

# STAFF SUMMARY

Date: February 17, 2020 File# GM-739



TO:		FOR:		FROM:
	General Manager		Vote	Dept.: General Manager
				Author: Robert B. Davis
x	Board Members	x	Information	Subject: Report on Woods Hole Terminal Reconstruction Project Timeline and Budget

**PURPOSE:**

To advise the Members and the Port Council of the results thus far of the staff’s review of the Woods Hole Terminal Reconstruction Project Timeline and Budget.

**BACKGROUND:**

On Tuesday, January 21, 2020, I provided an update on the Woods Hole Terminal Reconstruction Project to the Members and the attendees at the Authority’s monthly meeting.

Later in the meeting, I presented Change Order No. 53 to Contract No. 9B-2012, “Woods Hole Terminal Design Services” from BIA.Studio, which seeks an additional \$885,681 in fees relating to schematic design services for the recently approved one-story terminal building and two-story utility building, the existing temporary terminal building and the previously submitted two-story terminal designs that did not obtain approvals. During my presentation, some Members expressed concern about Change Order No. 53 and requested (1) an independent review of the reasonableness of BIA.Studio’s fees and (2) a projected total cost for BIA.Studio to complete the project. Some Members also expressed concerns about the costs submitted by marine contractor, Jay Cashman, Inc. Consideration of Change Order No. 53 was postponed pending the results of an independent review of the reasonableness of BIA.Studio’s fees.

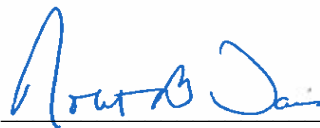
Following the Members’ meeting on January 21, 2020, I instructed staff to produce a complete and updated accounting of BIA.Studio’s Contract No. 9B-2012 and Jay Cashman, Inc.’s Contract No. 16-2017, including all change orders. In addition, I instructed staff to investigate potential vendors to complete an independent review of BIA.Studio’s fees. To date, staff have contacted the State Designer Selection Board, which declined to provide any referrals to review the reasonableness of BIA.Studio’s fees. Efforts to source a qualified reviewer continue at the present writing. Meanwhile, I have requested that former General Counsel, Steven Sayers, review the accounting of BIA.Studio’s fees in conjunction with the language of Contract No. 9B-2012 to determine whether the fees are aligned with the applicable contractual terms and conditions.

Staff have also compiled a full and complete accounting of BIA.Studio’s Contract No.

9B-2012 and Jay Cashman, Inc.'s Contract No. 16-2017, including all change orders. A summation of staff's accounting is illustrated in a PowerPoint presentation attached hereto as Exhibit A and in spreadsheets attached hereto as Exhibit B. Applicable change orders for BIA.Studios and Jay Cashman, Inc. are summarized in spreadsheets attached hereto as Exhibit C.

**RECOMMENDATION:**

This summary and its attachments are provided for informational purposes. In light of the information presented, it is my recommendation that the Authority complete its review of the accounting of BIA.Studio's Contract No. 9B-2012 and Jay Cashman, Inc.'s Contract No. 16-2017, including all change orders, and determine the results of Attorney Sayers' review of BIA.Studio's Contract No. 9B-2012 before committing additional funds to pay for an independent review of BIA.Studio's fees. In addition, staff should continue its investigation into sourcing potential vendors to perform an independent review of BIA.Studio's fees, including obtaining reliable estimates concerning the costs of such a review.



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Robert B. Davis  
General Manager

**EXHIBIT A**

*PowerPoint Presentation - Summation of Staff's Accounting of BIA.Studio's Contract No. 9B-2012 and Jay Cashman, Inc.'s Contract No. 16-2017 as of February 17, 2020*





# WOODS HOLE TERMINAL RECONSTRUCTION PROJECT



Project cost update

Steamship Authority  
Board & Port Council  
meeting

February 18, 2020

# COST BREAKDOWN BY PROJECT ELEMENT

	Budget	Net Change Orders*	Total cost
Feasibility Study	\$ 300,000	\$ 693,204	\$ 993,204
Administration Building	\$ 14,824,886	\$ 970,993	\$ 15,795,879
Temporary Terminal Building	\$ 2,754,182	\$ 274,013	\$ 3,028,195
Waterside	\$ 54,547,915	\$ 2,513,341	\$ 57,061,256
Permanent Terminal Building & Storage Building	\$ 15,236,257	\$ 652,492	\$ 15,888,749
Woods Hole Terminal Reconstruction Total	\$ 87,663,240	\$ 5,104,043	\$ 92,767,283

\*Includes additional services, regulatory requirements, and changes to scope of contract



# PROJECT HISTORY

# AWARDED CONTRACTS

- Feasibility study (Contract 09-2012, BIA.studio\*)
  - Board approved award April 16, 2013
  - Covered public meetings and presentations; terminal, site & customer experience planning
  - Contract amount: \$300,000
- Woods Hole Terminal Design (Contract 09B-2012, BIA.studio\*)
  - Board approved award April 21, 2015
  - Covers permitting, schematic design, construction documents, construction administration
  - Contract amount: \$5,041,000
- Administration building construction (Contract 16-2016, G&R Construction)
  - Board approved award October 18, 2016
  - Covered construction of Authority's administrative offices
  - Contract amount: \$12,687,000

# AWARDED CONTRACTS

- Temporary terminal building (Contract 23-2016, Triumph Modular)
  - Board approved award November 15, 2016
  - Covered modular temporary terminal building at the Woods Hole terminal
  - Contract amount: \$2,591,182
- Waterside construction contract (Contract 17-2017, Jay Cashman Inc.)
  - Board approved award December 5, 2017
  - Covers Phases 2-4 of waterside work (demolition and construction of three ferry slips)
  - Contract amount: \$43,143,280
- Other contracts approved by Board:
  - Demolition of terminal building (Contract 12-2017 with J.R. Vinagro, \$155,000)
  - Temporary passenger tent (Contract 09-2018 with PAOCON, \$186,000)



# BIA.STUDIO COSTS

Original design contract: \$5,041,000

# BIA.STUDIO – CHANGE ORDERS TO DATE

- Construction administration services (including engineering, environmental)
  - Anticipated amount: \$3,157,000
    - (\$739,000 for 2018; \$654,000 for 2019; \$667,000 for 2020; \$705,000 for 2021; and \$392,000 for 2022)
  - Additional services above estimate 2018-2020: \$612,234
- Terminal building design
  - Budget: \$2,135,000
  - Change orders: \$652,492
  - Total to date: \$2,787,492
- Testing and monitoring services (GZA Environmental)
  - Budget: \$938,665

# BIA.STUDIO – CHANGE ORDERS TO DATE

- Administration office building design
  - Budget: \$819,000
  - Change orders: \$444,005
  - Total: \$1,263,005
- Waterside design
  - Budget: \$1,357,000
  - Change orders: \$1,007,050
  - Total to date: \$2,365,050
- Permitting work
  - Budget: \$240,000
  - Change orders: \$531,767
  - Total: \$771,767

# JAY CASHMAN INC. COSTS

Original construction contract: \$43,143,280

Average of seven bids received: \$53,600,000

# CASHMAN – CHANGE ORDERS TO DATE

- Approved by the Board – 10 change orders
  - \$135,918.88 Change Order 18, additional pile lengths
  - \$241,500.00 Change Order 20, transport/dispose of urban fill at wharf excavation
  - \$124,273.61 Change Order 27, additional work required due to Slip 3 sheet pile obstructions
  - \$168,450.57 Change Order 32, obstruction impacts for 96-inch monopiles in Slip 3
  - \$314,862.41 Change Order 33, bulkhead and deadman wall realignment in Slip 3
  - \$398,192.27 Change Order 44, additional work on monopile 8 in Slip 3
  - \$216,289.69 Change Order 52, wood platform and passenger footing at Slip 1
  - \$159,274.27 Change Order 53, fender modifications and material costs in Slip 3
  - \$271,562.75 Change Order 56, barging and offloading excavated materials offsite from Slip 2
  - \$127,410.03 Change Order 62, passenger ramps and access at Slip 1

**TOTAL: \$2,157,734.48**



# CASHMAN – CHANGE ORDERS TO DATE

- Approved by Project Manager, Treasurer and General Manager – 54 change orders
- Each less than \$100,000 per Part F, Section 2(B) of Authority Procurement Policy

TOTAL: \$2,186,699.18

CHANGE ORDERS TO DATE: \$4,344,333.66

## Major reasons for change orders to date

- Obstructions encountered while pile driving
- Delays in construction and work accelerated to meet schedule prior to resumption of summer season
- Southernmost slip changes for operational needs (passenger platform, oil shed conversion to passenger shelter, installation of bus shelter)
- Site excavation and fill removal
- Bulkhead failure in Slip 3

# WHAT'S TO COME

# FUTURE COSTS, KNOWN AND UNKNOWN

## Upcoming change orders and project phases

- Anti-scour pad design and construction
- Bulkhead remediation to the north of Slip 3
- Construction administration services 2021 and beyond
- Terminal building/utility building design and construction

## Potential change orders

- Obstructions during Slip 1 (southernmost slip) and southern passenger pier construction. Work to begin fall 2020.

# QUESTIONS?

**EXHIBIT B**

*Woods Hole Reconstruction Project Cost Summation Spreadsheets*



**Woods Hole Terminal Reconstruction Project**

Item	Notes	Budget	Net Change Orders	Total Cost
<b>Design &amp; Engineering</b>				
Original Feasibility Study Contract (BIA)	Contract # 09-2012	\$ 300,000	\$ 693,204	\$ 993,204
<b>Design &amp; Engineering</b>				
Original Design & Engineering Contract (BIA)		\$ -	\$ -	\$ -
Balance of Permitting	Contract # 09B-2012	\$ 240,000	\$ 531,767	\$ 771,767
Landside	Contract # 09B-2012	\$ 2,135,000	\$ 652,492	\$ 2,787,492
Waterside	Contract # 09B-2012	\$ 1,357,000	\$ 1,007,050	\$ 2,364,050
Palmer Ave General Offices	Contract # 09B-2012	\$ 819,000	\$ 444,005	\$ 1,263,005
Construction Administration - Admin Building	Contract # 09B-2012	\$ 327,000	\$ -	\$ 327,000
Construction Administration - Temp. Terminal	Contract # 09B-2012	\$ 163,000	\$ -	\$ 163,000
Testing Services (GZA) - November 2017	Approved by Board on 12/5/17	\$ 938,665	\$ (6,634)	\$ 932,031
Construction Admin (BIA)	Presented to Board on 12/5/17	\$ 3,157,000	\$ 612,234	\$ 3,769,234
		\$ -	\$ -	\$ -
<b>Total Design &amp; Engineering</b>		\$ 9,436,665	\$ 3,934,118	\$ 13,370,783
		\$ -	\$ -	\$ -
<b>General Construction</b>				
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
Original Contract (Barn Demo)		\$ 34,000	\$ 4,346	\$ 38,346
Original Admin Contract (G & R Construction)	Contract # 16-2016	\$ 12,687,000	\$ 1,021,672	\$ 13,708,672
Original Modular Bldg. Contract (Triumph)	Contract # 23-2016	\$ 2,591,182	\$ 121,888	\$ 2,713,070
Original Contract (Terminal Demo)	Contract # 12-2017	\$ 155,000	\$ 25,018	\$ 180,018
Original Contract (Terminal Tent - Temporary)	Contract # 09-2018	\$ -	\$ 195,700	\$ 195,700
Original Waterside Contract (Jay Cashman, Inc.)	Contract # 17-2017	\$ 43,143,280	\$ 4,344,334	\$ 47,487,614
Original Contract (Permanent Terminal) (Est.)		\$ 14,411,383	\$ -	\$ 14,411,383
Anticipated Additional Costs		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>Total General Construction</b>		\$ 73,021,845	\$ 5,712,958	\$ 78,734,803
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>Owner Supplied Materials</b>				
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
Original Contract (Admin Bldg.)		\$ 151,020	\$ 187,146	\$ 338,166
Original Contract (Temp Bldg.)		\$ -	\$ 152,125	\$ 152,125
Original Contract (Waterside)		\$ 100,000	\$ -	\$ 100,000
Anticipated Additional Costs		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>Total Owner Supplied Materials</b>		\$ 251,020	\$ 339,271	\$ 590,291
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>SSA Personnel</b>				
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
Original Contract (Clerk of Works)(Admin)		\$ 100,800	\$ 19,890	\$ 120,690
Original Contract (Clerk of Works)(Marine)		\$ 374,400	\$ -	\$ 374,400
Owners Representative (Admin)		\$ -	\$ 133,700	\$ 133,700
Owners Representative (Marine)		\$ 625,600	\$ -	\$ 625,600
Anticipated Additional Costs		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>Total SSA Personnel</b>		\$ 1,100,800	\$ 153,590	\$ 1,254,390
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
<b>Allowance for Contingencies</b>				
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
Original Contract (Admin)		\$ 706,066	\$ (706,066)	\$ -
Original Contract (Waterside)		\$ 4,329,828	\$ (4,329,828)	\$ -
		\$ -	\$ -	\$ -
<b>Total Allowance for Contingencies</b>		\$ 5,035,894	\$ (5,035,894)	\$ -
		\$ -	\$ -	\$ -
		\$ -	\$ -	\$ -
Feasibility Study		\$ 300,000	\$ 693,204	\$ 993,204
Administration Building		\$ 14,824,886	\$ 970,993	\$ 15,795,879
Temporary Terminal Building		\$ 2,754,182	\$ 274,013	\$ 3,028,195
Waterside		\$ 54,547,915	\$ 2,513,341	\$ 57,061,256
Permanent Terminal Building & Storage Building		\$ 15,236,257	\$ 652,492	\$ 15,888,749
		\$ -	\$ -	\$ -
<b>Woods Hole Terminal Reconstruction Total</b>		\$ 87,663,240	\$ 5,104,043	\$ 92,767,283

**Temporary Terminal Summary**

Item	Notes	Budget	Net Change Orders	Total Cost
<b>Design &amp; Engineering</b>				
Construction Administration - Temp. Terminal	Contract # 09B-2012	\$ 163,000	-	\$ 163,000
Design & Engineering		\$ 163,000	-	\$ 163,000
<b>General Construction</b>				
Original Modular Bldg. Contract (Triumph)	Contract # 23-2016	\$ 2,591,182	121,888	\$ 2,713,070
Anticipated Additional Costs				
Sub-Total		\$ -	-	\$ -
Owner Supplied Materials		\$ -	152,125	\$ 152,125
SSA Personnel		\$ -	-	\$ -
Allowance for Contingencies		\$ -	-	\$ -
<b>Total Amount</b>		<b>\$ 2,754,182</b>	<b>274,013</b>	<b>\$ 3,028,195</b>

Administration Building Summary

Item	Notes	Budget	Net Change Orders	Total Cost
<b>Design &amp; Engineering</b>				
Original Contract (BIA)	Contract # 09B-2012	\$ 819,000	444,005	\$ 1,263,005
Construction Admin (BIA)	Contract # 09B-2012	\$ 327,000	-	\$ 327,000
		\$ -	-	\$ -
<b>Design &amp; Engineering</b>		\$ 1,146,000	444,005	\$ 1,590,005
		\$ -	-	\$ -
		\$ -	-	\$ -
		\$ -	-	\$ -
General Construction		\$ -	-	\$ -
		\$ -	-	\$ -
		\$ -	-	\$ -
Original Contract (Barn Demo)		\$ 34,000	4,346	\$ 38,346
Original Admin Contract (G & R Construction)	Contract # 16-2016	\$ 12,687,000	1,021,672	\$ 13,708,672
		\$ -	-	\$ -
Sub-Total		\$ 12,721,000	1,026,018	\$ 13,747,018
		\$ -	-	\$ -
<b>Owner Supplied Materials</b>		\$ 151,020	187,146	\$ 338,166
		\$ -	-	\$ -
<b>SSA Personnel</b>		\$ 100,800	19,890	\$ 120,690
		\$ -	-	\$ -
		\$ -	-	\$ -
<b>Allowance for Contingencies</b>		\$ 706,066	(706,066)	\$ (706,066)
		\$ -	-	\$ -
<b>Total Amount</b>		\$ 14,824,886	970,993	\$ 15,795,879

**Waterside Construction Summary**

Item	Notes	Budget	Net Change Orders	Total Cost
<b>Design &amp; Engineering</b>				
Original Design & Engineering Contract (BIA)	Contract # 09B-2012	\$ -	\$ -	\$ -
Balance of Permitting	Contract # 09B-2012	\$ 240,000	\$ 531,767	\$ 771,767
Waterside	Approved by Board on 12/5/17	\$ 1,357,000	\$ 1,007,050	\$ 2,364,050
Testing Services (GZA) - November 2017	Presented to Board on 12/5/17	\$ 938,665	\$ (6,634)	\$ 932,031
Construction Admin (BIA)	Presented to Board on 12/5/17	\$ 3,157,000	\$ 612,234	\$ 3,769,234
Balance of Permitting	Presented to Board on 12/5/17	\$ 127,142	\$ -	\$ 127,142
<b>Design &amp; Engineering</b>		\$ 5,819,807	\$ 2,144,417	\$ 7,964,224
<b>General Construction</b>				
Original Contract (Terminal Demo)	Contract # 12-2017	\$ 155,000	\$ 25,018	\$ 180,018
Original Contract (Terminal Tent - Temporary)	Contract # 09-2018	\$ -	\$ 195,700	\$ 195,700
Original Waterside Contract (Jay Cashman, Inc.)	Contract # 17-2017	\$ 43,143,280	\$ 4,344,334	\$ 47,487,614
Anticipated Additional Costs				
Sub-Total		\$ 43,298,280	\$ 4,565,052	\$ 47,863,332
<b>Owner Supplied Materials</b>				
Original Contract (Waterside)		\$ 100,000	\$ -	\$ 100,000
Anticipated Additional Costs		\$ -	\$ -	\$ -
Owner Supplied Materials		\$ 100,000	\$ -	\$ 100,000
SSA Personnel		\$ -	\$ -	\$ -
Original Contract (Clerk of Works)(Marine)		\$ 374,400	\$ -	\$ 374,400
Owners Representative (Admin)		\$ -	\$ 133,700	\$ 133,700
Owners Representative (Marine)		\$ 625,600	\$ -	\$ 625,600
Anticipated Additional Costs		\$ -	\$ -	\$ -
SSA Personnel		\$ 1,000,000	\$ 133,700	\$ 1,133,700
Allowance for Contingencies		\$ -	\$ -	\$ -
Original Contract (Waterside)		\$ 4,329,828	\$ (4,329,828)	\$ -
<b>Total Amount</b>		\$ 54,547,915	\$ 2,513,341	\$ 57,061,256

**EXHIBIT C**

*Woods Hole Reconstruction Project Change Order Summaries*



Jay Cashman, Inc									
Woods Hole Terminal Reconstruction Marine Work									
Contract # 16-2017									
							Sheet 1		
				1	2	3	4		
				ORIGINAL PROJECT AMOUNT	CHANGE ORDER NUMBER	CHANGE ORDER AMOUNT	REVISED PROJECT TOTAL		
DATE	DESCRIPTION								
1	02/05/2018	Changed electrical work			43,143,280.00	1	12,490.85	43,155,770.85	1
2	02/20/2018	Removal of unsuitable fill				2	96,540.00	43,252,310.85	2
3	02/20/2018	Electrical enabling work				3	32,354.47	43,284,665.32	3
4	02/20/2018	Telecommunications enabling work				4	27,011.60	43,311,676.92	4
5	03/12/2018	Changes to power supply for slip 2 transfer bridge				5	6,333.66	43,318,010.58	5
6	03/23/2018	Additional 5 removable bollards				6	10,023.83	43,328,034.41	6
7	05/08/2019	Furnish/deliver 2 replacement fenders				7	68,134.24	43,396,168.65	7
8	05/23/2018	Modifications to relocated passenger platform				8	49,217.49	43,445,386.14	8
9	05/17/2018	Recovery for lost time on dolphin/platform work				9	75,483.57	43,520,869.71	9
10	04/23/2018	Additional cost for contaminated soil disposal				10	16,272.84	43,537,142.55	10
11	05/30/2018	Additional work at fender 28				11	75,959.92	43,613,102.47	11
12	06/20/2018	Support SSA staff for upgrades to slip #2 (exp 404104)				12	31,453.88	43,644,556.35	12
13	07/17/2018	Rehab/improve slip 3 bollard				13	49,241.97	43,693,798.32	13
14	07/17/2018	Accelerated excavation				14	5,967.34	43,699,765.66	14
15	07/17/2018	Added gangway electrical work				15	19,973.27	43,719,738.93	15
16	07/17/2018	Additional paving				16	11,783.15	43,731,522.08	16
17	07/25/2018	Impact/on-site work required due to UST discovery				17	60,353.06	43,791,875.14	17
18	09/25/2018	Additional pile length and extension impacts				18	135,918.88	43,927,794.02	18
19	08/31/2018	Float pile guide changes				19	26,061.62	43,953,855.64	19
20	10/16/2018	Transport/dispose of urban fill at wharf excavation				20	241,500.00	44,195,355.64	20
21	10/24/2018	Study pile length alternatives				21	9,879.23	44,205,234.87	21
22	11/02/2018	Pre-trench below 10' for obstructions				22	84,841.68	44,290,076.55	22
23	11/19/2018	Study on and testing of pile length alternatives				23	21,352.71	44,311,429.26	23
24	12/17/2018	Handle, store, and manage excess soils at L. Lynch				24	41,676.18	44,353,105.44	24
25	12/21/2018	Additional obstruction impacts during Deadman removal				25	87,030.74	44,440,136.18	25
26	01/15/2019	Soil loadout delays				26	21,013.88	44,461,150.06	26
27	02/19/2019	Add'l work required due to obstructions slip 3 sheet pile				27	124,273.61	44,585,423.67	27
28	01/18/2019	Supply and install additional tie rod				28	5,595.09	44,591,018.76	28
29	01/18/2019	Revisions to sheet wall CIP Capwall				29	38,863.12	44,629,881.88	29
30	02/22/2019	Phase 2B Catwalk length revisions				30	68,706.95	44,698,588.83	30
31	02/28/2019	Change to wale system northwest corner				31	18,553.46	44,717,142.29	31
32	03/19/2019	Change for obstruction impacts 96" monopile driving				32	168,450.57	44,885,592.86	32
33	03/19/2019	Change for bulkhead and Deadman wall realignment				33	314,862.41	45,200,455.27	33
34	03/31/2019	Changes in orientation distribution panels Slip #3				34	38,059.09	45,238,514.36	34
35	03/31/2019	Obstructions encountered bulkhead at Slip #3				35	76,413.34	45,314,927.70	35
36	03/31/2019	Add guardrails around mooring bollards				36	88,737.93	45,403,665.63	36
37	03/31/2019	Add lights for electrical maintenance				37	3,357.33	45,407,022.96	37
38	03/31/2019	Moniz Pit monitoring and maintenance				38	36,283.77	45,443,306.73	38
39	04/23/2019	Sheet pile survey monitoring program				39	28,668.09	45,471,974.82	39
40	04/23/2019	Pile driving Testing Impacts				40	48,535.73	45,520,510.55	40
41	07/11/2019	Schedule recovery due to delays: 22,28,29,34,35,36				41	94,254.69	45,614,765.24	41
42	07/11/2019	Transfer Bridge				42	25,397.04	45,640,162.28	42
43	07/11/2019	Storage of dredge materials				43	11,188.76	45,651,351.04	43
44	07/11/2019	Changes for additional work on monopile 9				44	398,192.27	46,049,543.31	44
45	07/11/2019	electrical changes for Slip 3				45	18,149.59	46,067,692.90	45
46	07/31/2019	Change for geometry changes to gallows & cap				46	37,952.31	46,105,645.21	46
47	08/07/2019	Alternate Pile coating				47	73,116.73	46,178,761.94	47
48	08/19/2019	Slip 3 boundary fence and delays w/ pipe pile				48	76,123.38	46,254,885.32	48
49	08/19/2019	Unknown obstruction delays during utility installations				49	5,389.31	46,260,274.63	49
50	10/09/2019	<b>Slip 3#3 Fender Modifications</b>				50	94,593.64	46,354,868.27	50
							3,211,588.27	7.4%	

Jay Cashman, Inc							
Woods Hole Terminal Reconstruction Marine Work							
Contract # 16-2017							
						Sheet 2	
		1	2	3	4		
		ORIGINAL PROJECT AMOUNT	CHANGE ORDER NUMBER	CHANGE ORDER AMOUNT	REVISED PROJECT TOTAL		
DATE	DESCRIPTION						
	Balance from Sheet 1				46,354,868.27		
1	10/09/2019	Moniz Pit SWPP	51	15,648.07	46,370,516.34	1	
2	10/16/2019	Added Slip #2 Passenger Footing & Wood Platform	52	216,289.69	46,586,806.03	2	
3	10/16/2019	Fender Modifications and Material Cost	53	159,274.27	46,746,080.30	3	
4	11/04/2019	North Wharf 16in diameter Pile Modifications	54	38,841.38	46,784,921.68	4	
5	11/04/2019	Supply 200 LF of Precast Concrete Barrier	55	9,987.12	46,794,908.80	5	
6	11/19/2019	Barging and Offloading Excavatec Materials Offsite	56	271,562.75	47,066,471.55	6	
7	11/20/2019	Precast Paver Additional Stock	57	14,548.43	47,081,019.98	7	
8	11/20/2019	Changes due to ASI 9, 9R & 10	58	14,000.13	47,095,020.11	8	
9	11/20/2019	Canopy Column Cap Plate Detail Revisions	59	28,508.54	47,123,528.65	9	
10	11/20/2019	Telecommunication & Electrical at Slip 2	60	68,784.57	47,192,313.22	10	
11	12/11/2019	Modifications to Bollard Platform at MP#9	61	14,249.31	47,206,562.53	11	
12	12/18/2019	Slip 2 Passenger Ramps and Access	62	127,410.03	47,333,972.56	12	
13	12/18/2019	Premium hours for phase 3 operations	63	75,935.44	47,409,908.00	13	
14	01/22/2020	Premium hours for phase 3 operations	64	77,705.66	47,487,613.66	14	
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49			99			49	
50			100			50	
				4,344,333.66	10.1%		

Bertaux + Iwerks Architects								
Woods Hole Terminal Reconstruction Project								
Contract # 09B-2012								
							Sheet 1	
				1	2	3	4	
				ORIGINAL	CHANGE	CHANGE	REVISED	
				PROJECT	ORDER	ORDER	PROJECT	
				AMOUNT	NUMBER	AMOUNT	TOTAL	
DATE	DESCRIPTION							
1	06/11/2015	MEPA permit support, vessel measurement	A	5,041,000.00	1	35,809.00	5,076,809.00	1
2	06/11/2015	Geotechnical & environmental services	A		2	43,422.00	5,120,231.00	2 <input checked="" type="checkbox"/>
3	09/28/2015	Geotechnical & environmental services	A		3	57,606.00	5,177,837.00	3
4	09/30/2015	Asbestos & hazardous assessment	A		4	9,460.00	5,187,297.00	4
5	10/22/2015	Provide add'l asbestos & haz assessment	A		5	7,205.00	5,194,502.00	5
6	12/21/2015	Add'l groundwater monitoring, data evaluation	A		6	11,137.00	5,205,639.00	6
7	12/30/2015	GZA to provide add'l borings, test & analysis	A		7	20,900.00	5,226,539.00	7
8	02/25/2016	Multiple support tasks, alternatives	A		8	28,718.00	5,255,257.00	8
9	03/18/2016	Support services for utilities incentives	A		9	20,000.00	5,275,257.00	9
10	03/18/2016	GZA Environmental probing for obstructions	A		10	232,968.00	5,508,225.00	10
11	03/18/2016	GZA support tasks for ENF and NOI	A		11	27,543.00	5,535,768.00	11
12	03/30/2016	Geotechnical review of peat & organic silt	A		12	33,527.00	5,569,295.00	12
13	04/20/2016	GZA design sewage pumping station	A		13	39,930.00	5,609,225.00	13
14	06/22/2016	MAAB Vessel Variance Application	A		14	22,579.00	5,631,804.00	14
15	06/22/2016	GZA eelgrass study per Fal. Conservation C	A		15	23,430.00	5,655,234.00	15
16	08/04/2016	Prequalification submission reviews	A		16	5,850.00	5,661,084.00	16
17	09/27/2016	Provide Environmental Monitoring Services	A		17	533,390.00	6,194,474.00	17
18	09/16/2016	GZA to perform topographic & bathymetric	A		18	34,540.00	6,229,014.00	18
19	10/26/2016	Admin office add'l server racks and HVAC	A		19	20,439.00	6,249,453.00	19
20	11/16/2016	Computer generated 3D visualization Admin C	A		20	12,000.00	6,261,453.00	20
21	11/16/2016	Technical support for Administrative appeal	A		21	29,150.00	6,290,603.00	21
22	11/29/2016	Add'l waterside subsurface investigation	A		22	49,802.00	6,340,405.00	22
23	12/07/2016	Owner Testing Services for quality control	A		23	159,500.00	6,499,905.00	23
24	12/07/2016	Marine design review service (GZA & Childs	A		24	11,000.00	6,510,905.00	24
25	02/20/2017	Conf Rm Sound System, Security revisions	A		25	20,630.00	6,531,535.00	25
26	03/27/2017	Provide assistance in office systems furniture	A		26	14,500.00	6,546,035.00	26
27	05/08/2017	Changes to security & telecom.	A		27	2,740.00	6,548,775.00	27
28	05/08/2017	Provide marine design services-peer review	A		28	11,000.00	6,559,775.00	28
29	05/25/2017	Initial eelgrass survey - Order of Conditions	A		29	23,430.00	6,583,205.00	29
30	07/25/2017	Evaluate hydrostatic/hydrodynamic load	A		30	7,150.00	6,590,355.00	30
31	07/26/2017	Study bulkhead canopy options	A		31	49,274.00	6,639,629.00	31
32	09/29/2017	Provide D&C for master key & split rm 219	A		32	6,460.00	6,646,089.00	32
33	10/11/2017	Electrical and Data supply for furniture	A		33	7,850.00	6,653,939.00	33
34	11/07/2017	Additional admin svcs during construction	A		34	82,306.00	6,736,245.00	34
35	11/07/2017	Owners testing for Phases 2-4 of waterside	A		35	938,665.00	7,674,910.00	35
36	12/07/2017	Construction Admin Svcs waterside	A		36	739,000.00	8,413,910.00	36
37	01/24/2018	Additional admin svcs during construction	A		37	41,800.00	8,455,710.00	37
38	02/28/2018	Additional admin svcs during construction	A		38	42,100.00	8,497,810.00	38
39	03/04/2018	Additional site/engineering/bid phase svcs	A		39	90,314.00	8,588,124.00	39
40	05/04/2018	Additional admin svcs during construction	A		40	25,000.00	8,613,124.00	40
41	05/16/2018	Additional landscape design svcs SSA GO	A		41	5,720.00	8,618,844.00	41
42	05/31/2018	GZA dynamic pile load testing services	A		42	15,452.00	8,634,296.00	42
43	06/14/2018	Allow vibration monitoring in con admin	A		43	0.00	8,634,296.00	43
44	06/14/2018	Allow additional services in con admin	A		44	0.00	8,634,296.00	44
45	09/25/2018	Design delays and more schematic work	A		45	237,275.00	8,871,571.00	45
46	08/23/2018	Extend schematic design work for terminal	A		46	49,798.00	8,921,369.00	46
47	08/31/2018	Additional time/materials new terminal design	A		47	30,000.00	8,951,369.00	47
48	12/04/2018	Community participation 10/2018 - 01/2019	A		48	75,000.00	9,026,369.00	48
49	02/19/2019	2019 Construction Admin services	A		49	824,280.00	9,850,649.00	49
50	02/19/2019	2019 Construction Admin services GZA	A		50	253,908.00	10,104,557.00	50
						5,063,557.00	100.4%	

Bertaux + Iwerks Architects

Woods Hole Terminal Reconstruction Project

Contract # 09B-2012

Sheet 2

				1	2	3	4	
				ORIGINAL PROJECT AMOUNT	CHANGE ORDER NUMBER	CHANGE ORDER AMOUNT	REVISED PROJECT TOTAL	
	DATE	DESCRIPTION						
1		Balance Forward from Sheet 1		5,041,000.00		5,063,557.00	10,104,557.00	1
2	04/21/2019	Hydrographic beach survey to south slip 2	A		51	50,765.00	10,155,322.00	2 <input checked="" type="checkbox"/>
3	06/28/2019	Study of WH Terminal Building changes	A		52	99,000.00	10,254,322.00	3
4	11/19/2019	Marine engineering changes - Childs & GZA	A		53	301,581.00	10,555,903.00	4
5	12/18/2019	Woods Hole Ferry reconstruction admin	A		54	1,179,600.00	11,735,503.00	5
6			A		55			6
7			A		56			7
8			A		57			8
9			A		58			9
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49			A		98			49
50			A		99			50
						6,694,503.00	132.8%	