



OPINION OF PROBABLE COSTS

PROJECT NO: A102560
PROJECT NAME: CITY OF MILFORD PELHAM STREET - STAIR AND ABUTMENT REPAIR

CLIENT: CITY OF MILFORD
SITE LOCATION: MILFORD, CT

PREPARED BY: JOBA
DATE: 28-Aug-2018
CHECKED BY: EMCZ

ITEM NO.	WORK ITEM DESCRIPTION	OPC PRICE (LUMP SUM)
1	MOBILIZATION AND DEMOBILIZATION	\$15,000.00
2	REPAIR CRACKS & SPALLS IN CONCRETE STAIRS	\$3,000.00
3	REPLACE RAILING	\$113,000.00
4	FILL LOWER FLIGHT OF STAIRS WITH CONCRETE	\$20,000.00
5	FILL VOID BENEATH LOWER PORTION OF STAIRS (EAST SIDE)	\$20,000.00
6	REPAIR OF EXISTING ABUTMENT/BULKHEAD STRUCTURE (FRP SHEET PILES)	\$81,000.00
7	REMOVE EXISTING CONCRETE LANDING AND REPLACE WITH STAIR EXTENSION	\$36,000.00
8	REMOVE AND REPLACE EXISTING TOP CONCRETE LANDING	\$10,000.00
	TOTAL	\$298,000.00
6 ALT	REPAIR OF EXISTING ABUTMENT/BULKHEAD STRUCTURE (STEEL SHEET PILES)	\$89,000.00

NOTE:

COWI HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, EQUIPMENT, OR SERVICES FURNISHED BY OTHERS, OR OVER THE CONTRACTOR'S METHODS OF DETERMINING PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS. COWI'S OPINIONS OF PROBABLE PROJECT COST AND CONSTRUCTION COST PROVIDED FOR HEREIN, ARE MADE ON THE BASIS OF COWI'S BEST JUDGEMENT AS EXPERIENCED AND QUALIFIED PROFESSIONAL ENGINEERS, FAMILIAR WITH THE CONSTRUCTION INDUSTRY; BUT COWI CANNOT AND DOES NOT GUARANTEE THAT PROPOSALS, BIDS OR ACTUAL PROJECT OR CONSTRUCTION COSTS WILL NOT VARY FROM OPINIONS OF PROBABLE COST PREPARED BY COWI.

PROJECT NO.: A102560
DATE: 28-Aug-2018

REFERENCES:

THIS OPINION OF PROBABLE COST IS BASED UPON THE FOLLOWING DRAWINGS

PREPARED BY	DRAWING NAME	DRAWING NO.	REV.	DATE	COPY ATTACHED?
COWI	EXISTING PARTIAL SITE PLAN	1		8-9-18	YES
COWI	PROPOSED PARTIAL SITE PLAN	2		8-9-18	YES
COWI	EXISTING PARTIAL STAIR PLAN	3		8-9-18	YES
COWI	EXISTING SECTION A THROUGH CONCRETE STAIR	4		8-9-18	YES
COWI	EXISTING PARTIAL PLAN OF STAIR AT TOP LANDING	5		8-9-18	YES
COWI	PROPOSED PARTIAL STAIR REPAIR PLAN	6		8-9-18	YES
COWI	PROPOSED PARTIAL STAIR REPAIR SECTION B	7		8-9-18	YES
COWI	PROPOSED CONCRETE STAIR EXTENSION ELEVATION	8		8-9-18	YES
COWI	PROPOSED CONCRETE SPALL REPAIR DETAIL	9		8-9-18	YES
COWI	PROPOSED REPAIR PLAN AT TOP LANDING	10		8-9-18	YES
COWI	PROPOSED REPAIR SECTION AT TOP LANDING	11		8-9-18	YES
COWI	PROPOSED REPAIR DETAIL 1 AT TOP LANDING	12		8-9-18	YES
COWI	PROPOSED CRACK REPAIR DETAIL	13		8-9-18	YES
COWI	PROPOSED PARTIAL TREAD REPAIR PLAN	14		8-9-18	YES
COWI	PROPOSED STAIR TREAD REPAIR DETAIL	15		8-9-18	YES

PROJECT NO.: A102560
DATE: 28-Aug-2018

ASSUMPTIONS:

- 1 CURRENCY IN U.S. DOLLARS
- 2 COSTS ARE BASED ON FY 2018\$
- 3 OPC IS BASED ON MATERIAL PRICING AND AVAILABILITY AS OF THE DATE OF THE OPC. MATERIAL PRICING AND AVAILABILITY AT TIME OF CONSTRUCTION MAY VARY.
- 4 RESOURCES USED FOR PRICING:
 - a PREVAILING WAGE RATES FOR MILFORD CONNECTICUT
 - b R.S.MEANS HEAVY CONSTRUCTION COST DATA
- 5 EXCLUDED ITEMS:
 - a DREDGING
 - b CONTAMINATED MATERIALS HANDLING AND DISPOSAL
 - c ELECTRICAL WORK
 - d MECHANICAL WORK
 - e ITEMS NOT SPECIFICALLY LISTED IN "REFERENCES" SECTION OF THIS OPC.
 - f ENGINEERING AND CONSTRUCTION OVERSIGHT
 - g CONSTRUCTION MANAGEMENT FEES
 - h PERMIT ACQUISITION AND PERMIT FEES
 - i ARCHITECTURAL FINISHES
- 6 ACCESS FOR WORK IS FROM UPLAND-BASED EQUIPMENT WITH UPLAND STAGING ADJACENT TO THE WORK AREA. ASSUME THAT A HYDRAULIC EXCAVATOR WILL BE USED AND CAN ACCESS THE SITE BY TRAVELING ALONG THE BEACH FROM AN ACCESS POINT ON PLATT STREET ROUGHLY 600 FEET TO THE EAST OF THE SITE (SEE AERIAL MARK-UP).
- 7 IT IS ASSUMED THAT THERE WILL BE UNRESTRICTED ACCESS FOR THE WORK WITH NO DISRUPTIONS.



Pelham St

Prospect St

Platt St

Howard



SITE

ACCESS POINT

Google Earth

© 2018 Google

300 ft



PROJECT NO.: A102560
DATE: 28-Aug-2018

QUANTITIES

REPAIR ITEM	QUANTITY	UNITS	NOTES
RAILING	101.3	LF	both sides
CRACKS	6.0	LF	diagnal cracks on east and west sides of lower flight
CONCRETE FILL BENEATH LOWER FLIGHT OF STAIRS	3.6	CY	lower flight of stairs are hollow
CONCRETE FILL -VOID UNDER LANDING	3.4	CY	void under large landing
CONCRETE FILL BULKHEAD REPAIR	17.7	CY	voids behind bulkhead/abutment, and between old and new sheets
AREA OF CONCRETE FOR LARGE SPALL REPAIR	1.50	SF	size of spall at bottom of stairway
TOTAL AREA OF CONCRETE FOR 3 SMALL SPALL REPAIRS	1.50	SF	spall on stair tread and 2 spalls on landing at railing posts

PROJECT NO.: A102560
 DATE: 28-Aug-2018

MOBILIZATION AND DEMOBILIZATION

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
MISC. CONSUMABLES	1.0	LS	750.00	750.00	
				0.00	
				0.00	
TOTAL MATERIALS					750.00

LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
COORDINATION	8.0	MH	75.00	600.00	PROJECT MANAGER
MOBILIZATION	0.50	SHIFT	4836.43	2418.22	
SET-UP ON SITE	0.50	SHIFT	4836.43	2418.22	
				0.00	
DEMOBILIZATION	0.50	SHIFT	4836.43	2418.22	
				0.00	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					7854.65

SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
				0.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					0.00

SUBTOTAL PROJECT					8604.65
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			430.23
OVERHEAD		10% PERCENT			903.49
PROFIT		5% PERCENT			496.92
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			1043.53
CONSTRUCTION CONTINGENCY		25% PERCENT			2869.70
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$14,348.52

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REPAIR CRACKS & SPALLS IN CONCRETE STAIRS

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
				0.00	
				0.00	
				0.00	

TOTAL MATERIALS 0.00

LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
				0.00	
				0.00	
				0.00	

TOTAL LABOR & EQUIPMENT 0.00

SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
SPALL REPAIR	3.00	SF	479.75	1439.25	
CRACK REPAIR	6	LF	21.82	130.91	
				0.00	
				0.00	

TOTAL SUBCONTRACTORS 1570.16

SUBTOTAL PROJECT 1570.16

ESCALATION		0%	PERCENT		0.00
GENERAL CONDITIONS		5%	PERCENT		78.51
OVERHEAD		10%	PERCENT		164.87
PROFIT		5%	PERCENT		90.68
SALES TAX		0.000%	PERCENT		0.00
DESIGN AND RESIDENT ENGINEERING		0%	PERCENT		0.00
CONSTRUCTION MANAGEMENT		0%	PERCENT		0.00
DESIGN CONTINGENCY		10%	PERCENT		190.42
CONSTRUCTION CONTINGENCY		25%	PERCENT		523.66
OVERALL PROJECT CONTINGENCY		0%	PERCENT		0.00

TOTAL OPC \$2,618.30

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REPLACE RAILING

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
				0.00	
				0.00	
				0.00	
TOTAL MATERIALS					0.00
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
REMOVE & DISPOSE OF EXISTING RAILING	0.5	SHIFT	4836.43	2418.22	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					2418.22
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
RAILING	101.30	LF	643.36	65169.50	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					65169.50
SUBTOTAL PROJECT					67587.72
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			3379.39
OVERHEAD		10% PERCENT			7096.71
PROFIT		5% PERCENT			3903.19
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			8196.70
CONSTRUCTION CONTINGENCY		25% PERCENT			22540.93
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$112,704.63

PROJECT NO.: A102560
 DATE: 28-Aug-2018

FILL LOWER FLIGHT OF STAIRS WITH CONCRETE

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
FORMWORK	1.0	LS	250.00	250.00	
CONCRETE	4.0	CY	150.00	600.00	
				0.00	
				0.00	
TOTAL MATERIALS					850.00
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
FORM & POUR CONC FILL	2.0	SHIFT	4836.43	9672.86	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					9672.86
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.50	SHIFT	2000.00	1000.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					1000.00
SUBTOTAL PROJECT					11522.86
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			576.14
OVERHEAD		10% PERCENT			1209.90
PROFIT		5% PERCENT			665.45
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			1397.44
CONSTRUCTION CONTINGENCY		25% PERCENT			3842.95
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$19,214.73

PROJECT NO.: A102560
 DATE: 28-Aug-2018

FILL VOID BENEATH LOWER PORTION OF STAIRS (EAST SIDE)

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
FORMWORK	1.0	LS	250.00	250.00	
CONCRETE	4.0	CY	150.00	600.00	
				0.00	
				0.00	
TOTAL MATERIALS					850.00
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
FORM & POUR CONC FILL	2.0	SHIFT	4836.43	9672.86	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					9672.86
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.50	SHIFT	2000.00	1000.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					1000.00
SUBTOTAL PROJECT					11522.86
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			576.14
OVERHEAD		10% PERCENT			1209.90
PROFIT		5% PERCENT			665.45
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			1397.44
CONSTRUCTION CONTINGENCY		25% PERCENT			3842.95
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$19,214.73

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REPAIR OF EXISTING ABUTMENT/BULKHEAD STRUCTURE (FRP SHEET PILES)

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
FRP SHEET PILES	460.0	SF	25.00	11500.00	ASSUME 10' L
ANCHOR BOLT ASSEMBLIES	12.0	EA	35.00	420.00	
CONCRETE FILL	18.0	CY	150.00	2700.00	
				0.00	
				0.00	
				0.00	
TOTAL MATERIALS					14620.00
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
EXCAVATE, SET & INSTALL SHEETS, BACKFILL	3.0	SHIFT	6575.02	19725.07	
ANCHOR TOPS OF SHEETS	1.0	SHIFT	6575.02	6575.02	
PLACE CONCRETE FILL	1.0	SHIFT	6575.02	6575.02	
				0.00	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					32875.11
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.50	SHIFT	2000.00	1000.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					1000.00
SUBTOTAL PROJECT					48495.11
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			2424.76
OVERHEAD		10% PERCENT			5091.99
PROFIT		5% PERCENT			2800.59
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			5881.24
CONSTRUCTION CONTINGENCY		25% PERCENT			16173.42
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$80,867.11

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REMOVE EXISTING CONCRETE LANDING AND REPLACE WITH STAIR EXTENSION

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE FORMS	58.7	SFCA	5.00	293.63	
REINFORCING STEEL	400.0	LB	2.25	900.00	
CONCRETE	2.0	CY	150.00	300.00	
				0.00	
				0.00	
				0.00	
TOTAL MATERIALS					1493.63
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
DEMOLISH & DISPOSE OF EXISTING CONCRETE PAD	1.0	SHIFT	4836.43	4836.43	
EXCAVATION	0.5	SHIFT	4836.43	2418.22	
F, R, P NEW EXTENSION	1.5	SHIFT	4836.43	7254.65	
STRIP FORMS & BACKFILL	1.0	SHIFT	4836.43	4836.43	
				0.00	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					19345.73
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.25	SHIFT	2000.00	500.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					500.00
SUBTOTAL PROJECT					21339.35
ESCALATION		0%	PERCENT		0.00
GENERAL CONDITIONS		5%	PERCENT		1066.97
OVERHEAD		10%	PERCENT		2240.63
PROFIT		5%	PERCENT		1232.35
SALES TAX		0.000%	PERCENT		0.00
DESIGN AND RESIDENT ENGINEERING		0%	PERCENT		0.00
CONSTRUCTION MANAGEMENT		0%	PERCENT		0.00
DESIGN CONTINGENCY		10%	PERCENT		2587.93
CONSTRUCTION CONTINGENCY		25%	PERCENT		7116.81
OVERALL PROJECT CONTINGENCY		0%	PERCENT		0.00
TOTAL OPC					\$35,584.04

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REMOVE AND REPLACE EXISTING TOP CONCRETE LANDING

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE FORMS	10.5	SFCA	5.00	52.50	
REINFORCING STEEL	200.0	LB	2.25	450.00	
CONCRETE	1.0	CY	150.00	150.00	
				0.00	
				0.00	
				0.00	
TOTAL MATERIALS					652.50
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
DEMOLISH & DISPOSE OF EXISTING CONCRETE PAD	0.25	SHIFT	4836.43	1209.11	
F, R, P NEW EXTENSION STRIP FORMS	0.50	SHIFT	4836.43	2418.22	
	0.25	SHIFT	4836.43	1209.11	
				0.00	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					4836.43
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.25	SHIFT	2000.00	500.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					500.00
SUBTOTAL PROJECT					5988.93
ESCALATION		0% PERCENT			0.00
GENERAL CONDITIONS		5% PERCENT			299.45
OVERHEAD		10% PERCENT			628.84
PROFIT		5% PERCENT			345.86
SALES TAX		0.000% PERCENT			0.00
DESIGN AND RESIDENT ENGINEERING		0% PERCENT			0.00
CONSTRUCTION MANAGEMENT		0% PERCENT			0.00
DESIGN CONTINGENCY		10% PERCENT			726.31
CONSTRUCTION CONTINGENCY		25% PERCENT			1997.35
OVERALL PROJECT CONTINGENCY		0% PERCENT			0.00
TOTAL OPC					\$9,986.73

PROJECT NO.: A102560
 DATE: 28-Aug-2018

REPAIR OF EXISTING ABUTMENT/BULKHEAD STRUCTURE (STEEL SHEET PILES)

OPINION OF PROBABLE COSTS

MATERIALS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
STEEL SHEET PILES	10299.4	LB	1.00	10299.40	ASSUME AZ 18-700 10' L
SSP COATING	611.8	SF	4.00	2447.20	
ANCHOR BOLT ASSEMBLIES	12.0	EA	35.00	420.00	
CONCRETE FILL	18.0	CY	150.00	2700.00	
				0.00	
				0.00	
				0.00	
TOTAL MATERIALS					15866.60
LABOR & EQUIPMENT	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
EXCAVATE, SET & INSTALL SHEETS, BACKFILL	3.5	SHIFT	6575.02	23012.58	
ANCHOR TOPS OF SHEETS	1.0	SHIFT	6575.02	6575.02	
PLACE CONCRETE FILL	1.0	SHIFT	6575.02	6575.02	
				0.00	
				0.00	
				0.00	
TOTAL LABOR & EQUIPMENT					36162.62
SUBCONTRACTORS	QUANTITY	UNITS	UNIT \$	EXTENDED \$	COMMENTS
CONCRETE PUMP	0.50	SHIFT	2000.00	1000.00	
				0.00	
				0.00	
TOTAL SUBCONTRACTORS					1000.00
SUBTOTAL PROJECT					53029.22
ESCALATION		0%	PERCENT		0.00
GENERAL CONDITIONS		5%	PERCENT		2651.46
OVERHEAD		10%	PERCENT		5568.07
PROFIT		5%	PERCENT		3062.44
SALES TAX		0.000%	PERCENT		0.00
DESIGN AND RESIDENT ENGINEERING		0%	PERCENT		0.00
CONSTRUCTION MANAGEMENT		0%	PERCENT		0.00
DESIGN CONTINGENCY		10%	PERCENT		6431.12
CONSTRUCTION CONTINGENCY		25%	PERCENT		17685.58
OVERALL PROJECT CONTINGENCY		0%	PERCENT		0.00
TOTAL OPC					\$88,427.88

PROJECT NO.: A102560
 DATE: 28-Aug-2018

LABOR AND EQUIPMENT RATE BREAKDOWN

CREW 1

		FULL COST	A	B	A+B
		W / BURDEN	DIRECT WAGES*	FRINGES	
LABOR					
	DOCKBUILDER FOREMAN	98.41	39.12	25.34	64.46
	DOCKBUILDER	86.23	32.60	25.34	57.94
	DOCKBUILDER	86.23	32.60	25.34	57.94
	DOCKBUILDER	86.23	32.60	25.34	57.94
	LABORER	76.23	30.05	20.10	50.15
	LABORER	76.23	30.05	20.10	50.15
		0.00			0.00
EQUIPMENT					
	COMPRESSOR	20.00			
	UTILITY TRUCK	25.00			
	MISC	50.00			
TOTAL HOURLY RATE		604.55			
TOTAL SHIFT RATE		4836.43 BASED ON EIGHT (8) HOUR SHIFT			

PROJECT NO.: A102560
 DATE: 28-Aug-2018

LABOR AND EQUIPMENT RATE BREAKDOWN

CREW 2 (WITH EXCAVATOR)

		FULL COST	A	B	A+B
		W / BURDEN	DIRECT WAGES*	FRINGES	
LABOR					
	DOCKBUILDER FOREMAN	98.41	39.12	25.34	64.46
	DOCKBUILDER	86.23	32.60	25.34	57.94
	DOCKBUILDER	86.23	32.60	25.34	57.94
	DOCKBUILDER	86.23	32.60	25.34	57.94
	LABORER	76.23	30.05	20.10	50.15
	LABORER	76.23	30.05	20.10	50.15
	OPERATOR - EXCAVATOR	97.32	39.23	24.05	63.28
EQUIPMENT					
	EXCAVATOR	120.00			
	COMPRESSOR	20.00			
	UTILITY TRUCK	25.00			
	MISC	50.00			
TOTAL HOURLY RATE		821.88			
TOTAL SHIFT RATE		6575.02 BASED ON EIGHT (8) HOUR SHIFT			