



TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
UXBRIDGE, MASSACHUSETTS 01569

Chairman Dale Bangma
Vice Chair Joe Marchand
Eugene O'Rourke
Dan Hicks
William Kessler

Benn Sherman (Ad hoc)
Jim Legg (Ad hoc)

MEETING MINUTES

MEETING DATE: July 18, 2018
MEETING LOCATION: Lower Town Hall Meeting Room, 21 South Main Street

COMMITTEE MEMBERS PRESENT:

Eugene O'Rourke
Joe Marchand
Dan Hicks

AUG 15 '18 PM 6:30

OTHERS IN ATTENDANCE:

Jim Legg	Wastewater Operations Supervisor
Laurie Toscano	OPM (Weston & Sampson Engineers)
Sandy Tripp	Project Designer (GHD)

Received by
Uxbridge
Town Clerk

I. CALL TO ORDER

It being 5:11 p.m., the meeting being properly posted, duly called and a quorum being present, the Vice Chair, Joe Marchand, called the meeting to order.

II. OLD BUSINESS

None

III. NEW BUSINESS

A. Citizens Comments

None

B. Acceptance of Meeting Minutes (04/19/2018, 05/16/2018)

Passover of the minutes from May 16, 2018.

Motion by Eugene O'Rourke, seconded by Dan Hicks to accept the meeting minutes from April 19, 2018 as written. **Motion carried 3-0-0.**

C. Project Update

Laurie Toscano (OPM) distributed the OPM status report to the Committee. This report includes the month of July.

West River Pump Station (WRPS): Laurie explained the status of the obstruction encountered and the plan to investigate the obstruction was implemented. The contractor identified the obstruction as bedrock. Additional test bores were conducted with the anticipation it could be broken free with a hammer drill. Unfortunately, the contractor was not successful. GHD is working with the contractor on the potential of installing the new station in the same location as the existing station. There will still be some rock encountered and GHD will coordinate this effort with the contractor on the preferred resolution

The contract timeframe is being held until there is an approved plan moving forward. There are no impacts to the Administrative Consent Order (ACO) as this project is not connected to the discharge permit. The pump station will be delivered to the site on July 27, 2018.



Joe Marchand inquired as to the location of the pump station. Sandy Tripp explained the history of the siting of the station and limitations to the site (i.e. Highway Division operations).

Wastewater Treatment Facility (WWTF): Ms. Toscano reviewed the progress outlined in the OPM report. Refer to attached OPM report for specific/notable work activities. Laurie Toscano explained the purpose of the filter building which is the primary removal method for nutrients.

D. Schedule Update

Ms. Toscano updated the committee on the recent draft schedule provided by DOC and is provided in the OPM report in accordance with the requests of the Committee. There are not changes to the completion date of the project. Logic changes were made to some of the scheduled tasks. The critical path shows a negative 4 days which is based on when heat can be restored to the administration building. There is positive float on the ACO related items and we anticipate positive float coming back into the project once more is known about the status of the Administration area.

E. Change Order Update

Laurie Toscano noted the summary section relative to the project contingency management/change order summary. Sandy Tripp provided a more detailed summary of the potential change order (PCO) items. We will continue to work with WM Schultz on the changed conditions. The contingency balance is approximately \$1.9M.

Sandy Tripp explained the changes to the detailed PCO log. We are currently at 85 PCO items under review. These are all associated with a request for information (RFI). The requested were further broken down into 5 categories for review. There are 32 of the 85 that have been negotiated and part of change order 1 and 2. We are finalizing change order 3 and will present it to the committee at the next meeting. The known and projected PCO's total approximately \$536,000, which is about 31% of the 5% contingency amount. Joe Marchand asked about the breakdown of the contingency lines. Both projects are tracked separately but are all part of the total project contingency.

F. Budget Update

Laurie Toscano provided an update on the total project accounting provided by the DPW. Overall, the total project is about 27% expended. The reimbursement summary was updated to show the breakdown of the 2%, 0%, 0% grant monies. Joe Marchand inquired as to the status of the loan closing. Laurie Toscano explained the decision by the BOS that decided not go with the interim borrowing at this time.

IV. MEMBER COMMENTS

None



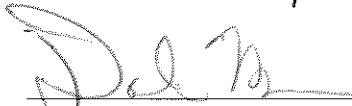
V. **ADJOURNMENT**

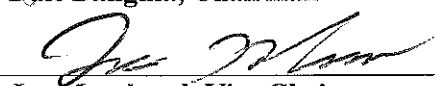
Motion by Eugene O'Rourke, seconded by Dan Hicks to adjourn the meeting at 5:47 p.m. **Motion carried 3-0-0.**

Minutes respectfully submitted by **Benn Sherman.**

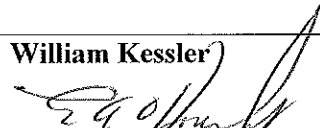
Minutes approved by WWTF Building Committee

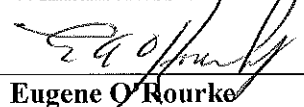
Date Approved: 8/15/2018

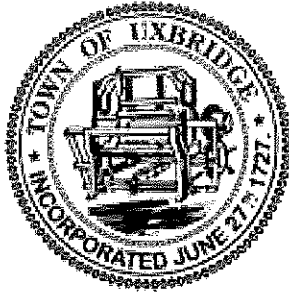

Dale Bangma, Chairman


Joe Marchand, Vice Chairman


Dan Hicks


William Kessler


Eugene O'Rourke



Monthly OPM Project Updates

July 2018

2016-04 West River Pump Station Replacement

Progress:

Last Month – WM Schultz implemented the plan to further investigate the obstruction, which included removing the sheeting, backfilling the partial excavation and drilling four new borings to better identify the extents of the obstruction. Based on this investigation, the obstruction is between 3-feet and 4-feet thick in some locations. A monthly construction meeting was held on June 14th and July 18th. WM Schultz's 7th payment application was processed for \$18,802.40.



This Month – WM Schultz drilled 4-inch holes every 2-feet in a grid pattern over the obstruction area and attempted to hammer-drill the rock and excavate for removal. After two days of this process only a minimal amount of rock was removed, so the contractor has discontinued this process and other options are being analyzed with the engineer.

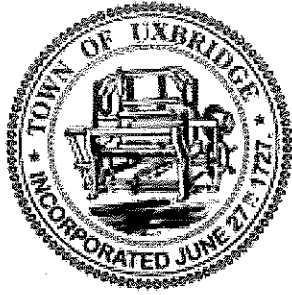
Schedule: Estimated Project Completion Date: November 30, 2018 (to be confirmed after option analysis)

Financial:	GHD Budget:	\$140,000	Invoiced:	\$69,066	% Complete:	49.3%
	Contractor:	\$1,643,549*	Invoiced:	\$186,537	% Complete:	11.3%

*Adjusted for Change Order No. 1 & Change Order No. 2

Submittal Status: Approximately 78% of submittals have been received and have been or are being reviewed.

Action Items: Continue to work with WM Schultz for review options and implement a plan for obstruction removal, continued dewatering and equipment delivery (week of 7/27) and installation.



Current Status: WM Schultz and GHD will develop the options available and discuss with the Town the preferred (cost effective) option to proceed with implementation.

2016-05 Wastewater Treatment Facility BNR & Infrastructure Upgrade

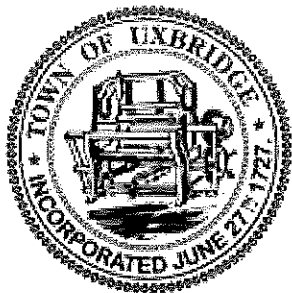
Progress: Last Month – DOC submitted shop drawings, procured equipment/materials, continued secondary electrical duct bank installation, completed CMU walls and installed roof planks for the Septage Receiving area, erecting steel structure of the new Garage, installed roof planks for the Preliminary Treatment building, began launders of new SC #4 and began new equipment installation in SC#1, continued demolition along with HVAC, control panels and ductwork installation in the Process Building, framing for walls and work on new windows in the Admin Building, began tunnel demolition and excavation for Aeration basin expansions, poured baffle walls in Aeration Basin #1, began to erect walls for the new Filter Building. The Contractor's 8th payment application was processed for \$1,768,239.71. A monthly construction meeting was held on June 14, 2018

New Septage Receiving & Garage



AerationBasin #1 & SOE for Tank Expansions

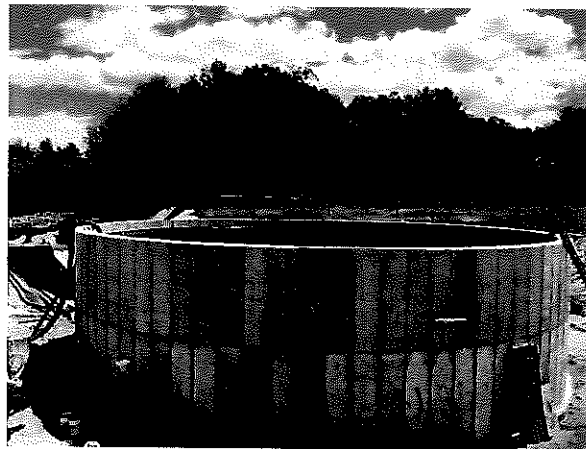




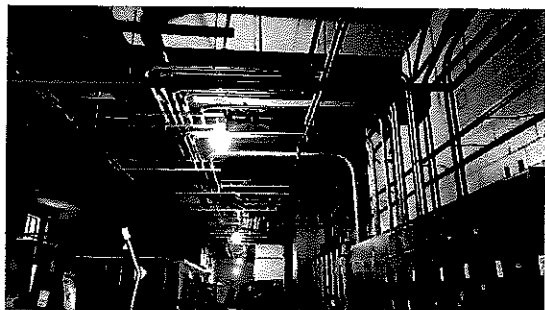
New Filter Building Base-mat & Walls



New Secondary Clarifier #4



New MCC and Conduit in Process Building

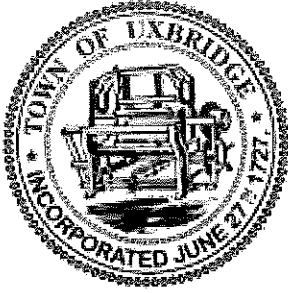


Secondary Electrical Banks



This Month –

DOC submitted shop drawings, procured equipment/materials, continued secondary electrical duct bank installation, installing air vapor barrier, brick veneer and precast sills for the Septage Receiving area and the Preliminary Treatment building, erecting steel structure and perimeter brick of the new Garage, backfill of tank walls and rebar/forming of launders of new SC #4, tank repairs and new equipment installation for SC #1, demolition activities continue along with HVAC, gas piping, control panels and ductwork installation in the Process Building, framing for walls and install of new windows in the Admin Building, complete excavation, prepare subgrade and form/reinforce and install basemat for Aeration basin expansions, prepare floor and install new equipment in Aeration Basin #1, continue to pour walls for the new Filter Building and then proceed with the base-mat installation for the new Chemical Building, begin demolition and rough electrical in Blower Building.



The Contractor's 9th payment application was processed for \$1,557,740.33. A monthly construction meeting was held on July 12, 2018 and the next will be held on, August 9, 2018.

GHD continues to review and comment on submittals received, reviews and recommends change orders and continues to provide full-time construction inspection.

New Garage



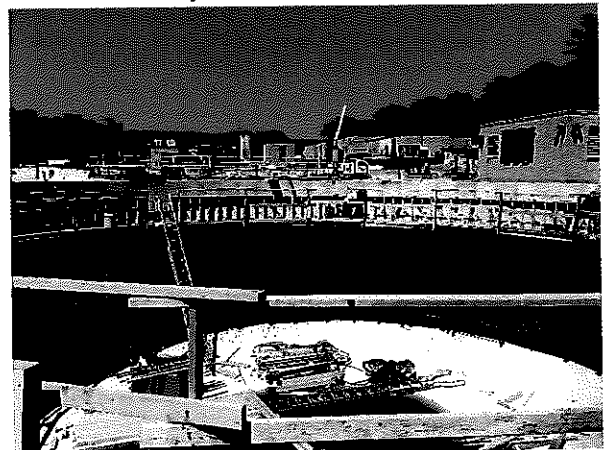
Aeration Basin Excavation for Tank Expansions

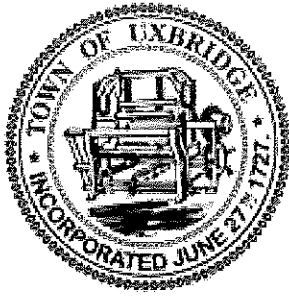


New Filter Building Wall Forms

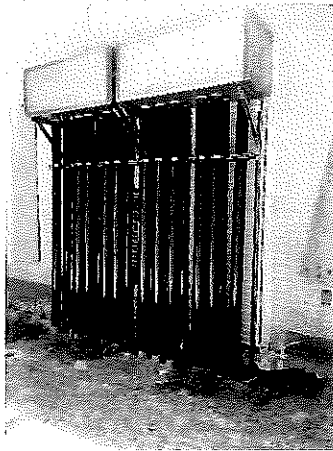


New Secondary Clarifier #4 Launder Forming





New Conduit from Ductbank GG to Process Building



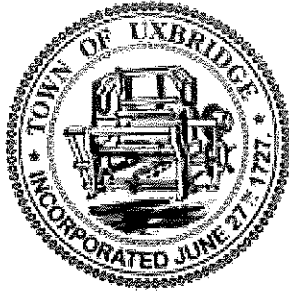
Plumbing, Electrical & HVAC in Admin Building



Schedule: Estimated Project Completion Date: February 21, 2020

Key Milestone Completion Dates: based on DOC 07/01/18 Progress Schedule

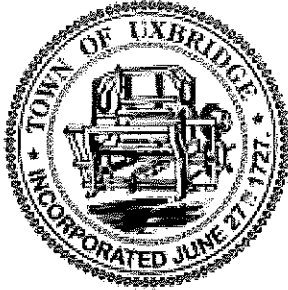
Activity	Start by Date in Progress Schedule	Start Date in Baseline Schedule	Finish by Date	Early (E), Late (L) or Actual (A) Date *
Preliminary Treatment Building:	09/25/2017A	10/02/2017	06/12/2019	E
Septage Receiving Building:	10/03/2017A	09/25/2017	01/08/2019	E
Sludge Thickener No. 2:	10/16/2017A	11/09/2017	05/14/2019	E
Site Electrical:	10/17/2017A	10/17/2017	05/07/2019	E
Secondary Clarifier No. 4	10/31/2017A	08/30/2017	03/29/2019	E
Yard Piping	11/28/2017A	07/11/2018	11/13/2019	E
Process/Admin Building with Finishes	12/19/2017A	02/28/2018	12/25/2019	E
Process Bldg. Blower Room:	01/23/2018A	02/12/2019	11/01/2019	E
Filter Building	02/07/2018A	07/20/2018	10/7/2019	E
Garage	03/12/2018A	04/16/2019	02/27/2019	E



Activity	Start by Date in Progress Schedule	Start Date in Baseline Schedule	Finish by Date	Early (E), Late (L) or Actual (A) Date *
Chemical Building	3/14/2018A	03/23/2018	09/24/2019	E
Sludge Pumping Station	03/20/2018A	04/15/2019	07/05/2019	L
Aeration Basins Nos. 1-3 Extensions	03/27/2018A	02/09/2018	10/31/2019	E
Main Pump Station	04/25/2018A	04/26/2019	06/28/2019	E
Aeration Basin Distribution Box	08/30/2018	07/02/2018	12/21/2018	L
UV & Post Aeration	12/18/2018	12/21/2018	11/22/2019	L
Blower Building	01/11/2019	08/15/2018	12/20/2019	L
Utility Tunnel	01/24/2019	11/28/2018	10/14/2019	L
Primary Settling Basins	03/26/2019	02/15/2019	11/22/2019	L
Primary Settling D-Box	03/26/2019	02/15/2019	05/16/2019	L
Secondary Clarifier Nos. 1-3 Upgrade	05/21/2019	10/09/2018	11/22/2019	L
Utility Tunnel Access No. 2	06/26/2019	06/28/2019	10/14/2019	L
Sludge Thickener #1	07/15/2019	07/15/2019	11/05/2019	L
Sludge Holding Tank:	11/06/2019	11/06/2019	11/22/2019	L
Testing & Startup	11/24/2019	11/23/2019	02/21/2020	L
* Two sets of dates are provided in the Baseline Schedule by DOC, Early Start/Finish and Late Start/Finish. For work items that have commenced (shown in Bold), the Early Start/Finish Dates are included above and for work items that have yet to commence, the Late Start/Finish Dates are included above for conservatism.				

Financial: OPM Budget: \$500,000 Invoiced: \$ 161,894 % Complete: 32.3%
 GHD Budget: \$4,150,000 Invoiced: \$1,342,466 % Complete: 32.3%
 DOC Budget: \$34,791,259** Invoiced: \$8,148,392 % Complete: 23.4%

**Adjusted for Change Order No. 1 & Change Order No. 2 (DOC)



Submittal Status: Approximately 78% of submittals have been received and have been or are being reviewed.

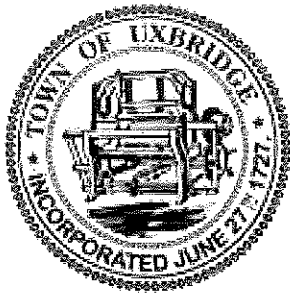
Action Items: Continue to work with DOC to track strategies that have been implemented to restore float in the schedule (currently at -4 days overall (Admin Bldg), but positive for the various process paths) and continue construction progress at the increased rate. Continue to process submittals, process payment requisitions and evaluate potential change orders. The next SRF reimbursement request package will be submitted to DEP this week.

Current Status: DOC will continue submittals, procurement of equipment and materials and continue to resume an increased labor presence on-site, especially now that more work areas are available for concurrent work activities.

2016-04 & 2016-05 Project Contingency Management/ Change Order Summary

Based on discussions at prior Building Committee meetings, below is a summary for the contingency on the combined projects (WWTF & WR PS), amounts that have been allocated to Approved Change Orders and amounts that are likely to be considered in the future for identified Potential Change Order items.

Project Item	Item Amount	Cumulative Total
Project Original Contingency ^a		\$2,300,000.00
WR PS Change Order No. 1 (8/9/17)	\$78,900.00	\$2,221,100.00
WR PS Change Order No. 2 (8/9/17)	\$5,213.00	\$2,215,887.00
WR PS Potential Change Orders ^b	Not Available	
WWTF Change Order No.1 (3/6/18)	\$60,283.00	\$2,155,604.00
WWTF Change Order No. 2 (6/21/18)	\$126,050.00	\$2,029,554.00
WWTF Potential Change Orders ^b	\$356,000.00	
Utility Work (Eversource)	\$122,323.92	\$1,907,230.08



^a Contingency includes original budget (\$2,050,000) plus additional services budget in GHD contract (\$250,000).

^b Potential Change Orders (PCOs) are in various stages of review and negotiation. This value is provided based on estimated potential costs identified to date and will be updated monthly.



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS
147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 • Fax 508-278-3179

Benn Sherman, P.E.
Director

WWTF & WEST RIVER PUMP STATION BUDGET & REIMBURSEMENT SUMMARY

PURPOSE: WWTF & WRPS Construction¹
SOURCE: SRF 0%, SRF 2%, Local Borrowing

TM DATE: 4/7/2016 (Article 1)

TM APPROPRIATION: \$44,800,000.00

TOTAL AUTHORIZATION: \$44,800,000.00

SRF Portion Eligible for 0% Interest Rate \$ 29,200,000.00

SRF Portion Eligible for 2% Interest Rate \$ 13,600,000.00

Total SRF Approval \$ 42,800,000.00

ACCOUNT NUMBER	CONTRACTS	APPROVED	ORIGINAL BUDGET	CONTRACT/PO AMOUNT	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT	EXPENSE TO DATE	BALANCE REMAINING	% CMPLT	STATUS
41-440-2050-4106PW15-0000-0-0	WRPS RETAINAGE ¹	06/26/17					\$ 9,817.75			
41-440-2050-4106PW16-0000-0-0	WWTF RETAINAGE ¹	06/26/17					\$ 428,862.78			
41-440-5303-4106PW16-0000-0-0	LEGAL ¹	07/01/17	\$ 45,638.00	\$ 45,638.00	-	\$ 45,638.00	\$ -	\$ 45,638.00	0.0%	Active
41-440-5880-4106PW16-0000-0-0	WWTF FINAL DESIGN ²	07/01/16	\$ 1,500,000.00	\$ 1,500,000.00	-	\$ 1,500,000.00	\$ 1,500,000.00	\$ -	100.0%	Closed
41-440-5892-4106PW16-0000-0-0	OWNER'S PROJECT MANAGER ²	02/07/17	\$ 500,000.00	\$ 500,000.00	-	\$ 500,000.00	\$ 161,894.92	\$ 338,105.08	32.4%	Active
41-440-5893-4106PW16-0000-0-0	WWTF CPS (GHD) ^{1,3}	11/09/16	\$ 4,400,000.00	\$ 4,150,000.00	-	\$ 4,150,000.00	\$ 1,342,466.28	\$ 2,807,533.72	32.3%	Active
41-440-5893-4106PW16-9100-0-0	WRPS CPS (GHD) ¹	11/09/16	\$ 140,000.00	\$ 140,000.00	-	\$ 140,000.00	\$ 69,065.95	\$ 70,934.05	49.3%	Active
41-440-5894-4106PW16-0000-0-0	WWTF CONSTRUCTION (DOC) ¹	06/26/17	\$ 34,604,926.00	\$ 34,604,926.00	\$ 186,333.00	\$ 34,791,259.00	\$ 8,148,392.85	\$ 26,642,866.15	23.5%	Active
41-440-5894-4106PW16-9100-0-0	WRPS CONSTRUCTION (WMS) ¹	06/26/17	\$ 1,559,436.00	\$ 1,559,436.00	\$ 84,113.00	\$ 1,643,549.00	\$ 186,537.25	\$ 1,457,011.75	12.0%	Active
41-440-5897-4106PW16-0000-0-0	CONTINGENCY ³	07/01/17	\$ 2,050,000.00	\$ 2,300,000.00	\$ (270,446.00)	\$ 2,029,554.00	\$ 122,323.92	\$ 1,907,230.08	5.3%	Active
TOTAL COMMITTED			\$ 44,800,000.00	\$ 44,800,000.00	\$ -	\$ 44,800,000.00	\$ 11,969,361.70	\$ 33,269,318.83	26.7%	

FUNDS AVAILABLE

- ¹ Included in the SRF funding request and authorization
² Included in the independent borrowing for final design and OPM services
³ GHD additional services for WWTF were put into the contingency line

REIMBURSEMENT SUMMARY

ACCOUNT NUMBER	REIMBURSIBLE ITEMS	ELIGIBLE COSTS ⁴	CONTRACTED AMOUNT	2% Loan 16-26	0% Loan 16-26A	0% Fed. Grant (26B)	TOTAL SUBMITTED	TOTAL REIMBURSED
41-440-4680-4106PW16	WRPS CONSTRUCTION (WMS)	\$ 1,637,408.00	\$ 1,643,549.00	\$ 167,734.85	\$ -	\$ -	\$ 167,734.85	\$ 167,735.00
41-440-4680-4106PW16	WWTF CONSTRUCTION (DOC)	\$ 36,335,172.00	\$ 34,791,259.00	\$ 1,845,382.67	\$ 4,745,269.83	\$ -	\$ 6,590,652.50	\$ 6,336,393.00
41-440-4680-4106PW16	WWTF CPS (GHD)	\$ 4,400,000.00	\$ 4,150,000.00	\$ -	\$ -	\$ 1,211,360.15	\$ 1,211,360.15	\$ 1,211,360.00
41-440-4680-4106PW16	WRPS CPS (GHD)	\$ 140,000.00	\$ 140,000.00	\$ 63,324.30	\$ -	\$ -	\$ 63,324.30	\$ 63,324.00
41-440-4680-4106PW16	UTILITY WORK	\$ 287,420.00	\$ 287,420.00	\$ 122,324.92	\$ -	\$ -	\$ 122,324.92	\$ 122,325.00
TOTAL \$ 42,800,000.00		\$ 41,012,228.00	\$ 41,012,228.00	\$ 2,198,766.74	\$ 4,745,269.83	\$ 1,211,360.15	\$ 8,155,996.72	\$ 7,901,137.00

⁴ MassDEP's revised Project Approval Certificate dated 6/1/2017

**Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Change Management**

General Contractor: Daniel O'Connell's Sons, Inc.

Contract No. 2016-05; GHD Job No. 8618922A

Periodic Update: June 2018

Construction Budget	\$	36,335,172
Initial Construction Contract	\$	34,604,926
Approved Change Orders*	\$	276,988
Unallocated Budget	\$	1,453,258

Construction Progress

Days Since June 26, 2017 Notice to Proceed	369	Construction Contract Value, Including Change Orders	\$ 34,881,914.00
Contract Duration	970	Amount Earned to Date	\$ 8,577,255.63
Days Remaining	601	Percent of Value Completed	25%
Percent of Time Expended	38%		

Potential Change Orders (PCOs) vs Construction Budget

Requests for Information from DOC	202	No. of PCOs	85
Requests for Information from GHD	77	No. PCOs in Negotiation	53
Approved Change Orders*	3	Potential Change Amount	\$ 259,000
Percent of Initial Construction Contract	0.8%	Percent of Initial Contract	0.7%

Contingency Management

Contingency - Percent of Initial Contract	5%	Contingency Amount	\$ 1,730,246
Percent of Contingency in Change Orders	16.0%	Change Orders to Date	\$ 276,988
Percent of Contingency in Potential Changes	15%	Potential Changes	\$ 259,000
Percent of Contingency Identified	31%	Total Changes Identified	\$ 536,000
Percent of Contingency Remaining	69%	Remaining Contingency	\$ 1,194,246

* Includes Change Order No. 3, which is being finalized before submittal to Town

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log & Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A

July 18, 2018

Open
Agreed Change
Not Approved / Closed
No Cost Change
Not Approved / Dispute
Void or Superseded

Contract Value: \$34,604,926.00
Contingency: \$1,730,246.30
Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	GHD Rough Estimate*	PCO Reasoning				Error	Negotiated Value	Net Available	Net Available as %
				Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added				
				Beginning Balance						\$1,730,246.30	
1	1001B	Transformer access road	\$ 15,000	\$ 15,000						\$1,730,246.30	100.0%
2	1002	Relocate gas line	\$ 2,220	\$ 2,220			\$ 2,220		\$2,220.00	\$1,728,026.30	99.9%
3	1003A	Electrical modifications	\$ 13,000	\$ 13,000	\$ 13,000					\$1,728,026.30	99.9%
4	1004	Preliminary treatment cleanout	\$ 743	\$ 743	\$ 743				\$743.00	\$1,727,283.30	99.8%
5	1005	Septage pipe roof penetration	\$ 3,000	\$ 3,000			\$ 3,000		\$3,000.00	\$1,724,283.30	99.7%
6	FO11	Drill and grout dowels at PT bldg	\$ 359	\$ 359			\$ 359		\$359.00	\$1,723,924.30	99.6%
7	1007	Potable water well pump power and control	\$ 12,404	\$ 12,404	\$ 12,404				\$12,404.00	\$1,711,520.30	98.9%
8	1006	Core FDs in PT bldg	\$ 1,966	\$ 1,966		\$ 1,966			\$1,966.00	\$1,709,554.30	98.8%
9	1008	AIS compliant pinch valve	\$ 4,889	\$ 4,889		\$ 4,889			\$4,889.00	\$1,704,665.30	98.5%
10	FO12A	Relocate block retaining wall	\$ 20,000	\$ 20,000	\$ 20,000					\$1,704,665.30	98.5%
11	9	Pipe vents in septage bldg	\$ 7,440	\$ 7,440		\$ 7,440			\$7,440.00	\$1,697,225.30	98.1%
12	8	Septage bldg main cleanout	\$ 750	\$ 750	\$ 750					\$1,697,225.30	98.1%
13	1009	Replace valves at clarifier 4	\$ 20,394	\$ 20,394			\$ 20,394		\$20,394.00	\$1,676,831.30	96.9%
14	46	Changes to EMH13 and electrical room	\$ 65,500	\$ 65,500			\$ 65,500		\$65,500.00	\$1,611,331.30	93.1%
15	35	Trench drains in garage	\$ -	\$ -					\$0.00	\$1,611,331.30	93.1%
15A	35	Trench drains in garage	\$ 6,636	\$ 6,636		\$ 6,636			\$6,636.00	\$1,604,695.30	92.7%
15B	35	Trench drains in garage (vents)	\$ (2,000)	\$ (2,000)			\$ (2,000)			\$1,604,695.30	92.7%
16	1011	Primary scum level sensor	\$ 1,500	\$ 1,500			\$ 1,500			\$1,604,695.30	92.7%
17	1012	Main PS bypass changes	\$ -	\$ -	\$ -					\$1,604,695.30	92.7%
18		Weather impacts	\$ 4,000	\$ 4,000			\$ 4,000			\$1,604,695.30	92.7%
19	1015	Gravity Thickener 2 concrete fill	\$ -	\$ -					\$0.00	\$1,604,695.30	92.7%
20	53	PRB-MOD 7 & 15	\$ 504	\$ 504					\$504.00	\$1,604,191.30	92.7%
21	43	Core and Link Seal	\$ 584	\$ 584		\$ 584			\$584.00	\$1,603,607.30	92.7%
22	1014	Demolish suspended ceiling	\$ 584	\$ 584	\$ 584						

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
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Contract No. 2016-05; GHD Job No. 8618922A

July 18, 2018

Open
Agreed Change
Not Approved / Closed
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Void or Superseded

Contract Value: \$34,604,926.00
Contingency: \$1,730,246.30
Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	GHD Rough Estimate*	PCO Reasoning				Negotiated Value	Net Available	Net Available as %
				Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
23	46X	Reconfiguration of ductbank G-G- MOVED to PCO 14	\$ -					\$0.00	\$1,603,607.30	92.7%
24	1019	Cleanouts in chemical room	\$ 3,050	\$ 3,050				\$3,050.00	\$1,600,557.30	92.5%
25	1018	Firewall in chemical room	\$ (1,000)	\$ (1,000)					\$1,600,557.30	92.5%
26		Buried fire alarm conduit in chemical room	\$ 4,240	\$ 4,240				\$4,240.00	\$1,596,317.30	92.3%
27	1021	Additional rebar at secondary clarifier 4	\$ 1,500		\$ 1,500				\$1,596,317.30	92.3%
28	64	GPR existing concrete	\$ 35,000	\$ 35,000				\$35,000.00	\$1,561,317.30	90.2%
29	1017	Relocate MVV-105	\$ 9,444	\$ 9,444				\$9,444.00	\$1,551,873.30	89.7%
30	1022	Manhole covers	\$ 1,500	\$ 1,500					\$1,551,873.30	89.7%
31	74	Chemical room eyewash and water supply	\$ -				\$ -		\$1,551,873.30	89.7%
32	1025	Administration building changes	\$ -				\$ -		\$1,551,873.30	89.7%
33	1020	Gravity thickener supports	\$ 2,500	\$ 2,500					\$1,551,873.30	89.7%
34	38	Remove existing 8-inch scum line @ Sec Clar 4	\$ -	\$ -					\$1,551,873.30	89.7%
35	1026	Chemical Room Floor	\$ 15,000	\$ 15,000					\$1,551,873.30	89.7%
36	1027	Filter bldg gate and valves	\$ 30,000				\$ 30,000		\$1,551,873.30	89.7%
37	1029	Storage Room ADB-129 window	\$ 763				\$ 763	\$763.00	\$1,551,110.30	89.6%
38	1030	Sludge pumping station roof	\$ 25,270	\$ 25,270				\$25,270.00	\$1,525,840.30	88.2%
39	1031	Garage bathroom	\$ -					\$0.00	\$1,525,840.30	88.2%
40	1032	Admin/process building windows	\$ 19,260			\$ 19,260		\$19,260.00	\$1,506,580.30	87.1%
41	1035	Delete blower discharge valves	\$ (5,000)				\$ (5,000)		\$1,506,580.30	87.1%
42	105	ADB pull stations	\$ 1,770	\$ 1,770				\$1,770.00	\$1,504,810.30	87.0%
43	83	Details for lifting eyes	\$ (9,515)	\$ (9,515)			\$ (9,515)	(\$9,515.00)	\$1,514,325.30	87.5%
44	75R	Water supply size	\$ -						\$1,514,325.30	87.5%
45	76R	Emergency eyewash and shower	\$ 8,000	\$ 8,000					\$1,514,325.30	87.5%
46	79	Flow alarms	\$ 1,000		\$ 1,000				\$1,514,325.30	87.5%

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PCO No.	Response to RFI	Work Item Descriptions	PCO Reasoning					Negotiated Value	Net Available	Net Available as %
			GHD Rough Estimate*	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
47	1037	Plant water system gate valves	\$ 20,000			\$ 20,000			\$1,514,325.30	87.5%
48	1036	Gravity thickener guard rails	\$ (12,785)				\$ (12,785)	(\$12,785.00)	\$1,527,110.30	88.3%
49	82R1	Louver openings	\$ 10,000				\$ 10,000		\$1,527,110.30	88.3%
50	1039	Process Admin Bldg duct modifications	\$ (878)				\$ (878)	(\$878.00)	\$1,527,988.30	88.3%
51	92	W05 window type	\$ -		\$ -				\$1,527,988.30	88.3%
52	1040	Glycol storage	\$ 1,150		\$ 1,150			\$1,150.00	\$1,526,838.30	88.2%
53	1038	Process Bldg. HVAC (west)	\$ 24,470	\$ 24,470				\$24,470.00	\$1,502,368.30	86.8%
54	93	Roof Openings - Admin. Bldg.	\$ 10,000				\$ 10,000		\$1,502,368.30	86.8%
55	1046	Water line - Process Bldg.	\$ 7,500		\$ 7,500				\$1,502,368.30	86.8%
56	1049	Slide Gates	\$ 6,000	\$ 6,000					\$1,502,368.30	86.8%
57	1047	Process Bldg. Roof Openings	\$ 25,130	\$ 25,130				\$25,130.00	\$1,477,238.30	85.4%
58	109	Toilet Carrier	\$ 20,000	\$ 20,000					\$1,477,238.30	85.4%
59	117	Chemical Building Gr.	\$ 2,500				\$ 2,500		\$1,477,238.30	85.4%
60	2C	Vents for OWS	\$ -	\$ -					\$1,477,238.30	85.4%
61	1003A	Utility Coordination	\$ 13,980	\$ 13,980				\$13,980.00	\$1,463,258.30	84.6%
62	1050	Filter Bldg. Clean Out	\$ (5,000)				\$ (5,000)		\$1,463,258.30	84.6%
63	WCD1	Boiler Abatement	\$ 10,000	\$ 10,000				\$10,000.00	\$1,453,258.30	84.0%
64	1052	Vacuum Pump	\$ 2,500		\$ 2,500				\$1,453,258.30	84.0%
65	1054	Restroom Floor Drains	\$ 7,000	\$ 7,000					\$1,453,258.30	84.0%
66	146/147	Roof Drains	\$ 20,000	\$ 20,000					\$1,453,258.30	84.0%
67		Lead abatement at ceilings	\$ -	\$ -					\$1,453,258.30	84.0%
68	1058	Lab Plumbing Changes	\$ 2,000				\$ 2,000		\$1,453,258.30	84.0%
69	1059	IT Network Rack	\$ (1,000)				\$ (1,000)		\$1,453,258.30	84.0%
70	128	Bubblers in Admin bldg	\$ (2,000)				\$ (2,000)		\$1,453,258.30	84.0%

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July 18, 2018

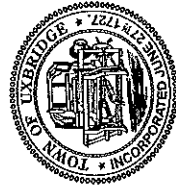
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PCO No.	Response to RFI	Work Item Descriptions	GHD Rough Estimate*	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added	Error	Negotiated Value	Net Available	Net Available as %
71	1057	Aeration Basin 1 concrete repair	\$ 1,000	\$ 1,000						\$1,453,258.30	84.0%
72	1053	Chem PW	\$ 2,000		\$ 2,000					\$1,453,258.30	84.0%
73	89	Reloc. Plant Water in Process Building	\$ 3,500	\$ 3,500							
74	169	Recirc Line Chem Room Eyewash	\$ -	\$ -							
75	144 & 154	Chem & Filter Bldg. Plumbing Questions	\$ 15,000	\$ 15,000							
76	125	Chem and Filt Bldg Electrical Questions	\$ 7,000		\$ 7,000						
77											
78	173	Existing Topping Slab Clarifiers 1,2, & 3	\$ (20,000)				\$ (20,000)				
79	162	South Elevation Downspout at Filter Building	\$ 1,000		\$ 1,000						
80	1067		\$ -								
81	1063	Existing Secondary Clarifiers Remedial Work	\$ 4,000	\$ 4,000							
82	1064	Security/Site Fence Location	\$ -			\$ -					
83	165	Chemical Day Tank Nameplate Info.	\$ 200			\$ 200					
84	157	Vent. Plumbing Conflict	\$ 1,000	\$ 1,000							
85	1066	CMU Brick Support Admin Windows	\$ 2,000		\$ 2,000						
86											
87									\$276,988.00		
		TOTAL									
UNNUMBERED											
1023		Septage unloading pad CB and drain	\$ 1,000				\$ 1,000				
1024		Slide gate FTB-SG-03	\$ 10,000	\$ 10,000							
1061		Process/Admin Bldg HVAC	\$ 6,000		\$ 6,000						
1062		Secondary scum line relocation	\$ 6,000	\$ 6,000							
1071		Chem Room concrete fill demo	\$ 4,000		\$ 4,000						
1072		Water heater piping modifications	\$ 5,000				\$ 5,000				
1074		Water heater schedule	\$ (500)				\$ (500)				
1075		Deletion of Walkway at Septage Unit	\$ (3,000)				\$ (3,000)				

July 18, 2018

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TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
UXBRIDGE, MASSACHUSETTS 01569

MEETING SIGN IN SHEET

WEDNESDAY, JULY 18, 2018, 5:00 pm

LOWER TOWN HALL, 21 SOUTH MAIN STREET, UXBRIDGE, MA

INITIAL	NAME	AFFILIATION	ADDRESS	PHONE	EMAIL
	Dale Bangma	WWTF Building Committee			
<i>DM</i>	Joe Marchand	WWTF Building Committee			
<i>EO</i>	Eugene O'Rourke	WWTF Building Committee			
<i>DH</i>	Dan Hicks	WWTF Building Committee			
	William Kessler	WWTF Building Committee			
	Benn Sherman	Uxbridge DPW			bsherman@uxbridge-ma.gov
	Paul Hutnak	Uxbridge DPW			phutnak@uxbridge-ma.gov
<i>JK</i>	Jim Legg	Uxbridge DPW-Wastewater			jlegg@uxbridge-ma.gov
<i>AE</i>	Angie Ellison	Town Manager			aellison@uxbridge-ma.gov
<i>ST</i>	Sandy Tripp	GHD (Designer)			sandy.tripp@ghd.com
	Marc Drainville	GHD (Designer)			marc.drainville@ghd.com
<i>LT</i>	Laurie Toscano	Weston & Sampson (OPM)			ltoscano@wseinc.com
	Frank Woodfall	Keville Enterprises			fwoodfall@keville.com