

**Vendor** Penobscoot Company  
**Project** Phase 3 Hangar 4  
 AIP #3-23-0056-024-2016  
**Project No.** 391128.00  
**Invoice** 023  
**Date** May 12, 2020  
**For Work Completed Through** May 12, 2020  
**Total** \$13,903.68

| <b>Acc #</b>                   | <b>Share</b> | <b>%</b> | <b>Amount</b> | <b>Class</b>  |
|--------------------------------|--------------|----------|---------------|---------------|
| 50799-f FAA MAP 024            | Federal      | 90%      | \$12,513.31   | CIP 2017      |
| 50767                          | State        | 5%       | \$695.18      | CIP 2017      |
| 50581                          | Local        | 5%       | \$695.19      | CIP 2017      |
| 50799-f FAA MAP 024            | Federal      |          | (\$12,513.31) | Fixed Assets  |
| 50767                          | State        |          | (\$695.18)    | Fixed Assets  |
| 50581                          | Local        |          | (\$695.19)    | Fixed Assets  |
| 13500 Construction in Progress |              |          | \$13,903.68   | Balance Sheet |

**Approved**

**Date**

May 12, 2020



Deputy Director

Department Head

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
**PERIODIC COST ESTIMATE**

Form Approved  
Budget Bureau No. 04-R0008

PAGE 1 OF 2 PAGES

1. SPONSOR'S NAME AND ADDRESS

Midcoast Regional Redevelopment Authority  
15 Terminal Road, Suite 200  
Brunswick, ME 04011

5. PROJECT NO.

**AIP No. 3-23-0056-031-2018**

6. ESTIMATE NO.

023A

2. OFFICIAL NAME AND LOCATION OF AIRPORT

Brunswick Executive Airport  
Brunswick, ME 04011

7. PERIOD ENDING

5/12/2020

8. DATE ESTIMATE PREPARED

5/12/2020

3. CONTRACTOR'S NAME AND ADDRESS

**Penobscot Company, Inc.**  
519 West Street  
Rockport, ME 04856

9. PERCENT OF PHYSICAL COMPLETION

100%

10. SPONSOR'S CONTRACT NO.

**391128**

4. DESCRIPTION OF WORK

**Hangar Improvements, Phase III – Improve Hangar 4 & End Area Alterations**

11. AMOUNT OF CONTRACT

**\$305,184.49 (as of CO#13)**

12. COMPLETION TIME *(Indicate whether work or calendar days)*

13. DATES

A. WORK TO START

06/26/17

B. WORK STARTED

06/26/17

C. COMPLETION DUE

5/12/2020

D. EST. OR ACT. COMP.

5/12/2020

14. NO OF DAYS CONTRACTOR IS:

A. AHEAD

0

B. IN ARREARS

0

15. BREAKDOWN OF PERIODIC COST ESTIMATE *(If additional space is required, use continuation sheet, FAA Form 5100-9)*

| ITEM NO.<br>(a)   | DESCRIPTION OF ITEM<br>(b) | LATEST REVISED DETAILED ESTIMATE |             |                   |               | WORK PERFORMED TO DATE |               |                |
|---|----------------------------|----------------------------------|-------------|-------------------|---------------|------------------------|---------------|----------------|
|   |                            | QUANTITY<br>(c)                  | UNIT<br>(d) | UNIT PRICE<br>(e) | AMOUNT<br>(f) | QUANTITY<br>(g)        | AMOUNT<br>(h) | PERCENT<br>(i) |
| <b>SEE ATTACHED SPREADSHEET(S) FOR DETAILED BREAKDOWN</b> |                            |                                  |             |                   |               |                        |               |                |
| <b>TOTAL WORK PERFORMED TO DATE</b>                       |                            |                                  |             |                   |               | \$305,184.49           | 100%          |                |
| <b>STORED MATERIALS</b>                                   |                            |                                  |             |                   |               |                        |               |                |
| <b>SUBTOTAL</b>   |                            |                                  |             |                   |               | \$305,184.49           | 100%          |                |
| <b>LESS %RETAINAGE</b>                                    |                            |                                  |             |                   |               |                        |               |                |
| <b>LESS PUNCH LIST</b>                                    |                            |                                  |             |                   |               |                        |               |                |
| <b>SUBTOTAL</b>   |                            |                                  |             |                   |               | \$305,184.49           | 90%           |                |
| <b>LESS PREVIOUS PAYMENTS</b>                             |                            |                                  |             |                   |               | \$291,280.81           | 86%           |                |
| <b>AMOUNT DUE</b>   |                            |                                  |             |                   |               | \$13,903.68            | 4%            |                |

16. CERTIFICATION ON CONTRACTOR - I HEREBY CERTIFY that the work performed and the materials supplied to date, as shown on this periodic cost estimate, represent the actual value of accomplishment under the terms of this contract in conformity with approved plans and specifications; that the quantities shown were properly determined and are correct; and that there has been full compliance with all labor provisions included in the contract identified above, and in all subcontracts made under that contract.

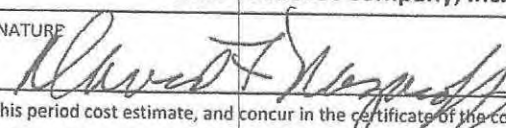
DATE May 12, 2020

CONTRACTOR'S NAME

**The Penobscot Company, Inc.**

BY TITLE  
David F. Nazaroff, President

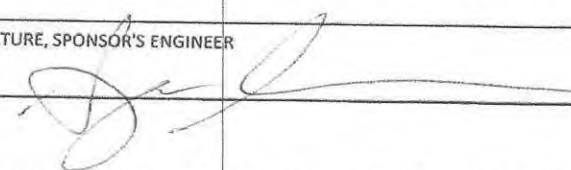
SIGNATURE



17. CONCURRENCE AND CERTIFICATION OF SPONSOR'S ENGINEER - I have examined this period cost estimate, and concur in the certificate of the contractor and certify that the materials used and the construction accomplished meet the requirements of the plans and specifications, as evidenced by certified test and inspection reports included in the project records.

DATE 5/12/2020

SIGNATURE, SPONSOR'S ENGINEER



DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 PERIODIC COST ESTIMATE

Estimate No. 23A

Date: 5/12/2020

**Contractor:** The Penobscot Company, Inc.  
**Airport:** Brunswick Executive Airport  
**Client:** Midcoast Regional Redevelopment Authority  
**Project:** Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
 Fire Suppression  
 AIP No. 3-23-0056-031-2018

Hoyle, Tanner Job No. 391128

| Base Bid Items                 | Designation  | Quantity |        | Amount per Contract Award |              | Amount This Pay Request |             | Amount Previously Requested |              | Total Requested To Date |              |                     |
|--------------------------------|--|----------|--------|---------------------------|--------------|-------------------------|-------------|-----------------------------|--------------|-------------------------|--------------|---------------------|
|                                |  | Unit     | Amount | Per Unit                  | Amount       | Quantity                | Amount      | Quantity                    | Amount       | Quantity                | Amount       |                     |
| H-001-9A                       | Recommission Foam System (AIP 031-2018) (NEW ITEM CO #7, INCREASED CO #9, #12) | LS       | 1      | \$301,274.49              | \$301,274.49 | 0.05                    | \$13,903.68 | 0.95                        | \$287,370.81 | 1.00                    | \$301,274.49 |                     |
| H-001-9B                       | Recommission Foam System, Ineligible Work (NEW ITEM CO #9, INCREASED CO #12)   | LS       | 1      | \$3,910.00                | \$3,910.00   | 0.00                    | \$0.00      | 1.00                        | \$3,910.00   | 1.00                    | \$3,910.00   |                     |
| <b>Total Pay Items AIP-031</b> |  |          |        |                           |              | <b>\$305,184.49</b>     | 5%          | <b>\$13,903.68</b>          | 95%          | <b>\$291,280.81</b>     | 100%         | <b>\$305,184.49</b> |

|                        |              |
|------------------------|--------------|
| 10% retainage          | \$0.00       |
| subtotal               | \$305,184.49 |
| less previous payments | \$291,280.81 |
| amount due             | \$13,903.68  |

**REPORT OF CERTIFIED DBE CONTRACTORS USED ON FAA ASSISTED CONTRACTS**

Name of Airport: Brunswick Executive Airport  
 Name of Project: Hangar Improvements, Phase III, Improve Hangar 4 & End Area Alterations - Foam Fire System  
 Hoyle, Tanner Project #: 391128 AIP Grant #: 3-23-0056-031-2018  
 Contractor's PCE #: 23A Total Anticipated DBE %: 0

DBE Firm: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/ZIP: \_\_\_\_\_  
 Telephone Number: \_\_\_\_\_

Type of work Performed and NAICS, if known: \_\_\_\_\_

Dollar Amount of Work to Date: \$                     -  
 Dollar Amount of Work Previously Reported: \$                     -  
 Dollar Amount of Work this PCE: \$                     -

Disadvantaged Group (check one)

|  |   |  |   |
|--|---|--|---|
| Black American<br><input type="checkbox"/>         | Hispanic American<br><input type="checkbox"/> | Native American<br><input type="checkbox"/>                      | Subcontinent Asian American<br><input type="checkbox"/> |
| Male <input type="checkbox"/>                      | Male <input type="checkbox"/>                 | Male <input type="checkbox"/>                                    | Male <input type="checkbox"/>                           |
| Female <input type="checkbox"/>                    | Female <input type="checkbox"/>               | Female <input type="checkbox"/>                                  | Female <input type="checkbox"/>                         |
| Asian Pacific American<br><input type="checkbox"/> | Non-Minority<br><input type="checkbox"/>      | Other (not of any group listed here)<br><input type="checkbox"/> |   |
| Male <input type="checkbox"/>                      | Male <input type="checkbox"/>                 | Male <input type="checkbox"/>                                    | <input type="checkbox"/>                                |
| Female <input type="checkbox"/>                    | Female <input type="checkbox"/>               | Female <input type="checkbox"/>                                  | <input type="checkbox"/>                                |

I certify that the above information is correct:

Signature of DBE Firm \_\_\_\_\_

Date \_\_\_\_\_

*Nancy McKean*

Signature of General Contractor or Consultant \_\_\_\_\_

12-May-20  
Date

GENERAL CONTRACTOR'S FINAL RELEASE  
AND  
DISCHARGE OF LIEN

The Penobscot Company, Inc. (hereafter called the "Contractor"), in consideration of Thirteen Thousand Nine Hundred Three Dollars and 68/100 (\$13,903.68) to be paid by Midcoast Regional Redevelopment Authority, Brunswick Executive Airport, Brunswick, ME, from any and all liens, claims, causes of action, liabilities and other obligations with respect to payment for any and all labor, work, services and materials furnished, performed or supplied to or in connection with the construction project known as Hangar Improvements, Phase III – Improve Hangar 4 & End Area Alterations – Recommission Foam Water System AIP 3-23-0056-031-2018 (hereinafter called the "Project"), through the date of May 12, 2020.

Contractor acknowledges that receipt of this payment will constitute full and final payment.

Contractor further covenants and represents that all of the subcontractors, suppliers, mechanics, materialmen and laborers engaged by him have been paid in full or shall be immediately paid in full from the proceeds of this current payment for all work done and/or materials furnished to the Project. The contractor hereby agrees to indemnify, defend and hold harmless Midcoast Regional Redevelopment Authority, Brunswick Executive Airport, Brunswick, ME from any and all claims by any person or entity based upon work done or materials furnished in connection with the Premises by the Contractor and/or his subcontractors, suppliers, mechanics, materialmen and laborers.

The undersigned represents that he is authorized by all corporate or other action necessary to execute and deliver this release.

IN WITNESS WHEREOF, Contractor has executed this instrument this 12th day of May 2020

CONTRACTOR:

By: David F. Nazaroff Title: President  
David F. Nazaroff

Notarized: Nancy McKeon My commission Expires: \_\_\_\_\_



**NANCY McKEON**  
NOTARY PUBLIC  
State of Maine  
My Commission Expires May 19, 2022

**Vendor** Penobscot Company, Inc.  
**Project** Phase 3 Hangar 4  
 AIP #3-23-0056-024-2016  
**Project No.** 391128.00  
**Invoice** 019  
**Date** July 18, 2019  
**For Work Completed Through** June 30, 2019  
**Total** \$148,651.63

| <i>Acc #</i>                   | <i>Share</i> | <i>%</i> | <i>Amount</i>  | <i>Class</i>  |
|--------------------------------|--------------|----------|----------------|---------------|
| 50799-f FAA MAP 024            | Federal      | 90%      | \$133,786.47   | CIP 2017      |
| 50767                          | State        | 5%       | \$7,432.58     | CIP 2017      |
| 50581                          | Local        | 5%       | \$7,432.58     | CIP 2017      |
| 50799-f FAA MAP 024            | Federal      |          | (\$133,786.47) | Fixed Assets  |
| 50767                          | State        |          | (\$7,432.58)   | Fixed Assets  |
| 50581                          | Local        |          | (\$7,432.58)   | Fixed Assets  |
| 13500 Construction in Progress |              |          | \$148,651.63   | Balance Sheet |

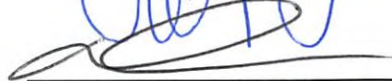
**Approved**

**Date**

July 18, 2019



Deputy Director



Department Head

DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
**PERIODIC COST ESTIMATE**

Form Approved  
 Budget Bureau No. 04-R0008

PAGE 1 OF 2 PAGES

1. SPONSOR'S NAME AND ADDRESS

Midcoast Regional Redevelopment Authority  
 15 Terminal Road, Suite 200  
 Brunswick, ME 04011

5. PROJECT NO.

AIP No. 3-23-0056-024-2016

6. ESTIMATE NO.

019

2. OFFICIAL NAME AND LOCATION OF AIRPORT

Brunswick Executive Airport  
 Brunswick, ME 04011

7. PERIOD ENDING

06/01/2019

8. DATE ESTIMATE PREPARED

07/17/2019

3. CONTRACTOR'S NAME AND ADDRESS

Penobscot Company, Inc.  
 519 West Street  
 Rockport, ME 04856

9. PERCENT OF PHYSICAL COMPLETION

100%

10. SPONSOR'S CONTRACT NO.

391128

4. DESCRIPTION OF WORK

Hangar Improvements, Phase III – Improve Hangar 4 & End Area Alterations

11. AMOUNT OF CONTRACT

\$2,719,739.67 (as of CO#11)

12. COMPLETION TIME (Indicate whether work or calendar days)

13. DATES

A. WORK TO START

06/26/17

B. WORK STARTED

06/26/17

C. COMPLETION DUE

11/10/2018

D. EST. OR ACT. COMP.

08/03/2019

A. AHEAD

0

B. IN ARREARS

0

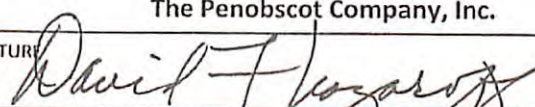
14. NO OF DAYS CONTRACTOR IS:

15. BREAKDOWN OF PERIODIC COST ESTIMATE (If additional space is required, use continuation sheet, FAA Form 5100-9)


| ITEM NO.<br>(a)                                    | DESCRIPTION OF ITEM<br>(b) | LATEST REVISED DETAILED ESTIMATE |             |                   |               | WORK PERFORMED TO DATE |               |                |
|--|----------------------------|----------------------------------|-------------|-------------------|---------------|------------------------|---------------|----------------|
|  |                            | QUANTITY<br>(c)                  | UNIT<br>(d) | UNIT PRICE<br>(e) | AMOUNT<br>(f) | QUANTITY<br>(g)        | AMOUNT<br>(h) | PERCENT<br>(i) |
| SEE ATTACHED SPREADSHEET(S) FOR DETAILED BREAKDOWN |                            |                                  |             |                   |               |                        |               |                |

| SUMMARY OF PERIODIC COST ESTIMATE<br>PAYMENT ITEMS |  |                              |      |
|--|--|------------------------------|------|
|  |  | TOTAL WORK PERFORMED TO DATE | 100% |
|  |  | STORED MATERIALS             |      |
|  |  | SUBTOTAL                     | 100% |
|  |  | LESS 5 %RETAINAGE            | 5%   |
|  |  | LESS PUNCH LIST              |      |
|  |  | SUBTOTAL                     | 95%  |
|  |  | LESS PREVIOUS PAYMENTS       | 90%  |
|  |  | AMOUNT DUE                   | 5%   |

16. CERTIFICATION ON CONTRACTOR - I HEREBY CERTIFY that the work performed and the materials supplied to date, as shown on this periodic cost estimate, represent the actual value of accomplishment under the terms of this contract in conformity with approved plans and specifications; that the quantities shown were properly determined and are correct; and that there has been full compliance with all labor provisions included in the contract identified above, and in all subcontracts made under that contract.

|                                    |   |
|------------------------------------|---|
| DATE July 17, 2019                 | CONTRACTOR'S NAME<br>The Penobscot Company, Inc.  |
| BY<br>David F. NAZAROFF, President | SIGNATURE<br> |

17. CONCURRENCE AND CERTIFICATION OF SPONSOR'S ENGINEER - I have examined this period cost estimate, and concur in the certificate of the contractor and certify that the materials used and the construction accomplished meet the requirements of the plans and specifications, as evidenced by certified test and inspection reports included in the project records.

|                 |   |
|-----------------|---|
| DATE<br>7/18/19 | SIGNATURE, SPONSOR'S ENGINEER<br> |
|-----------------|---|

DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 PERIODIC COST ESTIMATE

Estimate No. 18

Date: 5/3/2019

Contractor: The Penobscot Company, Inc.  
 Airport: Brunswick Executive Airport  
 Client: Midcoast Regional Redevelopment Authority  
 Project: Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
 AIP No. 3-23-0056-024-2016

Hoyle, Tanner Job No. 391128

| Base Bid Items | Designation   | Quantity |        | Amount per Contract Award      |                | Amount This Pay Request |                       | Amount Previously Requested |                    | Total Requested To Date |                       |             |                       |
|----------------|---|----------|--------|--------------------------------|----------------|-------------------------|-----------------------|-----------------------------|--------------------|-------------------------|-----------------------|-------------|-----------------------|
|                |   | Unit     | Amount | Per Unit                       | Amount         | Quantity                | Amount                | Quantity                    | Amount             | Quantity                | Amount                |             |                       |
| G-001-1        | Mobilization (INCREASED CO #1)  | LS       | 1      | \$73,419.00                    | \$73,419.00    | 0.00                    | \$0.00                | 1.00                        | \$73,419.00        | 1.00                    | \$73,419.00           |             |                       |
| G-001-2        | MMP Compliance (DECREASED CO #1, INCREASED CO #4)                     | LS       | 1      | \$16,515.25                    | \$16,515.25    | 0.00                    | \$0.00                | 1.00                        | \$16,515.25        | 1.00                    | \$16,515.25           |             |                       |
| G-001-3        | AsBuilt Survey (ELIMINATED CO #11)                                    | LS       | 0      | \$5,200.00                     | \$0.00         | 0.00                    | \$0.00                | 0.00                        | \$0.00             | 0.00                    | \$0.00                |             |                       |
| H-001-1        | Demolish Building Addition (INCREASED CO #1, #2, #3, #4, #6)          | LS       | 1      | \$277,399.90                   | \$277,399.90   | 0.00                    | \$0.00                | 1.00                        | \$277,399.90       | 1.00                    | \$277,399.90          |             |                       |
| H-001-2        | Building Installation (DECREASED CO #1, #5, INCREASED #2, #3, #4, #6) | LS       | 1      | \$1,832,654.52                 | \$1,832,654.52 | 0.00                    | \$0.00                | 1.00                        | \$1,832,654.52     | 1.00                    | \$1,832,654.52        |             |                       |
| H-001-2A       | Building Installation CREDIT (NEW ITEM CO #8)                         | LS       | 1      | (\$1,830.00)                   | (\$1,830.00)   | 0.00                    | \$0.00                | 1.00                        | (\$1,830.00)       | 1.00                    | (\$1,830.00)          |             |                       |
| H-001-3        | Repair Concrete Floor (DECREASED CO #1)                               | LS       | 1      | \$6,240.00                     | \$6,240.00     | 0.00                    | \$0.00                | 1.00                        | \$6,240.00         | 1.00                    | \$6,240.00            |             |                       |
| H-001-4        | Interior Wall and Door Upgrades (INCREASED CO #1, #6, #8)             | LS       | 1      | \$150,157.89                   | \$150,157.89   | 0.00                    | \$0.00                | 1.00                        | \$150,157.89       | 1.00                    | \$150,157.89          |             |                       |
| H-001-5        | Roof Drain Roof Repairs (INCREASED CO #1)                             | LS       | 1      | \$14,071.00                    | \$14,071.00    | 0.00                    | \$0.00                | 1.00                        | \$14,071.00        | 1.00                    | \$14,071.00           |             |                       |
| H-001-6        | Abandoned Heating Unit Removals (INCREASED CO #1)                     | LS       | 1      | \$19,500.00                    | \$19,500.00    | 0.00                    | \$0.00                | 1.00                        | \$19,500.00        | 1.00                    | \$19,500.00           |             |                       |
| H-001-7        | Replace Tunnel Exhaust Fan (DECREASED CO #1)                          | LS       | 1      | \$3,526.00                     | \$3,526.00     | 0.00                    | \$0.00                | 1.00                        | \$3,526.00         | 1.00                    | \$3,526.00            |             |                       |
| H-001-8        | Modify Eyewash/Shower and Condensing Unit (INCREASED CO #3)           | LS       | 1      | \$47,915.00                    | \$47,915.00    | 0.00                    | \$0.00                | 1.00                        | \$47,915.00        | 1.00                    | \$47,915.00           |             |                       |
| H-001-9        | Recommission Foam Systems   | LS       | 1      | \$76,960.00                    | \$76,960.00    | 0.00                    | \$0.00                | 1.00                        | \$76,960.00        | 1.00                    | \$76,960.00           |             |                       |
| H-001-10       | Allowances Associated with the Foam-Water System (DECREASED CO #11)   | Allow    | 1      | \$14,430.00                    | \$14,430.00    | 0.00                    | \$0.00                | 1.00                        | \$14,430.00        | 1.00                    | \$14,430.00           |             |                       |
| H-001-11       | Paint Exterior Siding (INCREASED CO #5)                               | LS       | 1      | \$17,298.00                    | \$17,298.00    | 0.00                    | \$0.00                | 1.00                        | \$17,298.00        | 1.00                    | \$17,298.00           |             |                       |
| H-001-12       | Paint Existing Siding (NEW ITEM CO #1)                                | LS       | 1      | \$69,786.00                    | \$69,786.00    | 0.00                    | \$0.00                | 1.00                        | \$69,786.00        | 1.00                    | \$69,786.00           |             |                       |
| H-001-13       | Exhaust Stack Modification (NEW ITEM CO #2, INCREASED CO #5)          | LS       | 1      | \$14,824.00                    | \$14,824.00    | 0.00                    | \$0.00                | 1.00                        | \$14,824.00        | 1.00                    | \$14,824.00           |             |                       |
| H-001-14       | Roof Heating Vents (NEW ITEM CO #5)                                   | LS       | 1      | \$37,871.00                    | \$37,871.00    | 0.00                    | \$0.00                | 1.00                        | \$37,871.00        | 1.00                    | \$37,871.00           |             |                       |
| H-001-15       | Condensate Pump (NEW ITEM CO #10)                                     | LS       | 1      | \$2,801.83                     | \$2,801.83     | 1.00                    | \$2,801.83            | 0.00                        | \$0.00             | 1.00                    | \$2,801.83            |             |                       |
| H-001-16       | Wash Line OS&Y Valve (NEW ITEM CO #10)                                | LS       | 1      | \$10,365.00                    | \$10,365.00    | 1.00                    | \$10,365.00           | 0.00                        | \$0.00             | 1.00                    | \$10,365.00           |             |                       |
| P-152-1        | Unclassified Excavation   | CY       | 30     | \$36.40                        | \$1,092.00     | 0.00                    | \$0.00                | 30.00                       | \$1,092.00         | 30.00                   | \$1,092.00            |             |                       |
| P-152-2        | Bituminous Pavement Removal   | SY       | 1,000  | \$5.20                         | \$5,200.00     | 0.00                    | \$0.00                | 1,000.00                    | \$5,200.00         | 1,000.00                | \$5,200.00            |             |                       |
| P-152-3        | Concrete Pavement Removal   | SY       | 320    | \$16.00                        | \$5,120.00     | 0.00                    | \$0.00                | 320.00                      | \$5,120.00         | 320.00                  | \$5,120.00            |             |                       |
| P-156-1        | Inlet Protection (DECREASED CO #1)                                    | EA       | 2      | \$260.00                       | \$520.00       | 0.00                    | \$0.00                | 2.00                        | \$520.00           | 2.00                    | \$520.00              |             |                       |
| P-200-1        | MaineDOT Base Course, Type A  | CY       | 125    | \$36.60                        | \$4,575.00     | 0.00                    | \$0.00                | 125.00                      | \$4,575.00         | 125.00                  | \$4,575.00            |             |                       |
| P-400-1        | MaineDOT HMA, Type 19mm   | TON      | 145    | \$125.00                       | \$18,125.00    | 7.24                    | \$905.00              | 137.76                      | \$17,220.00        | 145.00                  | \$18,125.00           |             |                       |
| P-603-1        | Tack Coat   | GAL      | 100    | \$5.20                         | \$520.00       | 0.00                    | \$0.00                | 100.00                      | \$520.00           | 100.00                  | \$520.00              |             |                       |
| M-001-1        | Pavement Painting   | SF       | 170    | \$3.12                         | \$530.40       | 0.00                    | \$0.00                | 170.00                      | \$530.40           | 170.00                  | \$530.40              |             |                       |
| M-001-2        | Signs   | EA       | 3      | \$26.00                        | \$78.00        | 0.00                    | \$0.00                | 3.00                        | \$78.00            | 3.00                    | \$78.00               |             |                       |
| M-001-3        | Wheel Stops   | EA       | 6      | \$12.48                        | \$74.88        | 0.00                    | \$0.00                | 6.00                        | \$74.88            | 6.00                    | \$74.88               |             |                       |
|                |   |          |        | <b>Total Pay Items AIP-024</b> |                |                         | <b>\$2,719,739.67</b> | <b>1%</b>                   | <b>\$14,071.83</b> | <b>99%</b>              | <b>\$2,705,667.84</b> | <b>100%</b> | <b>\$2,719,739.67</b> |

5% retainage \$135,986.98  
 subtotal \$2,583,752.69  
 less previous payments \$2,435,101.06  
 amount due \$148,651.63



FEDERAL AVIATION ADMINISTRATION  
PERIODIC COST ESTIMATE

Estimate No. 19

Contractor: The Percosco Company, Inc.  
Airport: Brunswick Executive Airport  
Client: Midcoast Regional Redevelopment Authority  
Project: Hangar Improvements, Phase III - Improve Hangar 4 & Enc Area Alterations  
AIP No. 3-23-0056-024-2016

Hoyle, Tanner Job No. 391128

| Base Bid Items | Designation  | Quantity |        | Amount per Contract Award |                | Amount This Pay Request |            | Amount Previously Requested |                | Total Requested To Date |                |
|----------------|--|----------|--------|---------------------------|----------------|-------------------------|------------|-----------------------------|----------------|-------------------------|----------------|
|                |  | Unit     | Amount | Per Unit                  | Amount         | Quantity                | Amount     | Quantity                    | Amount         | Quantity                | Amount         |
| G-001-1        | Mobilization   | LS       | 1      | \$73,419.00               | \$73,419.00    |                         |            | 100%                        | \$73,419.00    | 100%                    | \$73,419.00    |
| G-001-2        | MMP Compliance   | LS       | 1      | \$2,912.00                | \$2,912.00     |                         |            | 100%                        | \$2,912.00     | 100%                    | \$2,912.00     |
| G-001-3        | AsBuilt: Survey  | LS       | 1      | \$5,200.00                | \$5,200.00     | 100%                    | \$5,200.00 | 0%                          | \$0.00         | 100%                    | \$5,200.00     |
| H-001-1        | Demolish Building Addition   | LS       | 1      | \$228,255.00              | \$228,255.00   |                         |            | 100%                        | \$228,255.00   | 100%                    | \$228,255.00   |
| H-001-2        | Building Installation  | LS       | 1      | \$1,818,438.52            | \$1,818,438.52 |                         |            | 100%                        | \$1,818,438.52 | 100%                    | \$1,818,438.52 |
| H-001-3        | Repair Concrete Floor  | LS       | 1      | \$6,240.00                | \$6,240.00     |                         |            | 100%                        | \$6,240.00     | 100%                    | \$6,240.00     |
| H-001-4        | Interior Wall and Door Upgrades  | LS       | 1      | \$129,742.00              | \$129,742.00   |                         |            | 100%                        | \$129,742.00   | 100%                    | \$129,742.00   |
| H-001-5        | Roof Drain Roof Repairs  | LS       | 1      | \$14,071.00               | \$14,071.00    |                         |            | 100%                        | \$14,071.00    | 100%                    | \$14,071.00    |
| H-001-6        | Abandoned Heating Unit Removals  | LS       | 1      | \$19,500.00               | \$19,500.00    |                         |            | 100%                        | \$19,500.00    | 100%                    | \$19,500.00    |
| H-001-7        | Replace Tunnel Exhaust Fan   | LS       | 1      | \$3,526.00                | \$3,526.00     |                         |            | 100%                        | \$3,526.00     | 100%                    | \$3,526.00     |
| H-001-8        | Modify Eyewash/Shower and Condensing Unit                              | LS       | 1      | \$45,760.00               | \$45,760.00    |                         |            | 100%                        | \$45,760.00    | 100%                    | \$45,760.00    |
| H-001-9        | Recommission Foam Systems  | LS       | 1      | \$76,960.00               | \$76,960.00    |                         |            | 100%                        | \$76,960.00    | 100%                    | \$76,960.00    |
| H-001-10       | Allowances Associated with the Foam-Water System                       | Allow    | 1      | \$23,000.00               | \$23,000.00    | 100%                    | \$8,570.00 | 63%                         | \$14,430.00    | 100%                    | \$23,000.00    |
| H-001-11       | Paint Exterior Siding  | LS       | 1      | \$15,750.00               | \$15,750.00    |                         |            | 100%                        | \$15,750.00    | 100%                    | \$15,750.00    |
| P-152-1        | Unclassified Excavation  | CY       | 30     | \$36.40                   | \$1,092.00     |                         |            | 100%                        | \$1,092.00     | 100%                    | \$1,092.00     |
| P-152-2        | Bituminous Pavement Removal  | SY       | 1,000  | \$5.20                    | \$5,200.00     |                         |            | 100%                        | \$5,200.00     | 100%                    | \$5,200.00     |
| P-152-3        | Concrete Pavement Removal  | SY       | 320    | \$16.00                   | \$5,120.00     |                         |            | 100%                        | \$5,120.00     | 100%                    | \$5,120.00     |
| P-156-1        | Inlet Protection   | EA       | 2      | \$260.00                  | \$520.00       |                         |            | 100%                        | \$520.00       | 100%                    | \$520.00       |
| P-200-1        | MaineDOT Base Course, Type A   | CY       | 125    | \$36.60                   | \$4,575.00     |                         |            | 100%                        | \$4,575.00     | 100%                    | \$4,575.00     |
| P-400-1        | MaineDOT HMA, Type 19mm  | TON      | 145    | \$125.00                  | \$18,125.00    | 5%                      | \$905.00   | 95%                         | \$17,220.00    | 100%                    | \$18,125.00    |
| P-603-1        | Tack Coat  | GAL      | 100    | \$5.20                    | \$520.00       |                         |            | 100%                        | \$520.00       | 100%                    | \$520.00       |
| M-001-1        | Pavement Painting  | SF       | 170    | \$3.12                    | \$530.40       |                         |            | 100%                        | \$530.40       | 100%                    | \$530.40       |
| M-001-2        | Signs  | EA       | 3      | \$26.00                   | \$78.00        |                         |            | 100%                        | \$78.00        | 100%                    | \$78.00        |
| M-001-3        | Wheel Stops  | EA       | 6      | \$12.48                   | \$74.88        |                         |            | 100%                        | \$74.88        | 100%                    | \$74.88        |
| Change Order 1 | Total Add \$69,786.00  |          |        |                           |                |                         |            |                             |                |                         |                |
|                | Item No. 1 - Alternate 1 - Paint Existing Siding                       | LS       | 1      | \$69,786.00               | \$69,786.00    |                         |            | 100%                        | \$69,786.00    | 100%                    | \$69,786.00    |
| Change Order 2 | Total Add \$16,053.00  |          |        |                           |                |                         |            |                             |                |                         |                |
|                | Item No. 1 - BEA 02 - Extended Operation Test, DDC System (H-001-2)    | LS       | 1      | (\$6,500.00)              | (\$6,500.00)   |                         |            | 100%                        | (\$6,500.00)   | 100%                    | (\$6,500.00)   |
|                | Item No. 2 - BEA 03 - Additional Concrete Demolition (H-001-1)         | LS       | 1      | \$2,259.00                | \$2,259.00     |                         |            | 100%                        | \$2,259.00     | 100%                    | \$2,259.00     |
|                | Item No. 3 - BEA 04 - Spray Foam Insulation (H-001-4)                  | LS       | 1      | \$7,140.00                | \$7,140.00     |                         |            | 100%                        | \$7,140.00     | 100%                    | \$7,140.00     |
|                | Item No. 4 - BEA 01 & 05 - Exhaust Stack Modifications (H-001-13)      | LS       | 1      | \$13,154.00               | \$13,154.00    |                         |            | 100%                        | \$13,154.00    | 100%                    | \$13,154.00    |
| Change Order 3 | Total Add \$37,945.00  |          |        |                           |                |                         |            |                             |                |                         |                |
|                | Item No. 1 - BEA 05R2 - Replace existing CMU work (H-001-1)            | LS       | 1      | \$28,284.90               | \$28,284.90    |                         |            | 100%                        | \$28,284.90    | 100%                    | \$28,284.90    |
|                | Item No. 2 - BEA 10 - Exterior Removals at wall panels (H-001-1)       | LS       | 1      | \$5,456.00                | \$5,456.00     |                         |            | 100%                        | \$5,456.00     | 100%                    | \$5,456.00     |
|                | Item No. 3 - BEA 12 - Electrical Panel Replacement (H-001-2)           | LS       | 1      | \$2,051.00                | \$2,051.00     |                         |            | 100%                        | \$2,051.00     | 100%                    | \$2,051.00     |
|                | Item No. 4 - BEA 07 - Existing Domestic Waterline Insulation (H-001-8) | LS       | 1      | \$2,155.00                | \$2,155.00     |                         |            | 100%                        | \$2,155.00     | 100%                    | \$2,155.00     |
| Change Order 4 | Total Add \$34,347.25  |          |        |                           |                |                         |            |                             |                |                         |                |
|                | Item No. 1 - BEA 08R2 Soil Testing                                     | LS       | 1      | \$13,603.25               | \$13,603.25    |                         |            | 100%                        | \$13,603.25    | 100%                    | \$13,603.25    |
|                | Item No. 2 - BEA 09 Remobilization                                     | LS       | 1      | \$1,800.00                | \$1,800.00     |                         |            | 100%                        | \$1,800.00     | 100%                    | \$1,800.00     |
|                | Item No. 3 - BEA11 Slab underpinning                                   | LS       | 1      | \$18,944.00               | \$18,944.00    |                         |            | 100%                        | \$18,944.00    | 100%                    | \$18,944.00    |
| Change Order 5 | Total Add \$35,437.00  |          |        |                           |                |                         |            |                             |                |                         |                |
|                | Item No. 1 - BEA 13 Material cost difference                           | LS       | 1      | \$1,670.00                | \$1,670.00     |                         |            | 100%                        | \$1,670.00     | 100%                    | \$1,670.00     |
|                | Item No. 2 - BEA 15 Paint concrete foundation                          | LS       | 1      | \$1,548.00                | \$1,548.00     |                         |            | 100%                        | \$1,548.00     | 100%                    | \$1,548.00     |
|                | Item No. 3 - BEA 16 CMU repointing related to underpinning             | LS       | 1      | (\$5,652.00)              | (\$5,652.00)   |                         |            | 100%                        | (\$5,652.00)   | 100%                    | (\$5,652.00)   |
|                | Item No. 4 - BEA 17R1 Roof Heating vents                               | LS       | 1      | \$37,871.00               | \$37,871.00    |                         |            | 100%                        | \$37,871.00    | 100%                    | \$37,871.00    |

DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 PERIODIC COST ESTIMATE

Estimate No. 19

Contractor: The Pencbscot Company, Inc.

Airport: Brunswick Executive Airport

Client: Midcoast Regional Redevelopment Authority

Hoyle, Tanner Job No. 3911228

Project: Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
 AIP No. 3-23-0056-024-2016

| Base Bid Items         | Designation                                  | Quantity |        | Amount per Contract Award |                | Amount This Pay Request |              | Amount Previously Requested |             | Total Requested To Date |              |                |
|------------------------|--|----------|--------|---------------------------|----------------|-------------------------|--------------|-----------------------------|-------------|-------------------------|--------------|----------------|
|                        |  | Unit     | Amount | Per Unit                  | Amount         | Quantity                | Amount       | Quantity                    | Amount      | Quantity                | Amount       |                |
| <b>Change Order 6</b>  | <b>Total Add: \$27,827.89</b>                |          |        |                           |                |                         |              |                             |             |                         |              |                |
|                        | Item No. 1 - BEA 19 Paint hangar west wall   | LS       | 1      | \$11,109.89               | \$11,109.89    |                         |              | 100%                        | \$11,109.89 | 100%                    | \$11,109.89  |                |
|                        | Item No. 2 - BEA 20 Additional light fixture | LS       | 1      | \$1,549.00                | \$1,549.00     |                         |              | 100%                        | \$1,549.00  | 100%                    | \$1,549.00   |                |
|                        | Item No. 3 - BEA 22 Additional fin tube      | LS       | 1      | \$3,824.00                | \$3,824.00     |                         |              | 100%                        | \$3,824.00  | 100%                    | \$3,824.00   |                |
|                        | Item No. 4 - BEA 08R2 Extension of time      | LS       | 1      | \$11,345.00               | \$11,345.00    |                         |              | 100%                        | \$11,345.00 | 100%                    | \$11,345.00  |                |
| <b>Change Order 8</b>  | <b>Total Add: \$336.00</b>                   |          |        |                           |                |                         |              |                             |             |                         |              |                |
|                        | Item No. 1 - BEA 23 Door Exit Device         | LS       | 1      | \$2,166.00                | \$2,166.00     |                         |              | 100%                        | \$2,166.00  | 100%                    | \$2,166.00   |                |
|                        | Item No. 2 - BEA 74 Fire sprinkler credits   | LS       | 1      | (\$1,830.00)              | (\$1,830.00)   |                         |              | 100%                        | -\$1,830.00 | 100%                    | (\$1,830.00) |                |
| <b>Change Order 10</b> | <b>Total Add: \$13,166.83</b>                |          |        |                           |                |                         |              |                             |             |                         |              |                |
|                        | Item No. 1 - BEA 28 Condensate Pump          | LS       | 1      | \$2,801.83                | \$2,801.83     |                         | \$2,801.83   | 0%                          | \$0.00      | 100%                    | \$2,801.83   |                |
|                        | Item No. 2 - BEA 29 Wash Line OS&Y Valve     | LS       | 1      | \$10,365.00               | \$10,365.00    |                         | \$10,365.00  | 0%                          | \$0.00      | 100%                    | \$10,365.00  |                |
| <b>Change Order 11</b> | <b>Total Deduct: (\$13,770.00)</b>           |          |        |                           |                |                         |              |                             |             |                         |              |                |
|                        | Item No. 1 - As-built survey credit          | LS       | 1      | (\$5,200.00)              | (\$5,200.00)   |                         | (\$5,200.00) | 0%                          | \$0.00      | 100%                    | (\$5,200.00) |                |
|                        | Item No. 2 - Unused allowance credit         | LS       | 1      | (\$8,570.00)              | (\$8,570.00)   |                         | (\$8,570.00) | 0%                          | \$0.00      | 100%                    | (\$8,570.00) |                |
|                        |  |          |        |                           | \$2,719,739.67 |                         | 1%           | \$14,071.83                 | 99%         | \$2,705,667.84          | 100%         | \$2,719,739.67 |

GENERAL CONTRACTOR'S CONDITIONAL RELEASE  
AND  
DISCHARGE OF LIEN

The Penobscot Company, Inc. (hereafter called the "Contractor"), in consideration of One Hundred Forty Eight Thousand Six Hundred Fifty One and 63/100 Dollars (\$148,651.63) to be paid by Midcoast Regional Redevelopment Authority, Brunswick Executive Airport, Brunswick, ME, from any and all liens, claims, causes of action, liabilities and other obligations with respect to payment for any and all labor, work, services and materials furnished, performed or supplied to or in connection with the construction project known as Hangar Improvements, Phase III – Improve Hangar 4 & End Area Alterations AIP 3-23-0056-024-2016 (hereinafter called the "Project"), through the date of June 1, 2019.

Contractor acknowledges that receipt of this payment will constitute full and final payment through the date set forth above, except for retainage in the amount of One Hundred Thirty Five Thousand Nine Hundred Eighty Six and 98/100 Dollars (\$135,986.98)

Contractor further covenants and represents that all of the subcontractors, suppliers, mechanics, materialmen and laborers engaged by him have been paid in full (less proper retainages, if any) or shall be immediately paid in full from the proceeds of this current payment for all work done and/or materials furnished to the Project through the date set forth in the first paragraph above. The contractor hereby agrees to indemnify, defend and hold harmless Midcoast Regional Redevelopment Authority, Brunswick Executive Airport, Brunswick, ME from any and all claims by any person or entity based upon work done or materials furnished in connection with the Premises by the Contractor and/or his subcontractors, suppliers, mechanics, materialmen and laborers through the date set forth in the first paragraph above.

The undersigned represents that he is authorized by all corporate or other action necessary to execute and deliver this release.

IN WITNESS WHEREOF, Contractor has executed this instrument this 17<sup>th</sup> day of July 2019.

CONTRACTOR:

By: David F. Nazaroff Title: President  
David F. Nazaroff

Notarized: Nancy McKeon My commission Expires: May 19, 2022

NANCY MCKEON  
NOTARY-PUBLIC  
State of Maine  
My Commission Expires May 19, 2022

**REPORT OF CERTIFIED DBE CONTRACTORS USED ON FAA ASSISTED CONTRACTS**

Name of Airport: Brunswick Executive Airport

Name of Project: Hangar Improvements, Phase III, Improve Hangar 4 & End Area Alterations

Hoyle, Tanner Project #: 391128 AIP Grant #: 3-23-0056-024-2017

Contractor's PCE #: 19X Total Anticipated DBE %: 5%

DBE Firm: Roundy's Paving

Address: 565 Elm Street

City/State/ZIP: Newport, ME 04953

Telephone Number: (207) 368-2050

Type of work Performed and NAICS, if known: Gravel, Ground Work, Concrete Cutting, Backfill - 238910/238950/484220

Dollar Amount of Work to Date: 127,272

Dollar Amount of Work Previously Reported: 127,272

Dollar Amount of Work this PCE: 0

Disadvantaged Group (check one)

| Black American         |   | Hispanic American |   | Native American                      |   | Subcontinent Asian American |   |
|------------------------|---|-------------------|---|--------------------------------------|---|-----------------------------|---|
|                        | q |                   | q |                                      | q |                             | q |
| Male                   | q | Male              | q | Male                                 | q | Male                        | q |
| Female                 | q | Female            | q | Female                               | q | Female                      | q |
| Asian Pacific American |   | Non-Minority      |   | Other (not of any group listed here) |   |                             |   |
|                        | q |                   | q |                                      | q |                             |   |
| Male                   | q | Male              | q | Male                                 | q |                             |   |
| Female                 | q | Female            | q | Female                               | q |                             |   |

I certify that the above information is correct:

Lisa Roundy  
Signature of DBE Firm

7/3/19  
Date

Nancy McKeon  
Signature of General Contractor or Consultant

7/3/19  
Date



|  |  |   |
|--|--|---|
| <b>Construction Progress and Inspection Report</b>   |  | Period Ending<br><b>06/27/19</b>                        |
| <b>Airport Grant Program</b>   |  | Project Number<br><b>AIP 3-23-0056-024-2016</b>         |
| Airport Name<br><b>Brunswick Executive Airport</b>   |  |   |
| Project Description<br><b>Rehabilitate Bldg-Hangar 4 ADA Improvements/Code Compliance Renovations</b>  |  | Contractor's Name<br><b>The Penobscot Company (TPC)</b> |
| 1. Contract Time   | No. Days Charged to Date <b>732</b>  | Last Working Day Charged (Date) <b>06/27/19</b>         |
| 2. Brief Weather Summary this Period, including Approximate Rainfall and Periods of Below Freezing Temperature<br>(On earthwork jobs, include soil conditions.)                                    |  |   |
| <ul style="list-style-type: none"> <li>Please see attached NOAA monthly weather summary.</li> </ul>  |  |   |
| 3. Rough Estimate of Percent Completion to Date of Construction Phases (Include items such as clearing, grading, drainage, base, surface, lighting, etc.)  |  |   |
| <b>Bold &amp; Underlined Percentages are Items Charged / Percentage Complete Increased This Period</b>   |  |   |
| <ul style="list-style-type: none"> <li><b><u>Change Order No. 9 – Item 3 – Replace float valve at fire pump cistern: 97%</u></b></li> </ul> <p>Total Project – 98% (Percentage Based on Costs)</p> |  |   |
| 4. Work Completed or in Progress this Period   |  |   |
| <ul style="list-style-type: none"> <li>Additional flow tests to determine issue and develop plan to meet requirements of sprinkler system.</li> <li>Installation of float valve</li> </ul>         |  |   |
| 5a. Summary of Laboratory and Field Testing this Period (Note failing tests and any retests. Summarize out-of-tolerance.)  |  |   |
| N/A  |  |   |
| 5b. Material (Identify material subject to pay reduction.)   |  |   |
| N/A  |  |   |
| 6. Description of Anticipated Work by Contractor for Next Period   |  |   |
| <ul style="list-style-type: none"> <li>Punch List Items.</li> <li>General site clean up.</li> <li>Replace relief valves (CO)</li> <li>Fire system completion and test.</li> </ul>                  |  |   |
| 7. Problem Areas/Other Comments (Include revisions to plans and specifications approved or denied, delays, difficulties, etc. and actions taken.)  |  |   |
| <b>SPONSOR'S INSPECTOR OR REPRESENTATIVE</b>   |  |   |
| Date<br><b>7/10/2019</b>   | Typed or Printed Name and Title<br><b>Owen Krauss</b><br><b>Resident Project Repr.</b> | Signature<br><b>OWEN KRAUSS</b>                         |

**These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - <http://www.ncdc.noaa.gov>.**

### Climatological Report (Monthly)

864  
 CXUS51 KGYX 041950  
 CLMPWM

PWMCLMPWM 000  
 TTAA00 KGYX 031440

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE GRAY ME  
 350 PM EDT THU JUL 4 2019

.....

...THE PORTLAND ME CLIMATE SUMMARY FOR THE MONTH OF JUNE 2019...

CLIMATE NORMAL PERIOD 1981 TO 2010  
 CLIMATE RECORD PERIOD 1941 TO 2019 /FOR TEMPERATURES/  
 CLIMATE RECORD PERIOD 1871 TO 2019 /FOR PRECIPITATION/  
 CLIMATE RECORD PERIOD 1882 TO 2019 /FOR SNOWFALL/

| WEATHER | OBSERVED<br>VALUE | DATE(S) | NORMAL<br>VALUE | DEPART<br>FROM<br>NORMAL | LAST YEAR'S<br>VALUE | DATE(S) |
|---------|-------------------|---------|-----------------|--------------------------|----------------------|---------|
|---------|-------------------|---------|-----------------|--------------------------|----------------------|---------|

.....  
 TEMPERATURE (F)

|                |      |            |      |      |      |       |
|----------------|------|------------|------|------|------|-------|
| RECORD         |      |            |      |      |      |       |
| HIGH           | 98   | 06/28/1991 |      |      |      |       |
| LOW            | 33   | 06/04/1944 |      |      |      |       |
| HIGHEST        | 84   | 06/29      | 89   | -5   | 91   | 06/18 |
|                |      | 06/23      |      |      |      |       |
| LOWEST         | 47   | 06/09      | 43   | 4    | 46   | 06/09 |
|                |      | 06/04      |      |      |      | 06/05 |
|                |      |            |      |      |      | 06/04 |
| AVG. MAXIMUM   | 71.7 |            | 73.2 | -1.5 | 73.7 |       |
| AVG. MINIMUM   | 53.8 |            | 53.6 | 0.2  | 53.2 |       |
| MEAN           | 62.8 |            | 63.4 | -0.6 | 63.5 |       |
| DAYS MAX >= 90 | 0    |            | 0.7  | -0.7 | 1    |       |
| DAYS MAX <= 32 | 0    |            | 0.0  | 0.0  | 0    |       |
| DAYS MIN <= 32 | 0    |            | 0.0  | 0.0  | 0    |       |
| DAYS MIN <= 0  | 0    |            | 0.0  | 0.0  | 0    |       |

PRECIPITATION (INCHES)

|              |       |                |      |      |      |  |
|--------------|-------|----------------|------|------|------|--|
| RECORD       |       |                |      |      |      |  |
| MAXIMUM      | 10.86 | 1917           |      |      |      |  |
| MINIMUM      | 0.53  | 1908           |      |      |      |  |
| TOTALS       | 5.85  |                | 3.79 | 2.06 | 3.30 |  |
| DAILY AVG.   | 0.19  |                | 0.13 | 0.06 | 0.11 |  |
| DAYS >= .01  | 15    |                | 11.8 | 3.2  | 11   |  |
| DAYS >= .10  | 11    |                | 6.8  | 4.2  | 4    |  |
| DAYS >= .50  | 5     |                | 2.3  | 2.7  | 2    |  |
| DAYS >= 1.00 | 1     |                | 0.9  | 0.1  | 2    |  |
| GREATEST     |       |                |      |      |      |  |
| 24 HR. TOTAL | 1.38  | 06/20 TO 06/21 |      |      |      |  |

SNOWFALL (INCHES)

RECORDS

|                |      |      |     |      |
|----------------|------|------|-----|------|
| TOTAL          | 0.0  |      |     |      |
| TOTALS         | 0.0  | 0.0  | 0.0 | 0.0  |
| SINCE 7/1      | 66.0 | 61.9 | 4.1 | 91.9 |
| SNOWDEPTH AVG. | 0    |      |     |      |
| DAYS >= TRACE  | 0    | 0.0  | 0.0 |      |
| DAYS >= 1.0    | 0    | 0.0  | 0.0 |      |
| GREATEST       |      |      |     |      |
| SNOW DEPTH     | 0    |      |     |      |
| 24 HR TOTAL    | 0.0  |      |     |      |

DEGREE\_DAYS

|               |      |      |     |      |
|---------------|------|------|-----|------|
| HEATING TOTAL | 93   | 106  | -13 | 95   |
| SINCE 7/1     | 7071 | 7107 | -36 | 6693 |
| COOLING TOTAL | 33   | 57   | -24 | 55   |
| SINCE 1/1     | 36   | 64   | -28 | 70   |

WIND (MPH)

|                              |        |      |       |  |
|------------------------------|--------|------|-------|--|
| AVERAGE WIND SPEED           | 6.7    |      |       |  |
| HIGHEST WIND SPEED/DIRECTION | 28/320 | DATE | 06/22 |  |
| HIGHEST GUST SPEED/DIRECTION | 40/330 | DATE | 06/22 |  |

SKY COVER

AVERAGE SKY COVER 0.60

AVERAGE RH (PERCENT) 72

- INDICATES NEGATIVE NUMBERS.
- R INDICATES RECORD WAS SET OR TIED.
- MM INDICATES DATA IS MISSING.
- T INDICATES TRACE AMOUNT.

&&

ALTHOUGH JUNE MARKS THE BEGINNING OF METEOROLOGICAL SUMMER, IN THIS PART OF NEW ENGLAND SPRING WEATHER OFTEN LASTS THROUGH MUCH OF JUNE, AND THAT WAS THE CASE AGAIN THIS YEAR. AN ACTIVE JET STREAM PATTERN BROUGHT FREQUENT STORM SYSTEMS INTO THE REGION EACH WITH RENEWED RAINFALL. THE MOST SIGNIFICANT OF THESE MOVED THROUGH ON JUNE 20 AND 21 WHEN MORE THAN AN INCH OF RAIN FELL. SOME WARMER WEATHER MADE AN APPEARANCE LATE IN THE MONTH WITH THE TEMPERATURE TOPPING 80 DEGREES ON 4 DAYS.

THE AVERAGE TEMPERATURE FOR THE MONTH WAS 62.8 DEGREES WHICH WAS 0.6 DEGREES BELOW NORMAL. HIGH TEMPERATURES WERE WELL BELOW NORMAL WHILE LOW TEMPERATURES WERE SLIGHTLY ABOVE NORMAL, INDICATIVE OF A CLOUDY AND WET WEATHER PATTERN. THE COOLEST JUNE ON RECORD WAS IN 1958 WHEN THE AVERAGE TEMPERATURE WAS ONLY 58.1 DEGREES. THE WARMEST WAS IN 2001 WHEN IT WAS 67.1 DEGREES.

A TOTAL OF 5.85 INCHES OF RAIN FELL WHICH WAS 2.06 INCHES ABOVE NORMAL. THE HEAVIEST RAIN CAME ON JUNE 20 AND 21 WHEN A STORM SYSTEM BROUGHT 1.28 INCHES OF RAIN. THE WETTEST JUNE WAS IN 1917 WHEN 10.86 INCHES OF RAIN FELL. THE DRIEST WAS IN 1908 WHEN ONLY 0.53 INCHES WAS RECORDED.

THE FOLLOWING RECORDS WERE SET OR TIED IN JUNE 2019...

|      |                                |                 |
|------|--------------------------------|-----------------|
| DATE | RECORD                         | PREVIOUS        |
| 3    | 3 - SMALLEST TEMPERATURE RANGE | 4 IN 1990, 1944 |

# APPLICATION AND CERTIFICATE FOR PAYMENT

AIA DOCUMENT G702

**TO OWNER:**

Midcoast Regional Redevelopment Authority  
15 Terminal Road, Suite 200  
Brunswick, ME 04011

**PROJECT:**  
MRRR Hangar 4 Interior Improvements  
Brunswick Landing, Brunswick, Maine

**APPLICATION NO.** 4  
**PERIOD TO:** September 30, 2016  
**PROJECT NOS:** GCC 60190 / WP 12009  
EDA Project# 01-01-14050

- Distribution to:
- OWNER
- ARCHITECT
- CONTRACTOR

**FROM CONTRACTOR** Ganneston Construction Corp  
P.O. Box 27  
Augusta, ME 04332

**VIA ENGINEER:** Wright-Pierce  
99 Main Street  
Topsham, ME 04086

**CONTRACT DATE:** June 21, 2016

**CONTRACT FOR:** MRRR Hangar 4 Interior Improvements

## CONTRACTORS APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract Continuation Sheet, AIA Document G703, is attached.

|   |                |
|---|----------------|
| 1. ORIGINAL CONTRACT SUM  | \$1,493,123.00 |
| 2. Net change by Change Orders                                    | \$47,641.20    |
| 3. CONTRACT SUM TO DATE   | \$1,540,764.20 |
| 4. TOTAL COMPLETED AND STORED TO DATE                             | \$1,540,764.20 |
| 5. RETAINAGE:   |                |
| 0% of Completed Work  | \$0.00         |
| 2% of Stored Materials  | \$0.00         |
| Total Retainage (Line 5a + 5b or Total in Column I of G703)       | \$0.00         |
| 6. TOTAL EARNED LESS RETAINAGE                                    | \$1,540,764.20 |
| 7. LESS PREVIOUS CERTIFICATES FOR PAYMENT                         | \$1,509,948.92 |
| 8. CURRENT PAYMENT DUE  | \$30,815.28    |
| 9. BALANCE TO FINISH, INCLUDING RETAINAGE<br>(Line 3 less Line 6) | \$0.00         |

| CHANGE ORDER SUMMARY                               | ADDITIONS          | DEDUCTIONS    |
|--|--------------------|---------------|
| Total changes approved in previous months by Owner | \$27,381.40        | \$0.00        |
| Total approved this Month                          | \$20,259.80        | \$0.00        |
| <b>TOTALS</b>                                      | <b>\$47,641.20</b> | <b>\$0.00</b> |
| <b>NET CHANGES by Change Order</b>                 | <b>\$47,641.20</b> |               |

The undersigned Contractor certifies that to the best of the Contractors knowledge, information and belief the Work covered by this application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Ganneston Construction Corp

By: Stacey Morrison, CEO/owner

Date: 12/13/2016

State of: Maine  
County of: Kennebec  
Subscribed and sworn to before me this 13<sup>th</sup> day of December, 2016.

Karen E. Moody  
Notary Public Maine  
My Commission Expires  
October 22, 2018

Notary Public: Karen Moody  
My Commission expires: October 22, 2018

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ \_\_\_\_\_

Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform to the amount certified.  
ARCHITECT: Wright-Pierce

By: \_\_\_\_\_ Date: \_\_\_\_\_

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herewith. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Midcoast Regional Redevelopment Authority

By: TBM

JEFFREY -  
ELEVATOR PASSED  
IN SPECTION  
YESTERDAY (1/16)  
OK TO PAY  
TBM

50742  
& capitalize

Code \_\_\_\_\_ Class FY20168 Prior grants  
Amount Approved \$30,815.28  
Date Approved 1/17/2017  
Approved By Jeffrey K. Gerold  
Deputy Director  
Approved By \_\_\_\_\_  
Department Head



**CONTINUATION SHEET**

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification, is attached. In tabulations below, amounts are stated to the nearest dollar. Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO.:  
APPLICATION DATE: 30-Sep-16  
PERIOD TO: 31-Jul-16  
ARCHITECT'S PROJECT NO.:

| A<br>ITEM NO | B<br>DESCRIPTION OF WORK                                 | C<br>SCHEDULED VALUE | D<br>WORK COMPLETED               |             | F<br>MATERIALS PRESENTLY STORED (NOT IN DORE) | G<br>TOTAL COMPLETED AND STORED (D+E+F) | H<br>% (G/C) | I<br>BALANCE TO FINISH (C-G) | J<br>RETAINAGE (IF VARIABLE) RATE |
|--------------|--|----------------------|-----------------------------------|-------------|---|---|--------------|------------------------------|-----------------------------------|
|              |  |                      | FROM PREVIOUS APPLICATION (D & E) | THIS PERIOD |   |   |              |                              |                                   |
| 1            | General Requirements                                     | 61,617.00            | 61,617.00                         | 0.00        | 0.00  | 61,617.00                               | 100.0%       | 0.00                         | 2%                                |
| 2            | Performance & Payment Bonds                              | 13,303.00            | 13,303.00                         | 0.00        | 0.00  | 13,303.00                               | 100.0%       | 0.00                         | 1,232.34                          |
| 3            | Subcontractor Insurance                                  | 2,276.00             | 2,276.00                          | 0.00        | 0.00  | 2,276.00                                | 100.0%       | 0.00                         | 266.06                            |
| 4            | Demolition / Removals                                    | 81,944.00            | 81,944.00                         | 0.00        | 0.00  | 81,944.00                               | 100.0%       | 0.00                         | 45.52                             |
| 5            | Concrete   | 6,678.00             | 6,678.00                          | 0.00        | 0.00  | 6,678.00                                | 100.0%       | 0.00                         | 1,638.88                          |
| 6            | Unit Masonry   | 30,106.00            | 30,106.00                         | 0.00        | 0.00  | 30,106.00                               | 100.0%       | 0.00                         | 133.56                            |
| 7            | Metal Fabrications                                       | 36,557.00            | 36,557.00                         | 0.00        | 0.00  | 36,557.00                               | 100.0%       | 0.00                         | 602.12                            |
| 8            | Rough Carpentry  | 3,822.00             | 3,822.00                          | 0.00        | 0.00  | 3,822.00                                | 100.0%       | 0.00                         | 731.14                            |
| 9            | Roofing, Insulation & EPDM                               | 337,357.00           | 337,357.00                        | 0.00        | 0.00  | 337,357.00                              | 100.0%       | 0.00                         | 76.44                             |
| 10           | Firestopping   | 4,047.00             | 4,047.00                          | 0.00        | 0.00  | 4,047.00                                | 100.0%       | 0.00                         | 6,747.14                          |
| 11           | Sheet Metal Flashing & Trim                              | 13,760.00            | 13,760.00                         | 0.00        | 0.00  | 13,760.00                               | 100.0%       | 0.00                         | 80.94                             |
| 12           | Joint Sealants   | 1,124.00             | 1,124.00                          | 0.00        | 0.00  | 1,124.00                                | 100.0%       | 0.00                         | 275.20                            |
| 13           | Steel Doors, Hardware & Trim                             | 51,712.00            | 51,712.00                         | 0.00        | 0.00  | 51,712.00                               | 100.0%       | 0.00                         | 22.48                             |
| 14           | Coiling Doors  | 22,146.00            | 22,146.00                         | 0.00        | 0.00  | 22,146.00                               | 100.0%       | 0.00                         | 1,034.24                          |
| 15           | Glazing  | 1,349.00             | 1,349.00                          | 0.00        | 0.00  | 1,349.00                                | 100.0%       | 0.00                         | 442.92                            |
| 16           | Flooring   | 4,491.00             | 4,491.00                          | 0.00        | 0.00  | 4,491.00                                | 100.0%       | 0.00                         | 26.98                             |
| 17           | Gypsum Wallboard (includes Alternate A)                  | 43,169.00            | 43,169.00                         | 0.00        | 0.00  | 43,169.00                               | 100.0%       | 0.00                         | 89.82                             |
| 18           | Acoustical Ceiling                                       | 2,046.00             | 2,046.00                          | 0.00        | 0.00  | 2,046.00                                | 100.0%       | 0.00                         | 863.38                            |
| 19           | Painting   | 49,352.00            | 49,352.00                         | 0.00        | 0.00  | 49,352.00                               | 100.0%       | 0.00                         | 40.92                             |
| 20           | Modular Metal Partitions                                 | 47,636.00            | 47,636.00                         | 0.00        | 0.00  | 47,636.00                               | 100.0%       | 0.00                         | 987.04                            |
| 21           | Elevators  | 46,682.00            | 46,682.00                         | 0.00        | 0.00  | 46,682.00                               | 100.0%       | 0.00                         | 952.72                            |
| 22           | Plumbing & HVAC  | 152,046.00           | 152,046.00                        | 0.00        | 0.00  | 152,046.00                              | 100.0%       | 0.00                         | 933.64                            |
| 23           | Sprinkler System   | 32,478.00            | 32,478.00                         | 0.00        | 0.00  | 32,478.00                               | 100.0%       | 0.00                         | 3,040.92                          |
| 24           | Electrical   | 447,425.00           | 447,425.00                        | 0.00        | 0.00  | 447,425.00                              | 100.0%       | 0.00                         | 649.56                            |
|              |  |                      |                                   |             |   |   |              | 0.00                         | 8,948.50                          |
|              | Subtotals  | 1,493,123.00         | 1,493,123.00                      | 0.00        | 0.00  | 1,493,123.00                            | 100.0%       | 0.00                         | 29,862.46                         |
|              | <b>CHANGE ORDERS</b>                                     |                      |                                   |             |   |   |              |                              |                                   |
|              | Change Order #1 - Amend completion date                  | 0.00                 | 0.00                              | 0.00        | 0.00  | 0.00                                    | 0.0%         | 0.00                         | 0.00                              |
|              | Change order #2 - Additional Asbestos Removal            | 4,466.00             | 4,466.00                          | 0.00        | 0.00  | 4,466.00                                | 100.0%       | 0.00                         | 89.32                             |
|              | Change Order #3 - Roof support for HVAC Unit             | 19,358.00            | 19,358.00                         | 0.00        | 0.00  | 19,358.00                               | 100.0%       | 19,358.00                    | 387.16                            |
|              | Change Order #4- RFI #11, RFI #15, Parachute Room        | 3,557.40             | 3,557.40                          | 0.00        | 0.00  | 3,557.40                                | 100.0%       | 3,557.40                     | 71.15                             |
|              | Change Order #5 - Air Piping Demolition and Eyewash Repa | 20,259.80            | 20,259.80                         | 0.00        | 0.00  | 20,259.80                               | 100.0%       | 20,259.80                    | 405.20                            |
|              | TOTALS   | 1,540,764.20         | 1,540,764.20                      | 0.00        | 0.00  | 1,540,764.20                            | 100.0%       | 43,175.20                    | 30,815.28                         |

**CHANGE ORDER**

**ORDER NO.:** Seven (7)  
**DATE:** October 17, 2018  
**NAME OF PROJECT:** Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
AIP 3-23-0056-031-2018 (increase to scope included in supplemental grant)  
**OWNER:** Midcoast Regional Redevelopment Authority  
Brunswick Executive Airport  
Brunswick, ME 04011  
**CONTRACTOR:** The Penobscot Company, Inc.  
519 West Street  
Rockport, ME 04856

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You are hereby requested to comply with the following changes to the CONTRACT DOCUMENTS:

**DESCRIPTION**

Item No. 1 – Recommission Foam Water System (COP#18R2 and COP#21).

Item No. 1 is the addition of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$244,146.00

This action adds an additional 56 days to the Contract.

**JUSTIFICATION**

Item No. 1 – Recommission Foam Water System (COP#18R2 and #21).

Modifications to the existing foam water fire suppression system in Hangar 4 are required to achieve full compliance with the current edition of NFPA 409. This proposal provides pricing to bring the system into compliance.

The Penobscot Company's cost proposals COP # BEA-018R2 and COP # BEA-021 are attached. COP # BEA-021 is a deduction to COP # BEA-018R2.

The Consultant finds the proposals to be fair and reasonable. A justification memo is attached.

**SUMMARY OF CHANGES**

Modifications to Pay Items:

|                           |               |
|---------------------------|---------------|
| H-001-9A <u>Addition:</u> | +\$244,146.00 |
| Contract Amount:          | \$0.00        |
| New Contract Amount:      | \$244,146.00  |

Contract Modification Summary:

|                                       |                       |
|---------------------------------------|-----------------------|
| Item No. 1                            | +\$244,146.00         |
| <b>Total Change Order No. 7</b>       | <b>+\$244,146.00</b>  |
| Contract Price (Original plus CO#1-6) | \$2,720,006.84        |
| Total Change Order No. 7              | <u>+ \$244,146.00</u> |
| <b>New Contract Price</b>             | <b>\$2,964,152.84</b> |

The proposed change is not an alternate bid.

The proposed change does not reduce the size of the eligible project.

The proposed change does not affect other prime contractors.

The proposed change does not require consent of surety and separate payment and performance bonds.

The proposed change will not require new insurance certificates.

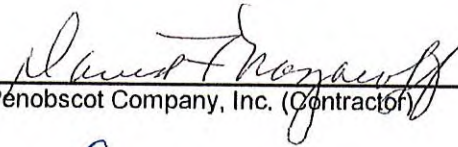
This change order will be given a separate Notice To Proceed. The Contractor will agree to commence work on a date to be specified in the CO#7 Notice To Proceed and to fully complete the project within **56 calendar days**. These added days will be considered separately from the calendar days of the original contract and any that were added in Change Orders #1-#6.

This document shall become an amendment to the Contract and all provisions of the Contract will apply thereto.

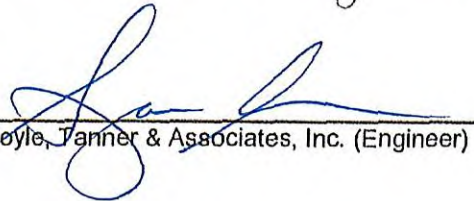
Approvals Required:

To be effective, this Order must be approved by the Owner if it changes the scope or objective of the PROJECT, or as may otherwise be required by the SUPPLEMENTAL GENERAL PROVISIONS.

Agreed to by:

  
The Penobscot Company, Inc. (Contractor) 3/12/2019 Date

Recommended by:

  
Hoyle, Tanner & Associates, Inc. (Engineer) 3/14/19 Date

Approved by:

  
Midcoast Regional Redevelopment Authority (Owner) 4/24/19 Date

\_\_\_\_\_  
Maine Department of Transportation Date

**FAA email attached**

\_\_\_\_\_  
US DOT - Federal Aviation Administration Date

## Sheppard, Suzanne L.

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**From:** Luke.Garrison@faa.gov  
**Sent:** Monday, October 22, 2018 8:09 AM  
**To:** Sheppard, Suzanne L.  
**Cc:** marty@mrta.us  
**Subject:** RE: Change Orders #6 and #7 for Hangar 4 AIP 031-2018 and 024-2016

Suzy,

Please accept this email as our approval of the Change Order #7 proposal (*as previously attached*). This work has been included in and shall be funded under AIP Project No. 3-23-0056-031-2018.

As always, the FAA's participation on change orders is subject to the availability of funding and the limitations of the grant.

Regards,

### Luke A. Garrison, PE

FAA New England Region - Airports Division  
1200 District Avenue  
Burlington, MA 01803  
Phone: (781) 238-7622  
[luke.garrison@faa.gov](mailto:luke.garrison@faa.gov)

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**From:** Sheppard, Suzanne L. <ssheppard@hoyletanner.com>  
**Sent:** Wednesday, October 17, 2018 2:25 PM  
**To:** Garrison, Luke (FAA) <Luke.Garrison@faa.gov>  
**Subject:** Change Orders #6 and #7 for Hangar 4 AIP 031-2018 and 024-2016

Luke,  
Please see the attached change orders for your official review. I have made some changes to each as detailed below.

#### Change Order 6

I added Item #4 and all backup information to go along with it. You might recall when the soil testing occurred the contractor had requested extra mobilization/general conditions. We had deferred that expense until such time as the extension had occurred. I also revised the language of the time extension for Items #1, 2 and 3.

#### Change Order 7

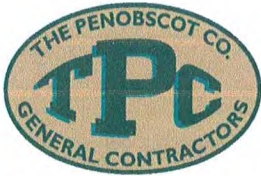
Because of the addition of Item #4 in CO6 I changed the total \$ figures in CO7. That is the only change. The increase to the contract in CO7 remains the same.

Thanks,

Client: Midcoast Regional Redevelopment Authority  
 Airport: Brunswick Executive Airport  
 Project: Hangar Improvements, Phase III - Improve Hangar 4 & 5 End Area Alteration  
 AIP: 3-23-0056-024-2016

| Base Bid Item No. | Designation                                       | Quantity |        | Amount per Contract Award |                       | Adjustments per CO No. 5 |                     | New Contract Amount |                       |
|-------------------|---|----------|--------|---------------------------|-----------------------|--------------------------|---------------------|---------------------|-----------------------|
|                   |   | Unit     | Amount | Per Unit                  | Amount                | Per Unit                 | Amount              | Per Unit            | Amount                |
| G-001-1           | Mobilization (CO #1)                              | LS       | 1      | \$73,419.00               | \$73,419.00           | \$0.00                   | \$0.00              | \$73,419.00         | \$73,419.00           |
| G-001-2           | MMP Compliance (CO #4)                            | LS       | 1      | \$16,515.25               | \$16,515.25           | \$0.00                   | \$0.00              | \$16,515.25         | \$16,515.25           |
| G-001-3           | AsBuilt Survey                                    | LS       | 1      | \$5,200.00                | \$5,200.00            | \$0.00                   | \$0.00              | \$5,200.00          | \$5,200.00            |
| H-001-1           | Demolish Building Addition (CO #4)                | LS       | 1      | \$277,399.90              | \$277,399.90          | \$0.00                   | \$0.00              | \$277,399.90        | \$277,399.90          |
| H-001-2           | Building Installation (CO #6)                     | LS       | 1      | \$1,832,654.52            | \$1,832,654.52        | \$0.00                   | \$0.00              | \$1,832,654.52      | \$1,832,654.52        |
| H-001-3           | Repair Concrete Floor (CO #1)                     | LS       | 1      | \$6,240.00                | \$6,240.00            | \$0.00                   | \$0.00              | \$6,240.00          | \$6,240.00            |
| H-001-4           | Interior Wall and Door Upgrades (CO #6)           | LS       | 1      | \$147,991.89              | \$147,991.89          | \$0.00                   | \$0.00              | \$147,991.89        | \$147,991.89          |
| H-001-5           | Roof Drain Roof Repairs (CO #1)                   | LS       | 1      | \$14,071.00               | \$14,071.00           | \$0.00                   | \$0.00              | \$14,071.00         | \$14,071.00           |
| H-001-6           | Abandoned Heating Unit Removals (CO #1)           | LS       | 1      | \$19,500.00               | \$19,500.00           | \$0.00                   | \$0.00              | \$19,500.00         | \$19,500.00           |
| H-001-7           | Replace Tunnel Exhaust Fan (CO #1)                | LS       | 1      | \$3,526.00                | \$3,526.00            | \$0.00                   | \$0.00              | \$3,526.00          | \$3,526.00            |
| H-001-8           | Modify Eyewash/Shower and Condensing Unit (CO #3) | LS       | 1      | \$47,915.00               | \$47,915.00           | \$0.00                   | \$0.00              | \$47,915.00         | \$47,915.00           |
| H-001-9           | Recommission Foam Systems                         | LS       | 1      | \$76,960.00               | \$76,960.00           | \$0.00                   | \$0.00              | \$76,960.00         | \$76,960.00           |
| H-001-9A          | Recommission Foam System (Grant 2) (CO#7 Item 1)  | LS       | 1      | \$0.00                    | \$0.00                | 244,146.00               | \$244,146.00        | \$244,146.00        | \$244,146.00          |
| H-001-10          | Allowances Associated with the Foam-Water System  | Allow    | 1      | \$23,000.00               | \$23,000.00           | \$0.00                   | \$0.00              | \$23,000.00         | \$23,000.00           |
| H-001-11          | Paint Exterior Siding (BASE BID) (CO #5)          | LS       | 1      | \$17,298.00               | \$17,298.00           | \$0.00                   | \$0.00              | \$17,298.00         | \$17,298.00           |
| H-001-12          | Paint Existing Siding (CO #1)                     | LS       | 1      | \$69,786.00               | \$69,786.00           | \$0.00                   | \$0.00              | \$69,786.00         | \$69,786.00           |
| H-001-13          | Exhaust Stack Modifications (CO #5)               | LS       | 1      | \$14,824.00               | \$14,824.00           | \$0.00                   | \$0.00              | \$14,824.00         | \$14,824.00           |
| H-001-14          | Roof Heating Vents (CO #5)                        | LS       | 1      | \$37,871.00               | \$37,871.00           | \$0.00                   | \$0.00              | \$37,871.00         | \$37,871.00           |
| P-152-1           | Unclassified Excavation                           | CY       | 30     | \$36.40                   | \$1,092.00            | \$0.00                   | \$0.00              | \$36.40             | \$1,092.00            |
| P-152-2           | Bituminous Pavement Removal                       | SY       | 1,000  | \$5.20                    | \$5,200.00            | \$0.00                   | \$0.00              | \$5.20              | \$5,200.00            |
| P-152-3           | Concrete Pavement Removal                         | SY       | 320    | \$16.00                   | \$5,120.00            | \$0.00                   | \$0.00              | \$16.00             | \$5,120.00            |
| P-156-1           | Inlet Protection (CO #1)                          | EA       | 2      | \$260.00                  | \$520.00              | \$0.00                   | \$0.00              | \$260.00            | \$520.00              |
| P-200-1           | MaineDOT Base Course, Type A                      | CY       | 125    | \$36.60                   | \$4,575.00            | \$0.00                   | \$0.00              | \$36.60             | \$4,575.00            |
| P-400-1           | MaineDOT HMA, Type 19mm                           | TON      | 145    | \$125.00                  | \$18,125.00           | \$0.00                   | \$0.00              | \$125.00            | \$18,125.00           |
| P-603-1           | Tack Coat   | GAL      | 100    | \$5.20                    | \$520.00              | \$0.00                   | \$0.00              | \$5.20              | \$520.00              |
| M-001-1           | Pavement Painting                                 | SF       | 170    | \$3.12                    | \$530.40              | \$0.00                   | \$0.00              | \$3.12              | \$530.40              |
| M-001-2           | Signs   | EA       | 3      | \$26.00                   | \$78.00               | \$0.00                   | \$0.00              | \$26.00             | \$78.00               |
| M-001-3           | Wheel Stops                                       | EA       | 6      | \$12.48                   | \$74.88               | \$0.00                   | \$0.00              | \$12.48             | \$74.88               |
|                   |   |          |        | <b>Total:</b>             | <b>\$2,720,006.84</b> |                          | <b>\$244,146.00</b> |                     | <b>\$2,964,152.84</b> |

## CONTRACTOR'S COST PROPOSALS



# CHANGE ORDER PROPOSAL

The Penobscot Company 519 West St. Rockport, ME 04856

Office: (207) 236-6390 FAX: (207) 236-6261

|                 |   |                       |                    |
|-----------------|---|-----------------------|--------------------|
| <b>Project:</b> | Brunswick Airport Phase III,<br>Hangar 4 Improvements | <b>COP #</b>          | BEA-018R2          |
|                 |   | <b>From:</b>          | Mike Cassidy       |
| <b>To:</b>      | Suzy Sheppard, Hoyle Tanner                           | <b>Date:</b>          | May 2, 2018        |
|                 |   | <b>A/E Project #:</b> | 391128             |
| <b>RE:</b>      | Recommission Foam / Water Fire<br>System              | <b>Contract For:</b>  | General Contractor |

This Change Order Proposal contains an itemized quotation for changes in the Contract Sum and/or the Contract Time in response to the proposed modifications to the contract documents based on request from Owner.

Provide all labor, materials, and equipment necessary to complete the recommissioning of the Hangar 4 Foam / Water Fire Suppression System as noted below, and per attached documents.

- Replace remaining Pre-action Sprinkler Heads  
Labor: Add \$5,087.00  
15% OH&P, Labor: Add \$763.00  
  
Materials: Add \$2,286.00  
5% OH&P, Materials: Add \$114.00  
  
Lift: Add \$2,500.00  
  
Subtotal: Add \$10,750.00
- Repair remaining pipe leaks per email dated April 5, 2018  
Labor: Add \$1,604.00  
15% OH&P, Labor: Add \$241.00  
  
Materials: Add \$624.00  
5% OH&P, Materials: Add \$31.00  
  
Subtotal: Add \$2,500.00
- Complete foam remediation for Systems 3, 4, and 5  
Labor: Add \$14,635.00  
15% OH&P, Labor: Add \$2,195.00  
  
Equipment: Add \$2,067.00  
5% OH&P, Equipment: Add \$103.00  
  
Clean Harbor Cost: Add \$18,857.00  
5% OH&P, Clean Harbor Cost: Add \$943.00  
  
Lift: Add \$3,200.00  
  
Subtotal: Add \$42,000.00





# EASTERN FIRE PROTECTION

FIRE PROTECTION CONTRACTORS AND ENGINEERS

P.O. Box 1390 Auburn, Maine 04211-1390

207-784-1507 Fax: 207.782.0566

Mike Cassidy  
The Penobscot Company, INC.  
519 West Street  
Rockport, Maine 04856

March 19, 2018 – R4

RE: BEA Hangar Improvements Phase III  
Improve Hangar 4 and Reconstruct  
Specification Section 211339 – Foam Water Systems  
Fire Suppression System Scope & Pricing to Meet Current Standards

The following scope of work summarizes the major system modifications, procedures, and costs to achieve compliance with the 2011 edition of NFPA 409:

- ✓ • Prepare and submit plans, calculations, and descriptive data in accordance with NFPA standards 11, 13, 15, 16, & 409. (All work to comply with these standards).
- ✓ • Demo all existing monitor supply piping from the foam room out to each monitor in the hangar.
- ✓ • Decommission hose reels and hangar door systems per scope and credits detailed in the 02\21\18, R2 report.
- ~~• Perform NFPA 25 compliant flushing for the 5 roof systems (\$30,000 included in subtotal below).~~
- ✓ • Modify the 14" manifold in the foam room. Cut out the existing 4" welded outlets that feed the 3 monitor systems, and replace them with new 6" welded outlets.
- ✓ • Reconfigure the 5 roof pre-action foam\water systems, to wet water only systems. (Heat must be provided for the entire facility, throughout all seasons).
- ✓ • Install three 6" deluge risers, complete with new proportioners, hydraulic actuator valves, balancing valves and other necessary equipment.
- ~~• Run 3 new 6" supply lines from the foam room out to the existing monitor~~  
~~\* locations. As much as possible, new piping will be routed in locations previously~~  
~~occupied by the existing 3" supply lines.~~
- ✓ • Install new monitors and nozzles sized for the increased flow requirements.
- ~~• Replace recalled sprinklers for the 5 roof systems (\$10,750 included in subtotal below).~~
- ✓ • Prep hangar for foam testing. Protect walls, wiring, equipment, etc.
- ✓ • Commissioning - including a full discharge test in the hangar.
- ✓ • Contain & dispose AFFF in accordance with applicable regulatory requirements
- ✓ • Provide training, OM manuals, and as-built drawings.
- Warranty all new work and equipment for 1 year

~~Subtotal: \$216,000.00~~

\* This work will be done under a separate  
C.O., so the work can be completed before  
the ACT ceiling needs to be installed.  
(See COP # BEA-018.1)

\$175,250.00  
Deduct ~~(\$6,500.00)~~  

---

\$168,750.00

~~Repair Work Completed Through 01/17/2018; Subtotal: \$7,400.00.~~  
~~The activities and cost details for this item were provided in the first report dated 01/24/18.~~

~~Repair 14" underground flange connections~~  
~~(See previous report for details) Subtotal: \$2,600.00~~

**Potential Risk of Additional Costs**

Any existing equipment that is retained and does not perform properly during the proportioning tests will need to be repaired or replaced. Please note that this line item doesn't include any contingency costs for the foam concentrate pumping system since this equipment performed properly when we ran it recently. Although we have no reason to expect the pumping equipment to fail, we also cannot guarantee it will continue to function properly.

**Recommended Contingency Budget: \$10,000.00**

~~Repair Roof System Leaks~~

- ~~• One of the pre-action systems did not hold air pressure even after the missing heads were installed. The cause(s) will need to be found and corrected.~~

~~Recommended Contingency Budget: \$3,000.00~~

~~Total for all Line Items Above: \$239,000.00~~

~~Treat & Dispose any Waste Flushing Water Containing AFFF Residue~~

~~(See previous report for additional details)~~

~~For the following potential cost ranges, the low number would apply if only one system has foam residue, and the duration of any foaming would be momentary. The high number would apply if every gallon flowed through every system needed to be treated.~~

~~Order of Magnitude Range for Containment and Treatment of Potential Foam Discharges: \$13,500 to \$270,000~~

**Schedule & Duration**

Eight weeks are required to complete the work above - from the date of a notice to proceed.

Don't hesitate to contact me with any questions or concerns,

Sincerely,

Marc Tardif  
President



CONSULTANT'S REVIEW OF  
CONTRACTOR PROPOSALS



## MEMORANDUM

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**To:** Mike Cassidy, The Penobscot Company, Inc.  
Marty McMahon, Brunswick Executive Airport  
Tim LeSiege, Maine Department of Transportation  
Luke Garrison, Federal Aviation Administration

**From:** Jeff Luy, AIA

**Date:** September 20, 2018

**Re:** Hangar Improvements, Phase III  
Improve Hangar 4 & End Area Alterations  
AIP# 3-23-0056-024-2016

---

### **Cost Proposal #18 R2 – Recommission Foam / Water Fire System**

#### Background:

Modifications to the existing foam water fire suppression system in Hangar 4 are required to achieve full compliance with the current edition of NFPA 409. This proposal provides pricing to bring the system into compliance.

#### Discussion:

The Penobscot Company's proposed price of \$244,146 includes labor and materials to bring the system into compliance with NFPA 409. The material and labor charges were broken down by subcontractor. The labor charge is \$97,882.00. Materials charges are \$102,882.00. Lift and equipment rental charges are \$13,700. Contractor and subcontractor mark-ups total \$29,682.

Cost Justification:

Our estimate for the work is as follows:

Labor

|   |           |
|---|-----------|
| Replace sprinkler heads (80 hours @ \$65/hr)              | \$ 5,200  |
| Foam remediation (160 hours @ \$65/hr)                    | \$ 10,400 |
| Repair leaks and foam remediation (90 hours @ \$65/hr)    | \$ 5,850  |
| Demo monitor / hose reel piping (80 hours @ \$65/hr)      | \$ 5,200  |
| Piping fabrication and installation (420 hours @ \$65/hr) | \$ 27,300 |
| Protect hanger for foam test (40 hours @ \$65/hr)         | \$ 2,600  |
| Engineering & Approvals (280 hours @ \$125)               | \$ 35,000 |
| General Contractor supervision (120 hours @ \$75/hr)      | \$ 9,000  |

|              |                   |
|--------------|-------------------|
| Total Labor: | \$ 100,555        |
| 15% Mark-up  | \$ 15,083         |
| Subtotal     | <b>\$ 115,633</b> |

Materials

|                           |           |
|---------------------------|-----------|
| Sprinkler heads           | \$ 2,496  |
| Clean Harbor Disposal     | \$ 35,000 |
| Repair pipe leaks         | \$ 2,500  |
| Piping and accessories    | \$ 22,000 |
| Prep hanger for foam test | \$ 2,800  |
| Foam                      | \$ 35,000 |
| Lift & Equipment          | \$ 13,000 |

|                 |                   |
|-----------------|-------------------|
| Total Materials | \$ 112,796        |
| 5% Mark-Up      | \$ 5,640          |
| SubTotal        | <b>\$ 118,436</b> |

|                           |                   |
|---------------------------|-------------------|
| Total Labor and Materials | <b>\$ 234,069</b> |
| 5% GC Mark-up             | <u>\$ 11,703</u>  |
| Total                     | <b>\$ 245,772</b> |

The contractor's total price is consistent with our estimate for the value of the work. Therefore we find the proposed price of \$244,146 to be fair and reasonable.

With this memo and approval of an associated change order the Payment Item, as listed below, will be added to the project:

|         |                                      |          |           |
|---------|--------------------------------------|----------|-----------|
| Item #1 | Recommission Foam /Water Fire System | Lump Sum | \$244,146 |
|---------|--------------------------------------|----------|-----------|



## CHANGE ORDER PROPOSAL

The Penobscot Company 519 West St. Rockport, ME 04856

Office: (207) 236-6390 FAX: (207) 236-6261

|                 |   |                       |                    |
|-----------------|---|-----------------------|--------------------|
| <b>Project:</b> | Brunswick Airport Phase III,<br>Hangar 4 Improvements | <b>COP #</b>          | BEA-018R2          |
|                 |   | <b>From:</b>          | Mike Cassidy       |
| <b>To:</b>      | Suzy Sheppard, Hoyle Tanner                           | <b>Date:</b>          | May 2, 2018        |
|                 |   | <b>A/E Project #:</b> | 391128             |
| <b>RE:</b>      | Recommission Foam / Water Fire<br>System              | <b>Contract For:</b>  | General Contractor |

This Change Order Proposal contains an itemized quotation for changes in the Contract Sum and/or the Contract Time in response to the proposed modifications to the contract documents based on request from Owner.

Provide all labor, materials, and equipment necessary to complete the recommissioning of the Hangar 4 Foam / Water Fire Suppression System as noted below, and per attached documents.

- Replace remaining Pre-action Sprinkler Heads
  - Labor: Add \$5,087.00
  - 15% OH&P, Labor: Add \$763.00
  - Materials: Add \$2,286.00
  - 5% OH&P, Materials: Add \$114.00
  - Lift: Add \$2,500.00
  - Subtotal: Add \$10,750.00
- Repair remaining pipe leaks per email dated April 5, 2018
  - Labor: Add \$1,604.00
  - 15% OH&P, Labor: Add \$241.00
  - Materials: Add \$624.00
  - 5% OH&P, Materials: Add \$31.00
  - Subtotal: Add \$2,500.00
- Complete foam remediation for Systems 3, 4, and 5
  - Labor: Add \$14,635.00
  - 15% OH&P, Labor: Add \$2,195.00
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  - 5% OH&P, Equipment: Add \$103.00
  - Clean Harbor Cost: Add \$18,857.00
  - 5% OH&P, Clean Harbor Cost: Add \$943.00
  - Lift: Add \$3,200.00
  - Subtotal: Add \$42,000.00



*Cost Breakdown, Continued*

• ~~Contingency for potential risk of additional costs (see attached scope) Add \$10,000.00~~

• Bring entire System into compliance with

2011 Edition of NFPA 409 (see attached scope) Design / Engineering Labor: Add \$35,218.00

15% OH&P, Design / Engineering Labor: Add \$5,282.00

Fabrication Labor: Add \$13,044.00

15% OH&P, Fabrication Labor: Add \$1,956.00

Field Labor: Add \$19,348.00

15% OH&P, Field Labor: Add \$2,902.00

Piping Materials: Add \$16,191.00

5% OH&P, Piping Materials: Add \$809.00

Foam Material: Add \$49,524.00

5% OH&P, Foam Material: Add \$2,476.00

Clean Harbor Cost: Add \$13,333.00

5% OH&P, Clean Harbor Cost: Add \$667.00

Rental Equipment: Add \$8,000.00

Subtotal: Add \$168,750.00

Subtotal (includes EFP's OH&P):

*224,000*  
Add \$234,000.00

TPC OH&P @ 5%:

Add \$11,700.00 *11,200*

TPC General Conditions:

*24,351 - 15,405 =  
CREDIT*

~~Add \$24,351.00~~ *8,946*

**TOTAL COP: ~~ADD \$270,051.00~~**

*244,146*

Attached supporting information from  Subcontractor  Supplier  \_\_\_\_\_  \_\_\_\_\_

Reason for Change: Owner Requested

Does the proposed change involve a change in contract sum?  Yes  No

Add \$270,051.00

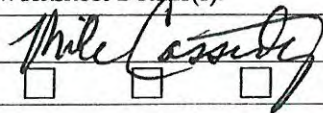
Does the proposed change involve a change in contract time?  Yes  No

Add 8 Weeks

Attached Pages:  Proposal worksheet summary:

Proposal worksheet Details(s):

Signed by: Mike Cassidy



Copies:  Architect       File

**CHANGE ORDER**

**ORDER NO.:** Nine (9)  
**DATE:** April 22, 2019  
**NAME OF PROJECT:** Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
AIP 3-23-0056-031-2018 (increase to scope included in supplemental grant)  
**OWNER:** Midcoast Regional Redevelopment Authority  
Brunswick Executive Airport  
Brunswick, ME 04011  
**CONTRACTOR:** The Penobscot Company, Inc.  
519 West Street  
Rockport, ME 04856

---

You are hereby requested to comply with the following changes to the CONTRACT DOCUMENTS:

**DESCRIPTION**

Item No. 1 – Excavate 14-inch Water Valve to determine problem with valve (COP#25).

Item No. 1 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$2,467.50

This action does not add days to the Contract.

Item No. 2 – Continuation of 14-inch Valve Excavation (COP#26).

Item No. 2 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$5,732.31

This action adds an additional 51 days to the Contract.

Item No. 3 – Replace Float Valve at Fire Pump Cistern (COP#27) – 88% ELIGIBLE.

Item No. 3 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$15,246.00

This is the eligible portion of the cost proposal.

This action adds an additional 137 non-consecutive days to the Contract.

Item No. 4 – Replace Float Valve at Fire Pump Cistern (COP#27) – 12% INELIGIBLE.

Item No. 4 is the addition of Item H-001-9B, Recommission Foam System, Ineligible Work  
(Grant 2), for the lump sum amount of: \$2,079.00

This action does not add days to the Contract.

**JUSTIFICATION**

Item No. 1 – Excavate 14-inch Water Valve to Determine Problem with Valve (COP#25).

Additional work is required to investigate a 14-inch water valve on the east side of 74 Orion Street to see why it is not operating properly. The Contractor is proposing additional costs to obtain a Dig Safe permit and to excavate the existing gate valve.

The Penobscot Company's cost proposal COP # BEA-025 is attached.

The Consultant finds the proposal to be fair and reasonable. A justification memo is attached.

Item No. 2 – Continuation of 14-inch Valve Excavation (COP#26).

Additional labor, materials and equipment necessary to continue excavation of the 14-inch water valve and repair it with a new stem and fabricated gate box.

The Penobscot Company's cost proposals COP # BEA-026 is attached.

The Consultant finds the proposal to be fair and reasonable. A justification memo is attached.

Item No. 3 – Replace Float Valve at Fire Pump Cistern (COP#27) – 88% ELIGIBLE, and  
Item No. 4 – Replace Float Valve at Fire Pump Cistern (COP#27) – 12% INELIGIBLE.

While doing a flow test for the Hangar 4 high bay sprinkler system, an issue arose with the auto fill valve and float that controls the level of water in the cistern below Building 295. The float valve will not close so the water supply to the cistern will not shut off. The float valve is very stiff and will not operate when there is water pressure on it. Without this fill valve operating properly the system will not perform as needed to provide fire suppression to Hangar 4 and the other hangars on the system. This was an unknown issue until this flow test was performed. This needs to be fixed as soon as possible to ensure that buildings that use the system are protected.

COP #27 is split into two items for the following reason: Along with Hangars 4, 5 and 6, the Building 295 fire protection system also serves the fire suppression needs for Mölnlycke Manufacturing, a company located on MRRA's property known as Brunswick Landing. The portion of the project serving Mölnlycke is ineligible for AIP funding. The percentage of ineligibility was calculated based on area of the pipe entering the building, which is considered an industry standard for making such determinations. The calculations resulted in 88% eligible/12% ineligible. The calculations are attached to this change order.

The Penobscot Company's cost proposals COP # BEA-027 is attached.

The Consultant finds the proposal to be fair and reasonable. The time extension is due to negotiations and scoping of the work as well as lead time for the materials. A justification memo is attached.

**SUMMARY OF CHANGES**

Modifications to Pay Items:

|                                     |              |
|-------------------------------------|--------------|
| <u>H-001-9A Modification:</u>       | +\$23,445.81 |
| Contract Amount (revised in CO #7): | \$244,146.00 |
| New Contract Amount:                | \$267,591.81 |
| <br>                                |              |
| <u>H-001-9B Addition:</u>           | +\$2,079.00  |
| Contract Amount:                    | \$0.00       |
| New Contract Amount:                | \$2,079.00   |

Contract Modification Summary:

|            |              |
|------------|--------------|
| Item No. 1 | +\$2,467.50  |
| Item No. 2 | +\$5,732.31  |
| Item No. 3 | +\$15,246.00 |
| Item No. 4 | +\$2,079.00  |

**Total Change Order No. 9** **+\$25,524.81**

|                                       |                      |
|---------------------------------------|----------------------|
| Contract Price (Original plus CO#1-8) | \$2,964,488.84       |
| Total Change Order No. 9              | <u>+ \$25,524.81</u> |

**New Contract Price** **\$2,990,013.65**

The proposed change is not an alternate bid.

The proposed change does not reduce the size of the eligible project.

The proposed change does not affect other prime contractors.

The proposed change does not require consent of surety and separate payment and performance bonds.

The proposed change will not require new insurance certificates.

The proposed change affects the contract period. The change order adds a total of 210 days to the contract time associated with the fire suppression work added under Change Order #7. This increases the contract days for the fire suppression work to **244 non-consecutive calendar days**.

Item No. 1 adds 51 calendar days and extends the date of completion to February 6, 2019.

Item No. 2 adds 137 calendar days from a Notice To Proceed date of March 20, 2019 to the new date of completion of **August 3, 2019**.

This document shall become an amendment to the Contract and all provisions of the Contract will apply thereto.


Approvals Required:

To be effective, this Order must be approved by the Owner if it changes the scope or objective of the PROJECT, or as may otherwise be required by the SUPPLEMENTAL GENERAL PROVISIONS.

Agreed to by:

 4/24/2019  
The Penobscot Company, Inc. (Contractor) Date

Recommended by:

 4/24/2019  
Hoyle, Tanner & Associates, Inc. (Engineer) Date

Approved by:

 8/7/19  
Midcoast Regional Redevelopment Authority (Owner) Date

Approved by:

\_\_\_\_\_  
Maine Department of Transportation Date

Approved by:

\_\_\_\_\_  
US DOT - Federal Aviation Administration Date

Client: Midcoast Regional Redevelopment Authority  
 Airport: Brunswick Executive Airport  
 Project: Hangar Improvements, Phase III - Improve Hangar 4 & 5 End Area Alteration  
 AIP: 3-23-0056-024-2016

| Base Bid Item No. | Designation   | Quantity |        | Amount per Contract Award |                       | Adjustments per CO No. 5 |                    | New Contract Amount |                       |
|-------------------|---|----------|--------|---------------------------|-----------------------|--------------------------|--------------------|---------------------|-----------------------|
|                   |   | Unit     | Amount | Per Unit                  | Amount                | Per Unit                 | Amount             | Per Unit            | Amount                |
| G-001-1           | Mobilization (CO #1)  | LS       | 1      | \$73,419.00               | \$73,419.00           | \$0.00                   | \$0.00             | \$73,419.00         | \$73,419.00           |
| G-001-2           | MMP Compliance (CO #4)                                      | LS       | 1      | \$16,515.25               | \$16,515.25           | \$0.00                   | \$0.00             | \$16,515.25         | \$16,515.25           |
| G-001-3           | AsBuilt Survey  | LS       | 1      | \$5,200.00                | \$5,200.00            | \$0.00                   | \$0.00             | \$5,200.00          | \$5,200.00            |
| H-001-1           | Demolish Building Addition (CO #4)                          | LS       | 1      | \$277,399.90              | \$277,399.90          | \$0.00                   | \$0.00             | \$277,399.90        | \$277,399.90          |
| H-001-2           | Building Installation (CO #8)                               | LS       | 1      | \$1,830,824.52            | \$1,830,824.52        | \$0.00                   | \$0.00             | \$1,830,824.52      | \$1,830,824.52        |
| H-001-3           | Repair Concrete Floor (CO #1)                               | LS       | 1      | \$6,240.00                | \$6,240.00            | \$0.00                   | \$0.00             | \$6,240.00          | \$6,240.00            |
| H-001-4           | Interior Wall and Door Upgrades (CO #8)                     | LS       | 1      | \$150,157.89              | \$150,157.89          | \$0.00                   | \$0.00             | \$150,157.89        | \$150,157.89          |
| H-001-5           | Roof Drain Roof Repairs (CO #1)                             | LS       | 1      | \$14,071.00               | \$14,071.00           | \$0.00                   | \$0.00             | \$14,071.00         | \$14,071.00           |
| H-001-6           | Abandoned Heating Unit Removals (CO #1)                     | LS       | 1      | \$19,500.00               | \$19,500.00           | \$0.00                   | \$0.00             | \$19,500.00         | \$19,500.00           |
| H-001-7           | Replace Tunnel Exhaust Fan (CO #1)                          | LS       | 1      | \$3,526.00                | \$3,526.00            | \$0.00                   | \$0.00             | \$3,526.00          | \$3,526.00            |
| H-001-8           | Modify Eyewash/Shower and Condensing Unit (CO #3)           | LS       | 1      | \$47,915.00               | \$47,915.00           | \$0.00                   | \$0.00             | \$47,915.00         | \$47,915.00           |
| H-001-9           | Recommission Foam Systems                                   | LS       | 1      | \$76,960.00               | \$76,960.00           | \$0.00                   | \$0.00             | \$76,960.00         | \$76,960.00           |
| H-001-9A          | Recommission Foam System (Grant 2) (CO#7)(CO #9)            | LS       | 1      | \$244,146.00              | \$244,146.00          | \$23,445.81              | \$23,445.81        | \$267,591.81        | \$267,591.81          |
| H-001-9A          | Recommission Foam System, Ineligible Work (Grant 2) (CO #9) | LS       | 1      | \$0.00                    | \$0.00                | \$2,079.00               | \$2,079.00         | \$2,079.00          | \$2,079.00            |
| H-001-10          | Allowances Associated with the Foam-Water System            | Allow    | 1      | \$23,000.00               | \$23,000.00           | \$0.00                   | \$0.00             | \$23,000.00         | \$23,000.00           |
| H-001-11          | Paint Exterior Siding (BASE BID) (CO #5)                    | LS       | 1      | \$17,298.00               | \$17,298.00           | \$0.00                   | \$0.00             | \$17,298.00         | \$17,298.00           |
| H-001-12          | Paint Existing Siding (CO #1)                               | LS       | 1      | \$69,786.00               | \$69,786.00           | \$0.00                   | \$0.00             | \$69,786.00         | \$69,786.00           |
| H-001-13          | Exhaust Stack Modifications (CO #5)                         | LS       | 1      | \$14,824.00               | \$14,824.00           | \$0.00                   | \$0.00             | \$14,824.00         | \$14,824.00           |
| H-001-14          | Roof Heating Vents (CO #5)                                  | LS       | 1      | \$37,871.00               | \$37,871.00           | \$0.00                   | \$0.00             | \$37,871.00         | \$37,871.00           |
| P-152-1           | Unclassified Excavation                                     | CY       | 30     | \$36.40                   | \$1,092.00            | \$0.00                   | \$0.00             | \$36.40             | \$1,092.00            |
| P-152-2           | Bituminous Pavement Removal                                 | SY       | 1,000  | \$5.20                    | \$5,200.00            | \$0.00                   | \$0.00             | \$5.20              | \$5,200.00            |
| P-152-3           | Concrete Pavement Removal                                   | SY       | 320    | \$16.00                   | \$5,120.00            | \$0.00                   | \$0.00             | \$16.00             | \$5,120.00            |
| P-156-1           | Inlet Protection (CO #1)                                    | EA       | 2      | \$260.00                  | \$520.00              | \$0.00                   | \$0.00             | \$260.00            | \$520.00              |
| P-200-1           | MaineDOT Base Course, Type A                                | CY       | 125    | \$36.60                   | \$4,575.00            | \$0.00                   | \$0.00             | \$36.60             | \$4,575.00            |
| P-400-1           | MaineDOT HMA, Type 19mm                                     | TON      | 145    | \$125.00                  | \$18,125.00           | \$0.00                   | \$0.00             | \$125.00            | \$18,125.00           |
| P-603-1           | Tack Coat   | GAL      | 100    | \$5.20                    | \$520.00              | \$0.00                   | \$0.00             | \$5.20              | \$520.00              |
| M-001-1           | Pavement Painting   | SF       | 170    | \$3.12                    | \$530.40              | \$0.00                   | \$0.00             | \$3.12              | \$530.40              |
| M-001-2           | Signs   | EA       | 3      | \$26.00                   | \$78.00               | \$0.00                   | \$0.00             | \$26.00             | \$78.00               |
| M-001-3           | Wheel Stops   | EA       | 6      | \$12.48                   | \$74.88               | \$0.00                   | \$0.00             | \$12.48             | \$74.88               |
|                   |   |          |        | <b>Total:</b>             | <b>\$2,964,488.84</b> |                          | <b>\$25,524.81</b> |                     | <b>\$2,990,013.65</b> |

Hangars 4, 5, & 6 Fire Protection Renovations/Improvements - Construction Phase Services

Mölnlycke ineligibility calculations

5/15/2014

|           | Entrance Size * | Entrance Area | Ratio      |
|-----------|-----------------|---------------|------------|
| Hangar 4  | 14              | 153.94        | 24%        |
| Hangar 5  | 16              | 201.06        | 32%        |
| Hangar 6  | 16              | 201.06        | 32%        |
| Mölnlycke | 10              | 78.54         | <b>12%</b> |
|           | <b>56</b>       | <b>634.60</b> | 100%       |

Therefore 12% of project is ineligible for FAA funding

\* Industry standards are to use pipe size for billing purposes

## CONTRACTOR'S COST PROPOSALS









Home Office  
170 Kittyhawk Ave.  
P.O. Box 1390  
Auburn, ME 04210-1390  
207-784-1507



Satellite Office  
408 Harlow St.  
Bangor, ME 04401  
207-942-8014

## QUOTATION

**DATE:** February 27, 2019                      **FROM:** Frank P. Welch, Jr.

**TO:** The Penobscot Company                      **SUBJECT:** Brunswick Executive Airport  
519 West Street                                      Fire Pump Upgrade-Angle Float  
Rockport, ME 04856                                      Valve Replacement

**ATTENTION:** Mike Cassidy                      **EMAIL:** [msc@thepencogc.com](mailto:msc@thepencogc.com)

**PHONE:** (207) 236-6390

**FAX:** (207) 542-5485                      **QUOTATION:** *\$16,500.00*

### SCOPE

Replacement of the 8" flanged Angle Keckley Float Valve at the fire pump room. It is estimated that this work will take one day plus material to complete. **Please Note:** This proposal is predicated on the take out dimensions of the new valve matching the existing valve.

Should you find this quotation acceptable please return one signed and dated copy of this quotation along with your purchase order (if applicable) at your earliest convenience.

**Your scheduling contact will be Tom Vining.** Upon acceptance of this proposal please allow 4 to 6 weeks for scheduling of the work.

This proposal is valid for **30** days. If you find any of the information contained herein to be inaccurate, please inform me as soon as possible. Please call with any questions; we hope to have the opportunity to work with you on this project.

Accepted By: \_\_\_\_\_

Date: \_\_\_\_\_

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CONSULTANT'S REVIEW OF  
CONTRACTOR PROPOSALS



150 Dow Street  
Manchester, New Hampshire 03101  
603-669-5555  
603-669-4168 fax  
www.hoyletanner.com

## MEMORANDUM

To: **Mike Cassidy, The Penobscot Company**  
**Marty McMahon, Brunswick Executive Airport**  
**Tim LeSiege, Maine Department of Transportation**  
**Luke Garrison, Federal Aviation Administration**

From: **Suzy Sheppard, PE**

Date: **4/15/2019**

Re: **Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations.**  
**Brunswick Executive Airport**  
**AIP No. 3-23-0056-024-2016**  
**Hoyle, Tanner Project No. 391128**

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### Change Order Proposal #25 - Cost Justification

#### Background:

Additional work is required to investigate a 14-inch water valve on the east side of 74 Orion Street to see why it is not operating properly. The Contractor is proposing additional costs to obtain a Dig Safe permit and to excavate the existing gate valve.

#### Discussion:

Cost Proposal #25 requests a total of \$2,467.50 for Dig Safe to locate and mark underground utilities and for the subcontractor's crew to excavate the gate valve. An invoice from Dig Safe for \$450.00 is included with this memo. The cost of the excavation is \$1900.00. With a subtotal of \$2,350.00 and a 5% markup, the total is \$2,467.50.

The Penobscot Company's proposed price for the excavation of the gate valve includes the following:

Linkbelt 225 (or similar) with Operator  
Foreman  
Laborer  
6' Aluminum Manhole Trench Box  
Tool Truck

Cost Justification:

Our estimate of the work is as follows:

Labor

|                                |                  |
|--------------------------------|------------------|
| 1 Foreman (5 hours @ \$64/hr)  | \$ 320.00        |
| 1 Laborer (5 hours @ \$36/hr)  | \$ 180.00        |
| 1 Operator (5 hours @ \$45/hr) | \$ <u>225.00</u> |
| Total Labor:                   | \$ <u>725.00</u> |
| 15% Mark-up                    | \$ 108.75        |

Equipment

|   |                  |
|---|------------------|
| 6' Aluminum Manhole Trench Box (1 day @ \$70/day) | \$ 70.00         |
| Tool Truck (5 hours @ \$36/hr)                    | \$ 180.00        |
| Linkbelt 225 (5 hours @ \$127/hr)                 | \$ <u>635.00</u> |
|   | \$ 885.00        |

Total Labor and Equipment: \$1,718.75

Dig Safe Invoice: \$ 450.00

Subtotal: \$2,168.75

GC 5% Mark-up: \$ 108.00

Total: **\$ 2,276.75**

The Contractor's proposed price of \$2,467.50 is within approximately 8% of the estimated price of \$2,276.75, therefore the proposal is deemed fair and reasonable.

With this memo and approval of an associated change order, the Payment Item, as listed below, will be included in the project:



150 Dow Street  
 Manchester, New Hampshire 03101  
 603-669-5555  
 603-669-4168 fax  
 www.hoyletanner.com

# MEMORANDUM

To: **Mike Cassidy, The Penobscot Company**  
**Marty McMahon, Brunswick Executive Airport**  
**Tim LeSiege, Maine Department of Transportation**  
**Luke Garrison, Federal Aviation Administration**

From: **Suzy Sheppard, PE**

Date: **4/15/2019**

Re: **Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations.**  
**Brunswick Executive Airport**  
**AIP No. 3-23-0056-024-2016**  
**Hoyle, Tanner Project No. 391128**

## Change Order Proposal #26 - Cost Justification

### Background:

Cost Proposal #25 was for additional work required to investigate a 14-inch water valve on the east side of 74 Orion Street to see why it is not operating properly. Cost Proposal #26 is for labor, materials, and equipment necessary to continue excavation of the 14-inch water valve and repair it with a new stem and fabricated gate box.

### Discussion:

The Penobscot Company's proposed price is \$5,732.31 and includes the following:

#### Work Performed by Ray Labbe & Sons, Inc.

|                     |             |
|---------------------|-------------|
| Labor and Equipment | \$ 3,585.50 |
| Materials           | \$ 567.81   |

#### Work Performed by Clean Harbors Environmental Services

|            |             |
|------------|-------------|
| Dewatering | \$ 1,306.00 |
|------------|-------------|

|           |             |
|-----------|-------------|
| Subtotal: | \$ 5,459.31 |
|-----------|-------------|

|                             |           |
|-----------------------------|-----------|
| General Contractor mark-up: | \$ 273.00 |
|-----------------------------|-----------|

|        |             |
|--------|-------------|
| Total: | \$ 5,732.31 |
|--------|-------------|

Cost Justification:



Our estimate of the work is as follows:

Labor

|   |                  |
|---|------------------|
| 1 Foreman – Hazwoper 40 Certified (8 hours @ \$75/hr) | \$ 600.00        |
| 1 Laborer (8 hours @ \$36/hr)                         | \$ 288.00        |
| 1 Operator (8 hours @ \$45/hr)                        | \$ <u>360.00</u> |
| Total Labor:  | \$ 1,248.00      |
| 15% Mark-up   | \$ 187.00        |

Equipment

|  |                  |
|--|------------------|
| 6' Aluminum Manhole Trench Box (1 day @ \$70/day)    | \$ 70.00         |
| Tool Truck (8 hours @ \$36/hr)                       | \$ 288.00        |
| Volvo 140 (8 hours @ \$103/hr)                       | \$ 824.00        |
| Truck for Crushed Stone Delivery (2 hours @ \$84/hr) | \$ <u>168.00</u> |
| Total Equipment:                                     | \$ 1,350.00      |

Materials

|   |                  |
|---|------------------|
| 3/4" Crushed Stone (3.00 CY @ \$23.50/CY) | \$ 70.50         |
| Gate box bottom                           | \$ 67.00         |
| Gate box top                              | \$ 65.00         |
| Gate box cover                            | \$ 19.00         |
| 6" ductile iron                           | \$ <u>400.00</u> |
| Total Materials:                          | \$ 621.50        |
| 5% Mark-up                                | \$ 31.00         |

Total Labor and Equipment Ray Labbe & Sons: \$ 3,437.50

Clean Harbors Invoice: \$ 1,536.00

Subtotal: \$ 4,973.50

GC 5% Mark-up: \$ 249.00  
Total: \$ **5,222.50**

The Penobscot Company's proposed price of \$5,732.31 is within approximately 9.76% of the estimated price of \$5,222.50, therefore the proposal is deemed fair and reasonable.

With this memo and approval of an associated change order, the Payment Item, as listed below, will be included in the project:



## MEMORANDUM

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**To:** Mike Cassidy, The Penobscot Company, Inc.  
Marty McMahon, Brunswick Executive Airport  
Tim LeSiege, Maine Department of Transportation  
Luke Garrison, Federal Aviation Administration

**From:** Jeff Luy, AIA

**Date:** February 28, 2019

**Re:** Hangar Improvements, Phase III  
Improve Hangar 4 & End Area Alterations  
AIP# 3-23-0056-024-2016

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### Cost Proposal #27 – Replace Cistern Float Valve at Bldg 295

#### Background:

While doing a flow test for the Hangar 4 high bay sprinkler system, an issue arose with the auto fill valve and float that controls the level of water in the cistern below Bldg 295. The float valve will not close so the water supply to the cistern will not shut off. The float valve is very stiff and will not operate when there is water pressure on it. Without this fill valve operating properly the system will not perform as needed to provide fire suppression to Hangar 4 and the other hangars on the system. This was an unknown issue until this flow test was performed. This needs to be fixed as soon as possible to ensure that buildings that use the system are protected.

#### Discussion:

The Penobscot Company's proposed price is \$17,325.00 which includes the following:

|  |                  |
|--|------------------|
| Material cost for new float valve and float mechanism:             | \$ 14,395.00     |
| Labor cost for removal of old valve and installation of new valve: | \$ 1,760.00      |
| Freight and handling cost:   | \$ 345.00        |
| General Contractor mark-up:  | \$ <u>825.00</u> |
| Total:   | \$ 17,325.00     |

Cost Justification:

Our estimate for the work is as follows:

Labor

|  |                  |
|--|------------------|
| Water supply shut-off and draining (3 hours @ \$75/hr)         | \$ 225.00        |
| Existing valve and float mechanism removal (6 hours @ \$75/hr) | \$ 450.00        |
| New valve and float mechanism installation (8 hours @75/hr)    | \$ <u>600.00</u> |
| Total Labor:   | \$ 1,275.00      |
| 15% Mark-up  | \$ 191.00        |

Materials

|   |                    |
|---|--------------------|
| Keckley 8" angled float valve (Manufacturer's list price) | \$ 12,128.00       |
| Float mechanism and linkage parts                         | \$ <u>2,000.00</u> |
| Total Materials:  | \$ 14,128.00       |
| 5% Mark-up  | \$ 706.00          |

Total Labor and materials: **\$ 16,300.00**

|                       |           |
|-----------------------|-----------|
| GC 5% Mark-up:        | \$ 815.00 |
| Shipping and Handling | \$ 350.00 |

Total: **\$ 17,465.00**

The contractor's total price is consistent with our estimate for the value of the work. Therefore we find the proposed credit price of \$ 17,325.00 to be fair and reasonable.

With this memo and approval of an associated change order the Payment Item, as listed below, will be deducted from the project:

|         |   |          |             |
|---------|---|----------|-------------|
| Item #1 | Replace Cistern Float Valve at Bldg 295 | Lump Sum | \$17,325.00 |
|---------|---|----------|-------------|

**CHANGE ORDER**

**ORDER NO.:** Twelve (12)  
**DATE:** September 9, 2019  
**NAME OF PROJECT:** Hangar Improvements, Phase III - Improve Hangar 4 & End Area Alterations  
AIP 3-23-0056-031-2018 (increase to scope included in supplemental grant)  
**OWNER:** Midcoast Regional Redevelopment Authority  
Brunswick Executive Airport  
Brunswick, ME 04011  
**CONTRACTOR:** The Penobscot Company, Inc.  
519 West Street  
Rockport, ME 04856

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You are hereby requested to comply with the following changes to the CONTRACT DOCUMENTS:

**DESCRIPTION**

**Item No. 1 – Fire Pump Pressure Relief Valve Repairs (COP#30R2) – 88% ELIGIBLE.**

Item No. 1 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$10,375.00

This is the eligible portion of the cost proposal.

This action adds 39 days to the Contract.

**Item No. 2 – Fire Pump Pressure Relief Valve Repairs (COP#30R2) – 12% INELIGIBLE.**

Item No. 2 is an increase of Item H-001-9B, Recommission Foam System Ineligible Work,  
(Grant 2), for the lump sum amount of: \$1,415.00

This action does not add days to the Contract.

**Item No. 3 – Replace Cistern Float at Bldg. 295 (COP#33) – 88% ELIGIBLE.**

Item No. 3 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$3,049.00

This is the eligible portion of the cost proposal.

This action does not add days to the Contract.

**Item No. 4 – Replace Cistern Float at Bldg. 295 (COP#33) – 12% INELIGIBLE.**

Item No. 4 is an increase of Item H-001-9B, Recommission Foam System Ineligible Work,

(Grant 2), for the lump sum amount of: \$416.00

This action does not add days to the Contract.

Item No. 5 – Fire Alarm Pull Stations

Item No. 5 is an increase of Item H-001-9A, Recommission Foam System (Grant 2),  
for the lump sum amount of: \$6,355.00

This action does not add days to the Contract.

**JUSTIFICATION**

Item No. 1 – Fire Pump Pressure Relief Valve Repairs (COP#30R2) – 88% ELIGIBLE, and  
Item No. 2 – Fire Pump Pressure Relief Valve Repairs (COP#30R2) – 12% INELIGIBLE.

Existing pressure relief valves for existing fire pumps are not functioning correctly, resulting in low pressure in the supply main and inadequate water pressure and flow for Hangar 4 foam fire suppression system. Proposed work under Item No. 1 will install new rebuild kits for the four existing relief valves in Bldg. 295 and conduct water flow tests.

COP #30R2 is split between two pay items for the following reason: Along with Hangars 4, 5 and 6, the Building 295 fire protection system also serves the fire suppression needs for Mölnlycke Manufacturing, a company located on MRRA's property known as Brunswick Landing. The portion of the project serving Mölnlycke is ineligible for AIP funding. The percentage of ineligibility was calculated based on area of the pipe entering the building, which is considered an industry standard for making such determinations. The calculations resulted in 88% eligible/12% ineligible. The calculations are attached to this change order.

The Penobscot Company's cost proposal COP # BEA-030R2 for the amount of \$11,790.00 is attached.

The Consultant finds the proposal to be fair and reasonable. A justification memo is attached.

Item No. 3 – Replace Cistern Float at Bldg. 295 (COP#33) – 88% ELIGIBLE, and  
Item No. 4 – Replace Cistern Float at Bldg. 295 (COP#33) – 12% INELIGIBLE.

A new float ball, lever arm, and rod are required to complete the work to replace the auto fill valve that controls the level of water in the cistern below Bldg. 295. Replacement of the auto fill valve was approved under Change Order #9.

COP #33 is split between two pay items for the same reason as stated above in Item Nos. 1 and 2.

The Penobscot Company's cost proposals COP # BEA-033 for the amount of \$3,465.00 is attached.

The Consultant finds the proposal to be fair and reasonable. A justification memo is attached.

Item No. 5 – Fire Alarm Pull Stations (COP#35R2).

The Hangar 4 high-bay space contained an existing foam extinguishing system of which one component was a pipe system at the underside of the roof deck. This piping had open discharge heads which were actuated by heat detectors also located on the underside of the roof deck. This existing piping was

upgraded as work of this project to comply with NFPA codes to be a water system (no foam) actuated by heat detecting sprinkler heads, so the existing heat detectors are no longer needed. The existing foam sprinkler system will continue to discharge foam from existing cannons located at the floor level at the sides of the hangar. The foam cannons are activated by both existing wall mounted infrared heat detectors and ten existing wall mounted pull stations. The existing pull stations were discovered to be wired through the existing roof deck mounted heat detectors, some of which were found to be defective, which would prevent activation of the cannons. This proposal will rewire the pull stations with two control lines to connect directly to the fire alarm panel.

The Penobscot Company's cost proposal COP # BEA-035R2 is attached.

The Consultant finds the proposal to be fair and reasonable. A justification memo is attached.

### SUMMARY OF CHANGES

#### Modifications to Pay Items:

|  |               |
|--|---------------|
| <u>H-001-9A Modification (total eligible):</u>   | + \$19,779.00 |
| Previous Item Amount:                            | \$267,591.81  |
| New Item Amount:                                 | \$287,370.81  |
| <br>   |               |
| <u>H-001-9B Modification (total ineligible):</u> | + \$1,831.00  |
| Previous Item Amount:                            | \$2,079.00    |
| New Item Amount:                                 | \$3,910.00    |

#### Contract Modification Summary:

|                                  |                      |
|----------------------------------|----------------------|
| Item No. 1                       | + \$10,375.00        |
| Item No. 2                       | + \$1,415.00         |
| Item No. 3                       | + \$3,049.00         |
| Item No. 4                       | + \$416.00           |
| Item No. 5                       | + \$6,355.00         |
| <br>                             |                      |
| <b>Total Change Order No. 12</b> | <b>+ \$21,610.00</b> |

|  |                       |
|--|-----------------------|
| Contract Price (Original plus CO#1-11) | \$2,989,410.48        |
| Total Change Order No. 12              | <u>+ \$21,610.00</u>  |
| <br>                                   |                       |
| <b>New Contract Price</b>              | <b>\$3,011,020.48</b> |

The proposed change is not an alternate bid.

The proposed change does not reduce the size of the eligible project.

The proposed change does not affect other prime contractors.

The proposed change does not require consent of surety and separate payment and performance bonds.

The proposed change will not require new insurance certificates.

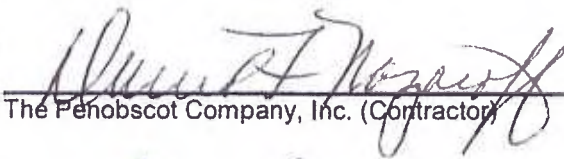
The proposed change affects the contract period. The change order adds a total of **39 days** to the contract time associated with the fire suppression work added under Change Order #7. This increases the contract days for the fire suppression work to **283 non-consecutive calendar days** and extends the contract to the new date of completion of **September 11, 2019**.

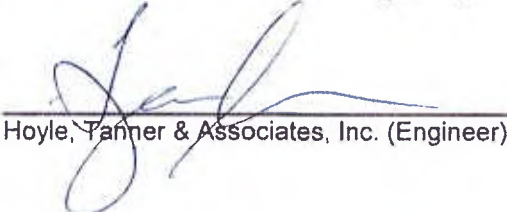
This document shall become an amendment to the Contract and all provisions of the Contract will apply thereto.

Approvals Required:

To be effective, this Order must be approved by the Owner if it changes the scope or objective of the PROJECT, or as may otherwise be required by the SUPPLEMENTAL GENERAL PROVISIONS.

Signatures required:

Agreed to by:  9/16/2019  
The Penobscot Company, Inc. (Contractor) Date

Recommended by:  9/16/19  
Hoyle, Tanner & Associates, Inc. (Engineer) Date

Approved by:  9/22/19  
Midcoast Regional Redevelopment Authority (Owner) Date

By email only:

Reviewed by: \_\_\_\_\_  
Maine Department of Transportation Date

Reviewed by: \_\_\_\_\_  
US DOT - Federal Aviation Administration Date



REVISED PAY ITEM TABULATION - CO #12

Client: Midcoast Regional Redevelopment Authority  
 Airport: Brunswick Executive Airport  
 Project: Hangar Improvements, Phase III - Fire Suppression System  
 AIP: 3-23-0056-031-2018

| Base Bid Item No. | Designation  | Quantity |        | Amount per Contract Award |                       | Adjustments per CO No. 12 |                    | New Contract Amount |                       |
|-------------------|--|----------|--------|---------------------------|-----------------------|---------------------------|--------------------|---------------------|-----------------------|
|                   |  | Unit     | Amount | Per Unit                  | Amount                | Per Unit                  | Amount             | Per Unit            | Amount                |
| G-001-1           | Mobilization (CO #1)   | LS       | 1      | \$73,419.00               | \$73,419.00           | \$0.00                    | \$0.00             | \$73,419.00         | \$73,419.00           |
| G-001-2           | MMP Compliance (CO #4)   | LS       | 1      | \$16,515.25               | \$16,515.25           | \$0.00                    | \$0.00             | \$16,515.25         | \$16,515.25           |
| G-001-3           | AsBuilt Survey (CO #11)  | LS       | 1      | \$0.00                    | \$0.00                | \$0.00                    | \$0.00             | \$0.00              | \$0.00                |
| H-001-1           | Demolish Building Addition (CO #4)   | LS       | 1      | \$277,399.90              | \$277,399.90          | \$0.00                    | \$0.00             | \$277,399.90        | \$277,399.90          |
| H-001-2           | Building Installation (CO #8)  | LS       | 1      | \$1,830,824.52            | \$1,830,824.52        | \$0.00                    | \$0.00             | \$1,830,824.52      | \$1,830,824.52        |
| H-001-3           | Repair Concrete Floor (CO #1)  | LS       | 1      | \$6,240.00                | \$6,240.00            | \$0.00                    | \$0.00             | \$6,240.00          | \$6,240.00            |
| H-001-4           | Interior Wall and Door Upgrades (CO #8)                                    | LS       | 1      | \$150,157.89              | \$150,157.89          | \$0.00                    | \$0.00             | \$150,157.89        | \$150,157.89          |
| H-001-5           | Roof Drain Roof Repairs (CO #1)  | LS       | 1      | \$14,071.00               | \$14,071.00           | \$0.00                    | \$0.00             | \$14,071.00         | \$14,071.00           |
| H-001-6           | Abandoned Heating Unit Removals (CO #1)                                    | LS       | 1      | \$19,500.00               | \$19,500.00           | \$0.00                    | \$0.00             | \$19,500.00         | \$19,500.00           |
| H-001-7           | Replace Tunnel Exhaust Fan (CO #1)   | LS       | 1      | \$3,526.00                | \$3,526.00            | \$0.00                    | \$0.00             | \$3,526.00          | \$3,526.00            |
| H-001-8           | Modify Eyewash/Shower and Condensing Unit (CO #3)                          | LS       | 1      | \$47,915.00               | \$47,915.00           | \$0.00                    | \$0.00             | \$47,915.00         | \$47,915.00           |
| H-001-9           | Recommission Foam Systems  | LS       | 1      | \$76,960.00               | \$76,960.00           | \$0.00                    | \$0.00             | \$76,960.00         | \$76,960.00           |
| H-001-9A          | Recommission Foam System (Grant 2) (CO #12 Items 1 and 3)                  | LS       | 1      | \$267,591.81              | \$267,591.81          | \$19,779.00               | \$19,779.00        | \$287,370.81        | \$287,370.81          |
| H-001-9B          | Recommission Foam System, Ineligible Work (Grant 2) (CO #12 Items 2 and 4) | LS       | 1      | \$2,079.00                | \$2,079.00            | \$1,831.00                | \$1,831.00         | \$3,910.00          | \$3,910.00            |
| H-001-10          | Allowances Associated with the Foam-Water System (CO #11)                  | Allow    | 1      | \$14,430.00               | \$14,430.00           | \$0.00                    | \$0.00             | \$14,430.00         | \$14,430.00           |
| H-001-11          | Paint Exterior Siding (BASE BID) (CO #5)                                   | LS       | 1      | \$17,298.00               | \$17,298.00           | \$0.00                    | \$0.00             | \$17,298.00         | \$17,298.00           |
| H-001-12          | Paint Existing Siding (CO #1)  | LS       | 1      | \$69,786.00               | \$69,786.00           | \$0.00                    | \$0.00             | \$69,786.00         | \$69,786.00           |
| H-001-13          | Exhaust Stack Modifications (CO #5)  | LS       | 1      | \$14,824.00               | \$14,824.00           | \$0.00                    | \$0.00             | \$14,824.00         | \$14,824.00           |
| H-001-14          | Roof Heating Vents (CO #5)   | LS       | 1      | \$37,871.00               | \$37,871.00           | \$0.00                    | \$0.00             | \$37,871.00         | \$37,871.00           |
| H-001-15          | Condensate Pump (CO #10)   | LS       | 1      | \$2,801.83                | \$2,801.83            | \$0.00                    | \$0.00             | \$2,801.83          | \$2,801.83            |
| H-001-16          | Wash Line OS&Y Valve (CO #10)  | LS       | 1      | \$10,365.00               | \$10,365.00           | \$0.00                    | \$0.00             | \$10,365.00         | \$10,365.00           |
| P-152-1           | Unclassified Excavation  | CY       | 30     | \$36.40                   | \$1,092.00            | \$0.00                    | \$0.00             | \$36.40             | \$1,092.00            |
| P-152-2           | Bituminous Pavement Removal  | SY       | 1,000  | \$5.20                    | \$5,200.00            | \$0.00                    | \$0.00             | \$5.20              | \$5,200.00            |
| P-152-3           | Concrete Pavement Removal  | SY       | 320    | \$16.00                   | \$5,120.00            | \$0.00                    | \$0.00             | \$16.00             | \$5,120.00            |
| P-156-1           | Inlet Protection (CO #1)   | EA       | 2      | \$260.00                  | \$520.00              | \$0.00                    | \$0.00             | \$260.00            | \$520.00              |
| P-200-1           | MaineDOT Base Course, Type A   | CY       | 125    | \$36.60                   | \$4,575.00            | \$0.00                    | \$0.00             | \$36.60             | \$4,575.00            |
| P-400-1           | MaineDOT HMA, Type 19mm  | TON      | 145    | \$125.00                  | \$18,125.00           | \$0.00                    | \$0.00             | \$125.00            | \$18,125.00           |
| P-603-1           | Tack Coat  | GAL      | 100    | \$5.20                    | \$520.00              | \$0.00                    | \$0.00             | \$5.20              | \$520.00              |
| M-001-1           | Pavement Painting  | SF       | 170    | \$3.12                    | \$530.40              | \$0.00                    | \$0.00             | \$3.12              | \$530.40              |
| M-001-2           | Signs  | EA       | 3      | \$26.00                   | \$78.00               | \$0.00                    | \$0.00             | \$26.00             | \$78.00               |
| M-001-3           | Wheel Stops  | EA       | 6      | \$12.48                   | \$74.88               | \$0.00                    | \$0.00             | \$12.48             | \$74.88               |
|                   |  |          |        | <b>Total:</b>             | <b>\$2,989,410.48</b> |                           | <b>\$21,610.00</b> |                     | <b>\$3,011,020.48</b> |

Hangars 4, 5, & 6 Fire Protection Renovations/Improvements - Construction Phase Services

Mölnlycke ineligibility calculations

5/15/2014

|           | Entrance Size * | Entrance Area | Ratio      |
|-----------|-----------------|---------------|------------|
| Hangar 4  | 14              | 153.94        | 24%        |
| Hangar 5  | 16              | 201.06        | 32%        |
| Hangar 6  | 16              | 201.06        | 32%        |
| Mölnlycke | 10              | 78.54         | <b>12%</b> |
|           | <b>56</b>       | <b>634.60</b> | 100%       |

Therefore 12% of project is ineligible for FAA funding

\* Industry standards are to use pipe size for billing purposes

## CONTRACTOR'S COST PROPOSALS



# EASTERN FIRE PROTECTION

FIRE PROTECTION CONTRACTORS AND ENGINEERS  
P.O. Box 1390 Auburn, Maine 04211-1390

207-784-1507 Fax: 207.782.0566

May 21, 2019

Mike Cassidy  
The Penobscot Company Inc.

**Subject:** BEA Hangar Improvements Phase III  
Improve hangar 4 and Reconstruct  
Specification Section 211339 – Foam Water Systems  
Change Request to Repair Four Pump Pressure Relief Valves

Mike,

In response to your request, following you'll find pricing and a detailed scope of work associated with this change order request to: Repair the existing fire pump main line relief valves currently servicing Hangar 4.

**Background:**

The base scope of work under our contract includes water supply testing to confirm supplies can meet the new system's flow and pressure requirements. On 11/01/18, Eastern Fire tested the water supply available to the hangar and concluded it wasn't performing to historical data and consequently insufficient to meet the new system demands. Historical data from previous Hangar 4 projects indicated 8700 GPM available at a residual pressure of 155 PSI. The 11/01/18 test resulted with only 4130 GPM @ 115 PSI.

A process of elimination approach was used to identify the cause(s) for the drastic reduction in water supply flow and pressures. Following is the timeline and sequence of events used to determine causes and remedial work necessary to restore the supply to its intended capacity:

1. Owner's personnel checked all pump house and underground supply valves to confirm open position and proper operation. An outside post indicator valve (PIV) servicing Hangar 4 was found to be partially closed and inoperable. The owner moved forward with repairs clearing the way for another test.
2. Eastern Fire conducted a second flow test on 01/18/19 which produced better results, but still fell short of the hangar demands and historical data. (4248 GPM @ 150 PSI).
3. On 02/05/19 Eastern Fire tested all four fire pumps and was able to confirm that each operated within its flow and pressure ratings. This test confirmed the pumps were not the cause for the reduced supply performance and cast the likely cause of the problem onto the pumps' mainline pressure relief valves. The purpose of the relief valves is to prevent development of pressures in excess of piping component ratings. The potential for excess pressure conditions occurs at low

flow ranges, and the valves limit pressure by short cycling (discharging) water back into the cistern. As flow requirements increase, the valves are designed to close proportionately so less water is wasted back to the cistern and directed to the hangar.

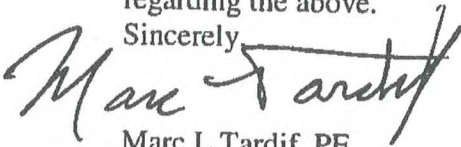
4. On 02/22/19, a third flow test was conducted at Hangar 4 with the relief valves offline. This test produced acceptable results consistent with historical data, and adequate to meet hangar 4 requirements. This test concluded a problem exists with the relief valves.
5. Subsequent to the 02/22/19 test, Eastern Fire performed a visual examination of the relief valves and found the rubber gaskets and seats needing replacement.

**Cost Summary:**

- A. Field Labor - 01/08/19 (Item 2 above) \$1,680
- B. Field Labor - 02/05/19 (Item 3 above) \$1,920
- C. Field Labor - 02/22/19 (Item 4 above) \$720
- D. Engineering Labor - (Data analysis related to A, B, & C) \$1,200
- E. Subcontractor Labor - (Cla-Val Rep onsite service) \$2,200
- F. Material - (Ref attached vendor quote) \$3,509.00
- G. **Total:** \$11,790.00

Please don't hesitate to contact me with any questions or concerns you may have regarding the above.

Sincerely,



Marc L Tardif, PE  
Fire Protection Engineer



# QUOTATION

| CUSTOMER   |
|--|
| Eastern Fire<br>P.O. Box 1390<br>Auburn, ME 04211-1390 |

280 Heritage Ave.  
 Unit F  
 Portsmouth, NH 03801  
 PH: 603-319-4171  
 pete@rtstearns.com

| DATE                          | QUOTE # |
|-------------------------------|---------|
| 3/13/2019                     | 11637   |
| PROJECT                       |         |
| Rebuild Kit Pricing for 2050B |         |

| DESCRIPTION  | QTY           | COST   | TOTAL:            |
|--|---------------|--------|-------------------|
| Rebuild Kit and Parts Pricing for 2050B-5KG1 - EFP BEA Job   |               |        |                   |
| (4) 6" KOL seat and O ring<br>KOL seat SS with Teflon coating - p/n 20862203E<br><i>NOT REQUIRED</i>   |               |        |                   |
| Seat -ring - p/n 00851G,<br><i>REQUIRED - 100% AMERICAN MADE</i>   | 4             | 3.456  | 13.82             |
| (4) Replacement rubber diaphragms and discs for the main valves and rubber kit for the inline 81-01 check valves:<br>6" Main Valve Rubber Repair Kit, p/n 2221717J<br><i>REQUIRED - 100% AMERICAN MADE</i> | 4             | 278.20 | 1,112.80          |
| 3/8" 81-02 check valve Rubber Repair Kit, p/n 9169801k<br><i>MADE</i>  | 4             | 78.26  | 313.04            |
| For the 6" 2050B-4KG-1 as shown in the picture by email, repair kits for Fresh Water are as follows:<br>Main Valve: p/n 2221717J<br>CRL Control: p/n 9170033G<br><i>REQUIRED - 100% AMERICAN MADE</i>      | 4             | 334.00 | 1,336.00          |
|  | 4             | 104.00 | 416.00            |
| Prices do not include freight or tax. Lead-time is approximately 1 to 2 weeks. <i>FREIGHT ESTIMATE</i>   |               |        | 150               |
| <i>SUBTOTAL</i>  |               |        | \$3,342.00        |
| <i>5% MARKUP</i>   |               |        | \$167.00          |
| <b>** Quotation is Good for 30 Days **</b>   | <b>TOTAL:</b> |        | <b>\$3,509.00</b> |

Signature \_\_\_\_\_







Home Office  
170 Kittyhawk Ave.  
P.O. Box 1390  
Auburn, ME 04210-1390  
207-784-1507

# EASTERN FIRE

Fire Protection Contractors and Engineers  
www.easternfiregroup.com

Satellite Office  
408 Harlow St.  
Bangor, ME 04401  
207-942-8014

## QUOTATION

**DATE:** July 23, 2019                      **FROM:** Frank P. Welch, Jr.  
**TO:** The Penobscot Company              **SUBJECT:** Brunswick Executive Airport  
519 West Street                              Fire Pump Upgrade  
Rockport, ME 04856                         Keckley Valve Float Installation  
**ATTENTION:** Mike Cassidy              **EMAIL:** [mse@thepencogc.com](mailto:mse@thepencogc.com)  
**PHONE:** (207) 236-6390  
**FAX:** (207) 542-5485                      **QUOTATION:** \$3,300.00

### SCOPE

Installation of the Keckley Valve float lever arm, rod and ball for the water supply tank at the fire pump room. It is estimated that this work will take one day plus material to complete.

Should you find this quotation acceptable please return one signed and dated copy of this quotation along with your purchase order (if applicable) at your earliest convenience.

*Your scheduling contact will be Tom Vining. Upon acceptance of this proposal please allow 4 to 6 weeks for scheduling of the work unless other arrangements have been made.*

This proposal is valid for **30** days. If you find any of the information contained herein to be inaccurate, please inform me as soon as possible. Please call with any questions; we hope to have the opportunity to work with you on this project.

**Accepted By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Mike**

---

**Subject:** FW: BEA - Keckley Valve Float Assembly

Good Morning Mike,

I apologize for the delay in getting this to you. Attached is our pricing for the installation of the float valve assembly. The breakout is as follows: \$1,935.00 – Labor and \$1,365.00 – Material for a total of \$3,300.00.

Best Regards,  
Frank

*Frank P. Welch, Jr.*

**Estimating & Design**

**Eastern Fire**

**PO Box 1390**

**170 Kittyhawk Avenue**

**Auburn, Me 04211-1390**

Email: [welchfp@easternfiregroup.com](mailto:welchfp@easternfiregroup.com)

Office: (207)784-1507 x 228

Fax: (207)782-0566



Norris Inc  
 PO Box 2551  
 South Portland, ME 04116  
 800-3703473



|                |                |
|----------------|----------------|
| <b>Date</b>    | <b>Invoice</b> |
| 8/28/2019      | 11645          |
| <b>Account</b> |                |
| PENCOM         |                |

|  |
|--|
| <b>Bill To</b>   |
| The Penobscot Company, Inc.<br>Attn: Nancy McKeon<br>519 West St<br>Rockport, ME 04864 |

|  |
|--|
| <b>Ship To</b>   |
| The Penobscot Company, Inc.<br>Attn:<br>Orion St.<br>Brunswick, ME 04011 |

|              |                 |                  |                  |
|--------------|-----------------|------------------|------------------|
| <b>Terms</b> | <b>Due Date</b> | <b>PO Number</b> | <b>Reference</b> |
| Net 30 days  | 9/27/2019       | signed quote     |                  |

|                       |  |
|-----------------------|--|
| <b>Project Name</b>   | <b>Brunswick Hangar Heat Detectors</b> |
| <b>Billing Type</b>   | Standard                               |
| <b>Billing Method</b> | Fixed Fee                              |
| <b>Company Name</b>   | The Penobscot Company, Inc.            |
| <b>Contact Name</b>   | Nancy McKeon                           |

| Products & Other Charges           | Quantity |
|------------------------------------|----------|
| MISC: Lift Rental                  | 1.00     |
| MISC: Misc Materials               | 1.00     |
| 728300: 16-04 UNS SOL FPLR Red Jkt | 1000.00  |
| NMM100P: addressable mini module   | 5.00     |
| NC100R: addressable relay          | 5.00     |
| MISC: Lift rental credit           | 1.00     |
| 728300: 16-04 UNS SOL FPLR Red Jkt | -1000.00 |
| NC100R: addressable relay          | -2.00    |
| Fixed Fee Labor                    |          |

*Parts \$2,080.00*  
*Labor \$3,920.00*

|   |                     |                                |
|---|---------------------|--------------------------------|
| Thank you for choosing Norris Inc!<br>Advancing Security, Life Safety, and Communications | Subtotal            | \$6,000.00                     |
|   | Shipping & Handling | \$52.00                        |
|   | Tax                 | <del>\$114.40</del> <i>N/A</i> |
|   | Credits/Payments    | \$0.00                         |
|   | <b>Total</b>        | <del><b>\$6,166.40</b></del>   |

*\$6,052.00*

CONSULTANT'S REVIEW OF  
CONTRACTOR PROPOSALS



## MEMORANDUM

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**To:** Mike Cassidy, The Penobscot Company, Inc.  
Marty McMahon, Brunswick Executive Airport  
Tim LeSiege, Maine Department of Transportation  
Luke Garrison, Federal Aviation Administration

**From:** Jeff Luy, AIA

**Date:** Revised 8-2-2019

**Re:** Hangar Improvements, Phase III  
Improve Hangar 4 & End Area Alterations  
AIP# 3-23-0056-031-2018

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### Cost Proposal #30R2 – Fire Pump Pressure Relief Valve Repairs

#### Background:

Each of the four diesel fire pumps located in Building 295 connects to the main water line supplying fire suppression system water to Hangars 4, 5, and 6. At the connection of each of the fire pumps there is an existing 6" pressure relief valve. The existing pressure relief valves are not functioning correctly which results in low pressure in the supply main, and inadequate water pressure and flow for the Hangar 4 foam fire suppression system to function properly. This proposal will provide labor and materials necessary to furnish and install new rebuild kits for the four existing relief valves. The proposal also includes labor for the valve manufacturer's technical representative to be on site to supervise the initial installation and labor to conduct water flow tests.

#### Discussion:

The Penobscot Company's proposed price is \$16,903.00 which includes the following:

|   | <u>Hours</u> | <u>Rate</u> | <u>Total</u> |
|---|--------------|-------------|--------------|
| Labor   |              |             |              |
| Flow Test at Hangar 4 01/08/19                                | 16           | \$75        | \$1,200      |
| Fire Pump Test at Building 295 02/05/19                       | 16           | \$75        | \$1,200      |
| Flow Test at Hangar 4 02/22/19                                | 8            | \$75        | \$ 600       |
| Test Data Engineering Analysis                                | 16           | \$75        | \$1,200      |
|   |              |             |              |
| Dismantle Existing Pressure Relief and Check Valves           | 8            | \$ 75       | \$ 600       |
| Install New Pressure Relief Valve Kits and Air Release Valves | 8            | \$ 75       | \$ 600       |
| CLA-VAL Technician  | 8            | \$175       | \$1,400      |
| CLA-VAL Travel Time   | 5            | \$175       | \$ 875       |

|   |   |        |                 |
|---|---|--------|-----------------|
| Total Labor:                                  |   |        | \$7,675         |
| 15% Mark-up                                   |   |        | <u>\$1,151</u>  |
| Subtotal Labor                                |   |        | <b>\$8,826</b>  |
| Materials                                     |   |        |                 |
| 6" CLA-Val Pressure Relief Valve Rebuild Kits | 4 | \$ 700 | \$2,800         |
| Total Materials                               |   |        | \$2,800         |
| 5% Mark-Up                                    |   |        | <u>\$ 380</u>   |
| Subtotal Materials                            |   |        | <b>\$3,180</b>  |
| Total Labor and Materials                     |   |        | <b>\$12,006</b> |
| 5% GC Mark-up                                 |   |        | <u>\$ 840</u>   |
| Total   |   |        | <b>\$12,847</b> |

The contractor's total price is consistent with our estimate for the value of the work. Therefore we find the proposed price of \$11,790.00 to be fair and reasonable.

With this memo and approval of an associated change order the Payment Item, as listed below, will be added to the project:

|         |   |          |             |
|---------|---|----------|-------------|
| Item #1 | Fire Pump Pressure Relief Valve Repairs | Lump Sum | \$11,790.00 |
|---------|---|----------|-------------|



## MEMORANDUM

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**To:** Mike Cassidy, The Penobscot Company, Inc.  
Marty McMahon, Brunswick Executive Airport  
Tim LeSiege, Maine Department of Transportation  
Luke Garrison, Federal Aviation Administration

**From:** Jeff Luy, AIA

**Date:** July 29, 2019

**Re:** Hangar Improvements, Phase III  
Improve Hangar 4 & End Area Alterations  
AIP# 3-23-0056-031-2018

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### **Cost Proposal #33 – Replace Cistern Float at Bldg. 295 (Valve Replaced as work of CP #27)**

**Background:**

The auto fill valve that controls the level of water in the cistern below Building 295 was found to be defective and replaced as work of the previous Change Proposal #27. The float ball and arm which operates the valve was removed prior to the valve replacement with the intention of reinstalling it after the valve replacement was completed. The float cannot be located so this proposal is to provide and install a new float ball, lever arm, and rod.

**Discussion:**

The Penobscot Company's proposed price is \$3,465.00 which includes the following:

|  |                  |
|--|------------------|
| Material cost for new float and float mechanism:                 | \$ 1,365.00      |
| Labor cost for installation of new float and linkage adjustment: | \$ 1,935.00      |
| General Contractor mark-up:                                      | \$ <u>165.00</u> |
| Total:   | \$ 4,465.00      |



Cost Justification:

Our estimate for the work is as follows:

Labor

|  |                  |
|--|------------------|
| Installation of float and lever arm (20 hours @ \$75/hr) | \$ 1,500.00      |
| Float mechanism adjustment and testing (4 hours @75/hr)  | \$ <u>300.00</u> |
| Total Labor:   | \$ 1,800.00      |
| 15% Mark-up  | \$ 270.00        |

Materials

|                                       |                    |
|---------------------------------------|--------------------|
| Keckley float ball, lever arm and rod | \$ 1,200.00        |
| 5% Mark-up                            | \$ 60.00           |
| Total Labor and materials:            | \$ <b>3,330.00</b> |
| GC 5% Mark-up:                        | \$ <u>166.00</u>   |
| Total:                                | \$ <b>3,496.00</b> |

The contractor's total price is consistent with our estimate for the value of the work. Therefore we find the proposed price of \$ 3,465.00 to be fair and reasonable.

With this memo and approval of an associated change order the Payment Item, as listed below, will be added to the project.

|         |                                    |          |            |
|---------|------------------------------------|----------|------------|
| Item #1 | Replace Cistern Float at Bldg. 295 | Lump Sum | \$3,465.00 |
|---------|------------------------------------|----------|------------|



## MEMORANDUM

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**To:** Mike Cassidy, The Penobscot Company, Inc.  
Marty McMahon, Brunswick Executive Airport  
Tim LeSiege, Maine Department of Transportation  
Luke Garrison, Federal Aviation Administration

**From:** Jeff Luy, AIA

**Date:** September 4, 2019

**Re:** Hangar Improvements, Phase III  
Improve Hangar 4 & End Area Alterations  
AIP# 3-23-0056-024-2016

---

### Cost Proposal #35 – Fire Alarm Pull Stations

#### Background:

The Hangar 4 high-bay space contained an existing foam extinguishing system of which one component was a pipe system at the underside of the roof deck. This piping had open discharge heads which were actuated by heat detectors also located on the underside of the roof deck. This existing piping was upgraded as work of this project to comply with NFPA codes to be a water system (no foam) actuated by heat detecting sprinkler heads, so the existing heat detectors are no longer needed. The existing foam sprinkler system will continue to discharge foam from existing cannons located at the floor level at the sides of the hangar. The foam cannons are activated by both existing wall mounted infrared heat detectors and ten existing wall mounted pull stations. The existing pull stations were discovered to be wired through the existing roof deck mounted heat detectors, some of which were found to be defective, which would prevent activation of the cannons. This proposal will rewire the pull stations with two control lines to connect directly to the fire alarm panel.

#### Discussion:

The Penobscot Company's proposed price is \$6,355.00 which includes the following:

|                             |                  |
|-----------------------------|------------------|
| Materials                   | \$ 2,080.00      |
| Installation labor          | \$ 3,920.00      |
| Shipping                    | \$ 52.00         |
| General Contractor mark-up: | \$ <u>303.00</u> |
| Total:                      | \$ 6,355.00      |

Cost Justification:

Our estimate for the work is as follows:

|  | <u>Hours</u> | <u>Rate</u> | <u>Total</u>   |
|--|--------------|-------------|----------------|
| <u>Labor</u>   |              |             |                |
| Rewire Existing Pull Stations (10) with two control lines  | 32           | 75          | \$2,400        |
| Fire Alarm Panel Connections/Testing                       | 8            | 75          | \$ 600         |
| 15% Subcontractor Mark-up                                  |              |             | <u>\$ 450</u>  |
| Subtotal   |              |             | \$3,450        |
| <u>Materials</u>   |              |             |                |
| 16-4 FA Wiring (2-1000 lf Spools @ \$420 ea)               |              |             | \$ 840         |
| Notifier NMM-100P Addressable FA Mini-Module (5 @ \$85 ea) |              |             | \$ 425         |
| Notifier NC-100R Addressable FA Relays (7 @ \$110 ea)      |              |             | \$ 770         |
| Conduit, Connectors, Boxes                                 |              |             | \$ 750         |
| 5% Subcontractor Mark-Up                                   |              |             | <u>\$ 140</u>  |
| Subtotal   |              |             | \$2,925        |
| 5% GC Mark-up  |              |             | <u>\$ 318</u>  |
| Total  |              |             | <b>\$6,693</b> |

The contractor's total price is consistent with our estimate for the value of the work. Therefore we find the proposed price of \$6,355.00 to be fair and reasonable.

With this memo and approval of an associated change order the Payment Item, as listed below, will be added to the project:

|         |                          |          |            |
|---------|--------------------------|----------|------------|
| Item #1 | Fire Alarm Pull Stations | Lump Sum | \$6,355.00 |
|---------|--------------------------|----------|------------|