



PROPOSED CHANGE ORDER REQUEST

Department of Watershed Management

Contract Name: Snapfinger Advanced Wastewater Treatment Facilities Expansion - Phase 2 Date: 9/12/2019
 Contractor: Archer Western Construction, LLC
 Contract Number: 972548 Contract Amendment Number: 8
 Contract Amendment Category: Cost Schedule Scope Deliverables

Original Contract \$ Amount:	Contract Start Date:	Original Contract Days:(TERM)	Original Contract End Date:
\$187,869,380.00	8/5/2015	1669	2/29/2020
NTP Start Date:	Original Performance Days:(TIME)	Original Performance End Date:	
8/26/2015	1640	2/21/2020	

Previous Change Order:	Previous Time Extensions Days:	Previous Changes to \$ Amount:
Change Order No. 1:	0	\$350,797.46
Change Order No. 2:	0	\$599,549.04
Change Order No. 3:	90	\$0.00
Change Order No. 4:	120	\$1,650,000.00
Change Order No. 5:	0	\$465,000.00
Change Order No. 6:	0	\$106,519.11
Change Order No. 7:(pending approval)	0	\$271,526.74
Current Contract Amount:	Current Performance Days:	Current Performance End Date:
\$191,206,253.24	1850	9/18/2020

Description of Proposed Changes: The referenced project is approximately 65% complete. To date a large amount of changes have been necessary to accommodate design changes, varying subsurface utilities and construction issues. In an effort to mitigate cost and delay impacts to the project, one hundred and sixty-two (162) Field Orders have been executed to date. To further assist the Owner with management and corresponding contract adjustments for these types of changes, an additional Owner allowance category titled "Allowance Item No. 12-Unforeseen Conditions, Differing Site Conditions, and Minor Design Changes", in the amount of \$1,000,000 is proposed. The proposed Owner Allowance will be used as authorized and directed by the Owner in writing to reimburse the Contractor for the additional costs due to unforeseen conditions, differing site conditions and **minor design changes**. Several of these types of conditions have been encountered on the project previously and have adversely impacted the construction progress. Some examples of these impacts include 1) Removal and replacement of unsuitable soils. 2) Removal of previously abandoned structures buried below grade. 3) Removal, relocation or abandonment of existing buried utilities interfering with new work. 4) Minor design changes to complete the work. 5) Buried site conditions which differ from what is indicated in the Contract documents.

Justification of Proposed Changes: Based upon the subsurface conditions encountered, it is **anticipated that removal and replacement of approximately 1300 CY of unsuitable soil will be required to complete** the 78" MFE pipeline installation. In addition to removal and replacement of approximately 440 CY of unsuitable soil to construct the foundation for Retaining Wall G, and relocation of unidentified buried utilities surrounding the Influent Pump Station due to differing or unforeseen site conditions. Additionally, it is estimated that approx. \$300,000 of additional electrical and instrumentation work will be required to integrate the new controls with the existing Operations Building SCADA system due to differing site conditions and minor design changes. If approved, the proposed Allowance Item #12 will enable prompt authorization of any additional work required to remedy unforeseen conditions, make necessary work adjustments due to differing site conditions, promptly facilitate minor design changes, and mitigate future claims by the Contractor for reimbursement of equipment delay costs and time extensions.

Proposed Additional Performance Days:	Proposed Cumulative Performance Days:	Proposed Performance End Date:	Proposed Contract End Date:
Proposed Changes to Dollar Amount:	Proposed Cumulative Contract Amount:		Amount Spent To Date as of (8/22/19):
\$1,000,000.00	\$192,206,253.24		\$118,863,543.11

Describe Any Risk Associated With This Change:
None

Effect of NOT Approving This Change: The ability to execute changes approved by Department of Watershed officials due to unforeseen conditions, differing site conditions and minor design changes is necessary to construct Phase 2 of the Snapfinger Advanced Wastewater Treatment Facility. The effect of not providing a mechanism to expeditiously approve these changes will result in delayed construction completion, additional claims from the Contractor for additional costs and time extension(s) due to excusable delay(s). Note - DeKalb County has the option to seek recovery of additional construction costs for design changes due to errors and omissions.

Engineering Manager's Approval:

- Accepted
- Rejected

Signature: F. Keith Lagaite
Digitally signed by F. Keith Lagaite
Date: 2019.09.17 12:56:52 -0400
 Print Name: F. Keith Lagaite
 Date: 09/17/2019

Watershed Director's Approval:

- Accepted
- Rejected

Signature: Reginald Wells
Digitally signed by Reginald Wells
Date: 2019.09.18 15:16:40 -0400
 Print Name: Reginald Wells
 Date: 9/18/2019


Deputy Chief Operating Officer's Approval:

- Accepted
- Rejected

Signature: 
 Print Name: Ted Phinehart
 Date: 9/18/19

Chief Operating Officer's Approval:

- Accepted
- Rejected

Signature: 
 Print Name: Zachary L. Williams
 Date: 10/4/19

Contract Name: Snapfinger Advanced Wastewater Treatment Facilities Expansion - Phase 2

Contractor: Archer Western Construction, LLC

Contract Number: 972548

Contract Amendment Number: 8



August 22, 2019

Mr. Wendell Brown
Senior Construction Manager
DeKalb County Department of Watershed Management
Snapfinger Advanced Wastewater Treatment Facility
4124 Flakes Mill Road
Decatur, GA 30034

**Reference: Contract No. 972548, Archer Western Construction, LLC
Snapfinger Advanced Wastewater Treatment Facilities Exp. Phase 2**

Subject: Proposed Change Order #8

Dear Mr. Brown,

The referenced project is approximately 63% complete. To date a large number of changes have been necessary to accommodate design modifications, varying subsurface utilities and various construction issues. In an effort to mitigate cost and delay impacts to the project, one hundred and fifty-nine (159) Field Orders have been executed to date utilizing the Field Order Allowance, previously funded by a number of cost-saving design changes and deleted Work. To further assist the Owner with management and corresponding contract adjustments for these types of changes, one (1) Proposed Change Order (PCO) is requested for your consideration.

An increase in the Field Order Allowance budget of \$500,000.00, to be used as authorized and directed by the Owner in writing, is requested to reimburse the Contractor for the additional costs due to unforeseen conditions which are not indicated within the Contract documents and mitigate the impact due to associated construction delays. Unfortunately, several unforeseen conditions have been encountered on the Snapfinger project which have negatively impacted the construction progress and required additional work. These unforeseen conditions include removal and replacement of unsuitable soils, removal of previously abandoned structures which have been buried below grade, removal/relocation or abandonment of existing buried utilities which interfere with the new work. To date \$724,522.73 has been reimbursed to the Contractor for unforeseen site conditions. Please see Exhibit A for a summary of previously approved costs for unforeseen site conditions.

Based upon the subsurface conditions encountered, we anticipate removal of approximately 1300 CY of unsuitable soil to complete the 78" MFE pipeline installation, removal of approximately 440 CY of unsuitable soil to construct Retaining Wall G foundation, and relocation of unidentified buried utilities surrounding the Influent Pump Station. At an estimated removal cost of \$283/CY, the requested \$500,000 should



sufficiently cover the predicted unsuitable soils. If approved, the requested Field Order Allowance will enable prompt authorization of any additional work required to remedy the unforeseen condition and mitigate future claims by the Contractor for reimbursement of any equipment delay costs and time extensions due to unforeseen site condition. Please see Exhibit B for photos depicting unforeseen site conditions encountered in June & July of 2019 which continue to impact the Contractor's progress.

Sincerely,

Jillian Jack, P.E.
Senior Project Manager

cc: Christian Dunaway
Mark Hedden

EXHIBIT A

Date	Description	Amount	Change Document
8/5/16	Additional Shotcrete at Soil Nail Wall	\$ 24,726.75	FO-0015
9/21/16	Remove Unsuitable Materials at MBR	\$ 4,103.03	FO-0027
9/21/16	Remove Existing Soil Nail Wall Protrusions	\$ 16,956.90	FO-0030
9/21/16	Additional Shotcrete at Soil Nail Wall #2	\$ 24,726.75	FO-0029
10/18/16	Incomplete Existing Soil Nail	\$ 1,686.32	FO-0039
10/19/16	Additional Shotcrete at Soil Nail Wall #3	\$ 24,726.75	FO-0040
10/19/16	Additional Shotcrete at Soil Nail Wall #4	\$ 24,726.75	FO-0042
1/4/17	Additional Shotcrete at Soil Nail Wall #5	\$ 24,726.75	FO-0045
3/7/17	Additional Shotcrete at Soil Nail Wall #6	\$ 24,726.75	FO-0054
3/7/17	Duct Bank Outside Limits of Disturbance	\$ 38,565.10	FO-0053
8/18/17	Buried 30in FA line	\$ 6,718.45	FO-0093
9/26/17	Existing PSW & POT at Clarifier 12B	\$ 34,169.38	FO-0104
9/26/17	78-inch MFE Conflicts	\$ 53,361.56	FO-0107
11/16/17	24in DRN Utility Conflicts #2	\$ 50,000.00	FO-0116
12/15/17	TSL Additional Work	\$ 7,725.29	FO-0117
11/2/18	Undercut Unsuitables at Admin - Part 1 (8/23/18 - 8/31/18)	\$ 45,118.16	FO-0141
12/18/18	Admin Bldg Pipe Lines Field Routing	\$ 48,875.04	FO-0145
1/15/19	Undercut Unsuitable Material at Cluster #6	\$ 4,057.94	Amendment #1
3/19/19	Undercut Unsuitables at Admin - Part 2 (9/21/18 - 10/9/18)	\$ 59,278.28	FO-0152
Allowance	Gas Main Conflict at Access Road	\$ 25,777.96	N/A
Allowance	Relocation of Utilities at New Access Road	\$ 171,216.35	N/A
TBD	42in RWW1A & 2A Steel Pipe Asbestos Removal	\$ 8,552.47	BOC CO#07
	TOTAL:	\$ 724,522.73	

EXHIBIT B



Unforeseen Conditions - Paving Excavation at Dewatering Bldg



Unforeseen Conditions - Paving Excavation at Dewatering Bldg

EXHIBIT B



Unforeseen Conditions – Duct Bank at Chlorine Building



Unforeseen Conditions – Duct Bank at Chlorine Building

EXHIBIT B



Removal of Asbestos on 42-inch RWW Line



Removal of Asbestos on 42-inch RWW Line

EXHIBIT B



Removal of Unforeseen Abandoned Digester Structure at Dewatering Bldg



Removal of Unforeseen Abandoned Digester Structure at Dewatering Bldg

EXHIBIT B



Stockpile of Unsuitable Soil from 78-inch MFE (Membrane Filter Effluent) Line



Excavation of Unsuitable Soil at 78-inch MFE (Membrane Filter Effluent) Line

EXHIBIT B

