



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: September 19, 2018
MEETING LOCATION: Lower Town Hall Meeting Room, 21 South Main Street

DEC 19 '18 PM 6:47

COMMITTEE MEMBERS PRESENT:

Dale Bangma
Eugene O'Rourke
Joe Marchand
Dan Hicks

Received by
Uxbridge
Town Clerk

OTHERS IN ATTENDANCE:

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

I. CALL TO ORDER

It being 5:00 p.m., the meeting being properly posted, duly called and a quorum being present, the Chair, Dale Bangma, called the meeting to order.

II. OLD BUSINESS

None

III. NEW BUSINESS

A. Citizens Comments

None

B. Acceptance of Meeting Minutes

None

C. Project Update

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

West River Pump Station (WRPS): Laurie explained the status of the pump station. The project team received the outstanding information just before the meeting and will be reviewing this week. A meeting with the contractor will be scheduled to discuss the review. The pump station and generator were previously delivered to the site. W. Schultz did submit a pay estimate for the stored materials. The project is at approximately 30% complete.

Joe Marchand asked if the contractor is submitting a claim for additional work and compensation for time lost. Sandy Tripp explained what is being reviewed and what is considered a change condition. Until a further review is conducted, we don't have a feel for the extent of the change. There is a potential for a significant change pending the review.

Wastewater Treatment Facility (WWTF): Ms. Toscano reviewed the progress outlined in the OPM report. Refer to attached OPM report for specific/notable work activities. There were minor changes to the format of the report for clarity.



Joe Marchand asked about the septage receiving building. Sandy Tripp explained the easterly end will have translucent panels for additional lighting and the westerly end of the building will have the discharge connections for the haulers. The overhead door will be for access and maintenance purposes.

The contractor and engineer continue to submit and review submittals associated with the current work.

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. The schedule still reflects a negative float for the administrative/process building due to HVAC components. There are many process areas available for work and the contractor is utilizing these areas to gain back project float. Sandy Tripp explained the key element from this year was to get the underground work completed this calendar year prior to winter. This is critical so there will be ample work zones within the buildings so as not to be impacted by the weather.

E. Change Order Update

Laurie Toscano noted the summary section relative to the project contingency management/change order summary.

We are in receipt of a change order for the WRPS for additional exploration work in the amount of \$27,500 and anticipate additional submissions once the additional work is completed.

On the WWTF, Change Order No. 4 was forwarded to the committee for review. CO4 contains a total of 14 items, of which, 12 are cost additions and 2 are credits. Sandy Tripp discussed the change order log overall. Ms. Tripp provided a detailed explanation of each Change Order item.

Motion by Eugene O'Rourke, seconded by Dan Hicks to recommend approval of Change Order No. 4 in the amount of \$56,443.00. **Motion carried 4-0-0.**

Ms. Toscano further reviewed the contingency management with the Committee. She highlighted there are additional monies logged into the report to account for future "potential change orders" which are under consideration.

F. Budget Update

Laurie Toscano provided an update on the total project accounting provided by the DPW. One change is the Change Order number 3 which was recently approved. Overall, the total project is about 38% expended with the WWTF Construction at 36% and the WRPS at 31%. The reimbursement summary is updated to show the breakdown of the 2%, 0%, 0% grant monies. Reimbursement requests are submitted shortly following the approval of the pay estimates and WPAT continue to process and reimburse the Town quickly.

IV. MEMBER COMMENTS

Mr. Bangma asked if there was a plan for the WWTF contractor to gain back the negative float in the project. Sandy Tripp explained the contractor is evaluating the active work zones and schedule logic. We anticipate the current level of work and future updates to the schedule will gain back lost float.



V. ADJOURNMENT

Motion by Eugene O'Rourke, seconded by Dan Hicks to adjourn the meeting at 5:48 p.m. **Motion carried 4-0-0.**

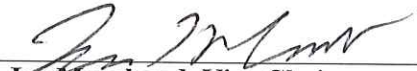
Minutes respectfully submitted by Benn Sherman.

Minutes approved by WWTF Building Committee

Date Approved: 12/19/2018



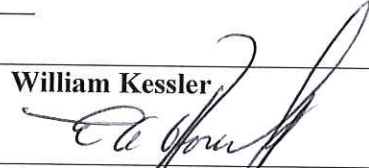
Dale Bangma, Chairman



Joe Marchand, Vice Chairman



Dan Hicks


William Kessler


Eugene O'Rourke



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: 4/2/2016 (Article 1)
TM APPROPRIATION: \$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

TOTAL AUTHORIZATION: \$44,800,000.00

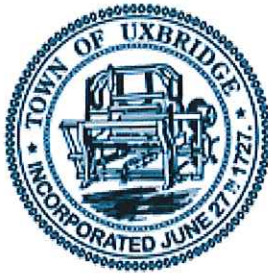
ACCOUNT NUMBER	CONTRACTS	APPROVED	ORIGINAL BUDGET	CONTRACT/ PO AMOUNT	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT	EXPENSE TO DATE	BALANCE REMAINING	% CMPLT	STATUS
41-440-2050-4106PW15-0000-0-0	WRPS RETAINAGE ¹	06/26/17					\$ 25,507.85			
41-440-2050-4106PW16-0000-0-0	WWTF RETAINAGE ¹	06/26/17					\$ 653,007.17			
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	\$ 172,398.92	\$ 327,601.08	34.5%	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	\$ 1,555,980.24	\$ 2,594,019.76	37.5%	Active
41-440-5893-4106PW16-9100-0-0	WRPS CPS (GHD) ¹	11/09/16	\$ 140,000.00	\$ 140,000.00	-	\$ 140,000.00	\$ 79,716.22	\$ 60,283.78	56.9%	Active
41-440-5894-4106PW16-0000-0-0	WWTF CONSTRUCTION (DOC) ¹	06/26/17	\$ 34,604,926.00	\$ 34,604,926.00	\$ 276,988.00	\$ 34,881,914.00	\$ 12,407,136.32	\$ 22,474,777.68	35.9%	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	\$ 484,649.15	\$ 1,158,899.85	31.1%	Active
41-440-5897-4106PW16-0000-0-0	CONTINGENCY ^{2,3}	07/01/17	\$ 2,050,000.00	\$ 2,300,000.00	\$ (361,101.00)	\$ 1,938,899.00	\$ 122,323.92	\$ 1,816,575.08	21.0%	Active
TOTAL COMMITTED			\$ 44,800,000.00	\$ 44,800,000.00	\$ -	\$ 44,800,000.00	\$ 17,000,719.79	\$ 27,799,280.21	37.9%	

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	UNREPAID AMOUNT	L% Loan 16-26	U% Loan 16-26A	U% Fed. Grant (26B)	TOTAL SUBMITTED	TOTAL REIMBURSED	
41-440-4680-4106PW16	WRPS CONSTRUCTION (WMS)	\$ 1,637,408.00	\$ 1,643,549.00	\$ 186,537.25	\$ -	\$ -	\$ 186,537.25	\$ 167,735.00	
41-440-4680-4106PW16	WWTF CONSTRUCTION (DOC)	\$ 36,335,172.00	\$ 34,881,914.00	\$ 2,281,549.95	\$ 5,866,842.88	\$ -	\$ 8,148,392.83	\$ 6,590,652.00	
41-440-4680-4106PW16	WWTF CPS (GHD)	\$ 4,400,000.00	\$ 4,150,000.00	\$ -	\$ -	\$ 1,342,466.28	\$ 1,342,466.28	\$ 1,211,360.00	
41-440-4680-4106PW16	WRPS CPS (GHD)	\$ 140,000.00	\$ 140,000.00	\$ 69,066.25	\$ -	\$ -	\$ 69,066.25	\$ 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	\$ 41,102,883.00	\$ 2,659,478.37	\$ 5,866,842.88	\$ 1,342,466.28	\$ 9,868,787.53	\$ 8,155,396.00	

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



Monthly OPM Project Updates

September 2018

2016-04 West River Pump Station Replacement

Progress:

Last Month – Other options for pump station installation were analyzed with the engineer and discussed with the WM Schultz and the project team. The most cost- effective path forward was determined to be installing the new PS and wetwell in the existing PS and wetwell locations, however, more site complexities were identified by the contractor. WM Schultz drilled the perimeter of the existing PS and encountered rock in several locations. PS has been delivered and is being stored on-site. A monthly construction meeting was held on August 10th.



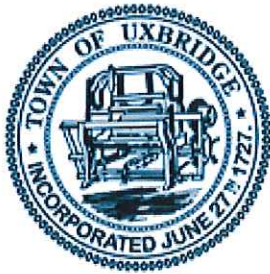
This Month – A monthly construction meeting was held on September 13th and WM Schultz reported to the project team that they are continuing to review support of excavation and dewatering for installation of the new PS and wetwell (in the existing PS and wetwell locations), with their subcontractors. The contractor very recently (9/18/18) provided supplemental information to the engineer and the path forward and cost implications are being further analyzed.

Schedule: Estimated Project Completion Date: November 30, 2018 (likely to be revised after path forward is determined)

Financial:	GHD Budget:	\$140,000	Invoiced: \$79,716	% Complete: 56.9%
	Contractor:	\$1,643,549*	Invoiced: \$484,649	% Complete: 29.5%

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

Submittal Status: Approximately 80% of submittals have been received and have been or are being reviewed.



- Action Items: Continue to work with WM Schultz to confirm the path forward for PS installation. Review cost implications of work revisions with the team for continued contingency management.
- Current Status: WM Schultz will provide updated information and GHD will confirm the preferred (cost effective) option to proceed with implementation and discuss with the Town.

2016-05 Wastewater Treatment Facility BNR & Infrastructure Upgrade

Progress: Last Month – DOC submitted shop drawings, continued to procure equipment/materials, continued work in the following areas: secondary electrical duct banks, new Septage Receiving area, new Preliminary Treatment building, new Garage, new SC #4, new equipment installation for SC #1, the Process Building, the Admin Building, Aeration basin expansions, utility tunnel #2 access, Aeration Basin #1, the new Filter Building, the new Chemical Building, Sludge Pump Station, and the Blower Building. A construction meeting was held on September 13, 2018. Photos below show a side-by-side comparison of the progress of construction from last month to this month.

This Month – DOC submitted shop drawings, continued to procure equipment/materials, continued electrical feed installation, installing rough HVAC, electrical & plumbing for the Septage Receiving area, installing insulated metal panels, rough electrical and plumbing and fine screen equipment in Preliminary Treatment, installing siding and beginning electrical, plumbing and HVAC and overhead doors in the new Garage, coatings & equipment installation in Primary Settling basins, install baffles & weirs in new SC #4, complete tank repairs and new equipment installation for SC #1, install roof supports for HVAC and openings, chemical feed buildout and HVAC ductwork in the Process Building, installation of new windows in the Admin Building, complete form/reinforce and installation of walls for Aeration basin expansions, installation of Aeration basin #1 equipment, abate ACM for utility tunnel #2 access, continue walls & interior slabs for the new Filter Building, base-mat installation then form walls for the new Chemical Building, begin rough electrical, remove and replace roof and access hatch for the Sludge Pump Station and continue rough electrical & HVAC in Blower Building. The Contractor's 11th payment application was processed for \$1,952,542.03. The next monthly construction meeting will be held on October 11, 2018.



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

New Garage (front) 8/2018



New Garage (rear) 9/2018



New Septage Receiving 8/2018



New Septage Receiving 9/2018





New Preliminary Treatment 8/2018



New Preliminary Treatment 9/2018



Aeration Tank Expansions Basemat 8/2018



Aeration Tank Expansions Walls & Forms 9/2018

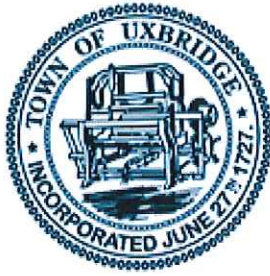


New Filter Building Walls 8/2018



New Filter Building Walls 9/2018





New Secondary Clarifier #4 8/2018



New Secondary Clarifier #4 9/2018



Schedule: Estimated Project Completion Date: February 21, 2020

Key Milestone Completion Dates: based on DOC 09/10/18 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	06/03/2019	E
Septage Receiving Building:	10/03/2017A	09/25/2017	03/08/2019	E
Sludge Thickener No. 2:	10/16/2017A	11/09/2017	06/26/2019	E
Site Electrical:	10/17/2017A	10/17/2017	05/20/2019	E
Secondary Clarifier No. 4	10/31/2017A	08/30/2017	06/13/2019	E
Yard Piping	11/28/2017A	07/11/2018	10/17/2019	E
Process/Admin Building with Finishes	12/19/2017A	02/28/2018	12/04/2019	E
Process Bldg. Blower Room:	01/23/2018A	02/12/2019	10/30/2019	E
Filter Building	02/07/2018A	07/20/2018	10/17/2019	E
Garage	03/12/2018A	04/16/2019	04/16/2019	E
Chemical Building	03/14/2018A	03/23/2018	12/04/2019	E

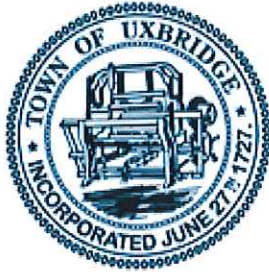


Activity	Start by Date in Progress Schedule	Start Date in Baseline Schedule	Finish by Date	Early (E), Late (L) or Actual (A) Date *
Sludge Pumping Station	03/20/2018A	04/15/2019	07/22/2019	E
Aeration Basins Nos. 1-3 Extensions	03/27/2018A	02/09/2018	01/13/2020	E
Main Pump Station	04/25/2018A	04/26/2019	07/26/2019	E
Blower Building	06/25/2018A	08/15/2018	01/07/2018	E
Utility Tunnel Access No. 2	06/26/2018A	06/28/2019	06/11/2019	E
Secondary Clarifier Nos. 1-3 Upgrade	07/02/2018A	10/09/2018	08/30/2019	E
Primary Settling Basins	07/16/2018A	02/15/2019	10/14/2019	E
Primary Settling D-Box	07/17/2018A	02/15/2019	10/11/2018	E
Aeration Basin Distribution Box	10/23/2018	07/02/2018	02/20/2019	L
UV & Post Aeration	12/18/2018	12/21/2018	11/22/2019	L
Utility Tunnel	03/05/2019	11/28/2018	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: \$ 172,398 % Complete: 34.5%
 GHD Budget: \$4,150,000 Invoiced: \$1,555,980 % Complete: 37.5%
 DOC Budget: \$34,881,914** Invoiced: \$12,407,136 % Complete: 35.6%

**Adjusted for Change Order No. 1, Change Order No. 2 & Change Order No. 3 (DOC)

Submittal Status: Approximately 81% of submittals have been received and have been or are being reviewed.

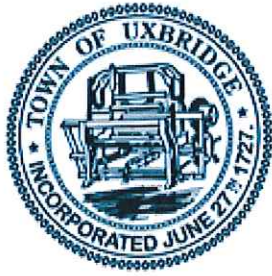


- Action Items: Continue to work with DOC to track strategies that have been implemented to restore float in the schedule (currently at -11 days overall (Admin Bldg), but positive for most of the various process paths) and continue construction progress at the increased rate. Continue to process submittals, process payment requisitions, process CO #4 and continue to evaluate potential change orders. The next SRF reimbursement request package will be submitted to DEP early next week.
- Current Status: DOC will continue submittals, procurement of equipment and materials and continue to maintain an increased labor presence on-site, as more work areas continue to be made 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	\$27,500 +	
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 Change Order No. 3 (8/15/18)	\$90,655.00	\$1,938,899.00
WWTF Change Order No. 4 (9/18)	\$56,443.00	\$1,882,456.00
WWTF Potential Change Orders ^b	\$321,000.00	
Utility Work (Eversource)	\$122,323.92	\$1,760,132.08



^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.

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**Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A
September 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	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Error	Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
1	1001B	Transformer access road	Beginning Balance	\$ 15,000	\$ 15,000					\$1,730,246.30	100.0%
2	1002	Relocate gas line	\$2,220.00					\$ 2,220		\$1,730,246.30	99.9%
3	1003A	Electrical modifications	\$17,785.00		\$ 17,785					\$1,710,241.30	98.8%
4	1004	Preliminary treatment cleanup	\$743.00		\$ 743					\$1,709,498.30	98.8%
5	1005	Septage pipe roof penetration	\$3,000.00					\$ 3,000		\$1,706,498.30	98.6%
6	FO11	Drill and grout dowels at PT bldg	\$359.00					\$ 359		\$1,706,139.30	98.6%
7	1007	Potable water well pump power and control	\$12,404.00		\$ 12,404					\$1,693,735.30	97.9%
8	1006	Core FDs in PT bldg	\$1,966.00			\$ 1,966				\$1,691,769.30	97.8%
9	1008	AIS compliant pinch valve	\$4,889.00			\$ 4,889				\$1,686,880.30	97.5%
10	FO12A	Relocate block retaining wall		\$ 20,000	\$ 20,000					\$1,686,880.30	97.5%
11	9	Pipe vents in septage bldg	\$7,440.00			\$ 7,440				\$1,679,440.30	97.1%
12	8	Septage bldg main cleanup		\$ 750	\$ 750					\$1,679,440.30	97.1%
13	1009	Replace valves at clarifier 4	\$20,394.00				\$ 20,394			\$1,659,046.30	95.9%
14	46	Changes to EMH13 and electrical room	\$65,500.00					\$ 65,500		\$1,593,546.30	92.1%
15	35	Trench drains in garage	\$0.00	\$ -						\$1,593,546.30	92.1%
15A	35	Trench drains in garage	\$0.00								
15B	35	Trench drains in garage (vents)	\$6,636.00			\$ 6,636				\$1,586,910.30	91.7%
16	1011	Primary scum level sensor	\$0.00					\$ -		\$1,586,910.30	91.7%
17	1012	Main PS bypass changes		\$ 1,500				\$ 1,500		\$1,586,910.30	91.7%
18		Weather impacts		\$ -	\$ -					\$1,586,910.30	91.7%
19	1015	Gravity Thickener 2 concrete fill		\$ 4,000			\$ 4,000			\$1,586,910.30	91.7%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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

September 18, 2018

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

Contract Value:
Contingency:
Construction
Budget:

\$34,604,926.00
\$1,730,246.30
\$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
20	53	PRE-MOD 7 & 15	\$0.00	\$ -					\$1,586,910.30	91.7%
21	43	Core and Link Seal	\$504.00			\$ 504			\$1,586,406.30	91.7%
22	1014	Demolish suspended ceiling	\$584.00		\$ 584				\$1,585,822.30	91.7%
23	46X	Reconfiguration of ductbank G-G - MOVED to PCO 14	\$0.00	\$ -					\$1,585,822.30	91.7%
24	1019	Cleanouts in chemical room	\$3,050.00		\$ 3,050				\$1,582,772.30	91.5%
25	1018	Firewall in chemical room	\$0.00		\$ -				\$1,582,772.30	91.5%
26		Buried fire alarm conduit in chemical room	\$4,240.00		\$ 4,240				\$1,578,532.30	91.2%
27	1021	Additional rebar at secondary clarifier 4		\$ 1,500		\$ 1,500			\$1,578,532.30	91.2%
28	64	GPR existing concrete	\$35,000.00		\$ 35,000				\$1,543,532.30	89.2%
29	1017	Relocate MW-105	\$9,444.00		\$ 9,444				\$1,534,088.30	88.7%
30	1022	Manhole covers		\$ 1,500		\$ 1,500			\$1,534,088.30	88.7%
31	74	Chemical room eyewash and water supply		\$ -				\$ -	\$1,534,088.30	88.7%
32	1025	Administration building changes		\$ -				\$ -	\$1,534,088.30	88.7%
33	1020	Gravity thickener supports		\$ 2,500		\$ 2,500			\$1,534,088.30	88.7%
34	38	Remove existing 8-inch scum line @ Sec Clar 4		\$ -	\$ -				\$1,534,088.30	88.7%
35	1026	Chemical Room Floor		\$ 15,000	\$ 15,000				\$1,534,088.30	88.7%
36	1027	Filter bldg gate and valves		\$ 30,000				\$ 30,000	\$1,534,088.30	88.7%
37	1029	Storage Room ADB-129 window	\$763.00					\$ 763	\$1,533,325.30	88.6%
38	1030	Sludge pumping station roof	\$25,270.00		\$ 25,270				\$1,508,055.30	87.2%
39	1031	Garage bathroom	\$0.00	\$ -					\$1,508,055.30	87.2%
40	1032	Admin/process building windows	\$19,260.00				\$ 19,260		\$1,488,795.30	86.0%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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

September 18, 2018

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

Contract Value:
Contingency:
Construction
Budget:

\$34,604,926.00
\$1,730,246.30
\$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
41	1035	Delete blower discharge valves		\$ (5,000)				\$ (5,000)	\$1,488,795.30	86.0%
42	105	ADB pull stations	\$1,770.00			\$ 1,770			\$1,487,025.30	85.9%
43	83	Details for lifting eyes	(\$9,515.00)					\$ (9,515)	\$1,496,540.30	86.5%
44	75R	Water supply size	\$7,012.00	\$ -		\$ 7,012			\$1,489,528.30	86.1%
45	76R	Emergency eyewash and shower				\$ -			\$1,489,528.30	86.1%
46	79	Flow alarms		\$ 1,000		\$ 1,000			\$1,489,528.30	86.1%
47	1037	Plant water system gate valves		\$ 20,000			\$ 20,000		\$1,489,528.30	86.1%
48	1036	Gravity thickener guard rails	(\$12,785.00)					\$ (12,785)	\$1,502,313.30	86.8%
49	82R1	Louver openings		\$ 10,000				\$ 10,000	\$1,502,313.30	86.8%
50	1039	Process Admin Bldg duct modifications	(\$878.00)					\$ (878)	\$1,503,191.30	86.9%
51	92	W05 window type		\$ -		\$ -			\$1,503,191.30	86.9%
52	1040	Glycol storage	\$1,150.00			\$ 1,150			\$1,502,041.30	86.8%
53	1038	Process Bldg. HVAC (west)	\$24,470.00			\$ 24,470			\$1,477,571.30	85.4%
54	93	Roof Openings - Admin. Bldg.		\$ 10,000		\$ 10,000			\$1,477,571.30	85.4%
55	1046	Water line - Process Bldg.		\$ 7,500		\$ 7,500			\$1,477,571.30	85.4%
56	1049	Slide Gates		\$ 6,000	\$ 6,000				\$1,477,571.30	85.4%
57	1047	Process Bldg. Roof Openings	\$25,130.00			\$ 25,130			\$1,452,441.30	83.9%
58	109	Toilet Carrier		\$ 20,000	\$ 20,000				\$1,452,441.30	83.9%
59	117	Chemical Building Gr.	\$1,840.00					\$ 1,840	\$1,450,601.30	83.8%
60	2C	Vents for OWS	\$6,560.00		\$ 6,560				\$1,444,041.30	83.5%
61	113	Utility Coordination	\$13,980.00		\$ 13,980				\$1,430,061.30	82.7%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Proposed Change Order (PCO) Log

and Project Funding Budget Status

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

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

September 18, 2018

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

Contract Value:

Contingency:

Construction

Budget:

\$34,604,926.00

\$1,730,246.30

\$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Error	Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
62	1050	Filter Bldg. Clean Out		\$ (5,000)				\$ (5,000)		\$1,430,061.30	82.7%
63	WCD1	Boiler Abatement	\$10,000.00		\$ 10,000					\$1,420,061.30	82.1%
64	1052	Vacuum Pump	\$845.00			\$ 845				\$1,419,216.30	82.0%
65	1054	Restroom Floor Drains	\$6,609.00		\$ 6,609					\$1,412,607.30	81.6%
66	146/147	Roof Drains	\$4,960.00		\$ 4,960					\$1,407,647.30	81.4%
67		Lead abatement at ceilings		\$ -	\$ -					\$1,407,647.30	81.4%
68	1058	Lab Plumbing Changes		\$ 2,000		\$ 2,000				\$1,407,647.30	81.4%
69	1059	IT Network Rack		\$ (1,000)				\$ (1,000)		\$1,407,647.30	81.4%
70	128	Bubblers in Admin bldg	(\$4,247.00)					\$ (4,247)		\$1,411,894.30	81.6%
71	1057	Aeration Basin 1 concrete repair		\$ 1,000	\$ 1,000					\$1,411,894.30	81.6%
72	1053	Chem PW		\$ 2,000		\$ 2,000				\$1,411,894.30	81.6%
73	89	Reloc. Plant Water in Process Building		\$ 3,500	\$ 3,500					\$1,411,894.30	81.6%
74	169	Recirc Line Chem Room Eyewash		\$ -	\$ -					\$1,411,894.30	81.6%
75	144 & 154	Chem & Filter Bldg. Plumbing Questions	\$5,095.00		\$ 5,095					\$1,406,799.30	81.3%
76	125	Chem and Filt Bldg Electrical Questions		\$ 7,000		\$ 7,000				\$1,406,799.30	81.3%
77	1060	Aeration Basin Port Opening Height		\$ -		\$ -				\$1,406,799.30	81.3%
78	173	Existing Topping Slab Clarifiers 1, 2, & 3		\$ (20,000)				\$ (20,000)		\$1,406,799.30	81.3%
79	162	South Elevation Downspout at Filter Building		\$ 1,000		\$ 1,000				\$1,406,799.30	81.3%
80	1061	Process/Admin Bldge Misc. Masonry		\$ 6,000		\$ 6,000				\$1,406,799.30	81.3%
81	1063	Existing Secondary Clarifiers Remedial Work		\$ 4,000	\$ 4,000					\$1,406,799.30	81.3%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A
 September 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	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Error	Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added			
82	1064	Security/Site Fence Location		\$ -			\$ -			\$1,406,799.30	81.3%
83	165	Chemical Day Tank Nameplate Info.	\$670.00				\$ 670			\$1,406,129.30	81.3%
84	157	Vent. Plumbing Conflict		\$ 1,000	\$ 1,000					\$1,406,129.30	81.3%
85	1066	CMU Brick Support Admin Windows		\$ 2,000		\$ 2,000				\$1,406,129.30	81.3%
86	177	Existing panel feeder intersection	\$14,982.00		\$ 14,982					\$1,391,147.30	80.4%
87	145	Garage Vent		\$ 1,500		\$ 1,500				\$1,391,147.30	80.4%
88	179	Prelim bldg downspout		\$ 6,000		\$ 6,000				\$1,391,147.30	80.4%
89	180	Drainage near primary settling basins		\$ 1,000				\$ 1,000		\$1,391,147.30	80.4%
90	194	Exterior walls at ADB116 and ADB117		\$ 10,000		\$ 10,000				\$1,391,147.30	80.4%
91	1071	Chemical room floor demo		\$ -		\$ -				\$1,391,147.30	80.4%
92	1072	Water heater and plumbing changes		\$ 5,000				\$ 5,000		\$1,391,147.30	80.4%
93	181	Process bldg drain to DMH3		\$ 8,000	\$ 8,000					\$1,391,147.30	80.4%
94	193	Masonry openings for door louvers and windows		\$ 10,000		\$ 10,000				\$1,391,147.30	80.4%
95	202	Trap primers in garage	\$3,106.00			\$ 3,106				\$1,388,041.30	80.2%
96	1076	Encase wall at UT access No. 2		\$ 5,000	\$ 5,000					\$1,388,041.30	80.2%
97	1075	Septage equipment walkway		\$ (3,000)				\$ (3,000)		\$1,388,041.30	80.2%
98	98	Delete toeboards at secondary clarifier	(\$10,777.00)	\$ -				\$ (10,777)		\$1,398,818.30	80.8%
99	203	Aeration wall and base slab		\$ 5,000	\$ 5,000					\$1,398,818.30	80.8%
100	61	OWS-4 Piping		\$ 1,000	\$ 1,000					\$1,398,818.30	80.8%
101	1078	Blower bldg floor slab		\$ 4,000	\$ 4,000					\$1,398,818.30	80.8%
102	1079	Grit chamber baffle demo		\$ 500	\$ 500					\$1,398,818.30	80.8%
103	164	Hangers and supports in chem and filtration bldg		\$ -						\$1,398,818.30	80.8%
104		HVAC controls (per 15985-001)	\$2,003.00					\$ 2,003		\$1,396,815.30	80.7%

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

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

September 18, 2018

Open
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Contract Value:
Contingency:
Construction
Budget:

\$34,604,926.00
\$1,730,246.30
\$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
105	1077	Admin bldg vestibule		\$ (2,000)				\$ (2,000)	\$1,396,815.30	80.7%
106	205	Window sill existing conditions		\$ 3,000	\$ 3,000				\$1,396,815.30	80.7%
107	182	Type SL mounting details		\$ 2,200	\$ 2,200				\$1,396,815.30	80.7%
108	1083	Prelim Treatment Influent Channel Fill		\$ 1,000		\$ 1,000			\$1,396,815.30	80.7%
109	206R2	Weir elevations		\$ 7,000		\$ 7,000			\$1,396,815.30	80.7%
110	1085	Sludge PS Access Hatch		\$ 1,500		\$ 1,500			\$1,396,815.30	80.7%
111	1086	Restroom north wall windows		\$ 1,000			\$ 1,000		\$1,396,815.30	80.7%
112	1088	Plant Water Chem Room 2		\$ 1,000	\$ 1,000				\$1,396,815.30	80.7%
113									\$1,396,815.30	80.7%
114	1065R	Chem bldg plumbing		\$ 2,000		\$ 2,000			\$1,396,815.30	80.7%
115									\$1,396,815.30	80.7%
116									\$1,396,815.30	80.7%
117	1092	Aeration basin guardrail swing gates		\$ 13,000			\$ 13,000		\$1,396,815.30	80.7%
		TOTAL	\$333,431.00						\$1,396,815.30	80.7%

September 18, 2018

\$36,335,172.30

Budget:

Page 7 of 8

**Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A
September 18, 2018**

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

\$34,604,926.00

\$1,730,246.30

\$36,335,172.30

Contract Value:
Contingency:
Construction
Budget:

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added		
		IDENTIFIED VALUE		\$ 646,281						

**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: August 2018

Construction Budget	\$	36,335,172
Initial Construction Contract	\$	34,604,926
Approved Change Orders*	\$	333,431
Unallocated Budget	\$	1,396,815

Construction Progress

Days Since June 26, 2017 Notice to Proceed	431	Construction Contract Value,	
Contract Duration	970	Including Change Orders	\$ 34,938,357.00
Days Remaining	539	Amount Earned to Date	\$ 13,060,143.49
Percent of Time Expended	44%	Percent of Value Completed	37%

Potential Change Orders (PCOs) vs Construction Budget

Requests for Information from DOC	222	No. of PCOs	117
Requests for Information from GHD	96	No. PCOs in Negotiation	49
Approved Change Orders*	4	Potential Change Amount	\$ 313,000
Percent of Initial Construction Contract	0.96%	Percent of Initial Contract	0.90%

Contingency Management

Contingency - Percent of Initial Contract	5%	Contingency Amount	\$ 1,730,246
Percent of Contingency in Change Orders	19.3%	Change Orders to Date	\$ 333,431
Percent of Contingency in Potential Changes	18%	Potential Changes	\$ 313,000
Percent of Contingency Identified	37%	Total Changes Identified	\$ 646,000
Percent of Contingency Remaining	63%	Remaining Contingency	\$ 1,084,246

* Includes Change Order No. 4, which is being finalized before submittal to Town



MEETING SIGN IN SHEET
WEDNESDAY, SEPTEMBER 19, 2018, 5:00 pm
LOWER TOWN HALL, 21 SOUTH MAIN STREET, UXBRIDGE, MA

Dave was present
but didn't sign in

[illegible]

Urbidge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Change Orders - Summary
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A

Contract Value: \$ 34,604,928

Change Order No	PCO	RFI	Change Order Description	Change Order Value	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added	Error	Change Order Total Value	Cumulative Value of Approved Change Orders	Contract Value w/ Approved Change Orders	Formal Change Order Approval Date	Cumulative Change Order Value % of Contingency	Cumulative Change Order Value % of Original Contract Value
1	9	1008	ALS compliant punch valve	\$ 4,889.00	-	\$ 4,889.00	-	-	-	\$ 4,889.00	\$ 60,283.00	\$ 34,685,205.00	3/12/2018	3.48%	0.17%
	13	1009	Replace valves at clarifier 4	\$ 20,394.00	-	-	\$ 20,394.00	-	-	\$ 20,394.00	\$ 80,677.00				
	64	1009	GPR existing concrete	\$ 35,000.00	\$ 35,000.00	-	-	-	-	\$ 35,000.00	\$ 115,677.00				
	4		Preliminary treatment cleanout	\$ 743.00	-	-	-	-	-	\$ 743.00	\$ 116,420.00				
	5		Sealage pipe roof penetration	\$ 3,000.00	-	-	-	-	-	\$ 3,000.00	\$ 119,420.00				
	8	1008	Core FDS in PT Bldg	\$ 1,985.00	-	-	-	-	-	\$ 1,985.00	\$ 121,405.00				
	11	9	Pipe vents in seepage bldg	\$ 7,440.00	-	\$ 7,440.00	-	-	-	\$ 7,440.00	\$ 128,845.00				
	14	46	Changes to EMH-13 and electrical room	\$ 65,500.00	-	-	-	-	-	\$ 65,500.00	\$ 194,345.00				
	158	35	Trench drains in garage (vents)	\$ 6,636.00	-	-	-	-	-	\$ 6,636.00	\$ 200,981.00				
	21	43	Care and Link Seal	\$ 504.00	-	-	-	-	-	\$ 504.00	\$ 201,485.00				
2	22	1014	Demolish suspended ceiling	\$ 584.00	-	-	-	-	-	\$ 584.00	\$ 202,069.00				
	24	1019	Cleanouts in chemical room	\$ 3,050.00	-	-	-	-	-	\$ 3,050.00	\$ 205,119.00				
	26	1017	Relocate AHU-105	\$ 9,444.00	\$ 9,444.00	-	-	-	-	\$ 9,444.00	\$ 214,563.00				
	37	1038	Storage Room ADB-123 window	\$ 763.00	-	-	-	-	-	\$ 763.00	\$ 215,326.00				
	38	1030	Storage Room ADB-123 roof	\$ 25,270.00	\$ 25,270.00	-	-	-	-	\$ 25,270.00	\$ 240,596.00				
	52	1040	Gravel storage	\$ 1,150.00	-	\$ 1,150.00	-	-	-	\$ 1,150.00	\$ 241,746.00				
	2	1002	Relocate gas line	\$ 2,220.00	-	-	-	-	-	\$ 2,220.00	\$ 243,966.00				
	5	F011	Drill and grout dowels at PT Bldg	\$ 359.00	-	-	-	-	-	\$ 359.00	\$ 244,325.00				
	7	1007	Portable water well pump power and control	\$ 12,404.00	\$ 12,404.00	-	-	-	-	\$ 12,404.00	\$ 256,729.00				
	28	0	Burned fire alarm control in chemical room	\$ 4,240.00	\$ 4,240.00	-	-	-	-	\$ 4,240.00	\$ 260,969.00				
3	40	1032	Administrative building windows	\$ 19,280.00	-	-	\$ 19,280.00	-	-	\$ 19,280.00	\$ 280,249.00				
	42	106	ADB P&ID station	\$ 1,770.00	-	\$ 1,770.00	-	-	-	\$ 1,770.00	\$ 282,019.00				
	43	83	Details for lifting eyes	\$ 9,513.00	-	-	-	-	-	\$ 9,513.00	\$ 291,532.00				
	46	1035	Gravelly methane guard rails	\$ 12,785.00	-	-	-	-	-	\$ 12,785.00	\$ 304,317.00				
	48	1039	Process Admin Bldg duct modifications	\$ 678.00	-	-	-	-	-	\$ 678.00	\$ 305,000.00				
	50	1036	Process Admin Bldg duct modifications	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 329,470.00				
	55	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 353,940.00				
	59	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 378,410.00				
	61	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 402,880.00				
	62	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 427,350.00				
4	63	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 451,820.00				
	64	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 476,290.00				
	65	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 500,760.00				
	66	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 525,230.00				
	67	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 549,700.00				
	68	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 574,170.00				
	69	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 598,640.00				
	70	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 623,110.00				
	71	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 647,580.00				
	72	1037	Process Admin Bldg (west)	\$ 24,470.00	-	\$ 24,470.00	-	-	-	\$ 24,470.00	\$ 672,050.00				