TOWN OF PLYMOUTH PLYMOUTH MUNICIPAL AIRPORT

CONSTRUCT, MARK, AND LIGHT TAXIWAY 'E' EXTENSION (APPROX. 500' X 35')

AIP No. 3-25-0042-53-2021

ADDENDUM No. 3

Date: December 22, 2020

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.

BID OPENING TIME CHANGE, AND VIDEOCONFERENCE INFORMATION

 Sealed bids for "Construct, Mark, and Light Taxiway E (500LF X 35 FT);" at the Plymouth Municipal Airport, prepared in accordance with instructions and other provisions of the Contract Documents, will be received by the Plymouth Airport Commission at the office of the Airport Manager, Plymouth Airport, 246 South Meadow Road, Plymouth, Massachusetts 02360 until 11:00 AM local time, on Friday, January 8, 2021 at which time and place all bids will be publicly opened and read aloud via a virtual video conference. Bids submitted after this time will not be accepted.

to Join the Video Conference, use the following Google Meet Meeting ID:

meet.google.com/zup-tmsj-tje

Phone Number: +1 347-363-4467 PIN: 413 794 569#

SPECIFICATIONS

1. Bid Form:

Add the existing bid forms with the attached bid forms.

Revised Quantities for Bid Items as follows:

P-150-4.1	Pavement Marking Removal	550	SF
P-401-8.1	Bituminous Pavement - Binder Course	340	TON
P-401-8.2	Bituminous Pavement - Wearing Course	340	TON
P-605-5.1	Sawcut Existing Pavement	250	LF
P-620-5.1	Yellow Paint	1030	SF
P-620-5.3	Black Paint	1790	SF
L-110-5.1	4" 4-Way Concrete Encased Electrical Duct Bank	120	LF
L-115-5.1	Electrical Handhole	5	EA
L-125-5.2	Install New Taxiway Edge Light- LED Lamp, Base Mounted	26	EA
L-125-5.4	Install New Guidance Sign	2	EA
T-901-5.1	General Seeding	3.6	AC
T-905-5.1	Topsoiling	1470	CY
T-908-5.1	Mulching	3.6	AC

The following Bid Items have been removed:

M-828-5.1	Install Retroreflective Metal Sign
P-150-4.7	Remove Existing Flush Mounted RW Light With Base
P-154-5.2	Geogrid
L-125-5.7	Install New L-858R Unlighted Instructional Sign
P-620-5.2	White Paint
L-108-5.1	Cable Trench

The Following Bid Items have been added:

L-125-5.7	Install Foundation for Future Guidance Sign	1	EA
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2. **REPLACE** Information for Bidders Page Two and MassDOT required forms

Item 9 - Time of Completion has now been changed to 45 days instead of 65 days.

3. **REPLACE** Contract Agreement Page Two

Article 5 – Contract Time has been changed to **45 days**.

4. **REPLACE** Notice to Proceed

Completion has been changed to 45 days.

PLYMOUTH MUNICIPAL AIRPORT TW 'E' EXTENSION ADDENDUM No. 3

2. Technical Specifications:

Revise Section L-125 to remove:

L-125-5.7 Install New L-858R Unlighted Instructional Sign

Revise Section L-125 to include:

L-125-5.7 Install Foundation for Future Guidance Sign

DRAWINGS

- 1. Drawing G1.1 has been revised to update the index of drawings and indicate that the AIP No. is assumed.
- 2. Drawing G1.2 has been revised to remove the previous proposed threshold light removal work on RW 6-24, and to clarify that the haul road from Gate 0 is not paved.
- 3. Drawing G1.3 has been revised to remove the previous proposed threshold light removal work on RW 6-24, and to clarify that the haul road from Gate 0 is not paved.
- 4. Drawing G1.4 has been revised to show the new bid quantities.
- 5. Drawing G1.5 has been revised to clarify security notes.
- 6. Drawing S1.1 has been revised to add lighted barricades to RW 6-24 and revise the division between Phase 1A and Phase 1B to be 200' from RW centerline.
- 7. Drawing S1.2 has been revised to indicate that Phases 1A and 1B will be done concurrently so that the project can be completed in 45 calendar days. Additionally, the temporary runway closure detail clarifies that the contractor must use lighted closure markers for night closures.
- 8. Drawing D1.1 has been revised to remove the previous proposed RW 6-24 trench and removal of in-ground threshold lights. Additionally, the limits of pavement marking removal has been extended on the TW E runup apron.
- 9. Drawing C1.2 has been revised to clarify that the proposed haul route is not to be paved.
- 10. Drawing C2.1 has been revised to clarify the Typical Section that the embankment fill is P-152. Additionally, the RW trench detail has been removed. The Haul Route Typical section has been revised to show the final treatment of topsoil, mulch, seed. The Typical Taper section has been revised to show the intended use at RW edge for temporarily transition the pavement edge to eliminate a drop of more than 1.5 inches.
- 11. Drawing C3.1 has been revised to clarify the limits of proposed pavement, which now excludes the haul road.
- 12. Drawing L1.1 has been revised to modify two light spacing areas which results in the addition of two base mounted taxiway edge lights. Additionally, one guidance sign and one foundation for an additional guidance sign has been added. Also, the Duct Bank under the haul route has been removed.

PLYMOUTH MUNICIPAL AIRPORT TW 'E' EXTENSION ADDENDUM No. 3

- 13. Drawing L2.2 has been revised to show the revised sign schedule, and remove the vehicle service road metal sign, which has been removed from the project.
- 14. Drawing M1.1 has been revised to show the new taxiway edge markings and modified centerline striping at the runup apron.
- 15. Drawing M2.1 has been revised to show the new taxiway edge marking detail for the runup apron, and remove the ILS hold line marking.

Bidder agrees to perform all of the work described in Specifications, shown on the drawings and tabulated below for the following unit and lump sum prices. The munities are estimated and are nonvided for the numbers of commaricon only.

The quantitie:	The quantities are estimated and are provided for the purposes of comparison only.	the purposes of c	omparison or		
ITEM		ESTIMATED		PRICE PER UNIT	TOTAL ITEM PRICE
NUMBER	DESCRIPTION	QUANTITY	LINU	WRITTEN IN WORDS	WRITTEN IN WORDS
M-005-5.1	12" Stone Riprap	590	СҮ		
				(()	
M-209-5.1	3/8" Pea Stone for Infiltration Resin	60	CY		
				((\$	((\$
M-209-5.2	3/4" Crushed Stone for	280	СY		
	Infiltration Basin				
				((\$)	((\$)
C-102-5.1	Silt Fence	120	LF		
				(()	(()
C-102-5.2	Catch Basin Inlet Protection	~	EA.		
				(()	() () () () () () () () () ()
C-102-5.3	Erosion Control Matting	2,900	SY		
				(()	()
C-102-5.4	Temporary Seed	2	AC		
				(8)	([[] [] [] [] [] [] [] [] []
C-102-5.5	C-102-5.5 Stabilized Construction Entrance	-	TS		
				(8	(()
P-101-4.1	Pavement Removal	970	SY		
				(() ()
P-151-4.1	Clearing and Grubbing	0.5	AC		
				(2)	((2

TOTAL ITEM PRICE WRITTEN IN WORDS		(**************************************		((() () () () () () () () ()		() () () () () () () () () () () () () ((()		()		((() () () () () () () () ()		() ()		(\$)		()		
PRICE PER UNIT WRITTEN IN WORDS		((() () () () () () () () ()		(2000)		((()		() (\$)		(()		((() () () () () () () () ()		()		(8
LINI	СҮ		CY		CY		SF		LF		LF		EA.		EA		EA		CY	
ESTIMATED QUANTITY	3,050		19,000		380		550		120		96				12		2		2,200	
DESCRIPTION	Excavation to Embankment		Borrow Excavation		Unclassified Excavation		Pavement Marking Removal		Chain-Link Fence Removal		Electrical Duct Removal		Remove Existing 15" RCP End Section		Remove Existing Taxiway Edge	Mounted	Remove Existing Guidance Sign Foundation		Subbase Course	
ITEM NUMBER	· · · ·		P-152-4.2		P-152.4.3		P-150-4.1		P-150-4.2		P-150-4.3		P-150-4.4		P-150-4.5		P-150-4.6		P-154-5.1	

ITEM	DESCRIPTION	ESTIMATED	LINU	PRICE PER UNIT	TOTAL ITEM PRICE
	Crushed Aggregate Base Course	730	CY		
				((2	()
P-401-8.1	Bituminous Pavement - Binder Course	340	TON		
P-401-8.2	Bituminous Pavement - Wearing Course	340	TON		
P-603-5.1	Emulsified Asphalt Tack Coat	100	GAL		() () ()
P-605-5.1	Sawcut Existing Pavement	250	LF	(8	()
P-620-5.1	Yellow Paint	1,030	SF	() ()	() () () () () () () () () () () () () (
P-620-5.3	Black Paint	1,790	SF	(*************************************	
F-162-5.1	6-ft High Chain-Link Fence	110	LF	(()	
D-701-5.1	15-inch HDPE Pipe	320	LF	(\$)	
D-701-5.2	15-inch Reinforced Concrete Pipe	32	LF		((() () () () () () () () ()

ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY	UNIT	PRICE PER UNIT WRITTEN IN WORDS	TOTAL ITEM PRICE WRITTEN IN WORDS
D-701-5.3	24-inch HDPE Pipe	208	LF		
				() () () () () () () () () ()	(((8
D-705-5.1	6-inch HDPE Perforated Underdrain Pipe	160	LF	()	()
D-751-5.1	Deep Sump Catch Basin, Frame and Grate	4	EA	(()
D-751-5.2	Drainage Manhole, Frame and Cover	1	EA	(()	(()
D-751-5.3	Leaching Drainage Catch Basin, Frame and Grate	2	EA	()	(()
D-751-5.4	Relocate Existing Leaching Catch Basin	2	EA		()
D-751-5.5	Leaching Drainage Manhole, Frame and Cover		EA	(()	(\$(\$
D-752-5.1	15-inch HDPE Flared End Section	Peri	EA	(() () () () () () () () () (((\$)
D-752-5.2	15-inch RCP Flared End Section	1	EA	((((((((((((((((((((((() () () () () () () () ()

TOTAL ITEM PRICE	WRITTEN IN WORDS		(((((((((((((((((((((\$)		(\$)		(\$)		6	((()			((\$		(()		(2000)
	RDS											 									
PRICE PER UNIT	WRITTEN IN WORDS		(3		(**************************************		\$)		(\$		Ę			(\$			(\$		(8		(3
	UNIT	EA		AC		CY		AC		LF			LF		LF			EA		LF	
ESTIMATED	QUANTITY	7		3.6		1,470		3.6		1,780			1,780		120			9		1,700	
	DESCRIPTION	24-inch HDPE Flared End	Section	General Seeding		Topsoiling		Mulching		No. 8 AWG, 5 kV, Type C, 7	Strand , L-824 Cable, Installed in Trench, Duct Bank or Conduit		No. 6 AWG, Solid, Bare Copper	Counterpoise wire, instance in Trench, Including	4" 4-Way Concrete Encased	Electrical Duct Bank		Concrete Duct or Splice Marker		2" PVC Elecrical conduit	
ITEM		D-752-5.3		T-901-5.1		T-905-5.1		T-908-5.1		L-108-5.2			L-108-5.3		L-110-5.1			L-110-5.2		L-110-5.3	

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ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY	UNIT	PRICE PER UNIT WRITTEN IN WORDS	TOTAL ITEM PRICE WRITTEN IN WORDS
L-115-5.1	Electrical Handhole	Ś	EA	()	() () () () () () () () () () () () () (
L-125-5.1	Remove and Reset Existing Taxiway Edge Light - LED Lamp, Base Mounted	4	EA	()	() () ()
L-125-5.2	Install New Taxiway Edge Light - LED Lamp, Base Mounted	26	EA		()
L-125-5.3	Relocate Existing Guidance Sign on New Foundation	2	EA		()
L-125-5.4	Install New Guidance Sign	7	EA	()	()
L-125-5.5	Runway Closure Markers	7	EA		
L-125-5.6	Relocate Existing REILS Circuit through new Duct Bank	1	LS	(\$	((3
L-125-5.7	Install Foundation for Future Guidance Sign	Year	EA	(\$	()
L-125-5.8	Install New L-858Y Unlighted Instructional Sign	1	EA	((\$)	()

TOTAL BID:

B-7

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6. Qualification of Bidder

The Owner may make such investigations as outlined in the General Provisions Section 20 paragraph 20-02 to determine the ability of the bidder to perform the work and the bidder shall furnish all such information and data for this purpose as may be requested. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to indicate that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

7. Bid Security

Each bidder must deposit with his bid, security in the amount of 5% of the total amount of the bid. Bid security may be in the form of a certified check drawn upon a bank within the State of Massachusetts, or a bid bond executed by a surety company authorized to do business in the State of Massachusetts, made payable to the Owner. Such security will be returned to all except the three lowest bidders within three days after the opening of bids. The remaining securities will be returned promptly after the Owner and the accepted bidder have executed the contract, or if no award has been made within 90 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid.

8. Liquidated Damages for Failure to Enter into Contract

The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds required within 10 days after he has received notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his bid.

9. <u>Time of Completion and Liquidated Damages</u>

Bidder must agree to commence work under this contract within ten (10) calendar days after the date of receipt by him of notice to proceed and to fully complete the project within 45 calendar days thereafter. The successful bidder may negotiate other schedule arrangements with the Owner.

Bidder must agree also to pay as liquidated damages an amount equal to one thousand dollars (\$1,000.00) for each consecutive calendar day thereafter as hereinafter provided by the Supplemental General Provisions.

10. <u>Conditions of Work</u>

Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon, as outlined in the General Provisions Section 20 Paragraph 20-06. Failure to do so will not relieve a successful bidder of his obligations to furnish all material and labor necessary to carry out the provisions of his contract.

11. Addenda and Interpretations

No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally.



Charles D. Baker, Governor Karyn E. Polito, Lieutenant Governor Stephanie Pollack, Secretary & CEO Jeffrey DeCarlo, Administrator



Letter of Intent/Schedule of Participation¹ Disadvantaged Business Enterprise (DBE)² Participation (For Federally-sponsored Projects)³

NOTE TO BIDDER: THE DBE APPROVED DBE PLAN). IF TI EFFORT" TO THE SPONSOR,	HIS GOAL IS NOT MET, THE			
AIRPORT		PROJECT NO		
PROJECT TITLE				
	Name of 0	General Contractor		
	Name o	f DBE Contractor		
		Address		
City	State	Zip Code		Phone
. The undersigned DBE firm Check One:	i intends to perform work in	connection with the abov	e referenced pr	oject as:
🗌 🛛 An individ	ual	A partnership		A corporation
🗌 A joint ver	iture with:			
Other				
		Attach extra sheets if ne	cessarv	

2. The undersigned affirms that they are a duly authorized official representing the proposed DBE and affirms that its certification has not expired nor been revoked.

(Attach a copy of the certification letter)⁴ Check all that apply:

	DBE
--	-----

Certification Agency

Certification Number

3. If awarded the contract, the undersigned intends to enter into a subcontract to perform the work described on the following sheet for the prices indicated.

¹ Use a separate form for each DBE firm to be utilized on this project.

² Must be register with the MA Supplier Diversity Office (SDO) and must be listed as a DBE with a valid certification when work is completed.

³ For projects with any federal participation.

⁴ Certification must be completed prior to Contract Award.

Contract Item No.	Description of Work to be Performed by DBE Contractor	Estimated Quantity	Unit Price	ltem Amount
			· · · · · · · · · · · · · · · · · · ·	

Total amount credited to DBE contractor (add item amounts):	TOTAL		\$
Proposed total contract price:			\$
The total price to DBE contractor for work performed under this contract is		%	of the proposed total
contract price. (See note to bidder above).			

The undersigned certify that they will enter into a formal agreement upon execution of the contract for the above referenced project pursuant to all conditions noted in attached documents, swearing and affirming under the pains and penalties of perjury, that the foregoing information and appropriate attachments are true and accurate to the best of their knowledge.

Name of DBE Contractor		
Authorized Signature		
	Name and Title	
	Date	
Name of General Contractor		
Authorized Signature		
	Name and Title	
·····	Date	



Charles D. Baker, Governor Karyn E. Polito, Lieutenant Governor Stephanie Pollack, Secretary & CEO Jeffrey DeCarlo, Administrator



Project Expenditure Report¹ Disadvantaged Business Enterprise (DBE)² Participation (For Federally-sponsored Projects)³

PROJECT_____

DBE CONTRACTOR _____

MASSDOT PAYMENT VOUCHER (PV) NO. ______ TOTAL DBE CONTRACTOR PARTICIPATION \$_____

PERCENTAGE OF CONTRACT _____

Contract Item No.	Description of Work to be Performed by DBE Contractor	Estimated Quantity	Unit Price	ltem Amount
Total amount	requested by DBE contractor this invoice (add item amounts):	TOTAL	\$	
Total amount	previously requested by DBE contractor:		\$	

Total amount requested by DBE contractor to date:

The undersigned certifies that the DBE Contractor has successfully completed the above referenced work associated with this project and further assures that said DBE Contractor will be paid in full for the amount indicated above for said services.

Prime Contractor

Authorized Signature

Date

DBE Contractor

Authorized Signature

Date

S

¹ Form must be submitted with each PV. Separate forms for each DBE contractor.

Must be register with the MA Supplier Diversity Office (SDO) and must be listed as a DBE with a valid certification when work is completed.

³ For projects with any federal participation.

Article 3 – Contract Price

In consideration of the faithful performance and completion of the Work by the CONTRACTOR in accordance with the Contract Documents, OWNER shall pay the CONTRACTOR an amount equal to:

(Amount in Written Words)

(\$

(Amount in Numerals) subject to the following:

- a. Said amount is based on the schedule of prices and estimated quantities stated in CONTRACTOR'S Bid Proposal, which is attached to and made a part of this Agreement;
- b. Said amount is the aggregate sum of the result of the CONTRACTOR'S stated unit prices multiplied by the associated estimated quantities;
- c. CONTRACTOR and OWNER agree that said estimated quantities are not guaranteed and that the determination of actual quantities is to be made by the OWNER'S ENGINEER;
- d. Said amount is subject to modification for additions and deductions as provided for within the Contract General Provisions.

Article 4 – Payment

Upon the completion of the work and its acceptance by the OWNER, all sums due the CONTRACTOR by reason of faithful performance of the work, taking into consideration additions to or deductions from the Contract price by reason of alterations or modifications of the original Contract or by reason of "Extra Work" authorized under this Contract, will be paid to the CONTRACTOR by the OWNER after said completion and acceptance.

The acceptance of final payment by the CONTRACTOR shall be considered as a release in full of all claims against the OWNER, arising out of, or by reason of, the work completed and materials furnished under this Contract.

OWNER shall make progress payments to the CONTRACTOR in accordance with the terms set forth in the General Provisions. Progress payments shall be based on estimates prepared by the ENGINEER for the value of work performed and materials completed in place in accordance with the Contract Drawings and Specifications.

Progress payments are subject to retainage requirements as set forth in the General Provisions.

Article 5 – Contract Time

The CONTRACTOR agrees to commence work within ten (10) calendar days of the date specified in the OWNER'S Notice-to-Proceed. CONTRACTOR further agrees to complete said work within 45 Calendar Days of the commencement date stated within the Notice-to-Proceed.

It is expressly understood and agreed that the stated Contract Time is reasonable for the completion of the Work, taking all factors into consideration. Furthermore, extensions of the Contract Time may only be permitted by execution of a formal modification to this Contract Agreement in accordance with the General Provisions and as approved by the OWNER.

Article 6 – Liquidated Damages

The CONTRACTOR and OWNER understand and agree that time is of essence for completion of the Work and that the OWNER will suffer additional expense and financial loss if said Work is not completed within the authorized Contract Time. Furthermore, the CONTRACTOR and OWNER recognize and understand the difficulty, delay, and expense in establishing the exact amount of actual financial loss and additional expense. Accordingly, in place of requiring such proof, the CONTRACTOR expressly agrees to pay the OWNER as liquidated damages the non-penal sum of \$1,000 per day for each calendar day required in excess of the authorized Contract Time.

NOTICE TO PROCEED

	(DATE)
ТО:	SUBJECT: <u>Plymouth Municipal Airport</u>
	Titled: <u>Construct, Mark & Light Taxiway 'E' Extension</u>

You are hereby notified to commence work within 10 calendar days on Construction of the subject project together with all necessary appurtenances, and to diligently prosecute this work. Completion shall be obtained within 45 calendar days of the commencement. Start time for this contract will be computed from _____ (Date)

Plymouth Airport Commission

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BY:

Chairman

NP-1

Item L-125 Installation of Airport Lighting Systems

DESCRIPTION

125-1.1 New Airport Lighting and Guidance Sign Installations. This item shall consist of airport lighting systems furnished and installed in accordance with this specification, the referenced specifications, and the applicable advisory circulars (ACs). The systems shall be installed at the locations and in accordance with the dimensions, design, and details shown in the plans. This item shall include the furnishing of all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the RPR.

125-1.2 Relocation of Airport Lighting This item shall consist of the relocation of existing taxiway edge lights. The Contractor shall exercise care when relocating equipment so as to avoid damage. Relocated elements such as fixtures, lamps, globes and signs damaged through the fault of the Contractor, shall be the responsibility of the Contractor to repair or replace to the satisfaction of the Engineer. The Contractor shall also be responsible for supplementing the existing fixtures and signs with new isolation transformers and cable connectors and shall include these items in the bid item for this work. Stakes may be reused if removed in good condition otherwise the old stakes shall be removed and disposed of off Airport property. The Contractor may reuse existing sign bases upon approval by the Engineer. Sign bases and quartz taxiway edge lights which are not reused shall be removed and disposed of in accordance with Specification P-150 – Demolition.

All existing LED runway edge lights that are removed during construction and not relocated (surplus) shall remain property of the airport, and shall be turned over to the airport for storage in accordance with Specification P-150 – Demolition.

EQUIPMENT AND MATERIALS

125-2.1 General.

a. Airport lighting equipment and materials covered by Federal Aviation Administration (FAA) specifications shall be certified under the Airport Lighting Equipment Certification Program in accordance with AC 150/5345-53, current version. FAA certified airfield lighting shall be compatible with each other to perform in compliance with FAA criteria and the intended operation. If the Contractor provides equipment that does not performs as intended because of incompatibility with the system, the Contractor assumes all costs to correct the system for to operate properly.

b. Manufacturer's certifications shall not relieve the Contractor of their responsibility to provide materials in accordance with these specifications and acceptable to the RPR. Materials supplied and/or installed that do not comply with these specifications shall be removed, when directed by the RPR and replaced with materials, which do comply with these specifications, at the sole cost of the Contractor.

c. All materials and equipment used shall be submitted to the RPR for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Clearly mark each copy to identify pertinent products or models applicable to this project. Indicate all optional equipment and delete non-pertinent data. Submittals for components of electrical equipment and systems shall identify the equipment for which they apply on each submittal sheet. Markings shall be clearly made

with arrows or circles (highlighting is not acceptable). The Contractor shall be responsible for delays in the project accruing directly or indirectly from late submissions or resubmissions of submittals.

d. The data submitted shall be sufficient, in the opinion of the RPR, to determine compliance with the plans and specifications. The Contractor's submittals shall be submitted in electronic PDF format, tabbed by specification section. The RPR reserves the right to reject any or all equipment, materials or procedures, which, in the RPR's opinion, does not meet the system design and the standards and codes, specified herein.

e. All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months from final acceptance by the Owner. Where specified, all new LED light fixtures, with the exception of obstruction lighting, must be warranted by the manufacturer for a minimum of 4 years after date of installation inclusive of all electronics." Obstruction lighting warranty is set by the individual manufacturer. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.

EQUIPMENT AND MATERIALS

125-2.2 Conduit/Duct. Conduit shall conform to Specification Item L-110 Airport Underground Electrical Duct Banks and Conduits.

125-2.3 Cable and Counterpoise. Cable and Counterpoise shall conform to Item L-108 Underground Power Cable for Airports.

125-2.4 Tape. Rubber and plastic electrical tapes shall be Scotch Electrical Tape Numbers 23 and 88 respectively, as manufactured by 3M Company or an approved equal.

125-2.5 Cable Connections. Cable Connections shall conform to Item L-108 Installation of Underground Cable for Airports.

125-2.6 Retroreflective Markers. Not required.

125-2.7 Taxiway Lights. Medium Intensity taxiway lights shall conform to the requirements of AC 150/5345-46. Existing lamps specified on the plans for removal and reinstallation on the plans are LED type with Arctic Kit. All other lamps shall be quartz lights. Refer to the plans for the proposed locations of each type.

125-2.8 Runway and Taxiway Signs. Runway and Taxiway Guidance Signs should conform to the requirements of AC 150/5345-44. Hold signs shall be style L-858R, size 2, style 2, class 2.

125-2.9 Runway End Identifier Light (REIL). Not required.

125-2.10 Precision Approach Path Indicator (PAPI). Not required.

125-2.12 Light Base and Transformer Housings. Light Base and Transformer Housings should conform to the requirements of AC 150/5345-42. Light bases shall be Type L-867 Class 1A, Size B shall be provided as indicated or as required to accommodate the fixture or device installed thereon. Base plates, cover plates, and adapter plates shall be provided to accommodate various sizes of fixtures.

125-2.13 Isolation Transformers. Isolation Transformers shall be Type L-830, size as required for each installation. Transformer shall conform to AC 150/5345-47.

INSTALLATION

125-3.1 Installation. The Contractor shall furnish, install, connect and test all equipment, accessories, conduit, cables, wires, buses, grounds and support items necessary to ensure a complete and operable airport lighting system as specified here and shown in the plans.

The equipment installation and mounting shall comply with the requirements of the National Electrical Code and state and local code agencies having jurisdiction.

The Contractor shall install the specified equipment in accordance with the applicable advisory circulars and the details shown on the plans. Items not installed in accordance with the FAA Advisory Circulars, these specifications and drawings shall be replaced by and at the expense of the contractor.

- a. Assemble units and connect to the system in accordance with the manufacturer's recommendations and instructions.
- b. Provide three (3) feet of slack in each cable in each base can.
- c. Painted and galvanized surfaces that are damaged shall be repaired according to the manufacturer's recommendations, to the satisfaction of the Owner and Engineer.
- d. All airfield lighting bolting hardware and threaded connections, i.e. frangible couplings shall be coated with "Never-Seize" or "Ideal Noalox" compound before being screwed together

125-3.2 Testing. All lights shall be fully tested by continuous operation for not less than 24 hours as a completed system prior to acceptance. The test shall include operating the constant current regulator in each step not less than 10 times at the beginning and end of the 24-hour test. The fixtures shall illuminate properly during each portion of the test.

Up to two (2) walk-throughs may be initiated by the Owner or the Engineer during which the airfield lighting units would be required to be in operation. Additional walk-throughs may be necessary depending upon the number of discrepancies found on the previous walk-throughs.

The contractor is responsible for lamp replacements and necessary maintenance of airfield items during the testing, construction and walk-through periods.

Cables shall be tested per specification L-108.

The contractor shall perform the necessary inspection and tests for some items concurrently with the installation because of subsequent inaccessibility of some components. The Engineer shall be notified by the Contractor forty-eight (48) hours in advance of any testing.

125-3.3 Shipping and Storage. Equipment shall be shipped in suitable packing material to prevent damage during shipping. Store and maintain equipment and materials in areas protected from weather and physical damage. Any equipment and materials, in the opinion of the RPR, damaged during construction or storage shall be replaced by the Contractor at no additional cost to the owner. Painted or galvanized surfaces that are damaged shall be repaired in accordance with the manufacturer's recommendations.

125-3.4 Elevated and In-pavement Lights. Water, debris, and other foreign substances shall be removed prior to installing fixture base and light.

A jig or holding device shall be used when installing each light fixture to ensure positioning to the proper elevation, alignment, level control, and azimuth control. Light fixtures shall be oriented with the light beams parallel to the runway or taxiway centerline and facing in the required direction. The outermost edge of fixture shall be level with the surrounding pavement. Surplus sealant or flexible embedding material shall be removed. The holding device shall remain in place until sealant has reached its initial set.

METHOD OF MEASUREMENT

125-4.1 Remove and Reset Taxiway Edge Lights. Relocation of existing taxiway edge lights measured for payment under this item, shall be the number of taxiway edge lights, removed, stored and reinstalled in place, ready for operation, and accepted by the Engineer.

125-4.2 New Taxiway Edge Lights. The quantity of airfield lighting units 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.

125-4.3 Relocate Existing Guidance Sign on New Foundation. The quantity of sign units relocated on new sign foundations 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.

125-4.4 Install New Guidance Sign. The quantity of sign units 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 Runway Closure Markers. The quantity of runway closure markings to be paid for under this this item shall be the number of each pair ready for use and accepted by the Engineer.

125-4.6 Relocate Existing REILS Circuit through new Duct. The quantity for relocation of existing REILS Circuit through new duct to be paid for under this item shall be a lump sum payment for completion of the work in place, ready for operation, and accepted by the Engineer.

125-4.7 Install New Foundation for Future Guidance Sign. The quantity of foundation units 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.

125-4.8 Install New L-858Y Unlighted Instructional Sign. The quantity of sign units 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	Remove and Reset Taxiway Edge Light – LED Lamp, Base Mounted – per each
Item L-125-5.2	Install New Taxiway Edge Light - LED Lamp, Base Mounted - per each
Item L-125-5.3	Relocate Existing Guidance Sign on New Foundation – per each
Item L-125-5.4	Install New Guidance Sign – per each
Item L-125-5.5	Runway Closure Markers – per each
Item L-125-5.6	Relocate Existing REILS Circuit through new Duct – per lump sum
Item L-125-5.7	Install Foundation for Future Guidance Sign – per each
Item L-125-5.8	Install New L-858Y Unlighted Instructional Sign – per each

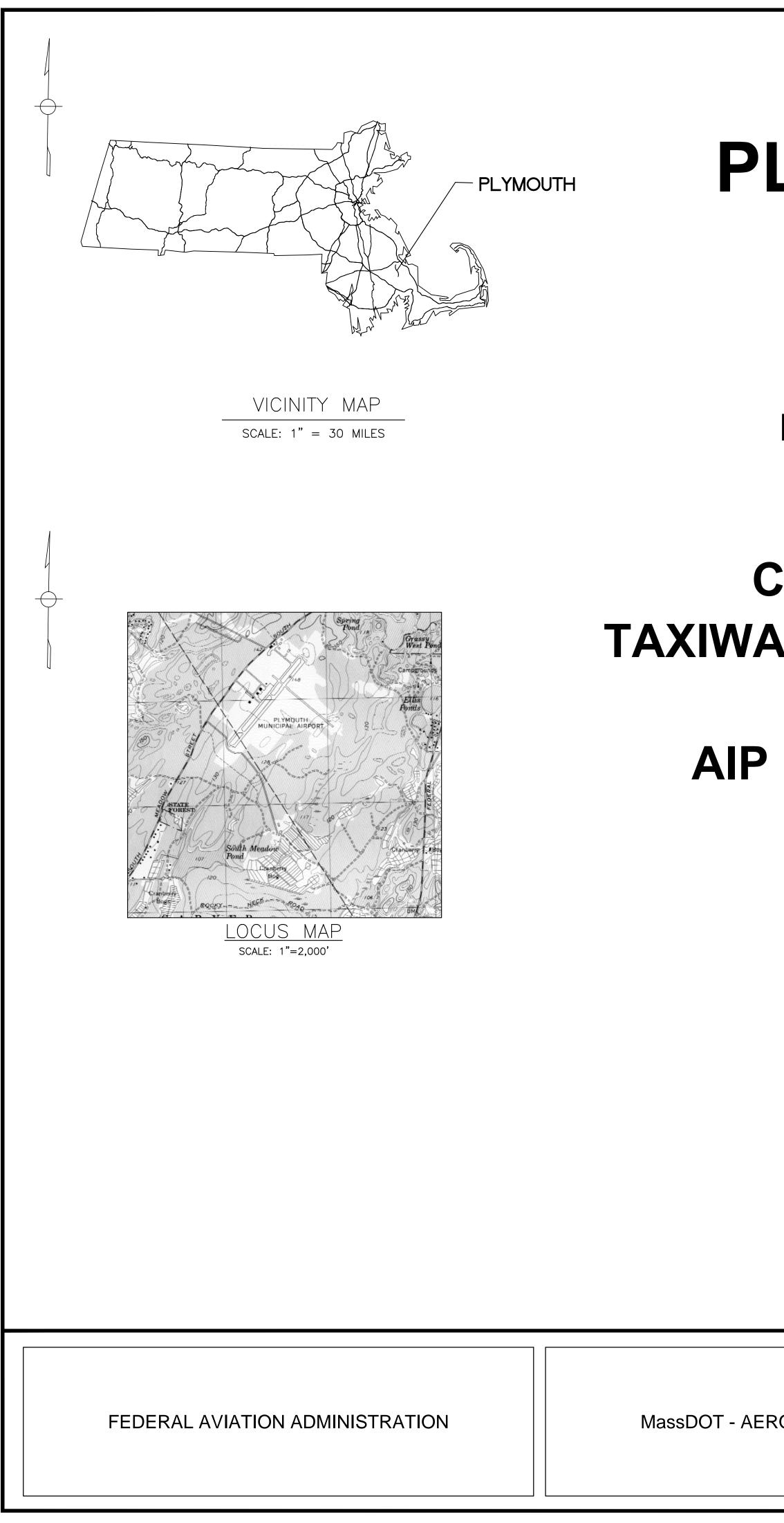
REFERENCES

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
AC 150/5345-28	Precision Approach Path Indicator (PAPI) Systems
AC 150/5345-39	Specification for L-853, Runway and Taxiway Retroreflective Markers
AC 150/5345-42	Specification for Airport Light Bases, Transformer Housings, Junction Boxes, and Accessories
AC 150/5345-44	Specification for Runway and Taxiway Signs
AC 150/5345-46	Specification for Runway and Taxiway Light Fixtures
AC 150/5345-47	Specification for Series to Series Isolation Transformers for Airport Lighting Systems
AC 150/5345-51	Specification for Discharge-Type Flashing Light Equipment
AC 150/5345-53	Airport Lighting Equipment Certification Program
Engineering Brief (EB)	
EB No. 67	Light Sources Other than Incandescent and Xenon for Airport and Obstruction Lighting Fixtures

END OF ITEM L-125



PLYMOUTH MUNICIPAL AIRPORT

PLYMOUTH AIRPORT COMMISSION 246 SOUTH MEADOW ROAD PLYMOUTH, MASSACHUSETTS 02360

CONSTRUCT, MARK, AND LIGHT TAXIWAY 'E' EXTENSION (APPROX. 500' X 35')

AIP NO. 3-25-0042-53-2021 (ASSUMED)

BID SET NOT FOR CONSTRUCTION



MassDOT - AERONAUTICS DIVISION

PLYMOUTH AIRPORT COMMISSION

TOWN OF PLYMOUTH, MASSACHUSETTS

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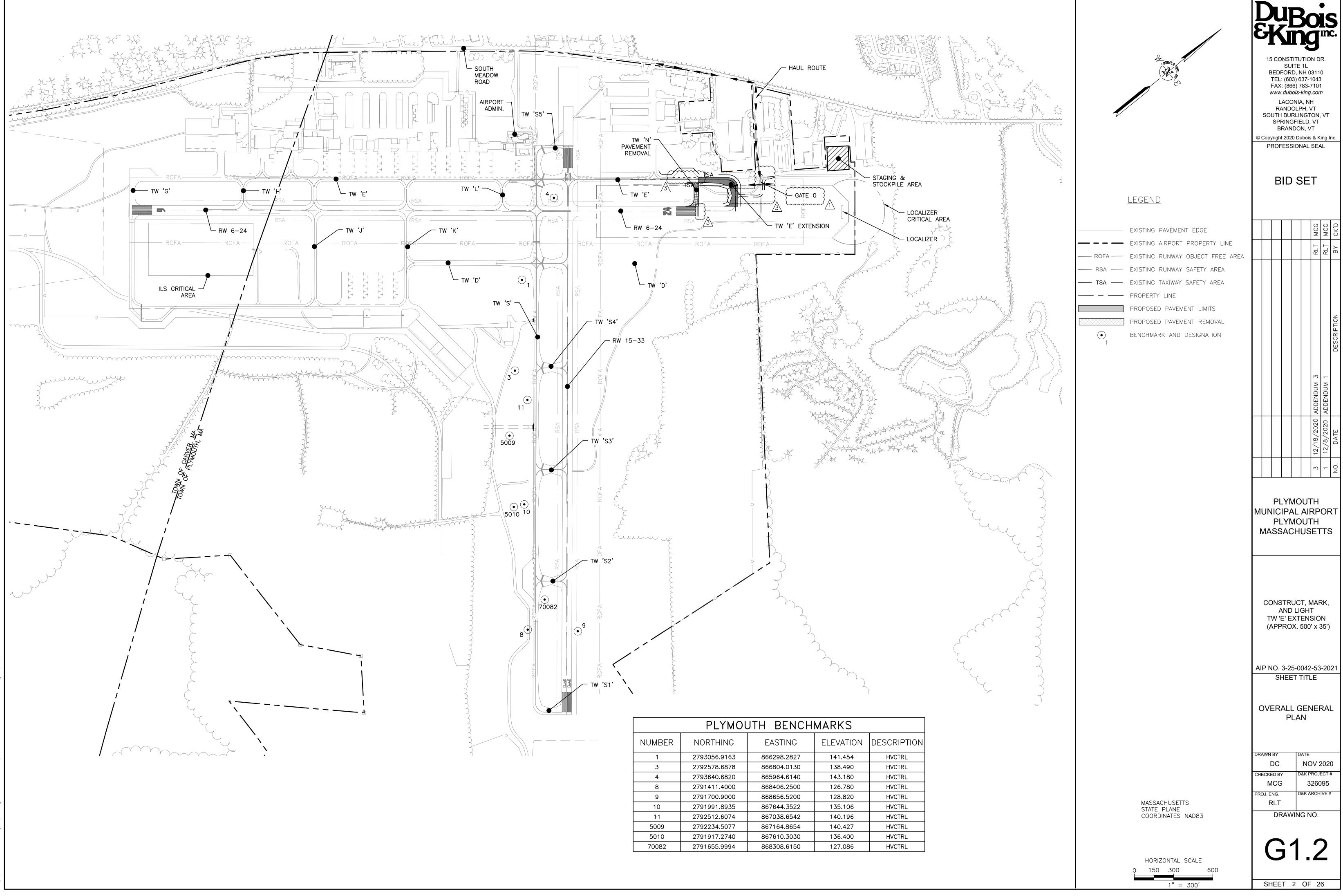
Sheet NO.	DRAWING NO.	DESCRIPTION
1	G1.1	TITLE SHEET
2	G1.2	OVERALL GENERAL PLAN
3	G1.3	PROJECT SITE PLAN
4	G1.4	QUANTITIES
5	G1.5	GENERAL NOTES
6	S1.1	SAFETY AND PHASING PLAN
7	S1.2	SAFETY PLAN DETAILS
8	D1.1	DEMOLITION PLAN (1 OF 2)
9	D1.2	DEMOLITION PLAN (2 OF 2)
10	C1.1	TW 'E' GEOMETRIC PLAN AND PROFILE
11	C1.2 {	HAUL ROUTE GEOMETRIC PLAN AND PROFILE
12	C2.1	TYPICAL SECTIONS
13	C3.1	TW 'E' GRADING AND DRAINAGE PLAN
14	C4.1	DRAINAGE DETAILS
15	C4.2	FENCE DETAILS
16	C4.3	INFILTRATION SYSTEM DETAILS
17	C5.1	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
18	L1.1	TW 'E' LIGHTING AND SIGNAGE PLAN
19	L2.1	LIGHTING DETAILS
20	L2.2	SIGNAGE DETAILS
21	M1.1	TW 'E' MARKING PLAN
22	M2.1	MARKING DETAILS
23	X1.1	TW 'E' CROSS SECTIONS (1 OF 3)
24	X1.2	TW 'E' CROSS SECTIONS (2 OF 3)
25	X1.3	TW 'E' CROSS SECTIONS (3 OF 3)

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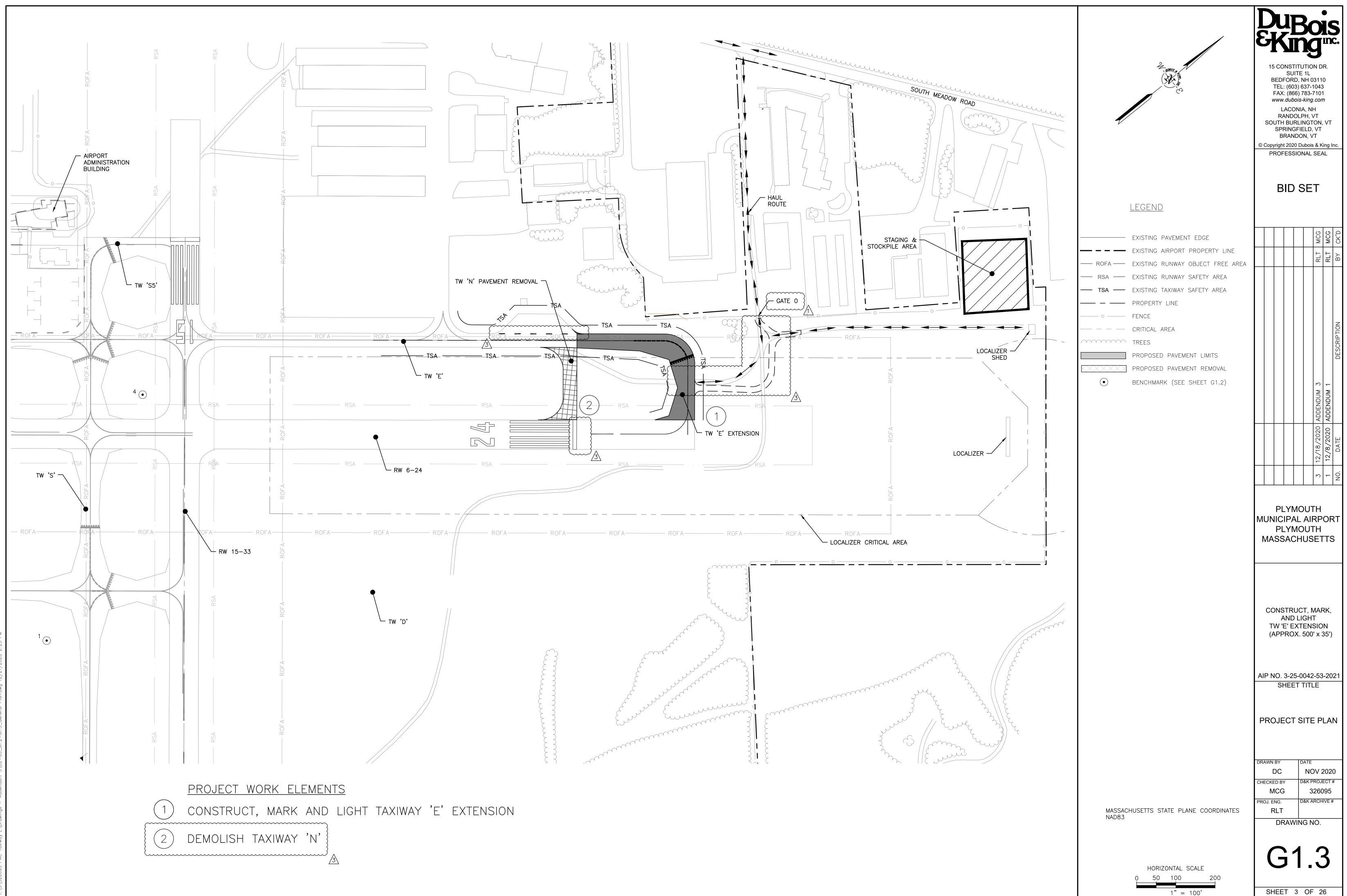
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THESE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH CRITERIA IN CURRENT FAA ADVISORY CIRCULARS AS OF FEBRUARY 28, 2020

PREPARED BY: DUBONS 15 CONSTITUTION DR. SUITE 1L BEDFORD, NH 03110 TEL: (603) 637-1043 TEL: (603) 770 7104	DC CHECKED BY: MCG	DATE: NOV 2020 PROJECT NO.: 326095 DRAW NO.: G1.1
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FLIMOUTH DENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2793056.9163	866298.2827	141.454	HVCTRL
3	2792578.6878	866804.0130	138.490	HVCTRL
4	2793640.6820	865964.6140	143.180	HVCTRL
8	2791411.4000	868406.2500	126.780	HVCTRL
9	2791700.9000	868656.5200	128.820	HVCTRL
10	2791991.8935	867644.3522	135.106	HVCTRL
11	2792512.6074	867038.6542	140.196	HVCTRL
5009	2792234.5077	867164.8654	140.427	HVCTRL
5010	2791917.2740	867610.3030	136.400	HVCTRL
70082	2791655.9994	868308.6150	127.086	HVCTRL

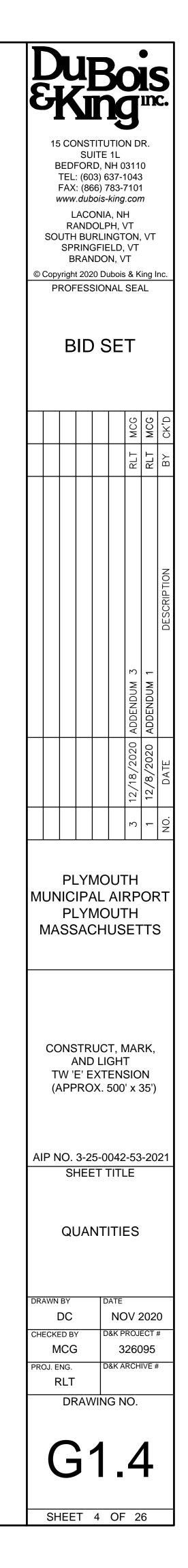


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326095 PAC Taxiway E\Drawings - Addendum 3\04_G1.4_Quantities.dwg 12/22/2020 8:36 AM
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ITEM NO.	SPEC. SEC
1	M-005-5.
2	M-209-5.
3	M-209-5.2
4	C-102-5.1
<u>5</u> 6	C-102-5.2 C-102-5.3
7	C-102-5.4
8	C-102-5.5
9	P-101-4.1
10	P-151-4.1
11	P-152-4.1
<u>12</u> 13	P-152-4.2
<u>13</u> 14	P-152-4.3
15	P-150-4.2
16	P-150-4.3
17	P-150-4.4
18	P-150-4.5
19	P-150-4.6
20 21	P-154-5.1 P-209-5.1
21	P-401-8.1
23	P-401-8.2
24	P-603-5.1
25	P-605-5.2
26	P-620-5.1
27	P-620-5.2
28 29	P-620-5.3 F-162-5.1
30	D-701-5.2
31	D-701-5.2
32	D-701-5.3
33	D-705-5.2
34	D-751-5.2
35 36	D-751-5.2
30	D-751-5.4
38	D-751-5.5
39	D-752-5.2
40	D-752-5.2
41	D-752-5.3
42 43	T-901-5.1 T-905-5.1
43	T-908-5.1
45	L-108-5.2
46	L-108-5.3
47	L-110-5.1
48	L-110-5.2
49	L-110-5.3
50 51	L-115-5.1 L-125-5.1
52	L-125-5.2
53	L-125-5.3
54	L-125-5.4
55	L-125-5.5
56	L-125-5.6
<u> </u>	L-125-5.7 L-125-5.8

DESCRIPTION	UNIT	BID QUANTITY
12" Stone Rip Rap	CY	590
3/8" Pea Stone for Infiltration Basin	CY	90
3/4" Crushed Stone for Infiltration Basin	CY	280
Silt Fence	LF	120
Catch Basin Inlet Protection	EA	3000
Erosion Control Matting	SY	2900
Temporary Seed	AC	
 Stabilized Construction Entrance Pavement Removal	LS SY	
	AC	970
 Clearing and Grubbing Excavation to Embankment	CY	3050
 Borrow Excavation	CY	1900
 Unclassified Excavation	CY	380
 Pavement Marking Removal	SF	550
 Chain-Link Fence Removal	LF	120
 Electrical Duct Removal	LF	90
Remove Existing 15" RCP End Section	EA	
 Remove Existing Taxiway Edge Light - LED Lamp, Stake Mounted	EA	1
 Remove Existing Guidance Sign Foundation	EA	
 Subbase Course	CY	2200
Crushed Aggregate Base Course	CY	730
Bituminous Pavement - Binder Course	TON	340
Bituminous Pavement - Wearing Course	TON	340
 Emulsified Asphalt Tack Coat	GAL	100
Sawcut Existing Pavement	LF	250
Yellow Paint	SF	1030
White Paint	SF	(
Black Paint	SF	179
6-ft High Chain-Link Fence	LF	110
15-inch HDPE Pipe	LF	32
15-inch Reinforced Concrete Pipe	LF	32
24-inch HDPE Pipe	LF	208
6-inch HDPE Perforated Underdrain Pipe	LF	160
Deep Sump Catch Basin, Frame and Grate	EA	
Drainage Manhole, Frame and Cover	EA	
Leaching Drainage Catch Basin, Frame and Grate	EA	:
Relocate Existing Leaching Catch Basin	EA	:
Leaching Drainage Manhole, Frame and Cover	EA	
15-inch HDPE Flared End Section	EA	
15-inch RCP Flared End Section	EA	
24-inch HDPE Flared End Section	EA	
General Seeding	AC	3.
Topsoiling	CY	1470
Mulching	AC	3.
No. 8 AWG, 5 kV, Type C, 7 Strand , L-824 Cable, Installed in Trench, Duct Bank or Conduit		178
 No. 6 AWG, Solid, Bare Copper Counterpoise Wire, Installed in Trench, Including Connections/Terminations		178
4" 4-Way Concrete Encased Electrical Duct Bank		12
 Concrete Duct or Splice Marker	EA LF	170
 2" PVC Electrical Conduit Electrical Handhole	EA	170
Remove and Reset Existing Taxiway Edge Light - LED Lamp, Base Mounted	EA EA	+
 Install New Taxiway Edge Light - LED Lamp, Base Mounted	EA EA	20
Relocate Existing Guidance Sign on New Foundation	EA	
Install New Guidance Sign on New Foundation	EA	
Runway Closure Markers	EA	
 Relocate Existing REILS Circuit through new Duct Bank	LS	
Install Foundation for Future Guidance Sign	EA	
Install New L-858Y Unlighted Instructional Sign	EA	

<u>/3</u>



PROJECT NOTES:

GENERAL:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, ETC. REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES (NO SEPARATE PAY ITEM).
- 2. ANY LISTED MANUFACTURER'S EQUIPMENT SHALL MEAN THAT LISTED ITEM OR AN APPROVED EQUIVALENT.
- 3. BORING LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. BORING INFORMATION WAS PROVIDED BY CREDERE ASSOCIATES, LLC
- 776 MAIN STREET
- WESTBROOK, MAINE 04092
- 4. FIELD SURVEY INFORMATION WAS PROVIDED BY
- DUBOIS & KING, INC.
- MR. RANDALL OTIS
- 15 CONSTITUTION DRIVE, SUITE 1L
- BEDFORD, NEW HAMPSHIRE 03110 PHONE: (603) 637-1043
- 5. THE APPROXIMATE LOCATION OF THE CONTRACTOR'S STAGING AREA HAS BEEN SHOWN ON THE PLANS.
- 6. CONTRACTOR EMPLOYEE(S) ARE PROHIBITED FROM RESIDING AT THE PROJECT SITE, ON AIRPORT PROPERTY, IN THE STAGING AREA, OR ANY OTHER TEMPORARY FACILITY.

SECURITY:

- 7. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH SECTION 80-04.1 "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION" OF THE SPECIFICATIONS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OF ITS EMPLOYEES AND SUBCONTRACTOR EMPLOYEES ONLY USE AUTHORIZED ACCESS POINT(S). EMPLOYEES SHALL VERIFY THAT THE ACCESS POINT(S) IS SECURE IMMEDIATELY AFTER USE. GATES THAT FAIL TO SECURE MUST BE IMMEDIATELY REPORTED TO THE ENGINEER OR OWNER.
- 9. THE CONTRACTOR SHALL ALWAYS MAINTAIN SEPARATION BETWEEN THE SECURE SIDE AND NON-SECURE SIDE OF THE AIRPORT. THE PERIMETER FENCE SHALL BE MAINTAINED ON A CONTINUOUS BASIS WITH ANY TEMPORARY OPENING BEING CONTINUOUSLY OBSERVED BY THE CONTRACTOR'S DESIGNATED EMPLOYEE. IF ORDERED BY THE ENGINEER OR OWNER, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE GATE GUARDS. GATE GUARDS ARE INCIDENTAL TO THE COST OF THE PROJECT. ALL TEMPORARY OPENINGS AND CONSTRUCTION GATES SHALL BE SECURED AND LOCKED AT THE COMPLETION OF WORK EACH DAY.
- 10. ALL CONTRACTOR VEHICLES OPERATING INSIDE THE SECURITY FENCE SHALL BE CLEARLY LABELED WITH THE CONTRACTOR'S COMPANY NAME VISIBLE FROM 200 FEET AND HAVE A CHECKED FLAG AND AMBER BEACON.
- 11. THE CONTRACTOR SHALL MARK AND LIGHT AREAS UNDER CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. AIRCRAFT AND PUBLIC SAFETY SHALL NOT BE COMPROMISED AND PROPER SEPARATION SHALL BE MAINTAINED AT ALL TIMES. REFERENCE IS DIRECTED TO SECTION 80-04.1 "OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION" OF THE SPECIFICATIONS. EQUIPMENT AND VEHICLES SHALL BE MARKED WITH 3' X 3' ORANGE AND WHITE CHECKER FLAGS (DAY ONLY) OR YELLOW FLASHING DOME TYPE LIGHT (DAY OR NIGHT).
- ~~~~~<u>/~`</u> 12. THE CONTRACTOR SHALL BE REQUIRED TO RELOCATE THE CLOSED MARKERS (VINYL FOR DAYTIME, LIGHTED FOR NIGHT TIME) AND AVIATION BARRICADES DURING THE PROJECT. MULTIPLE RELOCATION OF THE CLOSED MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. THE LOCATION OF THE CLOSED MARKERS AND BARRICADES, AS SHOWN ON THE PLANS, REPRESENTS THE MOST TYPICAL LOCATION.
- 13. PRIOR TO ENTERING ANY AIR OPERATIONS AREA (AOA) OR SAFETY AREA (AS SHOWN ON THE PLANS AND IDENTIFIED IN THE SPECIFICATIONS), THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER, OR OFFICIAL DESIGNATED REPRESENTATIVE. TWO-WAY AVIATION BAND RADIO COMMUNICATIONS SHALL BE REQUIRED AT ALL TIMES. NO EQUIPMENT OR PERSONNEL SHALL ENTER AN OPEN RUNWAY OR TAXIWAY SAFETY AREA UNLESS PROPERLY COORDINATED. THE CONTRACTOR SHALL HAVE A TWO-WAY AVIATION BAND RADIO AT THE JOBSITE AT ALL TIMES WORK IS IN PROGRESS. THE CONTRACTOR SHALL MONITOR THE COMMON TRAFFIC ADVISORY FREQUENCY (122.725 MHZ) AT ALL TIMES.
- 14. RUNWAY AND/OR TAXIWAY LIGHTS SHALL BE DE-ENERGIZED OR PROPERLY COVERED ON CLOSED RUNWAY(S) AND ALL CLOSED SECTIONS OF TAXIWAYS IN A MANNER APPROVED BY THE ENGINEER (NO SEPARATE PAY ITEM). REMOVING THE LAMP FROM ITS FIXTURE IS NOT ALLOWED.
- 15. UPON NOTIFICATION FROM THE OWNER, ENGINEER, OR OFFICIAL DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY AND/OR TAXIWAY SAFETY AREAS OF EQUIPMENT AND PERSONNEL IN THE EVENT OF A DECLARED AIRCRAFT EMERGENCY.

HAUL ROUTE:

- 16. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE HAUL ROUTES CROSS PAVEMENT. SEE THE SEDIMENT AND EROSION CONTROL NOTES SHEET FOR DETAILS AND "OVERALL GENERAL PLAN" SHEET FOR ANTICIPATED LOCATIONS. THE CONTRACTOR SHALL MAINTAIN THESE TEMPORARY CONSTRUCTION ENTRANCES SUCH THAT MUD AND DEBRIS ARE NOT TRACKED ONTO OPEN AREAS OF THE AIRCRAFT APRON OR VEHICLE ROADWAYS.
- 17. THE CONTRACTOR SHALL LINE THE HAUL ROUTE, ON THE DOWN SLOPE SIDE WITH SILT FENCE. THE CONTRACTOR SHALL MAINTAIN THE FENCE DURING CONSTRUCTION AND MAKE IMMEDIATE REPAIRS TO ALL DAMAGED FENCE.
- 18. ALL CONTRACTOR AND SUBCONTRACTOR PERSONNEL AND EQUIPMENT SHALL USE ONLY THE DESIGNATED HAUL ROUTES FOR INGRESS AND EGRESS TO THE CONSTRUCTION AREA AND FOR HAULING MATERIALS TO THE APPROVED WASTE AREA (AS APPLICABLE).
- 19. NO CONTRACTOR TRAFFIC SHALL USE ANY PORTION OF RUNWAY(S), TAXIWAY(S) OR APRON(S) THAT ARE NOT ON THE HAUL ROUTE OR WITHIN THE ACTIVE PROJECT AREA.
- 20. ANY CONSTRUCTION OR MAINTENANCE NECESSARY, INCLUDING ASSOCIATED LABOR AND MATERIALS, TO PRESERVE THE HAUL ROUTE FOR THE CONTRACTOR'S USE SHALL BE CONSIDERED INCIDENTAL PROJECT COSTS AND SHALL NOT BE A SEPARATE PAY ITEM.
- 21. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPAIR ANY PAVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR PAVEMENT REPAIR NECESSARY DUE TO CONTRACTOR'S HAULING OPERATIONS.
- 22. THE CONTRACTOR SHALL MAINTAIN ON SITE A VACUUM TRUCK TO REMOVE FOREIGN OBJECT DEBRIS (F.O.D.) FROM ACTIVE AIRFIELD PAVEMENT AREAS IMPACTED BY CONSTRUCTION OPERATIONS

CONSTRUCTION:

- 23. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES (I.E., AIRPORT LIGHTING, NAVAIDS, ETC.) FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL UTILITIES AND FACILITIES ARE NOT NECESSARILY SHOWN. THE CONTRACTOR SHALL ADVISE THE ENGINEER, IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 24. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S MEN OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL HAND DIG WHEN WITHIN THREE (3) FEET OF ANY KNOWN OR SUSPECTED UNDERGROUND UTILITY.
- 25. THE CONTRACTOR SHALL FIELD STAKE ALL FIXTURES PRIOR TO INSTALLATION. ANY DISCREPANCIES IN THE ALIGNMENT LOCATION SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO INSTALLATION.
- 26. ALL DISTURBED AREAS, INCLUDING THE CONTRACTORS STAGING AREA, HAUL ROUTES, GRADING LIMITS, ETC. SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. THERE WILL BE NO MEASUREMENT FOR PAYMENT OF SEEDING AND MULCHING REQUIRED OUTSIDE THE GRADING LIMITS, APPROVED STOCKPILE LIMITS, OR APPROVED HAUL LIMITS.
- 27. ALL BROKEN CONCRETE, ASPHALT, ETC. SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.
- 28. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR THE COMPLETE DURATION OF THE PROJECT. THE DRAINAGE SHALL BE OF EQUAL OR GREATER CAPACITY OF THE EXISTING DRAINAGE CONVEYANCES. THIS MAY REQUIRE TEMPORARY DITCHES. STRUCTURES OR PIPES, WHICH SHALL BE INCIDENTAL TO THE PROJECT.
- 29. THE CONTRACTOR IS ADVISED THAT AIRCRAFT OPERATIONS ARE CONDUCTED ADJACENT TO THE PROJECT. SPECIAL ATTENTION TO DUST CONTROL WILL BE REQUIRED DURING THE DURATION OF THE PROJECT. THE USE OF WATER OR A DUST REDUCING AGENT SHALL BE ANTICIPATED. THE RPR RESERVES THE RIGHT TO HALT WORK OR HAULING IN NON-CONFORMING AREAS, IF DUST CONTROL ACTIONS ARE NOT PROMPTLY TAKEN BY THE CONTRACTOR.
- 30. NO DEBRIS OF ANY NATURE SHALL BE ALLOWED IN ACTIVE AIRCRAFT OPERATIONS AREAS. ALL LOOSE MATERIALS (DIRT, STONE, PAVEMENT, FORMING, ETC.) MUST BE KEPT WITHIN THE LIMITS OF CONSTRUCTION. WHEN THE CONSTRUCTION BARRIERS ARE MOVED DURING CONSTRUCTION, THE CLEANUP OF THE AREAS OUTSIDE THE BARRIERS SHALL OCCUR IMMEDIATELY. IN ADDITION, NO LOOSE MATERIALS THAT COULD BLOW INTO AIRCRAFT OPERATIONS AREAS SHALL BE ALLOWED IN THE CONSTRUCTION AREA.
- 31. TOPSOIL SHALL BE STOCKPILED ONLY IN THE AREA SHOWN ON THE PLANS UNLESS OTHERWISE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE STOCKPILE SHALL BE GRADED TO PROVIDE ADEQUATE DRAINAGE AND PROTECTED BY SILT FENCE OR OTHER SEDIMENT TRAPPING DEVICE AS ORDERED BY THE ENGINEER. THE STOCKPILE SHALL BE REMOVED AND THE AREA RESTORED TO A SMOOTH LINE AND GRADED, SEEDED, AND MULCHED. SILT FENCE, SEEDING, AND MULCHING ARE PAY ITEMS.

DRAINAGE:

- 32. ALL MANHOLE AND DROP INLET LOCATIONS AND TOP ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL FIELD VERIFY THE INVERTS OF ALL CONNECTIONS TO EXISTING PIPES PRIOR TO FABRICATION OF PROPOSED STRUCTURES.
- 33. ALL MANHOLES, DROP INLETS, AND STRUCTURES WITHIN THE RUNWAY / TAXIWAY / SAFETY AREAS SHALL BE DESIGNED FOR 60K POINT LOAD. OUTSIDE SAFETY AREAS MAY BE HS-20 LOADING.
- 34. LENGTHS OF DRAINAGE PIPES ON THE PLANS ARE GIVEN FROM CENTER OF MANHOLE TO CENTER OF MANHOLE OR FROM OUTSIDE EDGE OF ENDWALL TO OUTSIDE EDGE OF ENDWALL. PIPE WILL BE MEASURED FOR PAYMENT FROM THE INTERIOR FACE OF THE DOWNSTREAM STRUCTURE TO THE INTERIOR FACE OF THE UPSTREAM STRUCTURE.
- 35. THE CONTRACTOR SHALL FIELD VERIFY EXISTING LOCATION, SIZE, INVERT AND TOP ELEVATION FOR EACH EXISTING PIPE AND/OR STRUCTURE WHICH IS BEING TIED-INTO WITH PROPOSED PIPE(S) AND/OR STRUCTURE. VERIFICATIONS SHALL BE COMPLETED AND SUBMITTED IN WRITING TO THE ENGINEER PRIOR TO STRUCTURE FABRICATION AND/OR DRAINAGE PIPE INSTALLATION (NO SEPARATE PAY ITEM)
- 36. WELLPOINTING AND/OR OTHER DEWATERING METHODS REQUIRED FOR THE INSTALLATION OF MANHOLES, DROP INLETS, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 37. THE CONTRACTOR SHALL CLEAN THE STORM SEWER SYSTEM OF ALL SEDIMENT UPON STABILIZATION OF THE UPSTREAM AREAS. NO SEPARATE PAY ITEM.

DEMOLITION NOTES:

- STATE, AND FEDERAL REGULATIONS.

- WORK.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS FOR THE DURATION OF THE PROJECT. TEMPORARY DRAINAGE PROVISIONS SHALL HAVE SAME OR HIGHER CAPACITY THAN THAT OF THE EXISTING DRAINAGE SYSTEM. ALL WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

2. ANY INTERRUPTION TO SERVICE TO ACTIVE LIGHTING CIRCUITS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR. ANY DAMAGE TO EXISTING AIRPORT CIRCUITS CAUSED BY THE CONTRACTOR'S EQUIPMENT OR PERSONNEL SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL ACTIVE LIGHTING SYSTEMS FOR OPEN AIRCRAFT OPERATIONAL AREAS SHALL BE OPERABLE FROM DUSK TO DAWN. THE USE OF TEMPORARY CABLES SHALL BE ANTICIPATED IN ORDER TO ACCOMMODATE CONSTRUCTION PHASING (NO PAY ITEM).

3. RESIDUAL MATERIALS FROM THE DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM AIRPORT PROPERTY UNLESS OTHERWISE NOTED. ALL DISPOSALS SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL,

4. THE CONTRACTOR SHALL PROTECT AND RETAIN ALL ELECTRICAL DEMOLITION ITEMS WHICH THE OWNER CHOOSES TO MAINTAIN POSSESSION OF. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, REGULATORS, TRANSFORMERS, SIGNS, AND SIGN PANELS. THE CONTRACTOR SHALL DELIVER THE APPLICABLE ITEMS TO A DESIGNATED STORAGE LOCATION ON THE AIRPORT AS ORDERED BY THE OWNER.

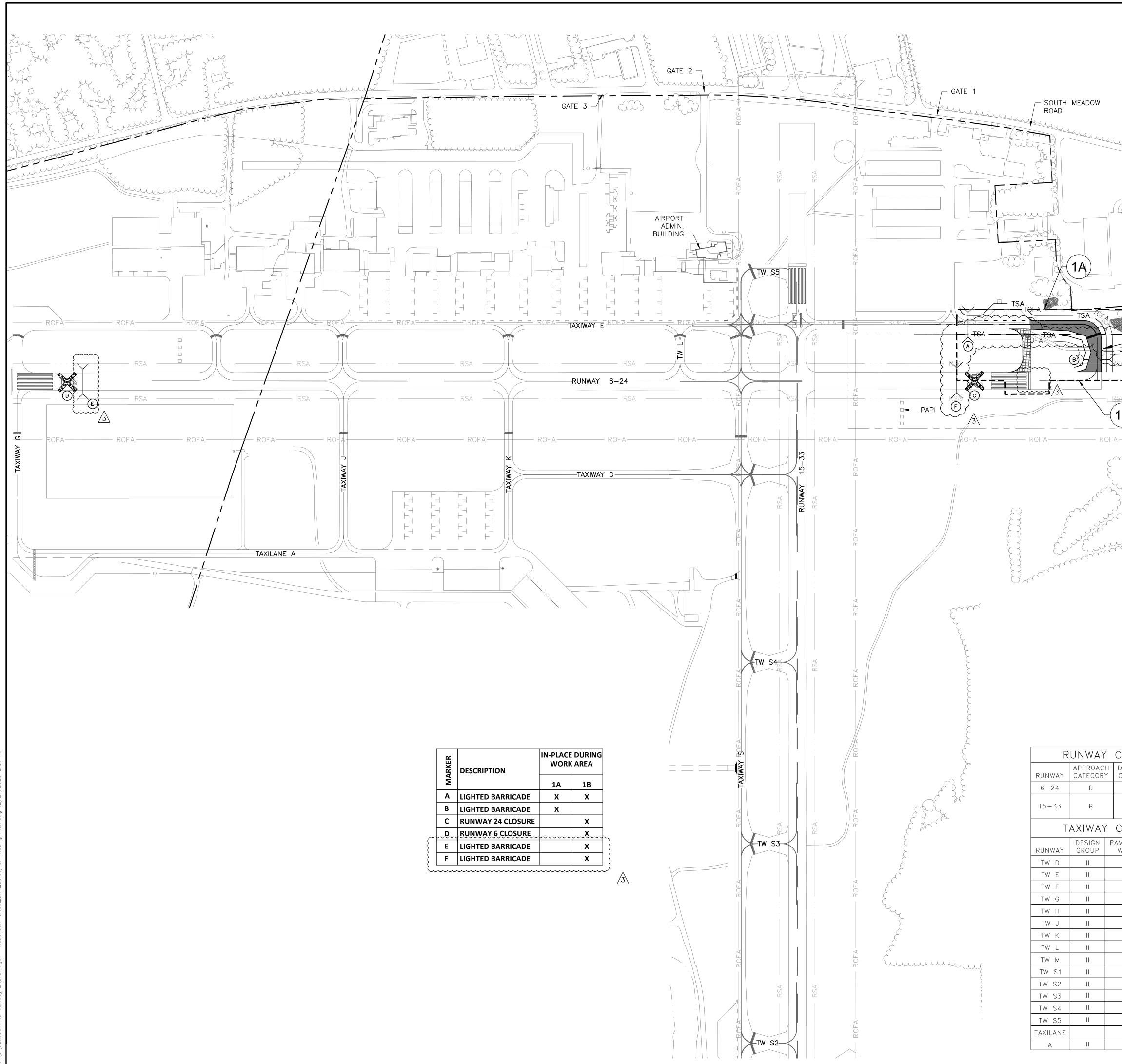
5. ALL PAVEMENTS TO BE REMOVED SHALL BE NEATLY SAWCUT.

6. THE CONTRACTOR SHALL LAYOUT AND VERIFY WITH THE ENGINEER THE LIMITS OF PAVEMENT REMOVAL IN THE FIELD PRIOR TO BEGINNING

7. ALL DEMOLISHED, SURPLUS, OR WASTE MATERIALS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS.

8. THE LOCATION OF EXISTING DUCTS SHOWN ON PLANS IS APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.

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ſ	PLYMOUTH MUNICIPAL AIRPORT PLYMOUTH MASSACHUSETTS CONSTRUCT, MARK, AND LIGHT TW 'E' EXTENSION (APPROX. 500' x 35') AIP NO. 3-25-0042-53-2021 SHEET TITLE GENERAL NOTES							
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WORK AREA 1A

MAJOR WORK ITEMS

- (. INSTALL EROSION PROTECTION, SEDIMENT CONTROL) (EPSC) MEASURES
- 2. REMOVE EXISTING PAVEMENT
- 3. CLEAR AND GRUB EXISTING VEGETATION
- 4. INSTALL DRAINAGE
- 5. INSTALL PAVEMENT, BASE AND SUBBASE MATERIALS
- 6. INSTALL LIGHTING, SIGNAGE AND PAVEMENT MARKINGS
- 7. INSTALL LOAM AND SEED

CONSTRUCTION SAFETY GENERAL NOTES:

- 1. CONTRACTOR SHALL INSTALL LIGHTED BARRICADES AS INDICATED IN THE SAFETY PLAN. BARRICADES SHALL BE LAID END TO END. SEE CSPP BARRICADE DETAILS.
- 2. NO SNOW FENCE OR DEMARCATION FENCE SHALL BE PLACED WITHIN THE RUNWAY SAFETY AREA OR TAXIWAY OBJECT FREE AREA UNLESS THOSE PAVEMENTS ARE CLOSED TO AIRCRAFT.
- 3. CONSTRUCTION ACTIVITIES MAY REQUIRE VEHICLES TO CROSS AIRPORT PAVEMENTS. CONTRACTOR SHALL MAINTAIN A VACUUM TRUCK ON SITE FOR REMOVING FOREIGN OBJECT DEBRIS (FOD).
- 4. SEE CONSTRUCTION SAFETY AND PHASING PLAN DOCUMENT IN PROJECT SPECIFICATIONS DOCUMENTS FOR ADDITIONAL INFORMATION.

WORK AREA 1A RESTRICTIONS ON CONSTRUCTION 1. WORK AREA 1A MAY BE WORKED ON CONCURRENTLY

- WITH WORK AREAS 1B
- 2. CONSTRUCTION OF WORK AREA 1A INCLUDES:
- CONSTRUCTION OF TAXIWAY 'E' OUTSIDE OF RUNWAY 6-24 SAFETY AREA
- REMOVAL OF TAXIWAY 'N' OUTSIDE OF RUNWAY 06-24 SAFETY AREA.
- 3. CONSTRUCTION ACTIVITIES ARE RESTRICTED TO BETWEEN 7:00 AM AND 7:00 PM MONDAY THROUGH SATURDAY. NO CONSTRUCTION MAY BE PERFORMED ON SUNDAY.

WORK AREA 1A NOTES:

LOCATION: TAXIWAY 'N', TAXIWAY 'E' LOCATED OUTSIDE OF RUNWAY 06-24 SAFETY AREA **DURATION: 45 DAYS**

AIRPORT AREAS IMPACTED:

- 1. RUNWAY 6-24 MALS, REILS AND PAPI SHALL BE DE-ENERGIZED FOR DURATION OF CONSTRUCTION IN WORK AREA. RUNWAY 6-24 LOCALIZER, GLIDESLOPE SHALL REMAIN DISABLED UNTIL PROJECT COMPLETION AND FAA FLIGHTCHECK IS PERFORMED.
- 2. PORTIONS OF TAXIWAY 'E' SHALL BE CLOSED DURING CONSTRUCTION.
- 3. <u>TW 'N'</u> WILL BE CLOSED DURING CONSTRUCTION.
- 4. BARRICADES SHALL BE PLACED AS NOTED ON PLANS.

WORK AREA 1B

MAJOR WORK ITEMS

- 1. INSTALL EPSC MEASURES
- 2. REMOVE EXISTING PAVEMENT
- 3. CLEAR AND GRUB EXISTING VEGETATION
- 4. INSTALL DRAINAGE
- 5. INSTALL PAVEMENT, BASE AND SUBBASE MATERIALS
- 6. INSTALL LIGHTING, SIGNAGE AND PAVEMENT MARKINGS
- 7. INSTALL LOAM AND SEED

CONSTRUCTION SAFETY GENERAL NOTES:

- 1. CONTRACTOR SHALL INSTALL LIGHTED BARRICADES AS INDICATED IN THE SAFETY PLAN. BARRICADES SHALL BE LAID END TO END. SEE CSPP BARRICADE DETAILS (THIS SHEET).
- 2. CONTRACTOR SHALL INSTALL RUNWAY CLOSURE MARKERS ON RUNWAY NUMERALS OF CLOSED RUNWAYS. SEE DETAILS (THIS SHEET).
- 3. NO SNOFENCE OR DEMARCATION FENCE SHALL BE PLACED WITHIN THE RUNWAY SAFETY AREA OR TAXIWAY OBJECT FREE AREA UNLESS THOSE PAVEMENTS ARE CLOSED TO AIRCRAFT.
- 4. CONSTRUCTION ACTIVITIES MAY REQUIRE VEHICLES TO CROSS AIRPORT PAVEMENTS. CONTRACTOR SHALL MAINTAIN A VACUUM TRUCK ON SITE FOR REMOVING FOREIGN OBJECT DEBRIS (FOD).
- 5. SEE CONSTRUCTION SAFETY AND PHASING PLAN DOCUMENT IN PROJECT SPECIFICATIONS DOCUMENTS FOR ADDITIONAL INFORMATION.
- WORK AREA 1B RESTRICTIONS ON CONSTRUCTION
- 1. WORK AREA 1B MAY BE WORKED ON CONCURRENTLY WITH WORK AREAS 1A
- 2. CONSTRUCTION OF WORK AREA 1B INCLUDES:
- CONSTRUCTION OF TAXIWAY 'E' INSIDE OF RUNWAY 6-24 SAFETY AREA
- REMOVAL OF TAXIWAY 'N' INSIDE OF RUNWAY 6-24 SAFETY AREA.
- CONSTRUCTION ACTIVITIES ARE RESTRICTED TO BETWEEN 7:00 AM AND 7:00 PM MONDAY THROUGH
- SATURDAY. NO CONSTRUCTION MAY BE PERFORMED ON SUNDAY.

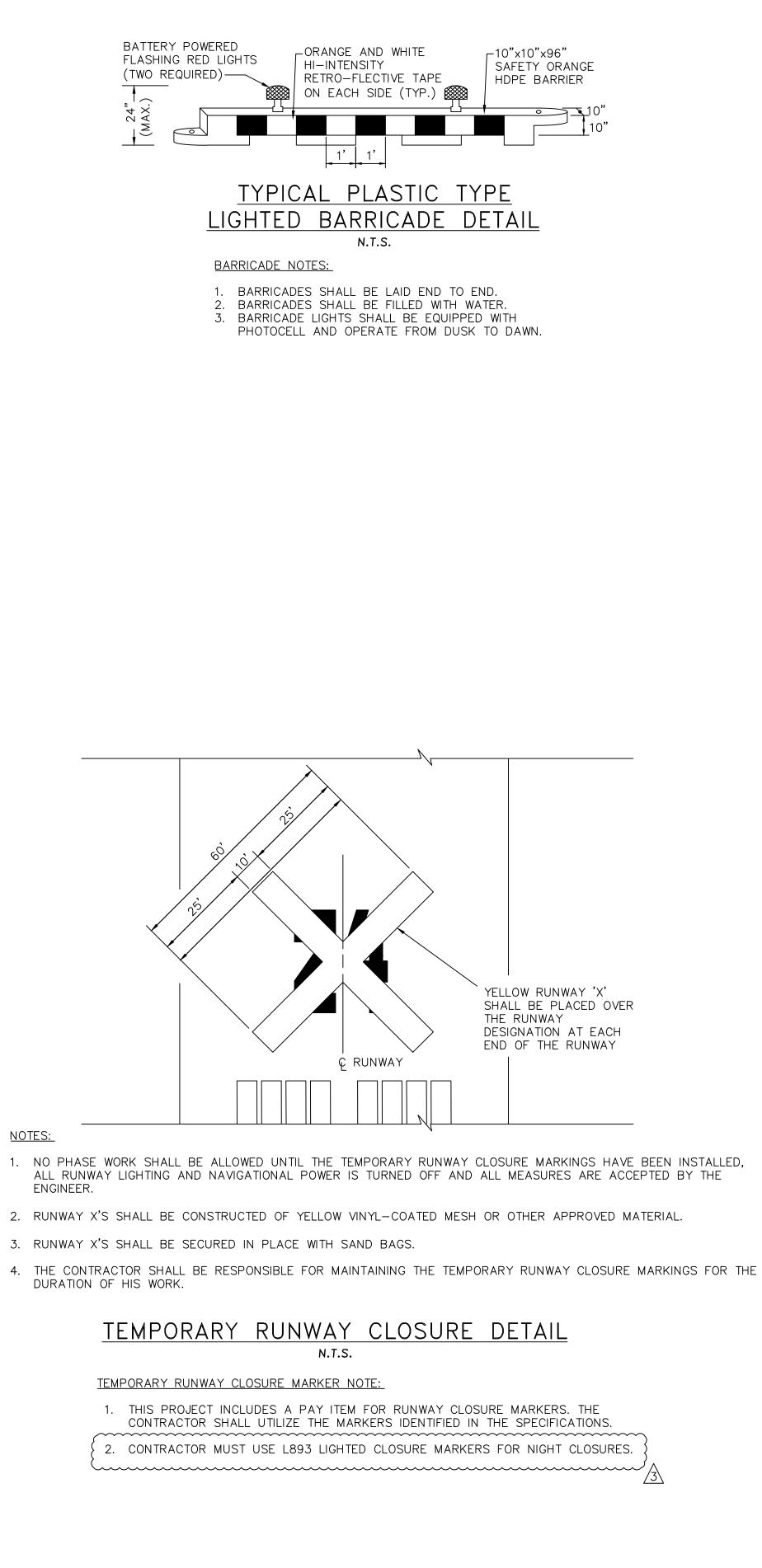
WORK AREA 1B NOTES:

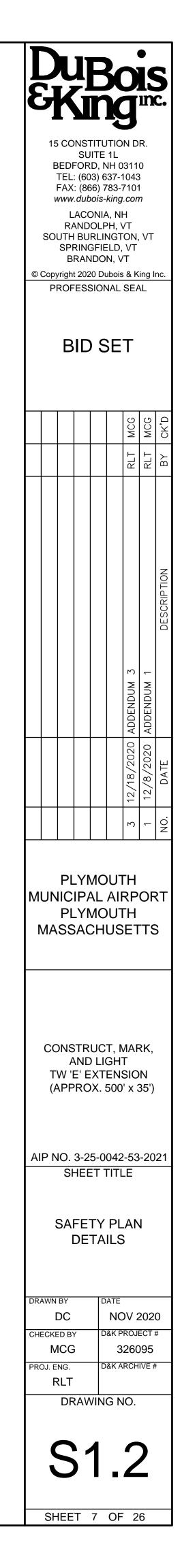
LOCATION: TAXIWAY 'N', TAXIWAY 'E' LOCATED INSIDE OF RUNWAY 6-24 SAFETY AREA

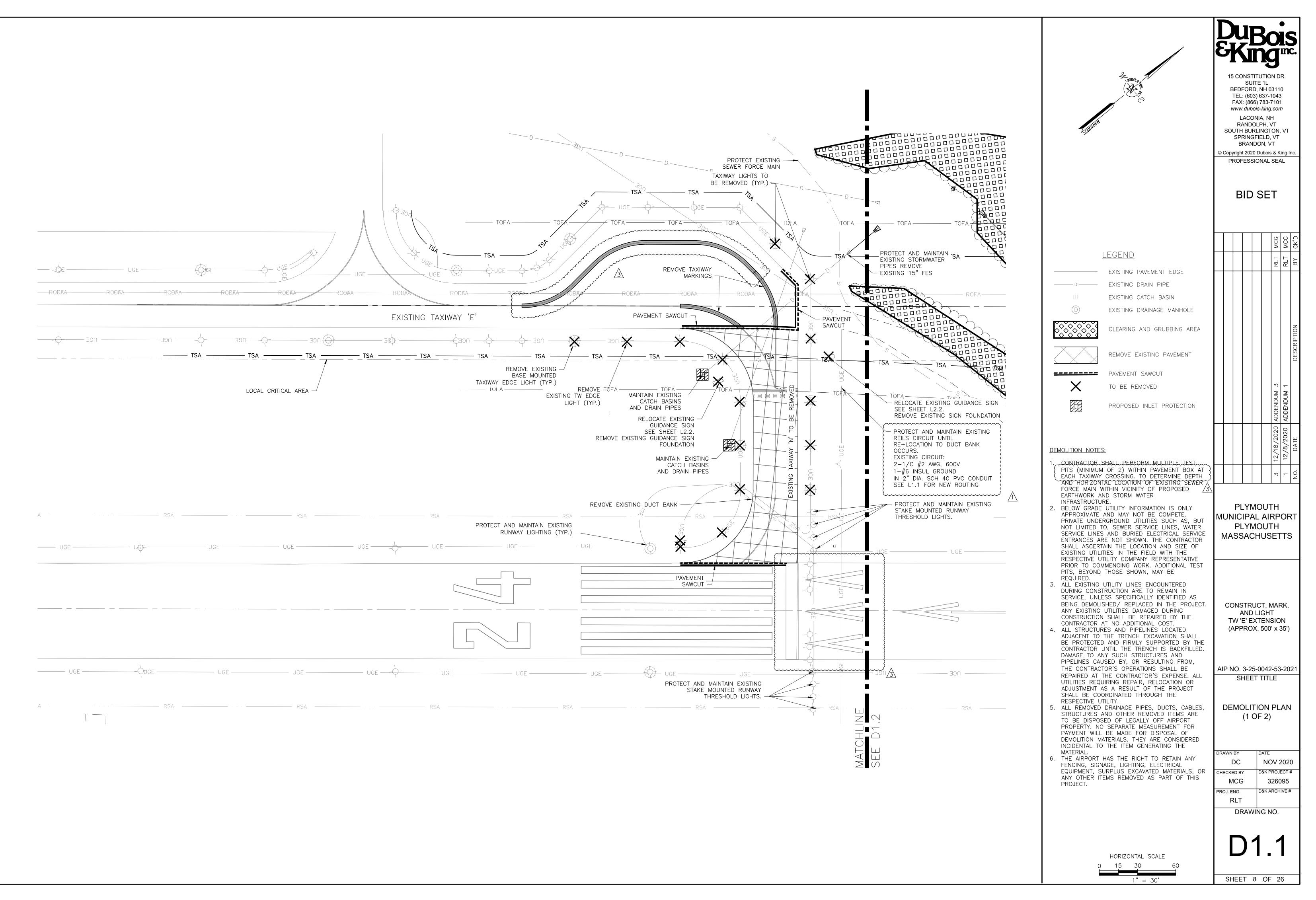
DURATION: 20 DAYS CONSECUTIVE. WORK IS CONCURRENT WITH PHASE 1A.

- AIRPORT AREAS IMPACTED:
- 4. RUNWAY 6-24 SHALL BE CLOSED DURING DAYLIGHT HOURS.
- 5. RUNWAY 6-24 MALS, REILS AND PAPI SHALL BE DE-ENERGIZED FOR DURATION OF CONSTRUCTION IN WORK AREA. RUNWAY 6-24 LOCALIZER, GLIDESLOPE SHALL REMAIN DISABLED UNTIL PROJECT COMPLETION AND FAA FLIGHTCHECK IS PERFORMED.
- 6. PORTIONS OF TAXIWAY 'E', 'F', 'J', 'K', 'L', AND 'S' SHALL BE CLOSED DURING CONSTRUCTION.
- 3. BARRICADES SHALL BE PLACED AS NOTED ON PLANS

<u>NOTES:</u>

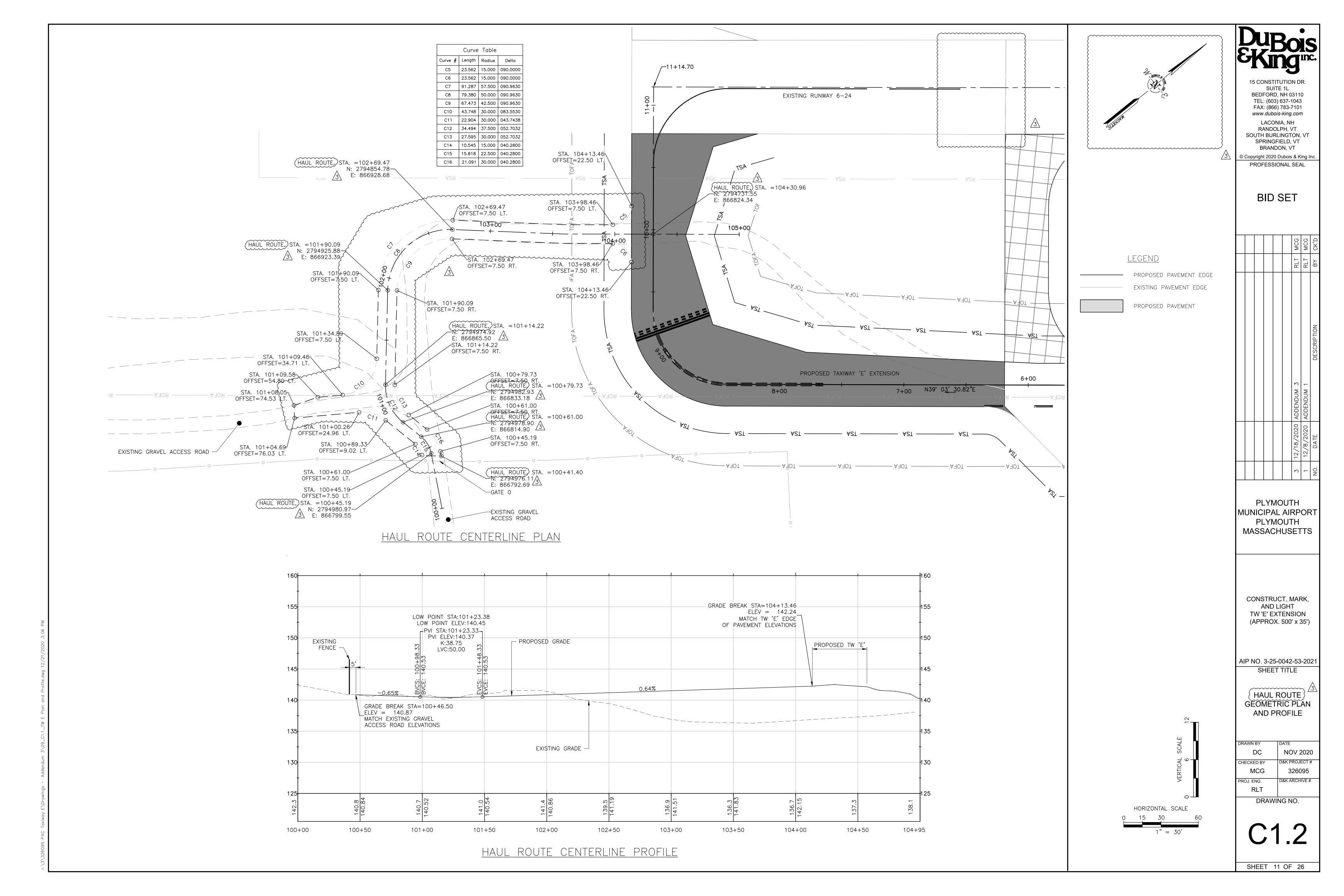


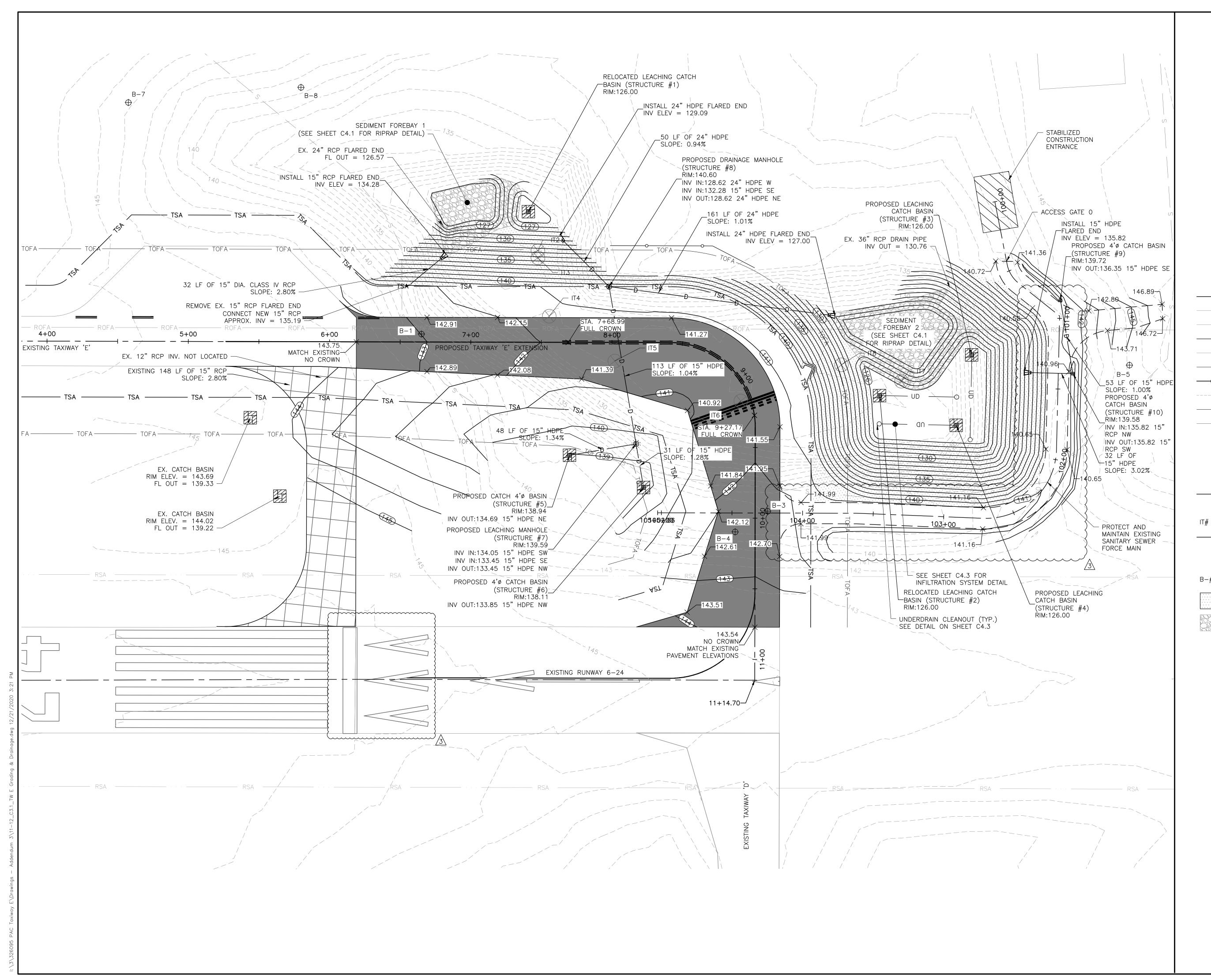




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15 CONSTITUTION DR.

SUITE 1L

BEDFORD, NH 03110

TEL: (603) 637-1043

FAX: (866) 783-7101

www.dubois-king.com LACONIA, NH

RANDOLPH, VT

SOUTH BURLINGTON, VT

SPRINGFIELD, VT

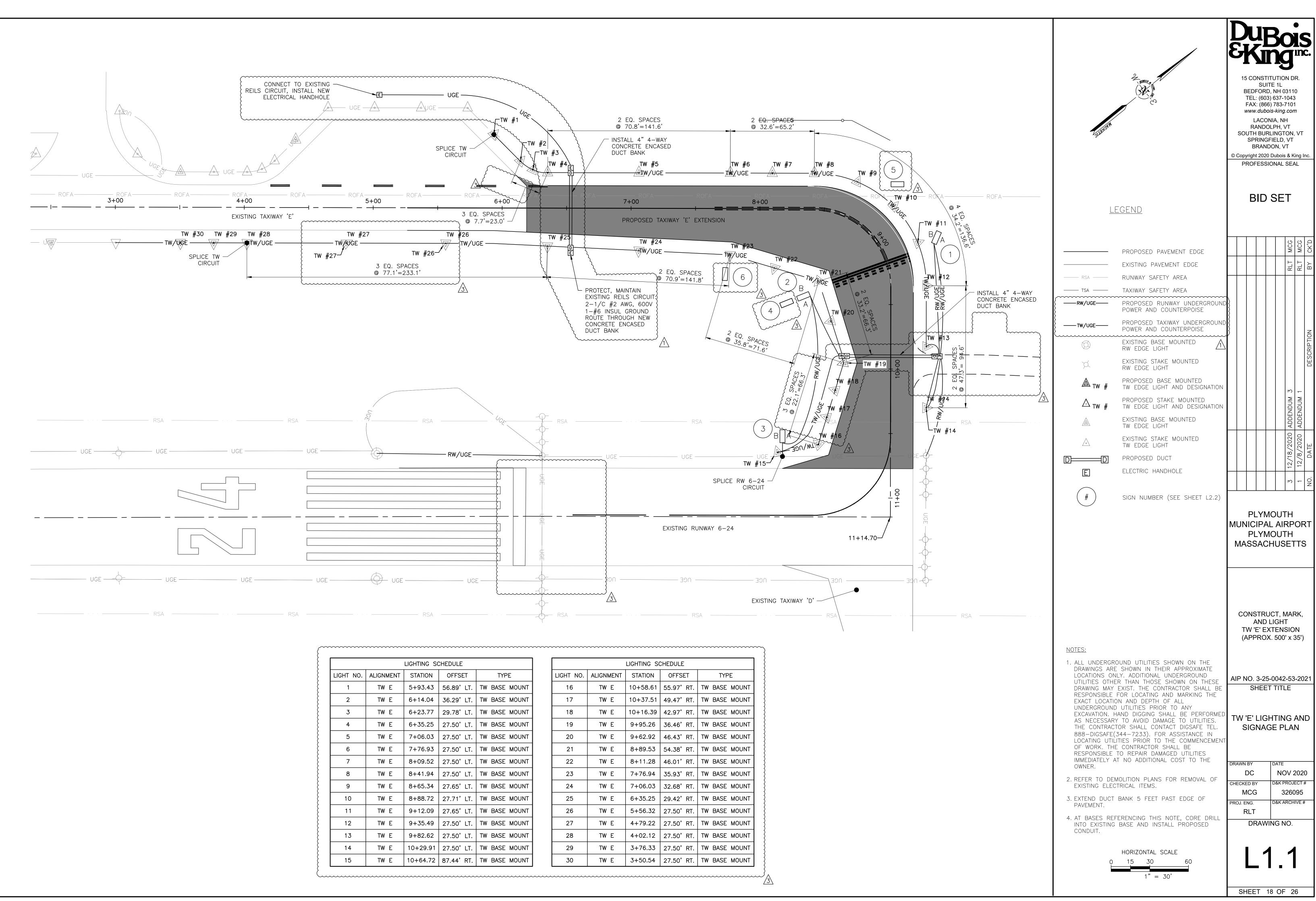
BRANDON, VT

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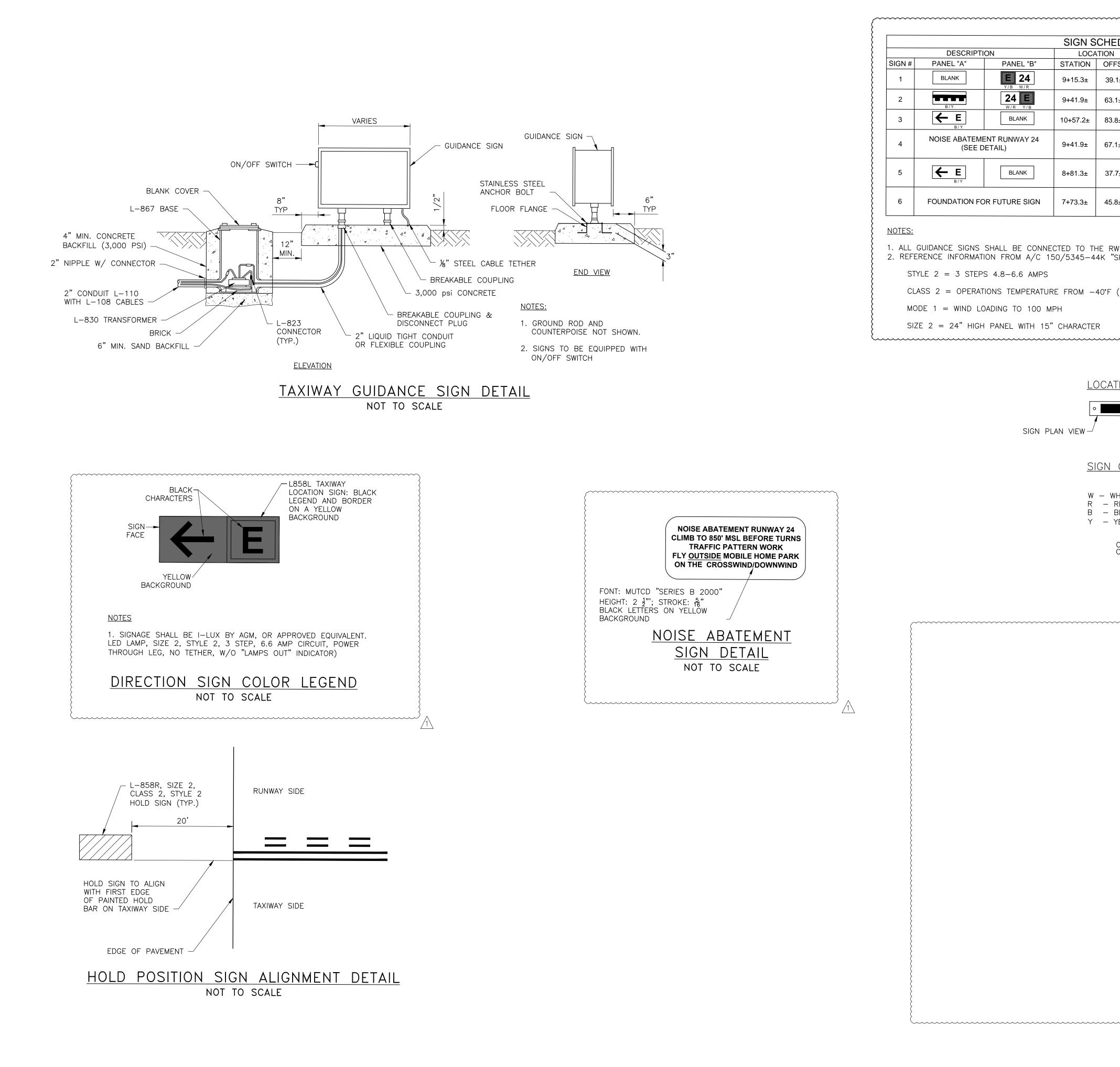
PROFESSIONAL SEAL

BID SET

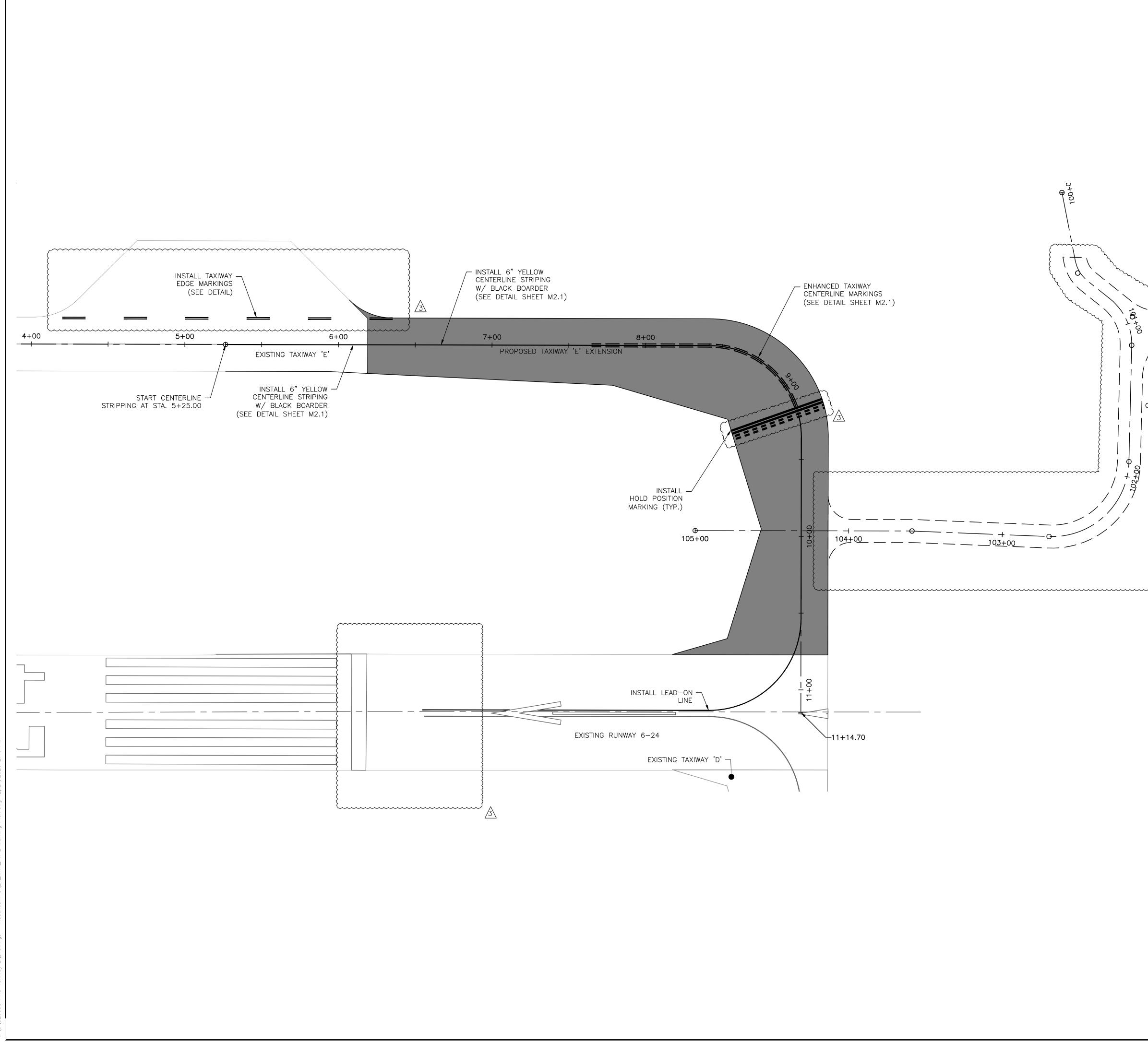
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	27.50'LT.	TW BASE MOUNT	21	TW E	8+89.53	54.38' RT.	TW BASE MOUNT		
	27.50'LT.	TW BASE MOUNT	22	TW E	8+11.28	46.01'RT.	TW BASE MOUNT		
	27.50'LT.	TW BASE MOUNT	23	TW E	7+76.94	35.93' RT.	TW BASE MOUNT		
	27.65'LT.	TW BASE MOUNT	24	TW E	7+06.03	32.68' RT.	TW BASE MOUNT		
	27.71'LT.	TW BASE MOUNT	25	TW E	6+35.25	29.42'RT.	TW BASE MOUNT		
	27.65'LT.	TW BASE MOUNT	26	TW E	5+56.32	27.50' RT.	TW BASE MOUNT		
	27.50'LT.	TW BASE MOUNT	27	TW E	4+79.22	27.50' RT.	TW BASE MOUNT		
	27.50'LT.	TW BASE MOUNT	28	TW E	4+02.12	27.50' RT.	TW BASE MOUNT		
	27.50'LT.	TW BASE MOUNT	29	TW E	3+76.33	27.50' RT.	TW BASE MOUNT		
	87.44'RT.	TW BASE MOUNT	30	TW E	3+50.54	27.50' RT.	TW BASE MOUNT		

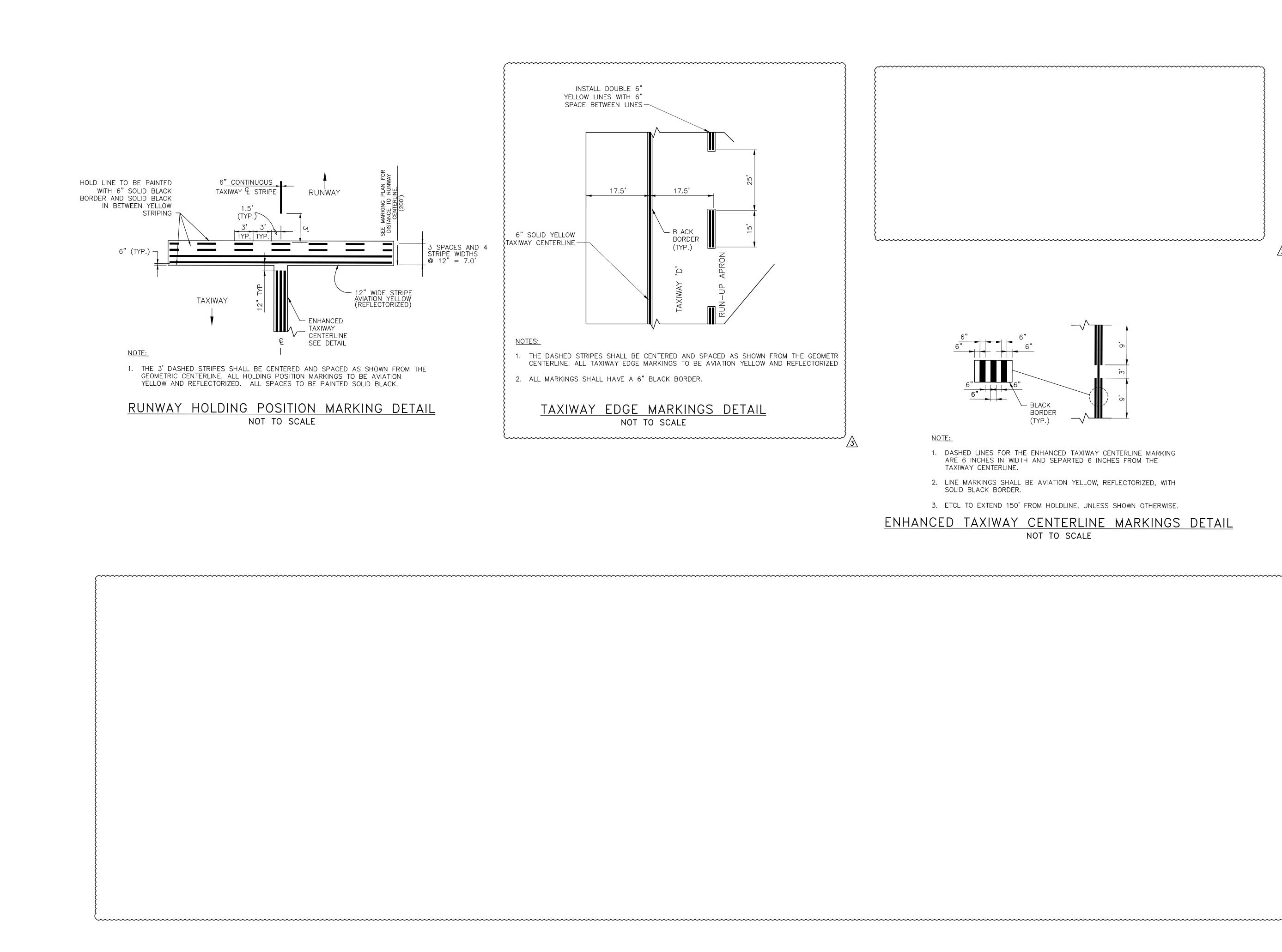


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	<b>F</b>				NSTITUTION DR. SUITE 1L
	E COMMENTS			TEL:	ORD, NH 03110 (603) 637-1043 (866) 783-7101
OFFSET 39.1± L	RELOCATED SIGN AND FOUNDATION			WWW.	dubois-king.com
63.1± R	RELOCATED SIGN AND FOUNDATION			RA SOUTH	NDOLPH, VT BURLINGTON, VT
83.8± R	NEW LED SIGN AND FOUNDATION			BF	INGFIELD, VT ANDON, VT
67.1± R	L-858Y, STYLE 4. TEXT WILL BE BLACK ON YELLOW BACKGROUND				2020 Dubois & King Ir ESSIONAL SEAL
37.7± L	NEW LED SIGN AND FOUNDATION			B	D SET
45.8± R	1.5 UNIT LENGTH GUIDANCE SIGN (AGM 1 LUX OR APPROVED EQUAL)				
					MCG MCG
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	<ol> <li>REFER TO "MARKING NOTES &amp; DETAILS" SHEET FOR MARKING NOTES.</li> <li>REFER TO "DEMOLITION PLAN" SHEETS FOR REMOVAL OF EXISTING MARKINGS.</li> <li>LOCATIONS OF EXISTING MARKINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.</li> </ol>		W 'E'	,	DA	ГЕ	PLA 2020	
	<ol> <li>TIE INTO EXISTING TAXIWAY CENTERLINE MARKINGS AS ORDERED BY THE ENGINEER.</li> <li>ALL MARKINGS SHALL INCLUDE A 6" BLACK BORDER.</li> </ol>		ECKED MC OJ. ENG RL	^{BY} G	D&ł	< PRO. 326 < ARCI	јест ≢ 6095 ні∨е #	#
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### SHEET 22 OF 26

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### MARKING DETAILS

AIP NO. 3-25-0042-53-2021 SHEET TITLE

AND LIGHT TW 'E' EXTENSION (APPROX. 500' x 35')

CONSTRUCT, MARK,

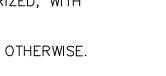
MUNICIPAL AIRPORT PLYMOUTH MASSACHUSETTS

PLYMOUTH

## PROFESSIONAL SEAL **BID SET**



15 CONSTITUTION DR.



3