay under 108.08(c)."

The Contractor sent the written request as specified in both specs above in an email dated 11/8/21 (Attachment #29).

Per ISS 108.08(b):

"Excusable, compensable delays are delays that are not the fault or responsibility of the Contractor and are the fault or responsibility of the Department. The following are excusable, compensable delays: 1. Delays due to differing site conditions in accordance with 104.02(a), significant changes in the character of work in accordance with 104.02(c), or extra work in accordance with 104.03. 2. Delays due to suspension of work ordered by the Engineer in accordance with 104.02(b). **3. Delays due to work that utilities or other third parties perform within the project limits.** The Department will extend the contract time for completion and will pay for delay costs covered under item 1 above in accordance with 104.03. **The Department will make payment for delay costs under items 2 and 3 above in accordance with 109.05.2."**

In addition, per ISS 108.08 (lines 289-296):

"If the contract time is a fixed calendar date, it shall be the date on which all work on the contract shall be completed. For such contracts, an extended date of completion will be considered for delay in the issuance of the notice to proceed if the notice to proceed is not issued within 30 days of the letting, except if the delay is due to the failure of the Contractor to furnish requested forms or information. Unless otherwise determined, an extension to the contract completion date and intermediate completion date will be allowed for each calendar day from 30 days after the date of the letting to and including the date of the notice to proceed."

The Contract letting occurred on 6/15/21. The NTP (Attachment #30) was issued on 10/1/21 for a total delay of 78 days. Duke Energy didn't complete their relocation until 11/4/22. Frontier, a communications utility, did not complete their removal



of a pole, 2 pedestals, and underground lines which were in conflict with the Contractor's original controlling operation, the Phase 3 widening of SR-64, until 11/16/21. Since erosion control and the barrier wall required by the MOT plan for the Contractor's original Controlling Operation of the SR-64 widening wasn't set up until 10/27/21, the total delay due to utility relocation was 20 days. Total delays due to late NTP and utility conflicts was 98 days. See the following attachments for documentation:

- Attachment #31: Duke relocation plan showing the intersection of Innovation Parkway and SR-64.
- Attachment #32: Frontier relocation email chain
- Attachment #33: Photo showing existing Frontier pole in conflict with new SR-64 approach radius (left background) as well as new Duke pole installed 11/14/21 (right foreground).
- Attachment #34: Photo showing Frontier pole removed on 11/16/21.
- Attachment #35: Contractor's original schedule. It should be noted the work start date of the Contractor's original schedule is 9/7/21 and excavation for Line PR-A (SR-64) widening is one of the first activities. Since the utilities were in the way, because the HMA plant was shutting down before Thanksgiving when the utilities were finally moved, and because earthwork couldn't be performed in November, work on SR-64 was postponed until Spring of 2022 and the Contractor rearranged their schedule per Attachment #28. It should also be noted the Contractor bid the job with the plan of using the excavated material from the SR-64 widening cut for fill alongside the B Borrow of MSE Wall 1 from STA 16+25 – 17+00 per CASE 4 below.

Finally, see Attachment #36 for ISS 109.05.2 which describes the delay costs the Contractor was eligible for due to the above described delays. 98 days worth of these delay costs would have cost significantly more than the prices in the proposed solutions to keep the project working through the winter and on schedule by the Contractor in CASES 3 and 4.

**CASE 3: Double Handle Cut Material from MSE Wall 4-6 Footprint:**

On 11/8/21, E&B emailed Matt Hines (Attachment #28) stating due to the delays listed, the work detailed in CASES 3 and 4 of this change order were necessary to keep the project working through the winter and keep the project on schedule. See "PREAMBLE FOR CASES 3 AND 4" above for a more detailed explanation of these delays and an explanation based on the project Contract and INDOT and project specifications for why the agreements between Floyd County and the Contractor detailed in CASES 3 and 4 were accepted by Floyd County Project Management. Number 1 in this email refers to CASE 3. Attachment #37 is the marked up plan view of various areas discussed in the email. E&B estimated this quantity at 1900 CY. Matt Hines used actual rock elevations noted in the field from exploratory holes excavated by E&B for spreadsheet calculations (Attachment #38) with widths by station from the cross-sections. From this, the estimated volume to be moved



totaled 1633.52 CY. In the email from E&B, an offer was made to double handle the material at a unit price of \$11 / CY (including markup). Justification for this pricing with and without markup (\$9.834 / CY without markup) utilizing the estimating program Heavy Bid is shown in Attachment #39. This work has yet to be performed. E&B offered to perform a survey of the area to be excavated before and after excavation to determine total CY moved. Alternatively, a CY / truckload ratio could be used to determine actual volume moved in the field. **Using E&B's higher estimate of 1900 CY yields a total cost increase of \$20,900.**

**CASE 4: Replace 16+25 - 17+00 Borrow Dirt with B Borrow to Continue Building Wall 1 through the Winter:**

Item #2 from the email in Attachment #28 involves replacing planned Borrow dirt with B Borrow due to the difficulty in placing dirt in the winter months and to keep the project on schedule. Calculations for this additional quantity of B Borrow is shown in Attachment #40 and #41. Questions asked by Matt Hines regarding the plan's feasibility and the designer's concurrence with E&B's plan can be seen in Attachment #42. The "Access Road" portion of this CASE will not be needed as this area has been undercut as seen in CASE 2. **The total cost added by this CASE using 900 CY of Item #0100 (B Borrow) @ \$35 / CY is \$31,500.**

**CASE 5: RFI 18 - Drainage Pipe Conflict with Wall 4:**

On 11/20/21, RFI 18 was received from the contractor's MSE Wall designer which detailed a conflict with the planned pipe run between STRs 315, 317, 319, 324, and 329 and the wall panel reinforcement straps for MSE Wall 4. On Sheet 7 of EOR's RFI 18 response (Attachment #43), this pipe run can be seen in plan view with red X's - the detail in the bottom right corner shows a cross-section view of the pipe and the reinforcement strip conflict. The EOR's solution to this issue is to move the pipe run towards the centerline and away from Wall 1 (allowing the strips to be skewed around the pipe at less than a 15 degree angle). As seen on Sheet 7, the original pipe run continues directly through the inlets along the right side of the road (STRs 315, 317, 319, 324, and 329) and collects all runoff from the inlets on the left side of the road (STRs 316, 318, 321, 325, 327, and 328) through crossing pipes sloped from left to right (the original pipe run connecting the right side inlets was the low point and collected all drainage). The new pipe run was relocated left towards the center line and lowered in order to catch the drainage from the inlets on both sides of the road and to avoid conflict with the moment / approach slabs above. Additional manholes (STRs 334 - 338) receive the crossing pipes (now from the right side inlets as well as the original left side inlets) and then drain to the hydrodynamic separator (STR 323) and the 60" retention pipe. These manholes are required to receive the drainage from both sides of the road in order to compensate for the lack of connectivity to the right side inlets. In addition, changes to the pipe run lengths and diameters were necessary. The % changes and total cost added to the pipe runs are tabulated in the attached spreadsheet (Attachment #44). The cost added for Item #0390 - 12" Pipe is (-1,947.09). The cost added for Item #0400 - 18" Pipe is \$5,013.12. The cost added using 5 EA of Item #0480 (Manhole, Type C-4) @ \$2676.05 /



EA is \$13,380.25.

On 12/27/22, an email from E&B was received requesting reimbursement for the cost of fabricating STRs 315, 317, 319, and 324 per the original plan which due to RFI 18 are now unusable. An invoice from the structure supplier is attached as Attachment #45. Photos of the unusable STRs are included as Attachment #s 46-50. The total cost added for this reimbursement is \$1905.48. **The resulting total cost increase for CASE 5 is \$18,351.84.**

**Total cost increase for CO #1 is \$148,213.36.**

Awarded Project Amount	\$6,439,800.00
Authorized Project Amount	\$6,439,800.00
Change Order Amount	\$148,213.36
Revised Project Amount	\$6,588,013.36

**Increases/Decreases**

Line Number	Item ID	Unit	Unit Price	Quantity	Amount	Change	Quantity	Amount	Revised	
				Current					Amount	
<b>Section: 1 - Description</b>										
0040	40	CY	\$22.500	5,442.000	\$122,445.00	\$29,047.28	1,290.990	\$29,047.28	6,732.990	\$151,492.28
EXCAVATION COMMON										
<b>Reason: CASE 1: 557.54 CY = \$12,544.65 CASE 2: 733.45 CY = \$16,502.63</b>										
0100	100	CY	\$35.000	4,100.000	\$143,500.00	\$76,684.65	2,190.990	\$76,684.65	6,290.990	\$220,184.65
B BORROW										
<b>Reason: CASE 1: 557.54 CY = \$19,513.90 CASE 2: 733.45 CY = \$25,670.75 CASE 4: 900 CY = \$31,500</b>										

Line Number	Item ID	Unit	Unit Price	Current		Change		Revised	
				Quantity	Amount	Quantity	Amount	Quantity	Amount
0130	130	SYS	\$1.470	1,710.000	\$2,513.70	2,197.000	\$3,229.59	3,907.000	\$5,743.29
GEOTEXTILE FOR PAVEMENT TYPE 1A									
<b>Reason: CASE 2</b>									
0390	390	LF	\$47.490	1,021.000	\$48,487.29	-41.000	-\$1,947.09	980.000	\$46,540.20
PIPE TYPE 2 CIRCULAR 12 IN.									
<b>Reason: CASE 5</b>									
0400	400	LF	\$60.400	156.000	\$9,422.40	83.000	\$5,013.20	239.000	\$14,435.60
PIPE TYPE 2 CIRCULAR 18 IN.									
<b>Reason: CASE 5</b>									
0480	480	EA	\$2,676.050	2.000	\$5,352.10	5.000	\$13,380.25	7.000	\$18,732.35
MANHOLE C4									
<b>Reason: CASE 5</b>									
				Totals	\$331,720.49		\$125,407.88		\$457,128.37

**New Items**

Line Number	Item ID	Unit	Quantity	Unit Price	Extension
<b>Section: 1 - Description</b>					

Line Number	Item ID	Unit	Quantity	Unit Price	Extension
-------------	---------	------	----------	------------	-----------

1730	CO-CYS	CYS	1,900.000	\$11.000	\$20,900.00
------	--------	-----	-----------	----------	-------------

Change Order "CYS" Item: CASE 3 - Double Handle MSE Walls 4-6 Cut and Fill

Reason: CASE 3 - Double Handle MSE Walls 4-6 Cut and Fill

1740	CO-LS	LS	1.000	\$1,905.480	\$1,905.48
------	-------	----	-------	-------------	------------

Change Order "LS" Item: CASE 5 - MSE Wall 4-6 Pipe Run Conflict - Unusable Precast C-4 MH Reimbursement (STRs 315, 317, 319, 324)

Reason: CASE 5 - MSE Wall 4-6 Pipe Run Conflict - Unusable Precast C-4 MH Reimbursement (STRs 315, 317, 319, 324)

2 items  
Total: \$22,805.48

Change Order approved by:

  
\_\_\_\_\_ 3/15/22  
Date

United Consulting  
Date

  
\_\_\_\_\_ 3-16-2022  
Date

E&B  
Date

Floyd County  
Date





**U.S. DEPARTMENT OF COMMERCE**  
**Economic Development Administration**  
**CHICAGO REGIONAL OFFICE**  
 230 SOUTH DEARBORN STREET  
 CHICAGO, ILLINOIS 60604

Don Lopp  
 Director of Operations and County Planning  
 Floyd County  
 2524 Corydon Pike, Suite 204  
 New Albany, IN 47150

Subject: EDA Project No. 06-01-06148  
 Change Order Review

Dear Mr. Lopp:

The Economic Development Administration (EDA) acknowledges receipt of Change Orders No. 2, related to the Floyd County Innovation Park Infrastructure Improvements construction contract with E&B Paving, Inc.

Based on our review of the documents submitted and the justification provided we have determined that the requested changes are within the EDA project scope and guidelines as approved in the Grant Award.

The change orders modify the EDA eligible contract price as follows:

**Summary of Change Orders**

Contractor	Description	Original Contract Amount (including previously approved change orders)	Amount Proposed	Amount Approved	Revised Contract
E&B Paving, Inc	CO #2	\$6,588,013.36 (Total)	\$13,637.25 (increase)	\$13,637.25 (increase)	\$6,601,650.61(Total)
		\$5,352,075.47 (Eligible)	(Eligible)	(Eligible)	\$5,365,712.72 (Eligible)
		\$1,235,937.89 (non-Eligible)	\$0.00 (non- Eligible)	\$0.00 (non- Eligible)	\$1,235,937.89 (non-Eligible)

EDA approval of the change order is to assure compliance with terms of the Grant Agreement and does not imply nor attest to the accuracy or completeness of the design, dimensions, details, proper selection of materials, nor compliance with required codes or ordinances. This responsibility rests with the Grantee.

Page 2

Should you have any questions regarding the contents of this letter, please do not hesitate to contact me at (312) 789-9759.

Sincerely,

Robert Lee  
Project Manager

**ECONOMIC DEVELOPMENT ADMINISTRATION  
 CHANGE ORDER FORM**

EDA Award Number: 06-01-06148 Date: 3/28/22

Recipient: Floyd County Redevelopment Commission

Co-Recipient(s): \_\_\_\_\_

Recipient's Authorized Representative: Matt Hines - (502) 500-8317  
*Name & Phone Number*

Construction Contract No.	Contractor Name	Change Order No.
1-2021	E&B	2

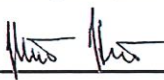
The Change Order will provide for the following:

CO #2 covers the cost of producing and installing custom Structural Plate Arch extension panels onto the ends of the three original planned arches embedded through MSE Walls 4 and 5.  
 Change Order Justification (Include cost analysis, if not unit cost in bid proposal or schedule of values):

Attachment #7 is the email chain discussing CO #2 between the Owner's Representative (Matt Hines), the Contractor (Marty Sabla of E&B), and the EOR (Bill Hawkins of Strand). Owner's Rep was notified of CO by Contractor and forwarded on to EOR on 3/17/22. On 3/22/22 EOR asked about using standard arch panel lengths and having the extra length extend beyond the

	TOTAL	EDA Funded Amount	* Non-EDA Funded Amount
Original Contract Amount	\$ 6,439,800.00	\$ 2,601,913.06	\$ 3,837,886.94
Current Contract Amount adjusted by previous Change Orders	\$ 6,588,013.36	\$ 2,676,019.74	\$ 3,911,993.62
<input checked="" type="checkbox"/> This Change Order will (increase) <input type="checkbox"/> (decrease) the Contract Amount by:	\$ 13,637.25	\$ 6,818.63	\$ 6,818.62
The original, scheduled date of completion is/was:	10/31/22	10/31/22	10/31/22
The new Contract Amount including this Change Order will be:	\$ 6,601,650.61	\$ 2,682,838.37	\$ 3,918,812.24
<input type="checkbox"/> The Contract Time will (increase) <input type="checkbox"/> (decrease) the schedule by:	calendar days	calendar days	calendar days
The estimated date for completion of all work is:	10/31/22 (Date)	10/31/22 (Date)	10/31/22 (Date)

\* Construction components not part of the EDA Grant Project and do not include EDA funds nor local match funds.

  
**Prepared By (Signature)**

3/28/22  
**Date**

Matt Hines, EIT - Construction Manager  
**Prepared By (Typed or Written Name & Title)**





# United Change Order Details

Innovation Parkway Phase 2 & 3

<b>Description</b>	
<b>Prime Contractor</b>	E&B Paving, Inc. 286 W. 300 N. Anderson, IN 46012
<b>Change Order</b>	2
<b>Status</b>	Pending
<b>Date Created</b>	03/31/2022
<b>Type</b>	Design Error
<b>Summary</b>	CO #2 - Structural Plate Arch #s 1-3 Custom Panel Extensions
<b>Change Order Description</b>	<p>This Change Order will provide for the following:</p> <p>CO #2 covers the cost of producing and installing custom Structural Plate Arch extension panels onto the ends of the three original planned arches embedded through MSE Walls 4 and 5 (See Attachment #1 for the original plan sheets provided by Strand, EOR, including plan and profile views, elevation view of the arches embedded through MSE Walls 4 and 5, and a details sheet). These custom arch extension panels are necessary because the original plan lengths of Arch #s 1-3 (44.5' each) don't match the distances between the faces of Walls 4 and 5 at each arch location. Without the arch extensions there would be no support for the MSE Wall panels planned to sit directly on top of the arches or the MSE Wall Structural Backfill directly behind the panels (see Attachment #2 - Precast Panel On Corrugated Arch detail from the MSE Wall Shop Drawings). Attachment #3 shows the original Shop Drawing panel configuration as well as the original length for all 3 arches of 44.5'. Attachment #s 4-6 show the new CO #2 panel configurations and the custom panel extensions for Arch #s 1-3 of lengths 2.5', 1.5', and 0.5' respectively for a total of 4.5' of custom arch panel extension.</p> <p>Change Order Justification:</p> <p>Attachment #7 is the email chain discussing CO #2 between the Owner's Representative (Matt Hines), the Contractor (Marty Sabla of E&amp;B), and the EOR (Bill Hawkins of Strand). Owner's Rep was notified of CO by Contractor and forwarded on to EOR on 3/17/22. On 3/22/22 EOR asked about using standard arch panel lengths and having the extra length extend beyond the face of the wall. On 3/23/22 Contractor responded the cost of using standard 8' long arch panels (minimum standard size) at contract unit price would cost about 3 times as much as using the</p>



custom panel extensions and would also require additional rock excavation. On 3/24/22, EOR agreed with using the custom arch panel extensions. Attachment #8 is the quote from the manufacturer (Contech) with a total price of \$12,397.50. With E&B's 10% markup, the total cost of CO #2 is \$13,637.25. For comparison, three eight foot sections of standard structural plate arch at the contract unit price of \$1,634.24 / LF @ 24 LF = \$39,221.76 – which is 2.88 times more expensive before factoring in extra rock excavation and the poor aesthetics that would occur using standard 8' arch panels at the contract unit price.

Awarded Project Amount \$6,439,800.00  
 Authorized Project Amount \$6,439,800.00  
 Change Order Amount \$13,637.25  
 Revised Project Amount \$6,453,437.25

**New Items**

Line Number	Item ID	Unit	Quantity	Unit Price	Extension
<b>Section: 1 - Description</b>					
1750	CO-LFT	LFT	4.500	\$3,030.500	\$13,637.25
Change Order "LFT" Item: CO #2 - Structural Plate Arch Custom Panel Extensions					
<b>Reason: CO #2</b>					
1 item					Total: \$13,637.25

**Attachments**

Document	Name	Description	Submission Date
FCIP_P2-3_-_CO_2_-_EDA_CO_Form_-_3-28-22.pdf	FCIP P2-3 - CO 2 - EDA CO Form - 3-28-22.pdf	EDA CO Form and Attachments	03/31/2022 03:37 PM EDT
1 attachment			

Change Order approved by:



3/31/22

United Consulting

Cory Logsdon  
Digitally signed by  
Cory Logsdon

Date

5/6/22

E&B

Date

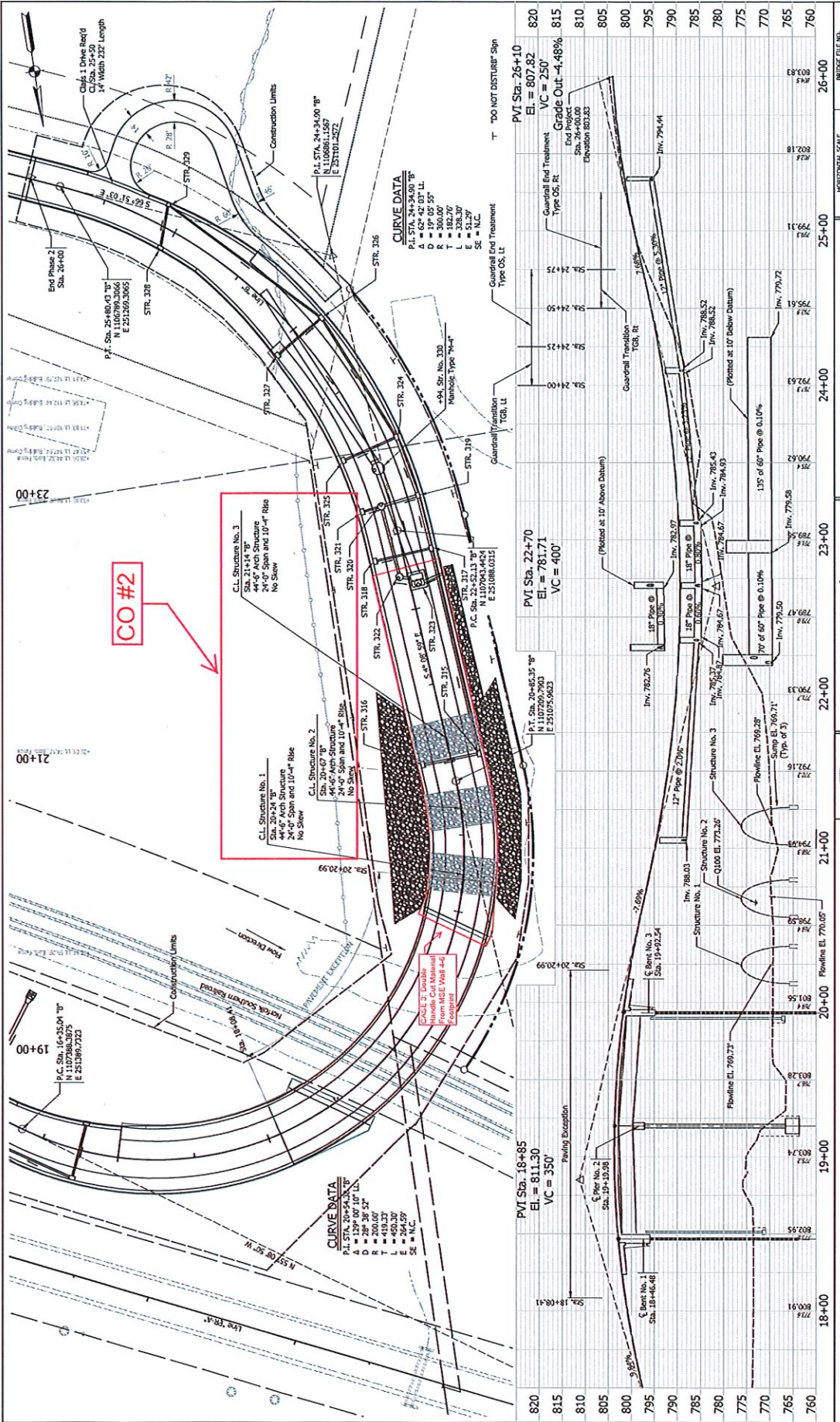
Floyd County

Date



**ATTACHMENT #1**

**CO #2**

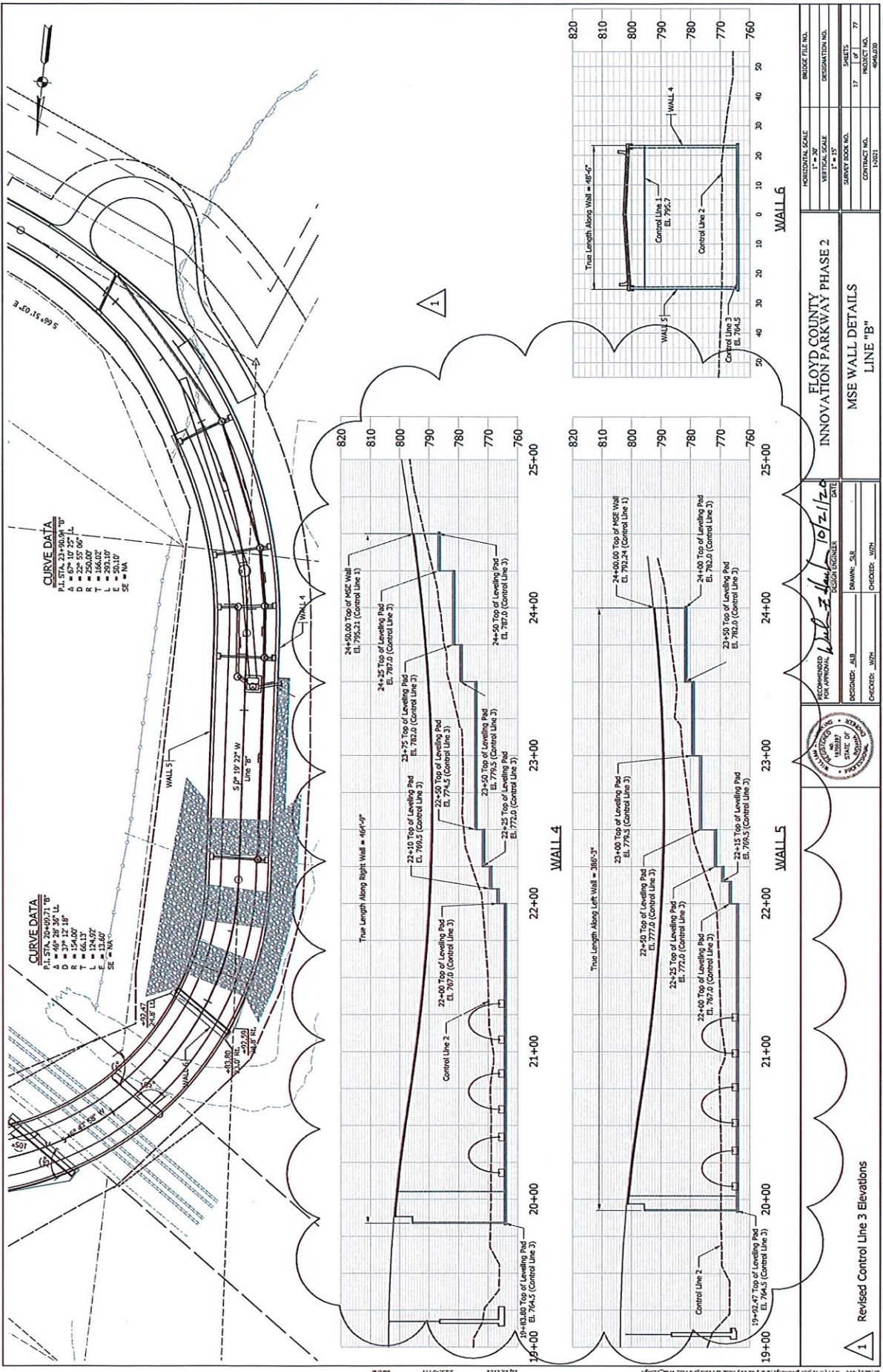


HORIZONTAL SCALE 1" = 30' VERTICAL SCALE 1" = 5.00' SURVEY FOOT NO. 11 CONTRACT NO. 15021 PRODUCT NO. 456430	
RECOMMENDED FOR APPROVAL: <i>Paul Z. Hand</i> 10/21/20 DESIGN ENGINEER DRAWN: JLB CHECKED: JPH	
FLOYD COUNTY INNOVATION PARKWAY PHASE 2 PLAN & PROFILE LINE 'B'	





**ATTACHMENT #1**





**ATTACHMENT #1**

**GENERAL NOTES**

Structure to be 3'-0" perpendicular span and a 16'-0" rise. Contact multiple radius arch or equal.

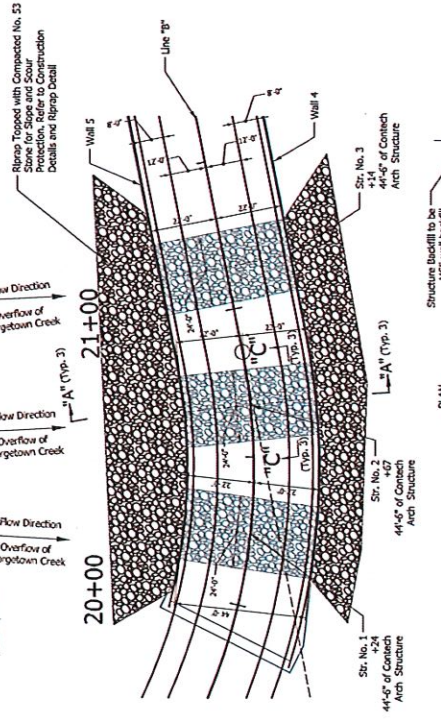
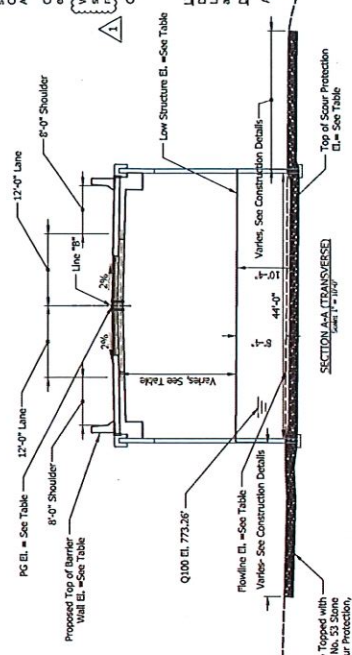
Contractor shall verify the existing flowline elevation to set the appropriate pump and footing depth. Notes and details shall be provided on the structure in accordance with detail and manufacturer's recommendations.

Culvert footings shall be keyed 2 feet into sound rock.

**DESIGN DATA**

**LIVE LOAD**  
Designed for HL-93 loading. In accordance with AASHTO LRFD Bridge Design Specifications, Seventh Edition, and applicable provisions.

**DEAD LOAD**  
Actual weight plus 3% per for future wearing surface.



SECTION AA TRANSVERSE  
Scale: 1/4" = 1'-0"

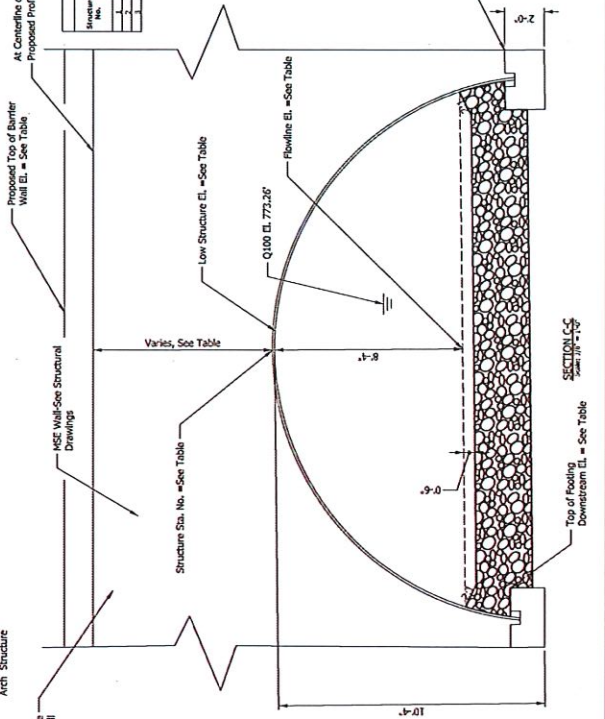
PLAN  
Scale: 1/4" = 1'-0"

Structure No.	Sta. No.	Upstream (ft)		Downstream (ft)		Span (ft)	Clearance (ft)	Proposed Water Table Elevation (ft)
		Flowline	Top of Structure	Flowline	Top of Structure			
1	252+3.33	264.00	264.00	264.00	264.00	24.00	21.00	262.14
2	252+3.33	264.00	264.00	264.00	264.00	24.00	21.00	262.14
3	252+3.33	264.00	264.00	264.00	264.00	24.00	21.00	262.14

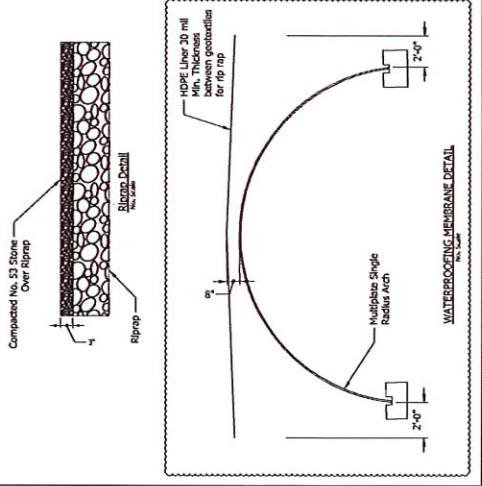
**MULTIPLATE SINGLE RADIUS ARCH**  
AT STA. 20+24  
SPAN: 24'-0"  
RISE: 10'-4", SUMP: 2'-0", CLEAR HEIGHT: 8'-4"  
LENGTH: 47'-0", SKEW: 0°  
INNOVATION PARKWAY OVER GEORGETOWN CREEK  
FLOYD COUNTY

**MULTIPLATE SINGLE RADIUS ARCH**  
AT STA. 20+67  
SPAN: 24'-0"  
RISE: 10'-4", SUMP: 2'-0", CLEAR HEIGHT: 8'-4"  
LENGTH: 47'-0", SKEW: 0°  
INNOVATION PARKWAY OVER GEORGETOWN CREEK  
FLOYD COUNTY

**MULTIPLATE SINGLE RADIUS ARCH**  
AT STA. 21+14  
SPAN: 24'-0"  
RISE: 10'-4", SUMP: 2'-0", CLEAR HEIGHT: 8'-4"  
LENGTH: 47'-0", SKEW: 0°  
INNOVATION PARKWAY OVER GEORGETOWN CREEK  
FLOYD COUNTY



SECTION CC  
Scale: 1/4" = 1'-0"



WATERPROOFING MEMBRANE DETAIL  
Scale: 1/4" = 1'-0"

**FLOYD COUNTY INNOVATION PARKWAY PHASE 2 GENERAL PLANS STRUCTURES 1, 2, AND 3 DETAILS**

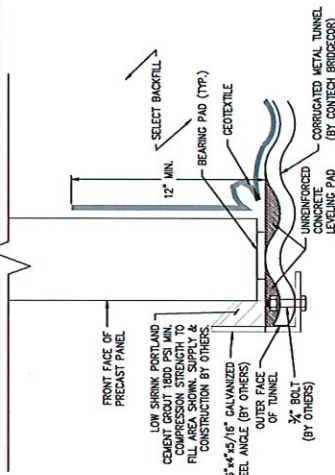
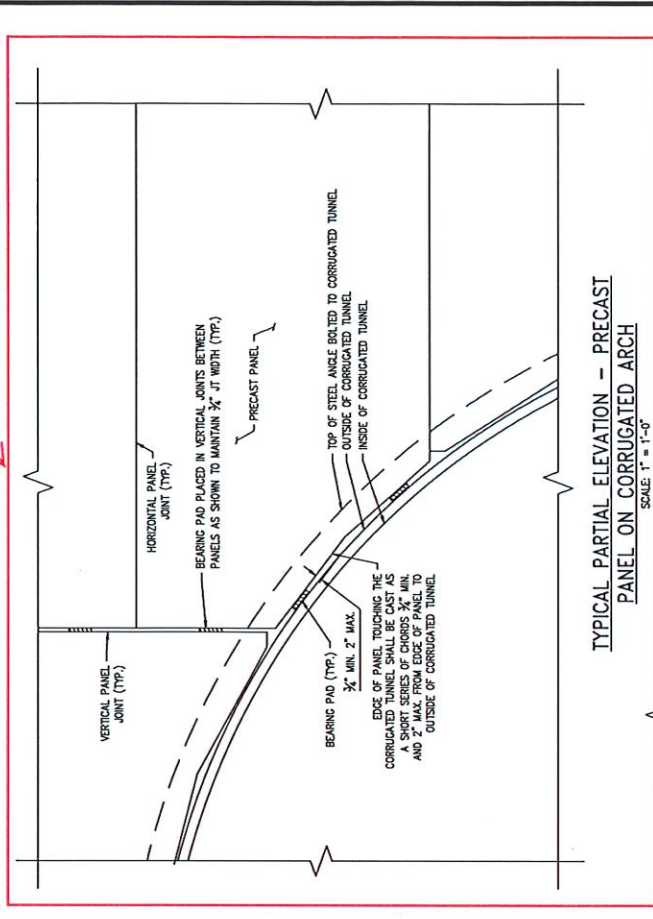
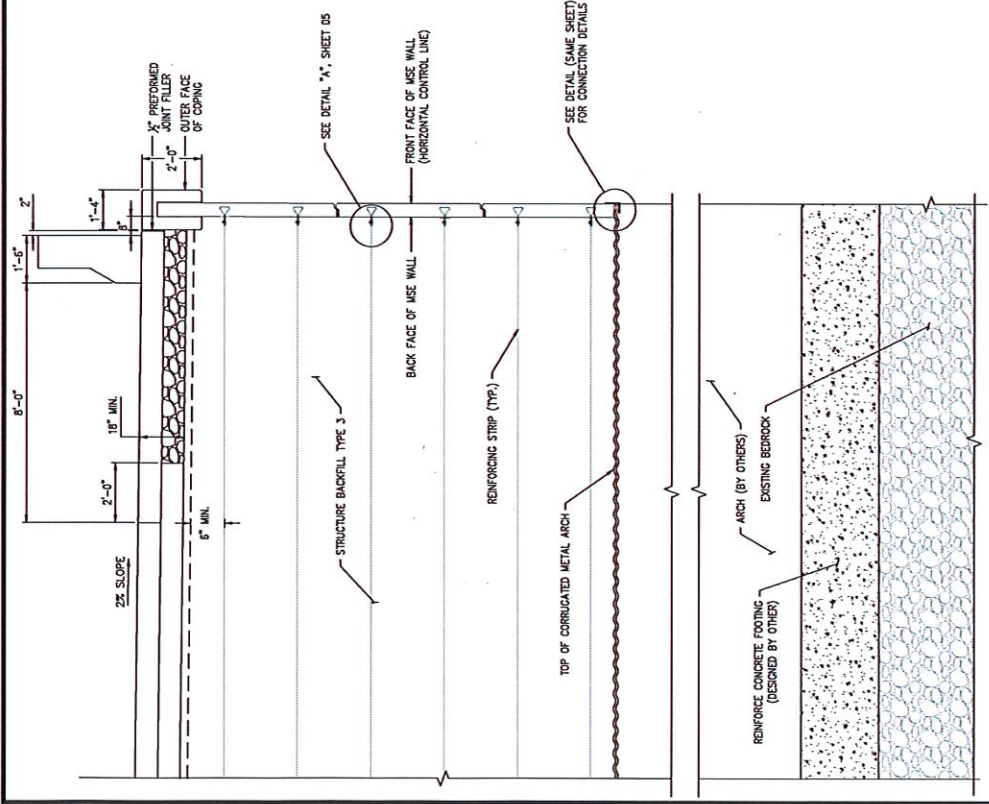
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_  
DESIGNED: AUB CHECKED: JPH  
DRAWN: SLE CHECKED: JPH

BRIDGE FILE NO. \_\_\_\_\_  
AN NAME \_\_\_\_\_  
AN NUMBER \_\_\_\_\_  
SMART ROAD NO. \_\_\_\_\_  
CONTRACT NO. 12021  
SHEET NO. 218 OF 218  
PROJECT NO. 4046030

Waterproofing Membrane Detail Added

CO #2

ATTACHMENT #2



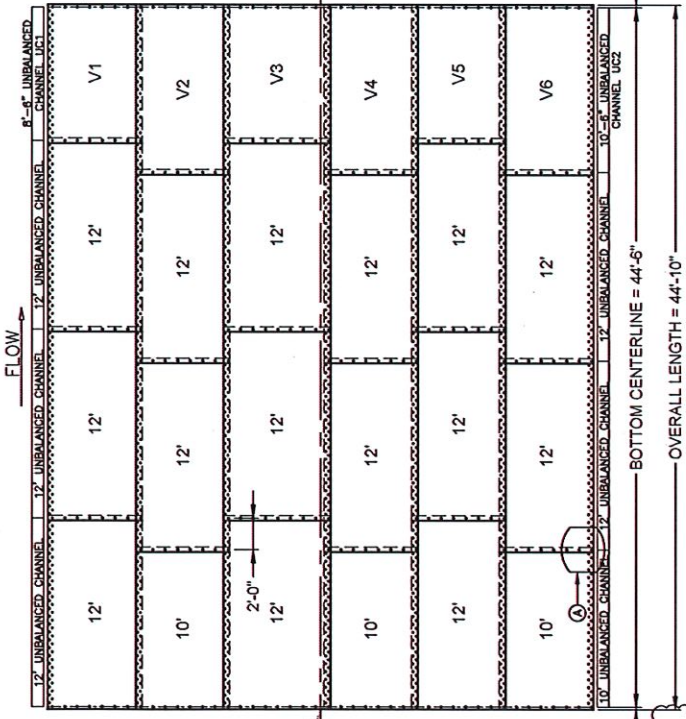
CERTIFIED WITH RESPECT TO INTERNAL STABILITY AND LOCAL EXTERNAL STABILITY (BLOCK AND SLIDING) AND EXTERNAL STABILITY (BLOCK AND SLIDING) OF THIS DESIGN ONLY. SEE FULL RESUME IN TITLE BLOCK BELOW.

**ALEXANDER ABRHAM**  
REGISTERED PROFESSIONAL ENGINEER  
No. PE1170049  
STATE OF INDIANA  
2/21/2022

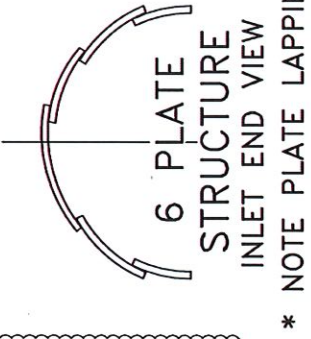
DESIGNED BY: DWC	PROJECT ENGR: DWC	CHECKED BY: JMM / JLE	ENGR MANAGER: ARS	REV.	DATE	DESCRIPTION
<p><b>REINFORCED EARTH</b> 4810 Woodland Road, Suite 200, Sterling, VA, 20158 (703) 547-8787 "REINFORCED EARTH" AND THE REINFORCED EARTH LOGO ARE REGISTERED TRADEMARKS OF THE REINFORCED EARTH COMPANY.</p>						
<p>The design contained on these drawings is based on information provided by the Owner. Based on the geometry, soil density, soil strength and loading conditions, the design is certified with respect to 1) Internal Stability and 2) the following Local External Stability conditions: (a) Sliding (CIR), (b) Bearing Capacity (B/C), (c) Foundation bearing capacity, (d) Settlement and global stability are the responsibility of the Owner.</p>						
<p>This drawing contains information proprietary to The Reinforced Earth Company, and is being furnished for the use of FLOYD COUNTY COMMISSIONERS. The information contained herein is not to be transmitted to any other organization unless specifically authorized in writing by The Reinforced Earth Company. The Reinforced Earth Company is the exclusive licensee in the United States of the Reinforced Earth Company's patents. Foundation bearing capacity does not constitute an expressed or implied license under any applicable patents.</p>						
COUNTY JOB NO.:	6046.030	PROJECT NAME:	INNOVATION PARKWAY - PHASE 2 & 3	DATE:	2/9/2022	
CONTRACT NO.:	REC-2115	LOCATION:	FLOYD COUNTY, INDIANA	OWNER:	FLOYD COUNTY COMMISSIONERS	SCALE:
DRAWING NO.:	11 OF 13	DESIGNED BY:		ENGR MANAGER:		AS SHOWN
TYPICAL SECTION CONT.						



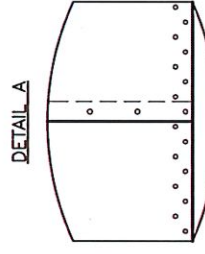
**ATTACHMENT #3**



3 IDENTICAL STRUCTURES  
 OVERALL LENGTH = 44'-10"  
 BOTTOM CENTERLINE = 44'-6"  
 LIP (2")



6 PLATE STRUCTURE  
 INLET END VIEW  
 \* NOTE PLATE LAPPING



DETAIL A  
 CIRCUMFERENTIAL PLATE LAPPING AS SHOWN HERE IS TYPICAL THROUGHOUT STRUCTURE

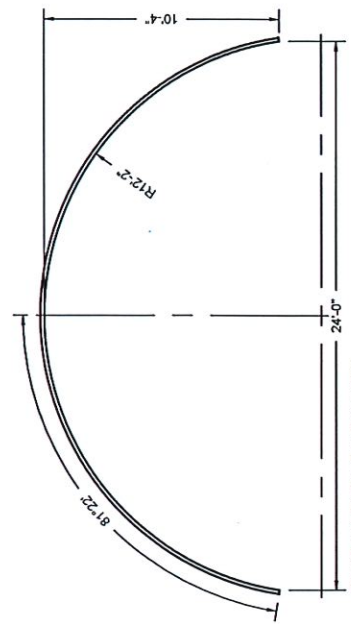


PLATE MAKE-UP: 5 @ 21PI, 1 @ 24PI  
 129 PI Total  
 AREA = 188.3 SF

**NOTES:**

1. ALL DIMENSIONS ARE TO INSIDE OF CORRUGATION CREST, UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

LOADING: HL-93  
 MIN HOC: 3.0  
 MAX HOC: 24.0  
 HOT-DIP GALVANIZED

**IMPORTANT**  
 ASSEMBLY INSTRUCTIONS WILL BE SHIPPED WITH THE STRUCTURE. THEY ARE LOCATED IN THE BRIGHT COLOURED BUCKET.

**IMPORTANT**  
 WHEN BEGINNING ASSEMBLY, BE SURE BOLT PATTERNS ARE ORIENTED SO BOLT HOLE PATTERNS MATCHES THAT OF THE PREVIOUS AND ASSEMBLY INSTRUCTIONS.

**TORQUE NOTE**

PLATE LAPS MUST BE PROPERLY MATED IN A TANGENT FASHION TO AVOID STRESS CONCENTRATIONS. TORQUE TO SEAT THE CORRUGATION FOR PLAIN GALVANIZED PLATES. AN INSTALLATION BOLT TORQUE OF 100-300 FT-LB IS RECOMMENDED. WHEN SEAL SEALANT TAPE OR ASPHALT (SHOP RECOMMENDED) IS USED TO SEAL THE LAPS, THE TORQUE SHOULD BE 150-300 FT-LB AND RETIGHTENED TO THESE LIMITS AFTER 4 TO 8 HOURS. TORQUE LEVELS ARE FOR INSTALLATION, NOT RESIDUAL IN-SERVICE REQUIREMENTS. TORQUE LEVELS ARE SPECIALLY OBTAINED WITH REGARD TO CORRELATIONS THROUGH MANDRUM BRANDING CONTACT AREA WITH THE CORRUGATION. TORQUE SHOULD BE INSTALLED SUCH THAT THE ROUNDED PORTION IS IN CONTACT WITH THE PLATE.

PROJECT NO.	680732	DATE:	8/19/2021
REV. NO.	010	DRAWN:	BTS
CHECKED:		APPROVED:	
PLANT ORDER NO.			
SALES ORDER NO.	680732-010-MP-CON-A		

INNOVATION PARKWAY PHASE 2  
 NEW ALBANY, IN



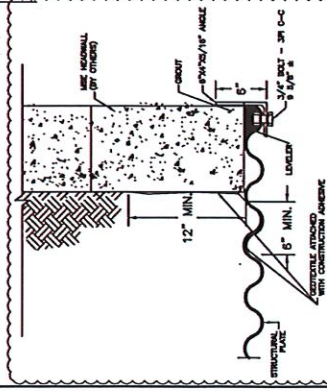
CONTRACT DRAWING

**CONTECH**  
 ENGINEERED SOLUTIONS LLC  
 WWW.CONTECHES.COM  
 700 Tech Drive, Westchester, NY 43021  
 859-744-3339 859-744-9665 FAX

NO.	DATE	REVISION DESCRIPTION
1	10/12/2021	UNBALANCED CHANNEL DETAILS
2	9/7/2021	MSE WALL, MEMBRANE, FOOTING CALL OUT

INLET	BULLET	TYPE	STRUCTURE	SINGLE	RADIUS	ARCH	
NO.	00	NO.	00	NO.	00	NO.	
SIZE	129	SPAN	24'-0"	RES.	10'-4"	LOGEN.	0.44'-6"

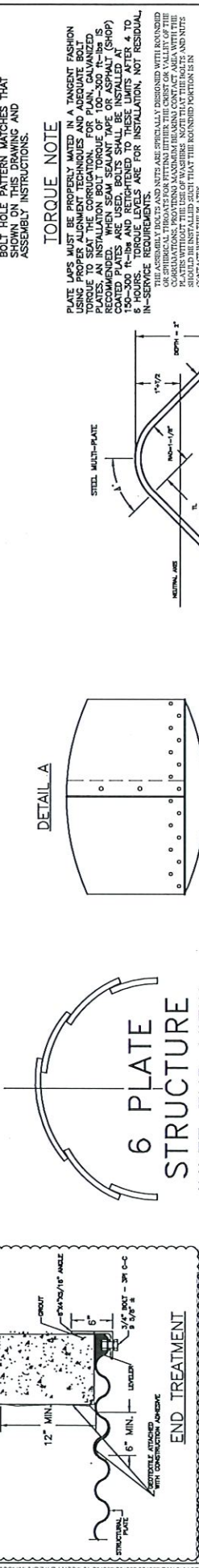
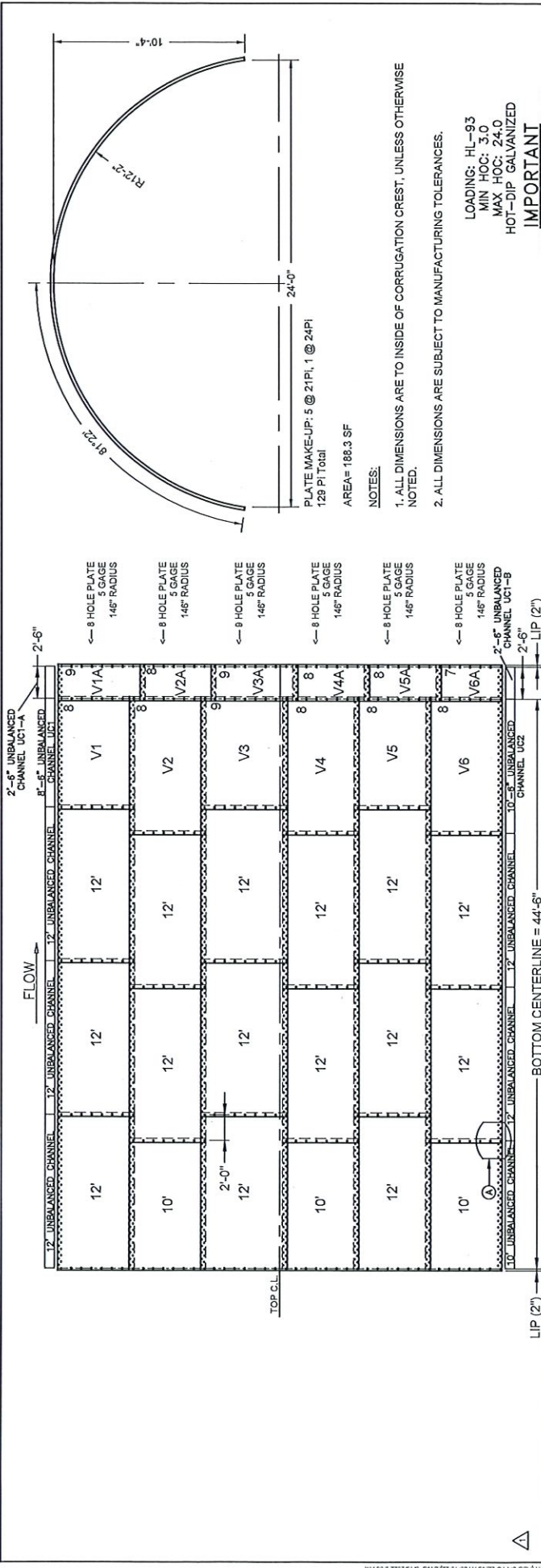
**END TREATMENT**



SMALL PRINT LEGAL NOTICE AND TERMS AND CONDITIONS



**ATTACHMENT #4**



**LOADING:** HL-93  
 MIN HOC: 3.0  
 MAX HOC: 24.0  
 HOT-DIP GALVANIZED

**IMPORTANT**  
 ASSEMBLY INSTRUCTIONS WILL BE SHIPPED WITH THE STRUCTURE. THEY ARE LOCATED IN THE BRIGHT COLORED BUCKET.

**IMPORTANT**  
 WHEN BEGINNING ASSEMBLY, BE CERTAIN PLATES ARE ORIENTED SO BOLT HOLE PATTERN MATCHES THAT SHOWN ON THIS DRAWING AND ASSEMBLY INSTRUCTIONS.

**TORQUE NOTE**  
 PLATE LAYS MUST BE PROPERLY MATED IN A TANGENT FASHION USING PROPER ALIGNMENT TECHNIQUES AND ADEQUATE BOLT TORQUE TO INSURE PROPER CONTACT BETWEEN PLATES. AN INSTALLATION BOLT TORQUE OF 100-300 FT-LBS IS RECOMMENDED. WHEN SEAM SEALANT TAPE OR ASPHALT (SHOP COATED) PLATES ARE USED, BOLTS SHALL BE INSTALLED AT 4 TO 6 HOURS AFTER INSTALLATION. TORQUE LEVELS ARE FOR RESIDUAL IN-SERVICE REQUIREMENTS.

THE ASSEMBLY BOLTS AND NUTS ARE SPECIALLY DESIGNED WITH ROUNDED HEADS TO PREVENT DAMAGE TO THE PLATE SURFACE. THE BOLTS AND NUTS SHALL BE INSTALLED WITH THE CORRELATIONS: PROTECTING AGAINST RELATIVE CONTACT AREA WITH THE PLATES WITHOUT THE USE OF WASHERS. NOTE THAT THE BOLTS AND NUTS CONTACT WITH THE PLATES.

PLATE MAKE-UP: 5 @ 21PI, 1 @ 24PI  
 129 PI Total  
 AREA= 188.3 SF

**NOTES:**  
 1. ALL DIMENSIONS ARE TO INSIDE OF CORRUGATION CREST, UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

**DETAIL A**  
 CIRCUMFERENTIAL PLATE LAPPING AS SHOWN HERE IS TYPICAL THROUGHOUT STRUCTURE

**6 PLATE STRUCTURE INLET END VIEW**  
 \* NOTE PLATE LAPPING

**STRUCTURE 1**  
 COLOR CODE: RED

**650732-010-MP-FAB-A**

**INNOVATION PARKWAY PHASE 2**  
**NEW ALBANY, IN**

**CONTECH ENGINEERED SOLUTIONS LLC**  
 www.conteches.com  
 700 Tech Drive, Winchester, KY 40391  
 859-744-3339 859-744-9685 FAX

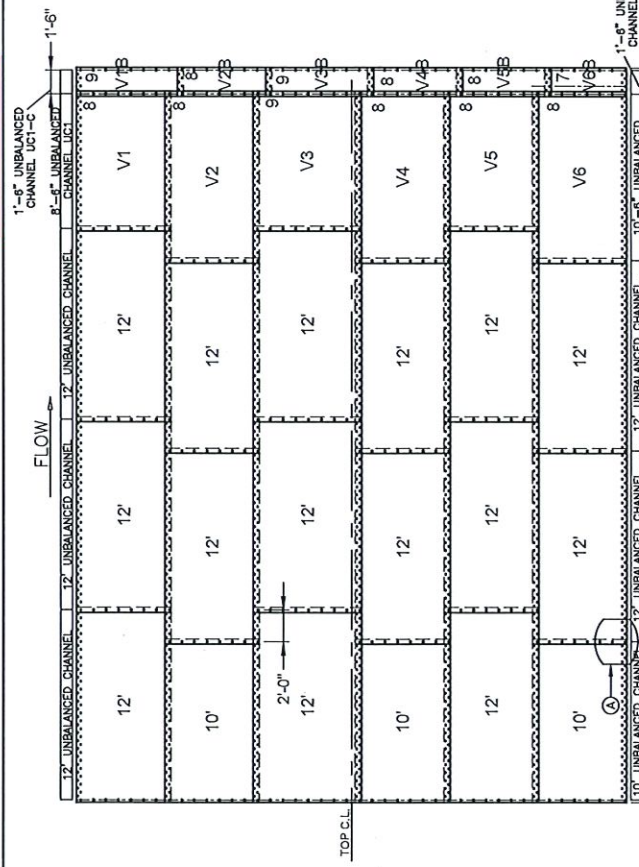
**CONTECH STRUCTURAL PLATE FABRICATION DRAWING**

NO.	DATE	REVISION DESCRIPTION
1	07/20/21	MSE WALL; MEMBRANE; FOOTING CALL OUT
2	10/12/2021	UNBALANCED CHANNEL DETAILS
3	3/16/2022	LENGTH ADD ON

DESIGNED	880732	DATE	12/02/2021
CHECKED		DRAWN	BTS/SCC
APPROVED			

PROJECT NO: 650732-010-MP-FAB-A  
 SCALE ORDER NO: 0R9606750  
 SHEET NO: 1 of 3

**ATTACHMENT #5**



OVERALL LENGTH = 46'-4"  
 STRUCTURE 2  
 COLOR CODE: RED



END TREATMENT  
 REPAIR LAPPING  
 CIRCUMFERENTIAL PLATE LAPPING AS SHOWN HERE IS TYPICAL THROUGHOUT STRUCTURE

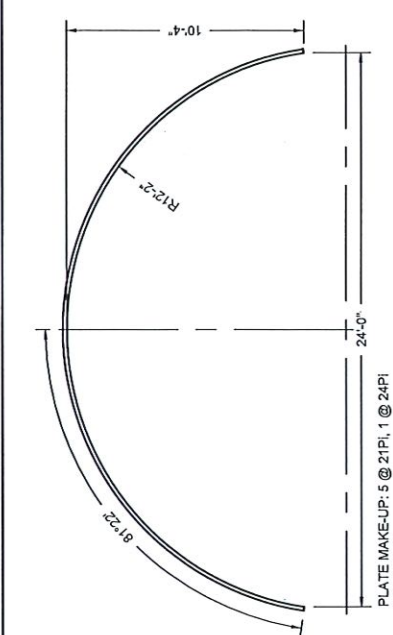


PLATE MAKE-UP: 5 @ 21PI, 1 @ 24PI  
 129 PI TOTAL  
 AREA = 188.3 SF

NOTES:  
 1. ALL DIMENSIONS ARE TO INSIDE OF CORRUGATION CREST, UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

LOADING: HL-93  
 MIN HOC: 3.0  
 MAX HOC: 24.0  
 HOT-DIP GALVANIZED

**IMPORTANT**  
 ASSEMBLY INSTRUCTIONS WILL BE SHIPPED WITH THE STRUCTURE. THEY ARE LOCATED IN THE BRIGHT COLORED BUCKET.

**IMPORTANT**  
 WHEN BEGINNING ASSEMBLY, BE SURE CERTAIN PLATES ARE ORIENTED SO BOLT HOLE PATTERNS MATCHES THAT SHOWN ON THIS DRAWING AND ASSEMBLY INSTRUCTIONS.

**TORQUE NOTE**  
 PLATE LAYS MUST BE PROPERLY MATED IN A TANGENT FASHION USING PROPER ALIGNMENT TECHNIQUES AND ADEQUATE BOLT TORQUE TO PREVENT PLATE SEPARATION. THE TORQUE TO BE USED FOR INSTALLATION BOLT TORQUE OF 100-300 FT-LBS IS RECOMMENDED. WHEN SEAM SEALANT TAPE OR ASPHALT (SHOP COATED) PLATES ARE USED, BOLTS SHALL BE INSTALLED AT 1/4" TO 1/2" FROM THE SEAM. TORQUE LEVELS ARE FOR INSTALLATION, NOT RESIDUAL IN-SERVICE REQUIREMENTS.

THE ASSEMBLY BOLTS AND NUTS ARE SPECIALLY DESIGNED WITH ROUNDED HEADS TO PREVENT DAMAGE TO THE CORRUGATED METAL SURFACE. THE BOLTS SHOULD BE INSTALLED WITHOUT THE USE OF WASHINGTON NOTE THAT THE BOLTS AND NUTS CONTACT WITH THE PLATE.



PLANT ORDER NO. 0R9606750  
 SALES ORDER NO. 680732-020-MP-FAB-A

PROJECT NO.	680732	DATE	12/29/2021
DESIGNED		DRAWN	BT/SSCC
CHECKED		APPROVED	
SHEET NO.	1	OF	3

INNOVATION PARKWAY PHASE 2  
 NEW ALBANY, IN

**CONTECH**  
 ENGINEERED SOLUTIONS LLC  
 WWW.CONTECHES.COM  
 700 Tech Drive, Winchester, KY 40391  
 859-744-3339 859-744-9655 FAX

FABRICATION DRAWING

NO.	DATE	REVISION DESCRIPTION
3	3/16/2022	UNBALANCED CHANNEL DETAILS
2	10/12/2021	UNBALANCED CHANNEL DETAILS
1	07/02/21	ISE WALL MEMBRANE FOOTING CALL OUT

INLET OUTLET TYPE STRUCTURE SINGLE RADIUS ARCH  
 SIZE 129  
 SPAN = 24'-0"  
 RISE = 10'-4"  
 LENGTH @ 9.44'-6"

CONTECH ENGINEERED SOLUTIONS LLC  
 WWW.CONTECHES.COM  
 700 Tech Drive, Winchester, KY 40391  
 859-744-3339 859-744-9655 FAX



**ATTACHMENT #6**

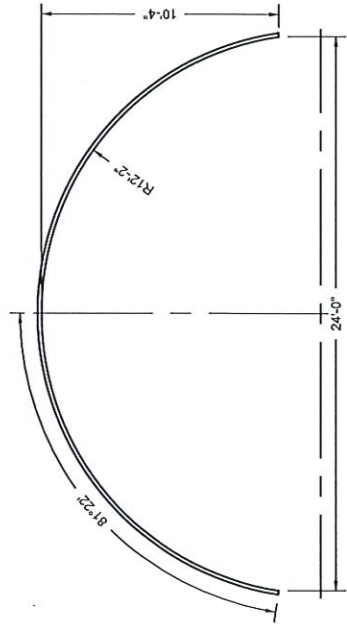
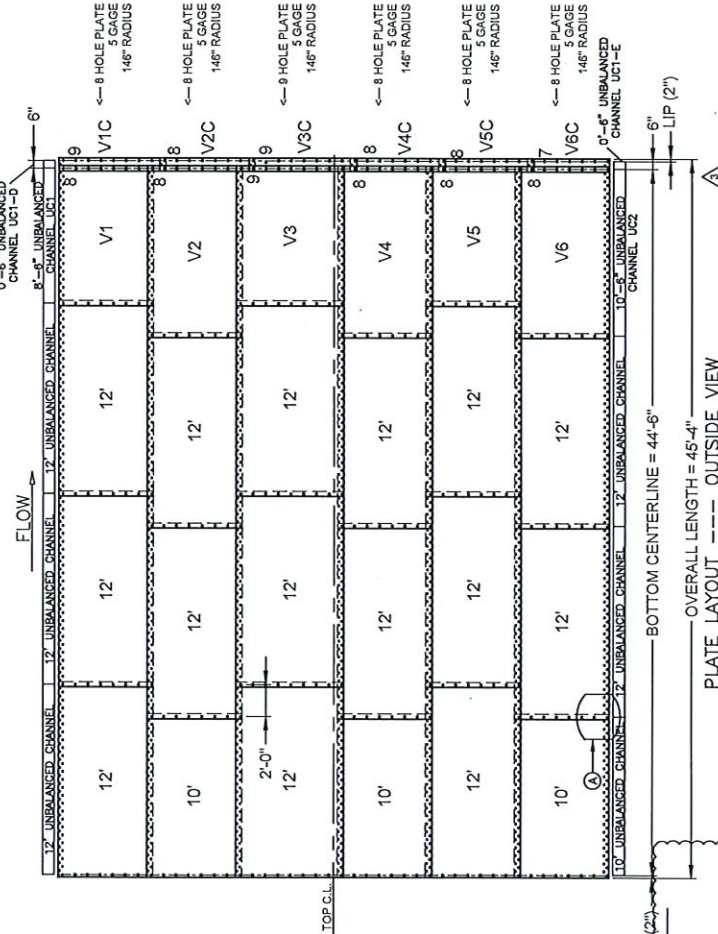


PLATE MAKE-UP: 5 @ 21PI, 1 @ 24PI  
 129 PI TOTAL  
 AREA = 188.3 SF

**NOTES:**  
 1. ALL DIMENSIONS ARE TO INSIDE OF CORRUGATION CREST, UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.

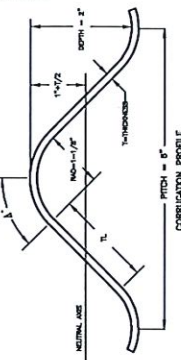
LOADING: HL-93  
 MIN HOC: 3.0  
 MAX HOC: 24.0  
 HOT-DIP GALVANIZED

**IMPORTANT**  
 ASSEMBLY INSTRUCTIONS WILL BE SHIPPED WITH THE STRUCTURE. THEY ARE LOCATED IN THE BRIGHT COLORED BUCKET.

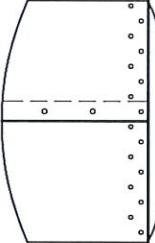
**IMPORTANT**  
 WHEN BEGINNING ASSEMBLY, BE SURE CERTAIN PLATES ARE ORIENTED SO BOLT HOLE PATTERN MATCHES THAT SHOWN ON THIS DRAWING AND ASSEMBLY INSTRUCTIONS.

**TORQUE NOTE**

PLATE LAPS MUST BE PROPERLY MATED IN A TANGENT FASHION USING PROPER ALIGNMENT TECHNIQUES AND ADEQUATE BOLT TIGHTENING TORQUE. THE BOLT TIGHTENING TORQUE MUST BE IN ACCORDANCE WITH THE INSTALLATION BOLT TORQUE TABLE. UNBALANCED CHANNELS ARE NOT TO BE INSTALLED AT BOLT COORDINATES. WHEN SEAM SEALANT TAPE OR ASPHALT (SHOP COATED) PLATES ARE USED, BOLTS SHALL BE INSTALLED AT 1/2\"/>



**DETAIL A**

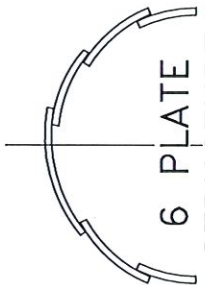


CIRCUMFERENTIAL PLATE LAPPING AS SHOWN HERE IS TYPICAL THROUGHOUT STRUCTURE

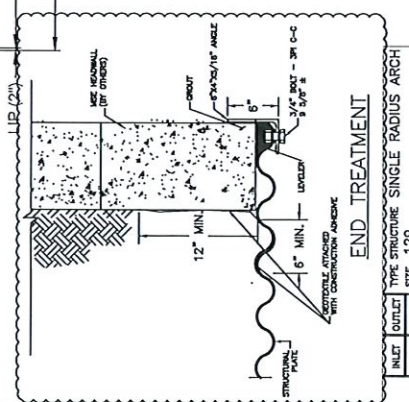
BOTTOM CENTERLINE = 44'-6\"/>

OVERALL LENGTH = 45'-4\"/>

PLATE LAYOUT --- OUTSIDE VIEW  
 STRUCTURE 3



**6 PLATE STRUCTURE INLET END VIEW**  
 \* NOTE PLATE LAPPING



NO	DATE	REVISION DESCRIPTION
1	9/7/2021	MISE WALL; MEMBRANE; FOOTING CALL OUT
2	10/12/2021	UNBALANCED CHANNEL DETAILS
3	3/16/2022	LENGTH ADD ON

NO	DATE	REVISION DESCRIPTION
1	9/7/2021	MISE WALL; MEMBRANE; FOOTING CALL OUT
2	10/12/2021	UNBALANCED CHANNEL DETAILS
3	3/16/2022	LENGTH ADD ON

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**CONTECH STRUCTURAL PLATE FABRICATION DRAWING**

INNOVATION PARKWAY PHASE 2  
 NEW ALBANY, IN

PROJECT NO:	680732
DESIGNED:	030
CHECKED:	
APPROVED:	BTJ/SJCC
DRAWN:	
DATE:	12/02/2021

PLANT ORDER NO:	OR9606750
SAGES ORDER NO:	

ISSUE #	680732-030-MP-FAB-A
---------	---------------------

SHEET NO. 1 of 3

**Matt Hines**

---

**From:** Hawkins, Bill <Bill.Hawkins@strand.com>  
**Sent:** Thursday, March 24, 2022 8:55 AM  
**To:** Matt Hines; Don Lopp  
**Cc:** Brian Miller; Chris Miller; Robert Stein; Mike Jennings  
**Subject:** RE: Innovation Parkway Pipe Arches

Based on this information, I agree. Just wanted to be sure we looked down every avenue.

Bill

---

**From:** Matt Hines <Matt.Hines@ucindy.com>  
**Sent:** Wednesday, March 23, 2022 12:04 PM  
**To:** Hawkins, Bill <Bill.Hawkins@strand.com>; Don Lopp <dlopp@floydcounty.in.gov>  
**Cc:** Brian Miller <Brian.Miller@ucindy.com>; Chris Miller <Chris.Miller@ucindy.com>; Robert Stein <Robert.Stein@ucindy.com>; Mike Jennings <Mike.Jennings@ucindy.com>  
**Subject:** FW: Innovation Parkway Pipe Arches

[EXTERNAL EMAIL]: Verify sender before opening links or attachments.

Bill and Don,

See below from Marty. Seem like a no brainer to me. Using the custom plates will cost 1/3 of the cost of using standard plates – not to mention the additional rock ex if we use standard plates. It will also look better since the arch will be flush with the wall. Let me know what you think.

FYI I gave Robert Lee with EDA a heads up on this possible CO last week so once I hear back from both of you I need to get the ball rolling with him.

Thanks!

**Matt Hines, EIT**  
**Construction Manager**

**United Consulting**  
**8440 Allison Pointe Blvd., Suite 200**  
**Indianapolis, IN 46250**

**Mobile:** 502-500-8317  
**Email:** [matt.hines@ucindy.com](mailto:matt.hines@ucindy.com)  
**Web:** [www.ucindy.com](http://www.ucindy.com)

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ATTACHMENT #7

From: Marty Sabla <[marty.sabla@ebpaving.com](mailto:marty.sabla@ebpaving.com)>  
Sent: Wednesday, March 23, 2022 7:25 AM  
To: Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)>  
Subject: Re: Innovation Parkway Pipe Arches

Matt,

It looks like the smallest panel length on the original design was 8.5', so each structure would be 8.5' longer:

8.5 Lft x \$1,634.24 = \$13,891.04 PER STRUCTURE and there are 3.

Also there would be that much more additional rock excavation to extend the footer area for each of the 6 footers.

On Wed, Mar 23, 2022 at 7:03 AM Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)> wrote:

Marty,

For the custom built arch length proposal can you provide me total length of normal arch used at contract unit price and total length of custom arch used at CO price?

For the county's idea of using all normal arch at contract unit price can you give me the total length required?

Thanks!

Sent from my iPhone

Begin forwarded message:

**From:** Marty Sabla <[marty.sabla@ebpaving.com](mailto:marty.sabla@ebpaving.com)>  
**Date:** March 23, 2022 at 6:41:02 AM EDT  
**To:** Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)>  
**Subject:** Re: FW: Innovation Parkway Pipe Arches

Matt,

I got the cost for the extensions and it is right about \$13,637.25 including our markup. That is \$3,030.5 per linear foot, and our original material price was \$1,166 per linear foot ( I can show you the quotes to verify those numbers for you). What I was thinking was that since the arch is paid by the linear foot, you could pay the extra lengths at each structure at the contract unit price and a change order could be made to cover the additional material cost above what our original material price was. That would make the change order look like this:

$\$3030.5 - \$1,166 = \$1,864.5 \times 4.5 \text{ LFT} = \$8,390.25$

And the overrun on the arch installation would be:

$4.5 \text{ LFT} \times \$1,634.24 = \$7,354.08$

**ATTACHMENT #7**

This will be cheaper than using standard panel lengths that are 8 to 12' and would have to be paid for at the contract unit price of \$1,634.24 for the structures to stick out farther using standard panels.

Let me know what you think, or if you can follow my early morning logic....lol.

On Tue, Mar 22, 2022 at 10:17 PM Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)> wrote:

FYI.

**Matt Hines, EIT**

**Construction Manager**

**United Consulting**

**8440 Allison Pointe Blvd., Suite 200**

**Indianapolis, IN 46250**

**Mobile: 502-500-8317**

**Email: [matt.hines@ucindy.com](mailto:matt.hines@ucindy.com)**

**Web: [www.ucindy.com](http://www.ucindy.com)**

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**ATTACHMENT #7**

**From:** Hawkins, Bill <[Bill.Hawkins@strand.com](mailto:Bill.Hawkins@strand.com)>  
**Sent:** Tuesday, March 22, 2022 4:31 PM  
**To:** Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)>  
**Cc:** Cody Brown <[cody.brown@ebpaving.com](mailto:cody.brown@ebpaving.com)>; [kyle.richardson@ebpaving.com](mailto:kyle.richardson@ebpaving.com)  
**Subject:** RE: Innovation Parkway Pipe Arches

The County is not concerned that the pipe be flush with the wall, it can stick out from the face on the downstream end.

Is it possible to use standard lengths and just have it protrude further and not use the specialty extensions?

Bill

---

**From:** Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)>  
**Sent:** Thursday, March 17, 2022 5:04 PM  
**To:** Hawkins, Bill <[Bill.Hawkins@strand.com](mailto:Bill.Hawkins@strand.com)>  
**Subject:** FW: Innovation Parkway Pipe Arches

**[EXTERNAL EMAIL]:** Verify sender before opening links or attachments.

Bill,

See attached length extensions to the arches proposed by E&B for your review.

Thanks!

**Matt Hines, EIT**

**Construction Manager**

**United Consulting**

8440 Allison Pointe Blvd., Suite 200

Indianapolis, IN 46250

**Mobile:** 502-500-8317

**Email:** [matt.hines@ucindy.com](mailto:matt.hines@ucindy.com)

**Web:** [www.ucindy.com](http://www.ucindy.com)

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---

From: Marty Sabla <[marty.sabla@ebpaving.com](mailto:marty.sabla@ebpaving.com)>  
Sent: Thursday, March 17, 2022 2:13 PM  
To: Matt Hines <[Matt.Hines@ucindy.com](mailto:Matt.Hines@ucindy.com)>  
Cc: Kyle Richardson <[kyle.richardson@ebpaving.com](mailto:kyle.richardson@ebpaving.com)>; Cody Brown <[cody.brown@ebpaving.com](mailto:cody.brown@ebpaving.com)>  
Subject: Innovation Parkway Pipe Arches

Matt,

Attached are the revised drawings for the pipe arches, showing the revised length that our engineers came up with, based on the approved MSE walls 4,5 and 6. I have also listed the length of the structures at the wall. Since the arch is constructed "square", the longest length has to be accommodated. Let me know if you have any questions. This would be an overrun of the item for the arches, but the additional per foot price is not enough to cover the additional cost to make the extensions. That is because they are not a standard size, and it looks like they will have to do a couple special setups to make the short extensions. Once I get all the pricing I will get it to you.

Here is what our construction engineer is thinking the lengths need to be:



Structure #1

46.90' and 46.37'

Structure #2

45.83' and 45.28'

Structure #3

45.00 and 45.00

Thank you,

**Marty Sabla PMP, CCM, CPESC**

*Project Manager/Estimator*  
6211 Gheens Mill Road

Jeffersonville, IN 47130

MOBILE: 502-295-0735

[Marty.sabla@ebpaving.com](mailto:Marty.sabla@ebpaving.com)

[www.ebpaving.com](http://www.ebpaving.com)



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