

**TOWN OF NORWOOD  
NORWOOD MEMORIAL AIRPORT**

**EXTEND RUNWAY 17 (350' X 100') AND RUNWAY 35 (350' X 100')**

**AIP No. 3-25-0037-###-2026**

**Contract # NAC-26-01**

**ADDENDUM No. 1**

**Date: April 15, 2026**

The following is provided to clarify, add or delete information in the Contract Documents, Specifications and Plans for the above project. This information is required for bidding and construction, and the Bidder's acknowledgement of receipt of this Addendum is required on page B-1 of the BID PROPOSAL.

As a point of clarification, it should be understood that the Contract Documents govern all aspects of the project. Informal discussions held during the Pre-Bid Conference or over the telephone are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents.

**CLARIFICATIONS**

1. Please confirm if Norwood Memorial airport is furnishing the runway closure markers or if those will contractor furnished.?

**Answer: The Norwood Airport will furnish two lighted runway closure markers. The contractor is responsible to providing fuel for the lighted X's and moving the X's.**

2. Please confirm if rock & ledge is going to be considered an incidental cost to unclassified excavation.

**Answer: Borings indicate that ledge is present within the runway 35 limits of work. A pay item has been added for Rock Excavation (P-152-4.3).**

3. Please confirm contractor is to generate & file Stormwater Pollution Prevention Plan with Town of Norwood.

**Answer: The Contractor must file a Notice of Intent with the EPA, not the Town of Norwood. The Airport has a SWPPP in place for the project. The contractor will be required to provide updated contact information.**

4. Please confirm if there are any site-specific requirements for dewatering.

**Answer: The project is located adjacent to wetlands. The contractor should anticipate dewatering activities. Discharge for dewatering shall comply with the wetland variance permit obtained for the project. A copy of the permit is included in the addendum. Dewatering activities will be observed by an Environmental Monitor. Limitations on dewatering are listed in paragraphs 61 through 64.**

5. On sheet L5.1 HV1 and HV1A are highlighted to be replace. I believe that is the high voltage main feed to the MALS shelter from near the tower. Is this to remain or be replaced?

**Answer: The MALS cable replacement does not include the high voltage feed.**

6. C2 is in the highlighted cable to be replace. I believe this is control cable from the MALS to the tower.

Is this to remain or be replaced.

**Answer: The contractor is responsible for replacing the power and control cables between the MALS shack and the light stations. The contractor is not responsible for replacing the control cable between the Air Traffic Control Tower and the MALS shack.**

7. Sheet L4.3 has 2 details for hand holes. Where are the ones with spring cover being installed? How many and under what pay item? L-115-5.1 or 125-5.2.

Answer: The handhole details on sheet L4.3 are associated with the MALS system. There is no separate pay item for the handholes associated with the MALS system. All work associated with the MALS modifications will be paid under item L-125-5.2 MALS System Modifications. The MALS modifications require 5 spring loaded hand holes. The MALS handholes have been located outside the RSA, and are of the Non-Aircraft Rated type.

8. If dewatering is required, is it incidental to line items?

Answer: Dewatering operations are incidental to the pay items they are associated with.

8. Would it be possible to provide more information regarding the MALS modification? For instance, what is the cable count, size, and type of cable. Is the control cable being replaced as well? If so, can you provide a specification on the cable?

**Answer: The MALS modifications include replacing the existing power and control cable in-kind. As-built information has been provided in sheets L5.1 through L5.9.**

### **SPECIFICATIONS**

1. Replace Bid Proposal Section:

**Remove and replace the entire Bid Proposal Section with the new Bid Proposal attachments.**

2. Bid Forms:

**The bid forms have been updated to include a pay item for rock excavation.**

3. Wetland Variance Permit:

**The project is subject to a wetland variance permit. A copy of the permit is included in the addendum attachments.**

4. P-152 Rock Excavation:

**Remove and replace the existing P-152 technical specification with the attached P-152 specs. A pay item has been added for Rock Excavation.**

5. L-125, page 4:

**Remove and replace the exist page L-125, page 4 with the attached page 4. The in-pavement light type has been updated.**

### **DRAWINGS.**

The following sheets were modified from the original bid set:

**G1.4 Quantities:**

Sheet has been revised. See revised sheet.

**L1.1 Runway Lightng Plan:**

Sheet has been revised. See revised sheet.

**L2.2 Lighting Details:**

Sheet has been revised. See revised sheet.

**L3.1 MALS Modifications:**

Sheet has been revised. See revised sheet.

**L5.3 MALS Modifications:**

Sheet has been revised. See revised sheet.

# **BID PROPOSAL**

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## **PROPOSAL**

### **FOR THE CONSTRUCTION OF AIRPORT IMPROVEMENTS**

**To Include: “Runway 17-35 Extension, Norwood Memorial Airport, Norwood MA under A.I.P. Project No. 3-25-0037-XXX-2026”.**

**To: Norwood Airport Commission:**

The undersigned declares that no person in the employ of the Town of Norwood, (hereinafter referred to as the Owner) is pecuniarily interested in this proposal or in the Contract for the work which he proposes to do; that he has carefully examined the contract and specifications and has informed himself fully in regard to all conditions pertaining to the site where the work is to be done and carefully estimated on the work. He understands that the Owner, its agents and employees, are not to be in any manner held responsible for the accuracy of, or bound by, any estimates or plans or underground structures relating to the work, and that if any have been given or made, they are to be considered solely as a base for filling out and comparing the several proposals.

The undersigned proposes to furnish all the labor, equipment and materials required for completing the following at the Norwood Memorial Airport, in accordance with the accompanying specifications and plans prepared by DuBois & King Inc., Bedford, New Hampshire, for the sums specified herein, subject to additions and deductions according to the specifications and in all respects according to the terms thereof.

The undersigned proposes and agrees that within five (5) days after the day on which notice of the acceptance of this proposal shall be given to him or mailed to him at the address hereinafter given, he will sign in sextuplicate in the form of the office copy and will execute and deliver to the Town of Norwood, a bond in the sum specified.

It is understood that the quantities given in this Proposal are approximate only and are given as a basis for comparison of the Proposals. 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 proposal shall apply without change to such variation in the quantity of each of the items, except as further clarified herein.

The undersigned agrees that for extra work, if any, performed in accordance with the terms and provisions of the annexed form of AGREEMENT, he will accept compensation as stipulated therein in full payment for such extra work.

If this Proposal is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the Contract within the time stipulated in the AGREEMENT under the heading "Contract Time", except as otherwise expressly provided in the Contract Documents. The Contractor agrees by execution of this contract that construction shall commence in the same calendar year, unless both the Town of Norwood and the Contractor agree that conditions at the time of execution warrant delay until the following construction season. If the Notice to Proceed is granted during the successive calendar year, construction will commence at the earliest possible date, but no later than June 1<sup>st</sup> of the successive year. The executed contract will not be affected by delays.

As provided in the INVITATION TO BID, the bidder hereby agrees that they will not withdraw this Proposal within 180 consecutive calendar days after the actual date of the opening of Proposals and that, if the Owner shall accept this Proposal, the bidder will duly execute and acknowledge AGREEMENT and furnish, duly executed and acknowledged, the required CONTRACT BONDS within five (5) days after notification that the AGREEMENT and other Contract Documents are ready for signature.

Should the bidder fail to fulfill any of his agreements as herein above set forth, the Owner shall have the right to retain, as liquidated damages, the amount of the Proposal Guaranty, which shall become the Owner's property.

**This Proposal includes Addenda numbers \*\*\* \_\_\_\_\_**  
**\*\*\* To be filled in by Bidder if Addenda are issued.**

The bidder, by submittal of this Proposal, agrees with the Owner that the amount of the Proposal Guaranty with this Proposal fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

The undersigned certifies 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 section the work "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

BIDDER \_\_\_\_\_  
(Name of Bidder)

\_\_\_\_\_  
(Contact Person) By: \_\_\_\_\_  
(Signature and Title of Authorized Representative)

\_\_\_\_\_  
(Telephone Number) \_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City / Town and State)

\_\_\_\_\_  
(Date)

The bidder is a corporation (a partnership - an individual) incorporated or organized in the State / Commonwealth of \_\_\_\_\_ .

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_ (Year)

My commission expires \_\_\_\_\_  
\_\_\_\_\_  
Signature and Seal of Notary Public

**SCHEDULE OF PRICES**  
**Runway 17-35 Extension**  
**Norwood Memorial Airport**  
**Norwood, MA**  
**AIP Project No. 3-25-0037-XXX-2026**

Item No.	Brief Description - Unit or Lump Sum Price (in both words and numerals)	Estimated Quantity	Total Bid Price (in numerals)
M-003-5.1	<b><u>Engineers Field Office &amp; Equipment</u></b> , per LS		
	_____ Dollars and	1 LS	
	_____ Cents (\$_____)		\$_____
M-005-5.1	<b><u>Stone RIP RAP</u></b> , per CY		
	_____ Dollars and	10 CY	
	_____ Cents (\$_____)		\$_____
MassDOT Item M1.03.0	<b><u>Gravel Borrow Subbase</u></b> , per CY		
	_____ Dollars and	3200 CY	
	_____ Cents (\$_____)		\$_____
MassDOT Item M2.01.7	<b><u>Dense Graded Crushed Stone</u></b> , per CY		
	_____ Dollars and	1100 CY	
	_____ Cents (\$_____)		\$_____
C-102-5.1	<b><u>Install Silt Fence</u></b> , per LF		
	_____ Dollars and	2800 LF	
	_____ Cents (\$_____)		\$_____
C-102-5.2	<b><u>Erosion Control Matting</u></b> , per SY		
	_____ Dollars and	560 SY	
	_____ Cents (\$_____)		\$_____
C-102-5.3	<b><u>Temporary Seed</u></b> , per Acre		
	_____ Dollars and	3 AC	
	_____ Cents (\$_____)		\$_____
C-102-5.4	<b><u>Stabilize Construction Entrance</u></b> , per EA		
	_____ Dollars and	2 EA	
	_____ Cents (\$_____)		\$_____

<b>Item No.</b>	<b>Brief Description - Unit or Lump Sum Price (in both words and numerals)</b>	<b>Estimated Quantity</b>	<b>Total Bid Price (in numerals)</b>
C-102-5.5	<b><u>Compost Filter Tube</u></b> , per LF		
	_____ Dollars and	500 LF	
	_____ Cents (\$_____)		\$_____
G-152-5.1	<b><u>Woven Geotextile</u></b> , per SY		
	_____ Dollars and	8200 SY	
	_____ Cents (\$_____)		\$_____
P-150-5.1	<b><u>Pavement Removal</u></b> , per SY		
	_____ Dollars and	320 SY	
	_____ Cents (\$_____)		\$_____
P-150-5.2	<b><u>Runway Threshold Light Removal</u></b> , per LS		
	_____ Dollars and	1 LS	
	_____ Cents (\$_____)		\$_____
P-150-5.3	<b><u>Taxiway Edge Light Removal</u></b> , per EA		
	_____ Dollars and	7 EA	
	_____ Cents (\$_____)		\$_____
P-152-4.1	<b><u>Unclassified Excavation</u></b> , per CY		
	_____ Dollars and	12900 CY	
	_____ Cents (\$_____)		\$_____
P-152-4.2	<b><u>Excavation to Embankment</u></b> , per CY		
	_____ Dollars and	200 CY	
	_____ Cents (\$_____)		\$_____
P-152-4.3	<b><u>Rock Excavation</u></b> , per CY		
	_____ Dollars and	3000 CY	
	_____ Cents (\$_____)		\$_____
P-154-5.1	<b><u>Subbase Course</u></b> , per CY		
	_____ Dollars and	5200 CY	
	_____ Cents (\$_____)		\$_____

<b>Item No.</b>	<b>Brief Description - Unit or Lump Sum Price (in both words and numerals)</b>	<b>Estimated Quantity</b>	<b>Total Bid Price (in numerals)</b>
P-208-5.1	<b><u>Crushed Aggregate Base Course</u></b> , per CY		
	_____ Dollars and	1600 CY	
	_____ Cents (\$_____)		\$_____
P-403-8.1	<b><u>Asphalt Mixture Surface Course</u></b> per TON		
	_____ Dollars and	1300 TON	
	_____ Cents (\$_____)		\$_____
P-603-5.1	<b><u>Emulsified Asphalt Tack Coat</u></b> , per GAL		
	_____ Dollars and	1 GAL	
	_____ Cents (\$_____)		\$_____
P-605-5.1	<b><u>Sawcut Existing Pavement</u></b> , per LF		
	_____ Dollars and	500 LF	
	_____ Cents (\$_____)		\$_____
P-620.5.1	<b><u>White Paint</u></b> , per SF		
	_____ Dollars and	17500 SF	
	_____ Cents (\$_____)		\$_____
P-620-5.2	<b><u>Black Paint</u></b> , per SF		
	_____ Dollars and	4000 SF	
	_____ Cents (\$_____)		\$_____
P-620-5.3	<b><u>Yellow Paint</u></b> , per SF		
	_____ Dollars and	200 SF	
	_____ Cents (\$_____)		\$_____
P-621-5.1	<b><u>Grooving</u></b> , per SY		
	_____ Dollars and	7000 SY	
	_____ Cents (\$_____)		\$_____
T-901-5.1	<b><u>Seeding</u></b> , per Acre		
	_____ Dollars and	3AC	
	_____ Cents (\$_____)		\$_____

Item No.	Brief Description - Unit or Lump Sum Price (in both words and numerals)	Estimated Quantity	Total Bid Price (in numerals)
T-905-5.1	<b><u>Topsoiling</u></b> per CY	1400 CY	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
T-908-5.1	<b><u>Mulching</u></b> , per Acre	3 AC	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-108-5.1	<b><u>No. 8 AWG, 5kV, Type C, 7 Strand, L-824 Cable</u></b> <b><u>Installed in trench, duck bank or conduit,</u></b> per LF	2200 LF	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-108-5.2	<b><u>No. 6 Bare Counterpoise Wire, installed in trench</u></b> <b><u>Duck bank or conduit, incl. ground rods &amp; ground connectors</u></b> per LF	2200 LF	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-110-5.1	<b><u>4" 4 Way Concrete Encased Electrical Duct Bank,</u></b> per LF	230 LF	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-110-5.2	<b><u>Concrete Duct Or splice Marker,</u></b> per EA	4 EA	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-110-5.3	<b><u>2" PVC Electrical Conduit,</u></b> per LF	2000 LF	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		
L-115-5.1	<b><u>Electric Handhole,</u></b> per EA	4 EA	\$ _____
	_____ Dollars and		
	_____ Cents (\$ _____)		

<b>Item No.</b>	<b>Brief Description - Unit or Lump Sum Price (in both words and numerals)</b>	<b>Estimated Quantity</b>	<b>Total Bid Price (in numerals)</b>
L-125-5.1	<b><u>New Runway Edge Light (Base Mounted) L-861</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	4 EA	\$_____
L-125-5.2	<b><u>MALS System Modifications</u></b> , per LS  _____ Dollars and _____ Cents (\$_____)	1 LS	\$_____
L-125-5.3	<b><u>Runway Closure Markers</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	2 EA	\$_____
L-125-5.4	<b><u>Runway End Light Base Mounted L-861E</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	16 EA	\$_____
L-125-5.5	<b><u>Taxiway End Light Base Mounted L-861T</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	12 EA	\$_____
L-125-5.6	<b><u>Runway Threshold Light – In Pavement L-850</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	16 EA	\$_____
L-125-5.7	<b><u>Change Runway Edge Light Lens</u></b> , per EA  _____ Dollars and _____ Cents (\$_____)	4 EA	\$_____
D-705-5.1	<b><u>6" PVC Perforated Underdrain Pipe</u></b> , per LF  _____ Dollars and _____ Cents (\$_____)	1300 LF	\$_____

Item No.	Brief Description - Unit or Lump Sum Price (in both words and numerals)	Estimated Quantity	Total Bid Price (in numerals)
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D-705-5.2 **6" PVC Non-Perforated Underdrain Pipe**, per LF  
 \_\_\_\_\_ Dollars and 40 LF  
 \_\_\_\_\_ Cents (\$ \_\_\_\_\_) \$ \_\_\_\_\_

D-705-5.3 **6" Underdrain Endwall**, per EA  
 \_\_\_\_\_ Dollars and 4 EA  
 \_\_\_\_\_ Cents (\$ \_\_\_\_\_) \$ \_\_\_\_\_

**TOTAL BASE BID** \$ \_\_\_\_\_

**NON-AIP ELIGIBLE ITEMS**

P-403-8.1 **Asphalt Mixture Surface Course** per Ton  
 \_\_\_\_\_ Dollars and 350 TON  
 \_\_\_\_\_ Cents (\$ \_\_\_\_\_) \$ \_\_\_\_\_

**TOTAL NON-AIP ELIGIBLE** \$ \_\_\_\_\_

**TOTAL BASE AND NON-AIP** \$ \_\_\_\_\_

**NOTE: In the event of a bidder's mathematical error in tabulating any bid prices, the written unit price shall govern. Selection of the lowest bidder will be based on the calculated total of all items as written in words.**

## **NOTICE TO BIDDERS**

**It is REQUIRED that all forms within this section be completed by all bidders. The forms within other sections shall be utilized by the apparent low bidder ONLY after being requested to provide by the Sponsor.**

**In lieu of a Bid Bond form, a certified bankers' check will be accepted as an alternative form of payment. The Bid Bond form may be photocopied as long as it retains the original format. Attachments to the completed bond forms are acceptable.**

**BID BOND**

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned

\_\_\_\_\_  
as Principal, and \_\_\_\_\_  
as Surety, are hereby held and firmly bound unto Town of Norwood, Massachusetts as OWNER  
in the penal sum of \_\_\_\_\_ for the payment of  
which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and  
assigns.

Signed, this \_\_\_\_\_ day of \_\_\_\_\_, 2026. The Condition of  
the above obligation is such that whereas the Principal has submitted to

\_\_\_\_\_ a certain Bid, attached hereto and hereby  
made a part hereof to enter into a contract in writing, for:

**Airport Improvements to Include:**

**Runway 17-35 Extension  
Norwood Memorial Airport, Norwood MA  
AIP Project No. 3-25-0037-XXX-2026  
Contract #NAC-26-01**

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a Bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year set forth above.

\_\_\_\_\_  
Principal (L.S.)

\_\_\_\_\_  
Surety

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

IMPORTANT - Surety companies must be authorized to transact business in the State of Massachusetts

## Certificate of Buy American Compliance for Manufactured Products

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (✓) or the letter “X”.

- Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:
- a) Only installing steel and manufactured products produced in the United States;
  - b) Installing manufactured products for which the Federal Aviation Administration (FAA) has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
  - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
  2. To faithfully comply with providing U.S. domestic product.
  3. To furnish U.S. domestic product for any waiver request that the FAA rejects
  4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
- The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
1. To submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that supports the type of waiver being requested.
  2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
  3. To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the FAA.
  4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

### Required Documentation

**Type 3 Waiver** – The cost of the item components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “item”. The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).

- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “item” component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

**Type 4 Waiver** – Total cost of project using U.S. domestic source product exceeds the total project cost using non-domestic product by 25 percent. The required documentation for a Type 4 of waiver is:

- a) Detailed cost information for total project using U.S. domestic product
- b) Detailed cost information for total project using non-domestic product

**False Statements:** Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

\_\_\_\_\_

Date

\_\_\_\_\_

Signature

\_\_\_\_\_

Company Name

\_\_\_\_\_

Title

## A21 TAX DELINQUENCY AND FELONY CONVICTIONS

### A21.1 SOURCE

Section 8113 of the Consolidated Appropriations Act, 2022 (P.L. 117-103) and similar provisions in subsequent appropriations acts.

DOT Order 4200.6 – Appropriations Act Requirements for Procurement and Non-Procurement Regarding Tax Delinquency and Felony Convictions

### A21.2 MODEL CERTIFICATION CLAUSE

#### CERTIFICATION OF OFFEROR/ BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (ū) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

#### Certifications

- 1) The applicant represents that it is (  ) is not (  ) a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- 2) The applicant represents that it is (  ) is not (  ) a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

#### Note

If an applicant responds in the affirmative to either of the above representations, the applicant is ineligible to receive an award unless the Sponsor has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the owner about its tax liability or conviction to the Owner, who will then notify the FAA Airports District Office, which will then notify the agency's SDO to facilitate completion of the required considerations before award decisions are made.

#### Term Definitions

**Felony conviction:** Felony conviction means a conviction within the preceding twenty four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. Code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 USC § 3559.

**Tax Delinquency:** A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that

is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

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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.

Upon completion of topsoil stripping, and prior to additional excavation and embankment, the Contractor shall be responsible for obtaining field elevation of the project area utilizing a professional, registered land surveyor acceptable to the Engineer. The Contractor shall submit copies of the survey data to the Engineer to establish a theoretical pay line. The theoretical pay line will then be utilized as the basis of determining Unclassified Excavation and Excavation to Embankment.

**152-1.2 Classification.** All material excavated shall be classified as defined below:

- a. **Unclassified excavation.** Unclassified excavation shall consist of topsoil stripping and the excavation and disposal of all material, and hauling off-site regardless of its nature which is not otherwise classified and paid for under one of the following items. There is no on-airport storage available for this item.
- b. **Rock excavation.** Rock excavation shall include all solid rock in ledges, in bedded deposits, in unstratified masses, and conglomerate deposits which are so firmly cemented they cannot be removed without blasting or using rippers. All boulders containing a volume of more than 1/2 cubic yard (0.4 m<sup>3</sup>) will be classified as “rock excavation.”
- c. **Excavation to Embankment.** Excavation to embankment shall consist of the excavation, hauling and placement of on-site material required for the construction of embankment.
- d. **Borrow excavation.** Borrow excavation shall consist of approved material required for the construction of embankments or for other portions of the work in excess of the quantity of usable material available from required excavations. Borrow material shall be obtained from areas designated by the Resident Project Representative (RPR) within the limits of the airport property but outside the normal limits of necessary grading, or from areas outside the airport boundaries.

**152-1.3 Unsuitable excavation.** Unsuitable material shall be disposed of off airport boundaries, in accordance to all local, state and federal requirements. 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 Contractor shall stake the limits of construction and the area shall be completely 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 by the Contractor off of airport property. 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 in which 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, in order to loosen and pulverize the soil. Stones or rock fragments larger than 4 inches 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 will be permitted as directed by the RPR and in accordance with the following:

Blasting will be permitted only when proper precautions are taken for the safety of all persons, work, and property. All damage done to the work or property shall be repaired by the Contractor. The cost of repair is incidental to this item. All operations of the Contractor in connection with the transportation, storage, and use of explosives shall conform to all federal, state and local regulations and explosive manufacturers' instructions, with applicable approved permits reviewed by the RPR. Any approval will not relieve the Contractor of their responsibility in blasting operations.

Where blasting is approved, the Contractor shall employ a vibration consultant, approved by the RPR, to advise on explosive charge weights per delay and to analyze records from seismograph recordings. The seismograph shall be capable of producing a permanent record of the three components of the motion in terms of particle velocity, and in addition shall be capable of internal dynamic calibration.

In each distinct blasting area, where pertinent factors affecting blast vibrations and their effects in the area remain the same, the Contractor shall submit a blasting plan of the initial blasts to the RPR for approval. This plan must consist of hole size, depth, spacing, burden, type of explosives, type of delay sequence, maximum amount of explosive on any one delay period, depth of rock, and depth of overburden if any. The maximum explosive charge weights per delay included in the plan shall not be increased without the approval of the RPR.

The Contractor shall keep a record of each blast: its date, time and location; the amount of explosives used, maximum explosive charge weight per delay period, and, where necessary, seismograph records identified by instrument number and location.

Blasting and explosive storage shall be in accordance with Section 70, paragraph 70-09 and all federal, state, and local safety regulations.

These records shall be made available to the RPR on a monthly basis or in tabulated form at other times as required.

**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.

The grade shall be maintained so that the surface is well drained at all times. When necessary, temporary drains and drainage ditches shall be installed to intercept or divert surface water that may affect the work.

**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 turfing shall be excavated to a minimum depth of 12 inches, or to the depth specified by the RPR, below the subgrade. Muck, peat, matted roots, or other yielding material, unsatisfactory for subgrade foundation, shall be removed to the depth specified. Unsuitable materials shall be disposed off the airport. The cost is incidental to this item. This excavated material shall be paid for at the contract unit price per cubic yard (per cubic meter) for muck 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 someone other than the Contractor. All existing foundations shall be excavated at least 2 feet 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.**

There are no borrow sources within the boundaries of the airport property. The Contractor shall locate and obtain borrow sources, subject to the approval of the RPR. The Contractor shall notify the RPR at least 30 days prior to beginning the excavation so necessary measurements and tests can be made by the

RPR. 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 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 and shall then be compacted per paragraph 152-2.10.

Where embankments are to be placed on natural slopes steeper than 3 to 1, horizontal benches shall be constructed as shown on the plans.

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 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 nor more than 12 inches 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 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.

The material in each lift shall be within 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. Should the material be too wet to permit proper compaction or rolling, all work on all of the affected portions of the embankment shall be delayed until the material has dried to the required moisture content. Sprinkling of dry material to obtain the proper moisture content shall be done with approved equipment that will sufficiently distribute the water. Sufficient equipment to furnish the required water shall be available at all times.

The Contractor shall make the necessary corrections and adjustments in methods, materials or moisture content to achieve the specified embankment density.

The RPR 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 D 1557. A new Proctor shall be developed for each soil type based on visual classification.

Density tests will be taken by the Contractor every 500 cubic yards of compacted embankment for each lift which is required to be compacted, or other appropriate frequencies as determined by the RPR. Based on these tests, the Contractor shall make the necessary corrections and adjustments in methods, materials or moisture content in order to achieve the correct embankment density. If nuclear density machines are to be used for density determination, the machines shall be calibrated in accordance with ASTM D 2922. The nuclear equipment shall be calibrated using blocks of materials with densities that extend through a range representative of the density of the proposed embankment material.

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 percent of maximum density for non-cohesive soils, and 90 percent of maximum density for cohesive soils as determined by ASTM D 1557. Under all areas to be paved, the embankments shall be compacted to a as indicated in the table below. Soil density shall be determined by ASTM D 1557. 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.

Design Aircraft and Weight	Non-Cohesive Soil (Depth of Compaction in Inches)			
	100%	95%	90%	85%
Single Wheel	100%	95%	90%	85%
30,000 Lbs.	8"	8-18"	18-32"	32-44"

On all areas outside of the pavement areas, no compaction will be required on the top 4 inches which shall be prepared for a seedbed in accordance with Item T-901.

The in-place field density shall be determined in accordance with ASTM D1556 or ASTM D 2167. 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 in their greatest dimensions will not be allowed in the top 12 inches 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 leveling equipment and by distribution of spalls and finer fragments of rock. The lift shall not be constructed above an elevation 4 feet below the finished subgrade.

There will be no separate measurement of payment for compacted embankment. All costs incidental to placing in lifts, compacting, discing, watering, mixing, sloping, and other operations necessary for construction of embankments will be included in the contract price for excavation, borrow, or other items.

**152-2.10 Compaction requirements.** The subgrade under areas to be paved shall be compacted to a depth of 12 inches 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 and to a density of not less than 95 percent of the maximum density as determined by ASTM D1557.

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 D1557. Tests for moisture content and compaction will be taken at a minimum of **500** 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. 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-compact, 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. Its cost shall be considered by the Contractor and included 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-compact 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 +/- 0.5 inch when tested with a 16-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 16-foot straightedge for the full length of each line on a 50-foot grid.
- b. **Grade.** The grade and crown shall be measured on a 50-foot grid and shall be within +/-0.05 feet 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 proper and 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 within 400 feet of runway pavement or 100 feet of taxiway pavement or 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** The quantity of unclassified or rock excavation to be paid for shall be the number of cubic yards 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. All excavated material shall be hauled offsite

**152-3.2** The quantity of Excavation to Embankment shall be measured by the in place cubic yard as computed by the average end area method. The end area is that bound by the theoretical pay line established by field cross sections after the stripping of topsoil and the final as-constructed pay line established by the Engineer after completion of all excavation operations. Measurement shall include the excavation, hauling and embankment construction, as a single pay item.

**152-3.5** For payment specified by the cubic yard, measurement for all excavation and embankment shall be computed by the average end area method. 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 Engineer. After completion of all excavation/embankment operations and prior to the placing of base or subbase material, the final excavation/embankment shall be verified by the Engineer by means of field cross sections taken randomly at intervals not exceeding 500 linear feet.

Final field cross sections shall be employed if the following changes have been made:

- a. Plan width of embankments or excavations are changed by more than plus or minus 1.0 foot; or
- b. Plan elevations of embankments or excavations are changed by more than plus or minus 0.5 foot.

### BASIS OF PAYMENT

**152-4.1** For "Unclassified Excavation" payment shall be made at the contract unit price per cubic yard. This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item and shall include the removal, hauling, of material.

**152-4.2** For "Excavation to Embankment" payment shall be made at the contract unit price per cubic yard. This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item and shall include the removal, hauling and stockpiling of material.

**152-4.3** For "Rock Excavation" payment shall be made at the contract unit price per cubic yard. This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item and shall include the removal, hauling, of material.

Payment will be made under:

Item P-152-4.1 Unclassified Excavation—per cubic yard

Item P-152-4.2 Excavation to Embankment—per cubic yard

Item P-152-4.3 Rock Excavation—per cubic yard

### 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 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/ft<sup>3</sup> (2700 kN-m/m<sup>3</sup>))

**END OF ITEM P-152**

**125-4.4 Runway End Light Base Mounted L-861E.** The quantity of runway end lights to be paid for under this item shall be the number of each type installed, complete and in place, ready for operation, and accepted by the Engineer.

**125-4.5 Taxiway Edge Light Base Mounted L-861T.** The quantity of taxiway edge lights to be paid for under this item shall be the number of each type installed, complete and in place, ready for operation, and accepted by the Engineer.

**125-4.6 Runway Threshold Light – In Pavement L-850.** The quantity of runway threshold lights (in-pavement) to be paid for under this item shall be the number of each type installed, complete and in place, ready for operation, and accepted by the Engineer.

**125-4.7 Change Runway Edge Light Lens.** The quantity of change runway edge light lens to be paid for under this item shall be the number of each type installed, complete and in place, ready for operation, and accepted by the Engineer.

#### BASIS OF PAYMENT

**125-5.1** Payment will be made at the Contract unit price for each item installed by the Contractor and accepted by the RPR. This payment will be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

Payment will be made under:

Item L-125-5.1	Runway Edge Light Base Mounted L-861– per each
Item L-125-5.2	MALS System Modifications – lump sum
Item L-125-5.3	L-893 Lighted Runway Closure Markers – per each
Item L-125-5.4	Runway End Light Base Mounted L-861E – per each
Item L-125-5.5	Taxiway Edge Light Base Mounted L-861T – per each
Item L-125-5.6	Runway Threshold Light – In Pavement L-850 – per each
Item L-125-5.7	Change Runway Edge Light Lens – per each

#### 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 150/5340-18	Standards for Airport Sign Systems
AC 150/5340-26	Maintenance of Airport Visual Aid Facilities
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-5	Circuit Selector Switch
AC 150/5345-7	Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits
AC 150/5345-26	Specification for L-823 Plug and Receptacle, Cable Connectors

# VARIANCE PERMIT



Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker  
Governor

Karyn E. Polito  
Lieutenant Governor

Bethany A Card  
Secretary

Martin Suuberg  
Commissioner

July 27, 2022

Mr. Mark Ryan, Norwood Airport Commission  
Norwood Memorial Airport  
111 Access Road Building 9  
Norwood, MA 02062

RE: Norwood Memorial Airport Taxiway C Realignment and Runway Safety Area Project  
Norwood, Massachusetts

Wetlands Variance for M.G.L. Chapter 131, Section 40 and 310 CMR 10.00  
MassDEP File # 251-0528

Water Quality Certification for M.G.L. Chapter 21, Section 27 and 314 CMR 9.00  
MassDEP Transmittal No. X288536; Application for BRP WW 10 – Major Project.  
Certification

Dear Mr. Ryan:

Please find enclosed MassDEP's Decision on your request for a Variance of certain provisions of the Wetlands Protection Act Regulations and for a Water Quality Certification in Norwood, MA for the Norwood Memorial Airport Taxiway C Realignment and Runway Safety Area Project. Following a thorough review of the submitted information, I hereby issue the attached Wetlands Protection Act Variance in accordance with 310 CMR 10.05(10) and a Water Quality Certification in accordance with 314 CMR 9.00.

Sincerely,



Martin Suuberg  
Commissioner

This information is available in alternate format. Contact Glynis Bugg at 617-348-4040.  
TTY# MassRelay Service 1-800-439-2370  
MassDEP Website: [www.mass.gov/dep](http://www.mass.gov/dep)

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## **WETLANDS PROTECTION ACT VARIANCE DECISION AND WATER QUALITY CERTIFICATION**

### **A. Project Description**

The Norwood Airport Commission (Applicant or Airport) requests a Variance Order of Conditions for the proposed Norwood Memorial Airport Taxiway C Realignment and Runway Safety Area Project (Project). The proposed activities include realigning a portion of Taxiway C to remove direct connection from the apron area to Runway 17/35 in accordance with Federal Aviation Administration (FAA) design criteria (Advisory Circular 150/5300-13A). The proposed activities also include the paving of the Runway Safety Areas associated with Runway 17/35.

The Norwood Memorial Airport is a public-use general aviation “reliever” airport owned and operated by the Town of Norwood, providing aviation facilities for numerous services including business, flight training, medical evacuations, law enforcement, military and homeland security support, weather and news reporting, and recreational aviation. The Airport is considered one of four reliever airports where use is encouraged by FAA to reduce congestion at Logan Airport.<sup>1</sup> The Airport is the home base for 165 aircraft year-round, and accommodates on average 60,000 take-offs and landings each year.<sup>2</sup> The Airport was constructed in wetland/floodplain areas in the 1940’s and is located within the limits of the Fowl Meadow and Ponkapoag Bog Area of Critical Environmental Concern (ACEC) designated on August 20, 1992 pursuant to 301 CMR 12.00 by the Secretary of Energy and Environmental Affairs.

Currently, Taxiway C begins at the terminal area apron and runs easterly until it reaches Taxiway F where it turns and parallels Runway 10/28. The geometry of Taxiway C is nonstandard according to FAA Advisory Circular (AC) 150/5300-13A Airport Design and creates an unsafe situation where aircraft leaving the apron have direct access to the intersection of Runway 17/35, increasing the possibility of an incursion into an active runway or its surfaces. Relocating Taxiway C to meet FAA standards decreases the potential for runway incursions and increases overall operational safety at the Airport. The Norwood Airport Commission proposes the following improvements to address safety at the Airport:

- The partial realignment of Taxiway C includes relocating approximately 1,350-feet by shifting the angle within the current Taxiway C configuration 800 linear -feet to the west. A new 800-foot by 35-foot segment of Taxiway C would extend west of Taxiway F parallel to Runway 10/28. A second 360-foot by 35-foot segment would extend between Runway 17-35 and Taxiway A.
- The paving of two 100-foot by 300-foot sections Runway Safety Areas associated with Runway 17/35. The proposed lengthening of Runway 17/35 is 600 feet.

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<sup>1</sup> November 16, 2021 Norwood Memorial Airport Taxiway C and Runway Safety Area Project Variance Application (“Variance Application”) Project Narrative Page 6.

<sup>2</sup> [http://www.norwoodma.gov/departments/Airport/faq\\_s.php](http://www.norwoodma.gov/departments/Airport/faq_s.php)

## **B. Procedural History**

The procedural history includes a Massachusetts Environmental Policy Act (MEPA) review, an Order of Conditions (OOC) from the Norwood Conservation Commission denying the Project, and a Superseding Order of Conditions (SOC) from Massachusetts Department of Environmental Protection (MassDEP) Southeast Regional Office (SERO) denying the Project.

### *MEPA*

The Massachusetts Secretary of Energy and Environmental Affairs, having determined that the Applicant's Final Environmental Impact Report (FEIR) submitted for the Norwood Memorial Airport Taxiway C Realignment and Runway Safety Area Project adequately and properly complies with the Massachusetts Environmental Policy Act (MEPA), issued the Applicant a Certificate on August 16, 2021.

### *Wetlands Protection Act*

On August 16, 2021, the Norwood Airport Commission filed a Notice of Intent (NOI) for the Norwood Memorial Airport Taxiway Realignment Project with the Town of Norwood Conservation Commission (DEP File No. 251-0528) under the Massachusetts Wetlands Protection Act (WPA), M.G.L. c. 131, § 40 and its implementing regulations at 310 CMR 10.00. A public hearing was closed on September 15, 2021 and an OOC denying the Project was issued on September 24, 2021.

On September 29, 2021, the Applicant appealed to MassDEP requesting a Superseding Order of Conditions. MassDEP SERO responded with a Superseding Order of Conditions denying the Project due to noncompliance with the Wetland Protection Act. The proposed project is noncompliant with performance standards 310 CMR 10.55(4)(b) for greater than 5000 square feet of loss of Bordering Vegetated Wetlands (BVW), 310 CMR 10.55(4)(e) for impairment to BVW within an Area of Critical Concern, and 310 CMR 10.57(4)(a)3 for greater than 5000 square feet of alteration to Bordering Land Subject to Flooding (BLSF) significant to wildlife habitat.

### *WPA Variance Public Process*

On November 16, 2021, the Norwood Airport Commission submitted a WPA Variance request pursuant to 310 CMR 10.05(10). A public notice was published in the Environmental Monitor on December 8, 2021 followed by a MassDEP-convened public hearing on December 20, 2021. Ten individuals attended the public hearing including MassDEP, the Federal Aviation Administration, the Applicant, and their consultants. No written comments were received prior to the public comment period closing on January 10, 2022.

MassDEP requested additional information on February 3, 2022. The Applicant's designee provided a response on March 1, 2022. Additional information was requested by MassDEP on March 10, March 31, and April 1 with responses received on March 22, April 1, and April 8, 2022, respectively. All responsive submittals are listed in Appendix A.

## *Water Quality Certification (WQC) Public Process*

On November 15, 2021, the Applicant filed an application for a Water Quality Certification (WQC) pursuant to M.G.L. c. 21, § 27 and its implementing regulations at 314 CMR 9.00. The WQC application was assigned Transmittal Number X288536. The Applicant indicated that an individual WQC is required pursuant to 314 CMR 9.04(1) because the Project will result in the loss of more than 5,000 square feet of BVW. A notice of 401 WQC Request, comment period, and public hearing were published and processed simultaneously with the WPA Request for Variance, notice, comment period and public hearing.

### **C. Project Impacts**

Project impacts related to the Wetland Protection Act and the 401 Water Quality Certification are listed below.

#### *WPA and Regulations (M.G.L. c. 131, § 40, 310 CMR 10.00)*

The proposed activities will result in the loss of BVW north of the existing Taxiway C and southeast of where Runway 17-35 and Runway 10-28 intersect. The BVW loss exceeds the 5,000 square feet limit of alteration allowed by WPA regulations. Additionally, the BVW proposed to be altered is within the Fowl Meadow and Ponkapoag Bog ACEC. BVW within an ACEC cannot be destroyed or impaired for the proposed activity without a Variance, in accordance with the WPA regulations (310 CMR 10.55(4)(e)). The BVW contains wildlife habitat suitable for small mammals, amphibians, reptiles, and birds. The habitat characteristics are critical because the location contains food sources, dense herbaceous cover, standing water for part of the growing season, and is connected to a larger wetland complex.

The proposed activities will also result in the loss of BLSF north of the existing Taxiway C and at both Runway Safety Areas. The site is located within BLSF of the Neponset River and is almost completely inundated during the 100-year flood. All areas on the Project below Elevation 47.25 feet North American Vertical Datum (NAVD) and beyond the limits of BVW are located within BLSF, based on the most recently available flood profile data prepared by the Federal Emergency Management Agency (FEMA).<sup>3</sup> MassDEP has presumed the FEMA flood profile is accurate to define the extent of BLSF in accordance with the provisions specified at 310 CMR 10.57(2)(a)3. The amount of BVW and BLSF impacts and thresholds pursuant to 310 CMR 10.00 are shown in Table 1. Land Under Water (LUW) impacts are also shown.

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<sup>3</sup> FEMA Flood Profile 146P (Neponset River) contained in Flood Insurance Study for Norfolk County, Massachusetts, dated July 6, 2021. On the Flood Profile, the site's 100-year flood elevation is 47.25 feet NAVD since it is located between Cross Section I (flood elevation 47.2 feet NAVD) and J (flood elevation 47.3 feet NAVD). The FEMA Flood Profile is used to determine the extent of BLSF pursuant to 310 CMR 10.57(2)(a)3.

Table 1 – Wetland Protection Act Alterations and Thresholds

Resource Area	Permanent Alteration	Temporary Alteration	Total Alteration	Regulation Threshold Exceeded
Bordering Vegetated Wetlands, 310 CMR 10.55 (BVW)	31,045 square feet	3,610 square feet	34,655 square feet	310 CMR 10.55(4)(b): Project proposes to alter greater than 5,000 square feet of BVW  310 CMR 10.55(4)(e): Project proposes to destroy or impair BVW within an Area of Critical Environmental Concern designated per 301 CMR 12.00
Bordering Land Subject to Flooding, 310 CMR 10.57 (BLSF) <sup>1</sup>	386,972 square feet (4,399 cubic yards)	0 square feet (0 cubic yards)	386,972 square feet (4,399 cubic yards)	Impairs > 5000 square feet of BLSF and its capacity to provide important wildlife habitat functions
Land Under Water	123 square feet	0 square feet	123 square feet	No regulated threshold

<sup>1</sup> – The footprint of the work in Bordering Land Subject to Impact is calculated in square feet. The impacts are provided in cubic yards for compensatory storage calculations.

Work within the perennial waterway Riverfront area includes approximately 86,484 square feet. This includes the proposed new runway alignment along with the old alignment removal. The total impervious area increases from 14,241 square feet to 18,592 square feet equal to a net gain of 4,355 square feet within the Riverfront Area.

In relation to the Massachusetts Stormwater Management Standards, the Project proposes 1.96-acre increase in impervious area within the Project boundary from 1.53 acres to 3.49 acres. Additionally, the Project proposes to redevelop the existing 1.53-acre impervious area. This pavement expansion will increase the paved runoff volume the Airport directs to wetland resource areas by approximately 356,281 cubic feet<sup>4</sup> on an average annual basis. The stormwater runoff directed to the wetlands on site drains to the Neponset River. The Neponset River lists multiple

<sup>4</sup> Based on the average annual precipitation of 50.08-inches per year for Norwood, derived from the 1981-2010 climate normal data prepared by the PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>

impairments<sup>5</sup> in the *Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle*.

No Estimated Habitats of Rare Wildlife have been mapped within the Project area according to the 15<sup>th</sup> Edition Natural Heritage Atlas published by the Massachusetts Natural Heritage & Endangered Species Program (MNHESP).

*Water Quality Certification (314 CMR 9.00)*

The alterations of BVW under Water Quality Certification regulations are the same as those described under the Wetlands Protection Act regulations and described in the section above for BVW, since the state and federal wetland boundaries are concurrent.<sup>6</sup> The amount of wetland alteration and the wetland thresholds exceeded pursuant to 314 CMR 9.00 is set forth in Table 2.

There are no isolated vegetated wetlands in the vicinity of the Project.

*Table 2 - Water Quality Certification Alteration and Threshold*

<b>Wetlands Resource Area</b>	<b>Permanent Alteration</b>	<b>Temporary Alteration</b>	<b>Total Alteration</b>	<b>401 Regulation Threshold Exceeded</b>
Bordering Vegetated Wetlands	31,045 square feet	3,610 square feet	34,655 square feet	No regulated threshold

Certified Vernal Pools are designated as Outstanding Resource Waters (ORWs) in accordance with the Massachusetts Surface Water Quality Standards (310 CMR 4.00), and any activity that results in any discharge of dredged or fill material to a vernal pool certified by the Division of Fisheries and Wildlife requires a Variance pursuant to 314 CMR 9.06(4). The Applicant states that there are seven potential vernal pools on the Airport property, but none are in the vicinity of the Project area. Applicant states that there are no Certified Vernal Pools within the Project area.<sup>7</sup>

**D. Discussion and Findings on the Request for Variance**

The procedures and standards for obtaining a Variance from the Wetlands Regulations are outlined at 310 CMR 10.05(10)(a) and provide, in part, that:

The Commissioner may waive the application of certain portions of the regulation(s) when [the Commissioner] finds, after opportunity for a public hearing, that:

<sup>5</sup> DDT in fish tissue, dissolved oxygen, Escherichia coli, fecal coliform, flocculant masses, metals, oil and grease, PCBs in fish tissue, scum / foam, trash, turbidity, and unspecified metals in sediment.

<sup>6</sup> Variance Application, Section 2.1.

<sup>7</sup> Variance Application, Figure 5.

- (1) there are no reasonable conditions or alternatives that would allow the Project to proceed in compliance with the regulations;
- (2) mitigating measures are proposed that will allow the Project to be conditioned so as to contribute to the protection of the interests identified in the Wetlands Act; and
- (3) the Variance is necessary to accommodate an overriding community, regional, state or national public interest.

The procedures and standards for obtaining a Water Quality Certification are outlined in 314 CMR 9.00, with the *Criteria for the Evaluation of Applications for Discharge of Dredged or Fill Material* outlined in 314 CMR 9.06.

### *Alternatives Analysis*

Under 310 CMR 10.05(10)(b)(1), a request for Variance must include a “description of alternatives explored that would allow the Project to proceed in compliance with 310 CMR 10.21 through 10.60 and an explanation of why each is unreasonable.” Under 314 CMR 9.06(1), “No discharge of dredged or fill material shall be permitted if there is a practicable alternative to the proposed discharge that would have less adverse impact on the aquatic ecosystem, so long as the alternative does not have other significant adverse environmental consequences.”

Project design alternatives were evaluated by the Applicant and submitted in the Application. The alternatives analysis was undertaken for the proposed project as part of the MEPA/NEPA EIR/EA process dating back to 2014 involving many iterations and options for realigning Taxiway C to meet FAA standards of improved safety at the Airport. The final alternatives analysis as presented in the Variance Application<sup>8</sup> presented no practicable alternatives at the Airport that would meet the Project’s purpose and needs of the community and could be constructed in compliance with the WPA regulatory standards. Impact minimization was achieved to the extent practicable.

Therefore, MassDEP finds that there are no reasonable alternatives that would allow the Project to proceed in compliance with the WPA regulations, or practicable alternatives that would have less impact than the selected alternative.

### *Mitigation*

Under 310 CMR 10.05 (10)(b)2., a request for Variance shall include “a description of the mitigating measures to be used to contribute to the protection of the interests identified in M.G.L. c. 131, § 40.” The regulation at 314 CMR 9.06(2)(a) requires a minimum of 1:1 restoration or replication for all discharges to BVW.

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<sup>8</sup> Variance Application, Section 8.0

BVW loss from the proposed filling is approximately 31,045 square feet and will be mitigated with 62,090 square feet via replication at a 2:1 ratio as described in Section 8 and Attachment F of the Variance Application. The proposed BVW replication area has been designed in accordance with the performance standards found at 310 CMR 10.55(4)(b) and is expected to therefore function in a manner similar to the area lost.

Proposed filling will impact 386,972 square feet (8.9 ac) of BLSF. A detailed cut/fill analysis is included in the Variance Application Section 9.3. Compensatory flood storage will be provided in two locations. The first location is proximate to the existing wetland replication area just east of Runway 35. This area will provide compensatory flood storage at the higher elevations above elevation 43 feet NAVD. The second area is located adjacent to the wetland replication area proposed as part of this project and will also serve (in part) to replicate the lower floodplain important wildlife habitat functions which are being lost. The combined compensatory storage locations will compensate for all lost flood storage volume at a volume not previously used for flood storage. Furthermore, the compensatory storage is incrementally equal to the volume of flood water at each elevation, up to and including the 100-year flood elevation.

The impervious area proposed for development includes 152,114 square feet (3.49 acres). This includes new development of approximately 85,288 square feet (1.96 acres) and redevelopment of 66,826 square feet (1.53 acres). The Massachusetts Stormwater Management Standards require that a redevelopment Project meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 to the maximum extent practicable. A redevelopment Project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions. Project design specifics relevant to stormwater were submitted in the Stormwater Report, Long Term Pollution Prevention Plan, Stormwater Operation and Maintenance Plan, certification that there are no illicit discharges, and draft Stormwater Pollution Prevention Plan were submitted. Following a review of the submitted documents, MassDEP finds that the proposed Project fully meets stormwater standards 310 CMR 10.05(6)(k)1, 5, 8, 9, and 10. Standards 2, 4, and 7 are met to the extent practicable and are further mitigated-through the installation of a sand filter and sediment forebay at the 111 Access Road Airport Parking Lot referred to as Stormwater Mitigation Area 1 in the Stormwater Report. This additional mitigation results in Standards 2 and 4 being fully met. Standards 3 and 7 are fully met through the installation of a subsurface infiltration chamber at the F.A. Cleveland School referred to as Stormwater Mitigation Area 2 in the Stormwater Report. Stormwater Standard 6 is not applicable to the Project. Thus, the proposed Project intends to fully meet the Stormwater Management Standards for areas classified as new development and proposes to meet the Stormwater Management Standards to the Maximum Extent Practicable and provide improvements to offsite stormwater management systems for the areas classified as redevelopment. Furthermore, the Applicant used the National Oceanic and Atmospheric Administration (NOAA) 14 precipitation depth's upper confidence multiplied by 0.9 (i.e. the MassDEP proposed "NOAA 14 PLUS") for all stormwater calculations. NOAA 14 PLUS accounts for uncertainty in extreme precipitation

represented by larger currently observed storms documented in the NOAA14 Atlas. MassDEP notes that the project will be more resilient as a result of this design effort.

In addition to permanent impacts that require mitigation, the Project also proposes temporary impacts. All temporary Resource Area alterations must be restored immediately following completion of construction as conditioned by this Variance Decision and Water Quality Certification.

MassDEP finds that mitigating measures are proposed that will allow the Project, as conditioned by this Variance, to contribute to the protection of the interests identified in the WPA

### *Overriding Public Interest*

The purpose of this Project is to enhance the safety of aircraft and passengers using the Airport, specifically, to improve airfield safety and compliance with FAA Advisory Circular 150 / 5300 -13A Airport Design by eliminating direct connections from apron areas to runways, and to meet the runway length needs of existing aircraft using the Airport. In 2020, Norwood Memorial Airport's Technical Master Plan Update (TMPU) re-evaluated Taxiway C options for meeting the aforementioned advisory circular, along with runway length. The TMPU was subsequently reviewed and approved by FAA. The proposed Project details align with the FAA-approved TMPU with regards to public safety improvements.

The proposed improvements at the Airport would enhance safety at the Airport by bringing it into compliance with the aforementioned advisory circular. Therefore, MassDEP finds that the work proposed constitutes an overriding public interest that is required to address safety deficiencies at the Airport in accordance with 310 CMR 10.05(10)(a)3.

## **E. Conclusion**

### *Wetland Protection Act*

For the reasons discussed herein, I conclude the following:

- No reasonable conditions or alternatives will allow the Project to proceed in compliance with 310 CMR 10.21 through 10.60;
- Mitigating measures will allow the Project, as conditioned by this Variance, to contribute to the protection of the interests identified in the WPA;
- A Variance is necessary to accommodate an overriding public interest, specifically that of improving public safety at the Airport.

I hereby vary application of the following performance standards to the Project:

- BVW performance standards at 310 CMR 10.55(4)(a) and (b) (greater than 5000 square feet BVW loss);
- BVW performance standards at 310 CMR 10.55(4)(e) (BVW loss in an ACEC);

- BLSF performance standards at 310 CMR 10.57(4)(a)3. (Impairment > 5000 square feet of important wildlife habitat in BLSF).

The Applicant proposes to provide BVW replacement at a 2:1 mitigation-to-impact ratio, sufficient flood storage to offset BLSF volume loss at the same elevation, stormwater control measures to reduce the peak runoff rate, and sufficient stormwater treatment / recharge. I find that the mitigation requirements of this Variance along with the further measures conditioned herein will compensate for unavoidable Project impacts and contribute to the protection of the interests identified in the Act. As such, I grant a Variance Permit complying with the Wetlands Protection Act.

#### *Water Quality Certification*

For the reasons discussed herein, and as conditioned by this WQC, I conclude the following:

- All reasonable measures have been proposed to minimize, avoid, and mitigate adverse effects on the environment
- A variance is necessary to accommodate an overriding public interest, specifically that of improving public safety at the airport.

Further, the Project is designed to comply with the stormwater management standards at 314 CMR 9.06(6)(a) for redevelopment of existing paved surfaces and development of new paved surfaces with the inclusion of the proposed stormwater control measures. In addition, nonstructural controls will be implemented through the Airport's industrial Stormwater Pollution Prevention Plan which will serve as the site's Long Term Pollution Prevention Plan.

For reasons discussed, I hereby grant a WQC. Except as provided by this WQC, and associated General and Special Conditions, I certify that the Project, as conditioned in Appendix D, is reasonably assured to meet applicable water quality standards and minimize environmental impacts through compliance with 314 CMR 4.00 as implemented and supplemented by 314 CMR 9.00.

#### *Findings Pursuant to M.G.L. c. 30, § 61*

The Project's mitigation for environmental impacts is described in Section C and Section D, respectively, of this Variance Decision and WQC. The MEPA Certification dated August 16, 2021 requires construction of wetland mitigation, provision of compensatory flood storage, construction of a new stormwater management system adjacent to the taxiways and in the Airport parking lot, and the use of best management practices during and after construction for erosion and sediment control and additional construction period measures. The environmental impacts were assessed according to an alternatives analysis that implemented a design requiring minimized wetland impacts, construction of a BVW replacement area that provides a 2:1 mitigation to impact ratio, construction of adequate compensatory flood storage, restoration of temporary BLSF impacts / mitigation, construction of stormwater best management practices, and conditioning to require invasive species management. Implementation of the mitigation measures

must occur in compliance with the Terms and Conditions set forth in this Variance Decision and WQC. With the mitigation proposed and required by the General and Special Conditions of this Variance Decision and WQC, I find that the Project incorporates all feasible means and measures to avoid and minimize adverse environmental impacts.

In the issuance of this Variance Decision and WQC, MassDEP has considered reasonably foreseeable climate change impacts, including sea level rise. As such, the Applicant performed all stormwater runoff calculations using the National Oceanic and Atmosphere Administration Atlas 14 Plus precipitation depth. The findings for the Norwood Memorial Airport Taxiway Realignment Project have been prepared in accordance with the provisions of M.G.L. c. 30, § 61 and 301 CMR 11.00. On August 26, 2021, following the submittal of a Final Environmental Impact Report, the Massachusetts Secretary of Environmental Affairs determined that the Applicant adequately and properly complied with MEPA and issued the Applicant a Certificate (EEA # 15208). The Airport was not required to prepare a Greenhouse Gas (GHG) analysis in connection with the original project because the project is limited to the realignment of taxiways and paving of Runway Safety Areas and does not result in new stationary sources of GHG emissions. As requested by the Scope, the Single EIR provided an updated review of the airport's on-going efforts to minimize GHG emissions. GHG mitigation strategies currently employed at the airport include: installation of LED lights; use of motion sensors on lights; participation in the FAA's Voluntary Airport Low Emissions (VALE) Program; control of idling by aircraft; potential for installation of solar canopies at airport parking lot on Access Road; upgrading airport maintenance vehicles; and completion of energy audits on on-site buildings. The Single EIR also identified recent improvements to town-controlled buildings, including updating the administration offices to current building codes, retrofitting them with translucent walls to allow for daylighting, and installation of a new energy efficient HVAC system. I refer the Airport to comments from the Department of Energy Resources (DOER) which identify strategies for energy efficient buildings that the airport can incorporate on future projects and incentives for implementing them.

Therefore, having reviewed the MEPA filings and documents submitted in connection with the application for MassDEP permits for the Project, including the mitigation measures summarized in Parts C and D of this Variance, I find pursuant to M.G.L. c. 30, § 61 that all practicable and feasible means and measures will be taken to avoid, minimize or mitigate potential damage to the environment from the Project.

#### **F. Appeal Rights and Information**

This decision is subject to appeal of the Wetland Variance (appeal rights for the 401 Water Quality Certification are described in Paragraph I. below).

The Applicant, the landowner, any person who submitted comments during the Variance public comment period, the conservation commission, or any (10) ten residents of the city or town where the land is located, if at least one resident was previously a participant in the Variance proceeding, are hereby notified of their right to appeal this Variance Decision pursuant to M.G.L. c. 30A, provided the request is made by certified mail or hand delivery to the Department, along

with the appropriate filing fee and a MassDEP Fee Transmittal Form within ten (10) business days of the date of issuance of this Variance Decision, and addressed to:

Case Administrator  
Office of Appeals and Dispute Resolution  
Department of Environmental Protection  
One Winter Street, 2<sup>nd</sup> Floor  
Boston, MA 02108

A copy of the request (hereinafter also referred to as Appeal Notice) shall at the same time be sent by certified mail or hand delivery to the Norwood Conservation Commission (NCC), the Applicant, and the issuing office of the MassDEP at:

MassDEP  
Director of Wetlands and Waterways  
One Winter Street  
Boston, MA 02108

The Appeal Notice shall also be served by certified mail or hand delivered on any person that requested the action by the Department that resulted in the Variance Decision. In the event that the entity that requested the action is a ten resident group, the Appeal Notice shall be served on the designated representative of the ten resident group, whose name and contact information shall be included in the Variance Decision.

#### **G. Contents of Wetlands Variance Appeal Notice**

An Appeal Notice of this Wetlands Variance (which is called a notice of claim for an adjudicatory hearing under 310 CMR 1.01) shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6) and the Department's Wetlands Regulations at 310 CMR 10.05(7)(j), which notice shall include, but not be limited to, the following information:

- (a) the MassDEP Wetlands File Number, name of the Applicant, landowner if different from the Applicant, and address of the Project;
- (b) the complete name, mailing address, email address, and fax and telephone numbers of the party filing the Appeal Notice; if represented by consultant or counsel, the name, fax and telephone numbers, email address, and mailing address of the representative; if a ten residents group, the same information for the group's designated representative;
- (c) if the Appeal Notice is filed by a ten (10) resident group, then a demonstration of participation by at least one resident in the Variance proceedings;
- (d) the names, telephone and fax numbers, email addresses, and mailing addresses of all other interested parties, if known;

- (e) a clear and concise statement of the alleged errors contained in the Variance Decision and how each alleged error is inconsistent with 310 CMR 10.00 and does not contribute to the protection of the interests identified in the Wetlands Protection Act, M.G.L. c. 131, section 40, including reference to the statutory or regulatory provisions that the party filing the Appeal Notice alleges has been violated by the Variance Decision, and the relief sought, including any specific desired changes to the Variance Decision;
- (f) a copy of the Variance Decision that is being appealed and a copy of the underlying Conservation Commission Decision and Superseding Order of Conditions;
- (g) a statement that a copy of the Appeal Notice has been sent by certified mail or hand delivery to the Applicant and the conservation commission; and
- (h) if asserting a matter that is Major or Complex, as defined at 310 CMR 10.04, a statement requesting that the Presiding Officer make a designation of Major and Complex, with specific reasons supporting the request.

An Appeal Notice that does not contain all of the information required in 310 CMR 10.05(7)(j)2.b. may be dismissed.

#### **H. Filing Fee and Address**

A copy of the Appeal Notice along with a MassDEP Fee Transmittal Form and a valid check or money order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed to:

Commonwealth of Massachusetts  
Department of Environmental Protection  
Commonwealth Master Lockbox  
P.O. Box 4062  
Boston, MA 02211

The request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver. The filing fee is not required if the appellant is a city or town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file an affidavit setting forth the facts believed to support the claim of undue financial hardship together with the hearing request as provided above.

#### **I. 401 Water Quality Certification Appeal Rights**

No activity may begin prior to the expiration of the twenty-one (21) day appeal period established by 314 CMR 9.10(2), or until a final decision is issued by the Department if an appeal is filed. Section 314 CMR 9.10 grants a right to request an adjudicatory hearing regarding this Water Quality Certification to: the Applicant or property owner; any person aggrieved by the Decision who has submitted written comments during the public comment period; any ten persons of the Commonwealth under M.G.L. c. 30A if a group member has submitted written comments during the public comment period; and any governmental body or private organization with a mandate to protect the environment that has submitted written comments during the public comment period. Any person aggrieved, any ten persons of the Commonwealth, or a governmental body or private organization with a mandate to protect the environment may request a hearing without having submitted written comments during the public comment period only if their request is based on new substantive issues arising from material changes to the scope or impact of the Project which were not apparent at the time of public notice.

Within twenty-one (21) calendar days of the date of this Decision, an adjudicatory hearing request must be postmarked and sent by certified mail, or be hand delivered to:

Case Administrator  
Office of Appeals and Dispute Resolution  
Department of Environmental Protection  
One Winter Street, 2<sup>nd</sup> Floor  
Boston, MA 02108

A copy of the adjudicatory hearing request shall at the same time be sent by certified mail or hand delivery to:

Wetlands Program  
Department of Environmental Protection  
One Winter Street, 5<sup>th</sup> Floor  
Boston, MA 02108

A completed Adjudicatory Hearing Fee Transmittal Form and a valid check or money order payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100) must be mailed separately to:

Commonwealth of Massachusetts  
Department of Environmental Protection  
Commonwealth Master Lockbox  
P.O. Box 4062  
Boston, MA 02211

A *copy* of the MassDEP Fee Transmittal Form and filing fee must be attached to the adjudicatory hearing request sent to the Case Administrator at the address indicated above.

Per 310 CMR 4.06, the hearing request will be dismissed if the \$100 filing fee is not paid, unless the person filing the request is exempt or granted a waiver. The filing fee is not required if the person filing the request is a city, town, county, district of the Commonwealth, federally recognized Indian tribe housing authority effective January 14, 1994, municipal housing authority, or the Massachusetts Bay Transportation Authority (per M.G.L. 161A, section 24). The Department may waive the adjudicatory hearing filing fee for any other person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, along with the hearing request, an affidavit setting forth the facts believed to support their claim of undue financial hardship.

#### *Contents of 401 WQC Appeal Notice*

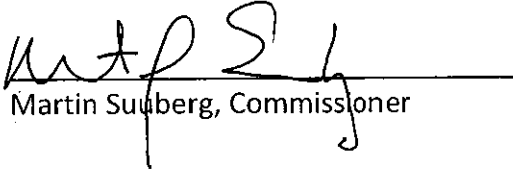
The notice of claim for adjudicatory hearing shall comply with the Department's Rules for Adjudicatory Proceedings, 310 CMR 1.01(6) and 314 CMR 9.10, which request must include, but not be limited to, the following:

- (a) a copy of the Decision being appealed (including the 401 Certification Transmittal Number), and the Wetlands Protection Act File Number, if applicable;
- (b) the complete name of the Applicant and address of the Project;
- (c) the complete name, address, telephone number, fax number and/or email address of the party filing the request;
- (d) the name, address, telephone number, fax number and/or email address of any attorney or other authorized representative of the party filing the request, if applicable;
- (e) the specific facts that demonstrate that a party satisfies the definition of "aggrieved person" within 314 CMR 9.02, if applicable;
- (f) a clear statement that an adjudicatory hearing is being requested;
- (g) a clear and concise statement of (1) the facts which are grounds for the hearing request, (2) the objections to the Decision, including specifically the manner in which it is alleged to be inconsistent with the 401 Water Quality Certification Regulations, 314 CMR 9.00, and (3) the relief sought through the adjudicatory hearing, including specifically the changes desired in the final Certification; and
- (h) a statement that a copy of the request has been sent by certified mail or hand delivered to the Applicant, the owner (if different from the Applicant), the conservation commission of the city or town where the Project will occur, the Department of Conservation and Recreation (when the certification concerns Projects in Areas of Critical Environmental Concern), the public or private water supplier where the Project

is located (when the certification concerns Projects in Outstanding Resource Waters),  
any other entity with responsibility for the resource where the Project is located.

**J. Commissioner Signature and Issuance**

I hereby issue the attached Wetlands Protection Act Variance in accordance with 310 CMR  
10.05(10) and a Water Quality Certification in accordance with 314 CMR 9.00 with the details,  
conditions, and appendices described herein.



Martin Sullberg, Commissioner

ISSUANCE DATE: July 27, 2022

Service List Via Email:

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## APPENDIX A - MATERIALS AND PLANS SUBMITTED

Date	Document
June 15, 2021	Single Environmental Impact Report submitted. The associated MEPA certificate was issued on August 16, 2021.
August 16, 2021	<p>Notice of Intent submitted the Town of Norwood Conservation Commission. A public hearing for the Project closed on September 15, 2021, and an Order of Conditions (OOC) denying the Project was issued on September 24, 2021.</p> <p>Project details were assigned as:            Massachusetts Wetlands Protection Act (M.G.L. c. 131 s.40)            DEP File No. 251-0528            401 Water Quality Certification Application (314 CMR 9.00)            Transmittal No. X288536</p>
September 29, 2021	Superseding Order of Conditions request submitted to MassDEP SERO. SERO responded with a Superseding Order of Conditions denying the Project on November 3, 2021.
November 16, 2021	Request for a Variance Order of Conditions is submitted to MassDEP Boston.
January 10, 2022	Public Notice period ends with no comments received. This followed the public hearing that was conducted on December 20, 2021.
February 28, 2022	Response to the MassDEP Technical Deficiency Letter is submitted along with and Stormwater Report.
February 28, 2022 <b>Final Permitting Plan of Record</b>	Plans entitled, <i>Norwood Memorial Airport: Environmental Permitting TW 'C' Realignment and Runway 17-35 Paved Safety Areas, AIP No. 3-25-0037-XX-2021, Permitting Set Not for Construction Revised 2/23/2022</i>
March 9, 2022	Draft Stormwater Pollution Prevention Plan for Construction Activities at Norwood Airport, Norwood, Massachusetts, prepared by Epsilon Associates, Inc. is submitted.
March 10, 2022	MassDEP email to Epsilon Associates, Inc requesting clarification on temporary Project impacts
March 22, 2022	Epsilon Associates, Inc. emails MassDEP clarifying temporary Project impacts.
March 31, 2022	MassDEP email to DuBois and King requesting modification on street sweeping TSS removal percentages
April 1, 2022	DuBois and King submits revised calculations for street sweeping TSS removal percentages
April 1, 2022	MassDEP emails Epsilon Associates, Inc requesting clarification on Riverfront Impacts
April 08, 2022	Epsilon Associates, Inc. emails MassDEP clarifying Riverfront impacts

## APPENDIX B - PRECONSTRUCTION SUBMITTAL CHECKLIST

This checklist must be completed, signed, and submitted prior to the scheduling of the preconstruction (PC) meeting required by this Variance.

Variance Special Condition <sup>1</sup>	Required Submittal	Date Due Prior to Scheduling PC Meeting unless noted otherwise	Date Submitted	Final Approval Date
GC 9	OOB Recording Information	Prior to work start		
8 <sup>2</sup>	Final Construction Plans with Plan Change Spreadsheet - Certification of No Further Changes	30 days		
9	Qualifications of EM and any alternate EM with specific experience/years to meet requirements	60 days		
10	Qualifications of WS including specific experience and years to meet requirement	60 days		
11	Completed Preconstruction Submittal Checklist	At scheduling of PC		
12	Contact List	At scheduling of PC		
13	Construction schedule (must include schedule for impacts, BLSF replacement, BVW replacement, offsite construction, etc.)	15 days		
14	Notice that Bank, BVW has been marked in field	At scheduling of PC		
16	Copy of EPA Construction General Permit NOI submitted to EPA	10 days		
17	Final Stormwater O/M Plan	30 days		
18	No Illicit Discharge Compliance Statement	10 days		
68	LTPPP and Construction Stormwater Period Pollution Prevention Plan	10 days		

\_\_\_\_\_  
**Signature (Applicant or Applicant Designee)**

\_\_\_\_\_  
**Completion Date**

<sup>1</sup> Except where noted as General Condition (GC)

<sup>2</sup> Insert Final Construction Plans title, date, AIP number, and engineer of record.

### APPENDIX C – CERTIFICATE OF COMPLIANCE SUBMITTAL CHECKLIST

This checklist must be completed, signed, and submitted with the request for the Certificate of Compliance as required by this Variance.

Variance Special Condition <sup>1</sup>	Required Submittal	Due Date <sup>2</sup>	Date Submitted	Final Approval Date
9	EM reports	Biweekly during active construction; monthly off-season		
11	Sign in from Preconstruction Meeting	Within 10 days of PC		
22	Winter Annual Stabilization Plan	By October 15 Annually		
24	Notification of Seasonal Construction Commencement and Stoppage (Annual)	48 hours in advance		
25	Details of any fencing to be installed	At least 30 days prior to installation		
28f	Documentation of consultation with the MassDEP Division of Watershed Planning on the need for a BRP WM 04 Herbicide Permit for invasive species management, and copy of permit if required	At least 2 weeks prior to invasive species management		
31b, c	A Plan for avoiding soil compaction during mitigation construction; Notification that site wetland boundary near	72 hours prior to excavating mitigation areas		

<sup>1</sup> except where noted as General Condition (GC)

<sup>2</sup> Due Date Abbreviations

PC = Preconstruction Meeting.

Variance Special Condition <sup>1</sup>	Required Submittal	Due Date <sup>2</sup>	Date Submitted	Final Approval Date
	mitigation area is well marked and excavation is ready to begin.			
31m	Notification that the wetland replacement area has been fully constructed in accordance with approved plans, accompanied by an as-built plan of the wetland replacement area	Within 30 days of soil placement		
31o	Documentation of all wetland replacement area inspections and/or steps	EM Biweekly and Annual Mitigation monitoring report		
32	Monthly Monitoring for Two Growing Seasons	EM Biweekly and Annual Mitigation monitoring report		
32	Annual mitigation monitoring report – Including Transect monitoring form; Annual Review and Corrective Action	December 15 of the first five years following construction		
70, 71, GC12	Request for Certificate of Compliance <ul style="list-style-type: none"> <li>a. Certification from PE or RLS</li> <li>b. As-built Plan</li> <li>c. Final Report on Mitigation</li> </ul> Copy of OOC Recording	Project Completion, including BVW replication		

\_\_\_\_\_  
Signature (Applicant or Applicant's Designee)

\_\_\_\_\_  
Date

## APPENDIX D - SPECIAL CONDITIONS

The Special Conditions listed below, and the General Conditions contained in the attached WPA Form 5B Variance Order of Conditions constitute a portion of the Variance Decision and WQC issued by the Commissioner of MassDEP on June 27, 2022 to the Applicant for MassDEP File# 251-0528 in Norwood and WQC Transmittal Number X288536. Any term used in a Special or General Condition which is defined or otherwise described elsewhere in the Variance Decision and WQC shall have the meaning ascribed to it in such definition or description, except as otherwise noted below.

### COMPLIANCE, APPEALS, PLAN CHANGES, UNAUTHORIZED WORK

1. Compliance with Variance: This Variance Decision and WQC regulate activities proposed in wetland Resource Areas, as identified in the WPA Regulations and in waters as identified in the 401 WQC Regulations; and in the buffer zone, as identified in the WPA regulations ("Buffer Zone" or "BZ"), associated with such wetland Resource Areas on the Project Site in the Town of Norwood. The Applicant shall comply with the terms and conditions of this Variance Decision and WQC and any document, plan or other submission approved by MassDEP pursuant to this Variance Decision and WQC. The Applicant shall be responsible for implementing the mitigation measures described in this Variance Decision and WQC, including without limitation in these Special Conditions. The Applicant shall not commence any activity requiring MassDEP's written pre-approval until the Applicant has received such approval. Any additional documents or plans required to be submitted by any of these Special or General Conditions, including without limitation any final documents or plans, shall be submitted to the Wetlands Program in Boston. In the event of a conflict between these Special or General Conditions and another term or provision of the Variance Decision and WQC, the Special Conditions contained herein shall control.
2. Appeal Period and Property Rights: Work within Resource Areas and BZ's shall not be undertaken, and this Variance Decision shall not be recorded with the appropriate Registry of Deeds, until all administrative appeal periods from this Variance Decision have elapsed, or, if an appeal is filed, then until all adjudicatory proceedings before MassDEP have been completed, a Final Order is issued, and all appeal periods have elapsed.
3. Plan Changes, Amendments, and Preconstruction Submittals: When the Applicant seeks any change to the Final Plan of Record, including any changes required to comply with the Special Conditions or the General Conditions (see Variance OOC) stated in this Variance Decision and WQC, the proposed changes shall be shown on a revised plan and/or described in a table and/or narrative, including detail on changes in impacts from previous submittals and the proposal for mitigation as appropriate, which the Applicant shall submit to MassDEP for review and written approval prior to implementation. For tracking purposes, all plan change requests, amendment requests, and preconstruction submittals must be numbered consecutively as Plan Changes (e.g. Norwood Airport Taxiway

Realignment Project Plan Change 1, Plan Change 2, etc.). MassDEP reserves the right to require an amendment to this Variance Decision and WQC for changes to the Project, considering the nature and/or relative magnitude of the Project change, including, without limitation, any such changes proposed to the Final Plan of Record, or to the Special Conditions,. In such cases, MassDEP shall have the right to require an application for any such amendment and to approve, approve with modification, or deny any such amendment request. In the event of an approval or approval with modification, only that portion of the Variance being amended may be appealed in accordance with the procedures of 310 CMR 10.00 and 314 CMR 9.00. Proposed amendment applications shall include, at a minimum: (1) a transmittal sheet; (2) revised design sheets at a scale of 11" x 17" (and 1"=40' upon request) and a plan showing the original design at the same scale; and (3) a revised table showing the original impacts for each Resource Area based upon this design/segment compared to the impacts for each Resource Area based upon the proposed revised design. In addition, a narrative shall be included describing: (1) the proposed modification and the reasons the modification is being sought; (2) notation of any additional or reduced impact to Resource Areas; (3) a discussion of all temporary impacts, including those associated with construction, stockpile areas, wheel wash stations, and impacts related to the equipment being used; (4) a construction sequence with approximate time periods for completing each task; (5) site-specific erosion control strategy; (6) effect of the revised design on the Stormwater Standards for the Project; and (7) at least one other alternative design that has been considered or is possible. All plan changes shall be submitted in electronic format and hard copy format upon request. Whenever possible, the Applicant is encouraged to discuss possible plan changes informally with the assigned MassDEP staff prior to submitting a formal plan change request.

4. On-Site, Unauthorized Work: At all times, the Applicant, its contractor and subcontractor(s), the Resident Engineer (the Applicant's On-Site Supervisor for the Project) (RE), the Environmental Monitor, and the Wetland Specialist shall maintain a copy of this Variance Decision and WQC and Final Plan of Record as described in Appendix A (or as subsequently amended and approved in writing by MassDEP) on-site and shall ensure compliance with its terms and conditions. No contractor or subcontractor shall require or allow unauthorized work in Resource Areas or BZ. The Applicant is responsible for all activities undertaken by the RE, Environmental Monitor, Wetland Specialist, and its contractor, including any subcontractor(s).

#### Permit EXPIRATION, ANTIDEGRADATION, ENFORCEMENT

5. Permit Expiration: To effectively monitor the development of all mitigation areas, this Variance Decision and WQC is valid for five years from the date of its issuance and may be extended upon request. Additionally, the wetland boundary delineation depicted on the plan entitled "Wetland Delineation at Norwood Airport" dated March 30, 2020, that was confirmed by MassDEP during a site visit on October 21, 2021 and is valid for the duration of this permit.

6. Anti-degradation: All waters, including wetlands, are protected by the anti-degradation provisions of the Massachusetts Surface Water Quality Standards (MSWQS), 314 CMR 4.04. Stormwater discharges to Resource Areas during the construction period must comply with the MSWQS established for each of the affected areas in 314 CMR 4.00. The Contractor shall take all steps necessary to assure that all Project work is conducted in a manner that avoids noncompliance or violations of 314 CMR 4.04.
  
7. Enforcement: Failure to comply with this Variance and WQC is grounds for enforcement including, without limitation, civil and criminal penalties, under M.G.L. c. 21, §§ 42 and 44, M.G.L. c. 21A, § 16, and 310 CMR 5.00, 310 CMR 10.08 and M.G.L. c. 131, § 40. The Applicant is responsible for compliance with the terms and conditions of this Variance Decision and WQC. In accordance with 310 CMR 10.08 and 314 CMR 9.11, MassDEP shall have the right to take action against the Applicant and/or construction contractor(s) for failure to comply with the terms and conditions of this Variance.

#### PRECONSTRUCTION REQUIREMENTS

8. FINAL PLAN OF RECORD: Work in wetland resource areas or waters of the Commonwealth shall conform to the Final Permitting Plan of Record titled *Norwood Memorial Airport: Environmental Permitting TW 'C' Realignment and Runway 17-35 Paved Safety Areas, AIP No. 3-25-0037-XX-2021, Permitting Set Not for Construction Revised 2/23/2022* (73 pages) with adequate phasing to confirm BLSF mitigation occurs before BLSF impacts. The Final Construction Plans (the plans provided to the contractor) shall be submitted for written approval at least 30 days prior to the scheduling of the Preconstruction Meeting with an accompanying itemization table of changes between the two plan sets. Following approval, the Final Construction Plans shall be determined the Final Plan of Record and documented as such in Appendix B. Each plan change shall be dated and listed on a separate row with the following information in the columns: Sheet number of Final Plan of Record (described in this condition and listed in Appendix B), sheet number of new plan set, description of plan change including name of wetland or water as referenced in Variance Application, approved wetland or waters impact, proposed wetland or waters impact, and description of mitigation if impact is increased. At the bottom of the table, a certification shall be made stating that "There are no additional impacts to wetlands or waters other than those listed in this table." Said certification shall be signed by the Applicant, or by the Applicant's designee. The Applicant shall provide a copy to the Norwood Conservation Commission (CC) at the same time. Sufficient supporting information, explanation, and documentation shall be provided to MassDEP and the Conservation Commission for any changes, and MassDEP may at its discretion require additional supporting documentation as a condition of review. Once MassDEP provides written approval, the updated set of plans shall become the "Final Plan of Record." In the event that the plan change table fails to identify a Project change, that change is not approved, and MassDEP will defer to the Final Permitting Plan of Record set dated 2-23-2022. Each representation and assurance made by the Applicant in the Variance Request and Site Plans regarding the manner in which Project activities will

be conducted by the Applicant and its contractor(s) and subcontractor(s) are incorporated into and made enforceable conditions of this Variance Decision. In the event of a conflict between the terms and conditions of this Variance Decision and the Variance Request and Site Plans, the Variance Decision terms and conditions shall be controlling. If the Applicant proposes jurisdictional impacts beyond those identified in the Final Plan of Record approved pursuant to this Variance Decision and WQC, then the Applicant shall propose additional mitigation as part of the submittal seeking such amendment(s). MassDEP may impose monitoring and reporting requirements for any additional replacement/mitigation areas approved.

9. Environmental Monitor: The Applicant shall employ an Environmental Monitor (EM) for the duration of the design, construction, and monitoring of work in wetland Resource Areas and BZs. The EM chosen shall have a minimum of ten (10) years of experience in wetland protection, erosion and sedimentation control, wetland monitoring, site drainage, stormwater management, and general site construction. At least 60 days prior to scheduling the Preconstruction Meeting, the qualifications of the EM and any alternate EM shall be provided to MassDEP for prior written approval before the EM is selected and shall include specific experiences and years to meet these requirements. The Applicant shall require the EM to review all aspects of the Project including design submittals, construction activities and post-construction monitoring. All design submittals required by this Variance Decision and WQC shall be reviewed by the EM prior to submittal to MassDEP. The EM shall provide recommendations to MassDEP as to whether submittals comply with the Variance Decision and WQC terms and conditions. The EM shall oversee all components of field work which may have an adverse impact on wetland resources, including, but not limited to: placement and performance of erosion and sediment control measures; cofferdam installation and removal; dewatering activities; creation of wetland mitigation areas; hazardous waste remediation; any other remedial activities and post-construction monitoring. The EM must be available for contact by MassDEP on a 24-hour basis, seven (7) days a week to address any emergency situation. The Applicant shall authorize the EM to respond to and communicate directly with MassDEP requests on all matters related to: site inspections, plan reviews, mitigation oversight, and overall Project compliance with WPA and WQC standards, and with all Variance Decision and WQC terms and conditions. MassDEP may make any requests directly to the EM and the EM shall be authorized to fulfill such requests without the advice or consent of the Applicant. The Applicant shall also preauthorize the EM to contact MassDEP or the Norwood CC directly regarding any Project related water quality or wetland protection matter. The EM shall submit bi-weekly reports during active construction and monthly reports during the off-season to MassDEP and the Norwood CC until all work in Resource Areas and BZs is completed. These reports shall summarize the status of construction, the condition of the Project Site, weather conditions, and a "Compliance Action Item Table" that lists all matters observed that may impact wetland resource areas or buffer zones and that require correction including but not limited to any erosion, sedimentation, or pollution. The Compliance Action Item Table shall include the following columns: 1) Item #, 2) Location, 3) Priority, 4) Observation Date, 5) Resolution Due Date, 6) Resolution Recommendation, 7)

Actual Resolution Date, 8) Comments. The 'Priority' Column shall rank each item as Urgent (correction immediately), High (correction within 1-3 days), Medium (correction within 1 week), or Low (correction within 1-2 weeks). The Resolution Due Date shall be based on the Priority status assigned by the EM. The EM Report shall also include recommendations on how to prevent similar problems in the future, and shall include photos of the site taken during that inspection period. The EM shall immediately report any problems that may have an adverse effect on Resource Areas or BZ to the Project RE, the Norwood CC and MassDEP, including but not limited to discharges of construction site runoff that cause visible turbidity to Resource Areas. **The RE shall take immediate steps to correct such problems.** The EM shall submit annual reports for five years to MassDEP and the Norwood CC following completion of construction of all wetland mitigation and restoration areas. MassDEP reserves the right to require an extension of mitigation monitoring reports until such time as mitigation areas function in accordance with 310 CMR 10.55(4)(b) (unless varied), the design plans, and any other related criteria established by MassDEP through this Variance Decision and WQC. All EM reports shall be submitted simultaneously to the Applicant, its representative(s) and to MassDEP. The Applicant shall not participate in the preparation of any EM report. The EM's report shall include recommendations for corrective action to be taken by the Applicant, the contractor or any subcontractors. If necessary, the EM shall recommend action to be taken by MassDEP at any time in the event it is needed to achieve wetland protection. The Applicant shall grant the EM authority to halt construction at any time in order to protect public health, safety, or the environment.

10. Wetland Scientist: The Applicant shall require its contractor to employ a Wetlands Scientist (WS) for the duration of the design, construction, and monitoring of work in Resource Areas and BZs. The WS shall have a minimum of ten (10) years of experience in wetland delineation, wetland creation and restoration and wetland monitoring. At least 60 days prior to scheduling the Preconstruction Meeting, the qualifications of the WS shall be provided to MassDEP for prior written approval before the WS is selected and shall include specific experiences and years to meet these requirements. The WS shall oversee all activities related to wetland resource and replacement areas including but not limited to: removal of wetland soils, filling wetlands, vegetation management, temporary disturbance and restoration; transportation of soils and plant materials; excavation, assessment of wetland hydrology, placement of soils and planting of wetland replacement areas; monitoring of replacement and other mitigation areas; remedial activities; and monitoring of activities that have the potential to affect wetland Resource Areas and BZ's such as erosion control installation, repair and removal, and soil stabilization. The WS shall submit bi-weekly reports to the EM during active construction and bi-monthly reports during the off-season on the above activities and shall have the responsibility in conjunction with the EM to recommend remedial action to the RE. The WS shall be authorized to contact MassDEP and the Norwood CC directly for any matter involving wetland protection. The WS position may be combined with the EM position required in Special Condition 9 provided the qualifications and requirements of both Special Conditions are met.

11. Preconstruction Meeting: Prior to any work within a wetland Resource Area, BZ, or 401 Waters, including, but not limited to site preparation and clearing, a Preconstruction Meeting shall be held on-site with representatives from MassDEP's Boston office and the Norwood CC. Attendance at the Preconstruction Meeting will be mandatory for the Applicant, the RE, the Applicant's contractor, subcontractors, the EM, and the WS. The Preconstruction Meeting shall be scheduled at least seven days prior to any work in wetland Resource Areas or BZ, and the availability of MassDEP Boston office and the Norwood CC staff shall be confirmed prior to finalizing the meeting date and time. Applicant shall notify and invite other environmental permitting and resource agencies involved in reviewing and permitting the Project, including the U.S. Army Corps of Engineers. Prior to scheduling the Preconstruction Meeting, the "Preconstruction Submittal Checklist" attached to this Variance decision shall be completed, signed and submitted to MassDEP. The purpose of the meeting is for the EM to train the Norwood Airport Commission construction personnel and the contractor and subcontractors on the terms and conditions of this Variance Decision and WQC so that all parties are familiar with all requirements. The Final Plan of Record, including mitigation plans, the locations of wetland resource areas, the construction period Stormwater Pollution Prevention Plan (SWPPP) and any other major issues pertinent to the Project shall be reviewed at that time. A sign-in sheet from the Preconstruction Meeting shall be submitted to MassDEP within 10 days of the Preconstruction Meeting. Each new contractor or subcontractor not present at the Preconstruction Meeting shall be trained on the terms and conditions of this Variance and the construction period SWPPP and verification of such training shall be submitted to MassDEP and kept on site for inspection.
12. Contact List: Prior to scheduling the Preconstruction Meeting, a contact list of the names, phone numbers and email addresses of the Applicant's supervisor, contractor, RE, EM, WS, MassDEP (Boston), U.S. Army Corps of Engineers staff and representatives of the Norwood CC shall be submitted to MassDEP. The Applicant shall distribute the list to all parties at the Preconstruction Meeting. The contact list shall be updated as personnel on the Project change and such revised contact list shall be submitted to all parties.
13. Construction Schedule: During active construction season, the RE or EM shall provide a written construction schedule for the next month to MassDEP and the Norwood Conservation Commission describing any activity that will result in alteration to Resource Area(s) or BZ. The first schedule shall be submitted prior to scheduling the Preconstruction Meeting. Any changes in the schedule shall be noted and provided to MassDEP and the Norwood Conservation Commission prior to implementation of such changes. The schedule shall incorporate each required Resource Area alteration or mitigation activity, including but not limited to installation of erosion control measures, wetland fill, construction of wetland replacement, and construction of compensatory flood storage and stormwater BMP's including the sand filter in the parking area. The schedule for BLSF mitigation must occur prior to BLSF impact or temporary BLSF mitigation must be provided and documented in the Final Plan of Record unless approved by MassDEP in writing. The

schedule shall also reference specific terminology contained in the terms and conditions of this Variance Decision and WQC so that MassDEP can clearly understand when specific activities described in this Variance Decision and WQC will be conducted (e.g., Wetland Replication Area 1 etc.) schedule shall be submitted at least 15-days prior to the Preconstruction Meeting to confirm construction of the compensatory flood storage area and BVW replacement area will begin prior to or concurrent with any resource area impacts.

14. Marking/Flagging Boundaries: Prior to scheduling the Preconstruction Meeting, the boundaries of BVW where no disturbance is authorized shall be marked with stakes or flags when they are located within fifty (50) feet of the estimated limits of work area. Also prior to scheduling the Preconstruction Meeting, MassDEP shall be provided notice that marking/flagging is complete. In the event that Resource Area boundaries overlap, the outermost Resource Area boundary (i.e. the boundary closest to the proposed work) shall be marked and clear signage shall indicate that no disturbance is authorized beyond the marked boundary. All wetland boundary markers, once in place, shall remain in place throughout construction until all disturbed surfaces have been permanently stabilized and written notice to remove the boundary markers has been provided to MassDEP. Boundary markers shall be fully evaluated annually and refreshed where needed and implementation of this requirement shall be documented by the EM in the regular report. All construction personnel shall be made aware of these markers.

CONSTRUCTION PERIOD SWPPP, CONSTRUCTION GENERAL PERMIT, OPERATION AND MAINTENANCE PLAN, LONG TERM POLLUTION PREVENTION PLAN, ILLICIT DISCHARGES

15. Final Construction Period SWPPP Certification: The SWPPP Draft dated March 7, 2022, as required to be revised herein, may serve as the Construction Period Pollution Prevention Plan (CP/PP) required in accordance with 310 CMR 10.05(6)(k). The combined CP/PP and SWPPP shall hereafter be defined as the “construction period SWPPP.” The Applicant shall submit a construction period SWPPP to MassDEP for review and written approval at least 30-days prior to scheduling the Preconstruction Meeting. After approval, the SWPPP shall hereafter be defined as the “construction period SWPPP.” A written certification shall accompany the construction period SWPPP certifying under the pains and penalties of perjury whether the construction period SWPPP is substantially in accordance with these Special Conditions and the SWPPP DRAFT dated March 7, 2022 with deviations from the SWPPP DRAFT called out specifically. The construction period SWPPP and accompanying certification shall also be submitted at the same time to the EM, the WS, and the Norwood CC. No disturbance of any Resource Area or BZ shall begin until the construction period SWPPP has been submitted to MassDEP. Measures specified in the construction period SWPPP shall be implemented to protect wetland interests and meet state water quality standards. Construction period SWPPP measures shall be maintained in good repair, until all disturbed surfaces are fully stabilized. MassDEP may require modifications to the construction period SWPPP at any time if warranted. Any subsequent changes to the construction period SWPPP must be approved in writing by MassDEP. Any proposed

permanent Project changes must be submitted as a change to the approved Final Plan of Record in accordance with Special Condition 3.

16. EPA Construction General Permit: A NOI shall be submitted to EPA to obtain coverage under the Construction General Permit (CGP) prior to land disturbance of one acre or more. At least 10-days prior to the Preconstruction Meeting, a copy of the EPA NOI to obtain coverage under the CGP shall concurrently be provided to MassDEP, along with the EPA permit number.
17. Post Construction Stormwater Management Operation and Maintenance (O/M) Plan: At least 30 days prior to scheduling the Preconstruction Meeting, the Applicant shall submit a Final Stormwater O/M Plan to MassDEP for review and written approval. The Stormwater O/M DRAFT materials submitted February 24, 2022 shall be revised to include details on the sand filter and associated sediment forebay. Maintenance shall be in accordance with the schedule specified in the *MassDEP Stormwater Handbook Volume 2* for sand filters. Details on the subsurface infiltration chamber maintenance shall also be included. All stormwater control practices must be maintained in strict accordance with the Final Stormwater O/M Plan. No disposal of snow is to be directed to the stormwater control practices required herein or in wetland resource areas, other than incidental plowing of snow from the runways, taxiways, or automobile parking areas. No NOI under the Massachusetts WPA and Wetlands Regulations shall be required to be filed in order to maintain the stormwater control practices required herein, provided said maintenance is conducted in strict accordance with the Stormwater O/M Plan. The Wetland Replacement area and the Compensatory Flood Storage Area(s) are not stormwater management control practices. Without limitation, failure to maintain the post-construction stormwater management control practices in accordance with the Stormwater O/M Plan shall constitute noncompliance with the Massachusetts WPA, the WPA and WQC Regulations, and this Variance Decision and WQC. This requirement is ongoing and does not expire upon the completion of the Project or the issuance of a Certificate of Compliance (COC). MassDEP will include a continuing condition in the COC requiring ongoing maintenance of the stormwater control practices. Any proposed changes to the Final Stormwater O/M Plan shall be submitted in writing to MassDEP for its prior written approval
18. No Illicit Discharge Compliance Statement: At least 10-days prior to scheduling the Preconstruction Meeting, a written certification signed under the penalties of perjury shall be submitted certifying there are no illicit discharges on site to wetland resource areas and the stormwater drainage system, including no floor drains located in hangers or other buildings on site unless they are registered with the MassDEP Underground Injection Control Program pursuant to 310 CMR 27.00.
19. Mitigation Area Access: The Applicant shall provide any member of the Norwood CC and their respective agents, and MassDEP and its agents, the right to enter and conduct site inspections during erosion and sedimentation control installation, wetland or buffer zone

alteration, mitigation construction, and throughout the Project construction process to evaluate compliance with this Variance Decision and WQC. The Applicant shall also provide the Norwood CC and MassDEP, and their respective agents, with access to all mitigation areas after they are constructed to conduct compliance monitoring until such time as MassDEP determines that the areas have attained the BVW performance standards established at 310 CMR 10.55(4)(b) (unless varied), the design as shown in the plan approved by this Variance Decision and WQC, and the performance goals established in these conditions.

20. Facilitating Site Visits - Site visits may be scheduled with the Applicant's RE, or another individual designated by the Applicant. The Applicant shall ensure that inspectors are aware of any safety considerations and shall provide safety vests and hard hats as needed by personnel inspecting the site. MassDEP may require the Applicant to submit any additional or different plans, data, or mitigation deemed necessary by MassDEP to confirm compliance with this Variance Decision and WQC. The Applicant and its contractor shall respond to all requests made by MassDEP within ten (10) business days or sooner if directed by MassDEP, for compliance with the terms of this Variance Decision and WQC, or for the prevention of environmental damage to Resource Areas or BZs. The Applicant and/or its contractor(s) are encouraged to contact MassDEP with any problems or questions that arise during construction.

#### FILL AND STABILIZATION

21. Fill: Any fill used in Resource Areas or BZs shall comply with all provisions of the Wetlands Act, Wetlands Regulations, M.G.L. c. 21E, and the regulations promulgated pursuant thereto at 310 CMR 40.0000. Without limitation, fill shall not contain any trash, refuse, rubbish or debris, including, but not limited to lumber, plaster, construction materials, wire, lath, paper, cardboard, pipe, tires, ashes, metal, plastic, motor vehicles, or parts of any of the foregoing, hazardous waste, hazardous materials, or oil.
22. Winter Stabilization Plan: The Applicant shall submit a plan to MassDEP by October 15 of each calendar year during construction to stabilize all disturbed Resource Areas and BZs, and the plan shall be implemented as approved prior to December 31 of such year. At a minimum, the stabilization plan shall include re-vegetation with sufficient topsoil, to a minimum depth of six (6) inches. Where necessary for stabilization, a rapid-growing temporary ground cover shall be used. If permanent stabilization cannot be achieved due to seasonal conditions, then appropriate temporary stabilization measures shall be applied to control erosion until vegetative cover can be established during the next growing season. Other than embankments or areas over buried piping that may be mowed, plantings on slopes that exceed three horizontal to one vertical ratio (3H:1V) shall be covered with a properly installed erosion control blanket, similar product, or a dense ground cover that does not require mowing or applications of fertilizers or pesticides.

23. Buffer Zone Stabilization: Once the improvements authorized by this Variance Decision and WQC are graded and stabilized, but in any event no later than the date the improvements are open for use, the Applicant shall commence monitoring of vegetation planted within the BZ. The Applicant shall reseed or replace such vegetation when monitoring indicates that dieback has occurred to stabilize land surfaces and prevent erosion within BZs and Resource Areas. This Special Condition shall remain in effect for two years from initial seeding and/or vegetation planting. MassDEP reserves the right to require an extension of this Special Condition.
24. Annual Notification: The Applicant shall notify MassDEP Boston, attention Wetlands Program; the Norwood CC; the EM and the WS in writing at least 48 hours in advance of initial annual Resource Area disturbance (such as clearing or grubbing), seasonal work stoppages, and the annual re-commencement of work in wetland Resource Areas and BZ's.

#### FENCING AND TEMPORARY IMPACTS

25. Fencing: Any fencing installed as part of the Project shall be installed in a manner that protects wildlife habitat, Resource Areas and BZ's. Details of the fencing and/or barriers shall be depicted on plans, which shall be submitted to MassDEP for its approval at least thirty (30) days prior to installation. All fencing, other than erosion and siltation fencing must be at least six (6) inches off the ground or other measures (e.g. gaps in barriers, wildlife crossings) shall be taken if possible to provide wildlife passage. Fencing shall be located outside of BVW unless specifically approved by MassDEP in writing. If compliance with this Special Condition will compromise Airport safety, MassDEP may waive this requirement in writing if adequate documentation is submitted.
26. Limits of Work: Prior to any activity approved in this Variance Decision and WQC which will result in a temporary alteration to a BZ, the limits shall be marked by a silt fence and double row of staked straw bales, or other measures sufficient to prevent erosion and siltation. All of the Applicant's contractors and subcontractors shall inform all their personnel of the limit of work through training and signage.
27. Restoration: The Applicant shall restore all areas where temporary impacts to wetland resource areas and BZ are approved in accordance with the Final Plan of Record as described in Appendix A. This requirement includes grading to restore wetland resource areas to their original elevation, removal of silt fence, placement of topsoil, installation of resource area appropriate native nursery plantings, removal of temporary BLSF mitigation if-required, and establishment of suitable resource area appropriate ground cover (not lawn grass) for initial stabilization. The EM shall document when grading and replanting is completed in the required regular report. The Applicant shall commence monitoring of these areas immediately after grading and replanting. The Applicant shall take immediate action to replace plants as needed. Monitoring reports shall be included in the EM reports required by these Special Conditions.

## INVASIVE SPECIES MANAGEMENT

28. Invasive Species Management: An Invasive species control plan shall be submitted for MassDEP's review and written approval prior at least 10 days prior to the scheduling of the Preconstruction Meeting to be implemented in accordance with the Final Plan of Record and this Special Condition. Invasive species management shall be implemented in the BVW replacement area, the BZ surrounding the BVW replacement area, a 100-foot buffer surrounding the temporary BLSF mitigation areas where invasive species are currently present, constructed stormwater BMP's and areas where the buffer zone has been disturbed throughout the Project. Following construction of the mitigation and temporary restoration areas, inspections shall occur twice per year and immediate follow up to remove said species will occur for a period of five years. Documentation of invasive species observed, discussion of measures taken to control invasive plant species, an estimate of how successful those measures were, and a plan for the upcoming year shall be included in the EM report submitted within one month of activities. MassDEP may impose additional conditions as needed to ensure that invasive species are successfully eradicated, and the Applicant shall comply with such additional conditions. If invasive species are present in any areas where invasive species management is required to be implemented by this Special Condition at the time of a request for Certificate of Compliance (COC), MassDEP may in its sole discretion issue a COC if a plan containing commitments to control such species is submitted. Upon approval, the plan shall be implemented until MassDEP determines that commitments have been met. Invasive species include but are not limited to those identified in MassDEP's "Massachusetts Inland Wetland Replication Guidelines," March 2002 (such as *Lythrum salicaria*, *Phragmites australis*, *Frangula alnus*, *Lonicera spp.*, *Alliaria petiolata*, *Fallopia japonica*, *Microstegium vimineum*, *Phalaris arundinacea*, *Celastrus orbiculatus*, *Cynanchum nigrum*, and *Cynanchum rossicum*). MassDEP may require control of other invasive species such as those listed on the U.S. Army Corps of Engineers website:

<http://www.nae.usace.army.mil/Missions/Regulatory/InvasiveSpecies.aspx>, and those that are included on the *Invasive Plant Atlas of New England*. (i.e.

[http://www.eddmaps.org/ipane/ipanespecies/current\\_inv.htm](http://www.eddmaps.org/ipane/ipanespecies/current_inv.htm)). Use of herbicides to control invasive species shall be implemented in accordance with the following requirements:

- a. Herbicides can only be applied by a Licensed Applicator.
- b. Applicant must provide MassDEP Material Safety Data Sheets (MSDS) of the product being used and must also keep MSDS sheets on site.
- c. Product registration in MA with Massachusetts Pesticide Product Registration Number must be confirmed with Massachusetts Department of Agricultural Resources Pesticide Division.
- d. EPA Registration Number for the product must be identified.
- e. Product label restricted use provisions must be followed.

- f. Applicant must contact MassDEP Division of Watershed Planning to determine if a BRP WM 04 herbicide permit is required. At least 2 weeks prior to invasive species management work, documentation must be submitted to MassDEP Boston Wetlands Program that said consultation occurred, and a copy of the permit if required.

#### BORDERING VEGETATED WETLAND REPLACEMENT

29. MassDEP Required Plan Modifications: In the event unanticipated conditions are encountered, MassDEP reserves the right to require modification of plans for the Wetland Replacement area and any other plan(s) as needed to meet the general performance standards at 310 CMR 10.55(4)(b) and 10.60 or other requirements of these Special Conditions.
30. Plan Changes: Any deviation from the methodology, procedures, techniques, or construction details described in the Final Plan of Record for the Wetland Replacement area or other mitigation must be approved in writing by MassDEP and must be implemented as approved. The plans and construction notes shall be revised to be consistent with these Special Conditions and resubmitted to MassDEP in accordance with Special Condition 3 and Special Condition 8.
31. Replacement Area Construction: The Applicant shall require the WS to follow the sequence described below during construction of the Wetland Replacement area:
  - a. Flagging: Site flagging shall be inspected to ensure it is present and the wetland resource boundary is well marked before excavation or erosion control installation work begins.
  - b. Soil Compaction Avoidance: Effort shall be made to avoid soil compaction during excavation. Long reach heavy excavators and/or small machines shall be used to the maximum extent possible. All tires on any wheeled vehicle or machine shall be properly inflated. A plan documenting how the excavation of the Wetland Replacement area will be done, the types of equipment to be used and how compaction will be avoided shall be submitted to MassDEP at least 72 hours prior to construction.
  - c. Notification: MassDEP shall be notified at least 72 hours prior to start of proposed excavation. MassDEP or its agent reserves the right to be present during all excavation work.
  - d. Survey Excavated Elevations: Excavated elevations shall be inspected, and post-construction ground water elevations shall be documented before soil translocation or addition into the replacement area. Surveyed elevations of the final subgrade shall be obtained by a registered land surveyor prior to soil translocation.
  - e. Invasives: Whenever possible, natural hydric or other native topsoil layers shall be used to form the new placed topsoil; however, under no circumstances shall soils

- be used that hosted invasive plants or that were in the vicinity of invasive plants. Upon placement, replaced soils shall be disked to remediate any compaction.
- f. Soil Amendments: In the event a soil amendment mixture is used, the soil amendment shall consist of equal volumes of organic and mineral material. The organic matter shall be well or partially decomposed, and the mineral components shall be predominantly in the loam, loamy sand, to silt-loam texture range. The soil amendment shall be mixed and analyzed via laboratory analysis before placement as proposed by the Applicant. A copy of that analysis shall be provided to MassDEP in the EM report and annual monitoring report.
  - g. Stockpiles: Wetland Replacement area soils shall not be stockpiled in the Wetland Resource Areas or the Wetland Replacement area site unless written approval is obtained from MassDEP. While stockpiled, soils shall be kept wet and shall not be allowed to dry out. Procedures for maintaining appropriate moisture levels shall be documented in the monitoring reports. Vehicles used to transport soils shall be washed so no exotic or invasive seeds from other sites get mixed into replacement area. Stockpiled soils and wash out of vehicles shall comply with the construction period SWPPP.
  - h. Final Grade Survey: Upon completion of soil placement or translocation, surveyed elevations of the final grade by a Registered Land Surveyor shall be documented prior to planting.
  - i. Planting: The WS shall oversee all planting procedures. Planting shall occur at the beginning or end of the growing season. Shrubs and trees may be planted until November 15 (weather permitting), if careful investigation of individual plant tolerances is conducted.
  - j. Plants from Altered Wetland: If wetland plants from the altered wetlands are used, they shall be removed in plugs or culms and be protected against desiccation. As appropriate, trees and shrubs shall be root pruned prior to transplanting. Plants shall be planted within one day of removal from existing wetland, or as soon as possible and properly protected (e.g. burlap), watered and handled.
  - k. Indigenous Plantings & Seed Mixes: Plantings and seed mixes used in the Wetland Replacement area, and erosion control or re-vegetation activities within BZs shall consist of species and varieties indigenous to the ecoregion within which the Project is occurring.
  - l. Substitutions: If there is a limited availability of plant stock or seeding mix at the time of planting, the WS must approve any substitutions, and MassDEP must be notified of such substitutions and offered opportunity to comment and may approve or deny the change.
  - m. Notification of Completion and As-Built Plan: Within 30 days following the completion of construction (i.e. all grading and planting have been completed) of the wetland replacement area, the Wetland Specialist shall notify MassDEP in writing that the area has been fully constructed in accordance with the approved plans. Timeframes for monitoring will not begin until such notification is received. The notification shall also be accompanied by an “as-built” plan prepared and stamped by a Registered Land Surveyor of the Commonwealth that documents

whether the replacement area meets the grades, size requirements, and location as specified in the approved plans. Any variations from what is specified in the approved plans shall be identified.

- n. Irrigation: Irrigation is approved for the first growing season, if necessary, to establish new plantings. Irrigation may be approved by MassDEP during designated drought (Advisory level or higher) if advised by the EM and upon consultation with MassDEP. After the first growing season, or when the drought has been declared over, irrigation equipment must be removed, and all irrigation discontinued unless written approval is obtained from MassDEP to continue the irrigation. If extended irrigation is approved, the monitoring period shall be extended an equivalent duration. The Department's purpose in prohibiting irrigation of the replacement area is to ensure the development of hydrology necessary to support the replacement area, and to ensure the capacity to assess the replacement area hydrology without artificial interference by irrigation. Water for irrigation shall not be taken from streams or wetlands.
- o. Documentation of Sequence: Documentation of all Wetland Replacement Area inspections and/or steps required by this Variance Decision and WQC shall be submitted to MassDEP and the Norwood CC as part of the required bi-weekly EM reports required in Special Condition 9.

32. Monthly Monitoring for the Initial Two Growing Seasons: The WS shall inspect the Wetland Replacement Area monthly between March and November for the first two growing seasons. The Applicant shall contact MassDEP Wetlands Program to obtain an electronic monitoring form for the monthly monitoring data that must be completed and submitted with the EM report and annual monitoring report required by this Special Condition. Information to be entered in the monitoring form includes vegetation, soils, and hydrology. Document wetland vegetation development including visual inspection of all plantings to document mortality; and an estimate of the overall aerial extent (percent cover) of wetland plant communities, non-wetland plant communities, un-vegetated areas, and open water. A total species inventory should also be included. Document hydrology including depth to water table as measured from the soil surface in three locations that correspond to an appropriate range of elevations characteristic of the site. For groundwater driven sites, this shall include monitoring well installations. Monitoring wells shall be installed in accordance with the USACE Technical Report *Standard for Water-Table Monitoring of Potential Wetland Sites* (ERDC TN-WRAP-05-2 June 2005), except that the wells shall be 24" deep instead of 15'. Groundwater monitoring data shall be recorded in 30 - day intervals throughout the growing season. Note that for the purposes of this Special Condition the growing season shall be defined as a period from May 1 to September 30. If the site is permanently inundated or if most of the site is surface water driven, surface inundation depth shall be recorded. Three staff gages can be substituted for the monitoring wells in this situation. The results of the monthly monitoring shall be submitted by December 15 of each calendar year in a report that attaches the data (e.g. tables, site photographs, site figures, etc.), summarizes the findings, and identifies problems with associated remedial action recommendations as-needed. MassDEP reserves the right to

require immediate remedial action or additional monthly monitoring based on the monthly monitoring results in accordance with 310 CMR 10.55(4)(b) and this Variance Decision and WQC.

33. Annual Monitoring for Three Additional Growing Seasons: The third year through the fifth year following construction, the WS shall conduct a detailed assessment of the Wetland Replacement area vegetation, hydrology, and soils once per year. The annual monitoring shall include three one-meter plot assessments that include total species and aerial dominance. The three plots shall be located adjacent to the monitoring wells or staff gages referenced in Special Condition 32 and vary in elevation representing the total range in site elevations. In addition to the three plots, sitewide information should include a total species inventory with percentage of dominance per species. Soil information should be collected adjacent to the three (3) vegetation plots. The soil evaluation shall consist of digging a traditional soil evaluation hole to a minimum depth of the extant native soil. The color, depth, and texture of each observed layer (including the extant native soil) shall be documented. In addition, a well-lit photograph of the soil pedon adjacent to a visible measuring tape shall be provided. Any evidence of redoximorphic features, or the lack thereof, within the placed soil shall be documented. If redoximorphic features are present, the type, color, abundance, location (i.e. along macropores or within matrix), and depth shall be documented. The presence or lack of, saturation, free water, or water weeping in from the sides shall also be documented, as well as any surface inundation. General site hydrology shall be described. Reports shall include a narrative discussion, vegetation plot results, soil descriptions, photographs, and site figures. Reports shall be submitted no later than December 15<sup>th</sup> of each calendar year. All monitoring reports shall be sent to MassDEP and the Norwood CC in pdf format. The location of the plots, soil evaluation pits, monitoring wells (or staff gages) shall be depicted on a plan to be included in the monitoring reports. MassDEP reserves the right to require immediate remedial action or additional annual monitoring per the monitoring results in accordance with 310 CMR 10.55(4)(b) and this Variance Decision and WQC.
34. Corrective Action Report: Based upon the data collected during sampling events, the WS shall render a conclusion within each annual report required by Special Condition 32 and 33 regarding the success of the Wetland Replacement Area relative to the performance standards at 310 CMR 10.55(4)(b); the design and planting plan proposed in the Final Plan of Record; and any other related criteria established by MassDEP in this Variance Decision. If, at the end of each growing season, the WS, or MassDEP upon its own discretionary initiative, concludes that the Wetland Replacement area has failed to meet the success criteria cited in these Special Conditions, or does not become the wetland proposed and approved in the Final Plan of Record approved by this Variance Decision and WQC, then, no later than the end of that calendar year, the WS shall prepare and submit to MassDEP for MassDEP's written approval a corrective plan of action. Without limitation, the corrective plan of action shall propose a strategy that is consistent with the requirements of these Special Conditions and may include but is not limited to providing healthy wetland vegetation in sufficient quantity to achieve the replacement area planting

plan that is depicted in the Final Plan of Record, regrading the site as directed by the Applicant's WS or by MassDEP, or relocating the replacement area. The corrective plan of action shall be implemented as approved by MassDEP during the next growing season under the supervision of the WS. Prior to the issuance of the final COC for the Project, the Applicant's WS shall certify to MassDEP that the wetland replacement areas have achieved the success criteria established through these special conditions, is consistent with the proposed Final Plan of Record approved by this Variance, and is consistent with any other related criteria established by MassDEP.

35. Prohibition of Post-Construction Maintenance: The wetland replacement area and its associated BZ shall not be maintained in any manner, nor shall any other disturbance occur, including mowing, planting of non-indigenous ornamental plantings, or any other activity, as defined at 310 CMR 10.04 Activity, except as specifically approved in writing by MassDEP or the Norwood Conservation Commission as appropriate. MassDEP reserves the right to include a continuing Special Condition in the COC prohibiting maintenance, disturbance, or other activities within the wetland replacement area and the associated BZ.
36. Requirements for Additional Impacts: In the event of proposed additional temporary or permanent jurisdictional impacts, beyond what has been identified in the plans referenced in this Variance Decision, the Applicant must propose additional mitigation for such proposed additional impacts. Suitable additional mitigation shall not include mitigation previously approved as part of this Variance Decision. In all cases, mitigation shall be located within the same reach of the same waterway or waterbody and within the same watershed as the impacted area unless the Applicant demonstrates that mitigation meeting this requirement is unattainable. The Applicant shall demonstrate that vegetated wetlands or other jurisdictional Resource Areas and BZ's that are adversely impacted will be adequately replaced or restored. Monitoring and reporting requirements may be imposed on any additional mitigation areas. If acquisition of additional lands is needed for such mitigation, the time required for acquisition shall not be the basis for extending any deadlines established by this Variance unless approved by MassDEP in writing.

#### Stormwater Pollution Prevention Plan

37. Continuous Sedimentation Barrier: A continuous sedimentation barrier shall be placed between Resource Areas and all construction, staging and storage areas, and access roads. Said barrier shall be maintained in good repair until removed after construction is completed and disturbed surfaces have been stabilized. Other erosion control and sedimentation practices shall be placed as shown in the construction period SWPPP and Final Plan of Record.
38. Sediment Control Measures: The perimeter sediment control measures and limit of disturbance markers or fencing shall be installed prior to alteration to wetland resource

areas, including any clearing and grubbing. No alterations to wetland resource areas shall occur beyond the limit of disturbance marked on the Final Plan of Record.

39. No Construction Period Runoff to Be Directed to the Post Construction Stormwater Controls: No construction period runoff shall be directed to the post construction stormwater control practices, including but not limited to the vegetated filter strips, deep sump catch basins, detention basins, or sand filter.
40. Controls Only in Uplands or Resource Areas Authorized to Be Altered: No construction phase stormwater control practices, including dewatering, shall be located beyond the limit of disturbance depicted on the Final Plan of Record within bordering vegetated wetlands, the Wetland Replacement area, compensatory flood storage area(s), porous pavement mitigation area, or resource areas not explicitly authorized herein.
41. Stockpile Controls: The stockpile controls described in the construction period SWPPP shall be implemented to stabilize stockpiles so they do not erode into Resource Areas or drainage structures or other conveyances draining to Resource Areas.
42. Construction period SWPPP Inspections: Inspections of the erosion and sediment control measures shall be conducted at the intervals specified in the construction period SWPPP. An up-to-date written log shall be maintained documenting the construction period SWPPP inspections conducted to the erosion and sedimentation control practices and pollution prevention measures. Inspections shall include the use of a turbidity meter to record turbidity levels during inspections conducted during storms. The construction period SWPPP inspection log or copy shall be kept on the Project Site. The construction period SWPPP inspection log shall be available for review by MassDEP, the Norwood CC, EM and WS upon request.
43. Controls and Practices Found to Be Ineffective: The Applicant shall utilize and properly maintain the erosion and sedimentation controls and practices, stabilization, and construction period pollution prevention methods specified in the construction period SWPPP. When inspection indicates the control methods utilized are not effective, the controls must be modified to address water quality concerns. When existing controls specified in the construction period SWPPP need to be modified, or if additional control practices are necessary for any reason, the modified or additional controls must be employed prior to the next storm. Additional runoff BMPs may be required beyond those specified in the construction period SWPPP in the event of turbidity, or if the visible accumulation of sediments within Resource Areas or BZs is caused by the Project. Failure to properly maintain or modify the construction period control practices in accordance with the construction period SWPPP to prevent turbidity to Resource Areas shall, without limitation, constitute noncompliance with this Variance Decision and WQC.
44. Turbidity: Construction site runoff shall be managed at all times to prevent any turbidity to Resource Areas, BZs or mitigation areas during any rainfall events. Prevention activities

shall include the following: implementation of the measures described in the construction period SWPPP; consulting the weather forecast on a daily basis; and implementation of additional controls as may be needed based on site inspection in advance of precipitation. The Project shall not result in any increase in turbidity within Resource Areas, BZs or mitigation areas during any rainfall events. Excessive turbidity in wetlands or flowing water within, or in the vicinity of the Project Site shall be presumed to have unacceptable adverse impacts on Resource Areas or BZs.

45. Maintenance of Construction Vehicles: Refueling, washing, or other maintenance of vehicles and construction equipment, shall not take place within resource areas, unless specifically approved by MassDEP in writing, except for fixed cranes or other stationary mechanized equipment. Such equipment may be re-fueled in BLSF or RA provided appropriate spill control and containment practices are utilized during fueling operations. The storage of any hazardous materials needed for construction, such as gasoline for construction vehicle fueling, shall be located outside of Bordering Vegetated Wetlands and the Buffer Zone, unless otherwise approved in writing by MassDEP.
46. Dust Control: The dust control program described in the construction period SWPPP shall be implemented during construction to prevent the suspension of airborne particulates and erosion.
47. EM Daily Review of Controls and Practices: The EM shall review the placement of erosion and sedimentation practices at the site daily to ensure that no eroded materials will reach Resource Areas. The EM may allow the Assistant EM, WS or other qualified individuals specifically approved by MassDEP in writing to assist with this duty. However, the EM is ultimately responsible for ensuring that the daily inspection occurs and is documented. Where hay bales are utilized, they shall be staked and entrenched for maximum control. Fiber coir rolls shall be staked and overlapped at all ends. Silt fencing must be of proper porosity to pass detained water without allowing suspended sediments to pass through the fence. All disturbed or exposed soil surfaces within Resource Areas shall be stabilized as determined by the EM after each workday to prevent erosion.
48. Controls and Practices Maintenance: Erosion and sedimentation control practices shall be inspected and maintained (i.e., cleaned, repaired, and revamped as needed) to assure that the controls function as designed during and after any rainfall, snow, or ice storm. The erosion and sedimentation control practices shall be maintained, reinforced, and replaced whenever necessary. Materials accumulated up-gradient of siltation barriers shall be removed as necessary and disposed of in an upland area.
49. Stabilization as Work Proceeds: Within 30 days of the completion of work in each Project segment, the disturbed area shall be permanently stabilized with landscaping. Perimeter controls shall be in place to prevent off-site migration of sediments. Continued maintenance of the Project site in a manner that assures permanent stabilization and

prevents any soil erosion shall be the responsibility of the Applicant and its successors or assigns.

50. Disposal or Reuse of Waste Including Stumps: All waste products, stumps, construction materials, etc. shall be disposed of in a manner appropriate for the material type, with the exception of stumps that have been reduced to mulch. Written records for the disposal of materials at approved landfill facilities, including the transporter's name and destination, shall be maintained and shall be made available to MassDEP, the EM, and the Norwood CC upon request.
51. Additional Controls for Emergencies and Other Circumstances: Extra erosion practices and sedimentation control materials shall be stored on-site at all times for emergency and routine replacement. Materials shall be kept covered, dry and accessible at all times. The RE and EM shall be responsible for anticipating the need for and installation of additional erosion and sedimentation controls, and the Applicant shall provide the RE and EM with the authority to require additional erosion control measures to protect the Resource Areas beyond what is shown on the plans if field conditions or professional judgment dictate that additional protection is necessary. Such controls may include, but not be limited to temporary vegetation measures, blankets, sedimentation basins or traps, silt fences, fiber coir rolls and straw bales.
52. Erosion and Sedimentation Control or Practice Failure: In the event of a significant erosion and sedimentation control failure (e.g. sedimentation to a Resource Area), MassDEP, the EM and Norwood Conservation Commission shall be notified immediately and MassDEP shall have the authority to direct immediate corrective measures and remediation. The Contractor shall immediately stabilize, control and contain any impacts.
53. No Encroachment into Resource Areas: At no time during or after construction shall fill or other materials be placed, slump into, or fall beyond the limit of grading as shown on the approved Final Plan of Record. The Contractor shall be responsible for inspecting and maintaining all slopes and walls, and shall immediately notify MassDEP, the EM, and the Norwood Conservation Commission if slumping, erosion or encroachment into Resource Areas occurs. The Contractor shall obtain prior written approval from MassDEP and shall take steps to repair or replace the slopes or walls as needed.

#### CONSTRUCTION PERIOD STOCKPILE MANAGEMENT

54. Stockpiles: When stored temporarily or permanently, the following materials shall be considered stockpiles that must be managed to prevent erosion of sediments or contamination of Resource Areas: soil, sand, earthen material or mixtures of such materials; construction debris, concrete rubble; asphalt rubble; or any other materials subject to movement during a rainfall event. Stockpiles may be managed differently at different sites along the Project alignment depending on their proximity to Resource Areas. Staging/storage/stockpile areas shall, to the extent practicable, be located further

than 50-feet from Banks and BVW not intended for disturbance, and shall not be located near catch basins or other conveyances that drain to wetland resource areas. Sediment controls may include, but are not limited to, properly installed straw or hay bales, sediment fence, and Jersey barriers lined with siltation fabric.

55. Stockpile Stabilization: Stockpiles not in active use must be stabilized as soon as practicable, but not more than 14-days after use of the stockpile ceases temporarily or permanently unless the 14<sup>th</sup> day is precluded by snow cover or frozen ground, in which case stabilization measures must be initiated as soon as practicable, or when use of the stockpile will resume by the 14<sup>th</sup> day after activities ceased.
56. Stockpile Stabilization Methods: Stockpiles to be temporarily stabilized shall be: 1) covered daily; 2) encircled with erosion controls at their base which must be maintained daily; 3) sprayed with a tackifier; 4) seeded/hydro-seeded; or 5) temporarily stabilized via other methodology acceptable to and pre-approved in writing by MassDEP. Where stockpiles cannot be located more than 50-feet from Banks and BVW or catch basins due to site constraints, they shall be encircled with sediment controls at their base which must be maintained daily. Stockpiles shall be set back at least 10-feet from the top-of-slope at any culvert being installed. Prior to a forecasted precipitation event of 1-inch or more within a 24-hour period, stockpiles located within 50 feet of Bank or BVW not intended for disturbance, streams, rivers, and culverts that convey streams or flow into or out of resource areas, or stormwater catch basins or other forms of stormwater inlets shall be: a) moved beyond 50-feet, b) used as fill (such as in a trench or for grading); or c) have the side of the stockpile facing the referenced areas temporarily stabilized with a cover or blanket. The forecast shall be obtained from the National Weather Service, Taunton office, via the internet or other available means. The length of time materials intended for reuse are stockpiled shall be minimized to the extent practicable.
57. Stockpiles In Relation to Resource Areas: Stockpiles shall be placed so that they do not drain toward Resource Areas or existing stormwater catch basin inlets or other drainage conveyances (e.g. swales or ditches) that in turn, discharge to Land Under Water or BVW. Where they cannot be placed in this manner, the side of the stockpile facing the Resource Area or drainage inlet shall be temporarily stabilized.
58. Storm Drain Controls: Any storm drain with potential to receive discharge from stockpiled materials or construction operations shall be managed to inhibit the inflow of sediment while not increasing the likelihood of street flooding during periods of precipitation. Filter fabric stretched under the storm drain inlet grate is not acceptable for this purpose.
59. Stockpile Covering: If covering is elected for stockpile stabilization, it shall consist of a durable material. Fabric that is at least 10-mil nylon reinforced poly-cover or equivalent is considered durable. If vegetative stabilization is elected for temporary stockpile stabilization, a hydromulch shall be utilized to both bond the hydroseed and stabilize the soil.

60. Manufacturer's Requirements: All erosion and sediment control products must be installed in accordance with the manufacturer's directions.

#### CONSTRUCTION PERIOD DEWATERING

61. No Dewatering in BVW: Dewatering to the extent it may be necessary must not occur in BVW except as may be otherwise approved in writing by MassDEP. During dewatering, if necessary, the discharge point shall be protected. Water from dewatering activities shall be filtered by a portable sedimentation tank that removes suspended solids, temporary sedimentation basins, or other means prior to discharge.
62. No Dewatering to Stormwater Drainage System: No dewatering may be discharged to a stormwater catch basin or other portion of a stormwater drainage system BVW except as may be otherwise approved in writing by MassDEP.
63. Resource Area Water Quality: The Applicant and contractor(s) shall maintain water quality in all water bodies affected by discharge from dewatering activities. Dewatering shall not result in any increase in turbidity to Resource Areas, BZs or mitigation areas.
64. Sedimentation Tanks: Sediment tanks used for dewatering shall be monitored daily and cleaned when accumulated sediment constitutes  $\frac{1}{4}$  of the effective tank depth. A written record of such monitoring shall be maintained at the Project Office and be available for inspection by MassDEP, the EM, and the Norwood CC.

#### ABANDONMENT OF EXISTING DRAINAGE SYSTEM

65. Abandonment of Existing Drainage System: Any portion of the existing stormwater drainage system, including but not limited to catch basins, manholes, and drainage pipes, not to be incorporated into the new stormwater drainage system depicted on the Final Plan of Record, shall be properly abandoned through removal, or backfilling with flowable concrete.

#### POST CONSTRUCTION

66. Removal of Temporary Erosion and Sediment Control Practices: Upon final stabilization of disturbed surfaces, all temporary erosion and sedimentation control practices shall be removed and disposed of in a legal manner. Straw bales, silt fence and fiber coir rolls shall not be disposed of in Resource Areas. MassDEP will not issue any Certificates of Compliance for completed segments of the Project until corresponding temporary erosion and sedimentation control practices are removed.

67. Final Stabilization: Following completion of all work and permanent site stabilization, the construction area shall be completely cleaned, cleared of construction equipment, stockpiled material, and debris before the Contractor leaves the Project Site.
68. Long Term Pollution Prevention Plan (LTPPP): The Airport shall submit to Mass DEP for review and written approval at least 10 days prior to the scheduling of the Preconstruction Meeting. The written inspection reports shall be made available upon request to MassDEP and the Norwood CC. Proposed changes to the LTPPP shall be submitted in writing for prior review and written approval. This requirement is ongoing and does not expire upon the completion of the Project or the issuance of a COC. MassDEP will include a continuing condition in the COC requiring ongoing compliance with the LTPPP.
69. NPDES Permits: This Variance Decision and WQC do not reduce, relax, vary or otherwise waive requirements under the EPA/MassDEP jointly issued NPDES Municipal Separate Storm Sewer System (MS4) General Permit, Multi-Sector General Permit, and Construction General Permit. In the event of a conflict between requirements of this Variance Decision and WQC and the referenced General Permits, the Applicant shall follow the more stringent requirement.

#### CERTIFICATE OF COMPLIANCE (COC)

70. COC Submittal Requirements: Upon completion of all work subject to this Variance Decision and WQC, the Applicant shall submit a request for a COC containing the following information to MassDEP and the EM, with copies sent to the Norwood CC:
- a. A written statement by a Professional Engineer or Land Surveyor, registered in the Commonwealth of Massachusetts, certifying that the Project has been developed in compliance with all of the terms and conditions of this Variance Decision and WQC and the plans referred to in this Variance Decision and WQC include the Special and General Conditions. The request for COC shall state how any portion of the stormwater drainage system not incorporated into the new drainage system approved herein was abandoned. Any existing deviations from these terms and conditions must be described in detail.
  - b. As-built plans prepared by a Land Surveyor or Professional Engineer registered in the Commonwealth of Massachusetts showing the location, size and internal elevations of: wetland fill area(s), Wetland Replacement area; compensatory flood storage area(s); and the stormwater mitigation features including the porous pavement in the parking lot.
  - c. A report by a WS describing the condition of the Resource Areas not proposed to be disturbed that remain on the Project Site, the Wetland Replacement area, the BZ's that were disturbed and restored, the wetland resource areas that were temporarily impacted and restored, and the stormwater mitigation features. Said WS report shall include a professional opinion as to whether these specified

resource areas meet all requirements of the Variance Decision and WQC and commitments made in the application and whether the remaining wetlands not approved for alteration were adequately protected. The EM shall review the WS recommendations, the Wetland Replacement area, compensatory flood storage and the stormwater mitigation and provide recommendations to MassDEP. The Applicant shall submit to MassDEP for review and approval proposed remediation if required by MassDEP based upon the report.

d. A completed copy of the Construction Period Submittal Checklist in Appendix C.

71. Documentation of COC Recording: The COC shall be recorded at the Registry of Deeds. Certification of recording shall be sent to the MassDEP on Wetlands Form 8b <https://www.mass.gov/lists/wetlands-permitting-forms>. All on-going Variance Decision and WQC requirements shall be incorporated in the COC as continuing conditions.





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8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):

See Variance Submittals and Final Permitting Plan of Record listed in Appendix A

a. Plan Title

*Norwood Memorial Airport Environmental Permitting TW  
 'C' Realignment and Runway 17-35 Paved Safety Areas AIP No. 3-  
 25-0037-XX-2021 Revised 2/23/2022*

c. Signed and Stamped by

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

**B. Findings**

1. Findings pursuant to the Massachusetts Wetlands Protection Act:

Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, the MassDEP finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:

- a.  Public Water Supply
- b.  Land Containing Shellfish
- c.  Prevention of Pollution
- d.  Private Water Supply
- e.  Fisheries
- f.  Protection of Wildlife Habitat
- g.  Groundwater Supply
- h.  Storm Damage Prevention
- i.  Flood Control

2. The Department hereby finds the project, as proposed, is: (check one of the following boxes)

**Approved** subject to:

- a.  the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. The Department orders that all work shall be performed in accordance with the Notice of Intent and Variance referenced above, and the following General and Special Conditions of this Variance Order. In the event of a conflict between the General and Special Conditions, the Special Conditions shall control. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these General and Special Conditions shall control.

**Denied** because:

- b.  the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**



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- c.  the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

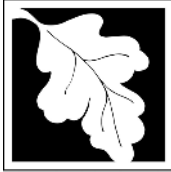
3.  Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) 0  
 a. linear feet

**Inland Resource Area Impacts:** Check all that apply below. (For Approvals Only)  
 Permanent/Temporary Permanent=Perm. or P Temporary =Temp. or T

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input type="checkbox"/> Bank	<u>0</u> a. linear feet	<u>                    </u> b. linear feet	<u>                    </u> c. linear feet	<u>0</u> d. linear feet
5. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	<u>31,045 Perm (+3,610 Temp)</u> a. square feet	<u>31,045 Perm (+3,610 Temp)</u> b. square feet	<u>62,090 Perm (+3,610 Temp. restore)</u> c. square feet	<u>62,090 Perm (+3,610 Temp. restore)</u> d. square feet
6. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	<u>123</u> a. square feet <u>0</u> e. c/y dredged	<u>123</u> b. square feet <u>                    </u> f. c/y dredged	<u>113</u> c. square feet	<u>113</u> d. square feet
7. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	<u>386,972</u> a. square feet	<u>386,972</u> b. square feet	<u>386,972</u> c. square feet	<u>386,972</u> d. square feet
Cubic Feet Flood Storage	<u>118,773</u> e. cubic feet	<u>118,773</u> f. cubic feet	<u>118,773</u> g. cubic feet	<u>118,773</u> h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	<u>0</u> a. square feet	<u>                    </u> b. square feet		
Cubic Feet Flood Storage	<u>0</u> c. cubic feet	<u>                    </u> d. cubic feet	<u>                    </u> e. cubic feet	<u>                    </u> f. cubic feet
9. <input type="checkbox"/> Riverfront Area	<u>0</u> a. total sq. feet	<u>                    </u> b. total sq. feet		
Sq ft within 100 ft	<u>0</u> c. square feet	<u>                    </u> d. square feet	<u>                    </u> e. square feet	<u>                    </u> f. square feet
Sq ft between 100-200 ft	<u>0</u> g. square feet	<u>                    </u> h. square feet	<u>                    </u> i. square feet	<u>                    </u> j. square feet

**Coastal Resource Area Impacts:** Check all that apply below. (For Approvals Only) none

Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
---------------------	----------------------	----------------------	-----------------------



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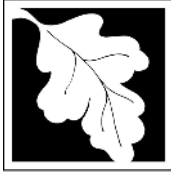
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10.  Designated Port Areas  
 Indicate size under Land Under the Ocean, below
11.  Land Under the Ocean  
 0  
 a. square feet      b. square feet  
 0  
 c. c/y dredged      d. c/y dredged
12.  Barrier Beaches  
 Indicate size under Coastal Beaches and/or Coastal Dunes below
13.  Coastal Beaches  
 0  
 a. square feet      b. square feet      c. nourishment cu yd      d. nourishment cu yd
14.  Coastal Dunes  
 0  
 a. square feet      b. square feet      c. nourishment      d. nourishment
15.  Coastal Banks  
 0  
 a. linear feet      b. linear feet
16.  Rocky Intertidal Shores  
 0  
 a. square feet      b. square feet
17.  Salt Marshes  
 0  
 a. square feet      b. square feet      c. square feet      d. square feet
18.  Land Under Salt Ponds  
 0  
 a. square feet      b. square feet  
 0  
 c. c/y dredged      d. c/y dredged
19.  Land Containing Shellfish  
 0  
 a. square feet      b. square feet      c. square feet      d. square feet
20.  Fish Runs  
 Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above
21.  Land Subject to Coastal Storm Flowage  
 0  
 a. c/y      b. c/y dredged  
 0  
 a. square feet      b. square feet

\* #22. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Marsh) above, please enter

22.  Restoration/Enhancement \*:  
 n/a  
 a. square feet of BVW      b. square feet of salt marsh
23.  Stream Crossing(s):  
 n/a  
 a. number of new stream crossings      b. number of replacement stream crossings

**C. General Conditions Under Massachusetts Wetlands Protection Act**



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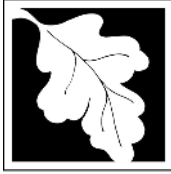
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the additional  
amount here

**The following conditions are only applicable to Approved projects.**

1. Failure to comply with all General and Special Conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
  - a. the work is a maintenance dredging project as provided for in the Act; or
  - b. the time for completion has been extended to a specified date more than three years, but less than ten years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order. **This Order is extended for five years from the date of issuance, including the wetland boundary confirmed during the Variance Review.**
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected properties. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the MassDEP on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,



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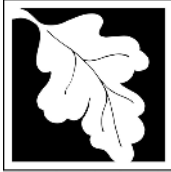
“Massachusetts Department of Environmental Protection” [or, “MassDEP”]

“File Number                    SE 251-0528”

11. Where there is an appeal, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the MassDEP.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Appendix A and Condition #8 above shall require the applicant to inquire of the MassDEP in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work within or adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the MassDEP.
18. All erosion and sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the MassDEP and the Conservation Commission, which reserve the right to require additional erosion control and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

**NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS**

19. **The work associated with this Order (the “Project”) (1) is  (2) is not  subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater**



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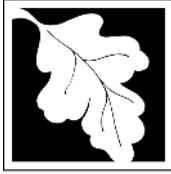
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**Standards, then the project is subject to the following conditions:**

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by the Stormwater Special Conditions. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:
- i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
  - ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
  - iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
  - iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
  - v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.
- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another



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entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 19(k) with respect to that BMP shall be a violation of the Final Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.
- g) The responsible party shall:
1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
  2. Make the maintenance log available to MassDEP and the Conservation Commission (“Commission”) upon request; and
  3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system required by this Order shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.



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Special Conditions (if you need more space for additional conditions, please attach a text document):

**See attached Special Conditions 1-71.**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**D. Findings Under Municipal Wetlands Bylaw or Ordinance**

The Department acknowledges that there is a municipal bylaw or ordinance in effect.

To the extent that the Order is based on a municipal bylaw or ordinance, and not on the Massachusetts Wetlands Protection Act or regulations, the Massachusetts Department of Environmental Protection has no appellate jurisdiction.

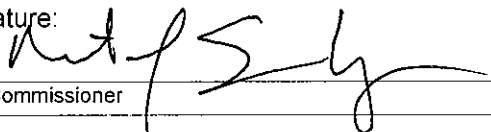
**E. Issuance**

This Variance Order is valid for five years, as specified in Special Condition #5, from the date of issuance.

1. Date of Issuance

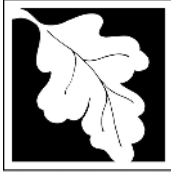
The Variance Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the conservation commission, appellant, and the property owner, if different from the applicant.

Issued by the Massachusetts Department of Environmental Protection

Signature:   
 Commissioner

Date: 7/27/2022

This Order is issued to the applicant as follows:



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by hand delivery on:

by certified mail, return receipt requested on:

\_\_\_\_\_ Date

\_\_\_\_\_ Date

**F. Appeals**

SEE VARIANCE SECTION F. FOR APPEAL INSTRUCTIONS

**G. Recording Information**

Prior to commencement of work, this Variance Order of Conditions, including its Special Conditions, must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the MassDEP Office listed below.

MassDEP, Wetlands Program, 1 Winter Street, Boston, MA 02108  
 Office of the Massachusetts Department of Environmental Protection

Detach on dotted line, have stamped by the Registry of Deeds and submit to the MassDEP.

To:

MassDEP, Wetlands Program, 1 Winter St., Boston, MA 02108  
 Regional Office of the Massachusetts Department of Environmental Protection

Please be advised that the Variance Order of Conditions for the Project at:  
 Norwood Memorial Airport, 111 Access Road, Norwood MA

Project Location

SE 251-0528

MassDEP File Number

Has been recorded at the Registry of Deeds of:

\_\_\_\_\_ County

\_\_\_\_\_ Book

\_\_\_\_\_ Page

for:

\_\_\_\_\_ Property Owner

and has been noted in the chain of title of the affected property in:

\_\_\_\_\_ Book

\_\_\_\_\_ Page

In accordance with the Variance Order of Conditions issued on:



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Date

If recorded land, the instrument number identifying this transaction is:

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Instrument Number

If registered land, the document number identifying this transaction is:

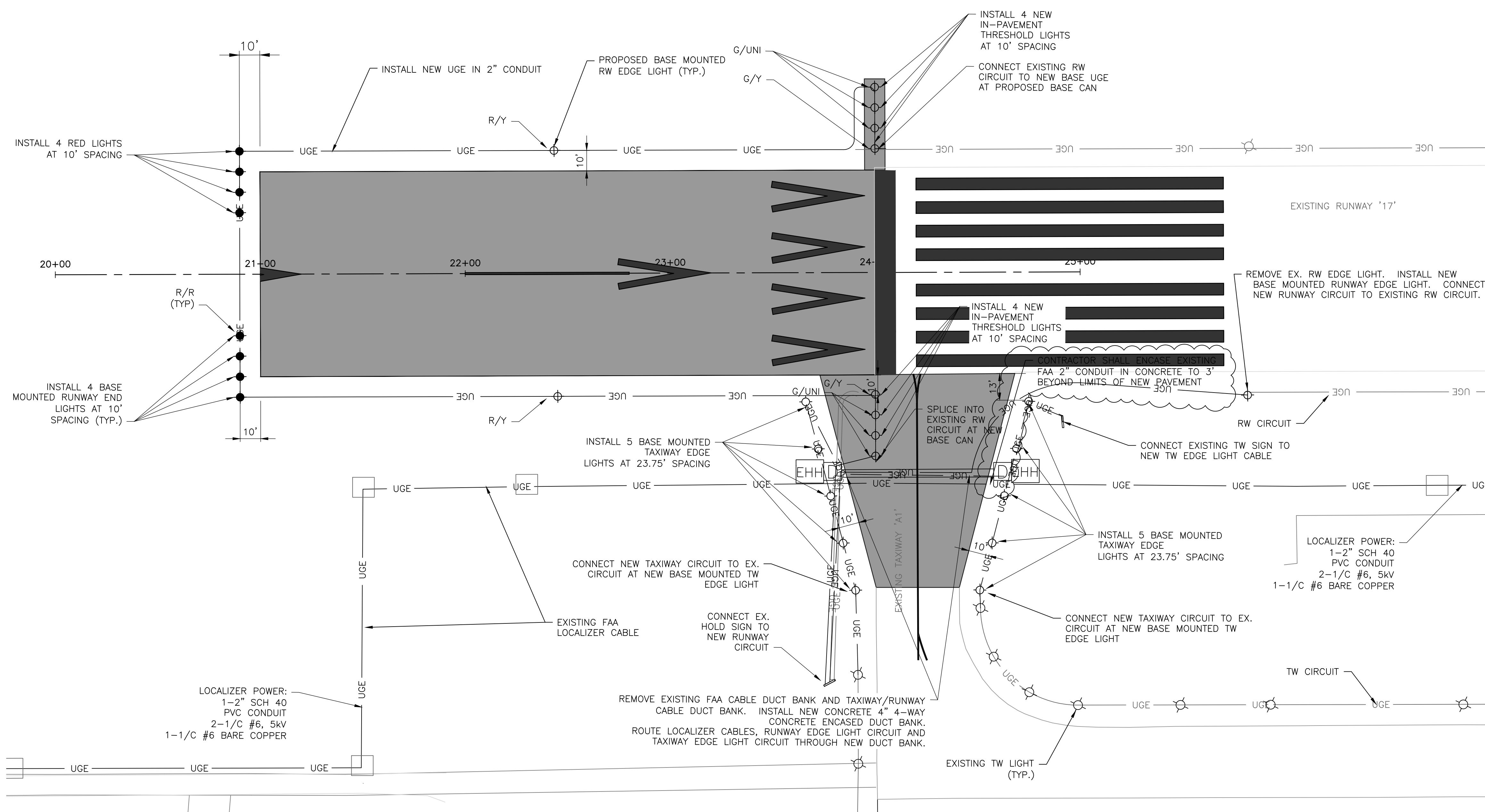
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Document Number

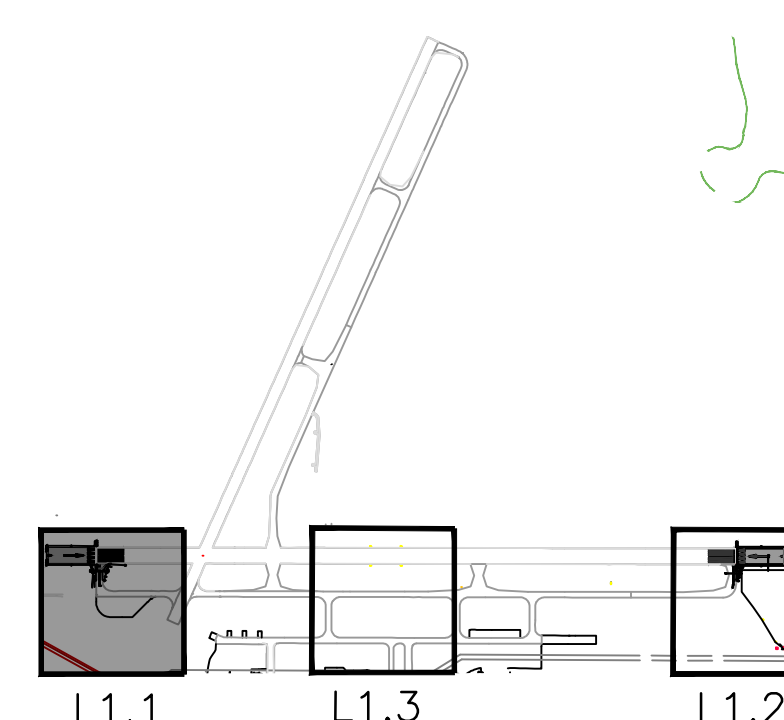
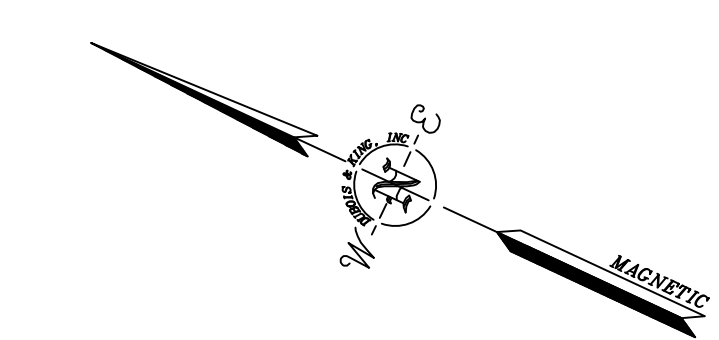
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Signature of Applicant





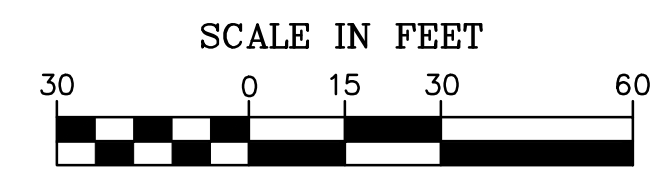
LIGHTING PLAN FOR RW "17" EXTENSION



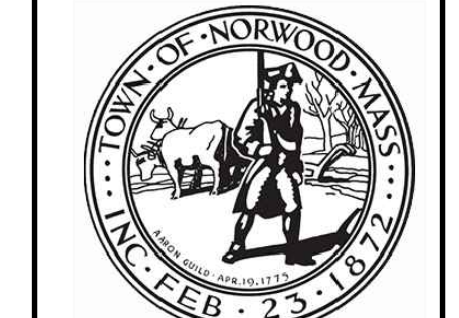
**LEGEND**

	PROPOSED PAVEMENT EDGE
	EXISTING PAVEMENT EDGE
	EXISTING UNDERGROUND POWER AND COUNTERPOISE
	PROPOSED UNDERGROUND POWER AND COUNTERPOISE
	EXISTING BASE MOUNTED RW EDGE LIGHT
	PROPOSED BASE MOUNTED RW EDGE LIGHT
	PROPOSED BASE MOUNTED R/R RW END LIGHT
	PROPOSED DUCT
	EXISTING DUCT
	PROPOSED ELECTRICAL HANDHOLE
	RED / YELLOW LENS
	GREEN / YELLOW LENS
	GREEN UNIDIRECTIONAL LENS
	RED LENS

- NOTES:**
- ALL UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN ON THESE DRAWINGS MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. HAND DIGGING SHALL BE PERFORMED AS NECESSARY TO AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL CONTACT DIGSAFE TEL. 888-DIGSAFE(344-7233). FOR ASSISTANCE IN LOCATING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
  - REFER TO DEMOLITION PLANS FOR REMOVAL OF EXISTING ELECTRICAL ITEMS.
  - EXTEND DUCT BANK 5 FEET PAST EDGE OF PAVEMENT.
  - AT BASES REFERENCING THIS NOTE, CORE DRILL INTO EXISTING BASE AND INSTALL PROPOSED CONDUIT.



**DuBois & King inc.**  
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT  
10 CORPORATE DR., SUITE 210  
BEDFORD, NH 03110  
TEL: (603) 444-6578  
FAX: (603) 483-7101  
www.dubois-king.com  
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BY	CK'D	
DATE	4/16/2026	
NO.	1	
DESCRIPTION	CONCRETE ENCASE EX. FAA CONDUIT UNDER PAVEMENT	

**NORWOOD MEMORIAL AIRPORT**  
111 ACCESS ROAD  
BUILDING #9  
NORWOOD, MA

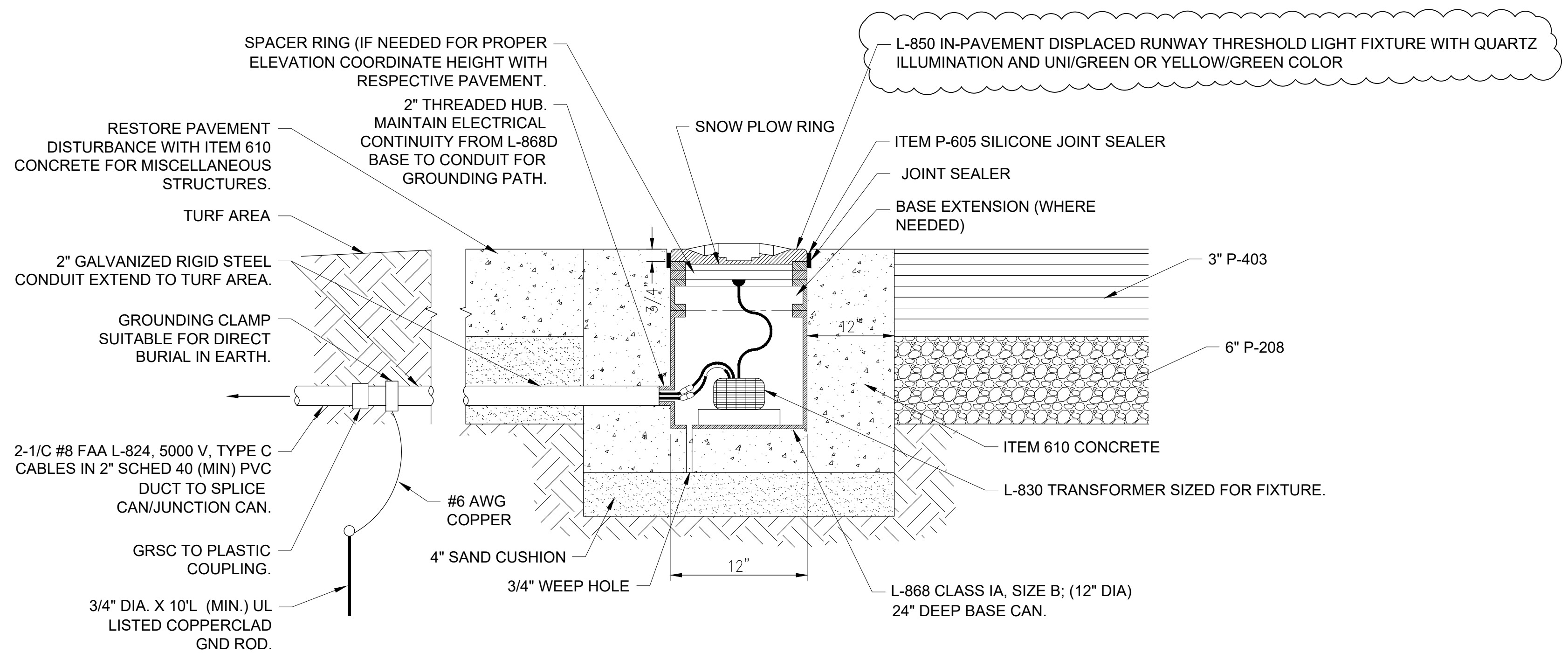
**CONSTRUCT RUNWAY 17-35 EXTENSION (600' x 100')**

**SHEET TITLE**  
RUNWAY 17 EXTENSION LIGHTING PLAN

DRAWN BY	DATE
DSP	MAR. 2026
CHECKED BY	D&K PROJECT #
JAA	329163
PROJ. ENG.	D&K ARCHIVE #
MCG	

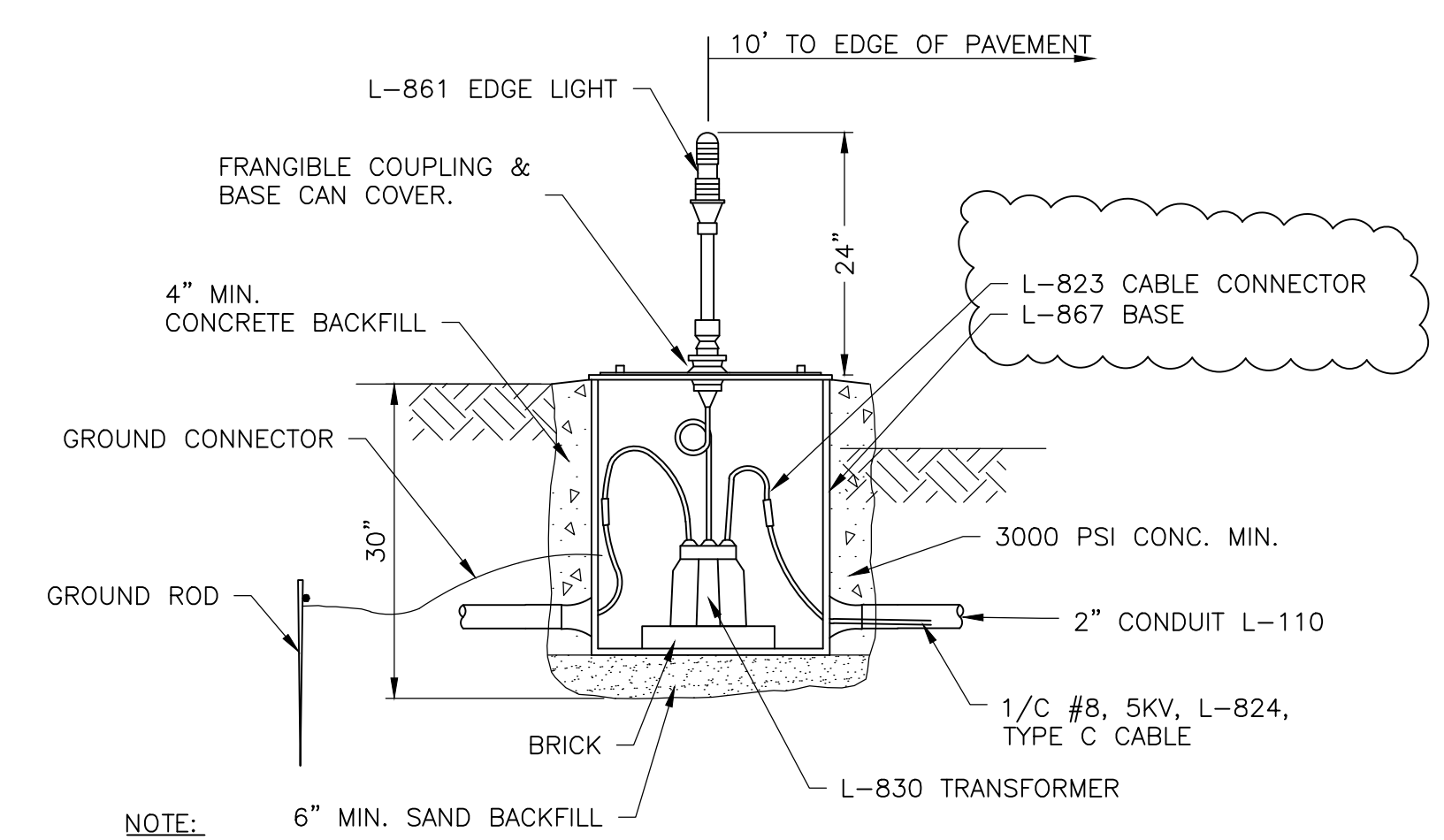
**SHEET NUMBER**  
**L1.1**

I:\3\329163 - Norwood Airport Runway 17-35 Extension\Drawings\329163\_FDE\_Light.dwg FEBRUARY 2024



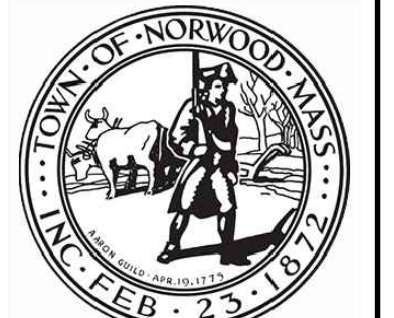
**MEDIUM INTENSITY IN-PAVEMENT RUNWAY LIGHT**  
NOT TO SCALE

NOTE:  
1. MEDIUM INTENSITY IN-PAVEMENT RUNWAY LIGHT SHALL BE AN L-850 QUARTZ IN-PAVEMENT LIGHT UNI/GREEN OR YELLOW/GREEN LENS COLOR.



**BASE MOUNTED EDGE LIGHT FIXTURE**  
NOT TO SCALE

- NOTE:
1. THE TOLERANCE FOR LATERAL SPACING IS 1".
  2. IN ACCORDANCE WITH AC 150/5340-30J, LIGHT FIXTURES SHALL BE BONDED TO THE LIGHT BASE INTERNAL LUG VIA A NO. 8 AWG STRANDED COPPER WIRE RATED FOR 600V WITH GREEN XHHW, THWN-2 OR OTHER SUITABLE INSULATION, OR A BRAIDED GROUND STRAP OF EQUIVALENT RATING. THE BONDING CONDUCTOR LENGTH MUST BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE.



NO.	DATE	DESCRIPTION	BY	CHK'D

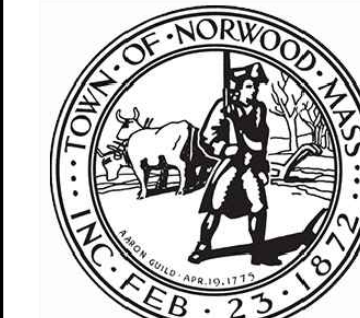
NORWOOD  
MEMORIAL  
AIRPORT  
111 ACCESS ROAD  
BUILDING #9  
NORWOOD, MA

CONSTRUCT  
RUNWAY 17-35  
EXTENSION  
(600' x 100')

SHEET TITLE  
LIGHTING &  
ELECTRICAL  
DETAILS (2 OF 2)

DRAWN BY	DATE
DSP	MAR. 2026
CHECKED BY	D&K PROJECT #
JAA	329163
PROJ. ENG.	D&K ARCHIVE #
MCG	

SHEET NUMBER  
**L2.2**  
SHEET 26 OF 43



NO.	DATE	DESCRIPTION	BY	CHKD
1	4/16/2026	SEPARATED POWER AND CONTROL INTO SEPARATE CONDUIT AND HANDHOLES	MCG	

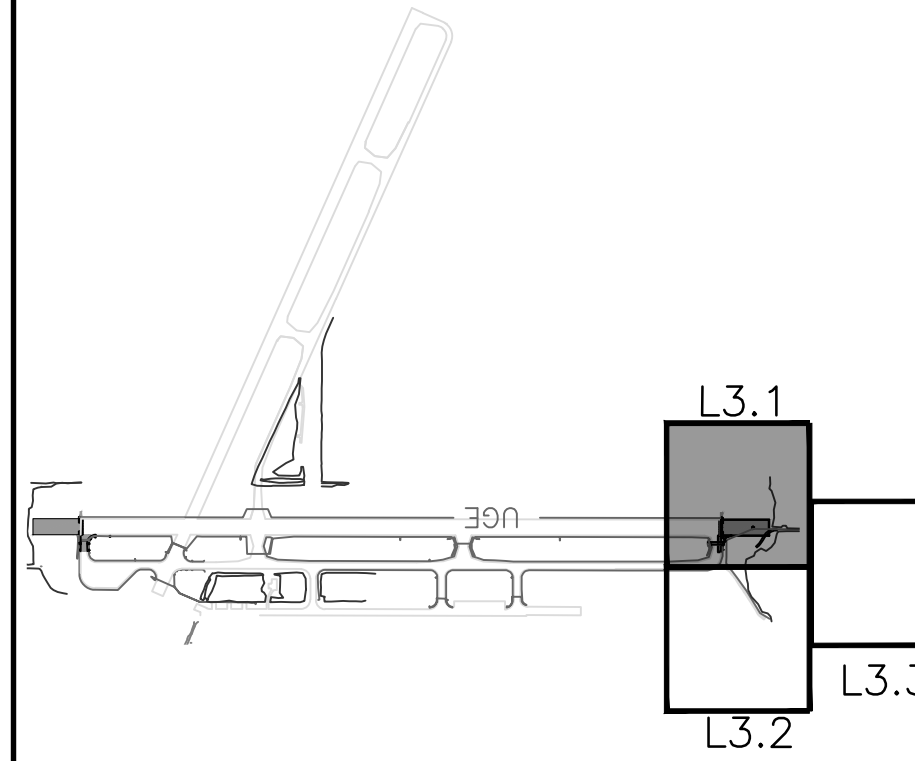
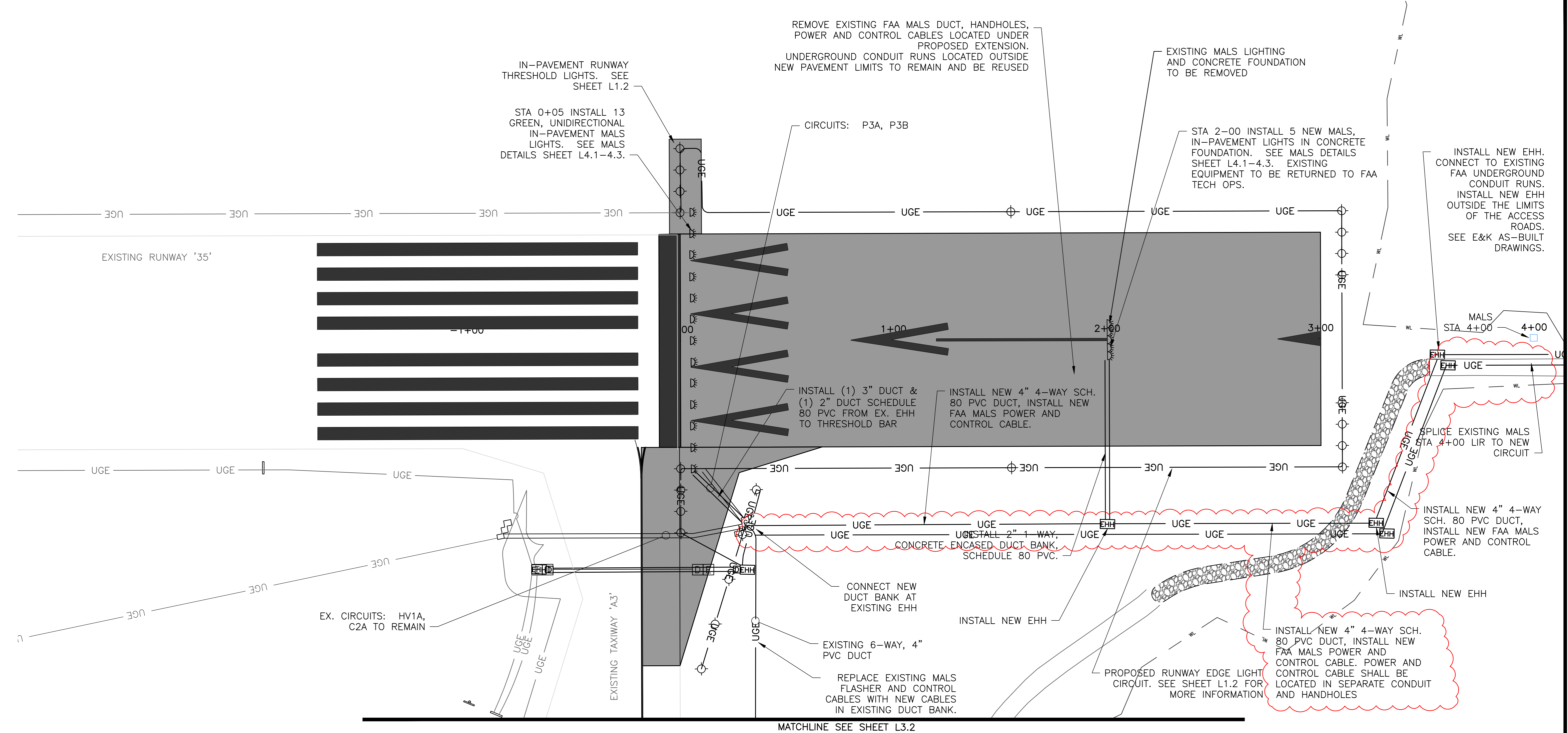
**NORWOOD MEMORIAL AIRPORT**  
111 ACCESS ROAD  
BUILDING #9  
NORWOOD, MA

**CONSTRUCT RUNWAY 17-35 EXTENSION (600' x 100')**

**SHEET TITLE**  
MALS MODIFICATION PLAN (1 OF 3)

DRAWN BY	DATE
DSP	MAR. 2026
CHECKED BY	D&K PROJECT #
JAA	329163
PROJ. ENG.	D&K ARCHIVE #
MCG	

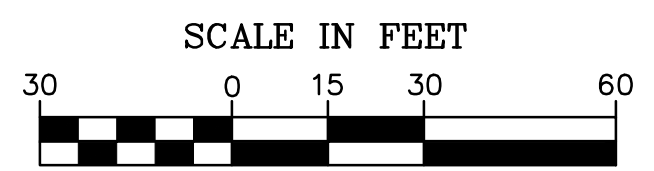
**SHEET NUMBER**  
**L3.1**  
SHEET 27 OF 43



**LEGEND**

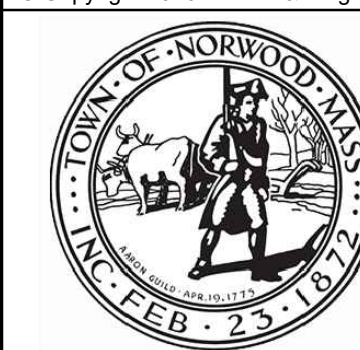
- PROPOSED PAVEMENT EDGE
- EXISTING PAVEMENT EDGE
- UGE — PROPOSED UNDERGROUND POWER AND COUNTERPOISE
- UGE — EXISTING UNDERGROUND POWER AND COUNTERPOISE
- [EHH] — [EHH] PROPOSED ELECTRICAL HANDHOLE
- ⊗ PROPOSED STAKE MOUNTED RW EDGE LIGHT
- ⊗ EXISTING STAKE MOUNTED RW EDGE LIGHT

- NOTES:**
- ALL UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN ON THESE DRAWING MAY EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. HAND DIGGING SHALL BE PERFORMED AS NECESSARY TO AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL CONTACT DIGSAFE TEL. 888-DIGSAFE(344-7233). FOR ASSISTANCE IN LOCATING UTILITIES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
  - REFER TO DEMOLITION PLANS FOR REMOVAL OF EXISTING ELECTRICAL ITEMS.
  - EXTEND DUCT BANK 5 FEET PAST EDGE OF PAVEMENT.
  - AT BASES REFERENCING THIS NOTE, CORE DRILL INTO EXISTING BASE AND INSTALL PROPOSED CONDUIT.



**MALS LIGHTING SYSTEM CONSTRUCTION**

- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH FAA TECH OPS PRIOR TO AND DURING THE REPLACEMENT OF THE MALS LIGHTS AND CABLES.
  - CONTRACTOR TO REMOVE EXISTING MALS LIGHTS AT STATIONS 0+10 AND 2+00.
  - ALL OTHER MALS LIGHTS TO REMAIN AS IS.
  - CONTRACTOR TO REMOVE EXISTING MALS CABLES AND DUCT LOCATED UNDER PROPOSED PAVEMENTS.
  - CONTRACTOR TO INSTALL NEW DUCT LOCATED OUTSIDE PAVEMENT LIMITS.
  - CONTRACTOR TO REMOVE AND REPLACE POWER CABLES TO ALL MALS LIGHTS, INCLUDING NEW IN-PAVEMENT LIGHTS AND EXISTING MALS LIGHTS.
  - CONTRACTOR TO RETURN ALL LAMPHOLDERS FROM THRESHOLD LIGHTS AND STATION 2 TO THE SSC FOR SALVAGE.
  - ALL TESTS TO CABLES, EQUIPMENT AND EARTH ELECTRODE SYSTEMS MUST BE PERFORMED IN THE PRESENCE OF THE COR OR RE. TESTS CONDUCTED WITHOUT THE COR OR RE PRESENT WILL BE REJECTED. CONTRACTOR MUST PERFORM INSULATION RESISTANCE TESTS ON ALL WIRES INSTALLED. CONTROL CABLE MUST BE TESTED PER FAA ORDER 6000.204, CHAPTER 3, PARAGRAPH 10, SECTIONS A, B AND C. POWER CABLE MUST BE TESTED PER FAA ORDER 6950.22A, CHAPTER 3, PARAGRAPHS 3-2, 3-4 AND 3-5 AS APPLICABLE. THE CORRECT TESTING VOLTAGE MUST BE SELECTED USING THE GUIDANCE PROVIDED IN THE ORDER S TO PREVENT DAMAGE TO CABLE INSULATION.
  - ALL LIGHT FIXTURES, TRANSFORMERS, WIRING ETC. TO BE CONTRACTOR FURNISHED AND INSTALLED.



BY	CKD
DATE	
NO.	
DESCRIPTION	

NORWOOD MEMORIAL AIRPORT  
111 ACCESS ROAD  
BUILDING #9  
NORWOOD, MA

CONSTRUCT RUNWAY 17-35  
EXTENSION (600' x 100')

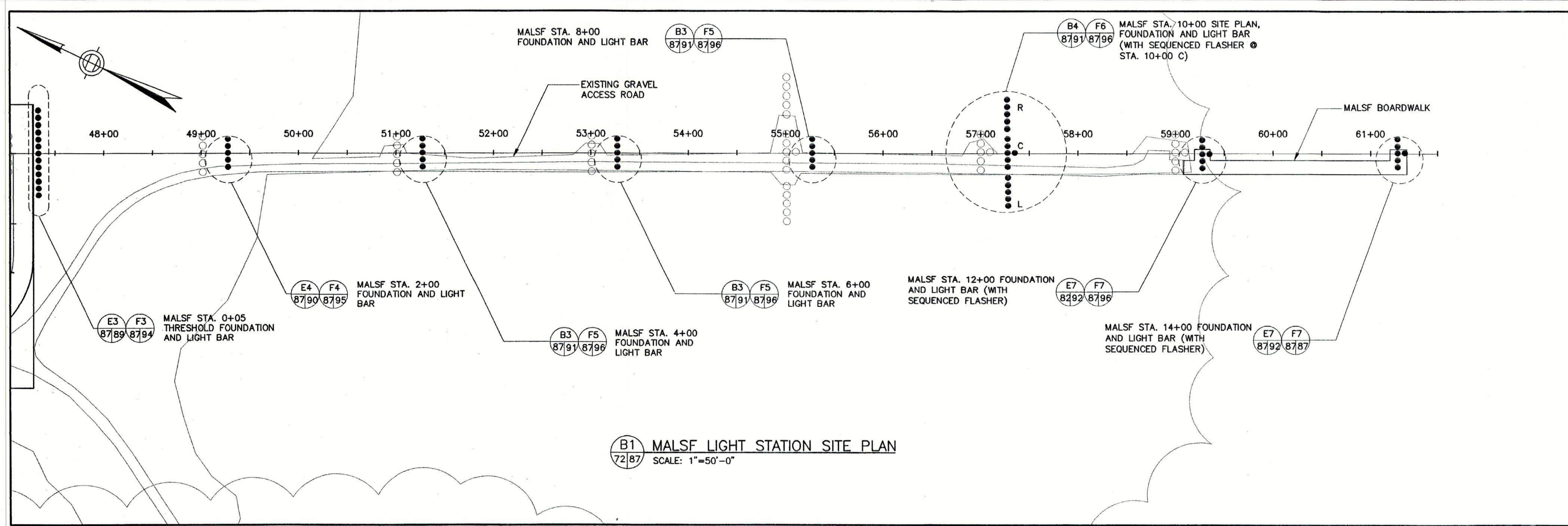
SHEET TITLE  
MALS ELECTRICAL MODIFICATIONS (3 OF 9)

DRAWN BY	DATE
DSP	MAR. 2026
CHECKED BY	D&K PROJECT #
JAA	329163
PROJ. ENG.	D&K ARCHIVE #
MCG	

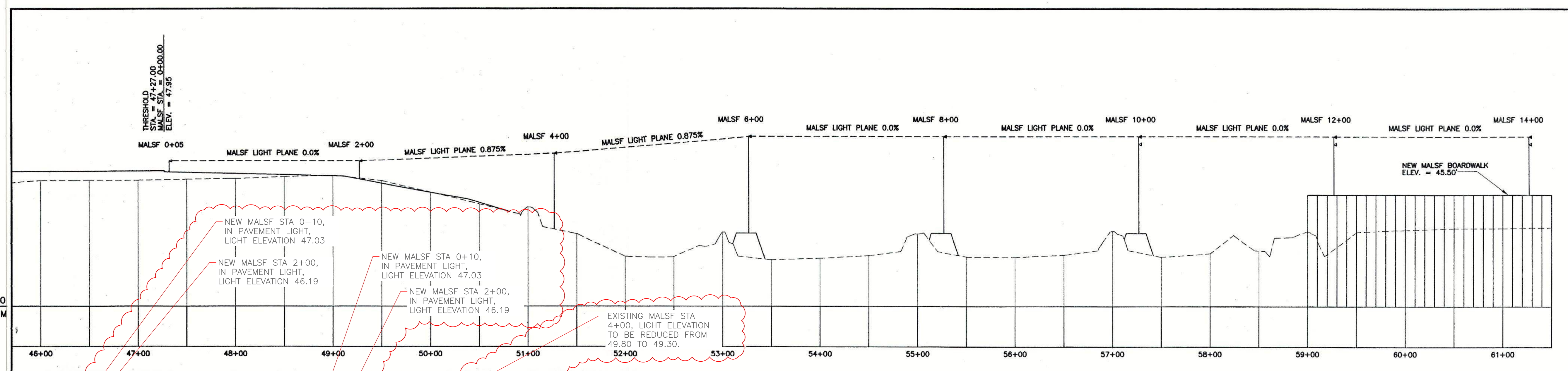
SHEET NUMBER

**L5.3**

SHEET 35 OF 43



**B1** MALS LIGHT STATION SITE PLAN  
SCALE: 1"=50'-0"



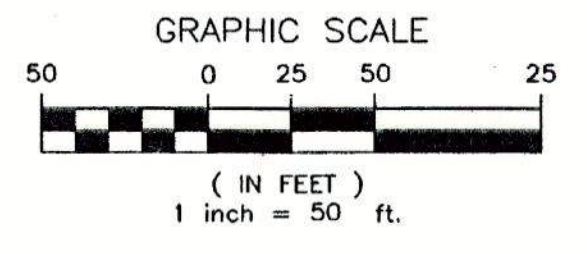
**B5** MALS LIGHT STATION CENTERLINE PROFILE  
SCALE: 1"=50'-0"

**LEGEND:**

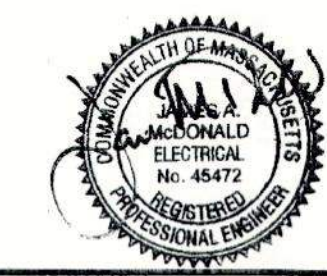
MALS STATION	RUNWAY STATION	TYPE	TOP OF FOUNDATION ELEVATION	LIGHT PLANE ELEVATION	STRUCTURE/MOUNT TYPE	STRUCTURE HEIGHT (FEET)	AIMING ANGLE
0+05	47+32	THRESHOLD	48.0	49.0	FRANGIBLE EMT	1.0	3.1'
2+00	49+27	MALSF	46.8	49.0	FRANGIBLE EMT	2.2	3.2'
4+00	51+27	MALSF	43.5	49.8	MG-20 LIR TOWER	8.0	3.3'
6+00	53+27	MALSF	43.5	51.5	MG-20 LIR TOWER	10.0	3.4'
8+00	55+27	MALSF	43.5	51.5	MG-20 LIR TOWER	10.0	3.4'
10+00	57+27	MALSF	43.5	51.5	MG-20 LIR TOWER (3)	10.0	3.5'
12+00	59+27	MALSF	45.5	51.5	MG-20 LIR TOWER	6.0	3.6'
14+00	61+27	MALSF	45.5	51.5	MG-20 LIR TOWER	6.0	3.7'
10+00	57+27	FLASHER	SAME AS MALSF	50.5	SAME AS MALSF	SAME AS MALSF	6.0'
12+00	59+27	FLASHER	SAME AS MALSF	50.5	SAME AS MALSF	SAME AS MALSF	6.0'
14+00	61+27	FLASHER	SAME AS MALSF	50.5	SAME AS MALSF	SAME AS MALSF	6.0'

AS CONSTRUCTED PLANS  
I hereby certify that all construction required by this sheet has been accomplished as indicated hereon.  
BY: *[Signature]* EDWARDS AND KELCEY, INC. DATE: 5/17/04

REFERENCE ELEVATION: RUNWAY 35 THRESHOLD @ CENTERLINE (MALS STATION 0+00): 48.0 FEET MSL  
\* TOP OF BOARD WALK PLATFORM DECKING AT STATIONS 12+00 AND 14+00.



SUBMITTED BY:  
EDWARDS AND KELCEY



1	AS-CONSTRUCTED	BCC	CAS	11/02
NO.	REVISIONS	BY	APP.	DATE

TOWN OF NORWOOD  
AIP NO. 3-25-0037-18

NORWOOD MEMORIAL AIRPORT  
NORWOOD, MASSACHUSETTS

MEDIUM INTENSITY APPROACH LIGHT SYSTEM WITH SEQUENCED FLASHING LIGHTS (MALSF)

**FACILITY SITE PLAN AND PROFILE**

**Edwards and Kelcey**

DESIGNED: JWM DATE: 03/02 SCALE: AS SHOWN  
DRAWN: NRT DATE: 03/02 DRAWING NO.:  
CHECKED: CAS DATE: 03/02 SHEET NO.: 87 OF 101