

Technical Memorandum

To: Mr. Aaron Praus, Public Works Director
City of Dickinson, ND

From: Dennis McAlpine, PE
Houston Engineering, Inc.

Subject: City of Dickinson Cell 3B-5 & East Side Wall Liner Construction_Final Pay Request

Date: September 3, 2024

City of Dickinson Project Manager: Aaron Praus

City of Dickinson Project Number: 202313

City of Dickinson Project Name: Cell 3B-5 & East Side Wall Liner Construction

City of Dickinson Accounting Code: 219-0000-519-07-30

City of Dickinson Cost Code: 800

HEI Project: 6167-0011

AP
9/6/2024

The purpose of this memorandum is to recommend the final pay request to Baranko Brothers, Inc. (Baranko) for work completed on the City of Dickinson Cell 3B-5 & East Side Wall Liner Construction Project.

Project Update

The project was substantially completed on August 22, 2024. Baranko has completed all remaining work on the project per the items noted on the August 7, 2024 punch-list. This work included vegetative restoration of the site and placement of the remaining amount of drainage layer materials on the Cell floor. This final payment includes the release of retainage (\$136,277.54) that was contractually held pending project completion. This final payment includes the final unit quantity balancing for the project as identified in Change Order #2.

Payment Application Review

We have reviewed the completed quantities submitted by Baranko Brothers, Inc.
The following is a summary of payment:

Work completed to date:	\$3,086,366.84	(100% of total project contract amount per Change Order #2)
Less 5% retainage:	\$ 0.00	(release of retainage per final payment)
Less previous payments	\$2,589,267.60	
Pay Request for this estimate:	\$ 497,099.24	

Recommendation

We recommend authorization of Final Payment for the Cell 3B-5 Construction Project in the amount of \$497,099.24 to Baranko Brothers, Inc. A detailed summary of work completed including the Final Payment Request and Change Order #2 documentation is attached.

Contractor's Application for Payment

Owner: <u>City of Dickinson</u> Engineer: <u>Houston Engineering Inc.</u> Contractor: <u>Baranko Brothers, Inc.</u> Project: <u>Landfill Cell 3B-5 Construction</u> Contract: <u>Prime</u>	Owner's Project No.: <u>202313</u> Engineer's Project No.: <u>6167-0011</u> Contractor's Project No.: _____																								
Application No.: <u>FINAL</u> Application Date: <u>9/3/2024</u> Application Period: From <u>7/28/2024</u> to <u>8/29/2024</u>																									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">1. Original Contract Price</td> <td style="width: 30%; text-align: right;">\$ 3,190,643.30</td> </tr> <tr> <td>2. Net change by Change Orders</td> <td style="text-align: right;">\$ (104,276.46)</td> </tr> <tr> <td>3. Current Contract Price (Line 1 + Line 2)</td> <td style="text-align: right;">\$ 3,086,366.84</td> </tr> <tr> <td>4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)</td> <td style="text-align: right;">\$ 3,086,366.84</td> </tr> <tr> <td>5. Retainage</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. <u>0%</u> X <u>\$ 3,086,366.84</u> Work Completed</td> <td style="text-align: right;">\$ -</td> </tr> <tr> <td style="padding-left: 20px;">b. _____ X <u>\$ -</u> Stored Materials</td> <td style="text-align: right;">\$ -</td> </tr> <tr> <td style="padding-left: 20px;">c. Total Retainage (Line 5.a + Line 5.b)</td> <td style="text-align: right;">\$ -</td> </tr> <tr> <td>6. Amount eligible to date (Line 4 - Line 5.c)</td> <td style="text-align: right;">\$ 3,086,366.84</td> </tr> <tr> <td>7. Less previous payments (Line 6 from prior application)</td> <td style="text-align: right;">\$ 2,589,267.60</td> </tr> <tr> <td>8. Amount due this application</td> <td style="text-align: right;">\$ 497,099.24</td> </tr> <tr> <td>9. Balance to finish, including retainage (Line 3 - Line 4)</td> <td style="text-align: right;">\$ -</td> </tr> </table>		1. Original Contract Price	\$ 3,190,643.30	2. Net change by Change Orders	\$ (104,276.46)	3. Current Contract Price (Line 1 + Line 2)	\$ 3,086,366.84	4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 3,086,366.84	5. Retainage		a. <u>0%</u> X <u>\$ 3,086,366.84</u> Work Completed	\$ -	b. _____ X <u>\$ -</u> Stored Materials	\$ -	c. Total Retainage (Line 5.a + Line 5.b)	\$ -	6. Amount eligible to date (Line 4 - Line 5.c)	\$ 3,086,366.84	7. Less previous payments (Line 6 from prior application)	\$ 2,589,267.60	8. Amount due this application	\$ 497,099.24	9. Balance to finish, including retainage (Line 3 - Line 4)	\$ -
1. Original Contract Price	\$ 3,190,643.30																								
2. Net change by Change Orders	\$ (104,276.46)																								
3. Current Contract Price (Line 1 + Line 2)	\$ 3,086,366.84																								
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 3,086,366.84																								
5. Retainage																									
a. <u>0%</u> X <u>\$ 3,086,366.84</u> Work Completed	\$ -																								
b. _____ X <u>\$ -</u> Stored Materials	\$ -																								
c. Total Retainage (Line 5.a + Line 5.b)	\$ -																								
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 3,086,366.84																								
7. Less previous payments (Line 6 from prior application)	\$ 2,589,267.60																								
8. Amount due this application	\$ 497,099.24																								
9. Balance to finish, including retainage (Line 3 - Line 4)	\$ -																								
Contractor's Certification The undersigned Contractor certifies, to the best of its knowledge, the following: (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment; (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.																									
Contractor: <u>Baranko Bros., Inc.</u>																									
Signature: <u>Cody Adso</u> Date: <u>9/3/2024</u>																									
Recommended by Engineer By: <u>Dennis McAlpine</u> Title: <u>Project Manager</u> Date: <u>9/3/2024</u> Approved by Funding Agency By: _____ Title: _____ Date: _____	Approved by Owner By: _____ Title: _____ Date: _____																								

Progress Estimate - Unit Price Work

Owner:	City of Dickinson	Contractor's Application for Payment
Engineer:	Houston Engineering Inc.	Owner's Project No.: 202313
Contractor:	Baranko Brothers, Inc.	Engineer's Project No.: 6167-0011
Project:	Landfill Cell 3B-5 Construction	Contractor's Project No.: 01-24-0039
Contract:	Prime	

Application No.: _____ FINAL _____														Application Period: _____				Application Date: _____			
A		B		C	D	E		F		G	H		I	J	K	L					
				Contract Information				Value of Bid Item (C X E)		Work Completed	Value of Work Completed to Date (E X G)		Materials Currently Stored (not in G)		Work Completed and Materials Stored to Date (H + I)	% of Value of Item (J / F)	Balance to Finish (F - J)				
Bid Item No.	Description	Item Quantity	Units			Unit Price (\$)		Value of Bid Item (C X E) (\$)	Estimated Quantity Incorporated in the Work	Work Completed (\$)	Value of Work Completed to Date (E X G) (\$)	Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (J / F) (%)	Balance to Finish (F - J) (\$)						
Original Contract																					
1	Mobilization & Demobilization	1	LS			\$ 274,196.27		274,196.27	1.00		274,196.27		274,196.27	100%							
2	Clearing and Grubbing	1	LS			\$ 32,749.69		32,749.69	1.00		32,749.69		32,749.69	100%							
3	Demolition and Removals (Existing Piping)	2,292	LF			\$ 25.18		57,712.56	2,292.00		57,712.56		57,712.56	100%							
4	Demolition and Removals (Existing Leachate Pond Geomembrane)	2,037	SY			\$ 4.57		9,309.09	2,037.00		9,309.09		9,309.09	100%							
5	Salvage Existing Gravel Surfacing (CV) (0.5-foot depth)	2,034	CY			\$ 13.82		28,109.88	2,034.00		28,109.88		28,109.88	100%							
6	Leachate Conveyance Manhole Modification	1	LS			\$ 7,035.05		7,035.05	1.00		7,035.05		7,035.05	100%							
7	Watering for Construction/Dust Control	1,563	1000 GAL			\$ 21.95		34,307.85	1,563.00		34,307.85		34,307.85	100%							
8	Haul Road Maintenance	1	LS			\$ 18,880.16		18,880.16	1.00		18,880.16		18,880.16	100%							
9	Stormwater/Leachate Control & Removal	1	LS			\$ 26,202.16		26,202.16	1.00		26,202.16		26,202.16	100%							
10	Test Pit Excavation	40	HR			\$ 598.67		23,946.80	40.00		23,946.80		23,946.80	100%							
11	Muck Excavation (CV)	6,500	CY			\$ 8.82		57,330.00	6,500.00		57,330.00		57,330.00	100%							
12	Waste Excavation (LV)	500	CY			\$ 14.04		7,020.00	500.00		7,020.00		7,020.00	100%							
13	Subgrade Correction (CV)	5,000	CY			\$ 8.79		43,950.00	5,000.00		43,950.00		43,950.00	100%							
14	Common Excavation (CV) (P)	221,782	CY			\$ 4.26		944,791.32	221,782.00		944,791.32		944,791.32	100%							
15	HDPE Geomembrane Liner (60 mil)	20,343	SY			\$ 10.69		217,466.67	20,343.00		217,466.67		217,466.67	100%							
16	Re-Compacted Soil Barrier Layer (CV) (P)	56,281	CY			\$ 7.81		439,554.61	56,281.00		439,554.61		439,554.61	100%							
17	Sand Drainage Layer (placement only)	7,637	CY			\$ 7.22		55,139.14	7,637.00		55,139.14		55,139.14	100%							
18	Leachate Collection Aggregate	670	CY			\$ 166.42		111,501.40	670.00		111,501.40		111,501.40	100%							
19	Leachate Collection Non-Woven Geotextile Wrap	2,817	SY			\$ 10.41		29,324.97	2,817.00		29,324.97		29,324.97	100%							
20	Leachate Collection Perforated Pipe (8" HDPE)	1,124	LF			\$ 55.77		62,685.48	1,124.00		62,685.48		62,685.48	100%							
21	Leachate Collection Pipe Cleanout (6" HDPE)	423	LF			\$ 46.45		19,648.35	423.00		19,648.35		19,648.35	100%							
22	Leachate Collection Pipe Cleanout (8" HDPE)	1,222	LF			\$ 72.55		88,656.10	1,222.00		88,656.10		88,656.10	100%							
23	Leachate Collection Cleanout Pipe Extension (6" PVC DR-17)	376	LF			\$ 53.10		19,965.60	376.00		19,965.60		19,965.60	100%							
24	Leachate Sump Riser Pipe Perforated (24" HDPE)	5	LF			\$ 1,855.93		9,279.65	5.00		9,279.65		9,279.65	100%							
25	Leachate Sump Riser Pipe Solid (24" HDPE)	231	EA			\$ 209.60		48,417.60	231.00		48,417.60		48,417.60	100%							
26	Bollards	8	EA			\$ 1,161.67		9,293.36	8.00		9,293.36		9,293.36	100%							
27	Amended Seed Bed	143,400	SF			\$ 0.12		17,208.00	143,400.00		17,208.00		17,208.00	100%							
28	Stormwater Stand-pipe Assembly	1	LS			\$ 17,370.09		17,370.09	1.00		17,370.09		17,370.09	100%							
29	15" RCP Culvert	75	LF			\$ 175.18		13,138.50	75.00		13,138.50		13,138.50	100%							

Progress Estimate - Unit Price Work

Owner:	City of Dickinson	Contractor's Application for Payment
Engineer:	Houston Engineering Inc.	Owner's Project No.: 202313
Contractor:	Baranko Brothers, Inc.	Engineer's Project No.: 6167-0011
Project:	Landfill Cell 3B-5 Construction	Contractor's Project No.: 01-24-0039
Contract:	Prime	

Application No.: _____ FINAL _____			Application Period: _____			From _____		07/28/24 _____		to _____		08/29/24 _____		Application Date: _____				09/03/24 _____	
A	B	C	D	Contract Information		E	F	G	H		I	J	K	L					
Bid Item No.	Description	Item Quantity	Units	Unit Price (\$)		Value of Bid Item (C X E) (\$)	Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)		Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (J / F) (%)	Balance to Finish (F - J) (\$)						
30	18" RCP Culvert	389	LF	\$	168.39	65,503.71	389.00	65,503.71			65,503.71	100%	-	-					
31	15" RCP Apron	2	EA	\$	1,194.31	2,388.62	2.00	2,388.62			2,388.62	100%	-	-					
32	18" RCP Apron	12	EA	\$	1,398.49	16,781.88	12.00	16,781.88			16,781.88	100%	-	-					
33	Rip Rap	12	TON	\$	175.92	2,111.04	12.00	2,111.04			2,111.04	100%	-	-					
34	Slit Fence	1,065	LF	\$	4.23	4,504.95	1,065.00	4,504.95			4,504.95	100%	-	-					
35	9-inch Straw Wattles	500	LF	\$	4.01	2,005.00	500.00	2,005.00			2,005.00	100%	-	-					
36	Temporary Erosion Control Blanket	250	SY	\$	4.87	1,217.50	250.00	1,217.50			1,217.50	100%	-	-					
37	Seeding, Mulch, Fertilizer & Disk Anchoring	143,400	SF	\$	0.11	15,774.00	143,400.00	15,774.00			15,774.00	100%	-	-					
38	4" Gate Valve with Stem Riser and Box	1	EA	\$	4,535.12	4,535.12	1.00	4,535.12			4,535.12	100%	-	-					
Bid Alternative #1						-		-			-		-	-					
BA1-1	Demolition and Removals (Existing Site Fencing)	1,755	LF	\$	16.06	28,185.30	1,755.00	28,185.30			28,185.30	100%	-	-					
BA1-2	Salvage and Replace Existing Fence	879	LF	\$	61.77	54,295.83	879.00	54,295.83			54,295.83	100%	-	-					
Bid Alternative #2						-		-			-		-	-					
BA2-1	Class 13 Aggregate Surface	7,000	TON	\$	38.45	269,150.00	7,000.00	269,150.00			269,150.00	100%	-	-					
Original Contract Totals						\$	3,190,643.30	\$		\$	3,190,643.30	\$	-	\$	-	\$	-		

Change Orders														
Change Order #1														
BA2-1	Class 13 Aggregate Surface		(4,800.00)	TON			\$ 38.45	\$ (184,560.00)	(4,800.00)			(184,560.00)	100%	-
CO-1A	Reuse of gravel material from pad coverage		512.52	TON			\$ 6.91	\$ 3,541.51	512.52			3,541.51	100%	-
CO-1B	Placement of onsite gravel salvage		1,384.68	TON			\$ 6.91	\$ 9,568.15	1,384.68			9,568.15	100%	-
CO-1C	Placement of City provided gravel material from PW		1,384.68	TON			\$ 6.91	\$ 9,568.15	1,384.68			9,568.15	100%	-
Change Order #2 - FINAL														
CO-2A	Salvage Existing Gravel Surfacing (CV) (0.5-foot depth)		(138.00)	CY			\$ 13.82	\$ (1,907.16)	(138.00)			(1,907.16)	100%	-
CO-2B	Watering for Construction/Dust Control		2,434.00	1000 GAL			\$ 21.95	\$ 53,426.30	2,434.00			53,426.30	100%	-
CO-2C	Test Pit Excavation		4.00	HR			\$ 598.67	\$ 2,394.68	4.00			2,394.68	100%	-
CO-2D	Muck Excavation (CV)		(5,600.00)	CY			\$ 8.82	\$ (49,392.00)	(5,600.00)			(49,392.00)	100%	-
CO-2E	Waste Excavation (LV)		3,073.00	CY			\$ 14.04	\$ 43,144.92	3,073.00			43,144.92	100%	-
CO-2F	Subgrade Correction (CV)		(5,000.00)	CY			\$ 8.79	\$ (43,950.00)	(5,000.00)			(43,950.00)	100%	-
CO-2G	Common Excavation (CV) (P)		20,000.00	CY			\$ 4.26	\$ 85,200.00	20,000.00			85,200.00	100%	-
CO-2H	HDPE Geomembrane Liner (60 mil)		163.00	SY			\$ 10.69	\$ 1,742.47	163.00			1,742.47	100%	-
CO-2I	Re-Compacted Soil Barrier Layer (CV) (P)		(72.00)	CY			\$ 7.81	\$ (562.32)	(72.00)			(562.32)	100%	-
CO-2J	Sand Drainage Layer (placement only)		1.00	LS			\$ 10,000.00	\$ 10,000.00	1.00			10,000.00	100%	-
CO-2K	Leachate Collection Perforated Pipe (8" HDPE)		(17.00)	LF			\$ 55.77	\$ (948.09)	(17.00)			(948.09)	100%	-

Unit Price

(c) 2018 National Society of Professional Engineers for EDCD. All rights reserved.

EICDC C-620 Contractor's Application for Payment

Progress Estimate - Unit Price Work

Owner:	City of Dickinson	Owner's Project No.:	202313
Engineer:	Houston Engineering Inc.	Engineer's Project No.:	6167-0011
Contractor:	Baranko Brothers, Inc.	Contractor's Project No.:	01-24-0039
Project:	Landfill Cell 3B-S Construction		
Contract:	Prime		

Contractor's Application for Payment

Application No.: _____ FINAL _____				Application Period: From 07/28/24 _____ to 08/29/24 _____				Application Date: 09/03/24						
A	B	C	D	Contract Information		E	F	G	H		I	J	K	L
Bid Item No.	Description	Item Quantity	Units	Unit Price (\$)		Value of Bid Item (C X E) (\$)	Work Completed		Value of Work Completed to Date (E X G) (\$)	Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (J / F) (%)	Balance to Finish (F - J) (\$)	
							Estimated Quantity Incorporated in the Work							
CO-2L	Leachate Collection Pipe Cleanout (8" HDPE)	(12.00)	LF	\$	72.55	\$ (870.60)		(12.00)		(870.60)		(870.60)	100%	-
CO-2M	Leachate Collection Pipe Cleanout Alpha Couplers	1.00	LS	\$	2,718.48	\$ 2,718.48		1.00		2,718.48		2,718.48	100%	-
CO-2N	Amended Seed Bed*	40,423.00	SF	\$	0.12	\$ 4,850.76		40,423.00		4,850.76		4,850.76	100%	-
CO-2O	Stormwater Stand-pipe Assembly Modifications	1.00	LS	\$	(1,642.30)	\$ (1,642.30)		1.00		(1,642.30)		(1,642.30)	100%	-
CO-2P	Culvert Stormwater Piping Re-stocking Fee	1.00	LS	\$	5,152.51	\$ 5,152.51		1.00		5,152.51		5,152.51	100%	-
CO-2Q	15" RCP Culvert	(75.00)	LF	\$	175.18	\$ (13,138.50)		(75.00)		(13,138.50)		(13,138.50)	100%	-
CO-2R	18" RCP Culvert	(103.00)	LF	\$	168.39	\$ (17,344.17)		(103.00)		(17,344.17)		(17,344.17)	100%	-
CO-2S	15" RCP Apron	(2.00)	EA	\$	1,194.31	\$ (2,388.62)		(2.00)		(2,388.62)		(2,388.62)	100%	-
CO-2T	18" RCP Apron	(4.00)	EA	\$	1,398.49	\$ (5,593.96)		(4.00)		(5,593.96)		(5,593.96)	100%	-
CO-2U	Silt Fence	(65.00)	LF	\$	4.23	\$ (274.95)		(65.00)		(274.95)		(274.95)	100%	-
CO-2V	9-inch Straw Wattles	(500.00)	LF	\$	4.01	\$ (2,005.00)		(500.00)		(2,005.00)		(2,005.00)	100%	-
CO-2W	Temporary Erosion Control Blanket	(250.00)	SY	\$	4.87	\$ (1,217.50)		(250.00)		(1,217.50)		(1,217.50)	100%	-
CO-2X	Seeding, Mulch, Fertilizer & Disk Anchoring*	40,423.00	SF	\$	0.11	\$ 4,446.53		40,423.00		4,446.53		4,446.53	100%	-
CO-2Y	4" Gate Valve with Stem Riser and Box	(1.00)	EA	\$	4,535.12	\$ (4,535.12)		(1.00)		(4,535.12)		(4,535.12)	100%	-
CO-2Z	Demolition and Removals (Existing Site Fencing)	(5.00)	LF	\$	16.06	\$ (80.30)		(5.00)		(80.30)		(80.30)	100%	-
CO-2AA	Salvage and Replace Existing Fence	(879.00)	LF	\$	61.77	\$ (54,295.83)		(879.00)		(54,295.83)		(54,295.83)	100%	-
CO-2AB	Replace Entrance Gate with new 30-foot gate w/actuators	1.00	LS	\$	37,985.50	\$ 37,985.50		1.00		37,985.50		37,985.50	100%	-
CO-2AC	Remove Chain-link fence around pond	540.00	LF	\$	10.00	\$ 5,400.00		540.00		5,400.00		5,400.00	100%	-
CO-2AD	Remove Chain-link North of entrance road	129.00	LF	\$	10.00	\$ 1,290.00		129.00		1,290.00		1,290.00	100%	-
CO-2AE	Placement of onsite gravel salvage	(808.32)	TON		6.91	\$ (5,585.49)		(808.32)		(5,585.49)		(5,585.49)	100%	-
CO-2AF	Placement of City provided gravel material from PW	808.32	TON		6.91	\$ 5,585.49		808.32		5,585.49		5,585.49	100%	-
Change Order Total						\$	(104,276.46)		\$	(104,276.46)	\$	-	100%	\$ -
Original Contract and Change Orders														
Project Totals						\$	3,086,366.84		\$	3,086,366.84	\$	3,086,366.84	100%	\$

CHANGE ORDER NO.: 2 including Final Unit Quantity Balancing

Owner: **City of Dickinson, ND**
 Engineer: **Houston Engineering, Inc**
 Contractor: **Baranko Brothers, Inc.**
 Project: **Landfill Cell 3B-5 Construction**
 Contract Name: **City Dickinson Project #202313**

Owner's Project No.: **202313**
 Engineer's Project No.: **6167-0011**
 Contractor's Project No.: **01-24-0039**

Effective Date
of Change

Date Issued: **9/3/2024** Order: **9/3/2024**

The Contract is modified as follows upon execution of this Change Order:

Description:

Modifications to the amount/quantity of various line item materials and associated construction operations were necessary to complete the project. The list below accounts for the overages/deducts of contract item quantities for Change Order #2 to finalize the construction of Landfill Cell 3B-5:

Change Order #2 – FINAL					
CO-2A	Salvage Existing Gravel Surfacing (CV) (0.5-foot depth)	(138.00)	CY	\$ 13.82	(1,907.16)
CO-2B	Watering for Construction/Dust Control	2,434.00	1000 GAL	\$ 21.95	53,426.30
CO-2C	Test Pit Excavation	4.00	HR	\$ 598.67	2,394.68
CO-2D	Muck Excavation (CV)	(5,600.00)	CY	\$ 8.82	(49,392.00)
CO-2E	Waste Excavation (LV)	3,073.00	CY	\$ 14.04	43,144.92
CO-2F	Subgrade Correction (CV)	(5,000.00)	CY	\$ 8.79	(43,950.00)
CO-2G	Common Excavation (CV) (P)	20,000.00	CY	\$ 4.26	85,200.00
CO-2H	HDPE Geomembrane Liner (60 mil)	163.00	SY	\$ 10.69	1,742.47
CO-2I	Re-Compacted Soil Barrier Layer (CV) (P)	(72.00)	CY	\$ 7.81	(562.32)
CO-2J	Sand Drainage Layer (placement only)	1.00	LS	\$ 10,000.00	10,000.00
CO-2K	Leachate Collection Perforated Pipe (8" HDPE)	(17.00)	LF	\$ 55.77	(948.09)
CO-2L	Leachate Collection Pipe Cleanout (8" HDPE)	(12.00)	LF	\$ 72.55	(870.60)
CO-2M	Leachate Collection Pipe Cleanout Alpha Couplers	1.00	LS	\$ 2,718.48	2,718.48
CO-2N	Amended Seed Bed	40,423.00	SF	\$ 0.12	4,850.76
CO-2O	Stormwater Stand-pipe Assembly Modifications	1.00	LS	\$ (1,642.30)	(1,642.30)
CO-2P	Culvert Stormwater Piping Re-stocking Fee	1.00	LS	\$ 5,152.51	5,152.51
CO-2Q	15" RCP Culvert	(75.00)	LF	\$ 175.18	(13,138.50)
CO-2R	18" RCP Culvert	(103.00)	LF	\$ 168.39	(17,344.17)
CO-2S	15" RCP Apron	(2.00)	EA	\$ 1,194.31	(2,388.62)
CO-2T	18" RCP Apron	(4.00)	EA	\$ 1,398.49	(5,593.96)
CO-2U	Silt Fence	(65.00)	LF	\$ 4.23	(274.95)
CO-2V	9-inch Straw Wattles	(500.00)	LF	\$ 4.01	(2,005.00)
CO-2W	Temporary Erosion Control Blanket	(250.00)	SY	\$ 4.87	(1,217.50)
CO-2X	Seeding, Mulch, Fertilizer & Disk Anchoring*	40,423.00	SF	\$ 0.11	4,446.53
CO-2Y	4" Gate Valve with Stem Riser and Box	(1.00)	EA	\$ 4,535.12	(4,535.12)
CO-2Z	Demolition and Removals (Existing Site Fencing)	(5.00)	LF	\$ 16.06	(80.30)
CO-2AA	Salvage and Replace Existing Fence	(879.00)	LF	\$ 61.77	(54,295.83)
CO-2AB	Replace Entrance Gate with 30-foot gate w/actuators	1.00	LS	\$ 37,985.50	37,985.50
CO-2AC	Chain-link fence around pond	540.00	LF	\$ 10.00	5,400.00
CO-2AD	Chain-link North of entrance road	129.00	LF	\$ 10.00	1,290.00
CO-2AE	Placement of onsite gravel salvage	(808.32)	TON	\$ 6.91	(5,585.49)
CO-2AF	Placement of City provided gravel material from PW	808.32	TON	\$ 6.91	5,585.49
Change Order Total					\$ 57,605.73

Major work items from the above list warranting additional description include:

- Item CO-2B (Watering for Construction/Dust Control) – Additional water was required to condition the onsite clay materials for use as re-compacted soil barrier layer. The discovery of

unsuitable materials in the excavation area necessitated the need for borrow materials. The additional excavation and material handling exacerbated the water use with added moisture conditioning and dust control activities. The cost for this additional item/work utilizing the contract unit rate is \$53,426.30.

- **Item CO-2G (Common Excavation (CV)(P))** - Excavation operations uncovered unsuitable materials on the northern and eastern slopes of Cell 3B-5 near the end of the common excavation process. Additional waste materials were also discovered on the west side of proposed Cell 3B-5 above the proposed base grades. The volume of unsuitable materials combined with the waste materials exceeded the planned earthwork balance necessitating additional excavation from onsite borrow area(s) to provide a sufficient volume of quality soil materials suitable to construct the re-compacted soil barrier layer. The cost for this additional item/work utilizing the contract unit rate is \$85,200.00.
- **Item CO-2AB (Replace Entrance Gate with 30-foot Gate w/Actuators)** - The original plan identified that the existing entrance gate would be salvaged and re-oriented to open to the south thus mitigating operational hardships with snow accumulation north of the gate. The Contractor identified they had assumed replacement of some components of the gate assembly with their original bid. The various replacements provided an opportunity to maximize the work effort to include a wider entrance gate. The cost for this additional item/work based on negotiated pricing is \$37,985.50.
- Several project deducts were realized on this project as result of either changed site conditions mitigating the need for various planned work effort(s) and/or several value engineered plan changes. The total deducts for this change order amount to a project savings/deduct of \$(205,731.91).

Attachments: Final Pay Application with Change Order #2 summary to resolve the Cell 3B-5 Construction contract.

Change in Contract Price	Change in Contract Times
Original Contract Price:	Original Contract Times:
\$ 3,190,643.30	Substantial Completion: 8/31/24
	Ready for final payment: 11/1/24
Decrease from original Contract to Change Order #1:	No Change from original Contract to Change Order #1
\$ (161,882.19)	Substantial Completion: 8/31/24
	Ready for final payment: 11/1/24
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
\$ 3,028,761.11	Substantial Completion: 8/31/24
	Ready for final payment: 11/1/24
Increase this Change Order:	No Change this Change Order:
\$ 57,605.73	Substantial Completion: 8/31/24
	Ready for final payment: 11/1/24
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders:
\$ 3,086,366.84 (3.3% reduction from original)	Substantial Completion: 8/31/24
	Ready for final payment: 11/1/24

Recommended by Engineer (if required)		Accepted by Contractor	
By:	Dennis McAlpine		Cody Idso
Title:	Project Manager		Project Manager
Date:	9/3/2024		9/3/2024
	Authorized by Owner		Approved by Funding Agency (if applicable)
By:			
Title:			
Date:			

