

APPENDIX 17 NHDOT Applications



April 4, 2016

Commissioner Victoria Sheehan N. H. Department of Transportation John O. Morton Building 7 Hazen Drive Concord, NH 03302-0483

Dear Commissioner Sheehan:

The Public Service Company of New Hampshire d/b/a Eversource Energy (PSNH), petitions for permission to install an electric transmission line, including related conduit, cable, wires, poles, structures and devices across, over and along certain state highways pursuant to RSA 231:160 as detailed in this document. Accordingly, PSNH requests issuance of a Use and Occupancy Agreement, appropriate licenses and permissions authorizing the proposed use.

The N.H. Department of Transportation (NHDOT) has jurisdiction and authority to grant this Petition and such permits, agreements, licenses and approvals necessary for state-maintained highways pursuant to RSA 231:161, I (c). The NHDOT adopted a *Utility Accommodation Manual* (Hereinafter UAM), dated February 24, 2010 to guide its process for accommodating and licensing utilities within highway corridors.

Consistent with commonly accepted design and construction realities, an appropriate traffic control plan, fully compliant with the *Manual on Uniform Traffic Control Devices* (MUTCD), is included in the appendices as required in UAM Section V and Section XV, A, d, 1 to ensure all work performed will be conducted in manner to protect the public. Any and all necessary highway access (driveway) permits will be submitted for review and approval as necessary in advance of construction.

PROJECT DESCRIPTION

The Seacoast Reliability Project (Project) consists of a new 115-kV electric transmission line along with modifications for the line terminals. The Project will primarily consist of overhead design and will run approximately 12.9 miles from the Madbury Substation to the Portsmouth Substation. The line crosses the towns of Madbury, Durham and Newington and the city of Portsmouth. Approximately 1.1 miles of the Project will require a submarine cable crossing of Little Bay (Durham, NH to Newington, NH). Underground electric cable will be utilized for 0.4 miles at UNH in Durham and 0.3 miles through Gundalow Landing in Newington.



Madbury

The entire section of the Project through Madbury will be overhead, utilizing self-weathering steel monopole structures.

Durham

The Project through Durham will utilize the existing distribution ROW and a portion of expanded right of way along the existing corridor, from Madbury Road to the UNH Campus. The majority of the line will consist of an aerial installation constructed on self-weathering steel monopole structures with some H-frame structures. A short section of the transmission line (approximately 0.4 miles) will be placed underground to cross under Main Street, which is a municipally maintained Class IV Highway.

Little Bay Crossing (Durham to Newington)

Little Bay will be crossed utilizing submarine cable, placed in the sea floor within an existing, mapped cable corridor. On the west side of Little Bay (Durham), the submarine cables will terminate on a transition structure in the existing right of way, approximately 360 feet from the edge of the bay. On the east side of Little Bay (Newington), the submarine cable will terminate in a man-hole approximately 250 ft. from the edge of the bay. From the man-hole, the underground cable continues through Gundalow Landing, terminating on a transition structure on the east side of Little Bay Road in the existing distribution ROW.

Newington

Once the Project has transitioned to overhead, it will be constructed in the existing distribution ROW. The section from Little Bay Road to Fox Point Road will utilize self-weathering steel monopole and H-frame structures.

The section of the transmission line from Fox Point Road to the Spaulding Turnpike will utilize self-weathering steel monopole structures. From Spaulding Turnpike through the area of the Newington Mall, five existing H-frame structures will require relocation and rebuilding to make room for the new line within the existing transmission corridor. The new and relocation construction will utilize self-weathering steel monopole structures.

Portsmouth

The Project will travel a short distance in the city of Portsmouth within existing transmission corridor, on PSNH property, from the Newington town line to Portsmouth Substation, near Schiller Station. The newline will be constructed utilizing self-weathering steel structures with a monopole design.



AERIAL ROAD CROSSINGS

Construction of the above described PSNH Project requires permission from the Department of Transportation for 7 aerial crossings over state maintained highways. This correspondence constitutes notice of these proposed crossings and locations in accordance with the procedures set forth in the UAM Appendix G, Detail G2; Pole Licensing Procedures Step-by-Step. The highways to be crossed include: Madbury Road in Madbury, NH Route 4 in Durham, NH Route 108 in Durham, newly constructed access ramps to the Spaulding Turnpike in Newington, the Spaulding Turnpike mainline in Newington and Woodbury Avenue in Newington. General plans and specific aerial crossing design plans for each crossing including location and height above the highway surface are found in Attachment A. Additionally, traffic control plans consistent with the Manual on Uniform Traffic Control Devices (MUTCD) are included in Attachment D for review and approval by the Department as required in UAM Section V and Section XV, A, d, 1.

The transmission line crossings of Madbury Road and NH Route 4 in Durham are located within NHDOT controlled access right-of-ways (CAROW), which were laid out in accordance with RSA 230:45. Additionally, NH Route 16 (Spaulding Turnpike) in Newington is a limited access highway (LAROW) per RSA 237:13. As such, all locations are treated as LAROW for the purposes of the Utility Accommodation Manual (UAM) Section XIII, A, 1.

Therefore, PSNH requests a Use and Occupancy Agreement be granted in accordance with Section XIII, A, 3 for these LAROW crossings. PSNH further requests that permission be granted to cross NH Route 108 in Durham and Woodbury Avenue in Newington.

Presently, it is anticipated that several aerial structures will be placed within the public right of way as shown on the attached plans. In accordance with the UAM Section XVIII, structures will be so located as to pose minimal hazard to highways users. PSNH will petition for pole licenses for these structures with final approval to be issued upon field verification of the final installation as set forth in UAM Section XVIII.

PERMISSION TO CROSS CONTROLLED ACCESS ROW FOR CONSTRUCTION AND MAINTENANCE PURPOSES

As noted above the Project will utilize the existing distribution ROW when traversing Madbury and Durham. Access to the segment of the line that lies between the crossing of the Madbury Road and the crossing of NH Route 4 is restricted. The existing distribution line at this location lies within the railroad ROW, which passes beneath the both state highways. The space between the active rail line and highway bridge abutments is not sufficiently wide enough to allow access for the construction or future maintenance of the proposed transmission line within the ROW from the north or south. Therefore, PSNH is requesting permission be granted via the Use and Occupancy Agreement to cross the Controlled Access ROW of NH Route 4 for the purposes of





accessing the site to construct and maintain the facility. The proposed access will be sited within the stone wall boundaries of an old roadway and proceed from a point off Beech Hill Road to the Transmission line ROW. In accordance with the provisions of RSA 231:184-186 and/or RSA 236:9-11, an Excavation (Trench) Permit application and plan are included in Attachment B.

Consistent with other access roads for the project, clean gravel or trap rock will be placed at 6 to 8 inches in depth to stabilize and level the road surface. An access apron, utilizing crushed stone, will be installed at the entrance to the public road to clean the tires of construction vehicles. To avoid impacting wetlands the access road will be installed in a manner consistent with the NHDRED approved document "Best Management Practices Manual for Utility Maintenance In and Adjacent to Wetlands and Waterbodies in New Hampshire", which was developed by the NH Department of Resource and Economic Development. Additionally, a gate will be installed at the entrance off Beech Hill Road to prevent unauthorized access.

ENCROACHMENT AGREEMENT FOR TEMPORARY ACCESS ACROSS TURNPIKE ROW

In Newington, the Project transmission line will utilize the existing distribution line ROW that lies to the west of the Spaulding Turnpike before crossing the highway just north of Exit 1. Access to construct the proposed structures will be from within the distribution line ROW for most of this segment, however due to the existence of wetlands in the vicinity of the Southbound Exit 1 Off-ramp, PSNH is requesting permission to temporarily access the Project transmission line ROW from the southbound shoulders of the Spaulding Turnpike and Exit 1 Off-ramp at several locations. In accordance with the provisions of RSA 231:184-186 and/or RSA 236:9-11, a Turnpike Encroachment Permit Application is included in Attachment C. Traffic control plans consistent with the Manual on Uniform Traffic Control Devices (MUTCD) are included in Attachment D as required in UAM Section V and Section XV, A, d, 1 to ensure all work performed will be conducted in manner to protect the public.

Based on the foregoing, PSNH asserts that approval of this Petition is in the public good and should be granted in accordance with N.H. law.

Sincerely,

Kurt I. Nelson

Specialist, Project Siting & Permitting

Cc: Michael P. Pillsbury, PE, Louis Berger



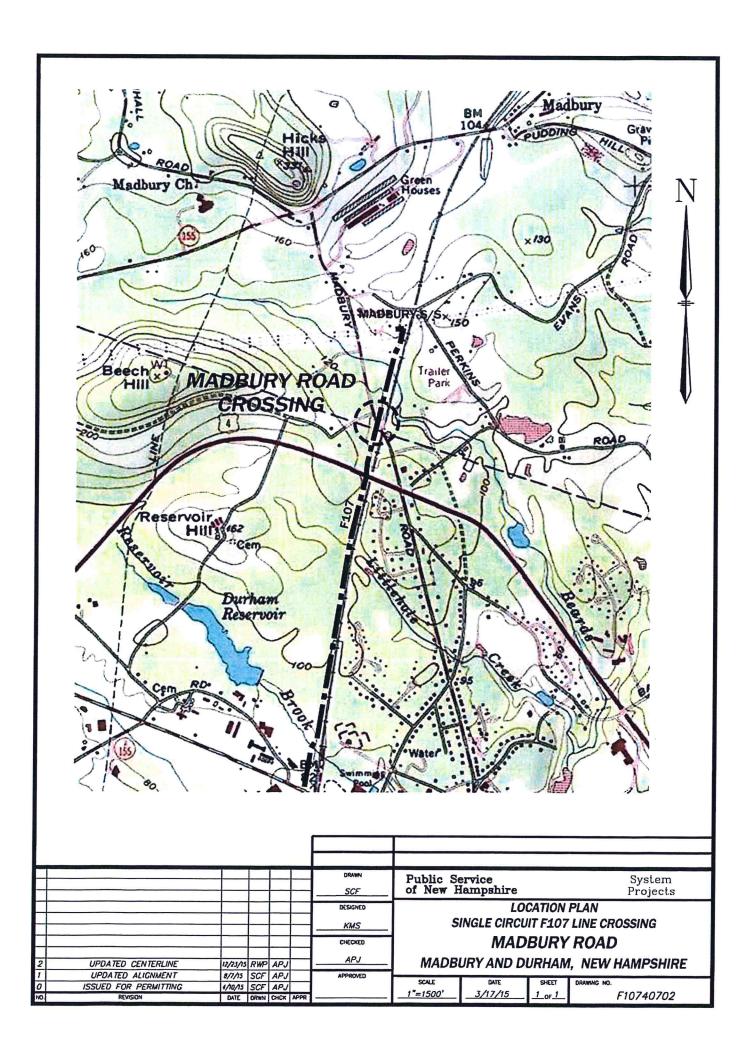
ATTACHMENT A

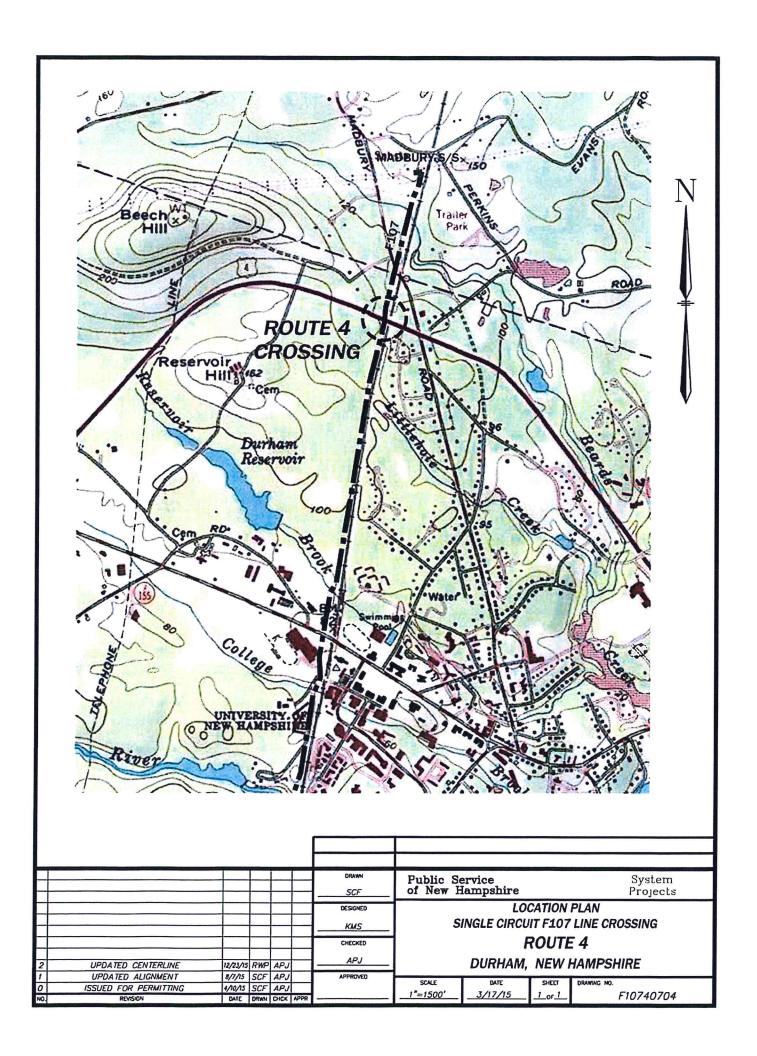
LIST OF AERIAL CROSSINGS OVER STATE HIGHWAYS & AERIAL CROSSING DESIGN PLANS FOR STATE HIGHWAYS

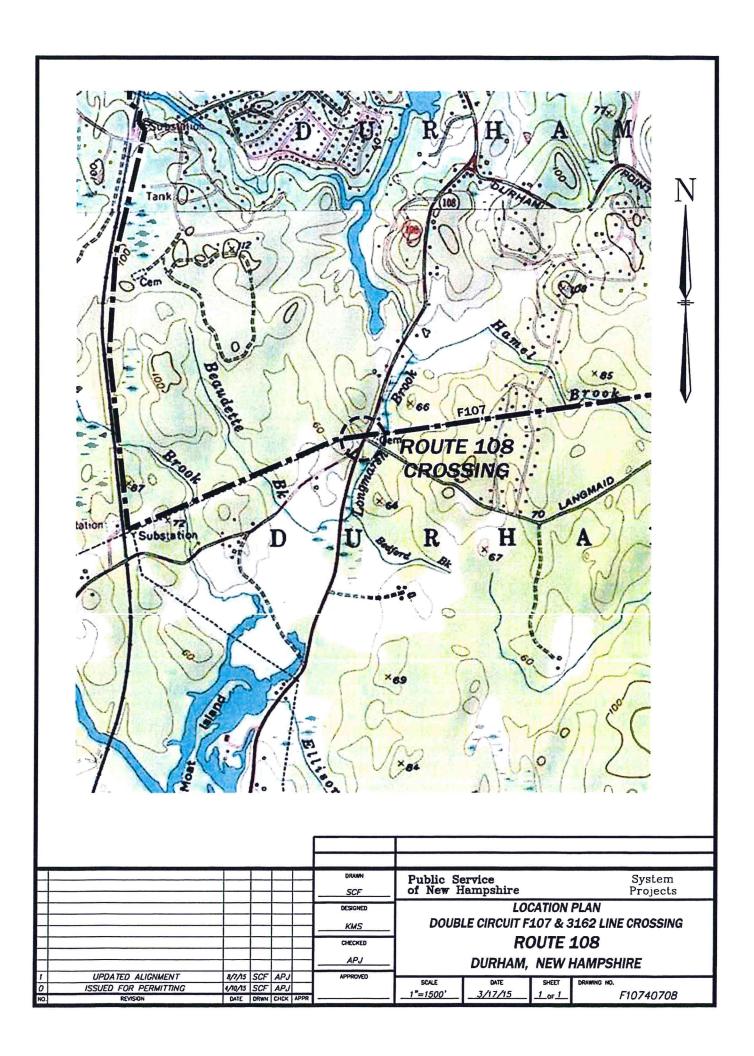
Highway	Town	Highway Classification	Right of Way	Line	Between Structures
Madbury Road	Madbury	II	CAROW	F107	#6* & #7
Route 4	Durham	I	CAROW	F107 & 380	#9* & #10*
Route 108	Newmarket	I	Easement ROW	F107 & 3162	#60 & #61
Spaulding TPK: Ramp 1	Newington	I	LAROW	F107 3850	#123 & #124* #9 & #10*
Spaulding TPK: Ramp 2	Newington	I	LAROW	F107 3850	#125* & #126* #11* & #12*
Spaulding TPK: Mainline	Newington	I	LAROW	F107	#137 & #138
Woodbury Avenue	Newington	II	Easement ROW	F107 E194	#142 & #143 #5 & #6

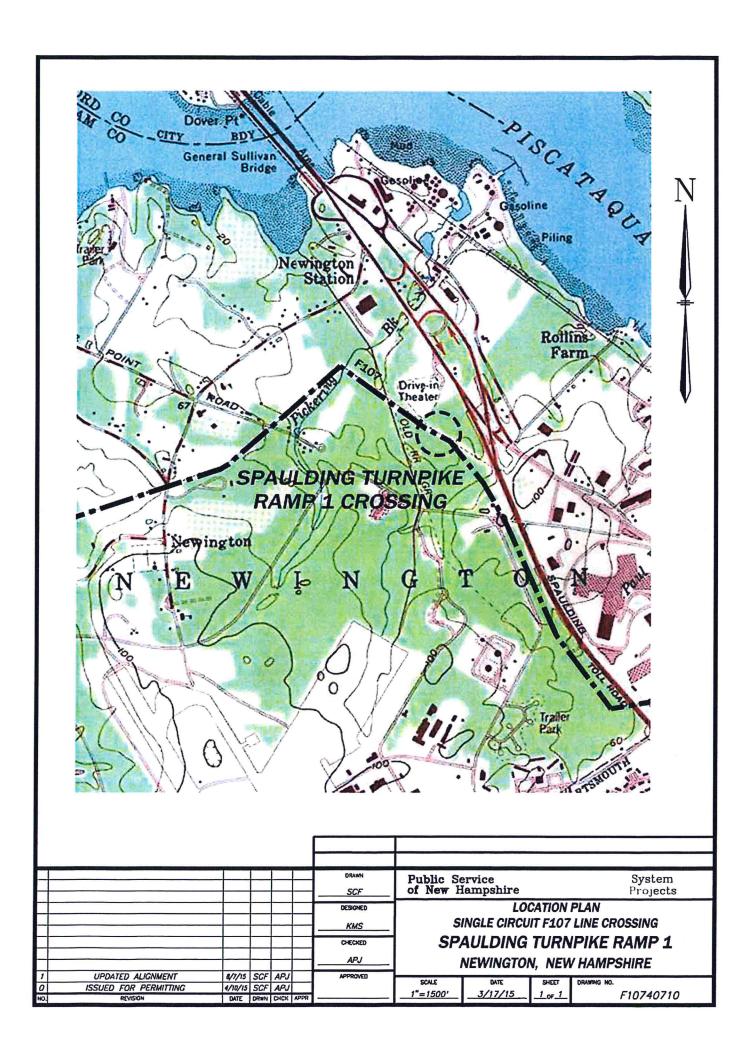
^{*} Note: aerial structures will be placed within the public right of way at these locations

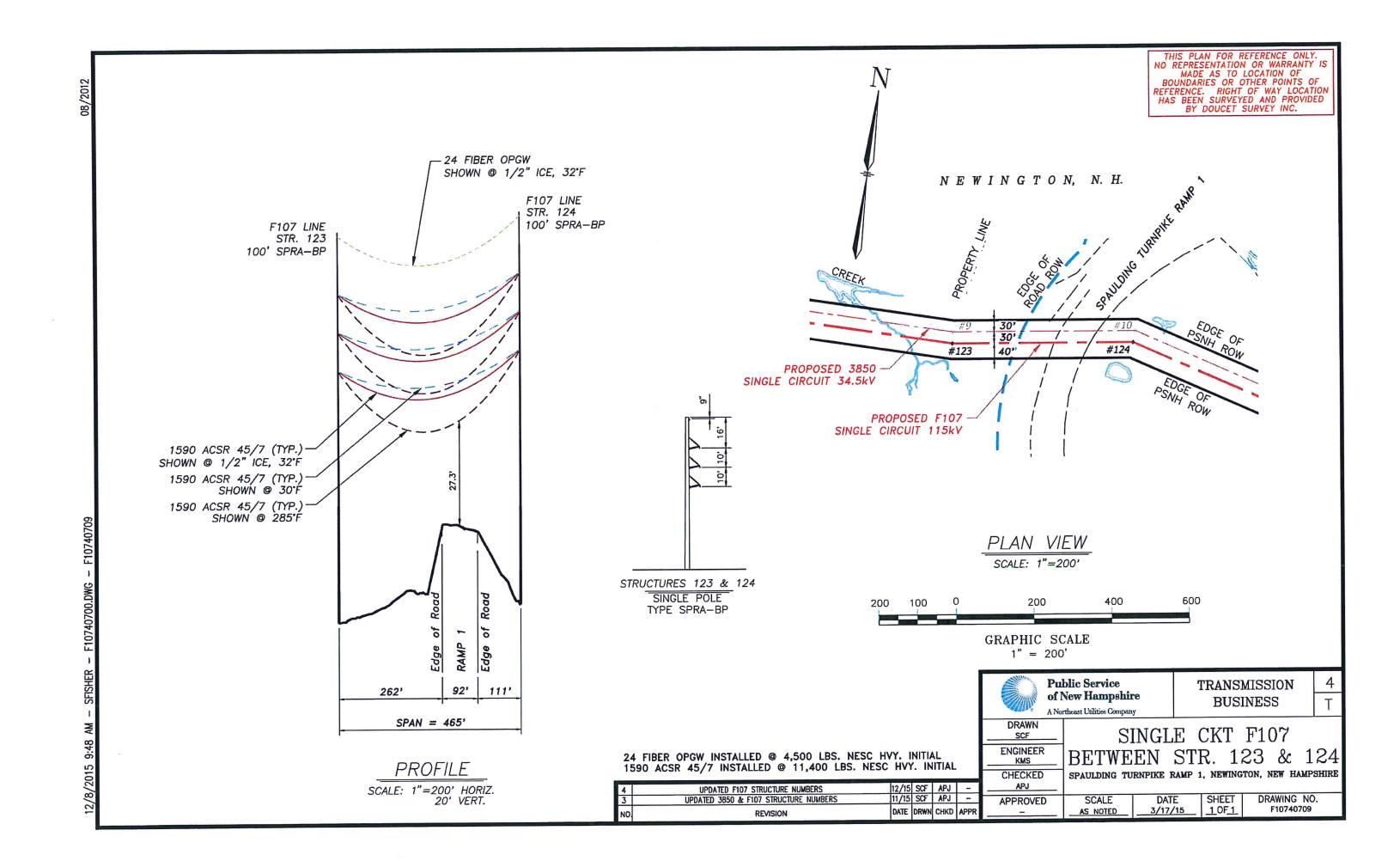
Note: aerial structures F107 #127 & #128 and 3850 #13 & #14 will be placed in the public way but have no aerial crossings over state highways

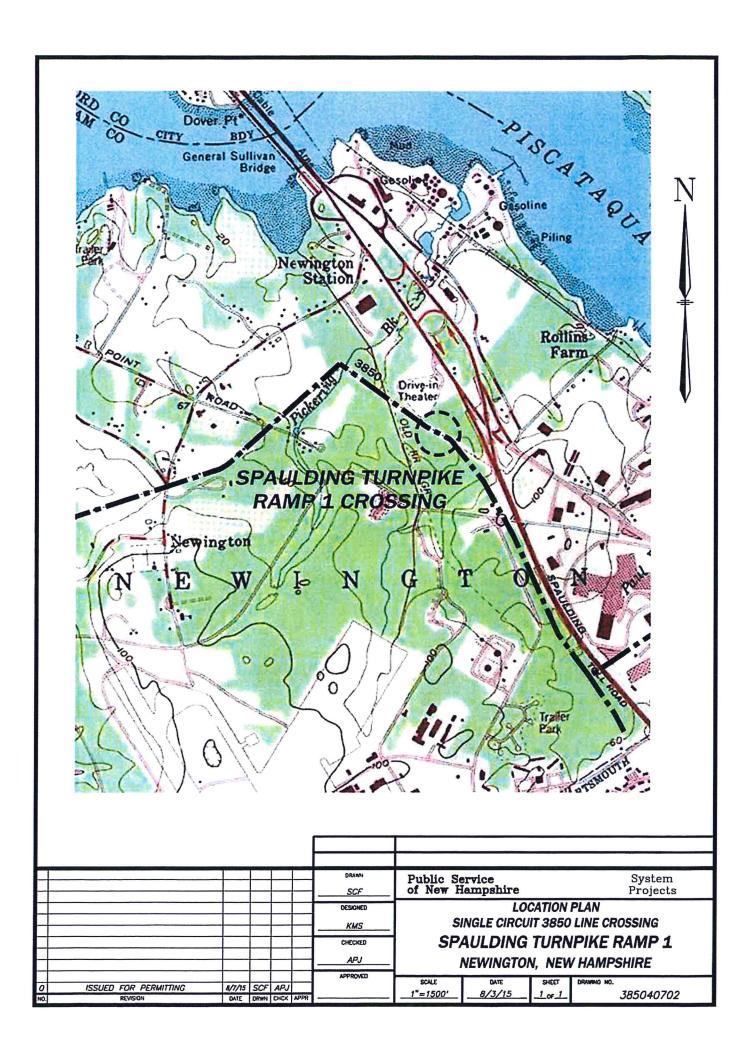


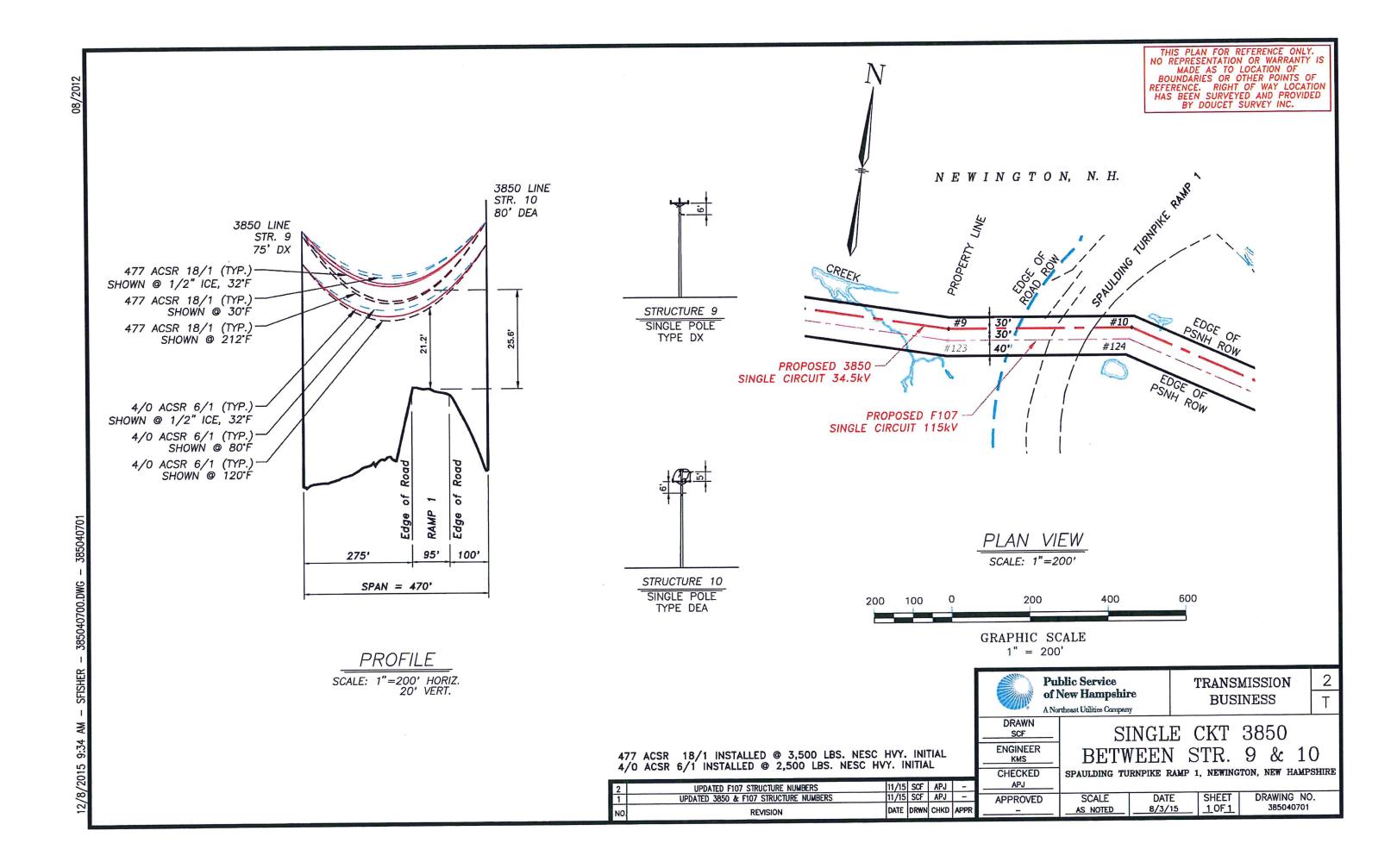


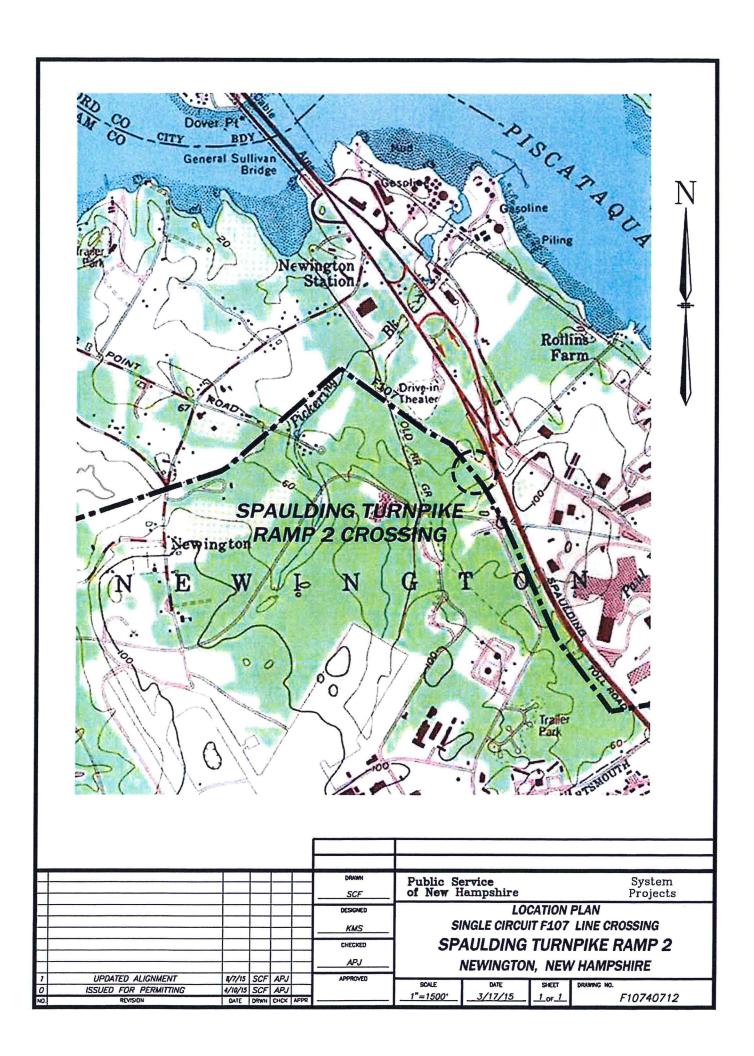


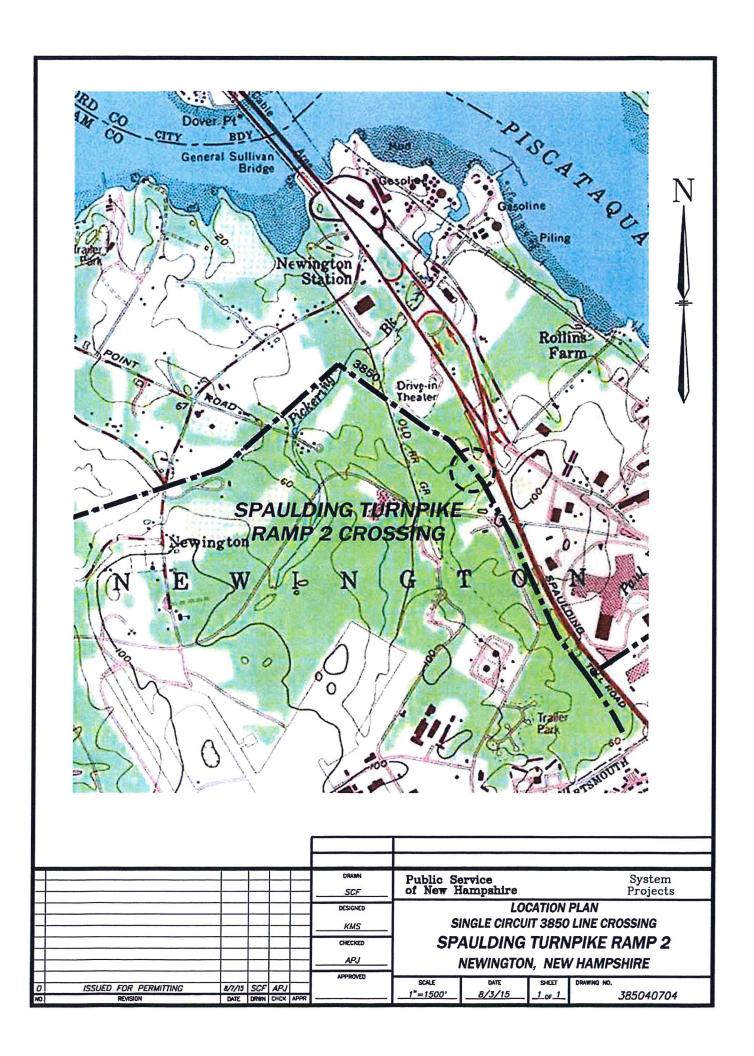


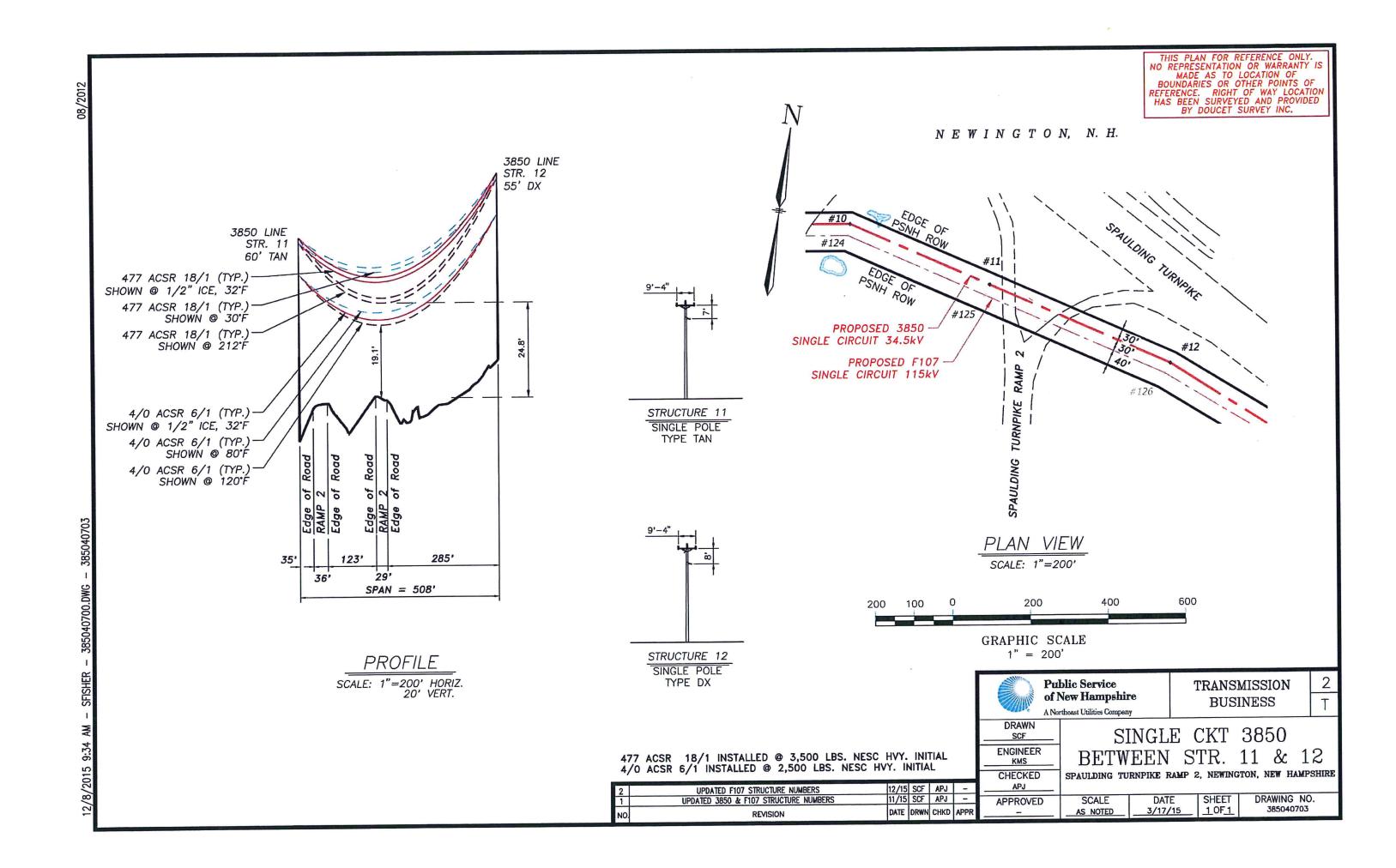


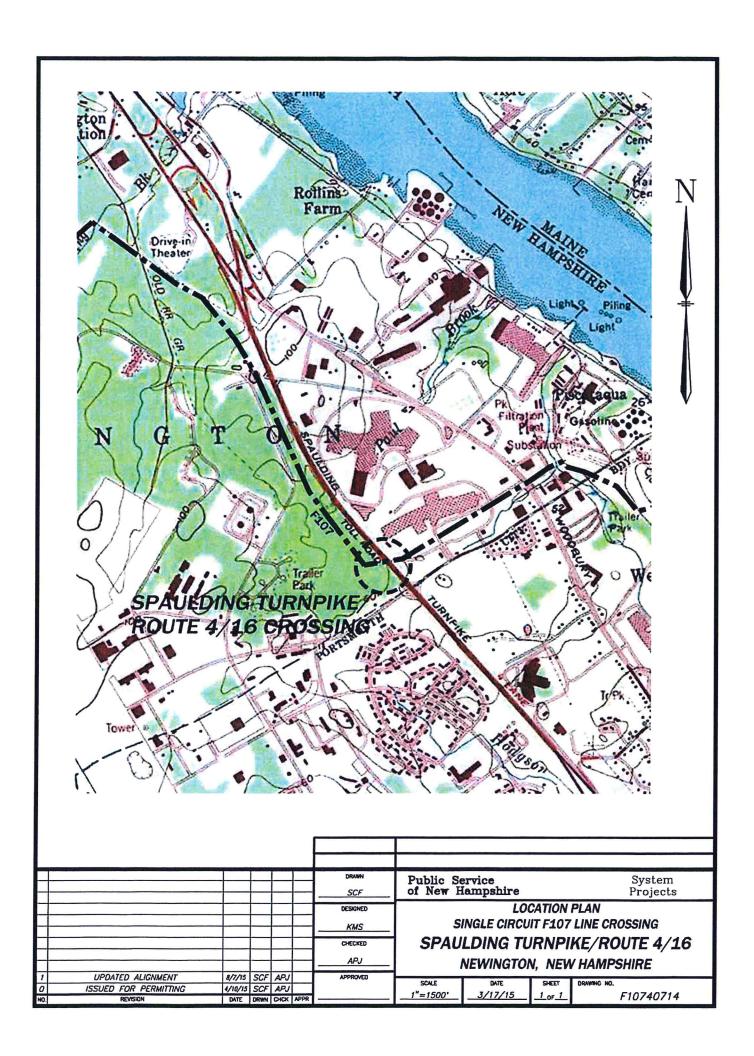


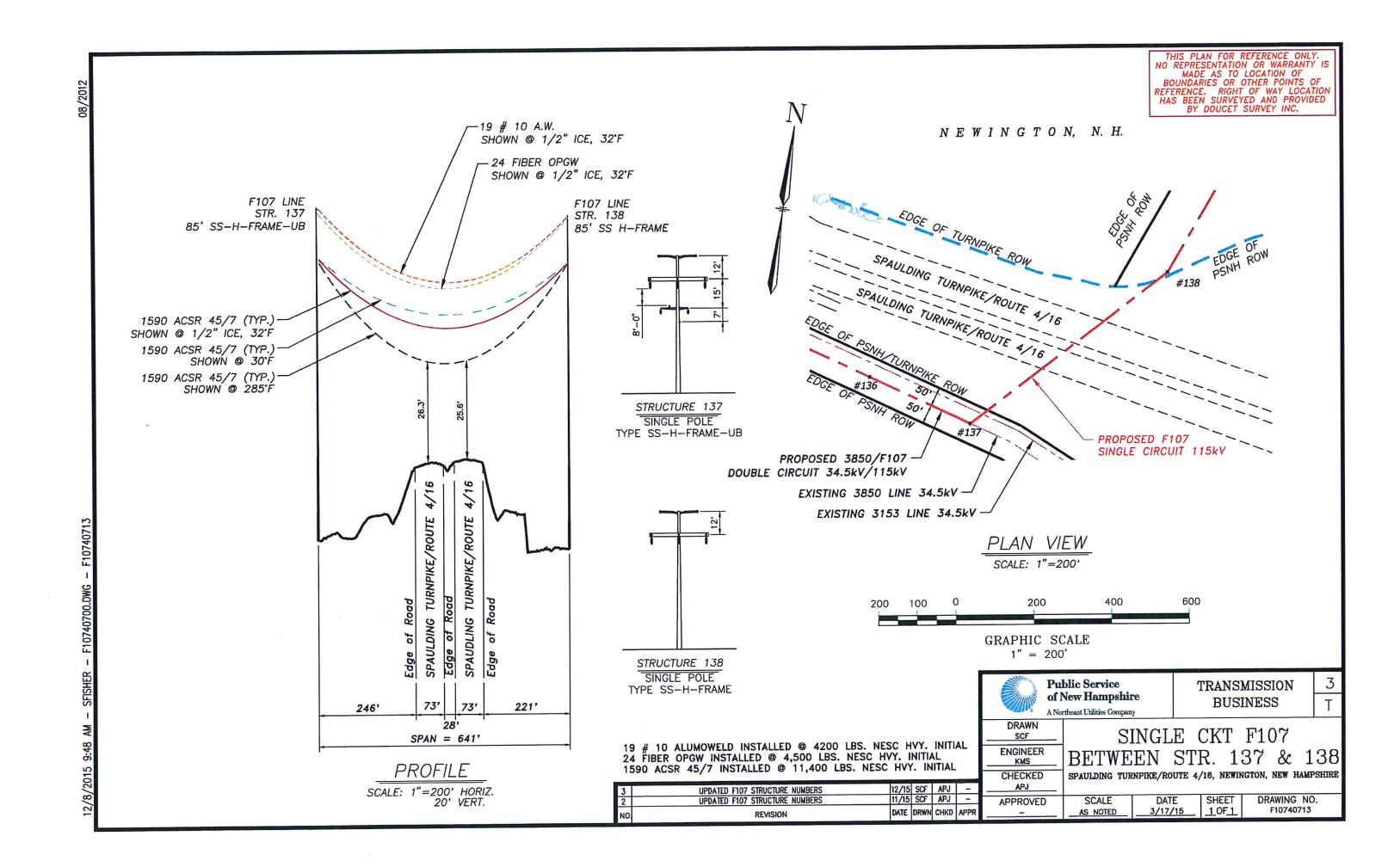


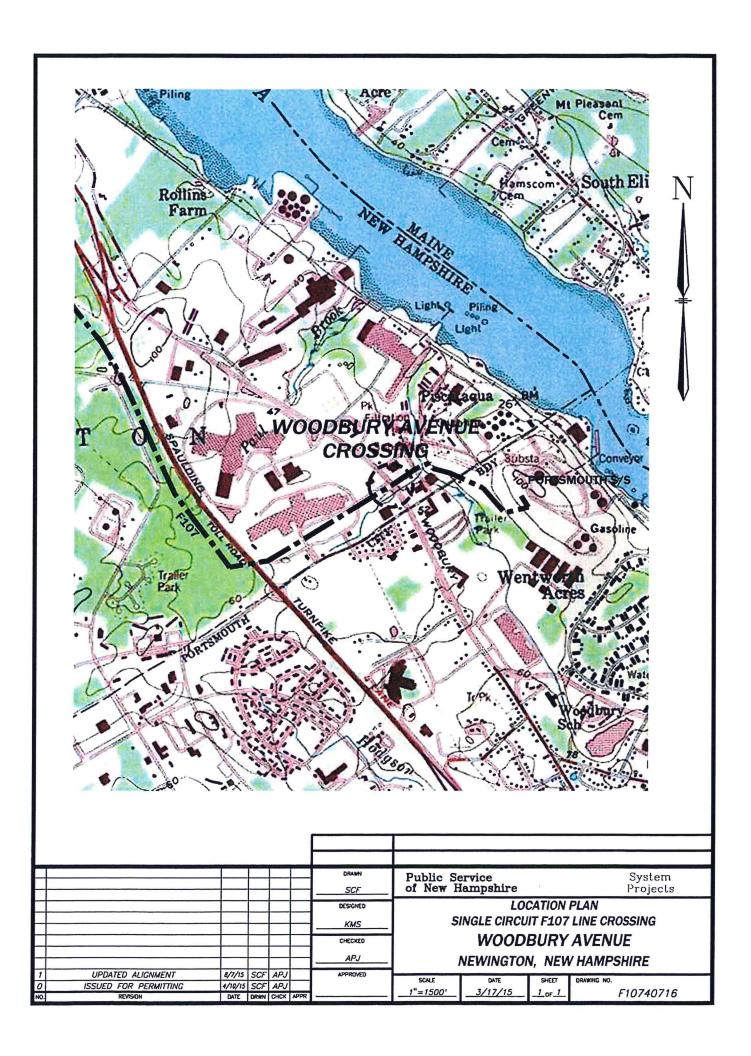


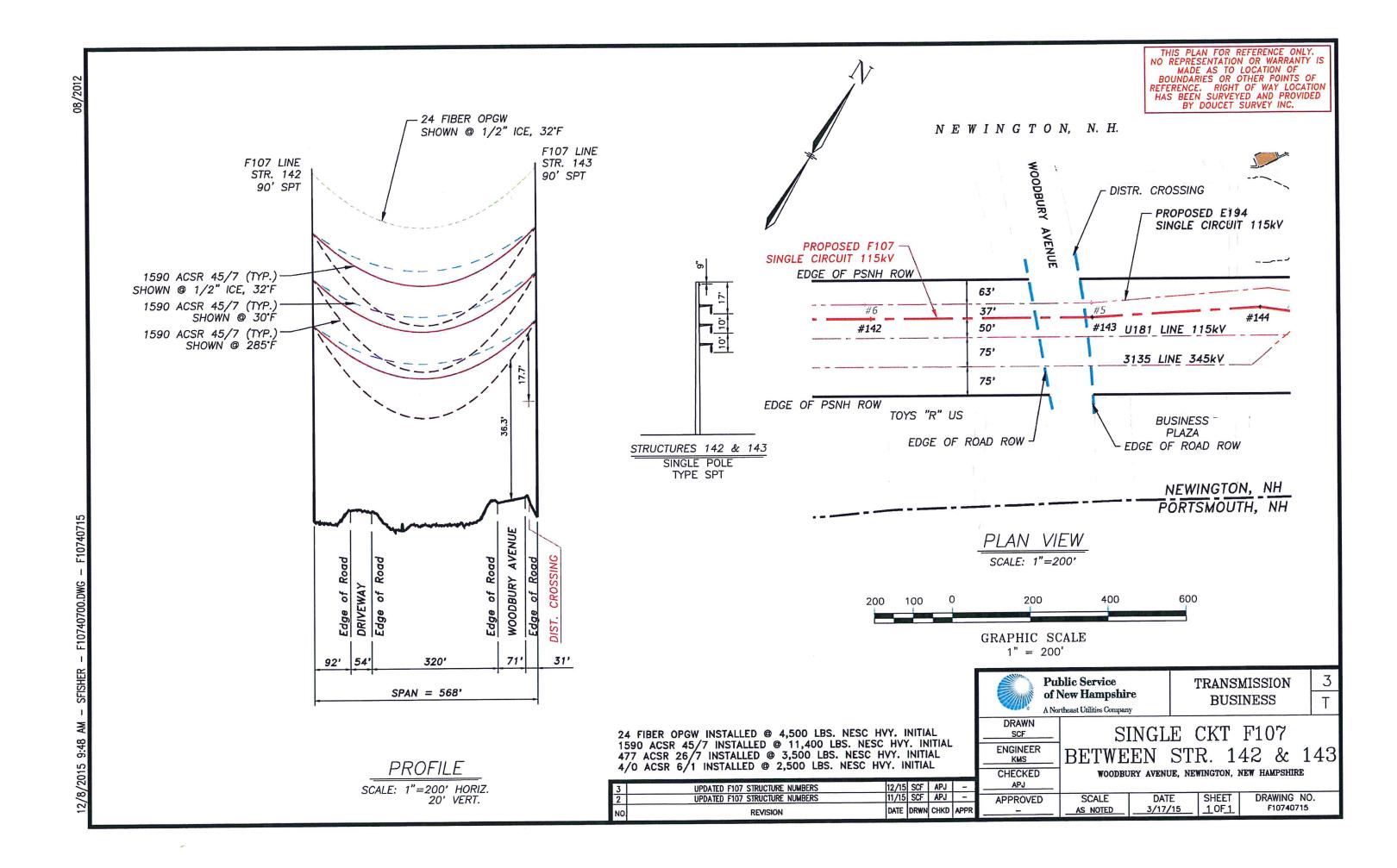


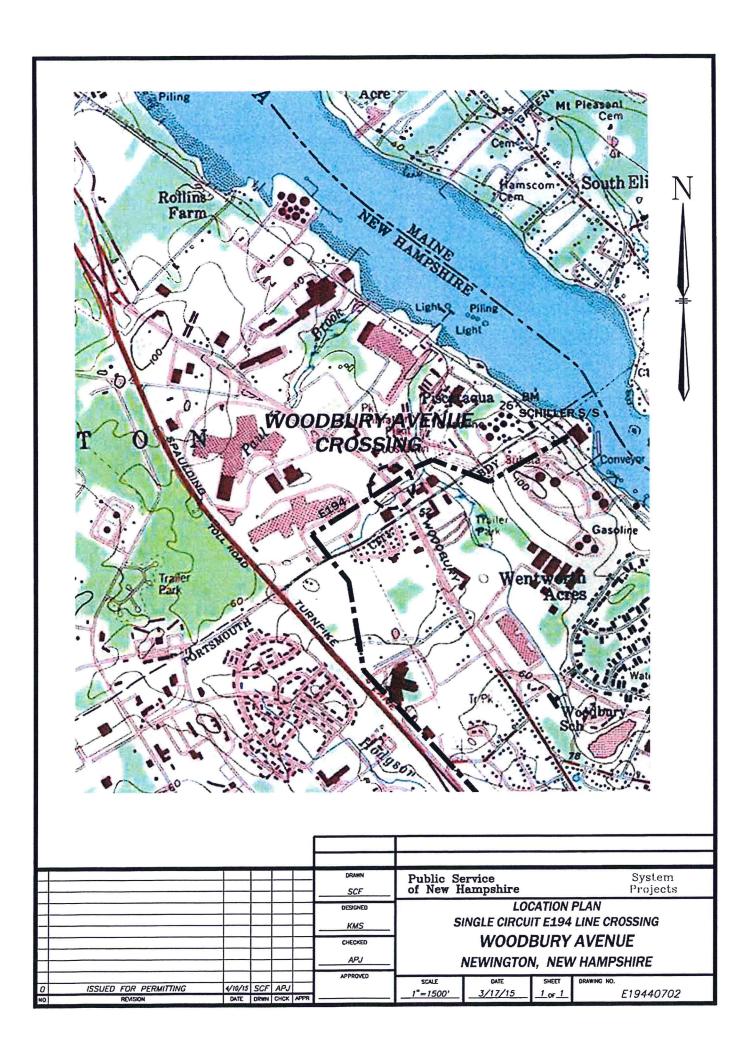


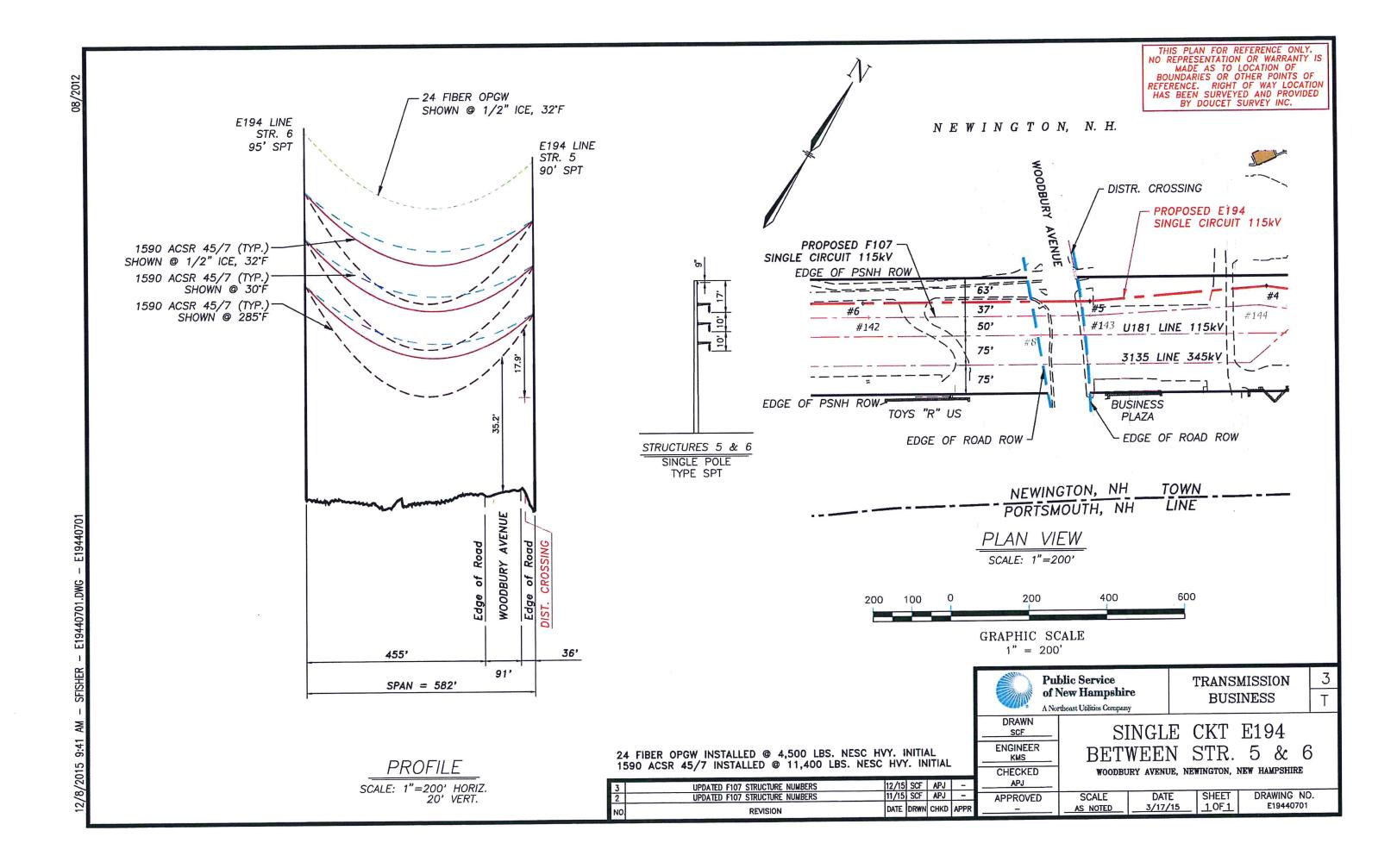














ATTACHMENT B

NHDOT EXCAVATION (TRENCH) PERMIT APPLICATION (To obtain permission to construct an access road across CAROW)



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION EXCAVATION PERMIT DISTRICT 6

PERMIT NO:	
TOWN/CITY:	
ROAD/ROUTE:	***************************************
DATE:	

District 1, 641 Main St, Lancaster, NH 03584
District 2, 8 Eastman Hill Road, Enfield, NH 03748
District 3, 2 Sawmill Road, Gilford, NH 03249

District 4, 19 Base Hill Road, Swanzey, NH 03446 District 5, 16 East Point Drive, Bedford, NH 03110 District 6, PO Box 740, Durham, NH 03824

District :	3, 2 Sawmil	il Road,	Gilford, NH 03249	Di	strict 6	, PO Box 740, Durl	ham, N	H 03824		
		•	36:9-11 and/or 231: mission is requested		•					
1)	on the	North	1	side of Route	4	or			R	Road
2)	in the to	vn of	Durham							
3)	for the pr			g an access road	from	Beech Hill Road	across	CAROW 1	for the	
	construct	tion and	l continuing mainte	nance of the tra	nsmis	sion line crossing	g NH R	Loute 4.		
4)			stance to nearest cr 0 feet westerly of the							
5)	during th	ie perio	d of dates between	TBD			and	TBD		
Construshall red	As shown ction shal quire prior This permortation (No younge)	on the long the per approval	tway. There will be attached plans, ske formed as shown o val from the Distriction only the type at NHDOT c	etches, letters, a n the attached p t Engineer. and manner of a annot and does	nd not plans, work to	es which shall be topographical, an to be performed in treby grant permi	made d descr the Ne ssion to	a part of the ription of we we Hampshoo enter upo	is permit. ork. Any variat nire Department	tion
	I/We Publi		TE ce Company of Ne Eversource Energy		-14-1-1	, Contract , Owner, a	or, and igree to	o conform t	to the	
provision issued the STATE	ons, instructions, instruction	Specifications a crict English EQUIR	fications for Road and regulations in positions or designee of the state of the sta	rocessing the weduring the processing the processing the processing the NO	ork uress of	der this request, the work.	and to	any additio	onal instructions	-
	-	THE	DISTRICT OFFIC	CE MUST BE S BEFORE PI	NOTI ERFO	RMING ANY W	VORK			***************************************
	AUUI	I VI					THE DIE	. <i></i>	A A ALVEEYLY,	

- Photographs or videos in sufficient detail to show the existing condition of the area to be disturbed within the ROW shall be furnished to the District Engineer prior to the start of work. Photographs of all State underground structures shall be taken just prior to backfill and furnished to the District Engineer.
- 2. No work in the highway ROW shall be permitted during the following conditions:
 - a. Inclement weather.
 - b. The hours of darkness*.
 - c. Saturdays, Sundays or Holidays. **
 - d. During the period from November 15th to April 15th. **
 - * Work after dark may be permitted at the discretion of the District Engineer if adequate lighting is in place and is sufficient to protect the traveling public and workers.
 - ** Work during these periods may be permitted at the discretion of the District Engineer.

Permit No.	Page 2

3. Traffic must be maintained in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), as revised during the performance of the work. Traffic shall be protected by suitable barricades, standard warning and advance warning signs, uniformed officers, as appropriate, and/or flaggers during performance of the work, and proper lighting at night. All signs shall be kept clean and in good repair.

- 4. Detour of state highway traffic requires prior approval by the District Engineer and shall be in accordance with an approved Traffic Control Plan.
- 5. All temporary yellow centerline overlay markers in place on two-way roadways prior to placement of full MUTCD standard pavement markings shall be removable. The temporary overlay markers shall be placed in pairs, separated by a lateral space of approximately three (3) inches, using a maximum spacing of eighty (80) feet. On sections of roadway with severe curvature, lesser spacing should be used so that at least three (3) pairs of markers are visible to approaching traffic at all times. Temporary overlay markers shall be removed following placement of standard pavement markings.
- 6. During the hours the job is inactive, a standby crew shall be available in case they are needed for the protection and maintenance of traffic. One or more telephone numbers, which will reach the standby crew, shall be furnished to the following people: local NHDOT District Dispatch, NHDOT Transportation Management Center, local police chief, local superintendent of public works or road agent (if the project is municipally owned), and the local NHDOT highway patrolman foreman.

The standby contact people will be:	(List two)	

NAME:	TBD	
TEL# (DAY):		
TEL# (NIGHT):		
CELL#:		

- 7. The Contractor shall be responsible for the acquisition of all other applicable permits and compliance with all local, state or federal rules, ordinances, and regulations.
- 8. The Contractor shall be responsible for the construction and maintenance of all necessary sediment and erosion control facilities required to protect storm water runoff.
- 9. In areas where the pavement is to be excavated, it shall be neatly and uniformly cut, with square edges by machine, at each side of all trenches. Every precaution shall be used to prevent undermining of the remaining pavement, utilizing sheeting as required, to prevent cave-in. Undermined areas inadvertently developed shall have the projecting pavement cut square and removed.
- 10. Excavation and handling of material shall be performed in a manner that will minimize trench width and the possibility of cave-ins. The pavement and base course materials are to be discarded. Excavation below subgrade is to be saved and used for backfill to prevent differential frost heaving. Any blasting required shall be cautiously performed to minimize disturbance beyond the trench limits. Overburden shall be removed prior to blasting. All blasting operations shall be performed in accordance with the Standard Specifications Section 203.
- 11. All backfill material in trenches and below base courses shall consist of excavated material suitable for backfill as defined in Standard Specifications, Section 603. All backfill shall be compacted at or near optimum moisture content, in layers not exceeding six (6) inches compacted thickness, using pneumatic tampers, vibratory compactors, or other approved means. The material shall be compacted to not less than ninety five (95) percent of maximum density as determined by AASHTO T99 (Standard Proctor Test). Water shall be uniformly applied during compaction in the amount necessary for proper compaction.

12. Within paved areas, crushed gravel, Standard Specifications Section 304, or approved equal to the existing gravel course, shall be placed in layers not exceeding six (6) inches compacted thickness, and thoroughly compacted. An approved bituminous plant mix, Standard Specifications Section 401, shall be placed the same day and carefully graded and rolled to the adjacent pavement grade, as a temporary patch. Just before completion of the project and after suitable exposure of temporary patches to traffic compaction, the pavement shall be sawn, as directed, on either side of the trench to provide a two (2) foot minimum overlap of the final patch on undisturbed material. Within the sawn limits, the existing pavement and temporary patch material shall be removed, the sawn edges tack coated, and the material replaced with an equal depth, but not less than four (4) inches, of hot bituminous concrete, placed as directed, and compacted to meet the existing pavement edge exactly. Finished pavement must replicate the original pavement design including normal crown, superelevations, and breaks in superelevated shoulders. Saw cuts for final patching shall be as directed by the District Engineer. In all cases, trench is to be flush with the existing pavement at the end of each working day.

- 13. Shoulders, other than paved, disturbed during the construction, shall be restored by providing a similar depth of crushed bank run gravel which shall be graded and compacted on a slope to match the cross slope of the existing roadway shoulder or as directed by the District Engineer.
- 14. In other areas, the present surface type shall be restored, by placing similar material to a depth and quality equal to that existing before excavation. Reestablish existing grassland to equal what existed before excavation. Reestablish lawns to pre-construction condition, using a minimum of four (4) inches of loam, lime, fertilizer, similar seed, and mulch. The surface shall be reasonably smooth, free of stones larger than two (2) inches or debris, and be graded to drain.
- 15. No trench shall be left open at night or over weekends. Suitable unrestricted ingress and egress to properties abutting the highway shall be maintained at all times. Two-way traffic shall be maintained at all times during nights, weekends, and holidays.
- 16. Any future surface distortion within the trench area, due to settlement or other causes attributable to the construction shall be corrected as required during construction and for a period of two (2) years following the acceptance of the project by NHDOT.
- 17. The roadway shall be cleared of all foreign material at the end of each working day or as directed by the District Engineer.
- 18. Equipment must be removed to a minimum distance of eight (8) feet from the edge of pavement during weekends, holidays, and periods of shutdown. Suitable barricades shall be erected to properly protect the work areas. Periodic maintenance of signs during periods of shutdown is required to restore blown over or missing signs, cones, and other traffic control devices. Routine NHDOT maintenance operations shall not be hindered by the Contractor's activities.
- 19. Pipe, equipment, and supplies shall not be stored within the NHDOT ROW without prior approval by the Engineer. Pipe or materials shall not be laid out ahead of construction.
- 20. Excavation dewatering shall not be pumped onto the State highway pavement. The Contractor may be required to plow, salt, and/or sand any portion of the State highway that becomes encumbered due to the Contractor's operations. NHDOT snow removal and maintenance operations shall not be impeded.
- 21. The District Engineer shall have the right to suspend any or all construction activities, which, in the District Engineer's opinion are unsafe to the traveling public.
- 22. Damage to existing drainage structures and systems shall be repaired in a manner approved by the District Engineer. Methods and materials utilized shall be subject to prior approval. Drainage structures or systems shall be cleaned of all material that has accumulated as a result of the work.

	nit No Page 4
23.	Damage resulting from work or detoured traffic to the roadway shall be repaired to the District Engineer's satisfaction.
24.	If a highway sign or guardrail must be moved to allow construction of the facility, said sign and guardrail shall be reinstalled or replaced at the location of removal at the end of each work day or replaced by approved temporary devices pending permanent installation.
25.	The District Engineer may inspect, test, or monitor any and all of the Contractor's activities within the highway ROW to insure compliance with this permit.
26.	Following completion of the construction activities, the District Engineer will inspect the completed work. Final acceptance may be reasonably withheld should the work not be completed in an acceptable manner and in accordance with the terms of this permit.
27.	The Owner shall, upon project completion, submit a complete set of "as-built" drawings to the District Engineer.
	I/We, the Contractor, agree to save harmless the State of New Hampshire from any and all claims arising from construction, trench settlement, pavement damage or other deficiencies attributable to the said construction for a od of two (2) years following acceptance of the project by NHDOT.
	I/We, the Contractor, agree to assume such additional cost as the State may incur by reason of failure to perform work in the manner prescribed above and in accordance with said plans and specifications, and are familiar with the lty imposed by Chapter 236, and amendments thereto.
_	
late acce	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount ofdollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory itenance of the disturbed areas for a period of two (2) years.
late acce mai	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount of dollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory
late acce mai	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount ofdollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory itenance of the disturbed areas for a period of two (2) years. I/We, the Contractor, agree to reimburse the State of New Hampshire fully for the services of a State
late acce mai	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount of dollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory itenance of the disturbed areas for a period of two (2) years. I/We, the Contractor, agree to reimburse the State of New Hampshire fully for the services of a State ector(s) when assigned to this project to insure compliance with the terms of this permit.
late acce mai Insp	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount of dollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory itenance of the disturbed areas for a period of two (2) years. I/We, the Contractor, agree to reimburse the State of New Hampshire fully for the services of a State ector(s) when assigned to this project to insure compliance with the terms of this permit. (PLEASE PRINT)
late acce mai Insp	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount of dollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory attenance of the disturbed areas for a period of two (2) years. I/We, the Contractor, agree to reimburse the State of New Hampshire fully for the services of a State ector(s) when assigned to this project to insure compliance with the terms of this permit. (PLEASE PRINT) NTRACTOR: TBD
late acce mai Insp	I/We, the Contractor, agree to furnish prior to the start of work a continuing Surety Bond in the amount of dollars guaranteeing the fulfillment of the provisions, instructions, and regulations prescribed herein, and any instructions that may be issued by the District Engineer during the performance of the work. Following the ptance of the project by NHDOT, the bond amount may be reduced to \$ dollars guaranteeing satisfactory itenance of the disturbed areas for a period of two (2) years. I/We, the Contractor, agree to reimburse the State of New Hampshire fully for the services of a State ector(s) when assigned to this project to insure compliance with the terms of this permit. (PLEASE PRINT) NTRACTOR: TBD REET ADDRESS:

III. I/We, the Owners, agree to save harmless the State of New Hampshire from any and all claims arising from the construction, maintenance, and operation of the said facility and its appurtenances and agree to obtain permits from the District Engineer before performing any future excavation for maintenance or renewal of the facility or appurtenances thereto within the ROW limits.

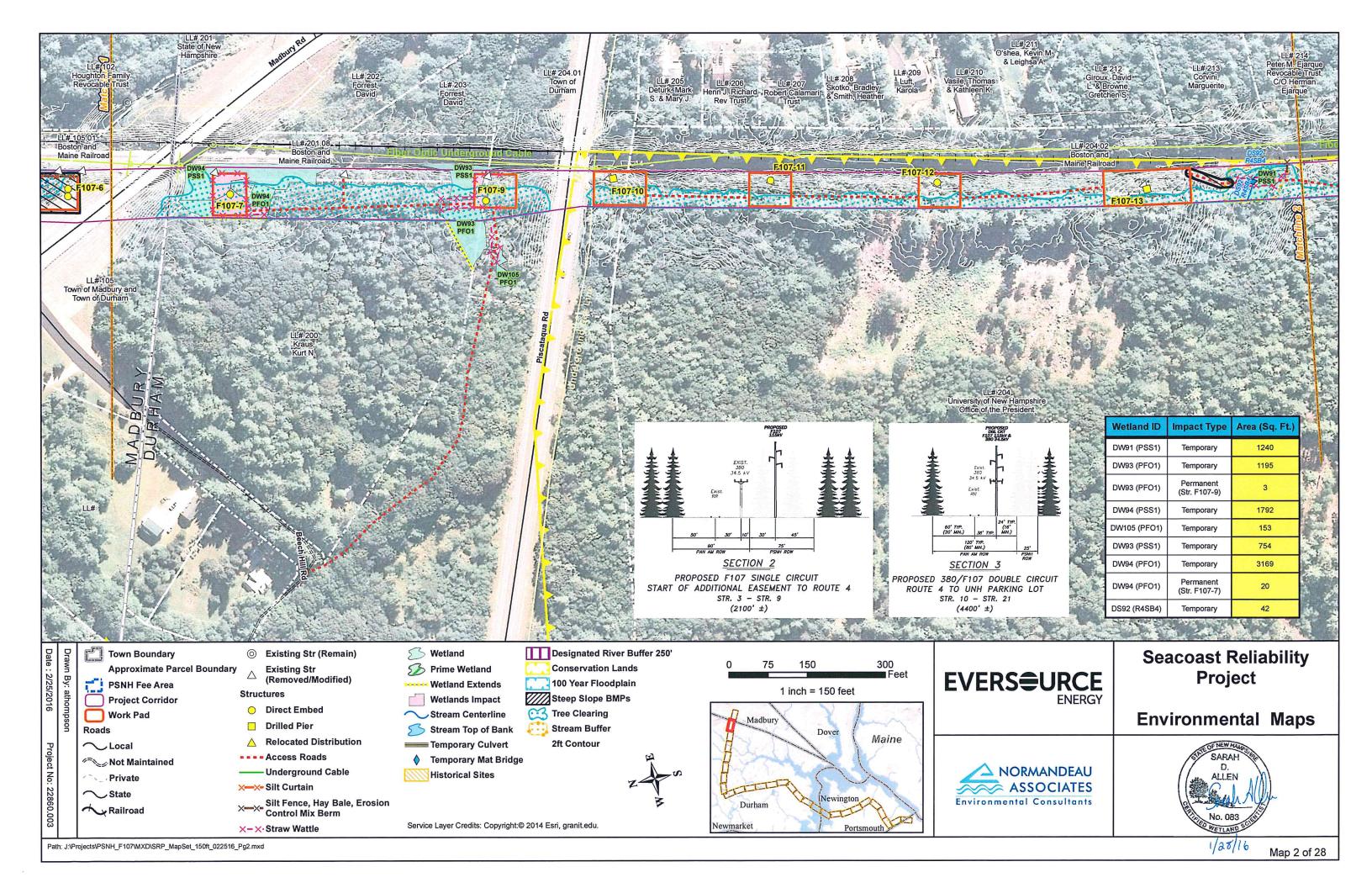
I/We, the Owners, agree to assume such additional cost as the State may incur due to the maintenance, operation, renewal, or extension of said facility or appurtenances thereto within the highway limits.

I/We, the Owners, understand and agree that this permit is for the right of construction, operation, and future maintenance of the said facility. Occupancy is by sufferance only, with the State reserving the right to require, in event of future alterations of the highway or highway ROW, certain alterations, relocations or complete removal of said facility.

Permit No		Page 5
I/We, the Owners, agree our own expense upon notification		tions or removal of said facility promptly and at
the condition that the Owner/Operator to pay duly ass	perator shall pay all properly assessed sessed personal and real taxes when dusts of RSA 72:23, I(b), the Owner/Ope	real and personal property taxes. Failure of the shall be cause to terminate this agreement. In trator shall be obligated to pay real and personal
	(PLEASE PRINT)	
OWNER:	Public Service Company of New Ham	ipshire,
STREET ADDRESS:	13 Legends Drive	
TOWN/CITY, STATE & ZIP:	Hooksett, NH 03106	
SIGNATURE:	Kut f. Milson	TITLE: Siting and Permitting
PRINTED NAME:	Kurt Nelson	TEL. NO.: 603-714-3031
24 HOUR CONTACT PERSO	DN: Kurt Nelson	TEL. NO.: 603-714-3031
NH DEPART		INISTRATION,
•••	CE TEL.: District 6 (603)868-1133	
PATROL FOREMAN	I NAME:	
	IONE: #:	
	Patrol Foreman, Utility Owners and Contract	
	ADDITIONAL REQUIREM	<u>AENTS</u>

☐ Additional Requirements Attached

Rev 3/2013 (LONG FORM)





ATTACHMENT C

NHDOT TURNPIKE ENCROACHMENT PERMIT APPLICATION (To obtain permission to access the Transmission ROW from the Spaulding Turnpike)



April 4, 2016

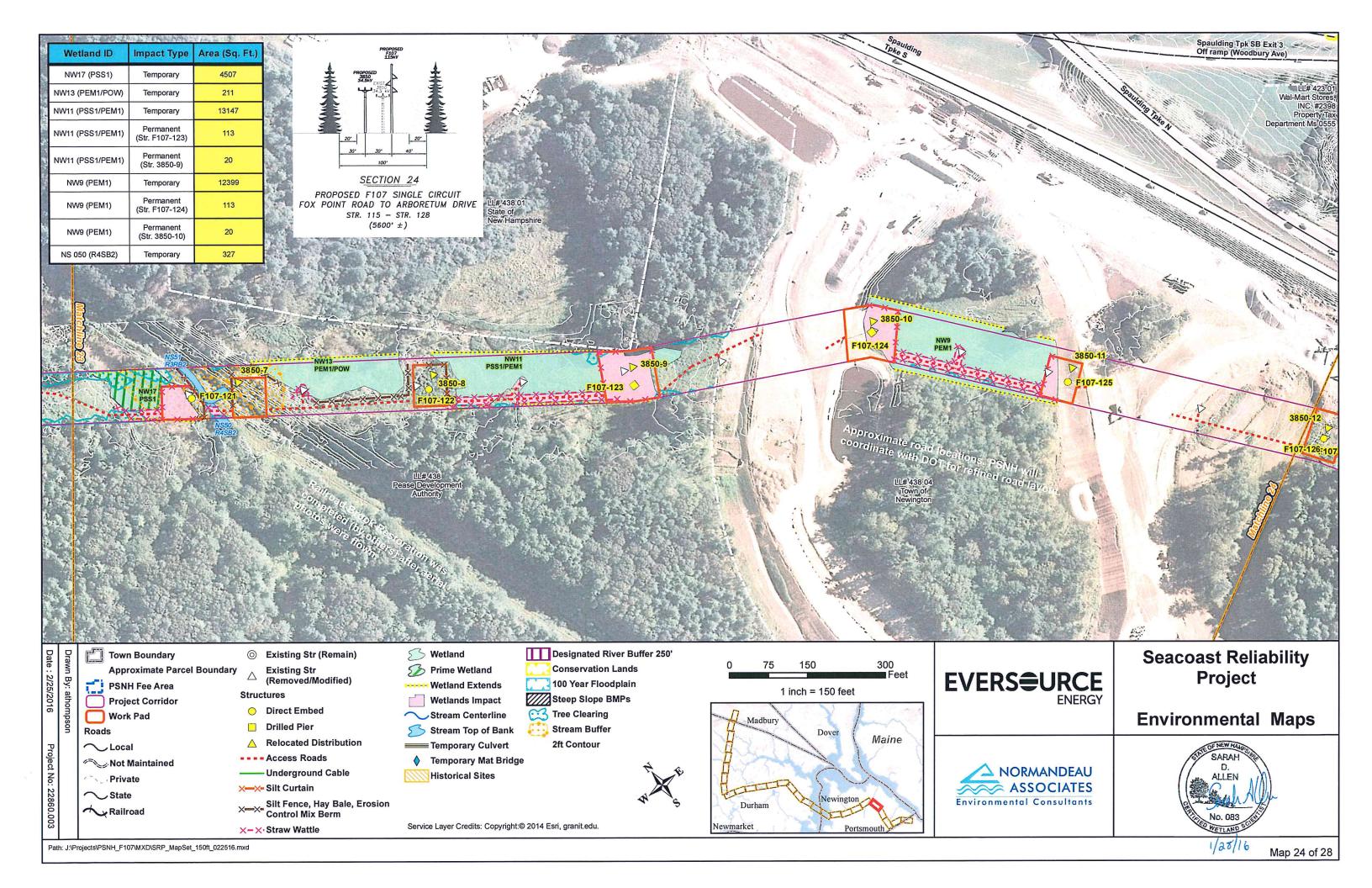
Commissioner Victoria Sheehan N. H. Department of Transportation John O. Morton Building 7 Hazen Drive Concord, NH 03302-0483

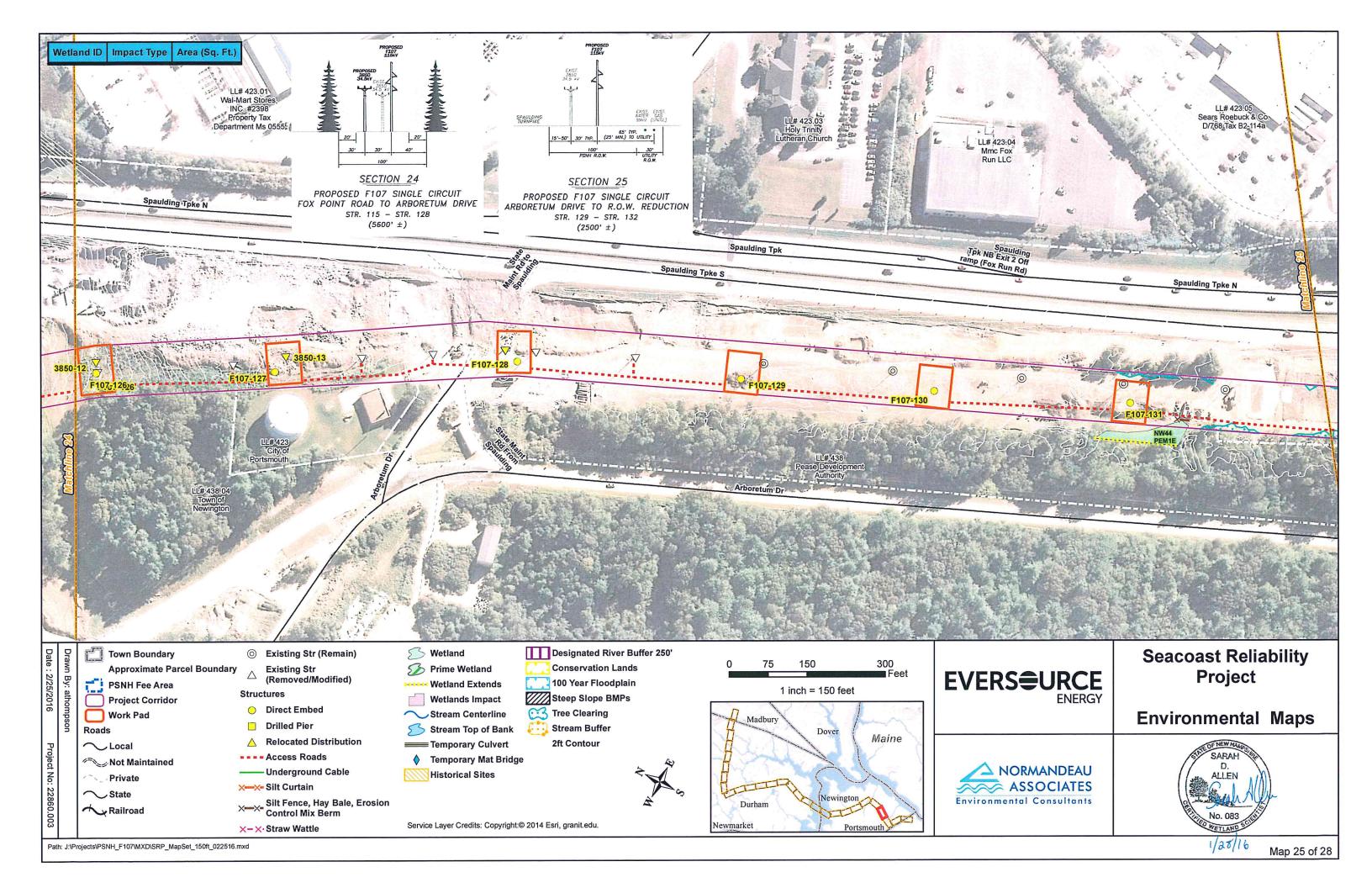
Dear Commissioner Sheehan:

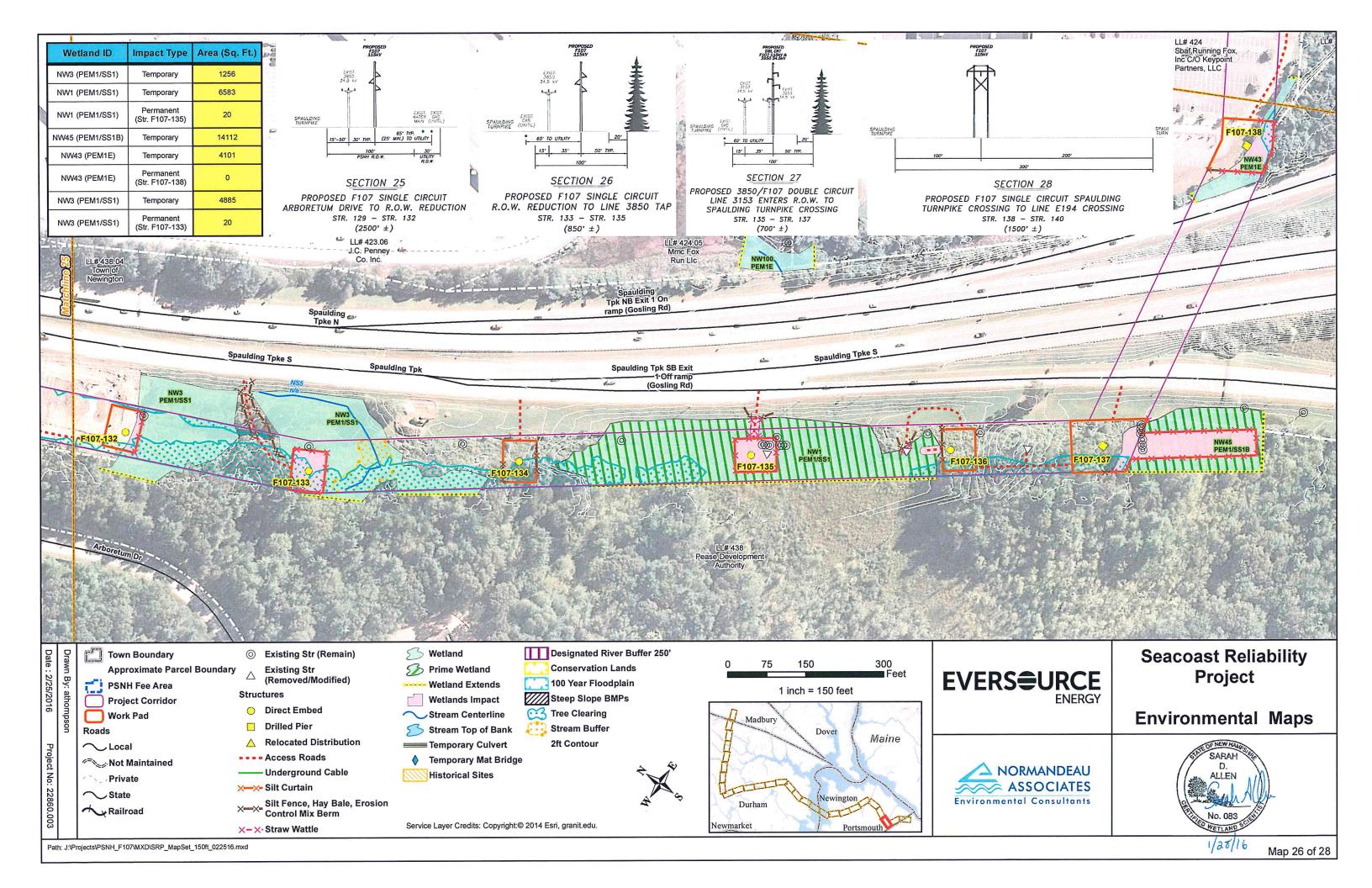
The Public Service Company of New Hampshire (PSNH), dba Eversource Energy (PSNH), 780 North Commercial Street, Manchester NH, 03101, in collaboration with an application to the Site Evaluation Committee to construct a new 115-kV line approximately 12.9 miles from Madbury, NH to Portsmouth, NH respectfully requests a temporary encroachment agreement within the LAROW of the Spaulding Turnpike in the vicinity of Exit 1.

In response to the attached document: <u>NHDOT Bureau of Turnpikes Encroachment Permit Application</u> we offer the following for your consideration:

- At this time, a contractor has not yet been selected, however, the name and address of the
 contractor performing the work as well as the contractor's contact person and contact information
 will be provided to the New Hampshire Department of Transportation (NHDOT) Bureau of
 Turnpikes prior to the commencement of any work within the LAROW.
- Please refer to the attached plans prepared by Normandeau Environmental Consultants entitled Seacoast Reliability Project Environmental Maps for the location and limits of work to be addressed by the temporary encroachment agreement.
- In Newington NH the proposed electric transmission line will be located in the existing distribution line ROW that lies to the west of the Spaulding Turnpike before crossing the highway just north of Exit 1. For most of this work, access to construct the proposed structures will be from within the existing distribution line ROW, however due to the extensive existence of wetlands in the vicinity of the Southbound Exit 1 Off-ramp, PSNH is requesting permission to temporarily access the distribution line ROW from the southbound shoulders of the Spaulding Turnpike and Exit 1 Off-ramp at several locations.
- Consistent with other temporary access roads constructed for the project, clean gravel or trap rock will be placed at a depth of 6 to 8 inches to stabilize and level the road surface. An access apron, utilizing crushed stone, will be installed at the entrance to the shoulder to clean the tires of construction vehicles. To avoid impacting wetlands within the LAROW the access will be installed in a manner consistent with the NHDES approved document "Best Management Practices Manual for Utility Maintenance In and Adjacent to Wetlands and Waterbodies in New Hampshire", which was developed by the NH Department of Resource and Economic Development. When construction of the transmission line is complete the temporary access road will be removed and the roadway slopes restored to their previously existing grade and condition. The area will be seeded and mulched to restore vegetation. All work will comply with the latest









ATTACHMENT D TRAFFIC CONTROL PLANS

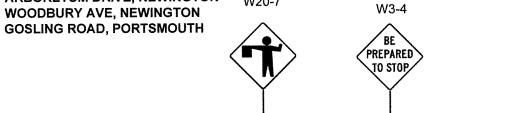




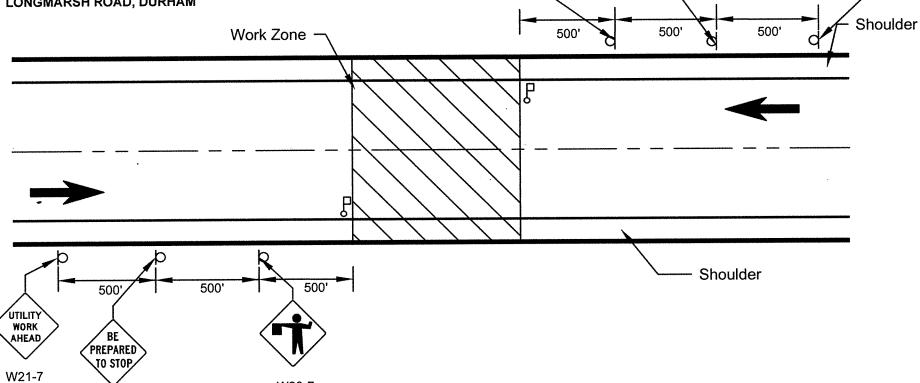


- MADBURY ROAD, MADBURY
- **ROUTE 4, DURHAM**
- MAIN STREET, DURHAM
- WATERWORKS ROAD, DURHAM
- MILL ROAD, DURHAM
- NEWMARKET ROAD (RTE 108), DURHAM
- TIMBER BROOK LANE, DURHAM
- **CUTTS ROAD, DURHAM**
- FFROST DRIVE, DURHAM
- SANDY BROOK DRIVE, DURHAM
- LONGMARSH ROAD, DURHAM

- **DURHAM POINT ROAD, DURHAM**
- NIMBLE HILL ROAD, NEWINGTON
- FOX POINT ROAD, NEWINGTON
- ARBORETUM DRIVE, NEWINGTON **WOODBURY AVE, NEWINGTON**



W20-7



1. Traffic will only need to be stopped in the event that the line being pulled bellies down into the roadway. A traffic controller will be stationed at the crossing until the pull is complete.

W3-4

Notes:

W20-7

2. All lane closures shall be in conformance with the latest edition of the MUTCD manual.

NOT TO SCALE

Louis Berger Manchester, New Hampshire (603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY

SEACOAST RELIABILITY PROJECT

TYPICAL TEMPORARY CLOSURE FOR AERIAL INSTALLATIONS TWO WAY ROADWAYS

W21-7

UTILITY

WORK

AHEAD

PROJECT NO. TOTAL SHEETS SHEET NO. DGN TRAFFIC CONTROL PLAN.DVG 2004421.01

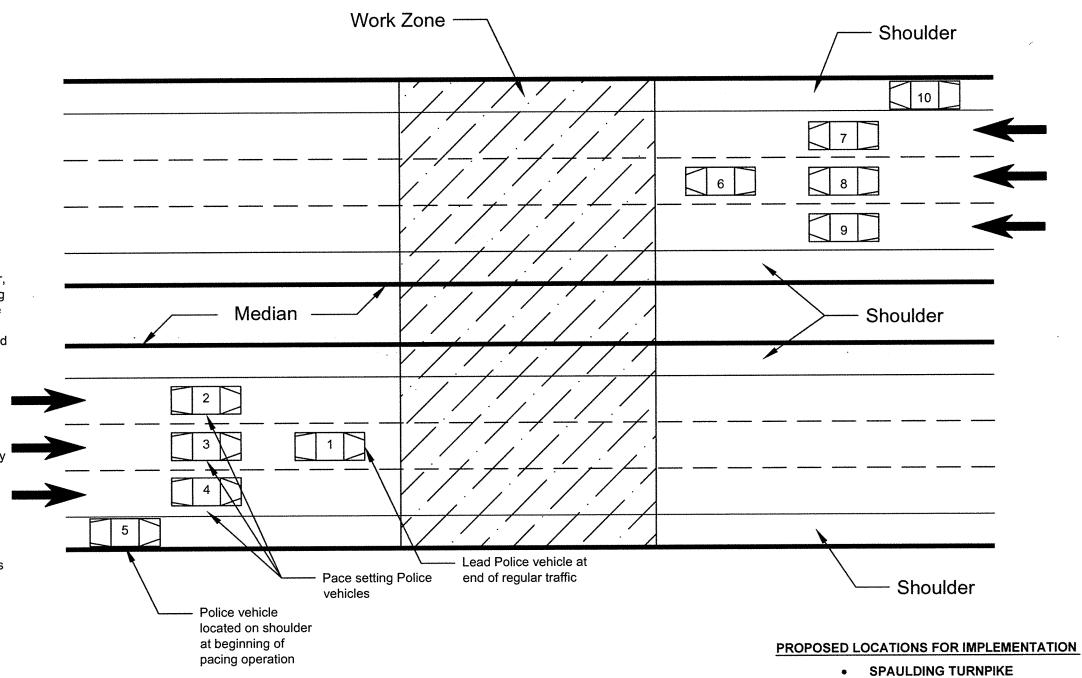
Pacing Distance is defined as the total distance for which officers pace or slow the traffic to a low speed to allow for overhead construction. Calculated total pacing distance for 10 mph pacing speed and a 25 minute roadway closure is 4 miles.

Stage 1 of the operation begins with all vehicles in the rolling roadblock operation being positioned on the right shoulder of the road at the total pacing distance from the work area with flashing lights off.

Stage 2 begins, after receiving the signal from the lead coordinator, with the pacing and lead vehicles entering the traffic stream. During this stage, the pacing vehicles get into side-by-side positions in the travel lanes, slowing traffic behind them. Once in position, the pacing vehicles turn their flashing lights on and slow to the specified pacing speed (**10 mph**).

Stage 3 begins when the lead vehicle, which has its lights off, reaches the work area and stops prior to the work area to block any errant vehicle which may have circumvented the pace setting vehicles. At this point, the lead vehicle turns its flashing lights on.

Stage 4 begins when the pace setting vehicles are within two miles of the work area, at which point they must notify the lead coordinator of their position. If the work is completed and the work space is cleared, the pace setting vehicles would proceed through the cleared work area and immediately move to the right shoulder.



Notes:

1. On-ramps within 4 miles of the work zone will be closed prior to the lead vehicle at the end of regular traffic reaching the merge of the on-ramp and will remained closed until the pace setting vehicle passes.

NOT TO SCALE

Louis Berger Manchester, New Hampshire (603) 644 5200

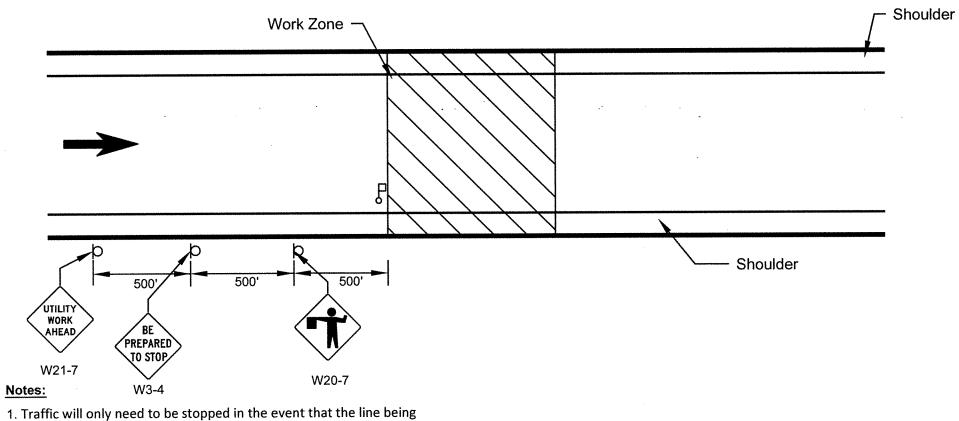
PUBLIC SERVICE OF NEW HAMPSHIRE
A NORTHEAST UTILITES COMPANY

SEACOAST RELIABILITY PROJECT

TYPICAL ROLLING CLOSURE FOR AERIAL INSTALLATIONS
CONTROLLED ACCESS HIGHWAY

DGN PROJECT NO. SHEET NO. TOTAL SHEETS
TRAFFIC CONTROL PLAN.DVG 2884421.81 2 4

Source: The National Work Zone Safety Information Clearinghouse



pulled bellies down into the roadway. A traffic controller will be stationed at the crossing until the pull is complete.

2. All lane closures shall be in conformance with the latest edition of the MUTCD manual.

NOT TO SCALE



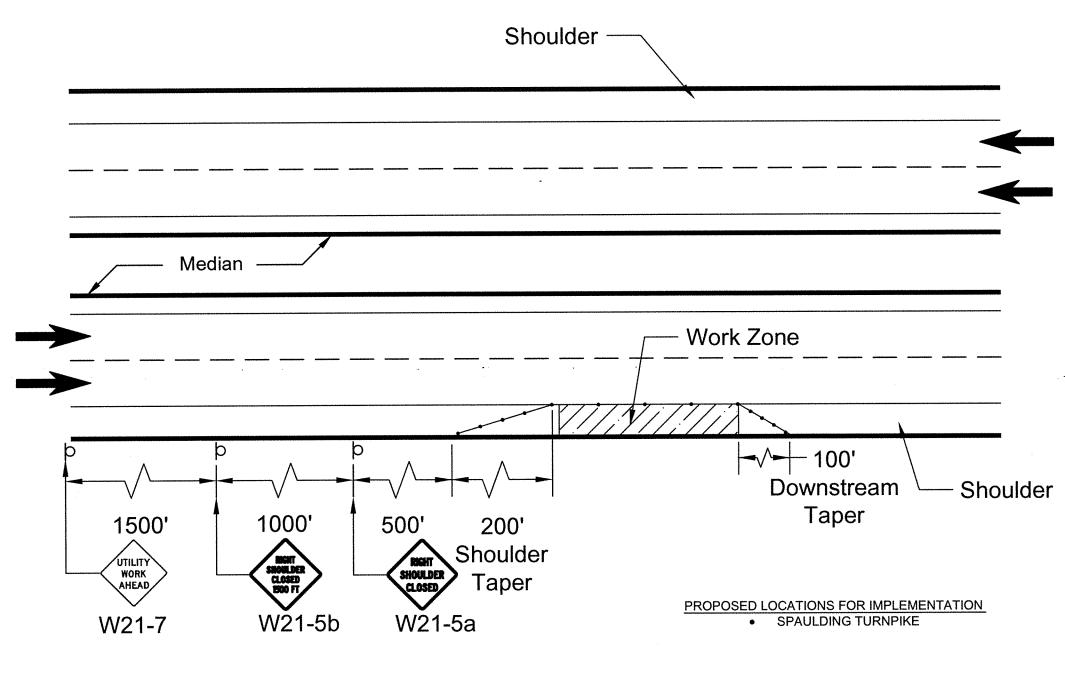
Louis Berger
Manchester, New Hampshire (603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY

SEACOAST RELIABILITY PROJECT

TYPICAL TEMPORARY CLOSURE FOR AERIAL INSTALLATIONS SPAULDING TURNPIKE ON AND OFF RAMPS

PROJECT NO. SHEET NO. TOTAL SHEETS DGN TRAFFIC CONTROL PLAN.DWG 2004421.01



Notes:

1. All lane closures shall be in conformance with the latest edition of the MUTCD manual.

NOT TO SCALE



PUBLIC SERVICE OF NEW HAMPSHIRE
A NORTHEAST UTILITES COMPANY

SEACOAST RELIABILITY PROJECT

TYPICAL SHOULDER CLOSURE FOR DIVIDED HIGHWAY SPAULDING TURNPIKE

DGN PROJECT NO. SHEET NO. TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG 2004421.01 4 4