

Portsmouth Regional Hospital Satellite Parking Lot Borthwick Avenue Portsmouth, New Hampshire

Wetland Impact Permit Application

Prepared For:

Portsmouth Regional Hospital 333 Borthwick Avenue Portsmouth, NH 03801

June 16, 2022

Tighe&Bond

P-0616-005 June 16, 2022

NH Department of Environmental Services Wetlands Bureau 29 Hazen Drive PO Box 95 Concord, NH 03302-0095

Re: Minor Impact Permit Application Portsmouth Regional Hospital Satellite Parking Lot Borthwick Avenue Portsmouth, New Hampshire

Dear NHDES Analyst:

Tighe & Bond is pleased to submit this Minor Impact Permit application package on behalf of Portsmouth Regional Hospital and HCA Healthcare Inc. for a proposed 501 paved satellite parking lot project to support the existing Hospital facility.

The proposed project is located at the northeast corner of the intersection of Borthwick Avenue and Eileen Dondero Foley Avenue in Portsmouth, New Hampshire. The parcel is identified as Tax Map 234, Lot 7-4A.

Jurisdictional Wetlands

Methods

Jurisdictional wetlands delineated at the project site on September 17, 2021 by Jeremy Degler (CWS #301, PWS #2809) of Tighe & Bond. Wetland criteria used included the following:

- U.S. Army *Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1* (January 1987)
- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (January 2012).

Wetlands were classified based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). Functional analysis of the wetlands was based on *The Highway Methodology Workbook Supplement—Wetland Functions and Values: A Descriptive Approach*, (NAEEP-360-1-30a, US Army Corps of Engineers, New England Division, September 1999), except that the Ecological Integrity function was based on the *Method for Inventorying and Evaluating Freshwater Wetlands in New Hampshire* (UNH Cooperative Extension, 2015).

Wetland Description and Functions

A total of five (5) wetland areas were delineated within $100\pm$ feet of Lot 7-4A. A detailed description of each jurisdictional area can be found in the Wetland Delineation Technical Memorandum within this submission, and a brief overview of those wetlands with proposed impacts are presented below.

There are no State Designated Rivers located within a quarter mile of the project area.

This application has been concurrently submitted and is being reviewed by City and State agencies. This application has not been submitted to federal agencies. Several updates to this

plan have been created from various comments received through the City's technical review process.

Wetland Functions

Two (2) of the five wetlands delineated within the property are being proposed to be partially impacted by this project (Wetlands 2 and 5).

Wetland 2 is a small (approximately 4,460 square feet) hydrologically isolated scrub-shrub wetland (PSS1E) located within a small clearing in an area with signs of significant past disturbances. This wetland exhibits low Ecological Integrity (New Hampshire Method average score of 4.4), has a small watershed, and does not retain any standing water. While the low grade, hydric soils, and dense vegetation could potentially support some minimal flood storage, groundwater recharge, or nutrient trapping/retention, the low quality, invasive species, small size, and landscape position of Wetland 2 leave it providing no real function or value to the surrounding landscape.

Wetland 5 is a larger (approximately 9,200 square feet) hydrologically isolated scrub-shrub wetland (PSS1E) located within an electric utility right-of-way with signs of significant past disturbances. Wetland 5 exhibits low Ecological Integrity (New Hampshire Method average score of 3.6). The low grade, location, and hydric soils appear to support a minimal amount of flood storage during extremely heavy precipitation. However, the low quality, invasive species, small size, and lack of vegetative diversity of Wetland 5 leave it providing no substantial or principal function or value to the surrounding landscape.

Additional information is provided on the attached Wetland Determination Data Forms and Functional Assessment Worksheets.

Proposed Activities

The proposed project will create a satellite parking area necessary to support the Portsmouth Regional Hospital's existing facility and to allow for future growth in patient care. The existing hospital is located at 333 Borthwick Avenue and is across the street from the proposed project parcel. The proposed project includes the construction of a new 501 space parking lot and will include associated site improvements such as lighting, landscaping, and stormwater management. Stormwater management will include underground detention and infiltration systems, and four (4) proprietary flow through treatment filtration devices for purposes of protecting water quality of stormwater runoff associated with these improvements.

Avoidance & Minimization Measures

The parking expansion will result in approximately 1,400 square feet of impact to Wetland 2 and approximately 7,320 square feet of impact to Wetland 3. However, given the location of existing facilities and available constructable area for expanding parking, and limited available land, this is the only practicable option for a parking expansion. Actual impacts to wetland functions will be negligible due to the overall lack of function or value, low quality, and presence of invasive species. What minimal function is present in the wetlands to be impacted (flood storage) will be offset with engineered solutions which will provide higher function and value than the existing conditions.

Other adjacent parcels to the Hospital facility are not practicable for this use as it would require larger impacts to wetland areas than what is proposed at this location.

Rare Species

A rare species review was completed by the NH Natural Heritage Bureau (NHB) on May 4, 2022 (NHB22-1544), and it was determined that although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, the NHB does not expect that it will be impacted by the proposed project.

Supplements

The following supporting documents can be found appended to this submittal:

- Appendix A Application and Attachments
 - Wetland Application
 - o Avoidance and Minimization Checklist
 - Attachment A
 - Copy of Fee
 - Residential, Commercial, and Industrial Development Worksheet
 - o Wetlands Functional Assessment Worksheets
 - Wetland Determination Data Forms
- Appendix B Environmental Reports
 - ACOE Appendix B
 - IPaC Species List
 - IPaC Consistency Letter
 - o NHB File #22-1544
 - Request for Project Review by NHDHR
 - Appendix C Maps and Figures
 - USGS Location Map
 - Tax Map
 - Wetland Delineation Technical Memorandum
 - o Wetland Photograph Log
 - Construction Sequence
 - Owner's Letter of Authorization
- Appendix D Abutter Information
 - Abutters List
 - o Abutter Notice
- Appendix E Site Plans

We trust the enclosed information addresses the requirements for a Wetland Application – Minor Impact. If you have any questions or require any additional information, please feel free to contact me.

Sincerely, **TIGHE & BOND, INC.**

Alexander Sellar, PE Project Engineer

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Patrick M. Crimmins, PE Vice President

Enclosures Copy: Portsmouth Regional Hospital Portsmouth City Clerk Portsmouth Conservation Commission Portsmouth Planning Board

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APPENDIX A



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION Water Division/Land Resources Management Wetlands Bureau



Check the Status of your Application

RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: Portsmouth Regional Hospital

TOWN NAME: Portsmouth

			File No.:
Administrative Use	Administrative Use	Administrative Use	Check No.:
Only	Only	Only	Amount:
			Initials:

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the Waiver Request Form.

SEC	SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))			
<u>Res</u>	Please use the <u>Wetland Permit Planning Tool (WPPT</u>), the Natural Heritage Bureau (NHB) <u>DataCheck Tool</u> , the <u>Aquatic</u> <u>Restoration Mapper</u> , or other sources to assist in identifying key features such as: <u>priority resource areas (PRAs)</u> , <u>protected species or habitats</u> , coastal areas, designated rivers, or designated prime wetlands.			
Has	the required planning been completed?	🛛 Yes 🗌 No		
Doe	es the property contain a PRA? If yes, provide the following information:	🗌 Yes 🔀 No		
•	Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	🗌 Yes 🔀 No		
•	Protected species or habitat? If yes, species or habitat name(s): NHB Project ID #: NHB22-1544 	🗌 Yes 🔀 No		
•	Bog?	🗌 Yes 🔀 No		
•	Floodplain wetland contiguous to a tier 3 or higher watercourse?	🗌 Yes 🔀 No		
•	Designated prime wetland or duly-established 100-foot buffer?	🗌 Yes 🔀 No		
•	Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	🗌 Yes 🔀 No		
ls tl	Is the property within a Designated River corridor? If yes, provide the following information:			
•	Name of Local River Management Advisory Committee (LAC):			
•	A copy of the application was sent to the LAC on Month: Day: Year:			

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

For dredging projects, is the subject property contaminated?If yes, list contaminant:	🗌 Yes 🔀 No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	🔀 Yes 🗌 No
For stream crossing projects, provide watershed size (see <u>WPPT</u> or Stream Stats): n/a	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))	
Provide a brief description of the project and the purpose of the project, outlining the scope of work to and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space below.	•
The existing Portsmouth Regional Hospital building is operating with 783 parking spaces, which the foutgrown and is 32% less than the minimum required by local zoning. The proposed project include construction of a new 501 space satellite parking lot across the street from the existing hospital. Thi parking is necessary to support Portsmouth Regional Hospital's existing facility and to allow for future patient care.	s the s additional
The project proposes 8,720 sf of permanent impacts to on site wetlands.	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland im	pacts occur.
ADDRESS: TBD - Borthwick Avenue	
TOWN/CITY: Portsmouth	
TAX MAP/BLOCK/LOT/UNIT: Map 234 Lot 7-4A	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME:	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	
° West	

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INI	FORMATION (Env-Wt 311.0	4(a))	
If the applicant is a trust or a company, then complete with the trust or company information.			
NAME: Portsmouth Regional Hospital			
MAILING ADDRESS: 333 Borthwick Avenue			
TOWN/CITY: Portsmouth		STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: Matthew.Larkin@hcahealthcare.com			
FAX:	PHONE: 603 436 5110		
ELECTRONIC COMMUNICATION: By initialing here: relative to this application electronically.	, I hereby authorize NHDE	S to communicat	e all matters
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-	Wt 311.04(c))		
LAST NAME, FIRST NAME, M.I.: Patrick M Crimmins			
COMPANY NAME: Tighe & Bond			
MAILING ADDRESS: 177 Corporate Drive			
OWN/CITY: Portsmouth ZIP CODE: 03801			ZIP CODE: 03801
EMAIL ADDRESS: pmcrimmins@tighebond.com			
AX: PHONE: 603 433 8818			
ELECTRONIC COMMUNICATION: By initialing here PMC, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFF If the owner is a trust or a company, then complete with Same as applicant	•••	•)))
NAME: Portsmouth Regional Hospital is a subsidiary of HCA Healthcare Inc.			
MAILING ADDRESS:			
TOWN/CITY: STATE: ZIP CODE:			
EMAIL ADDRESS:			·
FAX:	PHONE:		
ELECTRONIC COMMUNICATION: By initialing here to this application electronically.	, I hereby authorize NHDES	to communicate	all matters relative

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):

The resource-specific criteria in Env-Wt 600, 700, and 900 do not apply to this project as there will be no coastal or tidal impacts, no prime wetlands are present within the project area, and there will be no stream crossings associated with this project. This project does not qualify for a project-type exception under Env-Wt 407.04.

This project is not located within a Priority Resource Area and there will be no fill in public waters to make land.

Jeremy Degler, CWB, CWS, PWS, of Tighe & Bond delineated wetlands within the project parcel on September 17, 2021 utilizing the criteria specified in Env-Wt 406.01.

The wetland impact is necessary to accommodate the parking needed for the existing Hospital facility. Small pocket wetlands are impacted, though the project does not propose to impact the larger wetland complex and its 100 ft buffer. There is no practical alternative that would have less adverse impact of the area per Env-Wt 313.03.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the <u>Wetlands Best Management</u> <u>Practice Techniques For Avoidance and Minimization</u> and the <u>Wetlands Permitting: Avoidance, Minimization and</u> <u>Mitigation Fact Sheet</u>. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the <u>Avoidance and Minimization Checklist</u>, the <u>Avoidance and Minimization Narrative</u>, or your own avoidance and minimization narrative.

*See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation <u>pre-application meeting</u> must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Year:

Mitigation Pre-Application Meeting Date: Month: Day:

(N/A - Mitigation is not required)

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: I confirm submittal.

N/A – Compensatory mitigation is not required)

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt* 309.02(d), however other dredge or fill impacts should be included below.

For perennial streams/rivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT		TEMPORARY			
		SF	LF	ATF	SF	LF	ATF
	Forested Wetland						
	Scrub-shrub Wetland	8720					
spu	Emergent Wetland						
Wetlands	Wet Meadow						
Ň	Vernal Pool						
	Designated Prime Wetland						
	Duly-established 100-foot Prime Wetland Buffer						
er	Intermittent / Ephemeral Stream						
Vat	Perennial Stream or River						
ce V	Lake / Pond						
Surface Water	Docking - Lake / Pond						
Su	Docking - River						
	Bank - Intermittent Stream						
Banks	Bank - Perennial Stream / River						
Ba	Bank / Shoreline - Lake / Pond						
	Tidal Waters						
Ī	Tidal Marsh						
Tidal	Sand Dune						
Ξ	Undeveloped Tidal Buffer Zone (TBZ)						
Ī	Previously-developed TBZ						
	Docking - Tidal Water						
	TOTAL	8720					
SEC	FION 12 - APPLICATION FEE (RSA 482-A:3, I)						
_ r	MINIMUM IMPACT FEE: Flat fee of \$400.						
	ION-ENFORCEMENT RELATED, PUBLICLY-FUNI		SUPERVISE	D RESTORAT		CTS. REGARDL	ESS OF
	MPACT CLASSIFICATION: Flat fee of \$400 (refe						
	MINOR OR MAJOR IMPACT FEE: Calculate using						
	Permanent and temporar	-		20 SF		× \$0.40 =	\$ 3,488
			\$				
				\$			
		-			uding docks	add \$400 =	\$
						Total =	\$ 3,488
The	application fee for minor or major impact is t	ha ahaya i	calculated 4	total or \$100	whichows		\$ 3,488
me	application ree for minor or major impact is t			iotal of \$400	, whicheve	i is greater =	٥,408 ڊ

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05) Indicate the project classification.					
	Minor Project Classification.				
	- REQUIRED CERTIFICATIONS (Env-Wt	-			
	box below to certify:	511.11)			
Initials:	box below to certify.				
PMC	To the best of the signer's knowledge and belief, all required notifications have been provided.				
Initials: PMC	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.				
Initials: PMC	 The signer understands that: The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: Deny the application. Revoke any approval that is granted based on the information. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the SIA 482-A:6, II. 				
Initials: PMC				ertification by	
	- REQUIRED SIGNATURES (Env-Wt 311		-		
SIGNATURE (See Owner's	OWNER): s/Agent Letter of Authorization (App. C)	PRINT NAME LEGIE	BLY:		DATE:
	APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIE	BLY:		DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIE Patrick M. Crimmin			DATE:
SECTION 16 - TOWN / CITY CLERK SIGNATURE (Env-Wt 311.04(f))					
	As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.				
	Y CLERK SIGNATURE:			/IE LEGIBLY:	
TOWN/CIT	Y:		DATE:		

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

- 1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
- 2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
- 3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.
- 4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".



AVOIDANCE AND MINIMIZATION CHECKLIST Water Division/Land Resources Management Wetlands Bureau <u>Check the Status of your Application</u>



RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in <u>Attachment A: Minor and Major Projects</u> (NHDES-W-06-013).

The following definitions and abbreviations apply to this worksheet:

- "A/M BMPs" stands for <u>Wetlands Best Management Practice Techniques for Avoidance and Minimization</u> dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- "Practicable" means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION

APPLICANT LAST NAME, FIRST NAME, M.I.: Portsmouth Regional Hospital c/o Matthew Larkin

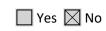
PROJECT STREET ADDRESS: TBD - Borthwick Avenue

PROJECT TOWN: Portsmouth

TAX MAP/LOT NUMBER: Map 234 Lot 7-4A

SECTION 2 - PRIMARY PURPOSE OF THE PROJECT

Env-Wt 311.07(b)(1) Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.



If you answered "no" to this question, describe the purpose of the "non-access" project type you have proposed:

The primary purpose of this project is to create a satellite parking lot to support to the adjacent Hospital facility. The proposed parking lot was designed in a way to entirely avoid impacts to the larger, high-quality wetland complex within the site and minimize impacts to the maximum extent practical to the remaining smaller wetland areas.

SECTION 3 - A/M PROJECT DESIGN TECHNIQUES

Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.

	not applicable for each teeningde that is not applicable to your project.	
Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs.	☐ Check ⊠ N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	Check
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	Check
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	🔀 Check 🔲 N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department's jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	Check
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	Check
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	🔀 Check
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	🔀 Check
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	Check
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	Check
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	Check
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	☐ Check ⊠ N/A

A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	Check
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	Check
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	Check
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	Check
SECTION 4 - NON-TID	AL SHORELINE STRUCTURES	
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	Check
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	Check
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	Check
Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	☐ Check ⊠ N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	☐ Check ⊠ N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.	Check



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION ATTACHMENT A: MINOR AND MAJOR PROJECTS Water Division/Land Resources Management Wetlands Bureau



Check the Status of your Application

RSA/ Rule: RSA 482-A/ Env-Wt 311.10; Env-Wt 313.01(a)(1); Env-Wt 313.03

APPLICANT'S NAME: Portsmouth Regional Hospital TOWN NAME: Portsmouth

Attachment A is required for all minor and major projects, and must be completed in addition to the Avoidance and Minimization Narrative or Checklist that is required by Env-Wt 307.11.

For projects involving construction or modification of non-tidal shoreline structures over areas of surface waters having an absence of wetland vegetation, only Sections I.X through I.XV are required to be completed.

PART I: AVOIDANCE AND MINIMIZATION

In accordance with Env-Wt 313.03(a), the Department shall not approve any alteration of any jurisdictional area unless the applicant demonstrates that the potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized, as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization.

SECTION I.I - ALTERNATIVES (Env-Wt 313.03(b)(1))

Describe how there is no practicable alternative that would have a less adverse impact on the area and environments under the Department's jurisdiction.

THE NEEDED PARKING LOT WILL RESULT IN 8,720 SF OF WETLAND IMPACT, FILLING PORTIONS OF 2 SMALL WETLANDS WITHIN THE PROJECT LIMITS. THE LAYOUT OF THE PROPOSED PARKING FIELD WAS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE THUS AVOIDING IMPACTS TO THE LARGER WETLAND COMPLEX AND IT'S BUFFER WITHIN THE SITE PARCEL'S BOUNDS. FURTHER THE PROJECT PROPOSES APPROXIMATELY 19,000 SF OF NATIVE BUFFER PLANTINGS TO ENHANCE THE LARGER WETLAND'S FUNCTIONS AND VALUES.

TO MINIMIZE ENVIRONMENTAL IMPACTS TO THE MAXIMUM EXTENT PRACTICABLE, THIS PROJECT INCLUDES STORMWATER TREATMENT FOR THE PROPOSED IMPERVIOUS AREAS WHICH WILL OFFSET ANY LOSS OF FUNCTION OR VALUE.

SECTION I.II - MARSHES (Env-Wt 313.03(b)(2))

Describe how the project avoids and minimizes impacts to tidal marshes and non-tidal marshes where documented to provide sources of nutrients for finfish, crustacean, shellfish, and wildlife of significant value.

n/a

SECTION I.III - HYDROLOGIC CONNECTION (Env-Wt 313.03(b)(3))

Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.

The project maintains continuity between adjacent wetlands by maintaining stormwater flow patterns that are relatively consistent with the existing condition. For example, the project proposes to extend an existing culvert through the work limit and discharge into the same wetland complex as the existing condition without restrictions. Further, the project primarily captures and directs stormwater flow to discharge to the same location as the existing condition.

SECTION I.IV - JURISDICTIONAL IMPACTS (Env-Wt 313.03(b)(4))

Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

The impacted wetland areas do not meet the criteria of an exemplary natural community or vernal pool. It is not comprised of protected species and habitat, documented fisheries, or habitat and reproduction areas for species of concern.

The affected wetlands appear to be highly disturbed from previous construction activities. One affected wetland is fed from a previously constructed culvert pipe beneath a roadway and another was created due to poor grading from utility work associated with the easement that runs through the site.

SECTION I.V - PUBLIC COMMERCE, NAVIGATION, OR RECREATION (Env-Wt 313.03(b)(5))

Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.

There will be no impact on public commerce, navigation, and recreation as a result of the proposed project.

SECTION I.VI - FLOODPLAIN WETLANDS (Env-Wt 313.03(b)(6))

Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.

n/a

SECTION I.VII - RIVERINE FORESTED WETLAND SYSTEMS AND SCRUB-SHRUB – MARSH COMPLEXES (Env-Wt 313.03(b)(7))

Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.

SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8))

Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.

The proposed project will not impact the quality of surface water or groundwater. The increased stormwater load created by the new impervious surfaces proposed as part of this project will be fully treated in accordance with the NHDES Env-Wq 1500 Alteration of Terrain regulations.

SECTION I.IX - STREAM CHANNELS (Env-Wt 313.03(b)(9))

Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.

SECTION I.X - SHORELINE STRUCTURES - CONSTRUCTION SURFACE AREA (Env-Wt 313.03(c)(1))

Describe how the project has been designed to use the minimum construction surface area over surface waters necessary to meet the stated purpose of the structures.

n/a

SECTION I.XI - SHORELINE STRUCTURES - LEAST INTRUSIVE UPON PUBLIC TRUST (Env-Wt 313.03(c)(2))

Describe how the type of construction proposed is the least intrusive upon the public trust that will ensure safe docking on the frontage.

SECTION I.XII - SHORELINE STRUCTURES - ABUTTING PROPERTIES (Env-Wt 313.03(c)(3))

Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.

n/a

SECTION I.XIII - SHORELINE STRUCTURES – COMMERCE AND RECREATION (Env-Wt 313.03(c)(4))

Describe how the structures have been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.

SECTION I.XIV - SHORELINE STRUCTURES – WATER QUALITY, AQUATIC VEGETATION, WILDLIFE AND FINFISH HABITAT (Env-Wt 313.03(c)(5))

Describe how the structures have been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.

n/a

SECTION I.XV - SHORELINE STRUCTURES – VEGETATION REMOVAL, ACCESS POINTS, AND SHORELINE STABILITY (Env-Wt 313.03(c)(6))

Describe how the structures have been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.

PART II: FUNCTIONAL ASSESSMENT

REQUIREMENTS

Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).

FUNCTIONAL ASSESSMENT METHOD USED:

USACE Highway Methodology, NH Method (for Ecological Integrity)

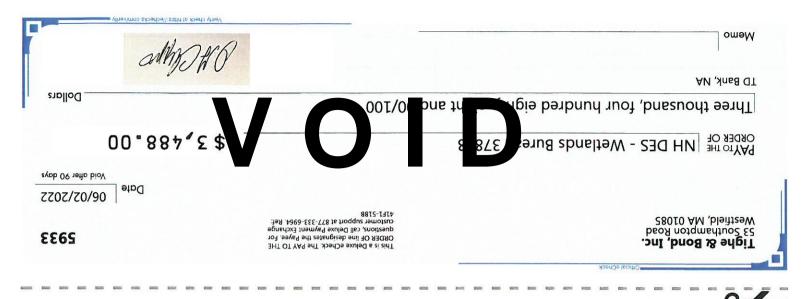
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: JEREMY DEGLER (NH CWS #301)

DATE OF ASSESSMENT: 9/17/2021 & 11/22/2021

Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT:

For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable:

Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.



Check appears upside down intentionally

Cut along this line

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Step 1	Step 2	Step 3
Print the check	Validate it printed correctly	Deposit like normal
 Any printer works Black or color ink Basic white paper 	 Correct if bank numbers are: Centered in white space Parallel to edge of the page Clearly printed in dark black ink Reprint if bank numbers are: Cut off, skewed, or off-center Smudged or wrinkled Too light to read 	 Cut on the dotted line above Endorse the back Deposit like normal: In-person at a bank or credit union Using an ATM Via smartphone mobile deposit With an office check scanner

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For your records

Issued date: 2022-06-02 Check number: 5933 From: Tighe & Bond, Inc. Amount: \$3488.00 Payable to: NH DES - Wetlands Bureau ... Delivery email: asellar@tighebond.com Memo: None Documents: Yes - see Remittance below Delivery message: Hi, attached is your Tighe & Bon d electronic check. Any questions please email AP@ tighebond.com. Are you a business? To save time, money, and resources, make payments using Deluxe Payment Exchange. Call 877-333-6964 to get started today!



How to use this check



RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL DEVELOPMENT PROJECT-SPECIFIC WORKSHEET FOR STANDARD APPLICATION Water Division/Land Resources Management Wetlands Bureau <u>Check the Status of your Application</u>



RSA/Rule: RSA 482/ Env-Wt 524

APPLICANT LAST NAME, FIRST NAME, M.I.: Portsmouth Regional Hospital

This worksheet summarizes the criteria and requirements for a Standard Permit for "Residential, Commercial, and Industrial Development", one of the 18 specific project types in Chapter Env-Wt 500. In addition to the project-specific criteria and requirements on this worksheet, all Standard Dredge and Fill Applications must meet the criteria and requirements listed in the Standard Dredge and Fill Application form (NHDES-W-06-012).

SECTION 1 - APPLICABILITY (Env-Wt 509.02(b); Env-Wt 524.01)

The information in this worksheet applies to residential, commercial, and industrial development projects, including associated roadways, in non-tidal wetlands.

Do not use this worksheet if the project is located in a coastal (tidal) area.

SECTION 2 - APPROVAL CRITERIA FOR RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL DEVELOPMENT PROJECTS (Env-Wt 524.02)

An application for a residential, commercial or industrial development project must meet the following criteria:

The project must meet the applicable criteria established in Env-Wt 300;

- An off-site alternatives analysis is conducted for any project that will result in more than one acre of permanent wetland impacts;
- The project avoids and minimizes impacts to wetlands, watercourses, and sensitive and valuable wetlands in accordance with Env-Wt 313.03;
- The project complies with the design criteria specified in Env-Wt 524.04 and the construction criteria specified in Env-Wt 524.05; and
 - Compensatory mitigation is provided for any new residential, commercial, or industrial development in a Priority Resource Area.

SECTION 3 - APPLICATION REQUIREMENTS FOR RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL DEVELOPMENT PROJECTS (Env-Wt 524.03)

For all projects requiring subdivision approval, a plan prepared and stamped by a land surveyor licensed in the State of New Hampshire pursuant to RSA 310-A showing existing and proposed topography and the location of all proposed lot lines;

For all projects requiring subdivision approval, the following clearly delineated on the plan required above: the boundaries of all wetlands and surface waters and the footprint of all proposed impacts;

For minor and major projects requiring subdivision approval, wetlands classifications clearly indicated in
accordance with Env-Wt 400 on the plan required above; and

For a project that is associated with one or more phases of a multi-phase subdivision, a project impact plan that also shows all wetlands on remaining property proposed for future phases of development.

Please note that permits for subdivisions of 4 or more lots shall not be effective until the permittee records the permit with the appropriate registry of deeds and a copy of the registered permit has been received by the department.

An application for a residential, commercial or industrial development project must include the following information:

If the project includes components that are subject to multiple project-specific requirements in Chapter Env-Wt 500, a narrative statement and plan that describes how each project-specific component meets the requirements of the applicable part in Chapter Env-Wt 500 and how the project as a whole impacts jurisdictional areas.

SECTION 4 - DESIGN REQUIREMENTS FOR RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL DEVELOPMENT PROJECTS (Env-Wt 524.04)

In addition to meeting the applicable design requirements established in Env-Wt 300, a residential, commercial, or industrial development project must be designed to meet the following criteria:

- The project complies with all applicable requirements of Env-Wt 400, Env-Wt 700, Env-Wt 800, Env-Wt 900, and other applicable project-specific criteria in Chapter Env-Wt 500;
- The project does not use wetlands or surface waters to serve as stormwater or water quality treatment to mitigate impacts;
- The project provides setbacks and water quality protection measures sufficient to protect private and public drinking water supplies, source water protection areas, and fisheries;
- The project maintains or restores hydrologic connections to maintain flows necessary to preserve adjacent wetland and riparian functions;
- The project maintains existing fishery spawning, feeding, or cover habitat and fish passage necessary to maintain fishery or habitat or populations; and
- The project maintains existing wetland-dependent wildlife habitat and its associated migratory pathways, reproductive sites, and associated wetland complex or wetland community system.

ndards specified in Env-Wt 307 and other applicable project- ing requirements apply to residential, commercial, or industrial
rtment at least 48 hours prior to commencing work; and
ne approved plan.
ND COMMERCIAL OR INDUSTRIAL DEVELOPMENT
nt projects shall be classified under Env-Wt 407 and as follows:
y if:
ct meet the requirements for minimum impact classification
e requirements for minimum impact classification specified in
of 4 or more lots; and
in (d) below.
project only if:
a new subdivision of 3 lots or less;
mission meeting with the department at least 7 days prior to nent feedback in the design plan; and
in (d) below.
roject does not meet the criteria listed in (d) below and if any of
e project meets the requirements for minor impact classification
or more lots;
he requirements for minor impact classification specified in 500; or
irements for major impact classification specified in 500.
a;
requirements for major impact classification specified in Env-Wt pject classification that is part of the overall project; or
ion undertaken by a developer or is part of a series of



WETLANDS FUNCTIONAL ASSESSMENT WORKSHEET Water Division/Land Resource Management Wetlands Bureau Check the Status of your Application



RSA/Rule: RSA 482-A / Env-Wt 311.03(b)(10); Env-Wt 311.10

APPLICANT LAST NAME, FIRST NAME, M.I.: Portsmouth Regional Hospital c/o Matthew Larkin

As required by Env-Wt 311.03(b)(10), an application for a standard permit for minor and major projects must include a functional assessment of all wetlands on the project site as specified in Env-Wt 311.10. This worksheet will help you compile data for the functional assessment needed to meet federal (US Army Corps of Engineers (USACE); if applicable) and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the <u>Coastal Area</u> <u>Worksheet (NHDES-W-06-079)</u> for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the <u>Avoidance and Minimization Written Narrative (NHDES-W-06-089)</u> and the <u>Avoidance and Minimization</u> <u>Checklist (NHDES-W-06-050)</u> to address Env-Wt 313.03 (Avoidance and Minimization). If more than one wetland/ stream resource is identified, multiple worksheets can be attached to the application. All wetland, vernal pools, and stream identification (ID) numbers are to be displayed and located on the wetlands delineation of the subject property.

SECTION 1 - LOCATION (USACE HIGHWAY METHODOLOGY)

ADJACENT LAND USE: Forested undeveloped, paved roadway (Borthwick Avenue), residential

CONTIGUOUS UNDEVELOPED BUFFER ZONE PRESENT? Ves X No

DISTANCE TO NEAREST ROADWAY OR OTHER DEVELOPMENT (in feet): Approximately 25

SECTION 2 - DELINEATION (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)

CERTIFIED WETLAND SCIENTIST (if in a non-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who prepared this assessment: Jeremy Degler (NH CWS #301)

DATE(S) OF SITE VISIT(S): 9/17/2021, 11/22/2021	DELINEATION PER ENV-WT 406 COMPLETED? Xes No	
CONFIRM THAT THE EVALUATION IS BASED ON:		
Office and		
Field examination.		
METHOD USED FOR FUNCTIONAL ASSESSMENT (check one and fill in blank if "other"):		
USACE Highway Methodology.		
Other scientifically supported method (enter name/ title): NH Method (for Ecological Integrity)		

SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)				
WETLAND ID: Wetland 2	LOCATION: (LAT/ LONG) 43.067359/-70.783336			
WETLAND AREA: Approximately 4,460 square feet (SF)	DOMINANT WETLAND SYSTEMS PRESENT: Scrub-shrub			
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND?	COWARDIN CLASS: PSS1E			
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM? Yes No if not, where does the wetland lie in the drainage basin?	IS THE WETLAND PART OF: A wildlife corridor or A habitat island? IS THE WETLAND HUMAN-MADE?			
IS THE WETLAND IN A 100-YEAR FLOODPLAIN?	ARE VERNAL POOLS PRESENT?			
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER SYSTEM? Yes No ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTR DOWNGRADIENT? Yes No				
PROPOSED WETLAND IMPACT TYPE: Parking lot	PROPOSED WETLAND IMPACT AREA: Approx. 1,400 SF			
SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE H	IIGHWAY METHODOLOGY; Env-Wt 311.10)			
 The following table can be used to compile data on wetlands functions and values. The reference numbers indicated in the "Functions/ Values" column refer to the following functions and values: 1. Ecological Integrity (from RSA 482-A:2, XI) 2. Educational Potential (from USACE Highway Methodology: Educational/Scientific Value) 3. Fish & Aquatic Life Habitat (from USACE Highway Methodology: Fish & Shellfish Habitat) 4. Flood Storage (from USACE Highway Methodology: Floodflow Alteration) 5. Groundwater Recharge (from USACE Highway Methodology: Threatened or Endangered Species Habitat) 7. Nutrient Trapping/Retention & Transformation (from USACE Highway Methodology) 9. Scenic Quality (from USACE Highway Methodology: Visual Quality/Aesthetics) 10. Sediment Trapping (from USACE Highway Methodology: Sediment /Toxicant Retention) 11. Shoreline Anchoring (from USACE Highway Methodology: Sediment/Shoreline Stabilization) 12. Uniqueness/Heritage (from USACE Highway Methodology: Sediment/Shoreline Stabilization) 13. Wetland-based Recreation (from USACE Highway Methodology): Recreation) 14. Wetland-dependent Wildlife Habitat (from USACE Highway Methodology: Wildlife Habitat) 				
First, determine if a wetland is suitable for a particular function and value ("Suitability" column) and indicate the rationale behind your determination ("Rationale" column). Please use the rationale reference numbers listed in Appendix A of USACE <i>The Highway Methodology Workbook Supplement</i> . Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in <i>The Highway Methodology Workbook Supplement</i> , "functions and values can be principal if they are an important physical component of a wetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective". "Important Notes" are to include characteristics the evaluator used to determine the principal function and value of the wetland.				

FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE (Reference #)	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	☐ Yes ⊠ No	Average Ecological Integrity Score = 4.4 (1, 5, 10, 1, 5, 1, 5, 1, 5, 10)	☐ Yes ⊠ No	Ecological Integrity (from NHM)
2	☐ Yes ⊠ No	9	☐ Yes ⊠ No	Education Potential
3	☐ Yes ⊠ No	1	Yes 🔀 No	Fish & Aquatic Life
4	☐ Yes ⊠ No	3, 5, 7, 9, 18	☐ Yes ⊠ No	Flood Storage
5	☐ Yes ⊠ No	2, 4, 5, 15	☐ Yes ⊠ No	Groundwater (Recharge Only)
6	☐ Yes ⊠ No	Highest ranked habitat in NH & region plus supporting landscape. Priority habitat block, conservation land	☐ Yes ⊠ No	Noteworthiness (RTE)
7	☐ Yes ⊠ No	5, 6, 7, 8, 9	Yes 🔀 No	Nutrient Trapping/Retention
8	☐ Yes ⊠ No	1, 2, 7, 12	☐ Yes ⊠ No	Production Export
9	☐ Yes ⊠ No	6, 9, 12	☐ Yes ⊠ No	Scenic Quality
10	☐ Yes ⊠ No	2 (road salt), 4, 7, 9	☐ Yes ⊠ No	Sediment Trapping
11	☐ Yes ⊠ No	N/A	Yes 🔀 No	Shoreline Anchoring
12	Yes	2, 8, 13, 17	Yes 🔀 No	Uniqueness/Heritage
13	☐ Yes ⊠ No	10, 12	☐ Yes ⊠ No	Wetland-Based Recreation
14	☐ Yes ⊠ No	3, 7, 8, 13, 19	☐ Yes ⊠ No	Wetland-Dependent Wildlife

Irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

SECTION 5 - VERNAL POOL SUMMARY (Env-Wt 311.10)

Delineations of vernal pools shall be based on the characteristics listed in the definition of "vernal pool" in Env-Wt 104.44. To assist in the delineation, individuals may use either of the following references:

- *Identifying and Documenting Vernal Pools in New Hampshire 3rd Ed.*, 2016, published by the New Hampshire Fish and Game Department; or
- The USACE *Vernal Pool Assessment* draft guidance dated 9-10-2013 and form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

All vernal pool ID numbers are to be displayed and located on the wetland delineation of the subject property.

"Important Notes" are to include documented reproductive and wildlife values, landscape context, and relationship to other vernal pools/wetlands.

Note: For projects seeking federal approval from the USACE, please attach a completed copy of The USACE "Vernal Pool Assessment" form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

VERNAL POOL ID NUMBER	DATE(S) OBSERVED	PRIMARY INDICATORS PRESENT (LIST)	SECONDAR INDICATOR PRESENT (LIS	S	LENGTH OF HYDROPERIOD	IMPORTANT NOTES
1	N/A	N/A	N/A		N/A	No vernal pools associated with this wetland.
2						
3						
4						
5						
SECTION 6 - STREAM RESOURCES SUMMARY						
DESCRIPTION OF STREAM: N/A			STREAM TYPE (ROSGEN): N/A			
HAVE FISHERIES BEEN DOCUMENTED?		DOES THE STREAM SYSTEM APPEAR STABLE?				
OTHER KEY ON-SITE FUNCTIONS OF NOTE: N/A						
The following table can be used to compile data on stream resources. "Important Notes" are to include characteristics the evaluator used to determine principal function and value of each stream. The functions and values reference number are defined in Section 4.						

FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	Yes	N/A	Yes No	No streams associated with this wetland.
2	Yes No		Yes No	
3	Yes No		Yes No	
4	Yes No		Yes No	
5	Yes No		Yes No	
6	Yes No		Yes No	
7	Yes No		Yes No	
8	Yes No		Yes No	
9	Yes No		Yes No	
10	Yes		Yes No	
11	Yes No		Yes No	
12	Yes		Yes No	
13	Yes No		Yes No	
14	Yes No		Yes No	
SECTION 7 - ATTACHMENTS (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)				
Wildlife and vegetation diversity/abundance list.				
Photograph of wetland.				
Wetland delineation plans showing wetlands, vernal pools, and streams in relation to the impact area and				
surrounding landscape. Wetland IDs, vernal pool IDs, and stream IDs must be indicated on the plans.				
For projects in tidal areas only: additional information required by Env-Wt 603.03/603.04. Please refer to the <u>Coastal Area Worksheet (NHDES-W-06-079)</u> for more information.				



WETLANDS FUNCTIONAL ASSESSMENT WORKSHEET Water Division/Land Resource Management Wetlands Bureau Check the Status of your Application



RSA/Rule: RSA 482-A / Env-Wt 311.03(b)(10); Env-Wt 311.10

APPLICANT LAST NAME, FIRST NAME, M.I.: Portsmouth Regional Hospital c/o Matthew Larkin

As required by Env-Wt 311.03(b)(10), an application for a standard permit for minor and major projects must include a functional assessment of all wetlands on the project site as specified in Env-Wt 311.10. This worksheet will help you compile data for the functional assessment needed to meet federal (US Army Corps of Engineers (USACE); if applicable) and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the <u>Coastal Area</u> <u>Worksheet (NHDES-W-06-079)</u> for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the <u>Avoidance and Minimization Written Narrative (NHDES-W-06-089)</u> and the <u>Avoidance and Minimization</u> <u>Checklist (NHDES-W-06-050)</u> to address Env-Wt 313.03 (Avoidance and Minimization). If more than one wetland/ stream resource is identified, multiple worksheets can be attached to the application. All wetland, vernal pools, and stream identification (ID) numbers are to be displayed and located on the wetlands delineation of the subject property.

SECTION 1 - LOCATION (USACE HIGHWAY METHODOLOGY)

ADJACENT LAND USE: Forested undeveloped, paved roadway (Borthwick Avenue), commercial, electric substation

CONTIGUOUS UNDEVELOPED BUFFER ZONE PRESENT? Yes X No

DISTANCE TO NEAREST ROADWAY OR OTHER DEVELOPMENT (in feet): Approximately 15

SECTION 2 - DELINEATION (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)

CERTIFIED WETLAND SCIENTIST (if in a non-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who prepared this assessment: Jeremy Degler (NH CWS #301)

DATE(S) OF SITE VISIT(S): 9/17/2021, 11/22/2021	DELINEATION PER ENV-WT 406 COMPLETED? Xes No			
CONFIRM THAT THE EVALUATION IS BASED ON:				
⊠ Office and				
Field examination.				
METHOD USED FOR FUNCTIONAL ASSESSMENT (check one and fill in blank if "other"):				
USACE Highway Methodology.				
Other scientifically supported method (enter name/ title): NH Method (for Ecological Integrity)				

SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)				
WETLAND ID: Wetland 5	LOCATION: (LAT/ LONG) 43.066164/-70.785497			
WETLAND AREA: Approximately 9,200 square feet (SF)	DOMINANT WETLAND SYSTEMS PRESENT: Scrub-shrub			
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND?	COWARDIN CLASS: PSS1E			
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM? Yes No if not, where does the wetland lie in the drainage basin?	IS THE WETLAND PART OF: A wildlife corridor or A habitat island? IS THE WETLAND HUMAN-MADE? Yes No			
IS THE WETLAND IN A 100-YEAR FLOODPLAIN?	ARE VERNAL POOLS PRESENT? Yes No (If yes, complete the Vernal Pool Table)			
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER SYSTEM? Yes No	ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTREAM/ DOWNGRADIENT? 🔲 Yes 🔀 No			
PROPOSED WETLAND IMPACT TYPE: Parking lot	PROPOSED WETLAND IMPACT AREA: Approx. 7,320 SF			
SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE H	IIGHWAY METHODOLOGY; Env-Wt 311.10)			
 The following table can be used to compile data on wetlands functions and values. The reference numbers indicated in the "Functions/ Values" column refer to the following functions and values: Ecological Integrity (from RSA 482-A:2, XI) Educational Potential (from USACE Highway Methodology: Educational/Scientific Value) Fish & Aquatic Life Habitat (from USACE Highway Methodology: Fish & Shellfish Habitat) Flood Storage (from USACE Highway Methodology: Floodflow Alteration) Groundwater Recharge (from USACE Highway Methodology: Groundwater Recharge/Discharge) Noteworthiness (from USACE Highway Methodology: Threatened or Endangered Species Habitat) Nutrient Trapping/Retention & Transformation (from USACE Highway Methodology) Scenic Quality (from USACE Highway Methodology: Visual Quality/Aesthetics) Sediment Trapping (from USACE Highway Methodology: Sediment /Toxicant Retention) Shoreline Anchoring (from USACE Highway Methodology: Sediment/Shoreline Stabilization) Uniqueness/Heritage (from USACE Highway Methodology: Sediment/Shoreline Stabilization) Wetland-based Recreation (from USACE Highway Methodology) 				
First, determine if a wetland is suitable for a particular function and value ("Suitability" column) and indicate the rationale behind your determination ("Rationale" column). Please use the rationale reference numbers listed in Appendix A of USACE <i>The Highway Methodology Workbook Supplement</i> . Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in <i>The Highway Methodology Workbook Supplement</i> , "functions and values can be principal if they are an important physical component of a wetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective". "Important Notes" are to include characteristics the evaluator used to determine the principal function and value of the wetland.				

FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE (Reference #)	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	☐ Yes ⊠ No	Average Ecological Integrity Score = 3.6 (1, 1, 10, 1, 1, 1, 5, 1, 5, 10)	Yes 🔀 No	Ecological Integrity (from NHM)
2	☐ Yes ⊠ No	9	Yes 🔀 No	Education Potential
3	☐ Yes ⊠ No	1	Yes 🔀 No	Fish & Aquatic Life
4	🛛 Yes 🔲 No	3, 5, 6, 7, 8, 9, 18	Yes 🔀 No	Flood Storage
5	☐ Yes ⊠ No	2, 5, 15	☐ Yes ⊠ No	Groundwater (Recharge Only)
6	☐ Yes ⊠ No	Highest ranked habitat in NH & region plus supporting landscape. Priority habitat block, conservation land	Yes 🔀 No	Noteworthiness (RTE)
7	☐ Yes ⊠ No	5, 6, 7, 8, 9	Yes 🔀 No	Nutrient Trapping/Retention
8	☐ Yes ⊠ No	2, 7	☐ Yes ⊠ No	Production Export
9	☐ Yes ⊠ No	6, 9	☐ Yes ⊠ No	Scenic Quality
10	☐ Yes ⊠ No	2 (road salt), 4, 7, 9	☐ Yes ⊠ No	Sediment Trapping
11	☐ Yes ⊠ No	N/A	Yes 🔀 No	Shoreline Anchoring
12	☐ Yes ⊠ No	2, 8, 13, 17	Yes 🔀 No	Uniqueness/Heritage
13	☐ Yes ⊠ No	10, 12	Yes 🔀 No	Wetland-Based Recreation
14	☐ Yes ⊠ No	3, 7, 8, 13, 19	☐ Yes ⊠ No	Wetland-Dependent Wildlife

Irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

SECTION 5 - VERNAL POOL SUMMARY (Env-Wt 311.10)

Delineations of vernal pools shall be based on the characteristics listed in the definition of "vernal pool" in Env-Wt 104.44. To assist in the delineation, individuals may use either of the following references:

- *Identifying and Documenting Vernal Pools in New Hampshire 3rd Ed.*, 2016, published by the New Hampshire Fish and Game Department; or
- The USACE *Vernal Pool Assessment* draft guidance dated 9-10-2013 and form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

All vernal pool ID numbers are to be displayed and located on the wetland delineation of the subject property.

"Important Notes" are to include documented reproductive and wildlife values, landscape context, and relationship to other vernal pools/wetlands.

Note: For projects seeking federal approval from the USACE, please attach a completed copy of The USACE "Vernal Pool Assessment" form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

VERNAL POOL ID NUMBER	DATE(S) OBSERVED	PRIMARY INDICATORS PRESENT (LIST)	INDICATOR	SECONDARY INDICATORS PRESENT (LIST)		IMPORTANT NOTES		
1	N/A	N/A	N/A		N/A	No vernal pools associated with this wetland.		
2								
3								
4			-					
5								
SECTION	5 - STREAM RE	SOURCES SUMMAR	Y					
DESCRIPT	ON OF STREAI	M: N/A		STREAM TYPE (ROSGEN): N/A				
HAVE FISH		OCUMENTED?		DOES THE STREAM SYSTEM APPEAR STABLE?				
OTHER KE	Y ON-SITE FUN	ICTIONS OF NOTE: N	/A					
the evalua		etermine principal fui				otes" are to include characteristics nctions and values reference		

FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	Yes	N/A	Yes No	No streams associated with this wetland.
2	Yes No		Yes No	
3	Yes No		Yes No	
4	Yes No		Yes No	
5	Yes No		Yes No	
6	Yes No		Yes No	
7	Yes No		Yes No	
8	Yes No		Yes No	
9	Yes No		Yes No	
10	Yes		Yes No	
11	Yes		Yes No	
12	Yes		Yes No	
13	Yes No		Yes No	
14	Yes No		Yes No	
SECTION 7 -	ATTACHMEN	TS (USACE HIGHWAY METHODOLOG	Y; Env-Wt 311.10)	
🛛 Wildlife a	and vegetation	n diversity/abundance list.		
\equiv	ph of wetland			
		lans showing wetlands, vernal pools, a		
_		e. Wetland IDs, vernal pool IDs, and st		
		eas only: additional information requi <u>et (NHDES-W-06-079)</u> for more inforr		3/603.04. Please refer to the

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Portsmouth Regional Hospital Sat	tellite Parking	City/County: Portsmouth / Rockingham	Sampling Date: 09/17/2021
Applicant/Owner: Portsmouth Regional Hos	pital c/o Matthew Larkin	State: NH	Sampling Point: W2
Investigator(s): Jeremy Degler, Leonard Lord (b	ooth CWS)	Section, Township, Range: N/A	
Landform (hillside, terrace, etc.): Basin	Local	relief (concave, convex, none): Concave	Slope %: 0-10
Subregion (LRR or MLRA): LRR R, MLRA 144	A Lat: 43.067359	Long: _70.783336	Datum: NAD 83
Soil Map Unit Name: Chatfield-Hollis-Canton c	omplex, 8 to 15 percent slop	bes, rocky (140C) NWI classification:	N/A
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes X No (If no, e	explain in Remarks.)
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrolog	gy <u>N</u> significantly distur	bed? Are "Normal Circumstances" pres	ent? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrolog	gy <u>N</u> naturally problema	atic? (If needed, explain any answers ir	ו Remarks.)
SUMMARY OF FINDINGS – Attach si	te map showing sam	pling point locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Y	es X No	Is the Sampled Area	
Hydric Soil Present? Y	es X No	within a Wetland? Yes X	No
Wetland Hydrology Present? Y	es <u>X</u> No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here This is a small, hydrologically isolated wetland l	,	ng. Data point was taken between wetland flag	1s 2A-1 and 2A-5
This is a small, hydrologically isolated wetland i		ng. Data point was taken between wetland hag	jo 27 (1 and 27 (0.

HYDROLOGY

Wetland Hydrology Indicat	ors:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum	of one is requi	red; check all	that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		X Water-	-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)		Aquati	c Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)		Marl D	eposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)		Hydrog	gen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)		Oxidize	ed Rhizospheres on Living Re	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Preser	nce of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)					Geomorphic Position (D2)
Iron Deposits (B5)		Shallow Aquitard (D3)			
Inundation Visible on Ae	rial Imagery (B	7) Other ((Explain in Remarks)		X Microtopographic Relief (D4)
Sparsely Vegetated Con	icave Surface (B8)			X FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No X	Depth (inches):		
Water Table Present?	Yes	No X	Depth (inches):		
Saturation Present?	Yes X	No	Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No	Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No
(includes capillary fringe)			Depth (inches): 0 aerial photos, previous inspe		
(includes capillary fringe)			· · · /		
(includes capillary fringe)			· · · /		
(includes capillary fringe)			· · · /		
(includes capillary fringe) Describe Recorded Data (str	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		
(includes capillary fringe) Describe Recorded Data (str Remarks:	eam gauge, m	onitoring well,	aerial photos, previous inspe		

VEGETATION – Use scientific names of plants.

Sampling Point: W2

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
I.				Number of Dominant Species		
2				That Are OBL, FACW, or FAC:	9	(A)
3				Total Number of Dominant		
ł				Species Across All Strata:	11	(B)
5 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 81	1.8%	(A/E
7				Prevalence Index worksheet:		-
		=Total Cover		Total % Cover of: Mult	iply by:	
Sapling/Shrub Stratum (Plot size:)			OBL species <u>15</u> x 1 =	15	
. Rosa multiflora	25	Yes	FACU	FACW species 40 x 2 =	80	
. Celastrus orbiculatus	15	Yes	UPL	FAC species x 3 =	135	
3				FACU species x 4 =	100	_
l				UPL species <u>15</u> x 5 =	75	
j				Column Totals: 140 (A)	405	(E
)				Prevalence Index = B/A =	2.89	
				Hydrophytic Vegetation Indicators:		
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vege	etation	
lerb Stratum (Plot size:)				X 2 - Dominance Test is >50%		
. Lythrum salicaria	10	Yes	OBL	X 3 - Prevalence Index is $≤3.0^{1}$		
. Solidago rugosa	10	Yes	FAC	4 - Morphological Adaptations ¹ (Pro		porti
. Toxicodendron radicans	10	Yes	FAC	data in Remarks or on a separate	e sheet)	
. Euthamia graminifolia	10	Yes	FAC	Problematic Hydrophytic Vegetation	n ¹ (Explai	in)
5. Symphyotrichum novae-angliae	10	Yes	FACW	¹ Indicators of hydric soil and wetland hy	drology r	nust
Bidens spp.	10	Yes	FACW	be present, unless disturbed or problem		
. Equisetum arvense	10	Yes	FAC	Definitions of Vegetation Strata:		
Onoclea sensibilis	10	Yes	FACW	Tree – Woody plants 3 in. (7.6 cm) or m	nore in	
. Impatiens capensis	10	Yes	FACW	diameter at breast height (DBH), regard	lless of h	eigh
0. Juncus effusus	5	No	OBL	Sapling/shrub – Woody plants less tha	n 3 in. D	BH
1. Ranunculus repens	5	No	FAC	and greater than or equal to 3.28 ft (1 m		
2				Herb – All herbaceous (non-woody) pla		rdle
	100	=Total Cover		of size, and woody plants less than 3.28	3 ft tall.	
Noody Vine Stratum (Plot size:)			Woody vines – All woody vines greater	r than 3.2	28 ft
				height.		
<u></u>				Hydrophytic		
3				Vegetation		
1.				Present? Yes X No		
+.		=Total Cover				

Depth (inches)	Matrix			x Featur	es		firm the absence	,
(incries)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 2/1	100					Muck	
10-18	5YR 5/1	90	7.5YR 7/8	10	С	M		Prominent redox concentrations
10-10	511(5/1	- 90	7.511(7/0	10				Fromment redox concentrations
Type: C=Co	ncentration, D=Dep	letion RM	=Reduced Matrix	MS=Mas	ked Sand	Grains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Ir								for Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo	ow Surfa	ce (S8) (I	LRR R,		/luck (A10) (LRR K, L, MLRA 149B)
X Histic Epi	ipedon (A2)		MLRA 149E	8)			Coast	Prairie Redox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Sur	face (S9)	(LRR R	, MLRA 14	9B) 5 cm N	Nucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen	n Sulfide (A4)		High Chroma	Sands (S	11) (LRF	R K, L)	Polyva	lue Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LRI	R K, L)	Thin D	ark Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (F2)		Iron-M	anganese Masses (F12) (LRR K, L, R)
Thick Dar	rk Surface (A12)		Depleted Matr	ix (F3)			Piedm	ont Floodplain Soils (F19) (MLRA 149
Sandy Mu	ucky Mineral (S1)		Redox Dark S	urface (F	6)		Mesic	Spodic (TA6) (MLRA 144A, 145, 149B
Sandy Gl	eyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pa	arent Material (F21)
Sandy Re	edox (S5)		Redox Depres	sions (F8	3)		Very S	hallow Dark Surface (F22)
Stripped I	Matrix (S6)		Marl (F10) (LF	RR K, L)			Other	(Explain in Remarks)
Dark Surf	face (S7)							
3								
	hydrophytic vegetat		etland hydrology m	ust be pr	esent, ur	nless distur	bed or problematic).
Type:	ayer (if observed):							
··· -	choc):						Hydric Soil Pres	ant? Vas X No
	ches):						Hyunc Son Fles	ent? Yes X No
Remarks:								

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Portsmouth Regional Hospital Satellite Parking	City/County: Portsmouth / Rockingham Sampling Date: 09/17/2021
Applicant/Owner: Portsmouth Regional Hospital c/o Matthew Larkin	State: NH Sampling Point: W5
Investigator(s): Jeremy Degler, Leonard Lord (both CWS)	Section, Township, Range: N/A
Landform (hillside, terrace, etc.): Basin Local	relief (concave, convex, none): <u>Concave</u> Slope %: <u>0-10</u>
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.066164	Long: -70.785497 Datum: NAD 83
Soil Map Unit Name: Chatfield-Hollis-Canton complex, 8 to 15 percent slo	pes, rocky (140C) NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> significantly distur	rbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problem	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) This is a hydrologically isolated wetland located within an electric utility righ between wetland flags 5A-9 and 5A-18.	nt-of-way, near the intersection of two roadways. Data point was taken
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)

X Surface Water (A1)	X Water-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livi	ng Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilleo	Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imager	ry (B7) Other (Explain in Remarks)		X Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfa			X FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes X	No Depth (inches): 1		
Water Table Present? Yes	No X Depth (inches):	—	
Saturation Present? Yes X		Wetlan	d Hydrology Present? Yes X No
(includes capillary fringe)		_	
	e, monitoring well, aerial photos, previous	inspections), if a	vailable:
		. ,.	
Remarks:			
Multiple wetland hydrology indicators w	vere observed during the site investigation.		

VEGETATION – Use scientific names of plants.

Sampling Point:

W5

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)		•		OBL species 35 x 1 = 35
1. Cornus sericea	45	Yes	FACW	FACW species 45 x 2 = 90
2. Rosa multiflora	10	No	FACU	FAC species $30 \times 3 = 90$
3.				FACU species 10 x 4 = 40
4.		- <u> </u>		UPL species $0 \times 5 = 0$
5.		·		Column Totals: 120 (A) 255 (B)
6.		·		Prevalence Index = $B/A = 2.13$
7.		·		Hydrophytic Vegetation Indicators:
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:)		•		X 2 - Dominance Test is >50%
1. Lythrum salicaria	35	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
2. Solidago rugosa	30	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
3.		·		data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
^{4.}				
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				_
o 9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.		·		
		·		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11		·		
	65	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.)				Woody vines – All woody vines greater than 3.28 ft in height.
2				
3		. <u> </u>		Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa Hydrophytic vegetation is dominant and prevalent.	rate sheet.)			

Depth	Matrix		Redo	x Featur	es		irm the absence of i	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	100					Muck	
12-21	5YR 5/1	90	2.5Y 4/2	10	С	M		Prominent redox concentrations
12-21	511(5/1		2.01 7/2					
		·						
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, I	MS=Mas	ked Sano	d Grains.		=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:							r Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (LRR R,		k (A10) (LRR K, L, MLRA 149B)
X Histic Ep			MLRA 149E	'				iirie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Sur		-			ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma					Below Surface (S8) (LRR K, L)
	Layers (A5) Below Dark Surface	- (A11)	Loamy Mucky			κ κ, L)		Surface (S9) (LRR K, L)
	rk Surface (A12)	e (ATT)	Loamy Gleyed Depleted Matr		rz)			ganese Masses (F12) (LRR K, L, R) Floodplain Soils (F19) (MLRA 149E
	ucky Mineral (S1)		Redox Dark S		6)			odic (TA6) (MLRA 144A, 145, 149B
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
	edox (S5)		Redox Depres					low Dark Surface (F22)
	Matrix (S6)		 Marl (F10) (LF		,			plain in Remarks)
Dark Sur	face (S7)			-				
³ Indicators of	hydrophytic vegetat	tion and w	etland hydrology m	ust be pr	esent, u	nless disturb	ed or problematic.	
Restrictive L	ayer (if observed):							
Туре:								
Donth (in	iches):						Hydric Soil Present	? Yes <u>X</u> No



APPENDIX B



US Army Corps of Engineers ® New England District

New Hampshire General Permits (GPs) Appendix B - Corps Secondary Impacts Checklist (for inland wetland/waterway fill projects in New Hampshire)

Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
 All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.

3. See GC 5, regarding single and complete projects.

4. Contact the Corps at (978) 318-8832 with any questions.

4. Contact the Corps at (576) 510 0052 with any questions.					
1. Impaired Waters	Yes	No			
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See_					
http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm	X				
to determine if there is an impaired water in the vicinity of your work area.*					
2. Wetlands	Yes	No			
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?		X			
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at_ <u>https://www2.des.state.nh.us/nhb_datacheck/</u> . The book <u>Natural Community Systems of New</u> <u>Hampshire also contains specific information about the natural communities found in NH</u> .		X			
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?					
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)	N/	Ά			
2.5 The overall project site is more than 40 acres?		X			
2.6 What is the area of the previously filled wetlands?	N/	Α			
2.7 What is the area of the proposed fill in wetlands?	8,7	'20 sf			
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	2.5	%			
3. Wildlife	Yes	No			
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: <u>https://www2.des.state.nh.us/nhb_datacheck/</u> USFWS IPAC website: <u>https://ecos.fws.gov/ipac/location/index</u>		x			

 3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: PDF: <u>https://wildlife.state.nh.us/wildlife/wap-high-rank.html</u>. Data Mapper: <u>www.granit.unh.edu</u>. GIS: <u>www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</u>. 		x
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		x
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?	x	
3.5 Are stream crossings designed in accordance with the GC 21?	N	Α
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?	N/	Ά
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form (<u>www.nh.gov/nhdhr/review</u>) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	x	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement. ** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.



United States Department of the Interior

FISH AND WILDLIFE SERVICE New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104 http://www.fws.gov/newengland



May 25, 2022

In Reply Refer To: Project Code: 2022-0047365 Project Name: PRH Satellite Parking Lot

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the **"New England Field Office Endangered Species Project Review and Consultation"** website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

NOTE Please <u>do not</u> use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat Update - Additionally, please note that on March 23, 2022, the Service published a proposal to reclassify the northern long-eared bat (NLEB) as endangered under the Endangered Species Act. The U.S. District Court for the District of Columbia has ordered the Service to complete a new final listing determination for the NLEB by November 2022 (Case 1:15-cv-00477, March 1, 2021). The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across the continent. The proposed reclassification, if finalized, would remove the current 4(d) rule for the NLEB, as these rules may be applied only to threatened species. Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective (anticipated to occur by December 30, 2022). If your project may result in incidental take of NLEB after the new listing goes into effect this will first need to addressed in an updated consultation that includes an Incidental Take Statement. If your project may require re-initiation of consultation, please contact our office for additional guidance.

Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300

Concord, NH 03301-5094 (603) 223-2541

Project Summary

2022-0047365
None
PRH Satellite Parking Lot
New Constr - Above Ground
Proposed approximately 500 parking space parking lot to support the
adjacent Hospital

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@43.06649330000005,-70.78435220450498,14z</u>



Counties: Rockingham County, New Hampshire

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9045</u>	Threatened
Insects NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency:Tighe & Bond Inc.Name:Alexander SellarAddress:177 Corporate DriveCity:PortsmouthState:NHZip:03801Emailasellar@tighebond.comPhone:6034338818



United States Department of the Interior

FISH AND WILDLIFE SERVICE New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104 http://www.fws.gov/newengland



May 25, 2022

In Reply Refer To: Project code: 2022-0047365 Project Name: PRH Satellite Parking Lot

Subject: Consistency letter for the 'PRH Satellite Parking Lot' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Alexander Sellar:

The U.S. Fish and Wildlife Service (Service) received on May 25, 2022 your effects determination for the 'PRH Satellite Parking Lot' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"^[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

Monarch Butterfly Danaus plexippus Candidate

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

PRH Satellite Parking Lot

2. Description

The following description was provided for the project 'PRH Satellite Parking Lot':

Proposed approximately 500 parking space parking lot to support the adjacent Hospital

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/</u> <u>maps/@43.066493300000005,-70.78435220450498,14z</u>



Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

No

2. Will your activity purposefully Take northern long-eared bats?

No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

Automatically answered
No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/media/nleb-roost-tree-and-hibernacula-state-specific-data-links-0.

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

6. Will the action involve Tree Removal?

Yes

- 7. Will the action only remove hazardous trees for the protection of human life or property? *No*
- 8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

3.6

2. If known, estimated acres of forest conversion from April 1 to October 31

3. If known, estimated acres of forest conversion from June 1 to July 31

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

IPaC User Contact Information

Agency:Tighe & Bond Inc.Name:Alexander SellarAddress:177 Corporate DriveCity:PortsmouthState:NHZip:03801Emailasellar@tighebond.comPhone:6034338818

To: Alex Sellar, Tighe and Bond Engineers 177 Corporate Drive

Portsmouth, NH 03801

- **From:** NH Natural Heritage Bureau
- **Date:** 5/4/2022 (valid until 5/4/2023)
- **Re:** Review by NH Natural Heritage Bureau of request submitted 4/27/2022
- **Permits:** NHDES Alteration of Terrain Permit, NHDES Wetland Standard Dredge & Fill Minor

NHB ID:	NHB22-1544	Applicant:	Alex Sellar
Location:	Portsmouth		
	Borthwick Ave		
Project			
Description:	This project includes the construction of a satellite parking lot to support the adjacent Portsmouth Regional Hospital. The parking lot will create approximately 500 parking spaces and will include additional improvements such as, landscaping, site lighting, EV charging, and stormwater management.		

The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 4/27/2022 2:05:34 PM, and cannot be used for any other project.

Based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

MAP OF PROJECT BOUNDARIES FOR: NHB22-1544

NHB22-1544



Department of Natural and Cultural Resources Division of Forests and Lands (603)271-2214 fax: 271-6488 DNCR/NHB 172 Pembroke Rd. Concord, NH 03301

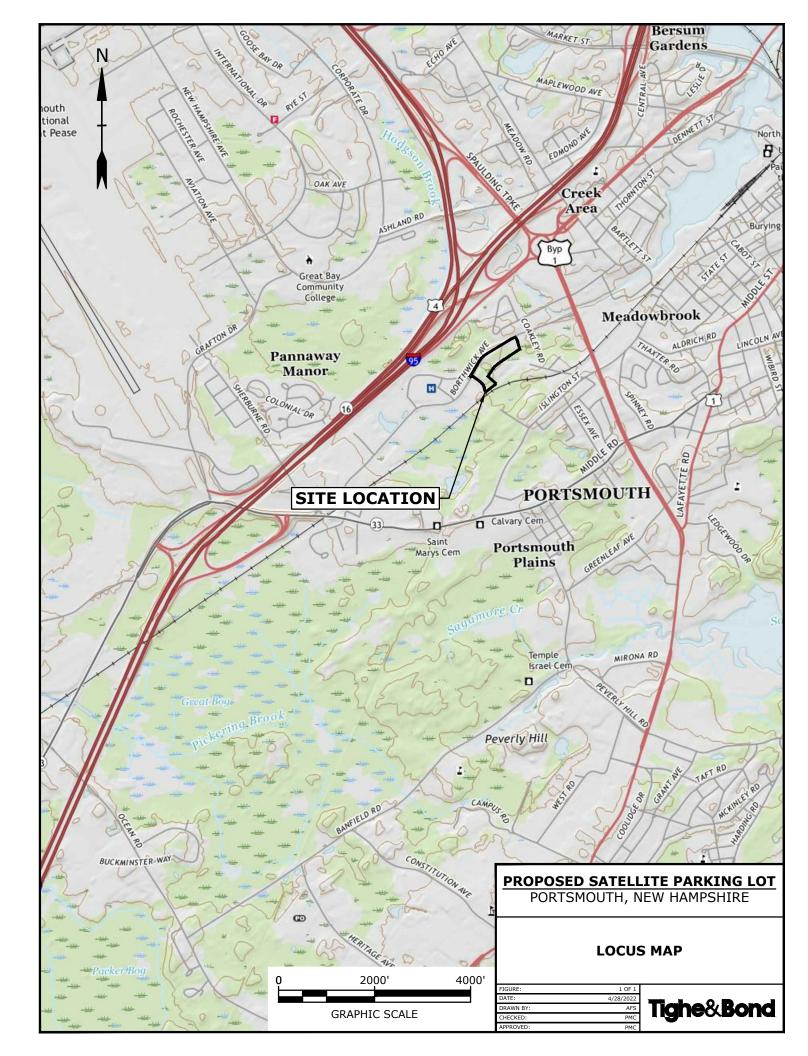
Please mail the completed form and required material to:	DHR Use Only				
New Hampshire Division of Historical Resources	R&C# 3900				
State Historic Preservation Office Attention: Review & Compliance	Log In Date 5,20,22				
19 Pillsbury Street, Concord, NH 03301-3570 RECEIVED MAY 2 6 2022	Response Date 6,1,23				
	Sent Date 6, 2, 22				
Request for Project Review by the New Hampshire Division of Historical Resources					
☐ This is a new submittal ☐ This is additional information relating to DHR Review & Compliance (R&C) #:					
GENERAL PROJECT INFORMATION					
Project Title Portsmouth Regional Hospital Satellite Parking Lot					
Project Location Borthwick Avenue					
City/Town Portsmouth Tax Map 234 Lot # 7-4A					
NH State Plane - Feet Geographic Coordinates: Easting 1219781 Northing	207578.75				
(See RPR Instructions and R&C FAQs for guidance.)					
Lead Federal Agency and Contact <i>(if applicable)</i> N/a <i>(Agency providing funds, licenses, or permits)</i> Permit Type and Permit or Job Reference #					
State Agency and Contact (if applicable) NHDES Wetlands Bureau					
Permit Type and Permit or Job Reference # standard dredge/fill					
APPLICANT INFORMATION					
Applicant Name Portsmouth Regional Hospital c/o Matthew Larkin					
Mailing Address 333 Borthwick Avenue Phone Number 603 436 5110					
City Portsmouth State NH Zip 03801 Email Matthew.Larkin@hcahealthcare.com					
CONTACT PERSON TO RECEIVE RESPONSE					
Name/Company Alex Sellar					
Mailing Address 177 Corporate Drive Phone Number 6034338818					
City Portsmouth State NH Zip 03801 Email asellar@tighebond.com					

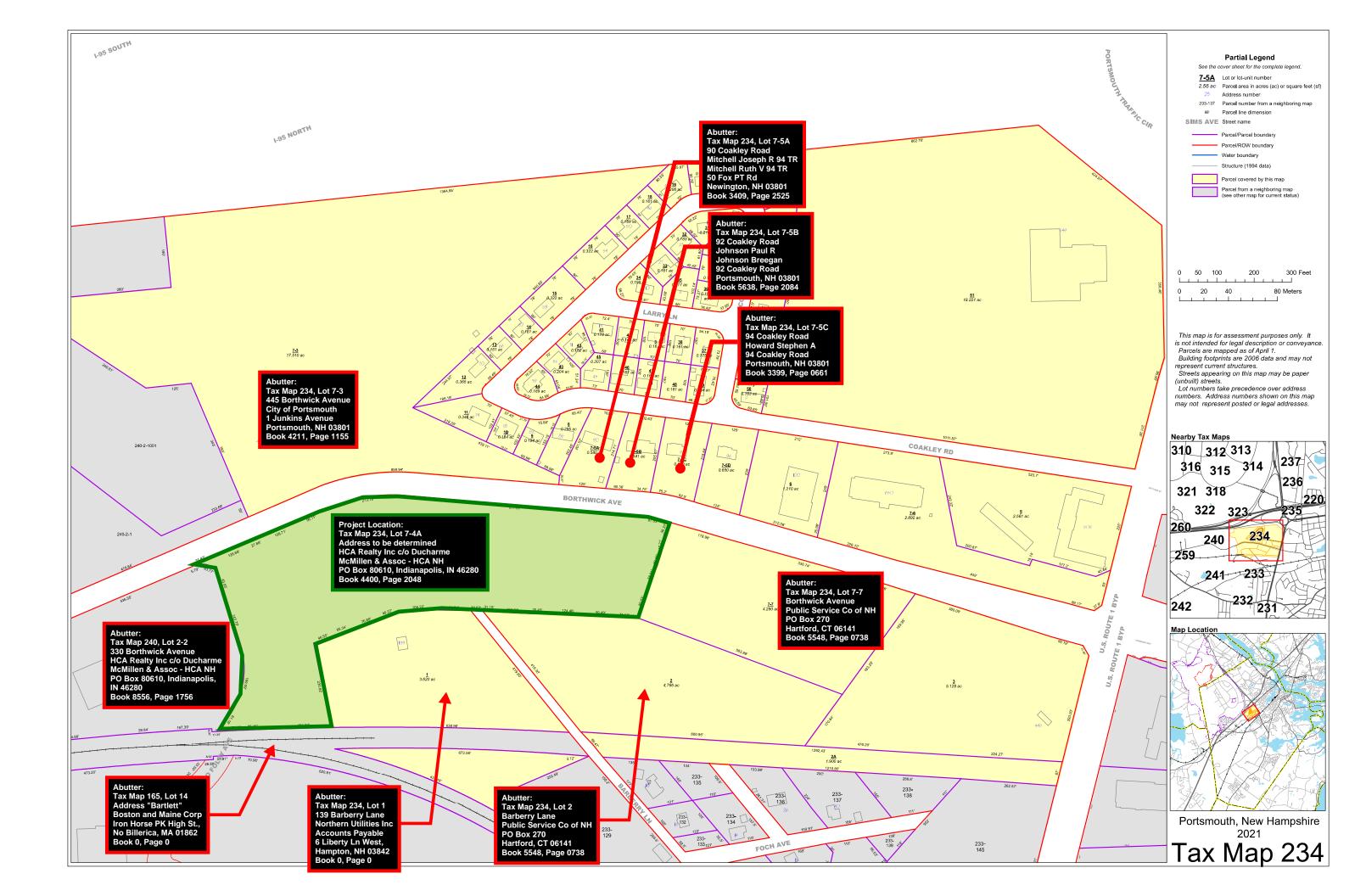
This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Please include a self-addressed stamped envelope. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, website R&C please visit our at: www.nh.gov/nhdhr/review or contact the Specialist at marika.s.labash@dncr.nh.gov or 603.271.3558.

	PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION
Project	Boundaries and Description
	Attach the Project Mapping using EMMIT or relevant portion of a 7.5' USGS Map. (See RPRInstructions and R&C FAQs for guidance.)Attach a detailed narrative description of the proposed project.Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.Attach photos of the project area (overview of project location and area adjacent to project location, andspecific areas of proposed impacts and disturbances.) (Informative photo captions are requested.)A DHR records search must be conducted to identify properties within or adjacent to the project area.Provide records search results via EMMIT or in Table 1. (Blank table forms are available on the DHRwebsite.) Please note, using EMMIT Guest View for an RPR records search does not provide thenecessary information needed for DHR review.EMMIT or in-house records search conducted on
Arci	<u>hitecture</u>
Are	there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? 🖾 Yes 🗌 No If no, skip to Archaeology section. If yes, submit all of the following information:
App	proximate age(s): unknown
	Photographs of <i>each</i> resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.) If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)
Arc	haeology
Doe	es the proposed undertaking involve ground-disturbing activity? 🛛 Yes 🗌 No If yes, submit all of the following information:
XX	Description of current and previous land use and disturbances. Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)
	Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.
D	HR Comment/Finding Recommendation This Space for Division of Historical Resources Use Only
reviev	sufficient information to initiate review. Additional information is needed in order to complete w. o Potential to cause Effects No Historic Properties Affected No Adverse Effect Adverse Effect ments:
Histo	orized Signature: Mathie Miller, DSHB Date: <u>6/1/22</u>
Auth	orized Signature: / / m / m / m / m / m / Date: 0/1/00



APPENDIX C





Portsmouth Regional Hospital Proposed Parking Expansion Project - Wetland Delineation Borthwick Avenue, Portsmouth, New Hampshire

To: Patrick Crimmins

FROM: Jeremy Degler, CWB, CWS, PWS

DATE: October 14, 2021

On September 17, 2021, Tighe & Bond conducted wetland delineations within 100± feet of Lot 7-4A (approximately 9.1 acres, Tax Map 234) located directly south of Borthwick Avenue and northeast of Portsmouth Regional Hospital in Portsmouth, NH. The hospital is proposing to construct a new satellite parking lot within this parcel (up to 480 spaces), which potentially includes a bus shelter, site lighting, security cameras, and stormwater management.

Methods

Wetland delineations were completed in accordance with the procedures outlined in the U.S. Army Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (January 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (January 2012). Wetland classifications were made following Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al., 1979). Sequentially numbered plastic flagging was used to demarcate wetland boundaries for a surveyor to locate at a later date.

Jurisdictional Area Descriptions

A total of five (5) wetland areas were delineated within $100\pm$ feet of Lot 7-4A (Photographs 1-8, attached). Below is a description of each jurisdictional area.

Wetland Area 1

Wetland Area 1 is the large system (Photographs No. 1-4) primarily located within and to the north of the electric utility right-of-way which cuts through the subject property before changing direction and running along the southern property boundary line. The wetland boundary was marked in the field with wetland flags 1A-1 to 1A-28 and 1B-1 to 1B-16. The eastern portion of this wetland system extends north to Borthwick Avenue. This area contains poorly drained marine sediment soils with a histic epipedon (10YR 2/1, 3/1) situated over a depleted matrix (5YR 5/1) with redoximorphic features (7.5YR 7/8). The wetland hydrology indicators observed at the time of the site visit were standing surface water, a high water table, soil saturation, iron deposits, water-stained leaves, oxidized rhizospheres on living roots, drainage patterns, and microtopographic relief. The hydrophytic plant community was dominated by American elm (Ulmus americana), red maple (Acer rubrum), white ash (Fraxinus americana), honeysuckle (Lonicera spp.), sensitive fern (Onoclea sensibilis), poison ivy (Toxicodendron radicans), purple loosestrife (Lythrum salicaria), arrowleaf tearthumb (Persicaria sagittata), winterberry (Ilex verticillata), highbush blueberry (Vaccinium corymbosum), red osier dogwood (Cornus sericea), green bulrush (Scirpus atrovirens), white turtlehead (Chelone glabra), New England aster (Symphyotrichum novae-angliae), various sedges (*Carex* spp.), and soft rush (*Juncus effusus*). This wetland is classified as palustrine emergent, persistent, and seasonally flooded/saturated (PEM1E) with scattered areas better classified as palustrine scrub-shrub, broad-leaved deciduous, and seasonally flooded/ saturated (PSS1E), and the northern areas (including flagging series 1B) and edges best classified as palustrine forested, broad-leaved deciduous, and seasonally flooded/saturated (PFO1E).

Wetland Area 2

Wetland Area 2 is hydrologically isolated from and lies north of Wetland 1 and approximately 30 feet to the south of Borthwick Avenue (Photograph No. 5). This wetland is fed from a culvert which flows from the north beneath the roadway. The wetland boundary was marked in the field with wetland flags 2A-1 to 2A-10. This wetland is dominated by the same poorly drained marine sediment soils with a histic epipedon (10YR 2/1, 3/1) situated over a depleted matrix (5YR 5/1) with redoximorphic features (7.5YR 7/8), and the wetland hydrology indicators observed at the time of the site visit included soil saturation, water-stained leaves, and microtopographic relief. The plant community was dominated by multiflora rose (*Rosa multiflora*), poison ivy, purple loosestrife, roughstem goldenrod (*Solidago rugosa*), grass-leaved goldenrod (*Euthamia graminifolia*), New England aster, beggarticks (*Bidens* spp.), horsetail (*Equisetum* sp.), sensitive fern, jewelweed (*Impatiens capensis*), soft rush, creeping buttercup (*Ranunculus repens*), and oriental bittersweet (*Celastrus orbiculatus*). This wetland is classified as palustrine emergent, persistent, and seasonally flooded/saturated (PEM1E).

Wetland Area 3

Wetland Area 3 is manmade and lies between the active and inactive Boston & Maine railroad beds, located south of the fenced Unitil property (Photograph No. 6). The wetland boundary was marked in the field with wetland flags 3A-1 to 3A-7. This area contains poorly drained mucky (hemic, 10YR 2/1) organic soils situated over a gravel/riprap restrictive layer. The wetland hydrology indicators observed at the time of the site visit were deep surface water, a high water table, soil saturation, water marks, iron and drift deposits, water-stained leaves, oxidized rhizospheres on living roots, drainage patterns, geomorphic position, and microtopographic relief. The plant community was dominated by red maple, American elm, flowering dogwood (*Cornus florida*), highbush blueberry, winterberry, honeysuckle, red oak (*Quercus rubra*), Virginia creeper, poison ivy, jewelweed, soft rush, and horsetail. This wetland is classified as palustrine forested, broad-leaved deciduous, and seasonally flooded (PFO1C).

Wetland Area 4

Wetland Area 4 is partially manmade and lies north of the inactive Boston & Maine railroad bed, located southwest of the fenced Unitil property (Photograph No. 7). The wetland boundary was marked in the field with wetland flags 4A-1 to 4A-11. This area contains the same poorly drained mucky (hemic, 10YR 2/1) organic soils as Wetland Area 3, also situated over a gravel/riprap restrictive layer. The wetland hydrology indicators observed at the time of the site visit were deep surface water, a high water table, soil saturation, water marks, iron and drift deposits, water-stained leaves, oxidized rhizospheres on living roots, drainage patterns, geomorphic position, and microtopographic relief. The plant community was dominated by red maple, white ash, red oak, staghorn sumac (*Rhus typhina*), honeysuckle, winterberry, highbush blueberry, witch hazel (*Hamamelis virginiana*), jewelweed, multiflora rose, narrowleaf cattail (*Typha angustifolia*), Virginia creeper, oriental bittersweet, poison ivy, green bulrush, and horsetail. This wetland is classified as palustrine forested, broad-leaved deciduous, and seasonally flooded (PFO1C).

Wetland Area 5

Wetland Area 5 appears to be manmade and is located south of Borthwick Avenue at the intersection of Eileen Dondero Foley Avenue. Wetland 5 is hydrologically isolated from other delineated wetland resource areas (Photograph No. 8). The wetland boundary was marked in the field with wetland flags 5A-1 to 5A-20. This wetland is dominated by the same poorly drained marine sediment soils with a histic epipedon (10YR 3/2) situated over a depleted matrix (5YR 5/1) with redoximorphic features (2.5Y 4/2), and the wetland hydrology indicators observed at the time of the site visit included pockets of standing water, soil saturation, water-stained leaves, and microtopographic relief. The plant community was dominated by multiflora rose, purple loosestrife, roughstem goldenrod and red osier dogwood. This wetland is classified as palustrine scrub/shrub, persistent, and seasonally flooded/saturated (PSS1E).

Conclusions

Five (5) wetland areas were delineated within $100\pm$ feet of the existing stormwater retention pond. These areas are subject to federal, state, and local jurisdiction. According to the City of Portsmouth Zoning Regulations (10.1014.12), all created wetlands (Wetlands 3 and 4) are considered wetlands and would need to be permitted as such.

\\tighebond.com\data\data\projects\P\P0616 Portsmouth Regional Hospital - Portsmouth, NH Retention Pond\005 PRH Parking Expansion\Wetlands\PRH Parking Expansion - Delineation Report - Draft.docx

Tighe&Bond

Client: Portsmouth Regional Hospital

Job Number: P0616-005

Site: Proposed Parking Expansion Project, Borthwick Avenue, Portsmouth, New Hampshire



Description: Overview of the southwestern portion of Wetland 1 (PEM/SS1E), located within and along the edge of the utility right-of-way south of Borthwick Avenue and northeast of Barberry Lane.



Description: Overview of the forested western portion of Wetland 1 (PFO1E), located north of the utility right-of-way and south of Borthwick Avenue. This portion was flagged in the field as series 1B.



Tighe&Bond

Client: Portsmouth Regional Hospital

Job Number: P0616-005

Site: Proposed Parking Expansion Project, Borthwick Avenue, Portsmouth, New Hampshire



Photograph No.: 4	Date: 09/17/2021	Direction Taken: South
i notograph non i	Date: 03/17/2021	

Description: Overview of the northeastern portion of Wetland 1 (PSS/FO1E), located north of the utility right-of-way. A roadside ditch along Borthwick Avenue drains into this portion of Wetland 1.



Tighe&Bond

Client: Portsmouth Regional Hospital

Job Number: P0616-005

Site: Proposed Parking Expansion Project, Borthwick Avenue, Portsmouth, New Hampshire

Description: Overview of Wetland 2 (PEM1E), which lies north of and is hydrologically isolated from Wetland 1, and approximately 30 feet south of Borthwick Avenue. This wetland is fed via culvert.



Photograph No.: 6	Date: 09/17/2021	Direction Taken: Southwest
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Description: Overview of Wetland 3 (PFO1C), which lies between the active and inactive Boston & Maine railroad beds, south of the fenced Unitil property.



-

Tighe&Bond

Client: Portsmouth Regional Hospital

Job Number: P0616-005

Site: Proposed Parking Expansion Project, Borthwick Avenue, Portsmouth, New Hampshire

Photograph No.: 7	Date: 09/17/2021	Direction Taken: Northeast
Description: Overview of railroad bed, southwest of	of Wetland 4 (PFO1C), of the fenced Unitil pro	which lies north of the inactive Boston & Maine perty.
		A States
Ana la		
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Portsmouth Regional Hospital Satellite Parking Lot Construction Sequence

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

- 1. FILE A CONSTRUCTION NOTICE WITH THE NH DEPARTMENT OF ENVIRONMENTAL SERVICES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
- 2. CUT AND CLEAR TREES.
- 3. CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
 - NEW CONSTRUCTION
 - DEVELOPMENT OF BORROW PIT AREAS
 - DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE
 - FLOOD PLAIN EXCAVATION WORK
 - STREAM CHANNEL MODIFICATIONS
 - CONTROL OF DUST
 - CONSTRUCTION OF ACCESS AND HAUL ROAD
 - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
 - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- 4. ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
- 5. CLEAR AND DISPOSE OF DEBRIS.
- 6. CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- 7. GRADE AND GRAVEL ROADWAYS AND PARKING AREAS ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- 10. SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
- 11. FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- 12. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 14. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

Owner's/Agent Letter of Authorization

This letter is to Authorize <u>Tighe & Bond, Inc.</u> (Civil Engineer), to represent and submit on behalf of <u>Portsmouth Regional Hospital</u> (Applicant), applications and materials in all site design and permitting matters for the proposed project at the east corner between Borthwick Ave and Eileen Dondero Foley Ave. This project includes the construction of a satellite parking lot, and associated site and stormwater improvements. This authorization shall relate to those activities that are required for local, state, and federal permitting for the above project and include and required signatures for those applications.

Signatu

Print Name

Date

With

MATTHEW Print Name

<u>3 · 16 · 2022</u> Date



APPENDIX D

Abutters List

Portsmouth Regional Hospital Satellite Parking Lot Portsmouth, New Hampshire

PROJECT LOCATION Borthwick Avenue Portsmouth, NH 03801	<u>MAP #</u> 234	<u>LOT #</u> 7-4A
ABUTTERS 330 Borthwick Avenue HCA Realty Inc c/o Ducharme McMillen & Assoc – HCA NH PO Box 80610 Indianapolis, IN 46280	MAP # 240	LOT # 2-2
Bartlett Boston and Maine Corp Iron Horse PK High St. No Billerica, MA 01862	165	14
139 Barberry Lane Northern Utilities Inc Accouts Payable 6 Liberty Ln West Hampton, NH 03842	234	1
Barberry Lane Public Service Co of NH PO Box 270 Hartford, CT 06141	234	2
Bortwick Avenue Public Service Co of NH PO Box 270 Hartford, CT 06141	234	7-7
94 Coakley Road Howard Stephen A 94 Coakley Road Portsmouth, NH 03801	234	7-5C
92 Coakley Road Johnson Paul R, Johnson Breegan 92 Coakley Road Portsmouth, NH 03801	234	7-5B
90 Coakley Road Mitchell Joseph R 94 TR, Mitchell Ruth V 94 TR 50 Fox PT Rd Newington, NH 03801	234	7-5A

445 Borthwick Avenue City of Portsmouth 1 Junkins Avenue Portsmouth, NH 03801	234	7-3
OWNER HCA Realty Inc c/o Ducharme McMillen & Assoc – HCA NH PO Box 80610 Indianapolis, IN 46280	234	7-4A

APPLICANT

Portsmouth Regional Hospital (subsidiary of HCA Healthcare Inc.)

ENGINEER

Tighe & Bond, Inc. 177 Corporate Drive Portsmouth, NH 03801

(7.1_Abutters list.docx)

PUBLIC NOTICE

NOTICE OF INTENT TO FILE

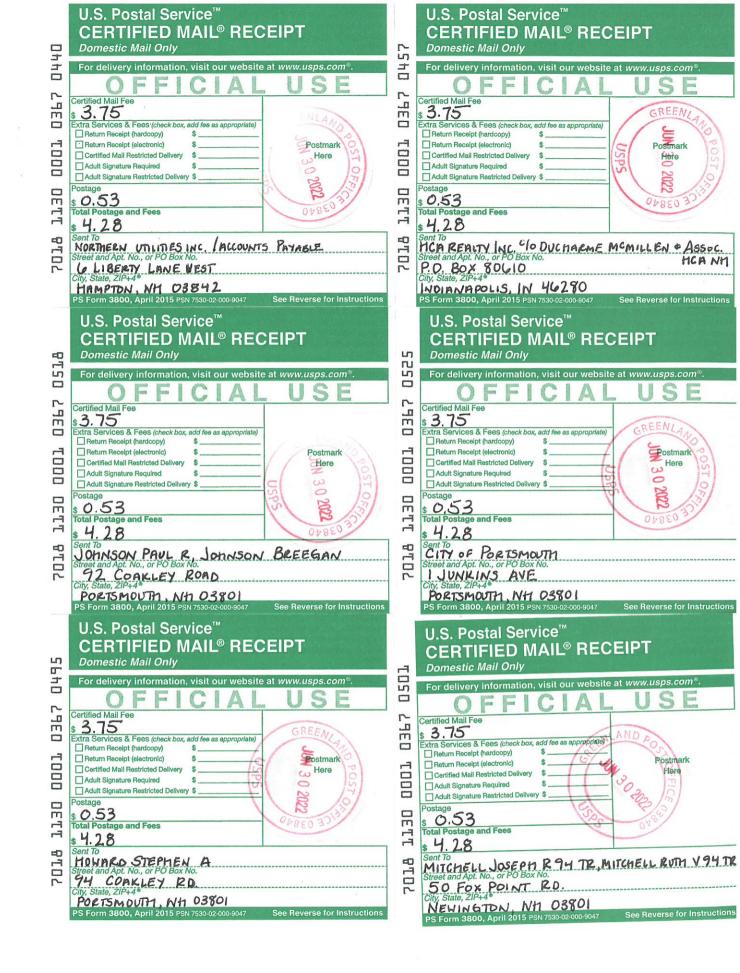
Please take notice that Portsmouth Regional Hospital (subsidiary to HCA Healthcare Inc.) is intending to file a Wetland Application – Standard Dredge and Fill Wetlands Permit Application with the New Hampshire Department of Environmental Services for a proposed satellite parking lot to be constructed at the parcel identified as Lot 7-4A on Map 234 at the northeast corner of Borthwick Avenue and Eileen Dondero Foley Avenue in Portsmouth, New Hampshire.

The proposed project consists of the construction of an approximately 501 space parking lot with associated site improvements. This additional parking is to support Portsmouth Regional Hospital's existing facility and to allow for future growth in patient care.

The proposed condition will result in 8,720 square feet of permanent wetland impacts to on site wetlands.

Plans and details of this application are on file, for your review, at the City of Portsmouth Clerk's Office, 1 Junkins Avenue, Portsmouth, New Hampshire (8:00am - 4:30pm) or at the NHDES Wetlands Bureau, 29 Hazen Drive, Concord, New Hampshire (8:00am - 4:00pm).

(7.2_Abutter Notification Letter.docx)









APPENDIX E

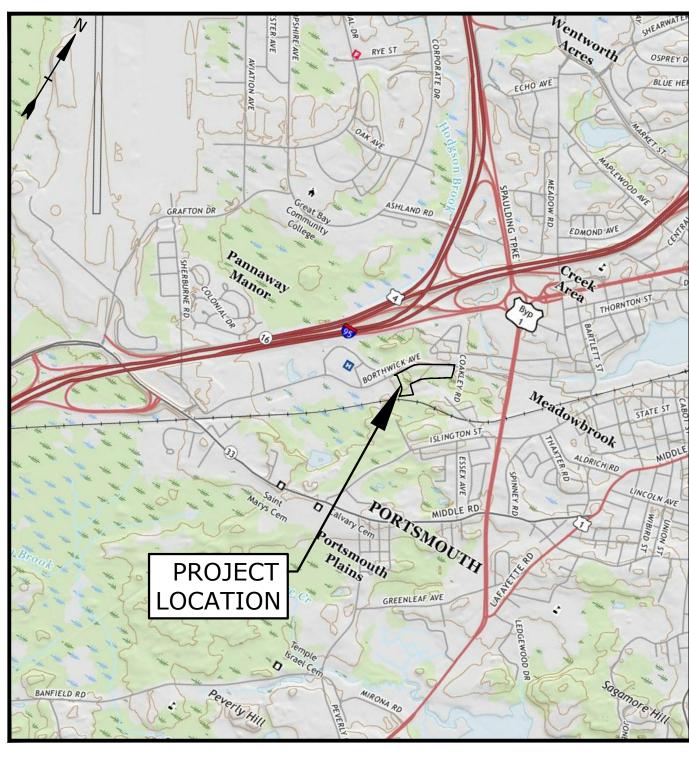
PROPOSED SATELLITE PARKING LOT PORTSMOUTH, NEW HAMPSHIRE BORTHWICK AVENUE & EILEEN DONDERO FOLEY AVENUE PERMIT DRAWINGS MARCH 22, 2022 LAST REVISED MAY 23, 2022

LIST OF DRAWINGS			
SHEET NO.	SHEET NO. SHEET TITLE		
	COVER SHEET	05/23/2022	
1 OF 2	EXISTING CONDITIONS PLAN	03/22/2022	
2 OF 2	EXISTING CONDITIONS PLAN	03/22/2022	
G-101	GENERAL NOTES, ABBREVIATIONS, & LEGEND SHEET	05/23/2022	
C-101	DEMOLITION PLAN	05/23/2022	
C-102	OVERALL PARKING PLAN	05/23/2022	
C-102.1	SITE PLAN	05/23/2022	
C-103	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	05/23/2022	
C-104	UTILITY PLAN	05/23/2022	
C-105	LANDSCAPE PLAN	05/23/2022	
C-106	PHOTOMETRICS PLAN	05/23/2022	
C-501	EROSION CONTROL NOTES & DETAILS SHEET	05/23/2022	
C-502	DETAILS SHEET	05/23/2022	
C-503	DETAILS SHEET	05/23/2022	
C-504	DETAILS SHEET	05/23/2022	
C-505	DETAILS SHEET	05/23/2022	
C-506	DETAILS SHEET	05/23/2022	
C-507	DETAILS SHEET	05/23/2022	
C-508	DETAILS SHEET	05/23/2022	
C-509	DETAILS SHEET	05/23/2022	
C-510	DETAILS SHEET	05/23/2022	

LIST OF PERMITS		
FEDERAL	STATUS	DATE
CONSTRUCTION GENERAL PERMIT (CGP) & NOI		
LOCAL		
SITE PLAN REVIEW PERMIT		
ZONING BOARD OF ADJUSTMENT - SPECIAL EXCEPTION & VARIANCE	APPROVED	2/23/2022
STATE		
NHDES STANDARD DREDGE AND FILL WETLAND IMPACT PERMIT		
NHDES ALTERATION OF TERRAIN		







LOCATION MAP SCALE: 1" = 2,000'

- CONSTRUCTION NOTES: THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REOUIRED DIMENSION IS NOT PROVIDED ON THE PLANS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFET OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
- . TIGHE & BOND. ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.

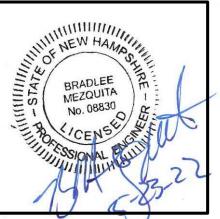


APPLICANT:

Portsmouth Regional Hospital 333 Borthwick Avenue Portsmouth, NH 03801

OWNER:

HCA Realty Inc. c/o Ducharme Mcmillen & Assoc - HCA NH PO Box 80610 Indianapolis, IN 46280









102 Kent Place, Newmarket, NH 03857 (603) 659-6560 2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060 10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005 http://www.doucetsurvey.com



NOTES:

1. REFERENCE:

ΤΑΧ	MAP	234,	L0 ⁻	T 7-	-4A	
BOR	THWIC	K AV	/ENU	ΕE	XTEN	ISION
POR	TSMOL	JTH,	NEW	/ HA	MPS	HIRE
D.S.	PRO	ECT	NO.	282	26	

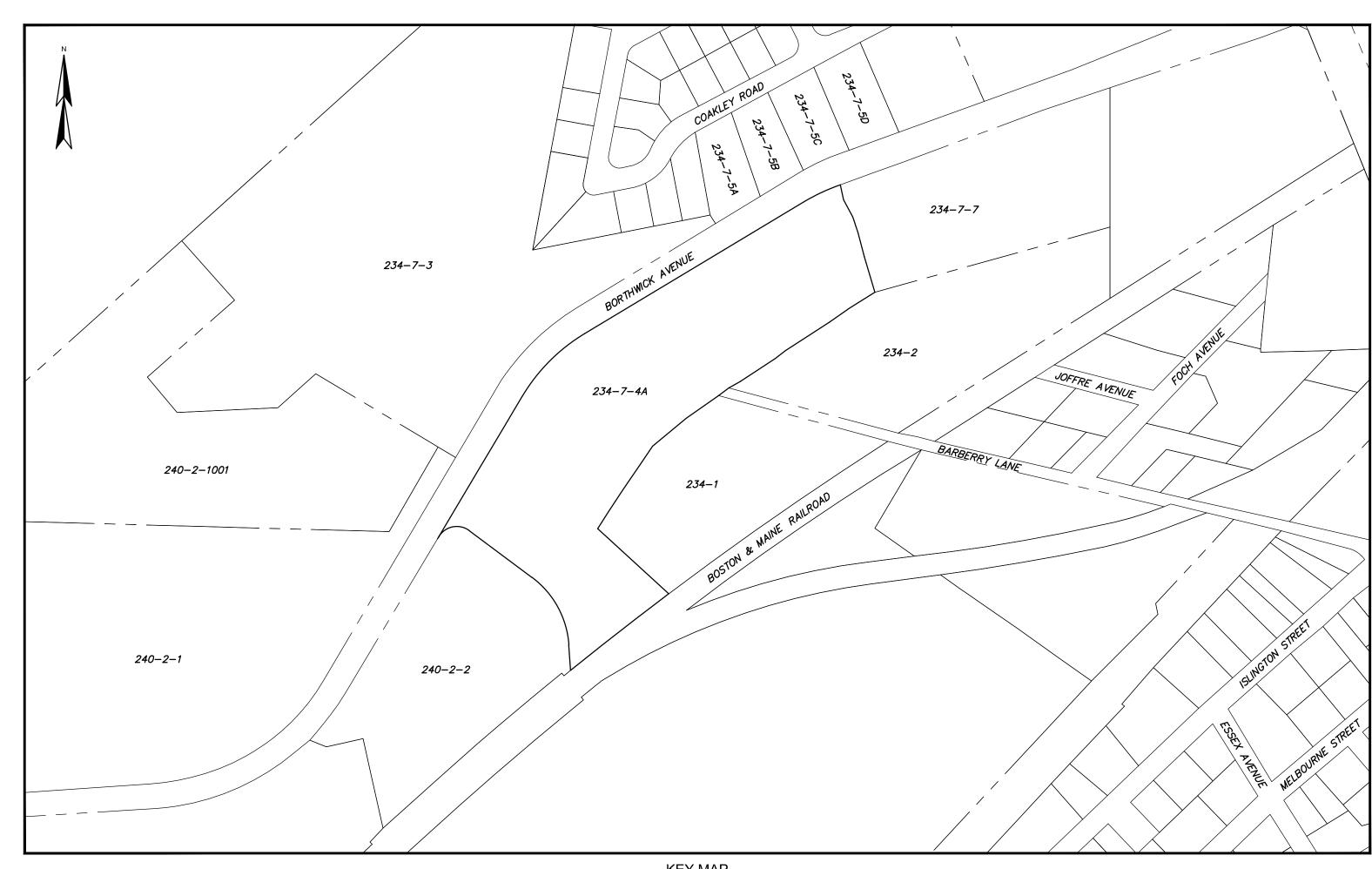
2. TOTAL PARCEL AREA:

3. OWNER OF RECORD:

- 395,745 SQ. FT. OR 9.09 AC. HCA REALTY INC. C/O DUCHARME MCMILLEN & ASSOC. – HCA NH PO BOX 80610 INDIANAPOLIS, IN 46280 R.C.R.D BOOK 4400 PAGE 2048, BOOK 4639 PAGE 2128.
- 4. TOPOGRAPHY SHOWN HEREON IS BASED ON A COMBINATION OF AERIAL MAPPING BY EASTERN TOPOGRAPHICS IN 5/03 AND CONVENTIONAL SURVEY BY DOUCET SURVEY, SEE NOTE 5. EXCEPT FOR THE NOTED AREA, NO ADDITIONAL UPDATES WERE DONE TO THE AERIAL TOPOGRAPHY FROM 2003.
- 5. FIELD SURVEY PERFORMED BY DOUCET SURVEY AT VARIOUS TIMES BETWEEN 2003 & 2021.
- 6. JURISDICTIONAL WETLANDS DELINEATED BY TIGHE & BOND, DURING MONTH YEAR IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 AND THE INTERIM REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION (OCTOBER, 2009).
- 7. FLOOD HAZARD ZONE:"X", PER FIRM MAP #33015C0260F, DATED 1/29/2021.
- 8. HORIZONTAL DATUM IS BASED ON NH STATE PLANE COORDINATE SYSTEM. AS ESTABLISHED BY JAMES VERRA & ASSOCIATES IN MAY 2003.
- 9. VERTICAL DATUM IS BASED ON NGVD 29.
- 10. THE PARCEL IS SUBJECT TO, AND/OR IN BENEFIT OF THE FOLLOWING EASEMENTS, RESTRICTIONS, ETC.
 - A. SUBJECT TO AN ELECTRIC EASEMENT GRANTED BY SAN ANTONIO ET AL TO NH ELECTRIC CO, SEE R.C.R.D. BOOK 1230, PAGE 222.
 - B. SUBJECT TO A GAS LINE EASEMENT RESERVED BY NORTHERN UTILITIES, INC., SEE R.C.R.D. BK. 4392 PG. 110
 - C. SUBJECT TO AN ACCESS AND UTILITY EASEMENT RESERVED BY ISLINGTON WOODS, LLC, SEE R.C.R.D. BOOK 4639 PAGE 2128.
 - D. SUBJECT TO THE RIGHTS OF THE CITY OF PORTSMOUTH TO CONSTRUCT & MAINTAIN A SEWER LINE, SEE R.C.R.D. BOOK 4685, PAGE 553.
 - E. SUBJECT TO AN "AGREEMENT REGARDING PROHIBITED USES", SEE R.C.R.D. BOK. 4400
 - PG. 2051. F. ALL OTHER RIGHTS OR EASEMENTS OF RECORD OR OTHERWISE. THIS PLAN DOES NOT REPRESENT A TITLE EXAMINATION, AND NONE WAS PROVIDED.
- 11. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, INC. WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- 12. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
- 13. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING; THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
- 14. ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL. WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

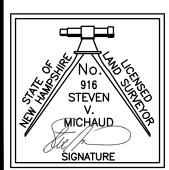
REFERENCE PLANS:

- "LOT LINE REVISION PLAN FOR PORTSMOUTH HOSPITAL OFFICE BUILDING ASSOCIATION, ISLINGTON WOODS, LLC AND HCA REALTY, INC. (TAX MAP 234, LOTS 7-4A & 7-4B) (TAX MAP 240, LOT 2-2) BORTHWICK AVENUE EXTENSION PORTSMOUTH, NEW HAMPSHIRE" DATED 1/13/06 BY DOUCET SURVEY, INC., R.C.R.D. PLAN D-33642.
- 2. "SUBDIVISION & LOT LINE REVISION PLAN BETWEEN NORTHERN UTILITIES, INC. AND ISLINGTON WOODS, LLC," BY DOUCET SURVEY, INC., DATED FEBRUARY 25, 2004, R.C.R.D. PLAN D-31871.
- 3. "GAS LINE AS-BUILT EASEMENT AND CONSERVATION EASEMENT PLAN," BY KIMBALL CHASE COMPANY, INC. DATED 10/31/85, R.C.R.D. PLAN D-15830.
- 4. "PLAT OF PROPERTY AND IMPROVEMENTS FOR HCA REALTY, INC.," BY CESP, INC. DATED DECEMBER 12, 1986, R.C.R.D. PLAN D-15831.
- 5. "EASEMENT PLAN FOR ISLINGTON WOODS, LLC AND BOSTON & MAINE CORPORATION BETWEEN ISLINGTON ST. & BORTHWICK AVE. EXT. (TAX MAP 223 LOT 113 & TAX MAP 234 LOT 7-4B) PORTSMOUTH, NEW HAMPSHIRE" DATED 10/20/2005 BY DOUCET SURVEY, INC., R.C.R.D. PLAN D-33500.
- 6. "LOT LINE REVISION PLAN LAND OF SEARAY REALTY, LLC TAX AMP 234 LOTS 2, 3, & 7–7 US ROUTE 1 BY-PASS & BARBERRY LANE PORTSMOUTH, NEW HAMPSHIRE. DATED 3/12/2014 BY DOUCET SURVEY, INC., R.C.R.D. PLAN D-38435.
- 7. "SUBDIVISION & EASEMENT PLAN LAND OF BORTHWICK FOREST, LLC (TAX MAP 241, LOT 25) AND SHOWING LAND OF HCA REALTY, INC. (TAX MAP 234, LOT 7-4A) (TAX MAP 240 LOT 2-2102) BORTHWICK AVE. & ISLINGTON ST. PORTSMOUTH, NH" DATED 11/12/2019 BY DOUCET SURVEY, INC., R.C.R.D. PLAN D-42049



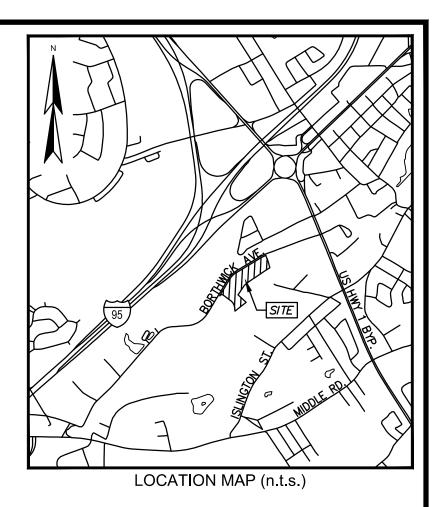
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KEY MAP

ERIAL DATA BUILDINGS STRUCTURE STRUCTURE TRAIL/WALK DRIVEWAY DRIVEWAY ORIVEWAY PAVED ROAD RAILL LONE TREE GRAVEL ROAD GRAVEL ROAD FENCE PIPELINE PIPELINE PIPELINE PIPELINE PIDICH STONE WALL CONCRETE RAILROAD RAILROAD RAILROAD	LEGEND APPROXIMATE ABUTTERS LOT LINE EXISTING EASEMENT LINE STONE WALL OHW OVERHEAD WIRE SS SS SD DRAIN LINE SD CLUEVERT G	 B B C C F.E.S H□ H
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DRILL HOLE FOUND IRON PIPE/ROD FOUND FIRE HYDRANT WATER GATE VALVE IRRIGATION CONTROL VALVE GAS GATE VALVE CATCH BASIN DRAIN MANHOLE E.S FLARED END SECTION SEWER MANHOLE HAND HOLE DECIDUOUS TREE — MAST ARM RAIL ROAD SIGNAL DRILL HOLE FOUND EDGE OF PAVEMENT EDGE OF GRAVEL VERTICAL GRANITE CURB SINGLE WHITE LINE DOUBLE YELLOW LINE ELECTRIC METER

SIGN

SIGN (TWO POSTS)

200 L	0	200	400 J
	SCALE: 1 IN	<u> 200 ЕТ</u>	
	SCALL. I INC	511 - 2001 1.	

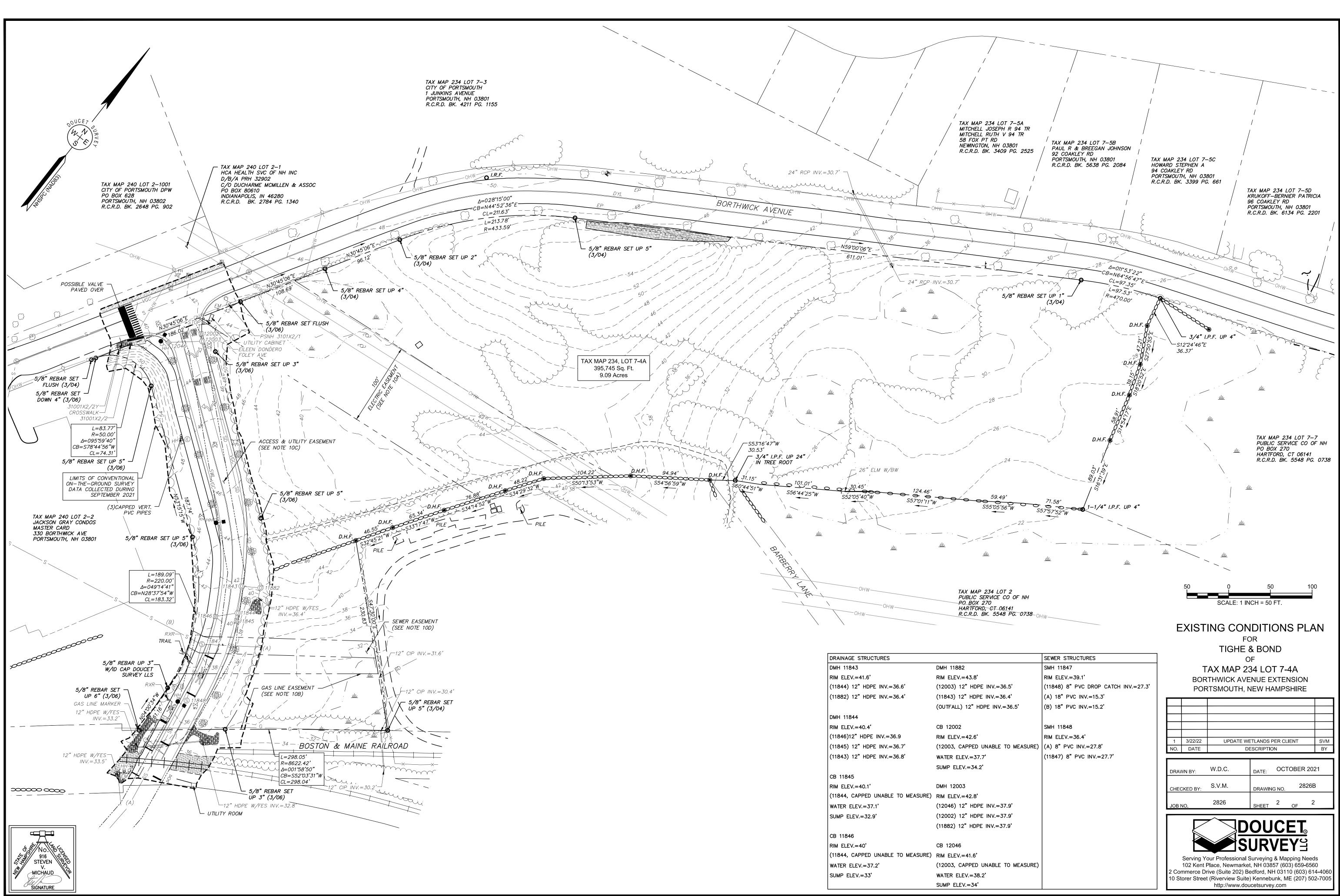
EXISTING CONDITIONS PLAN

TIGHE & BOND OF

TAX MAP 234 LOT 7-4A BORTHWICK AVENUE EXTENSION PORTSMOUTH, NEW HAMPSHIRE

	3/22/22				
1 NO.	3/22/22 DATE	-	ETLANDS PER CLIENT	SVM BY	
NU.	DATE			БТ	
	DRAWN BY: W.D.C. DATE: OCTOBER 2021 CHECKED BY: S.V.M. DRAWING NO. 2826B				
JOB NO. 2826 SHEET 1 OF 2					
Serving Your Professional Surveying & Mapping Needs 102 Kent Place, Newmarket, NH 03857 (603) 659-6560 2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060					

2 Commerce Drive (Suite 202) Bedford, NH 03110 (603) 614-4060 10 Storer Street (Riverview Suite) Kennebunk, ME (207) 502-7005 http://www.doucetsurvey.com



843) 12" HDPE INV.=36.8"	WAT
	SUM
11845	
1 ELEV.=40.1'	DMH
844, CAPPED UNABLE TO MEASURE)	RIM
TER ELEV.=37.1'	(120
MP ELEV.=32.9'	(120

	GENERAL NOTES: THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE	8.	EMULSION IMMEDIATELY PRI ALL WORK WITHIN THE CITY APPROVAL BY THE CITY OF P
I	NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING JTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.	9.	CONTRACTOR SHALL BE RES
	COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH.		STRUCTURAL ENGINEER AND LABOR, MATERIALS AND EQU
I	THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.		DESIGN APPROVED BY THE E SYSTEM AS OUTLINED IN TH
	THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION		ALL DIMENSIONS ARE TO TH ALL CONDITIONS ON THIS P
	ACTIVITIES.	12.	REQUIREMENTS OF THE SITE THE APPLICANT SHALL HAVE
	THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.	12.	CARRIER APPROVED BY THE COMMUNICATIONS CARRIER
I	THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR		RADIO CONFIGURATION. IF
	NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO		THE RESPONSIBILITY OF TH SUPERVISOR OF RADIO COM
	PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT	13.	ALL TREES PLANTED ARE TO
	IMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL,	14.	PORTSMOUTH DPW USING S THE APPLICANT SHALL PREP.
:	STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED		(CMMP) FOR REVIEW AND AF
	ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.		
	ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE,		THIS SITE PLAN SHALL BE R ALL IMPROVEMENTS SHOWN
	AND LOCAL CODES & SPECIFICATIONS. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS,		IN ACCORDANCE WITH THE I OWNERS. NO CHANGES SHA
	STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION",	З	APPROVAL OF THE PORTSMO THIS IS NOT A BOUNDARY S
	CURRENT EDITION. CONTRACTOR TO SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) ON	5.	_
I	DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR.	1.	<u>G</u> COMPACTION REQUIREMENT
(CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE IMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.		BELOW PAVED OR CONCRET
	SEE EXISTING CONDITIONS PLAN FOR BENCH MARK INFORMATION.		TRENCH BEDDING MATERIAL SAND BLANKET BACKFILL
	DEMOLITION NOTES:	;	BELOW LOAM AND SEED ARE * ALL PERCENTAGES OF COMP
	EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING		OPTIMUM MOISTURE CONTEL ASTM D-1557, METHOD C FI
	OR DEMOLITION ACTIVITIES. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE	Ъ	D-1556 OR ASTM-2922. ALL STORM DRAINAGE PIPES
I	CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS,	۷.	N-12 OR EQUAL) OR RCP CLA
(ORDINANCES AND CODES. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE	3.	ADJUST ALL MANHOLES, CAT FINISH GRADE.
(OWNER AND APPROPRIATE UTILITY COMPANY. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/	4.	CONTRACTOR SHALL PROVID SPOTS AND PONDING AREAS
I	DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.	5	RAMPS AND LOADING DOCK ALL DISTURBED AREAS NOT
	SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR		SEED FERTILIZER AND MULC
	EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.	6.	ALL STORM DRAIN CONSTRU PORTSMOUTH DEPARTMENT
	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE	7.	SPECIFICATIONS FOR HIGHV
	COMPLETED BY OTHERS. JTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER THE UTILITY COMPANY AND CITY OF		SUMPS.
	PORTSMOUTH STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES		
(CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO	1.	SEE SHEET C-501 FOR GENE
,	REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER	1	COORDINATE ALL UTILITY W
I	IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.	1.	• NATURAL GAS - UNITIL
	PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION.		WATER - CITY OF PORTSMO SEWER - CITY OF PORTSMO
	CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE		• ELECTRIC - EVERSOURCE • COMMUNICATIONS - FAIRP
I	PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO:	2.	EXISTING UTILITIES TO BE F
(CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, CATCH BASINS, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, BUILDING SLABS,	3.	DEPARTMENT OF PUBLIC WO ALL ELECTRICAL MATERIAL
I	FOUNDATION, TREES AND LANDSCAPING. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL	4.	CODE, LATEST EDITION, AND THE EXACT LOCATION OF NE
(GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN	5.	COORDINATED WITH THE AP
. (ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION	0.	CABLES.
(AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO	6.	THE CONTRACTOR SHALL PR CONNECTORS, COVER PLATE
	REPLACE DISTURBED MONUMENTS. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN		DETAILED ON THESE DRAWI OPERATIONAL.
(CONSTRUCTION LIMITS AS WELL AS CATCH BASINS/CURB INLETS THAT RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INLET PROTECTION BARRIERS SHALL BE MAINTAINED FOR	7.	SAW CUT AND REMOVE PAVE PROPOSED UTILITIES LOCAT
	THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH	8.	CONTRACTOR SHALL COORD CONDUIT CONSTRUCTION, M
I	RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED	9.	OVERHEAD WIRE RELOCATION
	AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER.		LIGHTING AND SIGN ILLUMI ENGINEER.
	THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE		
(OF A CLEAN AND SAFE CONSTRUCTION SITE.	1.	THE CONTRACTOR SHALL FU
I	SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL JTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT		THIS PLAN. NO SUBSTITUTION PLANTS SHALL BE NURSERY
	AREAS TO REMAIN.	2.	
,	SITE NOTES: PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN, INCLUDING PARKING SPACES, STOP		LIMITED TO SIZE, HEALTH, S LANDSCAPE ARCHITECT PRIC
I	AVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, FIRE LANES, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES. ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE	3.	PLANT STOCK SHALL BE GRO
(CONSTRUCTED USING WHITE PAVEMENT MARKINGS. ALL THERMOPLASTIC PAVEMENT		THE PLANT HARDINESS ZON RESEARCH SERVICE, UNITED
	MARKINGS INCLUDING LEGENDS, ARROWS, CROSSWALKS AND STOP BARS SHALL MEET THE REQUIREMENTS OF AASHTO M249. ALL PAINTED PAVEMENT MARKINGS INCLUDING	4.	PLANT MATERIAL SHALL BEA ORIGINAL PLANTING GRADE
	CENTERLINES, LANE LINES AND PAINTED MEDIANS SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".	5.	THE NUMBER OF EACH INDIVON THE PLAN IS FOR THE CO
	ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT		BETWEEN THE NUMBER OF P THE DRAWINGS, THE GREAT
I	MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.	6.	NO SUBSTITUTION OF PLANT
	SEE DETAILS FOR PAVEMENT MARKINGS, ADA SYMBOLS, SIGNS AND SIGN POSTS.	7.	APPROVAL OF THE OWNER'S THE CONTRACTOR SHALL LO
I	CENTERLINES SHALL BE FOUR (4) INCH WIDE YELLOW LINES. PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED		UNDERGROUND UTILITIES PR MIGHT OCCUR BETWEEN PLA
	BY FOUR (4) INCH WIDE LINES. STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE, WHITE THERMOPLASTIC AND CONFORM	8.	OWNER SO THAT ALTERNATE ALL DISTURBED AREAS NOT
	TO CURRENT MUTCD STANDARDS.		LOAM AND SEED. NO FILL SH THREE INCHES (3") OF NON-
	CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1	9.	

RIOR TO PLACING NEW BITUMINOUS CONCRETE. TY OF PORTSMOUTH RIGHT OF WAY IS SUBJECT TO REVIEW AND PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.

- HE DETAILS.
- TE PLAN REVIEW REGULATIONS.
- MMUNICATIONS FOR THE CITY.
- STANDARD INSTALLATION METHODS.

SITE RECORDING NOTES:

- 100TH PLANNING DIRECTOR.

GRADING AND DRAINAGE NOTES:

- TS: TE AREAS AL AND
- REAS

- K AREAS ADJACENT TO THE BUILDING.
- CH.
- IWAYS AND BRIDGES, LATEST EDITION.

EROSION CONTROL NOTES:

UTILITY NOTES:

- IOUTH
- 10UTH
- POINT AND COMCAST REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE ORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES. WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC ND ALL APPLICABLE STATE AND LOCAL CODES. IEW UTILITY SERVICES AND CONNECTIONS SHALL BE PPLICABLE UTILITY COMPANIES. UITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING ROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, ES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY INGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND /EMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL TED IN EXISTING PAVEMENT AREAS TO REMAIN DINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, ION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY. TONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE 1INATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL LANDSCAPE NOTES: URNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON IONS WILL BE PERMITTED UNLESS APPROVED BY OWNER. ALL GROWN. SERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM ATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL OF THE IOR TO ARRIVAL ON-SITE AND AFTER PLANTING. ROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY NE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL ED STATES DEPARTMENT AGRICULTURE, LATEST REVISION. AR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE

- E PRIOR TO DIGGING.
- IVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS SHOWN ON ATER NUMBER SHALL APPLY.
- NT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN
- 'S REPRESENTATIVE.

SPONSIBLE FOR OBTAINING RETAINING WALL DESIGN FROM ID/OR WALL MANUFACTURER. CONTRACTOR SHALL FURNISH ALL UIPMENT REQUIRED TO CONSTRUCT WALL IN ACCORDANCE WITH ENGINEER. RETAINING WALL SHALL BE SEGMENTAL BLOCK WALL

THE FACE OF CURB UNLESS OTHERWISE NOTED.

PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE

/E A SITE SURVEY CONDUCTED BY A RADIO COMMUNICATIONS

E CITY'S COMMUNICATIONS DIVISION. THE RADIO

R MUST BE FAMILIAR AND CONVERSANT WITH THE POLICE AND THE SITE SURVEY INDICATES IT IS NECESSARY TO INSTALL A ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE

HE PROPERTY OWNER. THE OWNER SHALL COORDINATE WITH THE O BE INSTALLED UNDER THE SUPERVISION OF THE CITY OF

PARE A CONSTRUCTION MITIGATION AND MANAGEMENT PLAN APPROVAL BY THE CITY'S LEGAL AND PLANNING DEPARTMENTS.

RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS. IN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY ALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESSED

SURVEY AND SHALL NOT BE USED AS SUCH.

95%

95%

90%

IPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE ENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH IELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM

ES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS ASS IV, UNLESS OTHERWISE SPECIFIED. ATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO

IDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW S. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS,

T TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM,

UCTION SHALL BE IN ACCORDANCE WITH THE CITY OF F OF PUBLIC WORKS SPECIFICATIONS AND NHDOT STANDARD

SINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4'

ERAL EROSION CONTROL NOTES AND DETAILS.

NORK WITH APPROPRIATE UTILITY COMPANY.

OCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH ANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE FE PLANTING LOCATIONS CAN BE DETERMINED.

T TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE 6" OF SHALL BE PLACED IN ANY WETLAND AREA.

N-COMBUSTIBLE MULCH IS TO BE USED AROUND THE TREE AND

SHRUB PLANTING AS SPECIFIED IN THE DETAILS. WHERE MULCH IS TO BE USED IN A CURBED ISLAND THE MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS SHALL RECEIVE 6" INCHES OF LOAM AND SEED.

- 10. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 11. TREE STAKES SHALL REMAIN IN PLACE FOR NO LESS THAN 6 MONTHS AND NO MORE THAN 1 YEAR
- 12. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH OCTOBER 1ST. NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.
- 13. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES. 14. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD
- AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON. LANDSCAPE CONTRACTOR SHALL COORDINATE WATERING SCHEDULE WITH OWNER DURING THE ONE (1) YEAR GUARANTEE PERIOD.
- 15. EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE REPLACED BY A TREE OF COMPARABLE SIZE AND SPECIES TREE OR SHRUB.
- 16. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR.
- 17. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
- 19. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DATES.

EXISTING CONDITIONS PLAN NOTES:

- 1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY BY DOUCET SURVEY, DATED OCTOBER 2021.
- 2. WETLAND DELINEATION BY TIGHE & BOND, ON SEPTEMBER 17, 2021, AND FIELD LOCATED BY DOUCET SURVEY.

REFERENCE PLANS:

1. SEE EXISTING CONDITIONS PLAN, BY DOUCET SURVEY.

	ABBRE		NS
	AMERICAN ASSOCIATION OF		NEW HAMPSHIRE DEPARTMENT
AASHTO	STATE HIGHWAY &	NHDES	OF ENVIRONMENTAL SERVICES
	TRANSPORTATION OFFICIALS	NRCC	NORTHEAST REGIONAL
AC	ACRES	NILLE	CLIMATE CENTER
ADA	AMERICANS WITH	NRCS	NATURAL RESOURCES
ADA	DISABILITIES ACT		CONSERVATION SERVICE
AGGR	AGGREGATE	OC	ON CENTER
AOT	ALTERATION OF TERRIAN	OD	OUTSIDE DIAMETER
BLDG	BUILDING	PAD	PROPOSED AREA DRAIN
BMP(S)	BEST MANAGEMENT	PC	POINT OF CURVATURE
	PRACTICE(S)	PCB	PROPOSED CATCH BASIN
BOC	BOTTOM OF CURB	PDMH	PROPOSED DRAINAGE
BOW	BOTTOM OF WALL	DI	MANHOLE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CCB	CAPE COD BERM	POS	PROPOSED OUTLET STRUCTURE
CMP	CORRUGATED METAL PIPE	PROP	PROPOSED
CONST	CONSTRUCT	PSMH	PROPOSED SEWER MANHOLE
COORD	COORDINATE	PSMIN	POINT OF TANGENCY
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE		
DMH	DRAINAGE MANHOLE	PVMT	
DH	DOGHOUSE	PYD	PROPOSED YARD DRAIN
DWG	DRAWING	R	RADIUS
ELEV	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	RL	ROOF LEADER
EXIST	EXISTING	ROW	RIGHT OF WAY
FES	FLARED END SECTION	SF	SQUARE FEET
FF	FINISHED FLOOR	SSSNNE	SOCIETY OF SOIL SCIENTISTS
HDPE	HIGH DENSITY POLYETHYLENE	STD	OF NORTHERN NEW ENGLAND STANDARD
HMA	HOT MIX ASPHALT	TBR	TO BE REMOVED
HMP	HOT MIX PAVEMENT	TOC	TOP OF CURB
HW	HEADWALL		
HYD	HYDRANT	TOW	TOP OF WALL
ID	INSIDE DIAMETER	TYP	TYPICAL
INV	INVERT	UD	UNDERDRAIN
L	LENGTH	USCS	UNIFIED SOIL CLASSIFICATION
LF	LINEAR FEET		SYSTEM UNITED STATES DEPARTMENT
	MAXIMUM	USDA	OF AGRICULTURE
MAX MIN	MINIMUM	W	WIDTH
	NATIONAL COOPERATIVE	W/	WITH
NCSS	SURVEY	YD	YARD DARIN
	JORVET		

SWL

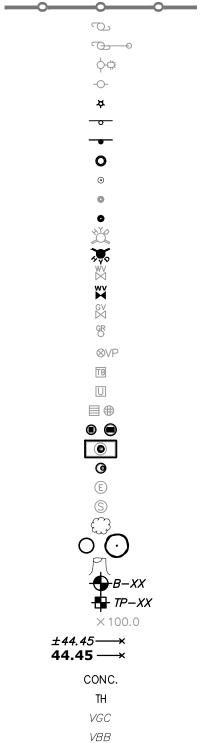
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_____X _____ _____OHW____OHW_____ _____G______G______ _____T____T_____T_____ _____PC____PC_____ —___РЕ_____РЕ____ ——___PE&C_____PE&C_____ _____W_____W______ ____98 ____ -45------..... _____ · · · ____ · · · ____ _____ A. B. A. DA A. A. A. B. A. A A

LEGEND

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EXISTING LOT LINE PROPOSED LEASE LINE APPROXIMATE LIMIT OF WORK APPROXIMATE LIMIT OF SAWCUT EXISTING RIGHT-OF-WAY LINE EXISTING CHAIN LINK FENCE PROPOSED FENCE EXISTING OVERHEAD WIRE EXISTING SEWER LINE PROPOSED SEWER LINE EXISTING DRAIN LINE PROPOSED DRAIN LINE PROPOSED DRAIN LINE EXISTING GAS LINE PROPOSED GAS LINE EXISTING TELEPHONE LINE PROPOSED COMMUNICATIONS LINE PROPOSED ELECTRIC LINE PROPOSED ELECTRIC & COMMUNICATIONS LINE EXISTING WATER LINE PROPOSED WATER LINE EXISTING MAJOR CONTOUR LINE EXISTING MINOR CONTOUR LINE PROPOSED CONTOUR LINE EXISTING TREE LINE PROPOSED TREE LINE EXISTING SHRUB LINE PROPOSED SHRUB LINE EXISTING EDGE OF WETLAND EXISTING WETLAND AREA

EXISTING CONCRETE

WETLAND BUFFER

PROPOSED CONCRETE

EXISTING CRUSHED STONE

EXISTING PAVEMENT/CONCRETE TO BE REMOVED

PROPOSED STANDARD DUTY PAVEMENT SECTION

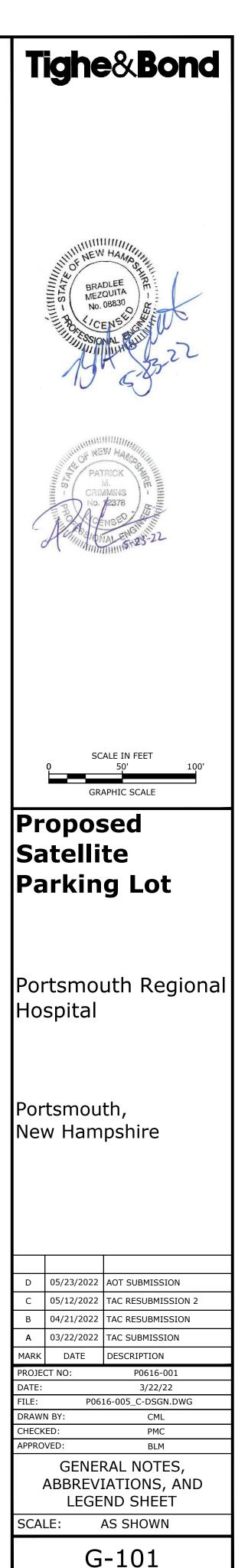
PROPOSED HEAVY DUTY PAVEMENT SECTION

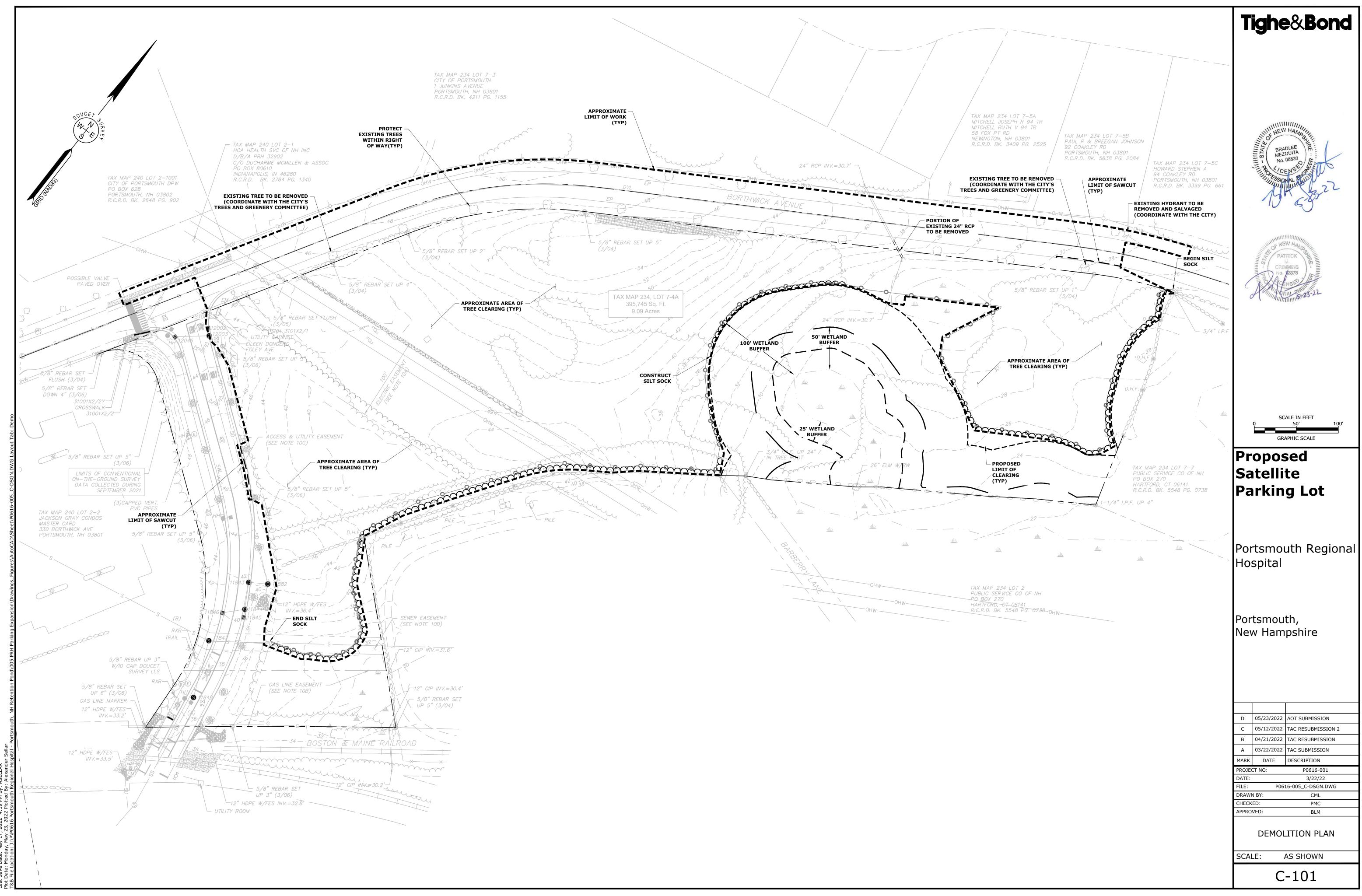
PROPOSED BITUMINOUS SIDEWALK

PROPOSED SNOW STORAGE AREA

PROPOSED BUFFER ENHANCEMENT AREA

APPROXIMATE LIMIT OF WORK APPROXIMATE LIMIT OF SAWCUT PROPOSED SILT SOCK EXISTING UTILITY POLE EXISTING UTILITY POLE & GUY WIRE EXISTING UTILITY POLE W/LIGHT EXISTING UTILITY POLE STUMP PROPOSED LIGHT POLE BASE EXISTING SIGN PROPOSED SIGN EXISTING IRON PIPE/ROD FOUND EXISTING POST EXISTING BOLLARD PROPOSED BOLLARD EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT WATER GATE VALVE PROPOSED WATER GATE VALVE EXISTING GAS GATE VALVE EXISTING GAS REGULATOR EXISTING VENT PIPE EXISTING TELEPHONE BOX EXISTING UTILITY BOX EXISTING CATCH BASIN PROPOSED CATCH BASIN EXISTING DRAIN MANHOLE PROPOSED DRAIN MANHOLE EXISTING ELECTRIC MANHOLE EXISTING SEWER MANHOLE EXISTING DECIDUOUS TREE PROPOSED LANDSCAPING EXISTING TREE STUMP BORING LOCATION TEST PIT LOCATION EXISTING SURVEYED SPOT GRADE APPROX EXISTING SPOT GRADE PROPOSED SPOT GRADE CONCRETE THRESHOLD ELEVATION VERTICAL GRANITE CURB SLOPED BITUMINOUS BERM SINGLE WHITE LINE DOUBLE YELLOW LINE





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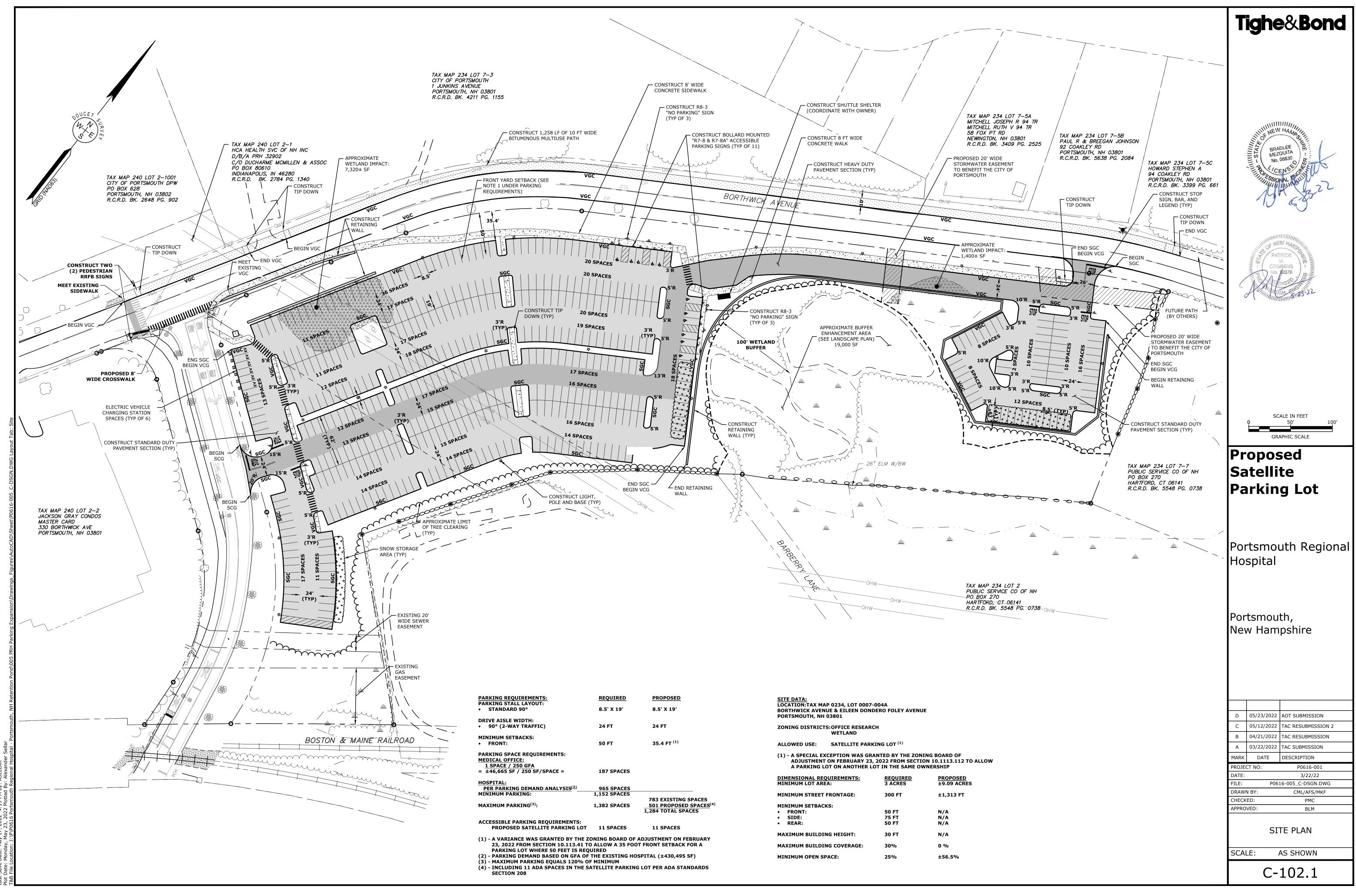
PARKING REQUIREMENTS:	REQUIRED	PROPOSED	
PARKING STALL LAYOUT: • STANDARD 90°	8.5' X 19'	8.5' X 19'	
DRIVE AISLE WIDTH:			
• 90° (2-WAY TRAFFIC)	24 FT	24 FT	
MINIMUM SETBACKS:			
• FRONT:	50 FT	35.4 FT ⁽¹⁾	
PARKING SPACE REQUIREMENTS:			
MEDICAL OFFICE:			
<u>1 SPACE / 250 GFA</u>			
= ±46,665 SF / 250 SF/SPACE =	187 SPACES		
HOSPITAL:			
PER PARKING DEMAND ANALYSIS ⁽²⁾	965 SPACES		
MINIMUM PARKING:	1,152 SPACES		
		783 EXISTING SPACE	S
MAXIMUM PARKING ⁽³⁾ :	1,382 SPACES	501 PROPOSED SPAC	ES
		1,284 TOTAL SPACES	

ACCESSIBLE PARKING REQUIREMENTS: PROPOSED SATELLITE PARKING LOT 11 SPACES

A VARIANCE WAS GRANTED BY THE ZONING BOARD OF ADJUSTMENT ON FEBRUARY 23, 2022 FROM SECTION 10.113.41 TO ALLOW A 35 FOOT FRONT SETBACK FOR A PARKING LOT WHERE 50 FEET IS REQUIRED
 PARKING DEMAND BASED ON GFA OF THE EXISTING HOSPITAL (±430,495 SF)
 MAXIMUM PARKING EQUALS 120% OF MINIMUM
 INCLUDING 11 ADA SPACES IN THE SATELLITE PARKING LOT PER ADA STANDARDS SECTION 208

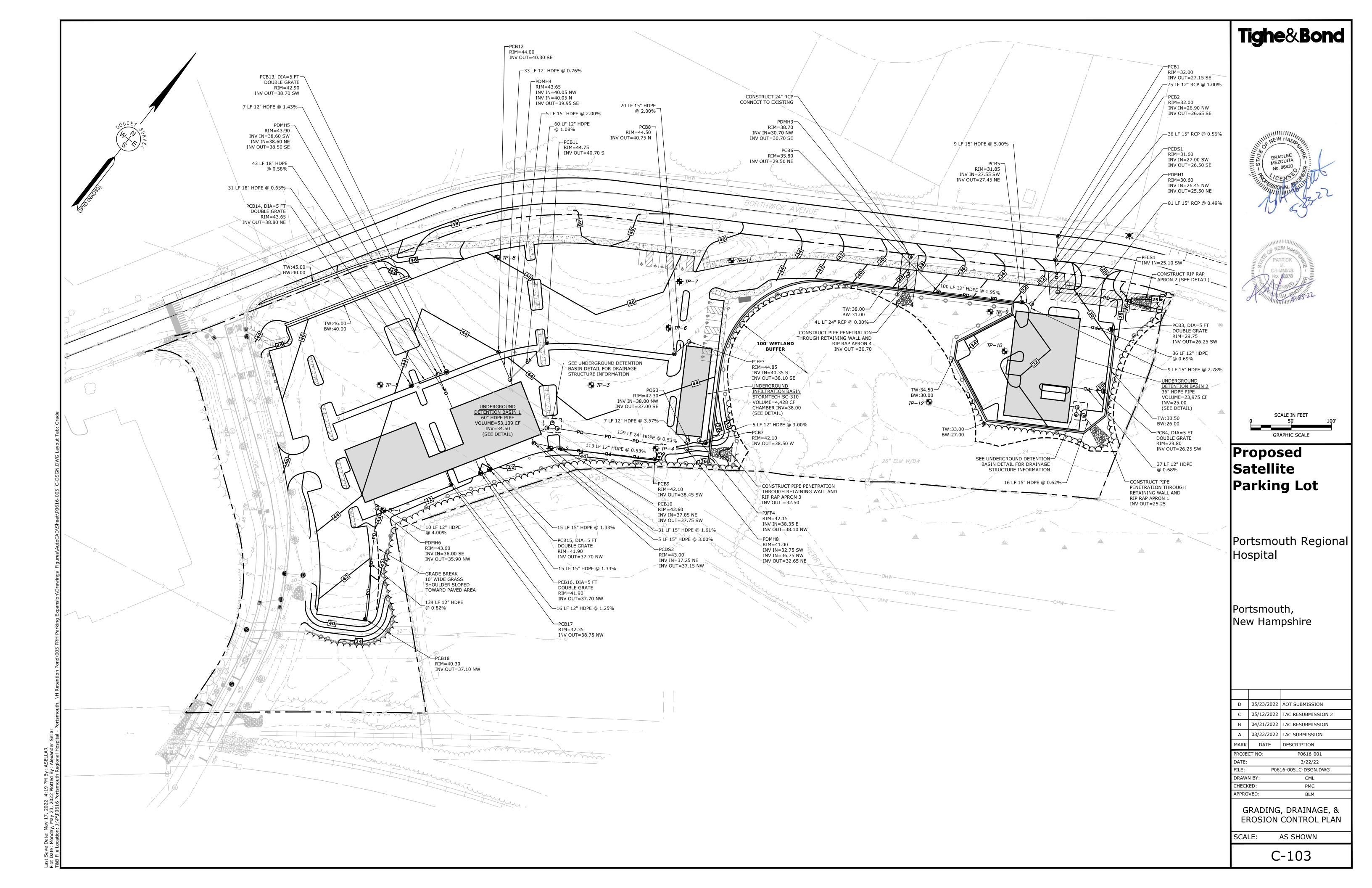
11 SPACES

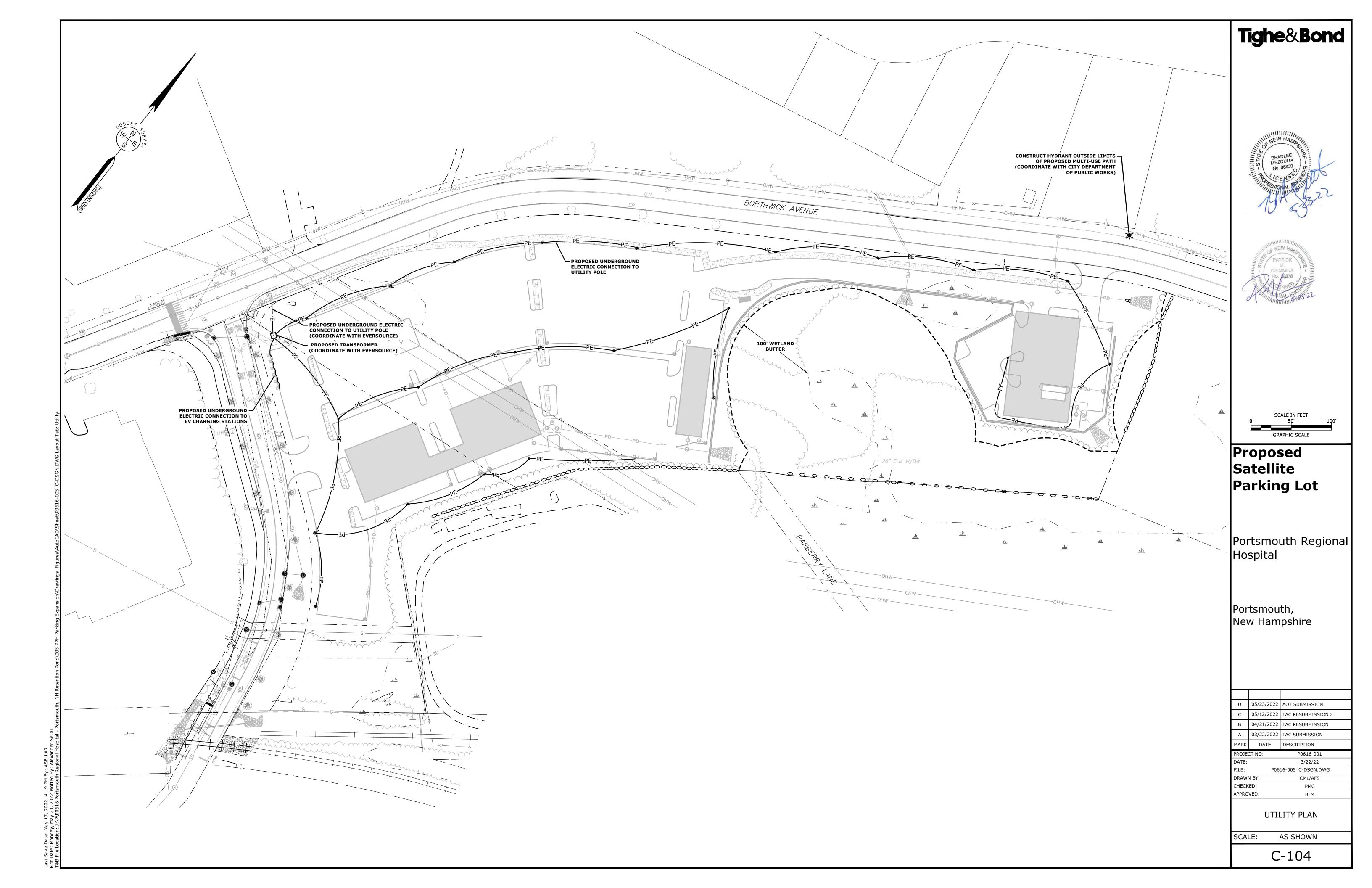
	Tighe&Bond
	BRADLEE MEZQUITA No. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL MARKANA NO. 08830 VCENSCONAL PULL VILL MARKANA NO. 08830 VCENSCONAL PULL VILL VILL VILL VILL VILL VILL VILL V
ige 190° 20° GRAPHIC SCALE Proposed Satellite Parking Lot Portsmouth Regional Hospital Hospital Portsmouth, Regional Hospital Portsmouth, Regional B 19/2/2022 Art Eusumission 2 B 19/2/2022 Art Eusumission 2 B 19/2/2022 Art Eusumission 1 A 19/2/2022 Tac RESUMISSION B 19/2/2022 B 19/2/2022 Art Eusumission 1 DATE: 2/2/2027 Tac SUMISSION 1 CRAWN BY: CM/AFS/MET	PATRICK M. CRIMMINS No. 12378
Hospital Portsmouth, New Hampshire	GRAPHIC SCALE Proposed Satellite
New Hampshire D 05/23/2022 AOT SUBMISSION C 05/12/2022 TAC RESUBMISSION 2 B 04/21/2022 TAC RESUBMISSION A 03/22/2022 TAC SUBMISSION MARK DATE PROJECT NO: P0616-001 DATE: 3/22/22 FILE: P0616-005_C-DSGN.DWG DRAWN BY: CML/AFS/MKF	Hospital
C05/12/2022TAC RESUBMISSION 2B04/21/2022TAC RESUBMISSIONA03/22/2022TAC SUBMISSIONMARKDATEDESCRIPTIONPROJECT NO:P0616-001DATE:3/22/22FILE:P0616-005_C-DSGN.DWGDRAWN BY:CML/AFS/MKF	
CHECKED:PMCAPPROVED:BLM	C 05/12/2022 TAC RESUBMISSION 2 B 04/21/2022 TAC RESUBMISSION A 03/22/2022 TAC SUBMISSION MARK DATE DESCRIPTION PROJECT NO: P0616-001 DATE: 3/22/22 FILE: P0616-005_C-DSGN.DWG DRAWN BY: CML/AFS/MKF CHECKED: PMC
OVERALL PARKING PLAN SCALE: AS SHOWN C-102	SCALE: AS SHOWN

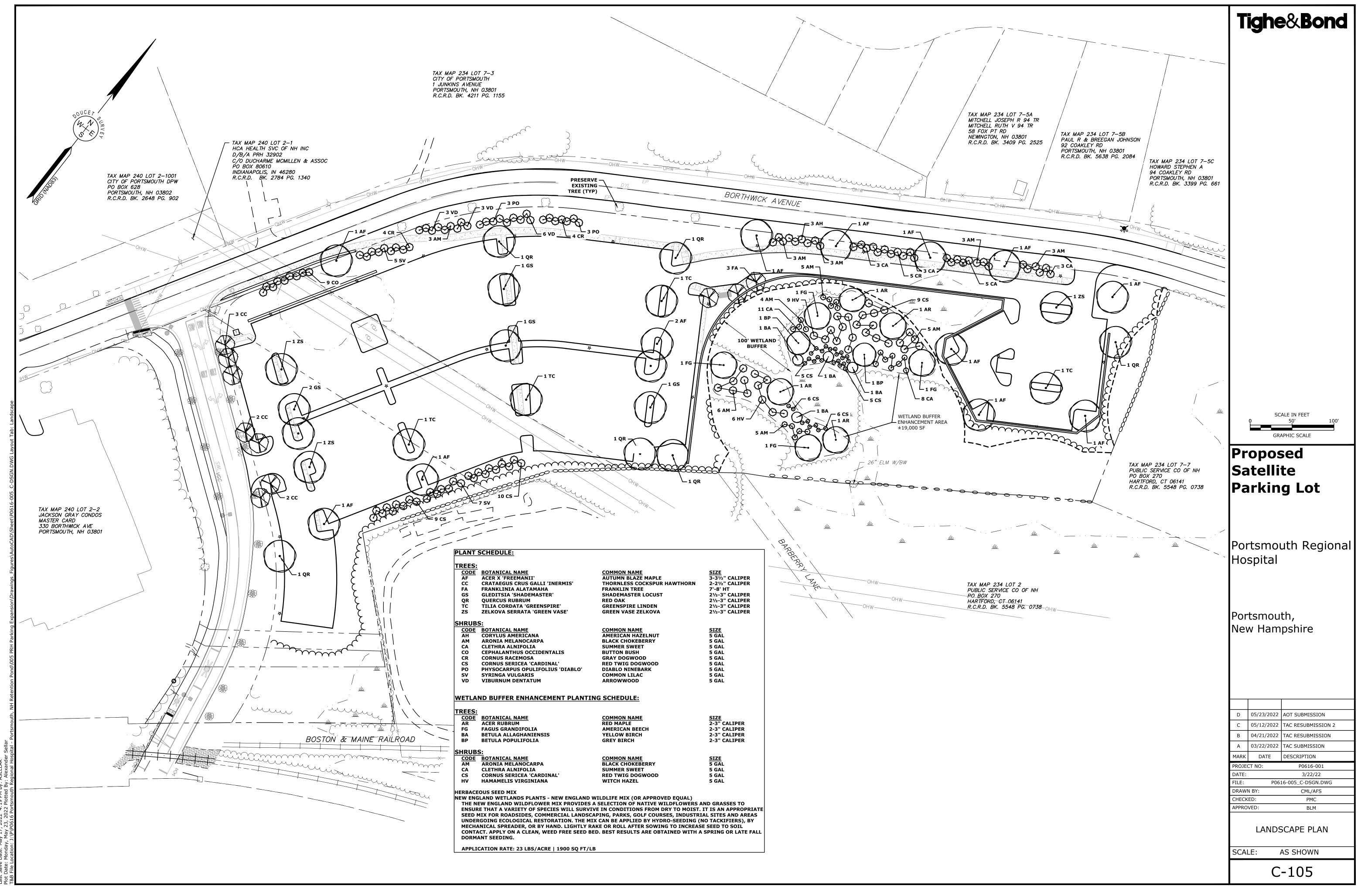


PARKING REQUIREMENTS:	REQUIRED	PROPOSED
PARKING STALL LAYOUT:		
• STANDARD 90°	8.5' X 19'	8.5' X 19'
DRIVE AISLE WIDTH:		
• 90° (2-WAY TRAFFIC)	24 FT	24 FT
MINIMUM SETBACKS:		
• FRONT:	50 FT	35.4 FT ⁽¹⁾
PARKING SPACE REQUIREMENTS:		
MEDICAL OFFICE:		
1 SPACE / 250 GFA		
= ±46,665 SF / 250 SF/SPACE =	187 SPACES	
HOSPITAL:		
PER PARKING DEMAND ANALYSIS ⁽²⁾	965 SPACES	
MINIMUM PARKING:	1,152 SPACES	
	-	783 EXISTING SPAC
MAXIMUM PARKING ⁽³⁾ :	1,382 SPACES	501 PROPOSED SPAC
		1,284 TOTAL SPACES

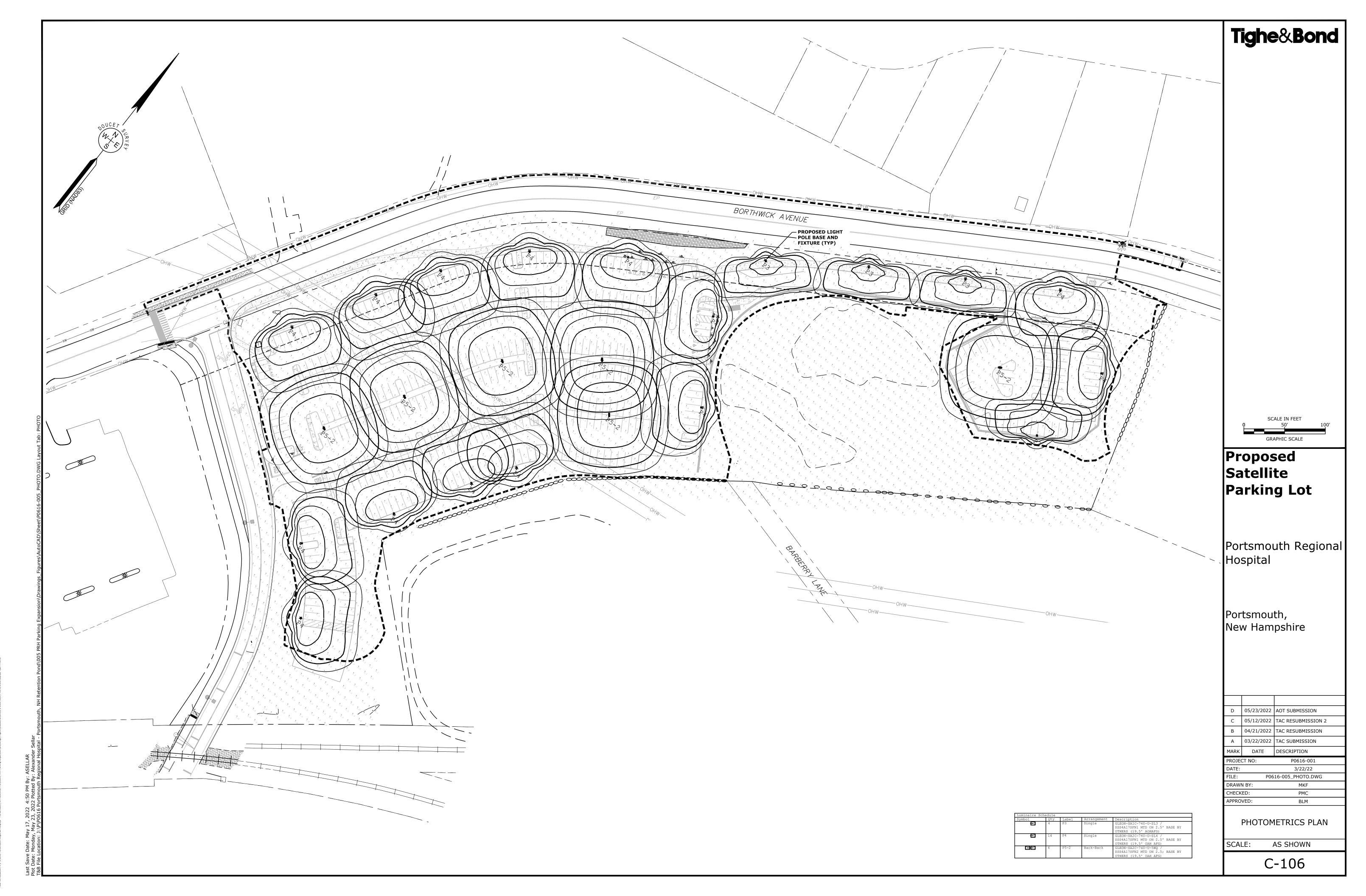
<u>SITE DATA:</u> LOCATION:TAX MAP 0234, LOT 000 BORTHWICK AVENUE & EILEEN DO PORTSMOUTH, NH 03801		IE
ZONING DISTRICTS:OFFICE RESEA WETLAND	ARCH	
ALLOWED USE: SATELLITE PA	RKING LOT ⁽¹⁾	
(1) - A SPECIAL EXCEPTION WAS (ADJUSTMENT ON FEBRUARY A PARKING LOT ON ANOTHER	23, 2022 FROM SECTI	ON 10.1113.112 TO ALLC
<u>DIMENSIONAL REQUIREMENTS:</u> MINIMUM LOT AREA:	<u>REQUIRED</u> 3 ACRES	PROPOSED ±9.09 ACRES
MINIMUM STREET FRONTAGE:	300 FT	±1,313 FT
MINIMUM SETBACKS:		
FRONT:	50 FT	N/A
• SIDE:	75 FT	N/A
• REAR:	50 FT	N/A
	30 ET	N / A







BOTANICAL NAME		SIZE
ACER X 'FREEMANII'	<u>COMMON NAME</u> AUTUMN BLAZE MAPLE	3-31/2" CALIPER
CRATAEGUS CRUS GALLI 'INERMIS'	THORNLESS COCKSPUR HAWTHORN	2-21/2" CALIFER
FRANKLINIA ALATAMAHA	EDANKI IN TOFF	7'-8' HT
GLEDITSIA 'SHADEMASTER'	FRANKLIN TREE SHADEMASTER LOCUST	2 ¹ / ₂ -3" CALIPER
QUERCUS RUBRUM	RED OAK	2 ¹ / ₂ -3" CALIFER
TILIA CORDATA 'GREENSPIRE'		2 ¹ / ₂ -3" CALIFER
ZELKOVA SERRATA 'GREEN VASE'	RED OAK GREENSPIRE LINDEN GREEN VASE ZELKOVA	21/2-3" CALIPER
LEROVA SERVATA GREEN VASE	GREEN VASE ZEEKOVA	Z72-J CALIFLK
DOTANICAL NAME		CT7E
BOTANICAL NAME CORYLUS AMERICANA		<u>SIZE</u> 5 GAL
ARONIA MELANOCARPA		5 GAL
	BLACK CHOKEBERRY	5 GAL
CEPHALANTHUS OCCIDENTALIS		5 GAL
CODNUS DACEMOSA	BUTTON BUSH	5 GAL
CORNUS RACEMOSA CORNUS SERICEA 'CARDINAL' PHYSOCARPUS OPULIFOLIUS 'DIABLO'		5 GAL
LUKNUS SERICEA CARDINAL		
PHYSOCARPUS OPULIFOLIUS DIABLO		5 GAL
SYRINGA VULGARIS		5 GAL
VIBURNUM DENTATUM	ARROWWOOD	5 GAL
D BUFFER ENHANCEMENT PLANTI	NG SCHEDULE:	
BOTANICAL NAME	COMMON NAME	SIZE
ACER RUBRUM	<u>COMMON NAME</u> RED MAPLE AMERICAN BEECH	2-3" CALIPER
FAGUS GRANDIFOLIA	AMERICAN BEECH	2-3" CALIPER
BETULA ALLAGHANIENSIS	YELLOW BIRCH	2-3" CALIPER
BETULA POPULIFOLIA	GREY BIRCH	2-3" CALIPER
BOTANICAL NAME	COMMON NAME	SIZE
<u>BOTANICAL NAME</u> ARONIA MELANOCARPA	BLACK CHOKEBERRY	5 GAL
	SUMMER SWEET	5 GAL
CORNUS SERICEA 'CARDINAL'	RED TWIG DOGWOOD	5 GAL
HAMAMELIS VIRGINIANA	WITCH HAZEL	5 GAL



Save Date: May 17, 2022 4:50 PM By: ASELLAR Date: Monday May 23, 232 24:50 PM By: ASELLAR File Jon Schoon : 1x0 DMC 15: Dorzenomite darkana Banacian burnin Drawing BPH Darkim Evrancian/Inawinge Finings Anny-2015kaar10DG16:ADIS

PROJECT OWNER: P	<u>FORMATION</u> ORTSMOUTH REGIONAL HOSPITAL	AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE S 3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO
	33 BORTHWICK AVENUE ORTSMOUTH, NH	SITE TO ABUTTING AREAS INCLUDING BUT NOT LIMITED T FOLEY AVENUE.
PROJECT NAME: P	ROPOSED SATELLITE PARKING LOT	
	ORTSMOUTH, NH	STOCKPILES: 1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM (
PROJECT MAP / LOT: M PROJECT LATITUDE: 4		 ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPOR THE ONSET OF PRECIPITATION.
PROJECT LONGITUDE: 7		3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIM
ROJECT DESCRIPTIO		ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIA THE BARRIER SHOULD BE INSPECTED AT THE END OF EAC
	OF THE CONSTRUCTION OF A 520 SPOT SATELLITE PARKING LOT TO SERVICE THE REGIONAL HOSPITAL. THE WORK IS ANTICIPATED TO START IN FALL 2022, AND BE 23.	 PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF U MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPRO MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STO
<u>ISTURBED AREA</u> HE TOTAL AREA TO BE	DISTURBED IS APPROXIMATELY 6.24 ACRES.	OFF SITE VEHICLE TRACKING: 1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONST
OIL CHARACTERIST		EXCAVATION ACTIVITIES.
SOILS ON SITE CONSIS	DIL SURVEY CONDUCTED BY TIGHE & BOND INC., ON NOVEMBER 18 & 19, 2021 THE F OF WOODBRIDGE, BOXFROD,SCITICO, PAXTON, HOLLIS, CHATFIELD AND SCIO	VEGETATION: 1. TEMPORARY GRASS COVER:
SOILS WHICH RANGE FI RATING(S) OF B & C.	ROM WELL DRAINED TO POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP	 A. SEEDBED PREPARATION: a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS F
		(EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAG
	OFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED	TONS PER ACRE; B. SEEDING:
	ELY FLOWS TO THE PISCATAQUA RIVER.	 a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS b. WHERE THE SOIL HAS BEEN COMPACTED BY CONS
	ENCE OF MAJOR ACTIVITIES:	DEPTH OF TWO (2) INCHES BEFORE APPLYING FER
	RARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES.	 APPLY SEED UNIFORMLY BY HAND, CYCLONE SEED SEED AND FERTILIZER). HYDROSEEDINGS, WHICH
EROSION, SEDIMEN	T AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING WILL INFLUENCE STORMWATER RUNOFF SUCH AS:	SURFACE. SEEDING RATES MUST BE INCREASED 1 C. MAINTENANCE:
NEW CONSTRU	CTION	a. TEMPORARY SEEDING SHALL BE PERIODICALLY IN
	OF BORROW PIT AREAS EDIMENT SPOIL, STUMP AND OTHER SOLID WASTE	SURFACE SHOULD BE COVERED BY VEGETATION SEDIMENTATION IS APPARENT, REPAIRS SHALL BE
FLOOD PLAIN E	XCAVATION WORK IEL MODIFICATIONS	USED IN THE INTERIM (MULCH, FILTER BARRIERS, 2. PERMANENT MEASURES AND PLANTINGS:
CONTROL OF D	JST	A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED I
NEARNESS OF	I OF ACCESS AND HAUL ROAD CONSTRUCTION SITE TO RECEIVING WATERS	TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE O B. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF I
	I DURING LATE WINTER AND EARLY SPRING ICHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE	FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS C. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLI
STABILIZED USING	THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO	BE THOROUGHLY WORKED INTO THE LOAM. LOAM SH
THEM. CLEAR AND DISPOS		PULVERIZED, SMOOTH AND EVEN, AND THEN COMPAC THE REQUIRED LINES AND GRADES WITH APPROVED F
	RARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED. _ ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE	AND 5-1/2 POUNDS PER INCH OF WIDTH; D. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. S
STABILIZED WITHI	72 HOURS OF ACHIEVING FINISHED GRADE. AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE	PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY
SEEDED AND MULC	HED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.	BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED ONE DIRECTION AND THE OTHER HALF AT RIGHT ANG
	IRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION S, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.	BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT O ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEA
	ND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS	E. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER S
). FINISH PAVING ALL	ROADWAYS AND PARKING LOTS.	F. THE SURFACE SHALL BE WATERED AND KEPT MOIST W WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL
2. COMPLETE PERMAN	TAIN ALL EROSION AND SEDIMENT CONTROL MEASURES. ENT SEEDING AND LANDSCAPING.	SATISFACTORILY COVERED WITH GRASS SHALL BE RE G. THE CONTRACTOR SHALL PROTECT AND MAINTAIN TH
3. REMOVE TRAPPED S	EDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE ON CONTROL MEASURES.	H. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING
		THE INDICATED RATE: SEED MIX APPLICATION RATE
	N SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.	CREEPING RED FESCUE 20 LBS/ACRE TALL FESCUE 20 LBS/ACRE
. THE PROJECT IS TO	BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA ER AGR 3800 RELATIVE TO INVASIVE SPECIES.	REDTOP 2 LBS/ACRE
		IN NO CASE SHALL THE WEED CONTENT EXCEED ONE COMPLY WITH STATE AND FEDERAL SEED LAWS. SEED
	ROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE	SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLA 3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL)
	JAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION"	A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILI
PRIOR TO ANY WOR	K OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR	SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MEASURES.
. CONTRACTOR SHAL	MEASURES AS REQUIRED IN THE PROJECT MANUAL. L INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALES, SILT	CONCRETE WASHOUT AREA:
FENCES, MULCH BE ORDER OF WORK.	RMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST	1. THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCH NON-STORMWATER DISCHARGES ARE PROHIBITED ON SIT
SILT SACK INLET PR	OTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN	A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER
PERIMETER CONTRO	WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT. DLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS	THEIR OWN PLANT OR DISPATCH FACILITY; B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIG
SHALL BE MAINTAII STABILIZED.	IED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN	FACILITIES TO HANDLE ANTICIPATED WASHOUT WATE
. THE CONTRACTOR	SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL	C. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEA SWALES AND SURFACE WATERS OR DELINEATED WET
	IPLETION OF CONSTRUCTION. EAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND	D. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEA MATERIALS NEED TO BE REMOVED.
FERTILIZER.	PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF	
0.25 INCH OR GREA	TER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF	ALLOWABLE NON-STORMWATER DISCHARGES: 1. FIRE-FIGHTING ACTIVITIES;
	L FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT. ON CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.	 FIRE HYDRANT FLUSHING; WATERS USED TO WASH VEHICLES WHERE DETERGENTS A
STABILIZATION:		WATER USED TO CONTROL DUST;
AN AREA SHALL BE	CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:	 POTABLE WATER INCLUDING UNCONTAMINATED WATER LI ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETER
B. A MINIMUM OF	GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;	 PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CON
C. A MINIMUM OF	3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; ROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;	9. UNCONTAMINATED GROUND WATER OR SPRING WATER;
E. IN AREAS TO B	E PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE	 FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTANINI. UNCONTAMINATED EXCAVATION DEWATERING;
REQUIREMENTS HAVE BEEN INS	OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 TALLED.	12. LANDSCAPE IRRIGATION.
. WINTER STABILIZA		WASTE DISPOSAL:
GROWTH BY OC	TOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY	 WASTE MATERIAL: A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STO
	NSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING,	TRASH AND CONSTRUCTION DEBRIS FROM THE SITE S B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BUR
ELSEWHERE. TH	E INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL ER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN	C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING T
	TAW OR SPRING MELT EVENTS;	DISPOSAL BY THE SUPERINTENDENT.

- ADVANCE OF THAW OR SPRING MELT EVENTS; B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
- AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE: A. TEMPORARY SEEDING;

B. MULCHING.

ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

- WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
- DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

DUST CONTROL

- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION
- PERIOD. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED
- MATERIALS e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER; f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE

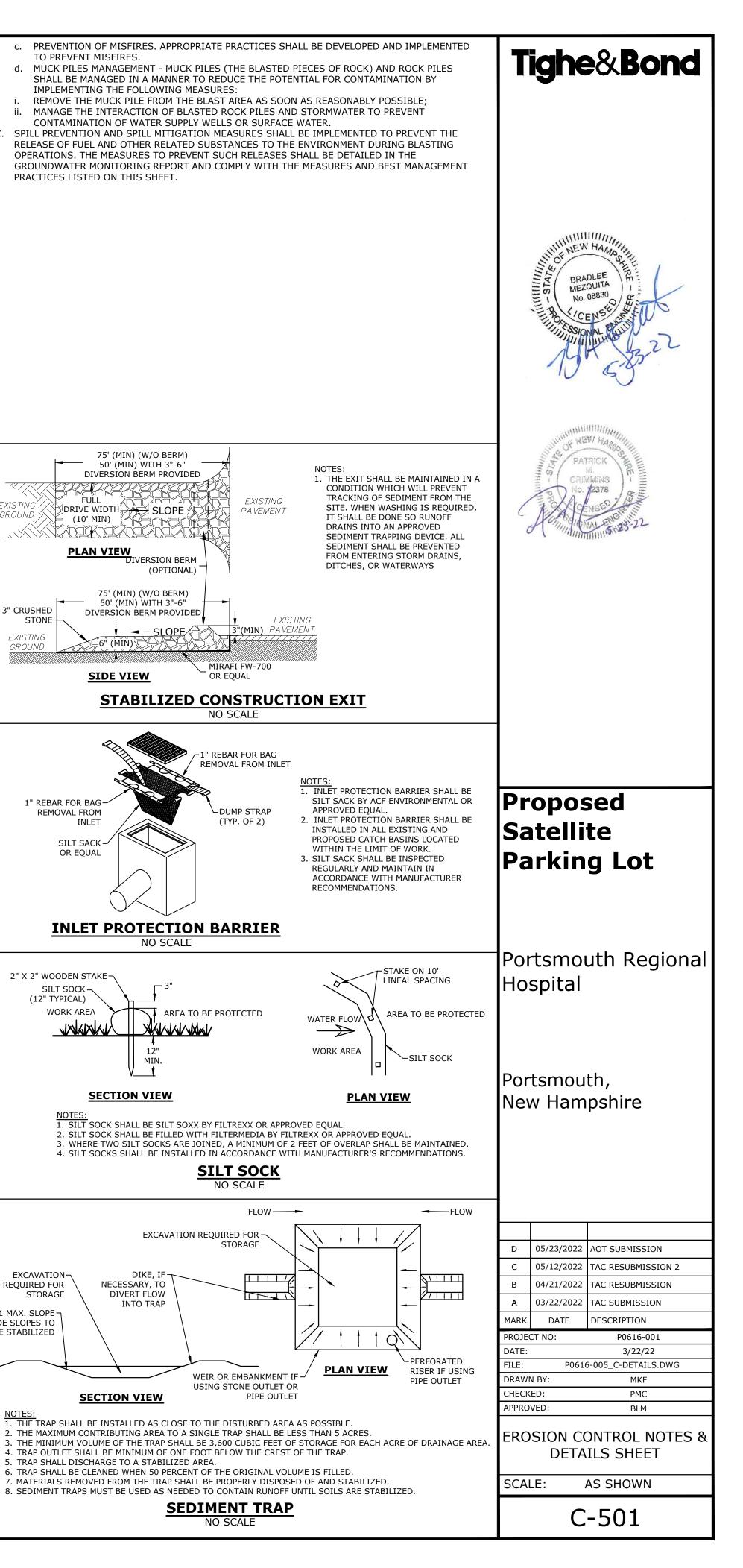
CONTAINER g. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.

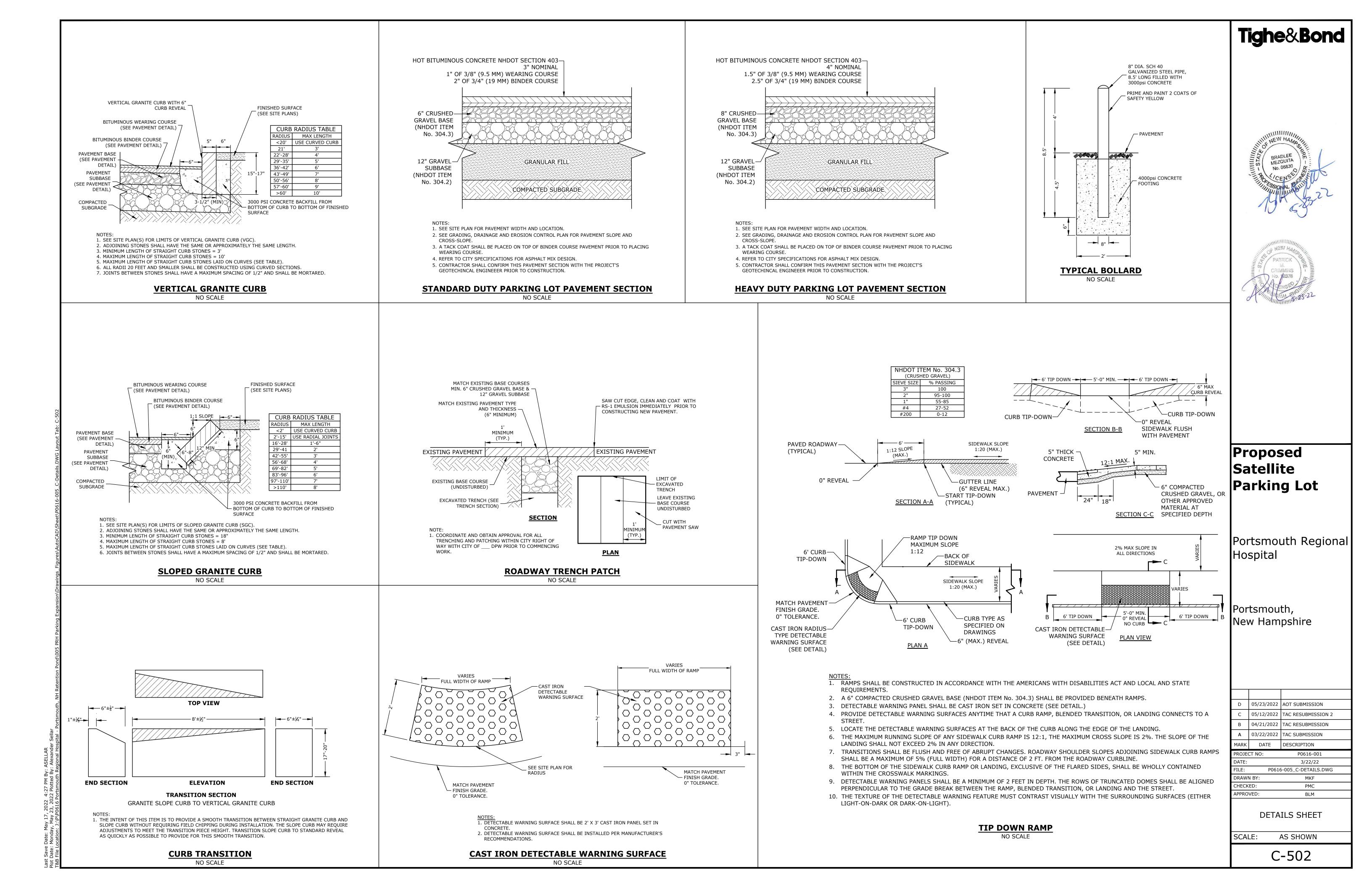
 AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING. 3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS INCLUDING BUT NOT LIMITED TO BORTHWICK AVENUE AND ELLEN DONDERO FOLEY AVENUE. 	 B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS: a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE; 	c. PREVENTI TO PREVE d. MUCK PILE SHALL BE
STOCKPILES: 1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS. 2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO	 b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION; c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL. 	IMPLEMEN i. REMOVE T ii. MANAGE T CONTAMIN
THE ONSET OF PRECIPITATION. 3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF	 C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE: a. PETROLEUM PRODUCTS: 	C. SPILL PREVEN RELEASE OF FU OPERATIONS.
 THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF 	 ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE; PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE 	GROUNDWATE PRACTICES LIS
MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES. OFF SITE VEHICLE TRACKING: 1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES	CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. iii. SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY; iv. INSPECT FUEL STORAGE AREAS WEEKLY; v. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN	
EXCAVATION ACTIVITIES. VEGETATION: 1. TEMPORARY GRASS COVER:	 WHEREVER POSSIBLE, REEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS; vi. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS; 	
 A. SEEDBED PREPARATION: a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE; 	vii. SECONDARY CONTAINENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED. viii. THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:	
 B. SEEDING: a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE; b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A 	 (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED; (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS; 	
DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED; c. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL	 (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS; (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; 	
SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING; C. MAINTENANCE: a. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL	(5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE. ix. FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE	
SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.). 2. PERMANENT MEASURES AND PLANTINGS:	DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT. HTTPS://WWW.DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF	
 A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5; B. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. 	 b. FERTILIZERS: i. FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS; 	
FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER; C. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY	 ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER; STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY 	EXISTING GROUND (1
PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;	PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. c. PAINTS:	
D. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN	 ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE; EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM; EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S 	
ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH;	INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. D. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:	3" CRUSHED STONE
 E. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE; F. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT CATLOCATED WITH CRASS CHAIL BE DESERDED. AND ALL NOVIOUS WEEDS REMOVED: 	a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;	EXISTING GROUND
SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED; G. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED; H. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:	 MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND 	
SEED MIX APPLICATION RATE CREEPING RED FESCUE 20 LBS/ACRE TALL FESCUE 20 LBS/ACRE	PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE; c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY; d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE	
REDTOP 2 LBS/ACRE IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN	 PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE; e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED; 	
SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW. 3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL): A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY	 f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. E. VEHICLE FUELING AND MAINTENANCE PRACTICE: 	1" REBAR FOF
SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.	 a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY; b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY; 	REMOVAL I
 CONCRETE WASHOUT AREA: THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE: A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT 	 c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED; d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA; e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE; 	SILT OR E
 THE CONCRETE DELIVERT TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY; B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER; 	 f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID. 	
 C. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS; D. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN 	 EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY THE ENGINEER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND 	INL
MATERIALS NEED TO BE REMOVED. ALLOWABLE NON-STORMWATER DISCHARGES:	KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.2. THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:	2" X 2" WOODEN
 FIRE-FIGHTING ACTIVITIES; FIRE HYDRANT FLUSHING; WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED; 	 A. OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE ENGINEER AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER; B. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER THE OWNER AND THE CONTRACTOR 	SILT SOC (12" TYPICAL WORK A
 WATER USED TO CONTROL DUST; POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING; ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED; 	ENGINEER, THE OWNER, AND THE CONTRACTOR; C. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES; D. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.	
 PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED; UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION; UNCONTAMINATED GROUND WATER OR SPRING WATER; EQUINDATION OF FOOTING DEALING WHIGH ARE UNCONTAMINATED; 	BLASTING NOTES: 1. CONTRACTOR SHALL CONTACT THE NHDES PRIOR TO COMMENCING ANY BLASTING ACTIVITIES	
 FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED; UNCONTAMINATED EXCAVATION DEWATERING; LANDSCAPE IRRIGATION. 	 FOR ANY PROJECT FOR WHICH BLASTING OF BEDROCK IS ANTICIPATED, THE APPLICANT SHALL SUBMIT: A. A BLASTING PLAN THAT IDENTIFIES: a. WHERE THE BLASTING ACTIVITIES ARE ANTICIPATED TO OCCUR; 	NOTE
WASTE DISPOSAL: 1. WASTE MATERIAL: A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL	 b. THE ESTIMATED QUANTITY OF BLAST ROCK IN CUBIC YARDS; AND c. SITE-SPECIFIC BLASTING BEST MANAGEMENT PRACTICES. 3. IF MORE THAN 5000 CUBIC YARDS OF BLAST ROCK WILL BE GENERATED AND THERE ARE ONE OR MORE 	1. SII 2. SII 3. WH
TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER; B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE; C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE	PUBLIC DRINKING WATER WELLS WITHIN 2000 FEET OF THE BLASTING ACTIVITIES, A PLAN TO MONITOR GROUNDWATER TO DETECT ANY CONTAMINATION IN SUFFICIENT TIME TO PROTECT THE WATER SUPPLY WELLS SHALL BE PROVIDED TO THE NHDES. THE GROUNDWATER MONITORING PLAN SHALL INCLUDE:	4. SII
DISPOSAL BY THE SUPERINTENDENT. 2. HAZARDOUS WASTE: A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL	 A. MONITORING FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA: a. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY THE 	
OR STATE REGULATION OR BY THE MANUFACTURER; B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT. 3. SANITARY WASTE:	NHDES. B. THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH: a. LOADING PRACTICES - THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:	
 A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. SPILL PREVENTION: 	 INVIRONMENTAL EFFECTS SHALL BE FOLLOWED: DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS; 	EXCAVATION -
 SPILL PREVENTION: CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW. 	 ii. EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL; 	STORAGE 3:1 MAX. SLOPE
 THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF: 	 iii. SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL; 	SIDE SLOPES TO BE STABILIZED
 A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION: a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE; 	 iv. LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED; 	
 b. ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE; 	 V. LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT; 	NOTES:
c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED; d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF	vi. EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN DISE NEED TO BE ATTENDED TO	1. THE TRAP SHAL 2. THE MAXIMUM 3. THE MINIMUM \

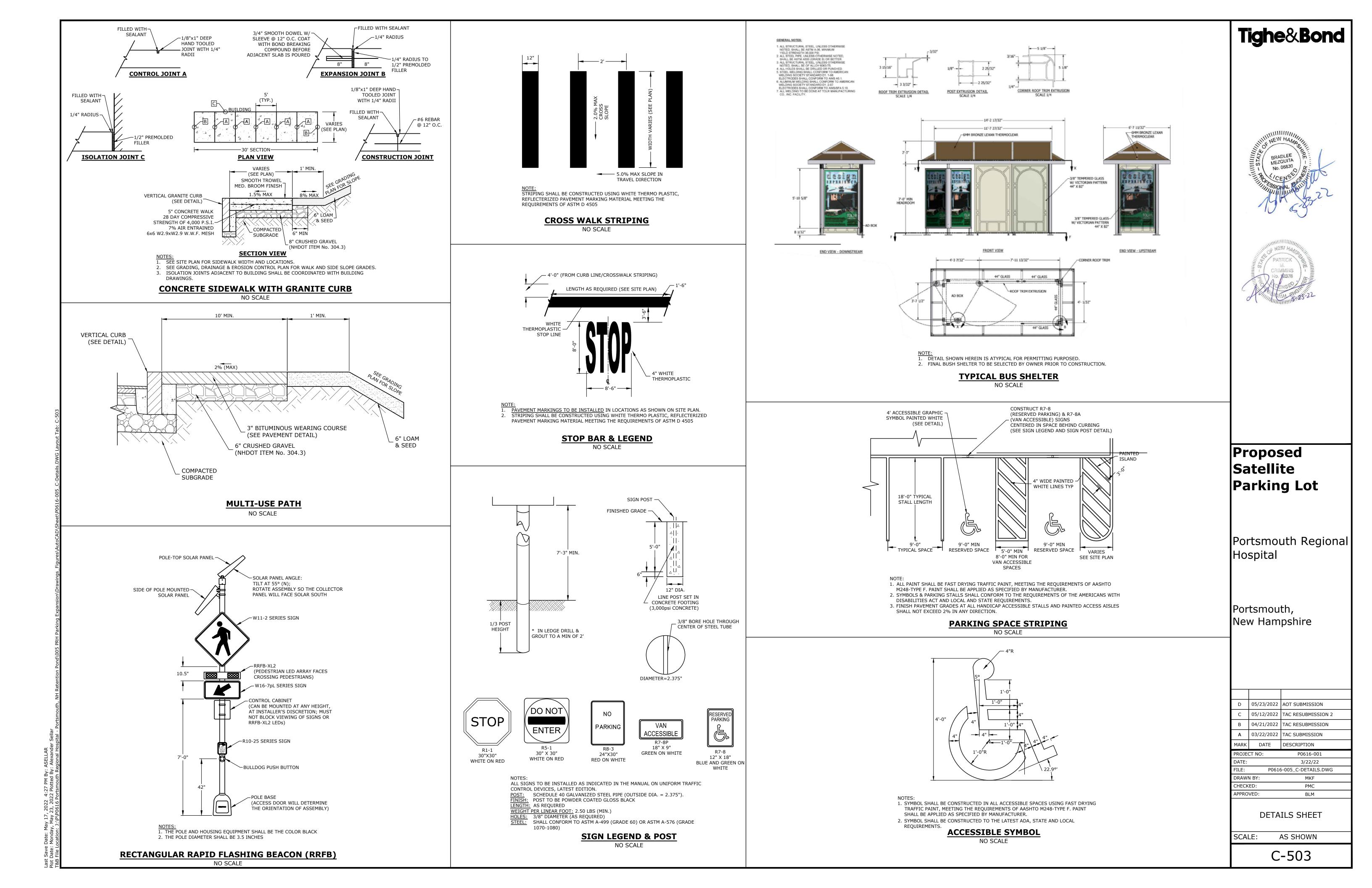
- b. EXPLOSIVE SELECTION THE FOLLOWING BMPS SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:

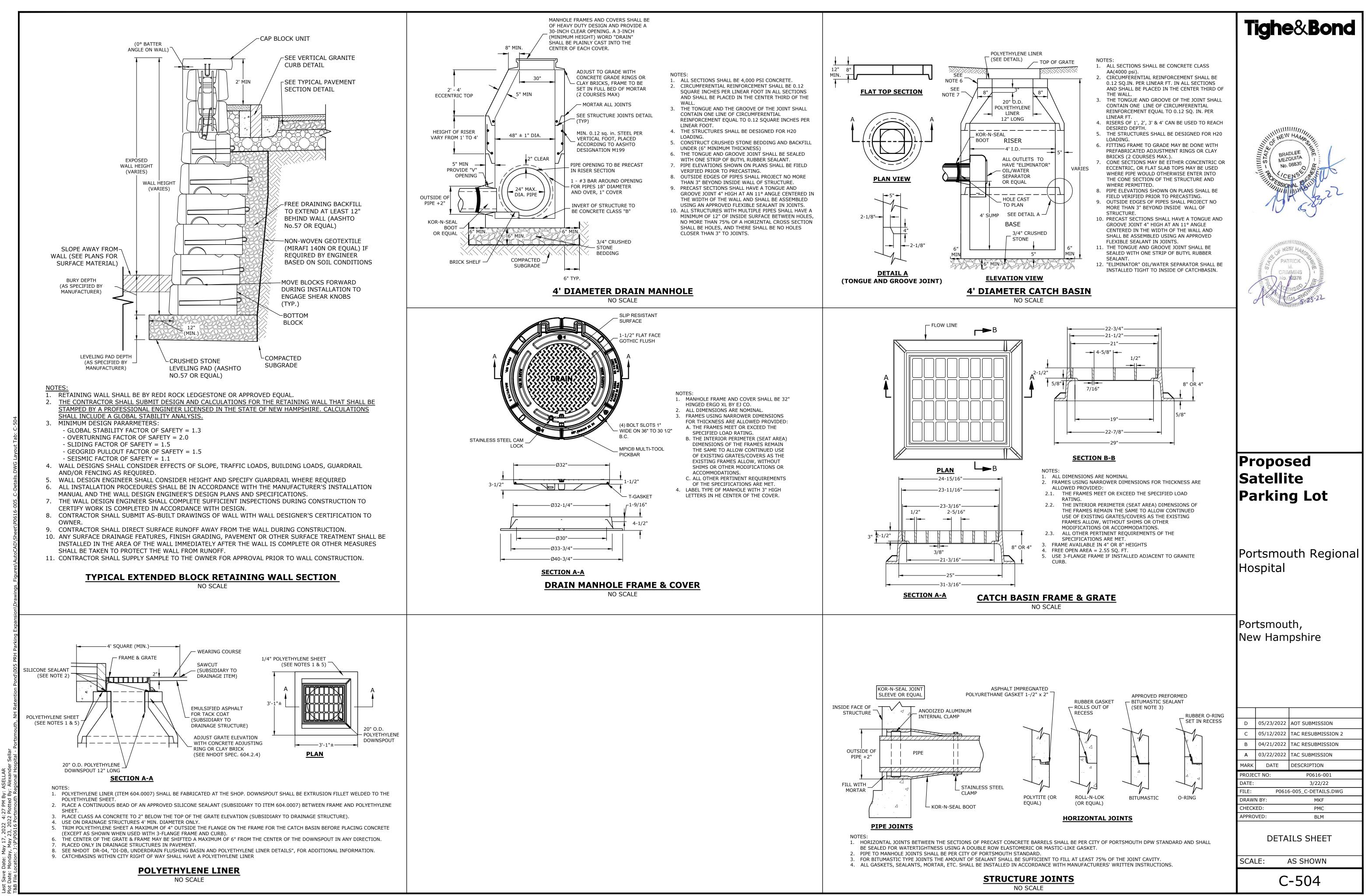
STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.

- i. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION;
- ii. EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER

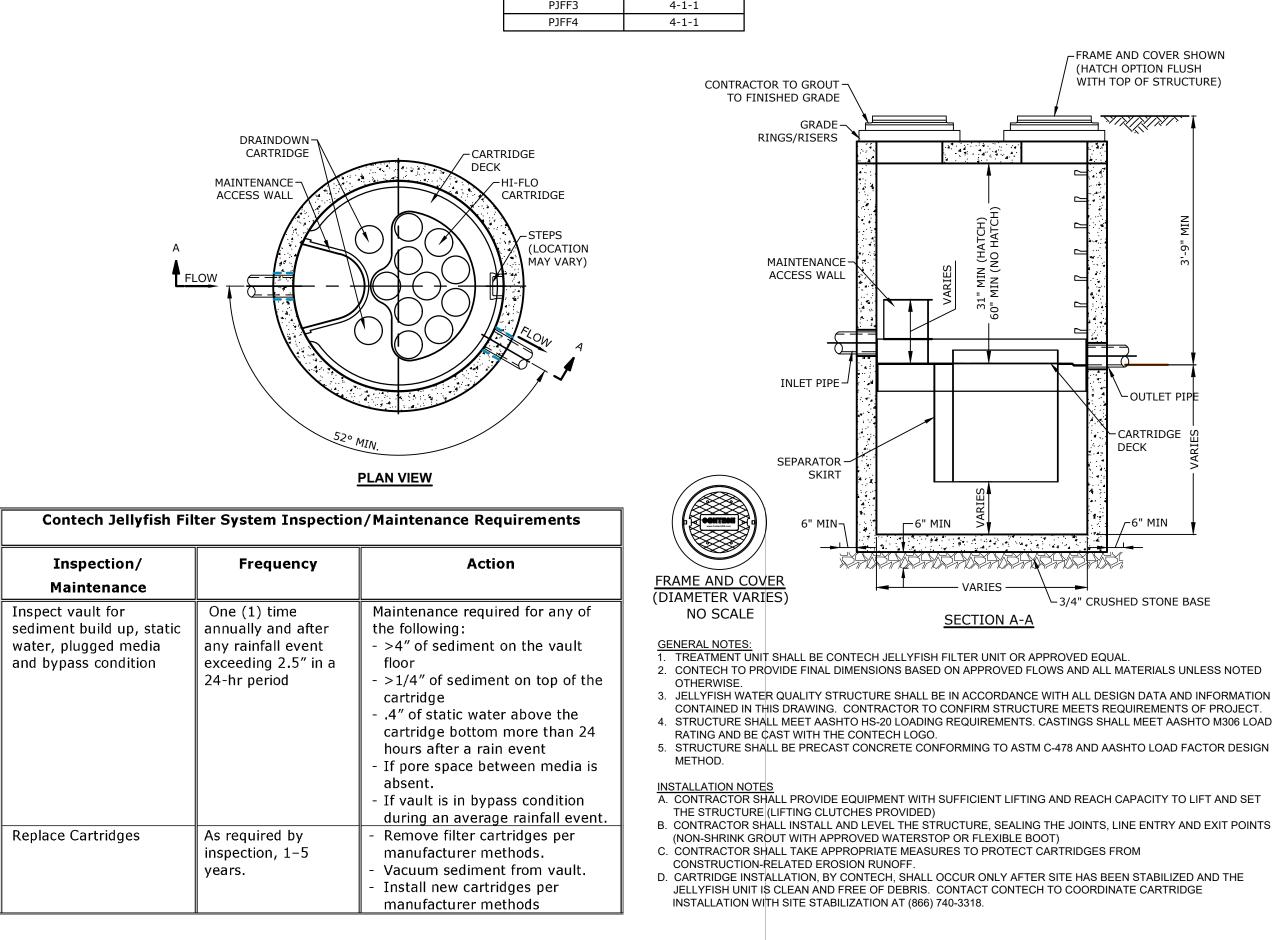






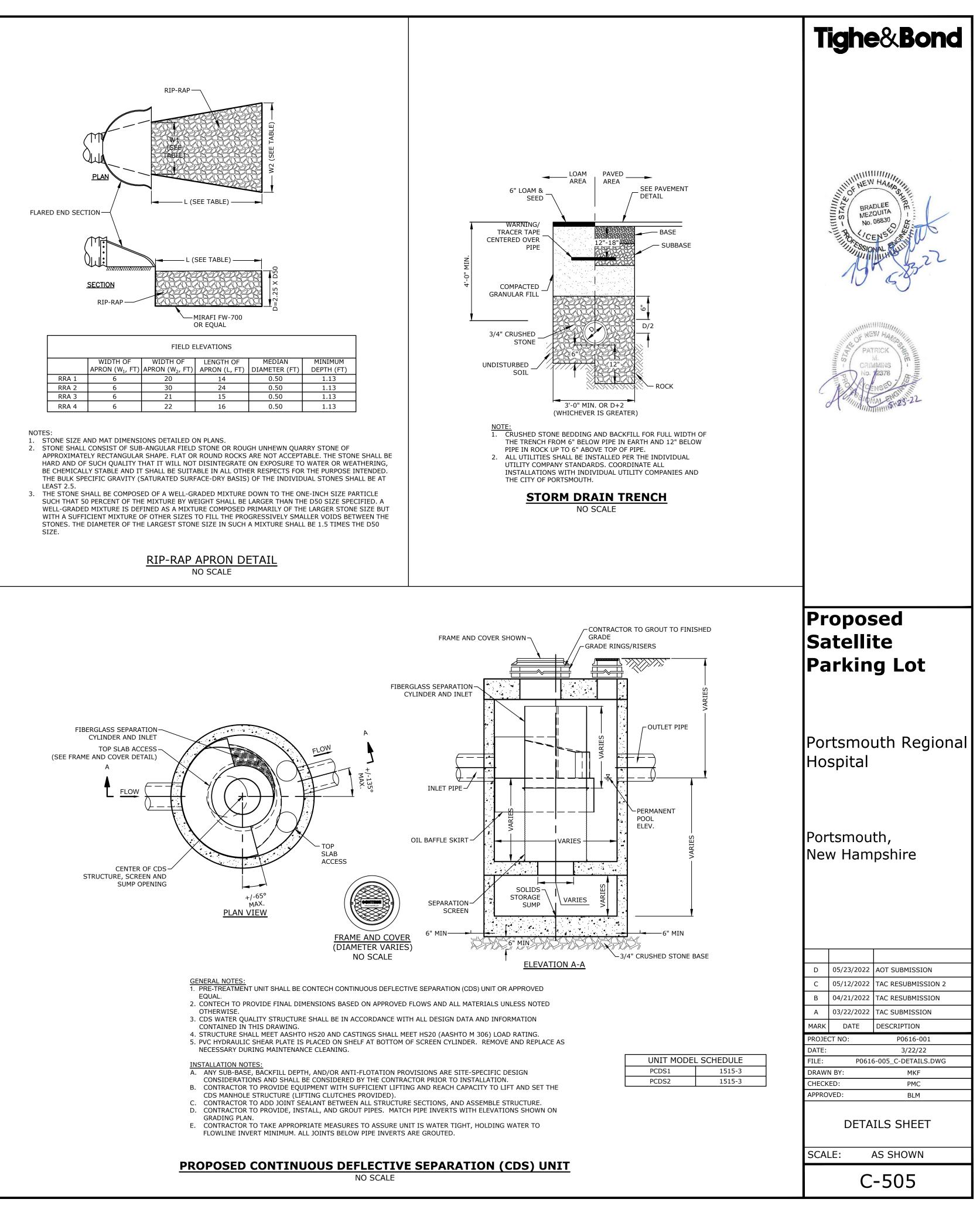


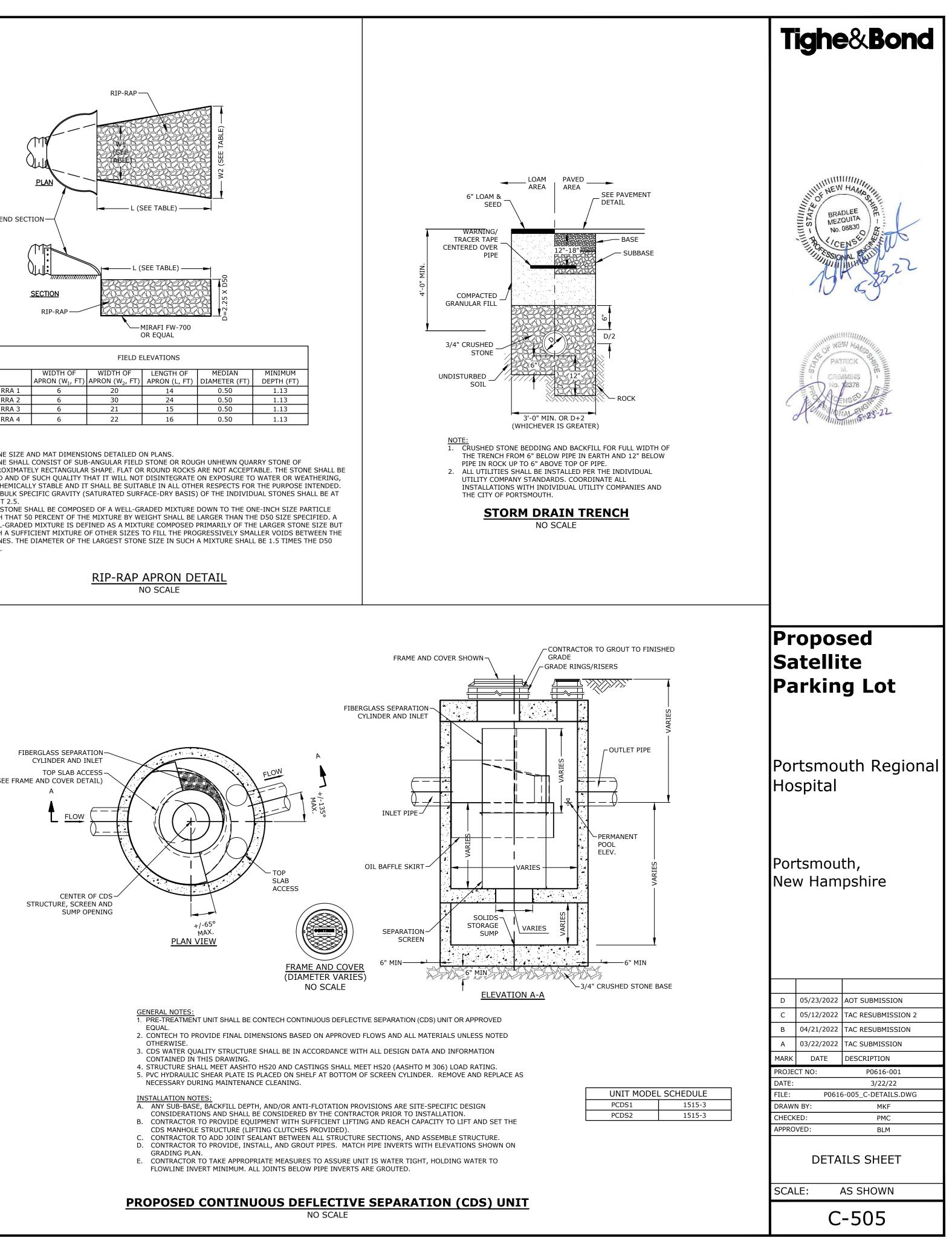
UNIT MODEL SCHEDULE				
PJFF1	4-1-1			
PJFF2	4-2-1			
PJFF3	4-1-1			
PJFF4	4-1-1			

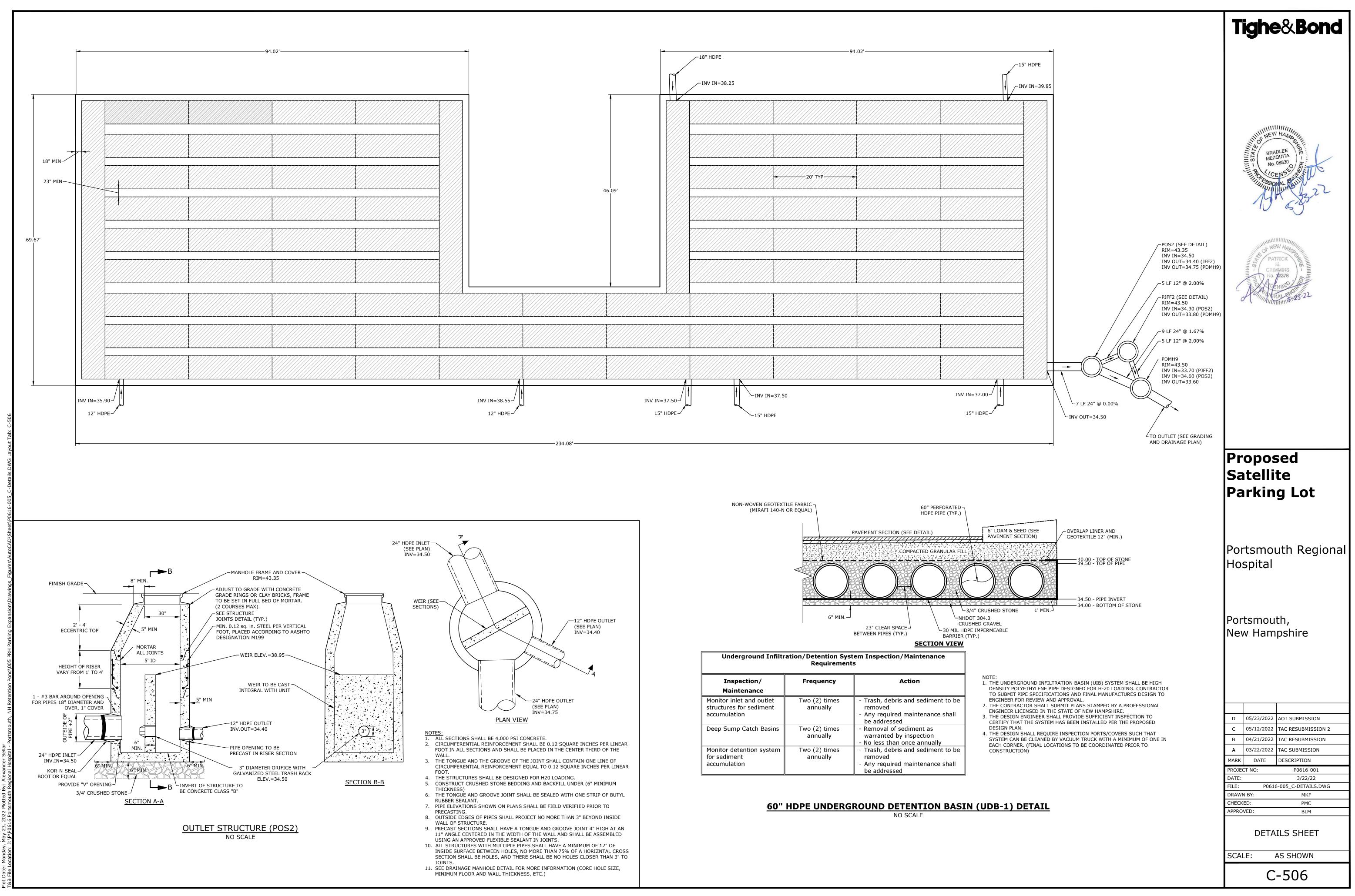


PROPOSED CIRCULAR JELLYFISH FILTER (JFF) UNIT

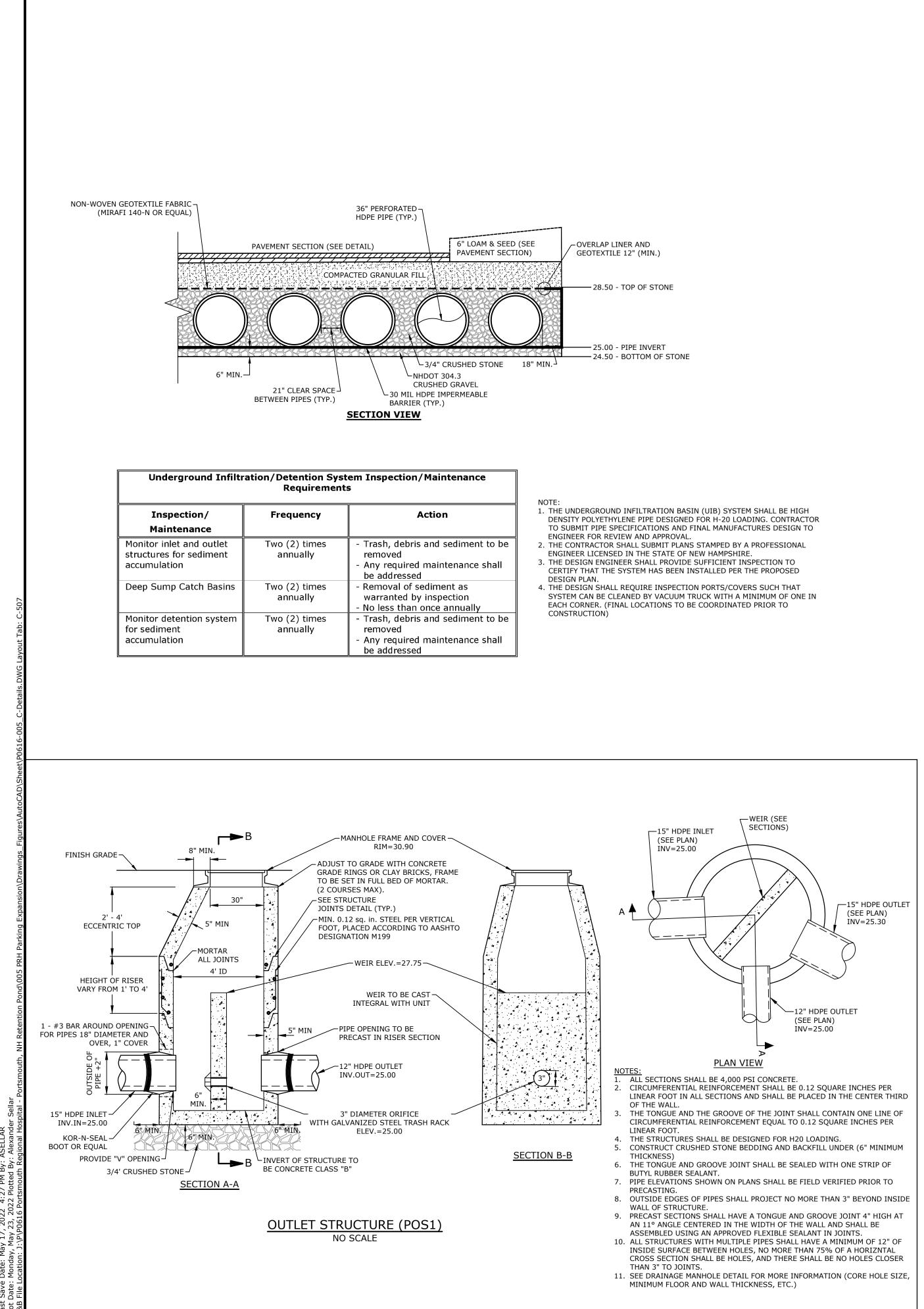
NO SCALE







Inspection/	Frequency	Action	
Maintenance			
Monitor inlet and outlet structures for sediment accumulation	Two (2) times annually	 Trash, debris and sediment to be removed Any required maintenance shall be addressed 	
Deep Sump Catch Basins	Two (2) times annually	 Removal of sediment as warranted by inspection No less than once annually 	
Monitor detention system for sediment accumulation	Two (2) times annually	 Trash, debris and sediment to be removed Any required maintenance shall be addressed 	

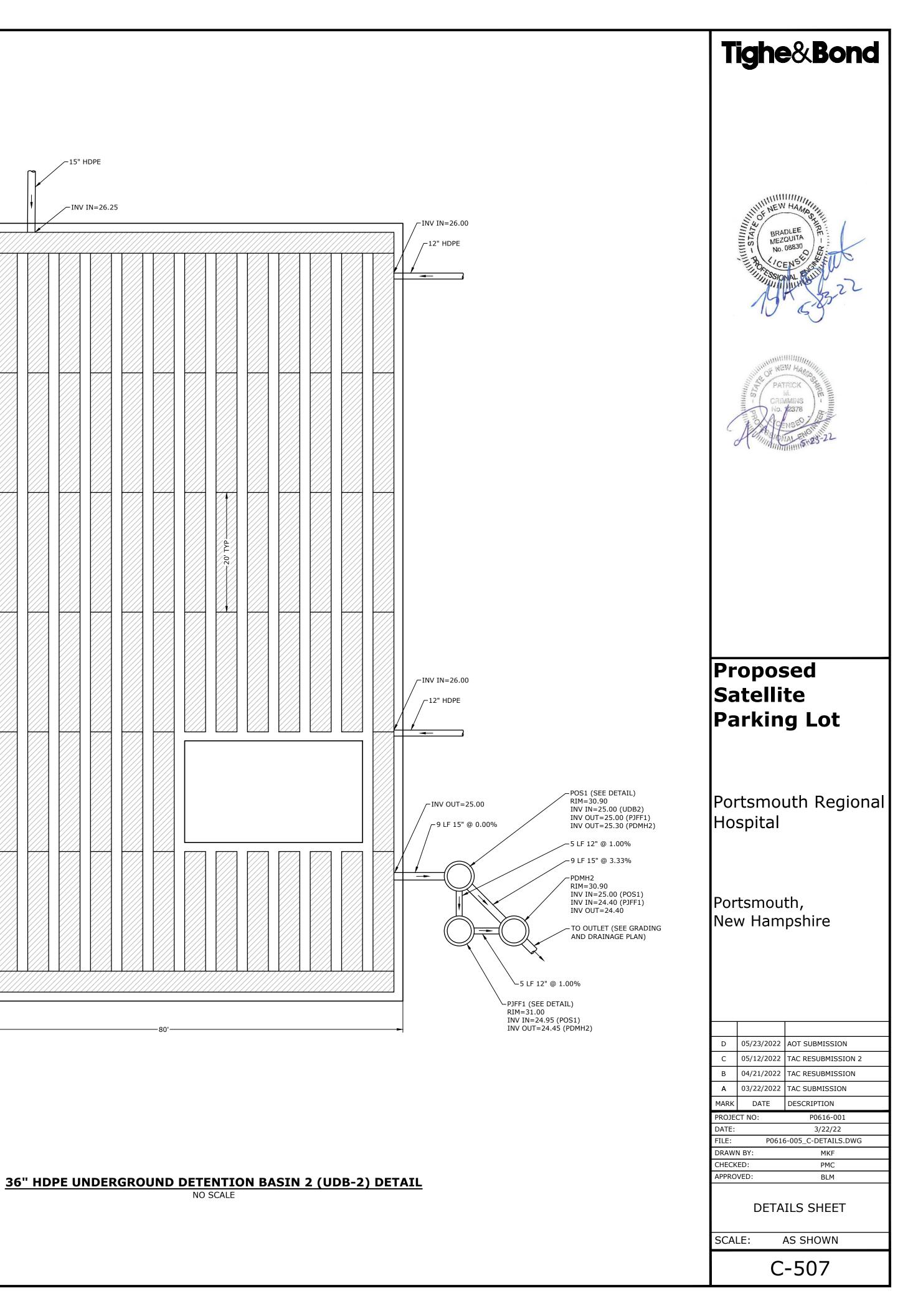


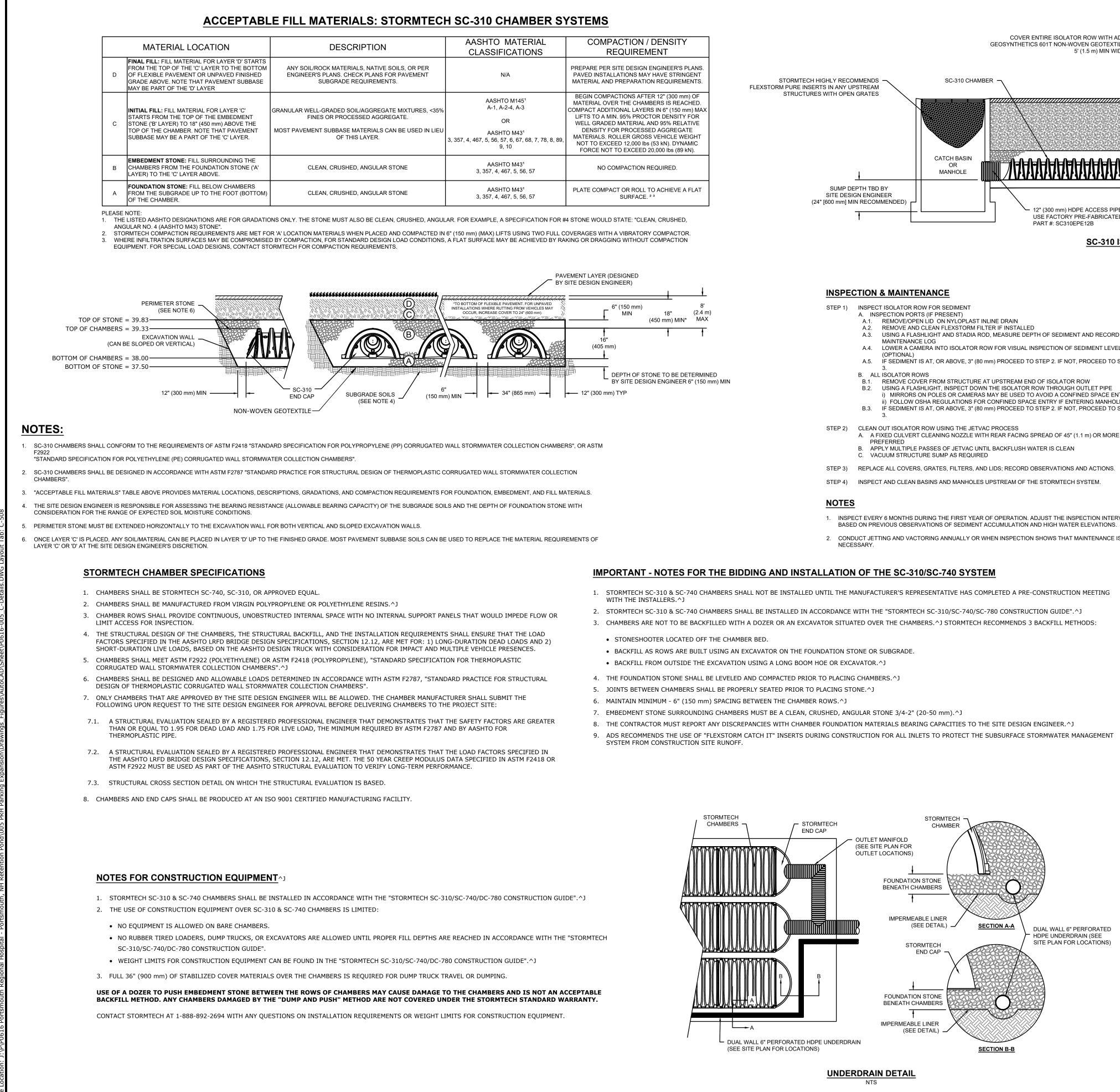
-INV IN=26.25

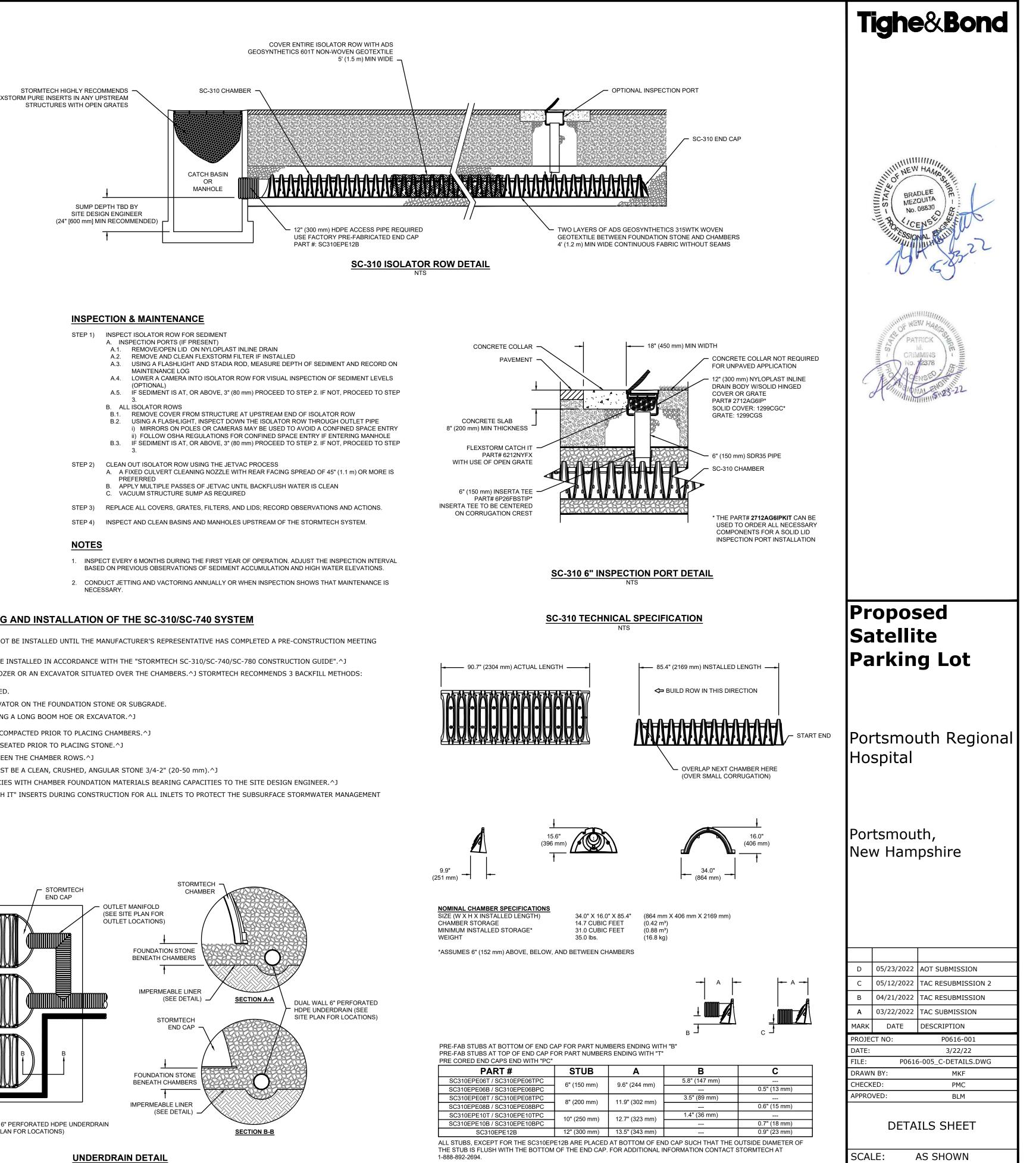
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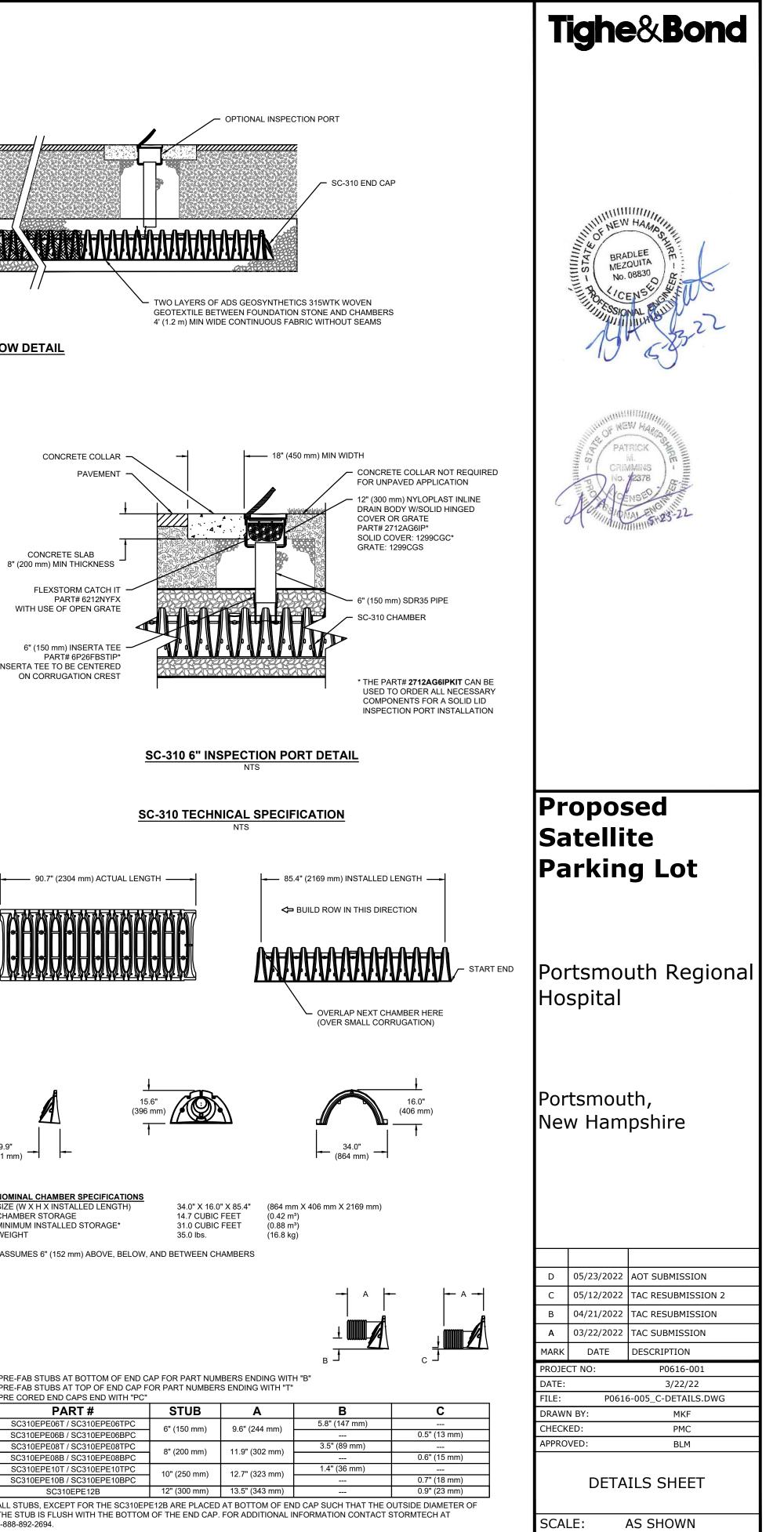
21" MIN-

18" MIN-

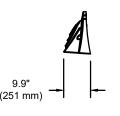




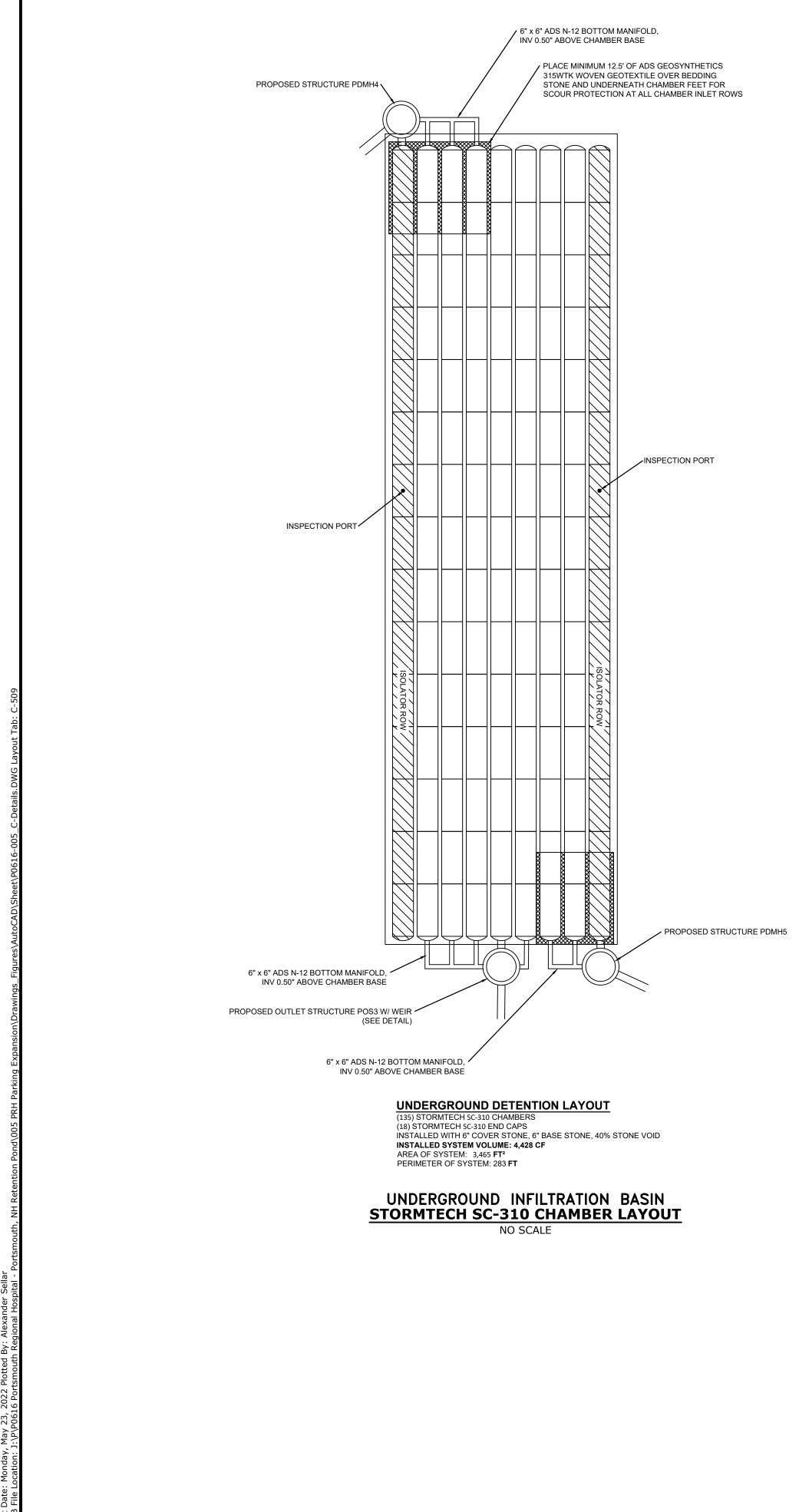


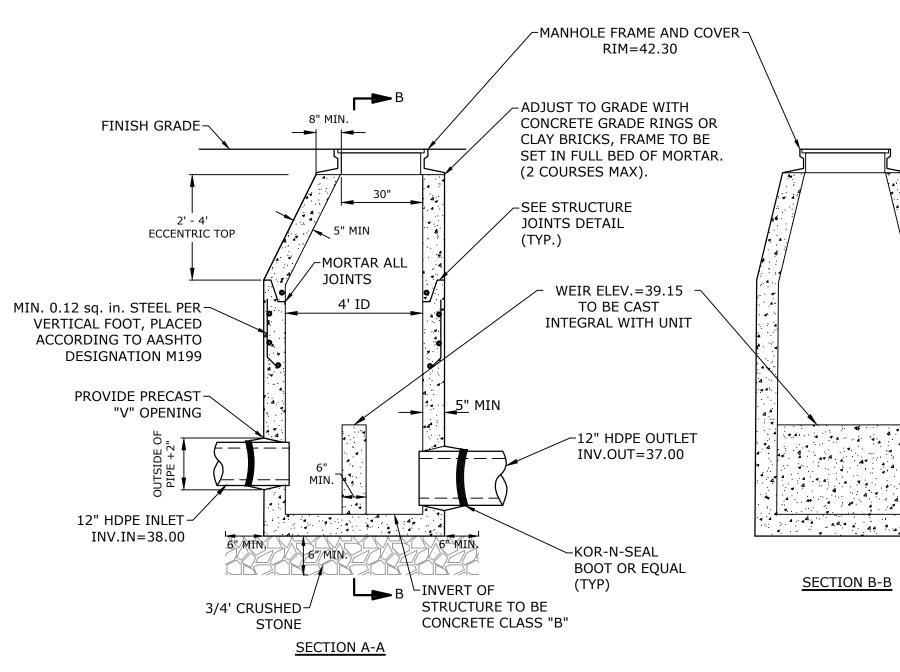


C-508



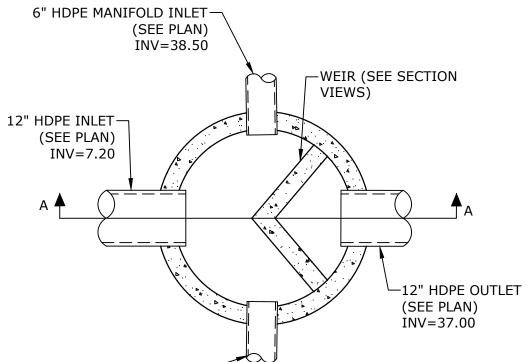
* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL





. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.

- 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
- 3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
- 4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING. 5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM
- THICKNESS)
- 6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL
- RUBBER SEALANT. 7. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO
- PRECASTING.
- 8. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
- 9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
- 10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
- 11. SEE DRAINAGE MANHOLE DETAIL FOR MORE INFORMATION (CORE HOLE SIZE, MINIMUM FLOOR AND WALL THICKNESS, ETC.)



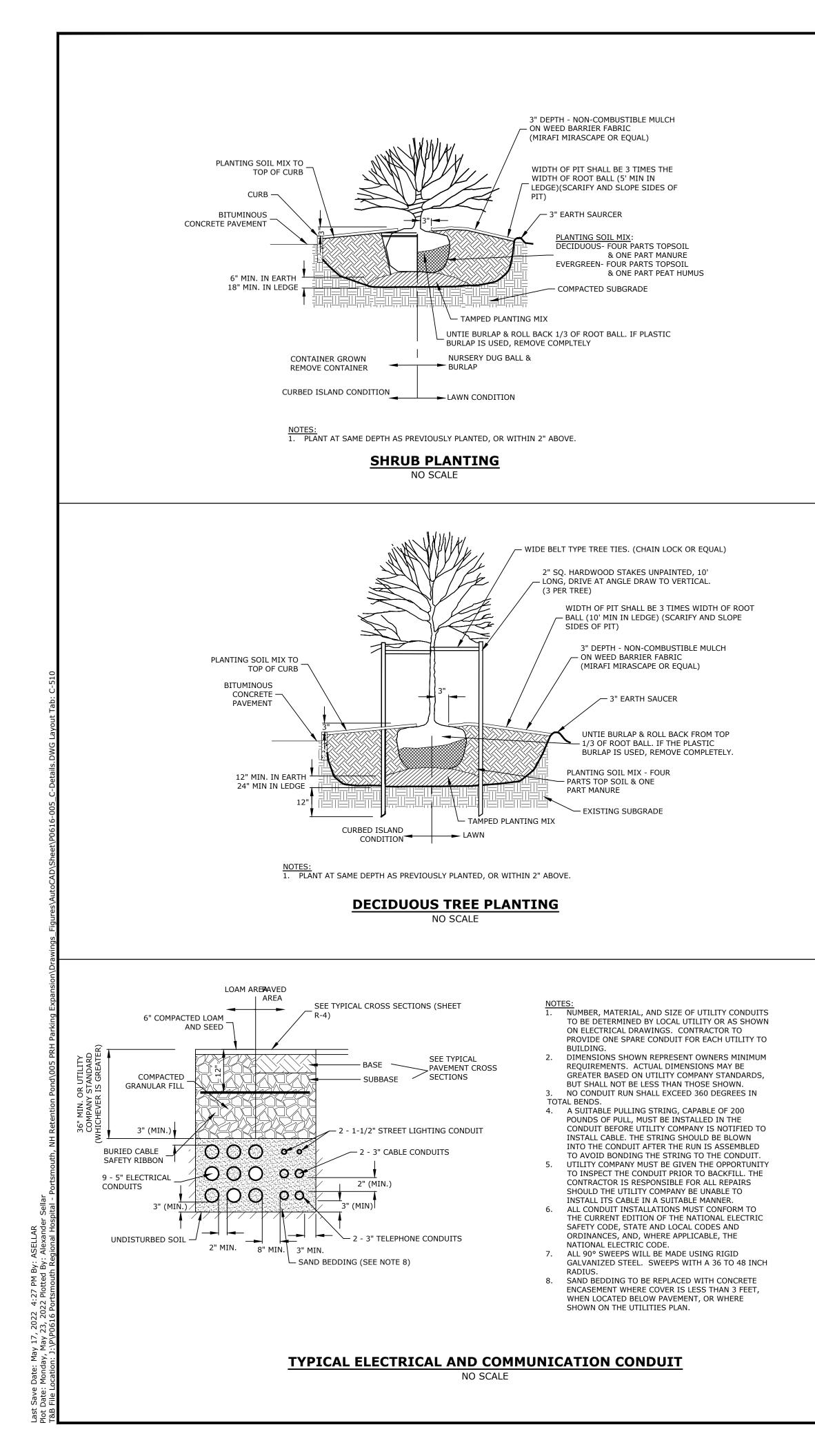
6" HDPE MANIFOLD INLET (SEE PLAN) INV=38.50

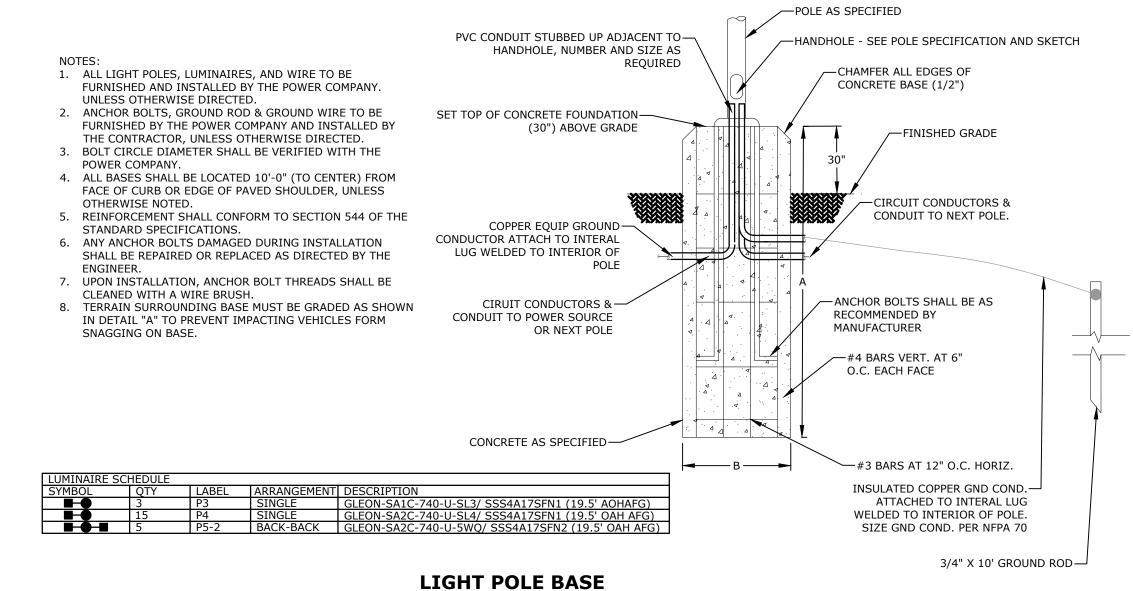
<u>PLAN VIEW</u>

OUTLET STRUCTURE DETAIL (POS3) NO SCALE

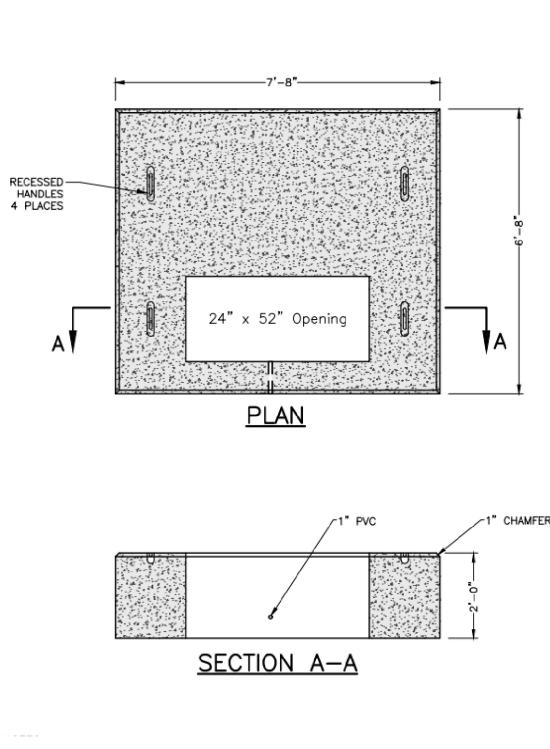








NO SCALE



NOTES

1. DIMENSIONS SHOWN REPRESENT TYPICAL REQUIREMENTS. MANHOLE LOCATIONS AND REQUIREMENTS SHALL BE

COORDINATED WITH EVERSOURCE PRIOR TO CONSTRUCTION 2. CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS

3. STEEL REINFORCEMENT - ASTM A615, GRADE 60

4. PAD MEETS OR EXCEEDS EVERSOURCE SPECIFICATIONS

3-PHASE TRANSFORMER PAD

NO SCALE

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