



Nantucket Memorial Airport

CONTRACT BID DOCUMENTS AND
TECHNICAL SPECIFICATIONS

For

SOUTH APRON SOUND BARRIER

at the

NANTUCKET MEMORIAL AIRPORT

Nantucket, MA



APRIL 2025

Prepared For:
Town of Nantucket, MA



125 Nagog Park, Suite 220
Acton, MA 01720
Phone: (978) 692-0522
www.mjinc.com
MJ Project No. 19149.08

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**NOTE: THIS PROJECT IS BEING BID ELECTRONICAL USING: BID
DOC ONLINE. REFER TO INSTRUCTIONS TO BIDDERS.**

PROPOSAL DOCUMENTS

for

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

PREPARED FOR:

**Town of Nantucket - Nantucket Airport Commission
Nantucket, Massachusetts**

PREPARED BY:



**125 Nagog Park Ste 220
Acton, Massachusetts 01720
Phone: (978) 692-0522**

April 2025

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PROPOSAL FORM

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

Date: _____

To: Nantucket Memorial Airport

The undersigned (hereinafter called the Contractor) proposes to furnish all labor, equipment and materials required for **“SOUTH APRON SOUND BARRIER”** in accordance with the accompanying Contract Documents as defined in the Supplemental General Provisions and prepared by McFarland Johnson, Inc., for the amounts listed below, subject to additions and deductions in accordance with the terms of the Specifications. It being understood that the Owner will be the sole judge as to acceptance of Bids and award of the Contract.

Bidder agrees to complete the work under this Contract within the time specified in the Invitation to Bid.

B. This Bid includes addenda:

<u>Number</u>	<u>Date</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

C. Bidders agree to perform all of the work described in the Contract Documents and tabulated below for the following unit and lump sum prices.

It is understood that the quantities given in this Bid Form are approximate only and are given as a basis for comparison of Bids. The Owner does not expressly or by implication agree that the actual amount of work will even approximately correspond herewith, but reserves the right to increase or decrease the amount of any item of the work listed, and the unit prices quoted in the Bid shall apply without change to such variation in the quantity of each of the items, except as further clarified herein. The Owner further reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

Last Modified: 04/18/2025 at 12:56PM EDT

BASE BID

ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
C-105-1	$\frac{1}{LS}$	<u>Mobilization (5% Limit) for the Lump Sum price of:</u> _____ dollars and _____ cents.				
C-102-5.1F	$\frac{9}{EA}$	<u>Inlet Protection for the Unit Price per Each of:</u> _____ dollars and _____ cents.				
M-120-1	$\frac{1}{LS}$	<u>SPCD Preparation and CSPP & SPCD Monitoring Implementation (1% Maximum) for the Lump Sum price of:</u> _____ dollars and _____ cents.				
M-120-2	$\frac{1300}{LF}$	<u>Work Zone Delineation Fence for the Unit Price per Linear Foot of:</u> _____ dollars and _____ cents.				
M-120-3	$\frac{1}{LS}$	<u>Maintenance and Protection of Traffic (5% Maximum) for the Lump Sum price of:</u> _____ dollars and _____ cents.				

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ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
M-200-1	$\frac{130}{EA}$	<u>Drilled Shaft Concrete Foundation</u> for the Unit Price per Each of: _____ dollars and _____ cents				
M-300-1	$\frac{31,400}{SF}$	<u>Sound Wall Barrier</u> for the Unit Price per Square Foot of: _____ dollars and _____ cents				
M-400-1	$\frac{1}{EA}$	<u>Groundwater Monitoring Well Removal</u> for the Unit Price per Each of: _____ dollars and _____ cents				
P-151-4.3	$\frac{10}{EA}$	<u>Select Tree Cutting & Removal</u> for the Unit Price per Each of: _____ dollars and _____ cents				
P-152-4.1	$\frac{110}{CY}$	<u>Unclassified Excavation</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				
P-152-4.2	$\frac{150}{CY}$	<u>Embankment in Place – On-Site Borrow</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				

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ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
T-901-5.1	<u>12</u> KSF	<u>Seeding</u> for the Unit Price per 1000 Square Feet of: _____ dollars and _____ cents				
T-905-5.1	<u>150</u> CY	<u>Topsoil – Obtained On-Site</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				

BASE BID SUMMARY

TOTAL BASE BID: _____
(Words)

_____ dollars and
_____ cents (\$ _____)
(Figures)

The Owner reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

Amounts are to be shown in both words and figures. In case of Discrepancy, the amount shown in words will govern.

The above unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all Bids and to waive any informalities in the Bidding. The Bidder agrees that this Bid shall be good and may not be withdrawn for the period as specified in the Invitation to Bid.

The undersigned further certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

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The undersigned agrees that if they are selected as the Contractor they will, within five (5) calendar days, after presentation thereof by the Owner, unless otherwise directed in writing by the Owner, execute a Contract in accordance with the terms of this General Bid and furnish a Performance Bond for 100% of the Contract Price and Payment Bond for 100% of the Contract Price, each of a Surety company meeting the requirements contained in the Contract Documents and satisfactory to the Owner, the premiums of which are to be paid by the Contractor and are included in the Contract amount.

Bidder proposes to provide all labor and materials to complete the work, as specified in the Contract Documents, and as is reasonably expected due to the existing conditions and required construction.

The undersigned hereby certifies that they are able to furnish labor that can work in harmony with all other elements of labor employed, or to be employed on the work, and that they will comply fully with all laws and regulations applicable to award of this contract.

The undersigned agrees to guarantee all of the work performed under this Contract to be done in accordance with the Contract Documents in a good and workmanlike manner and to renew or repair any work which may be rejected, due to defective materials or workmanship, prior to final completion and acceptance of the work.

The Bid Security attached in the sum of \$_____ is to become the property of the Owner, in the event the Contract and Bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner causes thereby.

Company Name

Address

Name of Authorized Signature

Signature

Title

Date

(SEAL - if Bid is by a corporation)

**CERTIFICATE AS TO CORPORATE PRINCIPAL
FOR PROPOSAL**

(IF A CORPORATION)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally came _____

to me known, who being by me duly sworn, did depose and say as follows:

That they reside at _____

and are the _____

of _____

the corporation described in, and which executed the foregoing instrument; that they know the corporate seal of said corporation; that the seal affixed to the foregoing instrument is such corporate seal and it was so affixed by order to the Board of Directors of said corporation; and that by the like order they signed thereto their name and official designation.

Notary Public (Seal) _____

My Commission expires: _____

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**PARTNERSHIP CERTIFICATE
FOR PROPOSAL**

(IF A PARTNERSHIP)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally appeared _____

known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they are a general partner in the firm of

_____;

and that said firm consists of themselves and _____

_____, and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal) _____

My Commission expires: _____

**INDIVIDUAL CERTIFICATE
FOR PROPOSAL**

(IF AN INDIVIDUAL)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally appeared _____

known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they are the owner of the

firm _____;

and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal) _____

My Commission expires: _____

BID BOND

(Not to be filled in if a Cashier's Check is submitted)

KNOW ALL MEN BY THESE PRESENTS That the undersigned Bidder, _____
_____, as Principal, and _____
_____, as Surety, are held and firmly bound unto the **Town of Nantucket -
Nantucket Memorial Airport Commission** in the sum of _____
_____ dollars (\$ _____) for the payment of which, well and truly to be made,
we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors,
and assigns.

THE CONDITION OF THIS OBLIGATION is such that if Principal:

1. Does not withdraw the attached Proposal of _____ dollars
(\$ _____) for the project to **South Apron Sound Barrier**; and

2. Enters into the written Contract and furnishes the required Certificates of Insurance,
Payment and Performance Bonds, with Surety or Sureties acceptable to the **Town of Nantucket -
Nantucket Memorial Airport Commission**, within **Five (5)** days after Notice that the said Proposal
is accepted, then this obligation shall be void; otherwise, the same shall be in full force and the full
amount of this Proposal.

Bond shall be paid to the **Town of Nantucket - Nantucket Memorial Airport Commission** as
stipulated herein as liquidated damages. Signed this _____ day of _____
_____, 2025.

(PRINCIPAL MUST INDICATE
WHETHER CORPORATION, PARTNERSHIP
COMPANY, OR INDIVIDUAL)

Principal

THE PERSON SIGNING FOR THE
PRINCIPAL SHALL, IN THEIR OWN
HANDWRITING, SIGN THE PRINCIPAL'S
NAME, THEIR OWN NAME, AND THEIR
TITLE. WHERE THE PERSON SIGNING FOR
CORPORATION IS OTHER THAN THE
PRESIDENT OR VICE PRESIDENT, THEY
MUST FURNISH A CORPORATE RESOLUTION
SHOWING THEIR AUTHORITY TO BIND THE
CORPORATION.

(Affix Surety's Corporate Seal)

_____ Surety

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SURETY'S BOND AFFIDAVIT

STATE OF _____)

SS

COUNTY OF _____)

BEFORE ME, THE UNDERSIGNED AUTHORITY, PERSONALLY APPEARED _____
_____ WHO, BEING DULY SWORN, DEPOSES AND SAYS THAT
THE UNDERSIGNED IS A DULY AUTHORIZED (RESIDENT) (NON-RESIDENT) INSURANCE
AGENT, PROPERLY LICENSED UNDER THE LAWS OF THE STATE OF _____
_____, OF _____, A COMPANY AUTHORIZED TO
MAKE CORPORATE SURETY BONDS UNDER THE LAWS OF THE STATE OF
MASSACHUSETTS

SAID _____ FURTHER CERTIFIES THAT AS
ATTORNEY-IN-FACT FOR THE SAID _____, THEY
HAVE SIGNED THE ATTACHED BOND IN THE SUM OF _____
DOLLARS (U.S. \$ _____) ON BEHALF OF _____
_____ FOR

**NANTUCKET MEMORIAL AIRPORT COMMISSION, TOWN OF NANTUCKET, COVERING
PROJECT – SOUTH APRON SOUND BARRIER**

COUNTERSIGNED:

MASSACHUSETTS RESIDENT AGENT

AGENT AND ATTORNEY-IN-FACT

ACKNOWLEDGEMENT FOR ATTORNEY-IN-FACT

SWORN TO AND SUBSCRIBED BEFORE ME THIS
_____ DAY OF _____, 20__.

NOTARY PUBLIC,
MY COMMISSION EXPIRES: _____

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This signature page is included in this Proposal Documents to provide assistance to all Bidders in the form of a checklist and to stipulate that if any of the items mentioned below, but not limited to, are incomplete or otherwise incorrect, the Owner may reject the bid.

I. BID CERTIFICATION CHECKLIST

- A. Bid Certification Checklist Form with Signature **BC1 section**

II. BID PROPOSAL FORM AND BID BOND

- A. Bid Proposal Acknowledgement Form of Addenda & Notes and Signature **PA section**
- B. Bid Bond (or other acceptable surety as stated in Information to Bidders) **BB section**

NOTE: Original hard copy of Bid Bond submitted within 72 hours of bid to:

Nantucket Memorial Airport
ATTN: Warren Smith
14 Airport Road, Unit 1
Nantucket, MA 02554

III. REQUIRED FORMS AND SIGNATURE

- A. Bidders Qualifications **BC2 section**
- B. List of Subcontractors and Suppliers **BC3 section**
- C. Affirmative Action Certification *Not Required*
- D. Certificate of Buy American Compliance for Construction Products *Not Required*
- E. Certificate of Offeror/Bidder Regarding Debarment *Not Required*
- F. Subcontractor/Supplier DBE and SB Letter of Intent with Good Faith Effort . *Not Required*
- G. Prime Contractor – DBE/SB Reporting Information Form *Not Required*
- H. Subcontractor/Supplier – DBE/SB Reporting Information Form *Not Required*
- I. Certification Regarding Lobbying *Not Required*
- J. Prohibition of Segregated Facilities *Not Required*
- K. Certificate of Offeror/Bidder Regarding Tax Delinquency
& Felony Conviction..... *Not Required*
- L. Trade Restriction Certification *Not Required*
- M. Non-Collusion Affidavit (Bidder/Offeror) **Form MJ-111**
- N. Statement of OSHA Training **Form MJ-120-MA**

IV. PROPOSAL SECTION NOTES

Unit Price Bids will be considered to be incomplete if any of the following conditions exist:

- A. Unit Price in figures is omitted
- B. A zero, N/A, or blank is to be used as a bid price in the Bid Form.

V. MISCELLANEOUS NOTES

- A. All Forms shall be in **BLUE** or **BLACK INK** or **TYPED**
- B. All documents provided with the proposal form are considered a part thereof and must not be altered when the proposal is submitted.

VI. CERTIFICATION SUMMARY

I hereby certify that I have read all of the above requirements and understand that it affects the acceptability of my bid.

Bidder Signature

Date

NOTE:

In addition to the Bid Certification Documents noted above, the two (2) lowest Bidders shall provide proof of registration with the Commonwealth of Massachusetts Department of Revenue to perform work in Massachusetts within 72 hours of bid.

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5. Has your present organization ever failed to complete any work awarded to it? If so, state when, where and why.

6. Give below, the name of one or more banks which have information that would enable them to advise regarding the financial ability of your company.

Name of Bank:	Address:	Telephone No.
---------------	----------	---------------

7. The names and residences of all persons and parties interested in this proposal as principals are as follows:

NOTE: In case of a corporation, give names of officers and directors; in case of a partnership, give names of all partners.

Dated at _____

this _____ day of _____, 2025.

Name of Bidder: _____

By: _____

Title: _____

State of _____ ss.

County of _____

Being duly sworn, deposes and says that he/she is

(Title)

Of _____
(name of organization)

and that the answers to the foregoing questions and statements contained therein are true and correct.

Sworn to before me this _____ day of _____ 2025.

My commission expires: _____

Notary Public

ATTACH ADDITIONAL PAGES IF NECESSARY TO DEMONSTRATE QUALIFICATIONS.

BIDDER'S PROPOSED LIST OF SUBCONTRACTORS & SUPPLIERS

The Bidder advises herein that the following Subcontractors and Suppliers are proposed for the item of work listed. Subcontractors are subject to review per the requirements of the Contract Documents and the technical requirements specified. List only subcontracting firms that will supply labor at the site AND significantly large, or Disadvantaged Business Enterprise, equipment/material suppliers.

Failure to provide this information may result in the bid being considered non-responsive.

	<u>SUBCONTRACTOR OR SUPPLIER NAME</u>	<u>DBE (Y/N)</u>	<u>TRADE</u>	<u>CONTRACT WORK ITEM TO BE PERFORMED</u>	<u>VALUE (\$)</u>
1.	_____				
2.	_____				
3.	_____				
4.	_____				
5.	_____				
6.	_____				
7.	_____				
8.	_____				
9.	_____				
10.	_____				
11.	_____				
12.	_____				
13.	_____				
14.	_____				
15.	_____				

RESPECTFULLY SUBMITTED:

(Bidder)

By: _____

Title: _____

Date: _____

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NON-COLLUSION AFFIDAVIT (BIDDER OR OFFEROR)

I, (enter full legal name) _____,

representing (name of person, firm, association, or corporation) _____

_____ of (Town or City and State) _____

certify under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph, the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

Name of Individual, Partnership, or Corporation (Please Print or Type)

Signature of Official Authorized to Sign Contracts and Agreements

Name of Individual Signing Affidavit

Title of Individual Signing Affidavit

Sworn to before me this ____ day of _____, 20__

(Notary Public)

My Commission Expires _____

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NON-COLLUSION AFFIDAVIT (BIDDER OR OFFEROR)

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STATEMENT OF OSHA TRAINING COMPLIANCE

Pursuant to M.G.L. c.30, §39S, any person submitting a bid for, or signing a contract to work on, a public building or public works project estimated to cost more than \$10,000 shall certify on the bid, or contract, under penalties of perjury, as follows:

- (1) that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work;
- (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and
- (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

I, _____ authorized signatory for _____, do hereby certify under the pains and penalties of perjury that all employees employed on the worksite, or in work subject to the bid, have successfully completed at least 10 hours of OSHA approved training.

Signature of Individual or Corporation Name

By:

(Corporate Officers Name)

(Corporate Officers Title)

Social Security Number
or Federal Identification Number

Date

STATEMENT OF OSHA TRAINING COMPLIANCE

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Nantucket Memorial Airport

CONTRACT BID DOCUMENTS AND
TECHNICAL SPECIFICATIONS

For

SOUTH APRON SOUND BARRIER

at the

NANTUCKET MEMORIAL AIRPORT

Nantucket, MA



APRIL 2025

Prepared For:
Town of Nantucket, MA



125 Nagog Park, Suite 220
Acton, MA 01720
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**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
<u>BIDDING REQUIREMENTS AND PROPOSAL</u>		
TOC	Table of Contents.....	TOC-1 to TOC-6
I	Invitation to Bid	I-1 to I-4
IB	Instructions to Bidders	IB-1 to IB-6
P	<u>SAMPLE Bid Proposal</u>	
	Proposal Cover & Acknowledgement of Addenda.....	P-1 to P-3
	Proposal Bid Form	P-4 to P-6
	Proposal Summary	P-6
	Proposal Signature & Certification	P-7 to P-10
BB	Bid Bond	BB-1 to BB-2
	<u>Bidder Certification Forms</u>	
BC1	Bidders Certification Checklist & Signature	BC1-1 to BC1-2
BC2	Bidders Qualifications	BC2-1 to BC2-4
BC3	Bidder's Proposed List of Subcontractors and Suppliers	BC3-1 to BC3-2
MJ-111	Non-Collusion Affidavit (Bidder or Offeror)	
MJ-120 MA	Statement of OSHA Training Compliance	

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**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
<u>CONTRACT AND CONTRACT EXECUTION FORMS</u>		
AC	Award of Contract and Execution of Contract Bonds	AC-1 to AC-2
C	SAMPLE Contract (with Contract Insurance Provisions)	C-1 to C-12
PFB	Performance Bond	PFB-1 to PFB-6
PYB	Payment Bond	PYB-1 to PYB-6
CF	<u>Contract Forms</u> Notice of Award Notice to Proceed Contractor's Guaranty	NOA-1 to NOA-2 NTP-1 to NTP-2 CG-1 to CG-2
CEF	<u>Contract Execution Forms</u>	
MJ-200	Safety Plan Compliance Document (SPCD) Certification	
MJ-204	Transmittal Request for Consent to Sublet	
MJ-206	Contractor Submittal Form	
MJ-207	Subcontractor Submittal Form	
MJ-209	Waiver and Release of Mechanic's Liens and Claims	

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**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
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Division 1 – Project Contract Specifications

**GCP FAA General Provisions
(Per Advisory Circular 150/5370-10H dated 12/21/2018)**

Section 10 Definition of Terms.....	GCP-1 to GCP-6
Section 20 Proposal Requirements and Conditions	GCP-7 to GCP-10
Section 30 Award and Execution of Contract.....	GCP-11 to GCP-12
Section 40 Scope of Work	GCP-13 to GCP-16
Section 50 Control of Work.....	GCP-17 to GCP-22
Section 60 Control of Materials.....	GCP-23 to GCP-26
Section 70 Legal Regulations and Responsibility to Public.....	GCP-27 to GCP-32
Section 80 Execution and Progress.....	GCP-33 to GCP-38
Section 90 Measurement and Payment.....	GCP-39 to GCP-46

RCP FAA Required Contract Provisions for AIP Projects (As of My 24, 2023)

A1. Access to Records and Reports (Not Required).....	RCP-2
A2. Affirmative Action Requirement (Not Required).....	RCP-3
A3. Breach of Contract Terms (Not Required)	RCP-4
A4. FAA Buy American Preference (Not Required)	RCP-5
A5. Civil Rights-General	RCP-6
A6. Civil Rights-Title VI Assurances	RCP-6
A7. Clean Air and Water Pollution Control (Not Required).....	RCP-9
A8. Contract Workhours and Safety Standards Act Requirements (Not Required) ...	RCP-10
A9. Copeland “Anti-Kickback” Act (Not Required)	RCP-11
A10. Davis-Bacon Requirements (Not Required)	RCP-12
A11. Debarment and Suspension (Not Required).....	RCP-13
A12. Disadvantaged Business Enterprise (Not Required)	RCP-14
A13. Distracted Driving (Not Required).....	RCP-15
A14. Prohibition on Certain Telecommunications & Video Surveillance Services or Equipment (Not Required)	RCP-16
A15. Drug Free Workplace Requirements (Not Applicable)	
A16. Equal Employment Opportunity (EEO) (Not Required).....	RCP-17
A17. Federal Fair Labor Standards Act (Federal Minimum Wage)	RCP-18
A18. Lobbying and Influencing Federal Employees (Not Required).....	RCP-19
A19. Prohibition of Segregated Facilities (Not Required).....	RCP-20
A20. Occupational Safety and Health Act of 1970	RCP-21
A21. Procurement of Recovered Materials (Not Required).....	RCP-22
A22. Rights to Inventions (Not Required)	RCP-23
A23. Seismic Safety (Not Included or Applicable for this Contract) (Not Required).....	RCP-24
A24. Tax Delinquency and Felony Convictions (Not Required)	RCP-25

**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
A25.	Termination of Contract (Not Required)	RCP-26
A26.	Trade Restriction Certification (Not Required)	RCP-27
A27.	Veteran’s Preference (Not Required)	RCP-28
A28.	Domestic Preference for Procurement (Not Required)	RCP-29
 SW State Prevailing Wage Rates		
	Massachusetts – Town of Nantucket – April 2025	

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**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
<u>Division 2 – Special Provisions (Supplemental General Provisions, Reports and Permits)</u>		
SGP	Supplemental General Provisions	SGP-1 to SGP-34
	A. Project Specific Clauses.....	SGP-1
	B. FAA Required Contract Clauses	SGP-7
	C. General Aviation Clauses.....	SGP-9
	D. State/Agency/Airport Specific Clauses	SGP-33
SP1	Construction Safety and Phasing Plan (CSPP)	SP1-1 to SP1-34
SP1A	FAA Advisory Circular 150/5370-2G (REFERENCE ONLY) <i>Operational Safety on Airports During Construction</i>	SP1-1A to SP1A-2
SP2	Geotechnical Report	SP2-1 to SP2-46
P	Permits (As Applicable) <i>None</i>	

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**NANTUCKET MEMORIAL AIRPORT - TOWN OF NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER**

Section	Description	Pages
<u>Division 3 – Technical Specifications</u>		
Item C-105	Mobilization.....	C-105-1 to C-105-2
Item M-001	Summary of Work and Special Work Requirements.....	M-001-1 to M-001-14
Item M-120	CSPP & Maintenance and Protection of Traffic.....	M-120-1 to M-120-4
Item M-200	Drilled Shaft Concrete Foundations	M-200-1 to M-200-12
Item M-300	Sound Wall Barrier.....	M-300-1 to M-300-8
Item M-400	Site Demolition.....	M-400-1 to M-400-6
Item C-102	Temporary Air and Water Pollution, Soil Erosion and Siltation Control	C-102-1 to C-102-6
Item P-151	Clearing and Grubbing.....	P-151-1 to P-151-4
Item P-152	Excavation, Subgrade and Embankment	P-152-1 to P-152-8
Item T-901	Seeding	T-901-1 to T-901-6
Item T-905	Topsoil.....	T-905-1 to T-905-4
Item T-908	Mulching	T-908-1 to T-908-4

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DIVISION A – BIDDING REQUIREMENTS AND PROPOSAL

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INVITATION TO BID

SOUTH APRON SOUND BARRIER

The Town of Nantucket, acting through the Nantucket Airport Commission invites **electronic bids** for the above referenced project at the Nantucket Memorial Airport, Nantucket Massachusetts. The bids are to be prepared and submitted through biddocsonline.com. www.biddocsonline.com

Electronic bids will be accepted until **2:00 p.m. prevailing time on Friday, May 9, 2025**, at biddocsonline.com (which will represent the owner) and at that time all bids received will be publicly opened and read aloud. Electronic Bids received after this time will not be accepted. The time of receiving and opening bids may be changed postponed at the sole discretion of the Owner. Tutorials and electronic bidding instructions are available online at www.biddocsonline.com.

Please note: **NO HARD COPY BIDS WILL BE ACCEPTED**. Any bid received at the Airport will be returned, unopened.

TYPE OF CONSTRUCTION: This project includes the installation of a new sound wall barrier for a portion of the South Apron and associated incidental work for a complete installation.

CONTRACT TIME: The total contract time for award of the **Base Bid is One Hundred (100) calendar days**, which is broken into 2 phases of fifty-five (55) calendar days for Fall 2025 and forty-five (45) calendar days for Spring 2026.

PROPOSAL SURETY: All bids must be accompanied by a Proposal Surety (cash, certified check, treasurer's or cashier's check, Bid Bond, or other instrument as described in the Instructions to Bidders).

Proposal Surety of the three (3) lowest responsible Bidders that have submitted proposals that comply with all the provisions required to render them formal will be retained until the Contract and Bonds have been signed by all parties. Proposal Surety of all other bidders will be returned or released as soon as it is practical.

COST OF PLANS: Plans, Specifications, and Sample Proposals in Adobe Acrobat (PDF) format may be downloaded for free as outlined below.

PLANS, SPECIFICATIONS, AND PROPOSALS MAY BE SEEN AND OBTAINED FROM:

Plans may be VIEWED at:

McFarland Johnson, Inc.
125 Nagog Park Ste 220
Acton, Massachusetts 01720
(978) 692-0522

Nantucket Memorial Airport
Office Manager
14 Airport Road, Unit 1
Nantucket, Massachusetts 02254
(508) 325-5303

Copies of the Contract Documents including Plans, Specifications, Proposals, and addendums (if issued) will be available for examination and downloading beginning on **Friday, April 18, 2025**, at the following website: www.biddocsonline.com.

Under the Project Name: **"Nantucket Memorial Airport – South Apron Sound Barrier"**.

Addendums and other additional or revised Contract Documents will be available on the website **ONLY** and it is the Bidder's sole responsibility to check the website for additions or revisions up to 24 hours prior to the due date for Proposals listed above. Addendums and other additional or revised Contract Documents will not be transmitted directly to Bidders or Plan Holders.

QUESTIONS AND CONTACT WITH THE OWNER: From the time of advertising until the actual bid opening for this Contract, all prospective Bidders, Contractors, Subcontractors, and Suppliers shall direct all inquiries related to this project solely to Dhruv Patel, McFarland Johnson, 125 Nagog Park, Suite 220, Acton, Massachusetts 01720, 978-692-0522, dpatel@mjinc.com. The deadline for submitting inquiries related to this project is **Friday, May 2, 2025 at 5:00 p.m.**

BIDDING PROCEDURES: The Electronic Bidding Procedures as outlined in the Instructions to Bidders.

PRE-BID CONFERENCE: A non-mandatory, but highly recommended, Pre-Bid Conference will be held in-person at the Nantucket Memorial Airport on, **Tuesday, April 29, 2025, at 1:00 p.m.** Please notify Dhruv Patel at dpatel@mjinc.com at least one day prior to the meeting if you plan to attend.

MINIMUM LABOR RATES (DAVIS-BACON & MASSACHUSETTS PREVAILING WAGE): Work under this project does not need to comply with Davis-Bacon Act regulations. However, Work under this project must also comply with the Commonwealth of Massachusetts Minimum Wage Rates as included in the Contract Documents.

CONTRACT BONDS: A successful Bidder entering into a contract for any portion of the work included in a proposal shall provide the Owner sufficient surety in the form of 100% Performance and Payment Bonds as outlined in the Supplemental General Provisions.

FEDERAL CONTRACT PROVISIONS: Although the project is not receiving federal funds, the bid process and the resulting Contract, if executed, all Bidders and Contractors must comply with some required applicable *Contract Provision Guidelines for Obligated Sponsors and Airport Improvement Program Projects*, Appendix A – Contract Provisions outlined within these Contract Documents.

EQUAL EMPLOYMENT OPPORTUNITY AND NON-DISCRIMINATION IN CONTRACTS: Although these federal solicitation and contract clauses are not applicable by not having federal project funding, it is the policy of the Owner that they will not discriminate against any bidder because of race, color, religion, sex, or national origin.

CIVIL RIGHTS: the Contractor agrees to comply with pertinent statutes, Executive Orders, and such rules as identified in Title VI List of Pertinent Nondiscrimination Acts and Authorities to ensure that no person shall, on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

The above provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract.

TITLE VI SOLICITATION NOTICE: The **Town of Nantucket, Nantucket Memorial Airport Commission, Massachusetts**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, select businesses or disadvantaged business enterprises will be afforded full and fair opportunity to

submit bids in response to this invitation and no businesses will be discriminated against on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability in consideration for an award.

MASSACHUSETTS MINORITY BUSINESS ENTERPRISE/WOMEN BUSINESS ENTERPRISE (MBE/WBE): It is the policy of the Nantucket Memorial Airport Commission at the Nantucket Memorial Airport to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying under this solicitation regardless of business size or ownership.

However, the Massachusetts MBE/WBE regulations are not applicable for this project and there is no goal for participation.

BUY AMERICAN CERTIFICATION: Not Applicable for this Project.

CERTIFICATE REGARDING DEBARMENT AND SUSPENSION: Not applicable for this Project.

FEDERAL DISADVANTAGED BUSINESS ENTERPRISE (DBE): Not Applicable for this Project

FOREIGN TRADE RESTRICTION CLAUSE: Not applicable for this Project.

LOBBYING AND INFLUENCING FEDERAL EMPLOYEES: Not Applicable for this Project.

PROCUREMENT OF RECOVERED MATERIALS: Not Applicable for this Project

DRUG FREE WORKPLACE: The Town of Nantucket complies with the Drug Free Workplace requirements in 49 CFR Part 29.

QUANTITIES: The estimated quantities in the Proposal are not guaranteed but are given as a basis for the comparison of bids.

BID VALID PERIOD: No bids may be withdrawn by the Bidder for one hundred eighty (180) calendar days post bid opening.

PROPOSAL FORMS: The proposal section includes a Proposal Checklist. If all the forms and documents listed in the Proposal Checklist for inclusion in the Proposal are not included with your Proposal and correctly executed, the Proposal may be considered non-responsive.

The right is reserved to reject any or all bids, to waive any formality and any and all technicalities in bids and to accept such bids as may be deemed in the best interest of the awarding agency.

AWARDING AUTHORITY
Town of Nantucket
Nantucket Airport Commission

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Last Modified: 04/18/2025 at 12:56PM EDT

INSTRUCTIONS TO BIDDERS

1. GENERAL:

This project is to be financed by the Town of Nantucket - Nantucket Memorial Airport Commission and any other available funding.

2. GOVERNING STATUE REFERENCE:

Wherever in the Contract Documents reference is made to the General Laws of Massachusetts, (MGL), it shall be construed to include all amendments thereto effective as of the date of issue of INVITATION TO BID on the proposed work.

Bids are subject to the provisions of Massachusetts General Laws, Chapter 30, and all other applicable provisions of M.G.L.as modified by Chapter 16 of the Acts of 1999 and Chapter 193 of the Acts of 2004.

3. ELECTRONIC BIDDING INSTRUCTIONS:

THIS PROJECT IS BEING ELECTRONICALLY BID AND HARD COPY BIDS WILL NOT BE ACCEPTED.

A. FORMS AND BID PREPARATION

Bids shall be submitted electronically on the "**Form for General Bid**" at www.biddocsonline.com, as appropriate and available at no cost. The forms enclosed in the Project Manual shall not be extracted or used and are included for reference only.

All entries on the bid form shall be made online. Any documents that are attached to the bid must be in a PDF format.

Sums shall be expressed in both words and figures in the space indicated on the bid form. Where there is a discrepancy between the bid sum expressed in words and the bid sum expressed in figures, the words shall control. Note: The electronic bid forms automatically matches the "word" amount to the numeric "figure" amount entered.

4. GENERAL PROPOSAL SURETY REQUIREMENT(S):

The Proposal Surety shall be as specified in the Invitation to Bid and as further described in the Supplemental General Provisions, Section SGP, Item 18 and as follows:

The bid security shall be 5% minium of the total bid including alternates of greatest value (if applicable). The bid security shall be an cash, certified bank check or treasurer's or chashiers checks, or aceptable bid bond issued by a surety company of good standing and licensed to do business in the Commonwealth of Massachusetts. The security shall be made payable to the Nantuckit Airport Commission, Town of Nantucket (Awarding Auauthority). The "bid bond" is to be scanned and uploaded to the electronic bid as a PDF file. **IMPORTANT NOTICE:** If the bidder elects to make a bid deposit in the form of "cash", "certified bank check or treasurer's or chashiers check", the bidder must have the cash or check physically delivered to the Awarding Authority at the adress below prior to the date and time of the bid opening.

Nantucket Memorial Airport
Attention: Warren Smith
14 Airport Road, Suite No. 1
Nantucket, MA 02554

Please place the security in an inner envelope and write on the outside of the envelope

“ADDITIONAL BID INFORMATION” along with the bidders name, address and project title.

Bid security received after the bid opening can be reasons for disqualification of the bid. Please note that overnight and mail delivery to Nantucket is weather dependent, and delivery dates and times can vary.

5. INSURANCE REQUIREMENTS:

Insurance Requirements shall be as specified in the sample CONTRACT FORM.

6. EXAMINATION OF CONDITIONS AFFECTING WORK:

A. Prior to submitting a Proposal, each bidder shall examine and thoroughly familiarize himself with all existing conditions, including all applicable laws, codes, ordinances, rules, and regulations that will affect his work. Bidders shall visit the site, examine the grounds and all existing buildings, utilities, and roads, and shall ascertain all conditions that will in any manner affect work. Bidders shall ask the Engineer, in writing, for any additional information deemed necessary for them to be fully informed as to exactly what is to be expected prior to submitting a Proposal.

B. When boring data and/or subsurface utility data is/are provided in the Contract Documents, neither its accuracy nor its completeness is guaranteed; the Contractor shall assume the responsibility for any conclusions they may draw from such data. They may employ their own consultants to obtain information and analyze available information and shall be responsible for any conclusions drawn from that information.

7. INTERPRETATIONS:

Each Bidder shall carefully examine the plans and the Contract Documents and all Addenda or other revisions and thoroughly familiarize themselves with the detailed requirements prior to submitting a Proposal. Should a Bidder find discrepancies or ambiguities in, or omission from, the Contract Documents, or should they be in doubt as to their meaning, they shall at once notify the Engineer in writing who will send written Addenda to all Bidders where necessary. Bidders must make this notification not later than seven days prior to submission of the Proposal, if known. Bidders shall not be entitled to rely upon any oral instructions or interpretations by the Engineer. All Addenda sent to Bidders will become a part of the Contract Documents. All inquiries shall be directed as specified in the Invitation to Bid.

8. SUBSTITUTIONS:

A. The materials, products, and equipment described in the Contract Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitutions.

B. No substitutions will be considered prior to submission of Proposal unless written request for approval has been submitted in the proper format not less than seven (7) days prior to the submission of Proposal. The burden of proof of the merit of the proposed substitution is upon the Bidder. The Engineer's final decision of Approval or Disapproval of a proposed substitution is final.

C. In making requests for substitutions, the Bidder shall list the particular system, product, or material he wishes to substitute, and the justification for such a request. Requests submitted shall include any and all adjustments of that and any other work affected thereby.

D. If the Engineer approves any proposed substitution prior to the submission of Proposal, such approval will be set forth in an Addenda. Bidders shall not rely on

approvals made in any other manner.

- E. No substitutions will be considered after the submission of Proposal except as specifically provided for in the Contract Documents.

9. ADDENDA:

All modifications to the bid documents will be issued via an addendum. All registered plan holders will be electronically notified when addenda are issued. Hard copies of the addenda will not be forwarded to the plan holders. The bidder is solely responsible for reviewing all addenda posted on the project bid portal website. The bidder must acknowledge all addenda have been reviewed by selecting "yes" or "no" as part of the e-bidding process. If the bidder selects "no", the bidder will automatically be directed to the Addenda icon on the project page.

Addenda will be posted no later than 24 hours prior to the time of bid opening.

It is the bidder's sole responsibility to check and verify that they have downloaded and acknowledge all posted addenda prior to submitting their bid.

10. CONTRACT DOCUMENTS:

- A. Complete sets of the Contract Documents can be obtained from the issuing office designated in the "Invitation to Bid" www.biddocsonline.com. There is no cost to download the Contract Documents.
- B. Bidders are expected to use complete sets of Contract Documents in preparing bid Proposals; neither the Owner nor the Engineer assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

11. ACCEPTANCE OF PROPOSAL FORMS:

The Owner reserves the right to refuse to accept a Bid Package and Proposal Form from a prospective Bidder, should such Bidder be determined by the Owner to be non-responsible. Among the criteria which the Owner may use in making such determination are the following:

- A. If pre-qualification procedures are utilized, failure to comply with any pre-qualification requirements of the Owner, including failure to supply such information as the Owner may require in evaluating the qualifications of the Bidders or failure to supply the Owner with such documents or information as the Owner may request to assist the Owner in evaluating the responsibility and qualifications of prospective Bidders.
- B. Past performance of the Bidder or any affiliated or related entity.
- C. Failure of the Bidder or any affiliated or related entity to pay or satisfactorily settle all bills for labor and material on any former contract with the Owner.
- D. The outstanding obligations of the Bidder, whether previously assumed or to be assumed in the future.
- E. Unsatisfactory, defective, or non-conforming work on any previous contract with the Owner by the Bidder or any affiliated or related entity.
- F. The present relationship between the Owner and the Bidder (or any affiliated or related entity) including the existence of any unresolved disputes arising out of past projects.

The acceptance of a Bid Package and Proposal Form from a particular Bidder shall not prevent or preclude the Owner from determining at a later date that a particular Bidder or entity is non-responsible or otherwise not qualified. The Owner at all times reserves the

right to refrain from accepting a Bid Package or awarding this Contract to a non-responsible entity or to any affiliated or related entity, or such Owner, as well as any successor, assignee, transferee, or majority interest holder of any non-responsible entity.

12. BIDDER'S QUALIFICATIONS:

The Owner reserves the right to investigate and determine the responsibility and qualifications of the Bidders before and after bid Proposals are received. The Owner shall not award Contract to any Bidder determined by Owner to be non-responsible. Among the criteria which Owner may use in making such determination are the following:

- A. Failure to comply with any qualification requirements of the Owner, including failure to supply such accurate information as the Owner may require in evaluating the qualifications of Bidders or failure to supply the Owner with such documents or information as the Owner may request to assist the Owner in evaluating the responsibility and qualifications of prospective Bidders.
- B. Past performance of the Bidder, one or more of the listed Subcontractors, or any affiliated or related entity.
- C. Failure of Bidders or any affiliated or related entity to pay or satisfactorily settle all bills for labor and materials on any former contract with the Owner.
- D. The outstanding obligations of the Bidder, whether previously assumed or to be assumed in the future.
- E. Unsatisfactory, defective, or non-conforming work on any previous contract with the Owner by the Bidder, one or more of the listed subcontractors, or any affiliated or related entity.
- F. The present relationship between the Owner and the Bidder (or any affiliated or related entity), including the existence of any unresolved disputes arising out of past projects.
- G. The financial condition of the Bidder.
- H. Experience of the Bidder and/or his listed Subcontractors in performing work of this nature.

13. MODIFICATIONS AND/OR WITHDRAWAL OF PROPOSALS:

- A. A Bidder may withdraw or refuse (by withdrawal of one Proposal and submission of another) a Proposal, provided that Bidder's Request for Withdrawal is received by the Owner in writing before the time specified for opening bid Proposals. Revised Proposals must be received at the place specified in the advertisement before the time specified for opening all bid Proposals. Modifications shall not reveal original amount of bids. Proposal Bonds must reflect modifications.
- B. Negligence on the part of the Bidder in the preparation of his Proposal shall not be grounds for modification or withdrawal of the Proposal after the time set for bid Proposal opening.

14. REJECTION OF PROPOSALS:

- A. Proposals containing any omission, alteration of form, additions or conditions not called for, conditional or alternate bids unless called for, incomplete bids, or Proposals otherwise regular which are not accompanied by the appropriate Proposal Surety will be considered irregular and may be rejected.

- B. The Owner reserves the right to reject any or all bid Proposals, to waive any formalities, technicalities, or irregularities therein, to award or refrain from awarding a contract for work, and to readvertise for bid Proposals.
- C. Proposals may be considered irregular for the following reasons:
- (1) If the Proposal is on a form other than that furnished by the Owner or provided by the online bidding website, or if the Owner's form is altered, or if any part of the Proposal Form is detached.
 - (2) If there are unauthorized additions, conditional or alternative pay items, or irregularities of any kind which made the Proposal incomplete, indefinite, or otherwise ambiguous.
 - (3) If the Proposal does not contain a unit price for each pay item listed in the Proposal, except in the case of authorized alternate pay items, for which the Bidder is not required to furnish a unit price.
 - (4) If the Proposal contains unit prices that are obviously unbalanced.
 - (5) If the Proposal is not accompanied by the Proposal Surety, as specified by the Owner.
 - (6) If Bidder's qualifications are not submitted as required.

15. ESTIMATED QUANTITIES AND BID FORM:

Estimated quantities for unit price items are approximate only, being given as a basis for the uniform comparison of Bids. The Owner does not expressly nor by implication agree that the actual amount of work will correspond therewith.

The Owner reserves the right, as a condition for awarding the Contract, to increase or diminish the amount of any classes or portion of the work or to omit construction in certain locations, as may be determined by the Owner.

The Bid Form, which follows, consists of items of work for which Bid unit prices are requested and/or items of work for which Bid lump sum prices are requested. Each Bid shall state a unit price for each unit price item and a lump sum price for each lump sum item (if applicable). Each unit price shall be multiplied by the quantity of the item and the result stated as the total amount for the item. All such total amounts shall be added together with the sum of all lump sum prices and the grand total of the Bid when correctly calculated will be used in the comparison of Bids received.

16. REGISTERED TO DO BUSINESS IN THE COMMONWEALTH OF MASSACHUSETTS:

All Bidders shall be registered to do business within the Commonwealth of Massachusetts. Registration can be obtained through the Commonwealth of Massachusetts, Department of Revenue office (800) 392-6089 or <https://mtc.dor.state.ma.us/mtc/#1>.

The three (3) lowest Bidders shall provide proof of registration within 72 hours of the Bid Opening.

17. NON-DISCRIMINATION AND SEGREGATED FACILITIES:

Federal Solicitation and Contract Clauses and are not required for this project.

Although many federal solicitation and contract clauses are not required due to not having federal project funding, it is the policy of the Owner will not discriminate against any bidder because of race, color, religion, sex, or national origin.

18. COMPLIANCE WITH LAW:

Bidders must comply with all rules, laws and regulations which includes some applicable requirements as described in the Required Federal Contract Provisions for AIP Obligated Sponsors in Division 1 of these Specifications.

The Contractor covenants and agrees that they and their agents and employees will comply with all municipal, state and federal laws, applicable national and local codes, Town of Nantucket, and Nantucket Memorial Airport rules and regulations applicable to the work to be conducted under this Agreement.

19. OSHA:

Bidder certifies that all material, equipment, etc., contained in their bid Proposal meets all OSHA requirements.

20. BUY AMERICAN PREFERENCES:

Federal Solicitation and Contract Clauses are not required for this project.

21. DAVIS-BACON ACT:

Federal Solicitation and Contract Clauses are not required for this project.

22. STATE PREVAILING WAGES:

Bidders and Contractors must comply with the provisions of the Commonwealth of Massachusetts Prevailing Wage Act and regulations as described in Division 1 of the Contract Documents concerning Commonwealth of Massachusetts Prevailing Wage Rates and any references in Division 2 - SGP of the Contract Documents.

23. DEBARMENT AND SUSPENSION:

Federal Solicitation and Contract Clauses are not required for this project.

24. DISADVANTAGE BUSINESS ENTERPRISE PARTICIPATION:

Federal Solicitation and Contract Clauses are not required for this project.

25. MINORITY/WOMEN BUSINESS ENTERPRISE & SMALL BUSINESS PARTICIPATION:

Massachusetts Solicitation and Contract Clauses are not required for this project.

26. EQUAL EMPLOYMENT OPPORTUNITY (EEO) AND AFFIRMATIVE ACTION:

Federal Solicitation and Contract Clauses are not required for this project.

27. FOREIGN TRADE RESTRICTIONS:

Federal Solicitation and Contract Clauses are not required for this project.

END OF SECTION IB

**NOTE: THIS PROJECT IS BEING BID ELECTRONICAL USING: BID
DOC ONLINE. REFER TO INSTRUCTIONS TO BIDDERS.**

PROPOSAL DOCUMENTS

for

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

PREPARED FOR:

**Town of Nantucket - Nantucket Airport Commission
Nantucket, Massachusetts**

PREPARED BY:



**125 Nagog Park Ste 220
Acton, Massachusetts 01720
Phone: (978) 692-0522**

April 2025

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PROPOSAL FORM

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

Date: _____

To: Nantucket Memorial Airport

The undersigned (hereinafter called the Contractor) proposes to furnish all labor, equipment and materials required for **“SOUTH APRON SOUND BARRIER”** in accordance with the accompanying Contract Documents as defined in the Supplemental General Provisions and prepared by McFarland Johnson, Inc., for the amounts listed below, subject to additions and deductions in accordance with the terms of the Specifications. It being understood that the Owner will be the sole judge as to acceptance of Bids and award of the Contract.

Bidder agrees to complete the work under this Contract within the time specified in the Invitation to Bid.

B. This Bid includes addenda:

<u>Number</u>	<u>Date</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

C. Bidders agree to perform all of the work described in the Contract Documents and tabulated below for the following unit and lump sum prices.

It is understood that the quantities given in this Bid Form are approximate only and are given as a basis for comparison of Bids. The Owner does not expressly or by implication agree that the actual amount of work will even approximately correspond herewith, but reserves the right to increase or decrease the amount of any item of the work listed, and the unit prices quoted in the Bid shall apply without change to such variation in the quantity of each of the items, except as further clarified herein. The Owner further reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

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BASE BID

ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
C-105-1	$\frac{1}{LS}$	<u>Mobilization (5% Limit) for the Lump Sum price of:</u> _____ dollars and _____ cents.				
C-102-5.1F	$\frac{9}{EA}$	<u>Inlet Protection for the Unit Price per Each of:</u> _____ dollars and _____ cents.				
M-120-1	$\frac{1}{LS}$	<u>SPCD Preparation and CSPP & SPCD Monitoring Implementation (1% Maximum) for the Lump Sum price of:</u> _____ dollars and _____ cents.				
M-120-2	$\frac{1300}{LF}$	<u>Work Zone Delineation Fence for the Unit Price per Linear Foot of:</u> _____ dollars and _____ cents.				
M-120-3	$\frac{1}{LS}$	<u>Maintenance and Protection of Traffic (5% Maximum) for the Lump Sum price of:</u> _____ dollars and _____ cents.				

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ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
M-200-1	$\frac{130}{EA}$	<u>Drilled Shaft Concrete Foundation</u> for the Unit Price per Each of: _____ dollars and _____ cents				
M-300-1	$\frac{31,400}{SF}$	<u>Sound Wall Barrier</u> for the Unit Price per Square Foot of: _____ dollars and _____ cents				
M-400-1	$\frac{1}{EA}$	<u>Groundwater Monitoring Well Removal</u> for the Unit Price per Each of: _____ dollars and _____ cents				
P-151-4.3	$\frac{10}{EA}$	<u>Select Tree Cutting & Removal</u> for the Unit Price per Each of: _____ dollars and _____ cents				
P-152-4.1	$\frac{110}{CY}$	<u>Unclassified Excavation</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				
P-152-4.2	$\frac{150}{CY}$	<u>Embankment in Place – On-Site Borrow</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				

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ITEM NO.	ESTIMATE D QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
T-901-5.1	<u>12</u> KSF	<u>Seeding</u> for the Unit Price per 1000 Square Feet of: _____ dollars and _____ cents				
T-905-5.1	<u>150</u> CY	<u>Topsoil – Obtained On-Site</u> for the Unit Price per Cubic Yard of: _____ dollars and _____ cents				

BASE BID SUMMARY

TOTAL BASE BID: _____
(Words)

_____ dollars and

_____ cents (\$ _____)
(Figures)

The Owner reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

Amounts are to be shown in both words and figures. In case of Discrepancy, the amount shown in words will govern.

The above unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all Bids and to waive any informalities in the Bidding. The Bidder agrees that this Bid shall be good and may not be withdrawn for the period as specified in the Invitation to Bid.

The undersigned further certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

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The undersigned agrees that if they are selected as the Contractor they will, within five (5) calendar days, after presentation thereof by the Owner, unless otherwise directed in writing by the Owner, execute a Contract in accordance with the terms of this General Bid and furnish a Performance Bond for 100% of the Contract Price and Payment Bond for 100% of the Contract Price, each of a Surety company meeting the requirements contained in the Contract Documents and satisfactory to the Owner, the premiums of which are to be paid by the Contractor and are included in the Contract amount.

Bidder proposes to provide all labor and materials to complete the work, as specified in the Contract Documents, and as is reasonably expected due to the existing conditions and required construction.

The undersigned hereby certifies that they are able to furnish labor that can work in harmony with all other elements of labor employed, or to be employed on the work, and that they will comply fully with all laws and regulations applicable to award of this contract.

The undersigned agrees to guarantee all of the work performed under this Contract to be done in accordance with the Contract Documents in a good and workmanlike manner and to renew or repair any work which may be rejected, due to defective materials or workmanship, prior to final completion and acceptance of the work.

The Bid Security attached in the sum of \$_____ is to become the property of the Owner, in the event the Contract and Bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner causes thereby.

Company Name

Address

Name of Authorized Signature

Signature

Title

Date

(SEAL - if Bid is by a corporation)

**CERTIFICATE AS TO CORPORATE PRINCIPAL
FOR PROPOSAL**

(IF A CORPORATION)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally came _____

to me known, who being by me duly sworn, did depose and say as follows:

That they reside at _____

and are the _____

of _____

the corporation described in, and which executed the foregoing instrument; that they know the corporate seal of said corporation; that the seal affixed to the foregoing instrument is such corporate seal and it was so affixed by order to the Board of Directors of said corporation; and that by the like order they signed thereto their name and official designation.

Notary Public (Seal) _____

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

**PARTNERSHIP CERTIFICATE
FOR PROPOSAL**

(IF A PARTNERSHIP)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally appeared _____

known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they are a general partner in the firm of

_____;

and that said firm consists of themselves and _____

_____, and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal) _____

My Commission expires: _____

**INDIVIDUAL CERTIFICATE
FOR PROPOSAL**

(IF AN INDIVIDUAL)

State of _____)

County of _____)

On this _____ day of _____, 2025

before me personally appeared _____

known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they are the owner of the

firm _____;

and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal) _____

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

BID BOND

(Not to be filled in if a Cashier's Check is submitted)

KNOW ALL MEN BY THESE PRESENTS That the undersigned Bidder, _____
_____, as Principal, and _____
_____, as Surety, are held and firmly bound unto the **Town of Nantucket -
Nantucket Memorial Airport Commission** in the sum of _____
_____ dollars (\$ _____) for the payment of which, well and truly to be made,
we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors,
and assigns.

THE CONDITION OF THIS OBLIGATION is such that if Principal:

1. Does not withdraw the attached Proposal of _____ dollars
(\$ _____) for the project to **South Apron Sound Barrier**; and

2. Enters into the written Contract and furnishes the required Certificates of Insurance,
Payment and Performance Bonds, with Surety or Sureties acceptable to the **Town of Nantucket -
Nantucket Memorial Airport Commission**, within **Five (5)** days after Notice that the said Proposal
is accepted, then this obligation shall be void; otherwise, the same shall be in full force and the full
amount of this Proposal.

Bond shall be paid to the **Town of Nantucket - Nantucket Memorial Airport Commission** as
stipulated herein as liquidated damages. Signed this _____ day of _____
_____, 2025.

(PRINCIPAL MUST INDICATE
WHETHER CORPORATION, PARTNERSHIP
COMPANY, OR INDIVIDUAL)

Principal

THE PERSON SIGNING FOR THE
PRINCIPAL SHALL, IN THEIR OWN
HANDWRITING, SIGN THE PRINCIPAL'S
NAME, THEIR OWN NAME, AND THEIR
TITLE. WHERE THE PERSON SIGNING FOR
CORPORATION IS OTHER THAN THE
PRESIDENT OR VICE PRESIDENT, THEY
MUST FURNISH A CORPORATE RESOLUTION
SHOWING THEIR AUTHORITY TO BIND THE
CORPORATION.

(Affix Surety's Corporate Seal)

_____ Surety

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SURETY'S BOND AFFIDAVIT

STATE OF _____)

SS

COUNTY OF _____)

BEFORE ME, THE UNDERSIGNED AUTHORITY, PERSONALLY APPEARED _____
_____ WHO, BEING DULY SWORN, DEPOSES AND SAYS THAT
THE UNDERSIGNED IS A DULY AUTHORIZED (RESIDENT) (NON-RESIDENT) INSURANCE
AGENT, PROPERLY LICENSED UNDER THE LAWS OF THE STATE OF _____
_____, OF _____, A COMPANY AUTHORIZED TO
MAKE CORPORATE SURETY BONDS UNDER THE LAWS OF THE STATE OF
MASSACHUSETTS

SAID _____ FURTHER CERTIFIES THAT AS
ATTORNEY-IN-FACT FOR THE SAID _____, THEY
HAVE SIGNED THE ATTACHED BOND IN THE SUM OF _____
DOLLARS (U.S. \$ _____) ON BEHALF OF _____
_____ FOR

**NANTUCKET MEMORIAL AIRPORT COMMISSION, TOWN OF NANTUCKET, COVERING
PROJECT – SOUTH APRON SOUND BARRIER**

COUNTERSIGNED:

MASSACHUSETTS RESIDENT AGENT

AGENT AND ATTORNEY-IN-FACT

ACKNOWLEDGEMENT FOR ATTORNEY-IN-FACT

SWORN TO AND SUBSCRIBED BEFORE ME THIS
_____ DAY OF _____, 20__.

NOTARY PUBLIC,
MY COMMISSION EXPIRES: _____

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This signature page is included in this Proposal Documents to provide assistance to all Bidders in the form of a checklist and to stipulate that if any of the items mentioned below, but not limited to, are incomplete or otherwise incorrect, the Owner may reject the bid.

I. BID CERTIFICATION CHECKLIST

- A. Bid Certification Checklist Form with Signature **BC1 section**

II. BID PROPOSAL FORM AND BID BOND

- A. Bid Proposal Acknowledgement Form of Addenda & Notes and Signature **PA section**
- B. Bid Bond (or other acceptable surety as stated in Information to Bidders) **BB section**

NOTE: Original hard copy of Bid Bond submitted within 72 hours of bid to:

Nantucket Memorial Airport
ATTN: Warren Smith
14 Airport Road, Unit 1
Nantucket, MA 02554

III. REQUIRED FORMS AND SIGNATURE

- A. Bidders Qualifications **BC2 section**
- B. List of Subcontractors and Suppliers **BC3 section**
- C. Affirmative Action Certification *Not Required*
- D. Certificate of Buy American Compliance for Construction Products *Not Required*
- E. Certificate of Offeror/Bidder Regarding Debarment *Not Required*
- F. Subcontractor/Supplier DBE and SB Letter of Intent with Good Faith Effort . *Not Required*
- G. Prime Contractor – DBE/SB Reporting Information Form *Not Required*
- H. Subcontractor/Supplier – DBE/SB Reporting Information Form *Not Required*
- I. Certification Regarding Lobbying *Not Required*
- J. Prohibition of Segregated Facilities *Not Required*
- K. Certificate of Offeror/Bidder Regarding Tax Delinquency
& Felony Conviction..... *Not Required*
- L. Trade Restriction Certification *Not Required*
- M. Non-Collusion Affidavit (Bidder/Offeror) **Form MJ-111**
- N. Statement of OSHA Training **Form MJ-120-MA**

IV. PROPOSAL SECTION NOTES

Unit Price Bids will be considered to be incomplete if any of the following conditions exist:

- A. Unit Price in figures is omitted
- B. A zero, N/A, or blank is to be used as a bid price in the Bid Form.

V. MISCELLANEOUS NOTES

- A. All Forms shall be in **BLUE** or **BLACK INK** or **TYPED**
- B. All documents provided with the proposal form are considered a part thereof and must not be altered when the proposal is submitted.

VI. CERTIFICATION SUMMARY

I hereby certify that I have read all of the above requirements and understand that it affects the acceptability of my bid.

Bidder Signature

Date

NOTE:

In addition to the Bid Certification Documents noted above, the two (2) lowest Bidders shall provide proof of registration with the Commonwealth of Massachusetts Department of Revenue to perform work in Massachusetts within 72 hours of bid.

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5. Has your present organization ever failed to complete any work awarded to it? If so, state when, where and why.

6. Give below, the name of one or more banks which have information that would enable them to advise regarding the financial ability of your company.

Name of Bank:	Address:	Telephone No.
---------------	----------	---------------

<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

7. The names and residences of all persons and parties interested in this proposal as principals are as follows:

NOTE: In case of a corporation, give names of officers and directors; in case of a partnership, give names of all partners.

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Dated at _____

this _____ day of _____, 2025.

Name of Bidder: _____

By: _____

Title: _____

State of _____ ss.

County of _____

Being duly sworn, deposes and says that he/she is

(Title)

Of _____
(name of organization)

and that the answers to the foregoing questions and statements contained therein are true and correct.

Sworn to before me this _____ day of _____ 2025.

My commission expires: _____

Notary Public

ATTACH ADDITIONAL PAGES IF NECESSARY TO DEMONSTRATE QUALIFICATIONS.

Last Modified: 04/18/2025 at 12:56PM EDT

BIDDER'S PROPOSED LIST OF SUBCONTRACTORS & SUPPLIERS

The Bidder advises herein that the following Subcontractors and Suppliers are proposed for the item of work listed. Subcontractors are subject to review per the requirements of the Contract Documents and the technical requirements specified. List only subcontracting firms that will supply labor at the site AND significantly large, or Disadvantaged Business Enterprise, equipment/material suppliers.

Failure to provide this information may result in the bid being considered non-responsive.

	<u>SUBCONTRACTOR OR SUPPLIER NAME</u>	<u>DBE (Y/N)</u>	<u>TRADE</u>	<u>CONTRACT WORK ITEM TO BE PERFORMED</u>	<u>VALUE (\$)</u>
1.	_____				
2.	_____				
3.	_____				
4.	_____				
5.	_____				
6.	_____				
7.	_____				
8.	_____				
9.	_____				
10.	_____				
11.	_____				
12.	_____				
13.	_____				
14.	_____				
15.	_____				

RESPECTFULLY SUBMITTED:

_____ (Bidder)

By: _____

Title: _____

Date: _____

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NON-COLLUSION AFFIDAVIT (BIDDER OR OFFEROR)

I, (enter full legal name) _____,

representing (name of person, firm, association, or corporation) _____

_____ of (Town or City and State) _____

certify under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph, the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

Name of Individual, Partnership, or Corporation (Please Print or Type)

Signature of Official Authorized to Sign Contracts and Agreements

Name of Individual Signing Affidavit

Title of Individual Signing Affidavit

Sworn to before me this ____ day of _____, 20__

(Notary Public)

My Commission Expires _____

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NON-COLLUSION AFFIDAVIT (BIDDER OR OFFEROR)

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STATEMENT OF OSHA TRAINING COMPLIANCE

Pursuant to M.G.L. c.30, §39S, any person submitting a bid for, or signing a contract to work on, a public building or public works project estimated to cost more than \$10,000 shall certify on the bid, or contract, under penalties of perjury, as follows:

- (1) that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work;
- (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and
- (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

I, _____ authorized signatory for _____, do hereby certify under the pains and penalties of perjury that all employees employed on the worksite, or in work subject to the bid, have successfully completed at least 10 hours of OSHA approved training.

Signature of Individual or Corporation Name

By:

(Corporate Officers Name)

(Corporate Officers Title)

Social Security Number
or Federal Identification Number

Date

STATEMENT OF OSHA TRAINING COMPLIANCE

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DIVISION B – CONTRACT AND CONTRACT FORMS

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AWARD OF CONTRACT AND EXECUTION OF CONTRACT BONDS

1. Consideration of Proposals and Award of Contract

The award of the Contract, if it is awarded, will be to the lowest responsive and responsible Bidder whose qualifications indicate the award will be in the best interest of the Owner and whose Proposal complies with all the prescribed requirements. No award will be made until the Owner has concluded such investigations as it deems necessary to establish the responsibility, qualifications, and financial ability of the Bidders to do the work in accordance with the Contract Documents to the satisfaction of the Owner within the time prescribed. The Owner reserves the right to reject the bid Proposal of any Bidder who does not pass such investigation to the Owner's satisfaction. If the Contract is awarded, the Owner will give the successful Bidder written notice of the award by the Bid Valid Period date specified in the Invitation to Bid. Until the final award of the Contract, the Owner reserves the right to reject any or all Proposals, or to proceed to do the work otherwise when the best interests of the Owner will be promoted thereby.

2. Return of Proposal Surety

As soon as the Proposals have been compared, the Owner may, at its discretion, return the Proposal Surety accompanying those Proposals which, in its judgment, would not be considered in making the award. When award is made, the successful Bidder's Proposal Surety and that of the next low Bidder will be retained until the Contract has been executed and acceptable Contract Surety received, after which it will be returned to the Bidders. Should the award be delayed beyond the Bid Valid Period date specified in the Invitation to Bid, all Bidder's Proposal Surety will be returned, unless such delay is from causes beyond the control of the Owner. See Division 2 – Special Provision/Supplemental General Provisions, Part A Item 18 for additional information on Proposal and Contract Surety.

3. Requirements of Contract Surety

Contract Surety shall include a good and sufficient Performance Bond and labor and material Payment Bond, each in the sum of one-hundred percent (100%) of the awarded Contract amount, along with appropriate Power of Attorney. Contract Surety shall be delivered to the within fifteen (15) calendar days from the date of Notice of Award, simultaneously with Contractor's execution of the Contract. See Division 2 – Special Provision/Supplemental General Provisions, Part A Item 18 for additional information on Proposal and Contract Surety.

4. Execution of Contract

The successful Bidder shall sign (execute) the Contract and associated documents and return them to the Owner, along with the fully executed Contract Surety and required insurance certificates, if applicable, within 15 calendar days from the date on the Notice of Award by the Owner. If the Contract is mailed, special handling is recommended.

5. Approval of Contract

Upon receipt of acceptable insurance certificates, Contract, Contract Surety, and associated documentation that have been executed by the successful Bidder, the Owner shall complete the execution of the Contract in accordance with local laws or ordinances and return the fully executed Contract documents to the Contractor. The Contract is not binding upon the Owner until it has been executed by the Owner and delivered to the Contractor.

6. Failure to Execute Contract

Failure of the successful Bidder to execute the Contract and furnish acceptable insurance certificates, Contract Surety and other required Contract documents within the fifteen (15) calendar day period after receiving Notice of Award shall be just cause for cancellation of the award and forfeiture of the Proposal Surety, not as a penalty, but as liquidation of damages to the Owner. Award may then be made to the next best qualified Bidder, or the work re-advertised, or handled as the Owner may elect.

7. Maintenance Bond

The Bidder to whom the Contract is awarded must deposit with the Owner at the date of substantial completion of the Contract a Maintenance Surety Bond as described in Division 2 – Special Provision/Supplemental General Provisions, Part A Item 18.

END OF AWARD OF CONTRACT AND EXECUTION OF CONTRACT BONDS

<i>Town of Nantucket Use Only</i>	
Contract No.	_____
PO No.	_____
Vendor No.	_____



TOWN OF NANTUCKET
AGREEMENT BETWEEN
THE TOWN OF NANTUCKET
AND
XXXXXXXXXXXXXXXXXX

PROJECT: South Apron Sound Barrier

THIS AGREEMENT made effective _____, 2025, by and between the **TOWN OF NANTUCKET, MASSACHUSETTS**, a municipal corporation, acting by and through its **NANTUCKET AIRPORT COMMISSION**, with offices at 14 Airport Road , Nantucket, Massachusetts 02554 (hereinafter called the "TOWN"), and **XXXXXXXXXX** whose principal office address and state of incorporation are as set forth on Exhibit A (hereinafter called the "CONTRACTOR").

RECITALS:

WHEREAS, the AIRPORT desires to retain the CONTRACTOR to provide certain services for the AIRPORT, as described below, and the CONTRACTOR is willing to accept such engagement, all on the terms hereinafter set forth,

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

ARTICLE 1 - ENGAGEMENT OF THE CONTRACTOR

- 1.1 The AIRPORT hereby engages the CONTRACTOR, and the CONTRACTOR hereby accepts the engagement to perform certain services for the AIRPORT, as described in Article 2.
- 1.2. In the performance of any service under this Agreement, the CONTRACTOR acts at all times as an independent contractor. There is no relationship of employment or agency between the AIRPORT, on the one hand, and the CONTRACTOR, on the other, and the AIRPORT shall not have or exercise any control or direction over the method by which the CONTRACTOR performs its work or functions aside from such control or directions which are consistent with the independent contractor relationship contemplated in the Agreement.

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ARTICLE 2 - SERVICES OF THE CONTRACTOR

- 2.1 The CONTRACTOR will perform the services described in the Scope of Services set forth on Exhibit B (the "Work").
- 2.2 The CONTRACTOR shall report, and be responsible, to the AIRPORT and its designee (if any) as set forth on Exhibit A.
- 2.3 There shall be no amendment to the Scope of Services or Work provided for in this Agreement without the written approval of the AIRPORT. The AIRPORT shall be under no obligation to pay for any services performed by the CONTRACTOR which are not explicitly agreed to by the AIRPORT in writing.
- 2.4 The CONTRACTOR represents and warrants to the AIRPORT that the CONTRACTOR (including all of its personnel, whether employees, agents or independent contractors) will be qualified and duly licensed (if necessary) to perform the services required by this Agreement and further agrees to perform its services in a professional manner, and in accordance with the reasonable standard of care implied by law and all applicable local, state or federal ordinances, laws, rules and regulations, all of which are incorporated herein by reference. The CONTRACTOR will obtain and pay for any and all permits, bonds and other items required for the proper and legal performance of the Work.
- 2.5 The CONTRACTOR represents and warrants to the AIRPORT that it is not a party to any agreement contract or understanding which would in any way restricts or prohibits it from undertaking or performing its obligations hereunder in accordance with the terms and conditions of this Agreement.
- 2.6 All written materials and any other documents (whether in the form of "hard" copies, graphics, magnetic media or otherwise) which are received and produced by the CONTRACTOR pursuant to this Agreement shall be deemed to be "work for hire" and shall be and become the property of the AIRPORT upon the receipt and production of such items by the CONTRACTOR. The AIRPORT acknowledges that such materials are being prepared with respect to the specific project contemplated hereby and that any reuse of such materials by the AIRPORT in connection with any other project shall be at the AIRPORT's sole risk, unless otherwise agreed to by the CONTRACTOR in writing.
- 2.7 The CONTRACTOR shall be responsible for the professional and technical accuracy, and for the coordination, of all designs, drawings, specifications, estimates and other work or services furnished by CONTRACTOR or its consultants and subcontractors. The CONTRACTOR shall perform its work under this Agreement in such a competent and professional manner that detail checking and reviewing by the AIRPORT shall not be necessary. The CONTRACTOR shall supervise and direct the Work, using its best skills and attention, which shall not be less than such state of skill and attention generally rendered by the design and engineering profession for projects similar to the subject project in scope, difficulty and location.

- 2.8 The CONTRACTOR shall not use any subcontractors or sub-consultants (not identified herein) for any work required under this Agreement unless such use has been approved in advance in writing by the AIRPORT.
- 2.9 Notwithstanding anything to the contrary in this Agreement, the CONTRACTOR shall not be relieved of its obligations under this Agreement by the AIRPORT's performance, or failure to perform, any of the AIRPORT's administrative duties under this Agreement, including, but not limited to, the AIRPORT's review and/or approval of plans, estimates, programs, documents, materials, work and services furnished by CONTRACTOR.

ARTICLE 3 - PERIOD OF SERVICES

- 3.1 Unless otherwise provided on Exhibit A, the term of this Agreement shall commence on the date hereof and continue until the Work is completed to the AIRPORT's reasonable satisfaction.
- 3.2 The CONTRACTOR shall proceed with the Work promptly after receiving Notice to Proceed and will diligently and faithfully prosecute the Work to completion in accordance with the provisions hereof. In any event, the Work shall be completed no later than the date set forth on Exhibit A. The CONTRACTOR acknowledges that time is of the essence of this Agreement.
- 3.3 If the CONTRACTOR is delayed in the performance of any of its obligations under this Agreement by the occurrence of an unforeseen event beyond its control such as fire or other casualty, abnormal adverse weather conditions, acts of God (collectively, "Unavoidable Events") which materially and adversely affect its ability to perform the Work, then the time for the CONTRACTOR to perform the Work shall be extended for such time as the AIRPORT shall reasonably determine is necessary to permit the CONTRACTOR to perform in light of the effects of the Unavoidable Event.

If an Unavoidable Event occurs which, in the AIRPORT's reasonable determination, makes the performance of the Agreement impossible without the expenditure of additional AIRPORT funds, the AIRPORT may, at its option, elect to terminate this Agreement upon thirty (30) days written notice.

ARTICLE 4 - PAYMENTS TO THE CONTRACTOR

- 4.1 The compensation due to the CONTRACTOR shall be paid in the amounts, and in the manner, set forth on Exhibit C, attached hereto.
- 4.2 The CONTRACTOR will bill the AIRPORT at the completion of the work unless otherwise provided on Exhibit C, with one or more invoices broken down to show the quantity of work performed and the percentage of the entire project completed, categories and amount of reimbursable expenses (if any) and provide such supporting data as may be required by the AIRPORT.

- 4.3 The AIRPORT will pay the CONTRACTOR upon review and approval of such invoices by the AIRPORT or its designee.
- 4.4 This engagement may be subject to budgetary restrictions which may limit the total amount of funds available for the Work. Accordingly, unless otherwise stated on Exhibit C, the AIRPORT will not be obligated to pay any amount in excess of the maximum project amount without the express written approval of the AIRPORT.
- 4.5 The CONTRACTOR and its sub-contractors shall not be compensated for any services involved in preparing changes that are required for additional work that should have been anticipated by the CONTRACTOR in the preparation of the documents, as reasonably determined by the AIRPORT.

ARTICLE 5 – TERMINATION

- 5.1 This Agreement may be terminated, with cause, by either the AIRPORT or CONTRACTOR, upon written notice given by the non-defaulting party. For the purposes of this provision, "cause" shall include the failure of a party to fulfill its material duties hereunder in a timely and proper manner.
- 5.2 The AIRPORT shall have the right to terminate this Agreement for its convenience and without cause upon ten (10) days written notice.
- 5.3 Following termination of this Agreement, the parties shall be relieved of all further obligations hereunder except:
 - (a) unless the AIRPORT terminates for cause under paragraph 5.1, in which event the AIRPORT shall be under no obligation to make any payments to CONTRACTOR except for those services satisfactorily provided, the AIRPORT shall remain responsible for payments for the services satisfactorily performed and, unless this Agreement is for a lump-sum, expenses of CONTRACTOR reasonably accrued prior to the effective date of the notice of termination in compliance with this Agreement (less the value of any claims of the AIRPORT), all as determined by the AIRPORT in its sole discretion, but for no other amounts, including, without limitation, claims for lost profits on Work not performed; and
 - (b) The CONTRACTOR shall remain liable for any damages, expenses or liabilities arising under this Agreement (including its indemnity obligations) with respect to WORK performed pursuant to the Agreement.

ARTICLE 6 - INSURANCE AND INDEMNIFICATION

- 6.1 The CONTRACTOR agrees to indemnify and save the AIRPORT harmless from any and all manner of suits, claims, or demands arising out of any errors, omissions or negligence by CONTRACTOR (including all its employees, agents and independent contractors) in performing the Work, or any breach of the terms of this Agreement by such CONTRACTOR and shall reimburse the AIRPORT for any and all costs, damages and

expenses, including reasonable attorney's fees, which the AIRPORT pays or becomes obligated to pay, by reason of such activities, or breach. The provisions of this Section 6.1 shall be in addition to, and shall not be construed as a limitation on, any other legal rights of the AIRPORT with respect to the CONTRACTOR, in connection with this Agreement, and shall survive termination or expiration of this Agreement.

6.2 Before commencing work the CONTRACTOR shall obtain and maintain at its expense and from insurance companies of a Best Rating of A or better, which are licensed to do business in the Commonwealth of Massachusetts, insurance as set forth below. If the CONTRACTOR is permitted to sub-contract a material portion of the Work, or is otherwise identifying a third party to perform services for the Airport, the CONTRACTOR shall assure that such sub-contractor or other third party also has such insurance.

- (a) Workers' Compensation, covering the obligations of the CONTRACTOR in accordance with applicable Workers' Compensation or Benefits laws.
- (b) Commercial General Liability Insurance on an occurrence basis with a combined single limit of not less than \$1 million. Coverage is to include premises and operations, coverage for liability of subcontractors. The policy shall contain an endorsement stating that the aggregate limits will apply separately to the work being performed under this Agreement.
- (c) Automobile Liability Insurance of not less than \$1 million combined single limit covering owned, hired and non-hired vehicle use.
- (d) Errors and Omissions Insurance of not less than \$2 million per claim. The coverage shall be in force from the date of execution of the Agreement to the date when all design and construction work is completed and accepted by the AIRPORT, unless, however, the policy is a "claims made policy," in which event the policy shall remain effective and in full force for a period of six (6) years after completion of all design and construction work relating to the engagement.
- (e) Such additional insurance as may be required to be carried by the CONTRACTOR by law.
- (f) Such additional insurance as the AIRPORT may reasonably require, as set forth on Exhibit A.

CONTRACTOR shall maintain such insurance during the term of Agreement and give the AIRPORT twenty (20) days written notice of any change or cancellation of coverage. Each insurer providing policies hereunder shall waive its rights to subrogate claims against the AIRPORT. The AIRPORT will be added as an additional named insured with respect to each such policy and such endorsement shall be reflected on a Certificate of Insurance to be delivered to the AIRPORT upon the execution of this Agreement and at such times thereafter as the AIRPORT may reasonably request.

ARTICLE 7 - GENERAL PROVISIONS

- 7.1 Upon the expiration or the termination of this Agreement for any reason, all data, drawings, specifications, reports, estimates, summaries and other work product which have been accumulated, developed or prepared by the CONTRACTOR (whether completed or in process) shall become the property of the AIRPORT upon payment for such to the CONTRACTOR and the CONTRACTOR shall immediately deliver or otherwise make available all such material to the AIRPORT.
- 7.2 Neither party may assign, transfer or otherwise dispose of this Agreement or any of its rights hereunder or otherwise delegate any of its duties hereunder without the prior written consent of the other party, and any such attempted assignment or other disposition without such consent shall be null and void and of no force and effect.
- 7.3 Except as otherwise expressly provided in this Agreement, any decision or action made by the AIRPORT relating to this Agreement, its operation, amendment or termination, shall be made by the Board, Committee or Authority of the AIRPORT specified in the initial paragraph of this Agreement, unless specifically authorized or delegated by a lawful vote of such body.
- 7.4 This Agreement, together with Exhibit A (Contractor, Term), Exhibit B (Scope of Work), Exhibit C (Payments), and Exhibit D (Tax Compliance Certificate), and any additional exhibits referred to therein, constitute the entire agreement of AIRPORT and CONTRACTOR with respect to the matters set forth therein and may not be changed, amended, modified or terms waived except by a writing signed by AIRPORT and CONTRACTOR. If there is any conflict among the terms set forth in the body of this Agreement and the terms or provisions set forth in Exhibit A, Exhibit B, or Exhibit C, or in any other attachment hereto, or in any other document or law incorporated by reference herein, such conflict shall be resolved by giving precedence to the party's address above by certified mail, return receipt requested Terms or provisions contained in the following documents in accordance with the following hierarchy, with the topmost document of the highest priority:
 - A. Applicable federal, state and local laws, rules and regulations.
 - B. Amendments to this Agreement, if any.
 - C. Exhibits A, B, and C.
 - D. This Agreement.
 - E. Any other attachments to this Agreement.

To the extent the conflict is not resolved by applying the above hierarchy, the conflict shall be resolved in a manner that results in the highest quantity and best quality of goods and services to the AIRPORT.

- 7.5 This Agreement is governed by the law of The Commonwealth of Massachusetts and shall be construed in accordance therewith. The parties agree that exclusive jurisdiction

SAMPLE CONTRACT FORM

for any action arising out of or relating to this Agreement shall lie with the state and federal courts having jurisdiction over the county and state in which the Town is located and the parties hereby irrevocably waive, to the fullest extent permitted by law, any objection which they may now or hereafter have to the venue of any proceeding brought in such location and further irrevocably waive any claims that any such proceeding has been brought in an inconvenient forum.

- 7.6 Any notices required or allowed shall be to the person's address above by certified mail, return receipt requested.
- 7.7 Notwithstanding anything to the contrary in this Agreement, this Agreement is subject to the appropriation and availability of funds.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first written above.

CONTRACTOR:

NANTUCKET MEMORIAL AIRPORT
COMMISSION:

Mr. Arthur Gasbarro,
Chairman

DATE: _____

DATE: _____

Approved as to Funds Available:

DATE: _____

DATE: _____

Brian E. Turbitt
Director of Municipal Finance

FOR TOWN OF NANTUCKET USE ONLY

Funding ORG/OBJ(s):

Purchase Order #:

Last Modified: 04/18/2025 at 12:56PM EDT

CONTRACT EXHIBIT A

CONTRACTOR, TERM, COMPLETION

1. **Name of Contractor:**
2. **State of Incorporation:**
3. **Principal Office Address:**
4. **Person, Department, or Committee, if any, to whom CONTRACTOR reports (§ 2.2):**
5. **Term of Agreement (§3.1): One Hundred (100) Calendar Days**
6. **Completion Date (§3.2):**
7. **Liquidated Damages (§3.2):** The AIRPORT may retain the sum of **Two Thousand Five Hundred Dollars (\$2,500.00) for each calendar day**, Sundays and holidays included, that the Work remains incomplete beyond the Time for Completion as determined by the AIRPORT in its reasonable judgment.
8. **Additional Insurance Coverage (§6.2(e)):**

CONTRACT EXHIBIT B

SCOPE OF SERVICES, DOCUMENTS INCORPORATED BY REFERENCE

**SOUTH APRON SOUND BARRIER
NANUCKET MEMORIAL AIRPORT
CONTRACT DOCUMENTS
MJ PROJECT 19149.08
DATED APRIL 2025**

**Must meet all requirements of the above referenced Contract Documents
and all of the associated signed Contract Documents forms.**

CONTRACT EXHIBIT C

PAYMENTS

1. Bid (Contract) Amount – Maximum with Line Item Method

- a. **Maximum Project Amount:**
- b. **Payment Increments:** The CONTRACTOR shall submit monthly invoices based on the summary of the individual completed line-item quantities of work as delineated in a progress breakdown report accompanying each invoice for approval and processing by the AIRPORT.
- c. **Reimbursable Expenses (if any):** None.

OR

1. Lump Sum Method

- a. **Maximum Project Amount:**
- b. **Payment Increments:** CONTRACTOR shall submit monthly invoices based on a percentage of work complete work as delineated in a progress report accompanying each invoice for approval and processing by the AIRPORT.
- c. **Reimbursable Expenses (if any):** None

CONTRACT EXHIBIT D

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. 62C, Sec.49A, the undersigned certifies under the penalties of perjury that it, to the best knowledge and belief of management, has filed all state tax returns and paid all state taxes required under law (if any, are so required).

By:

Name

Date

FEIN:

CONTRACT EXHIBIT E

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature of person signing contract

Name of Business

PERFORMANCE BOND

PROJECT:

SOUTH APRON SOUND BARRIER

NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS

MJ# 19149.08

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, _____,

organized under the Laws of the State of _____,

and having a usual place of business in _____,

as Principal and _____,

organized under the Laws of the State of _____,

and having a usual place of business at _____,

as surety, are holden and stand firmly bound and obligated unto the **OWNER**, as obligee, in the sum of:

(\$ _____) Dollars, lawful money of the United States of America, to and for the true payment, whereof, we hereby bind ourselves, and each of us, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has, by means of a written Agreement dated _____ entered into a Contract with the same obligee, a copy of which Agreement is attached hereto and by reference made a part hereof.

NOW, the condition of this obligation is such

THAT, if the said principal, their heirs, administrators, successors, or assigns, shall well and truly keep and perform all the agreements, terms and conditions of said agreement on their part to be kept and performed, including the guarantee in the General Conditions, then this obligation shall be void - otherwise, it shall remain in full force and virtue.

AND, the said surety, for value received, hereby stipulates and agrees that no change in, or extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or to the specifications accompanying the same shall in any way affect their obligations on this bond and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, in the year _____.

PRINCIPAL -

(Seal)

By:

SURETY -

(Seal)

By:

IMPORTANT - Attach herewith proof of Authority of Officers or agents to sign bonds.

PERFORMANCE BOND
CERTIFICATE AS TO CORPORATE PRINCIPAL
(IF A CORPORATION)

State of _____)
County of _____) SS

On this _____ day of _____, 20____

before me personally came _____

to me known, who being by me duly sworn, did depose and say as follows:

That they reside at _____

and is the _____

of _____

the corporation described in, and which executed the foregoing instrument; that they know the corporate seal of said corporation; that the seal affixed to the foregoing instrument is such corporate seal and it was so affixed by order to the Board of Directors of said corporation; and that by the like order they signed thereto their name and official designation.

Notary Public (Seal)

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

**PERFORMANCE BOND
PARTNERSHIP CERTIFICATE
(IF A PARTNERSHIP)**

State of _____)
County of _____) SS

On this _____ day of _____, 20____

before me personally appeared _____ known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they is a general partner in the firm of _____; and that said firm consists of themselves and _____, and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal)

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

**PERFORMANCE BOND
INDIVIDUAL CERTIFICATE
(IF AN INDIVIDUAL)**

State of _____)
County of _____) SS

On this _____ day of _____, 20____

before me personally appeared _____ known to
me and known by me to be the person who executed the above instrument, who, being by me first
duly sworn, did depose and say that they are the owner of the firm
_____; and that they
executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal)

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

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PAYMENT BOND

PROJECT:

SOUTH APRON SOUND BARRIER

NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS

MJ# 19149.08

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, _____,

organized under the Laws of the State of _____,

and having a usual place of business in _____,

as Principal and _____,

organized under the Laws of the State of _____,

and having a usual place of business at _____,

as surety, are holden and stand firmly bound and obligated unto **OWNER** as obligee, in the sum of:

(\$ _____) Dollars, lawful money of the United States of America, to and for the true payment, whereof, we hereby bind ourselves, and each of us, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has, by means of a written Agreement dated _____ entered into a Contract with the same obligee, a copy of which Agreement is attached hereto and by reference made a part hereof.

NOW, the condition of this obligation is such

THAT, if the said principal, their heirs, administrators, successors, or assigns, shall pay for all labor performed or furnished, all materials, including materials so employed which is not incorporated in the construction or repair work and is not wholly or necessarily consumed or made so worthless as to lose its identity but only to the extent of its purchase price less its fair salvage value, and for the retail or hire of vehicles, power shovels, rollers, concrete mixers, tools and other appliances and equipment employed in the work, all persons who contract with the Principal for

labor and materials, all insurance premiums on said work, and the use of all patent rights, used or employed in the carrying out of said Agreement, then this obligation shall be void - otherwise it shall remain in full force and virtue. The obligation shall be in accordance with the Maine State Law.

AND, the said surety, for value received, hereby stipulates and agrees that no change in, or extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or to the specifications accompanying the same shall in any way affect their obligations on this bond and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to be specifications.

AND that no final settlement between the **OWNER** and the principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this _____ day of _____, in the year _____.

PRINCIPAL -

(Seal)

By:

SURETY -

(Seal)

By:

IMPORTANT - Attach herewith proof of Authority of Officers or agents to sign bonds.

PAYMENT BOND
CERTIFICATE AS TO CORPORATE PRINCIPAL
(IF A CORPORATION)

State of _____)
County of _____) SS

On this _____ day of _____, 20____
before me personally came _____
to me known, who being by me duly sworn, did depose and say as follows:

That they resides at _____
and is the _____
of _____

the corporation described in and which executed the foregoing instrument; that they know the corporate seal of said corporation; that the seal affixed to the foregoing instrument is such corporate seal and it was so affixed by order to the Board of Directors of said corporation; and that by the like order they signed thereto their name and official designation.

Notary Public (Seal)

My Commission expires: _____

PAYMENT BOND
PARTNERSHIP CERTIFICATE
(IF A PARTNERSHIP)

State of _____)
County of _____) SS

On this _____ day of _____, 20__

before me personally appeared _____ known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they is a general partner in the firm of

_____ ; and that said firm consists of themselves

and _____, and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal)

My Commission expires: _____

Last Modified: 04/18/2025 at 12:56PM EDT

PAYMENT BOND
INDIVIDUAL CERTIFICATE
(IF AN INDIVIDUAL)

State of _____)
County of _____) SS

On this _____ day of _____, 20__

before me personally appeared _____ known to me and known by me to be the person who executed the above instrument, who, being by me first duly sworn, did depose and say that they are the owner of the firm _____; and that they executed the foregoing instrument on behalf of said firm for the uses and purposes stated herein.

Notary Public (Seal)

My Commission expires: _____

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NOTICE OF AWARD
SOUTH APRON SOUND BARRIER
NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS

MJ# 19149.08

Issued to: **Company Name** _____
 Company Address _____
 Company City/State/Zip _____

Project Title _____

Advertisement Date _____ **Bid Opening Date** _____

OWNER has considered your bid submitted for the above entitled project, or a portion thereof as detailed on any attachment to this notice. You are required to execute the Agreement and furnish any required Performance BOND, Payment BOND, and certificate of insurance within fifteen (15) calendar days from the date of this Notice. If you fail to execute said Agreement and to furnish said BONDS within fifteen (15) calendar days from the date of this Notice, **OWNER** will be entitled to consider all your rights arising out of the acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The **OWNER** will be entitled to such other rights as may be granted by law or described herein. **You are required to return an acknowledged copy of this NOTICE OF AWARD within five (5) calendar days to:**

Owner: Town of Nantucket, Nantucket Airport Commission

14 Airport Road, Unit 1 Nantucket Massachusetts 02254
Street Address City State Zip Code

(508) 325-5303
Telephone

By: _____

DATED the _____ day of _____, 20____.

Last Modified: 04/18/2025 at 12:56PM EDT

ACCEPTANCE OF NOTICE OF AWARD

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

NOTICE OF AWARD is hereby acknowledged and accepted.

By: _____
Authorized Signature Printed Name/Title

For: _____
Organization

DATED the _____ day of _____, 20____.

NOTICE TO PROCEED

REFUELING PAD WALL REPAIR

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.05

Issued to: Company Name _____
Company Address _____
Company City/State/Zip _____

Project Title _____

Advertisement Date _____ **Bid Opening Date** _____

PLEASE BE ADVISED that work may begin on the above Contract on _____, 20____
and shall be Substantial Completion of all work shall be completed within _____
calendar days of the date of this Notice To Proceed. The completion date is:
_____.

Owner's Representative: Dhruv Patel, McFarland Johnson

Telephone: (978) 692-0522 **Email:** dpatel@mjinc.com

You are required to return an acknowledged copy of this NOTICE TO PROCEED within five (5) calendar days of the date of this Notice to:

Owner: Town of Nantucket, Nantucket Memorial Airport

14 Airport Road, Unit 1 Nantucket Massachusetts 02254
Street Address City State Zip Code

(508) 325-5303
Telephone

By: _____
Printed Name/Title: Warren Smith, Airport Manager

DATED the _____ day of _____, 20____.

Last Modified: 04/18/2025 at 12:56PM EDT

ACCEPTANCE OF NOTICE TO PROCEED

NOTICE TO PROCEED

SOUTH APRON SOUND BARRIER

**NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS**

MJ# 19149.08

NOTICE TO PROCEED is hereby acknowledged and accepted.

By: _____
Authorized Signature Printed Name/Title

For: _____
Organization

DATED the _____ day of _____, 20____.

Last Modified: 04/18/2025 at 12:56PM EDT

CONTRACTOR'S GUARANTY

WHEREAS _____
(Contractor)

of _____
(Address)

hereinafter called **CONTRACTOR** has completed construction of the following project:

Owner: Town of Nantucket, Massachusetts, 14 Airport Road, Suite 1, Nantucket, MA 02554

Telephone: (508) 325-5303

Email: wsmith@nantucketairport.com

hereinafter called the **OWNER**.

Title of Project: **SOUTH APRON SOUND BARRIER**

**Nantucket Memorial Airport
Nantucket, Massachusetts**

Project Number(s): **MJ# 19149.08**

Location: _____
Nantucket Memorial Airport, Nantucket, Massachusetts

Date of Completion: _____

Date Guarantee Expires: _____

WHEREAS, at the inception of such work the **CONTRACTOR** agreed to guarantee the construction against faulty materials or workmanship for a limited period and subject to the conditions set forth:

NOW, THEREFORE, the **CONTRACTOR** hereby guarantees, subject to the conditions herein set forth, that during a period of one (1) year from the date of completion of said construction (four (4) years for LED light fixtures), they will, at their own cost and expense, following receipt of written notice, make or cause to be made such repairs to said construction resulting solely from faulty construction or defects in materials or workmanship applied by or through the **CONTRACTOR** as may be necessary to maintain the construction in defect-free condition.

This **CONTRACTOR GUARANTY** is made subject to the following conditions:

1. Specifically excluded from this guarantee is any and all damage caused by the following: lightning, windstorm greater than 110 mph, hailstorm or other acts of God; or fire. If the construction is damaged by reason of any of the foregoing, this guarantee shall thereupon become null and void for the balance of the guarantee period unless such damage is repaired by the **CONTRACTOR** at the expense of the party requesting such repairs.

2. This CONTRACTOR GUARANTY shall not be or become effective unless and until the **CONTRACTOR** has been paid in full for all their work.
3. This CONTRACTOR GUARANTY runs in favor of **OWNER** only and is not transferable.
4. Additional Conditions: This CONTRACTOR GUARANTY is in addition to all other legal and specified Warranties and Guaranties required on the Project's Contract Documents for materials, systems, and performance of the manufacturer or supplier.

In Witness Whereof, this instrument has been duly executed this
_____ day of _____, 20__.

(Company Name)

By: _____
(Authorized Signature)

(Seal)

Title: _____

NOTE: Form shall bear seal if Contractor is a Corporation.

SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) CERTIFICATION

PROJECT: **SOUTH APRON SOUND BARRIER**

LOCATION: **Nantucket Memorial Airport, Nantucket, Massachusetts**

- I. I hereby certify that I have reviewed the safety plans and fully understand the requirements set forth in the Construction Safety Phasing Plan (CSPP) as contained within the Contract Documents.

- II. I agree that prior to the issuance of the Notice to Proceed (NTP), I will provide as part of the Safety Plan Compliance Document (SPCD), a detailed plan as to how the CSPP will be complied with. The detail plan will included but not be limited to: specific equipment that will be utilized on site; construction equipment heights; contractor's points of contacts; work area plan (including a work sequencing plan); verification of material stock pile areas and heights; understanding of haul route restrictions; safety procedures; and other information as needed.

- III. I agree that I will follow the CSPP and approved SPCD and will not deviate from the plan without prior authorization from the Owner. I further acknowledge that requested revisions to the CSPP may require approval from the Federal Aviation Administration (FAA) and the review process requires at least 45 to 60 days. I further agree to reimburse the Owner for any and all costs resulting from a requested change or revision to the CSPP.

- IV. Check box if SPCD document is attached.

Date: _____

Signature of Authorized
Representative of Contractor

Printed Name of Authorized Rep.

Corporate Seal

Signature of Witness

NOTE: (Form to be executed and submitted with the Contract.)

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Submittal Number: _____

Revision Number: _____

CONTRACTOR SUBMITTAL FORM (CONTRACTOR)

Job Name: South Apron Sound Barrier

Airport: Nantucket Memorial Airport

AIP No. Not Applicable MJ Job No. 19149.08

Contractor: _____

Address: _____

Contractor's Contact: _____ Phone Number: _____

Reviewed By: _____ Date Submitted: _____

Check here if submittal is from a Subcontractor

Item No.: _____

Specification Section and Paragraph: _____

CERTIFICATION

I HEREBY CERTIFY that the attached submittal has been reviewed under the terms of the Contract Documents and is in conformity with the requirements of the Plans and Specifications unless specifically noted otherwise. It is understood that the Contractor is responsible for dimensions and quantities to be confirmed and correlated at the site, for information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction, and for coordination of the Work of all trades.

- 1- Submitted as specified
- 2 - Submitted "AS EQUAL" to the product specified
- 3 - Submitted "IN SUBSTITUTION" to the product specified
- 4 - Subcontractor submittal form included
- 5 - Other

Description of Submittal Components: _____

(For additional comments attach and number additional pages)

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Submittal Number: _____

Revision Number: _____

SUBCONTRACTOR SUBMITTAL FORM

Job Name: South Apron Sound Barrier

Airport: Nantucket Memorial Airport

AIP No. Not Applicable MJ Job No. 19149.08

Subcontractor: _____

Address: _____

Subcontractor's Contact: _____ Phone Number: _____

Reviewed By: _____ Date Submitted: _____

Check here if submittal is from a Subcontractor.

Item No.: _____

Specification Section and Paragraph: _____

CERTIFICATION

I HEREBY CERTIFY that the attached submittal has been reviewed under the terms of the Contract Documents and is in conformity with the requirements of the Plans and Specifications unless specifically noted otherwise. It is understood that the Contractor is responsible for dimensions and quantities to be confirmed and correlated at the site, for information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction, and for coordination of the Work of all trades.

- 1- Submitted as specified
- 2 - Submitted "AS EQUAL" to the product specified
- 3 - Submitted "IN SUBSTITUTION" to the product specified
- 4 - Subcontractor submittal form included
- 5 - Other

Description of Submittal Components: _____

(For additional comments attach and number additional pages)

Last Modified: 04/18/2025 at 12:56PM EDT

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WAIVER AND RELEASE OF MECHANIC’S LIENS AND CLAIMS

Project Name: South Apron Sound Barrier

Project No.: 19149.08

Project Address: Nantucket Memorial Airport
14 Airport Road, Nantucket, MA 02554

Owner Representative: Town of Nantucket

Through period Ending: _____

General Contractor: <Contractor Name>

Total Payments: _____

WHEREAS, the UNDERSIGNED has provided labor and/or materials and/or rental and/or services on the Project; and WHEREAS the UNDERSIGNED acknowledges receipt from OWNER of the amount set forth above as payments received to date and hereby remises, releases and forever discharges and by these presents does for itself and its successors, remise, release and forever discharge **Town of Nantucket, Massachusetts (Nantucket Airport Commission)** and **Nantucket Memorial Airport**, its successor, heirs, executors and administrators, of and from all, and all manner of action and actions, cause and causes of action, suits, debts, dues, sums of money accounts, reckoning, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgements, extents, executions, claims and demands whatsoever, in law, in admiralty, or in equity which against the said **Town of Nantucket, Massachusetts (Nantucket Airport Commission)** and **Nantucket Memorial Airport**, UNDERSIGNED ever had now has or which it or its successors, hereafter can, shall or may have for, upon or by reason of any matter, cause thing whatsoever from the beginning of the world to the date above, and especially in connection with any and all claims of any nature whatsoever arising out of the Project.

The UNDERSIGNED warrants that the amount of the payments received for the period indicated above represents the total value earned by the UNDERSIGNED for materials, labor rentals, equipment and services supplied to the project for the period, warrants that it has not and will not assign any claims for payment or right to perfect a lien against such land and improvements and appurtenances and warrants that it has the right to execute this waive and release.

The UNDERSIGNED, does hereby warrant and certify that it has made full payment of any amounts due or claimed to be due through the period ending stated above to any person or entity who has supplied materials or labor or rentals or services to it, pursuant to contract or otherwise, for the purpose of construction, raising, removing, repairing or otherwise improving the Project described above.

The UNDERSIGNED. does hereby, through the above date, forever waive, relinquish and release any mechanic’s, materialmen’s or like liens, and all claims or liens it now has may have or may obtain in the future upon a piece of land all the buildings thereon standing known as **Nantucket Memorial Airport** situated at **14 Airport Road, Nantucket, MA 02554**.

This release and waiver may not be changed orally.

Last Modified: 04/18/2025 at 12:56PM EDT

The UNDERSIGNED, agrees that the owner of the Project, any lender, any title insurer, and any surety may rely upon this waiver and release. WITNESS the signature and seal of the undersigned as of this _____ day of _____, 20____

STATE OF _____

Company Name: _____

COUNTY OF _____

Authorized Agent: _____

Signature: _____

Title: _____

Sworn to before me this _____
day of _____, 20____

Notary Public

Section 00 11 13
ADVERTISEMENT TO BID
MGL c.30 §39M Over \$50K

The **TOWN OF NANTUCKET**, the Awarding Authority, invites sealed bids from Contractors for the South Apron Sound Barrier - Nantucket Memorial Airport at South Apron in Nantucket, Massachusetts, in accordance with the documents prepared by **MCFARLAND JOHNSON**.

The Project consists of but not limited to:
This project consists of selective tree trimming, installation of drilled concrete shafts, installation of sound barrier structure, grading and restoration.

The work is estimated to cost **\$4,342,000.00**.

Bids are subject to M.G.L. c.30§39M and to minimum wage rates as required by M.G.L. c.149 §§26 to 27H inclusive.

THIS PROJECT IS BEING ELECTRONICALLY BID AND HARD COPY BIDS WILL NOT BE ACCEPTED. Please review the instructions in the bid documents on how to register as an electronic bidder. All Bids shall be submitted online at www.biddocs.com and received no later than the date and time specified.

General Bids will be received until **09 May 2025 at 2:00PM EDT** and publicly opened online, forthwith.

General bids and sub-bids shall be accompanied by a bid deposit that is not less than five (5%) of the greatest possible bid amount (including all alternates), and made payable to the **TOWN OF NANTUCKET**. Note: A bid deposit is not required for Projects advertised under \$50,000.

Bid Forms and Contract Documents will be available for review at www.biddocs.com (may be viewed and downloaded electronically at no cost).

PRE-BID CONFERENCE / SITE VISIT: Scheduled
Date and Time: 04/29/2025 at 1:00PM EDT
Address: 14 Airport Road, Nantucket, MA 02554
Instructions: Please let us know, by email, if your firm would like to attend the Pre-Bid either in-person or virtually. The deadline to notify for attendance at the Pre-Bid will be Friday, April 25, 2025, 5:00 PM EST.

PRE-BID CONFERENCE / SITE VISIT: By Appointment
Contact Name: Dhruv Patel
Contact Phone: 774-254-7475

Contact Email: dpatel@mjinc.com

Instructions: Please let us know, by email, if your firm would like to attend the Pre-Bid either in-person or virtually. The deadline to notify for attendance at the Pre-Bid will be Friday, April 25, 2025, 5:00 PM EST.

The hard copy Contract Documents may be seen at:

Nashoba Blue Inc.
433 Main Street
Hudson, MA 01749
978-568-1167

END OF SECTION

Section 00 21 13
INSTRUCTIONS TO BIDDERS
MGL c.30 §39M Over \$50K

THIS PROJECT IS BEING ELECTRONICALLY BID AND HARD COPY BIDS WILL NOT BE ACCEPTED. Please review the instructions in the bid documents on how to register as an electronic bidder. The bids are to be prepared and submitted at biddocs.com .

ARTICLE 1 - BIDDER'S REPRESENTATION

- 1.1 Each General Bidder or Sub-bidder (hereinafter called the "**Bidder**") by making a bid or sub-bid (hereinafter called "**bid**") represents that:
- .1 The Bidder has read and understands the Contract Documents and the bid is made in accordance therewith.
 - .2 The Bidder has visited the site and is familiar with the local conditions under which the Work must be performed.
- 1.2 Failure to so examine the Contract Documents and site will not relieve any Bidder from any obligation under the bid as submitted.

ARTICLE 2 - REQUESTS FOR INTERPRETATION

- 2.1 Bidders shall promptly notify the contact specified in the Advertisement via written request for information (RFI) of any ambiguity, inconsistency, or error which they may discover upon examination of the Contract Documents, the site, and local conditions.
- 2.2 Bidders requiring clarification or interpretation of the Contract Documents shall make a written request for information (RFI) as specified in the Advertisement. The Awarding Authority may answer such requests if received before the bid date and/or within the time specified in the Advertisement. The Awarding Authority has no obligation to respond to the written requests.
- 2.3 Interpretation, correction, or change in the Contract Documents will be made by written Addendum which will become part of the Contract Documents. Neither the Awarding Authority nor the Prime Designer will be held accountable for any oral interpretations, corrections, or changes.
- 2.4 Copies of addenda will be made available for inspection at the locations listed in the Advertisement where Contract Documents are on file or at biddocs.com. **Hard copies of the addenda will not be forwarded to the plan holders. The bidder is solely responsible for reviewing all addenda posted on the project website.**

ARTICLE 3 - PREPARATION AND SUBMISSION OF BIDS

3.1 Forms and Bid Preparation

Bids shall be submitted electronically on the "**Form for General Bid**" at biddocs.com, as appropriate and available at no cost.

The forms enclosed in the Project Manual shall not be extracted or used.

- .1 All bidders must create a User Profile account at biddocs.com, at no cost, to complete and submit a bid. The Awarding Authority, the Prime Designer or BidDocs ONLINE Inc. will not be held accountable if the bidder fails to create a User Profile in a timely manner.
- .2 All entries on the bid form shall be made online. Any documents that are attached to the bid must be in a pdf format.
- .3 Sums shall be expressed in both words and figures in the space indicated on the bid form. The electronic bid forms automatically match the "word" amount to the numeric "figure" amount entered.

3.1 Bid Deposits shall be:

- .1 at least five percent (5%) of the greatest possible bid amount, considering all alternates (except for projects bid under MGL c. 149 or MGL c. 3039M under \$50,000);
- .2 made payable to the **Awarding Authority**.
- .3 conditioned upon faithful performance by the principal of the agreements contained in the bid, and
- .4 in the form of:
 - .1 cash,
 - .2 certified check, treasurer's or cashier's check issued by a responsible bank or trust company, or
 - .3 bid bond issued by a surety company licensed to do business in the Commonwealth of Massachusetts.

Note: Both the "bid bond" or "check" bid deposits are to be scanned and uploaded to the system as a pdf file. **IMPORTANT NOTICE:** If the bidder elects to make a bid deposit in the form of "cash" or "check", the Bidder must have the cash or check physically delivered to the Awarding Authority prior to the date and time of the bid opening.

- .5 retained until the execution and delivery of the Awarding Authority / Contractor Agreement if they represent the bid deposit of one of the three (3) lowest responsible and eligible General Bidders or one of the three (3) lowest Sub-bidders in a filed sub-bid trade, or a sub-bidder listed by one of the three (3) lowest General Bidders.

3.3 Electronic Submission of General Bids

General Bids, including the bid deposit (if applicable), and required miscellaneous forms noted in the bid documents shall be submitted electronically online at

biddocs.com . No hard copy bids will be accepted.

The Bidder will receive an email and/or system notification confirming submission of the bid. Click on the email link to review and print the submitted bid documents. Keep the email as a **receipt** that the bid was submitted. **Note:** The Bidder may modify the bid at any time prior to the bid date and time advertised. The Bidder will receive a new email each time the Bidder re-submits the bid.

- .1 Date and time for receipt of bids is set forth in the Advertisement.
- .2 Timely submission of a bid online shall be the full responsibility of the Bidder.
Note: The project countdown clock on the website is the official clock that will determine when the bids are due.

3.4 Addenda

All modifications to the bid documents will be issued via an addendum. All registered plan holders will be electronically notified when addenda are issued. **Hard copies of the addenda will not be forwarded to the plan holders.** The Bidder is solely responsible for reviewing all addenda posted on the project website. The Bidder must acknowledge all addenda have been reviewed by selecting “yes” or “no” as part of the e-bidding process. If the Bidder selects “no”, the Bidder will automatically be directed to the Addenda icon on the project page.

ARTICLE 4 - ALTERNATES

- 4.1 Each General Bidder shall acknowledge Alternates in Section C on the Form for General Bid by entering the dollar amount of addition or subtraction necessitated by each Alternate.
- 4.2 In the event an Alternate does not involve a change in the amount of the base bid, the Bidder shall so indicate by entering "**0**" (**numeric figure**) in the “Add” space provided for that Alternate.
- 4.3 General Bidders shall enter on the Form for General Bid a single amount for each Alternate.
- 4.4 The low Bidder will be determined based on the sum of the base bid and the accepted alternates.
- 4.5 Alternates will be considered in numerical sequence as required by Chapter 149, Section 44G of the Massachusetts General Laws.

ARTICLE 5 - WITHDRAWAL OF BIDS

5.1 Before Opening of Bids

Any bid may be withdrawn (retracted) prior to the time designated for receipt of bids upon clicking the tab to "Retract Bid". The Bidder and the Awarding Authority will receive an email confirming that the bidder retracted the bid. Withdrawn bids may be modified and resubmitted up to the time designated for the receipt of bids.

5.2 After Opening of Bids

Bidders may withdraw a bid, without penalty, any time up to the time of Award as defined in paragraph 6.1, and upon demonstrating, to the satisfaction of the – Awarding Authority, that a bona fide clerical error was made during the preparation of the bid. Failure to conclusively demonstrate a bona fide clerical error may result in forfeiture of the bid deposit.

- 5.3 In the event of a general bid withdrawal after opening of bids, the Awarding Authority shall consider the bid from the next lowest eligible and responsible bidder.

ARTICLE 6 - CONTRACT AWARD

- 6.1 **Award** means both the determination and selection of the lowest, responsible, and eligible bidder, by the Awarding Authority.
- 6.2 The Awarding Authority will award the contract to the lowest responsible and eligible bidder within thirty days, Saturdays, Sundays, and legal holidays excluded after the opening of bids in accordance with M.G.L. c.149 §44A.
- 6.3 The Contract will be awarded to the lowest responsible and eligible Bidder, except in the event of substitution as provided under M.G.L. c.149 §§44E and 44F, in which cases the procedure as required by said sections shall govern the award of the Contract.
- 6.4 The award of this Contract is subject to the approval of the Awarding Authority. Contracts without approval shall not be considered valid.
- 6.5 The Awarding Authority reserves the right to waive any informalities in or to reject any or all Bids if it is in the public interest to do so.
- 6.6 As used herein, the term "lowest responsible and eligible bidder" shall mean the General Bidder whose bid is the lowest of those Bidders demonstrably possessing the skill, ability, and integrity necessary for the faithful performance of the work, and who meets the requirements for Bidders set forth in M.G.L. c.149 §44A-J and is not debarred from bidding under M.G.L. c.149 §44C; and who shall certify that they are able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work.

ARTICLE 7 - FORMS REQUIRED FOR CONTRACT APPROVAL

7.1 Upon Award, the General Bidder shall complete the following forms to ensure prompt contract validation. These forms will be provided to the selected General Bidder by the Awarding Authority.

7.2 **Awarding Authority / Contractor Agreement and Form of Corporate Vote.**

7.3 **Form of Contractor's Equal Employment Certification** in accordance with the General Conditions.

.1 Form of Sub-Contractor's Equal Employment Certification

7.4 **Form of Performance Bond and Form of Payment Bond** must be submitted by the General Contractor on the Awarding Authority's form, in accordance with the General Conditions. The dates on the bonds must coincide with the contract date, and a current Power-of-Attorney must be attached to each bond. The minimal performance and payment bonds are as follows.

BOND	MGL c. 149		MGL c. 3039M	
	\$25K to \$50K	\$50K to \$150K	\$25K to \$50K	Over \$50K
Performance	None	None	None	None
Payment	50%	50%	50%	50%

7.5 **Insurance Certificates** for the General Contractor is required and must be submitted in accordance with the General Conditions. General Contractors must indicate on Builder's Risk insurance or installation floater if stored materials are covered.

7.6 **Statement of Management on Internal Accounting Controls and a Statement prepared by a CPA** expressing an opinion to the state of Management Controls, as required by M.G.L. c.30 §39R. This applies to the General Contractor only.

ARTICLE 8 - CONTRACT VALIDATION

8.1 The Awarding Authority -Contractor Agreement shall not be valid until signed by the Authorized Signatory of the Awarding Authority.

8.2 The Notice to Proceed for construction shall not be issued until the Awarding Authority/Contractor Agreement has been validated by the Authorized Signatory of the Awarding Authority.

8.3 Incomplete or unacceptable submissions of forms required by paragraphs 7.2 - 7.6 will delay the validation of the Awarding Authority/Contractor Agreement by the Awarding Authority.

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END OF SECTION

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Section 00 41 00
FORM FOR GENERAL BID
MGL c.30 §39M Over \$50K

TO THE AWARDING AUTHORITY: Town of Nantucket

A. The Undersigned proposes to furnish all labor and materials required for **South Apron Sound Barrier - Nantucket Memorial Airport at South Apron** in Nantucket, Massachusetts, in accordance with the accompanying plans and specifications prepared by **McFarland Johnson** for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda numbered: _____

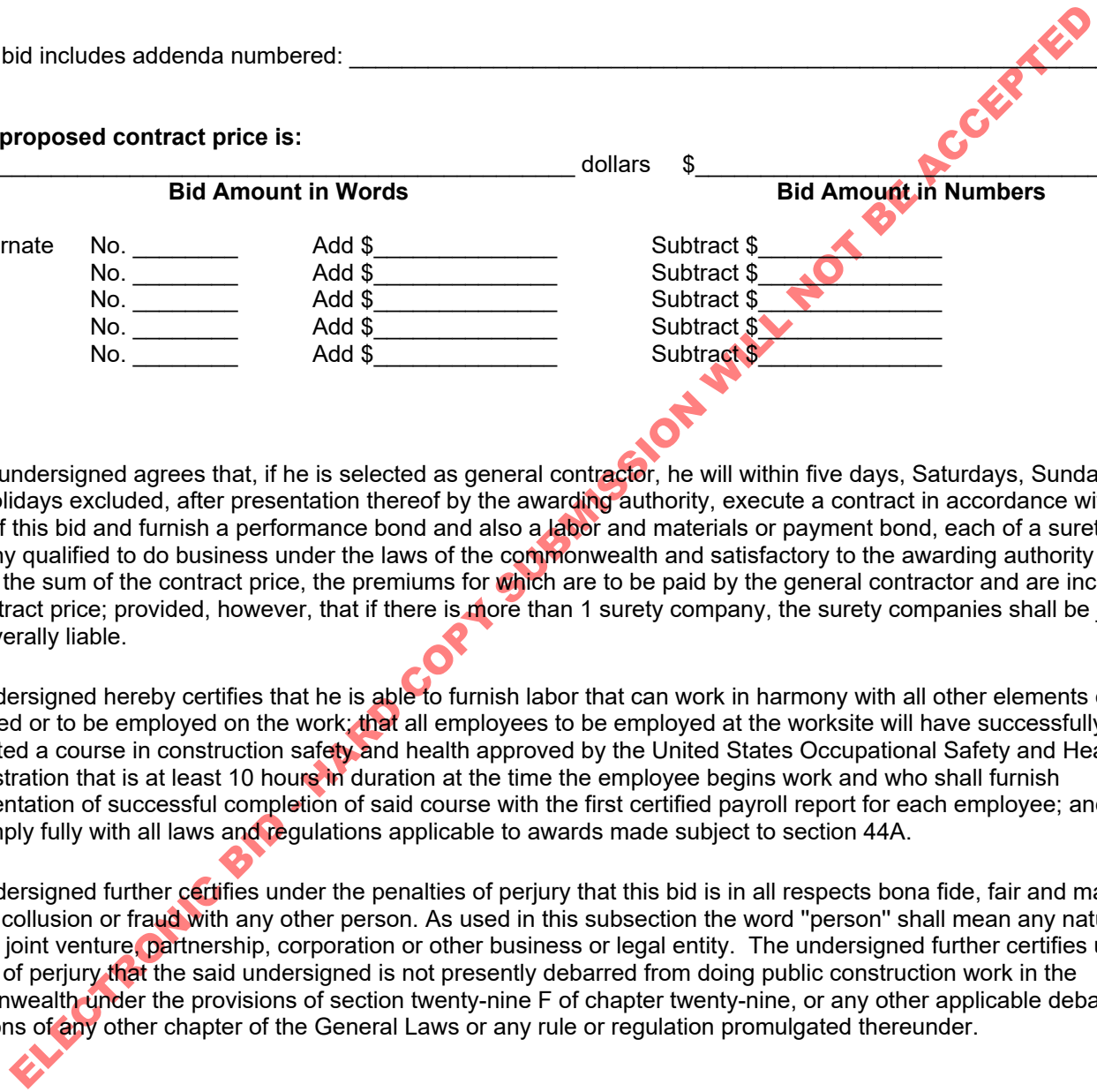
C. The proposed contract price is:

_____		dollars	\$	_____
Bid Amount in Words				Bid Amount in Numbers
For alternate	No. _____	Add \$	_____	Subtract \$ _____
	No. _____	Add \$	_____	Subtract \$ _____
	No. _____	Add \$	_____	Subtract \$ _____
	No. _____	Add \$	_____	Subtract \$ _____
	No. _____	Add \$	_____	Subtract \$ _____

D. The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price; provided, however, that if there is more than 1 surety company, the surety companies shall be jointly and severally liable.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A.

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.



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NAME OF BIDDER

SIGNATURE AND TITLE OF PERSON SIGNING BID

BUSINESS ADDRESS

Date: _____

ELECTRONIC BID - HARD COPY SUBMISSION WILL NOT BE ACCEPTED

BID BOND

CONTRACTOR:

Name: _____

Address: _____

SURETY:

Name: _____

Address: _____

AWARDING AUTHORITY:

Name: _____

Address: _____

BOND AMOUNT: _____

PROJECT: _____

The Contractor and Surety are bound to the Awarding Authority in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Awarding Authority accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Awarding Authority and Contractor, and the Contractor either (1) enters into a contract with the Awarding Authority in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise, acceptable to the Awarding Authority, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Awarding Authority may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Awarding Authority and Contractor to extend the time in which the Awarding Authority may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Awarding Authority and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory and not as a common law bond.

IN THE WITNESS WHEREOF,

the Principal and Surety signed and sealed this _____ day of _____, 20_____

(Witness) _____ (Contractor as Principal) (Seal)

(Title)

(Witness) _____ (Surety) (Seal)

(Title)

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SIMILAR PROJECTS - REFERENCE FORM

The bidder must provide five (5) similar projects performed & completed within the past five (5) years.

Similar Project 1	
Project Address: _____	
Start Date: _____	End Date: _____
Current Cost: _____	Original Cost: _____
Cost Change Explanation: _____	
Project Description: _____ _____ _____	
Awarding Authority Reference Contact	Prime Designer Reference Contact
_____ _____ _____	_____ _____ _____
Project Manager Reference Contact	General Contractor Reference Contact
_____ _____ _____	_____ _____ _____

Similar Project 2	
Project Address: _____	
Start Date: _____	End Date: _____
Current Cost: _____	Original Cost: _____
Cost Change Explanation: _____	
Project Description: _____ _____ _____	
Awarding Authority Reference Contact	Prime Designer Reference Contact
_____ _____ _____	_____ _____ _____
Project Manager Reference Contact	General Contractor Reference Contact
_____ _____ _____	_____ _____ _____

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SIMILAR PROJECTS - REFERENCE FORM

Similar Project 3

Project Address: _____

Start Date: _____ End Date: _____

Current Cost: _____ Original Cost: _____

Cost Change Explanation: _____

Project Description: _____

Awarding Authority Reference Contact Prime Designer Reference Contact

Project Manager Reference Contact General Contractor Reference Contact

Similar Project 4

Project Address: _____

Start Date: _____ End Date: _____

Current Cost: _____ Original Cost: _____

Cost Change Explanation: _____

Project Description: _____

Awarding Authority Reference Contact Prime Designer Reference Contact

Project Manager Reference Contact General Contractor Reference Contact

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SIMILAR PROJECTS - REFERENCE FORM

Similar Project 5	
Project Address: _____	
Start Date: _____	End Date: _____
Current Cost: _____	Original Cost: _____
Cost Change Explanation: _____	
Project Description: _____ _____ _____	
Awarding Authority Reference Contact	Prime Designer Reference Contact
_____ _____ _____	_____ _____ _____
Project Manager Reference Contact	General Contractor Reference Contact
_____ _____ _____	_____ _____ _____

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MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Nantucket Memorial Airport
Contract Number: **City/Town:** NANTUCKET
Description of Work: Installation of a Sound Barrier Wall (Approximately 1,300' x 23') adjacent to an Aircraft Parking Apron
Job Location: 14 Airport Road, Nantucket MA 02554

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F "rental of equipment" contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets from DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$39.95	\$15.57	\$20.17	\$0.00	\$75.69
	06/01/2025	\$40.95	\$15.57	\$20.17	\$0.00	\$76.69
	12/01/2025	\$40.95	\$15.57	\$21.78	\$0.00	\$78.30
	01/01/2026	\$40.95	\$16.17	\$21.78	\$0.00	\$78.90
	06/01/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$79.90
	12/01/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$81.64
	01/01/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.02	\$15.57	\$20.17	\$0.00	\$75.76
	06/01/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$76.76
	12/01/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$78.37
	01/01/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$78.97
	06/01/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$79.97
	12/01/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$81.71
	01/01/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.14	\$15.57	\$20.17	\$0.00	\$75.88
	06/01/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$76.88
	12/01/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$78.49
	01/01/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$79.09
	06/01/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$80.09
	12/01/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$81.83
	01/01/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	01/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
	12/01/2028	\$51.25	\$9.90	\$18.36	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	12/01/2024	\$42.80	\$14.50	\$11.05	\$0.00	\$68.35
	06/01/2025	\$43.80	\$14.50	\$11.05	\$0.00	\$69.35
	12/01/2025	\$44.80	\$14.50	\$11.05	\$0.00	\$70.35

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
	12/01/2028	\$51.25	\$9.90	\$18.36	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
2	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
3	70	\$33.68	\$7.07	\$14.23	\$0.00	\$54.98
4	75	\$36.09	\$7.07	\$15.24	\$0.00	\$58.40
5	80	\$38.50	\$7.07	\$16.25	\$0.00	\$61.82
6	85	\$40.90	\$7.07	\$17.28	\$0.00	\$65.25
7	90	\$43.31	\$7.07	\$18.28	\$0.00	\$68.66
8	95	\$45.71	\$7.07	\$19.32	\$0.00	\$72.10

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (NEW BEDFORD)</i>	02/01/2025	\$65.80	\$11.49	\$23.59	\$0.00	\$100.88
	08/01/2025	\$67.95	\$11.49	\$23.59	\$0.00	\$103.03
	02/01/2026	\$69.30	\$11.49	\$23.59	\$0.00	\$104.38
	08/01/2026	\$71.50	\$11.49	\$23.59	\$0.00	\$106.58
	02/01/2027	\$72.90	\$11.49	\$23.59	\$0.00	\$107.98

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 New Bedford

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.90	\$11.49	\$23.59	\$0.00	\$67.98
2	60	\$39.48	\$11.49	\$23.59	\$0.00	\$74.56
3	70	\$46.06	\$11.49	\$23.59	\$0.00	\$81.14
4	80	\$52.64	\$11.49	\$23.59	\$0.00	\$87.72
5	90	\$59.22	\$11.49	\$23.59	\$0.00	\$94.30

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.98	\$11.49	\$23.59	\$0.00	\$69.06
2	60	\$40.77	\$11.49	\$23.59	\$0.00	\$75.85
3	70	\$47.57	\$11.49	\$23.59	\$0.00	\$82.65
4	80	\$54.36	\$11.49	\$23.59	\$0.00	\$89.44
5	90	\$61.16	\$11.49	\$23.59	\$0.00	\$96.24

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2024	\$47.35	\$9.90	\$19.05	\$0.00	\$76.30
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.85	\$9.90	\$19.05	\$0.00	\$77.80
	12/01/2025	\$50.35	\$9.90	\$19.05	\$0.00	\$79.30
	06/01/2026	\$51.90	\$9.90	\$19.05	\$0.00	\$80.85
	12/01/2026	\$53.40	\$9.90	\$19.05	\$0.00	\$82.35

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER	12/01/2024	\$46.20	\$9.90	\$19.05	\$0.00	\$75.15
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$47.70	\$9.90	\$19.05	\$0.00	\$76.65
	12/01/2025	\$49.20	\$9.90	\$19.05	\$0.00	\$78.15
	06/01/2026	\$50.75	\$9.90	\$19.05	\$0.00	\$79.70
	12/01/2026	\$52.25	\$9.90	\$19.05	\$0.00	\$81.20

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING TOP MAN	12/01/2024	\$46.53	\$9.90	\$19.05	\$0.00	\$75.48
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.03	\$9.90	\$19.05	\$0.00	\$76.98
	12/01/2025	\$49.53	\$9.90	\$19.05	\$0.00	\$78.48
	06/01/2026	\$51.08	\$9.90	\$19.05	\$0.00	\$80.03
	12/01/2026	\$52.58	\$9.90	\$19.05	\$0.00	\$81.53

For apprentice rates see "Apprentice- LABORER"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

CARPENTER <i>CARPENTERS -ZONE 1 (Metro Boston)</i>	03/01/2025	\$60.46	\$9.83	\$19.97	\$0.00	\$90.26
	09/01/2025	\$61.96	\$9.83	\$19.97	\$0.00	\$91.76
	03/01/2026	\$63.46	\$9.83	\$19.97	\$0.00	\$93.26
	09/01/2026	\$64.96	\$9.83	\$19.97	\$0.00	\$94.76
	03/01/2027	\$66.46	\$9.83	\$19.97	\$0.00	\$96.26

Apprentice - CARPENTER - Zone 1 Metro Boston

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$27.21	\$9.83	\$1.73	\$0.00	\$38.77
2	45	\$27.21	\$9.83	\$1.73	\$0.00	\$38.77
3	55	\$33.25	\$9.83	\$3.40	\$0.00	\$46.48
4	55	\$33.25	\$9.83	\$3.40	\$0.00	\$46.48
5	70	\$42.32	\$9.83	\$16.51	\$0.00	\$68.66
6	70	\$42.32	\$9.83	\$16.51	\$0.00	\$68.66
7	80	\$48.37	\$9.83	\$18.24	\$0.00	\$76.44
8	80	\$48.37	\$9.83	\$18.24	\$0.00	\$76.44

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$27.88	\$9.83	\$1.73	\$0.00	\$39.44
2	45	\$27.88	\$9.83	\$1.73	\$0.00	\$39.44
3	55	\$34.08	\$9.83	\$3.40	\$0.00	\$47.31
4	55	\$34.08	\$9.83	\$3.40	\$0.00	\$47.31
5	70	\$43.37	\$9.83	\$16.51	\$0.00	\$69.71
6	70	\$43.37	\$9.83	\$16.51	\$0.00	\$69.71
7	80	\$49.57	\$9.83	\$18.24	\$0.00	\$77.64
8	80	\$49.57	\$9.83	\$18.24	\$0.00	\$77.64

Notes:

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	10/01/2024	\$26.65	\$7.02	\$4.80	\$0.00	\$38.47
	10/01/2025	\$27.75	\$7.02	\$4.80	\$0.00	\$39.57
	10/01/2026	\$28.85	\$7.02	\$4.80	\$0.00	\$40.67

Classification

All Aspects of New Wood Frame Work

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
2	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
3	65	\$17.32	\$7.02	\$1.00	\$0.00	\$25.34
4	70	\$18.66	\$7.02	\$1.00	\$0.00	\$26.68
5	75	\$19.99	\$7.02	\$4.80	\$0.00	\$31.81
6	80	\$21.32	\$7.02	\$4.80	\$0.00	\$33.14
7	85	\$22.65	\$7.02	\$4.80	\$0.00	\$34.47
8	90	\$23.99	\$7.02	\$4.80	\$0.00	\$35.81

Effective Date - 10/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
2	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
3	65	\$18.04	\$7.02	\$1.00	\$0.00	\$26.06
4	70	\$19.43	\$7.02	\$1.00	\$0.00	\$27.45
5	75	\$20.81	\$7.02	\$4.80	\$0.00	\$32.63
6	80	\$22.20	\$7.02	\$4.80	\$0.00	\$34.02
7	85	\$23.59	\$7.02	\$4.80	\$0.00	\$35.41
8	90	\$24.98	\$7.02	\$4.80	\$0.00	\$36.80

Notes:

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 (NEW BEDFORD)	07/01/2024	\$49.19	\$13.35	\$24.21	\$1.80	\$88.55
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.60	\$13.35	\$16.43	\$0.00	\$54.38
2	60	\$29.51	\$13.35	\$19.21	\$1.80	\$63.87
3	65	\$31.97	\$13.35	\$20.21	\$1.80	\$67.33
4	70	\$34.43	\$13.35	\$21.21	\$1.80	\$70.79
5	75	\$36.89	\$13.35	\$22.21	\$1.80	\$74.25
6	80	\$39.35	\$13.35	\$23.21	\$1.80	\$77.71
7	90	\$44.27	\$13.35	\$24.21	\$1.80	\$83.63

Notes:
Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$58.18	\$15.55	\$16.50	\$0.00	\$90.23
	06/01/2025	\$59.51	\$15.55	\$16.50	\$0.00	\$91.56
	12/01/2025	\$60.98	\$15.55	\$16.50	\$0.00	\$93.03
	06/01/2026	\$62.31	\$15.55	\$16.50	\$0.00	\$94.36
	12/01/2026	\$63.79	\$15.55	\$16.50	\$0.00	\$95.84

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN LABORERS - ZONE 2	12/02/2024	\$46.25	\$9.90	\$18.90	\$0.00	\$75.05
	06/02/2025	\$47.75	\$9.90	\$18.90	\$0.00	\$76.55
	12/01/2025	\$49.25	\$9.90	\$18.90	\$0.00	\$78.05
	06/01/2026	\$50.80	\$9.90	\$18.90	\$0.00	\$79.60
	12/07/2026	\$52.30	\$9.90	\$18.90	\$0.00	\$81.10
	06/07/2027	\$53.90	\$9.90	\$18.90	\$0.00	\$82.70
	12/06/2027	\$55.50	\$9.90	\$18.90	\$0.00	\$84.30
	06/05/2028	\$57.18	\$9.90	\$18.90	\$0.00	\$85.98
	12/04/2028	\$58.85	\$9.90	\$18.90	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 2	12/02/2024	\$47.25	\$9.90	\$18.90	\$0.00	\$76.05
	06/02/2025	\$48.75	\$9.90	\$18.90	\$0.00	\$77.55
	12/01/2025	\$50.25	\$9.90	\$18.90	\$0.00	\$79.05
	06/01/2026	\$51.80	\$9.90	\$18.90	\$0.00	\$80.60
	12/07/2026	\$53.30	\$9.90	\$18.90	\$0.00	\$82.10
	06/07/2027	\$54.90	\$9.90	\$18.90	\$0.00	\$83.70
	12/06/2027	\$56.50	\$9.90	\$18.90	\$0.00	\$85.30
	06/05/2028	\$58.18	\$9.90	\$18.90	\$0.00	\$86.98
	12/04/2028	\$59.85	\$9.90	\$18.90	\$0.00	\$88.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS LABORERS - ZONE 2	12/02/2024	\$47.00	\$9.90	\$18.90	\$0.00	\$75.80
	06/02/2025	\$48.50	\$9.90	\$18.90	\$0.00	\$77.30
	12/01/2025	\$50.00	\$9.90	\$18.90	\$0.00	\$78.80
	06/01/2026	\$51.55	\$9.90	\$18.90	\$0.00	\$80.35
	12/07/2026	\$53.05	\$9.90	\$18.90	\$0.00	\$81.85
	06/07/2027	\$54.65	\$9.90	\$18.90	\$0.00	\$83.45
	12/06/2027	\$56.25	\$9.90	\$18.90	\$0.00	\$85.05
	06/05/2028	\$57.93	\$9.90	\$18.90	\$0.00	\$86.73
	12/04/2028	\$59.60	\$9.90	\$18.90	\$0.00	\$88.40

Last Modified: 04/18/2025 at 12:56PM EDT

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 2	12/02/2024	\$47.25	\$9.90	\$18.90	\$0.00	\$76.05
	06/02/2025	\$48.75	\$9.90	\$18.90	\$0.00	\$77.55
	12/01/2025	\$50.25	\$9.90	\$18.90	\$0.00	\$79.05
	06/01/2026	\$51.80	\$9.90	\$18.90	\$0.00	\$80.60
	12/07/2026	\$53.30	\$9.90	\$18.90	\$0.00	\$82.10
	06/07/2027	\$54.90	\$9.90	\$18.90	\$0.00	\$83.70
	12/06/2027	\$56.50	\$9.90	\$18.90	\$0.00	\$85.30
	06/05/2028	\$58.18	\$9.90	\$18.90	\$0.00	\$86.98
	12/04/2028	\$59.85	\$9.90	\$18.90	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR LABORERS - ZONE 2	12/02/2024	\$47.00	\$9.90	\$18.90	\$0.00	\$75.80
	06/02/2025	\$48.50	\$9.90	\$18.90	\$0.00	\$77.30
	12/01/2025	\$50.00	\$9.90	\$18.90	\$0.00	\$78.80
	06/01/2026	\$51.55	\$9.90	\$18.90	\$0.00	\$80.35
	12/07/2026	\$53.05	\$9.90	\$18.90	\$0.00	\$81.85
	06/07/2027	\$54.65	\$9.90	\$18.90	\$0.00	\$83.45
	12/06/2027	\$56.25	\$9.90	\$18.90	\$0.00	\$85.05
	06/05/2028	\$57.93	\$9.90	\$18.90	\$0.00	\$86.73
	12/04/2028	\$59.60	\$9.90	\$18.90	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER LABORERS - ZONE 2	12/02/2024	\$46.25	\$9.90	\$18.90	\$0.00	\$75.05
	06/02/2025	\$47.75	\$9.90	\$18.90	\$0.00	\$76.55
	12/01/2025	\$49.25	\$9.90	\$18.90	\$0.00	\$78.05
	06/01/2026	\$50.80	\$9.90	\$18.90	\$0.00	\$79.60
	12/07/2026	\$52.30	\$9.90	\$18.90	\$0.00	\$81.10
	06/07/2027	\$53.90	\$9.90	\$18.90	\$0.00	\$82.70
	12/06/2027	\$55.50	\$9.90	\$18.90	\$0.00	\$84.30
	06/05/2028	\$57.18	\$9.90	\$18.90	\$0.00	\$85.98
	12/04/2028	\$58.85	\$9.90	\$18.90	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$78.11	\$10.08	\$21.66	\$0.00	\$109.85
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$83.69	\$10.08	\$24.29	\$0.00	\$118.06
For apprentice rates see "Apprentice- PILE DRIVER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

Apprentice - *ELECTRICIAN - Local 223*

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.01	\$12.00	\$0.60	\$0.00	\$32.61
2	45	\$22.51	\$12.00	\$0.68	\$0.00	\$35.19
3	50	\$25.01	\$12.00	\$0.75	\$0.00	\$37.76
4	55	\$27.51	\$12.00	\$0.85	\$0.00	\$40.36
5	60	\$30.01	\$12.00	\$0.95	\$0.00	\$42.96
6	65	\$32.51	\$12.00	\$1.05	\$0.00	\$45.56
7	70	\$35.01	\$12.00	\$1.15	\$0.00	\$48.16
8	75	\$37.52	\$12.00	\$1.25	\$0.00	\$50.77

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.90	\$12.25	\$0.63	\$0.00	\$33.78
2	45	\$23.51	\$12.25	\$0.71	\$0.00	\$36.47
3	50	\$26.13	\$12.25	\$0.78	\$0.00	\$39.16
4	55	\$28.74	\$12.25	\$0.86	\$0.00	\$41.85
5	60	\$31.35	\$12.25	\$0.94	\$0.00	\$44.54
6	65	\$33.96	\$12.25	\$1.02	\$0.00	\$47.23
7	70	\$36.58	\$12.25	\$1.10	\$0.00	\$49.93
8	75	\$39.19	\$12.25	\$1.18	\$0.00	\$52.62

Notes:

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86
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Last Modified: 04/18/2025 at 12:56PM EDT

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.81	\$16.03	\$0.00	\$0.00	\$48.84
2	55	\$36.09	\$16.03	\$20.21	\$0.00	\$72.33
3	65	\$42.65	\$16.03	\$20.21	\$0.00	\$78.89
4	70	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
5	80	\$52.50	\$16.03	\$20.21	\$0.00	\$88.74

Notes:
Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$51.78	\$15.30	\$16.40	\$0.00	\$83.48
	05/01/2025	\$53.22	\$15.30	\$16.40	\$0.00	\$84.92
	11/01/2025	\$54.51	\$15.30	\$16.40	\$0.00	\$86.21
	05/01/2026	\$55.95	\$15.30	\$16.40	\$0.00	\$87.65
	11/01/2026	\$57.24	\$15.30	\$16.40	\$0.00	\$88.94
	05/01/2027	\$58.67	\$15.30	\$16.40	\$0.00	\$90.37

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$53.37	\$15.30	\$16.40	\$0.00	\$85.07
	05/01/2025	\$54.82	\$15.30	\$16.40	\$0.00	\$86.52
	11/01/2025	\$56.12	\$15.30	\$16.40	\$0.00	\$87.82
	05/01/2026	\$57.57	\$15.30	\$16.40	\$0.00	\$89.27
	11/01/2026	\$58.87	\$15.30	\$16.40	\$0.00	\$90.57
	05/01/2027	\$60.32	\$15.30	\$16.40	\$0.00	\$92.02

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$25.37	\$15.30	\$16.40	\$0.00	\$57.07
	05/01/2025	\$26.22	\$15.30	\$16.40	\$0.00	\$57.92
	11/01/2025	\$26.98	\$15.30	\$16.40	\$0.00	\$58.68
	05/01/2026	\$27.83	\$15.30	\$16.40	\$0.00	\$59.53
	11/01/2026	\$28.59	\$15.30	\$16.40	\$0.00	\$60.29
	05/01/2027	\$29.44	\$15.30	\$16.40	\$0.00	\$61.14

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
<i>LOCAL 223</i>	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$45.96	\$15.55	\$16.50	\$0.00	\$78.01
	06/01/2025	\$47.02	\$15.55	\$16.50	\$0.00	\$79.07
	12/01/2025	\$48.19	\$15.55	\$16.50	\$0.00	\$80.24
	06/01/2026	\$49.25	\$15.55	\$16.50	\$0.00	\$81.30
	12/01/2026	\$50.43	\$15.55	\$16.50	\$0.00	\$82.48
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$27.01	\$9.90	\$18.46	\$0.00	\$55.37
	06/01/2025	\$28.09	\$9.90	\$18.46	\$0.00	\$56.45
	12/01/2025	\$28.09	\$9.90	\$18.46	\$0.00	\$56.45
	06/01/2026	\$29.21	\$9.90	\$18.46	\$0.00	\$57.57
	12/01/2026	\$29.21	\$9.90	\$18.46	\$0.00	\$57.57
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	03/01/2025	\$57.73	\$8.83	\$20.27	\$0.00	\$86.83
	09/01/2025	\$59.23	\$8.83	\$20.27	\$0.00	\$88.33
	03/01/2026	\$60.73	\$8.83	\$20.27	\$0.00	\$89.83
	09/01/2026	\$62.23	\$8.83	\$20.27	\$0.00	\$91.33
	03/01/2027	\$63.73	\$8.83	\$20.27	\$0.00	\$92.83

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone I

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
2	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
3	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
4	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
5	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
6	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
7	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52
8	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$26.65	\$8.83	\$1.76	\$0.00	\$37.24
2	45	\$26.65	\$8.83	\$1.76	\$0.00	\$37.24
3	55	\$32.58	\$8.83	\$3.52	\$0.00	\$44.93
4	55	\$32.58	\$8.83	\$3.52	\$0.00	\$44.93
5	70	\$41.46	\$8.83	\$16.75	\$0.00	\$67.04
6	70	\$41.46	\$8.83	\$16.75	\$0.00	\$67.04
7	80	\$47.38	\$8.83	\$18.51	\$0.00	\$74.72
8	80	\$47.38	\$8.83	\$18.51	\$0.00	\$74.72

Notes: Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$32.19
2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$34.64
3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$37.74
4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$40.19
5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$43.34
6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$45.78
7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$55.53
8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$57.98

Notes:

Apprentice to Journeyworker Ratio:1:3

HOISTING ENGINEER/CRANES/GRADALLS	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$31.37	\$0.00	\$0.00	\$0.00	\$31.37
2	60	\$34.22	\$15.55	\$16.50	\$0.00	\$66.27
3	65	\$37.07	\$15.55	\$16.50	\$0.00	\$69.12
4	70	\$39.92	\$15.55	\$16.50	\$0.00	\$71.97
5	75	\$42.77	\$15.55	\$16.50	\$0.00	\$74.82
6	80	\$45.62	\$15.55	\$16.50	\$0.00	\$77.67
7	85	\$48.48	\$15.55	\$16.50	\$0.00	\$80.53
8	90	\$51.33	\$15.55	\$16.50	\$0.00	\$83.38

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$32.08	\$0.00	\$0.00	\$0.00	\$32.08
2	60	\$35.00	\$15.55	\$16.50	\$0.00	\$67.05
3	65	\$37.91	\$15.55	\$16.50	\$0.00	\$69.96
4	70	\$40.83	\$15.55	\$16.50	\$0.00	\$72.88
5	75	\$43.75	\$15.55	\$16.50	\$0.00	\$75.80
6	80	\$46.66	\$15.55	\$16.50	\$0.00	\$78.71
7	85	\$49.58	\$15.55	\$16.50	\$0.00	\$81.63
8	90	\$52.50	\$15.55	\$16.50	\$0.00	\$84.55

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - B	10/01/2024	\$42.33	\$14.59	\$19.04	\$2.24	\$78.20
	04/01/2025	\$43.83	\$14.59	\$19.04	\$2.24	\$79.70
	10/01/2025	\$45.08	\$14.59	\$19.04	\$2.24	\$80.95
	04/01/2026	\$46.58	\$14.59	\$19.04	\$2.24	\$82.45

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 223	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - B	10/01/2024	\$42.33	\$30.43	\$19.04	\$2.24	\$94.04
	04/01/2025	\$43.83	\$30.43	\$19.04	\$2.24	\$95.54
	10/01/2025	\$45.08	\$30.43	\$19.04	\$2.24	\$96.79
	04/01/2026	\$46.58	\$30.43	\$19.04	\$2.24	\$98.29

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (TESTING AND BALANCING - WATER) PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	09/01/2024	\$51.23	\$14.75	\$19.61	\$0.00	\$85.59
	09/01/2025	\$54.31	\$14.75	\$19.61	\$0.00	\$88.67
	09/01/2026	\$57.38	\$14.75	\$19.61	\$0.00	\$91.74

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Southern MA

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.62	\$14.75	\$14.32	\$0.00	\$54.69
2	60	\$30.74	\$14.75	\$15.37	\$0.00	\$60.86
3	70	\$35.86	\$14.75	\$16.43	\$0.00	\$67.04
4	80	\$40.98	\$14.75	\$17.49	\$0.00	\$73.22

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.16	\$14.75	\$14.32	\$0.00	\$56.23
2	60	\$32.59	\$14.75	\$15.37	\$0.00	\$62.71
3	70	\$38.02	\$14.75	\$16.43	\$0.00	\$69.20
4	80	\$43.45	\$14.75	\$17.49	\$0.00	\$75.69

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2021	\$42.46	\$7.70	\$17.10	\$0.00	\$67.26
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 37

Effective Date - 03/16/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$29.72	\$7.70	\$17.10	\$0.00	\$54.52
2	75	\$31.85	\$7.70	\$17.10	\$0.00	\$56.65
3	80	\$33.97	\$7.70	\$17.10	\$0.00	\$58.77
4	85	\$36.09	\$7.70	\$17.10	\$0.00	\$60.89
5	90	\$38.21	\$7.70	\$17.10	\$0.00	\$63.01
6	95	\$40.34	\$7.70	\$17.10	\$0.00	\$65.14

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
<i>LABORERS - ZONE 2</i>	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

LABORER	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
<i>LABORERS - ZONE 2</i>	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.37	\$9.90	\$18.36	\$0.00	\$51.63
2	70	\$27.27	\$9.90	\$18.36	\$0.00	\$55.53
3	80	\$31.16	\$9.90	\$18.36	\$0.00	\$59.42
4	90	\$35.06	\$9.90	\$18.36	\$0.00	\$63.32

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.20	\$9.90	\$18.36	\$0.00	\$52.46
2	70	\$28.24	\$9.90	\$18.36	\$0.00	\$56.50
3	80	\$32.27	\$9.90	\$18.36	\$0.00	\$60.53
4	90	\$36.31	\$9.90	\$18.36	\$0.00	\$64.57

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2024	\$38.95	\$9.90	\$18.46	\$0.00	\$67.31
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$40.34	\$9.90	\$18.46	\$0.00	\$68.70
	12/01/2025	\$41.72	\$9.90	\$18.46	\$0.00	\$70.08
	06/01/2026	\$43.16	\$9.90	\$18.46	\$0.00	\$71.52
	12/01/2026	\$44.60	\$9.90	\$18.46	\$0.00	\$72.96

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.37	\$9.90	\$18.46	\$0.00	\$51.73
2	70	\$27.27	\$9.90	\$18.46	\$0.00	\$55.63
3	80	\$31.16	\$9.90	\$18.46	\$0.00	\$59.52
4	90	\$35.06	\$9.90	\$18.46	\$0.00	\$63.42

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.20	\$9.90	\$18.46	\$0.00	\$52.56
2	70	\$28.24	\$9.90	\$18.46	\$0.00	\$56.60
3	80	\$32.27	\$9.90	\$18.46	\$0.00	\$60.63
4	90	\$36.31	\$9.90	\$18.46	\$0.00	\$64.67

Notes:

Apprentice to Journeyworker Ratio:1:5

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	12/02/2024	\$39.04	\$9.90	\$18.42	\$0.00	\$67.36
	06/02/2025	\$40.43	\$9.90	\$18.42	\$0.00	\$68.75
	12/01/2025	\$41.81	\$9.90	\$18.42	\$0.00	\$70.13
	06/01/2026	\$43.25	\$9.90	\$18.42	\$0.00	\$71.57
	12/07/2026	\$44.69	\$9.90	\$18.42	\$0.00	\$73.01
	06/07/2027	\$46.14	\$9.90	\$18.42	\$0.00	\$74.46
	12/06/2027	\$47.59	\$9.90	\$18.42	\$0.00	\$75.91
	06/05/2028	\$49.09	\$9.90	\$18.42	\$0.00	\$77.41
	12/04/2028	\$50.59	\$9.90	\$18.42	\$0.00	\$78.91
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2025	\$50.36	\$11.49	\$21.62	\$0.00	\$83.47
	08/01/2025	\$52.08	\$11.49	\$21.62	\$0.00	\$85.19
	02/01/2026	\$53.16	\$11.49	\$21.62	\$0.00	\$86.27
	08/01/2026	\$54.92	\$11.49	\$21.62	\$0.00	\$88.03
	02/01/2027	\$56.04	\$11.49	\$21.62	\$0.00	\$89.15

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$11.49	\$21.62	\$0.00	\$58.29
2	60	\$30.22	\$11.49	\$21.62	\$0.00	\$63.33
3	70	\$35.25	\$11.49	\$21.62	\$0.00	\$68.36
4	80	\$40.29	\$11.49	\$21.62	\$0.00	\$73.40
5	90	\$45.32	\$11.49	\$21.62	\$0.00	\$78.43

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.04	\$11.49	\$21.62	\$0.00	\$59.15
2	60	\$31.25	\$11.49	\$21.62	\$0.00	\$64.36
3	70	\$36.46	\$11.49	\$21.62	\$0.00	\$69.57
4	80	\$41.66	\$11.49	\$21.62	\$0.00	\$74.77
5	90	\$46.87	\$11.49	\$21.62	\$0.00	\$79.98

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2025	\$65.82	\$11.49	\$23.56	\$0.00	\$100.87
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2025	\$67.97	\$11.49	\$23.56	\$0.00	\$103.02
	02/01/2026	\$69.32	\$11.49	\$23.56	\$0.00	\$104.37
	08/01/2026	\$71.52	\$11.49	\$23.56	\$0.00	\$106.57
	02/01/2027	\$72.92	\$11.49	\$23.56	\$0.00	\$107.97

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.91	\$11.49	\$23.56	\$0.00	\$67.96
2	60	\$39.49	\$11.49	\$23.56	\$0.00	\$74.54
3	70	\$46.07	\$11.49	\$23.56	\$0.00	\$81.12
4	80	\$52.66	\$11.49	\$23.56	\$0.00	\$87.71
5	90	\$59.24	\$11.49	\$23.56	\$0.00	\$94.29

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.99	\$11.49	\$23.56	\$0.00	\$69.04
2	60	\$40.78	\$11.49	\$23.56	\$0.00	\$75.83
3	70	\$47.58	\$11.49	\$23.56	\$0.00	\$82.63
4	80	\$54.38	\$11.49	\$23.56	\$0.00	\$89.43
5	90	\$61.17	\$11.49	\$23.56	\$0.00	\$96.22

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2)	01/06/2025	\$45.09	\$10.08	\$21.47	\$0.00	\$76.64
<i>MILLWRIGHTS LOCAL 1121 - Zone 2</i>	01/05/2026	\$47.42	\$10.08	\$21.47	\$0.00	\$78.97

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 01/06/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$24.80	\$10.08	\$5.50	\$0.00	\$40.38
2	65	\$29.31	\$10.08	\$6.50	\$0.00	\$45.89
3	75	\$33.82	\$10.08	\$18.97	\$0.00	\$62.87
4	85	\$38.33	\$10.08	\$19.97	\$0.00	\$68.38

Effective Date - 01/05/2026

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.08	\$10.08	\$5.50	\$0.00	\$41.66
2	65	\$30.82	\$10.08	\$6.50	\$0.00	\$47.40
3	75	\$35.57	\$10.08	\$18.97	\$0.00	\$64.62
4	85	\$40.31	\$10.08	\$19.97	\$0.00	\$70.36

Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66)
Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:4

MORTAR MIXER LABORERS - ZONE 2	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2024	\$25.37	\$15.30	\$16.40	\$0.00	\$57.07
	06/01/2025	\$25.97	\$15.30	\$16.40	\$0.00	\$57.67
	12/01/2025	\$26.63	\$15.30	\$16.40	\$0.00	\$58.33
	06/01/2026	\$27.22	\$15.30	\$16.40	\$0.00	\$58.92
	12/01/2026	\$27.89	\$15.30	\$16.40	\$0.00	\$59.59

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2024	\$31.08	\$15.30	\$16.40	\$0.00	\$62.78
	06/01/2025	\$31.80	\$15.30	\$16.40	\$0.00	\$63.50
	12/01/2025	\$32.60	\$15.30	\$16.40	\$0.00	\$64.30
	06/01/2026	\$33.32	\$15.30	\$16.40	\$0.00	\$65.02
	12/01/2026	\$34.12	\$15.30	\$16.40	\$0.00	\$65.82

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36
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Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2025	\$49.36	\$9.95	\$23.95	\$0.00	\$83.26
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* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used.*PAINTERS LOCAL 35 - ZONE 2*

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.68	\$9.95	\$0.00	\$0.00	\$34.63
2	55	\$27.15	\$9.95	\$6.66	\$0.00	\$43.76
3	60	\$29.62	\$9.95	\$7.26	\$0.00	\$46.83
4	65	\$32.08	\$9.95	\$7.87	\$0.00	\$49.90
5	70	\$34.55	\$9.95	\$20.32	\$0.00	\$64.82
6	75	\$37.02	\$9.95	\$20.93	\$0.00	\$67.90
7	80	\$39.49	\$9.95	\$21.53	\$0.00	\$70.97
8	90	\$44.42	\$9.95	\$22.74	\$0.00	\$77.11

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Painter (Spray or Sandblast, Repaint) <i>Painters Local 35 - Zone 2</i>	01/01/2025	\$47.42	\$9.95	\$23.95	\$0.00	\$81.32

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.71	\$9.95	\$0.00	\$0.00	\$33.66
2	55	\$26.08	\$9.95	\$6.66	\$0.00	\$42.69
3	60	\$28.45	\$9.95	\$7.26	\$0.00	\$45.66
4	65	\$30.82	\$9.95	\$7.87	\$0.00	\$48.64
5	70	\$33.19	\$9.95	\$20.32	\$0.00	\$63.46
6	75	\$35.57	\$9.95	\$20.93	\$0.00	\$66.45
7	80	\$37.94	\$9.95	\$21.53	\$0.00	\$69.42
8	90	\$42.68	\$9.95	\$22.74	\$0.00	\$75.37

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Painter / Taper (Brush, New) * <i>Painters Local 35 - Zone 2</i>	01/01/2025	\$47.96	\$9.95	\$23.95	\$0.00	\$81.86
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* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.*Painters Local 35 - Zone 2*

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.98	\$9.95	\$0.00	\$0.00	\$33.93
2	55	\$26.38	\$9.95	\$6.66	\$0.00	\$42.99
3	60	\$28.78	\$9.95	\$7.26	\$0.00	\$45.99
4	65	\$31.17	\$9.95	\$7.87	\$0.00	\$48.99
5	70	\$33.57	\$9.95	\$20.32	\$0.00	\$63.84
6	75	\$35.97	\$9.95	\$20.93	\$0.00	\$66.85
7	80	\$38.37	\$9.95	\$21.53	\$0.00	\$69.85
8	90	\$43.16	\$9.95	\$22.74	\$0.00	\$75.85

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Painter / Taper (Brush, Repaint) <i>Painters Local 35 - Zone 2</i>	01/01/2025	\$46.02	\$9.95	\$23.95	\$0.00	\$79.92
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.01	\$9.95	\$0.00	\$0.00	\$32.96
2	55	\$25.31	\$9.95	\$6.66	\$0.00	\$41.92
3	60	\$27.61	\$9.95	\$7.26	\$0.00	\$44.82
4	65	\$29.91	\$9.95	\$7.87	\$0.00	\$47.73
5	70	\$32.21	\$9.95	\$20.32	\$0.00	\$62.48
6	75	\$34.52	\$9.95	\$20.93	\$0.00	\$65.40
7	80	\$36.82	\$9.95	\$21.53	\$0.00	\$68.30
8	90	\$41.42	\$9.95	\$22.74	\$0.00	\$74.11

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	12/01/2024	\$38.95	\$9.90	\$18.46	\$0.00	\$67.31
<i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2025	\$40.34	\$9.90	\$18.46	\$0.00	\$68.70
	12/01/2025	\$41.72	\$9.90	\$18.46	\$0.00	\$70.08
	06/01/2026	\$43.16	\$9.90	\$18.46	\$0.00	\$71.52
	12/01/2026	\$44.60	\$9.90	\$18.46	\$0.00	\$72.96
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PANEL & PICKUP TRUCKS DRIVER	01/01/2025	\$39.78	\$15.57	\$20.17	\$0.00	\$75.52
<i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$76.52
	12/01/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$78.13
	01/01/2026	\$40.78	\$16.17	\$21.78	\$0.00	\$78.73
	06/01/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$79.73
	12/01/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$81.47
	01/01/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
<i>PILE DRIVER LOCAL 56 (ZONE 1)</i>						
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
<i>PILE DRIVER LOCAL 56 (ZONE 1)</i>						

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.11	\$10.08	\$2.53	\$0.00	\$37.72
2	55	\$30.68	\$10.08	\$5.07	\$0.00	\$45.83
3	70	\$39.05	\$10.08	\$19.22	\$0.00	\$68.35
4	80	\$44.63	\$10.08	\$21.76	\$0.00	\$76.47

Notes:
 % Indentured BEFORE 8/1/20; 50/60/70/75/80/80/90/90
 Apprenticeship to Journeyworker Ratio: 1:5
 Step 1 \$62.27/ 2 \$67.84/ 3 \$73.42/ 4 \$76.21/ 5&6 \$79.00/ 7&8 \$84.58

PIPELAYER LABORERS - ZONE 2	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

PLUMBER & PIPEFITTER PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PLUMBER/PIPEFITTER - Local 51

Effective Date - 08/26/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$21.00	\$10.15	\$2.50	\$0.00	\$33.65
2	50	\$26.25	\$10.15	\$2.50	\$0.00	\$38.90
3	60	\$31.49	\$10.15	\$8.90	\$0.00	\$50.54
4	70	\$36.74	\$10.15	\$14.24	\$0.00	\$61.13
5	80	\$41.99	\$10.15	\$17.80	\$0.00	\$69.94

Effective Date - 08/25/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$22.10	\$10.15	\$2.50	\$0.00	\$34.75
2	50	\$27.62	\$10.15	\$2.50	\$0.00	\$40.27
3	60	\$33.14	\$10.15	\$8.90	\$0.00	\$52.19
4	70	\$38.67	\$10.15	\$14.24	\$0.00	\$63.06
5	80	\$44.19	\$10.15	\$17.80	\$0.00	\$72.14

Notes:
Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

Apprentice to Journeyworker Ratio:1:3

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
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For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR LABORERS - ZONE 2	12/01/2024	\$39.70	\$9.90	\$17.54	\$0.00	\$67.14
	06/01/2025	\$41.09	\$9.90	\$17.54	\$0.00	\$68.53
	12/01/2025	\$42.47	\$9.90	\$17.54	\$0.00	\$69.91
	06/01/2026	\$43.91	\$9.90	\$17.54	\$0.00	\$71.35
	12/01/2026	\$45.35	\$9.90	\$17.54	\$0.00	\$72.79
	06/01/2027	\$46.80	\$9.90	\$17.54	\$0.00	\$74.24
	12/01/2027	\$48.25	\$9.90	\$17.54	\$0.00	\$75.69
	06/01/2028	\$49.75	\$9.90	\$17.54	\$0.00	\$77.19
	12/01/2028	\$51.25	\$9.90	\$17.54	\$0.00	\$78.69

For apprentice rates see "Apprentice- LABORER"

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.95	\$9.90	\$18.36	\$0.00	\$68.21
	06/01/2025	\$41.34	\$9.90	\$18.36	\$0.00	\$69.60
	12/01/2025	\$42.72	\$9.90	\$18.36	\$0.00	\$70.98
	06/01/2026	\$44.16	\$9.90	\$18.36	\$0.00	\$72.42
	12/01/2026	\$45.60	\$9.90	\$18.36	\$0.00	\$73.86
	06/01/2027	\$47.05	\$9.90	\$18.36	\$0.00	\$75.31
	12/01/2027	\$48.50	\$9.90	\$18.36	\$0.00	\$76.76
	06/01/2028	\$50.00	\$9.90	\$18.36	\$0.00	\$78.26
	12/01/2028	\$51.50	\$9.90	\$18.36	\$0.00	\$79.76
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.95	\$9.65	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.34	\$9.65	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.72	\$9.65	\$18.46	\$0.00	\$70.83
	06/01/2026	\$44.16	\$9.65	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.60	\$9.65	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 653 - Southeastern Concrete (Weymouth)</i>	08/01/2023	\$25.00	\$13.91	\$6.90	\$0.00	\$45.81
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Last Modified: 04/18/2025 at 12:56PM EDT

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						

ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 33</i>	02/01/2025	\$52.03	\$13.28	\$21.70	\$0.00	\$87.01
	08/01/2025	\$53.53	\$13.28	\$21.70	\$0.00	\$88.51
	02/01/2026	\$54.78	\$13.28	\$21.70	\$0.00	\$89.76

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.02	\$13.28	\$15.55	\$0.00	\$54.85
2	60	\$31.22	\$13.28	\$21.70	\$0.00	\$66.20
3	65	\$33.82	\$13.28	\$21.70	\$0.00	\$68.80
4	75	\$39.02	\$13.28	\$21.70	\$0.00	\$74.00
5	85	\$44.23	\$13.28	\$21.70	\$0.00	\$79.21

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.77	\$13.28	\$15.55	\$0.00	\$55.60
2	60	\$32.12	\$13.28	\$21.70	\$0.00	\$67.10
3	65	\$34.79	\$13.28	\$21.70	\$0.00	\$69.77
4	75	\$40.15	\$13.28	\$21.70	\$0.00	\$75.13
5	85	\$45.50	\$13.28	\$21.70	\$0.00	\$80.48

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 33</i>	02/01/2025	\$52.28	\$13.28	\$21.70	\$0.00	\$87.26
	08/01/2025	\$53.78	\$13.28	\$21.70	\$0.00	\$88.76
	02/01/2026	\$55.03	\$13.28	\$21.70	\$0.00	\$90.01
For apprentice rates see "Apprentice- ROOFER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 17 - B</i>	10/01/2024	\$42.33	\$14.59	\$19.04	\$2.24	\$78.20
	04/01/2025	\$43.83	\$14.59	\$19.04	\$2.24	\$79.70
	10/01/2025	\$45.08	\$14.59	\$19.04	\$2.24	\$80.95
	04/01/2026	\$46.58	\$14.59	\$19.04	\$2.24	\$82.45

Apprentice - SHEET METAL WORKER - Local 17-B

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.93	\$14.59	\$4.18	\$1.09	\$36.79
2	45	\$19.05	\$14.59	\$4.71	\$1.17	\$39.52
3	50	\$21.17	\$14.59	\$11.84	\$1.45	\$49.05
4	55	\$23.28	\$14.59	\$11.84	\$1.52	\$51.23
5	60	\$25.40	\$14.59	\$15.53	\$1.64	\$57.16
6	65	\$27.51	\$14.59	\$15.84	\$1.71	\$59.65
7	70	\$29.63	\$14.59	\$16.15	\$1.78	\$62.15
8	75	\$31.75	\$14.59	\$16.45	\$1.86	\$64.65
9	80	\$33.86	\$14.59	\$16.76	\$1.93	\$67.14
10	85	\$35.98	\$14.59	\$17.07	\$2.00	\$69.64

Effective Date - 04/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.53	\$14.59	\$4.18	\$1.09	\$37.39
2	45	\$19.72	\$14.59	\$4.71	\$1.17	\$40.19
3	50	\$21.92	\$14.59	\$11.84	\$1.45	\$49.80
4	55	\$24.11	\$14.59	\$11.84	\$1.52	\$52.06
5	60	\$26.30	\$14.59	\$15.53	\$1.64	\$58.06
6	65	\$28.49	\$14.59	\$15.84	\$1.71	\$60.63
7	70	\$30.68	\$14.59	\$16.15	\$1.78	\$63.20
8	75	\$32.87	\$14.59	\$16.45	\$1.86	\$65.77
9	80	\$35.06	\$14.59	\$16.76	\$1.93	\$68.34
10	85	\$37.26	\$14.59	\$17.07	\$2.00	\$70.92

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.53	\$15.57	\$20.17	\$0.00	\$76.27
	06/01/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$77.27
	12/01/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$78.88
	01/01/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$79.48
	06/01/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$80.48
	12/01/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$82.22
	01/01/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$82.82
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2</i>	03/01/2025	\$64.93	\$11.51	\$23.80	\$0.00	\$100.24

Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$22.73	\$11.51	\$13.07	\$0.00	\$47.31
2	40	\$25.97	\$11.51	\$13.90	\$0.00	\$51.38
3	45	\$29.22	\$11.51	\$14.72	\$0.00	\$55.45
4	50	\$32.47	\$11.51	\$15.55	\$0.00	\$59.53
5	55	\$35.71	\$11.51	\$16.38	\$0.00	\$63.60
6	60	\$38.96	\$11.51	\$17.20	\$0.00	\$67.67
7	65	\$42.20	\$11.51	\$18.03	\$0.00	\$71.74
8	70	\$45.45	\$11.51	\$18.85	\$0.00	\$75.81
9	75	\$48.70	\$11.51	\$19.68	\$0.00	\$79.89
10	80	\$51.94	\$11.51	\$20.50	\$0.00	\$83.95

Notes: Apprentice entered prior 9/30/10:
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$40.69	\$11.75	\$14.53	\$0.00	\$66.97
	09/01/2025	\$42.52	\$12.00	\$15.30	\$0.00	\$69.82
	09/01/2026	\$44.41	\$12.25	\$16.09	\$0.00	\$72.75
	09/01/2027	\$46.51	\$12.50	\$16.93	\$0.00	\$75.94

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: See Electrician Apprentice Wages
 Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages
Apprentice to Journeyworker Ratio:2:3***

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2025	\$64.74	\$11.49	\$23.59	\$0.00	\$99.82
	08/01/2025	\$66.89	\$11.49	\$23.59	\$0.00	\$101.97
	02/01/2026	\$68.24	\$11.49	\$23.59	\$0.00	\$103.32
	08/01/2026	\$70.44	\$11.49	\$23.59	\$0.00	\$105.52
	02/01/2027	\$71.84	\$11.49	\$23.59	\$0.00	\$106.92

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.37	\$11.49	\$23.59	\$0.00	\$67.45
2	60	\$38.84	\$11.49	\$23.59	\$0.00	\$73.92
3	70	\$45.32	\$11.49	\$23.59	\$0.00	\$80.40
4	80	\$51.79	\$11.49	\$23.59	\$0.00	\$86.87
5	90	\$58.27	\$11.49	\$23.59	\$0.00	\$93.35

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.45	\$11.49	\$23.59	\$0.00	\$68.53
2	60	\$40.13	\$11.49	\$23.59	\$0.00	\$75.21
3	70	\$46.82	\$11.49	\$23.59	\$0.00	\$81.90
4	80	\$53.51	\$11.49	\$23.59	\$0.00	\$88.59
5	90	\$60.20	\$11.49	\$23.59	\$0.00	\$95.28

Notes:
Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$50.20	\$9.90	\$19.05	\$0.00	\$79.15
	06/01/2025	\$51.70	\$9.90	\$19.05	\$0.00	\$80.65
	12/01/2025	\$53.20	\$9.90	\$19.05	\$0.00	\$82.15
	06/01/2026	\$54.75	\$9.90	\$19.05	\$0.00	\$83.70
	12/01/2026	\$56.25	\$9.90	\$19.05	\$0.00	\$85.20

For apprentice rates see "Apprentice- LABORER"

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.32	\$9.90	\$19.05	\$0.00	\$75.27
	06/01/2025	\$47.82	\$9.90	\$19.05	\$0.00	\$76.77
	12/01/2025	\$49.32	\$9.90	\$19.05	\$0.00	\$78.27
	06/01/2026	\$50.87	\$9.90	\$19.05	\$0.00	\$79.82
	12/01/2026	\$52.37	\$9.90	\$19.05	\$0.00	\$81.32
For apprentice rates see "Apprentice- LABORER"						
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.20	\$9.90	\$19.05	\$0.00	\$75.15
	06/01/2025	\$47.70	\$9.90	\$19.05	\$0.00	\$76.65
	12/01/2025	\$49.20	\$9.90	\$19.05	\$0.00	\$78.15
	06/01/2026	\$50.75	\$9.90	\$19.05	\$0.00	\$79.70
	12/01/2026	\$52.25	\$9.90	\$19.05	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.82	\$15.57	\$20.17	\$0.00	\$76.56
	06/01/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$77.56
	12/01/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$79.17
	01/01/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$79.77
	06/01/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$80.77
	12/01/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$82.51
	01/01/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$83.11
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$58.43	\$9.90	\$19.50	\$0.00	\$87.83
	06/01/2025	\$59.93	\$9.90	\$19.50	\$0.00	\$89.33
	12/01/2025	\$61.43	\$9.90	\$19.50	\$0.00	\$90.83
	06/01/2026	\$62.98	\$9.90	\$19.50	\$0.00	\$92.38
	12/01/2026	\$64.48	\$9.90	\$19.50	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$60.43	\$9.90	\$19.50	\$0.00	\$89.83
	06/01/2025	\$61.93	\$9.90	\$19.50	\$0.00	\$91.33
	12/01/2025	\$63.43	\$9.90	\$19.50	\$0.00	\$92.83
	06/01/2026	\$64.98	\$9.90	\$19.50	\$0.00	\$94.38
	12/01/2026	\$66.48	\$9.90	\$19.50	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$50.50	\$9.90	\$19.50	\$0.00	\$79.90
	06/01/2025	\$52.00	\$9.90	\$19.50	\$0.00	\$81.40
	12/01/2025	\$53.50	\$9.90	\$19.50	\$0.00	\$82.90
	06/01/2026	\$55.05	\$9.90	\$19.50	\$0.00	\$84.45
	12/01/2026	\$56.55	\$9.90	\$19.50	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$52.50	\$9.90	\$19.50	\$0.00	\$81.90
	06/01/2025	\$54.00	\$9.90	\$19.50	\$0.00	\$83.40
	12/01/2025	\$55.50	\$9.90	\$19.50	\$0.00	\$84.90
	06/01/2026	\$57.05	\$9.90	\$19.50	\$0.00	\$86.45
	12/01/2026	\$58.55	\$9.90	\$19.50	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

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Additional Apprentice Information:

All apprentices must be registered with the Division of Apprenticeship Training (DAS) in accordance with M.G.L. c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L. c. 149, §§ 26-27D. Apprentice ratios are established by DAS pursuant to M.G.L. c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements (CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate. Parties having questions regarding what ratio to use should contact DAS.

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DIVISION 1

PROJECT CONTRACT SPECIFICATIONS

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DIVISION 1 – PROJECT CONTRACT SPECIFICATIONS

**FAA GENERAL PROVISIONS
(Advisory Circular 150-5370-10H dated 12/21/2018)**

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DIVISION 1 - FAA GENERAL CONTRACT PROVISIONS

FAA GENERAL CONTRACT PROVISIONS
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DIVISION 1 - FAA GENERAL CONTRACT PROVISIONS

Section 10 Definition of Terms

When the following terms are used in these specifications, in the contract, or in any documents or other instruments pertaining to construction where these specifications govern, the intent and meaning shall be defined as follows:

Paragraph Number	Term	Definition
10-01	AASHTO	The American Association of State Highway and Transportation Officials.
10-02	Access Road	The right-of-way, the roadway and all improvements constructed thereon connecting the airport to a public roadway.
10-03	Advertisement	A public announcement, as required by local law, inviting bids for work to be performed and materials to be furnished.
10-04	Airport	Airport means an area of land or water which is used or intended to be used for the landing and takeoff of aircraft; an appurtenant area used or intended to be used for airport buildings or other airport facilities or rights of way; airport buildings and facilities located in any of these areas, and a heliport.
10-05	Airport Improvement Program (AIP)	A grant-in-aid program, administered by the Federal Aviation Administration (FAA).
10-06	Air Operations Area (AOA)	The term air operations area (AOA) shall mean any area of the airport used or intended to be used for the landing, takeoff, or surface maneuvering of aircraft. An air operation area shall include such paved or unpaved areas that are used or intended to be used for the unobstructed movement of aircraft in addition to its associated runway, taxiway, or apron.
10-07	Apron	Area where aircraft are parked, unloaded or loaded, fueled and/or serviced.
10-08	ASTM International (ASTM)	Formerly known as the American Society for Testing and Materials (ASTM).
10-09	Award	The Owner's notice to the successful bidder of the acceptance of the submitted bid.
10-10	Bidder	Any individual, partnership, firm, or corporation, acting directly or through a duly authorized representative, who submits a proposal for the work contemplated.
10-11	Building Area	An area on the airport to be used, considered, or intended to be used for airport buildings or other airport facilities or rights-of-way together with all airport buildings and facilities located thereon.
10-12	Calendar Day	Every day shown on the calendar.
10-13	Certificate of Analysis (COA)	The COA is the manufacturer's Certificate of Compliance (COC) including all applicable test results required by the specifications.

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Paragraph Number	Term	Definition
10-14	Certificate of Compliance (COC)	The manufacturer’s certification stating that materials or assemblies furnished fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer’s authorized representative.
10-15	Change Order	A written order to the Contractor covering changes in the plans, specifications, or proposal quantities and establishing the basis of payment and contract time adjustment, if any, for work within the scope of the contract and necessary to complete the project.
10-16	Contract	A written agreement between the Owner and the Contractor that establishes the obligations of the parties including but not limited to performance of work, furnishing of labor, equipment and materials and the basis of payment. The awarded contract includes but may not be limited to: Advertisement, Contract form, Proposal, Performance bond, payment bond, General provisions, certifications and representations, Technical Specifications, Plans, Supplemental Provisions, standards incorporated by reference and issued addenda.
10-17	Contract Item (Pay Item)	A specific unit of work for which a price is provided in the contract.
10-18	Contract Time	The number of calendar days or working days, stated in the proposal, allowed for completion of the contract, including authorized time extensions. If a calendar date of completion is stated in the proposal, in lieu of a number of calendar or working days, the contract shall be completed by that date.
10-19	Contractor	The individual, partnership, firm, or corporation primarily liable for the acceptable performance of the work contracted and for the payment of all legal debts pertaining to the work who acts directly or through lawful agents or employees to complete the contract work.
10-20	Contractors Quality Control (QC) Facilities	The Contractor’s QC facilities in accordance with the Contractor Quality Control Program (CQCP).
10-21	Contractor Quality Control Program (CQCP)	Details the methods and procedures that will be taken to assure that all materials and completed construction required by the contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors.
10-22	Control Strip	A demonstration by the Contractor that the materials, equipment, and construction processes results in a product meeting the requirements of the specification.

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Paragraph Number	Term	Definition
10-23	Construction Safety and Phasing Plan (CSPP)	The overall plan for safety and phasing of a construction project developed by the airport operator, or developed by the airport operator’s consultant and approved by the airport operator. It is included in the invitation for bids and becomes part of the project specifications.
10-24	Drainage System	The system of pipes, ditches, and structures by which surface or subsurface waters are collected and conducted from the airport area.
10-25	Engineer	The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for engineering, inspection, and/or observation of the contract work and acting directly or through an authorized representative.
10-26	Equipment	All machinery, together with the necessary supplies for upkeep and maintenance; and all tools and apparatus necessary for the proper construction and acceptable completion of the work.
10-27	Extra Work	An item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, but which is found by the Owner’s Engineer or Resident Project Representative (RPR) to be necessary to complete the work within the intended scope of the contract as previously modified.
10-28	FAA	The Federal Aviation Administration. When used to designate a person, FAA shall mean the Administrator or their duly authorized representative.
10-29	Federal Specifications	The federal specifications and standards, commercial item descriptions, and supplements, amendments, and indices prepared and issued by the General Services Administration.
10-30	Force Account	<p>a. Contract Force Account - A method of payment that addresses extra work performed by the Contractor on a time and material basis.</p> <p>b. Owner Force Account - Work performed for the project by the Owner's employees.</p>
10-31	Intention of Terms	<p>Whenever, in these specifications or on the plans, the words “directed,” “required,” “permitted,” “ordered,” “designated,” “prescribed,” or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation, or prescription of the Engineer and/or Resident Project Representative (RPR) is intended; and similarly, the words “approved,” “acceptable,” “satisfactory,” or words of like import, shall mean approved by, or acceptable to, or satisfactory to the Engineer and/or RPR, subject in each case to the final determination of the Owner.</p> <p>Any reference to a specific requirement of a numbered paragraph of the contract specifications or a cited standard</p>

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Paragraph Number	Term	Definition
		shall be interpreted to include all general requirements of the entire section, specification item, or cited standard that may be pertinent to such specific reference.
10-32	Lighting	A system of fixtures providing or controlling the light sources used on or near the airport or within the airport buildings. The field lighting includes all luminous signals, markers, floodlights, and illuminating devices used on or near the airport or to aid in the operation of aircraft landing at, taking off from, or taxiing on the airport surface.
10-33	Major and Minor Contract Items	A major contract item shall be any item that is listed in the proposal, the total cost of which is equal to or greater than 20% of the total amount of the award contract. All other items shall be considered minor contract items.
10-34	Materials	Any substance specified for use in the construction of the contract work.
10-35	Modification of Standards (MOS)	Any deviation from standard specifications applicable to material and construction methods in accordance with FAA Order 5300.1.
10-36	Notice to Proceed (NTP)	A written notice to the Contractor to begin the actual contract work on a previously agreed to date. If applicable, the Notice to Proceed shall state the date on which the contract time begins.
10-37	Owner	The term "Owner" shall mean the party of the first part or the contracting agency signatory to the contract. Where the term "Owner" is capitalized in this document, it shall mean airport Sponsor only. The Owner for this project is: Defined in the Invitation to Bid.
10-38	Passenger Facility Charge (PFC)	Per 14 Code of Federal Regulations (CFR) Part 158 and 49 United States Code (USC) § 40117, a PFC is a charge imposed by a public agency on passengers enplaned at a commercial service airport it controls.
10-39	Pavement Structure	The combined surface course, base course(s), and subbase course(s), if any, considered as a single unit.
10-40	Payment bond	The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will pay in full all bills and accounts for materials and labor used in the construction of the work.
10-41	Performance bond	The approved form of security furnished by the Contractor and their own surety as a guaranty that the Contractor will complete the work in accordance with the terms of the contract.
10-42	Plans	The official drawings or exact reproductions which show the location, character, dimensions and details of the airport and the work to be done and which are to be considered as a part of the contract, supplementary to the specifications. Plans may also be referred to as 'contract drawings.'

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Paragraph Number	Term	Definition
10-43	Project	The agreed scope of work for accomplishing specific airport development with respect to a particular airport.
10-44	Proposal	The written offer of the bidder (when submitted on the approved proposal form) to perform the contemplated work and furnish the necessary materials in accordance with the provisions of the plans and specifications.
10-45	Proposal guaranty	The security furnished with a proposal to guarantee that the bidder will enter into a contract if their own proposal is accepted by the Owner.
10-46	Quality Assurance (QA)	Owner's responsibility to assure that construction work completed complies with specifications for payment.
10-47	Quality Control (QC)	Contractor's responsibility to control material(s) and construction processes to complete construction in accordance with project specifications.
10-48	Quality Assurance (QA) Inspector	An authorized representative of the Engineer and/or Resident Project Representative (RPR) assigned to make all necessary inspections, observations, tests, and/or observation of tests of the work performed or being performed, or of the materials furnished or being furnished by the Contractor.
10-49	Quality Assurance (QA) Laboratory	The official quality assurance testing laboratories of the Owner or such other laboratories as may be designated by the Engineer or RPR. May also be referred to as Engineer's, Owner's, or QA Laboratory.
10-50	Resident Project Representative (RPR)	The individual, partnership, firm, or corporation duly authorized by the Owner to be responsible for all necessary inspections, observations, tests, and/or observations of tests of the contract work performed or being performed, or of the materials furnished or being furnished by the Contractor, and acting directly or through an authorized representative.
10-51	Runway	The area on the airport prepared for the landing and takeoff of aircraft.
10-52	Runway Safety Area (RSA)	A defined surface surrounding the runway prepared or suitable for reducing the risk of damage to aircraft. See the construction safety and phasing plan (CSPP) for limits of the RSA.
10-53	Safety Plan Compliance Document (SPCD)	Details how the Contractor will comply with the CSPP.
10-54	Specifications	A part of the contract containing the written directions and requirements for completing the contract work. Standards for specifying materials or testing which are cited in the contract specifications by reference shall have the same force and effect as if included in the contract physically.
10-55	Sponsor	A Sponsor is defined in 49 USC § 47102(24) as a public agency that submits to the FAA for an AIP grant; or a private Owner of a public-use airport that submits to the FAA an application for an AIP grant for the airport.

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Paragraph Number	Term	Definition
10-56	Structures	Airport facilities such as bridges; culverts; catch basins, inlets, retaining walls, cribbing; storm and sanitary sewer lines; water lines; underdrains; electrical ducts, manholes, handholes, lighting fixtures and bases; transformers; navigational aids; buildings; vaults; and, other manmade features of the airport that may be encountered in the work and not otherwise classified herein.
10-57	Subgrade	The soil that forms the pavement foundation.
10-58	Superintendent	The Contractor's executive representative who is present on the work during progress, authorized to receive and fulfill instructions from the RPR, and who shall supervise and direct the construction.
10-59	Supplemental Agreement	A written agreement between the Contractor and the Owner that establishes the basis of payment and contract time adjustment, if any, for the work affected by the supplemental agreement. A supplemental agreement is required if: (1) in scope work would increase or decrease the total amount of the awarded contract by more than 25%; (2) in scope work would increase or decrease the total of any major contract item by more than 25%; (3) work that is not within the scope of the originally awarded contract; or (4) adding or deleting of a major contract item.
10-60	Surety	The corporation, partnership, or individual, other than the Contractor, executing payment or performance bonds that are furnished to the Owner by the Contractor.
10-61	Taxilane	A taxiway designed for low speed movement of aircraft between aircraft parking areas and terminal areas.
10-62	Taxiway	The portion of the air operations area of an airport that has been designated by competent airport authority for movement of aircraft to and from the airport's runways, aircraft parking areas, and terminal areas.
10-63	Taxiway/Taxilane Safety Area (TSA)	A defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an aircraft. See the construction safety and phasing plan (CSPP) for limits of the TSA.
10-64	Work	The furnishing of all labor, materials, tools, equipment, and incidentals necessary or convenient to the Contractor's performance of all duties and obligations imposed by the contract, plans, and specifications.
10-65	Working day	A working day shall be any day other than a legal holiday, Saturday, or Sunday on which the normal working forces of the Contractor may proceed with regular work for at least six (6) hours toward completion of the contract. When work is suspended for causes beyond the Contractor's control, it will not be counted as a working day. Saturdays, Sundays and holidays on which the Contractor's forces engage in regular work will be considered as working days.

END OF SECTION 10

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Section 20 Proposal Requirements and Conditions

20-01 Advertisement (Notice to Bidders). See Advertisement for Bids and Instruction to Bidders of these specifications.

20-02 Qualification of bidders. Each bidder shall submit evidence of competency and evidence of financial responsibility to perform the work to the Owner at the time of bid opening.

Evidence of competency, unless otherwise specified, shall consist of statements covering the bidder's past experience on similar work, and a list of equipment and a list of key personnel that would be available for the work.

Each bidder shall furnish the Owner satisfactory evidence of their financial responsibility. Evidence of financial responsibility, unless otherwise specified, shall consist of a confidential statement or report of the bidder's financial resources and liabilities as of the last calendar year or the bidder's last fiscal year. Such statements or reports shall be certified by a public accountant. At the time of submitting such financial statements or reports, the bidder shall further certify whether their financial responsibility is approximately the same as stated or reported by the public accountant. If the bidder's financial responsibility has changed, the bidder shall qualify the public accountant's statement or report to reflect the bidder's true financial condition at the time such qualified statement or report is submitted to the Owner.

Unless otherwise specified, a bidder may submit evidence that they are prequalified with the State Highway Division and are on the current "bidder's list" of the state in which the proposed work is located. Evidence of State Highway Division prequalification may be submitted as evidence of financial responsibility in lieu of the certified statements or reports specified above.

Each bidder shall submit "evidence of competency" and "evidence of financial responsibility" to the Owner at the time of bid opening.

20-03 Contents of proposal forms. The Owner's proposal forms state the location and description of the proposed construction; the place, date, and time of opening of the proposals; and the estimated quantities of the various items of work to be performed and materials to be furnished for which unit bid prices are asked. The proposal form states the time in which the work must be completed, and the amount of the proposal guaranty that must accompany the proposal. The Owner will accept only those Proposals properly executed on physical forms or electronic forms provided by the Owner. Bidder actions that may cause the Owner to deem a proposal irregular are given in paragraph 20-09 *Irregular proposals*.

A prebid conference is required on this project to discuss as a minimum, the following items: material requirements; submittals; Quality Control/Quality Assurance requirements; the construction safety and phasing plan including airport access and staging areas; and unique airfield paving construction requirements. Refer to the Advertisement of Bids for the time, date, and place of the meeting.

20-04 Issuance of proposal forms. The Owner reserves the right to refuse to issue a proposal form to a prospective bidder if the bidder is in default for any of the following reasons:

- a. Failure to comply with any prequalification regulations of the Owner, if such regulations are cited, or otherwise included, in the proposal as a requirement for bidding.
- b. Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contracts in force with the Owner at the time the Owner issues the proposal to a prospective bidder.
- c. Documented record of Contractor default under previous contracts with the Owner.

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d. Documented record of unsatisfactory work on previous contracts with the Owner.

20-05 Interpretation of estimated proposal quantities. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly, or by implication, agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in the Section 40, paragraph 40-02, Alteration of Work and Quantities, without in any way invalidating the unit bid prices.

20-06 Examination of plans, specifications, and site. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. Bidders shall satisfy themselves to the character, quality, and quantities of work to be performed, materials to be furnished, and to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied to the conditions to be encountered in performing the work and the requirements of the proposed contract, plans, and specifications.

20-07 Preparation of proposal. The bidder shall submit their proposal on the forms furnished by the Owner. All blank spaces in the proposal forms, unless explicitly stated otherwise, must be correctly filled in where indicated for each and every item for which a quantity is given. The bidder shall state the price (written in ink or typed) both in words and numerals which they propose for each pay item furnished in the proposal. In case of conflict between words and numerals, the words, unless obviously incorrect, shall govern.

The bidder shall correctly sign the proposal in ink. If the proposal is made by an individual, their name and post office address must be shown. If made by a partnership, the name and post office address of each member of the partnership must be shown. If made by a corporation, the person signing the proposal shall give the name of the state where the corporation was chartered and the name, titles, and business address of the president, secretary, and the treasurer. Anyone signing a proposal as an agent shall file evidence of their authority to do so and that the signature is binding upon the firm or corporation.

20-08 Responsive and responsible bidder. A responsive bid conforms to all significant terms and conditions contained in the Owner's invitation for bid. It is the Owner's responsibility to decide if the exceptions taken by a bidder to the solicitation are material or not and the extent of deviation it is willing to accept.

A responsible bidder has the ability to perform successfully under the terms and conditions of a proposed procurement, as defined in 2 CFR § 200.318(h). This includes such matters as Contractor integrity, compliance with public policy, record of past performance, and financial and technical resources.

20-09 Irregular proposals. Proposals shall be considered irregular for the following reasons:

a. If the proposal is on a form other than that furnished by the Owner, or if the Owner's form is altered, or if any part of the proposal form is detached.

b. If there are unauthorized additions, conditional or alternate pay items, or irregularities of any kind that make the proposal incomplete, indefinite, or otherwise ambiguous.

c. If the proposal does not contain a unit price for each pay item listed in the proposal, except in the case of authorized alternate pay items, for which the bidder is not required to furnish a unit price.

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- d. If the proposal contains unit prices that are obviously unbalanced.
- e. If the proposal is not accompanied by the proposal guaranty specified by the Owner.
- f. If the applicable Disadvantaged Business Enterprise information is incomplete.

The Owner reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to local laws and ordinances pertaining to the letting of construction contracts.

20-10 Bid guarantee. Each separate proposal shall be accompanied by a bid bond, certified check, or other specified acceptable collateral, in the amount specified in the proposal form. Such bond, check, or collateral, shall be made payable to the Owner.

20-11 Delivery of proposal. Each proposal submitted shall be placed in a sealed envelope plainly marked with the project number, location of airport, and name and business address of the bidder on the outside. When sent by mail, preferably registered, the sealed proposal, marked as indicated above, should be enclosed in an additional envelope. No proposal will be considered unless received at the place specified in the advertisement or as modified by Addendum before the time specified for opening all bids. Proposals received after the bid opening time shall be returned to the bidder unopened.

20-12 Withdrawal or revision of proposals. A bidder may withdraw or revise (by withdrawal of one proposal and submission of another) a proposal provided that the bidder's request for withdrawal is received by the Owner in writing or by email before the time specified for opening bids. Revised proposals must be received at the place specified in the advertisement before the time specified for opening all bids.

20-13 Public opening of proposals. Proposals shall be opened, and read, publicly at the time and place specified in the advertisement. Bidders, their authorized agents, and other interested persons are invited to attend. Proposals that have been withdrawn (by written or telegraphic request) or received after the time specified for opening bids shall be returned to the bidder unopened.

20-14 Disqualification of bidders. A bidder shall be considered disqualified for any of the following reasons:

- a. Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
- b. Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner until any such participating bidder has been reinstated by the Owner as a qualified bidder.
- c. If the bidder is considered to be in "default" for any reason specified in paragraph 20-04, *Issuance of Proposal Forms*, of this section.

20-15 Discrepancies and Omissions. A Bidder who discovers discrepancies or omissions with the project bid documents shall immediately notify the Owner's Engineer of the matter. A bidder that has doubt as to the true meaning of a project requirement may submit to the Owner's Engineer a written request for interpretation no later than the number of days outlined in the Advertisement of Bids prior to bid opening.

Any interpretation of the project bid documents by the Owner's Engineer will be by written addendum issued by the Owner. The Owner will not consider any instructions, clarifications or interpretations of the bidding documents in any manner other than written addendum.

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END OF SECTION 20

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Section 30 Award and Execution of Contract

30-01 Consideration of proposals. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. If a bidder's proposal contains a discrepancy between unit bid prices written in words and unit bid prices written in numbers, the unit bid price written in words shall govern. Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

a. If the proposal is irregular as specified in Section 20, paragraph 20-09, *Irregular Proposals*.

b. If the bidder is disqualified for any of the reasons specified Section 20, paragraph 20-14, *Disqualification of Bidders*.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals, waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable state and local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise. All such actions shall promote the Owner's best interests.

30-02 Award of contract. The award of a contract, if it is to be awarded, shall be made within **One Hundred Eighty (180) calendar days** of the date specified for publicly opening proposals, unless otherwise specified herein.

If the Owner elects to proceed with an award of contract, the Owner will make award to the responsible bidder whose bid, conforming with all the material terms and conditions of the bid documents, is the lowest in price.

30-03 Cancellation of award. The Owner reserves the right to cancel the award without liability to the bidder, except return of proposal guaranty, at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with paragraph 30-07 *Approval of Contract*.

30-04 Return of proposal guaranty. All proposal guaranties, except those of the two lowest bidders, will be returned immediately after the Owner has made a comparison of bids as specified in the paragraph 30-01, *Consideration of Proposals*. Proposal guaranties of the two lowest bidders will be retained by the Owner until such time as an award is made, at which time, the unsuccessful bidder's proposal guaranty will be returned. The successful bidder's proposal guaranty will be returned as soon as the Owner receives the contract bonds as specified in paragraph 30-05, *Requirements of Contract Bonds*.

30-05 Requirements of contract bonds. At the time of the execution of the contract, the successful bidder shall furnish the Owner a surety bond or bonds that have been fully executed by the bidder and the surety guaranteeing the performance of the work and the payment of all legal debts that may be incurred by reason of the Contractor's performance of the work. The surety and the form of the bond or bonds shall be acceptable to the Owner. Unless otherwise specified in this subsection, the surety bond or bonds shall be in a sum equal to the full amount of the contract.

30-06 Execution of contract. The successful bidder shall sign (execute) the necessary agreements for entering into the contract and return the signed contract to the Owner, along with the fully executed surety bond or bonds specified in paragraph 30-05, *Requirements of Contract Bonds*, of this section, within **fifteen (15) calendar days** from the date mailed or otherwise delivered to the successful bidder.

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30-07 Approval of contract. Upon receipt of the contract and contract bond or bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance with local laws or ordinances, and return the fully executed contract to the Contractor. Delivery of the fully executed contract to the Contractor shall constitute the Owner's approval to be bound by the successful bidder's proposal and the terms of the contract.

30-08 Failure to execute contract. Failure of the successful bidder to execute the contract and furnish an acceptable surety bond or bonds within the period specified in paragraph 30-06, *Execution of Contract*, of this section shall be just cause for cancellation of the award and forfeiture of the proposal guaranty, not as a penalty, but as liquidated damages to the Owner.

END OF SECTION 30

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Section 40 Scope of Work

40-01 Intent of contract. The intent of the contract is to provide for construction and completion, in every detail, of the work described. It is further intended that the Contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work in accordance with the plans, specifications, and terms of the contract.

40-02 Alteration of work and quantities. The Owner reserves the right to make such changes in quantities and work as may be necessary or desirable to complete, in a satisfactory manner, the original intended work. Unless otherwise specified in the Contract, the Owner's Engineer or RPR shall be and is hereby authorized to make, in writing, such in-scope alterations in the work and variation of quantities as may be necessary to complete the work, provided such action does not represent a significant change in the character of the work.

For purpose of this section, a significant change in character of work means: any change that is outside the current contract scope of work; any change (increase or decrease) in the total contract cost by more than 25%; or any change in the total cost of a major contract item by more than 25%.

Work alterations and quantity variances that do not meet the definition of significant change in character of work shall not invalidate the contract nor release the surety. Contractor agrees to accept payment for such work alterations and quantity variances in accordance with Section 90, paragraph 90-03, *Compensation for Altered Quantities*.

Should the value of altered work or quantity variance meet the criteria for significant change in character of work, such altered work and quantity variance shall be covered by a supplemental agreement. Supplemental agreements shall also require consent of the Contractor's surety and separate performance and payment bonds. If the Owner and the Contractor are unable to agree on a unit adjustment for any contract item that requires a supplemental agreement, the Owner reserves the right to terminate the contract with respect to the item and make other arrangements for its completion.

Supplemental agreements shall be approved by the FAA and shall include all applicable Federal contract provisions for procurement and contracting required under AIP. Supplemental agreements shall also require consent of the Contractor's surety and separate performance and payment bonds.

40-03 Omitted items. The Owner, the Owner's Engineer or the RPR may provide written notice to the Contractor to omit from the work any contract item that does not meet the definition of major contract item. Major contract items may be omitted by a supplemental agreement. Such omission of contract items shall not invalidate any other contract provision or requirement.

Should a contract item be omitted or otherwise ordered to be non-performed, the Contractor shall be paid for all work performed toward completion of such item prior to the date of the order to omit such item. Payment for work performed shall be in accordance with Section 90, paragraph 90-04, *Payment for Omitted Items*.

40-04 Extra work. Should acceptable completion of the contract require the Contractor to perform an item of work not provided for in the awarded contract as previously modified by change order or supplemental agreement, Owner may issue a Change Order to cover the necessary extra work. Change orders for extra work shall contain agreed unit prices for performing the change order work in accordance with the requirements specified in the order, and shall contain any adjustment to the contract time that, in the RPR's opinion, is necessary for completion of the extra work.

When determined by the RPR to be in the Owner's best interest, the RPR may order the Contractor to proceed with extra work as provided in Section 90, paragraph 90-05, *Payment for Extra Work*. Extra work

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that is necessary for acceptable completion of the project, but is not within the general scope of the work covered by the original contract shall be covered by a supplemental agreement as defined in Section 10, paragraph 10-59, *Supplemental Agreement*.

If extra work is essential to maintaining the project critical path, RPR may order the Contractor to commence the extra work under a Time and Material contract method. Once sufficient detail is available to establish the level of effort necessary for the extra work, the Owner shall initiate a change order or supplemental agreement to cover the extra work.

Any claim for payment of extra work that is not covered by written agreement (change order or supplemental agreement) shall be rejected by the Owner.

All change orders, supplemental agreements, and contract modifications must be reviewed by the FAA.

40-05 Maintenance of traffic. It is the explicit intention of the contract that the safety of aircraft, as well as the Contractor's equipment and personnel, is the most important consideration. The Contractor shall maintain traffic in the manner detailed in the Construction Safety and Phasing Plan (CSPP).

a. It is understood and agreed that the Contractor shall provide for the free and unobstructed movement of aircraft in the air operations areas (AOAs) of the airport with respect to their own operations and the operations of all subcontractors as specified in Section 80, paragraph 80-04, *Limitation of Operations*. It is further understood and agreed that the Contractor shall provide for the uninterrupted operation of visual and electronic signals (including power supplies thereto) used in the guidance of aircraft while operating to, from, and upon the airport as specified in Section 70, paragraph 70-15, *Contractor's Responsibility for Utility Service and Facilities of Others*.

b. With respect to their own operations and the operations of all subcontractors, the Contractor shall provide marking, lighting, and other acceptable means of identifying personnel, equipment, vehicles, storage areas, and any work area or condition that may be hazardous to the operation of aircraft, fire-rescue equipment, or maintenance vehicles at the airport in accordance with the construction safety and phasing plan (CSPP) and the safety plan compliance document (SPCD). The Contractor shall also refer to AC 150/5210-5 (latest revision), *Painting, Marking and Lighting of Vehicles Used on an Airport* and AC 150/5370-2 (latest revision), *Operational Safety on Airports During Construction* for applicable standards.

c. When the contract requires the maintenance of an existing road, street, or highway during the Contractor's performance of work that is otherwise provided for in the contract, plans, and specifications, the Contractor shall keep the road, street, or highway open to all traffic and shall provide maintenance as may be required to accommodate traffic. The Contractor, at their expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel. The Contractor shall furnish, erect, and maintain barricades, warning signs, flag person, and other traffic control devices in reasonable conformity with the Manual on Uniform Traffic Control Devices (MUTCD) (<http://mutcd.fhwa.dot.gov/>), unless otherwise specified. The Contractor shall also construct and maintain in a safe condition any temporary connections necessary for ingress to and egress from abutting property or intersecting roads, streets or highways. Unless otherwise specified herein, the Contractor will not be required to furnish snow removal for such existing road, street, or highway.

40-06 Removal of existing structures. All existing structures encountered within the established lines, grades, or grading sections shall be removed by the Contractor, unless such existing structures are otherwise specified to be relocated, adjusted up or down, salvaged, abandoned in place, reused in the work or to remain in place. The cost of removing such existing structures shall not be measured or paid for directly, but shall be included in the various contract items.

Should the Contractor encounter an existing structure (above or below ground) in the work for which the disposition is not indicated on the plans, the Resident Project Representative (RPR) shall be notified prior

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to disturbing such structure. The disposition of existing structures so encountered shall be immediately determined by the RPR in accordance with the provisions of the contract.

Except as provided in Section 40, paragraph 40-07, *Rights in and Use of Materials Found in the Work*, it is intended that all existing materials or structures that may be encountered (within the lines, grades, or grading sections established for completion of the work) shall be used in the work as otherwise provided for in the contract and shall remain the property of the Owner when so used in the work.

40-07 Rights in and use of materials found in the work. Should the Contractor encounter any material such as (but not restricted to) sand, stone, gravel, slag, or concrete slabs within the established lines, grades, or grading sections, the use of which is intended by the terms of the contract to be embankment, the Contractor may at their own option either:

- a. Use such material in another contract item, providing such use is approved by the RPR and is in conformance with the contract specifications applicable to such use; or,
- b. Remove such material from the site, upon written approval of the RPR; or
- c. Use such material for the Contractor's own temporary construction on site; or,
- d. Use such material as intended by the terms of the contract.

Should the Contractor wish to exercise option a., b., or c., the Contractor shall request the RPR's approval in advance of such use.

Should the RPR approve the Contractor's request to exercise option a., b., or c., the Contractor shall be paid for the excavation or removal of such material at the applicable contract price. The Contractor shall replace, at their expense, such removed or excavated material with an agreed equal volume of material that is acceptable for use in constructing embankment, backfills, or otherwise to the extent that such replacement material is needed to complete the contract work. The Contractor shall not be charged for use of such material used in the work or removed from the site.

Should the RPR approve the Contractor's exercise of option a., the Contractor shall be paid, at the applicable contract price, for furnishing and installing such material in accordance with requirements of the contract item in which the material is used.

It is understood and agreed that the Contractor shall make no claim for delays by reason of their own exercise of option a., b., or c.

The Contractor shall not excavate, remove, or otherwise disturb any material, structure, or part of a structure which is located outside the lines, grades, or grading sections established for the work, except where such excavation or removal is provided for in the contract, plans, or specifications.

40-08 Final cleanup. Upon completion of the work and before acceptance and final payment will be made, the Contractor shall remove from the site all machinery, equipment, surplus and discarded materials, rubbish, temporary structures, and stumps or portions of trees. The Contractor shall cut all brush and woods within the limits indicated and shall leave the site in a neat and presentable condition. Material cleared from the site and deposited on adjacent property will not be considered as having been disposed of satisfactorily, unless the Contractor has obtained the written permission of the property Owner.

END OF SECTION 40

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Section 50 Control of Work

50-01 Authority of the Resident Project Representative (RPR). The RPR has final authority regarding the interpretation of project specification requirements. The RPR shall determine acceptability of the quality of materials furnished, method of performance of work performed, and the manner and rate of performance of the work. The RPR does not have the authority to accept work that does not conform to specification requirements.

50-02 Conformity with plans and specifications. All work and all materials furnished shall be in reasonably close conformity with the lines, grades, grading sections, cross-sections, dimensions, material requirements, and testing requirements that are specified (including specified tolerances) in the contract, plans, or specifications.

If the RPR finds the materials furnished, work performed, or the finished product not within reasonably close conformity with the plans and specifications, but that the portion of the work affected will, in their opinion, result in a finished product having a level of safety, economy, durability, and workmanship acceptable to the Owner, the RPR will advise the Owner of their determination that the affected work be accepted and remain in place. The RPR will document the determination and recommend to the Owner a basis of acceptance that will provide for an adjustment in the contract price for the affected portion of the work. Changes in the contract price must be covered by contract change order or supplemental agreement as applicable.

If the RPR finds the materials furnished, work performed, or the finished product are not in reasonably close conformity with the plans and specifications and have resulted in an unacceptable finished product, the affected work or materials shall be removed and replaced or otherwise corrected by and at the expense of the Contractor in accordance with the RPR's written orders.

The term "reasonably close conformity" shall not be construed as waiving the Contractor's responsibility to complete the work in accordance with the contract, plans, and specifications. The term shall not be construed as waiving the RPR's responsibility to insist on strict compliance with the requirements of the contract, plans, and specifications during the Contractor's execution of the work, when, in the RPR's opinion, such compliance is essential to provide an acceptable finished portion of the work.

The term "reasonably close conformity" is also intended to provide the RPR with the authority, after consultation with the Sponsor and FAA, to use sound engineering judgment in their determinations to accept work that is not in strict conformity, but will provide a finished product equal to or better than that required by the requirements of the contract, plans and specifications.

The RPR will not be responsible for the Contractor's means, methods, techniques, sequences, or procedures of construction or the safety precautions incident thereto.

50-03 Coordination of contract, plans, and specifications. The contract, plans, specifications, and all referenced standards cited are essential parts of the contract requirements. If electronic files are provided and used on the project and there is a conflict between the electronic files and hard copy plans, the hard copy plans shall govern. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of discrepancy, calculated dimensions will govern over scaled dimensions; contract technical specifications shall govern over contract general provisions, plans, cited standards for materials or testing, and cited advisory circulars (ACs); contract general provisions shall govern over plans, cited standards for materials or testing, and cited ACs; plans shall govern over cited standards for materials or testing and cited ACs. If any paragraphs

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contained in the Special Provisions conflict with General Provisions or Technical Specifications, the Special Provisions shall govern.

From time to time, discrepancies within cited testing standards occur due to the timing of the change, edits, and/or replacement of the standards. If the Contractor discovers any apparent discrepancy within standard test methods, the Contractor shall immediately ask the RPR for an interpretation and decision, and such decision shall be final.

The Contractor shall not take advantage of any apparent error or omission on the plans or specifications. In the event the Contractor discovers any apparent error or discrepancy, Contractor shall immediately notify the Owner or the designated representative in writing requesting their written interpretation and decision.

50-04 List of Special Provisions. Special Provisions (as applicable) are included in the Supplemental General Conditions and Special Provision Section of the Contract Documents.

50-05 Cooperation of Contractor. The Contractor shall be supplied with **five (5)** hard copies or an electronic PDF of the plans and specifications. The Contractor shall have available on the construction site at all times one hardcopy each of the plans and specifications. Additional hard copies of plans and specifications may be obtained by the Contractor for the cost of reproduction.

The Contractor shall give constant attention to the work to facilitate the progress thereof, and shall cooperate with the RPR and their inspectors and with other Contractors in every way possible. The Contractor shall have a competent superintendent on the work at all times who is fully authorized as their agent on the work. The superintendent shall be capable of reading and thoroughly understanding the plans and specifications and shall receive and fulfill instructions from the RPR or their authorized representative.

50-06 Cooperation between Contractors. The Owner reserves the right to contract for and perform other or additional work on or near the work covered by this contract.

When separate contracts are let within the limits of any one project, each Contractor shall conduct the work not to interfere with or hinder the progress of completion of the work being performed by other Contractors. Contractors working on the same project shall cooperate with each other as directed.

Each Contractor involved shall assume all liability, financial or otherwise, in connection with their own contract and shall protect and hold harmless the Owner from any and all damages or claims that may arise because of inconvenience, delays, or loss experienced because of the presence and operations of other Contractors working within the limits of the same project.

The Contractor shall arrange their work and shall place and dispose of the materials being used to not interfere with the operations of the other Contractors within the limits of the same project. The Contractor shall join their work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

50-07 Construction layout and stakes. The Engineer/RPR shall establish necessary horizontal and vertical control. The establishment of Survey Control and/or reestablishment of survey control shall be by a State Licensed Land Surveyor. Contractor is responsible for preserving integrity of horizontal and vertical controls established by Engineer/RPR. In case of negligence on the part of the Contractor or their employees, resulting in the destruction of any horizontal and vertical control, the resulting costs will be deducted as a liquidated damage against the Contractor.

Prior to the start of construction, the Contractor will check all control points for horizontal and vertical accuracy and certify in writing to the RPR that the Contractor concurs with survey control established for the project. All lines, grades and measurements from control points necessary for the proper execution and

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control of the work on this project will be provided to the RPR. The Contractor is responsible to establish all layout required for the construction of the project.

Copies of survey notes will be provided to the RPR for each area of construction and for each placement of material as specified to allow the RPR to make periodic checks for conformance with plan grades, alignments and grade tolerances required by the applicable material specifications. Surveys will be provided to the RPR prior to commencing work items that cover or disturb the survey staking. Survey(s) and notes shall be provided in the following format(s): **AutoCAD, Microsoft Excel and PDF Format.**

Laser, GPS, String line, or other automatic control shall be checked with temporary control as necessary. In the case of error, on the part of the Contractor, their surveyor, employees or subcontractors, resulting in established grades, alignment or grade tolerances that do not concur with those specified or shown on the plans, the Contractor is solely responsible for correction, removal, replacement and all associated costs at no additional cost to the Owner.

No direct payment will be made, unless otherwise specified in contract documents, for this labor, materials, or other expenses. The cost shall be included in the price of the bid for the various items of the Contract.

50-08 Authority and duties of Quality Assurance (QA) inspectors. QA inspectors shall be authorized to inspect all work done and all material furnished. Such QA inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of the materials to be used. QA inspectors are not authorized to revoke, alter, or waive any provision of the contract. QA inspectors are not authorized to issue instructions contrary to the plans and specifications or to act as foreman for the Contractor.

QA Inspectors are authorized to notify the Contractor or their representatives of any failure of the work or materials to conform to the requirements of the contract, plans, or specifications and to reject such nonconforming materials in question until such issues can be referred to the RPR for a decision.

50-09 Inspection of the work. All materials and each part or detail of the work shall be subject to inspection. The RPR shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

If the RPR requests it, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standard required by the specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be paid for as extra work; but should the work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be at the Contractor's expense.

Provide advance written notice to the RPR of work the Contractor plans to perform each week and each day. Any work done or materials used without written notice and allowing opportunity for inspection by the RPR may be ordered removed and replaced at the Contractor's expense.

Should the contract work include relocation, adjustment, or any other modification to existing facilities, not the property of the (contract) Owner, authorized representatives of the Owners of such facilities shall have the right to inspect such work. Such inspection shall in no sense make any facility owner a party to the contract, and shall in no way interfere with the rights of the parties to this contract.

50-10 Removal of unacceptable and unauthorized work. All work that does not conform to the requirements of the contract, plans, and specifications will be considered unacceptable, unless otherwise determined acceptable by the RPR as provided in paragraph 50-02, *Conformity with Plans and Specifications*.

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Unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner in accordance with the provisions of Section 70, paragraph 70-14, *Contractor's Responsibility for Work*.

No removal work made under provision of this paragraph shall be done without lines and grades having been established by the RPR. Work done contrary to the instructions of the RPR, work done beyond the lines shown on the plans or as established by the RPR, except as herein specified, or any extra work done without authority, will be considered as unauthorized and will not be paid for under the provisions of the contract. Work so done may be ordered removed or replaced at the Contractor's expense.

Upon failure on the part of the Contractor to comply with any order of the RPR made under the provisions of this subsection, the RPR will have authority to cause unacceptable work to be remedied or removed and replaced; and unauthorized work to be removed and recover the resulting costs as a liquidated damage against the Contractor.

50-11 Load restrictions. The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the work. A special permit will not relieve the Contractor of liability for damage that may result from the moving of material or equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads will be permitted on a concrete pavement, base, or structure before the expiration of the curing period. The Contractor, at their own expense, shall be responsible for the repair to equal or better than preconstruction conditions of any damage caused by the Contractor's equipment and personnel.

50-12 Maintenance during construction. The Contractor shall maintain the work during construction and until the work is accepted. Maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces so that the work is maintained in satisfactory condition at all times.

In the case of a contract for the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

All costs of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various contract items, and the Contractor will not be paid an additional amount for such work.

50-13 Failure to maintain the work. Should the Contractor at any time fail to maintain the work as provided in paragraph 50-12, *Maintenance during Construction*, the RPR shall immediately notify the Contractor of such noncompliance. Such notification shall specify a reasonable time within which the Contractor shall be required to remedy such unsatisfactory maintenance condition. The time specified will give due consideration to the exigency that exists.

Should the Contractor fail to respond to the RPR's notification, the Owner may suspend any work necessary for the Owner to correct such unsatisfactory maintenance condition, depending on the exigency that exists. Any maintenance cost incurred by the Owner, shall be recovered as a liquidated damage against the Contractor.

50-14 Partial acceptance. If at any time during the execution of the project the Contractor substantially completes a usable unit or portion of the work, the occupancy of which will benefit the Owner, the Contractor may request the RPR to make final inspection of that unit. If the RPR finds upon inspection that the unit has been satisfactorily completed in compliance with the contract, the RPR may accept it as being

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complete, and the Contractor may be relieved of further responsibility for that unit. Such partial acceptance and beneficial occupancy by the Owner shall not void or alter any provision of the contract.

50-15 Final acceptance. Upon due notice from the Contractor of presumptive completion of the entire project, the RPR and Owner will make an inspection. If all construction provided for and contemplated by the contract is found to be complete in accordance with the contract, plans, and specifications, such inspection shall constitute the final inspection. The RPR shall notify the Contractor in writing of final acceptance as of the date of the final inspection.

If, however, the inspection discloses any work, in whole or in part, as being unsatisfactory, the RPR will notify the Contractor and the Contractor shall correct the unsatisfactory work. Upon correction of the work, another inspection will be made which shall constitute the final inspection, provided the work has been satisfactorily completed. In such event, the RPR will make the final acceptance and notify the Contractor in writing of this acceptance as of the date of final inspection.

50-16 Claims for adjustment and disputes. If for any reason the Contractor deems that additional compensation is due for work or materials not clearly provided for in the contract, plans, or specifications or previously authorized as extra work, the Contractor shall notify the RPR in writing of their intention to claim such additional compensation before the Contractor begins the work on which the Contractor bases the claim. If such notification is not given or the RPR is not afforded proper opportunity by the Contractor for keeping strict account of actual cost as required, then the Contractor hereby agrees to waive any claim for such additional compensation. Such notice by the Contractor and the fact that the RPR has kept account of the cost of the work shall not in any way be construed as proving or substantiating the validity of the claim. When the work on which the claim for additional compensation is based has been completed, the Contractor shall, within ten (10) calendar days, submit a written claim to the RPR who will present it to the Owner for consideration in accordance with local laws or ordinances.

Nothing in this subsection shall be construed as a waiver of the Contractor's right to dispute final payment based on differences in measurements or computations.

END OF SECTION 50

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Section 60 Control of Materials

60-01 Source of supply and quality requirements. The materials used in the work shall conform to the requirements of the contract, plans, and specifications. Unless otherwise specified, such materials that are manufactured or processed shall be new (as compared to used or reprocessed).

In order to expedite the inspection and testing of materials, the Contractor shall furnish documentation to the RPR as to the origin, composition, and manufacture of all materials to be used in the work. Documentation shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials.

At the RPR's option, materials may be approved at the source of supply before delivery. If it is found after trial that sources of supply for previously approved materials do not produce specified products, the Contractor shall furnish materials from other sources.

The Contractor shall furnish airport lighting equipment that meets the requirements of the specifications; and is listed in AC 150/5345-53, *Airport Lighting Equipment Certification Program and Addendum*, that is in effect on the date of advertisement.

60-02 Samples, tests, and cited specifications. All materials used in the work shall be inspected, tested, and approved by the RPR before incorporation in the work unless otherwise designated. Any work in which untested materials are used without approval or written permission of the RPR shall be performed at the Contractor's risk. Materials found to be unacceptable and unauthorized will not be paid for and, if directed by the RPR, shall be removed at the Contractor's expense.

Unless otherwise designated, quality assurance tests will be made by and at the expense of the Owner in accordance with the cited standard methods of ASTM, American Association of State Highway and Transportation Officials (AASHTO), federal specifications, Commercial Item Descriptions, and all other cited methods, which are current on the date of advertisement for bids.

The testing organizations performing on-site quality assurance field tests shall have copies of all referenced standards on the construction site for use by all technicians and other personnel. Unless otherwise designated, samples for quality assurance will be taken by a qualified representative of the RPR. All materials being used are subject to inspection, test, or rejection at any time prior to or during incorporation into the work. Copies of all tests will be furnished to the Contractor's representative at their request after review and approval of the RPR.

A copy of all Contractor QC test data shall be provided to the RPR daily, along with printed reports, in an approved format, on a weekly basis. After completion of the project, and prior to final payment, the Contractor shall submit a final report to the RPR showing all test data reports, plus an analysis of all results showing ranges, averages, and corrective action taken on all failing tests.

All Contractor QC test data may be provided to the RPR in electronic PDF format, in lieu of hard copies.

The Contractor shall employ a Quality Control (QC) testing organization to perform all Contractor required QC tests in accordance with Item C-100 Contractor Quality Control Program (CQCP), as applicable.

60-03 Certification of compliance/analysis (COC/COA). The RPR may permit the use, prior to sampling and testing, of certain materials or assemblies when accompanied by manufacturer's COC stating that such materials or assemblies fully comply with the requirements of the contract. The certificate shall be signed by the manufacturer. Each lot of such materials or assemblies delivered to the work must be accompanied by a certificate of compliance in which the lot is clearly identified. The COA is the manufacturer's COC and includes all applicable test results.

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Materials or assemblies used on the basis of certificates of compliance may be sampled and tested at any time and if found not to be in conformity with contract requirements will be subject to rejection whether in place or not.

The form and distribution of certificates of compliance shall be as approved by the RPR.

When a material or assembly is specified by “brand name or equal” and the Contractor elects to furnish the specified “or equal,” the Contractor shall be required to furnish the manufacturer’s certificate of compliance for each lot of such material or assembly delivered to the work. Such certificate of compliance shall clearly identify each lot delivered and shall certify as to:

- a. Conformance to the specified performance, testing, quality or dimensional requirements; and,
- b. Suitability of the material or assembly for the use intended in the contract work.

The RPR shall be the sole judge as to whether the proposed “or equal” is suitable for use in the work.

The RPR reserves the right to refuse permission for use of materials or assemblies on the basis of certificates of compliance.

60-04 Plant inspection. The RPR or their authorized representative may inspect, at its source, any specified material or assembly to be used in the work. Manufacturing plants may be inspected from time to time for the purpose of determining compliance with specified manufacturing methods or materials to be used in the work and to obtain samples required for acceptance of the material or assembly.

Should the RPR conduct plant inspections, the following conditions shall exist:

- a. The RPR shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- b. The RPR shall have full entry at all reasonable times to such parts of the plant that concern the manufacture or production of the materials being furnished.
- c. If required by the RPR, the Contractor shall arrange for adequate office or working space that may be reasonably needed for conducting plant inspections. Place office or working space in a convenient location with respect to the plant.

It is understood and agreed that the Owner shall have the right to retest any material that has been tested and approved at the source of supply after it has been delivered to the site. The RPR shall have the right to reject only material which, when retested, does not meet the requirements of the contract, plans, or specifications.

60-05 Engineer/ Resident Project Representative (RPR) field office. The Contractor shall provide dedicated space for the use of the engineer, RPR, and inspectors, as a field office for the duration of the project. This space shall be located conveniently near the construction and shall be separate from any space used by the Contractor. The Contractor shall furnish water, sanitary facilities, heat, air conditioning, and electricity.

60-06 Storage of materials. Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located to facilitate their prompt inspection. The Contractor shall coordinate the storage of all materials with the RPR. Materials to be stored on airport property shall not create an obstruction to air navigation nor shall they interfere with the free and unobstructed movement of aircraft. Unless otherwise shown on the plans and/or CSPP, the storage of materials and the location of the Contractor’s plant and parked equipment or vehicles shall be as directed by the RPR. Private property shall not be used for storage purposes without written permission of the Owner or lessee of such property. The Contractor shall make all arrangements and bear all expenses for the storage of materials on private property. Upon request, the Contractor shall furnish the RPR a copy of the property Owner’s permission.

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All storage sites on private or airport property shall be restored to their original condition by the Contractor at their expense, except as otherwise agreed to (in writing) by the Owner or lessee of the property.

60-07 Unacceptable materials. Any material or assembly that does not conform to the requirements of the contract, plans, or specifications shall be considered unacceptable and shall be rejected. The Contractor shall remove any rejected material or assembly from the site of the work, unless otherwise instructed by the RPR.

Rejected material or assembly, the defects of which have been corrected by the Contractor, shall not be returned to the site of the work until such time as the RPR has approved its use in the work.

60-08 Owner furnished materials. The Contractor shall furnish all materials required to complete the work, except those specified, if any, to be furnished by the Owner. Owner-furnished materials shall be made available to the Contractor at the location specified.

All costs of handling, transportation from the specified location to the site of work, storage, and installing Owner-furnished materials shall be included in the unit price bid for the contract item in which such Owner-furnished material is used.

After any Owner-furnished material has been delivered to the location specified, the Contractor shall be responsible for any demurrage, damage, loss, or other deficiencies that may occur during the Contractor's handling, storage, or use of such Owner-furnished material. The Owner will deduct from any monies due or to become due the Contractor any cost incurred by the Owner in making good such loss due to the Contractor's handling, storage, or use of Owner-furnished materials.

END OF SECTION 60

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Section 70 Legal Regulations and Responsibility to Public

70-01 Laws to be observed. The Contractor shall keep fully informed of all federal and state laws, all local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. The Contractor shall at all times observe and comply with all such laws, ordinances, regulations, orders, and decrees; and shall protect and indemnify the Owner and all their officers, agents, or servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or the Contractor's employees.

70-02 Permits, licenses, and taxes. The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful execution of the work.

70-03 Patented devices, materials, and processes. If the Contractor is required or desires to use any design, device, material, or process covered by letters of patent or copyright, the Contractor shall provide for such use by suitable legal agreement with the Patentee or Owner. The Contractor and the surety shall indemnify and hold harmless the Owner, any third party, or political subdivision from any and all claims for infringement by reason of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Owner for any costs, expenses, and damages which it may be obliged to pay by reason of an infringement, at any time during the execution or after the completion of the work.

70-04 Restoration of surfaces disturbed by others. The Owner reserves the right to authorize the construction, reconstruction, or maintenance of any public or private utility service, FAA or National Oceanic and Atmospheric Administration (NOAA) facility, or a utility service of another government agency at any time during the progress of the work. To the extent that such construction, reconstruction, or maintenance has been coordinated with the Owner, such authorized work (by others) must be shown on the plans and is indicated as follows:

No other major work anticipated within or adjacent to the project location during construction.

Except as listed above, the Contractor shall not permit any individual, firm, or corporation to excavate or otherwise disturb such utility services or facilities located within the limits of the work without the written permission of the RPR.

Should the Owner of public or private utility service, FAA, or NOAA facility, or a utility service of another government agency be authorized to construct, reconstruct, or maintain such utility service or facility during the progress of the work, the Contractor shall cooperate with such Owners by arranging and performing the work in this contract to facilitate such construction, reconstruction or maintenance by others whether or not such work by others is listed above. When ordered as extra work by the RPR, the Contractor shall make all necessary repairs to the work which are due to such authorized work by others, unless otherwise provided for in the contract, plans, or specifications. It is understood and agreed that the Contractor shall not be entitled to make any claim for damages due to such authorized work by others or for any delay to the work resulting from such authorized work.

70-05 Federal Participation. The United States Government has agreed to reimburse the Owner for some portion of the contract costs. The contract work is subject to the inspection and approval of duly authorized representatives of the FAA Administrator. No requirement of this contract shall be construed as making the United States a party to the contract nor will any such requirement interfere, in any way, with the rights

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of either party to the contract.

70-06 Sanitary, health, and safety provisions. The Contractor's worksite and facilities shall comply with applicable federal, state, and local requirements for health, safety and sanitary provisions.

70-07 Public convenience and safety. The Contractor shall control their operations and those of their subcontractors and all suppliers, to assure the least inconvenience to the traveling public. Under all circumstances, safety shall be the most important consideration.

The Contractor shall maintain the free and unobstructed movement of aircraft and vehicular traffic with respect to their own operations and those of their own subcontractors and all suppliers in accordance with Section 40, paragraph 40-05, *Maintenance of Traffic*, and shall limit such operations for the convenience and safety of the traveling public as specified in Section 80, paragraph 80-04, *Limitation of Operations*.

The Contractor shall remove or control debris and rubbish resulting from its work operations at frequent intervals, and upon the order of the RPR. If the RPR determines the existence of Contractor debris in the work site represents a hazard to airport operations and the Contractor is unable to respond in a prompt and reasonable manner, the RPR reserves the right to assign the task of debris removal to a third party and recover the resulting costs as a liquidated damage against the Contractor.

70-08 Construction Safety and Phasing Plan (CSPP). The Contractor shall complete the work in accordance with the approved Construction Safety and Phasing Plan (CSPP) developed in accordance with AC 150/5370-2, Operational Safety on Airports During Construction. The CSPP is on the CS sheet(s) of the project plans and in the narrative located within the specifications.

70-09 Use of explosives. The use of explosives is not permitted on this project.

70-10 Protection and restoration of property and landscape. The Contractor shall be responsible for the preservation of all public and private property, and shall protect carefully from disturbance or damage all land monuments and property markers until the Engineer/RPR has witnessed or otherwise referenced their location and shall not move them until directed.

The Contractor shall be responsible for all damage or injury to property of any character, during the execution of the work, resulting from any act, omission, neglect, or misconduct in manner or method of executing the work, or at any time due to defective work or materials, and said responsibility shall not be released until the project has been completed and accepted.

When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the non-execution thereof by the Contractor, the Contractor shall restore, at their expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.

70-11 Responsibility for damage claims. The Contractor shall indemnify and hold harmless the Engineer/RPR and the Owner and their officers, agents, and employees from all suits, actions, or claims, of any character, brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Workmen's Compensation Act," or any other law, ordinance, order, or decree. Money due the Contractor under and by virtue of their own contract considered necessary by the Owner for

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such purpose may be retained for the use of the Owner or, in case no money is due, their own surety may be held until such suits, actions, or claims for injuries or damages shall have been settled and suitable evidence to that effect furnished to the Owner, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that he or she is adequately protected by public liability and property damage insurance.

70-12 Third party beneficiary clause. It is specifically agreed between the parties executing the contract that it is not intended by any of the provisions of any part of the contract to create for the public or any member thereof, a third-party beneficiary or to authorize anyone not a party to the contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of the contract.

70-13 Opening sections of the work to traffic. If it is necessary for the Contractor to complete portions of the contract work for the beneficial occupancy of the Owner prior to completion of the entire contract, such “phasing” of the work must be specified below and indicated on the approved Construction Safety and Phasing Plan (CSPP) and the project plans. When so specified, the Contractor shall complete such portions of the work on or before the date specified or as otherwise specified.

REFER TO THE CONSTRUCTION SAFETY AND PHASING PLANS (CSPP) FOR THE SCHEDULE OF WORK FOR ALL PROJECT PHASING AND ALLOWED TIME FOR EACH PHASE.

Upon completion of any portion of work listed above, such portion shall be accepted by the Owner in accordance with Section 50, paragraph 50-14, *Partial Acceptance*.

No portion of the work may be opened by the Contractor until directed by the Owner in writing. Should it become necessary to open a portion of the work to traffic on a temporary or intermittent basis, such openings shall be made when, in the opinion of the RPR, such portion of the work is in an acceptable condition to support the intended traffic. Temporary or intermittent openings are considered to be inherent in the work and shall not constitute either acceptance of the portion of the work so opened or a waiver of any provision of the contract. Any damage to the portion of the work so opened that is not attributable to traffic which is permitted by the Owner shall be repaired by the Contractor at their expense.

The Contractor shall make their own estimate of the inherent difficulties involved in completing the work under the conditions herein described and shall not claim any added compensation by reason of delay or increased cost due to opening a portion of the contract work.

The Contractor must conform to safety standards contained AC 150/5370-2 and the approved CSPP.

Contractor shall refer to the plans, specifications, and the approved CSPP to identify barricade requirements, temporary and/or permanent markings, airfield lighting, guidance signs and other safety requirements prior to opening up sections of work to traffic.

70-14 Contractor’s responsibility for work. Until the RPR’s final written acceptance of the entire completed work, excepting only those portions of the work accepted in accordance with Section 50, paragraph 50-14, *Partial Acceptance*, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part due to the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof except damage to the work due to unforeseeable causes beyond the control of and without the fault or negligence of the Contractor, including but not restricted to acts of God such as earthquake, tidal wave, tornado, hurricane or other cataclysmic phenomenon of nature, or acts of the public enemy or of government authorities.

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If the work is suspended for any cause whatever, the Contractor shall be responsible for the work and shall take such precautions necessary to prevent damage to the work. The Contractor shall provide for normal drainage and shall erect necessary temporary structures, signs, or other facilities at their own expense. During such period of suspension of work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established planting, seeding, and sodding furnished under the contract, and shall take adequate precautions to protect new tree growth and other important vegetative growth against injury.

70-15 Contractor's responsibility for utility service and facilities of others. As provided in paragraph 70-04, *Restoration of Surfaces Disturbed by Others*, the Contractor shall cooperate with the owner of any public or private utility service, FAA or NOAA, or a utility service of another government agency that may be authorized by the Owner to construct, reconstruct or maintain such utility services or facilities during the progress of the work. In addition, the Contractor shall control their operations to prevent the unscheduled interruption of such utility services and facilities.

To the extent that such public or private utility services, FAA, or NOAA facilities, or utility services of another governmental agency are known to exist within the limits of the contract work, the approximate locations have been indicated on the plans and/or in the contract documents.

REFER TO THE PROJECT PLANS FOR ANY KNOWN UTILITY SERVICE LOCATIONS WITHIN THE PROJECT LIMITS AND ASSOCIATED CONTACT INFORMATION.

It is understood and agreed that the Owner does not guarantee the accuracy or the completeness of the location information relating to existing utility services, facilities, or structures that may be shown on the plans or encountered in the work. Any inaccuracy or omission in such information shall not relieve the Contractor of the responsibility to protect such existing features from damage or unscheduled interruption of service.

It is further understood and agreed that the Contractor shall, upon execution of the contract, notify the Owners of all utility services or other facilities of their plan of operations. Such notification shall be in writing addressed to "The Person to Contact" as provided in this paragraph and paragraph 70-04, *Restoration of Surfaces Disturbed By Others*. A copy of each notification shall be given to the RPR.

In addition to the general written notification provided, it shall be the responsibility of the Contractor to keep such individual Owners advised of changes in their plan of operations that would affect such Owners.

Prior to beginning the work in the general vicinity of an existing utility service or facility, the Contractor shall again notify each such Owner of their plan of operation. If, in the Contractor's opinion, the Owner's assistance is needed to locate the utility service or facility or the presence of a representative of the Owner is desirable to observe the work, such advice should be included in the notification. Such notification shall be given by the most expeditious means to reach the utility owner's "Person to Contact" no later than two normal business days prior to the Contractor's commencement of operations in such general vicinity. The Contractor shall furnish a written summary of the notification to the RPR.

The Contractor's failure to give the two days' notice shall be cause for the Owner to suspend the Contractor's operations in the general vicinity of a utility service or facility.

Where the outside limits of an underground utility service have been located and staked on the ground, the Contractor shall be required to use hand excavation methods within 3 feet (1 m) of such outside limits at such points as may be required to ensure protection from damage due to the Contractor's operations.

Should the Contractor damage or interrupt the operation of a utility service or facility by accident or otherwise, the Contractor shall immediately notify the proper authority and the RPR and shall take all reasonable measures to prevent further damage or interruption of service. The Contractor, in such events, shall cooperate with the utility service or facility owner and the RPR continuously until such damage has

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been repaired and service restored to the satisfaction of the utility or facility owner.

The Contractor shall bear all costs of damage and restoration of service to any utility service or facility due to their operations whether due to negligence or accident. The Owner reserves the right to deduct such costs from any monies due or which may become due the Contractor, or their own surety.

70-15.1 FAA facilities and cable runs. The Contractor is hereby advised that the construction limits of the project include existing facilities and buried cable runs that are owned, operated and maintained by the FAA. The Contractor, during the execution of the project work, shall comply with the following:

a. The Contractor shall permit FAA maintenance personnel the right of access to the project work site for purposes of inspecting and maintaining all existing FAA owned facilities.

b. The Contractor shall provide notice to the FAA Air Traffic Organization (ATO)/Technical Operations/System Support Center (SSC) Point-of-Contact through the airport Owner a minimum of seven (7) calendar days prior to commencement of construction activities in order to permit sufficient time to locate and mark existing buried cables and to schedule any required facility outages.

c. If execution of the project work requires a facility outage, the Contractor shall contact the FAA Point-of-Contact a minimum of 72 hours prior to the time of the required outage.

d. Any damage to FAA cables, access roads, or FAA facilities during construction caused by the Contractor's equipment or personnel whether by negligence or accident will require the Contractor to repair or replace the damaged cables, access road, or FAA facilities to FAA requirements. The Contractor shall not bear the cost to repair damage to underground facilities or utilities improperly located by the FAA.

e. If the project work requires the cutting or splicing of FAA owned cables, the FAA Point-of-Contact shall be contacted a minimum of 72 hours prior to the time the cable work commences. The FAA reserves the right to have a FAA representative on site to observe the splicing of the cables as a condition of acceptance. All cable splices are to be accomplished in accordance with FAA specifications and require approval by the FAA Point-of-Contact as a condition of acceptance by the Owner. The Contractor is hereby advised that FAA restricts the location of where splices may be installed. If a cable splice is required in a location that is not permitted by FAA, the Contractor shall furnish and install a sufficient length of new cable that eliminates the need for any splice.

70-16 Furnishing rights-of-way. The Owner will be responsible for furnishing all rights-of-way upon which the work is to be constructed in advance of the Contractor's operations.

70-17 Personal liability of public officials. In carrying out any of the contract provisions or in exercising any power or authority granted by this contract, there shall be no liability upon the Engineer, RPR, their authorized representatives, or any officials of the Owner either personally or as an official of the Owner. It is understood that in such matters they act solely as agents and representatives of the Owner.

70-18 No waiver of legal rights. Upon completion of the work, the Owner will expeditiously make final inspection and notify the Contractor of final acceptance. Such final acceptance, however, shall not preclude or stop the Owner from correcting any measurement, estimate, or certificate made before or after completion of the work, nor shall the Owner be precluded or stopped from recovering from the Contractor or their surety, or both, such overpayment as may be sustained, or by failure on the part of the Contractor to fulfill their obligations under the contract. A waiver on the part of the Owner of any breach of any part of the contract shall not be held to be a waiver of any other or subsequent breach.

The Contractor, without prejudice to the terms of the contract, shall be liable to the Owner for latent defects, fraud, or such gross mistakes as may amount to fraud, or as regards the Owner's rights under any warranty or guaranty.

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70-19 Environmental protection. The Contractor shall comply with all federal, state, and local laws and regulations controlling pollution of the environment. The Contractor shall take necessary precautions to prevent pollution of streams, lakes, ponds, and reservoirs with fuels, oils, asphalts, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

70-20 Archaeological and historical findings. Unless otherwise specified in this subsection, the Contractor is advised that the site of the work is not within any property, district, or site, and does not contain any building, structure, or object listed in the current National Register of Historic Places published by the United States Department of Interior.

Should the Contractor encounter, during their operations, any building, part of a building, structure, or object that is incongruous with its surroundings, the Contractor shall immediately cease operations in that location and notify the RPR. The RPR will immediately investigate the Contractor's finding and the Owner will direct the Contractor to either resume operations or to suspend operations as directed.

Should the Owner order suspension of the Contractor's operations in order to protect an archaeological or historical finding, or order the Contractor to perform extra work, such shall be covered by an appropriate contract change order or supplemental agreement as provided in Section 40, paragraph 40-04, *Extra Work*, and Section 90, paragraph 90-05, *Payment for Extra Work*. If appropriate, the contract change order or supplemental agreement shall include an extension of contract time in accordance with Section 80, paragraph 80-07, *Determination and Extension of Contract Time*.

70-21 Insurance Requirements. Refer to the Project Contract Agreement for the insurance requirements.

END OF SECTION 70

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Section 80 Execution and Progress

80-01 Subletting of contract. The Owner will not recognize any subcontractor on the work. The Contractor shall at all times when work is in progress be represented either in person, by a qualified superintendent, or by other designated, qualified representative who is duly authorized to receive and execute orders of the Resident Project Representative (RPR).

The Contractor shall perform, with his organization, an amount of work equal to at least **twenty-five percent (25%)** of the total contract cost.

Should the Contractor elect to assign their contract, said assignment shall be concurred in by the surety, shall be presented for the consideration and approval of the Owner, and shall be consummated only on the written approval of the Owner.

The Contractor shall provide copies of all subcontracts to the RPR fourteen (14) days prior to being utilized on the project. As a minimum, the information shall include the following:

- Subcontractor's legal company name.
- Subcontractor's legal company address, including County name.
- Principal contact person's name, telephone and fax number.
- Complete narrative description, and dollar value of the work to be performed by the subcontractor.
- Copies of required insurance certificates in accordance with the specifications.
- Minority/ non-minority status.

80-02 Notice to proceed (NTP). The Owners notice to proceed will state the date on which contract time commences. The Contractor is expected to commence project operations within **ten (10) days** of the NTP date. The Contractor shall notify the RPR at least **twenty-four (24) hours** in advance of the time contract operations begins. The Contractor shall not commence any actual operations prior to the date on which the notice to proceed is issued by the Owner.

80-03 Execution and progress. Unless otherwise specified, the Contractor shall submit their coordinated construction schedule showing all work activities for the RPR's review and acceptance at least **ten (10) days** prior to the start of work. The Contractor's progress schedule, once accepted by the RPR, will represent the Contractor's baseline plan to accomplish the project in accordance with the terms and conditions of the Contract. The RPR will compare actual Contractor progress against the baseline schedule to determine that status of the Contractor's performance. The Contractor shall provide sufficient materials, equipment, and labor to guarantee the completion of the project in accordance with the plans and specifications within the time set forth in the proposal.

If the Contractor falls significantly behind the submitted schedule, the Contractor shall, upon the RPR's request, submit a revised schedule for completion of the work within the contract time and modify their operations to provide such additional materials, equipment, and labor necessary to meet the revised schedule. Should the execution of the work be discontinued for any reason, the Contractor shall notify the RPR at least **twenty-four (24) hours** in advance of resuming operations.

The Contractor shall not commence any actual construction prior to the date on which the NTP is issued by the Owner.

The project schedule shall be prepared as a network diagram in Critical Path Method (CPM), Program Evaluation and Review Technique (PERT), or other format, or as otherwise specified. It shall include information on the sequence of work activities, milestone dates, and activity duration. The schedule shall

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show all work items identified in the project proposal for each work area and shall include the project start date and end date.

The Contractor shall maintain the work schedule and provide an update and analysis of the progress schedule on a **twice** monthly basis, or as otherwise specified in the contract. Submission of the work schedule shall not relieve the Contractor of overall responsibility for scheduling, sequencing, and coordinating all work to comply with the requirements of the contract.

80-04 Limitation of operations. The Contractor shall control their operations and the operations of their subcontractors and all suppliers to provide for the free and unobstructed movement of aircraft in the air operations areas (AOA) of the airport.

When the work requires the Contractor to conduct their operations within an AOA of the airport, the work shall be coordinated with airport operations (through the RPR) at least **forty-eight (48) hours** prior to commencement of such work. The Contractor shall not close an AOA until so authorized by the RPR and until the necessary temporary marking, signage and associated lighting is in place as provided in Section 70, paragraph 70-08, *Construction Safety and Phasing Plan (CSPP)*.

When the contract work requires the Contractor to work within an AOA of the airport on an intermittent basis (intermittent opening and closing of the AOA), the Contractor shall maintain constant communications as specified; immediately obey all instructions to vacate the AOA; and immediately obey all instructions to resume work in such AOA. Failure to maintain the specified communications or to obey instructions shall be cause for suspension of the Contractor's operations in the AOA until satisfactory conditions are provided. The areas of the AOA identified in the Construction Safety Phasing Plan (CSPP) and as listed below, cannot be closed to operating aircraft to permit the Contractor's operations on a continuous basis and will therefore be closed to aircraft operations intermittently as follows:

REFER TO THE PROJECT PLANS FOR THE CSPP AND THE OPERATIONS IMPACTS.

The Contractor shall be required to conform to safety standards contained in AC 150/5370-2, Operational Safety on Airports During Construction and the approved CSPP.

80-04.1 Operational safety on airport during construction. All Contractors' operations shall be conducted in accordance with the approved project Construction Safety and Phasing Plan (CSPP) and the Safety Plan Compliance Document (SPCD) and the provisions set forth within the current version of AC 150/5370-2, Operational Safety on Airports During Construction. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a SPCD that details how it proposes to comply with the requirements presented within the CSPP.

The Contractor shall implement all necessary safety plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures.

The Contractor is responsible to the Owner for the conduct of all subcontractors it employs on the project. The Contractor shall assure that all subcontractors are made aware of the requirements of the CSPP and SPCD and that they implement and maintain all necessary measures.

No deviation or modifications may be made to the approved CSPP and SPCD unless approved in writing by the Owner. The necessary coordination actions to review Contractor proposed modifications to an approved CSPP or approved SPCD can require a significant amount of time. The Owner shall coordinate any changes with the FAA.

80-05 Character of workers, methods, and equipment. The Contractor shall, at all times, employ sufficient labor and equipment for prosecuting the work to full completion in the manner and time required by the contract, plans, and specifications.

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All workers shall have sufficient skill and experience to perform properly the work assigned to them. Workers engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform the work satisfactorily.

Any person employed by the Contractor or by any subcontractor who violates any operational regulations or operational safety requirements and, in the opinion of the RPR, does not perform his work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the RPR, be removed immediately by the Contractor or subcontractor employing such person, and shall not be employed again in any portion of the work without approval of the RPR.

Should the Contractor fail to remove such person or persons, or fail to furnish suitable and sufficient personnel for the proper execution of the work, the RPR may suspend the work by written notice until compliance with such orders.

All equipment that is proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce a satisfactory quality of work. Equipment used on any portion of the work shall not cause injury to previously completed work, adjacent property, or existing airport facilities due to its use.

When the methods and equipment to be used by the Contractor in accomplishing the work are not prescribed in the contract, the Contractor is free to use any methods or equipment that will accomplish the work in conformity with the requirements of the contract, plans, and specifications.

When the contract specifies the use of certain methods and equipment, such methods and equipment shall be used unless otherwise authorized by the RPR. If the Contractor desires to use a method or type of equipment other than specified in the contract, the Contractor may request authority from the RPR to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed and of the reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor will be fully responsible for producing work in conformity with contract requirements. If, after trial use of the substituted methods or equipment, the RPR determines that the work produced does not meet contract requirements, the Contractor shall discontinue the use of the substitute method or equipment and shall complete the remaining work with the specified methods and equipment. The Contractor shall remove any deficient work and replace it with work of specified quality, or take such other corrective action as the RPR may direct. No change will be made in basis of payment for the contract items involved nor in contract time as a result of authorizing a change in methods or equipment under this paragraph.

80-06 Temporary suspension of the work. The Owner shall have the authority to suspend the work wholly, or in part, for such period or periods the Owner may deem necessary, due to unsuitable weather, or other conditions considered unfavorable for the execution of the work, or for such time necessary due to the failure on the part of the Contractor to carry out orders given or perform any or all provisions of the contract.

In the event that the Contractor is ordered by the Owner, in writing, to suspend work for some unforeseen cause not otherwise provided for in the contract and over which the Contractor has no control, the Contractor may be reimbursed for actual money expended on the work during the period of shutdown. No allowance will be made for anticipated profits. The period of shutdown shall be computed from the effective date of the written order to suspend work to the effective date of the written order to resume the work. Claims for such compensation shall be filed with the RPR within the time period stated in the RPR's order to resume work. The Contractor shall submit with their own claim information substantiating the amount shown on the claim. The RPR will forward the Contractor's claim to the Owner for consideration in accordance with local laws or ordinances. No provision of this article shall be construed as entitling the Contractor to compensation for delays due to inclement weather or for any other delay provided for in the contract, plans, or specifications.

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If it becomes necessary to suspend work for an indefinite period, the Contractor shall store all materials in such manner that they will not become an obstruction nor become damaged in any way. The Contractor shall take every precaution to prevent damage or deterioration of the work performed and provide for normal drainage of the work. The Contractor shall erect temporary structures where necessary to provide for traffic on, to, or from the airport.

80-07 Determination and extension of contract time. The **number of calendar days** shall be stated in the proposal and contract and shall be known as the Contract Time.

If the contract time requires extension for reasons beyond the Contractor's control, it shall be adjusted as follows:

80-07.1 Contract time based on calendar days. Contract Time based on calendar days shall consist of the number of calendar days stated in the contract counting from the effective date of the Notice to Proceed and including all Saturdays, Sundays, holidays, and non-work days. All calendar days elapsing between the effective dates of the Owner's orders to suspend and resume all work, due to causes not the fault of the Contractor, shall be excluded.

At the time of final payment, the contract time shall be increased in the same proportion as the cost of the actually completed quantities bears to the cost of the originally estimated quantities in the proposal. Such increase in the contract time shall not consider either cost of work or the extension of contract time that has been covered by a change order or supplemental agreement. Charges against the contract time will cease as of the date of final acceptance.

80-08 Failure to complete on time. For each calendar day or working day, as specified in the contract, that any work remains uncompleted after the contract time (including all extensions and adjustments as provided in paragraph 80-07, *Determination and Extension of Contract Time*) the sum specified in the contract and proposal as liquidated damages (LD) will be deducted from any money due or to become due the Contractor or their own surety. Such deducted sums shall not be deducted as a penalty but shall be considered as liquidation of a reasonable portion of damages including but not limited to additional engineering services that will be incurred by the Owner should the Contractor fail to complete the work in the time provided in their contract.

REFER TO THE INFORMATION TO BIDDERS AND CONTRACT AGREEMENT DOCUMENTS FOR THE ALLOWED CONSTRUCTION TIME AND LIQUIDATED DAMAGES.

The maximum construction time allowed for the Project will be the sum of the time allowed for individual phase schedules as outlined in the CSPP but not more than the overall calendar days allowed. Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a waiver on the part of the Owner of any of its rights under the contract.

80-09 Default and termination of contract. The Contractor shall be considered in default of their contract and such default will be considered as cause for the Owner to terminate the contract for any of the following reasons, if the Contractor:

- a. Fails to begin the work under the contract within the time specified in the Notice to Proceed, or
- b. Fails to perform the work or fails to provide sufficient workers, equipment and/or materials to assure completion of work in accordance with the terms of the contract, or
- c. Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, or

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- d. Discontinues the execution of the work, or
- e. Fails to resume work which has been discontinued within a reasonable time after notice to do so, or
- f. Becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency, or
- g. Allows any final judgment to stand against the Contractor unsatisfied for a period of ten (10) days,
or
- h. Makes an assignment for the benefit of creditors, or
- i. For any other cause whatsoever, fails to carry on the work in an acceptable manner.

Should the Owner consider the Contractor in default of the contract for any reason above, the Owner shall immediately give written notice to the Contractor and the Contractor's surety as to the reasons for considering the Contractor in default and the Owner's intentions to terminate the contract.

If the Contractor or surety, within a period of ten (10) days after such notice, does not proceed in accordance therewith, then the Owner will, upon written notification from the RPR of the facts of such delay, neglect, or default and the Contractor's failure to comply with such notice, have full power and authority without violating the contract, to take the execution of the work out of the hands of the Contractor. The Owner may appropriate or use any or all materials and equipment that have been mobilized for use in the work and are acceptable and may enter into an agreement for the completion of said contract according to the terms and provisions thereof, or use such other methods as in the opinion of the RPR will be required for the completion of said contract in an acceptable manner.

All costs and charges incurred by the Owner, together with the cost of completing the work under contract, will be deducted from any monies due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the contract, then the Contractor and the surety shall be liable and shall pay to the Owner the amount of such excess.

80-10 Termination for national emergencies. The Owner shall terminate the contract or portion thereof by written notice when the Contractor is prevented from proceeding with the construction contract as a direct result of an Executive Order of the President with respect to the execution of war or in the interest of national defense.

When the contract, or any portion thereof, is terminated before completion of all items of work in the contract, payment will be made for the actual number of units or items of work completed at the contract price or as mutually agreed for items of work partially completed or not started. No claims or loss of anticipated profits shall be considered.

Reimbursement for organization of the work, and other overhead expenses, (when not otherwise included in the contract) and moving equipment and materials to and from the job will be considered, the intent being that an equitable settlement will be made with the Contractor.

Acceptable materials, obtained or ordered by the Contractor for the work and that are not incorporated in the work shall, at the option of the Contractor, be purchased from the Contractor at actual cost as shown by receipted bills and actual cost records at such points of delivery as may be designated by the RPR.

Termination of the contract or a portion thereof shall neither relieve the Contractor of their responsibilities for the completed work nor shall it relieve their surety of its obligation for and concerning any just claim arising out of the work performed.

80-11 Work area, storage area and sequence of operations. The Contractor shall obtain approval from the RPR prior to beginning any work in all areas of the airport. No operating runway, taxiway, or air operations area (AOA) shall be crossed, entered, or obstructed while it is operational. The Contractor shall plan and coordinate work in accordance with the approved CSPP and SPCD.

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Section 90 Measurement and Payment

90-01 Measurement of quantities. All work completed under the contract will be measured by the RPR, or their authorized representatives, using United States Customary Units of Measurement.

The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice.

Unless otherwise specified, longitudinal measurements for area computations will be made horizontally, and no deductions will be made for individual fixtures (or leave-outs) having an area of 9 square feet (0.8 square meters) or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the plans or ordered in writing by the RPR.

Unless otherwise specified, all contract items which are measured by the linear foot such as electrical ducts, conduits, pipe culverts, underdrains, and similar items shall be measured parallel to the base or foundation upon which such items are placed.

The term "lump sum" when used as an item of payment will mean complete payment for the work described in the contract. When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.

When requested by the Contractor and approved by the RPR in writing, material specified to be measured by the cubic yard (cubic meter) may be weighed, and such weights will be converted to cubic yards (cubic meters) for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the RPR and shall be agreed to by the Contractor before such method of measurement of pay quantities is used.

Measurement and Payment Terms

Table with 2 columns: Term, Description. Rows include Excavation and Embankment Volume, Measurement and Proportion by Weight, Measurement by Volume, and Asphalt Material.

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Term	Description
	corrected to the volume at 60°F (16°C) using ASTM D1250 for asphalts. Net certified scale weights or weights based on certified volumes in the case of rail shipments will be used as a basis of measurement, subject to correction when asphalt material has been lost from the car or the distributor, wasted, or otherwise not incorporated in the work. When asphalt materials are shipped by truck or transport, net certified weights by volume, subject to correction for loss or foaming, will be used for computing quantities.
Cement	Cement will be measured by the ton (kg) or hundredweight (km).
Structure	Structures will be measured according to neat lines shown on the plans or as altered to fit field conditions.
Timber	Timber will be measured by the thousand feet board measure (MFBM) actually incorporated in the structure. Measurement will be based on nominal widths and thicknesses and the extreme length of each piece.
Plates and Sheets	The thickness of plates and galvanized sheet used in the manufacture of corrugated metal pipe, metal plate pipe culverts and arches, and metal cribbing will be specified and measured in decimal fraction of inch.
Miscellaneous Items	When standard manufactured items are specified such as fence, wire, plates, rolled shapes, pipe conduit, etc., and these items are identified by gauge, unit weight, section dimensions, etc., such identification will be considered to be nominal weights or dimensions. Unless more stringently controlled by tolerances in cited specifications, manufacturing tolerances established by the industries involved will be accepted.
Scales	<p>Scales must be tested for accuracy and serviced before use. Scales for weighing materials which are required to be proportioned or measured and paid for by weight shall be furnished, erected, and maintained by the Contractor, or be certified permanently installed commercial scales. Platform scales shall be installed and maintained with the platform level and rigid bulkheads at each end. Scales shall be accurate within 0.5% of the correct weight throughout the range of use. The Contractor shall have the scales checked under the observation of the RPR before beginning work and at such other times as requested. The intervals shall be uniform in spacing throughout the graduated or marked length of the beam or dial and shall not exceed 0.1% of the nominal rated capacity of the scale, but not less than one pound (454 grams). The use of spring balances will not be permitted.</p> <p>In the event inspection reveals the scales have been “overweighing” (indicating more than correct weight) they will be immediately adjusted. All materials received subsequent to the last previous correct weighting-accuracy test will be reduced by the percentage of error in excess of 0.5%.</p> <p>In the event inspection reveals the scales have been under-weighing (indicating less than correct weight), they shall be immediately adjusted. No additional payment to the Contractor will be allowed for materials previously weighed and recorded.</p> <p>Beams, dials, platforms, and other scale equipment shall be so arranged that the operator and the RPR can safely and conveniently view them.</p> <p>Scale installations shall have available ten standard 50-pound (2.3 km) weights for testing the weighing equipment or suitable weights and devices for other approved equipment.</p> <p>All costs in connection with furnishing, installing, certifying, testing, and maintaining scales; for furnishing check weights and scale house; and for all other</p>

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Term	Description
	items specified in this subsection, for the weighing of materials for proportioning or payment, shall be included in the unit contract prices for the various items of the project.
Rental Equipment	Rental of equipment will be measured by time in hours of actual working time and necessary traveling time of the equipment within the limits of the work. Special equipment ordered in connection with extra work will be measured as agreed in the change order or supplemental agreement authorizing such work as provided in paragraph 90-05 <i>Payment for Extra Work</i> .
Pay Quantities	When the estimated quantities for a specific portion of the work are designated as the pay quantities in the contract, they shall be the final quantities for which payment for such specific portion of the work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the RPR. If revised dimensions result in an increase or decrease in the quantities of such work, the final quantities for payment will be revised in the amount represented by the authorized changes in the dimensions.

90-02 Scope of payment. The Contractor shall receive and accept compensation provided for in the contract as full payment for furnishing all materials, for performing all work under the contract in a complete and acceptable manner, and for all risk, loss, damage, or expense of whatever character arising out of the nature of the work or the execution thereof, subject to the provisions of Section 70, paragraph 70-18, *No Waiver of Legal Rights*.

When the “basis of payment” subsection of a technical specification requires that the contract price (price bid) include compensation for certain work or material essential to the item, this same work or material will not also be measured for payment under any other contract item which may appear elsewhere in the contract, plans, or specifications.

90-03 Compensation for altered quantities. When the accepted quantities of work vary from the quantities in the proposal, the Contractor shall accept as payment in full, so far as contract items are concerned, payment at the original contract price for the accepted quantities of work actually completed and accepted. No allowance, except as provided for in Section 40, paragraph 40-02, *Alteration of Work and Quantities*, will be made for any increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor which results directly from such alterations or indirectly from their own unbalanced allocation of overhead and profit among the contract items, or from any other cause.

90-04 Payment for omitted items. As specified in Section 40, paragraph 40-03, *Omitted Items*, the RPR shall have the right to omit from the work (order nonperformance) any contract item, except major contract items, in the best interest of the Owner.

Should the RPR omit or order nonperformance of a contract item or portion of such item from the work, the Contractor shall accept payment in full at the contract prices for any work actually completed and acceptable prior to the RPR’s order to omit or non-perform such contract item.

Acceptable materials ordered by the Contractor or delivered on the work prior to the date of the RPR’s order will be paid for at the actual cost to the Contractor and shall thereupon become the property of the Owner.

In addition to the reimbursement hereinbefore provided, the Contractor shall be reimbursed for all actual costs incurred for the purpose of performing the omitted contract item prior to the date of the RPR’s order. Such additional costs incurred by the Contractor must be directly related to the deleted contract item and shall be supported by certified statements by the Contractor as to the nature the amount of such costs.

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90-05 Payment for extra work. Extra work, performed in accordance with Section 40, paragraph 40-04, *Extra Work*, will be paid for at the contract prices or agreed prices specified in the change order or supplemental agreement authorizing the extra work.

90-06 Partial payments. Partial payments will be made to the Contractor at least once each month as the work progresses. Said payments will be based upon estimates, prepared by the RPR, of the value of the work performed and materials complete and in place, in accordance with the contract, plans, and specifications. Such partial payments may also include the delivered actual cost of those materials stockpiled and stored in accordance with paragraph 90-07, *Payment for Materials on Hand*. No partial payment will be made when the amount due to the Contractor since the last estimate amounts to less than five hundred dollars.

a. From the total of the amount determined to be payable on a partial payment, **ten percent (10%), unless otherwise modified in the Supplemental General Provision**, of such total amount will be deducted and retained by the Owner for protection of the Owner's interests. Unless otherwise instructed by the Owner, the amount retained by the Owner will be in effect until the final payment is made except as follows:

(1) Contractor may request release of retainage on work that has been partially accepted by the Owner in accordance with Section 50-14. Contractor must provide a certified invoice to the RPR that supports the value of retainage held by the Owner for partially accepted work.

(2) In lieu of retainage, the Contractor may exercise at its option the establishment of an escrow account per paragraph 90-08.

b. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts no later than thirty (30) days after the Contractor has received a partial payment. Contractor must provide the Owner evidence of prompt and full payment of retainage held by the prime Contractor to the subcontractor within thirty (30) days after the subcontractor's work is satisfactorily completed. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented as required by the Owner. When the Owner has made an incremental acceptance of a portion of a prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.

c. When at least ninety-five percent (95%) of the work has been completed to the satisfaction of the RPR, the RPR shall, at the Owner's discretion and with the consent of the surety, prepare estimates of both the contract value and the cost of the remaining work to be done. The Owner may retain an amount not less than twice the contract value or estimated cost, whichever is greater, of the work remaining to be done. The remainder, less all previous payments and deductions, will then be certified for payment to the Contractor.

It is understood and agreed that the Contractor shall not be entitled to demand or receive partial payment based on quantities of work in excess of those provided in the proposal or covered by approved change orders or supplemental agreements, except when such excess quantities have been determined by the RPR to be a part of the final quantity for the item of work in question.

No partial payment shall bind the Owner to the acceptance of any materials or work in place as to quality or quantity. All partial payments are subject to correction at the time of final payment as provided in paragraph 90-09, *Acceptance and Final Payment*.

The Contractor shall deliver to the Owner a complete release of all claims for labor and material arising out of this contract before the final payment is made. If any subcontractor or supplier fails to furnish such a release in full, the Contractor may furnish a bond or other collateral satisfactory to the Owner to indemnify the Owner against any potential lien or other such claim. The bond or collateral shall include all costs, expenses, and attorney fees the Owner may be compelled to pay in discharging any such lien or claim.

90-07 Payment for materials on hand. Partial payments may be made to the extent of the delivered cost

DIVISION 1 - FAA GENERAL CONTRACT PROVISIONS

of materials to be incorporated in the work, provided that such materials meet the requirements of the contract, plans, and specifications and are delivered to acceptable sites on the airport property or at other sites in the vicinity that are acceptable to the Owner. Such delivered costs of stored or stockpiled materials may be included in the next partial payment after the following conditions are met:

- a. The material has been stored or stockpiled in a manner acceptable to the RPR at or on an approved site.
- b. The Contractor has furnished the RPR with acceptable evidence of the quantity and quality of such stored or stockpiled materials.
- c. The Contractor has furnished the RPR with satisfactory evidence that the material and transportation costs have been paid.
- d. The Contractor has furnished the Owner legal title (free of liens or encumbrances of any kind) to the material stored or stockpiled.
- e. The Contractor has furnished the Owner evidence that the material stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the work.

It is understood and agreed that the transfer of title and the Owner's payment for such stored or stockpiled materials shall in no way relieve the Contractor of their responsibility for furnishing and placing such materials in accordance with the requirements of the contract, plans, and specifications.

In no case will the amount of partial payments for materials on hand exceed the contract price for such materials or the contract price for the contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant materials.

The Contractor shall bear all costs associated with the partial payment of stored or stockpiled materials in accordance with the provisions of this paragraph.

90-08 Payment of withheld funds. At the Contractor's option, if an Owner withholds retainage in accordance with the methods described in paragraph 90-06 *Partial Payments*, the Contractor may request that the Owner deposit the retainage into an escrow account. The Owner's deposit of retainage into an escrow account is subject to the following conditions:

- a. The Contractor shall bear all expenses of establishing and maintaining an escrow account and escrow agreement acceptable to the Owner.
- b. The Contractor shall deposit to and maintain in such escrow only those securities or bank certificates of deposit as are acceptable to the Owner and having a value not less than the retainage that would otherwise be withheld from partial payment.
- c. The Contractor shall enter into an escrow agreement satisfactory to the Owner.
- d. The Contractor shall obtain the written consent of the surety to such agreement.

90-09 Acceptance and final payment. When the contract work has been accepted in accordance with the requirements of Section 50, paragraph 50-15, *Final Acceptance*, the RPR will prepare the final estimate of the items of work actually performed. The Contractor shall approve the RPR's final estimate or advise the RPR of the Contractor's objections to the final estimate which are based on disputes in measurements or computations of the final quantities to be paid under the contract as amended by change order or supplemental agreement. The Contractor and the RPR shall resolve all disputes (if any) in the measurement and computation of final quantities to be paid within thirty (30) calendar days of the Contractor's receipt of the RPR's final estimate. If, after such 30-day period, a dispute still exists, the Contractor may approve the RPR's estimate under protest of the quantities in dispute, and such disputed quantities shall be considered by the Owner as a claim in accordance with Section 50, paragraph 50-16, *Claims for Adjustment and*

DIVISION 1 - FAA GENERAL CONTRACT PROVISIONS

Disputes.

After the Contractor has approved, or approved under protest, the RPR's final estimate, and after the RPR's receipt of the project closeout documentation required in paragraph 90-11, *Contractor Final Project Documentation*, final payment will be processed based on the entire sum, or the undisputed sum in case of approval under protest, determined to be due the Contractor less all previous payments and all amounts to be deducted under the provisions of the contract. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

If the Contractor has filed a claim for additional compensation under the provisions of Section 50, paragraph 50-16, *Claims for Adjustments and Disputes*, or under the provisions of this paragraph, such claims will be considered by the Owner in accordance with local laws or ordinances. Upon final adjudication of such claims, any additional payment determined to be due the Contractor will be paid pursuant to a supplemental final estimate.

90-10 Construction warranty.

a. In addition to any other warranties in this contract, the Contractor warrants that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, workmanship, or design furnished, or performed by the Contractor or any subcontractor or supplier at any tier.

b. This warranty shall continue for a period of one (1) year from the date of final acceptance of the work, except as noted. If the Owner takes possession of any part of the work before final acceptance, this warranty shall continue for a period of one (1) year from the date the Owner takes possession. However, this will not relieve the Contractor from corrective items required by the final acceptance of the project work. Light Emitting Diode emitting diode (LED) light fixtures with the exception of obstruction lighting, must be warranted by the manufacturer for a minimum of four (4) years after date of installation inclusive of all electronics.

c. The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Owner real or personal property, when that damage is the result of the Contractor's failure to conform to contract requirements; or any defect of equipment, material, workmanship, or design furnished by the Contractor.

d. The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for one year from the date of repair or replacement.

e. The Owner will notify the Contractor, in writing, within seven (7) days after the discovery of any failure, defect, or damage.

f. If the Contractor fails to remedy any failure, defect, or damage within fourteen (14) days after receipt of notice, the Owner shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.

g. With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall: (1) Obtain all warranties that would be given in normal commercial practice; (2) Require all warranties to be executed, in writing, for the benefit of the Owner, as directed by the Owner, and (3) Enforce all warranties for the benefit of the Owner.

h. This warranty shall not limit the Owner's rights with respect to latent defects, gross mistakes, or fraud.

90-11 Contractor Final Project Documentation. Approval of final payment to the Contractor is

DIVISION 1 - FAA GENERAL CONTRACT PROVISIONS

contingent upon completion and submittal of the items listed below. The final payment will not be approved until the RPR approves the Contractor's final submittal. The Contractor shall:

- a.** Provide two (2) copies of all manufacturers warranties specified for materials, equipment, and installations.
- b.** Provide weekly payroll records (not previously received) from the general Contractor and all subcontractors.
- c.** Complete final cleanup in accordance with Section 40, paragraph 40-08, *Final Cleanup*.
- d.** Complete all punch list items identified during the Final Inspection.
- e.** Provide complete release of all claims for labor and material arising out of the Contract.
- f.** Provide a certified statement signed by the subcontractors, indicating actual amounts paid to the Disadvantaged Business Enterprise (DBE) subcontractors and/or suppliers associated with the project.
- g.** When applicable per state requirements, return copies of sales tax completion forms.
- h.** Manufacturer's certifications for all items incorporated in the work.
- i.** All required record drawings, as-built drawings or as-constructed drawings.
- j.** Project Operation and Maintenance (O&M) Manual(s).
- k.** Security for Construction Warranty.
- l.** Equipment commissioning documentation submitted, if required.

END OF SECTION 90

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Contract Provision Guidelines for Obligated Sponsors and Airport Improvement Program Projects

(As of May 24, 2023)

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ACCESS TO RECORDS AND REPORTS
(2 CFR § 200.333, 2 CFR § 200.336, FAA Order 5100.38)

NOT REQUIRED FOR THIS PROJECT

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION to
ENSURE EQUAL EMPLOYMENT OPPORTUNITY
(41 CFR part 60-4, Executive Order 11246)**

NOT REQUIRED FOR THIS PROJECT

**BREACH OF CONTRACT TERMS
(2 CFR § 200 Appendix II(A))**

NOT REQUIRED FOR THIS PROJECT

BUY AMERICAN PREFERENCE
(Title 49 USC § 50101, Executive Order 14005,
Bipartisan Infrastructure Law (Pub. L. No. 117-58), Buy America, Build America (BABA))

NOT REQUIRED FOR THIS PROJECT

Last Modified: 04/18/2025 at 12:56PM EDT

**GENERAL CIVIL RIGHTS PROVISIONS
(49 USC § 47123)**

CONTRACT CLAUSES

GENERAL CIVIL RIGHTS PROVISIONS

In all its activities within the scope of its airport program, the Contractor agrees to comply with pertinent statutes, Executive Orders, and such rules as identified in Title VI List of Pertinent Nondiscrimination Acts and Authorities to ensure that no person shall, on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

The above provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract.

**GENERAL CIVIL RIGHTS – TITLE VI ASSURANCES
(49 USC § 47123, FAA Order 1400.11)**

TITLE VI SOLICITATION NOTICE:

The **Town of Nantucket, Nantucket Memorial Airport Commission, Massachusetts**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders or offerors that it will affirmatively ensure that for any contract entered into pursuant to this advertisement, select businesses or disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and no businesses will be discriminated against on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability in consideration for an award.

CONTRACT CLAUSE

TITLE VI LIST OF PERTINENT NONDISCRIMINATION ACTS AND AUTHORITIES

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “Contractor”) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 USC § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination in Federally-Assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);

- Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27 (Nondiscrimination on the Basis of Disability in Programs or Activities Receiving Federal Financial Assistance);
- The Age Discrimination Act of 1975, as amended (42 USC § 6101 *et seq.*) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 USC § 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (PL 100-259) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990 (42 USC § 12101, *et seq.*) (prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations);
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs [70 Fed. Reg. 74087 (2005)];
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC § 1681, *et seq.*).

**TITLE VI CONTRACT CLAUSES
FOR COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS**

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “Contractor”), agrees as follows:

1. **Compliance with Regulations:** The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age, or disability in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

3. **Solicitations for Subcontracts, including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the contractor's obligations under this contract and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.
4. **Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a Contractor's noncompliance with the non-discrimination provisions of this contract, the Sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - a. Withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Sponsor to enter into any litigation to protect the interests of the Sponsor. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

CLEAN AIR AND WATER POLLUTION CONTROL
(2 CFR § 200, Appendix II(G), 42 USC § 7401, 33 USC § 1251)

NOT REQUIRED FOR THIS PROJECT

Last Modified: 04/18/2025 at 12:56PM EDT

**CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS
(2 CFR § 200, Appendix II(E); 2 CFR§ 5.5(b); 40 USC § 3702; 40 USC § 3704)**

NOT REQUIRED FOR THIS PROJECT

**COPELAND “ANTI-KICKBACK” ACT
(2 CFR § 200, Appendix II(D), 29 CFR Parts 3 and 5)**

NOT REQUIRED FOR THIS PROJECT

DAVIS-BACON REQUIREMENTS
(2 CFR § 200, Appendix II(D); 29 CFR Part 5; 49 USC§ 47112(B);
40 USC §§ 3141-3144, 3146, and 3147)

NOT REQUIRED FOR THIS PROJECT

DEBARMENT AND SUSPENSION
(2 CFR part 180 (Subpart B); 2 CFR part 200, Appendix II(H); 2 CFR part 1200;
DOT Order 4200.5; Executive Orders 12549 and 12689)

NOT REQUIRED FOR THIS PROJECT

DISADVANTAGED BUSINESS ENTERPRISES
(49 CFR part 26)

NOT REQUIRED FOR THIS PROJECT

DISTRACTED DRIVING
(Executive Order 13513, DOT Order 3902.10)

NOT REQUIRED FOR THIS PROJECT

**PROHIBITION OF CERTAIN TELECOMMUNICATIONS
AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
(2 CFR § 200, Appendix II(K); 2 CFR 200.216)**

NOT REQUIRED FOR THIS PROJECT

EQUAL EMPLOYMENT OPPORTUNITY
(2 CFR 200, Appendix II©, 41 CFR § 60-1.4, 41 CFR § 60-4.3, Executive Order 11246)

NOT REQUIRED FOR THIS PROJECT

FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)
(29 USC § 201, et seq; 2 CFR 200.430)

SOLICITATION CLAUSE

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers.

The *Contractor* has full responsibility to monitor compliance to the referenced statute or regulation. The *Contractor* must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

LOBBYING AND INFLUENCING FEDERAL EMPLOYEES
(31 USC § 1352 – Byrd Anti-Lobbying Amendment; 2 CFR part 200, Appendix II(i);
49 CFR part 20, Appendix A)

NOT REQUIRED FOR THIS PROJECT

**PROHIBITION OF SEGREGATED FACILITIES
(2 CFR Part 200, Appendix II(C); 41 CFR § 60)**

NOT REQUIRED FOR THIS PROJECT

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970
(29 CFR part 1910)

CONTRACT CLAUSE

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. The ***Employer*** must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The ***Employer*** retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (29 CFR Part 1910). The ***Employer*** must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

PROCUREMENT OF RECOVERED MATERIALS
(2 CFR § 200.322; 2 CFR Part 200, Appendix II(J); 40 CFR part 247;
42 USC § 6901, et seq (Resource Conservation and Recovery Act (RCRA)))

NOT REQUIRED FOR THIS PROJECT

RIGHTS TO INVENTIONS
(2 CFR § 200.322; 37 CFR part 401)

THIS SECTION IS NOT APPLICABLE FOR THIS CONTRACT.

SEISMIC SAFETY
(2 CFR § 200.322; 37 CFR part 401)
(Applicable ONLY to Building Construction, including Vault Additions)

THIS SECTION IS NOT APPLICABLE FOR THIS CONTRACT.

TAX DELINQUENCY AND FELONY CONVICTIONS
(Sections 8113 of the Consolidated Appropriations Act 2022; DOT Order 4200.6)

NOT REQUIRED FOR THIS PROJECT

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TERMINATION OF CONTRACT
(2 CFR § 200 Appendix II(B); FAA Advisory Circular 150/5370-10 Sections 80-90)

NOT REQUIRED FOR THIS PROJECT

TRADE RESTRICTION CERTIFICATION
(49 USC § 50104; 49 CFR part 30)

NOT REQUIRED FOR THIS PROJECT

**VETERAN'S PREFERENCE
(49 USC § 47112(c))**

NOT REQUIRED FOR THIS PROEJCT

DOMESTIC PREFERENCE FOR PROCUREMENTS
(2 CFR § 200.322; 2 CFR Part 200, Appendix II(L))

NOT REQUIRED FOR THIS PROJECT

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DIVISION 1 – PROJECT CONTRACT SPECIFICATIONS

**COMMONWEALTH OF MASSACHUSETTS
PREVAILING WAGE RATES**

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MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Nantucket Memorial Airport
Contract Number: **City/Town:** NANTUCKET
Description of Work: Installation of a Sound Barrier Wall (Approximately 1,300' x 23') adjacent to an Aircraft Parking Apron
Job Location: 14 Airport Road, Nantucket MA 02554

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F "rental of equipment" contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets from DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$39.95	\$15.57	\$20.17	\$0.00	\$75.69
	06/01/2025	\$40.95	\$15.57	\$20.17	\$0.00	\$76.69
	12/01/2025	\$40.95	\$15.57	\$21.78	\$0.00	\$78.30
	01/01/2026	\$40.95	\$16.17	\$21.78	\$0.00	\$78.90
	06/01/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$79.90
	12/01/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$81.64
	01/01/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.02	\$15.57	\$20.17	\$0.00	\$75.76
	06/01/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$76.76
	12/01/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$78.37
	01/01/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$78.97
	06/01/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$79.97
	12/01/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$81.71
	01/01/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.14	\$15.57	\$20.17	\$0.00	\$75.88
	06/01/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$76.88
	12/01/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$78.49
	01/01/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$79.09
	06/01/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$80.09
	12/01/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$81.83
	01/01/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	01/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
	12/01/2028	\$51.25	\$9.90	\$18.36	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	12/01/2024	\$42.80	\$14.50	\$11.05	\$0.00	\$68.35
	06/01/2025	\$43.80	\$14.50	\$11.05	\$0.00	\$69.35
	12/01/2025	\$44.80	\$14.50	\$11.05	\$0.00	\$70.35

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
	12/01/2028	\$51.25	\$9.90	\$18.36	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
2	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
3	70	\$33.68	\$7.07	\$14.23	\$0.00	\$54.98
4	75	\$36.09	\$7.07	\$15.24	\$0.00	\$58.40
5	80	\$38.50	\$7.07	\$16.25	\$0.00	\$61.82
6	85	\$40.90	\$7.07	\$17.28	\$0.00	\$65.25
7	90	\$43.31	\$7.07	\$18.28	\$0.00	\$68.66
8	95	\$45.71	\$7.07	\$19.32	\$0.00	\$72.10

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (NEW BEDFORD)</i>	02/01/2025	\$65.80	\$11.49	\$23.59	\$0.00	\$100.88
	08/01/2025	\$67.95	\$11.49	\$23.59	\$0.00	\$103.03
	02/01/2026	\$69.30	\$11.49	\$23.59	\$0.00	\$104.38
	08/01/2026	\$71.50	\$11.49	\$23.59	\$0.00	\$106.58
	02/01/2027	\$72.90	\$11.49	\$23.59	\$0.00	\$107.98

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 New Bedford

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.90	\$11.49	\$23.59	\$0.00	\$67.98
2	60	\$39.48	\$11.49	\$23.59	\$0.00	\$74.56
3	70	\$46.06	\$11.49	\$23.59	\$0.00	\$81.14
4	80	\$52.64	\$11.49	\$23.59	\$0.00	\$87.72
5	90	\$59.22	\$11.49	\$23.59	\$0.00	\$94.30

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.98	\$11.49	\$23.59	\$0.00	\$69.06
2	60	\$40.77	\$11.49	\$23.59	\$0.00	\$75.85
3	70	\$47.57	\$11.49	\$23.59	\$0.00	\$82.65
4	80	\$54.36	\$11.49	\$23.59	\$0.00	\$89.44
5	90	\$61.16	\$11.49	\$23.59	\$0.00	\$96.24

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2024	\$47.35	\$9.90	\$19.05	\$0.00	\$76.30
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.85	\$9.90	\$19.05	\$0.00	\$77.80
	12/01/2025	\$50.35	\$9.90	\$19.05	\$0.00	\$79.30
	06/01/2026	\$51.90	\$9.90	\$19.05	\$0.00	\$80.85
	12/01/2026	\$53.40	\$9.90	\$19.05	\$0.00	\$82.35

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER	12/01/2024	\$46.20	\$9.90	\$19.05	\$0.00	\$75.15
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$47.70	\$9.90	\$19.05	\$0.00	\$76.65
	12/01/2025	\$49.20	\$9.90	\$19.05	\$0.00	\$78.15
	06/01/2026	\$50.75	\$9.90	\$19.05	\$0.00	\$79.70
	12/01/2026	\$52.25	\$9.90	\$19.05	\$0.00	\$81.20

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING TOP MAN	12/01/2024	\$46.53	\$9.90	\$19.05	\$0.00	\$75.48
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.03	\$9.90	\$19.05	\$0.00	\$76.98
	12/01/2025	\$49.53	\$9.90	\$19.05	\$0.00	\$78.48
	06/01/2026	\$51.08	\$9.90	\$19.05	\$0.00	\$80.03
	12/01/2026	\$52.58	\$9.90	\$19.05	\$0.00	\$81.53

For apprentice rates see "Apprentice- LABORER"

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

CARPENTER <i>CARPENTERS -ZONE 1 (Metro Boston)</i>	03/01/2025	\$60.46	\$9.83	\$19.97	\$0.00	\$90.26
	09/01/2025	\$61.96	\$9.83	\$19.97	\$0.00	\$91.76
	03/01/2026	\$63.46	\$9.83	\$19.97	\$0.00	\$93.26
	09/01/2026	\$64.96	\$9.83	\$19.97	\$0.00	\$94.76
	03/01/2027	\$66.46	\$9.83	\$19.97	\$0.00	\$96.26

Apprentice - CARPENTER - Zone 1 Metro Boston

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$27.21	\$9.83	\$1.73	\$0.00	\$38.77
2	45	\$27.21	\$9.83	\$1.73	\$0.00	\$38.77
3	55	\$33.25	\$9.83	\$3.40	\$0.00	\$46.48
4	55	\$33.25	\$9.83	\$3.40	\$0.00	\$46.48
5	70	\$42.32	\$9.83	\$16.51	\$0.00	\$68.66
6	70	\$42.32	\$9.83	\$16.51	\$0.00	\$68.66
7	80	\$48.37	\$9.83	\$18.24	\$0.00	\$76.44
8	80	\$48.37	\$9.83	\$18.24	\$0.00	\$76.44

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$27.88	\$9.83	\$1.73	\$0.00	\$39.44
2	45	\$27.88	\$9.83	\$1.73	\$0.00	\$39.44
3	55	\$34.08	\$9.83	\$3.40	\$0.00	\$47.31
4	55	\$34.08	\$9.83	\$3.40	\$0.00	\$47.31
5	70	\$43.37	\$9.83	\$16.51	\$0.00	\$69.71
6	70	\$43.37	\$9.83	\$16.51	\$0.00	\$69.71
7	80	\$49.57	\$9.83	\$18.24	\$0.00	\$77.64
8	80	\$49.57	\$9.83	\$18.24	\$0.00	\$77.64

Notes:

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	10/01/2024	\$26.65	\$7.02	\$4.80	\$0.00	\$38.47
	10/01/2025	\$27.75	\$7.02	\$4.80	\$0.00	\$39.57
	10/01/2026	\$28.85	\$7.02	\$4.80	\$0.00	\$40.67

Classification

All Aspects of New Wood Frame Work

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
2	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
3	65	\$17.32	\$7.02	\$1.00	\$0.00	\$25.34
4	70	\$18.66	\$7.02	\$1.00	\$0.00	\$26.68
5	75	\$19.99	\$7.02	\$4.80	\$0.00	\$31.81
6	80	\$21.32	\$7.02	\$4.80	\$0.00	\$33.14
7	85	\$22.65	\$7.02	\$4.80	\$0.00	\$34.47
8	90	\$23.99	\$7.02	\$4.80	\$0.00	\$35.81

Effective Date - 10/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
2	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
3	65	\$18.04	\$7.02	\$1.00	\$0.00	\$26.06
4	70	\$19.43	\$7.02	\$1.00	\$0.00	\$27.45
5	75	\$20.81	\$7.02	\$4.80	\$0.00	\$32.63
6	80	\$22.20	\$7.02	\$4.80	\$0.00	\$34.02
7	85	\$23.59	\$7.02	\$4.80	\$0.00	\$35.41
8	90	\$24.98	\$7.02	\$4.80	\$0.00	\$36.80

Notes:

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 (NEW BEDFORD)	07/01/2024	\$49.19	\$13.35	\$24.21	\$1.80	\$88.55
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.60	\$13.35	\$16.43	\$0.00	\$54.38
2	60	\$29.51	\$13.35	\$19.21	\$1.80	\$63.87
3	65	\$31.97	\$13.35	\$20.21	\$1.80	\$67.33
4	70	\$34.43	\$13.35	\$21.21	\$1.80	\$70.79
5	75	\$36.89	\$13.35	\$22.21	\$1.80	\$74.25
6	80	\$39.35	\$13.35	\$23.21	\$1.80	\$77.71
7	90	\$44.27	\$13.35	\$24.21	\$1.80	\$83.63

Notes:
Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$58.18	\$15.55	\$16.50	\$0.00	\$90.23
	06/01/2025	\$59.51	\$15.55	\$16.50	\$0.00	\$91.56
	12/01/2025	\$60.98	\$15.55	\$16.50	\$0.00	\$93.03
	06/01/2026	\$62.31	\$15.55	\$16.50	\$0.00	\$94.36
	12/01/2026	\$63.79	\$15.55	\$16.50	\$0.00	\$95.84

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN LABORERS - ZONE 2	12/02/2024	\$46.25	\$9.90	\$18.90	\$0.00	\$75.05
	06/02/2025	\$47.75	\$9.90	\$18.90	\$0.00	\$76.55
	12/01/2025	\$49.25	\$9.90	\$18.90	\$0.00	\$78.05
	06/01/2026	\$50.80	\$9.90	\$18.90	\$0.00	\$79.60
	12/07/2026	\$52.30	\$9.90	\$18.90	\$0.00	\$81.10
	06/07/2027	\$53.90	\$9.90	\$18.90	\$0.00	\$82.70
	12/06/2027	\$55.50	\$9.90	\$18.90	\$0.00	\$84.30
	06/05/2028	\$57.18	\$9.90	\$18.90	\$0.00	\$85.98
	12/04/2028	\$58.85	\$9.90	\$18.90	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 2	12/02/2024	\$47.25	\$9.90	\$18.90	\$0.00	\$76.05
	06/02/2025	\$48.75	\$9.90	\$18.90	\$0.00	\$77.55
	12/01/2025	\$50.25	\$9.90	\$18.90	\$0.00	\$79.05
	06/01/2026	\$51.80	\$9.90	\$18.90	\$0.00	\$80.60
	12/07/2026	\$53.30	\$9.90	\$18.90	\$0.00	\$82.10
	06/07/2027	\$54.90	\$9.90	\$18.90	\$0.00	\$83.70
	12/06/2027	\$56.50	\$9.90	\$18.90	\$0.00	\$85.30
	06/05/2028	\$58.18	\$9.90	\$18.90	\$0.00	\$86.98
	12/04/2028	\$59.85	\$9.90	\$18.90	\$0.00	\$88.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS LABORERS - ZONE 2	12/02/2024	\$47.00	\$9.90	\$18.90	\$0.00	\$75.80
	06/02/2025	\$48.50	\$9.90	\$18.90	\$0.00	\$77.30
	12/01/2025	\$50.00	\$9.90	\$18.90	\$0.00	\$78.80
	06/01/2026	\$51.55	\$9.90	\$18.90	\$0.00	\$80.35
	12/07/2026	\$53.05	\$9.90	\$18.90	\$0.00	\$81.85
	06/07/2027	\$54.65	\$9.90	\$18.90	\$0.00	\$83.45
	12/06/2027	\$56.25	\$9.90	\$18.90	\$0.00	\$85.05
	06/05/2028	\$57.93	\$9.90	\$18.90	\$0.00	\$86.73
	12/04/2028	\$59.60	\$9.90	\$18.90	\$0.00	\$88.40

Last Modified: 04/18/2025 at 12:56PM EDT

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 2	12/02/2024	\$47.25	\$9.90	\$18.90	\$0.00	\$76.05
	06/02/2025	\$48.75	\$9.90	\$18.90	\$0.00	\$77.55
	12/01/2025	\$50.25	\$9.90	\$18.90	\$0.00	\$79.05
	06/01/2026	\$51.80	\$9.90	\$18.90	\$0.00	\$80.60
	12/07/2026	\$53.30	\$9.90	\$18.90	\$0.00	\$82.10
	06/07/2027	\$54.90	\$9.90	\$18.90	\$0.00	\$83.70
	12/06/2027	\$56.50	\$9.90	\$18.90	\$0.00	\$85.30
	06/05/2028	\$58.18	\$9.90	\$18.90	\$0.00	\$86.98
	12/04/2028	\$59.85	\$9.90	\$18.90	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR LABORERS - ZONE 2	12/02/2024	\$47.00	\$9.90	\$18.90	\$0.00	\$75.80
	06/02/2025	\$48.50	\$9.90	\$18.90	\$0.00	\$77.30
	12/01/2025	\$50.00	\$9.90	\$18.90	\$0.00	\$78.80
	06/01/2026	\$51.55	\$9.90	\$18.90	\$0.00	\$80.35
	12/07/2026	\$53.05	\$9.90	\$18.90	\$0.00	\$81.85
	06/07/2027	\$54.65	\$9.90	\$18.90	\$0.00	\$83.45
	12/06/2027	\$56.25	\$9.90	\$18.90	\$0.00	\$85.05
	06/05/2028	\$57.93	\$9.90	\$18.90	\$0.00	\$86.73
	12/04/2028	\$59.60	\$9.90	\$18.90	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER LABORERS - ZONE 2	12/02/2024	\$46.25	\$9.90	\$18.90	\$0.00	\$75.05
	06/02/2025	\$47.75	\$9.90	\$18.90	\$0.00	\$76.55
	12/01/2025	\$49.25	\$9.90	\$18.90	\$0.00	\$78.05
	06/01/2026	\$50.80	\$9.90	\$18.90	\$0.00	\$79.60
	12/07/2026	\$52.30	\$9.90	\$18.90	\$0.00	\$81.10
	06/07/2027	\$53.90	\$9.90	\$18.90	\$0.00	\$82.70
	12/06/2027	\$55.50	\$9.90	\$18.90	\$0.00	\$84.30
	06/05/2028	\$57.18	\$9.90	\$18.90	\$0.00	\$85.98
	12/04/2028	\$58.85	\$9.90	\$18.90	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$78.11	\$10.08	\$21.66	\$0.00	\$109.85
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2024	\$83.69	\$10.08	\$24.29	\$0.00	\$118.06
For apprentice rates see "Apprentice- PILE DRIVER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

Apprentice - *ELECTRICIAN - Local 223*

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.01	\$12.00	\$0.60	\$0.00	\$32.61
2	45	\$22.51	\$12.00	\$0.68	\$0.00	\$35.19
3	50	\$25.01	\$12.00	\$0.75	\$0.00	\$37.76
4	55	\$27.51	\$12.00	\$0.89	\$0.00	\$40.40
5	60	\$30.01	\$12.00	\$1.04	\$0.00	\$43.05
6	65	\$32.51	\$12.00	\$1.20	\$0.00	\$45.71
7	70	\$35.01	\$12.00	\$1.37	\$0.00	\$48.38
8	75	\$37.52	\$12.00	\$1.55	\$0.00	\$51.07

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.90	\$12.25	\$0.63	\$0.00	\$33.78
2	45	\$23.51	\$12.25	\$0.71	\$0.00	\$36.47
3	50	\$26.13	\$12.25	\$0.78	\$0.00	\$39.16
4	55	\$28.74	\$12.25	\$0.91	\$0.00	\$41.90
5	60	\$31.35	\$12.25	\$1.04	\$0.00	\$44.64
6	65	\$33.96	\$12.25	\$1.18	\$0.00	\$47.39
7	70	\$36.58	\$12.25	\$1.33	\$0.00	\$50.16
8	75	\$39.19	\$12.25	\$1.49	\$0.00	\$52.93

Notes:

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86
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Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.81	\$16.03	\$0.00	\$0.00	\$48.84
2	55	\$36.09	\$16.03	\$20.21	\$0.00	\$72.33
3	65	\$42.65	\$16.03	\$20.21	\$0.00	\$78.89
4	70	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
5	80	\$52.50	\$16.03	\$20.21	\$0.00	\$88.74

Notes:
Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$51.78	\$15.30	\$16.40	\$0.00	\$83.48
	05/01/2025	\$53.22	\$15.30	\$16.40	\$0.00	\$84.92
	11/01/2025	\$54.51	\$15.30	\$16.40	\$0.00	\$86.21
	05/01/2026	\$55.95	\$15.30	\$16.40	\$0.00	\$87.65
	11/01/2026	\$57.24	\$15.30	\$16.40	\$0.00	\$88.94
	05/01/2027	\$58.67	\$15.30	\$16.40	\$0.00	\$90.37

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$53.37	\$15.30	\$16.40	\$0.00	\$85.07
	05/01/2025	\$54.82	\$15.30	\$16.40	\$0.00	\$86.52
	11/01/2025	\$56.12	\$15.30	\$16.40	\$0.00	\$87.82
	05/01/2026	\$57.57	\$15.30	\$16.40	\$0.00	\$89.27
	11/01/2026	\$58.87	\$15.30	\$16.40	\$0.00	\$90.57
	05/01/2027	\$60.32	\$15.30	\$16.40	\$0.00	\$92.02

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$25.37	\$15.30	\$16.40	\$0.00	\$57.07
	05/01/2025	\$26.22	\$15.30	\$16.40	\$0.00	\$57.92
	11/01/2025	\$26.98	\$15.30	\$16.40	\$0.00	\$58.68
	05/01/2026	\$27.83	\$15.30	\$16.40	\$0.00	\$59.53
	11/01/2026	\$28.59	\$15.30	\$16.40	\$0.00	\$60.29
	05/01/2027	\$29.44	\$15.30	\$16.40	\$0.00	\$61.14

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
<i>LOCAL 223</i>	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$45.96	\$15.55	\$16.50	\$0.00	\$78.01
	06/01/2025	\$47.02	\$15.55	\$16.50	\$0.00	\$79.07
	12/01/2025	\$48.19	\$15.55	\$16.50	\$0.00	\$80.24
	06/01/2026	\$49.25	\$15.55	\$16.50	\$0.00	\$81.30
	12/01/2026	\$50.43	\$15.55	\$16.50	\$0.00	\$82.48
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$27.01	\$9.90	\$18.46	\$0.00	\$55.37
	06/01/2025	\$28.09	\$9.90	\$18.46	\$0.00	\$56.45
	12/01/2025	\$28.09	\$9.90	\$18.46	\$0.00	\$56.45
	06/01/2026	\$29.21	\$9.90	\$18.46	\$0.00	\$57.57
	12/01/2026	\$29.21	\$9.90	\$18.46	\$0.00	\$57.57
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	03/01/2025	\$57.73	\$8.83	\$20.27	\$0.00	\$86.83
	09/01/2025	\$59.23	\$8.83	\$20.27	\$0.00	\$88.33
	03/01/2026	\$60.73	\$8.83	\$20.27	\$0.00	\$89.83
	09/01/2026	\$62.23	\$8.83	\$20.27	\$0.00	\$91.33
	03/01/2027	\$63.73	\$8.83	\$20.27	\$0.00	\$92.83

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone I

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
2	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
3	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
4	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
5	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
6	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
7	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52
8	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$26.65	\$8.83	\$1.76	\$0.00	\$37.24
2	45	\$26.65	\$8.83	\$1.76	\$0.00	\$37.24
3	55	\$32.58	\$8.83	\$3.52	\$0.00	\$44.93
4	55	\$32.58	\$8.83	\$3.52	\$0.00	\$44.93
5	70	\$41.46	\$8.83	\$16.75	\$0.00	\$67.04
6	70	\$41.46	\$8.83	\$16.75	\$0.00	\$67.04
7	80	\$47.38	\$8.83	\$18.51	\$0.00	\$74.72
8	80	\$47.38	\$8.83	\$18.51	\$0.00	\$74.72

Notes: Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$32.19
2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$34.64
3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$37.74
4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$40.19
5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$43.34
6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$45.78
7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$55.53
8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$57.98

Notes:

Apprentice to Journeyworker Ratio:1:3

HOISTING ENGINEER/CRANES/GRADALLS	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
OPERATING ENGINEERS LOCAL 4	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$31.37	\$0.00	\$0.00	\$0.00	\$31.37
2	60	\$34.22	\$15.55	\$16.50	\$0.00	\$66.27
3	65	\$37.07	\$15.55	\$16.50	\$0.00	\$69.12
4	70	\$39.92	\$15.55	\$16.50	\$0.00	\$71.97
5	75	\$42.77	\$15.55	\$16.50	\$0.00	\$74.82
6	80	\$45.62	\$15.55	\$16.50	\$0.00	\$77.67
7	85	\$48.48	\$15.55	\$16.50	\$0.00	\$80.53
8	90	\$51.33	\$15.55	\$16.50	\$0.00	\$83.38

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$32.08	\$0.00	\$0.00	\$0.00	\$32.08
2	60	\$35.00	\$15.55	\$16.50	\$0.00	\$67.05
3	65	\$37.91	\$15.55	\$16.50	\$0.00	\$69.96
4	70	\$40.83	\$15.55	\$16.50	\$0.00	\$72.88
5	75	\$43.75	\$15.55	\$16.50	\$0.00	\$75.80
6	80	\$46.66	\$15.55	\$16.50	\$0.00	\$78.71
7	85	\$49.58	\$15.55	\$16.50	\$0.00	\$81.63
8	90	\$52.50	\$15.55	\$16.50	\$0.00	\$84.55

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - B	10/01/2024	\$42.33	\$14.59	\$19.04	\$2.24	\$78.20
	04/01/2025	\$43.83	\$14.59	\$19.04	\$2.24	\$79.70
	10/01/2025	\$45.08	\$14.59	\$19.04	\$2.24	\$80.95
	04/01/2026	\$46.58	\$14.59	\$19.04	\$2.24	\$82.45

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 223	09/01/2024	\$50.02	\$12.00	\$17.72	\$0.00	\$79.74
	09/01/2025	\$52.25	\$12.25	\$18.61	\$0.00	\$83.11
	09/01/2026	\$54.72	\$12.50	\$19.56	\$0.00	\$86.78

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - B	10/01/2024	\$42.33	\$30.43	\$19.04	\$2.24	\$94.04
	04/01/2025	\$43.83	\$30.43	\$19.04	\$2.24	\$95.54
	10/01/2025	\$45.08	\$30.43	\$19.04	\$2.24	\$96.79
	04/01/2026	\$46.58	\$30.43	\$19.04	\$2.24	\$98.29

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (TESTING AND BALANCING - WATER) PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.70	\$9.90	\$18.36	\$0.00	\$67.96
	06/01/2025	\$41.09	\$9.90	\$18.36	\$0.00	\$69.35
	12/01/2025	\$42.47	\$9.90	\$18.36	\$0.00	\$70.73
	06/01/2026	\$43.91	\$9.90	\$18.36	\$0.00	\$72.17
	12/01/2026	\$45.35	\$9.90	\$18.36	\$0.00	\$73.61
	06/01/2027	\$46.80	\$9.90	\$18.36	\$0.00	\$75.06
	12/01/2027	\$48.25	\$9.90	\$18.36	\$0.00	\$76.51
	06/01/2028	\$49.75	\$9.90	\$18.36	\$0.00	\$78.01
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.70	\$9.90	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.09	\$9.90	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.47	\$9.90	\$18.46	\$0.00	\$70.83
	06/01/2026	\$43.91	\$9.90	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.35	\$9.90	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	09/01/2024	\$51.23	\$14.75	\$19.61	\$0.00	\$85.59
	09/01/2025	\$54.31	\$14.75	\$19.61	\$0.00	\$88.67
	09/01/2026	\$57.38	\$14.75	\$19.61	\$0.00	\$91.74

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Southern MA

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.62	\$14.75	\$14.32	\$0.00	\$54.69
2	60	\$30.74	\$14.75	\$15.37	\$0.00	\$60.86
3	70	\$35.86	\$14.75	\$16.43	\$0.00	\$67.04
4	80	\$40.98	\$14.75	\$17.49	\$0.00	\$73.22

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.16	\$14.75	\$14.32	\$0.00	\$56.23
2	60	\$32.59	\$14.75	\$15.37	\$0.00	\$62.71
3	70	\$38.02	\$14.75	\$16.43	\$0.00	\$69.20
4	80	\$43.45	\$14.75	\$17.49	\$0.00	\$75.69

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2021	\$42.46	\$7.70	\$17.10	\$0.00	\$67.26
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 37

Effective Date - 03/16/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$29.72	\$7.70	\$17.10	\$0.00	\$54.52
2	75	\$31.85	\$7.70	\$17.10	\$0.00	\$56.65
3	80	\$33.97	\$7.70	\$17.10	\$0.00	\$58.77
4	85	\$36.09	\$7.70	\$17.10	\$0.00	\$60.89
5	90	\$38.21	\$7.70	\$17.10	\$0.00	\$63.01
6	95	\$40.34	\$7.70	\$17.10	\$0.00	\$65.14

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
<i>LABORERS - ZONE 2</i>	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

LABORER	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
<i>LABORERS - ZONE 2</i>	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.37	\$9.90	\$18.36	\$0.00	\$51.63
2	70	\$27.27	\$9.90	\$18.36	\$0.00	\$55.53
3	80	\$31.16	\$9.90	\$18.36	\$0.00	\$59.42
4	90	\$35.06	\$9.90	\$18.36	\$0.00	\$63.32

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.20	\$9.90	\$18.36	\$0.00	\$52.46
2	70	\$28.24	\$9.90	\$18.36	\$0.00	\$56.50
3	80	\$32.27	\$9.90	\$18.36	\$0.00	\$60.53
4	90	\$36.31	\$9.90	\$18.36	\$0.00	\$64.57

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2024	\$38.95	\$9.90	\$18.46	\$0.00	\$67.31
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2025	\$40.34	\$9.90	\$18.46	\$0.00	\$68.70
	12/01/2025	\$41.72	\$9.90	\$18.46	\$0.00	\$70.08
	06/01/2026	\$43.16	\$9.90	\$18.46	\$0.00	\$71.52
	12/01/2026	\$44.60	\$9.90	\$18.46	\$0.00	\$72.96

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.37	\$9.90	\$18.46	\$0.00	\$51.73
2	70	\$27.27	\$9.90	\$18.46	\$0.00	\$55.63
3	80	\$31.16	\$9.90	\$18.46	\$0.00	\$59.52
4	90	\$35.06	\$9.90	\$18.46	\$0.00	\$63.42

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.20	\$9.90	\$18.46	\$0.00	\$52.56
2	70	\$28.24	\$9.90	\$18.46	\$0.00	\$56.60
3	80	\$32.27	\$9.90	\$18.46	\$0.00	\$60.63
4	90	\$36.31	\$9.90	\$18.46	\$0.00	\$64.67

Notes:

Apprentice to Journeyworker Ratio:1:5

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	12/02/2024	\$39.04	\$9.90	\$18.42	\$0.00	\$67.36
	06/02/2025	\$40.43	\$9.90	\$18.42	\$0.00	\$68.75
	12/01/2025	\$41.81	\$9.90	\$18.42	\$0.00	\$70.13
	06/01/2026	\$43.25	\$9.90	\$18.42	\$0.00	\$71.57
	12/07/2026	\$44.69	\$9.90	\$18.42	\$0.00	\$73.01
	06/07/2027	\$46.14	\$9.90	\$18.42	\$0.00	\$74.46
	12/06/2027	\$47.59	\$9.90	\$18.42	\$0.00	\$75.91
	06/05/2028	\$49.09	\$9.90	\$18.42	\$0.00	\$77.41
	12/04/2028	\$50.59	\$9.90	\$18.42	\$0.00	\$78.91
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2024	\$38.95	\$9.90	\$18.36	\$0.00	\$67.21
	06/01/2025	\$40.34	\$9.90	\$18.36	\$0.00	\$68.60
	12/01/2025	\$41.72	\$9.90	\$18.36	\$0.00	\$69.98
	06/01/2026	\$43.16	\$9.90	\$18.36	\$0.00	\$71.42
	12/01/2026	\$44.60	\$9.90	\$18.36	\$0.00	\$72.86
	06/01/2027	\$46.05	\$9.90	\$18.36	\$0.00	\$74.31
	12/01/2027	\$47.50	\$9.90	\$18.36	\$0.00	\$75.76
	06/01/2028	\$49.00	\$9.90	\$18.36	\$0.00	\$77.26
	12/01/2028	\$50.50	\$9.90	\$18.36	\$0.00	\$78.76
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2025	\$50.36	\$11.49	\$21.62	\$0.00	\$83.47
	08/01/2025	\$52.08	\$11.49	\$21.62	\$0.00	\$85.19
	02/01/2026	\$53.16	\$11.49	\$21.62	\$0.00	\$86.27
	08/01/2026	\$54.92	\$11.49	\$21.62	\$0.00	\$88.03
	02/01/2027	\$56.04	\$11.49	\$21.62	\$0.00	\$89.15

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$11.49	\$21.62	\$0.00	\$58.29
2	60	\$30.22	\$11.49	\$21.62	\$0.00	\$63.33
3	70	\$35.25	\$11.49	\$21.62	\$0.00	\$68.36
4	80	\$40.29	\$11.49	\$21.62	\$0.00	\$73.40
5	90	\$45.32	\$11.49	\$21.62	\$0.00	\$78.43

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.04	\$11.49	\$21.62	\$0.00	\$59.15
2	60	\$31.25	\$11.49	\$21.62	\$0.00	\$64.36
3	70	\$36.46	\$11.49	\$21.62	\$0.00	\$69.57
4	80	\$41.66	\$11.49	\$21.62	\$0.00	\$74.77
5	90	\$46.87	\$11.49	\$21.62	\$0.00	\$79.98

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2025	\$65.82	\$11.49	\$23.56	\$0.00	\$100.87
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2025	\$67.97	\$11.49	\$23.56	\$0.00	\$103.02
	02/01/2026	\$69.32	\$11.49	\$23.56	\$0.00	\$104.37
	08/01/2026	\$71.52	\$11.49	\$23.56	\$0.00	\$106.57
	02/01/2027	\$72.92	\$11.49	\$23.56	\$0.00	\$107.97

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.91	\$11.49	\$23.56	\$0.00	\$67.96
2	60	\$39.49	\$11.49	\$23.56	\$0.00	\$74.54
3	70	\$46.07	\$11.49	\$23.56	\$0.00	\$81.12
4	80	\$52.66	\$11.49	\$23.56	\$0.00	\$87.71
5	90	\$59.24	\$11.49	\$23.56	\$0.00	\$94.29

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.99	\$11.49	\$23.56	\$0.00	\$69.04
2	60	\$40.78	\$11.49	\$23.56	\$0.00	\$75.83
3	70	\$47.58	\$11.49	\$23.56	\$0.00	\$82.63
4	80	\$54.38	\$11.49	\$23.56	\$0.00	\$89.43
5	90	\$61.17	\$11.49	\$23.56	\$0.00	\$96.22

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2)	01/06/2025	\$45.09	\$10.08	\$21.47	\$0.00	\$76.64
<i>MILLWRIGHTS LOCAL 1121 - Zone 2</i>	01/05/2026	\$47.42	\$10.08	\$21.47	\$0.00	\$78.97

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 01/06/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$24.80	\$10.08	\$5.50	\$0.00	\$40.38
2	65	\$29.31	\$10.08	\$6.50	\$0.00	\$45.89
3	75	\$33.82	\$10.08	\$18.97	\$0.00	\$62.87
4	85	\$38.33	\$10.08	\$19.97	\$0.00	\$68.38

Effective Date - 01/05/2026

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.08	\$10.08	\$5.50	\$0.00	\$41.66
2	65	\$30.82	\$10.08	\$6.50	\$0.00	\$47.40
3	75	\$35.57	\$10.08	\$18.97	\$0.00	\$64.62
4	85	\$40.31	\$10.08	\$19.97	\$0.00	\$70.36

Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66)
Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:4

MORTAR MIXER LABORERS - ZONE 2	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2024	\$25.37	\$15.30	\$16.40	\$0.00	\$57.07
	06/01/2025	\$25.97	\$15.30	\$16.40	\$0.00	\$57.67
	12/01/2025	\$26.63	\$15.30	\$16.40	\$0.00	\$58.33
	06/01/2026	\$27.22	\$15.30	\$16.40	\$0.00	\$58.92
	12/01/2026	\$27.89	\$15.30	\$16.40	\$0.00	\$59.59

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2024	\$31.08	\$15.30	\$16.40	\$0.00	\$62.78
	06/01/2025	\$31.80	\$15.30	\$16.40	\$0.00	\$63.50
	12/01/2025	\$32.60	\$15.30	\$16.40	\$0.00	\$64.30
	06/01/2026	\$33.32	\$15.30	\$16.40	\$0.00	\$65.02
	12/01/2026	\$34.12	\$15.30	\$16.40	\$0.00	\$65.82

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36
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Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2025	\$49.36	\$9.95	\$23.95	\$0.00	\$83.26
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* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used.*PAINTERS LOCAL 35 - ZONE 2*

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.68	\$9.95	\$0.00	\$0.00	\$34.63
2	55	\$27.15	\$9.95	\$6.66	\$0.00	\$43.76
3	60	\$29.62	\$9.95	\$7.26	\$0.00	\$46.83
4	65	\$32.08	\$9.95	\$7.87	\$0.00	\$49.90
5	70	\$34.55	\$9.95	\$20.32	\$0.00	\$64.82
6	75	\$37.02	\$9.95	\$20.93	\$0.00	\$67.90
7	80	\$39.49	\$9.95	\$21.53	\$0.00	\$70.97
8	90	\$44.42	\$9.95	\$22.74	\$0.00	\$77.11

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER (SPRAY OR SANDBLAST, REPAINT) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$47.42	\$9.95	\$23.95	\$0.00	\$81.32

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.71	\$9.95	\$0.00	\$0.00	\$33.66
2	55	\$26.08	\$9.95	\$6.66	\$0.00	\$42.69
3	60	\$28.45	\$9.95	\$7.26	\$0.00	\$45.66
4	65	\$30.82	\$9.95	\$7.87	\$0.00	\$48.64
5	70	\$33.19	\$9.95	\$20.32	\$0.00	\$63.46
6	75	\$35.57	\$9.95	\$20.93	\$0.00	\$66.45
7	80	\$37.94	\$9.95	\$21.53	\$0.00	\$69.42
8	90	\$42.68	\$9.95	\$22.74	\$0.00	\$75.37

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) * <i>* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$47.96	\$9.95	\$23.95	\$0.00	\$81.86
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Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.98	\$9.95	\$0.00	\$0.00	\$33.93
2	55	\$26.38	\$9.95	\$6.66	\$0.00	\$42.99
3	60	\$28.78	\$9.95	\$7.26	\$0.00	\$45.99
4	65	\$31.17	\$9.95	\$7.87	\$0.00	\$48.99
5	70	\$33.57	\$9.95	\$20.32	\$0.00	\$63.84
6	75	\$35.97	\$9.95	\$20.93	\$0.00	\$66.85
7	80	\$38.37	\$9.95	\$21.53	\$0.00	\$69.85
8	90	\$43.16	\$9.95	\$22.74	\$0.00	\$75.85

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$46.02	\$9.95	\$23.95	\$0.00	\$79.92
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Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.01	\$9.95	\$0.00	\$0.00	\$32.96
2	55	\$25.31	\$9.95	\$6.66	\$0.00	\$41.92
3	60	\$27.61	\$9.95	\$7.26	\$0.00	\$44.82
4	65	\$29.91	\$9.95	\$7.87	\$0.00	\$47.73
5	70	\$32.21	\$9.95	\$20.32	\$0.00	\$62.48
6	75	\$34.52	\$9.95	\$20.93	\$0.00	\$65.40
7	80	\$36.82	\$9.95	\$21.53	\$0.00	\$68.30
8	90	\$41.42	\$9.95	\$22.74	\$0.00	\$74.11

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	12/01/2024	\$38.95	\$9.90	\$18.46	\$0.00	\$67.31
<i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2025	\$40.34	\$9.90	\$18.46	\$0.00	\$68.70
	12/01/2025	\$41.72	\$9.90	\$18.46	\$0.00	\$70.08
	06/01/2026	\$43.16	\$9.90	\$18.46	\$0.00	\$71.52
	12/01/2026	\$44.60	\$9.90	\$18.46	\$0.00	\$72.96
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PANEL & PICKUP TRUCKS DRIVER	01/01/2025	\$39.78	\$15.57	\$20.17	\$0.00	\$75.52
<i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$76.52
	12/01/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$78.13
	01/01/2026	\$40.78	\$16.17	\$21.78	\$0.00	\$78.73
	06/01/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$79.73
	12/01/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$81.47
	01/01/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
<i>PILE DRIVER LOCAL 56 (ZONE 1)</i>						
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER	08/01/2024	\$55.79	\$10.08	\$24.29	\$0.00	\$90.16
<i>PILE DRIVER LOCAL 56 (ZONE 1)</i>						

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.11	\$10.08	\$2.53	\$0.00	\$37.72
2	55	\$30.68	\$10.08	\$5.07	\$0.00	\$45.83
3	70	\$39.05	\$10.08	\$19.22	\$0.00	\$68.35
4	80	\$44.63	\$10.08	\$21.76	\$0.00	\$76.47

Notes:
 % Indentured BEFORE 8/1/20; 50/60/70/75/80/80/90/90
 Apprenticeship to Journeyworker Ratio: 1/2 \$67.27/ 3 \$67.84/ 4 \$73.42/ 5 \$76.21/ 6 \$79.00/ 7 & 8 \$84.58

PIPELAYER LABORERS - ZONE 2	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

PLUMBER & PIPEFITTER PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PLUMBER/PIPEFITTER - Local 51

Effective Date - 08/26/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$21.00	\$10.15	\$2.50	\$0.00	\$33.65
2	50	\$26.25	\$10.15	\$2.50	\$0.00	\$38.90
3	60	\$31.49	\$10.15	\$8.90	\$0.00	\$50.54
4	70	\$36.74	\$10.15	\$14.24	\$0.00	\$61.13
5	80	\$41.99	\$10.15	\$17.80	\$0.00	\$69.94

Effective Date - 08/25/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$22.10	\$10.15	\$2.50	\$0.00	\$34.75
2	50	\$27.62	\$10.15	\$2.50	\$0.00	\$40.27
3	60	\$33.14	\$10.15	\$8.90	\$0.00	\$52.19
4	70	\$38.67	\$10.15	\$14.24	\$0.00	\$63.06
5	80	\$44.19	\$10.15	\$17.80	\$0.00	\$72.14

Notes:
Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

Apprentice to Journeyworker Ratio:1:3

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 51	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR LABORERS - ZONE 2	12/01/2024	\$39.70	\$9.90	\$17.54	\$0.00	\$67.14
	06/01/2025	\$41.09	\$9.90	\$17.54	\$0.00	\$68.53
	12/01/2025	\$42.47	\$9.90	\$17.54	\$0.00	\$69.91
	06/01/2026	\$43.91	\$9.90	\$17.54	\$0.00	\$71.35
	12/01/2026	\$45.35	\$9.90	\$17.54	\$0.00	\$72.79
	06/01/2027	\$46.80	\$9.90	\$17.54	\$0.00	\$74.24
	12/01/2027	\$48.25	\$9.90	\$17.54	\$0.00	\$75.69
	06/01/2028	\$49.75	\$9.90	\$17.54	\$0.00	\$77.19
	12/01/2028	\$51.25	\$9.90	\$17.54	\$0.00	\$78.69

For apprentice rates see "Apprentice- LABORER"

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.95	\$9.90	\$18.36	\$0.00	\$68.21
	06/01/2025	\$41.34	\$9.90	\$18.36	\$0.00	\$69.60
	12/01/2025	\$42.72	\$9.90	\$18.36	\$0.00	\$70.98
	06/01/2026	\$44.16	\$9.90	\$18.36	\$0.00	\$72.42
	12/01/2026	\$45.60	\$9.90	\$18.36	\$0.00	\$73.86
	06/01/2027	\$47.05	\$9.90	\$18.36	\$0.00	\$75.31
	12/01/2027	\$48.50	\$9.90	\$18.36	\$0.00	\$76.76
	06/01/2028	\$50.00	\$9.90	\$18.36	\$0.00	\$78.26
	12/01/2028	\$51.50	\$9.90	\$18.36	\$0.00	\$79.76
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.95	\$9.65	\$18.46	\$0.00	\$68.06
	06/01/2025	\$41.34	\$9.65	\$18.46	\$0.00	\$69.45
	12/01/2025	\$42.72	\$9.65	\$18.46	\$0.00	\$70.83
	06/01/2026	\$44.16	\$9.65	\$18.46	\$0.00	\$72.27
	12/01/2026	\$45.60	\$9.65	\$18.46	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$36.67	\$15.55	\$16.50	\$0.00	\$68.72
	06/01/2025	\$37.52	\$15.55	\$16.50	\$0.00	\$69.57
	12/01/2025	\$38.47	\$15.55	\$16.50	\$0.00	\$70.52
	06/01/2026	\$39.33	\$15.55	\$16.50	\$0.00	\$71.38
	12/01/2026	\$40.28	\$15.55	\$16.50	\$0.00	\$72.33
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 653 - Southeastern Concrete (Weymouth)</i>	08/01/2023	\$25.00	\$13.91	\$6.90	\$0.00	\$45.81
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Last Modified: 04/18/2025 at 12:56PM EDT

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$39.20	\$9.90	\$18.36	\$0.00	\$67.46
	06/01/2025	\$40.59	\$9.90	\$18.36	\$0.00	\$68.85
	12/01/2025	\$41.97	\$9.90	\$18.36	\$0.00	\$70.23
	06/01/2026	\$43.41	\$9.90	\$18.36	\$0.00	\$71.67
	12/01/2026	\$44.85	\$9.90	\$18.36	\$0.00	\$73.11
	06/01/2027	\$46.30	\$9.90	\$18.36	\$0.00	\$74.56
	12/01/2027	\$47.75	\$9.90	\$18.36	\$0.00	\$76.01
	06/01/2028	\$49.25	\$9.90	\$18.36	\$0.00	\$77.51
	12/01/2028	\$50.75	\$9.90	\$18.36	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 33</i>	02/01/2025	\$52.03	\$13.28	\$21.70	\$0.00	\$87.01
	08/01/2025	\$53.53	\$13.28	\$21.70	\$0.00	\$88.51
	02/01/2026	\$54.78	\$13.28	\$21.70	\$0.00	\$89.76

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.02	\$13.28	\$15.55	\$0.00	\$54.85
2	60	\$31.22	\$13.28	\$21.70	\$0.00	\$66.20
3	65	\$33.82	\$13.28	\$21.70	\$0.00	\$68.80
4	75	\$39.02	\$13.28	\$21.70	\$0.00	\$74.00
5	85	\$44.23	\$13.28	\$21.70	\$0.00	\$79.21

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.77	\$13.28	\$15.55	\$0.00	\$55.60
2	60	\$32.12	\$13.28	\$21.70	\$0.00	\$67.10
3	65	\$34.79	\$13.28	\$21.70	\$0.00	\$69.77
4	75	\$40.15	\$13.28	\$21.70	\$0.00	\$75.13
5	85	\$45.50	\$13.28	\$21.70	\$0.00	\$80.48

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 33</i>	02/01/2025	\$52.28	\$13.28	\$21.70	\$0.00	\$87.26
	08/01/2025	\$53.78	\$13.28	\$21.70	\$0.00	\$88.76
	02/01/2026	\$55.03	\$13.28	\$21.70	\$0.00	\$90.01

For apprentice rates see "Apprentice- ROOFER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 17 - B	10/01/2024	\$42.33	\$14.59	\$19.04	\$2.24	\$78.20
	04/01/2025	\$43.83	\$14.59	\$19.04	\$2.24	\$79.70
	10/01/2025	\$45.08	\$14.59	\$19.04	\$2.24	\$80.95
	04/01/2026	\$46.58	\$14.59	\$19.04	\$2.24	\$82.45

Apprentice - SHEET METAL WORKER - Local 17-B

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.93	\$14.59	\$4.18	\$1.09	\$36.79
2	45	\$19.05	\$14.59	\$4.71	\$1.17	\$39.52
3	50	\$21.17	\$14.59	\$11.84	\$1.45	\$49.05
4	55	\$23.28	\$14.59	\$11.84	\$1.52	\$51.23
5	60	\$25.40	\$14.59	\$15.53	\$1.64	\$57.16
6	65	\$27.51	\$14.59	\$15.84	\$1.71	\$59.65
7	70	\$29.63	\$14.59	\$16.15	\$1.78	\$62.15
8	75	\$31.75	\$14.59	\$16.45	\$1.86	\$64.65
9	80	\$33.86	\$14.59	\$16.76	\$1.93	\$67.14
10	85	\$35.98	\$14.59	\$17.07	\$2.00	\$69.64

Effective Date - 04/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.53	\$14.59	\$4.18	\$1.09	\$37.39
2	45	\$19.72	\$14.59	\$4.71	\$1.17	\$40.19
3	50	\$21.92	\$14.59	\$11.84	\$1.45	\$49.80
4	55	\$24.11	\$14.59	\$11.84	\$1.52	\$52.06
5	60	\$26.30	\$14.59	\$15.53	\$1.64	\$58.06
6	65	\$28.49	\$14.59	\$15.84	\$1.71	\$60.63
7	70	\$30.68	\$14.59	\$16.15	\$1.78	\$63.20
8	75	\$32.87	\$14.59	\$16.45	\$1.86	\$65.77
9	80	\$35.06	\$14.59	\$16.76	\$1.93	\$68.34
10	85	\$37.26	\$14.59	\$17.07	\$2.00	\$70.92

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.53	\$15.57	\$20.17	\$0.00	\$76.27
	06/01/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$77.27
	12/01/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$78.88
	01/01/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$79.48
	06/01/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$80.48
	12/01/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$82.22
	01/01/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$82.82
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2</i>	03/01/2025	\$64.93	\$11.51	\$23.80	\$0.00	\$100.24

Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$22.73	\$11.51	\$13.07	\$0.00	\$47.31
2	40	\$25.97	\$11.51	\$13.90	\$0.00	\$51.38
3	45	\$29.22	\$11.51	\$14.72	\$0.00	\$55.45
4	50	\$32.47	\$11.51	\$15.55	\$0.00	\$59.53
5	55	\$35.71	\$11.51	\$16.38	\$0.00	\$63.60
6	60	\$38.96	\$11.51	\$17.20	\$0.00	\$67.67
7	65	\$42.20	\$11.51	\$18.03	\$0.00	\$71.74
8	70	\$45.45	\$11.51	\$18.85	\$0.00	\$75.81
9	75	\$48.70	\$11.51	\$19.68	\$0.00	\$79.89
10	80	\$51.94	\$11.51	\$20.50	\$0.00	\$83.95

Notes: Apprentice entered prior 9/30/10:
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2024	\$40.69	\$11.75	\$14.53	\$0.00	\$66.97
	09/01/2025	\$42.52	\$12.00	\$15.30	\$0.00	\$69.82
	09/01/2026	\$44.41	\$12.25	\$16.09	\$0.00	\$72.75
	09/01/2027	\$46.51	\$12.50	\$16.93	\$0.00	\$75.94

Last Modified: 04/18/2025 at 12:56PM EDT

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: See Electrician Apprentice Wages
 Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages
Apprentice to Journeyworker Ratio:2:3***

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2025	\$64.74	\$11.49	\$23.59	\$0.00	\$99.82
	08/01/2025	\$66.89	\$11.49	\$23.59	\$0.00	\$101.97
	02/01/2026	\$68.24	\$11.49	\$23.59	\$0.00	\$103.32
	08/01/2026	\$70.44	\$11.49	\$23.59	\$0.00	\$105.52
	02/01/2027	\$71.84	\$11.49	\$23.59	\$0.00	\$106.92

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.37	\$11.49	\$23.59	\$0.00	\$67.45
2	60	\$38.84	\$11.49	\$23.59	\$0.00	\$73.92
3	70	\$45.32	\$11.49	\$23.59	\$0.00	\$80.40
4	80	\$51.79	\$11.49	\$23.59	\$0.00	\$86.87
5	90	\$58.27	\$11.49	\$23.59	\$0.00	\$93.35

Effective Date - 08/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$33.45	\$11.49	\$23.59	\$0.00	\$68.53
2	60	\$40.13	\$11.49	\$23.59	\$0.00	\$75.21
3	70	\$46.82	\$11.49	\$23.59	\$0.00	\$81.90
4	80	\$53.51	\$11.49	\$23.59	\$0.00	\$88.59
5	90	\$60.20	\$11.49	\$23.59	\$0.00	\$95.28

Notes:
Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$50.20	\$9.90	\$19.05	\$0.00	\$79.15
	06/01/2025	\$51.70	\$9.90	\$19.05	\$0.00	\$80.65
	12/01/2025	\$53.20	\$9.90	\$19.05	\$0.00	\$82.15
	06/01/2026	\$54.75	\$9.90	\$19.05	\$0.00	\$83.70
	12/01/2026	\$56.25	\$9.90	\$19.05	\$0.00	\$85.20

For apprentice rates see "Apprentice- LABORER"

Last Modified: 04/18/2025 at 12:56PM EDT

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.32	\$9.90	\$19.05	\$0.00	\$75.27
	06/01/2025	\$47.82	\$9.90	\$19.05	\$0.00	\$76.77
	12/01/2025	\$49.32	\$9.90	\$19.05	\$0.00	\$78.27
	06/01/2026	\$50.87	\$9.90	\$19.05	\$0.00	\$79.82
	12/01/2026	\$52.37	\$9.90	\$19.05	\$0.00	\$81.32
For apprentice rates see "Apprentice- LABORER"						
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.20	\$9.90	\$19.05	\$0.00	\$75.15
	06/01/2025	\$47.70	\$9.90	\$19.05	\$0.00	\$76.65
	12/01/2025	\$49.20	\$9.90	\$19.05	\$0.00	\$78.15
	06/01/2026	\$50.75	\$9.90	\$19.05	\$0.00	\$79.70
	12/01/2026	\$52.25	\$9.90	\$19.05	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.40	\$15.55	\$16.50	\$0.00	\$88.45
	06/01/2025	\$57.68	\$15.55	\$16.50	\$0.00	\$89.73
	12/01/2025	\$59.12	\$15.55	\$16.50	\$0.00	\$91.17
	06/01/2026	\$60.40	\$15.55	\$16.50	\$0.00	\$92.45
	12/01/2026	\$61.84	\$15.55	\$16.50	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.82	\$15.57	\$20.17	\$0.00	\$76.56
	06/01/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$77.56
	12/01/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$79.17
	01/01/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$79.77
	06/01/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$80.77
	12/01/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$82.51
	01/01/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$83.11
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$58.43	\$9.90	\$19.50	\$0.00	\$87.83
	06/01/2025	\$59.93	\$9.90	\$19.50	\$0.00	\$89.33
	12/01/2025	\$61.43	\$9.90	\$19.50	\$0.00	\$90.83
	06/01/2026	\$62.98	\$9.90	\$19.50	\$0.00	\$92.38
	12/01/2026	\$64.48	\$9.90	\$19.50	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$60.43	\$9.90	\$19.50	\$0.00	\$89.83
	06/01/2025	\$61.93	\$9.90	\$19.50	\$0.00	\$91.33
	12/01/2025	\$63.43	\$9.90	\$19.50	\$0.00	\$92.83
	06/01/2026	\$64.98	\$9.90	\$19.50	\$0.00	\$94.38
	12/01/2026	\$66.48	\$9.90	\$19.50	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$50.50	\$9.90	\$19.50	\$0.00	\$79.90
	06/01/2025	\$52.00	\$9.90	\$19.50	\$0.00	\$81.40
	12/01/2025	\$53.50	\$9.90	\$19.50	\$0.00	\$82.90
	06/01/2026	\$55.05	\$9.90	\$19.50	\$0.00	\$84.45
	12/01/2026	\$56.55	\$9.90	\$19.50	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$52.50	\$9.90	\$19.50	\$0.00	\$81.90
	06/01/2025	\$54.00	\$9.90	\$19.50	\$0.00	\$83.40
	12/01/2025	\$55.50	\$9.90	\$19.50	\$0.00	\$84.90
	06/01/2026	\$57.05	\$9.90	\$19.50	\$0.00	\$86.45
	12/01/2026	\$58.55	\$9.90	\$19.50	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2024	\$40.61	\$9.65	\$17.70	\$0.00	\$67.96
	06/01/2025	\$42.00	\$9.65	\$17.70	\$0.00	\$69.35
	12/01/2025	\$43.38	\$9.65	\$17.70	\$0.00	\$70.73
	06/01/2026	\$44.82	\$9.65	\$17.70	\$0.00	\$72.17
	12/01/2026	\$46.26	\$9.65	\$17.70	\$0.00	\$73.61
	06/01/2027	\$47.71	\$9.65	\$17.70	\$0.00	\$75.06
	12/01/2027	\$49.16	\$9.65	\$17.70	\$0.00	\$76.51
	06/01/2028	\$50.66	\$9.65	\$17.70	\$0.00	\$78.01
	12/01/2028	\$52.16	\$9.65	\$17.70	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2024	\$39.20	\$9.90	\$18.46	\$0.00	\$67.56
	06/01/2025	\$40.59	\$9.90	\$18.46	\$0.00	\$68.95
	12/01/2025	\$41.97	\$9.90	\$18.46	\$0.00	\$70.33
	06/01/2026	\$43.41	\$9.90	\$18.46	\$0.00	\$71.77
	12/01/2026	\$44.85	\$9.90	\$18.46	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$57.03	\$15.55	\$16.50	\$0.00	\$89.08
	06/01/2025	\$58.33	\$15.55	\$16.50	\$0.00	\$90.38
	12/01/2025	\$59.78	\$15.55	\$16.50	\$0.00	\$91.83
	06/01/2026	\$61.08	\$15.55	\$16.50	\$0.00	\$93.13
	12/01/2026	\$62.53	\$15.55	\$16.50	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/26/2024	\$52.49	\$10.80	\$21.40	\$0.00	\$84.69
	08/25/2025	\$55.24	\$10.80	\$21.40	\$0.00	\$87.44
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

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Additional Apprentice Information:

All apprentices must be registered with the Division of Apprenticeship Training (DAS) in accordance with M.G.L. c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L. c. 149, §§ 26-27D. Apprentice ratios are established by DAS pursuant to M.G.L. c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements (CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate. Parties having questions regarding what ratio to use should contact DAS.

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DIVISION 2

SPECIAL PROVISIONS

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**SPECIAL PROVISIONS/SUPPLEMENTAL GENERAL CONDITIONS FOR
FEDERALLY OBLIGATED AVIATION PROJECTS**

PART A – PROJECT SPECIFIC CLAUSES

1. **DBE DIRECTORY.** Although Federal DBE Requirements and Massachusetts MBE/WBE Requirements are not required for this project, it is the policy of the Nantucket Memorial Airport Commission at the Nantucket Memorial Airport to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying to perform work under this solicitation, regardless of business size or ownership.

For reference purposes only, the latest edition of the DBE Directory can be obtained from the Commonwealth of Massachusetts Supplier Diversity Office at the following address:

<https://www.sdo.osd.state.ma.us/BusinessDirectory/BusinessDirectory.aspx>

Contractors that do not have access to the internet may obtain a copy by contacting the Engineer.

2. **WAGE RATES.**

U.S. Department of Labor Davis-Bacon wage rates ARE NOT APPLICABLE to this Contract and not included in the Contract Documents.

However, the **Commonwealth of Massachusetts Executive Office of Labor and Workforce Development Department of Labor Standards Prevailing Wages shall apply** and are included in Division 1, State Prevailing Wage Schedule.

It is the Contractor's responsibility to review the wages rates and labor classifications included within the Contract Documents. If it appears that a labor classification is required but not provided, the Contractor shall notify the Engineer prior to the start of construction.

3. **CONTACT WITH THE AIRPORT.** From the time of advertising until the actual bid opening for this Contract, the only contact with the Airport will be as described in the Invitation for Bids.
4. **SUSPENSION OF WORK.** The Contractor is hereby notified that in the absence of the Engineer, the Airport's Safety Officer and the Airport Operator shall each have the authority to suspend work when they determine that a serious safety or environmental violation exists on the job site. The period of time when work is suspended due to a serious safety or environmental violation will not be justification for an extension of time or the award of damages to the Contractor.
5. **CONTRACT DOCUMENTS.** The Contractor's attention is directed to the following documents that make up the Contract Documents and are effective for this Contract:

Table of Contents
Invitation to Bid
Instructions to Bidders
Bid Proposal
Bid Bond
ALL MJ Bidding Requirement and Proposal Forms (see Bidder's Certification Form)

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

Award of Contract and Execution of Contract Bonds
Contract with Insurance Provisions
Performance Bond
Payment Bond
Notice of Award
Notice to Proceed
Contractor's Guaranty
ALL MJ Contract Execution Forms

Division 1 – Project Contract Specifications

FAA General Provisions
FAA Contract Provision Guidelines for Obligated Sponsors and Airport Improvement Program Projects (**refer to applicable provisions**)
Reference Documents: **NOT INCLUDED**
US Department of Labor – Davis-Bacon Wage Rates **NOT INCLUDED**
[Massachusetts State Prevailing Wage Rates](#)

Division 2 - Special Provisions:

Special Provisions/Supplemental General Provisions
Construction Safety and Phasing Plan
AC 150/5370-2G - Operational Safety on Airports During Construction (included but REFERENCE ONLY)
[Geotechnical Report](#)

Permits:

[NONE for this Contract](#)

Division 3 - FAA – Technical Specifications

Plans

Addendums, Request for Information responses, and Field Issued Sketches

6. **DAILY LIST OF WORKERS.** During the on-site construction work, the Prime Contractor shall instruct all their employees, as well as all employees of all subcontractors and other on-site personnel, to sign in each day with the gate guard or at the Contractor's office trailer. In addition, the Contractor shall provide the Resident Project Representative with a daily list of workers and equipment on site.
7. **UTILITIES.** The Contractor shall coordinate with all utilities the service the Airport and surrounding area. No disturbance of utility facilities is anticipated as part of this project.
8. **PERMIT AND REGULATION COMPLIANCE.** The Contractor shall comply with all project permits, general permits, state laws, and state and local regulations. Any fines assessed against the Airport and related expenses due to non-compliance with the permits, laws, rules, and regulations cited in the Contract Documents and caused by the Contractor and their personnel, Subcontractors and Vendors shall be paid for by the Contractor.

For permit requirements refer to copies of the permits in Division 2 - Special Provisions of the Contract Documents, as applicable.

9. **WORK AREAS.** In order to enhance safety during construction and minimize the impacts on

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

Airport operations caused by construction, the Project **may have been divided into phases or** different work areas as required for project execution. For additional detail of the phases, work zones and restrictions, please refer to:

- a) Project Plan Set: Refer to project phasing and work zone plans, notes and details.
- b) CSPP Drawings: The CSPP drawings as included in the contract drawings.
- c) Construction Safety and Phasing Plan (CSPP): Refer to the Construction Safety and Phasing Plan in Division 2 of the Contract Documents for additional detail, as applicable.
- d) Contractor Provided Safety Plan Compliance Document (SPCD): The SPCD, as reviewed and approved by the Engineer, shall become part of the work area restrictions, as applicable.

- 10. WORK AREA REQUIREMENTS.** A general outline of the safety precautions, pre-work requirements and administrative requirements required prior to being allowed to work in any of the specified work areas is provided within the CSPP documents in Division 2 of the Contract Documents. The work area requirements are not intended to describe every work element or every detail of work, but rather provide the Contractor with an outline of Airport safety measures, safety protocols and operational requirements during the progression of work.

As part of the SPCD preparation, the Contractor shall propose the actual sequencing of the work in all work areas subject to the conditions indicated and specified within the CSPP. If requested, the Contractor may make necessary changes in the sequencing in order to facilitate Airport operation and safety within a work zone. The Contractor may sequence that time, with coordination with the Airport and the Engineer, as required as long as that time falls within the specified total contract time for the work area.

- 11. PROJECT DURATION.** Upon execution of the Contract, the Sponsor will issue a written “Notice to Proceed” which will specify an effective date for the Contractor to begin work at the site. All work under this Contract must be completed within Total Contract Time of **as identified in the “Notice to Proceed.”**

For additional work area duration requirements and restrictions refer to any phasing notes on the plan sheets of the Contract Documents and the Construction Safety and Phasing Plan (CSPP).

It shall be understood that it is the Contractor's responsibility to schedule and request stoppages in contract time for each respective work area. Further, it is understood that if it is determined to be in the best interest of the Owner and the Airport, the request for a Contract time stoppage can and will be denied. During a Contract time stoppage, no work may commence in that work area until a request is made to resume work and Contract time. If work is performed without an official restart of the Contract time it is agreed that the work performed is at the Contractor's expense and is not eligible for measurement of payment.

It shall be clearly understood that the Contract time is contractual, and if the time is exceeded, liquidated damages will be assessed. Requests for additional Contract time will only be granted for the following reasons:

- 1) Additional work is authorized by change order.
- 2) Delays or postponements of critical path work per the approved construction schedule are requested by the Owner.

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

- 3) Material delivery delays, which are documented and are beyond the Contractor's control. Material delivery delays, which are not documented, and not accounted for or identified in the Contractor's schedule, will not be considered a valid justification to extend the Contract time.

- 12. LIQUIDATED DAMAGES.** If the work remains incomplete after the times specified in the Allowable Project Duration for the Total Contract Time or the Contract Time Within a Work Area, the Contractor agrees to pay the Owner as liquidated damages in the following amounts:

The Liquidated Damages amount listed in the CONTRACT per day for each and every calendar day that the work remains incomplete beyond the Total Contract Time listed for the Project Duration.

The amount to be assessed as Liquidated Damages listed shall be in accordance with Division 1 - FAA General Provisions Section 80-08.

Liability for Liquidated Damages. The Contractor covenants and agrees that should the amount of monies due, or that may become due the Contractor, are to be less than the amount of ascertained liquidated damages, the Contractor and the Contractor's surety shall be liable to the Owner for the deficiency.

For Working Day Only contracts, should the Contractor elect to work on Saturdays, Sundays, or Holidays after the Contract Completion Date, the Contractor will be charged liquidated damages for such days worked.

- 13. ADDITIONAL RESIDENT PROJECT REPRESENTATIVE SERVICES.** The Owner has established a Resident Project Representative budget based on the work hours made available to the Contractor. If the Contractor's work schedule exceeds the Total Contract Time for the project, the Contractor agrees to pay the Owner the additional cost for the Resident Project Representative in excess of the budgeted hours. The typical weekly Resident Project Representative budget is up to fifty (50) hours per week. The cost to the Contractor shall be based on the Resident Project Representative's actual billing rate, plus expenses and fifteen percent (15%) profit in effect at the time the services were provided. For budgeting purposes, an hourly rate of \$160.00/hour is recommended. It shall be understood that these charges are in addition to any other damage claims available to the Owner (Liquidated Damages, Breach of Contract, etc, as described within the Contract Documents).

- 14. MONTHLY DBE REPORTING.** Based on no requirement for DBE participation based on project funding, there is no monthly reporting required.

- 15. COORDINATION OF CONTRACT DOCUMENTS.**

- (a) General. The various sections of the Contract Documents are essential parts of the Contract; a requirement occurring in one is as binding as though occurring in all. The Contract Documents are complementary and intended to describe and provide for a complete work product. In case of discrepancy, precedence of the Contract Documents will be determined in the following order:

Contract Document Order of Precedence

1. Project Permits. In the event of a conflict between permit requirements, the more protective or stringent shall take precedence as determined by the Engineer.

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

2. Contract
3. Invitation to Bid
4. Special Provisions – Supplemental General Provisions
5. Other Special Provisions documents.
6. FAA – Technical Specifications
7. FAA – General Provisions
8. Contract Plans
 - a. Calculated or Stated Dimensions
 - b. Scaled Dimensions
9. Cited Standards for Materials or Testing
10. Cited FAA Advisory Circulars and Orders
11. Any Other Specifications Adopted by Reference

Addendum, Request for Information responses and Field Issued Sketches items take on the precedence of the item they are revising or the section into which they are added.

- (b) No Advantage from Errors or Omissions in Contract Documents. Neither the Contractor, nor the Owner, shall take advantage or be afforded any benefit as the result of apparent error(s) or omission(s) in the Contract Documents. If either party discovers error(s) or omission(s), it shall immediately notify the other. Failure of a bidder to notify the Owner or apparent error(s) or omission(s) in the Contract Documents during the bid process may result in their bid being determined to be non-responsive.
 - (c) Corrections to Contract Documents. The Engineer will make corrections and interpretations deemed necessary and appropriate to fulfill the intent of the Contract Documents. When there is an apparent absence or mention of a detail or an apparent omission of a detailed description in the Contract Documents, the detail or description shall be interpreted/understood/determined using the best general engineering and construction practice.
 - (d) Effect of Other Specifications/Standards. Other specifications (e.g. ASTM, NDS, CRSI, ACI) cited by reference shall become effective only if the work or material covered by them is not included in the Contract Documents. Specifications so referenced shall be the latest revision in effect on the date of advertisement for bids.
16. **BID VALID PERIOD.** No bids may be withdrawn by the Bidder prior to the date listed in the Invitation to Bid.
17. **SPECIALTY ITEMS.** The following items are considered “Specialty Items” in this project:
- a. **None anticipated.**
18. **GENERAL SURETY REQUIREMENTS:**

The Proposal Surety shall be as specified in the Invitation to Bid; only the Bid Bond as bound within these documents or a Cashier's Check is acceptable. Upon request of the bidder, the Owner may choose to accept the AIA Bid Bond form. Each separate Proposal shall be

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

accompanied by a Cashier's Check or Proposal Bond on the form provided herein in the amount of Five Percent (5 %) of the total amount bid, made payable to the Owner. If a Proposal Bond is provided in lieu of a Cashier's Check, it must be accompanied by a Surety's Bond Affidavit indicating that the person signing the bond on behalf of the Surety has full legal authority to do so.

If a Surety Bond is provided, the Surety Company issuing the bond shall be listed on the current United States Department of the Treasury "Department of the Treasury's listing of approved Sureties (Department Circular 570)" as authorized to do business in the **Commonwealth of Massachusetts**. Bids submitted without Bid Security will be rejected as nonresponsive.

100% Contract Payment and 100% Performance Bonds shall be as specified in Section 30-05 of the General Provisions, and must be accompanied by a Surety's Bond Affidavit indicating that the person signing the bond on behalf of the Surety has full legal authority to do so. The Surety Company issuing the bond shall be listed on the current United States Department of the Treasury "Department of the Treasury's listing of approved Sureties (Department Circular 570)" as authorized to do business in the **Commonwealth of Massachusetts**. These Bonds are required from the Contractor guaranteeing that the Contract, including the various guarantee periods thereunder, will be faithfully performed and that Contractor will promptly make payment to all persons supplying them labor, materials, supplies, and services used directly or indirectly by the Contractor in the prosecution of the work provided for in the Contract.

If, at any time after the execution of the Contract and the Contract Bonds, as above required, the Owner deems the Surety or Sureties upon such Bond or Bonds is unsatisfactory, or if, for any reasons, such Bond or Bonds cease(s) to be adequate to cover the performance of the work or prompt payment as above specified, Contractor shall, at its expense and within fifteen (15) days written notice from the Owner to do so, furnish additional Bond or Bonds in such form and amount and with such Surety and Sureties as shall be satisfactory to the Owner. In such event, no further payment to the Contractor shall be deemed due under the Agreement until such new or additional bond or bonds are furnished in a manner and form satisfactory to the Owner.

The Bidder to whom the Contract is awarded must deposit with the Owner at the date of substantial completion of the Contract a Maintenance Surety Bond in a sum equal to Fifteen Percent (15%) of the adjusted Contract amount at completion of work, guaranteeing against defective workmanship and materials for a period of one year from the date of substantial completion. The bond shall be in the form acceptable to the Owner and the Surety Company issuing the bond shall be listed on the current United States Department of the Treasury "Department of the Treasury's listing of approved Sureties (Department Circular 570)" as authorized to do business in the **Commonwealth of Massachusetts**. The Contractor shall be responsible for obtaining and maintaining the Bond in force from the date of substantial completion until the expiration of the one (1) year maintenance period.

19. **RETAINAGE.** The Retainage Percentage for this project, as defined in Division 1 – FAA General Provisions Section 90-06 Partial Payments, shall be no more than **Five Percent (5%)** based on the maximum percentage allowed by applicable **Massachusetts General Law**.

PART B – FAA REQUIRED CONTRACT PROVISIONS CLAUSES

ORIGINAL REFERENCE DOCUMENT:

Contract Provision Guidelines for Obligated Sponsors and Airport Improvement Program Projects
(Current as of May 24, 2023)

Link: https://www.faa.gov/airports/aip/procurement/federal_contract_provisions/may_2023

1. **ACCESS TO RECORDS AND REPORTS – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
2. **NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
3. **BREACH OF CONTRACT TERMS – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
4. **BUY AMERICAN PREFERENCE – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
5. **CIVIL RIGHTS – GENERAL**
(This section must be incorporated in all construction contracts and subcontracts)
Refer to Division 1 – FAA Required Contract Provisions for AIP Projects Section – Page RCP-6
6. **CIVIL RIGHTS – TITLE VI ASSURANCES**
(This section must be incorporated in all construction contracts and subcontracts)
Refer to Division 1 – FAA Required Contract Provisions for AIP Projects Section – Page RCP-6
7. **CLEAN AIR AND WATER POLLUTION CONTROL – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
8. **CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
9. **COPELAND “ANTI-KICKBACK” ACT – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
10. **DAVIS-BACON REQUIREMENTS – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
11. **DEBARMENT AND SUSPENSION (NON-PROCUREMENT) – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
12. **DISADVANTAGED BUSINESS ENTERPRISE – Not Required**
NOT APPLICABLE TO THIS CONTRACT.
13. **DISTRACTED DRIVER – Not Required**
NOT APPLICABLE TO THIS CONTRACT.

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

14. PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT – Not Required

NOT APPLICABLE TO THIS CONTRACT.

15. DRUG FREE WORK PLACE REQUIREMENTS – Not Required

NOT APPLICABLE TO THIS CONTRACT.

16. EQUAL EMPLOYMENT OPPORTUNITY – Not Required

NOT APPLICABLE TO THIS CONTRACT.

17. FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

(This section must be incorporated in all construction contracts and subcontracts.)

Refer to Division 1 – FAA Required Contract Provisions for AIP Projects Section – Page RCP-18

18. LOBBYING AND INFLUENCING FEDERAL EMPLOYEES – Not Required

NOT APPLICABLE TO THIS CONTRACT.

19. PROHIBITION OF SEGREGATED FACILITIES – Not Required

NOT APPLICABLE TO THIS CONTRACT.

20. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

(This section must be incorporated in all construction contracts and subcontracts.)

Refer to Division 1 – FAA Required Contract Provisions for AIP Projects Section – Page RCP-21

21. PROCUREMENT OF RECOVERED MATERIALS – Not Required

NOT APPLICABLE TO THIS CONTRACT.

22. RIGHT TO INVENTIONS – Not Required

NOT APPLICABLE TO THIS CONTRACT.

23. SEISMIC SAFETY – Not Required

NOT APPLICABLE TO THIS CONTRACT.

24. TAX DELINQUENCY AND FELONY CONVICTIONS – Not Required

NOT APPLICABLE TO THIS CONTRACT.

25. TERMINATION OF CONTRACT – Not Required

NOT APPLICABLE TO THIS CONTRACT.

26. TRADE RESTRICTION CERTIFICATION – Not Required

NOT APPLICABLE TO THIS CONTRACT.

27. VETERAN'S PREFERENCE – Not Required

NOT APPLICABLE TO THIS CONTRACT.

28. DOMESTIC PREFERENCE FOR PROCUREMENT – Not Required

NOT APPLICABLE TO THIS CONTRACT.

PART C – GENERAL AVIATION CLAUSES

1. FORMS

The Special Provisions Section of these Specifications references most of the forms as provided in Division 1 and Division 2 of the Contract which are required for use during the project and referenced throughout the Contract Documents. Most of the forms have been assigned unique form numbers to assist the Contractor in locating the correct form. After award of the Contract, the Prime Contractor may request electronic copies of some or all the forms contained in Division 1 and Division 2.

2. SHOP DRAWINGS AND SUBMITTALS

2.1. Submittals shall include but not be limited to: shop drawings, schedules, samples, and manufacturer's literature as required by the Specifications or requested by the Resident Engineer.

No work shall be fabricated until such approval has been received. Work performed without shop drawing approval is at the Contractor's own risk.

2.2. All submissions shall include Form MJ-206 "CONTRACTOR SUBMITTAL FORM" as a cover sheet to the submittal information.

For submittals generated from Subcontractors, two (2) submittal forms are required, one (1) Form MJ-206 from the Contractor and one (1) Form MJ-207 "SUBCONTRACTOR SUBMITTAL FORM" from the Subcontractor.

Submittals received without the completed submittal form(s) will be returned to the Contractor as incomplete and not reviewed. Contractor submittal forms shall be printed on colored paper of the Contractor's choice and shall remain the same color throughout the project.

Contractor submittal forms MJ-206 and MJ-207 are provided in Division 1 "Contract Execution Forms" as referenced above.

2.3. Submissions made directly by Subcontractors will not be accepted. All business concerning approval will be conducted through the Contractor.

The Contractor shall submit for the approval of the Resident Engineer, the following number of submittal copies:

Single Digital Copy (Which is the preferable method)

The Contractor may submit Submittals via email, or other Engineer approved method, using Adobe Acrobat (.pdf) format. In the event that Submittals are submitted via email, it shall be the Contractor's responsibility to ensure that the Submittal is received by the Engineer.

If Hard Copies of Submittals are used:

- Four (4) copies for the Resident Project Representative/Engineer
- Plus the number of copies required by the Contractor/Subcontractor

2.4. Submissions shall be made sufficiently in advance of construction requirements to allow ample time for checking, resubmitting and rechecking without causing delay in the work. Failure to submit shop drawings in a timely manner shall not be considered as a valid reason for a Contract time extension.

2.5. Each submission, including the submission of Subcontractors shall be checked by the Contractor

DIVISION 2 – SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

for accuracy and compliance with the Contract Documents. The certification on the submittal form shall constitute as evidence of such checking and coordination. Submissions without this certification will not be considered for review by the Resident Project Representative.

Submittal certification shall include one (1) of the following:

2.5.1. Submitted "as specified" for the product

2.5.2. Submitted "AS EQUAL" to the product specified

2.5.3. Submitted "IN SUBSTITUTION" for the product specified

2.5.4. "OTHER"

- A. Submitted "as specified" shall mean the Contractor is certifying that the submittal item or system is of the same manufacture and model number, or performance standard as specified and is in all ways identical to the Contract Documents in form and function. For these items, manufacturer's data sheets shall be attached to the Contractor submittal form.
- B. Submitted "AS EQUAL" to the product or system specified shall mean the Contractor is certifying the proposed submittal, although supplied by a manufacturer other than the one specified for the item meets or exceeds the physical requirements, function, specifications, quality, speed, reliability, service life, safety, and/or maintenance costs of the product specified, and is capable of being incorporated into the overall project without design revisions and will perform equally or better than the specified item. For these items, manufacturer's data sheets shall be attached to the Contractor submittal to demonstrate that the performance, durability and/or maintenance standards of the product are as specified.
- C. Submitted "IN SUBSTITUTION" to the product or system specified means the Contractor is proposing an item or system of different physical requirements, specifications, quality, reliability, and/or maintenance costs, than the product specified. For a submission "IN SUBSTITUTION" of the product or system specified, the following information and procedure shall be followed to determine if the Owner's requirements will be satisfied:
 - a. Design the system to meet or exceed the operational requirements, physical requirements, specifications, quality, reliability, maintenance costs, and ease of operation of the specified system.
 - b. Submit full Specifications for the system and all components in the form of shop drawings for review by the Owner and the Engineer.
 - c. Submit a revised design for the system, stamped by a licensed Professional Engineer within the state in which the work is to be performed.
 - d. Submit revised details for any and all components of the proposed system that are different than those of the specified system. A licensed Professional Engineer within the state in which the work is to be performed shall stamp details.
 - e. Demonstrate the proposed system to the satisfaction of the Owner and Engineer.
 - f. Reimburse the Engineer at the rate of \$200.00 per hour for Project Managers and \$145.00 per hour plus expenses for Project Engineers for all time spent reviewing, discussing and otherwise being involved with the substitute system. The payment shall be made based on an estimate of the time required and shall be paid in

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advance of the review. If the estimated amount is exceeded, additional amounts must be provided by the Contractor for the review to continue. Upon completion of the review, a summary invoice will be provided to the Contractor indicating the hours spent and amount billed. Any money not spent on the review will be returned to the Contractor.

- g. Provide a credit satisfactory to the Owner for any cost savings associated with the substitution. The Contractor should anticipate providing a credit equal to one-half of the cost differential between the specified system and the system proposed for substitution.

Acceptance of any alternate item or system will be at the discretion of the Owner. Upon acceptance or rejection of a system or component thereof, the Engineer shall provide a written response to the Contractor in the form of a shop drawing review.

- D. Submitted Certified as "OTHER". The Contractor shall provide information to demonstrate the proposed item or system will satisfy the design intent and provide the Owner performance, reliability and maintenance ease over its anticipated service life that exceeds that of the specified product. The final determination of suitability shall be the sole responsibility of the Owner.

- 2.6. Changes on the submitted shop drawings that deviate from the Project Plans and Specifications must be brought to the Owner's and Resident Project Representative's attention, in writing, prior to review. Changes must be clearly visible on the shop drawings in the form of written notation, ballooning, or highlighting the intended change. A written description for the proposed change must also be included and submitted on company letterhead. Changes to drawings and details not submitted in accordance with these requirements will not be recognized as an approved deviation from the Design of Record. Construction repairs, renovations, or replacements required as a result of shop drawing and submittal deviations that are not documented in accordance with these requirements are subject to removal and/or replacement by the Contractor, at the sole cost of the Contractor. The Contractor shall not be relieved of responsibility for errors or omissions in shop drawings, product data, samples or similar submittals by the Resident Project Representative's actions.
- 2.7. Shop drawings for pipe, fittings, and masonry items shall consist of certificates of conformance or affidavits from the manufacturer's signifying that all materials conform to the Specifications.
- 2.8. The Contractor shall allow for sufficient time within the project schedule for shop drawing review and processing. Items requiring long lead times which impact the start or completion of the project shall be identified, brought to the Engineer's attention and noted on the shop drawing submission. Additional Contract time will not be provided for failure to submit shop drawings for approval in a timely manner.
- 2.9. The Owner reserves the right to back charge the Contractor for expenses incurred in reviewing and returning incomplete shop drawings. Expenses shall include the costs of the Engineer at the rate of \$200.00 per hour for Project Managers and \$150.00 per hour plus expenses for Project Engineer's for the actual time incurred. The Contractor will be provided documentation of the expenses incurred. Contractor back charges will be deducted from payments due to the Contractor.
- 2.10. The Contractor shall submit all required Buy American Preferences documentation with each shop drawing as outlined in Appendix Y of FAA Order 5100-38D (AIP Handbook) dated

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February 26, 2019 (or current version) included in this Contract Document (Division 1 – Referenced Documents) and as required by the Owner or the Resident Project Representative. Delays caused by the Buy American Preferences program shall be expected and the Contractor agrees to make no monetary claim for delays, interferences or hindrances of any kind in the performance of this Contract occasioned by any act or omission to act of the Owner or any of its Representatives.

Each shop drawing and submittal shall be accompanied by a signed copy of Form MJ-205 “Contractor / Subcontractor / Supplier Buy American Certification.” A blank copy of this form is included in Division 1 - “Contract Execution Forms” Section referenced above.

3. DISADVANTAGED BUSINESS ENTERPRISE (DBE) AND SMALL BUSINESS PROGRAMS

Federal DBE Requirements and associated reporting are not required for this Project. However, the Contractor SHALL ADHERE to the Prompt Payment requirements under subsection 3.1 paragraph ii.

However, it is the policy of the Nantucket Memorial Airport Commission at the Nantucket Memorial Airport to practice nondiscrimination based on race, color, sex, or national origin in the award or performance of this contract. The Owner encourages participation by all firms qualifying to perform work under this solicitation, regardless of business size or ownership.

Also it is noted, The **Town of Nantucket, Massachusetts** for the **Nantucket Memorial Airport (SPONSOR)** does have an established a DBE program in accordance with 49 CFR Part 26 (Part 26) and the U. S. Department of Transportation (USDOT) regulations, even though it will not be required to be used for this project.

3.1. DBE PROGRAM

(NOT REQUIRED FOR THIS PROJECT, EXCEPT AS OTHERWISE NOTED ABOVE):

It is the policy of the **SPONSOR** to help ensure that DBEs, as defined in Part 26, have an equal opportunity to receive and participate in FAA-assisted contracts. It is also our policy:

- To help ensure nondiscrimination in the award and administration of FAA - assisted contracts;
- To create a level playing field on which DBEs can compete fairly for FAA - assisted contracts;
- To help ensure that the DBE program is narrowly tailored in accordance with applicable law. To help ensure that only firms that fully meet Part 26 eligibility standards are permitted to participate as DBE firms;
- To help remove barriers to the participation of DBEs in DOT assisted contracts;
- To assist the development of firms that can compete successfully in the marketplace outside the DBE program; and,
- To help ensure that all firms, from prime contractors to subcontractors, understand and respect their obligations relative to all aspects of the DBE program, and that deviations from the requirements of the regulation may be subject to applicable state and federal enforcement sanctions

The **SPONSOR** has delegated a DBE Liaison Officer. In that capacity, they are responsible for

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implementing all aspects of the DBE program. Implementation of the DBE program is accorded the same priority as compliance with all other legal obligations incurred by the **SPONSOR** in its financial assistance agreements with the Department of Transportation. A Copy of the **SPONSOR**'s – “DBE Program” is on file at the **SPONSOR**'s administrative offices.

The **SPONSOR** has chosen to have a Race-Neutral DBE program for recent federal fiscal year for applicable projects. A Race-Neutral program is one where the Airport works to create a level playing field where all firms, including DBE's and small businesses, can compete for work. A Race-Neutral DBE program does not include project specific DBE goals.

Although Contractors do not have a project specific goal for DBE participation on a Race-Neutral project, Contractors must still comply with the requirements of 49 CFR Part 26 and the AIP Federal Contract Provisions contained in Division 1 – FAA Required Contract Provisions for AIP Projects.

Some of these FAA Required Contract Provisions for AIP Projects requirements include:

- i. **Seeking Subcontractors and Suppliers:** Bidders must make a good faith effort to provide notice to all firms, including small businesses and DBE's, of upcoming opportunities to supply materials or subcontract on federally funded projects. Some examples of good faith efforts would be: contacting all firms on the state DBE or minority contractor listing to notify them of opportunities; compiling lists of firms that have previously shown an interest in working on federally funded projects and contacting them when bidding projects; using services like Construction Summary to advertise for suppliers and subcontractors; and before the start of the “bidding season” place ads in newspapers and on the company web site to solicit letters of interest from firms.

Despite the fact that there is no project specific DBE goal for this project, the Contractor must still utilize the Good Faith Effort guidelines and procedures in 49 CFR Part 26 including Appendix A.

- ii. **Prompt Payment:** Prime Contractor can level the playing field for all Subcontractors and Suppliers by paying them promptly for satisfactory completion of their work. Contractors are encouraged to pay Subcontractors and Suppliers as quickly as possible. **Contractors are required to pay all Subcontractors and Suppliers in accordance with the Prompt Payment** clause stated in this Division 1 – FAA Required Contract Provisions for Obligated Sponsors and Airport Improvement Program Projects – Disadvantaged Business Enterprise Section.
- iii. **Identification of DBE and Small Business Contractors Included in the Bid:** The Prime Contractor is required to provide the anticipated DBE and Small Business utilization that is included in their bid. The DBE forms must include the percentage of DBE participation and Small Business participation that the Prime Contractor anticipates achieving for the project. The form must include the name, proposed work, and dollar amount of the work that the DBE or Small Business will be providing.

For each DBE or Small Business listed, the Contractor must also submit a copy of Form MJ-105 “Prime Contractor – DBE/Small Business Reporting Information Form” (if the Prime Contractor is a DBE or Small Business) or MJ-106 “Subcontractor / Supplier DBE / Small Business Reporting Information Form” with detailed information on the firm.

As part of the bid opening, the Contractor must submit signed copies of Form MJ-104 “Subcontractor / Supplier Disadvantaged Business Enterprise (DBE) and Small Business –

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Letter of Intent” for each DBE or Small Business firm listed in the bid.

- iv. **DBE and Small Business Termination and Substitution:** Contractors must utilize the all DBE and Small Business Subcontractors and Suppliers for the work and for the payment amount listed in their bids. The work or payment amount of DBE and Small Business Subcontractors and Suppliers may not be reduced, switched to a different contractor, or eliminated unless a written request is made to the Owner and the Owner approves the change.

If a substitution or a change in the work or payment amount of DBE and Small Business Subcontractors and Suppliers is requested, the work or payment shall be shifted to another DBE or Small Business Subcontractor or Supplier. Any change or substitution of subcontractors, suppliers, or joint venture partners requires the approval of the Owner. **The Contractor shall submit a copy of Form MJ-210 “Change of Subcontractor/Supplier” to the Engineer to request permission to change or substitution of subcontractors, suppliers, or joint venture partners.** If another DBE or Small Business Subcontractor or Supplier cannot be found by the Contractor, they must provide documentation of Good Faith Effort as outlined in 49 CFR Part 26 including Appendix A.

The DBE and Small Business termination or substitution process is complicated and time consuming. The Contractor is not entitled to any contract time extensions as a result of the process. The Contractor may not make any delay claims against the Owner nor will the Contractor be entitled to receive any additional compensation due to the termination or substitution of a Subcontractor or a Supplier.

Failure to comply with the requirements of this section may result in the Contractor’s termination for cause.

- v. **Commercially Useful Function:** DBE’s and Small Businesses must perform a commercially useful function as defined by 49 CFR Part 26 to be counted in the calculation of DBE or Small Business accomplishments. In particular, DBE’s and Small Businesses may not use any of the Prime Contractor’s employees, equipment, or materials in the performance of their work.
- vi. **Calculating DBE Participation:** The Contractor shall consult 49 CFR Part 26 and understand the way DBE participation is counted on FAA funded projects such as this project. Only DBE’s certified by the State’s Identified Unified Certification Program shall be considered as DBE’s for this project (refer to Part A – Section 1 of this Special Provision/Supplemental General Provisions for DBE Directory location). DBE firms that are certified in other states and firms that think that they may be eligible to be certified as a DBE in this state are encouraged to contact the Project Locations State Agency/Department to be included in that State’s Unified Certification Program.
- vii. **List of Potential Subcontractors and Suppliers:** All bidders shall provide information on all firms that they contacted or considered as a potential Subcontractor or Supplier on this project. The Contractor shall provide a copy of Form BC3 – Bidder’s Proposed List of Subcontractors and Suppliers, in addition to the requirements outlined above for DBE subcontractors/suppliers. **This information must be provided with the Contractor’s bid.** Failure to provide this information with the bid may result in the Owner declaring the bid non-responsive and rejecting it.

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3.2. **SMALL BUSINESS PROGRAM (NOT REQUIRED FOR THIS PROJECT)**

It is the policy of the **SPONSOR** to facilitate competition by small business concerns, taking all reasonable steps to eliminate obstacles to their participation in federally funded projects, including unnecessary and unjustified bundling of contract requirements that may preclude small business participation in procurements as prime contractors or subcontractors.

A Small Business is defined in 49 CFR Part 26.5 and 13 CFR Part 121 and the average annual gross receipts can, in some cases, be over \$19 million.

A DBE is typically also a Small Business and, if they qualify as both, they may be counted toward both the DBE and Small Business participation on this project.

The Contractor shall make all reasonable efforts to eliminate obstacles to small business participation in making portions of their work available to subcontractors. Methods that may be used include unbundling large tasks, using small business and DBE directories to solicit proposals from small businesses, and making all potential subcontractors and suppliers aware of prompt payment clauses contained in this project.

4. **SUBLETTING WORK TO SUBCONTRACTORS AND SUPPLIERS OR ASSIGNMENT OF CONTRACT**

- 4.1. **GENERAL:** The Contractor shall not sublet, assign, sell, transfer, or otherwise dispose of the Contract or any portion thereof, or of its right, title, or interest therein to any individual, firm, corporation, or other entity without the written consent of the **SPONSOR**. The Contractor must file with the **SPONSOR** copies of all executed subcontracts and other documents. An approved subcontractor shall not in turn sublet or assign any of the work pertaining to the subcontract without the Contractor obtaining further permission from the **SPONSOR**. In no event shall the **SPONSOR** approval release the Contractor from responsibility and liability under the Contract and bonds.

Any work or material supply that costs \$10,000 or more and is included in this project that the Prime Contractor wants to sublet to another firm must be approved by the **SPONSOR** in writing. Any Subcontractors or Suppliers that will be doing work or supplying material that is sublet and approved by the **SPONSOR** must have a signed contract with the Prime Contractor or a lower tier Subcontractor or Supplier before they may begin work or deliver material to the project site. The **SPONSOR** reserves the right to reject the use of any Subcontractor or Supplier that they feel is not in best interests of the **SPONSOR**.

The Contractor must file the Forms outlined in subsection 4.5 of this Section (below) to obtain the SPONSORS' permission to utilize subcontractors and suppliers.

- 4.2. **PERFORMANCE OF THE CONTRACT WORK:** The Contractor shall perform Contract work with its own organization amounting to at least **30 percent** of the total Contract work amount, minus "Specialty Items." The Contractor's own organization includes only workers employed and paid directly by the Contractor and equipment owned, leased, or rented by it from a non-debarred individual or entity, with or without operators. The term "own organization" does not include employees or equipment of a subcontractor, assignee, agent, or supplier of the Contractor. When determining whether the Contractor is in compliance with this requirement, the following shall apply:

- (1) The cost of materials and manufactured products to be purchased or produced under the

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Contract shall be included in the amount upon which the percent requirement is computed.

(2) The percentage of subcontracted work shall be based on the Contract, rather than subcontract, unit prices. If only a part of a Contract item is to be sublet, its proportional value shall be determined on the same basis.

(3) When a firm sells materials to a Contractor and performs the work of incorporating the materials into the project, these actions must be considered in combination and as constituting a single subcontract.

4.3. **“SPECIALTY” ITEMS:** The cost of “Specialty Items” may be deducted from the total Contract price before computing the amount of work required to be performed by the Contractor’s own organization. Specialty items will be designated, as such in Part A, Section 17 of this Special Provision/Supplemental General Provision and may be performed by subcontract.

4.4. **PERFORMANCE REQUIREMENTS:** The Contractor and its subcontractor(s) shall, in the staffing and administration of the Contract, comply with the following performance requirements:

(1) Commercially Useful Function. The Contractor and all subcontractor(s) must each perform a “commercially useful function”. This means that the Contractor or Subcontractor is responsible for the execution of a distinct element of the work of a Contract and carries out its responsibilities by actually performing, managing, and supervising the work involved. The Contractor or Subcontractor must have the latitude to independently:

- a. Select contracts to be bid;
- b. Determine prices to be quoted;
- c. Select material suppliers;
- d. Hire, fire, supervise, and pay employees; and
- e. Direct or cause the direction of the management and policies of the firm.

The Contractor/subcontractor may not broker work for another firm or act as a bidding conduit.

(2) Contractor to Furnish Competent Representative; Safety Officer; Others. To ensure that any subcontracted work is performed in accordance with the Contract requirements, the Contractor shall be required to furnish:

- a. A competent, reliable, English-speaking representative employed by the Contractor who has full authority to direct performance of the work in accordance with the Contract requirements and who is responsible for all construction operations on the project regardless of who performs the work.
- b. A competent, reliable, English-speaking employee designated as the safety officer who is authorized to receive orders and to issue binding directions concerning safety to all persons except Sponsor representatives associated with the project, whether employed by the Contractor, subcontractors, or material suppliers.
- c. Such other individual(s) from the Contractor’s organization as the SPONSOR’s Construction Engineer determines are necessary to ensure the performance of the Contract, e.g., supervisory, managerial and engineering personnel.

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(3) Employees on Payroll. The Contractor/subcontractor is not permitted to place on the payroll the employees of another firm for the purpose of avoiding Federal or State regulations or the provisions of the Contract.

- 4.5. **SUBLETTING WORK TO SUPPLIERS:** Suppliers that the Contractor or a lower tier Subcontractor or Supplier plans to sublet work to must be approved by the **SPONSOR**. The Prime Contractor must submit a package of information to the **SPONSOR** through the Resident Project Representative at least fourteen (14) calendar days prior to the date that the supplier will be supplying material to the project site.

The Supplier Sublet package shall include the following correctly filled out and executed forms:

- i. Form MJ-204 – “Transmittal Request for Consent to Sublet”;
- ii. Form MJ-202 – “Contractor Acknowledgement Certification”- **NOT REQUIRED for this Project**;
- iii. Form MJ-203 – “EEO Officer Notification and Program Compliance Certification”- **NOT REQUIRED for this Project**;
- iv. EEO Appointment Letter; - **NOT REQUIRED for this Project**
- v. EEO Policy Statement; - **NOT REQUIRED for this Project**
- vi. Form MJ-106 – “Subcontractor/Supplier – DBE/Small Business Reporting Information Form” - **NOT REQUIRED for this Project**; and
- vii. Form MJ-108 – “Prohibition of Segregated Facilities” - **NOT REQUIRED for this Project**.

- 4.6. **SUBLETTING WORK TO SUBCONTRACTORS:** Subcontractors that the Contractor or a lower tier Subcontractor or Supplier plans to sublet work to must be approved by the **SPONSOR**. The Prime Contractor must submit a package of information to the **SPONSOR** through the Resident Project Representative at least fourteen (14) calendar days prior to the date that the supplier will be supplying material to the project site.

The Subcontractor Sublet package shall include the following correctly filled out and executed forms:

- i. Form MJ-204 – “Transmittal Request for Consent to Sublet”;
- ii. Form MJ-202– “Contractor Acknowledgement Certification” - **NOT REQUIRED for this Project**;
- iii. Form MJ-203 – “EEO Officer Notification and Program Compliance Certification” - **NOT REQUIRED for this Project**;
- iv. EEO Appointment Letter - **NOT REQUIRED for this Project**;
- v. EEO Policy Statement - **NOT REQUIRED for this Project**;
- vi. Form MJ-100 – Affirmative Action Certification - “Equal Employment Opportunity Report Statement as Required by 41 CFR 60-1.7(b)” - **NOT REQUIRED for this Project**.
- vii. Form MJ-106 – “Subcontractor/Supplier – DBE/Small Business Reporting Information Form” - **NOT REQUIRED for this Project**; and
- viii. Form MJ-108 – “Prohibition of Segregated Facilities- **NOT REQUIRED for this Project**”.

5. PROOF OF PROMPT PAYMENT

Prompt payment of suppliers and subcontractors is required as outlined in Section 3, Subsection 3.1, paragraph ii. from above in this Part C.

With each Periodic Cost Estimate (PCE), the Prime Contractor shall provide proof of payment of all Subcontractors and Suppliers whose work was included in the previous PCE. Proof of payment shall consist of a copy of a cancelled check or a certificate of payment signed by the Subcontractor or Supplier. The Owner may provide the Contractor with one or more forms to be filled out and returned to the Owner to monitor and track payments.

To track work by Subcontractors and Suppliers, the Prime Contractor shall submit copies of Form MJ-208 “Subcontractor / Supplier Disadvantage Business Enterprise (DBE) and Small Business – Project Expenditure Report” for EVERY approved Subcontractor and Supplier with each PCE even if the Subcontractor or Supplier did not do any work on the project or supply any materials to the project during the period covered by the PCE.

If the Contractor is in violation of this prompt payment requirement, the Owner may withhold the amount due to the Subcontractor or Supplier from future payments due to the Contractor until satisfactory proof of payment is received. If the Contractor is in violation of this prompt payment requirement four (4) or more times, the Owner may terminate the Contract for cause and/or may require the Contractor to pay some or all of their Subcontractors or Suppliers and provide proof of payment before the Subcontractor’s or Supplier’s work can be included on a PCE.

6. EQUAL EMPLOYMENT OPPORTUNITY (EEO) / AFFIRMATIVE ACTION (AF) / NON-DISCRIMINATION (ENTIRE SECTION NOT REQUIRED FOR THIS PROJECT)

The Offeror's or Bidder’s attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth in Division 1 and also referenced in Part B. Section 17, in this Special Provision/Supplemental General Provision. The Contractor and all Subcontractors and Suppliers shall comply with the EEO, AF, and Non-Discrimination requirements in the “Contract Provision Guidelines for Obligated Sponsors and Airport Improvement Program Projects” contained in Division 1 documentation, 41 CFR 60-4 (two sections are contained in Division 1 Referenced Documents), and Federal Executive Order 11246. If the federal requirements and the state requirements conflict, the federal requirements shall govern. Requirements include, but are not limited to:

6.1. **SF-100:** The Contractor and all first tier Subcontractors must file SF-100 (EEO-1) by September 30th of each year but in no case later than the start of this project if they employ 50 or more employees at all locations and they have contracts of \$50,000 or more. The Contractor shall confirm these requirements prior to the start of work.

6.2. **MINORITY AND FEMALE EMPLOYEE PARTICIPATION:** The Contractor and all Subcontractors must comply with 41 CFR Part 60-4 and Federal Executive Order 11246 in regards to goals for minority and female employees in federally funded projects. Participating Contractors and Subcontractors must:

- i. Take specific actions as outlined in 41 CFR Part 60-4 to ensure EEO;
- ii. Have an EEO / AF Plan;

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- iii. Designate an EEO / AF Officer;
 - iv. Periodically notify and train supervisors and others on the Plan;
 - v. Recruit minorities and females;
 - vi. Maintain EEO / AF records;
 - vii. Develop or participate in on-the-job training programs;
 - viii. Disseminate their Plan;
 - ix. Post their Plan;
 - x. Annually evaluate all minorities for promotion; and
 - xi. Annually review supervisors' adherence to their Plan.
- 6.3. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are contained in the Invitation for Bids.

These goals are applicable to all of the contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its Federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training shall be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project, for the sole purpose of meeting the contractor's goals, shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 6.4. The Contractor shall provide written notification to the US Department of Labor, Director, Office of Federal Contract Compliance Programs (OFCCP), within ten (10) working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of subcontract; and the geographical area in which the subcontract is to be performed.
- 6.5. As used in this notice and in the contract resulting from this solicitation, the "covered area" is noted in Division 1 – FAA Required Contract Provisions, Page RCP-3.

7. MATERIALS, SERVICES, AND FACILITIES

It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide at no cost to the Owner all materials, labor, tools, equipment, water, light, power,

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transportation, superintendence, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the work for the specified item.

Any work to be performed after regular hours, on Sundays or on Legal Holidays, shall be performed without additional expense to the Owner. This includes but is not limited to paying for additional Resident Project Representative time cost incurred by the Owner.

8. CONTRACTOR'S TITLE TO MATERIALS

No materials or supplies for the work shall be purchased by the Contractor or by any Subcontractor subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller. The Contractor warrants that he /she has good title to all materials and supplies used by him/her in the work free from all liens, claims or encumbrances.

9. LUMP SUM AND UNIT PRICES

Only those items for which unit prices are shown in the Bid Form will be considered for separate payment. Compensation for all other work shall be included in the appropriate Contract items.

Quantities listed in the Bid Form are estimated for Bidding purposes only and do not necessarily represent the exact amount of work to be done. Payment for unit price items will be based on the unit prices specified or Bid and the actual amount of work performed.

10. "OR EQUAL" CLAUSE

Whenever materials are identified on the Plans or in the Specifications by reference to manufacturer's or vendors' names, trade names, catalogue numbers, etc., it is intended merely to establish a standard; and any material of other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the materials so proposed are, in the opinion of the Engineer, of equal substance and function. Such materials shall not be purchased or installed by the Contractor without the Engineer's written approvals through the Shop Drawing process.

11. REPRESENTATIONS OF THE CONTRACTOR

The Contractor represents and warrants:

- a. that they are financially solvent and that they are experienced in and competent to perform the type of work or to furnish the plant, materials, supplies or equipment, to be so performed or furnished by him/her; and
- b. that they are familiar with all Federal, State, municipal and Sponsor laws, ordinances and regulations, which may in any way affect the work or those employed therein, including but not limited to, rulings or actions specifically relating to the work or to the project of which it is a part; and
- c. that such temporary and permanent work provided by the Contract Documents as is to be done by them can be satisfactorily constructed and used for the purpose for which it is intended, and that such construction will not injure any person or damage any property; and
- d. that they have carefully examined the Plans, Specifications and site of the work, and that from their own investigations, they have satisfied themselves as to the nature and location of the work,

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the character, quality and quantity of equipment and other facilities needed for the performance of the work, the general and local conditions and all other materials which may in any way affect the work or its performance.

12. PROTECTION OF WORK AND PROPERTY AND EMERGENCIES

12.1. **PROTECTION OF WORK AND PROPERTY:** The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Contract. The Contractor shall at all times safeguard and protect their own work and adjacent property from damage. The Contractor shall correct any such damage, loss or injury unless such is caused directly by errors contained in the Contract or caused by the Owner, or the Owner's duly authorized representative.

12.2. **EMERGENCIES:** In case of an emergency which threatens loss or injury of property, and/or safety of life, the Contractor will be allowed to act, without previous instructions from the Resident Project Representative, in a diligent manner. The Contractor shall notify the Resident Project Representative immediately thereafter. Any claim for compensation by the Contractor due to such extra work shall be promptly submitted to the Resident Project Representative for approval.

The amount of reimbursement claimed by the Contractor on account of any emergency action shall be determined in the manner provided in Division 1, General Provisions, Section 40.

Where the Contractor has not taken action but has notified the Engineer of any emergency threatening injury to persons or damage to the work or any adjoining property, the Contractor shall act as instructed or authorized by the Resident Project Representative.

Where the Contractor has not taken action but has notified the Engineer of any emergency threatening injury to persons or damage to the work or any adjoining property, the Contractor shall act as instructed or authorized by the Resident Project Representative.

Any Contractor whose place of business is located outside of the boundary of the city or town where the airport is located and who does not maintain local headquarters 24 hours a day within that city or town must make satisfactory arrangements with the Engineer for taking care of emergencies or complaints which may occur at night, over the weekend, or when the job is shut down. If they do not, the Owner may make arrangements and the cost will be charged to the Contractor. Before the final estimate is certified for payment, the Contractor shall make similar arrange

12.3. **COVID-19 RESTRICTIONS:** The Contractor shall comply with all requirements of the Federal Government, FAA, General State Guidelines, other State Regulations, local regulations, and the **SPONSOR** related to protection of workers and the public from COVID-19. This may include maintaining additional facilities, like hand-washing stations, at the work area and quarantining workers traveling into SPONSOR's work zones. All costs for the Contractor's compliance with COVID-19 requirements shall be considered incidental to the project and shall be the full responsibility of the Contractor.

13. PROTECTION AND RESTORATION OF PROPERTY

13.1. **GENERAL:** These requirements are in addition to those contained in Division 1 - FAA General Provisions, Section 70.

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The Contractor shall:

- (1) Not enter upon private property for any purpose without obtaining written permission;
- (2) Use every precaution necessary to prevent damage or injury to public and private property;
- (3) Protect all trees, shrubs, and other plants not marked by the Engineer for removal from damage by construction operations.

13.2. **PROTECTION OF EXISTING INFRASTRUCTURE:** The Contractor shall make sure that any portions of the existing airport, roadway and existing structures which are to be retained for public use or travel are left in as good condition as when the Contractor commenced work. The Contractor shall not move or use equipment on any pavement or structure in a manner that may or does cause damage.

13.3. **CONTRACTOR’S RESPONSIBILITY:** The Contractor’s responsibility shall not be released until the work has been completed and accepted and the applicable statute of limitations has expired.

13.4. **RESTORATION OF DAMAGED PROPERTY:** When any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work or in consequence of the non-execution thereof on the part of the Contractor, such property shall be restored at the Contractor’s expense to a condition similar or equal to that existing before such damage or injury was done or the Contractor shall make good such damage or injury in an acceptable manner.

13.5. **CLEANING TRAFFIC SIGNALS, STREET LIGHTING, AND AIRFIELD LIGHTING:** When the Contractor’s operations compromise the functionality of existing traffic signals and/or street or airfield lighting equipment, the Engineer may require the Contractor to clean said equipment prior to project completion. Cleaning of traffic signals shall include all vehicle and pedestrian signal face lenses (inside and outside). Further, the inside of the controller cabinet shall be vacuumed and any vent filter shall be replaced; cleaning of streetlights shall include both the lens (inside and outside) and the reflector. The cleaning of electrical equipment shall be done by a traffic signal/electrical contractor. Any equipment that is damaged in the cleaning process shall be repaired or replaced at the Contractor’s expense. The costs for cleaning will not be paid for directly, but will be considered incidental to other items in the Contract.

13.6. **GROUND VIBRATION LIMITS:** The maximum Peak Particle Velocity (PPV) of ground vibration in any of the three mutually perpendicular components of particle velocity for the following structure types shall be limited as follows:

PPV IN MM/S (IN/SEC)

<u>Type of Structure</u>	<u>Frequencies < 40 Hz</u>	<u>Frequencies > or = 40 Hz</u>
Modern Homes (drywall interior)	19 (0.75)	50 (2.0)
Older Homes (plaster on wood or lath)	13 (0.50)	50 (2.0)
Non-Residential Structures Underground Utilities		

The SPONSOR reserves the right to lower the PPV limit in areas where there may be structures or elements with a higher sensitivity to ground vibration. Adherence to this specification does not waive the Contractor’s responsibility for damage as specified in this Subsection and in Part B. Section 22 Seismic Safety (as applicable).

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14. PUBLIC CONVENIENCE AND SAFETY

14.1. **GENERAL:** The Contractor shall conduct all work so as to ensure the least possible obstruction to traffic. The safety and convenience of the general public and the residents along the highway within the construction area and the protection of persons and property shall be provided for by the Contractor.

14.2. **DUST CONTROL:** The Contractor shall use all necessary dust control on haul road(s) and maintenance yard(s) in the same manner as required for materials sources and disposal areas. Dust control on haul road(s) and maintenance yard(s) shall be performed in accordance with Division 1, General Provisions, and will not be paid for directly, but will be considered incidental to all other Contract items. The Contractor shall perform all dust control directed by the Engineer on the haul road(s) and/or maintenance yard(s); unless otherwise provided, dust control will not be paid for directly, but will be considered incidental to all other Contract items.

The Engineer will direct the use of all necessary dust control within the limits of the construction performed under the Contract. Under those contracts which contain pay items for dust control, the dust control within the construction area shall be performed in accordance with the requirements of Division 1 – General Provisions (and other references herein) and will be paid for under the appropriate Contract item(s). Under those contracts which do not contain pay items for dust control, the necessary dust control shall be performed in accordance with the requirements of Division 1 – General Provisions (and other references herein) and the cost will not be paid for directly, but will be considered incidental to all other Contract items.

14.3. **STORED MATERIALS:** Materials stored within the construction area shall be placed so as to cause a minimum obstruction to the facility users, the traveling public and snow removal operations. Materials shall not be store in any areas regulated by State or Federally Environmental Agency or in buffers unless approved by the Resident Project Representative.

14.4. **FIRE HYDRANTS:** Fire hydrants located within the construction area shall be kept accessible to fire apparatus at all times and no material or obstruction shall be placed within 15 feet of any such hydrants.

14.5. **ADJOINING WAYS:** Sidewalks, gutters, drainage inlets, and portions of highways adjoining the construction shall be obstructed only when necessary. If a sidewalk is obstructed, temporary pedestrian access meeting the requirements of ADA and the MUTCD shall be provided around the obstructed area.

14.6. **VEHICLE LANE RESTRICTIONS:** When the total useable width of a traveled way will be decreased to 14 feet or less for a period longer than one working day, the Contractor shall notify the Engineer of the date of the first day and the anticipated period of time such a lane restriction will be in effect. This notification shall be provided at least two weeks prior to the beginning of the lane restriction so that the Engineer may provide proper notification to the Oversized/Overweight Section of the Commercial Vehicle Enforcement Unit of the Department of Motor Vehicle and the Agency's Communications Section. When the date of the removal of the restriction becomes known, the Contractor shall notify the Engineer so that notification can be provided to these entities.

15. USE OF EXPLOSIVES

- 15.1. **GENERAL:** The Contractor shall use the utmost care to protect life and property and, whenever directed by the Engineer, shall reduce the number and size of explosive charges. Blasting mats shall be used when required by regulation or deemed necessary. The Contractor shall notify each person, company, corporation, or public utility that owns, leases, or occupies property or structures near the site of the work of plans to use explosives; notice shall be given sufficiently in advance to enable people to take such steps to protect their property or structure from injury as they may deem necessary. Provision of notice shall not relieve the Contractor of responsibility for any damage resulting from the Contractor’s blasting operations. All persons within the danger zone of blasting operations shall be warned, a warning whistle shall be sounded, and the zone cleared just prior to blasting. A sufficient number of flaggers shall be stationed outside the danger zone to stop all approaching traffic during blasting operations. Explosives shall be used only during daylight hours and shall be handled only by competent, trained workers; particular care shall be taken to ensure that no unexploded charges remain in the work area unattended and when constructions operations cease for the day. All explosives shall be stored securely, all storage locations shall be clearly marked “DANGEROUS-EXPLOSIVES,” and all storage locations shall be supervised and controlled by a competent, trained person at all times. All explosives and highly flammable materials shall be stored and used in strict conformity with all Federal, State, and local laws, rules, and regulations. Attention is directed to VOSHA *Safety and Health Standards for Construction, Subpart U, Blasting and the Use of Explosives*.
- 15.2. **LIABILITY:** Each of the insurance policies required for a project shall include coverage for injury to persons and injury or destruction of any property arising out of the storage and use of explosives.
- 15.3. **INSURANCE:** The Contractor acknowledges full responsibility and assumes full liability for any and all damage or injury to persons or property caused either directly or indirectly by the Contractor’s or a subcontractor’s use of explosives. The liability of the Contractor shall apply equally to damages or injury to persons or property whether said injury or damage occurs within or outside of the right-of-way. The cost of all precautionary measures shall not be paid for directly, but all costs therefore shall be included in the bid prices for the pay items under the Contract.
- 15.4. **BLASTING CAP DANGER:** The Contractor and/or the Contractor’s agents shall take all precautions necessary to prevent premature explosions of electric blasting caps individually or when they are connected into a circuit.
- 15.5. The Contractor and/or the Contractor’s agents acknowledge and are hereby advised of the potential hazard of a premature explosion of electric blasting caps due to propagation of radio frequency energy by transmitters of radio and the related radio services such as television and radar. Mobile and fixed radio, cellular telephone, radar, television, and related transmitters are in general use in the project area, including police departments, fire departments, political subdivisions, utility companies, commercial carriers, private and public enterprises, and individuals.
- 15.6. **WARNING SIGNS; COSTS INCIDENTAL:** Prior to blasting operations the Contractor shall install warning signs in conformance with the MUTCD. Warning signs shall be located in prominent positions at least 1,200 feet from the point of blasting and visible to any person approaching the blasting point. Payment for furnishing, erecting and maintaining warning

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signs shall be considered incidental to other items in the Contract.

- 15.7. **DOCUMENTATION OF STRUCTURE CONDITION:** It shall be the responsibility of the Contractor to document the existing condition of all structures that have potential for damage. This documentation shall be in the form of a video or pictures, with sufficient description, and shall be supplied to the Engineer prior to any blasting on the project. The costs of preparing this documentation will not be paid for directly, but shall be considered incidental to all Contract items.
- 15.8. **BLAST SURVEYS:** The Contractor shall monitor all blasts and provide a report to the Engineer that shall indicate the Peak Particle Velocity (PPV) of the blast. The PPV sensitivity as reported shall range from less than 0.5 mm/s (0.02 in/s) to more than 125 mm/s (5.0 in/s). The Engineer reserves the right to request more than one instrument to monitor the blasting if there is a need for monitoring in more than one direction from the blasting area. The costs of the monitoring and preparing the reports will not be paid for directly, but shall be considered incidental to all Contract items.

16. PROTECTION AND RESTORATION OF UTILITIES AND SERVICES

- 16.1. **GENERAL.** The Contractor shall take proper precaution during construction to avoid damage to public and private services. These services include, but are not limited to gas, water, sewer and drainage pipes, springs, wells, septic tanks, cesspools, telephone, telegraph, television, and other communication and electrical services. Services may be located on or adjacent to the project, above, on, or under the ground, and may not be shown on the Plans.
- 16.2. **DIG-SAFE.** The Contractor shall comply with the requirements of Dig-Safe laws in the state in which the work will take place.
- 16.3. **NOTICE OF WORK.** At commencement or resumption of construction, the Contractor shall notify the owners, operators, occupants, or lessees of all the public or private services of any work to be done on, over, under, adjacent to, or in proximity to said utilities during the construction of the project. Further, the Contractor shall again notify the aforesaid parties seven (7) to fourteen (14) calendar days in advance of starting such work to enable them to take steps as they may deem necessary to protect their property or structures from damage. Provision of notice shall not relieve the Contractor of its responsibility for any damages resulting from the Contractor's work.
- 16.4. **OWNER ACCESS.** Owners, employees, or agents of public or private services located within the project limits shall be allowed free and full access with the tools, materials, and equipment necessary to install, operate, maintain, place, replace, relocate, and remove service facilities. No compensation will be paid to the Contractor for any inconvenience caused by working with these parties or around or with their services.
- 16.5. **SERVICE RELOCATION.** The exact location of any service facility relocated within the project limits shall be as directed by the Engineer.
- 16.6. **COOPERATION.** The Contractor shall cooperate with the owners of any of the aforementioned services in order that the service removal and/or relocation operation will progress in a reasonable manner, that duplication or temporary relocation work may be reduced to a minimum, and that services rendered by the concerned parties will not be unnecessarily interrupted.

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- 16.7. **SERVICE INTERRUPTION.** If in connection with the work interruption in service occurs, the Contractor shall promptly notify the owner or the owner’s authorized representative and cooperate with the owner to promptly restore service. In no case shall interruption to water or sewer service be allowed to exist outside of normal working hours without the substitution of acceptable alternate service.
- 16.8. **FIRE HYDRANTS.** No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.
- 16.9. **RESPONSIBILITY FOR DAMAGE.** The Contractor shall be responsible for all damages done to services from the beginning of construction to the satisfactory completion of the project, including all damages to water supplies and sewage systems, including but not limited to damage to springs and wells, septic tanks, cesspools, and underground pipes, whether located within or outside the project area or whether or not shown on the Plans, except as otherwise provided in the Contract.
- 16.10. **WATER; INVESTIGATION OF CLAIMS.** The SPONSOR will receive and investigate all claims relating to damage to springs, wells, and water supply systems. The Contractor will be notified of the results of the investigation. If it is determined that the damage is the responsibility of the State or the SPONSOR, the Contractor will not be liable and will be reimbursed by the State or SPONSOR for expenses incurred in providing temporary water service and repairing the damage.
- 16.11. **RESTORATION OF SERVICE BY AGENCY.** If the Contractor fails to restore a service or to make good on a damage or injury to service(s), the Engineer may proceed to repair, rebuild, or otherwise restore the service as deemed necessary and the cost thereof will be deducted from any monies due, or which may become due, the Contractor under the Contract.

17. RESPONSIBILITY FOR DAMAGE CLAIMS

These requirements are in addition to those contained in Division 1, FAA General Provisions, Section 70-11.

- 17.1. **GENERAL.** The SPONSOR shall notify the Contractor in the event of any claim or suit pursuant to the items listed in Division 1, FAA General Provisions, Section 50-16, and the Contractor shall immediately retain counsel and otherwise provide a complete defense against the entire claim or suit.

After a final judgment or settlement the Contractor may request recoupment of specific defense costs and may file suit in the Court having jurisdiction, requesting recoupment. The Contractor shall be entitled to recoup costs only upon a showing that such costs were entirely unrelated to the defense of any claim arising from an act or omission of the Contractor.

The Contractor shall indemnify the State and its officers and employees in the event that the State, its officers or employees become legally obligated to pay any damages or losses arising from any act or omission of the Contractor.

- 17.2. **SUBMISSION OF DAMAGE CLAIMS.** With regard to each and every damage claim, the Contractor shall:

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- (1) Provide the claimant with a damage claim form for the submission of damage claims to the Contractor and Agency;
- (2) Pay, settle, or otherwise resolve the claim;
- (3) Submit the claim to the insurance carrier, with a copy to the Agency;
- (4) Treat all claimants with respect.

18. SCHEDULES.

These requirements are in addition to those contained in Division 1, FAA General Provisions, Section 80.

PM PROGRESS SCHEDULE: Within ten (10) calendar days after the Award of the Contract, the Contractor shall submit to the Engineer for approval a CPM progress schedule. The CPM progress schedule shall show the proposed sequence of work and when the Contractor proposes to complete the various items of work within the time(s) established in the Contract. During the progress of the work, the Contractor shall confer with the Engineer concerning performance of the work in accordance with the approved schedule. The approved schedule shall be used as a basis for establishing major construction operations and for checking the progress of the work.

19. CHARACTER OF WORKERS, METHODS, AND EQUIPMENT

ADD the following two (2) paragraphs to the end of Section 80-05 “CHARACTER OF WORKERS, METHODS, AND EQUIPMENT” of the Division 1, FAA General Provisions:

“Electrical Work. All electrical work shall be performed by or under the supervision of a licensed electrician (master or journeyman). Electrical work shall be defined as any work which involves making connections to electrical components or splices in wiring that are, or will be, carrying 100 V or more. “Under the supervision of” means that the licensed electrician employed on the project shall be physically present on the project and must be actively supervising the work.

Removal of Machinery and Equipment. The Contractor shall not remove from the project any item of machinery or equipment after it has been placed on the project without the prior consent of the Engineer, which consent shall not be unreasonably withheld. Reasonableness shall be tested by the needs of the project and not by the needs of any other project in which the Contractor may be engaged.”

20. DEFINITIONS.

The following definitions SHALL REPLACE the definitions of the same name in Division 1, FAA General Provisions, Section 10:

10-16 CONTRACT. A written agreement between the Owner and the Contractor that establishes the obligations of the parties including but not limited to performance of work, furnishing of labor, equipment and materials and the basis of payment.

The Contract includes those documents listed as Contract Documents in the Supplemental General Provisions, and any supplemental agreements that are required to complete the work in an acceptable manner.

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10-19 CONTRACTOR. The individual, partnership, firm, or corporation primarily liable for the acceptable performance of the work contracted and for the payment of all legal debts pertaining to the work who acts directly or through lawful agents or employees to complete the contract work. The term “Contractor” means the prime Contractor as differentiated from a subcontractor. All Contractors must be registered with the Secretary of State. The Contractor will act in an independent capacity and not as officers or employees of the Owner.

10-60 SURETY. The individual, partnership, firm, or corporation, or any acceptable combination thereof, other than the Contractor, executing the bond or bonds furnished by the Contractor. The Surety Company issuing the bond(s) shall be listed on the current United States Department of the Treasury “Department of the Treasury’s listing of approved Sureties (Department Circular 570)” as authorized to do business in the State in which the project is located.

The following definitions shall be ADDED to the definitions in Division 1, FAA General Provisions, Section 10 in the:

10-67 ACCEPTANCE. All Contracts require proper acceptance of the described goods or services by the Owner. Proper acceptance shall be understood to include inspection of goods and certification of acceptable performance of services by Authorized Representative(s) of the Owner to insure that the goods or services are complete and are as specified in the Contract.

10-68 AIRPORT OPERATOR. The person or entity representing the Owner and having operational responsibility for the Airport.

10-69 CONTRACT DOCUMENTS. All the documents that comprise the awarded Contract as defined in Item 10-13 of this Section.

10-70 GOODS. Hard goods, supplies, or materials.

10-71 HE, SHE, HE/SHE, HER, HERS, HIS/HER, HIM, AND HIS. These terms shall be gender-neutral and shall be applied without regard to gender.

10-72 SUBCONTRACTOR. An individual or legal entity to whom or which the Contractor sublets part of the work. A Supplier can also be considered a Subcontractor.

10-73 SUPPLIER. An individual or legal entity with which the Contractor enters an agreement to provide Goods for use in the Project.

21. CLAIMS FOR ADJUSTMENT

21.1. NOTICE REQUIREMENTS: In order to bring a claim for additional compensation not clearly covered by the Contract for conditions substantially different than represented by the Contract and not ordered by the Engineer as Extra Work as defined herein, the Contractor must provide written notice (“the Notice of Intent to File a Claim” or the “Notice”) to the Engineer before conducting any work or purchasing any materials subject to the claim (the “Claim”). The words “Notice of Intent to File a Claim” must appear in large print at the top of the document. The Notice must specify the basis for the Claim, including the nature of the Claim, the reason why the Contractor believes that the Owner is responsible for payment of the Claim, and a description of the additional compensation, including reference to each activity associated with the work and/or materials, including reference to any impacts to the

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Contractor's Progress Schedule (Critical Path). If the Contractor fails to provide the Notice as specified herein, the Contractor waives its right to bring the Claim under the Contract.

- 21.2. **NOTICE DOCUMENTATION REQUIREMENTS:** Upon providing the Notice of Intent to File a Claim, the Project Superintendent must commence daily records for all labor hours, equipment hours (idle and operating), and materials involved with the work or materials at issue in the Notice. The Contractor must submit such records to the Engineer on a daily basis. Such records must include a written analysis of how the work and/or materials at issue in the Notice impact/s the Critical Path. If the Contractor fails to provide such records to the Engineer as required herein, the Contractor waives its right to bring the Claim.
- 21.3. **CLAIMS PROCEDURE:** The Engineer's written acknowledgement of the Notice and receipt of the Contractor's daily reporting under this Subsection shall not be construed as an approval by the Owner of the merits of the Claim. Claims are evaluated by the Resident Project Representative, the Owner, the FAA, and any other agency contributing funding to the project. If the Owner decides in favor of the Contractor, the Claim will be allowed, in whole or in part, and paid as provided in the Contract. If the Owner denies the Claim, in whole or in part, the Contractor may appeal to the Owner one time for review of the decision. Notwithstanding any other provision of law, case law, regulation, or the Contract, an appeal from the decision of the Engineer shall be made within 30 calendar days of denial, and not thereafter.
- 21.4. **CLAIMS DOCUMENTATION REQUIREMENTS:** The Contractor must provide the Engineer with the following documentation in support of the Claim:
- (1) A detailed statement of the Claim, including all necessary dates, location, and work and material items at issue in the Claim;
 - (2) The date on which the Contractor first became aware of the actions or conditions giving rise to the Claim;
 - (3) A copy of the Notice of Intent to File a Claim;
 - (4) A list of the names of all Owner employees and agents, including consultants, the Contractor believes have knowledge or information concerning the facts giving rise to the Claim;
 - (5) A list of the names of all Contractor employees and agents, including subcontractors, whom the Contractor believes have knowledge or information concerning the facts giving rise to the Claim;
 - (6) A list of the specific provisions of the Contract that the Contractor believes support the Claim, and a description of why the Contractor believes those provisions support the Claim;
 - (7) A list of all documents and all oral statements that the Contractor believes support the Claim;
 - (8) A statement as to whether additional compensation and/or a time extension are being requested in the Claim;
 - (9) If a time extension is being requested in the Claim, a statement as to the specific number of days being requested, supported with reference to how the facts underlying the Claim affected the Contractor's performance schedule, including how such facts affected the Critical Path;

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- (10) A description of the amount of additional compensation being sought, itemized by category of work, including delays associated with performing the work, work items, materials costs, and any and all other costs at issue in the Claim. Such documentation includes, but is not limited to, invoices for rented equipment, a Blue Book analysis for owned equipment; and subcontractor agreements.
- (11) If additional compensation for delays associated with performing the work is included in the Claim, the Contractor must provide a description of the operations that were delayed, the reasons for the delay, the impact of the delay on the operations, and how the delay impacted the Contractor's progress schedule, including the Critical Path. The Contractor must review the Contract for the project as claims for delays must be in accordance with the Contract terms.
- (12) For every claim seeking additional compensation in excess of \$50,000, the Contractor must provide a separate document certifying that the documentation provided in support of the Claim and that the amount of additional compensation sought in the Claim is accurate and that the Contractor has a good faith basis for believing that the Owner is responsible for payment of the Claim (the "Claims Certification"). The Claims Certification shall be notarized and executed by a senior officer of the Contractor with legal authority to bind the Contractor, or if the Contractor is a sole proprietor, by the proprietor. The Claims Certification may be used in any proceeding under the False Claims Act, 18 U.S.C. 1020, and/or 23 CFR 635.119.

21.5. APPEAL TO THE OWNER (SPONSOR): Appeals will be judged by the SPONSOR (Owner), in accordance with their policies. Should an appeal be judged in favor of the Contractor, it will be allowed and paid as provided for in the Contract. Should an appeal be denied by the SPONSOR (Owner), the Contractor may not appeal this claim again.

21.6. TIME FOR CLAIMS; APPEALS. Notwithstanding any other provision of law, case law, regulation, or the Contract, all claims by the Contractor shall be submitted in writing within thirty (30) calendar days after the Acceptance Date of the project or within thirty (30) calendar days of the Notice of Intent to File a Claim, whichever occurs first, and not thereafter (the "Claim Filing Period"). Such claims must meet the requirements set forth above, including but not limited to complete documentation supporting the Claim. If the Contractor fails to meet these requirements, the Owner may grant the Contractor additional time to meet the requirements. Any additional time granted for such purpose shall not be the subject of any demand for interest payments or for attorneys' fees and/or other costs. If the Contractor fails to file the Claim within the Claim Filing Period, the Contractor waives its right to bring the Claim. If the disputed work continues to be performed beyond the Claim Filing Period, the Contractor must submit a written request to extend the Claim Filing Period prior to the expiration of the Claim Filing Period. The Contractor shall submit such requests for extension of the Claims Filing Period every thirty (30) calendar days until the disputed work is completed.

22. INSPECTION BY OWNER AND PUBLIC AGENCIES

The authorized representatives and agents of the Owner (SPONSOR) shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. Representatives of the Owner (SPONSOR) shall have access to the work wherever it is in preparation or progress and the Contractor shall provide facilities for such access and inspection.

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23. REPORTS, RECORDS AND DATA

The Contractor shall submit to the Owner such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data, as the Owner may request concerning work performed or to be performed under this Contract.

24. GENERAL GUARANTEE

Neither the final certificate of payment nor any provision in the Contract Documents nor partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting there from, which shall appear within a period of one year of the date of final acceptance of the work unless a longer period is specified. The Owner will give notice of observed defects with reasonable promptness.

25. NOTICE AND SERVICE THEREOF

Any notice to any Contractor from the Owner relative to any part of this Contract shall be in writing and considered delivered and the service thereof completed when said notice is posted, by certified or registered mail, or by documented express packaging (UPS, Fed-Ex or other express shipping) to the said Contractor at their last given address, or delivered in person to said Contractor or their authorized representative.

26. PRE-CONSTRUCTION CONFERENCE

A Pre-construction Conference shall be held. The purpose of this conference is to go over the Contractor's proposed job organization, equipment and preliminary work schedule and to review Specification requirements. The order of construction shall be discussed with the Engineer and shall meet with their approval. The Contractor, prior to starting work, shall submit to the Engineer a written description of the methods they plan to use in doing the work.

A pre-construction conference for permitting may also be required by the Owner or the project permits. This may be concurrent with the regular pre-construction conference or separate at the discretion of the Owner.

27. REQUIRED PROVISIONS DEEMED INSERTED

Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract shall forthwith be physically amended to make such insertion or correction.

28. RECORD "AS BUILT" PLANS

In addition to any other requirements in the Plans and Specifications pertaining to "As-Built" Plans and surveys:

- 1) The Contractor shall, during the progress of the work, keep a master set of prints on the job site, on which they shall keep a careful and neat record of all deviations from the Contract Plans prepared by the Engineer which are made during the course of the work.
- 2) Upon completion of the project, these "as built" prints shall be certified as to their correctness by the signature of the Contractor and turned over to the Engineer for use in the preparation of a

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permanent set of "As Built" Plans.

29. AIRPORT OPERATIONS AND SAFETY REQUIREMENTS DURING CONSTRUCTION

The Contractor's attention is directed to the FAA Advisory Circular (AC) 150/5370-2G, OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION, as amended or superseded. Refer to Division 2, Special Provision 1A for a copy.

As applicable, the Contractor has been provided with a copy of the Construction Safety and Phasing Plan (CSPP) as part of the Division 2 documents. If no CSPP is provided, at a minimum, there will be construction safety and phasing notes and details in the plan set. For all contracts, the Contractor must review the CSPP (AND plan notes and details) and file a Safety Plan Compliance Document Certification (Form MJ-200) indicating that they understand the safety plan provisions and will comply with it throughout construction.

30. PERMITS AND APPROVALS

Refer to Division 2, Permits for any project specific permits that have been obtained. If there other permits to be obtained, it is the Contractor's responsibility to secure, obtain and pay for any Permits, Licenses, Approvals and all other legal or administrative prerequisites to their performance of the Contract.

31. LIABILITY OF PUBLIC OFFICIALS

To the full extent permitted by law, no official, employee, agent or representative of the Owner shall be individually or personally liable on any obligation of the Owner under this Contract.

32. OSHA TRAINING

All employees to be employed at the job site shall have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration (OSHA) that is ten (10) hours in duration at the time the employee begins work.

The Contractor shall furnish documentation of successful completion of said course by either a copy of the OSHA card or a letter or certificate of completion from the person or company that administered the course. OSHA documentation shall be provided prior to any person beginning work on the site. It is recommended that Contractors and Subcontractors provide a copy of OSHA documentation for all employees prior to the start of work.

Periodic Cost Estimates will not be accepted for payment unless all OSHA documentation has been received. Final payment for the Project will not be made until all Project OSHA cards have been submitted to and approved by the Engineer.

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PART D – STATE / AGENCY / AIRPORT SPECIFIC CLAUSES

1. RESPONSIBILITY FOR DAMAGE TO WORK

Except as caused by uncontrollable events, the Contractor shall bear all risk of loss relating to the Work until Final Acceptance, regardless of cause, including completed Work, temporary Structures, and all other items or Materials not yet incorporated into the Work.

The Contractor shall, at its sole expense, rebuild, repair, restore, or replace such damaged Work or otherwise make good any losses that arise from such damage ("rebuilding, etc."). If the Contractor fails to promptly commence and continue such rebuilding, etc., the SPONSOR or the SPONSOR's Airport may, upon forty-eight (48) hours advance written notice, commence rebuilding, etc. of the damaged property without liability to the SPONSOR or the SPONSOR's Airport with its own forces or with contracted forces and all costs will be deducted from amounts otherwise due the Contractor.

2. NO DAMAGES FOR DELAY CLAUSE

Pursuant to the following Subsections of Division 1, FAA General Provisions of the Contract Documents:

50-15 "Claims for Adjustment and Disputes";

70-11 "Responsibility for Damage Claims/Indemnity/Limitation of Damages";

80-06 "Temporary Suspension of the Work"

The **SPONSOR** further amends the language of those Subsections to include the following clause and shall be in effect for this project:

Notwithstanding anything to the contrary in the Contract Documents, an extension of the Contract Time shall be the Contractor's sole remedy for:

- (1) any delay in the commencement, prosecution or completion of the Work,
- (2) any hindrance or obstruction in the performance of the Work,
- (3) any loss of productivity, or
- (4) any other similar conduct (collectively "Delays") whether or not these Delays are foreseeable, contemplated or un contemplated, unless a Delay is caused by acts or omissions of the Owner or any of its representatives or agents that constitute bad faith or constitute willful, malicious or grossly negligent conduct and then only to the extent that such acts or omissions continue after the Contractor notifies the Owner in writing that it is engaged in conduct of this nature.

In no event shall the Contractor be entitled to any compensation or recovery of any monetary damages in connection with any Delay, including, without limitation, consequential damages, lost opportunity cost, impact damages or other similar remuneration. The Owner's exercise of any of its rights or remedies under the Contract Documents (including, without limitation, ordering changes in the Work, or directing suspension, rescheduling or correction of the Work), regardless of the extent or frequency of the Owner's exercise of these rights or remedies, shall not be construed as bad faith or willful, malicious or grossly negligent conduct on the part of the Owner or any of its representatives or agents.

END OF SPECIAL PROVISION/SUPPLEMENTAL GENERAL PROVISIONS

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DIVISION 2 – SPECIAL PROVISIONS

SP-1

Construction Safety and Phasing Plan (CSPP)

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**SPECIAL PROVISION 1
CONSTRUCTION SAFETY AND PHASING PLAN
(SP-1)**

A. GENERAL

Construction Safety and Phasing Plan is attached as part of the Project Documents in Special Provisions.

The Contractor shall be responsible for controlling access to the work area and that airport security is maintained at all times. The FAA can impose fines of \$10,000 or more for security violations and incursions into active aircraft operations areas. The contractor shall pay all fines assessed against the Airport due to violations caused by the Contractor and his/her personnel, subcontractors and vendors.

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CONSTRUCTION SAFETY & PHASING PLAN (CSPP)

For

Nantucket Memorial Airport (ACK)

Nantucket, MA

South Apron Sound Barrier

PREPARED FOR:



Nantucket Memorial Airport
14 Airport Road
Nantucket, Massachusetts

PREPARED BY:



125 Nagog Park, Suite 220
Acton, Massachusetts 01720
www.mjinc.com

April 2025

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Appendices

Appendix A	Key Personnel Contact List
Appendix B	Airside Construction Safety and Phasing Plan
Appendix C	Daily Safety Inspection Checklist
Appendix D	Construction Safety and Phasing Plan Checklist
Appendix E	Safety Plan Compliance Document (BLANK - TBD)



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1. PURPOSE OF THE CSPP

The Construction Safety and Phasing Plan (CSPP) serves as a companion document to the plans and specifications and has been written in compliance with FAA AC 150-5370-2G, *Operational Safety on Airports During Construction*. The subsequent sections of this document will address scheduling, coordination, and airfield safety precautions as they relate to the Project.

This CSPP has been approved by Nantucket Memorial Airport (ACK). Any proposed changes to this CSPP shall be coordinated with ACK. The Airport shall review and approve of the CSPP before proposed changes can occur. Revisions to the CSPP may delay construction and the Contractor should plan accordingly.

2. PROJECT DESCRIPTION

The Project consists of the construction of the South Apron sound barrier, selective cutting, and associated work regarding the impacted work areas. The project limits begin at the existing South Apron edge of pavement and extend approximately 40' to the northwest, as well as 1300' to the southeast. The project area is bordered by an existing tree line to the northwest and South Apron to the southeast.

The major construction elements of this project include but are not limited to; excavation, selective tree trimming and cutting as-needed, installation of sound barrier structural supports, install of sound barrier structure, and restoration of vegetation to disturbed areas.

3. COORDINATION BEFORE AND DURING CONSTRUCTION

Safety considerations are paramount during airfield construction projects. Careful planning, scheduling, and coordination of construction activities before and during construction can minimize disruption of normal aircraft operations and avoid situations that compromise the airport's operational safety.

A complete list of the project contacts, including local emergency responders, has been included in Appendix A. The Contractor will be provided an electronic copy of this list and will update it to include contact information for its staff and sub-contractors including their Construction Safety Officer. The updated list will be included in an appendix of the Contractor's Safety Plan Compliance Document (SPCD).

Prebid Meeting

- Tuesday, April 29th, 2025 at Nantucket Memorial Airport.
- The CSPP will be reviewed and discussed.
- Key attendees will include the Airport, McFarland Johnson, and Potential Bidders

Preconstruction Meeting

- Held prior to the issuance of the Notice to Proceed on Date/Time to be Determined
- The CSPP the Contractor's Safety Plan Compliance Document (SPCD) will be reviewed and discussed. The Airport will approve of the SPCD before construction can begin.
- Key Attendees will include the Airport, McFarland Johnson, Resident Project

Representative (RPR), Contractor Superintendent, and Subcontractor Representative(s).

- At least 10 days prior to the start of construction activities, the Contractor shall provide a construction schedule for the project.
- At least 10 days prior to the start of construction activities, the Airport will notify the Aircraft Rescue and Fire Fighting (ARFF) of construction.

During Construction -- Daily Coordination Meetings

- Meeting will be held prior to starting work each day and will discuss the day's activities and safety of the project site. The Contractor will communicate the following at each meeting:
 - a. Work areas where construction is active/scheduled.
 - b. Major work items to be accomplished.
 - c. Number of personnel to be on site, including subcontractors.
 - d. Type and quantity of equipment to be on site.
 - e. Any anticipated closing of facilities that will be required.
 - f. Any anticipated power outages and/or system to be inoperable including anticipated length of downtime in hours.
 - g. Other information requested by Airport Operations or RPR.
- Key attendees will include the RPR, Contractor Superintendent, and Subcontractor Representative(s) as applicable.

During Construction – Weekly Progress Meetings

- At each weekly meeting, a standing agenda item will be construction safety and project phasing.
- Key Attendees will include the Airport, McFarland Johnson, RPR, Contractor Superintendent, and Subcontractor Representative(s).
- At each of the weekly project meetings, the Contractor will be required to provide at least a 2-week “look ahead” schedule. Should the overall schedule change during the course of construction, the overall schedule will be updated and distributed at the meeting.
- ARFF shall be notified of any routes used that would be affected by the project construction or activities.

4. PHASING

The proposed construction sequencing has endeavored to minimize impacts on aircraft operations while maintaining a safe working environment during construction. To accomplish this construction is completed as a single work area. The duration of Work Area 1 is presented in Table 1 below for the proposed scheduling of the work phase. Major work activities included in each phase are presented thereafter.

The intent of this project is to begin in the Fall of 2025 and completed in the Spring of 2026. During the Fall of 2025, the Contractor will perform selective tree trimming and cutting, install drilled concrete shafts, and regrading of the impacted work area. In the Spring of 2026, the Contractor will perform selective tree trimming and cutting, install Sound Barrier structure, and regrading and restoration of the impacted work area. It is the intent to have no work performed between May 15 and Labor Day due to increased apron operations. No clearing and grubbing or removal of trees shall be permitted between April 15 and October 31.

Table 1 – Anticipated Construction Schedule

Work Area 1	Start Date	End Date	Duration (Calendar Days)
Phase 1	Fall 2025	Winter 2025	55 Days
Phase 2	Spring 2026	Spring 2026	45 Days

Calendar days are consecutive, unless otherwise noted in the Specifications. Once work has begun in an area the area must be worked continuously until the work area is complete, unless otherwise allowed by the phasing plans in Appendix B. The Contractor’s work hours will not be limited unless noted on the phasing plans in Appendix B or deemed necessary by Airport Operations or Management.

Major work activities by Work Areas

Work Area ‘1’

Work Area: Northwest of South Apron

Closures: Partial Closure of South Apron

Duration: Two Phases with 55 Consecutive Calendar Days in Fall Phase 1 and 45 Consecutive Calendar Days in Spring Phase 2, with the work hours proposed to be 7:00am-5:00pm, Mon-Fri

Liquidated Damages: \$2,500 per calendar day

Primary work to be performed in this Work Area:

- Selective tree trimming and cutting, regrading, installation drilled concrete shafts, installation of sound barrier structure, and restoration of impacted work area.

5. AREAS AND OPERATIONS AFFECTED BY CONSTRUCTION

The affected aircraft operations areas, and other Airport areas, for this project are shown on the Construction Safety and Phasing Plans located in Appendix B. The work locations for the project located within the Apron Taxilane Object Free Area will require careful coordination and advanced notification in accordance with Section 3, *Coordination Before and During Construction*.

Refer to Section 13, *Underground Utilities* for underground utilities impacted by the construction.

Contained within the tables below are anticipated operational impacts to Airport Operations throughout the course of the project. The Contractor is required to coordinate with Airport Operations and ARFF prior to starting work in the next work area and before impacting operations on the Airport.

Table 3 – Taxiway Safety Area (TSA) and Taxiway/Taxilane Object Free Area (TOFA)

Taxiway	Taxiway Design Group (TDG)	Airplane Design Group	Taxiway Safety Area Width	Taxiway Object Free Area Width	Taxiway Safety Area from Edge of 50’ Wide Taxiway Pavement
Taxiway ‘J’	3	III	118	171	34
Taxiway ‘L’	3	III	118	171	34
Apron Taxilanes	3	III	118	158	34

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CONSTRUCTION IMPACTS (WORK AREA 1)		
PROJECT	South Apron Sound Barrier	
WORK AREA	Turf Area north of South Apron pavement edge	
SCOPE OF WORK	Construction of Sound Barrier, Cutting of Selective Vegetation, and Regrading/Restoration of the Impacted Work Areas.	
OPERATIONAL REQUIREMENTS	Normal (Existing)	Work Area 1 (Anticipated)
RW 6-24 ARC	C-III	NO CHANGE
RW 6 Declared Distances	TORA: 6,303 & TODA: 6,303 ASDA: 6,303 & LDA: 6,303	NO CHANGE
RW 6 Approach Procedures	RNAV(GPS)	NO CHANGE
RW 6 NAVAIDS	PAPI-R/ MALSF/ HIRL/ CL	NO CHANGE
RW 24 Declared Distances	TORA: 6,303 & TODA: 6,303 ASDA: 6,303 & LDA: 5,766	NO CHANGE
RW 24 Approach Procedures	RNAV (GPS)	NO CHANGE
RW 24 NAVAIDS	PAPI-L/ SSALR/ HIRL/ CL/ TDZ	NO CHANGE
RW 15-33 ARC	B-II	NO CHANGE
RW 15 Declared Distances	TORA: 4,500 & TODA: 4,500 ASDA: 4,500 & LDA: 4,500	NO CHANGE
RW 15 Approach Procedures	RNAV (GPS)	NO CHANGE
RW 15 NAVAIDS	REIL/ MIRL	NO CHANGE
RW 33 Declared Distances	TORA: 4,500 & TODA: 4,500 ASDA: 4,500 & LDA: 4,500	NO CHANGE
RW 33 Approach Procedures	RNAV (GPS)	NO CHANGE
RW 33 NAVAIDS	REIL/ PAPI-L/ MIRL	NO CHANGE
Taxiways A,B,C,D,E,F,G,H,J,K,L ADG Aircraft	III	NO CHANGE
ARFF Index	A	NO CHANGE
Special Conditions	N/A	Partial Closure of South Apron.

6. NAVIGATIONAL AID (NAVAID) PROTECTION

The Airport-owned and FAA-owned NAVAIDS noted below servicing Runway 6-24 and 15-33 will not be affected. The Airport’s NAVAIDS include:

When Runway 6-24 and Runway 15-33 are operational, their associated NAVAIDS shall also be operational. The Contractor will not be permitted within the critical areas of any active NAVAID.

There shall be no construction activities, equipment operation, materials storage, or vehicle parking near any active NAVAID without notifying the RPR.

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Interference from construction equipment or activities which may affect any NAVAID for low visibility operations shall require a shutdown notification through a NOTAM. If these conditions are absolutely necessary for the construction to progress, a NOTAM will need to be issued.

If necessary, before commencing construction activities or operating construction equipment near a NAVAID, the Contractor shall coordinate, through the Airport, FAA, and Engineer to evaluate the effect of construction activity and the required distance to keep away from the NAVAID to protect it.

All construction activities near a NAVAID must not obstruct access to the equipment for maintenance by Airport personnel.

The Contractor is solely responsible for locating all existing NAVAID feeds and other utilities within the project limits. Prior to initiation of any construction in the field, the Contractor shall provide a written notice (return receipt requested) to each of the impacted utility companies, as applicable. The Contractor shall provide the Engineer/RPR with a copy of the receipt of said written notification to each of the utility companies. This requirement is in addition to any other state laws regarding public notification prior to excavation.

7. CONTRACTOR ACCESS

Site Access

Refer to the Construction Safety and Phasing plans in Appendix B for site access points, haul routes, and the Staging Area (which includes employee parking). Upon completion of the Project, the Contractor shall restore access points, haul routes, and the Staging Area to their original, pre-construction conditions.

Ingress and Egress Procedures

The Contractor is responsible for the security of the work area. The Contractor is to install Contractor-furnished locks on gates used during construction and distribute lock keys to essential Contractor personnel only. Gates will have Contractor and Airport locks chained together.

The Contractor is responsible for unlocking and locking Airport gates needed for access at the beginning and end of all shifts. The Contractor will contact the Airport each day before unlocking gates and upon leaving each day when locking gates.

During working hours, the Contractor shall control all construction access through the Airport gates at all times. While a gate is open it shall be continuously monitored by the Contractor to allow authorized personnel only access to the airfield. During non-working hours, gates shall be closed and locked.

The Contractor shall not allow any unauthorized vehicles to enter through the construction access gates. The Contractor is liable for any fines issued by the FAA and TSA for security violations.

Vehicle Operations within the AOA

All construction employee vehicles will park in the Staging Area only and are not allowed to drive

in the AOA. Airport Operations will immediately suspend all construction if;

- 1) a Contractor's or subcontractor's employee enters the AOA outside of the designated work area without authorization or
- 2) any unescorted construction vehicle operates within the AOA.

Airport Operations will allow construction work to resume only when the discrepancy is corrected.

Contractor's construction equipment will not be allowed access to portions of the Airport that have not been designated as a work area, haul route, or staging areas. Construction equipment cannot operate in areas that are open to aircraft traffic.

With the Engineer's/RPR's approval, the Contractor is permitted to stage equipment in a work area if that equipment is needed for the immediate task at hand. At the end of each day or when not in regular use during the day, all equipment shall park in the portion of the work area that is outside of controlled aircraft operations areas (RPZ, ROFA, TOFA, etc.).

Vehicle Identification

Each Contractor's motorized vehicle operating on airport property shall be equipped with an operating amber flashing beacon displayed in full view above the vehicle. The Contractor's construction equipment shall have a checkered flag. The 3' x 3' flag shall be made of 1' x 1' international orange and white squares. The flag should be placed at the highest point on the vehicle to allow for an unobstructed view of the flag. Any vehicles not meeting these criteria will be denied access to the work zones until the problem is rectified. Any vehicle operating on the movement areas during hours of darkness, or reduced visibility, must be equipped with a yellow flashing beacon, the color of which is in accordance with FAA Advisory Circular 150/5210-5D.

In addition, all Contractors vehicles operating on the airfield shall have a company placard/logo plainly visible on both sides of the vehicle in order to identify the vehicle. The signage may be applied either by using tape or a water-soluble paint to facilitate removal. Magnetic signs are also acceptable.

Radio Communications

The Contractor's supervisor/foreman and escort personnel shall continuously monitor all local air and ground traffic broadcasting on the Nantucket UNICOM radio frequency of 122.95 MHz using two-way handheld air-to-ground radios furnished by the Contractor,

Airport Security

Contractor personnel will be required to obtain an airport security badge for Nantucket Memorial Airport. As part of this badging process, personnel will be required to review airport safety procedures and learn proper driving techniques on the airport.

All personnel with regular job duties and responsibilities within the AOA, including contractors, subcontractors, vendors, and/or general workers shall be aware of airfield security and safety procedures. The Contractor shall instruct all employees entering the Airport about safe driving within the AOA and to stay clear of any active aircraft operations. If any employee does not follow the security and safety regulations, the individual may be prohibited from entering the AOA for the remainder of the Project.

Airport Operations staff regularly monitor security procedures and protocols at the Airport. All personnel and vehicles that are granted access to the AOA may be subject to random security and safety inspections conducted by law enforcement or Airport Operations staff. Random inspections may occur at anytime and anywhere on the Airport.

In addition, the Contractor will immediately notify Airport Operations of any suspicious persons or behavior near or on Airport property.

Stockpile Locations

Material stockpiles shall be located only in the Contractor's Staging Area and outside of all RPZs, ROFAs, RSAs, and TOFAs shown on the Construction Safety and Phasing Plans included in Appendix B. Stockpiles are limited to heights as described on the plans.

8. WILDLIFE MANAGEMENT

Outside of the work area, the Airport is responsible for wildlife management. Inside the work area, however, the Contractor is responsible for developing and maintaining procedures that prevent the attraction of wildlife as outlined in their SPCD. The SPCD shall be in accordance with the Airport's wildlife hazard management plan and approved by the Airport prior to construction.

The Contractor's personnel and subcontractors must be aware of and avoid construction activities that can create wildlife hazards on airports, such as:

- **Trash.** Trash shall be removed from the work areas daily and placed in a covered trash bin provided by the Contractor. The trash bin shall be located inside the staging area and emptied weekly (at a minimum) by the Contractor. Should the Airport determine this frequency be inadequate, the Contractor will be asked to increase trash removal to two or more times weekly.
- **Standing Water.** Standing water shall not stand for more than 48 hours. The Contractor will take precautions and have ready, at no additional cost to the project, a pump to remove standing water from the project area by pumping to the nearest outfall location.
- **Grass.** The Contractor is responsible for maintaining the staging, parking, and work areas free from tall stands of grass. Grass in these areas shall not be over 14 inches in height. When it reaches 14 inches tall, the Contractor shall mow to a height no taller than 7 inches. The Airport may require the Contractor to collect grass clippings.
- **Poorly Maintained Fencing and Gates.** The Airport conducts periodic perimeter fence and gate inspections to ensure they are functioning correctly to keep wildlife from entering the AOA. The Contractor shall operate those gates used for construction access in accordance with Section 7 to prevent wildlife from entering the AOA.
- **Disruption of Existing Wildlife Habitat.** While construction makes this unavoidable, the Contractor shall immediately notify the Airport by phone of any wildlife sighting within the AOA. The Airport, not the Contractor, is responsible for harassing wildlife from the AOA.

9. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

Description of FOD

FOD at airports includes any object found in an inappropriate location that can damage aircraft,

equipment, or airport personnel. Related to construction, FOD is typically loose gravel, blowing sand, wire bristles from sweeper heads, food wrappers, and material packaging. The presence of FOD in the AOA poses a significant threat to air travel as it has the potential to damage aircraft during critical phases of flight. This can lead to catastrophic loss of life and/or aircraft. As such, everyone inside the AOA is responsible for removal of FOD immediately regardless of its origin.

Contractor's Responsibilities for Managing FOD

- The Contractor shall maintain a clean project site free of FOD.
- All construction personnel will secure any FOD regardless of its source that could be carried by wind into the AOA.
- To reduce the risk of FOD, all construction vehicles shall not drive on grass/dirt and then drive on airfield pavement.
- The Contractor shall furnish and retain at the construction site, equipment for the removal of FOD from airfield pavement. The Contractor shall use a street sweeper or vacuum truck to clean airfield pavement closed to aircraft prior to re-opening them. The Airport has final authority on the acceptance of cleaned pavements and areas prior to re-opening them to aircraft.

Contractor's Responsibilities for Controlling Dust

- The Contractor shall be responsible for dust control within the Staging Area and work areas and along any construction access road of this Project. The operation of runways, taxiways, and associated NAVAIDs are especially sensitive to dust.
- The Contractor shall furnish and retain at the construction site, equipment for the application of water to control dust within the construction site and on haul roads. The equipment shall be equipped with a shut-off control valve controlled by the driver/operator. The Contractor shall apply water for dust control as necessary to prevent dust from the construction site and/or haul roads from being a hazard to aircraft and from being a nuisance or hazard to the flying public as directed by the Engineer.
- The Engineer reserves the right to suspend construction activities to bring dust under control.

10. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

The Contractor's SPCD shall address the management of hazardous and non-hazardous waste in accordance FAA AC 150/5320-15A, *Management of Airport Industrial Waste*. The management plan shall address such issues as fuel deliveries, spill recovery procedures, availability of Material Safety Data Sheets (MSDS), and other considerations.

Other HAZMAT requirements:

- All construction vehicles shall be fueled only in the Staging Area.
- Any vehicles transporting fuel or potentially harmful substances shall be equipped with a spill control plan and required decontamination equipment as required by Federal, State and local regulations.
- The Contractor will immediately notify the Airport Manager by phone of all spills, regardless of quantity spilled.

11. NOTIFICATION OF CONSTRUCTION ACTIVITIES

Contact List and Emergency Notification

A list of Airport, Engineer, and Contractor personnel and emergency contacts is in Appendix A. The primary contact for construction activities is the Resident Project Representative. The contacts for the Airport will be as assigned by Airport Management.

Construction Schedule

The Contractor shall be required to submit a construction schedule per the specifications (General Provision 80-03) at least 10 days prior to the start of work.

Notification to FAA

Any construction project that affects navigable airspace, as defined in Part 77, must notify the FAA. This includes construction equipment and proposed parking areas for this equipment on airports. FAA Form 7460-1, *Notice of Proposed Construction or Alteration*, can be used for this purpose. The Contractor must submit a plan to the Engineer showing where construction equipment reaching higher than 25 feet will be used and parked and stockpiles greater than 10 feet above ground level will be located. Should the Contractor want to stockpiled materials to exceed 10 feet tall, they will be required to submit Form 7640-1 electronically through the FAA's OE/AAA website to receive a determination letter and must be acceptable to the FAA PM prior to construction.

Cranes and other equipment taller than 25 feet (i.e. concrete pumpers, etc.) cannot be deployed without a Form 7460-1 approval determination letter. All equipment booms shall be lowered at the close of each day's work or when stored. If the height of the equipment exceeds 25 feet, a Form 7460-1 approval determination letter must be obtained. The Engineer, on behalf of the Airport, will submit a Form 7460-1 electronically for construction equipment with a maximum height of 25 feet tall.

Notification to Pilots

The Notice to Air Missions (NOTAM) system provides essential information to personnel concerned with flight and airport operations. NOTAMs provide timely information on unanticipated or temporary changes to components of or hazards to the National Airspace System, which includes temporary closure of runways.

The Airport will issue all NOTAMs for the temporary closure of any portion of the airfield. The FAA will issue all NOTAMs for temporary FAA-owned NAVAID service outages and Flight Procedures changes. This project does not anticipate issuance of any NOTAMs.

Notification to Airport Users

The Airport has been in contact with airport users and key stakeholders and will continue to keep them informed during construction. ARFF will be notified of any construction and any conditions that may adversely affect the operational safety of the airport.

12. INSPECTION REQUIREMENTS

FOD Inspections

The Contractor shall keep the project site and vehicles clean by employing a “clean as you go” approach during construction. The entire work area is to be inspected for FOD periodically throughout the workday and at the end of each day’s work.

Daily Inspections

- The Contractor, Airport Operations, and the RPR will conduct joint daily airfield inspections. All airfield-paved areas, safety areas, and airfield lighting will be inspected to ensure safe operations.
- Before leaving the site each day, the Contractor shall inspect all traffic control devices to ensure they are in the proper location and good working order. The Contractor should complete the daily safety checklist found in Appendix C of this document or Appendix D of FAA Advisory Circular 150/5370-2G. The Contractor shall provide an emergency contact for maintenance of traffic control devices after work hours.

Work Area Reopening Inspections

As soon as the work in a phase is completed, the area shall be cleaned and made available for inspection. Pavements must be free of all dirt, sand, gravel, wire bristles or any other objects that could cause damage to aircraft engines. All soil areas must be free of dirt clods, ruts, or surface irregularities that could damage an aircraft should it leave the pavement. All airfield lighting and appropriate NAVAIDs shall be in good working order.

Prior to re-opening work areas and pavements to aircraft operations, the Contractor shall coordinate a joint inspection with Airport Operations and the RPR. Upon acceptance by Airport Operations and the RPR shall be re-opened.

Final Inspection

Coordinate with Airport Operations and the RPR the final inspection to determine if the work within a given phase is substantially complete to re-open and generate the punch list.

13. UNDERGROUND UTILITIES

Locations of utilities and underground cables shown are based on record documents and field survey. The accuracy of the utility locations is not guaranteed, nor warranted to be complete.

Prior to commencement of any excavation, the Contractor shall verify utility locations. The Contractor will contact Dig Safe or a Private Utility Locator to delineate all utilities (even if all construction is “Airside”) a minimum of seven (7) days prior to any excavation work.

The Contractor will coordinate all work on and in the vicinity of the underground utilities and cables with the RPR and Airport Operations.

Should the Contractor damage any underground utilities, the Contractor will suspend all construction activity and notify the RPR, who will in turn notify Airport Operations. The Contractor shall then repair or replace the underground utility immediately prior to continuing any other work at his or her expense to the satisfaction of the RPR.

14. PENALTIES

The penalty for non-compliance with the Airport's driving rules, regulations and/or safety plans may be suspension of driving privileges and/or suspension of all airport access.

During working hours, the Contractor is responsible for controlling access to the work area and ensuring that the security of all construction gates is maintained at all times. The FAA can impose fines of \$10,000 or more for security violations of the AOA.

The Contractor shall pay all fines assessed against the Airport due to violations caused by the Contractor and his/her personnel, subcontractors, and vendors.

The airport has a zero-tolerance approach to FOD, and the Contractor may be subject to fines from the Airport, FAA, or other agencies for failure to properly manage FOD during construction.

15. SPECIAL CONDITIONS

Aircraft in Distress

Airport Operations, the RPR, and/or the Contractor Superintendent will immediately clear all construction personnel of all runways and approach areas upon monitoring a distress call on the CTAF/UNICOM frequency.

Aircraft Accident

All construction personnel will immediately vacate airport property and remain off until cleared by the Airport. If an accident involves the Contractor, emergency authorities, the Airport shall be contacted and all construction personnel not involved in the accident will immediately vacate airport property and remain off until cleared by the Airport.

Runway Incursion

A runway incursion is an occurrence at an airport involving the incorrect presence of an aircraft, vehicle or person on the protected area of a surface designated for the landing and takeoff of aircraft. here are four categories of runway incursions:

- Category A is a serious incident in which a collision was narrowly avoided.
- Category B is an incident in which separation decreases and there is a significant potential for collision, which may result in a time critical corrective/evasive response to avoid a collision.
- Category C is an incident characterized by ample time and/or distance to avoid a collision.
- Category D is an incident that meets the definition of runway incursion, such as incorrect presence of a single vehicle/person/aircraft on the protected area of a surface designated for the landing and take-off of aircraft, but with no immediate safety consequences.

Incursions will be prevented by thorough training of ground vehicle operators; radio communication; coordination among all parties; and clearly marking the boundaries of construction operations established in this safety plan. In the event of a runway incursion, all construction personnel will immediately go to the Staging Area and remain until cleared to return to work by Airport Operations or Management. Construction related runway incursions will be

subject to penalties as described in Section 14, *Penalties*.

Vehicle / Pedestrian Deviation (V/PD)

Airport Operations or Management may temporarily suspend construction in the event of a non-construction related V/PD.

Blasting Operations

Blasting will not be allowed on this project.

Non-aircraft Emergencies

In the event of an emergency requiring an immediate medical, fire, and/or police response the Contractor shall call 911 and then Airport Operations.

16. RUNWAY AND TAXIWAY VISUAL AIDS

Closures will use temporary lighted runway closure markers and low-profile lighted barricades to delineate the closed pavements. Refer to Appendix B for details.

Temporary Taxiway Closures:

Partial closure of South West Apron as outlined in the phasing plans in Appendix B.

Closures will use low-profile barricades as outlined in Section 18, *Hazard Marking and Lighting*.

Runway Obstacle Free Zone (ROFZ):

The Contractor will delineate work areas that abut the Runway Object Free Zone, or other aircraft protection areas identified, with traffic cone/stake delineation or barricades, as indicated on Airside phasing plan, or other measures acceptable to Airport Operations or the RPR.

Taxiway Visual Aids:

The Contractor shall provide temporary “jumpers”, if required, to keep portions of ataxiway edge light system operational in order to bypass closed portions of a taxiway. Where temporary jumpers are impractical, the Contractor will cover edge lights with sections of PVC to prevent light emission.

Guidance signs on taxiways, which are to be closed for the entire phase duration, shall be covered or disconnected from its power supply. Guidance signs for taxiways and/or runways guidance signs for phases having a daily closure on consecutive days shall also be covered or disconnected from their power supply.

Temporary Pavement Markings:

No temporary pavement markings will be required for this project.

17. MARKINGS AND SIGNS FOR ACCESS ROUTES

Prior to the start of construction, the Contractor shall place construction traffic signage along Public R.O.W. in accordance with the MUTCD and a temporary stop sign on the construction

access road at the intersection with Public R.O.W. The construction access road does not need to be marked.

The Contractor shall place lighted low-profile barricades, orange snow fence, flagging, or other approved devices adjacent to active aircraft areas to restrict construction traffic from entering areas open to aircraft. The Contractor shall provide additional markings or signs if the RPR or Airport Operations determines a potential safety issue needs to be addressed.

18. HAZARD MARKING AND LIGHTING

Construction low-profile barricades will be used to delineate all closed construction airfield movement areas from the active aircraft. Barricades shall be provided as shown in the Construction Safety and Phasing Plan Details sheet in Appendix B. These devices will delineate closed pavement that are not available to air traffic and will ensure that the Contractor's vehicles will not interfere with any airport operations. Barricades shall be weighted to protect against inadvertent movement from wind currents or prop/jet wash. These materials will be securely fastened to prevent FOD.

For night-time closures, low-profile barricades shall be used per the phasing details.

Barricades will be used, as required, to limit vehicle movement from active aircraft areas. The Contractor shall maintain all barricades as required and will have an "On-Call" person available for 24 hours/day, for emergency maintenance.

19. PROTECTION OF AREAS, ZONES, & SURFACES

Any construction-related Runway Incursion will require immediate suspension of all construction activity on the airport until a thorough investigation of the cause is completed. Any construction related delay costs will be the Contractor's responsibility.

The Airport will remain open during the project. Construction equipment will not penetrate any approach or departure surface. See Section 11, *Notification of Construction Activities*, for 7460 case file information.

All Safety Areas (SAs), Object Free Areas (OFAs) and Obstacle Free Zones (OFZs) of open aviation pavement will be protected from construction activity using the temporary barricades described in Section 18, Hazard Marking & Lighting, and as depicted on Phasing Plans and in Appendix B.

The existing perimeter fence is the Airport's secure perimeter and must remain intact. Any relocation efforts required for the fence shall be planned to minimize the time the fence is removed. While the fence is being removed and relocated the Contractor shall provide a watch to ensure there is no breach of the perimeter.

The Contractor will be responsible to instruct all workers and subcontractors on where travel is permitted on the Airport property. The Contractor will also instruct all subcontractors on the

vehicle identification requirements as described in Section 7, *Contractor Access*.

Open trenches or excavations are not permitted within the safety area adjacent to active Runways or Taxiways. All trenching and excavation must be backfilled, covered by a heavy-duty road plate, or smoothly transitioned to existing grade before the Runway or Taxiway me be opened.

20. OTHER LIMITS ON CONSTRUCTION

Smoking is prohibited within the AOA.

The use of open flame welding or torches is prohibited, unless fire safety precautions are provided and Airport Operations has approved their use.

Night work procedures must be approved by Airport Operations and sufficient lighting must be provided to ensure a comparable degree of accuracy, workmanship, and conditions regarding safety as would be obtained in daylight. Nighttime construction shall comply with 2.21 of AC 150/5370-2G.

21. AIRPORT WATCH PROGRAM

An “Airport Watch Program” will be established to visually remind all Airport employees, users, and tenants of their role in maintaining a safe and secure Airport. If you see something suspicious, report it to Airport Operations immediately. With the willing assistance of many watchful eyes and alert ears, the Airport will remain a safe and secure environment for all Airport users, employees, contractors, and the general public.

APPENDIX A

KEY PERSONNEL CONTACT LIST

Last Modified: 04/18/2025 at 12:56PM EDT

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**CSPP Appendix A – Key Personnel Contact List
KEY PERSONNEL CONTACT LIST**

Emergency: (24-hour line) 911

Name	Waren Smith, Airport Manager	ACK Airport
Office:	(508) 325-7531	14 Airport Road
E-Mail:	wsmith@nantucketairport.com	Nantucket, MA 02554

Name	McFarland Johnson, Engineer
	Resident Project Representative (RPR)
Office:	TBD
E-mail:	TBD

Name	CONTRACTOR	Contractor Name
	Project Manager	TBD
Office:	TBD	TBD
E-mail:	TBD	TBD

Name	CONTRACTOR	Contractor Name
	Superintendent	TBD
Office:	TBD	TBD
E-mail:	TBD	TBD

UNICOM Frequency: 122.95 MHz

Police	Nantucket Police Headquarters
Non Emergency:	508-228-1212
Emergencies:	911

Fire/EMS	Nantucket Fire Department
Non Emergency:	508-228-2323
Emergencies:	911

Hospital	Nantucket Cottage Hospital
Non Emergency:	508-825-8100
Emergencies:	911

Last Modified: 04/18/2025 at 12:56PM EDT

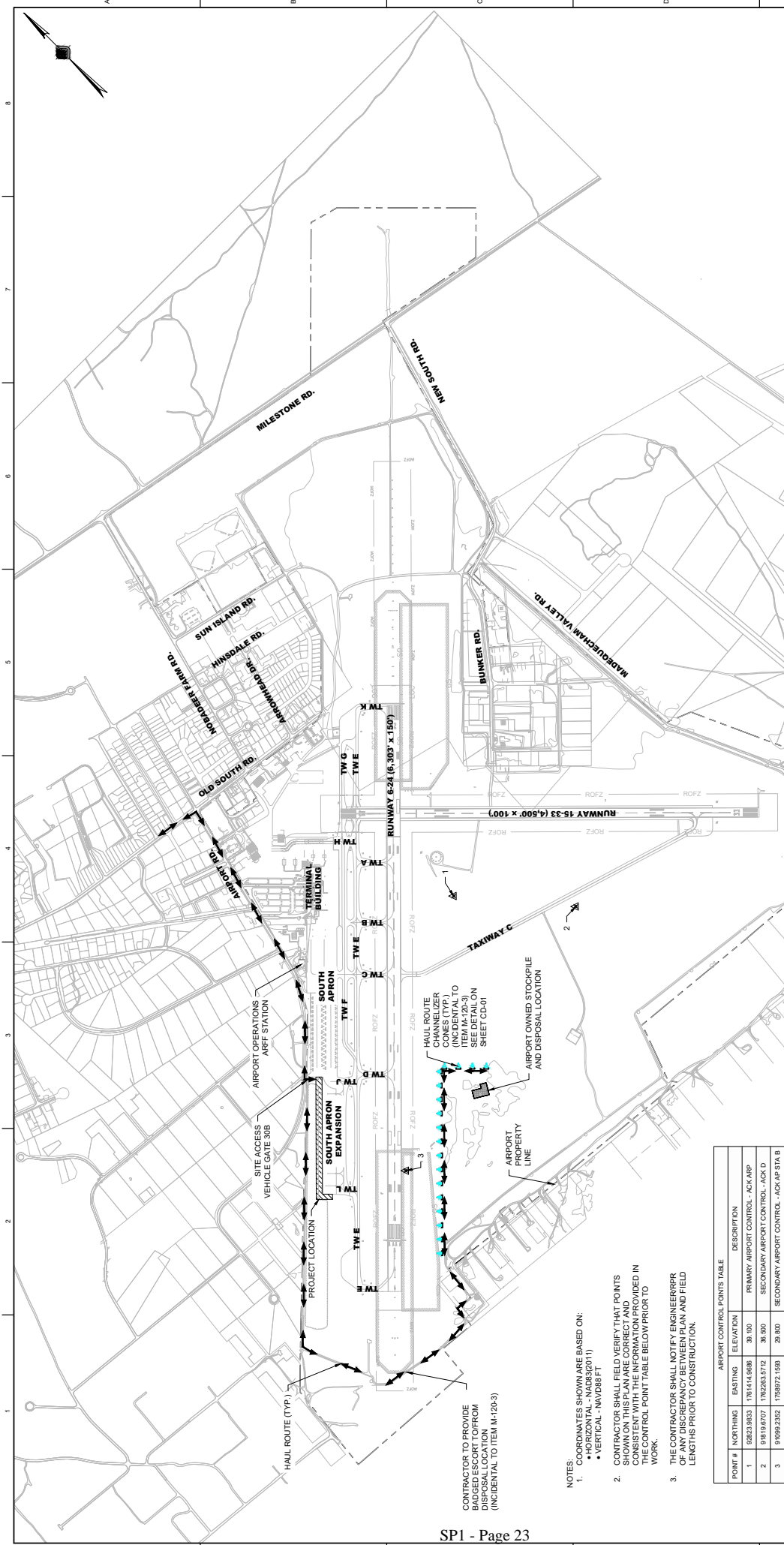
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APPENDIX B

AIRSIDE CONSTRUCTION SAFETY AND PHASING PLANS

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CONTRACTOR TO PROVIDE BADGED ESCORT TO/FROM DISPOSAL LOCATION (INCIDENTAL TO ITEM M-120-3)

- NOTES:
- COORDINATES SHOWN ARE BASED ON:
 - HORIZONTAL - NAD83(2011)
 - VERTICAL - NAVD83 FT
 - CONTRACTOR SHALL VERIFY THAT POINTS SHOWN ON THIS PLAN ARE CORRECT AND PROVIDE FIELD VERIFICATION OF ALL CONTROL POINT TABLE BELOW PRIOR TO WORK.
 - THE CONTRACTOR SHALL NOTIFY ENGINEER/RR OF ANY CHANGES IN FIELD LENGTHS PRIOR TO CONSTRUCTION.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	92823.8833	1781414.0866	38.100	PRIMARY AIRPORT CONTROL - ACK ARP
2	91919.0707	1782263.5712	38.500	SECONDARY AIRPORT CONTROL - ACK D
3	91998.2352	1782872.1583	29.800	SECONDARY AIRPORT CONTROL - ACK AP STA B

- LEGEND
- HAUL ROUTE ARROW
 - GATE GUARD
 - WORK AREA
 - LOW PROFILE BARRICADE
 - PROJECT LOCATION
 - HAUL ROUTE CHANNELIZER CONE

BID DOCUMENTS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO PREPARE ANY DRAWING OR SPECIFICATION FOR THE ARCHITECTURE, ENGINEERING, OR LAND SURVEYING PROFESSIONS. ANY PERSON WHO VIOLATES THIS PROVISION SHALL BE SUBJECT TO THE PENALTIES PROVIDED BY LAW. THE DATE OF SUCH VIOLATION SHALL BE THE DATE OF THE SIGNATURE OF THE PERSON.

NANTUCKET MEMORIAL AIRPORT
 NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER
GENERAL PLAN

SCALE: 1" = 500'	DESIGN: LAB
DRAWN: LAB	PROJECT: 194E08
CHECKED: DMP	DATE: APRIL 2025

McFARLAND JOHNSON
 125 NAGOS PARK, SUITE 220
 ACTON, MASSACHUSETTS 01720

REV	DATE	DESCRIPTION	BY

11. THE CONTRACT DOCUMENTS SHALL CONSIST OF THE CONFORMED CONTRACT PLANS, AND CONFORMED CONTRACT SPECIFICATIONS, THAT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- TABLE OF CONTENTS;
• INVITATION TO BID;
• INSTRUCTIONS TO BIDDERS;
• BID PROPOSAL (WRITTEN SAMPLE PROPOSAL & BID DOC IN ENGLISH);
• BID BOND;
• AWARD OF CONTRACT AND EXECUTION OF CONTRACT BONDS;
• CONTRACT AGREEMENT;
• PERFORMANCE BOND;
• PAYMENT OF AWARD;
• NOTICE TO PROCEED;
• CONTRACTOR'S WARRANTY;
• SPECIAL PROVISIONS;
• FAA - GENERAL PROVISIONS;
• TECHNICAL SPECIFICATIONS;
• PLANS;
• ADDENDUMS; and
• AND OTHER DOCUMENTS AS REFERENCED IN THE GENERAL PROVISIONS.

12. THE BIDDER IS EXPECTED TO CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE GENERAL PROVISIONS, TECHNICAL SPECIFICATIONS, SUPPLEMENTAL/SPECIAL PROVISIONS, AND PROPOSAL, FRONTEND DOCUMENTS, BIDDING REQUIREMENTS, CONTRACT DOCUMENTS, AND REQUIREMENTS OF THE PROPOSED CONTRACT. THE SUBMISSION OF A PROPOSAL SHALL BE A PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK AND AS TO THE REQUIREMENTS OF THE PROPOSED CONTRACT, PLANS, AND SPECIFICATIONS.

13. PORTS OF THE BORING LOGS AND LABORATORY TEST RESULTS PERFORMED ON SOIL SAMPLES OBTAINED FROM THE SOIL BORINGS ARE BEING PROVIDED FOR YOUR USE AND REFERENCE (REFER TO SPECIAL PROVISIONS SECTION OF SPECIFICATION). IT IS UNDERSTOOD AND AGREED THAT ALL BORERS, IS FURTHER UNDERSTOOD AND AGREED THAT EACH BORER SHALL BE RESPONSIBLE FOR ALL ASSUMPTIONS, DEDUCTIONS, OR CONCLUSIONS WHICH THEY MAY MAKE OR OBTAIN FROM THEIR EXAMINATION OF THE BORING LOGS AND OTHER RECORDS OF SURFACE INVESTIGATIONS AND TESTS THAT ARE FURNISHED BY THE OWNER.

14. THIS IS A UNIT PRICE PROJECT. REFER TO TECHNICAL SPECIFICATIONS FOR THE METHOD OF MEASUREMENT AND PAYMENT FOR INDIVIDUAL WORK ITEMS. ITEMS OF WORK REQUIRED BUT NOT COVERED BY SPECIFICATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

2. THE OWNER WILL DESIGNATE AN AIRPORT OPERATIONS MANAGER. THE AIRPORT OPERATIONAL MANAGER SHALL HAVE THE SOLE AUTHORITY TO OPEN AND CLOSE FACILITIES, ISSUE AND CANCEL NOTAMS, AND TO COORDINATE WITH AIRPORT USERS.

2.2. THERE MAY BE MULTIPLE AIRFIELD CONSTRUCTION PROJECTS OCCURRING CONCURRENTLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL WORK FOR THIS PROJECT WITH OTHER CONTRACTORS TO MINIMIZE IMPACTS TO AIRPORT OPERATIONS.

3. AIRPORT SECURITY

3.1. THIS PROJECT IS INSIDE THE SECURED AIRSIDE OF THE AIRPORT. REVIEW CONSTRUCTION SAFETY AND FLYING PLANS AND COORDINATE WITH AIRPORT SECURITY REQUIREMENTS. THIS INCLUDES BUT IS NOT LIMITED TO AIRPORT IDENTIFICATION BADGES FOR EMPLOYEES, CONTROL ACCESS (GATES) ENTERING THE SECURE AREA (GATE GUARDS), RESTRICTING MOVEMENT WITHIN THE RESTRICTED AREA TO APPROVED HALL ROUTES AND WORK AREAS, PROVIDING ESCORTS, CROSSING GUARDS, AND MEETING ALL AIRPORT SECURITY REQUIREMENTS AND PROTOCOLS.

3.3. THE FAA CAN IMPOSE FINES OF \$10,000 OR MORE FOR SECURITY VIOLATIONS AND INCURSIONS INTO ACTIVE AIRCRAFT OPERATION AREAS. THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND HIS/HER PERSONNEL, SUBCONTRACTORS AND VENDORS.

3.4. VISUAL INSPECTION OF THE SECURED AREAS THROUGH A GATE. EACH VEHICLE IS SUBJECT TO INSPECTION BY AIRPORT SECURITY STAFF. AIRPORT SECURITY WILL MAKE EVERY EFFORT FOR TIMELY INSPECTIONS; HOWEVER, DELAYS ARE LIKELY TO OCCUR.

3.5. THE GATE GUARD SHALL DOCUMENT THE NAME, PURPOSE AND TIME OF VEHICLES ENTERING AND THE TIME OF THEIR DEPARTURE FROM THE SECURED AREA. WHEN NOT IN ACTUAL USE, ACCESS GATES SHALL BE CLOSED AND LOCKED.

3.6. CONTRACTORS SHALL INSTRUCT SUPPLIERS, AND SUBCONTRACTORS ON ACCESS PROCEDURES TO BE FOLLOWED.

3.7. ALL SECURITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, TSA, AND THE FAA, SEE CONSTRUCTION SAFETY AND PHASING PLAN.

4. AIRPORT OPERATIONS AND SAFETY REQUIREMENTS

4.1. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO AS TO AVOID COMPLETE UNRESTRICTED ACCESS BY EMERGENCY EQUIPMENT AND PERSONNEL AT ALL TIMES.

4.2. NORMAL AIRPORT OPERATIONS WILL BE CONDUCTED DURING CONSTRUCTION. THE CONTRACTOR'S WORK SHALL BE CONDUCTED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE SAFETY OF OPERATING AIRCRAFT AS WELL AS THEIR OWN EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL FOLLOW THE CSPP DEVELOPED FROM FAA ADVISORY CIRCULAR 150/5370-2 "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", LATEST VERSION, AND THE REQUIREMENTS SET FORTH IN THE PROJECT'S FAA APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP).

9.2. ANY EXISTING PAVEMENTS USED FOR HALL ROUTES SHALL BE VIDEOED AND INSPECTED BY THE CONTRACTOR TO DOCUMENT PRE-CONSTRUCTION CONDITION. ALL IMPROVEMENTS TO PAVED SURFACE AND RESTORATION OF THE PAVED SURFACE TO EQUAL OR BETTER CONDITION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

9.3. THE CONTRACTOR SHALL DELINEATE ALL HALL ROUTES WITH ANCHORED CHANNELIZER CONE OR OTHER MEANS THAT IS ACCEPTABLE TO THE RPR AT NO ADDITIONAL COST TO THE OWNER.

9.4. THE CONTRACTOR SHALL PROVIDE FIRMED TO THE RPR AT NO ADDITIONAL COST TO THE OWNER. DEVICES INCLUDING BUT NOT LIMITED TO: STOP SIGNS, CONSTRUCTION ENTRANCE SIGNS, TRAFFIC CONTROL SIGNS, AND TRAFFIC CONTROL SIGNS. THE CONTRACTOR SHALL PROVIDE FIRMED TO THE RPR AT NO ADDITIONAL COST TO THE OWNER.

9.5. THE CONTRACTOR SHALL PROVIDE FIRMED TO THE RPR AT NO ADDITIONAL COST TO THE OWNER. THE SPEED LIMIT FOR THE EXISTING SUPER HIGHWAY IS 55 MPH MAXIMUM.

9.6. ALL VEHICLES ENTERING OR EXITING THE WORK SITE SHALL BE INSPECTED AND CLEANED (CLEANED FOREIGN OBJECT DEBRIS (FOD)). AS REQUIRED, THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AS DETAILLED ON THE PLANS.

9.7. THE CONTRACTOR SHALL HAVE A WORKING VACUUM SWEEPER ON THE SITE AT ALL TIMES TO SWEEP PAVEMENTS IN THE WORK AREAS AND HALL ROUTES TO CONTINUALLY REMOVE DUST AND MATERIAL SHALAGE. WHEN DIRECTED BY THE RPR, VACUUM SWEEPING OPERATOR SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

9.8. IF REQUIRED BY THE RPR, THE CONTRACTOR SHALL HAVE ON SITE A WATER TRUCK FOR THE PURPOSE OF CONTROLLING DUST ON HALL ROUTES. THE CONTRACTOR SHALL TAKE A PREVENTIVE APPROACH TO PREVENTING DUST BY KEEPING HALL ROUTES MOIST AT ALL TIMES. WHEN DIRECTED BY THE RPR, DUST CONTROL MITIGATION SHALL COMMENCE WITHIN THIRTY (30) MINUTES. DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND BE APPLICABLE AT NO ADDITIONAL COST TO THE OWNER.

9.9. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED, COMPLY WITH ALL LAWS, RULES, REGULATIONS AND ORDINANCES AS APPLICABLE AT NO ADDITIONAL COST TO THE OWNER.

10. SCHEDULES REQUIRED

10.1. IN ADDITION TO THE OVERALL SCHEDULE THE CONTRACTOR SHALL PROVIDE A WRITTEN TWO (2) WEEK LOOK AHEAD SCHEDULE. THE FIRST WEEK ON THE LOOK AHEAD SCHEDULE SHALL BE CONSIDERED THE MOST RIGID. THE OWNER RESERVES THE RIGHT TO DESALOW WORK IF NOT ON THE CURRENT WEEK'S SCHEDULE AND IF PROPER COORDINATION HAS NOT TAKEN PLACE WITH THE AIRPORT STAKE HOLDERS. THE TWO WEEK LOOK AHEAD SCHEDULE SHALL BE WEEKLY PREPARED AND PRESENTED TO STAKE HOLDERS AT THE WEEKLY SCHEDULED JOB MEETING.

10.2. EACH MORNING A TAGGATE MEETING SHALL OCCUR BETWEEN THE CONTRACTOR, THE RPR AND THE OWNER'S PROJECT REPRESENTATIVE. THE INTENT OF THIS MEETING IS TO VERBALLY REVIEW THE WORK AND ACTIVITIES PROPOSED FOR THAT DAY.

11. CONTRACTORS STAGING AREA AND EMPLOYEE PARKING

11.1. THE CONTRACTOR SHALL USE THE AREAS SHOWN ON THE PLANS FOR THEIR STAGING AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL IMPROVEMENTS AND RESTORATION OF THE DESIGNATED AREAS(S), SUCH AS CLEARING AND GRUBBING, GRADING, AND CONSTRUCTION OF GRAVEL ACCESS ROADS AND STORAGE AREAS, SECURITY FENCING AND OTHER WORK THAT ARE NECESSARY FOR THE UTILIZATION OF THE AREA AT NO ADDITIONAL COST TO THE OWNER.

11.2. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRASH PICK UP GENERATED BY THE PROJECT. TRASH RECEPTACLES SHALL BE PROVIDED AND SECURED.

11.3. REST ROOMS/FACILITIES ARE TO BE PROVIDED AND MAINTAINED BY THE CONTRACTOR WITHIN DESIGNATED AREAS AND WITHIN THE ACTIVE WORK AREAS WITH THE PERMISSION OF THE OWNER.

11.4. AT THE COMPLETION OF THE PROJECT, THE STAGING AREA SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITION AS DETERMINED BY THE OWNER AND RPR AT NO ADDITIONAL COST TO THE OWNER.

11.5. NO CONTRACTOR WORKERS WILL BE ALLOWED TO PARK PERSONAL CARS WITHIN THE RESTRICTED AREA (INSIDE THE AIRPORT FENCE). CONTRACTOR WORKERS ARE REQUIRED TO USE THE DESIGNATED EMPLOYEE PARKING AREA.

12. CONSTRUCTION LAYOUT AND ASSISTANCE TO THE RPR

12.1. THE ENGINEER SHALL PROVIDE BOTH HORIZONTAL AND VERTICAL CONTROL POINTS FOR USE BY THE CONTRACTOR AS SHOWN ON SHEET GN-02. PRIOR TO LAYOUT, THE CONTRACTOR SHALL VERIFY THE CONTROL POINTS AND SATISFY TO THEMSELVES AS TO THE LOCATION OF THE CONTROL POINTS. THE LAYOUT FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12.2. THE CONTRACTOR SHALL FURNISH ASSISTANCE TO THE ENGINEER/RPR AS REQUESTED TO CHECK THE LAYOUT OR WORK IN PROGRESS. SUCH ASSISTANCE SHALL BE UNDERSTOOD TO INCLUDE THE PROVISION OF SUITABLE MANPOWER TO ASSIST THE ENGINEER/RPR IN TAPING MEASUREMENTS, SURVEY FOR CHECKING GRADES AND THE LIKE. THE CONTRACTOR'S OBLIGATIONS FOR LAYOUT, SURVEY AND FURNISHING ASSISTANCE TO THE ENGINEER/RPR SHALL BE LIMITED TO THE ACTS SPECIFICALLY MENTIONED HEREIN. THE CONTRACTOR AND NO SEPARATE PAYMENT WILL BE MADE FOR SUCH LAYOUT, SURVEY AND ASSISTANCE.

13. CONTRACTOR QUALITY CONTROL

13.1. THE CONTRACTOR SHALL ESTABLISH A QUALITY CONTROL PROGRAM TO PERFORM INSPECTION AND TESTING OF ALL ITEMS OF WORK REQUIRED BY TECHNICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO: CONCRETE, REINFORCING STEEL, STEEL, AND ALL OTHER ITEMS. ALL INSPECTIONS SHALL BE CONDUCTED BY THE CONTRACTOR'S QUALITY CONTROL PERSONNEL. THE CONTRACTOR SHALL ENSURE CONFORMANCE TO APPLICABLE SPECIFICATION AND FUNCTIONAL PERFORMANCE. THE QUALITY CONTROL PROGRAM SHALL BE EFFECTIVE FOR CONTROL OF ALL CONSTRUCTION WORK PERFORMED UNDER THIS CONTRACT AND SHALL SPECIFICALLY INCLUDE SURVEILLANCE AND TESTING OF ALL ITEMS OF WORK REQUIRED BY TECHNICAL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO: CONCRETE, REINFORCING STEEL, STEEL, AND ALL OTHER ITEMS. THE CONTRACTOR SHALL ESTABLISH AN EFFECTIVE LEVEL OF QUALITY CONTROL.

14. DISPOSAL OF SURPLUS EXCAVATED SOILS

14.1. ALL UNSUITABLE EXCAVATED MATERIAL, ALL UTILITY (WATER, SEWER, TEL/DATA, & DRAINAGE) CONDUITS AND PIPES, ALL BITUMINOUS ELECTRICAL PAVEMENT, ALL PORTLAND CEMENT CONCRETE PAVEMENT, AND ALL CONDUIT AND ELECTRICAL WIRE SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR ON AIRPORT PROPERTY AS DIRECTED BY THE OWNER AND THE ENGINEER/RPR. CONTRACTOR SHALL CONFORM WITH ENGINEER/RPR AND OWNER PRIOR TO DISPOSAL OF ANY SUITABLE EXCAVATED MATERIAL.

14.2. ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE UTILIZED ON SITE OR DISPOSED OF BY THE CONTRACTOR AT A LOCATION AS DIRECTED BY THE OWNER AND THE ENGINEER/RPR IN DESIGNATED DISPOSAL SITES ON AIRPORT PROPERTY. THE HEIGHTS OF PILES SHALL NOT PENETRATE ANY PROTECTED AIR SPACE. SEPARATE DISPOSAL SITES WILL BE MADE FOR: PILES OF CONCRETE, PILES OF REINFORCING STEEL, PILES OF STEEL, PILES OF ASPHALT, PILES OF PILES, PILES TESTING AND DETERMINATION OF PILES. PILES SHALL BE CONSIDERED BY OTHERS. DISPOSING OF SURPLUS SUITABLE MATERIAL IN DISPOSAL SITES SHALL BE PERFORMED INCIDENT TO THE EXCAVATION OF THE MATERIAL. CONTRACTOR SHALL CONFORM WITH THE ENGINEER/RPR AND OWNER PRIOR TO DISPOSAL OF ANY SUITABLE EXCAVATED MATERIAL.

14.3. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE DISPOSAL OF UNSUITABLE MATERIALS OF AIRPORT PROPERTY AT NO ADDITIONAL COST TO THE OWNER. AT THE OWNERS OR RPR REQUEST, COPIES OF DOCUMENTATION DETAILING THE LAWFUL DISPOSAL OF MATERIALS OFF AIRPORT PROPERTY SHALL BE PROVIDED.

15. ENVIRONMENTAL PROTECTIONS AND REQUIREMENTS

15.1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES IN REGARD TO THE PROTECTION OF THE ENVIRONMENT AND NATURAL RESOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE APPROPRIATE AGENCIES.

15.2. THE CONTRACTOR SHALL LIMIT GROUND DISTURBANCE TO THE AREA WITHIN THE LIMITS OF REGRADING, HALL ROUTES, STAGING AREAS (AND SURPLUS MATERIAL DISPOSAL SITES). ANY INADEQUATE GROUND DISTURBANCE BEYOND THE PROJECTS LIMITED CAUSED BY THE CONTRACTOR AND THEIR PERSONNEL, SUBCONTRACTORS, AND VENDORS SHALL BE REPORTED TO THE ENGINEER/RPR.

15.3. MATERIALS AND EQUIPMENT USED ON THIS PROJECT SHALL BE CLEANED PRIOR TO SITE WORK TO MINIMIZE THE SPREADING OF INVASIVE SPECIES.

15.4. FOR SPITE TOPSOIL IS REQUIRED. THE CONTRACTOR SHALL REVIEW WITH THE ENGINEER/RPR THE TOPSOIL (PREFERABLE KNOWN TO STRIPPINGS) TO MINIMIZE THE SPREADING OF INVASIVE SPECIES.

15.5. THE AIRPORT DOES HAVE AREAS OF KNOWN ELEVATED LEVELS OF POLYCHLORINATED BIPHENYLS (PCBS) CONTAMINATION. PRIOR TO EXCAVATION THE AIRPORT WILL TEST THE SOIL AND DETERMINE THE LEVELS OF PCBS PRESENT IN THE SOILS. IF LOW LEVELS ARE DETECTED, THE SUITABLE SURPLUS MATERIAL WILL BE DISPOSED IN THE NON-PPAS DISPOSAL SITE. SOILS DETERMINED TO HAVE HIGH LEVELS OF PCBS SHALL BE DISPOSED IN THE PPAS DISPOSAL SITE.

BID DOCUMENTS

Table with columns: REV, DATE, DESCRIPTION, BY

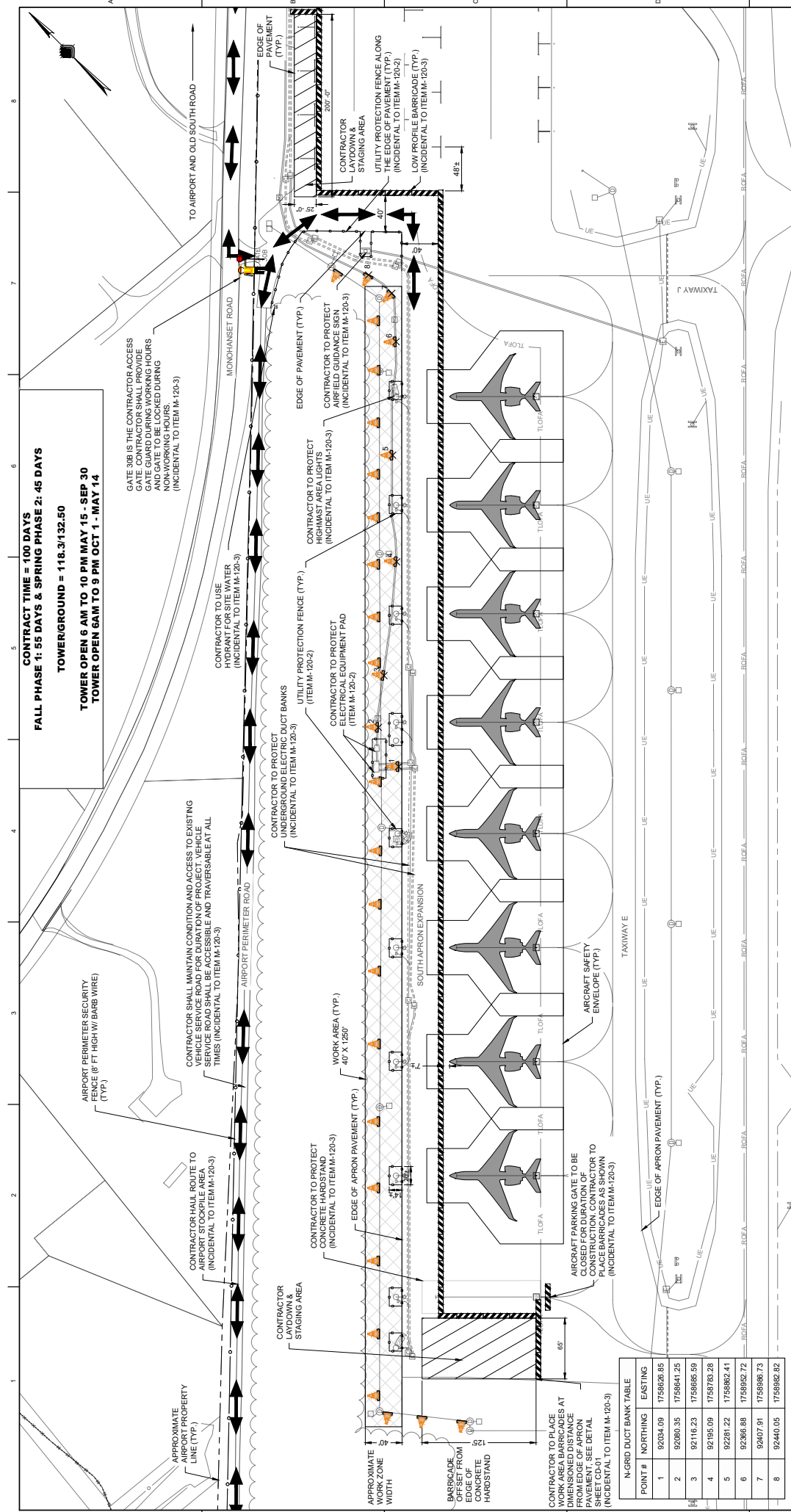


125 NAGOS PARK, SUITE 220
ACTON, MASSACHUSETTS 01710

NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS

SOUTH APRON SOUND BARRIER
GENERAL NOTES

Table with columns: SCALE, DESIGN, DRAWN, CHECKED, LAB, PROJECT, DATE



FALL PHASE 1: 55 DAYS & SPRING PHASE 2: 45 DAYS
CONTRACT TIME = 100 DAYS
TOWER/GROUND = 118.3/132.50
TOWER OPEN 6 AM TO 10 PM MAY 15 - SEP 30
TOWER OPEN 6AM TO 9 PM OCT 1 - MAY 14

GATE 30B IS THE CONTRACTOR ACCESS
 GATE GUARDIAN SHALL PROVIDE
 GATE GUARDIAN DURING WORKING HOURS
 (INCIDENTAL TO ITEM M-120-3)
 NON-WORKING HOURS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR SHALL MAINTAIN CONDITION AND ACCESS TO EXISTING
 VEHICLE SERVICE ROAD FOR DURATION OF PROJECT. VEHICLE
 SERVICE ROAD SHALL BE ACCESSIBLE AND TRAVERSABLE AT ALL
 TIMES (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR SHALL ROUTE TO
 AIRPORT STOCKPILE AREA TO
 (INCIDENTAL TO ITEM M-120-3)

APPROXIMATE
 AIRPORT PROPERTY
 LINE (TYP.)

CONTRACTOR TO PROTECT
 UNDERGROUND ELECTRIC DUCT BANKS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 UNDERGROUND ELECTRIC DUCT BANKS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 AIRFIELD GUIDANCE SIGN
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 HIGHMAST AREA LIGHTS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 AIRFIELD GUIDANCE SIGN
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 HIGHMAST AREA LIGHTS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 AIRFIELD GUIDANCE SIGN
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 HIGHMAST AREA LIGHTS
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 AIRFIELD GUIDANCE SIGN
 (INCIDENTAL TO ITEM M-120-3)

CONTRACTOR TO PROTECT
 AIRFIELD GUIDANCE SIGN
 (INCIDENTAL TO ITEM M-120-3)

IN-GRID DUCT BANK TABLE

POINT #	NORTHING	EASTING
1	92834.09	1758626.85
2	92860.35	1758641.25
3	92116.23	1758685.59
4	92195.09	1758703.28
5	92281.22	1758882.41
6	92365.88	1758952.72
7	92407.91	1758986.73
8	92440.05	1758982.82

- LEGEND
- HAUL ROUTE ARROW
 - GATE GUARDIAN
 - WORK AREA
 - LOW PROFILE BARRICADE
 - CONTRACTOR STAGING AREA
 - UTILITY DELINEATION MARKER
 - UTILITY PROTECTION FENCE

- NOTES:
- CONTRACTOR SHALL REFER TO THE GENERAL NOTES ON SHEET GN-01 FOR CONSTRUCTION SAFETY AND PROVIDE UTILITY PROTECTION FENCE FOR HAUL ROUTE FROM ACCESS LOCATION TO THE WORK ZONE AS NOTED IN GENERAL NOTES AND HEREIN ON THIS SHEET. SEE ADDITIONAL DETAILS ON SHEET CD-01.
 - REFER TO THE DETAILS OF THE LOW-PROFILE CONSTRUCTION BARRIER ON SHEET CD-01.
 - REFER TO THE UTILITY PROTECTION FENCE DETAILS ON SHEET CD-01 FOR CONSTRUCTION.
 - IF NECESSARY, THE CONTRACTOR SHALL COORDINATE WITH THE WATER SUPPLIER FOR PERMISSION TO USE THE WATER SYSTEM AND BE DIRECTED TO THE APPLICABLE HYDRANT AND ITS REQUIREMENTS (I.E. METER, BACKFLOW PREVENTION, ETC.).

BID DOCUMENTS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO REPRODUCE OR TRANSMIT ANY INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. THE DATE OF SUCH REPRODUCTION OR TRANSMISSION SHALL BE THE DATE OF REPRODUCTION OR TRANSMISSION.

NANTUCKET MEMORIAL AIRPORT
 NANTUCKET, MASSACHUSETTS
SOUTH APRON SOUND BARRIER
CONSTRUCTION SAFETY AND PHASING PLAN

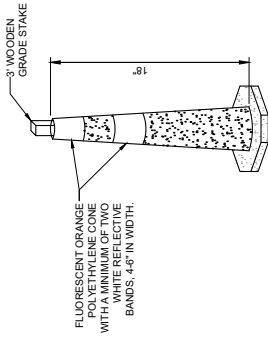
REV	DATE	DESCRIPTION	BY

McFARLAND JOHNSON
 125 NAGOS PARK, SUITE 220
 ACTON, MASSACHUSETTS 01720

SCALE: 1" = 50'
 DRAWN: LAB
 PROJECT: 194E08
 CS-01
 CHECKED: DMP
 DATE: APRIL 18, 2025
 6 OF 13

WORK AREA	DESCRIPTION OF WORK	CALENDAR DAYS	CLOSURES	LIQUIDATED DAMAGES
1 (BASE BID)	SELECTIVE TREE TRIMMING & CUTTING, INSTALLATION OF CONCRETE DRILLED SHAFTS AND SOUND BARRIER WALL	161 TOTAL PHASE 1: 15 DAYS PHASE 2: 45 DAYS	SMALL PORTION OF SOUTH APRON	\$2,000 DAILY

BASE BID TOTAL CONTRACT TIME: 100 CALENDAR DAYS

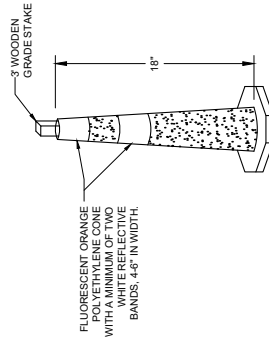


HAUL ROUTE CHANNELIZER CONE NOTES:

1. CHANNELIZER CONES SHALL BE SPACED AT 25' ON CENTER IN ALL LOCATIONS.
2. CONTRACTOR SHALL MAKE FREQUENT INSPECTIONS OF THE CHANNELIZER CONES AND SHALL RELOCATE ANY CONES THAT ARE MISALIGNED.
3. CHANNELIZER CONES SHALL BE FREQUENTLY SECURED TO WITHSTAND HIGH WINDS AND/OR JET BLAST.

HAUL ROUTE CHANNELIZER CONE DETAIL

NOT TO SCALE
(INCIDENTAL TO ITEM M-120-3)



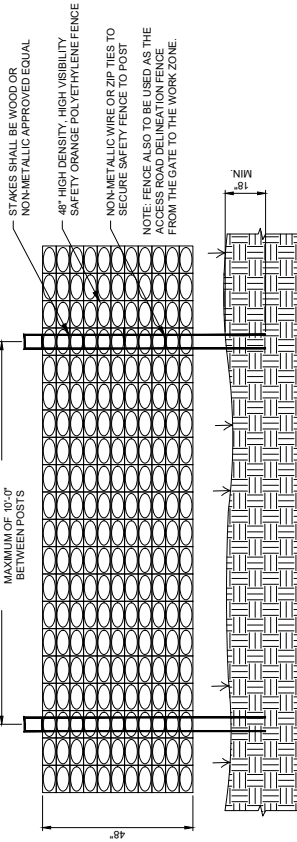
UTILITY DELINEATION MARKER NOTES:

1. MARKER CONES SHALL BE SPACED AT 50' ON CENTER TO PROTECT THE UNDERGROUND UTILITIES SUCH AS DRAINAGE PIPES AND CABLES.
2. CONTRACTOR SHALL MAKE FREQUENT INSPECTIONS OF THE MARKER CONES AND SHALL RELOCATE ANY CONES THAT ARE MISALIGNED.
3. MARKER CONES SHALL BE ADEQUATELY SECURED TO WITHSTAND HIGH WINDS AND/OR JET BLAST USING GRADE STAKES AS SHOWN.
4. RELOCATION AND REMOVAL OF UTILITY DELINEATION MARKERS AS DIRECTED BY THE RPR IS INCIDENTAL TO ITEM M-120-3.

UTILITY DELINEATION MARKER

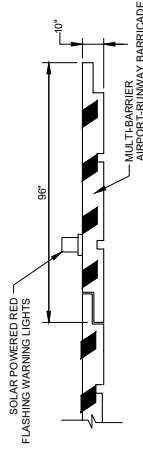
NOT TO SCALE
(INCIDENTAL TO ITEM M-120-3)

POST SPACING DEPENDENT UPON EXISTING GRADES AND POSTS BETWEEN POSTS



UTILITY PROTECTION FENCE

NOT TO SCALE
(ITEM M-120-2)



LOW PROFILE CONSTRUCTION BARRICADE NOTES:

1. PLACE BARRICADES CONTINUOUSLY ACROSS PAVEMENT TO WITHIN LIMITS AS SHOWN ON PLANS.
2. CONTRACTOR SHALL CHANGE HOPE WITH WHITE REFLECTIVE BANDS (OR APPROVED EQUAL).
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL BARRICADES THROUGH THE PROJECT DURATION.

LOW PROFILE CONSTRUCTION BARRICADE DETAIL

NOT TO SCALE
(INCIDENTAL TO ITEM M-120-3)

GENERAL AVIATION BARRICADE NOTES:

1. THE RPR AND ACK OPERATIONS WILL HAVE FINAL DETERMINATION WHERE EACH TYPE OF BARRICADE (LOW PROFILE, CHANNELIZER CONES, UTILITY MARKERS, ETC.) SHALL BE PLACED.
2. BARRICADES SHALL BE PLACED AS SHOWN ON THIS SHEET OR APPROVED EQUAL.
3. BARRICADES OR CHANNELIZER CONES SHOWN ON THIS SHEET OR APPROVED EQUAL SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF FAA ADVISORY CIRCULAR 130/370-20 (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
4. ACK OPERATIONS MAINTAINS A SMALL SUPPLY OF LIGHTED CONSTRUCTION BARRICADES FOR CONTRACTOR USE. BARRICADES SHALL BE ACK OPERATIONS SUPPLIED TO THE GREATEST EXTENT POSSIBLE. IT IS ANTICIPATED THE CONTRACTOR WILL BE REQUIRED TO PURCHASE BARRICADES FOR THE REMAINDER OF THE PROJECT.
5. CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF THE BARRICADES/CONES TO ENSURE LIGHTS ARE OPERATING EVERY NIGHT.

BID DOCUMENTS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO PREPARE ANY DRAWING OR SPECIFICATION FOR THE DESIGN OF A PROJECT WITHOUT BEING REGISTERED AS A PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. ANY PERSON WHO VIOLATES THIS PROVISION SHALL BE SUBJECT TO PENALTY AS PROVIDED BY LAW. THE DATE OF SUCH VIOLATION SHALL BE THE DATE OF THE LAST REVISION TO THE DRAWING OR SPECIFICATION.

NANTUCKET MEMORIAL AIRPORT
NANTUCKET, MASSACHUSETTS

SOUTH APRON SOUND BARRIER

CONSTRUCTION SAFETY AND PHASING DETAILS

SCALE: N.T.S.	DESIGN: LAB
DRAWN: LAB	PROJECT: 194E08
CHECKED: DMP	DATE: APRIL 18, 2025
	CD-01
	7 OF 13

REV	DATE	DESCRIPTION	BY



125 NAGOG PARK, SUITE 220
ACTON, MASSACHUSETTS 01720

APPENDIX C

DAILY SAFETY INSPECTION CHECKLIST

Last Modified: 04/18/2025 at 12:56PM EDT

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CONSTRUCTION PROJECT DAILY SAFETY INSPECTION CHECKLIST

(Taken from AC 150/5370-2G Appendix D)

The situations identified below are potentially hazardous conditions that may occur during airport construction projects. Safety area encroachments, unauthorized and improper ground vehicle operations, and unmarked or uncovered holes and trenches near aircraft operating surfaces pose the most prevalent threats to airport operational safety during airport construction projects.

Potentially Hazardous Conditions

Item	Action Required (Describe)	No Action Required (Check)
Excavation adjacent to runways, taxiways, and aprons improperly backfilled.		
Mounds of earth, construction materials, temporary structures, and other obstacles near any open runway, taxiway, or taxi lane; in the related Object Free area and aircraft approach or departure areas/zones; or obstructing any sign or marking.		
Runway resurfacing projects resulting in lips exceeding 3 inch (7.6 cm) from pavement edges and ends.		
Heavy equipment (stationary or mobile) operating or idle near AOA, in runway approaches and departures areas, or in OFZ.		
Equipment or material near NAVAIDs that may degrade or impair radiated signals and/or the monitoring of navigation and visual aids. Unauthorized or improper vehicle operations in localizer or glide slope critical areas, resulting in electronic interference and/or facility shutdown.		
Tall and especially relatively low visibility units (that is, equipment with slim profiles) — cranes, drills, and similar objects — located in critical areas, such as OFZ and approach zones.		
Improperly positioned or malfunctioning lights or unlighted airport hazards, such as holes or excavations, on any apron, open taxiway, or open taxi lane or in a related safety, approach, or departure area.		

Last Modified: 04/18/2025 at 12:56PM EDT

<p>Obstacles, loose pavement, trash, and other debris on or near AOA. Construction debris (gravel, sand, mud, paving materials) on airport pavements may result in aircraft propeller, turbine engine, or tire damage. Also, loose materials may blow about, potentially causing personal injury or equipment damage.</p>		
<p>Inappropriate or poorly maintained fencing during construction intended to deter human and animal intrusions into the AOA. Fencing and other markings that are inadequate to separate construction areas from open AOA create aviation hazards.</p>		
<p>Improper or inadequate marking or lighting of runways (especially thresholds that have been displaced or runways that have been closed) and taxiways that could cause pilot confusion and provide a potential for a runway incursion. Inadequate or improper methods of marking, barricading, and lighting of temporarily closed portions of AOA create aviation hazards.</p>		
<p>Wildlife attractants — such as trash (food scraps not collected from construction personnel activity), grass seeds, tall grass, or standing water — on or near airports.</p>		
<p>Obliterated or faded temporary markings on active operational areas.</p>		
<p>Misleading or malfunctioning obstruction lights. Unlighted or unmarked obstructions in the approach to any open runway pose aviation hazards</p>		
<p>Failure to issue, update, or cancel NOTAMs about airport or runway closures or other construction related airport conditions.</p>		
<p>Failure to mark and identify utilities or power cables. Damage to utilities and power cables during construction activity can result in the loss of runway / taxiway lighting; loss of navigation, visual, or approach aids; disruption of weather reporting services; and/or loss of communications.</p>		
<p>Restrictions on ARFF access from fire stations to the runway / taxiway system or airport buildings.</p>		

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Lack of radio communications with construction vehicles in airport movement areas.		
Objects, regardless of whether they are marked or flagged, or activities anywhere on or near an airport that could be distracting, confusing, or alarming to pilots during aircraft operations.		
Water, snow, dirt, debris, or other contaminants that temporarily obscure or derogate the visibility of runway/taxiway marking, lighting, and pavement edges. Any condition or factor that obscures or diminishes the visibility of areas under construction.		
Spillage from vehicles (gasoline, diesel fuel, oil) on active pavement areas, such as runways, taxiways, aprons, and airport roadways.		
Failure to maintain drainage system integrity during construction (for example, no temporary drainage provided when working on a drainage system).		
Failure to provide for proper electrical lockout and tagging procedures. At larger airports with multiple maintenance shifts/workers, construction contractors should make provisions for coordinating work on circuits.		
Failure to control dust. Consider limiting the amount of area from which the contractor is allowed to strip turf.		
Exposed wiring that creates an electrocution or fire ignition hazard. Identify and secure wiring, and place it in conduit or bury it.		
Site burning, which can cause possible obscuration.		
Construction work taking place outside of designated work areas and out of phase.		

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APPENDIX D

SAFETY PLAN COMPLIANCE DOCUMENT

Last Modified: 04/18/2025 at 12:56PM EDT

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SPECIAL PROVISION 1A

**FAA ADVISORY CIRCULAR 150/5370-2G
OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION
(SP-1A)**

**INFORMATION PROVIDED FOR REFERENCE ONLY
DOCUMENT NOT INCLUDED**

DOCUMENT AVAILABLE AT:

https://www.faa.gov/documentLibrary/media/Advisory_Circular/150-5370-2G.pdf

Contractor shall be familiar with the provisions of this document.

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DIVISION 2 – SPECIAL PROVISIONS

SP-2

Geotechnical Report

Geotechnical Explorations and Data Reporting Services

Proposed Noise Barrier, Nantucket Memorial Airport

Prepared by S. W. Cole Engineering, Inc. dated January 13, 2025

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DATA REPORT

24-0833 S

January 13, 2025

Geotechnical Explorations and Data Reporting Services

Proposed Noise Barrier
Nantucket Memorial Airport
Nantucket, Massachusetts

Prepared For:

McFarland-Johnson, Inc.
Attention: Dhruv Patel
53 Regional Drive
Concord, New Hampshire 03301

Prepared By:

S. W. Cole Engineering, Inc.
227 Wompanoag Trail
Riverside, Rhode Island 02915
P: 401.438.7711

www.swcole.com | info@swcole.com

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2.0 EXPLORATION AND TESTING	2
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4.2 L-Pile Parameters	4
5.0 CLOSURE	5
Appendix A	Limitations
Appendix B	Figures
Appendix C	Exploration Logs & Key
Appendix D	Laboratory Test Results

24-0833 S

January 13, 2025

McFarland-Johnson, Inc.
Attention: Dhruv Patel
53 Regional Drive
Concord, New Hampshire 03301

Subject: Geotechnical Explorations and Engineering Services
Proposed Noise Barrier
Nantucket Memorial Airport
Nantucket, Massachusetts

Dear Dhruv:

In accordance with our revised Proposal, dated October 31, 2024 we have performed subsurface explorations for the subject project. This report summarizes our findings and geotechnical recommendations and its contents are subject to the limitations set forth in Appendix A.

1.0 INTRODUCTION

1.1 Scope and Purpose

The purpose of our services was to obtain subsurface information at the site in order to provide geotechnical data relative to foundations associated with the proposed construction. Our scope of services included test boring explorations, soils laboratory testing, and preparation of this data report.

1.2 Site and Proposed Construction

The site is located near the south apron of Nantucket Memorial Airport in Nantucket, Massachusetts. The site is within the gated airport perimeter where the terrain is generally flat and has been recently cleared of trees and vegetation.

This phase of the project consists of a proposed noise barrier located adjacent to the south apron expansion project. The noise barrier will be approximately 1,230 feet long. The final configuration of the barrier has not yet been determined; however, we

understand that the conceptual height is 18 feet and the bottom of the barrier will be located on an earthen berm. We anticipate that the proposed noise barrier will be supported by drilled shaft foundations that are constructed of reinforced cast-in-place concrete.

Proposed and existing site features are shown on the “Exploration Location Plan” provided in Appendix B.

2.0 EXPLORATION AND TESTING

2.1 Explorations

Seaboard Drilling, LLC drilled nine test borings (B-1 to B-9) and installed one groundwater observation well at the site on December 9 to 12, 2024. The boring and well locations were selected and established in the field by McFarland-Johnson, Inc. The borings were drilled to depths ranging from 32 to 37 feet below the existing ground surface using case-and-wash drilling methods. A 1-inch-diameter groundwater observation well was installed in B-1, which was the first boring to be drilled in the exploration program.

The approximate boring locations are shown on the “Exploration Location Plan” provided in Appendix B. Logs for the borings and a key to the notes and symbols used on the logs is provided in Appendix C.

2.2 Field Testing

Soil sampling and Standard Penetration Testing (SPT) were performed at the existing ground surface, 2 feet below the surface, and at 5-foot-intervals thereafter using a 1-3/8-inch-inner-diameter split spoon sampler. SPT blow counts are shown on the logs.

2.3 Laboratory Testing

Select soil samples from the test borings were returned to our laboratory for grain size distribution, moisture content, and organic content testing. Grain size distribution, moisture content test results are provided in Appendix D. Moisture content test results are noted on the test boring logs.

3.0 SUBSURFACE CONDITIONS

3.1 Soil and Bedrock

Below a surficial layer of topsoil, subsurface conditions were generally comprised of a native deposit of sand. Bedrock was not encountered within the drilled depths of the test

borings. The principal strata encountered in the test borings are summarized below; refer to the logs for more detailed subsurface information.

Topsoil – A 12 to 24-inch-thick layer of topsoil was encountered at the existing ground surface at all the test boring locations.

Native Sand – A native deposit of sand was encountered beneath the topsoil at all test boring locations. The native sand deposit was generally comprised of tan to white fine to medium sand that contained lesser amounts of silt and gravel. The sand deposit was typically loose to medium dense though occasional very loose zones were present. Each test borings terminated in the native sand at depths ranging from 32 to 37 feet below the existing ground surface.

3.2 Groundwater

Soil samples generally transitioned from moist to wet at an approximate depth of 15 feet below the existing ground surface. Water level measurements in the groundwater observation well installed at test boring B-1 ranged from 15.1 to 15.8 feet below the existing ground surface during the exploration period.

Long term groundwater information is not available. It should be anticipated that groundwater levels will fluctuate, particularly in response to periods of snowmelt and precipitation, as well as changes in site use.

4.0 GEOTECHNICAL DATA

4.1 NCRS Soil Classification

Soil samples within the upper 12 feet of the existing ground surface were classified in accordance with Natural Resources Conservation Service (NRCS) guidelines as presented below:

NRCS SOIL CLASSIFICATION					
Exploration	Depth (ft)	Soil Type	Exploration	Depth (ft)	Soil Type
B-1	2 to 4	Sand	B-5	2 to 4	Sand
B-2	2 to 4	Sand	B-6	0 to 2	Sand
B-3	2 to 4	Sand	B-6	10 to 12	Sand
B-4	2 to 4	Sand	B-7	10 to 12	Sand
B-4	5 to 7	Sand	B-8	10 to 12	Sand
B-4	10 to 12	Sand	B-9	5 to 7	Sand

4.2 L-Pile Parameters

We understand that your office will perform a lateral loading evaluation using proposed noise barrier and earthen berm configurations. Top of foundation loads and allowable lateral deflections will be determined as part of your evaluation. The existing soils should provide full passive resistance when the shaft foundations achieve 1/2 inch of lateral movement. Increased shaft length is expected with greater amounts of allowable lateral deflections. Based on the subsurface findings, lateral loading design parameters for use with L-Pile software are presented below for your consideration:

RECOMMENDED LATERAL LOADING DESIGN PARAMETERS FOR LPILE								
Top (ft)	Bottom (ft)	Stratum	Soil Model	k (pci)	γ (pcf)	c (psf)	e50	ϕ (deg)
Earthen Berm								
+0	0	Sand, Loose (Dry)	Sand (Reese)	25	115	-	-	32
Native Sand Deposit								
0	-13	Sand, Loose (Dry)	Sand (Reese)	25	115	-	-	32
-13	-37	Sand, Loose (Wet)	Sand (Reese)	20	52.6	-	-	32

Earthen berms are typically configured to have a narrow, horizontally graded bench at the top of the berm before sloping downward to the surrounding ground surface. Based on our experience with L-Pile, we understand that the software does not accommodate this type of slope configuration. We recommend that the berm surface be modeled using the slope of the straight line that extends from the outside edge of the foundation to the toe of the berm.

5.0 CLOSURE

It has been a pleasure to be of assistance to you with this phase of your project. We look forward to working with you during the construction phase of the project.

Sincerely,

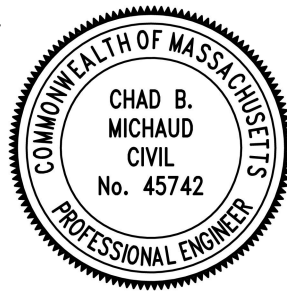
S. W. Cole Engineering, Inc.

Aaron L. Smart, P.E.
Senior Geotechnical Engineer

Chad
Michaud

Digitally signed
by Chad Michaud
Date: 2025.01.14
09:24:47 -05'00'

Chad B. Michaud, P.E.
Executive Vice President



ALS:cbm

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APPENDIX A

Limitations

This report has been prepared for the exclusive use of McFarland-Johnson, Inc. for specific application to the proposed noise barrier project at Nantucket Memorial Airport in Nantucket, Massachusetts. S. W. Cole Engineering, Inc. (S.W.COLE) has endeavored to conduct our services in accordance with generally accepted soil and foundation engineering practices. No warranty, expressed or implied, is made.

The soil profiles described in the report are intended to convey general trends in subsurface conditions. The boundaries between strata are approximate and are based upon interpretation of exploration data and samples.

The analyses performed during this investigation and recommendations presented in this report are based in part upon the data obtained from subsurface explorations made at the site. Variations in subsurface conditions may occur between explorations and may not become evident until construction. If variations in subsurface conditions become evident after submission of this report, it will be necessary to evaluate their nature and to review the recommendations of this report.

Observations have been made during exploration work to assess site groundwater levels. Fluctuations in water levels will occur due to variations in rainfall, temperature, and other factors.

S.W.COLE's scope of services has not included the investigation, detection, or prevention of any Biological Pollutants at the project site or in any existing or proposed structure at the site. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Recommendations contained in this report are based substantially upon information provided by others regarding the proposed project. In the event that any changes are made in the design, nature, or location of the proposed project, S.W.COLE should review such changes as they relate to analyses associated with this report. Recommendations contained in this report shall not be considered valid unless the changes are reviewed by S.W.COLE.

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APPENDIX B

Figures



LEGEND

☉ APPROXIMATE BORING LOCATION

NOTES:

1. EXPLORATION LOCATION PLAN PREPARED FROM ORTHOIMAGERY TITLED "MASSACHUSETTS 2023 AERIAL IMAGERY," PROVIDED BY THE MASSGIS.
2. THE BORING LOCATIONS WERE SELECTED BY MCFARLAND JOHNSON AND LOCATED IN THE FIELD BY S. W. COLE ENGINEERING, INC. USING A MAPPING GRADE GPS RECEIVER.
3. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH THE ASSOCIATED S. W. COLE ENGINEERING, INC. GEOTECHNICAL REPORT.
4. THE PURPOSE OF THIS PLAN IS ONLY TO DEPICT THE LOCATION OF THE EXPLORATIONS IN RELATION TO THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION AND IS NOT TO BE USED FOR CONSTRUCTION.



MCFARLAND-JOHNSON, INC.

EXPLORATION LOCATION PLAN

PROPOSED NOISE BARRIER
NANTUCKET MEMORIAL AIRPORT

Job No.	24-0833	Scale	1" = 100'
Date:	12/23/2024	Sheet	1

APPENDIX C

Exploration Logs and Key



BORING LOG

BORING NO.: B-1
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/9/2024
DATE FINISH: 12/9/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15.1 ft 12/10/2024 15.8 ft 12/11/2024 15.9 ft 12/12/2024

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 Water Level
 ▽ At time of Drilling
 ▾ At Completion of Drilling
 ▿ After Drilling
 D = Split Spoon Sample
 U = Thin Walled Tube Sample
 R = Rock Core Sample
 V = Field Vane Shear
 Pen. = Penetration Length
 Rec. = Recovery Length
 bpf = Blows per Foot
 mpf = Minute per Foot
 WOR = Weight of Rods
 WOH = Weight of Hammer
 RQD = Rock Quality Designation
 PID = Photoionization Detector
 S_v = Field Vane Shear Strength, kips/sq.ft.
 q_u = Unconfined Compressive Strength, kips/sq.ft.
 Ø = Friction Angle (Estimated)
 N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Well Diagram
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D		0-2	24/21	3-5-5-6		Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		Neat cement grout surface seal
			2D		2-4	24/16	5-4-3-2	ID 1680R w = 2.6 %	Moist, loose, tan, fine to medium SAND, trace Silt	1.5	Bentonite clay top seal
	5		3D		5-7	24/6	1-1-0-1		Very loose, similar to 2D		1-in-dia PVC riser pipe
	10		4D		10-12	24/9	6-5-5-6		Similar to 2D		
	15		5D		15-17	24/7	3-3-4-2		Wet, loose, tan to white, fine to coarse SAND, trace Silt	▽	
	20		6D		20-22	24/11	7-4-4-6		Similar to 5D		1-in-dia PVC slotted pipe
	25		7D		25-27	24/7	4-3-5-4		Similar to 5D		
	30		8D		30-32	24/8	4-5-4-5		Similar to 5D		

Bottom of Exploration at 32.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-1

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 1/9/25



BORING LOG

BORING NO.: B-2
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/9/2024
DATE FINISH: 12/10/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D		0-2	24/23	4-5-6-5		Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		
			2D		2-4	24/3	7-10-10-6	ID 1681R w = 4.9 %	Moist, medium dense, fine to medium SAND, trace Gravel, trace Silt		
	5		3D		5-7	24/1	1-2-1-1		Very loose, similar to 2D		
	10		4D		10-12	24/4	5-3-2-1		Loose, similar to 2D		
	15		5D		15-17	24/4	5-5-6-6		Wet, similar to 2D	▽	
	20		6D		20-22	24/9	3-3-3-3		Wet, loose, tan to white, fine to coarse SAND, trace Gravel, trace Silt		
	25		7D		25-27	24/5	4-5-6-6		Medium dense, similar to 6D		
	30		8D		30-32	24/16	3-3-6-30	ID 1682R w = 11.3 %	Loose, similar to 6D		

Bottom of Exploration at 32.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-2

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 1/9/25



BORING LOG

BORING NO.: B-3
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/10/2024
DATE FINISH: 12/10/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 13 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	0-2	24/24	4-5-4-5			Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		
			2D	2-4	24/12	5-5-5-3	ID 1683R w = 1.9 %		Moist, loose, tan, fine to coarse SAND, trace Gravel, trace Silt		
	5		3D	5-7	24/4	3-2-2-2			Very loose, similar to 2D		
	10		4D	10-12	24/6	10-7-4-3			Loose, similar to 2D		
	15		5D	15-17	24/6	4-4-3-4	ID 1684R w = 17.5 %		Wet, loose, tan, fine to medium SAND, trace Silt, trace Gravel		
	20		6D	20-22	24/4	4-3-3-2			Similar to 5D		
	25		7D	25-27	24/3	7-5-6-24			Wet, medium dense, fine to coarse SAND, trace Silt, trace Gravel		
	30		8D	30-32	24/6	8-8-18-35			Similar to 7D		
Bottom of Exploration at 32.0 feet											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: **B-3**

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 1/9/25



BORING LOG

BORING NO.: B-4
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/10/2024
DATE FINISH: 12/10/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D		0-2	24/12	4-4-4-4		1.0	Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)	
			2D		2-4	24/16	5-6-8-7	ID 1760R w = 2.7 %		Moist, medium dense, tan, fine to coarse SAND, trace Silt, trace Gravel	
	5		3D		5-7	24/13	7-8-10-13	ID 1685R w = 13.6 %		Similar to 2D	
	10		4D		10-12	24/13	8-6-6-8	ID 1763R w = 15.5 %		Similar to 2D	
	15		5D		15-17	24/3	9-8-6-6			Wet, medium dense, tan, fine to coarse SAND, trace Silt, trace Gravel	▽
	20		6D		20-22	24/0	6-4-5-4			No recovery	
	25		7D		25-27	24/6	4-6-8-6			Similar to 5D	
	30		8D		30-32	24/10	7-8-6-8	ID 1686R w = 22.8 %		Similar to 5D	

Bottom of Exploration at 32.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-4

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 1/9/25



BORING LOG

BORING NO.: B-5
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/11/2024
DATE FINISH: 12/11/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
Water Level
 ▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
 ▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
 ▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
 ▽ After Drilling V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./Rec. (in)	Blow Count or RQD				
			1D	0-2	24/20	4-3-4-3			Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		
			2D	2-4	24/20	4-5-5-6	ID 1687R w = 9.7 %		Moist, loose, tan, fine to coarse SAND, trace Gravel, trace Silt		
	5		3D	5-7	24/11	6-8-9-10			Medium dense, similar to 2D		
	10		4D	10-12	24/2	10-9-10-9			Similar to 2D		
	15		5D	15-17	24/0	10-7-6-4			Wet, medium dense, tan to white, fine to coarse SAND, trace Silt, trace Gravel	▽	
	20		6D	20-22	24/4	4-9-5-4			Similar to 5D		
	25		7D	25-27	24/8	8-6-4-5	ID 1688R w = 19.3 %		Loose, similar to 5D		
	30		8D	30-32	24/11	8-7-8-7			Similar to 5D		
Bottom of Exploration at 32.0 feet											

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: **B-5**



BORING LOG

BORING NO.: B-6
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/11/2024
DATE FINISH: 12/11/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 37.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 14 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	X	0-2	24/18	4-3-4-4	ID 1689R w = 7.6 %	1.2	Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)	
	5		2D	X	5-7	24/6	6-5-5-9			Moist, loose, tan, fine to coarse SAND, trace Silt	
	10		3D	X	10-12	24/7	7-7-8-7	ID 1690R w = 15.7 %		Medium dense, similar to 2D	
	15		4D	X	15-17	24/3	8-11-11-11			Wet, medium dense, tan, fine to coarse SAND, trace Silt	▽
	20		5D	X	20-22	24/5	6-7-8-9	ID 1762R w = 7.2 %		Similar to 4D	
	25		6D	X	25-27	24/10	6-7-8-7			Similar to 4D	
	30		7D	X	30-32	24/10	5-4-2-6			Loose, similar to 4D	
	35		8D	X	35-37	24/5	9-9-9-8			Similar to 4D	

Bottom of Exploration at 37.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-6



BORING LOG

BORING NO.: B-7
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/11/2024
DATE FINISH: 12/11/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Groundwater reading taken from open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	⊗	0-2	24/18	5-3-6-7		Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		
	5		2D	⊗	5-7	24/7	2-1-1-2		Moist, very loose, tan, fine to coarse SAND, trace Silt		
	10		3D	⊗	10-12	24/10	10-9-8-10	ID 1691R w = 15.6 %	Medium dense, similar to 2D		
	15		4D	⊗	15-17	24/7	8-11-9-9		Wet, medium dense, tan, fine to coarse SAND, trace Silt	▽	
	20		5D	⊗	20-22	24/10	7-6-9-12		Similar to 4D		
	25		6D	⊗	25-27	24/13	5-6-8-13	ID 1692R w = 18.4 %	Similar to 4D		
	30		7D	⊗	30-32	24/3	5-4-2-6		Loose, similar to 4D		

Bottom of Exploration at 32.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-7

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 19/25



BORING LOG

BORING NO.: B-8
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/12/2024
DATE FINISH: 12/12/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS:
 Water Level
 At time of Drilling
 At Completion of Drilling
 After Drilling
D = Split Spoon Sample Pen. = Penetration Length
U = Thin Walled Tube Sample Rec. = Recovery Length
R = Rock Core Sample bpf = Blows per Foot
V = Field Vane Shear mpf = Minute per Foot
WOR = Weight of Rods WOH = Weight of Hammer
RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
PID = Photoionization Detector N/A = Not Applicable
S_v = Field Vane Shear Strength, kips/sq.ft.
q_u = Unconfined Compressive Strength, kips/sq.ft.

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks										
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD					Field / Lab Test Data									
			1D		0-2	24/21	3-3-3-3														
	5		2D		5-7	24/3	3-2-3-3														
	10		3D		10-12	24/8	10-4-6-6	ID 1693R w =12.6 %													
	15		4D		15-17	24/5	11-10-9-12	ID 1761R w =14.9 %													
	20		5D		20-22	24/3	6-4-5-4														
	25		6D		25-27	24/2	6-7-7-7														
	30		7D		30-32	24/7	8-5-4-6	ID 1694R w =15.9 %													
Bottom of Exploration at 32.0 feet																					

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-8

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 19/25



BORING LOG

BORING NO.: B-9
SHEET: 1 of 1
PROJECT NO.: 24-0833
DATE START: 12/12/2024
DATE FINISH: 12/12/2024

CLIENT: McFarland-Johnson, Inc
PROJECT: Proposed Noise Barrier at South Apron Expansion
LOCATION: Nantucket Memorial Airport, Nantucket, Massachusetts

Drilling Information

LOCATION: See exploration location plan **ELEVATION (FT):** N/A **TOTAL DEPTH (FT):** 32.0 **LOGGED BY:** Jethro Celamy
DRILLING CO.: Seaboard Drilling **DRILLER:** Parker Johnson **DRILLING METHOD:** Cased Boring
RIG TYPE: Track Mounted Diedrich D-25 **AUGER ID/OD:** N/A / N/A **SAMPLER:** Standard Split-Spoon
HAMMER TYPE: Automatic **HAMMER WEIGHT (lbs):** 140 **CASING ID/OD:** 4 in / 4 1/2 in **CORE BARREL:** N/A
HAMMER CORRECTION FACTOR: _____ **HAMMER DROP (inch):** 30
WATER LEVEL DEPTHS (ft): 15 ft Water level measurement in open borehole

GENERAL NOTES:

KEY TO NOTES AND SYMBOLS: Water Level
▽ At time of Drilling D = Split Spoon Sample Pen. = Penetration Length WOR = Weight of Rods S_v = Field Vane Shear Strength, kips/sq.ft.
▽ At Completion of Drilling U = Thin Walled Tube Sample Rec. = Recovery Length WOH = Weight of Hammer q_u = Unconfined Compressive Strength, kips/sq.ft.
▽ After Drilling R = Rock Core Sample bpf = Blows per Foot RQD = Rock Quality Designation Ø = Friction Angle (Estimated)
V = Field Vane Shear mpf = Minute per Foot PID = Photoionization Detector N/A = Not Applicable

Elev. (ft)	Depth (ft)	Casing Pen. (bpf)	SAMPLE INFORMATION					Graphic Log	Sample Description & Classification	H ₂ O Depth	Remarks
			Sample No.	Type	Depth (ft)	Pen./ Rec. (in)	Blow Count or RQD				
			1D	X	0-2	24/21	4-10-10-9		Dark brown Silty SAND, some Root fragments and Forest Litter (TOPSOIL)		
	5		2D	X	5-7	24/12	6-8-8-9	ID 1695R w =13.7 %	Moist, medium dense, tan, fine to medium SAND, trace Silt		
	10		3D	X	10-12	24/5	8-7-7-7		Similar to 2D		
	15		4D	X	15-17	24/0	9-7-8-8		No recovery	▽	
	20		5D	X	20-22	24/3	12-7-5-5		Wet, medium dense, tan to white, fine to coarse SAND, trace Silt		
	25		6D	X	25-27	24/3	5-7-7-8		Similar to 5D		
	30		7D	X	30-32	24/6	5-4-8-7	ID 1696R w =17.2 %	Similar to 5D		

Bottom of Exploration at 32.0 feet

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING NO.: B-9

Last Modified: 04/18/2025 at 12:56PM EDT

BORING / WELL 10-12-2022 24-0833.GPJ SWCE TEMPLATE.GDT 1/9/25

KEY TO NOTES & SYMBOLS
Test Boring and Test Pit Explorations

Stratification lines represent the approximate boundary between soil types and the transition may be gradual.

Key to Symbols Used:

w	-	water content, percent (dry weight basis)
q _u	-	unconfined compressive strength, kips/sq. ft. - laboratory test
S _v	-	field vane shear strength, kips/sq. ft.
L _v	-	lab vane shear strength, kips/sq. ft.
q _p	-	unconfined compressive strength, kips/sq. ft. – pocket penetrometer test
O	-	organic content, percent (dry weight basis)
W _L	-	liquid limit - Atterberg test
W _P	-	plastic limit - Atterberg test
WOH	-	advance by weight of hammer
WOM	-	advance by weight of man
WOR	-	advance by weight of rods
HYD	-	advance by force of hydraulic piston on drill
RQD	-	Rock Quality Designator - an index of the quality of a rock mass.
γ _T	-	total soil weight
γ _B	-	buoyant soil weight

Description of Proportions:

Trace:	0 to 5%
Some:	5 to 12%
“Y”	12 to 35%
And	35+%
With	Undifferentiated

Description of Stratified Soils

Parting:	0 to 1/16” thickness
Seam:	1/16” to 1/2” thickness
Layer:	½” to 12” thickness
Varved:	Alternating seams or layers
Occasional:	one or less per foot of thickness
Frequent:	more than one per foot of thickness

REFUSAL: Test Boring Explorations - Refusal depth indicates that depth at which, in the drill foreman's opinion, sufficient resistance to the advance of the casing, auger, probe rod or sampler was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

REFUSAL: Test Pit Explorations - Refusal depth indicates that depth at which sufficient resistance to the advance of the backhoe bucket was encountered to render further advance impossible or impracticable by the procedures and equipment being used.

Although refusal may indicate the encountering of the bedrock surface, it may indicate the striking of large cobbles, boulders, very dense or cemented soil, or other buried natural or man-made objects or it may indicate the encountering of a harder zone after penetrating a considerable depth through a weathered or disintegrated zone of the bedrock.

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APPENDIX D

Laboratory Test Results

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1680R

Date Received 12/17/2024

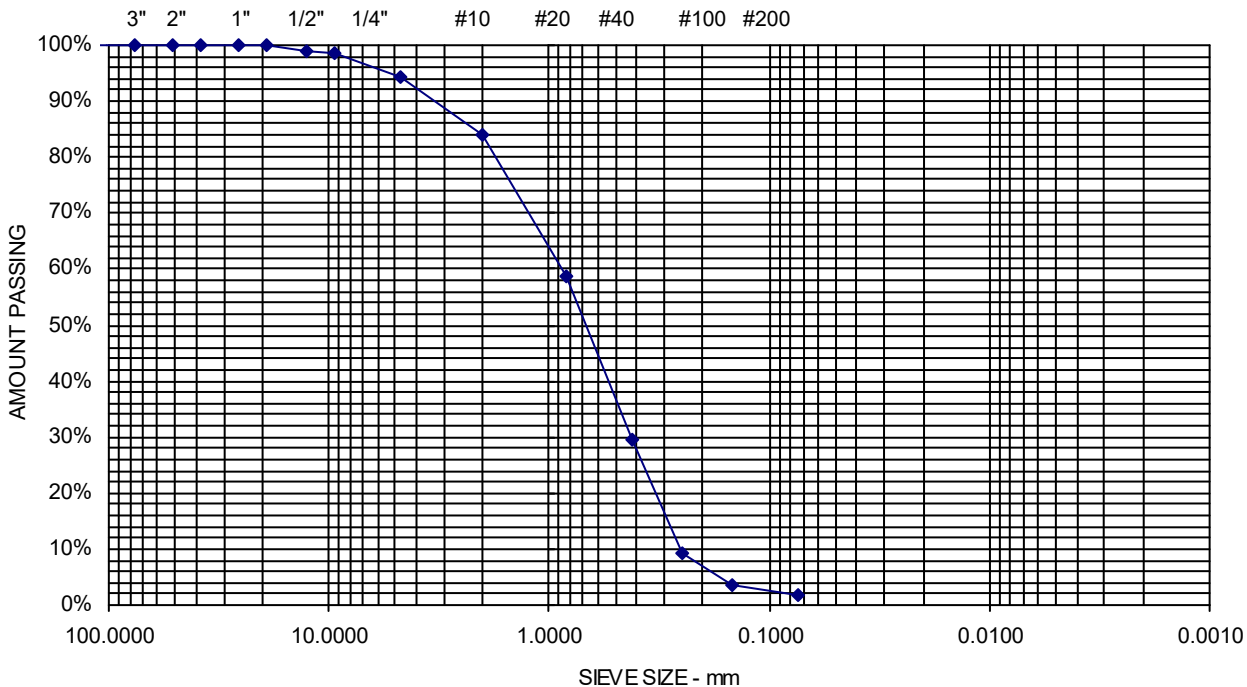
Date Completed 12/30/2024

Material Source B-1 2D 2'-4'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	99	
9.5 mm	3/8"	98	
4.75 mm	No. 4	94	5.7% Gravel
2.00 mm	No. 10	84	
850 μm	No. 20	59	
425 μm	No. 40	29	92.6% Sand
250 μm	No. 60	9	
150 μm	No. 100	3	
75 μm	No. 200	1.7	1.7% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) = 2.64

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1681R

Date Received 12/17/2024

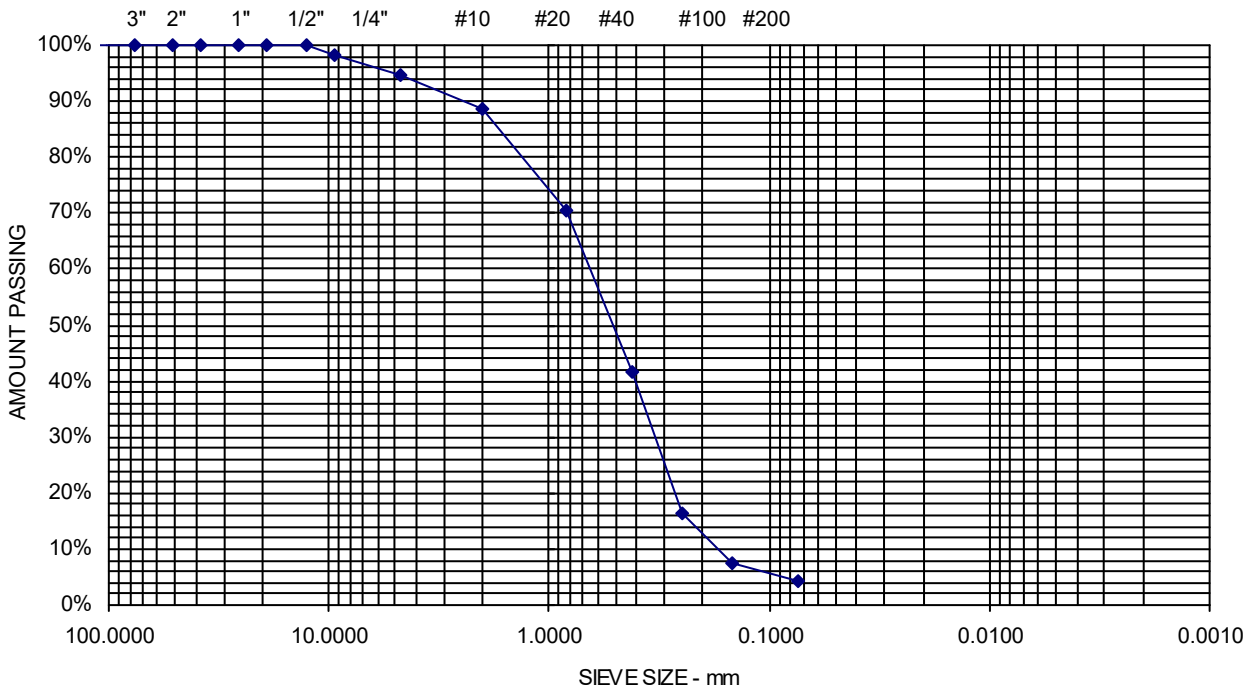
Date Completed 12/30/2024

Material Source B-2 2D 2'-4'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	98	
4.75 mm	No. 4	95	5.4% Gravel
2.00 mm	No. 10	89	
850 μm	No. 20	70	
425 μm	No. 40	42	90.5% Sand
250 μm	No. 60	16	
150 μm	No. 100	8	
75 μm	No. 200	4.2	4.2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) = 4.88

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1682R

Date Received 12/17/2024

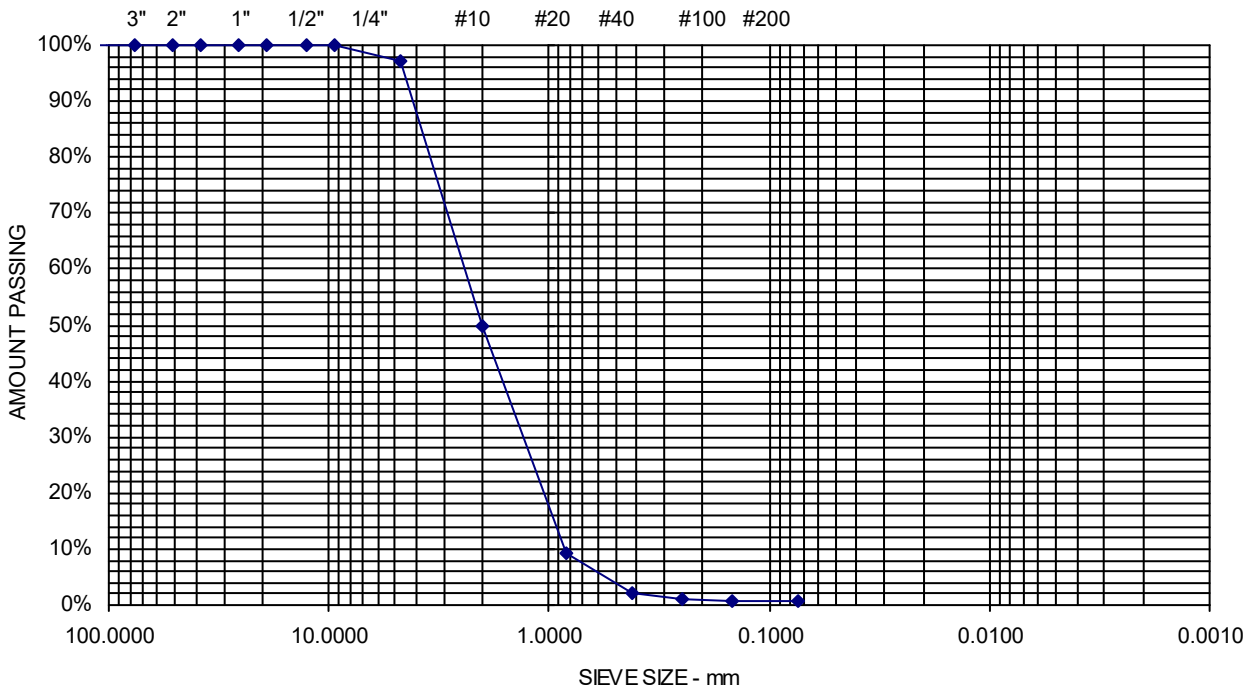
Date Completed 12/30/2024

Material Source B-2 8D 30"-32'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	97	2.7% Gravel
2.00 mm	No. 10	50	
850 μm	No. 20	9	
425 μm	No. 40	2	96.7% Sand
250 μm	No. 60	1	
150 μm	No. 100	1	
75 μm	No. 200	0.6	0.6% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =11.33

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1683R

Date Received 12/17/2024

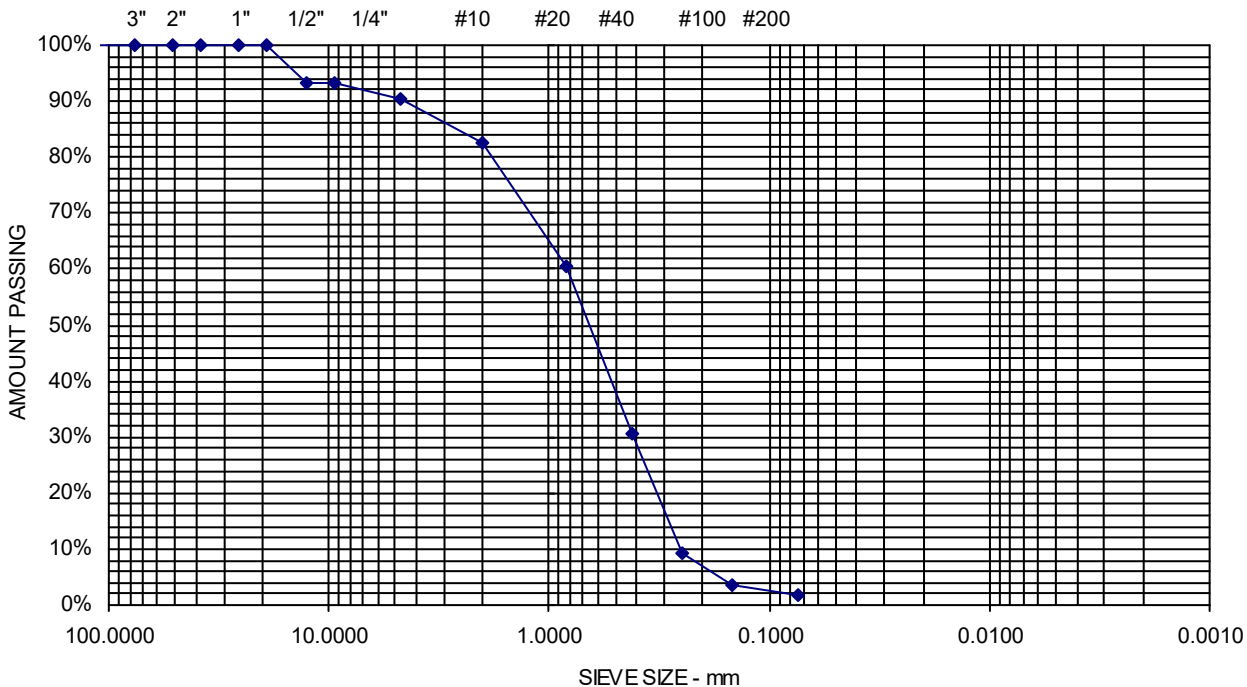
Date Completed 12/30/2024

Material Source B-3 2D 2'-4"

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	93	
9.5 mm	3/8"	93	
4.75 mm	No. 4	90	9.7% Gravel
2.00 mm	No. 10	82	
850 μm	No. 20	60	
425 μm	No. 40	31	88.7% Sand
250 μm	No. 60	9	
150 μm	No. 100	4	
75 μm	No. 200	1.7	1.7% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) = 1.87

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1684R

Date Received 12/17/2024

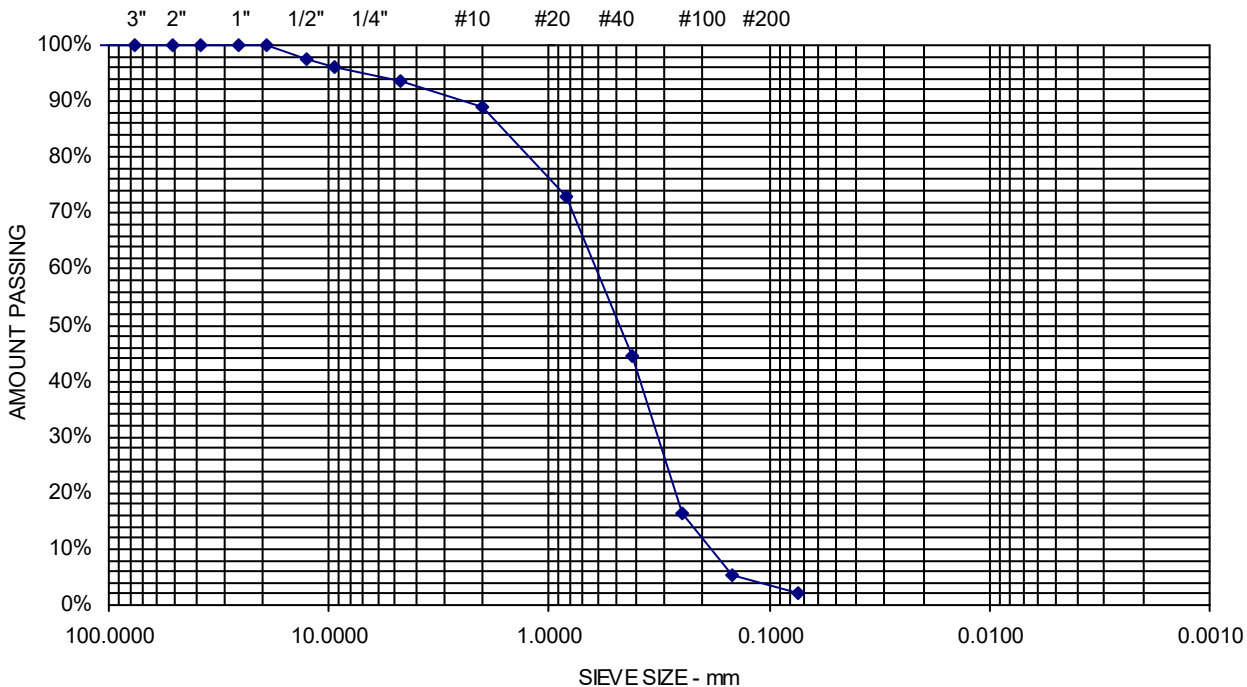
Date Completed 12/30/2024

Material Source B-3 5D 15'-17'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	98	
9.5 mm	3/8"	96	
4.75 mm	No. 4	94	6.4% Gravel
2.00 mm	No. 10	89	
850 μm	No. 20	73	
425 μm	No. 40	44	91.5% Sand
250 μm	No. 60	16	
150 μm	No. 100	5	
75 μm	No. 200	2.2	2.2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) = 17.49

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1760R

Date Received 12/17/2024

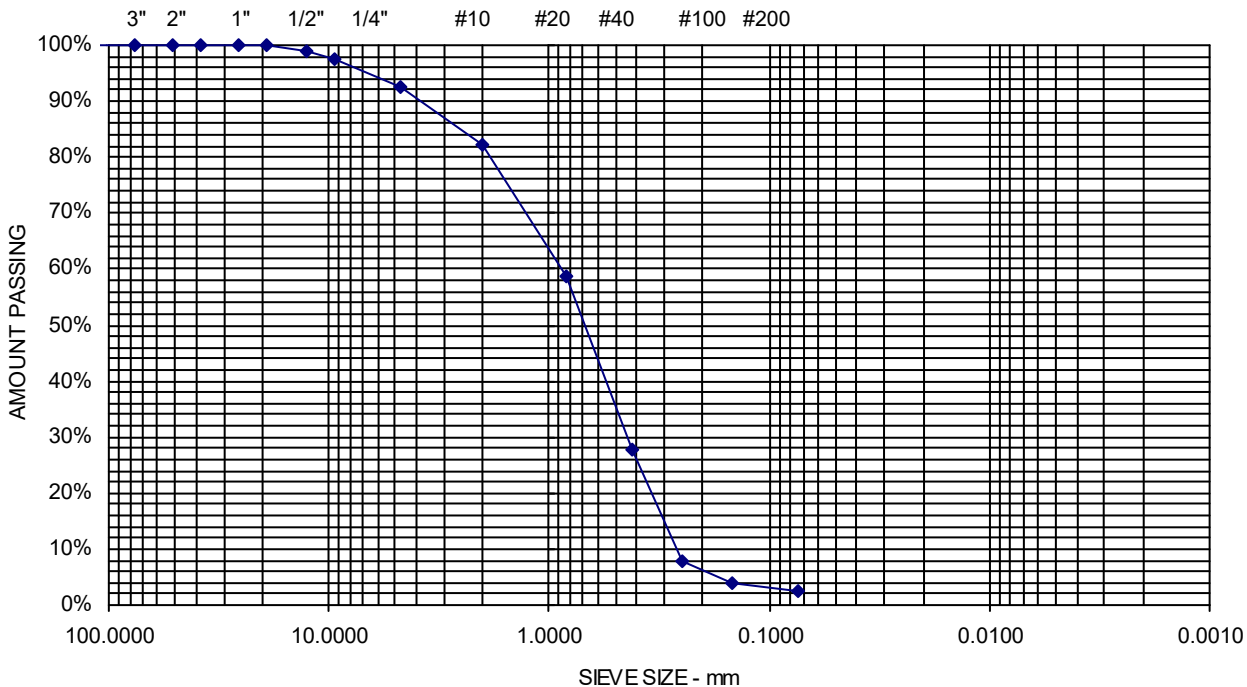
Date Completed 1/7/2025

Material Source B-4 2D 2'-4'

Tested By RODNEY HAWKINS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	99	
9.5 mm	3/8"	98	
4.75 mm	No. 4	92	7.6% Gravel
2.00 mm	No. 10	82	
850 μm	No. 20	59	
425 μm	No. 40	28	89.9% Sand
250 μm	No. 60	8	
150 μm	No. 100	4	
75 μm	No. 200	2.5	2.5% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: MC= 2.7%

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1685R

Date Received 12/17/2024

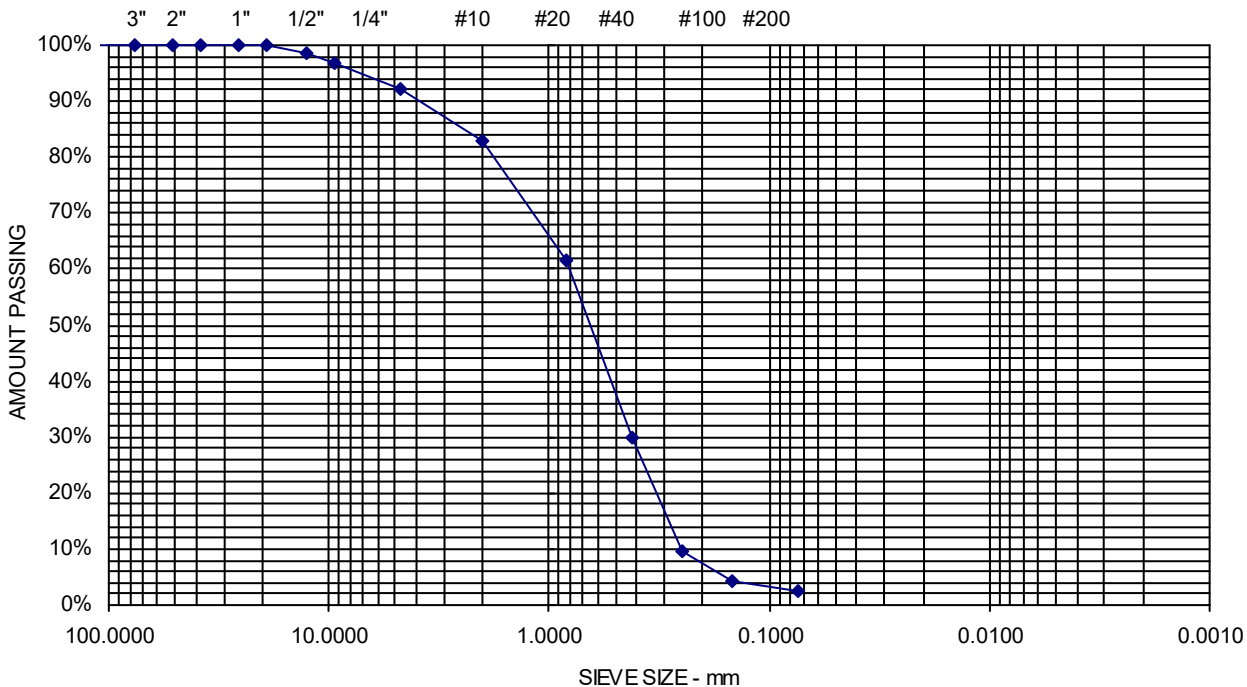
Date Completed 12/30/2024

Material Source B-4 3D 5'-7'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	98	
9.5 mm	3/8"	97	
4.75 mm	No. 4	92	7.7% Gravel
2.00 mm	No. 10	83	
850 μm	No. 20	62	
425 μm	No. 40	30	90% Sand
250 μm	No. 60	10	
150 μm	No. 100	4	
75 μm	No. 200	2.3	2.3% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =13.58

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1763R

Date Received 12/17/2024

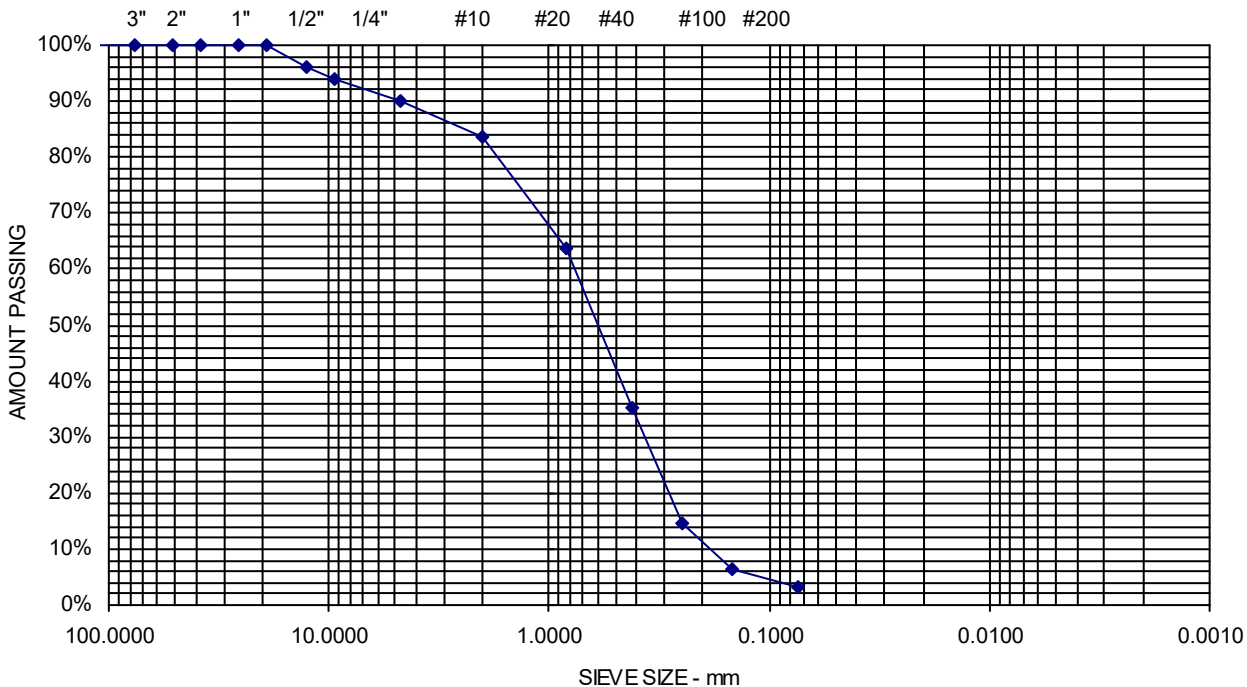
Date Completed 1/9/2025

Material Source B-4 4D 10'-12'

Tested By RODNEY HAWKINS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	96	
9.5 mm	3/8"	94	
4.75 mm	No. 4	90	9.8% Gravel
2.00 mm	No. 10	84	
850 μm	No. 20	64	
425 μm	No. 40	35	87% Sand
250 μm	No. 60	14	
150 μm	No. 100	7	
75 μm	No. 200	3.2	3.2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: 15.5%

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1686R

Date Received 12/17/2024

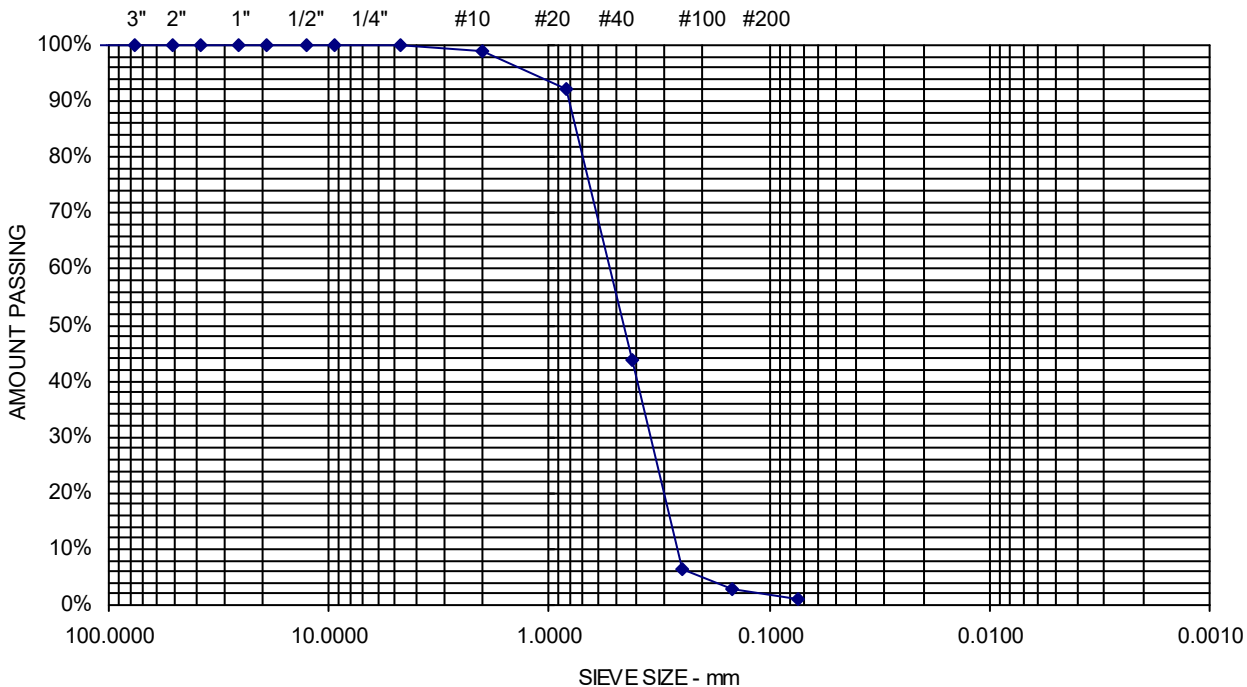
Date Completed 12/30/2024

Material Source B-4 8D 30'-32'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	100	0% Gravel
2.00 mm	No. 10	99	
850 μm	No. 20	92	
425 μm	No. 40	44	98.8% Sand
250 μm	No. 60	6	
150 μm	No. 100	3	
75 μm	No. 200	1.2	1.2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =22.82

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1687R

Date Received 12/17/2024

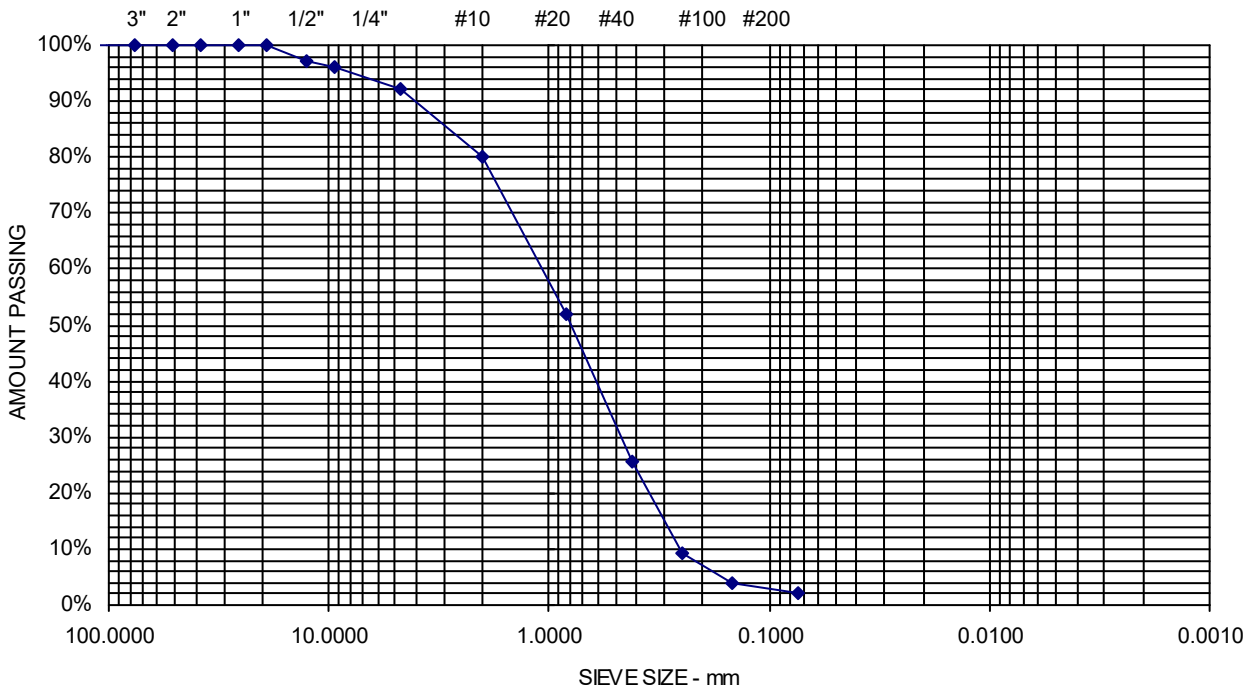
Date Completed 12/30/2024

Material Source B-5 2D 2'-4'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	97	
9.5 mm	3/8"	96	
4.75 mm	No. 4	92	7.8% Gravel
2.00 mm	No. 10	80	
850 μm	No. 20	52	
425 μm	No. 40	26	90.2% Sand
250 μm	No. 60	9	
150 μm	No. 100	4	
75 μm	No. 200	2.0	2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =9.67

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1688R

Date Received 12/17/2024

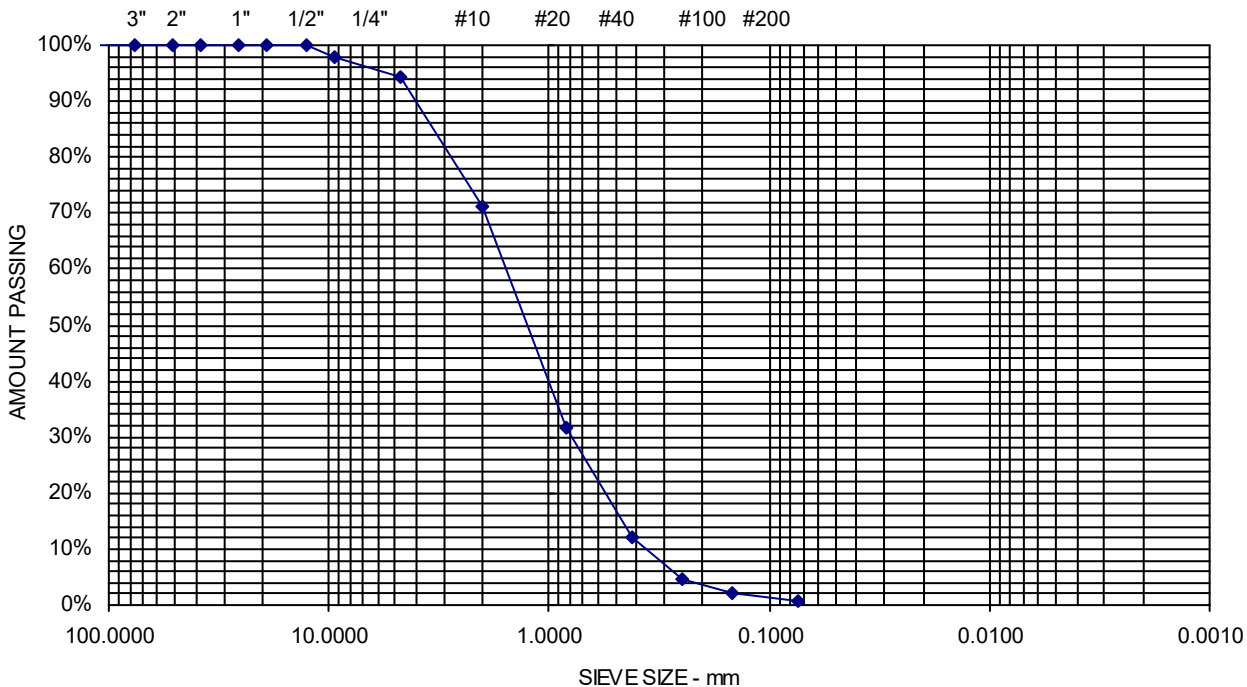
Date Completed 12/30/2024

Material Source B-5 7D 25'-27'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	98	
4.75 mm	No. 4	94	5.8% Gravel
2.00 mm	No. 10	71	
850 μm	No. 20	32	
425 μm	No. 40	12	93.5% Sand
250 μm	No. 60	5	
150 μm	No. 100	2	
75 μm	No. 200	0.7	0.7% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =19.32

Sheet



Report of Gradation

ASTM C-117 & C-136

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1689R

Date Received 12/17/2024

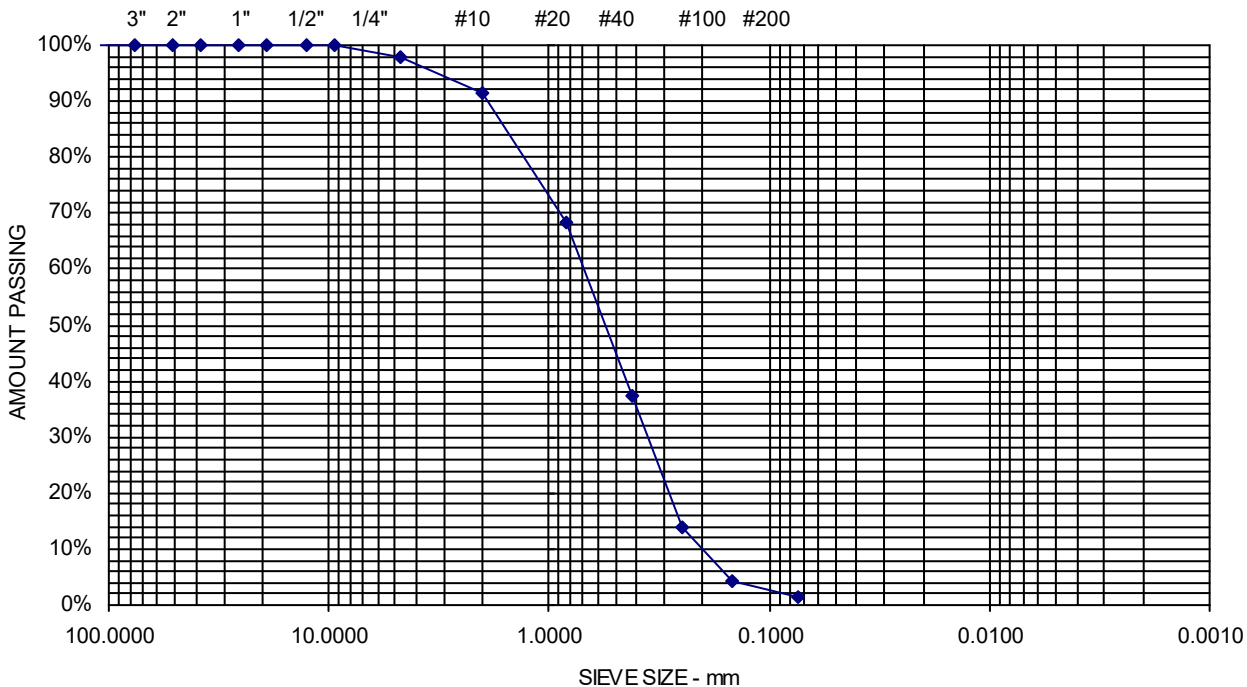
Date Completed 12/30/2024

Material Source B-6 1D 0'-2'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	98	2.1% Gravel
2.00 mm	No. 10	91	
850 μm	No. 20	68	
425 μm	No. 40	37	96.5% Sand
250 μm	No. 60	14	
150 μm	No. 100	4	
75 μm	No. 200	1.4	1.4% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =7.57

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1690R

Date Received 12/17/2024

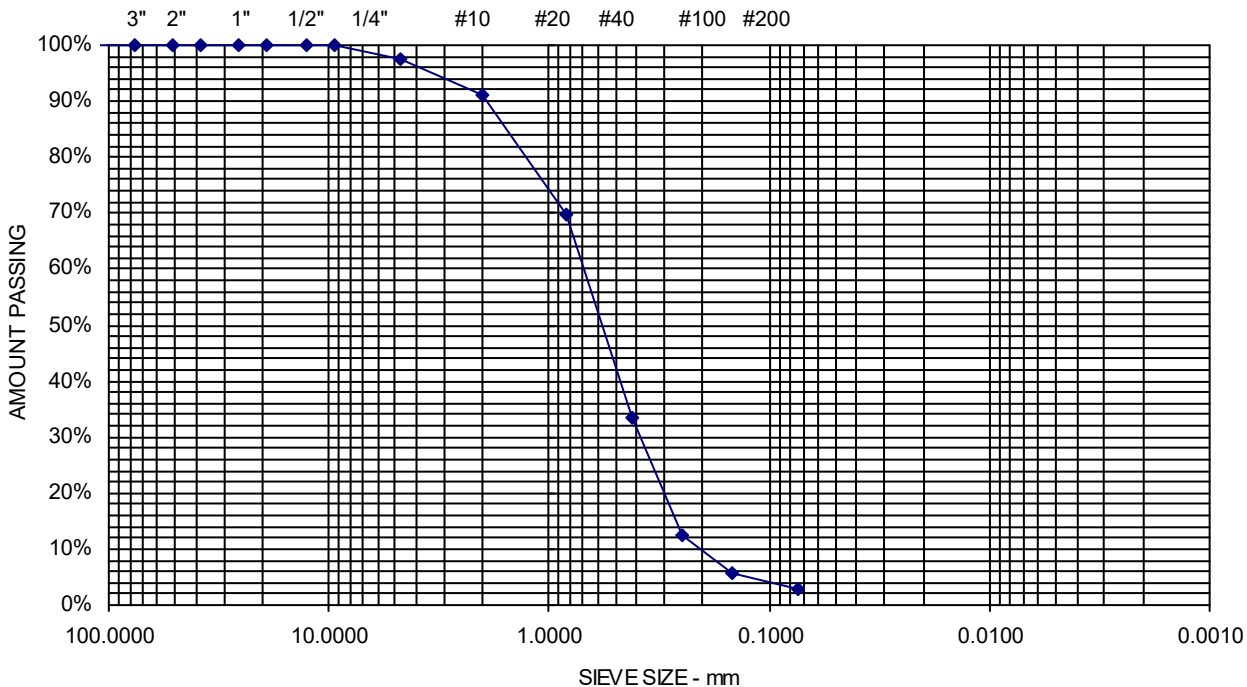
Date Completed 12/30/2024

Material Source B-6 3D 10'-12'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	98	2.4% Gravel
2.00 mm	No. 10	91	
850 μm	No. 20	70	
425 μm	No. 40	33	94.7% Sand
250 μm	No. 60	12	
150 μm	No. 100	6	
75 μm	No. 200	2.9	2.9% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =15.65

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1762R

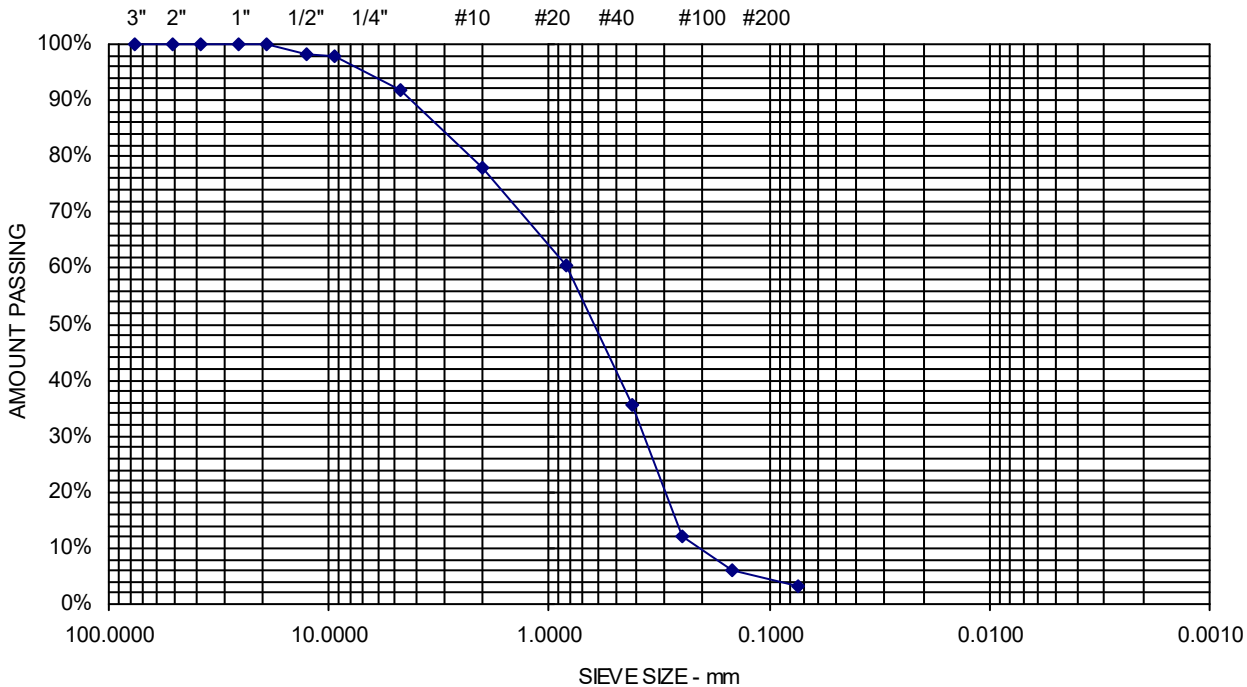
Date Received 12/17/2024

Date Completed 1/9/2025

Material Source B-6 5D 20'-22'

Tested By RODNEY HAWKINS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	98	
9.5 mm	3/8"	98	
4.75 mm	No. 4	92	8.3% Gravel
2.00 mm	No. 10	78	
850 μm	No. 20	60	
425 μm	No. 40	36	88.5% Sand
250 μm	No. 60	12	
150 μm	No. 100	6	
75 μm	No. 200	3.2	3.2% Fines



Comments: MC = 7.2%

Sheet

Last Modified: 04/18/2025 at 12:56PM EDT

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1691R

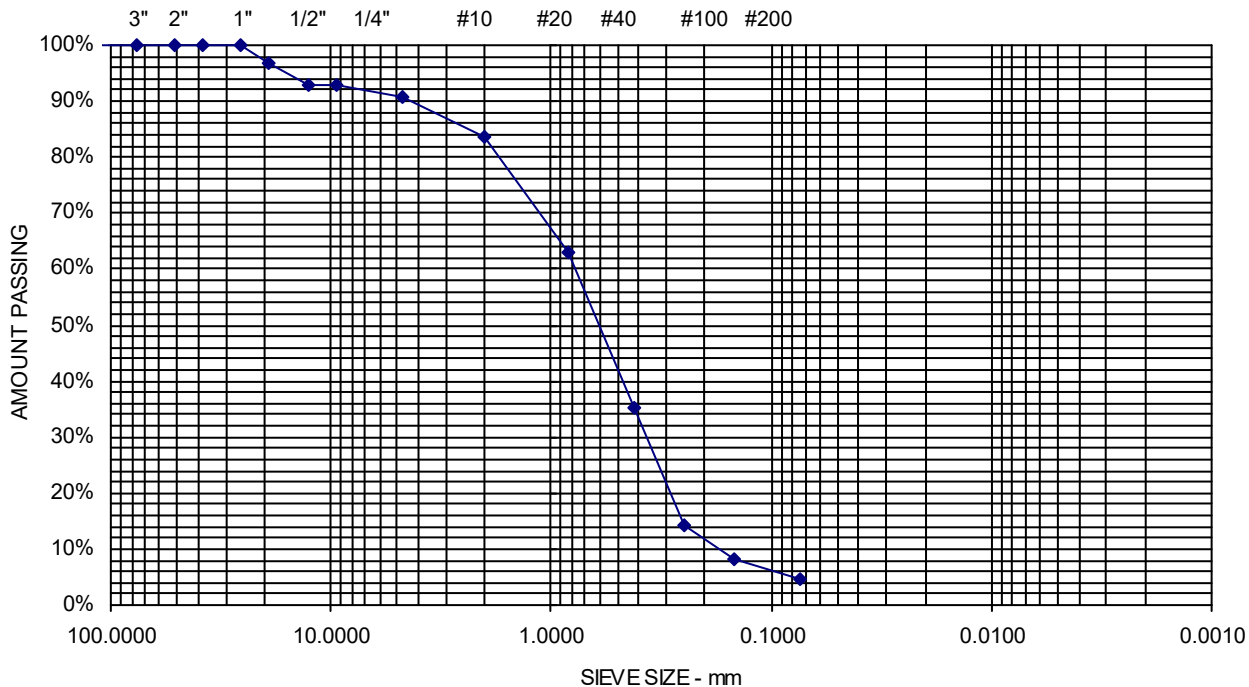
Date Received 12/17/2024

Date Completed 12/30/2024

Material Source B-7 3D 10'-12'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	97	
12.5 mm	1/2"	93	
9.5 mm	3/8"	93	
4.75 mm	No. 4	91	9.4% Gravel
2.00 mm	No. 10	84	
850 μm	No. 20	63	
425 μm	No. 40	35	85.8% Sand
250 μm	No. 60	14	
150 μm	No. 100	8	
75 μm	No. 200	4.8	4.8% Fines



Comments: Moisture (%) =15.58

Sheet

Last Modified: 04/18/2025 at 12:56PM EDT

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1692R

Date Received 12/17/2024

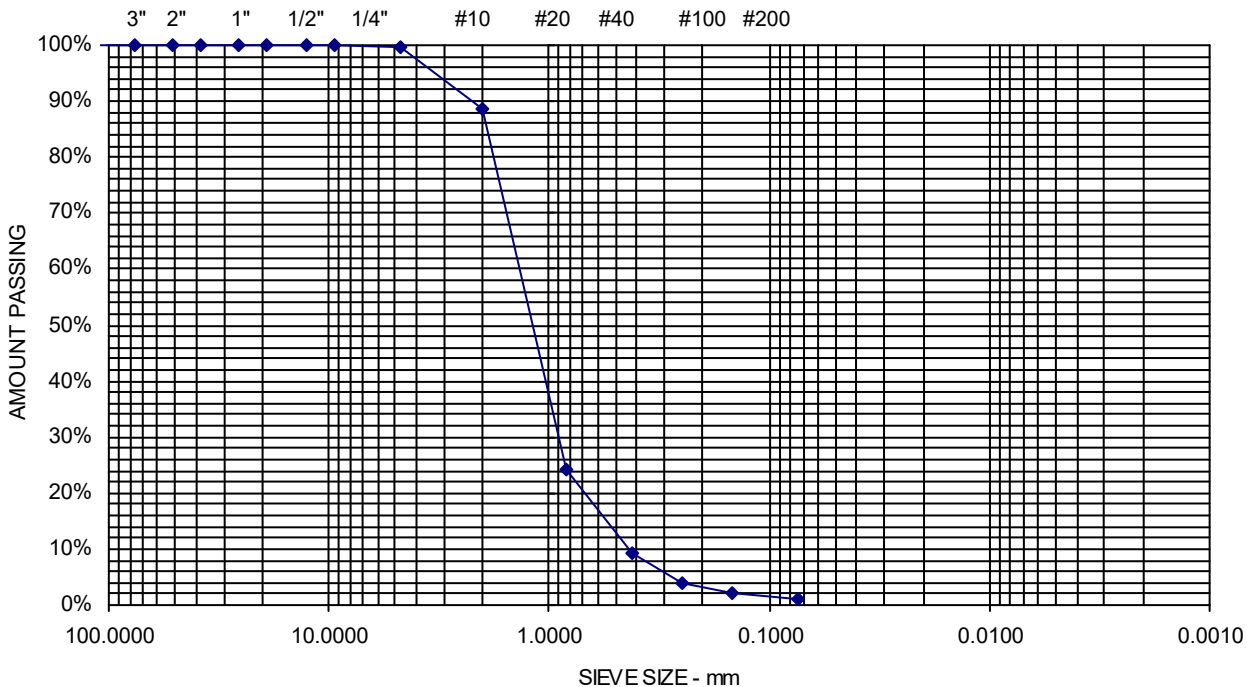
Date Completed 12/30/2024

Material Source B-7 6D 25'-27'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	100	0.4% Gravel
2.00 mm	No. 10	89	
850 μm	No. 20	24	
425 μm	No. 40	9	98.6% Sand
250 μm	No. 60	4	
150 μm	No. 100	2	
75 μm	No. 200	1.1	1.1% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =18.38

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1693R

Date Received 12/17/2024

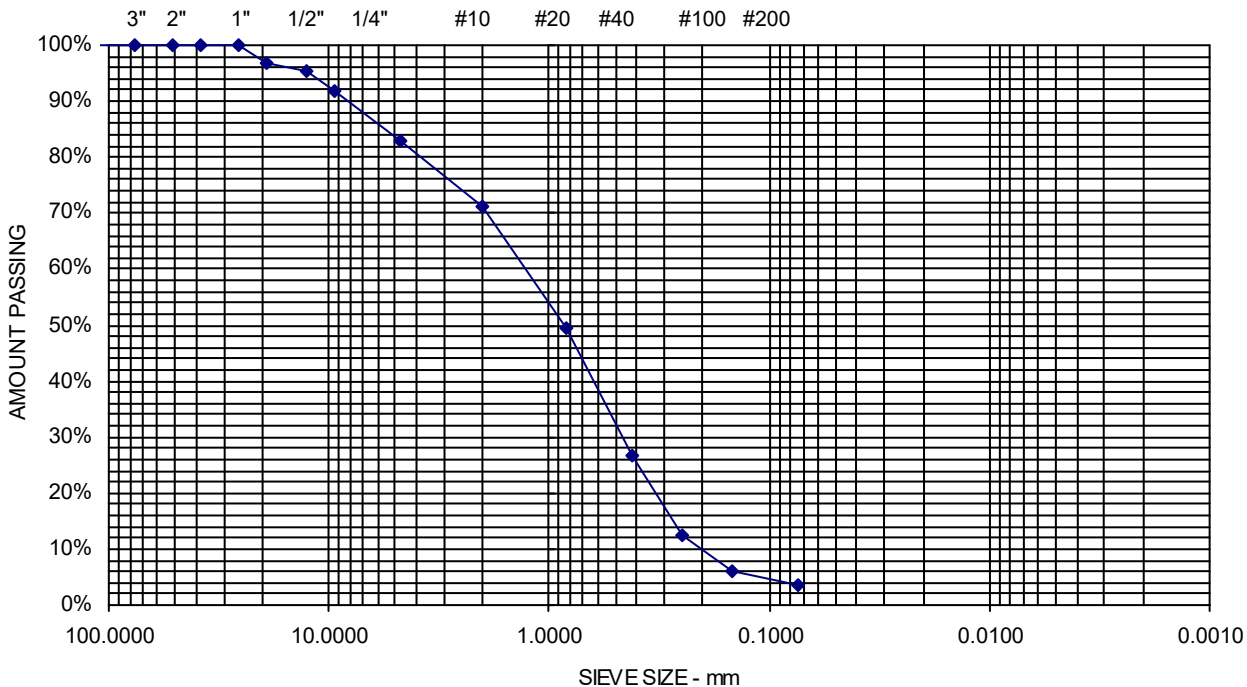
Date Completed 12/30/2024

Material Source B-8 3D 10'-12'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	97	
12.5 mm	1/2"	95	
9.5 mm	3/8"	92	
4.75 mm	No. 4	83	17% Gravel
2.00 mm	No. 10	71	
850 μm	No. 20	49	
425 μm	No. 40	27	79.5% Sand
250 μm	No. 60	12	
150 μm	No. 100	6	
75 μm	No. 200	3.5	3.5% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =12.57

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1761R

Date Received 12/17/2024

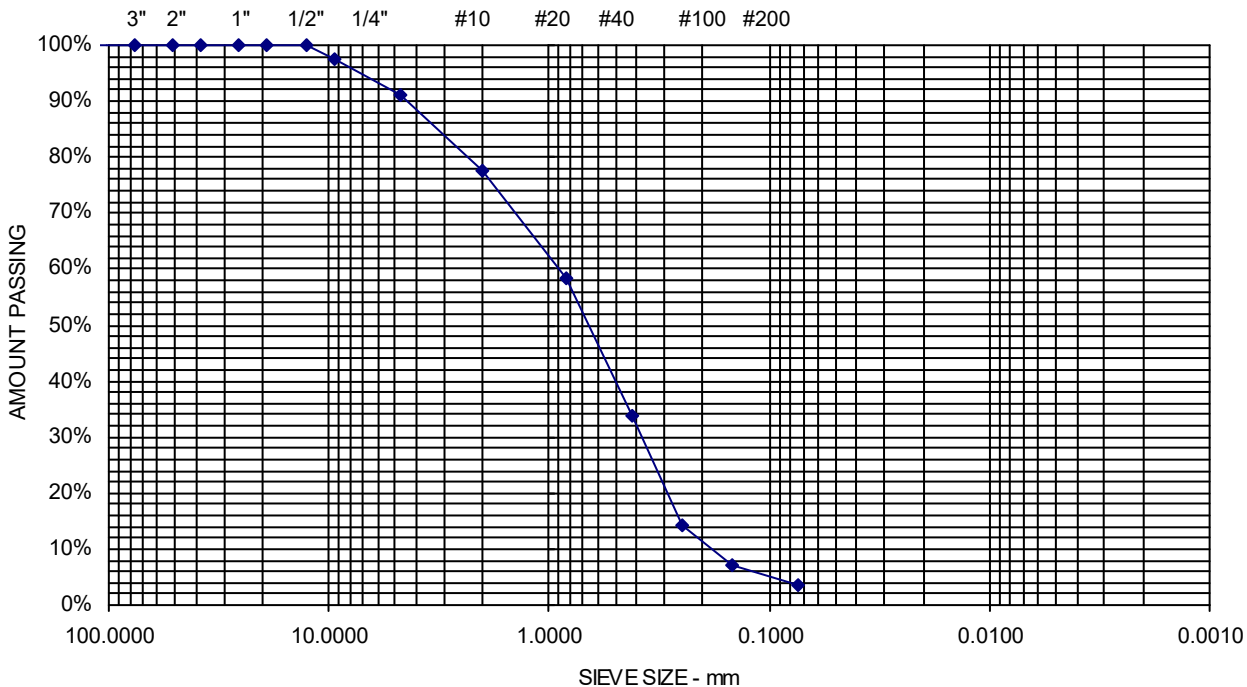
Date Completed 1/7/2025

Material Source B-8 4D 15'-17'

Tested By RODNEY HAWKINS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	98	
4.75 mm	No. 4	91	8.8% Gravel
2.00 mm	No. 10	77	
850 μm	No. 20	58	
425 μm	No. 40	34	87.6% Sand
250 μm	No. 60	14	
150 μm	No. 100	7	
75 μm	No. 200	3.5	3.5% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: MC = 14.9%

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1694R

Date Received 12/17/2024

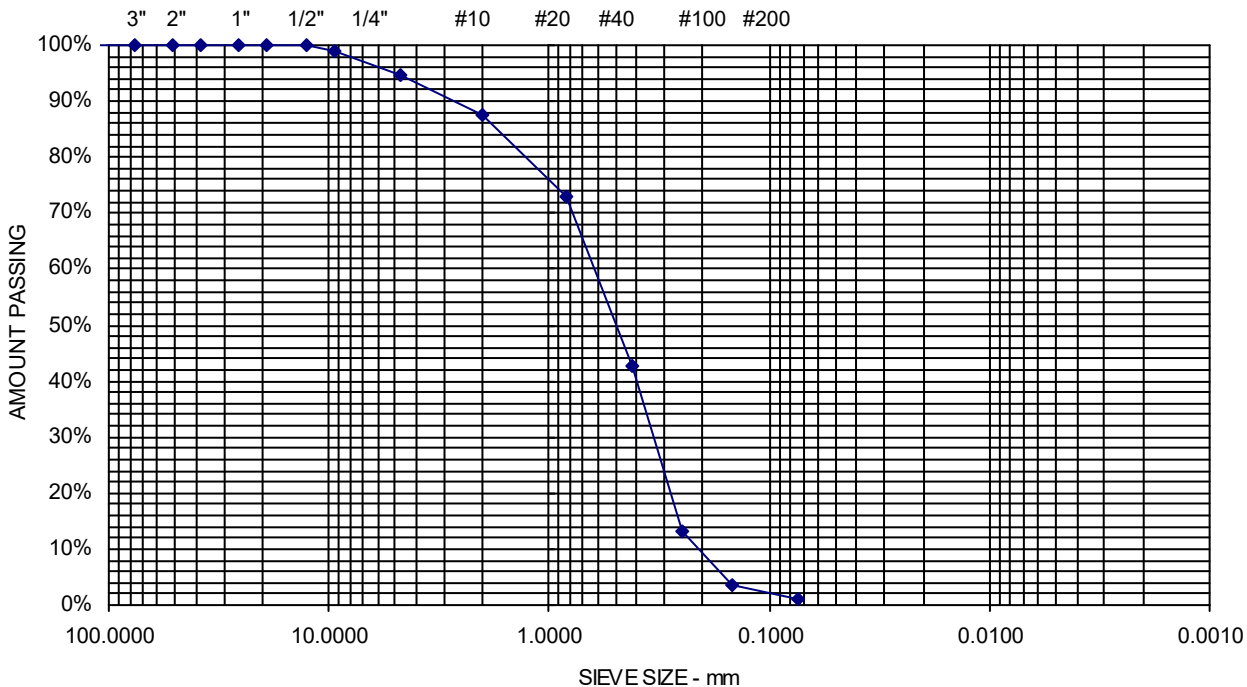
Date Completed 12/30/2024

Material Source B-8 7D 30'-32'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	99	
4.75 mm	No. 4	95	5.4% Gravel
2.00 mm	No. 10	88	
850 μm	No. 20	73	
425 μm	No. 40	43	93.4% Sand
250 μm	No. 60	13	
150 μm	No. 100	4	
75 μm	No. 200	1.2	1.2% Fines

Last Modified: 04/18/2025 at 12:56PM EDT



Comments: Moisture (%) =15.92

Sheet

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1695R

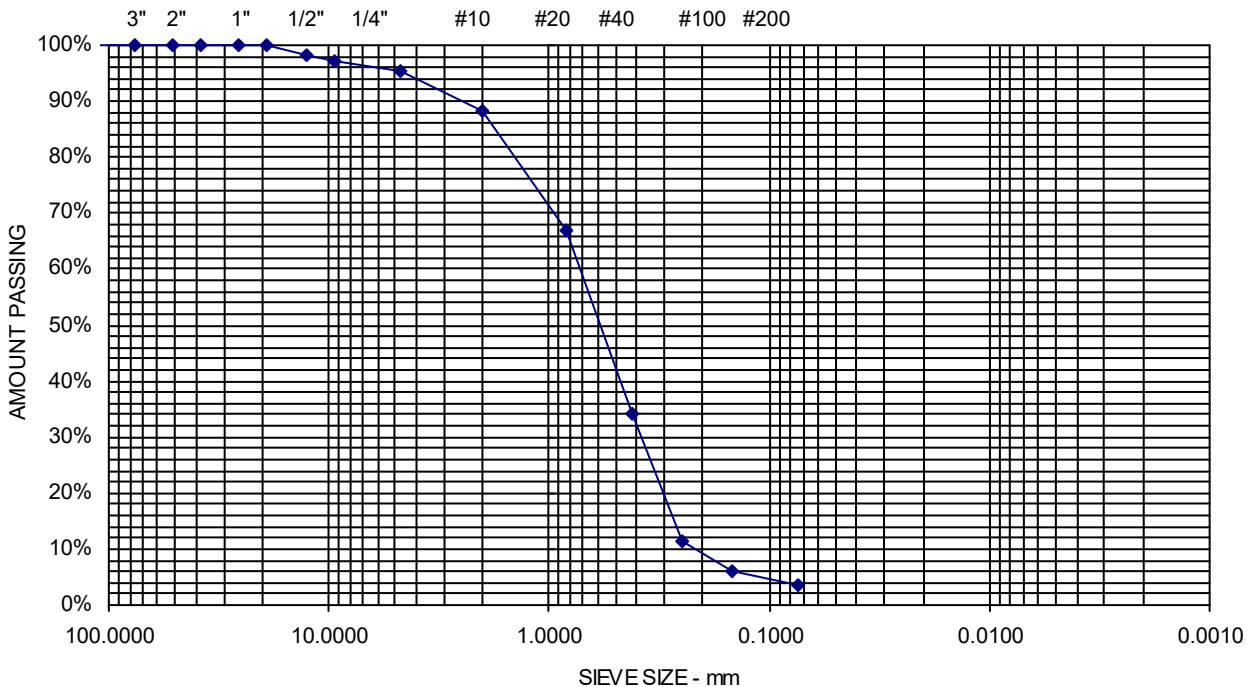
Date Received 12/17/2024

Date Completed 12/30/2024

Material Source B-9 2D 5'-7'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	98	
9.5 mm	3/8"	97	
4.75 mm	No. 4	95	4.7% Gravel
2.00 mm	No. 10	88	
850 μm	No. 20	67	
425 μm	No. 40	34	91.7% Sand
250 μm	No. 60	11	
150 μm	No. 100	6	
75 μm	No. 200	3.6	3.6% Fines



Comments: Moisture (%) =13.69

Sheet

Last Modified: 04/18/2025 at 12:56PM EDT

Project Name NANTUCKET MA - PROPOSED NOISE BARRIER MJ PROJECT NO. 19149.08 - EXPLORATIONS AND GEOTECHNICAL ENGINEERING

Project Number 24-0833

Client MCFARLAND JOHNSON INC.

Lab ID 1696R

Date Received 12/17/2024

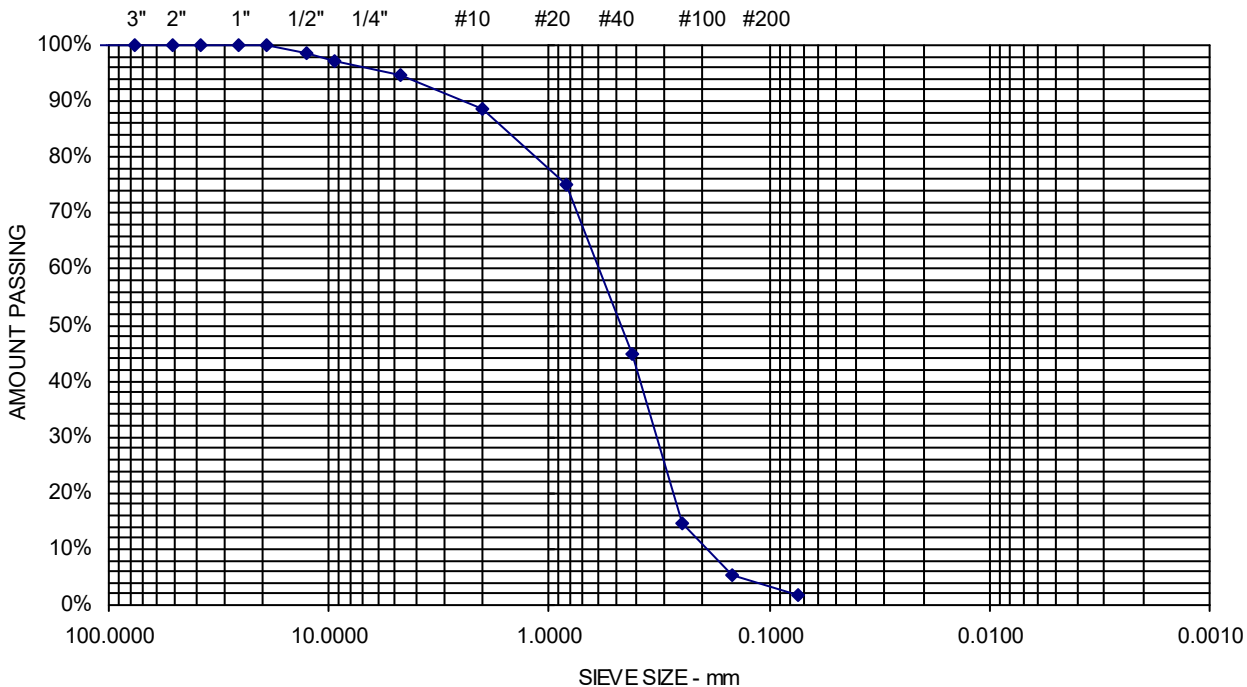
Date Completed 12/30/2024

Material Source B-9 7D 30'-32'

Tested By NATHANIEL MATTHIAS

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	99	
9.5 mm	3/8"	97	
4.75 mm	No. 4	95	5.3% Gravel
2.00 mm	No. 10	89	
850 μm	No. 20	75	
425 μm	No. 40	45	93% Sand
250 μm	No. 60	15	
150 μm	No. 100	5	
75 μm	No. 200	1.7	1.7% Fines

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Comments: Moisture (%) =17.21

Sheet

DIVISION 2 – SPECIAL PROVISIONS

PERMITS

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NO STATE or FEDERAL LAND USE PERMITS

There are no individual permits anticipated to be required by this project. The Contractor will be responsible for following the requirements of all the Commonwealth of Massachusetts General Laws, Rules, Regulations and Recommendations while working on this project.

Further the Contractor shall abide by all of the Town of Nantucket, rules, ordinances, regulations and requirements.

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DIVISION 3

TECHNICAL SPECIFICATIONS

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Section	Description	Pages
Item C-105	Mobilization.....	C-105-1 to C-105-2
Item M-001	Summary of Special Work Requirements.....	M-001-1 to M-001-14
Item M-120	CSPP & Maintenance and Protection of Traffic.....	M-120-1 to M-120-4
Item M-200	Drilled Shaft Concrete Foundation	M-200-1 to M-200-12
Item M-300	Sound Wall Barrier.....	M-300-1 to M-300-8
Item M-400	Site Demolition	M-400-1 to M-400-6
Item C-102	Temporary Air and Water Pollution, Soil Erosion, and Siltation Control	C-102-1 to C-102-6
Item P-151	Clearing and Grubbing.....	P-151-1 to P-151-4
Item P-152	Excavation, Subgrade and Embankment	P-152-1 to P-152-8
Item T-901	Seeding	T-901-1 to T-901-6
Item T-905	Topsoil.....	T-905-1 to T-905-4
Item T-908	Mulching	T-908-1 to T-908-4

<u>Section</u>	<u>Description</u>	<u>Pages</u>
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ITEM C-105 MOBILIZATION

105-1 Description. This item of work shall consist of, but is not limited to, work and operations necessary for the movement of personnel, equipment, material and supplies to and from the project site for work on the project except as provided in the contract as separate pay items.

105-2 Mobilization limit. Mobilization shall be limited to **FIVE (5)** percent of the total project cost.

105-3 Posted notices. Prior to commencement of construction activities, the Contractor must post the following documents in a prominent and accessible place where they may be easily viewed by all employees of the prime Contractor and by all employees of subcontractors engaged by the prime Contractor:

Equal Employment Opportunity (EEO) Poster "Equal Employment Opportunity is the Law" in accordance with the Office of Federal Contract Compliance Programs Executive Order 11246, as amended;

Davis Bacon Wage Poster (WH 1321) - DOL "Notice to All Employees" Poster; and Applicable Davis-Bacon Wage Rate Determination. – **NOT APPLICABLE FOR THIS PROJECT**

Massachusetts Prevailing Wage Schedule

These notices must remain posted until final acceptance of the work by the Owner.

105-4 Engineer/RPR field office. An Engineer/RPR field office is not required.

METHOD OF MEASUREMENT

105-5 Basis of measurement and payment. Based upon the contract lump sum price for "Mobilization" partial payments will be allowed as follows:

- a. With first pay request, 25%.
- b. When 25% or more of the original contract is earned, an additional 25%.
- c. When 50% or more of the original contract is earned, an additional 40%.
- d. After Final Inspection, Staging area clean-up and delivery of all Project Closeout materials as required by Section 90, paragraph 90-11, *Contractor Final Project Documentation*, the final 10%.

BASIS OF PAYMENT

105-6 Payment will be made under:

Item C-105-1 Mobilization (5% Maximum) per Lump Sum

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Office of Federal Contract Compliance Programs (OFCCP)

Executive Order 11246, as amended

EEOC-P/E-1 – Equal Employment Opportunity is the Law Poster

United States Department of Labor, Wage and Hour Division (WHD)

WH 1321 – Employee Rights under the Davis-Bacon Act Poster

END OF ITEM C-105

ITEM C-102
TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL

DESCRIPTION

102-1. This item shall consist of temporary control measures as shown on the plans or as ordered by the Resident Project Representative (RPR) during the life of a contract to control pollution of air and water, soil erosion, and siltation through the use of silt fences, berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other erosion control devices or methods.

Temporary erosion control shall be in accordance with the approved erosion control plan; the approved Construction Safety and Phasing Plan (CSPP) and AC 150/5370-2, *Operational Safety on Airports During Construction*. The temporary erosion control measures contained herein shall be coordinated with the permanent erosion control measures specified as part of this contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

Temporary control may include work outside the construction limits such as borrow pit operations, equipment and material storage sites, waste areas, and temporary plant sites.

Temporary control measures shall be designed, installed and maintained to minimize the creation of wildlife attractants that have the potential to attract hazardous wildlife on or near public-use airports.

MATERIALS

102-2.1 Grass. Grass that will not compete with the grasses sown later for permanent cover per Item T-901 shall be a quick-growing species (such as ryegrass, Italian ryegrass, or cereal grasses) suitable to the area providing a temporary cover. Selected grass species shall not create a wildlife attractant.

102-2.2 Mulches. Mulches may be hay, straw, fiber mats, netting, bark, wood chips, or other suitable material reasonably clean and free of noxious weeds and deleterious materials per Item T-908. Mulches shall not create a wildlife attractant.

102-2.3 Fertilizer. Fertilizer shall be a standard commercial grade and shall conform to all federal and state regulations and to the standards of the Association of Official Agricultural Chemists.

102-2.4 Slope drains. Slope drains may be constructed of pipe, fiber mats, rubble, concrete, asphalt, or other materials that will adequately control erosion.

102-2.5 Silt fence. Silt fence shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life. Silt fence shall meet the requirements of ASTM D6461.

102-2.6 Inlet Protection Filter Bags. Inlet protection filter bags shall be manufactured from a specially designed woven polypropylene geotextile and have lifting straps as an integral part of the system. Inlet protection filter bags shall be manufactured to fit the opening of the catch basin or drop inlet. The inlet protection filter bags should have overflows built into the bag.

102-2.7 Erosion/Sedimentation Control Logs. Erosion/sedimentation control log materials shall be in accordance with AASHTO Designation: MP 9-06 (2007 or latest version). Compost filter material shall be in accordance with AASHTO Designation: MP 9-06 (2007 or latest revision). Compost material shall also meet all applicable Federal and State Regulations. For erosion control logs 18 inches or less in diameter, wooden stakes shall be min. 1 inch by min. 1 inch, at 10-foot intervals on center, and of a length that shall project into the soil 1 foot leaving 3 inches to 4 inches protruding above the filter sock. For erosion control logs greater than 18 inches in diameter wooden stakes shall be 2-inch by 2-inch, at 10-foot intervals on center, and of a length that shall project into the soil 1 foot leaving 3 inches to 4 inches protruding above the filter sock.

102-2.8 Stabilized Construction Entrance Materials.

The underlying geotextile fabric shall be a nonwoven, medium strength polyethylene fabric to be used a separation between the stone and underlying materials.

The crushed stone used for the temporary stabilized construction entrance access shall meet the following gradations requirements:

Gradation – Percent Passing	
Sieve Size	Crushed Stone or Crushed Gravel
2"	100
1 1/2"	90-100
1"	30-55
3/4"	0-25
1/2"	0-10
#100	0-1

102-2.9 Other. All other materials shall meet commercial grade standards and shall be approved by the RPR before being incorporated into the project.

CONSTRUCTION REQUIREMENTS

102-3.1 General. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.

The RPR shall be responsible for assuring compliance to the extent that construction practices, construction operations, and construction work are involved.

102-3.2 Schedule. Prior to the start of construction, the Contractor shall submit schedules in accordance with the approved Construction Safety and Phasing Plan (CSPP) and the plans for accomplishment of temporary and permanent erosion control work for clearing and grubbing; grading; construction; paving; and structures at watercourses. The Contractor shall also submit a proposed method of erosion and dust control on haul roads and borrow pits and a plan for disposal of waste materials. Work shall not be started until the erosion control schedules and methods of operation for the applicable construction have been accepted by the RPR.

102-3.3 Construction details. The Contractor will be required to incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the plans and approved CSPP. Except where future construction operations will damage slopes, the Contractor shall perform the permanent seeding and mulching and other specified slope protection work in stages,

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as soon as substantial areas of exposed slopes can be made available. Temporary erosion and pollution control measures will be used to correct conditions that develop during construction that were not foreseen during the design stage; that are needed prior to installation of permanent control features; or that are needed temporarily to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.

Where erosion may be a problem, schedule and perform clearing and grubbing operations so that grading operations and permanent erosion control features can follow immediately if project conditions permit. Temporary erosion control measures are required if permanent measures cannot immediately follow grading operations. The RPR shall limit the area of clearing and grubbing, excavation, borrow, and embankment operations in progress, commensurate with the Contractor's capability and progress in keeping the finish grading, mulching, seeding, and other such permanent control measures current with the accepted schedule. If seasonal limitations make such coordination unrealistic, temporary erosion control measures shall be taken immediately to the extent feasible and justified as directed by the RPR.

The Contractor shall provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, or other areas of water impoundment as directed by the RPR. If temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or directed by the RPR, the work shall be performed by the Contractor and the cost shall be incidental to this item.

The RPR may increase or decrease the area of erodible earth material that can be exposed at any time based on an analysis of project conditions.

The erosion control features installed by the Contractor shall be maintained by the Contractor during the construction period.

Provide temporary structures whenever construction equipment must cross watercourses at frequent intervals. Pollutants such as fuels, lubricants, bitumen, raw sewage, wash water from concrete mixing operations, and other harmful materials shall not be discharged into any waterways, impoundments or into natural or manmade channels.

102-3.4 Installation, maintenance and removal of silt fence. Silt fences shall extend a minimum of 16 inches (41 cm) and a maximum of 34 inches (86 cm) above the ground surface. Posts shall be set no more than 10 feet (3 m) on center. Filter fabric shall be cut from a continuous roll to the length required minimizing joints where possible. When joints are necessary, the fabric shall be spliced at a support post with a minimum 12-inch (300-mm) overlap and securely sealed. A trench shall be excavated approximately 4 inches (100 mm) deep by 4 inches (100 mm) wide on the upslope side of the silt fence. The trench shall be backfilled and the soil compacted over the silt fence fabric. The Contractor shall remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control. The fence shall be maintained in good working condition until permanent erosion control is established. Silt fence shall be removed upon approval of the RPR.

102-3.5 Installation, maintenance and removal of inlet protection filter bags. Inlet protection filter bags shall be installed in the locations shown on the Plans and according to the details shown on the Plans. The Contractor shall remove and dispose of sediment that accumulates during construction and prior to establishment of permanent erosion control. The inlet protection filter bags shall be maintained in good working condition until permanent erosion control is established. Inlet protection filter bags shall be inspected at least weekly and after each runoff event. Damaged filter

bags shall be either replaced or repaired within 24 hours of inspection notification. Filter bags shall be removed upon establishment of permanent erosion control measures.

102-3.6 Installation, maintenance and removal of erosion control logs.

a. Installation. Erosion control logs shall be installed at the locations, and in accordance with the details, as indicated on the plans, or as directed by the RPR. The following stipulations also apply:

1. Erosion control logs may be either fabricated on site or delivered to the site.
2. Trenching is not required. erosion control logs shall be placed over the top of ground, wooden stakes shall be driven through the center of the filter socks to anchor them to the ground. To ensure optimum performance, heavy vegetation shall be cut down or removed, and extremely uneven surfaces shall be graded to ensure that the erosion control log uniformly contacts the ground surface.
3. Filter socks shall be placed in a continuous line. Where ends intersect, they shall be sleeved to create an interlock with a two (2) foot overlap. After one section is filled and the ends tied off, the next section shall be pulled over the tied-off end of the previous section, to create a 2-foot overlap. The overlap shall be staked. The intersecting overlaps shall be constructed to ensure that stormwater does not break through at these intersection points.

b. Maintenance. The Contractor shall remove and dispose of sediment that accumulates during construction and prior to establishment of permanent erosion control. The sock shall be maintained in good working condition until permanent erosion control is established.

Socks shall be inspected weekly and after each runoff event. Damaged socks shall be either replaced or repaired within 24 hours of inspection notification.

c. Removal. This work, if required, shall include the removal of the erosion control log and stakes. Unless biodegradable, the mesh filter sock material shall be cut open and the mesh removed. In general, the compost filter material may be left in place, however the material will be raked out leveled to surrounding grades, then seeded. Prior to such removal, however, all silt, mud and debris entrapped outside of the erosion control log shall be removed and the area cleaned up. Immediately upon removal of the erosion control logs, the remaining exposed areas will be finished as specified in specification T-901, T-905, and T-908.

102-3.7 Installation, maintenance and removal of the temporary stabilized construction entrance. The area of the construction entrance shall be cleared of all vegetation, roots, stumps, or other objectionable material. The area shall then be excavated to subgrade and graded. Filter fabric shall be placed on the prepared subgrade prior to the placement of the stone pad. The stone shall be placed in accordance with the details and to the dimensions shown on the Plans. The entrance/exit shall be maintained in a condition that will prevent tracking or flowing of sediment onto public rights of way. All sediment spilled, dropped, washed, or tracked onto public rights of way must be removed immediately. Periodic inspection and as needed maintenance shall be provided according to general maintenance and/or permit requirements. Stone and filter fabric shall be removed upon completion of construction. Immediately upon removal, the remaining exposed area will be finished as specified in specification T-901, T-905, and T-908.

102-3.8 Installation and maintenance of other temporary device materials. Any other temporary erosion or sedimentation devices approved by the RPR shall be installed in accordance with the construction plan details (if available), the device's manufacturer's recommendations, or

industry approved/recommended installation methods. The Contractor shall remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control and/or restoration of turf growth. All device materials shall be maintained in good working condition until permanent erosion control is established. All temporary devices shall be removed upon approval of the RPR for the permanent erosion control and/or restoration of turf growth.

METHOD OF MEASUREMENT

102-4.1 Temporary erosion and pollution control work required will be performed as scheduled or directed by the RPR. Completed and accepted work will be measured as follows:

- a. Temporary seeding and mulching will be measured by the square yard – NOT USED
- b. Temporary slope drains will be measured by the linear foot – NOT USED
- c. Temporary benches, dikes, dams, and sediment basins will be measured by the cubic yard (cubic meter) of excavation performed, including necessary cleaning of sediment basins, and the cubic yard of embankment placed as directed by the RPR. – NOT USED
- d. All fertilizing will be measured by the ton – NOT USED
- e. Installation and removal of silt fence will be measured by the linear foot – NOT USED
- f. Installation and removal of inlet protection will be measured per each
- g. Installation and removal of erosion control log will be measured by the linear foot – NOT USED
- h. Installation and removal of stabilized construction entrance will be measured per each – NOT USED

102-4.2 Control work performed for protection of construction areas outside the construction limits, such as borrow and waste areas, haul roads, equipment and material storage sites, and temporary plant sites, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

BASIS OF PAYMENT

102-5.1 Accepted quantities of temporary water pollution, soil erosion, and siltation control work ordered by the RPR and measured as provided in paragraph 102-4.1 will be paid for under:

- Item C-102-5.1a Temporary seeding and mulching - per square yard – NOT USED
- Item C-102-5.1b Temporary slope drains - per linear foot – NOT USED
- Item C-102-5.1c Temporary benches, dikes, dams and sediment basins - per cubic yard – NOT USED
- Item C-102-5.1d Fertilizing - per ton – NOT USED
- Item C-102-5.1e Installation and removal of silt fence - per linear feet – NOT USED
- Item C-102-5.1f Installation and removal of inlet protection - per each
- Item C-102-5.1g Installation and removal of erosion control log - per linear foot – NOT USED
- Item C-102-5.1h Installation and removal of stabilized construction entrance - per each – NOT USED

Where other directed work falls within the specifications for a work item that has a contract price, the units of work shall be measured and paid for at the contract unit price bid for the various items.

Temporary control features not covered by contract items that are ordered by the RPR will be paid for in accordance with Section 90, paragraph 90-05 *Payment for Extra Work*.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5200-33 *Hazardous Wildlife Attractants on or Near Airports*

AC 150/5370-2 *Operational Safety on Airports During Construction*

ASTM International (ASTM)

ASTM D6461 *Standard Specification for Silt Fence Materials*

United States Department of Agriculture (USDA)

FAA/USDA Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM C-105

ITEM M-001 SUMMARY OF SPECIAL WORK REQUIREMENTS

DESCRIPTION

001-1.1 GENERAL. The special requirements set forth in this section of these Specifications shall govern any aspect of the Contract work where such requirements are deemed applicable by the Owner or the Engineer. The purpose of these requirements is to help ensure that the Contract work complies with Airport Operation requirements, does not create any hazard to aircraft operations and point out special coordination or schedule conditions of which the Contractor should be aware. It shall be the Contractor's responsibility to conduct all work in strict accordance with the special requirements set forth herein, the Construction Safety and Phasing Plan (CSPP), the Contractor's Safety Plan Compliance Document (SPCD) and to fully cooperate with the Owner and the Engineer in every way necessary to fulfill the purposes of these requirements as set forth above.

Under this Specification, the Contractor shall set up their necessary general plant, including shops, storage areas, office, and such sanitary and other facilities as are required by local or state law or regulation. No separate measurement for payment will be made for work required by this item but rather the work shall be considered incidental to the overall project, unless covered elsewhere.

Required materials that are not to be a part of the completed contract shall be, as determined by the Contractor, except that they shall conform to any pertinent local or state law, regulation, or code.

Work in providing the facilities and services under this item shall be done in a safe and workmanlike manner and shall conform to any pertinent local or state law, regulation, or code. Good housekeeping consistent with safety shall be maintained.

001-1.2 PROJECT DESCRIPTION.

This project includes the selective cutting & removal of trees, installation of drilled concrete shafts including rebar, pouring and curing of concrete, erection of sound barrier supports and panels, localized site grading, topsoil and seeding, general restoration of work area and contractor staging areas, and any other incidental work required to provide a completed project.

Work on the project will include but not be limited to: traffic control and management, Drilled Concrete Shafts, Installation of Structural Steel Framing and sound barrier panels, and other work as shown on the plans, as specified here in and as directed by the Engineer.

001-1.3 PROJECT TIMETABLE.

The timetable of the project needs to be taken into consideration during bidding.

Anticipated Project Timetable is as follows:

- It is anticipated that funding will be available (but not guaranteed) in the late Summer/early Fall of 2025.
- Notice of Award will be made soon after the availability of the funding.
- Contracts execution in late Summer/early Fall of 2025
- Anticipate having a Notice to Proceed for any installation and procurement to be issued shortly after Contract execution.
- It is currently anticipated that the construction work will be broken into 2 scheduling phases occurring over a total of one hundred (100) calendar days. It is anticipated that the

foundation installations will occur in Fall 2025 and have fifty-five (55) calendar days. After the foundation work is installed, a winter shutdown will be used with a Spring 2026 wall installation having forty-five (45) calendar days. This schedule allows for material lead times required for the wall components to be fabricated and avoid construction weather constraints (i.e. a Winter shutdown allows for the Contractor to effectively perform the work).

- However, there may be other potential issues that could alter the anticipated schedule and cause a delay for the start or second phase of the project includes, but is not limited to:
 - Weather conditions impacting the scheduling of the work
 - Transportation constraints as the project site is located on an island and any associated seasonal tourism constraints
 - Longer than anticipated lead time in material procurement

The project will be performed in a single work closure location for safety and to minimize disturbance to Airport operations by construction activities for each of the scheduling phases.

The Contractor shall complete all work in all work areas **within a total of one hundred (100) Calander Days. The Fall 2025 phase will have fifty-five (55) calendar days and the Spring 2026 phase will have forty-five (45) calendar days.**

001-1.4 BID ALTERNATIVES.

The project has no bid alternatives.

001-1.5 EXISTING CONDITIONS AND PROJECT REQUIREMENTS. With the submission of a bid, it shall be understood that the Contractor has fully examined the Plans, Specifications and existing field conditions and fully understands all project requirements and obligations. Any claims for additional compensation for failure to completely understand the project requirements and obligations will be rejected by the Owner.

The Owner will be holding a pre-bid conference at which time prospective bidders will have access to investigate the work site. Additional access to the Airfield may be obtained with the permission of the Owner. All requests for additional access shall be made by contacting the Engineer.

001-1.6 WETLANDS. There are no wetlands within the project site.

001-1.7 PERMIT AND REGULATION COMPLIANCE. The Contractor shall comply with all project permits, general permits, state laws, and local regulations. Any fines assessed against the Airport and related expenses due to non-compliance with the permits, laws, rules, and regulations cited in the Contract Documents and caused by the Contractor and their personnel, Subcontractors and Vendors shall be paid for by the Contractor.

For permit requirements refer to the Special Provisions of the project specifications.

001-1.8 PRE-CONSTRUCTION VIDEO SURVEY. The Contractor shall perform a video survey prior to the start of construction. The intent of the survey will be to document existing conditions prior to construction. The video survey shall include but not be limited to:

- Apron Area
- Haul Routes
- Staging Area
- And other areas subject to Contractor Activities

Audio notes shall accompany the video to identify the existing condition of the items being surveyed.

A copy of the video shall be provided to the Engineer in digital format prior to the start of construction.

001-1.9 COORDINATION WITH THE AIRPORT AND OTHER CONTRACTORS. The Owner reserves the right to contract for and perform other work on the airfield within and outside the work areas of this contract.

When separate Contractors are let within the limits of any one project, each Contractor shall conduct their work so as not to interfere with or hinder the progress of completion of the work being performed by other Contractors. Contractors working within the same project area shall cooperate with each other as directed. Where necessary, each Contractor shall make reasonable adjustments in their schedules to allow for the proper sequencing of work by others.

The Contractor shall arrange their work and shall place and dispose of the materials being used or stored for later use so as not to interfere with the operations of the other Contractors. Contractors utilizing haul routes shall share in the responsibility of maintenance, dust control, and restoration of the haul routes. The responsibilities shall be pro-rated to each Contractor based on use. In areas of dispute between Contractors on the responsibilities for maintenance, dust control, and restoration of the haul routes or other items, the Engineer shall have the sole judgment as to the assessment of responsibilities to each respective Contractor.

Coordination between Contractors shall be at no additional cost to the Owner.

No additional compensation will be considered eligible due to contractor claims of delay, hindrance, or interference from other contractors.

001-1.10 CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). To enhance safety and to minimize disturbance to daily airport operations the project has been **proposed to occur within a single phase (or work area)** as shown on the Construction Safety and Phasing Plan Sets in the Plans. The safety and phasing drawings are also part of the Construction Safety and Phasing Plan (CSPP). The Contractor shall follow the CSPP explicitly. Deviations from the CSPP will require a revision to the CSPP subject to the Owner.

CSPP change request for the benefit of the contractor will not be considered justification for a contract time extension. The Owner further reserves the right to back charge the Contract of all cost incurred for changes to the CSPP requested by the contractor.

Refer to Specification M-120 for additional information on the Construction Safety and Phasing Plan and Maintenance and Protection of Traffic.

001-1.11 SAFETY PLAN COMPLIANCE DOCUMENT (SPCD). The Contractor will be required to provide a Safety Plan Compliance Document (SPCD). The SPCD will detail how the CSPP will be compiled with during the execution of the project. Within the SPCD, the Contractor shall provide details including but not limited to; contact names and numbers, barricades proposed, haul routes to work areas, communication plan, fueling of equipment, Foreign Object Debris (FOD) and dust control, verification of height restriction on stock piles and equipment, and other safety procedures. The Contractor shall also include a SPCD certification that they have read, understand the requirements of, and will follow the CSPP. Approval of the SPCD by the Owner will be required prior to the issuance of the Notice to Proceed (NTP).

001-1.12 UNDERGROUND UTILITIES AND CABLES. The approximate locations of known utilities and underground cables are shown on the Plans. There may exist active or inactive underground cables and utilities within the project areas that are not shown on the Plans. Prior to commencement of any excavation the Contractor shall locate and verify the locations and depths of all underground utilities and cables.

The Contractor shall coordinate all work with the following agencies as appropriate.

1. The Federal Aviation Administration – Airways Facilities Branch
2. The National Oceanic and Atmospheric Administration – National Weather Bureau
3. Local Power & Utility Companies
4. Nantucket Memorial Airport

The Contractor shall furnish and install all materials necessary to protect existing underground utilities and cables that are to remain. The Contractor shall comply with the current version of the Dig Safe Law, effective Dec 17, 1998, or as revised. The Contractor is required to pre-mark the construction-site and give notice of planned digging near utility, cable, and fuel lines.

The Contractor shall locate and verify all underground utilities and cables at no additional cost to the Owner.

The Contractor shall repair, at their own expense, utilities damaged by their operations, including any damage done by driving their equipment over existing underground cables. The repair of utilities shall be inspected and approved by the appropriate utility and witnessed by the Engineer.

001-1.13 SUBMITTALS. Upon receipt of the “NOTICE OF AWARD” of the Contract, the Contractor shall submit all appropriate Shop Drawings, material certifications, Buy American Certifications, federal compliance documents, and equipment data sheets in accordance with relevant sections of these Specifications. Once approvals have been obtained, the Contractor shall order all necessary equipment and materials and shall notify the Engineer of their receipt. Please note that Contract Time will not start until the date specified in the “NOTICE TO PROCEED” for construction.

The Contractor shall identify all long lead-time material items and incorporate them into the construction schedule. The Contractor is reminded to include sufficient time for material Shop Drawing review in this schedule. In general, submittals requiring in-office review only will be processed within ten (10) business days. Submittals requiring outside review can take up to twenty (20) business days. It shall be the Contractor's responsibility to identify long lead-time material items and incorporate their delivery into the overall work schedule.

No additional Contract time will be provided for failure to identify long lead-time materials.

001-1.14 WORK HOURS. The Contractor will be permitted to work from 7 AM to 5 PM daily. If applicable, local work hour ordinances shall also apply. Additional hours may be allowed with the approval of the Owner. In case of conflict in the Work Hours noted, the more stringent shall govern. Additional hours may be allowed with prior approval of the Owner.

001-1.15 OVERALL WORK SCHEDULE. The Contractor shall be required to submit a proposed schedule of how the work will be accomplished over the Contract period. The schedule shall be prepared using Microsoft Project or similar computer software. The schedule shall indicate detailed tasks with early and late start dates and critical path activities. This overall schedule shall be submitted to the Engineer prior to the Pre-Construction Conference. The Contractor shall be prepared to review the schedule at the Pre-Construction Conference with all parties. If so requested, the Contractor shall make modifications to the schedule to minimize disruption to Airport operations. The overall construction schedule is subject to the approval of the Airport and the Engineer.

It shall be understood that the “NOTICE TO PROCEED” will not be provided until the overall work schedule is submitted and determined to be acceptable by the Engineer and Owner.

During construction, the overall project schedule shall be updated biweekly with copies provided to

the Engineer.

The Contractor shall notify the Engineer at least seventy-two (72) hours in advance of the time they intend to start work. It should be noted by the Contractor that seventy-two (72) hours is the time required by the Owner to issue a proper NOTAM of the pending construction activities.

001-1.16 MONTHLY, WEEKLY, AND DAILY SCHEDULES REQUIRED. To facilitate the specific requirements and intent of this section, the Contractor shall prepare and submit a schedule of operations each week for the following workweek. The schedule shall be given to the Engineer by the end of the work week, proceeding the week covered by the schedule. The weekly schedule shall be subject to the approval of the Engineer, and shall include as a minimum, the following:

1. Major work items to be accomplished.
2. Subcontractors to be on-site.
3. Names of each Contractor's and Subcontractor's personnel to be on-site.
4. Type and quantity of equipment to be on-site.
5. Areas of the site where construction is scheduled.
6. Any anticipated closing of facilities that will be required.
7. Other information requested by the Owner or Engineer.

A daily schedule shall be provided to the Engineer each morning of activities that will be accomplished that day. The daily schedule may be verbal. The Engineer may disallow work that is not included in the current weekly work schedule.

001-1.17 ON-SITE SUPERVISION. The Contractor shall have a **competent superintendent on the work site at all times** that workers of the Contractor and/or Subcontractors and vendors are on-site.

Any time that work is proceeding without the Contractor's superintendent on-site by the Prime Contractor, Subcontractors and Vendors will result in an immediate suspension of work by the Owner. If a suspension of work order is issued, the Contractor shall secure and maintain the site during the period of the suspension of work. No additional compensation will be considered for work performed in preparation of the suspension of work or maintenance of the site during the suspension. No additional Contract time or compensation will be considered for delays or work required by the Contractor for failure to have a competent superintendent on-site at all times.

The superintendent(s) shall be fully authorized to act as the Contractor's agent on the project. The superintendent shall be capable of reading and thoroughly understanding the Plans and Specifications and shall receive and fulfill instructions from the Engineer or the Owner. The superintendent(s) shall be experienced in the type and nature of the work to be completed.

001-1.18 CONTRACTOR "ON-CALL NAMES AND PHONE NUMBERS". The Contractor shall provide the Engineer and the Airport Manager with the name(s) and telephone number(s) of persons (two (2) minimum) that can be contacted before or after work hours for emergency situations affecting the construction. The Contractor shall be "on call" at all times during the length of the construction period until the end of the Warranty Period as described in the Supplemental General Provisions. The Contractor contact information shall be provided to the Engineer one (1) week prior to the Pre-Construction Conference.

001-1.19 ADDITIONAL RESIDENT ENGINEER SERVICES. The Owner has established a Resident Engineering budget based on the work hours made available to the Contractor. If the Contractor's work schedule exceeds the weekly Resident Engineering hours budgeted for the project, the Contractor agrees to pay the Owner the additional cost for the Resident Engineer more than the budgeted hours. The weekly Resident Engineering budget is for up to number of hours

per week identified in *Division 2 – Special Provisions/Supplemental General Conditions paragraph 13*. The cost to the Contractor shall be based on the Resident Engineer's actual billing rate plus expenses and fifteen percent (15%) profit in effect at the time the services were provided. For budgeting purposes, refer to *Division 2 – Special Provisions/Supplemental General Conditions paragraph 13* for an hourly rate that is recommended. It shall be understood that these charges are in addition to any other damage claims available to the Owner (Liquidated Damages, Breach of Contract, etc.), as described within the Contract Documents.

001-1.20 CONTRACTOR'S AUTHORIZED AREA. The Contractor shall not have access to the entire Airport. The Contractor shall be restricted to the designated work areas, haul route(s), staging area(s) and employee parking area shown on the plans.

As a subsidiary obligation, the contractor will be required to mark all haul roads with anchored channelizer cones or other approved devices and provided signage as required. No additional compensation will be allowed in meeting this obligation.

The Contractor shall keep personnel and equipment clear of all other Airport critical areas and active Aircraft Operations Areas (AOA) at all times during construction.

No stationary equipment or stockpiles of materials will be allowed to penetrate the Runway FAR Part 77 Approach Surfaces, or the runway transitional surfaces, and the runway or taxiway object free areas unless the area is closed to aircraft operations. At no time shall any construction equipment or stockpiles of materials penetrate the threshold approach surface.

For additional information refer to the Safety Plans.

001-1.21 CONTRACTOR STAGING AREA AND EQUIPMENT YARD. The area(s) for the location for storing materials and servicing, repairing, and parking construction equipment (Contractor's staging areas and auto parking areas) are located as shown on the Plans.

The Contractor will only be permitted to store equipment and materials in the Contractor's staging area. All equipment booms shall be lowered at the close of each day's work or when stored.

The Contractor (and their Subcontractors) shall provide all necessary temporary fencing and gates to protect materials and equipment from pilferage. The Owner will not be responsible for any vandalized equipment or material stored on the Airport property.

All areas occupied by the Contractor shall be maintained in a clean and orderly condition satisfactory to the Engineer. Attention shall be given to the elimination of combustible rubbish or debris in the areas and none shall be left exposed overnight or at other periods of time the work is shut down.

At the completion of the Contract, all Contractor's and Subcontractor's facilities shall be removed promptly in a workmanlike manner and the area restored to original or better condition and left clean and free of all debris or surplus material.

001-1.22 HAUL ROUTES. The Contractor shall not be granted access to the entire airfield and shall restrict their activities to the designated haul routes (roads) and service roads, staging areas and work areas as shown on the Plans.

Haul routes at the Airport shall be shown on the Plans. The Contractor shall stake, delineate with channelizer or other measures acceptable to the RPR the haul routes to be used by Contractor vehicles. The maximum speed limit on all haul routes is **15 mph**.

In areas that haul routes cross underground cable(s) or utilities, the crossing shall be protected by placing steel plates over the cable(s) or utility. Any damage to the underground cable(s) or utilities shall be repaired or replaced at the Owners discretion at no additional cost to the Owner.

When active airfield pavements (runways, taxiways, and aprons) are used for haul routes they shall be kept clean of all stones, dirt, debris and foreign matter at all times.

The Contractor shall maintain all haul routes (roads) during the course of construction.

All paved haul routes shall be kept clean at all times to prevent the accumulation of dirt and mud and other debris. Haul routes shall be cleaned at regular intervals not to exceed two (2) hours and prior to opening areas for use by aircraft. If, in the opinion of the Engineer, sweeping of the pavement surface will generate too much dust, then a vacuum type of street cleaner or other approved pavement cleaning equipment shall be used.

The Contractor shall always provide dust control on the haul routes during the duration of this project. The Contractor shall have a functional water truck and operator on-site at all times, who shall monitor construction activities for dust and take corrective action as required.

All haul routes constructed or disturbed shall be restored to their original condition or better before the Contract will be considered complete. This includes any damage to paved surfaces caused by the Contractor's activities. Unless otherwise shown on the Plans, the construction, or improvements to haul routes, all restoration of haul routes (including pavement repair) and dust control shall not be measured separately for payment but rather shall be considered incidental to the project.

All non-paved turf areas disturbed by the Contractor's operations shall be scarified or otherwise loosened to a depth not less than five inches (5"). Clods shall be broken and the top three inches (3") of soil shall be worked into a satisfactory seedbed by discing, or by use of cultipackers, rollers, drags, harrows, or other appropriate means. This area shall then be seeded, fertilized and mulched.

All pavements damaged by the Contractor's activities shall be repaired to equal or better than prior conditions and to the satisfaction of the Engineer. The work may include, but not be limited to; saw cutting and removing damaged pavement, repair or replacement of base materials, tack coating of existing pavement edges, placement of hot bituminous concrete pavement meeting P-403 Specifications, placed in two (2) lifts or more matching the thickness of the existing pavement, and re-marking of the pavements.

When public roads and highways are used as haul routes, it will become the Contractor's responsibility to obtain the proper permits needed for this function and to obey all rules and regulations pertinent to the public road and highway.

001-1.23 REQUIRED COMPLIANCE OF CONTRACTOR PERSONNEL WITH AIRPORT SAFETY AND SECURITY MEASURES. The Contractor shall take all precautions necessary to ensure the safety of operating aircraft; airport security is maintained, as well as the safety of their own equipment and personnel.

The Contractor shall be responsible for meeting all applicable Local, State, and Airport regulations concerning safety and security.

The Contractor is responsible for any temporary fencing, gates or security arrangements needed to meet these requirements. See Plans for additional information on operations and safety during construction.

001-1.24 TRENCHES AND EXCAVATIONS AND COVER REQUIREMENTS. The Contractor will not be permitted to leave any trenches or excavations exceeding three (3) inches in depth open within active Safety Areas (RSA/TSA), Object Free Areas (ROFA/TOFA) and other active Aircraft Operation Areas (AOA) at night, on weekends, or at other times when work is not actually taking place on the excavation. All excavations shall be backfilled, compacted, and the pavement repaired and properly cured prior to the area being reopened to traffic.

Prior to the close of work each day, the Contractor shall ensure that the work area within active Safety Areas, Object Free Areas, and other active Aircraft Operation Areas (AOAs) are graded away from the pavements at a maximum slope of five percent (5%) and shall be left in such a condition that it will drain readily and effectively and will not pose a hazard to vehicles or aircraft. No piles of soil shall be left unspread, no sharp changes in grade will be permitted, and the surface shall be thoroughly compacted.

001-1.25 AIRFIELD BADGES. All field work on this project will be performed inside the airfield perimeter fence within a secured area. All contractors and vendors will need to follow the badging and security procedure of the Nantucket Memorial Airport.

Security badging procedures includes, but is not limited to:

- On-site Finger printing and FBI background check. To be performed prior to the security training.
- On-site security training.
- ~~Written examination.~~
- ~~On-site driver training.~~

The badging process will require multiple trips to the airport and can take up to 30 to 60 days. The contractor is advised to contact the Nantucket Memorial Airport badging office, and obtain the most current badging requirements, procedures, and fee schedule.

While it is possible for some non-badged workers to be escorted within the secured area(s), non-badged personnel must be within direct supervision of a badged person. Direct supervision means within direct eyesight and vocal range of each other.

The Owner and Engineer have the sole right to deny airfield access to any personnel, whom in the opinion of the Airport present a safety or security risk.

001-1.26 AIRFIELD DRIVING. All Contractor and Subcontractor shall follow haul routes as shown on the safety and phasing plans, the prime contractor is responsible for making all subs aware of these haul routes. No active taxiways or runways shall be crossed without the ability to monitor the airport **UNICOM: 122.95 MHz, FAA Tower: 118.3 MHz & FAA GROUND: 132.50 MHz**

The Owner and Engineer reserve the right to deny airfield access to any personnel, whom in the opinion of the Airport present a safety or security risk.

001-1.27 VEHICLE IDENTIFICATION. All Contractor vehicles shall have the company identification plainly visible on both sides of the vehicle in order to identify the vehicle and a unique and visible identification number or letter.

In addition, each Contractor's vehicle operating on the Airport or public roads shall be equipped with an amber flashing light. Each Contractor's motorized vehicle operating within the Airport or in the vicinity of an active runway approach shall be equipped with an amber flashing light and/or a three foot (3') square flag consisting of international orange and white squares not less than one foot (1') displayed in full view above the vehicle. Work during poor visibility conditions and at night will require amber flashing light.

001-1.28 ESCORT VEHICLES. The Contractor shall provide an airfield escort for all vehicles requiring access to the work area locations which are not radio equipped and are NOT crossing active Taxiways or Runways, only Non-Movement Areas.

001-1.29 ESCORTS. The Contractor shall provide one (1) badged escort for every crew working on the airfield during the project. Refer to the Construction Safety and Phasing Plan for further

details on the requirements for the escorts.

01-1.30 WILDLIFE MANAGEMENT. The Contractor shall be responsible to assist the Airport in the management of wildlife in the designated work areas to the satisfaction of the Engineer.

No wildlife attractants such as food scraps, grass seeds or ponded water shall remain on or near the Airport property. The Contractor shall be responsible for maintaining the construction site in the designated work areas to the satisfaction of the Engineer. Spotted wildlife shall be reported to Airport Operations.

001-1.31 FOREIGN OBJECT DEBRIS (FOD) CONTROL PROVISIONS. Waste and loose materials, commonly referred to as Foreign Object Debris (FOD) are capable of damaging aircraft and are a life safety concern. Contractors and their employees shall not leave or place FOD on or near active aircraft movement areas. Materials tracked onto these areas shall be continuously removed during the construction project.

The Contractor shall continuously monitor the active aircraft pavements for FOD and immediately, notify the Engineer and Airport operations if FOD is observed. With authorization, the Contractor will be responsible to remove or mitigate the FOD concern.

The Contractor shall have on-site at all times a sweeper which is capable of removing, to the satisfaction of the Engineer, any dirt or FOD tracked onto active pavements.

Prior to leaving the work site each night, the Contractor shall coordinate a FOD inspection with Airport Operations of all active pavement surfaces impacted by the construction activities that day and coordinate with Airport Operations the removal of any and all FOD encountered.

The Contractor shall take all necessary precautions to prevent FOD, including but not limited to covering dumpsters, securing store materials, cleaning tires prior to traveling on pavements, and other measures as directed by the Engineer.

001-1.32 HAZARDOUS MATERIAL (HAZMAT) MANAGEMENT. All hazardous and unsuitable materials, as identified on the Plans and Specifications or as removed by the Contractor, shall be legally disposed of by the Contractor off Airport property.

001-1.33 INSPECTION REQUIREMENTS. At the end of each workday, the Contractor shall ensure that conditions allow for safe Airport operations to the satisfaction of the Airport prior to leaving the site for the day.

Any deficiencies encountered in the engineer inspection shall be remedied prior to the Contractor leaving the site for the day. The Contractor shall provide written daily reports of the inspection, noting deficiencies found and corrective action taken to remedy the deficiency.

001-1.34 RADIO CONTROL. The Contractor shall have reliable two-way communication between all work crews, the Resident Engineer and Airport Operations at all times. No FAA or other Airport radio frequency will be used for this purpose. **Contractor provided radios or use of cellular phones will be considered acceptable.**

The Contractor shall have on-site at all times radio equipped vehicles, at least one (1) per working crew, which shall be monitored by a competent individual at all times during working hours. The radio shall have a two-way radio capable of communicating over the UNICOM/CTAF frequency of **122.95 MHz**. The radio shall be capable of reliable two-way communication from any location on the Airport.

The Contractor shall supplement the radio equipped vehicles, with handheld radios for when the radio equipped vehicles are not occupied. Before the start of daily activities, the Contractor shall

perform a radio check to ensure radios are in proper working order.

001-1.35 RESIDENT ENGINEER COMMUNICATION. Not Required to supply phones.

001-1.36 ENGINEER'S AIRFIELD RADIOS. Not Required to supply radios.

001-1.37 ENGINEER'S FIELD OFFICE AND EQUIPMENT. Engineer's Field Office is not required for this project.

001-1.38 CONSTRUCTION LAYOUT. The Engineer will provide layout information that includes horizontal and vertical control points. Prior to layout, the Contractor shall inverse between these points and satisfy to them self as to the accuracy of the control points provided. The layout for construction shall be the responsibility of the Contractor.

The Contractor shall provide assistance to the Engineer as requested to check the layout or otherwise control the work. Such assistance shall be understood to include the provision of suitable manpower to assist the Engineer in taping measurements, holding a survey rod for checking grades and the like. The Contractor's obligations for layout and furnishing assistance to the Engineer shall be deemed incidental to the completion of the various work items and no separate payment will be made for such layout, final survey, and assistance.

001-1.39 MAINTENANCE OF THE CONSTRUCTION-SITE. The Contractor shall keep the construction-site free of paper, boxes, and other debris, which could be blown onto the runways and taxiways. The Contractor's main staging area shall be supplied with a dumpster with cover. All Airport pavements shall be kept clear and clean at all times. All rocks, mud, and other debris carried onto the Airport pavement by the Contractor's equipment must be reported to the Engineer or the Owner. The Owner will then close the affected area to traffic and the Contractor will immediately sweep, wash, and/or vacuum the area to the satisfaction of the Owner.

The Contractor shall also be responsible for supplying any other equipment as may be necessary to clean all areas that are contaminated as a result of their operations to the complete satisfaction of the Engineer and the Owner.

Trucks loaded in the construction area shall have loads trimmed as necessary to assure that no particles, stones, or debris will fall off and that no legal load limits are exceeded.

The Contractor shall be particularly careful not to track foreign material onto pavements outside of and within the Airport. The Contractor shall be responsible for removing foreign materials from vehicle tires prior to the vehicle leaving its work area.

001-1.40 WASTE REDUCTION AND RECYCLE PLAN. The Contractor shall prepare a waste reduction and recycle plan which will specify how the Contractor intends to minimize and reduce waste and recycle waste materials for review by the Engineer.

001-1.41 TEMPORARY WORK STOPPAGES. Temporary work stoppages are subject to the approval of the Owner. If the Contractor desires to request a temporary work stoppage, it shall be made in writing to the owner. The request shall state the reason for the temporary work stoppage request. It shall be understood that it is the Owner sole decision whether a temporary work stoppage request will be granted or denied.

The Owner reserves the right to order a temporary work stoppage for any reason deemed by the Owner to be in the airports best interest. If the Owner does implement a temporary work stoppage, it shall be in writing to the contractor. No contract time will be incurred by the contractor for Temporary work stoppage ordered by the Owner. No additional compensation will be allowed for a temporary work stoppage ordered by the Owner.

The Contractor shall be responsible for securing and stabilizing all areas disturbed by Contractor operations for the period of the shut down and maintain the site to the satisfaction of the Engineer. All erosion and sedimentation control measures shall be put in place and maintained and checked regularly through the course of the temporary work stoppage. The Contractor agrees to compensate the Owner for additional all additional soft costs No additional compensation will be allowed for temporary work stoppages.

001-1.42 "AS-BUILT DRAWINGS" (RECORD DRAWINGS) AND FINAL SURVEY. Not required for this project.

001-1.43 LIGHTED RUNWAY CLOSURE MARKERS AND BARRICADES.

Lighted Runway Closure Markers are not required for this project. Low-profile Lighted barricades shall be provided by the Contractor (refer to Section M-120). The Contractor shall assist the Airport of the set-up, adjustment, relocation and final removal of the low-profile barricades when requested by the Airport.

001-1.44 MAINTENANCE OF THE EXISTING AIRFIELD LIGHTING. The existing airfield lighting systems shall be maintained throughout construction. At the end of each day's construction activities, the Contractor shall assist the Engineer in a lighting check to verify that construction activities have not affected the operation of the airfield lights. All lights and signs on closed taxiways shall be covered during the duration of the phase, as applicable.

001-1.45 ACCEPTANCE TESTING. All acceptance testing of materials required by various sections of the Specifications will be at no cost to the Contractor unless otherwise specified herein. However, the Contractor will pay for the cost of any retesting required because the materials did not pass the acceptance tests.

001-1.46 PROJECT PHOTOGRAPHS. Not required for this project.

001-1.47 MASSACHUSETTS PREVAILING WAGE COMPLIANCE. This Project is subject to the requirements of the Massachusetts Prevailing Wage.

NOTE: No federal Davis-Bacon Wage compliance required for this project.

The Contractor (also referred to as the Principal Contractor, Prime Contractor or General Contractor) is responsible for full compliance of all employers (the Contractor, Subcontractor, any/all lower-tier Subcontractors) with the labor standards and provisions applicable to this Project.

All certified payrolls shall be channeled through the Contractor. It shall be the Contractor's responsibility to review all Subcontractor, and any/all lower-tier Subcontractor's certified payrolls for compliance with the labor standards provisions applicable to this Project. Each Subcontractor and any/all lower-tier Subcontractors payroll submission shall be reviewed and stamped by the Contractor as "reviewed and found to be in compliance" prior to submission to the Engineer.

Certified payrolls shall be submitted in a format as prescribed by the law.

If the Project requires a work classification and rate that is not contained within the decisions or classifications contained within the Specifications, it shall be the Contractor's responsibility to request an additional classification(s) from the Department of the Labor. Failure of the decision to include a classification or wage determination does not relieve the Contractor from the obligation to meet applicable classification and wage rates. If additional wage rate requests are requested by the Contractor, the Contractor shall provide a copy of all correspondence and wage requests to the Engineer and the Airport Operator.

The Contractor shall post the Project's wage rate classifications at the work site, in a location

approved by the Engineer prior to starting work.

The Owner is required to conduct employee interviews for compliance with the Davis-Bacon Wage requirements. The Contractor shall make employees available for interviews.

If it is necessary to make payment restitution to employee(s) the restitution shall be made independently of standard payroll. Documentation shall be provided which details the restitution action.

Certified payrolls shall be submitted and accepted prior to the acceptance of any Periodic Cost Estimates (PCEs) for the work period covered in the PCEs. Retainage for the project will not be released until all project certified payrolls have been submitted to and accepted by the Engineer.

001-1.48 WORK FORCE UTILIZATION REPORTING. No federal Work Force Utilization reporting is necessary for this project.

001-1.49 MONTHLY DBE OR MBE/WBE REPORTING. No federal DBE or state MBE/WBE reporting is necessary for this project.

001-1.50 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) DOCUMENTATION. All employees to be employed at the job site shall have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration (OSHA) that is ten (10) hours in duration at the time the employee begins work.

The Contractor shall furnish documentation of successful completion of said course by either a copy of the OSHA card or a letter or certificate of completion from the person or company that administered the course. OSHA documentation shall be provided prior to any person beginning work on the site. It is recommended that Contractors and Subcontractors provide a copy of OSHA documentation for all employees prior to the start of work.

Periodic Cost Estimates will not be accepted for payment unless all OSHA documentation has been received. Retainage for the Project will not be released until all Project OSHA cards have been submitted to and approved by the Engineer.

001-1.51 CONTRACT CHANGE ORDERS. Any work to be included in this Project by Change Order must be approved by the Nantucket Memorial Airport, Town of Nantucket, and the Engineer. Any additional cost for change order work shall be at a fair and reasonable cost to the Owner. The Contractor shall provide a detailed breakdown of costs on all Change Order work. The breakdown shall use Contract unit prices, if available. If Contract unit prices are not available the Contractor shall provide a detailed breakdown of costs, indicating labor, equipment, and materials as separate line items and then sum together for a subtotal. Material costs shall include copies of supplier's quotes. Administrative costs, including but not limited to, office time and costs to increase the bonds or insurance will not be eligible for consideration in the change order. Labor costs for pricing Change Orders shall be actual rates including fringes without mark-up. Equipment costs shall be at standard industry rates, not to exceed rates as published by RS Means or other approved industry rate guidelines.

Mark-up for overhead and profit shall be limited to ten (10) percent for the Contractor or Subcontractor performing the Change Order work. When a Subcontractor or lower-tiered Subcontractor is performing the Change Order work, each Subcontractor or Contractor above the firm performing the Change Order work shall be limited to a five (5) percent mark-up for overhead and profit. The total mark-up for any Change Order shall not exceed twenty (20) percent of the change order prior to the application of profit.

001-1.52 SUBSTANTIAL COMPLETION. Substantial Completion shall be achieved when work is complete, and the work areas can be occupied or utilized for their intended purpose by the Owner without interference or restrictions.

It shall be the Contractor's responsibility to inform the Engineer, in writing, when the Contractor believes the project is substantially completed. The Engineer and Owner maintain the sole right to accept the requested substantial completion date or reject it. If the date of substantial completion is accepted, the Owner will temporarily suspend Contract time effective at the end of the day on the date of substantial completion. On or after the date of substantial completion, the Engineer will submit to the Contractor, in writing, a punch list of deficiencies.

The Contractor shall complete all punch list work (both field work and administrative work) within thirty (30) calendar days of the receipt of the punch list from the Engineer. Within the thirty (30) calendar days, the Contractor can work on the site up to five (5) days. Should the field portions of the punch list work remain incomplete after five (5) days of work on the site, the Owner may restart the assessment of Contract time. If any of the punch list work, including administrative work, remains incomplete after thirty (30) calendar days, the Owner may restart the assessment of Contract time.

The resumption of contract time may result in the assessment of liquidated damages in accordance with Supplemental General Provisions.

If the Contractor feels that additional time is required for field work, administrative work, or both, they may submit a request for additional time in writing to the Engineer before the start of work on the punch list. The request must include supporting justification and a schedule to complete the work. The Engineer and Owner maintain the sole right to accept the request for additional time or reject it. If no request for additional time is received by the engineer prior to the start of punch list work, it will be understood that the Contractor accepts the time frame outlined above.

The Owner reserves the right to add additional items to the punch list at any time. If the Contractor feels that additional time is required for the additional punch list item or items, they may submit a request for additional time in writing to the Engineer before the start of work on the additional punch list item or items. The request must include supporting justification and a schedule to complete the work. The Engineer and Owner maintain the sole right to accept the request for additional time or reject it. If no request for additional time is received by the engineer prior to the start of punch list work, it will be understood that the Contractor accepts the time frame outlined above.

001-1.53 REQUIRED SUBMITTALS. The following items must be submitted to the Engineer as part of this Specification section (along with all other submittals specifically referenced in the Plans and Specifications):

- Insurance Certificates
- Pre-Construction Video/Photos
- Project Schedules
- Item Payment Breakdown Schedules (see Section M-120)
- Safety Plan Compliance Document (SPCD)
- Waste Reduction and Recycling Plan
- Construction Plan (detailing means and methods)
- Material Shop Drawings
- Project Progress Photographs – *Not Required for project*
- As-Built Plans – *Not Required for project*

- Work Force Utilization Documentation (*Federal Work Force Utilization Not Required*)
- DBE or MBE/WBE Documentation (*Federal DBE or State MBE/WBE Not Required*)
- Payroll Certifications – Massachusetts Prevailing Wage ONLY (*Davis Bacon Wages are Not Required*)
- OSHA 10-Hour Worker Compliance Documentation
- Signed Contractor’s Guarantee (after substantial completion)
- Lien Waiver

METHOD OF MEASUREMENT & BASIS OF PAYMENT

001-2.1 No separate measurement or payment will be made for work under this item unless carried in other item specification section. This work shall be considered incidental to the overall project.

END OF SECTION M-001

ITEM M-120 CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) AND MAINTENANCE AND PROTECTION OF TRAFFIC

DESCRIPTION

120-1.1 GENERAL. This work shall consist of maintaining aircraft and vehicular traffic and protecting the public from damage to person and property within the limits of and for the duration of the Contract.

The Contractor shall comply with all guidelines regarding construction safety set forth in FAA Advisory Circular 150/5370-2G, *Operational Safety on Airports during Construction*, or latest revision and all Special Provisions, or latest revision.

The following items are specifically included without limiting the generality implied by these Specifications and the Contract Drawings.

- Preparation of the Safety Plan Compliance Document (SPCD) with submission to the Engineer/Resident Project Representative (RPR) and Airport for review and implementation.
- Monitoring and implementation of the Construction Safety and Phasing Plan (CSPP) and SPCD throughout the project.
- Acquisition, installation, maintenance and removal of temporary work zone delineation fencing, including the furnishing of stakes and cones.
- Installation, maintenance, and removal/restoration of any temporary haul routes/roads and staging areas.
- Installation, maintenance and removal of temporary or permanent barricades, warning signs, hazard markings and other traffic control/safety devices. The Contractor shall provide the barricades and traffic control/safety devices and shall remain the Contractor's property at the completion of the project.
- Procurement, placement, maintenance and removal of low-profile lighted barricades and cones to be rented/purchased by the Contractor.
- Placement, maintenance and removal of temporary signage and pavement markings.
- Staged or phased construction.
- Off-peak construction periods.
- Location and marking of all existing underground lighting conduits and cabling, other airfield circuitry for communications and other SPONSOR and FAA owned facilities, and all other underground utilities within the project work areas. It is assumed that a utility location company will be required to be used by the Contractor for the location of all underground utilities.
- Installation, maintenance, and removal of temporary lights and lighting circuits, including the use of any "jumpers" for any affected circuits, as required.
- Installation, maintenance, and removal of any temporary drainage, including, ditches, swales, piping and de-watering of work areas.
- Alteration, adjustment, maintenance of any drainage inlets, structures or systems necessary

to maintain runway drainage during construction.

- Cleaning and maintenance of all areas within construction limits and haul routes or areas disturbed by the Contractor's operation via vacuum sweeper trucks.
- Restoration of all surfaces disturbed because of the Contractor's Operations, which are not otherwise paid for under a specific item, including but not limited to: haul roads, haul routes, staging areas, stockpile locations, and other areas outside of payment limits.
- Submission of Project Record information and conformance with other requirements as outlined in Section M-001, Summary of Special Work Requirements.

METHOD OF MEASUREMENT

120-2.1 SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) PREPARATION & CSPP & SPCD MONITORING/IMPLEMENTATION. Payment for the preparation of the SPCD documents and monitoring/ implementation of the CSPP & SPCD plans will be made on a lump sum basis. The lump sum shall include all items required to satisfy this Specification as outlined herein and in the Contract Documents. The Contractor will be required to submit a Schedule of Values breakdown for the SPCD preparation and CSPP monitoring items and provide a copy of this Schedule prior to the Contract execution.

120-2.1A SPCD PREPARATION & OF CSPP & SPCD MONITORING/IMPLEMENTATION MEASUREMENT LIMIT. This item shall be limited to **one percent (1%)** of the total project cost (inclusive of all costs).

120-2.2 WORK ZONE DELINEATION FENCE. Payment for work zone delineation fence will be measured on a linear foot basis along the fence alignment. The measurement will not include any slack length of the fence. The linear foot measurement shall include all materials required to satisfy this Specification for delineating the work zone as shown on the Plans or as directed by the RPR.

120-2.3 MAINTENANCE AND PROTECTION OF TRAFFIC. Payment for maintenance and protection of traffic will be made on a lump sum basis. The lump sum shall include all items required to satisfy this Specification as outlined herein and as directed by the RPR. The Contractor will be required to submit a Schedule of Values for the Maintenance and Protection of Traffic items and provide a copy of this Schedule prior to any Contract execution.

120-2.3A MAINTENANCE AND PROTECTION OF TRAFFIC MEASUREMENT LIMIT. Mobilization shall be limited to **five percent (5%)** of the total project cost (inclusive of all costs).

BASIS OF PAYMENT

120-3.1 PREPARATION OF A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) & IMPLEMENTATION OF CSPP & SPCD. The payment will be a lump sum price for the preparation of the SPCD and monitoring/implementation of the CSPP & SPCD. The payment shall include all equipment, materials, and labor necessary to adequately prepare the SPCD and monitor the CSPP & SPCD. Progress payments will be made for this item in proportion to the total amount of contract work completed, less any deductions for unsatisfactory monitoring/implementation of the CSPP & SPCD, based on the partial payment schedule as outlined herein.

In the event the contract completion date is extended, no additional payment will be made for the monitoring/implementation of the CSPP & SPCD.

Partial payments allowed for item will be as follows:

- a. With first pay request, 50% of the lump sum.

- b. When 50% or more of the original contract is earned, an additional 25%.
- c. When 90% or more of the original contract is earned, an additional 15%.
- d. After Final Inspection, staging area clean-up and delivery of all project closeout materials, the final 10% may be paid.

120-3.2 WORK ZONE DELINEATION FENCE. Payment for work zone delineation fence will be made at the contract unit price per linear foot. The price shall include all equipment, materials, labor and any incidental items necessary to complete the item.

120-3.3 MAINTENANCE AND PROTECTION OF TRAFFIC. The payment will be a lump sum price for Maintenance and Protection of Traffic. The payment shall include all equipment, materials, and labor necessary to adequately and safely maintain and protect traffic. Progress payments will be made for this item in proportion to the total amount of contract work completed, less any deductions for unsatisfactory maintenance and protection of traffic or safety devices, based on the partial payment schedule outlined herein..

In the event the contract completion date is extended, no additional payment will be made for maintenance and protection of traffic.

No payment will be made under Maintenance and Protection of Traffic for each calendar day during which there are substantial deficiencies in compliance with the Specification requirements of any subsection of this Section as determined by the RPR. The amount of such calendar days for non-payment will be determined by dividing the lump sum amount bid for Maintenance and Protection of Traffic by the number of calendar days between the Notice to Proceed Date that the Contractor commences work and the date of completion as designated in the Contract, without regard to any extension of time.

If the Contractor fails to maintain and protect traffic adequately and safely for a period of four (4) hours, the Owner shall correct the adverse conditions by any means it deems appropriate and shall deduct the cost of the corrective work from any monies due the Contractor. The cost of this work shall be in addition to the liquidated damages and non-payment for maintenance and protection of traffic listed.

However, where major non-conformance with the requirement of this Specification is noted by the RPR and prompt Contractor compliance is deemed not to be obtainable, all Contract work may be stopped by direct order of the RPR, regardless of whether corrections are made by the Owner as stated in the paragraph above.

Partial payments will be allowed as follows:

- a. With first pay request, 25% of lump sum.
- b. When 25% or more of the original contract is earned, an additional 25%.
- c. When 50% or more of the original contract is earned, an additional 40%.
- d. After Final Inspection, staging area clean-up and delivery of all project closeout materials, the final 10% may be paid.

Payment will be made under:

Item M-120-1	SPCD Preparation and CSPP & SPCD Monitoring/ Implementation (1% Maximum)	Lump Sum
Item M-120-2	Work Zone Delineation Fence	per Linear Foot
Item M-120-3	Maintenance and Protection of Traffic (5% Maximum)	Lump Sum

END OF SECTION M-120

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ITEM M-200 DRILLED SHAFT CONCRETE FOUNDATION

GENERAL

200-1.1 SUMMARY. This Section includes requirements for final design calculations and sizing, material supply and installation of the drilled shaft concrete caisson foundations for the ground-mounted sound barriers, complete with any attachments as shown, or as specified, on drawings and as required for complete and proper installation of the foundation and sound wall.

Furnish drilled shaft concrete caisson foundations to include the following:

- A. Excavation (Drilling)
- B. Cast-In-Place Concrete
- C. Steel Reinforcement
- D. Anchor Bolts
- E. Withdrawal of Temporary Steel Casing

200-1.2 RELATED REQUIREMENTS

Section M-300 – Sound Wall Barrier

Division 2 - Geotechnical Report

200-1.3 ADMINISTRATIVE REQUIREMENTS

- A. **Coordination:** Coordinate the Work of this Section with any foundation design sizing requirements and the installation of base plate as noted in Section M-300 Sound Wall Barrier and shown on the details in the drawings.
 - a. Sequence work so that installation of drilled shaft concrete caisson foundations coincides with installation of all other work and substrate without causing delay to the Work.
- B. **Pre-Construction Conference:** Arrange a site meeting attended by the Contractor, the Subcontractor, the Engineer/Resident Project Representative (RPR), materials supplier(s), and other relevant personnel prior to commencement of work for this Section; as indicated in Contract Documents.
 - a. Review methods and procedures related to installation;
 - b. Examine substrate conditions for compliance with installation requirements;
 - c. Review temporary protection measures required during and after installation.

200-1.4 SUBMITTALS

- A. Provide all submittals for review and approval with all requested information in accordance with Contract Document Submittals Procedures.
- B. **Action Submittals:** Provide the following submittals before starting any work of this Section:
 - a. Delegated Design Submittals: Furnish complete final design calculations and details, fabrication and erection shop drawings and site review for the foundations, bearing the seal of a Professional Engineer registered in the State of the Work, in accordance with applicable Design Code and Contract Documents.

- b. Product Data: Submit material data sheets from the final design materials.
- c. Shop Drawings:
 - i. Submit shop drawings of drilled shaft concrete foundation system components, all materials, layout details, sound wall base plate attachment and anchorage details, and accessories to the RPR for review.
- d. Samples: Not required.

C. **Information Submittals:** *NOT APPLICABLE TO THIS INSTALLATION*

D. **Sustainable Design Submittals:** *NOT APPLICABLE TO THIS INSTALLATION*

200-1.5 CLOSEOUT SUBMITTALS

- A. **Record Document Data:** Submit record documents for the installation of the materials, final installed dimensions, and any procedures for the installation, including the name of original installer and contact information, in accordance with Contract Document requirements.
 - a. Provide specific warning of any maintenance practice that may damage or disfigure the finished Work.

200-1.6 QUALITY ASSURANCE

- A. **Qualifications:** Provide proof of qualifications when requested by the RPR:
 - a. Manufacturer / Supplier of Materials: Obtain materials installation documentation from source of the materials (i.e., reinforcing steel supplier, concrete supplier, etc.) to provide products for the final foundation product.
 - b. Installers:
 - i. Execute Work of this Section using qualified personnel skilled in installation of work of this Section, having a minimum of three (3) years proven experience of installations similar in material, design, and extent to that indicated for this Project.
 - ii. Conform to all local and provincial licensing and bonding requirements.
- B. **Construction Standards.** Drilled shaft foundations shall be constructed in accordance with the applicable requirements of ACI 336.1 and ADSC's "*Standards and Specifications for the Foundation Drilling Industry*".
- C. **Concrete Sampling and Testing.** Concrete for each day's placement will be accepted on the basis of the compressive strength specified in paragraph 200-2.2. The Contractor, or the independent QA testing agency, will sample the concrete in accordance with ASTM C172; test the slump in accordance with ASTM C143; test air content in accordance with ASTM C231; make and cure compressive strength specimens in accordance with ASTM C31; and test in accordance with ASTM C39. The Contractor shall use an independent QA testing agency which will meet the requirements of ASTM C1077.

The Contractor shall provide adequate facilities for the initial curing of cylinders.
- D. **Defective work.** Any defective work that cannot be satisfactorily repaired as determined by the RPR shall be removed and replaced at the Contractor's expense. Defective work includes, but is not limited to, uneven dimensions, honeycombing and other voids on the surface or edges of the concrete.

200-1.7 DELIVERY, STORAGE AND HANDLING

- A. **Delivery:** Deliver materials in the materials supplier's packaging with identification labels intact, as applicable.
 - a. At the time of delivery, visually inspect all materials for damage. Note any damaged materials and immediately report to the shipping company and the material supplier.
 - b. Coordinate delivery and construction schedule to minimize interference with normal use of areas adjacent to the project.
- B. **Storage:** Store any materials raised off the ground and cover with a weatherproof sheeting or tarpaulin as to minimize damage during storage.
- C. **Handling:**
 - a. Foundation materials shall be handled in accordance with sensible material handling practices and in such a way as to minimize damage.

200-1.9 SITE CONDITIONS

- A. **Site Measurements:** Verify dimensions by field measurements before installation of the foundations and indicate measurements on Shop Drawings where drilled shaft concrete foundations are indicated to be installed.
- B. **Ambient Conditions:** Install materials outlined in this Section, which are required to be completed with the proper curing time, prior to any of the associated work is to be performed and described by other Sections.

200-1.10 WARRANTY

- A. Warrant the work of this section in accordance with manufacturer's warranty for a period of one (1) year from final acceptance date of the installation for the entire sound wall and foundation system and agree to repair or replace faulty materials which becomes evident during the warranty period without cost to the Owner and at the Owner's convenience.
 - a. Warranty includes but is not limited to the following:
 - i. Drilled Shaft Concrete Foundation, including anchoring and base plate.

PRODUCTS

200-2.1 MATERIALS

- A. **General.** Only approved materials, conforming to the requirements of these specifications, shall be used in the work. Materials may be subject to inspection and tests at any time during their preparation or use. The source of all materials shall be approved by the RPR before delivery or use in the work. Representative preliminary samples of the materials shall be submitted by the Contractor, when required, for examination and test. Materials shall be stored and handled to ensure preservation of their quality and fitness for use and shall be located to facilitate prompt inspection. All equipment for handling and transporting materials and concrete must be clean before any material or concrete is placed in them.

The use of pit-run aggregates shall not be permitted unless the pit-run aggregate has been screened and washed, and all fine and coarse aggregates stored separately and kept clean. The mixing of different aggregates from different sources in one storage stockpile or alternating batches of different aggregates shall not be permitted.

- a. **Reactivity.** Fine aggregate and coarse aggregates to be used in all concrete shall have been tested separately within six months of the project in accordance with ASTM C1260. Test results shall be submitted to the RPR. The aggregate shall be considered innocuous if the expansion of test specimens, tested in accordance with ASTM C1260, does not exceed 0.08% at 14 days (16 days from casting). If the expansion either or both test specimen is greater than 0.08% at 14 days, but less than 0.20%, a minimum of 25% of Type F fly ash, or between 40% and 55% of slag cement shall be used in the concrete mix.

If the expansion is greater than 0.20%, the aggregates shall not be used, and test results for other aggregates must be submitted for evaluation; or aggregates that meet ASTM C1260 and C1567 alkali-aggregate reactivity test requirements may be utilized.

- b. As noted above for the above noted reactivity tests, the tests must be representative of aggregate sources which will be providing material for production use. ASTM C1260 and ASTM C1567 tests may be run concurrently, and the following shall apply:
 - i. Coarse aggregate and fine aggregate shall be tested separately in accordance with ASTM C1260, however, the length of test shall be extended to 28 days (30 days from casting). Tests must have been completed within 6 months of the date of the concrete mix submittal.
 - ii. The combined coarse and fine aggregate shall be tested in accordance with ASTM C1567, modified for combined aggregates, using the proposed mixture design proportions of aggregates, cementitious materials, and/or specific reactivity reducing chemicals. If the expansion does not exceed 0.10% at 28 days, the proposed combined materials will be accepted. If the expansion is greater than 0.10% at 28 days, the aggregates will not be accepted unless adjustments to the combined materials mixture can reduce the expansion to less than 0.10% at 28 days, or new aggregates shall be evaluated and tested.
 - iii. If lithium nitrate is proposed for use with or without supplementary cementitious materials, the aggregates shall be tested in accordance with Corps of Engineers (COE) Concrete Research Division (CRD) C662 in lieu of ASTM C1567. If lithium nitrate admixture is used, it shall be nominal 30% \pm 0.5% weight lithium nitrate in water. If the expansion does not exceed 0.10% at 28 days, the proposed combined materials will be accepted. If the expansion is greater than 0.10% at 28 days, the aggregates will not be accepted unless adjustments to the combined materials mixture can reduce the expansion to less than 0.10% at 28 days, or new aggregates shall be evaluated and tested.

B. Portland Cement Concrete: Supplied with the following material requirements:

- a. **Coarse Aggregates.** The coarse aggregate for concrete shall meet the requirements of ASTM C33 and the requirements of Table 4, Class Designation 5S; and the grading requirements shown below, as required for the project.

Coarse Aggregate Grading Requirements

Maximum Aggregate Size	ASTM C33, Table 3 Grading Requirements (Size No.)
1 1/2 inch (37.5 mm)	467 or 4 and 67
1 inch (25 mm)	57
3/4 inch (19 mm)	67
1/2 inch (12.5 mm)	7

- b. **Fine Aggregates.** The fine aggregate for concrete shall meet all fine aggregate requirements of ASTM C33.
- c. **Cement.** Cement shall conform to the requirements of ASTM C150 Type III.
- d. **Cementitious Materials.**
 - i. **Fly ash.** Fly ash shall meet the requirements of ASTM C618, with the exception of loss of ignition, where the maximum shall be less than 6%. Fly ash shall have a Calcium Oxide (CaO) content of less than 15% and a total available alkali content less than 3% per ASTM C311. Fly ash produced in furnace operations using liming materials or soda ash (sodium carbonate) as an additive shall not be acceptable. The Contractor shall furnish the previous three most recent, consecutive ASTM C618 reports for each source of fly ash proposed in the concrete mix and shall furnish each additional report as they become available during the project. The reports can be used for acceptance or the material may be tested independently by the RPR.
 - ii. **Slag cement (ground granulated blast furnace (GGBF)).** Slag cement shall conform to ASTM C989, Grade 100 or Grade 120. Slag cement shall be used only at a rate between 25% and 55% of the total cementitious material by mass.
- e. **Water.** Water used in mixing or curing shall be from potable water sources. Other sources shall be tested in accordance with ASTM C1602 prior to use.
- f. **Admixtures.** The Contractor shall submit certificates indicating that the material to be furnished meets all of the requirements indicated below. In addition, the RPR may require the Contractor to submit complete test data from an approved laboratory showing that the material to be furnished meets all of the requirements of the cited specifications. Subsequent tests may be made of samples taken by the RPR from the supply of the material being furnished or proposed for use on the work to determine whether the admixture is uniform in quality with that approved.
 - i. **Air-entraining admixtures.** Air-entraining admixtures shall meet the requirements of ASTM C260 and shall consistently entrain the air content in the specified ranges under field conditions. The air-entrainment agent and any water reducer admixture shall be compatible.
 - ii. **Water-reducing admixtures.** Water-reducing admixture shall meet the requirements of ASTM C494, Type A, B, or D. ASTM C494, Type F and G high range water reducing admixtures and ASTM C1017 flowable admixtures shall not be used.
 - iii. **Other chemical admixtures.** The use of set retarding and set-accelerating admixtures shall be approved by the RPR. Retarding shall meet the requirements of ASTM C494, Type A, B, or D and set-accelerating shall meet

the requirements of ASTM C494, Type C. Calcium chloride and admixtures containing calcium chloride shall not be used.

C. Steel Reinforcing Materials:

- a. All reinforcing steel shall conform to ASTM A615 Grade 60 (AASHTO M31)
- b. All welded wire fabric shall conform to ASTM A1064 Grade 65 (AASHTO M336)

D. Anchor Rods and Bolts: All materials shall be galvanized.

- a. Materials: Conforms to ASTM A449 or ASTM F1554.
- b. Heavy Hex Nuts: Conforms to ASTM A563.
- c. Hardened Washers: Conforms to ASTM F436.

E. Materials for curing concrete. Curing materials shall conform to ASTM C309, White-pigmented Liquid Membrane-Forming Compound, Type 2, Class B.

200-2.2 CONCRETE MIXTURE

- A. **Concrete Mixture.** The concrete shall develop a compressive strength of **4000 psi (28 MPa) in 28 days** as determined by test cylinders made in accordance with ASTM C31 and tested in accordance with ASTM C39. The concrete shall contain not less than 470 pounds of cementitious material per cubic yard (280 kg per cubic meter). The water cementitious ratio shall not exceed 0.45 by weight. The air content of the concrete shall be 5% +/- 1.2% as determined by ASTM C231 and shall have a slump of not more than 4 inches (100 mm) as determined by ASTM C143.

200-2.3 COMPONENT DESIGN REQUIREMENTS

- A. **Structural Design Requirements:** Design all foundation components for foundation size (diameter and depth), reinforcing, and anchor bolts (sizing, depth, and layout placement) according to **AASHTO LRFD Bridge Design Specifications, 9th Edition (or current)** and **Guide Specification for Structural Design of Sound Barriers (current edition)**, as well as the following design and loading criteria:

a. Design Loading

- i. Dead Load: Coordinate with the Sound Wall manufacturer
- ii. Wind Pressure Basic Wind Speed = 140 mph

b. Design Dimensions (from Sound Wall Manufacturer)

- i. Max. Vertical Sound Wall Height = 20 feet with 3-ft piece angled @ 45° to airfield
- ii. Max. Foundation Spacing = 10 feet
- iii. Drilled shaft foundations consist of monolithically cast-in-place concrete piles
- iv. Shaft foundations shall be straight cylindrical shaft type.

- c. **Anchor Bolt Coordination.** Coordinate with the sound wall manufacturer for the size, depth, and placement of the anchor bolts in the drilled shaft concrete foundation.

- B. Make provisions to accommodate thermal and structural movement, including sound wall structural framing deflection and creep, in component parts of system and fastenings without detrimental effects.

EXECUTION

200-3.1 General. The Contractor shall furnish all labor, materials, and services necessary for, and incidental to, the completion of all work as shown on the drawings and specified here. All machinery and equipment used by the Contractor on the work, shall be of sufficient size to meet the requirements of the work. All work shall be subject to the inspection and approval of the Engineer.

200-3.2 Excavation.

A. General

- a. Excavate for shaft foundations by drilling or by other methods, as approved by the Engineer, to advance the excavation to the required bottom elevation. Avoid over excavation. Excavation shall be performed through whatever materials are encountered to the dimensions, depths, and tolerances indicated. Bottoms of excavations shall be level and flat.
- b. When required by the Engineer, drill and core an exploratory hole, approximately 3 to 4 inches in diameter, to a depth of 15 feet below the excavation invert and backfill with grout.
- c. Protect excavated walls with temporary steel casing as necessary to prevent cave-ins, displacement of the surrounding earth, water incursion, injury to personnel, and damage from construction operations. Maintain indicated neat lines of excavation for cased areas.
- d. Make bottom surfaces level within the tolerances specified herein. Remove loose material, debris, and muck with cleaning buckets.

B. Ground Water Control

- a. Notify the Engineer immediately when ground water is encountered.
- b. Suitable steel casings shall be furnished and placed when necessary to control water. Drilling mud or chemical stabilizers shall not be used unless permitted by the Engineer.

- C. Inspection: After completion of excavation and prior to placement of reinforcing steel, the condition of the excavation will be inspected by the Engineer. Use clean-out buckets or air-lifts to remove any sloughage or other loose material from the shaft prior to placing reinforcing steel and concrete. An accumulation of soil or rock in the bottom of the excavation will not be permitted.

200-3.3 Forms/Temporary Casing. Concrete shall not be placed until all the forms and/or temporary casing, if used on the details, and reinforcements have been inspected and approved by the RPR. Forms and/or temporary casing shall be of suitable material and shall be of the type, size, shape, quality, and strength to build the structure as shown on the plans. The forms and/or temporary casing shall be true to line and grade. The surfaces of forms and/or temporary casings shall be smooth and free from irregularities, dents, sags, and holes. The Contractor shall be responsible for their adequacy.

For any forms used, the internal form ties shall be arranged so no metal will show in the concrete surface or discolor the surface when exposed to weathering when the forms are removed. Any forms shall be wetted with water or with a non-staining mineral oil, which shall be applied immediately before the concrete is placed. Forms and/or temporary casing shall be constructed so they can be removed without injuring the concrete or concrete surface.

200-3.4 Mixing. Concrete may be mixed at the construction site, at a central point, or wholly or in part in truck mixers. The concrete shall be mixed and delivered in accordance with the requirements of ASTM C94 or ASTM C685.

The concrete shall be mixed only in quantities required for immediate use. Concrete shall not be mixed while the air temperature is below 40°F (4°C) without the RPRs approval. If approval is granted for mixing under such conditions, aggregates, or water, or both, shall be heated and the concrete shall be placed at a temperature not less than 50°F (10°C) nor more than 100°F (38°C). The Contractor shall be held responsible for any defective work, resulting from freezing or injury in any manner during placing and curing, and shall replace such work at his expense.

Retempering of concrete by adding water or any other material is not permitted.

The rate of delivery of concrete to the job shall be sufficient to allow uninterrupted placement of the concrete.

200-3.5 Placing reinforcement. Where it is not practicable to deliver the cage assembly to the jobsite as a complete unit ready for installation, make the remaining connections or splices, as indicated on the approved Submittal, at-grade prior to lowering the assembly into the hole.

Lower reinforcing steel into the hole in such a manner as to prevent damage to the walls, and place and tie or clip symmetrically about the axis of the shaft. Use centering devices, securely attached to the cage, to clear the shaft walls and to maintain the cage in place throughout the concrete placement.

All reinforcement shall be accurately placed, as shown on the plans and/or the final design details and shall be firmly held in position during concrete placement. Bars shall be fastened together at intersections as required. The reinforcement shall be supported by approved metal chairs, as required by the Submittal. Shop drawings, lists, and bending details shall be supplied by the Contractor when required. Concrete shall not be placed until all the forms/temporary casing, if used on the details, and reinforcement placement has been inspected and approved by the RPR.

200-3.6 Embedded items. Before placing concrete, all embedded items shall be firmly and securely fastened in place as indicated. All embedded items shall be clean and free from coating, rust, scale, oil, or any foreign matter. The concrete shall be spaded and consolidated around and against embedded items. The embedding of wood shall not be allowed.

200-3.7 Concrete Consistency. The Contractor shall monitor the consistency of the concrete delivered to the project site; collect each batch ticket; check temperature; and perform slump tests on each truck at the project site in accordance with ASTM C143.

200-3.8 Placing concrete. All concrete shall be placed during daylight hours, unless otherwise approved. The concrete shall not be placed until the depth and condition of foundations, the adequacy of forms and falsework, and the placing of the steel reinforcing have been approved by the RPR. Concrete shall be placed as soon as practical after mixing, but in no case later than one (1) hour after water has been added to the mix. The method and manner of placing shall avoid segregation and displacement of the reinforcement. Troughs, pipes, and chutes shall be used as an aid in placing concrete when necessary. The concrete shall not be dropped from a height of more than 5 feet (1.5 m). Concrete shall be deposited as nearly as practical in its final position to avoid segregation due to rehandling or flowing. Do not subject concrete to procedures which cause segregation. Concrete shall be placed on clean, damp surfaces, free from running water, or on a properly consolidated soil foundation.

200-3.9 Vibration. Vibration shall follow the guidelines in American Concrete Institute (ACI) Committee 309R, Guide for Consolidation of Concrete.

200-3.10 Joints. Joints, if used, shall be constructed as indicated on the plans.

200-3.11 Withdrawal of Temporary Steel Casing. Where temporary steel casings are used to support the excavation walls, withdraw the casing as the concrete is being placed, unless otherwise indicated or unless the Engineer requires that the casing be permanently grouted in place. Remove the steel casing in such a manner so that the lower edge of the steel liner will always remain a minimum of 5 feet below the surface of the concrete as placed to prevent water from entering the casing from the bottom. Vibrate concrete during withdrawal of the steel casing.

200-3.12 Field Quality Control.

- A. Inspections and Tests: The Contractor shall perform inspections and tests of concrete as specified in above under Section 200-1.6 Quality Assurance and Section 200-2.2 Concrete Mixture.
- B. Records and Reports: Keep a record, on an approved form, for each drilled shaft foundation installed. Record on the form the location, dimensions, elevations of top and bottom, depth of stratum penetration, condition of bottom of excavation, concrete placement data, a continuous record of actual concrete volume placed versus theoretical volume, and any other data called for on the approved report form or pertinent to the foundation.

200-3.13 Finishing. All exposed concrete surfaces shall be true, smooth, and free from open or rough areas, depressions, or projections. All concrete horizontal plane surfaces shall be brought flush to the proper elevation with the finished top surface struck-off with a straightedge and floated.

200-3.14 Curing and protection. All concrete shall be properly cured in accordance with the recommendations in American Concrete Institute (ACI) 308R, Guide to External Curing of Concrete. The concrete shall be protected from damage until project acceptance.

200-3.15 Cold weather placing. When concrete is placed at temperatures below 40°F (4°C), follow the cold weather concreting recommendations found in ACI 306R, Cold Weather Concreting.

200-3.16 Hot weather placing. When concrete is placed in hot weather greater than 85°F (30 °C), follow the hot weather concreting recommendations found in ACI 305R, Hot Weather Concreting.

METHOD OF MEASUREMENT

200-4.1 Drilled Shaft Concrete Foundation shall be measured by the number of each complete in place and accepted by the RPR.

BASIS OF PAYMENT

200-5.1 Payment for Drilled Shaft Concrete Foundation shall be made at the contract price by the number of each completed in place and accepted by the RPR. This price shall be full compensation for the final design and submittals for the drilled shafts; furnishing all materials including reinforcement and embedded items and for all preparation, delivery, installation, and curing of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item M-200-1 Drilled Shaft Concrete Foundation per each

REFERENCES

American Association of State Highway and Transportation Officials (AASHTO):

- AASHTO LRFD Bridge Design Specifications
AASHTO Guide Specification for Structural Design of Sound Barriers

ASTM International (ASTM)

- ASTM A184 Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement
ASTM A615 Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
ASTM A704 Standard Specification for Welded Steel Plain Bar or Rod Mats for Concrete Reinforcement
ASTM A706 Standard Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement
ASTM A775 Standard Specification for Epoxy-Coated Steel Reinforcing Bars
ASTM A884 Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement
ASTM A934 Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars
ASTM A1064 Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete
ASTM C31 Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C33 Standard Specification for Concrete Aggregates
ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
ASTM C94 Standard Specification for Ready-Mixed Concrete
ASTM C136 Standard Test Method for Sieve or Screen Analysis of Fine and Coarse Aggregates
ASTM C114 Standard Test Methods for Chemical Analysis of Hydraulic Cement
ASTM C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM C143 Standard Test Method for Slump of Hydraulic-Cement Concrete
ASTM C150 Standard Specification for Portland Cement
ASTM C171 Standard Specification for Sheet Materials for Curing Concrete
ASTM C172 Standard Practice for Sampling Freshly Mixed Concrete
ASTM C231 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C260 Standard Specification for Air-Entraining Admixtures for Concrete
ASTM C309 Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete

ASTM C311	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete
ASTM C494	Standard Specification for Chemical Admixtures for Concrete
ASTM C618	Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
ASTM C666	Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing
ASTM C685	Standard Specification for Concrete Made by Volumetric Batching and Continuous Mixing
ASTM C989	Standard Specification for Slag Cement for Use in Concrete and Mortars
ASTM C1017	Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete
ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM C1157	Standard Performance Specification for Hydraulic Cement
ASTM C1260	Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)
ASTM C1365	Standard Test Method for Determination of the Proportion of Phases in Portland Cement and Portland-Cement Clinker Using X-Ray Powder Diffraction Analysis
ASTM C1602	Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete
ASTM D1143	Method of Testing Piles Under Static Axial Compressive Load
ASTM D3689	Method of Testing Individual Piles Under Static Axial Tensile Load
ASTM D3966	Method of Testing Piles Under Lateral Loads

American Concrete Institute (ACI)

ACI 305R	Hot Weather Concreting
ACI 306R	Cold Weather Concreting
ACI 308R	Guide to External Curing of Concrete
ACI 309R	Guide for Consolidation of Concrete
ACI 336.1	Reference Specification for the Construction of Drilled Piers

Association of Drilled Shaft Contractors (ADSC)

Standards and Specifications for the Foundation Drilling Industry

END OF ITEM M-200

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ITEM M-300 SOUND WALL BARRIER

GENERAL

300-1.1 SUMMARY. This Section includes requirements for supply and installation of ground sound barriers, complete with attachment brackets as shown on drawings, as specified and as required for complete and proper installation.

Furnish sound barriers to include the following:

- A. Structural Steel Framing
- B. Sound Barrier Wall Components complete with Sound Absorptive Material

300-1.2 RELATED REQUIREMENTS

Section M-200 – Drilled Shaft Caisson Foundation

300-1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate the Work of this Section with the installation of base plate.
 - a. Sequence work so that installation of sound barriers coincides with installation of all other work and substrate without causing delay to the Work.
- B. Pre-Construction Conference: Arrange a site meeting attended by the Contractor, the Subcontractor, the Consultant, materials supplier(s), and other relevant personnel prior to commencement of work for this Section; as indicated in Contract Documents.
 - a. Review methods and procedures related to installation, including manufacturer's written instructions;
 - b. Examine substrate conditions for compliance with manufacturer's installation requirements;
 - c. Review temporary protection measures required during and after installation.

300-1.4 SUBMITTALS

- A. Provide requested information in accordance with Contract Document Submittals Procedures.
- B. Action Submittals: Provide the following submittals before starting any work of this Section:
 - a. Product Data: Submit manufacturer's data sheets covering the care and recommended maintenance procedures for incorporation into maintenance manuals.
 - b. Shop Drawings:
 - i. Submit shop drawings of sound barrier system components, substrate materials, layout, corner and edge details, base plate anchorage details, foundation details and accessories to the Consultant for review.
 - c. Delegated Design Submittals: Furnish complete design calculations and details, fabrication and erection shop drawings and site review for sound barriers, bearing the seal of a Professional Engineer registered in the State of the Work, in accordance with applicable Design Code and Contract Documents.

- d. Samples: Submit for approval 12" long sample lengths of each sound barrier wall component, complete with sound absorptive material, for verification of finish, color and texture, prior to fabrication.
- C. Information Submittals:
- a. Acoustical Requirements: Where applicable, submit test reports to confirm that the sound barriers have achieved the specified Sound Transmission Class (STC) and Noise Reduction Coefficient (NRC) performance characteristics outlined in this Section.
- D. Sustainable Design Submittals: *NOT APPLICABLE TO THIS INSTALLATION*

300-1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit manufacturer's written instructions for cleaning solutions, materials and procedures, include name of original installer and contact information in accordance with Contract Document requirements.
- a. Provide specific warning of any maintenance practice or materials that may damage or disfigure the finished Work.

300-1.6 QUALITY ASSURANCE

- A. Qualifications: Provide proof of qualifications when requested by the Consultant:
- a. Manufacturer / Supplier: Obtain materials from one source with resources to provide products from the same production run for each contiguous area of consistent quality in appearance and physical properties.
 - i. Sound Barrier Panel Manufacturer: Minimum of ten (10) years of experience in the manufacturing of sound barrier products.
 - ii. Design of Sound Barriers: Performed by a professional engineer licensed in the jurisdiction of the project and in accordance with local code requirements.
 - b. Installers:
 - i. Execute Work of this Section using qualified personnel skilled in installation of work of this Section, having a minimum of three (3) years proven experience of installations similar in material, design, and extent to that indicated for this Project.
 - ii. Conform to all local and provincial licensing and bonding requirements.
 - iii. Certified by the sound barrier manufacturer to have completed installation training for products listed in this Section.

300-1.7 MOCK-UPS

- A. Mock-ups: Construct mock-ups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution in accordance with the Contract Documents for mock-ups and as follows:
- a. Build mock-up of typical wall section, incorporating the panel and finish, support framing and anchoring.
- B. Notify Consultant a minimum seven (7) days prior to mock-up construction.
- C. Review and acceptance of mock-ups does not constitute approval of deviations from the

Contract Documents contained in mock-ups unless Consultant specifically notes such deviations in writing.

- D. Once reviewed by Consultant, acceptable mock-up can form a permanent part of the Work, and will form the basis for acceptance for the remainder of the project.
- E. Remove and replace materials found not acceptable at no cost to Owner or Consultant.

300-1.8 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers packaging with identification labels intact.
 - a. At the time of delivery, visually inspect all materials for damage. Note any damaged boxes, crates, or louver sections on the receiving ticket and immediately report to the shipping company and the material manufacturer.
 - b. Coordinate delivery and pier/anchor construction schedule to minimize interference with normal use of buildings adjacent to the project.
- B. Storage: Store sound barrier materials raised off the ground and cover with a weather proof sheeting or tarpaulin.
- C. Handling:
 - a. Materials shall be handled in accordance with sensible material handling practices and in such a way as to minimize bending and panel damage.
 - b. Hoist panels as recommended by sound barrier manufacturer.

300-1.9 SITE CONDITIONS

- A. Site Measurements: Verify dimensions by field measurements before fabrication and indicate measurements on Shop Drawings where sound barrier panels are indicated to around mechanical units and other construction.
- B. Establish dimensions and proceed with fabricating sound barrier panels where field measurements cannot be made without delaying the work; allow for site trimming and fitting where required.
- C. Ambient Conditions: Install materials outlined in this Section after completion of work by other Sections is complete, and all penetrations are watertight; to provide adequate dry, clean, level, and plumb surfaces for installation.

300-1.10 WARRANTY

- A. Warrant the work of this section in accordance with manufacturer's warranty for a period of one (1) year from date of delivery of material and agree to repair or replace faulty materials which becomes evident during the warranty period without cost to the Owner and at the Owner's convenience.
 - a. Warranty includes but is not limited to the following:
 - i. Panel Finish; peeling or fading of the exterior finish on sound barrier panels.
 - ii. Panel Components; failure of PVC resin resulting in cracking.
 - iii. Sound Absorptive Material; deterioration of acoustical mineral wool.

PRODUCTS

300-2.1 MANUFACTURER

- A. Materials Manufacturer: Sound barriers and accessories specified herein shall be manufactured by :

Atlantic Industries Limited (AIL) Sound Walls
640 Waydom Drive, Ayr, Ontario, Canada, N0B 1E0
Phone: (866) 231-7867
Email: info@ailsoundwalls.ca
Website: www.ailsoundwalls.com

300-2.2 MATERIALS

- A. Sound Barrier Panel Extrusions: Polyvinyl Chloride (PVC) homopolymer, manufactured in a co-extruded manner using recycled virgin resins for the substrate and pure virgin resins for the cap stock.
- a. Cap stock (exterior layer): Contains UV TI02 to protect colors from fading due to ultra-violet rays from the sun.
- B. Acoustic Mineral Wool Insulation:
- a. Unfaced, preformed mineral slag insulation in accordance with CAN/ULC S702-09; rated non-combustible in accordance with CAN/ULC S114-05 and having a flame spread rating of 5 or less in accordance with CAN/ULC S102 or ASTM E84 (UL 723).
 - b. Square edges; thickness and height as required to fill sound barrier panels.
 - c. Low water absorption, minimizing growth of fungi or mildew.
- C. Structural Steel Sections and Steel Plate:
- a. New stock (not weathered or rusted); conform to ASTM A992 Grade 50, hot rolled wide flange structural sections in accordance with shapes, sizes, details and method of connection as shown on drawings.
 - b. All steel components to be hot dipped galvanized after fabrication in accordance with ASTM A123.
- D. Sheet Steel (Structural Quality): Conforms to ASTM A1011.
- E. Fasteners: All fasteners shall be galvanized.
- a. Anchor Rods and Bolts: Conforms to ASTM A449 or ASTM F1554.
 - b. Heavy Hex Nuts: Conforms to ASTM A563.
 - c. Hardened Washers: Conforms to ASTM F436.
- F. Welding Materials: American Welding Society AWS D1.1.
- G. Zinc Rich Paint For Touch-up of Galvanized Metals: Ready mixed, zinc-rich primer conforming to ASTM A123.

300-2.3 COMPONENTS

- A. Structural Requirement: Design components to wind maximum positive and negative pressures according to **AASHTO**.

- B. Make provisions to accommodate thermal and structural movement, including building structural framing deflection and creep, in component parts of system and fastenings without detrimental effects.
- C. Weather Testing: Weathered composite test of five (5) specimens shall have an average minimum Modulus of Rupture of 10,000 psi when tested in accordance with ASTM D790 Procedure 1, Type I specimens and artificially weathered for 2000 hours in accordance with ASTM D2565 Cycle No. 1. Weathered composite test of five (5) specimens shall have an average minimum Modulus of Elasticity of 340,000 psi when tested in accordance with ASTM D790 Procedure 1, Type I specimens and artificially weathered for 2000 hours in accordance with ASTM D2565 Cycle No. 1.
- D. The AIL Sound Wall's "Silent Protector" - Absorptive Sound Barrier Panel Characteristics is to be used with the following requirements:
 - a. Absorptive on one side of the panel with a perforated routing pattern.
 - b. Acoustical mineral wool insulation inserted in panel cavity.
 - c. Sound Transmission Class (STC) rating greater than or equal to 32, as per ASTM E90-09 (2016).
 - d. Noise Reduction Coefficient (NRC) equal to 0.95, as per ASTM C423-17.
 - e. Dimensions:
 - i. Width: 2.7"
 - ii. Height: 5.96"; \pm (0.10")
 - iii. Length: Varies – see manufacturer for recommended design length
 - f. Finish:
 - i. Texture: Smooth on both sides.
 - ii. Color: Gray as selected by the Owner from the manufacturer's standard color line.
 - g. Basis of Design Model: "Silent Protector" by AIL Sound Walls.

300-2.4 ACCESSORIES

- A. Steel Beam Covers:
 - a. Extrusions: Polyvinyl Chloride (PVC) homopolymer, identical to panel construction, extruded to snap over face of structural steel beam.
 - b. Finish: To match adjacent panel finish.
 - c. Color: To match adjacent panel color.

EXECUTION

300-3.1 EXAMINATION

- A. Verification of Conditions:
 - a. Examine areas to receive work and surrounding adjacent surfaces for conditions affecting installation. Coordinate with related sections providing supporting structure to ensure proper dimensions are maintained.

- b. Verify dimensions of supporting structure by accurate field measurements so that work will be accurately designed, fabricated and fitted to the structure.
- c. Verify base plate seat has been installed and elevations conform to the Shop Drawing requirements.
- B. Notify Consultant in writing of any site conditions that are not acceptable and how the Contractor will resolve the installation conditions.
- C. Proceed with installation after verification and correction of surface conditions acceptable to manufacturer.

300-3.2 INSTALLATION

- A. Comply with manufacturer's instructions and recommendations for installation of the work, as shown on approved Shop Drawings.
- B. Ground Sound Barrier Support Installation:
 - a. Caisson Foundation: Excavated and cast directly against undisturbed soil unless otherwise directed by Professional Engineer.
 - b. Concrete: As indicated in Section M-200 Drilled Shaft Caisson Foundation
 - c. Shape and level top of all footings to allow for horizontal seating of bottom panels. Slope remaining surface to allow for shedding of water.
 - d. Anchor Bolts
 - i. Anchor bolt location: $\pm 1/16$ " from center of the specified location.
 - ii. Anchor bolt groups location: Within $1/4$ " of specified locations in all directions.
 - iii. Hold cast anchor bolt location using steel template for a minimum of 24 hours after concrete has been placed.
 - iv. Maximum accumulation: $1/8$ " per 50' along the line of multiple anchor groups but not to exceed a total of 1".
 - e. Steel Beams:
 - i. Weld base plate to steel beams and bolt beam base plate to anchors.
 - ii. Install beams plumb to within $\pm 3/8$ ".
 - iii. Locate beams at lines and grades as specified on the approved Shop Drawings.
 - iv. Snap on steel beam covers prior to installation of panels.
 - f. Panels:
 - i. Place panel with steel support inside cavity as bottom course, inserting sound barrier panel within the flange of the steel beams.
 - ii. Install subsequent panels of the type and color specified with the tongue portion facing upwards and assembled tight to the lower panel.
 - iii. Mesh tongue and groove joins fully, be free from foreign material, and free of visible gaps.
 - iv. Place cap rail at top of sound barrier wall system.

- g. Panel Retention Bolt
 - i. Panel retention bolt shall be installed at top of post as shown on the shop drawings. Nut shall be secured using the 1/3 turn of nut method.

300-3.3 TOLERANCES

- A. Centerline of sound wall: Not more than 3/8" from indicated plan location.
- B. Beams: Plumb within 3/8" of required location.
- C. Panels: Stacked, with a vertical tolerance of 1/4".

300-3.4 CLEANING

- A. Progress Cleaning: Leave work area clean at the end of each work day, ensuring safe movement of passing pedestrians.
- B. Final Cleaning: At completion of installation, clean all surfaces so they are free of foreign matter using cleaners recommended by sound barrier manufacturer.
- C. Remove and replace panels and beam covers damaged during installation and construction so no evidence remains of corrective work, at no additional cost to the Owner.
- D. Waste Management: Coordinate recycling of waste materials and packaging at appropriate facility, diverting waste from landfill. Certified installer shall be responsible for ensuring waste management efforts are practiced.

METHOD OF MEASUREMENT

300-4.1 The quantity of Sound Wall Barrier to be paid for shall be the number of square feet measured in its installed and completed position accepted by the Resident Project Representative (RPR).

BASIS OF PAYMENT

300-5.1 Sound Wall Barrier payment shall be made at the contract unit price per square foot. This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item M-300-1 Sound Wall Barrier per square foot

REFERENCES

American Society for Testing and Materials (ASTM):

- ASTM A123/A123M-12 Standard Specification for Zinc (Hot-Dipped Galvanized) Coating or Iron and Steel Products
- ASTM A449-10 Standard Specification for Hex Cap Screws, Bolts and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use
- ASTM A563-07a Standard Specification for Carbon and Alloy Steel Nuts
- ASTM A992/A992M-11 Standard Specification for Structural Steel Shapes

Last Modified: 04/18/2025 at 12:56PM EDT

- ASTM A1011/A1011M-12b Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with improved Formability, and Ultra-High Strength
- ASTM C423-09a Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- ASTM C939-10 Standard Test Method for Flow of Grout for Preplaced Aggregate Concrete (Flow Cone Method)
- ASTM C1107/C1107M-11 Standard Specification for Packaged Dry, Hydraulic Cement Grout (Nonshrink)
- ASTM D2565-99(2008) Standard Practice for Xenon Arc Exposure of Plastics Intended for Outdoor Applications
- ASTM E90-09, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E795-05(2012) Standard Practices for Mounting Test Specimens During Sound Absorption Tests
- ASTM F436-11, Standard Specification for Hardened Steel Washers

Canadian Standards Association (CSA):

- CAN/CSA-G40.20-04 (R2009) General Requirements for Rolled or Welded Structural Quality Steel
- CSA W59-03 (R2008) Welded Steel Construction (Metal Arc Welding)
- CAN/CSA S6S1-10 Supplement #1 to S6 1-06, Commentary to CAN/CSA S6-06, Canadian Bridge Design Code
- CSA-S16-14 Design of Steel Structures
- CAN/CSA-S136-07 North American Specification for the Design of Cold-Formed Steel Structural Members

Canadian General Standards Board (CGSB):

- CAN/CGSB-1.181-99 Ready-Mixed Organic Zinc-Rich Coating

American National Standards Institute/American Welding Society:

- ANSI/AWS D1.1 Structural Welding Code - Steel.
- ANSI/AWS D1.3 Structural Welding Code - Sheet Steel.

American Association of State Highway and Transportation Officials (AASHTO):

- AASHTO Guide Specification for Structural Design of Sound Barriers
- AASHTO LRFD Bridge Design Specifications

American Society of Civil Engineers (ASCE):

- ASCE 7-10 Minimum Design Loads for Buildings and Other Structures

END OF ITEM M-300

ITEM M-400 SITE DEMOLITION

DESCRIPTION

400-1.1 This item shall consist of site demolitions measured as shown on the plans or as ordered by the Resident Project Representative (RPR) during the life of a contract to prepare the site for any work to be performed for the project.

The Contractor shall examine the Contact Documents, including the Drawings and any associated Specifications for work which may be affected by this Section.

The Work includes, but not may not be limited to, the following:

- A. Demolition and removal of selected site elements as required for new work. Refer to the Drawings for additional requirements.
- B. Salvage of existing items, if any, to be reused or turned over to the Owner.
- C. Removal and legal disposal of demolished materials off site. Except those items which are specifically designated to be relocated, reused, or turned over to the Owner, all existing removed materials, items, trash and debris shall become property of the Contractor and shall be completely removed from the site and legally disposed of at their expense. Disposal salvage value, if any and not to be turned over to the Owner, belongs to the Contractor, but on-site sale of salvage materials is not permitted.
- D. Scheduling and sequencing of any operations without interruption to utilities serving occupied areas. If interruption is required, obtain written permission from the utility company and the Owner. Provide temporary services as necessary to serve occupied and usable facilities when permanent utilities must be interrupted or schedule interruption when the least amount of inconvenience will result.
- E. Regulatory Requirements: Obtaining all necessary permits, providing necessary notifications, and complying with all local, state and federal laws regarding safety and demolition, in a timely manner, and at the Contractor's expense. If applicable, this also includes the Contractor's on-line notification with Form *BWP-AQ-06 – Notification Prior to Construction or Demolition (Building)*, to Massachusetts DEP which must be filed a minimum of 10 business days before the start of any building construction/demolition work. Comply with ANSI A10.6 Safety Requirements for Demolition) and NFPA 241 (Standard for Safeguarding Construction, Alteration, and Demolition Operations).
- F. Except as noted otherwise herein, site demolition as outlined and described under this Section shall be performed by the Contractor.

MATERIALS

400-2.1 SALVAGED MATERIALS (as applicable per the Drawings).

- A. Salvaged for Reinstallation: Materials indicated on the Drawings or otherwise designated in writing by the Owner to be salvaged and reinstalled shall be carefully removed and stored at a location acceptable to the RPR and Owner.
- B. Salvaged for Storage: Materials indicated on the Drawings or otherwise designated in writing by the Owner to be salvaged and stored shall be carefully removed and delivered to the Owner at locations determined by Owner.

CONSTRUCTION

400-3.1 GENERAL.

- A. Examination of the Site
 - a. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
 - b. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
 - c. When unanticipated site conditions that conflict with intended demolition or new design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to RPR
 - d. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

400-3.2 PREPARATION.

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with paved areas, walks, walkways, and other adjacent occupied and used facilities.
 - a. Maintain adequate passage to and from all exit lanes at all times. Before any work is done which significantly alters normal vehicular or pedestrian access or egress patterns, consult with the RPR and obtain approval of code required egress. Under no condition block or interfere with the free flow of vehicle or people at legally required exits, or in any way alter the required condition of such exits.
 - b. Provide temporary signage as directed by the RPR.
- B. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
 - a. Strengthen or add new supports when required during progress of selective demolition.
 - b. Remove temporary shoring, bracing and structural supports when no longer required.
 - c. Post warning signs and place barricades as applicable during placement and removal of temporary shoring.
- C. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of vehicles and people around demolition area(s).
- D. Erect temporary protection and temporary barricades as required to limit access to demolition areas.
- E. Protect existing site improvements, appurtenances, and landscaping to remain.

400-3.2 SELECTIVE DEMOLITION, GENERAL.

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - a. Proceed with selective demolition systematically. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 - b. If necessary to be used, do not use cutting torches until work area is cleared of flammable materials. At concealed/confined spaces, such as manholes, ducts and large pipe interiors, verify condition and contents of the space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
 - c. Maintain adequate ventilation when using cutting torches.
 - d. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 - e. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on other structures.
 - f. Dispose of demolished items and materials promptly. Comply with requirements of all local, state and federal rules and regulations.
- B. Removed and Salvaged Items:
 - a. Clean salvaged items.
 - b. If necessary, pack or crate items after cleaning. Label and identify contents of containers.
 - c. Store items in a secure area until delivery to Owner.
 - d. Transport items to storage area designated by the Owner.
 - e. Protect items from damage during transport and storage.
- C. Removed and Reinstalled Items:
 - a. Clean items and perform minor repair due to removal and restore to functional condition adequate for intended reuse.
 - b. If necessary, pack or crate items after cleaning and repairing. Label and identify contents of containers.
 - c. Protect items from damage during transport and storage.
 - d. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- D. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition and subsequent construction. When permitted by the RPR, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

- E. Items for Re-use and Preservation of Existing Surfaces to Remain:
- a. The Contractor shall inspect closely each item specifically designated to be relocated, re-used, or turned over to the Owner prior to its removal, and immediately report damages and defects to the RPR and the Owner. The Contractor shall be responsible for any subsequent damage to the same other than latent defects not readily apparent from close inspection, and shall bear responsibility for its repair or same replacement as directed by the RPR, to the satisfaction of the Owner.
 - b. Unless special surface preparation is specified under other Specification Sections, leave existing surfaces that are to remain in a condition suitable to receive new materials and/or finishes.

400-3.3 PROTECTION OF PUBLIC AND PROPERTY

- A. Provide all measures required by federal, state and municipal laws, regulations, and ordinances for the protection of surrounding property, the public, workmen, and Owner's employees during all demolition and removal operations. Measures are to be taken, but not limited to installation of paved areas, sheds, barricades, fences, warning lights and signs and temporary lighting.
- B. Protect all pavements, trees and plantings, on and off premises, and bear all costs for correcting such damage as directed by the RPR, and to the satisfaction of the Owner.
- C. Demolition shall be performed in such a manner that will ensure the safety of adjacent property. Protect adjacent property from damage and protect persons occupying adjacent property from injuries which might occur from falling debris or other cause and so as not to cause interference with the use of other portions of the building, of adjacent buildings or the free access and safe passage to and from the same.

400-3.4 DISCOVERY OF HAZARDOUS MATERIALS

- A. If hazardous materials, such as chemicals, asbestos-containing materials, or other hazardous materials are discovered during the course of the work, cease work (in affected area only) and immediately notify the RPR and the Owner of such discovery. Do not proceed with work in such areas until instructions are issued by the RPR. Continue work in other areas.
- B. If unmarked structures/materials are discovered during the course of the demolition work, cease work (in the affected area only) and immediately notify the RPR and the Owner of such discovery. Do not proceed with work in such areas until instructions are issued by the RPR. Take immediate precautions to prohibit endangering the structures/materials integrity. Continue work in other areas.

400-3.4 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Comply with requirements of all local, state and federal rules and regulations and the following:
 - a. Do not allow demolished materials to accumulate on-site.
 - b. Dumpsters and other waste storage devices must be covered at all times and secured at end of work shift.
 - c. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

- B. Burning: Do not burn demolished materials.

400-3.5 CLEANING

- A. Clean adjacent structures, pavements and other improvements of dust, dirt, and debris caused by selective demolition operations. Premises shall be left in a clean condition and ready to accept new construction.

METHOD OF MEASUREMENT

400-4.1 Site demolition work required will be performed as shown or directed by the RPR. The work shall be completed and accepted by RPR and will be measured as follows:

- A. Groundwater Monitoring Well Removal will be measured per each.

4002-4.2 Minor site demolition work performed as incidental to the construction work areas, including outside the phased construction limits such as borrow and waste areas, haul roads, equipment and material storage sites, and miscellaneous temporary sites required for the completion of the work, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

BASIS OF PAYMENT

400-5.1 Accepted quantities of site demolition work as shown on the plans, or ordered by the RPR, and measured as provided in paragraph 200-4.1 and paid as follows:

- A. The payment for the Groundwater Monitoring Well Removal shall be paid per each for the complete removal of the existing groundwater monitoring well as outlined on the Plans and accepted by the Engineer. Payment for this item shall be considered as full compensation for furnishing all labor, equipment, tools, materials and components; for removing the groundwater well materials; protection of adjacent utilities and facilities to remain; sequencing construction to minimize outage for any service; coordinating with the Owner or other utilities for any disconnection and reconnection of utility temporarily disturbed (including but not limited to: electrical, communications, water, sewer, etc.) as applicable; and all incidental items for the complete groundwater monitoring well removal and the proper disposal for all of the demolition items in accordance with all local, state and federal rules and regulations.

Payment will be made under:

Item M-400-1 Groundwater Monitoring Well Removal - per each

END OF ITEM M-400

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ITEM P-151 CLEARING AND GRUBBING

DESCRIPTION

151-1.1 This item shall consist of clearing or clearing and grubbing, including the disposal of materials, for all areas within the limits designated on the plans or as required by the Resident Project Representative (RPR).

a. Clearing shall consist of the cutting and removal of all trees, stumps, brush, logs, hedges, the removal of fences and other loose or projecting material from the designated areas. The grubbing of stumps and roots will not be required.

b. Clearing and grubbing shall consist of clearing the surface of the ground of the designated areas of all trees, stumps, down timber, logs, snags, brush, undergrowth, hedges, heavy growth of grass or weeds, fences, structures, debris, and rubbish of any nature, natural obstructions or such material which in the opinion of the RPR is unsuitable for the foundation of strips, pavements, or other required structures, including the grubbing of stumps, roots, matted roots, foundations, and the disposal from the project of all spoil materials resulting from clearing and grubbing.

c. Select Tree Cutting & Removal. Tree Removal shall consist of the cutting and removal of isolated single trees or isolated groups of trees, and the grubbing of stumps and roots. The removal of all the trees of this classification shall be in accordance with the requirements for the particular area being cleared.

CONSTRUCTION METHODS

151-2.1 General. The areas denoted on the plans to be cleared shall be staked on the ground by the Contractor as indicated on the plans.

The removal of existing structures and utilities required to permit orderly progress of work shall be accomplished by local agencies, unless otherwise shown on the plans. Whenever a telephone pole, pipeline, conduit, sewer, roadway, or other utility is encountered and must be removed or relocated, the Contractor shall advise the RPR who will notify the proper local authority or owner to secure prompt action.

151-2.1.1 Disposal. All materials removed by clearing or by clearing and grubbing shall be disposed of outside the Airport's limits at the Contractor's responsibility, except when otherwise directed by the RPR. As far as practicable, waste concrete and masonry shall be placed on slopes of embankments or channels. When embankments are constructed of such material, this material shall be placed in accordance with requirements for formation of embankments. Any broken concrete or masonry that cannot be used in construction and all other materials not considered suitable for use elsewhere, shall be disposed of by the Contractor. In no case, shall any discarded materials be left in windrows or piles adjacent to or within the airport limits. The manner and location of disposal of materials shall be subject to the approval of the RPR and shall not create an unsightly or objectionable view. When the Contractor is required to locate a disposal area outside the airport property limits, the Contractor shall obtain and file with the RPR permission in writing from the property owner for the use of private property for this purpose.

151-2.1.2 Blasting. Blasting shall not be allowed.

151-2.2 Clearing. The Contractor shall clear the staked or indicated area of all materials as indicated on the plans. Trees unavoidably falling outside the specified clearing limits must be cut

up, removed, and disposed of in a satisfactory manner. To minimize damage to trees that are to be left standing, trees shall be felled toward the center of the area being cleared. The Contractor shall preserve and protect from injury all trees not to be removed. The trees, stumps, and brush shall be cut flush with the original ground surface. The grubbing of stumps and roots will not be required.

Fences shall be removed and disposed of as directed by the RPR. Fence wire shall be neatly rolled and the wire and posts stored on the airport if they are to be used again, or stored at a location designated by the RPR if the fence is to remain the property of a local owner or authority.

151-2.3 Clearing and grubbing. In areas designated to be cleared and grubbed, all stumps, roots, buried logs, brush, grass, and other unsatisfactory materials as indicated on the plans, shall be removed, except where embankments exceeding 3-1/2 feet (105 cm) in depth will be constructed outside of paved areas. For embankments constructed outside of paved areas, all unsatisfactory materials shall be removed, but sound trees, stumps, and brush can be cut off flush with the original ground and allowed to remain. Tap roots and other projections over 1-1/2 inches (38 mm) in diameter shall be grubbed out to a depth of at least 18 inches (0.5 m) below the finished subgrade or slope elevation.

Any buildings and miscellaneous structures that are shown on the plans to be removed shall be demolished or removed, and all materials shall be disposed of by removal from the site. The cost of removal is incidental to this item. The remaining or existing foundations, wells, cesspools, and like structures shall be destroyed by breaking down the materials of which the foundations, wells, cesspools, etc., are built to a depth at least 2 feet (60 cm) below the existing surrounding ground. Any broken concrete, blocks, or other objectionable material that cannot be used in backfill shall be removed and disposed of at the Contractor's expense. The holes or openings shall be backfilled with acceptable material and properly compacted.

All holes in embankment areas remaining after the grubbing operation shall have the sides of the holes flattened to facilitate filling with acceptable material and compacting as required in Item P-152. The same procedure shall be applied to all holes remaining after grubbing in areas where the depth of holes exceeds the depth of the proposed excavation.

METHOD OF MEASUREMENT

151-3.1 The quantities of clearing as shown by the limits on the plans shall be the number of acres or fractions thereof, of land specifically cleared.

151-3.2 The quantities of clearing and grubbing as shown by the limits on the plans shall be the number of acres or fractions thereof of land specifically cleared and grubbed.

151-3.3 The quantity of select tree cutting & removal as shown on the plans shall be the number of individual trees of land specifically cleared.

BASIS OF PAYMENT

151-4.1 Payment shall be made at the contract unit price per acre or fractions thereof for clearing. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

151-4.2 Payment shall be made at the contract unit price per acre for clearing and grubbing. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

151-4.3 Payment shall be made at the contract unit price per number of individual trees for select tree cutting and removal. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

- Item P-151-4.1 Clearing – per acre or fractions thereof – NOT USED
- Item P-151-4.2 Clearing and grubbing - per acre or fractions thereof – NOT USED
- Item P-151-4.3 Select Tree Cutting & Removal – per number of individual trees

END OF ITEM P-151

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ITEM P-152
EXCAVATION, SUBGRADE, AND EMBANKMENT

DESCRIPTION

152-1.1 This item covers excavation, disposal, placement, and compaction of all materials within the limits of the work required to construct safety areas, runways, taxiways, aprons, and intermediate areas as well as other areas for drainage, building construction, parking, or other purposes in accordance with these specifications and in conformity to the dimensions and typical sections shown on the plans.

152-1.2 Classification. All material excavated shall be classified as defined below:

a. Unclassified excavation. Unclassified excavation shall consist of the excavation and disposal of all material, regardless of its nature.

152-1.3 Unsuitable excavation. Unsuitable material shall be disposed in designated waste areas as shown on the plans. Materials containing vegetable or organic matter, such as muck, peat, organic silt, or sod shall be considered unsuitable for use in embankment construction. Material suitable for topsoil may be used on the embankment slope when approved by the RPR.

CONSTRUCTION METHODS

152-2.1 General. Before beginning excavation, grading, and embankment operations in any area, the area shall be cleared or cleared and grubbed in accordance with Item P-151.

The suitability of material to be placed in embankments shall be subject to approval by the RPR. All unsuitable material shall be disposed of in waste areas as shown on the plans. All waste areas shall be graded to allow positive drainage of the area and adjacent areas. The surface elevation of waste areas shall be specified on the plans or approved by the RPR.

When the Contractor's excavating operations encounter artifacts of historical or archaeological significance, the operations shall be temporarily discontinued and the RPR notified per Section 70, paragraph 70-20. At the direction of the RPR, the Contractor shall excavate the site in such a manner as to preserve the artifacts encountered and allow for their removal. Such excavation will be paid for as extra work.

Areas outside the limits of the pavement areas where the top layer of soil has become compacted by hauling or other Contractor activities shall be scarified and disked to a depth of 4 inches (100 mm), to loosen and pulverize the soil. Stones or rock fragments larger than 4 inches (100 mm) in their greatest dimension will not be permitted in the top 6 inches (150 mm) of the subgrade.

If it is necessary to interrupt existing surface drainage, sewers or under-drainage, conduits, utilities, or similar underground structures, the Contractor shall be responsible for and shall take all necessary precautions to preserve them or provide temporary services. When such facilities are encountered, the Contractor shall notify the RPR, who shall arrange for their removal if necessary. The Contractor, at their own expense, shall satisfactorily repair or pay the cost of all damage to such facilities or structures that may result from any of the Contractor's operations during the period of the contract.

a. Blasting. Blasting shall not be allowed.

152-2.2 Excavation. No excavation shall be started until the work has been staked out by the

Contractor and the RPR has obtained from the Contractor, the survey notes of the elevations and measurements of the ground surface. The Contractor and RPR shall agree that the original ground lines shown on the original topographic mapping are accurate, or agree to any adjustments made to the original ground lines.

All areas to be excavated shall be stripped of vegetation and topsoil. Topsoil shall be stockpiled for future use in areas designated on the plans or by the RPR. All suitable excavated material shall be used in the formation of embankment, subgrade, or other purposes as shown on the plans. All unsuitable material shall be disposed of as shown on the plans.

The grade shall be maintained so that the surface is well drained at all times.

When the volume of the excavation exceeds that required to construct the embankments to the grades as indicated on the plans, the excess shall be used to grade the areas of ultimate development or disposed as directed by the RPR. When the volume of excavation is not sufficient for constructing the embankments to the grades indicated, the deficiency shall be obtained from borrow areas.

a. Selective grading. When selective grading is indicated on the plans, the more suitable material designated by the RPR shall be used in constructing the embankment or in capping the pavement subgrade. If, at the time of excavation, it is not possible to place this material in its final location, it shall be stockpiled in approved areas until it can be placed. The more suitable material shall then be placed and compacted as specified. Selective grading shall be considered incidental to the work involved. The cost of stockpiling and placing the material shall be included in the various pay items of work involved.

b. Undercutting. Rock, shale, hardpan, loose rock, boulders, or other material unsatisfactory for safety areas, subgrades, roads, shoulders, or any areas intended for turf shall be excavated to a minimum depth of 12 inches (300 mm) below the subgrade or to the depth specified by the RPR. Muck, peat, matted roots, or other yielding material, unsatisfactory for subgrade foundation, shall be removed to the depth specified. Unsuitable materials shall be disposed of at locations shown on the plans. This excavated material shall be paid for at the contract unit price per cubic yard (per cubic meter) for **Unclassified Excavation**. The excavated area shall be backfilled with suitable material obtained from the grading operations or borrow areas and compacted to specified densities. The necessary backfill will constitute a part of the embankment. Where rock cuts are made, backfill with select material. Any pockets created in the rock surface shall be drained in accordance with the details shown on the plans. Undercutting will be paid as unclassified excavation.

c. Over-break. Over-break, including slides, is that portion of any material displaced or loosened beyond the finished work as planned or authorized by the RPR. All over-break shall be graded or removed by the Contractor and disposed of as directed by the RPR. The RPR shall determine if the displacement of such material was unavoidable and their own decision shall be final. Payment will not be made for the removal and disposal of over-break that the RPR determines as avoidable. Unavoidable over-break will be classified as "Unclassified Excavation."

d. Removal of utilities. The removal of existing structures and utilities required to permit the orderly progress of work will be accomplished by the Contractor as indicated on the plans. All existing foundations shall be excavated at least 2 feet (60 cm) below the top of subgrade or as indicated on the plans, and the material disposed of as directed by the RPR. All foundations thus excavated shall be backfilled with suitable material and compacted as specified for embankment or as shown on the plans.

152-2.3 Borrow excavation. Borrow areas within the airport property are indicated on the plans.

Borrow excavation shall be made only at these designated locations and within the horizontal and vertical limits as staked or as directed by the RPR. All unsuitable material shall be disposed of by the Contractor as shown on the plans. All borrow pits shall be opened to expose the various strata of acceptable material to allow obtaining a uniform product. Borrow areas shall be drained and left in a neat, presentable condition with all slopes dressed uniformly. Borrow areas shall not create a hazardous wildlife attractant.

152-2.4 Drainage excavation. Drainage excavation shall consist of excavating drainage ditches including intercepting, inlet, or outlet ditches; or other types as shown on the plans. The work shall be performed in sequence with the other construction. Ditches shall be constructed prior to starting adjacent excavation operations. All satisfactory material shall be placed in embankment fills; unsuitable material shall be placed in designated waste areas or as directed by the RPR. All necessary work shall be performed true to final line, elevation, and cross-section. The Contractor shall maintain ditches constructed on the project to the required cross-section and shall keep them free of debris or obstructions until the project is accepted.

152-2.5 Preparation of cut areas or areas where existing pavement has been removed. In those areas on which a subbase or base course is to be placed, the top 12 inches (300 mm) of subgrade shall be compacted to not less than **100%** of maximum density for non-cohesive soils, and **95%** of maximum density for cohesive soils as determined by **ASTM D1557**. As used in this specification, "non-cohesive" shall mean those soils having a plasticity index (PI) of less than 3 as determined by ASTM D4318.

152-2.6 Preparation of embankment area. All sod and vegetative matter shall be removed from the surface upon which the embankment is to be placed. The cleared surface shall be broken up by plowing or scarifying to a minimum depth of 6 inches (150 mm) and shall then be compacted per paragraph 152-2.10.

Sloped surfaces steeper than one (1) vertical to four (4) horizontal shall be plowed, stepped, benched, or broken up so that the fill material will bond with the existing material. When the subgrade is part fill and part excavation or natural ground, the excavated or natural ground portion shall be scarified to a depth of 12 inches (300 mm) and compacted as specified for the adjacent fill.

No direct payment shall be made for the work performed under this section. The necessary clearing and grubbing and the quantity of excavation removed will be paid for under the respective items of work.

152-2.7 Control Strip. The first half-day of construction of subgrade and/or embankment shall be considered as a control strip for the Contractor to demonstrate, in the presence of the RPR, that the materials, equipment, and construction processes meet the requirements of this specification. The sequence and manner of rolling necessary to obtain specified density requirements shall be determined. The maximum compacted thickness may be increased to a maximum of 12 inches (300 mm) upon the Contractor's demonstration that approved equipment and operations will uniformly compact the lift to the specified density. The RPR must witness this demonstration and approve the lift thickness prior to full production.

Control strips that do not meet specification requirements shall be reworked, re-compacted, or removed and replaced at the Contractor's expense. Full operations shall not begin until the control strip has been accepted by the RPR. The Contractor shall use the same equipment, materials, and construction methods for the remainder of construction, unless adjustments made by the Contractor are approved in advance by the RPR.

152-2.8 Formation of embankments. The material shall be constructed in lifts as established in the control strip, but not less than 6 inches (150 mm) nor more than 12 inches (300 mm) of

compacted thickness.

When more than one lift is required to establish the layer thickness shown on the plans, the construction procedure described here shall apply to each lift. No lift shall be covered by subsequent lifts until tests verify that compaction requirements have been met. The Contractor shall rework, re-compact and retest any material placed which does not meet the specifications.

The lifts shall be placed, to produce a soil structure as shown on the typical cross-section or as directed by the RPR. Materials such as brush, hedge, roots, stumps, grass and other organic matter, shall not be incorporated or buried in the embankment.

Earthwork operations shall be suspended at any time when satisfactory results cannot be obtained due to rain, freezing, or other unsatisfactory weather conditions in the field. Frozen material shall not be placed in the embankment nor shall embankment be placed upon frozen material. Material shall not be placed on surfaces that are muddy, frozen, or contain frost. The Contractor shall drag, blade, or slope the embankment to provide surface drainage at all times.

The material in each lift shall be within $\pm 2\%$ of optimum moisture content before rolling to obtain the prescribed compaction. The material shall be moistened or aerated as necessary to achieve a uniform moisture content throughout the lift. Natural drying may be accelerated by blending in dry material or manipulation alone to increase the rate of evaporation.

The Contractor shall make the necessary corrections and adjustments in methods, materials or moisture content to achieve the specified embankment density.

The Contractor will take samples of excavated materials which will be used in embankment for testing and develop a Moisture-Density Relations of Soils Report (Proctor) in accordance with ASTM D698. A new Proctor shall be developed for each soil type based on visual classification.

Density tests will be taken by the Contractor for every 3,000 square yards of compacted embankment for each lift which is required to be compacted, or other appropriate frequencies as determined by the RPR.

If the material has greater than 30% retained on the 3/4-inch (19.0 mm) sieve, follow AASHTO T-180 Annex Correction of maximum dry density and optimum moisture for oversized particles.

Rolling operations shall be continued until the embankment is compacted to not less than **95%** of maximum density for non-cohesive soils, and **90%** of maximum density for cohesive soils as determined by **ASTM D698**. Under all areas to be paved, the embankments shall be compacted to a depth of **twelve inches (12")** and to a density of not less than **100** percent of the maximum density as determined by **ASTM D1557**. As used in this specification, "non-cohesive" shall mean those soils having a plasticity index (PI) of less than 3 as determined by ASTM D4318.

On all areas outside of the pavement areas, no compaction will be required on the top 4 inches (100 mm) which shall be prepared for a seedbed in accordance with Item T-901.

The in-place field density shall be determined in accordance with either ASTM D1556 or ASTM 6938 using Procedure A, the direct transmission method, and ASTM D6938 shall be used to determine the moisture content of the material. The machine shall be calibrated in accordance with ASTM D6938. The Contractor's laboratory shall perform all density tests in the RPR's presence and provide the test results upon completion to the RPR for acceptance. If the specified density is not attained, the area represented by the test or as designated by the RPR shall be reworked and/or re-compacted and additional random tests made. This procedure shall be followed until the specified density is reached.

Compaction areas shall be kept separate, and no lift shall be covered by another lift until the proper

density is obtained.

During construction of the embankment, the Contractor shall route all construction equipment evenly over the entire width of the embankment as each lift is placed. Lift placement shall begin in the deepest portion of the embankment fill. As placement progresses, the lifts shall be constructed approximately parallel to the finished pavement grade line.

When rock, concrete pavement, asphalt pavement, and other embankment material are excavated at approximately the same time as the subgrade, the material shall be incorporated into the outer portion of the embankment and the subgrade material shall be incorporated under the future paved areas. Stones, fragmentary rock, and recycled pavement larger than 4 inches (100 mm) in their greatest dimensions will not be allowed in the top 12 inches (300 mm) of the subgrade. Rockfill shall be brought up in lifts as specified or as directed by the RPR and the finer material shall be used to fill the voids forming a dense, compact mass. Rock, cement concrete pavement, asphalt pavement, and other embankment material shall not be disposed of except at places and in the manner designated on the plans or by the RPR.

When the excavated material consists predominantly of rock fragments of such size that the material cannot be placed in lifts of the prescribed thickness without crushing, pulverizing or further breaking down the pieces, such material may be placed in the embankment as directed in lifts not exceeding 2 feet (60 cm) in thickness. Each lift shall be leveled and smoothed with suitable equipment by distribution of spalls and finer fragments of rock. The lift shall not be constructed above an elevation 4 feet (1.2 m) below the finished subgrade.

Payment for compacted embankment will be made under embankment in-place and no payment will be made for excavation, borrow, or other items.

152-2.9 Proof rolling. Not Used.

152-2.10 Compaction requirements. The subgrade under areas to be paved shall be compacted to a depth of 12 inches (300 mm) and to a density of not less than **100 percent** of the maximum dry density as determined by **ASTM D1557**. The subgrade in areas outside the limits of the pavement areas shall be compacted to a depth of 12 inches (300 mm) and to a density of not less than **95 percent** of the maximum density as determined by **ASTM D698**.

The material to be compacted shall be within $\pm 2\%$ of optimum moisture content before being rolled to obtain the prescribed compaction (except for expansive soils). When the material has greater than 30 percent retained on the $\frac{3}{4}$ inch (19.0 mm) sieve, follow the methods in ASTM D698 and procedures in AASHTO T180 Annex for correction of maximum dry density and optimum moisture for oversized particles. Tests for moisture content and compaction will be taken at a minimum of 2000 S.Y. of subgrade. All quality assurance testing shall be done by the Contractor's laboratory in the presence of the RPR, and density test results shall be furnished upon completion to the RPR for acceptance determination.

The in-place field density shall be determined in accordance with ASTM D1556 or ASTM D6938 using Procedure A, the direct transmission method, and ASTM D6938 shall be used to determine the moisture content of the material. The machine shall be calibrated in accordance with ASTM D6938 within 12 months prior to its use on this contract. The gage shall be field standardized daily.

Maximum density refers to maximum dry density at optimum moisture content unless otherwise specified.

If the specified density is not attained, the entire lot shall be reworked and/or re-compacted and additional random tests made. This procedure shall be followed until the specified density is reached.

All cut-and-fill slopes shall be uniformly dressed to the slope, cross-section, and alignment shown on the plans or as directed by the RPR and the finished subgrade shall be maintained.

152-2.11 Finishing and protection of subgrade. Finishing and protection of the subgrade is incidental to this item. Grading and compacting of the subgrade shall be performed so that it will drain readily. All low areas, holes or depressions in the subgrade shall be brought to grade. Scarifying, blading, rolling and other methods shall be performed to provide a thoroughly compacted subgrade shaped to the lines and grades shown on the plans. All ruts or rough places that develop in the completed subgrade shall be graded, re-compacted, and retested. The Contractor shall protect the subgrade from damage and limit hauling over the finished subgrade to only traffic essential for construction purposes.

The Contractor shall maintain the completed course in satisfactory condition throughout placement of subsequent layers. No subbase, base, or surface course shall be placed on the subgrade until the subgrade has been accepted by the RPR.

152-2.12 Haul. All hauling will be considered a necessary and incidental part of the work. The Contractor shall include the cost in the contract unit price for the pay of items of work involved. No payment will be made separately or directly for hauling on any part of the work.

The Contractor's equipment shall not cause damage to any excavated surface, compacted lift or to the subgrade as a result of hauling operations. Any damage caused as a result of the Contractor's hauling operations shall be repaired at the Contractor's expense.

The Contractor shall be responsible for providing, maintaining and removing any haul roads or routes within or outside of the work area, and shall return the affected areas to their former condition, unless otherwise authorized in writing by the Owner. No separate payment will be made for any work or materials associated with providing, maintaining and removing haul roads or routes.

152-2.13 Surface Tolerances. In those areas on which a subbase or base course is to be placed, the surface shall be tested for smoothness and accuracy of grade and crown. Any portion lacking the required smoothness or failing in accuracy of grade or crown shall be scarified to a depth of at least 3 inches (75 mm), reshaped and re-compacted to grade until the required smoothness and accuracy are obtained and approved by the RPR. The Contractor shall perform all final smoothness and grade checks in the presence of the RPR. Any deviation in surface tolerances shall be corrected by the Contractor at the Contractor's expense.

- a. **Smoothness.** The finished surface shall not vary more than $\pm 1/2$ inch (12 mm) when tested with a 12-foot (3.7-m) straightedge applied parallel with and at right angles to the centerline. The straightedge shall be moved continuously forward at half the length of the 12-foot (3.7-m) straightedge for the full length of each line on a 50-foot (15-m) grid.
- b. **Grade.** The grade and crown shall be measured on a 50-foot (15-m) grid and shall be within ± 0.05 feet (15 mm) of the specified grade.

On safety areas, turfed areas and other designated areas within the grading limits where no subbase or base is to be placed, grade shall not vary more than 0.10 feet (30 mm) from specified grade. Any deviation in excess of this amount shall be corrected by loosening, adding or removing materials, and reshaping.

152-2.14 Topsoil. When topsoil is specified or required as shown on the plans or under Item T-905, it shall be salvaged from stripping or other grading operations. The topsoil shall meet the requirements of Item T-905. If, at the time of excavation or stripping, the topsoil cannot be placed in its final section of finished construction, the material shall be stockpiled at approved locations. Stockpiles shall be located as shown on the plans and the approved CSPP, and shall not be placed

on areas that subsequently will require any excavation or embankment fill. If, in the judgment of the RPR, it is practical to place the salvaged topsoil at the time of excavation or stripping, the material shall be placed in its final position without stockpiling or further re-handling.

Upon completion of grading operations, stockpiled topsoil shall be handled and placed as shown on the plans and as required in Item T-905. Topsoil shall be paid for as provided in Item T-905. No direct payment will be made for topsoil under Item P-152.

METHOD OF MEASUREMENT

152-3.1 Measurement for payment specified by the cubic yard (cubic meter) shall be computed by the average end areas of design cross sections for computation of neat line design quantities. The end area is that bound by the original ground line established by field cross-sections and the final theoretical pay line established by cross-sections shown on the plans, subject to verification by the RPR.

152-3.1 The quantity of unclassified excavation to be paid for shall be the number of cubic yards (cubic meters) measured in its original position. Measurement shall not include the quantity of materials excavated without authorization beyond normal slope lines, or the quantity of material used for purposes other than those directed.

152-3.2 The quantity of embankment in place shall be the number of cubic yards (cubic meters) measured in its final position.

BASIS OF PAYMENT

152-4.1 Unclassified excavation payment shall be made at the contract unit price per cubic yard (cubic meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

152-4.2 For embankment in place, payment shall be made at the contract unit price per cubic yard (cubic meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

- | | |
|----------------|---|
| Item P-152-4.1 | Unclassified Excavation - per cubic yard (cubic meter) |
| Item P-152-4.2 | Embankment In Place – On-Site Borrow - per cubic yard (cubic meter) |

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

American Association of State Highway and Transportation Officials (AASHTO)

AASHTO T-180 Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop

ASTM International (ASTM)

ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))

ASTM D1556 Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method

ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2700 kN-m/m³))

ASTM D6938 Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

Advisory Circulars (AC)

AC 150/5370-2 Operational Safety on Airports During Construction Software

Software

FAARFIELD – FAA Rigid and Flexible Iterative Elastic Layered Design

U.S. Department of Transportation

FAA RD-76-66 Design and Construction of Airport Pavements on Expansive Soils

END OF ITEM P-152

ITEM T-901 SEEDING

DESCRIPTION

901-1.1 This item shall consist of soil preparation, seeding and mulching the areas shown on the plans or as directed by the RPR in accordance with these specifications.

MATERIALS

901-2.1 Seed. The species and application rates of grass seed furnished shall be those stipulated herein. Seed shall conform to the requirements of Federal Specification JJJ-S-181, Federal Specification, Seeds, Agricultural and the Massachusetts Division of Fisheries and Wildlife’s Natural Heritage and Endangered Species Program.

Seed shall be furnished separately or in mixtures in standard containers labeled in conformance with the Agricultural Marketing Service (AMS) Seed Act and applicable state seed laws with the seed name, lot number, net weight, percentages of purity and of germination and hard seed, and percentage of maximum weed seed content clearly marked for each kind of seed. The Contractor shall furnish the RPR duplicate signed copies of a statement by the vendor certifying that each lot of seed has been tested by a recognized laboratory for seed testing within six (6) months of date of delivery. This statement shall include: name and address of laboratory, date of test, lot number for each kind of seed, and the results of tests as to name, percentages of purity and of germination, and percentage of weed content for each kind of seed furnished, and, in case of a mixture, the proportions of each kind of seed. Wet, moldy, or otherwise damaged seed will be rejected.

Recommended seed mix shall be as follows in Table 1:

Table 1 Recommended Airport Grassland Seed Mix

Seed Types¹	% by Weight	Approx. Seed/SF	Approx % by Seed Count
Little Bluestem (<i>Schizachyrium scoparium</i>) ²	75.0	103	30.4
Annual Ryegrass (<i>Lolium multiflorum</i>)	24.0	36	10.6
Path Rush (<i>Juncus tenuis</i>)	1.0	200	59.0

¹ Use of cultivars is prohibited.

² Little Bluestem seed must be New England or New York ecotypes.

Seeding rates should follow supplier recommendations based on the mix of species obtained, in consideration of the number of seeds, site conditions, expected germination rates, and other factors. Generally, the little bluestem seed mix rate should be 22.5 pounds per acre, the annual rye seed mix rate should be between 7.2 pounds per acre and the path rush seed mix rate should be between 0.3 pounds per acre (Total Mix = 30 pounds per acre). This application rate should provide suitable site stabilization by annual rye until the other, slower-germinating species become established.

Table 2 below provides two widely available species substitutions as a contingency, only if the preferred species are unavailable. This table also includes further details for the recommended seed mix species. Additional alternatives may be considered in consultation with the RPR. If the Contractor proposes alternatives, including the alternatives specified in Table 2, the Contractor will need to provide proof that the preferred species are unavailable.

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Table 2 Airport Grassland Seed Mix Specifications and Substitutions

	Seeds per pound ¹	Expected max. seeding rate in pounds/acre as part of a mix; follow supplier's recommendations ¹
Required:		
Annual ryegrass (<i>Lolium multiflorum</i>)	217,000	7.2
Little bluestem (<i>Schizachyrium scoparium</i>), New England or New York ecotype	241,000	22.5
Preferred if available:		
Path rush (<i>Juncus tenuis</i>)	29,000,000	0.3
Alternates if preferred species are not available:		
Poverty grass (<i>Danthonia spicata</i>)	400,000	4
Common hairgrass (<i>Deschampsia flexuosa</i>)	1,000,000	0.5
Purple lovegrass, (<i>Eragrostis spectabilis</i>)	1,000,000	0.4

¹ Basis of design for seeds per pound and recommended seeding rates provided by New England Wetland Plants (www.newp.com). Other seed suppliers are: Ernst Seeds (<https://www.ernstseed.com/>), Prairie Moon Nursery (<https://www.prairiemoon.com/>), and other consultant recommendations. Proposed seeding rates should follow supplier recommendations.

Table 3 below provides contact information for potential commercial seed suppliers that are likely to offer some, or all, of the recommended seed mix components, but any commercial seed supplier providing the specified seed components and/or mixtures may be used. It is noted that seed suppliers typically have the best inventory during February or March when the inventory from the previous year's harvest is complete and few orders have been placed for the current season. This timing may not coincide with seed sourcing for construction projects, which will be done after bids are awarded and shortly before construction commences.

Table 3 Potential Seed Suppliers

Company	Address	Phone	Website
New England Wetland Plant, Inc. ¹	14 Pearl Lane, South Hadley, MA 01075	413-548-8000	https://www.newp.com/
Ernst Conservation Seeds, Inc.	8884 Mercer Pike, Meadville, PA 16335	800-873-3321	https://www.ernstseed.com/
Allens Seed	693 S County Trail Exeter, RI 02822	800-527-3898	http://www.allensseed.com/
Prairie Moon Nursery	32115 Prairie Lane Winona, MN 55987	866-417-8156	https://www.prairiemoon.com/
Roundstone Native Seed, LLC	9764 Raider Hollow Rd Upton, KY 42784	888-531-2353	https://roundstoneseed.com/

¹ Basis of Design Seed Mixture and Application Rate supplier

As noted above, the proposed application rate to be determined by supplier based on the seed mixture proposed for the site.

Seeding shall be performed during the period between April 15 to May 30 and August 15 to November 15 inclusive, unless otherwise approved by the RPR.

901-2.2 Lime. Not required.

901-2.3 Fertilizer. Not required.

901-2.4 Soil for repairs. The soil for fill and topsoiling of areas to be repaired shall be at least of equal quality to that which exists in areas adjacent to the area to be repaired. The soil shall be relatively free from large stones, roots, stumps, or other materials that will interfere with subsequent sowing of seed, compacting, and establishing turf, and shall be approved by the RPR before being placed.

CONSTRUCTION METHODS

901-3.1 Advance preparation and cleanup. After grading of areas has been completed and before applying fertilizer and ground limestone, areas to be seeded shall be raked or otherwise cleared of stones larger than 2 inches (50 mm) in any diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. If any damage by erosion or other causes have occurred after the completion of grading and before beginning the application of fertilizer and ground limestone, the Contractor shall repair such damage include filling gullies, smoothing irregularities, and repairing other incidental damage.

An area to be seeded shall be considered a satisfactory seedbed without additional treatment if it has recently been thoroughly loosened and worked to a depth of not less than 5 inches (125 mm) as a result of grading operations and, if immediately prior to seeding, the top 3 inches (75 mm) of soil is loose, friable, reasonably free from large clods, rocks, large roots, or other undesirable matter, and if shaped to the required grade.

When the area to be seeded is sparsely sodded, weedy, barren and unworked, or packed and hard, any grass and weeds shall first be cut or otherwise satisfactorily disposed of, and the soil then scarified or otherwise loosened to a depth not less than 5 inches (125 mm). Clods shall be broken and the top 3 inches (75 mm) of soil shall be worked into a satisfactory seedbed by discing, or by use of cultipackers, rollers, drags, harrows, or other appropriate means.

901-3.2 Dry application method (NOT USED).

a. Liming. If required by existing soil conditions, lime shall be applied separately and prior to the application of any fertilizer or seed and only on seedbeds that have previously been prepared as described above. The lime shall then be worked into the top 3 inches (75 mm) of soil after which the seedbed shall again be properly graded and dressed to a smooth finish.

b. Fertilizing. Following advance preparations and cleanup fertilizer shall be uniformly spread at the rate that will provide not less than the minimum quantity stated in paragraph 901-2.3.

c. Seeding. Grass seed shall be sown at the rate specified in paragraph 901-2.1 immediately after fertilizing. The fertilizer and seed shall be raked within the depth range stated in the special provisions. Seeds of legumes, either alone or in mixtures, shall be inoculated before mixing or sowing, in accordance with the instructions of the manufacturer of the inoculant. When seeding is required at other than the seasons shown on the plans or in the special provisions, a cover crop shall be sown by the same methods required for grass and legume seeding.

d. Rolling. After the seed has been properly covered, the seedbed shall be immediately compacted by means of an approved lawn roller, weighing 40 to 65 pounds per foot (60 to 97 kg per meter) of width for clay soil (or any soil having a tendency to pack), and weighing 150 to 200 pounds per foot (223 to 298 kg per meter) of width for sandy or light soils.

901-3.3 Wet application method.

a. General. The Contractor **SHALL** apply seed and mulch (with fertilizer and lime, if required) by

spraying them on the previously prepared seedbed in the form of an aqueous mixture and by using the methods and equipment described herein. The rates of application shall be as specified in the special provisions. Refer to Section T-908 for mulch specifications.

b. Spraying equipment. The spraying equipment shall have a container or water tank equipped with a liquid level gauge calibrated to read in increments not larger than 50 gallons (190 liters) over the entire range of the tank capacity, mounted so as to be visible to the nozzle operator. The container or tank shall also be equipped with a mechanical power-driven agitator capable of keeping all the solids in the mixture in complete suspension at all times until used.

The unit shall also be equipped with a pressure pump capable of delivering 100 gallons (380 liters) per minute at a pressure of 100 lb / sq inches (690 kPa). The pump shall be mounted in a line that will recirculate the mixture through the tank whenever it is not being sprayed from the nozzle. All pump passages and pipe lines shall be capable of providing clearance for 5/8 inch (16 mm) solids. The power unit for the pump and agitator shall have controls mounted so as to be accessible to the nozzle operator. There shall be an indicating pressure gauge connected and mounted immediately at the back of the nozzle.

The nozzle pipe shall be mounted on an elevated supporting stand in such a manner that it can be rotated through 360 degrees horizontally and inclined vertically from at least 20 degrees below to at least 60 degrees above the horizontal. There shall be a quick-acting, three-way control valve connecting the recirculating line to the nozzle pipe and mounted so that the nozzle operator can control and regulate the amount of flow of mixture delivered to the nozzle. At least three different types of nozzles shall be supplied so that mixtures may be properly sprayed over distance varying from 20 to 100 feet (6 to 30 m). One shall be a close-range ribbon nozzle, one a medium-range ribbon nozzle, and one a long-range jet nozzle. For case of removal and cleaning, all nozzles shall be connected to the nozzle pipe by means of quick-release couplings.

In order to reach areas inaccessible to the regular equipment, an extension hose at least 50 feet (15 m) in length shall be provided to which the nozzles may be connected.

c. Mixtures. Lime, if required, shall be applied separately, in the quantity specified, prior to the fertilizing and seeding operations. Not more than 220 pounds (100 kg) of lime shall be added to and mixed with each 100 gallons (380 liters) of water. Seed and fertilizer shall be mixed together in the relative proportions specified, but not more than a total of 220 pounds (100 kg) of these combined solids shall be added to and mixed with each 100 gallons (380 liters) of water.

All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. The Contractor shall identify to the RPR all sources of water at least two (2) weeks prior to use. The RPR may take samples of the water at the source or from the tank at any time and have a laboratory test the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the RPR following such tests.

All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within two (2) hours from the time they were mixed or they shall be wasted and disposed of at approved locations.

d. Spraying. Lime, if required, shall be sprayed only upon previously prepared seedbeds. After the applied lime mixture has dried, the lime shall be worked into the top 3 inches (75 mm), after which the seedbed shall again be properly graded and dressed to a smooth finish.

Mixtures of seed and fertilizer shall only be sprayed upon previously prepared seedbeds on which the lime, if required, shall already have been worked in. The mixtures shall be applied by means of

a high-pressure spray that shall always be directed upward into the air so that the mixtures will fall to the ground like rain in a uniform spray. Nozzles or sprays shall never be directed toward the ground in such a manner as might produce erosion or runoff.

Particular care shall be exercised to ensure that the application is made uniformly and at the prescribed rate and to guard against misses and overlapped areas. Proper predetermined quantities of the mixture in accordance with specifications shall be used to cover specified sections of known area.

Checks on the rate and uniformity of application may be made by observing the degree of wetting of the ground or by distributing test sheets of paper or pans over the area at intervals and observing the quantity of material deposited thereon.

On surfaces that are to be mulched as indicated by the plans or designated by the RPR, seed and fertilizer applied by the spray method need not be raked into the soil or rolled. However, on surfaces on which mulch is not to be used, the raking and rolling operations will be required after the soil has dried.

901-3.4 Maintenance of seeded areas. The Contractor shall protect seeded areas against traffic or other use by warning signs or barricades, as approved by the RPR. Surfaces gullied or otherwise damaged following seeding shall be repaired by regrading and reseeding as directed. The Contractor shall mow, water as directed, and otherwise maintain seeded areas in a satisfactory condition until final inspection and acceptance of the work.

When either the dry or wet application method outlined above is used for work done out of season, it will be required that the Contractor establish a good stand of grass of uniform color and density to the satisfaction of the RPR. A grass stand shall be considered adequate when bare spots are one square foot (0.01 sq m) or less, randomly dispersed, and do not exceed 3% of the area seeded.

METHOD OF MEASUREMENT

901-4.1 The quantity of seeding to be paid for shall be the **number of 1,000 square feet (sq m)** units as measured on the ground surface, completed and accepted.

BASIS OF PAYMENT

901-5.1 Payment shall be made at the contract unit price **per 1,000 square feet (sq m)** or fraction thereof, which price and payment shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the work prescribed in this item. Note: Mulching is included as part of the measurement and payment for the materials specified in Section T-908.

Payment will be made under:

Item 901-5.1 Seeding - **per 1,000 square feet (sq m)**

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM C602 Standard Specification for Agricultural Liming Materials

Federal Specifications (FED SPEC)

FED SPEC JJJ-S-181, Federal Specification, Seeds, Agricultural

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports

FAA/United States Department of Agriculture

Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM T-901

ITEM T-905 TOPSOIL

DESCRIPTION.

905-1.1 This item shall consist of preparing the ground surface for topsoil application, removing topsoil from designated stockpiles or areas to be stripped on the site or from approved sources off the site, and placing and spreading the topsoil on prepared areas in accordance with this specification at the locations shown on the plans or as directed by the RPR.

MATERIALS

905-2.1 Topsoil. Topsoil shall be the surface layer of soil with no admixture of refuse or any material toxic to plant growth, and it shall be reasonably free from subsoil and stumps, roots, brush, stones (2 inches (50 mm) or more in diameter), and clay lumps or similar objects. Brush and other vegetation that will not be incorporated with the soil during handling operations shall be cut and removed. Ordinary sod and herbaceous growth such as grass and weeds are not to be removed, but shall be thoroughly broken up and intermixed with the soil during handling operations. Heavy sod or other cover, which cannot be incorporated into the topsoil by discing or other means, shall be removed. The topsoil or soil mixture, unless otherwise specified or approved, shall have a pH range of approximately 5.5 pH to 7.6 pH, when tested in accordance with the methods of testing of the Association of Official Agricultural Chemists in effect on the date of invitation of bids. The organic content shall be not less than 3% nor more than 20% as determined by the wet-combustion method (chromic acid reduction). There shall be not less than 20% nor more than 80% of the material passing the 200 mesh (75 μ m) sieve as determined by the wash test in accordance with ASTM C117.

Natural topsoil may be amended by the Contractor with approved materials and methods to meet the above specifications.

905-2.2 Inspection and tests. Within 10 days following acceptance of the bid, the RPR shall be notified of the source of topsoil to be furnished by the Contractor. The topsoil shall be inspected to determine if the selected soil meets the requirements specified and to determine the depth to which stripping will be permitted. At this time, the Contractor may be required to take representative soil samples from several locations within the area under consideration and to the proposed stripping depths, for testing purposes as specified in paragraph 905-2.1.

CONSTRUCTION METHODS

905-3.1 General. Areas to be topsoiled shall be shown on the plans. If topsoil is available on the site, the location of the stockpiles or areas to be stripped of topsoil and the stripping depths shall be shown on the plans.

Suitable equipment necessary for proper preparation and treatment of the ground surface, stripping of topsoil, and for the handling and placing of all required materials shall be on hand, in good condition, and approved by the RPR before the various operations are started.

905-3.2 Preparing the ground surface. Immediately prior to dumping and spreading the topsoil on any area, the surface shall be loosened by discs or spike-tooth harrows, or by other means approved by the RPR, to a minimum depth of 2 inches (50 mm) to facilitate bonding of the topsoil to the covered subgrade soil. The surface of the area to be topsoiled shall be cleared of all stones

larger than 2 inches (50 mm) in any diameter and all litter or other material which may be detrimental to proper bonding, the rise of capillary moisture, or the proper growth of the desired planting. Limited areas, as shown on the plans, which are too compact to respond to these operations shall receive special scarification.

Grades on the area to be topsoiled, which have been established by others as shown on the plans, shall be maintained in a true and even condition. Where grades have not been established, the areas shall be smooth-graded and the surface left at the prescribed grades in an even and compacted condition to prevent the formation of low places or pockets where water will stand.

905-3.3 Obtaining topsoil. Prior to the stripping of topsoil from designated areas, any vegetation, briars, stumps and large roots, rubbish or stones found on such areas, which may interfere with subsequent operations, shall be removed using methods approved by the RPR. Heavy sod or other cover, which cannot be incorporated into the topsoil by discing or other means shall be removed.

When suitable topsoil is available on the site, the Contractor shall remove this material from the designated areas and to the depth as directed by the RPR. The topsoil shall be spread on areas already tilled and smooth-graded, or stockpiled in areas approved by the RPR. Any topsoil stockpiled by the Contractor shall be rehandled and placed without additional compensation. Any topsoil that has been stockpiled on the site by others, and is required for topsoil purposes, shall be removed and placed by the Contractor. The sites of all stockpiles and areas adjacent thereto which have been disturbed by the Contractor shall be graded if required and put into a condition acceptable for seeding.

When suitable topsoil is secured off the airport site, the Contractor shall locate and obtain the supply, subject to the approval of the RPR. The Contractor shall notify the RPR sufficiently in advance of operations in order that necessary measurements and tests can be made. The Contractor shall remove the topsoil from approved areas and to the depth as directed. The topsoil shall be hauled to the site of the work and placed for spreading, or spread as required. Any topsoil hauled to the site of the work and stockpiled shall be rehandled and placed without additional compensation.

905-3.4 Placing topsoil. The topsoil shall be evenly spread on the prepared areas to a uniform depth of 2 inches (50 mm) after compaction, unless otherwise shown on the plans or stated in the special provisions. Spreading shall not be done when the ground or topsoil is frozen, excessively wet, or otherwise in a condition detrimental to the work. Spreading shall be carried on so that turfing operations can proceed with a minimum of soil preparation or tilling.

After spreading, any large, stiff clods and hard lumps shall be broken with a pulverizer or by other effective means, and all stones or rocks (2 inches (50 mm) or more in diameter), roots, litter, or any foreign matter shall be raked up and disposed of by the Contractor. After spreading is completed, the topsoil shall be satisfactorily compacted by rolling with a cultipacker or by other means approved by the RPR. The compacted topsoil surface shall conform to the required lines, grades, and cross-sections. Any topsoil or other dirt falling upon pavements as a result of hauling or handling of topsoil shall be promptly removed.

METHOD OF MEASUREMENT

905-4.1 Topsoil obtained on the site shall be measured by the number of cubic yards (cubic meters) of topsoil measured in its original position and stripped or excavated. Topsoil stockpiled by others and removed for topsoil by the Contractor shall be measured by the number of cubic yards (cubic

meters) of topsoil measured in the stockpile. Topsoil shall be measured by volume in cubic yards (cubic meters) computed by the method of end areas.

905-4.2 Topsoil obtained off the site shall be measured by the number of cubic yards (cubic meters) of topsoil measured in its original position and stripped or excavated. Topsoil shall be measured by volume in cubic yards (meters) computed by the method of end areas.

BASIS OF PAYMENT

905-5.1 Payment will be made at the contract unit price per cubic yard (cubic meter) for topsoil (obtained on the site). This price shall be full compensation for furnishing all materials and for all preparation, placing, and spreading of the materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

905-5.2 Payment will be made at the contract unit price per cubic yard (cubic meter) for topsoil (obtained off the site). This price shall be full compensation for furnishing all materials and for all preparation, placing, and spreading of the materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item T-905-5.1 Topsoil (Obtained on Site) - per cubic yard (cubic meter)

Item T-905-5.2 Topsoil (Furnished from Off the Site) - per cubic yard (cubic meter) – NOT USED

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM C117 Materials Finer than 75 μm (No. 200) Sieve in Mineral Aggregates by Washing

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports

FAA/United States Department of Agriculture

Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM T-905

ITEM T-908 MULCHING

DESCRIPTION

908-1.1 This item shall consist of furnishing, hauling, placing, and securing mulch on surfaces indicated on the plans or designated by the RPR.

MATERIALS

908-2.1 Mulch material. Acceptable mulch shall be the materials listed below or any approved locally available material that is similar to those specified. Mulch shall be free from noxious weeds, mold, and other deleterious materials. Mulch materials, which contain matured seed of species that would volunteer and be detrimental to the proposed overseeding, or to surrounding farm land, will not be acceptable. Straw or other mulch material which is fresh and/or excessively brittle, or which is in such an advanced stage of decomposition as to smother or retard the planted grass, will not be acceptable.

a. Hay. Not Allowed.

b. Straw. Not Allowed.

c. Hay mulch containing seed. Not Allowed.

d. Manufactured mulch. Cellulose-fiber or wood-pulp mulch shall be products commercially available for use in spray applications.

e. Asphalt binder. Asphalt binder material shall conform to the requirements of ASTM D977, Type SS-1 or RS-1. – NOT USED

908-2.2 Inspection. The RPR shall be notified of sources and quantities of mulch materials available and the Contractor shall furnish him with representative samples of the materials to be used 30 days before delivery to the project. These samples may be used as standards with the approval of the RPR and any materials brought on the site that do not meet these standards shall be rejected.

CONSTRUCTION METHODS

908-3.1 Mulching. Before spreading mulch, all large clods, stumps, stones, brush, roots, and other foreign material shall be removed from the area to be mulched. Mulch shall be applied immediately after seeding. The spreading of the mulch may be by hand methods, blower, or other mechanical methods, provided a uniform covering is obtained.

Mulch material shall be furnished, hauled, and evenly applied on the area shown on the plans or designated by the RPR. Straw or hay shall be spread over the surface to a uniform thickness at the rate of 2 to 3 tons per acre (1800 - 2700 kg per acre) to provide a loose depth of not less than 1-1/2 inches (38 cm) nor more than 3 inches (75 mm). Other organic material shall be spread at the rate directed by the RPR. Mulch may be blown on the slopes and the use of cutters in the equipment for this purpose will be permitted to the extent that at least 95% of the mulch in place on the slope shall be 6 inches (150 mm) or more in length. When mulches applied by the blowing method are cut, the loose depth in place shall be not less than one inch (25 mm) nor more than 2 inches (50 mm).

908-3.2 Securing mulch. The mulch shall be held in place by light discing, a very thin covering of topsoil, pins, stakes, wire mesh, asphalt binder, or other adhesive material approved by the RPR.

Where mulches have been secured by either of the asphalt binder methods, it will not be permissible to walk on the slopes after the binder has been applied. When an application of asphalt binder material is used to secure the mulch, the Contractor must take every precaution to guard against damaging or disfiguring structures or property on or adjacent to the areas worked and will be held responsible for any such damage resulting from the operation.

If the “peg and string” method is used, the mulch shall be secured by the use of stakes or wire pins driven into the ground on 5-foot (1.5-m) centers or less. Binder twine shall be strung between adjacent stakes in straight lines and crisscrossed diagonally over the mulch, after which the stakes shall be firmly driven nearly flush to the ground to draw the twine down tight onto the mulch.

908-3.3 Care and repair.

a. The Contractor shall care for the mulched areas until final acceptance of the project. Care shall consist of providing protection against traffic or other use by placing warning signs, as approved by the RPR, and erecting any barricades that may be shown on the plans before or immediately after mulching has been completed on the designated areas.

b. The Contractor shall be required to repair or replace any mulch that is defective or becomes damaged until the project is finally accepted. When, in the judgment of the RPR, such defects or damages are the result of poor workmanship or failure to meet the requirements of the specifications, the cost of the necessary repairs or replacement shall be borne by the Contractor.

c. If the “asphalt spray” method is used, all mulched surfaces shall be sprayed with asphalt binder material so that the surface has a uniform appearance. The binder shall be uniformly applied to the mulch at the rate of approximately 8 gallons (32 liters) per 1,000 square feet (100 sq m), or as directed by the RPR, with a minimum of 6 gallons (24 liters) and a maximum of 10 gallons (40 liters) per 1,000 square feet (100 sq m) depending on the type of mulch and the effectiveness of the binder securing it. Asphalt binder material may be sprayed on the mulched slope areas from either the top or the bottom of the slope. An approved spray nozzle shall be used. The nozzle shall be operated at a distance of not less than 4 feet (1.2 m) from the surface of the mulch and uniform distribution of the asphalt material shall be required. A pump or an air compressor of adequate capacity shall be used to ensure uniform distribution of the asphalt material.

d. If the “asphalt mix” method is used, the mulch shall be applied by blowing, and the asphalt binder material shall be sprayed into the mulch as it leaves the blower. The binder shall be uniformly applied to the mulch at the rate of approximately 8 gallons (32 liters) per 1,000 square feet (100 sq m) or as directed by the RPR, with a minimum of 6 gallons (24 liters) and a maximum of 10 gallons (40 liters) per 1,000 square feet (100 sq m) depending on the type of mulch and the effectiveness of the binder securing it.

METHOD OF MEASUREMENT

908-4.1 Mulching shall be measured in square yards (square meters) on the basis of the actual surface area acceptably mulched as part of the seeding application. There will be no separate measurements for mulching and will be considered part of the seeding application measurement.

BASIS OF PAYMENT

908-5.1 There will be no separate payment for mulching. Payment for mulching will be incidental to the Seeding item. The price of mulching considered to be part of the seeding application shall be

full compensation for furnishing all materials and for placing the materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under:

Item T-908-5.1 Mulching – incidental to Seeding Item T-901-5.1

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM International (ASTM)

ASTM D977 Standard Specification for Emulsified Asphalt

Advisory Circulars (AC)

AC 150/5200-33 Hazardous Wildlife Attractants on or Near Airports

FAA/United States Department of Agriculture

Wildlife Hazard Management at Airports, A Manual for Airport Personnel

END OF ITEM T-908