

## **APPENDIX 18(a): Overhead and Underground Municipal Highway Crossings**

Public Service Company of New Hampshire d/b/a Eversource (“PSNH”) is submitting an Amendment to its April 12, 2016 Application to the New Hampshire Site Evaluation Committee (“SEC”) for a Certificate of Site and Facility (“Certificate”) to construct and operate the Seacoast Reliability Project—a new 115 kilovolt (kV) transmission line between the Madbury and Portsmouth substations (“SRP” or the “Project”).

PSNH has continued to work closely with abutters, host communities and its citizens to avoid, minimize, and mitigate potential impacts of the construction and operation of the Project. To respond directly to the feedback received from these stakeholders, PSNH has made significant design changes, including, siting approximately 2,680 additional feet of the Project underground through the Newington Center Historic District and Hannah Lane residential neighborhood, altering the route for the underground design in Newington through Gundalow Landing, relocating the site of a transition structure in Newington, and modifying the overhead design in both of the Towns of Durham and Newington. A full description of design changes can be found in the SEC Amendment Narrative.

Copies of revised Environmental Maps (SEC Application Amendment Appendix 2(a)) and the Engineering Drawings (SEC Application Amendment Appendix 5(a)) have been submitted to the SEC.

### AERIAL ROAD CROSSINGS

These design changes have resulted in minor changes to aerial crossings of municipally maintained highways. The April 12, 2016 Application included 11 aerial crossings. The Amendment placed one crossing underground in the Town of Newington at Nimble Hill Road. There are now 10 proposed aerial crossings. These crossings are located in the communities of Durham, Newington and Portsmouth.

The amended list Aerial Crossings of Municipally Maintained Highways is provided in Part A below. Note that the Amended design has resulted in minor changes to the “Height Above Highway” line clearances for 8 of the 10 crossings.

### UNDERGROUND INSTALLATIONS IN MUNICIPALLY MAINTAINED PUBLIC HIGHWAYS

In addition to the aerial crossings, PSNH proposed sections of underground installation situated within the right of way of municipally maintained highways in the towns of Durham and Newington. In the town of Durham an underground segment will be used to cross under Main Street (Route 155A). In the town of Newington, underground segments will be placed beneath the pavement of three highways: Gundalow Landing Circle, Little Bay Road and Nimble Hill Road. Construction of these segments will utilize trenching to install the conduit duct banks beneath the paved surfaces. Corresponding design plans for the altered underground layout at

Gundalow Landing and additional underground installation at Nimble Hill Road in Newington are provided in Appendix 18(a), Part B.

Additionally, an updated traffic control plan consistent with the Manual on Uniform Traffic Control Devices (MUTCD) for the underground crossings is included in Appendix 18(a), Part C 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.

## APPENDIX 18(a)

### PART A - Aerial Crossings of Municipally Maintained Highways

Highway	Town	Structure Numbers	Height Above Highway (Ft)	Classification of Highway
Mill Road	Durham	33-34	20.3*	V
Timber Brook Lane <sup>A</sup>	Durham	63-64	31.5*	VI
Cutts Road <sup>A</sup>	Durham	67-68	21.2*	V
Frost Drive <sup>A</sup>	Durham	68-69	33.8*	V
Sandy Brook Drive	Durham	70-71	25.6*	V
Sandy Brook Drive <sup>A</sup>	Durham	73-74	28.8*	V
Longmarsh Road <sup>A</sup>	Durham	89-90	29.0*	V
Durham Point Road <sup>A</sup>	Durham	95-96	51.0**	V
Fox Point Road <sup>A</sup>	Newington	114-115	46.0**	V
Gosling Road <sup>A</sup>	Portsmouth	147-148	43.8**	V

<sup>A</sup> The aerial crossing is revised from initial design.

\*Lowest wire is 0kV neutral conductor. 115kV and 34.5kV conductors and 0kV shield wire will be above this height.

\*\*Lowest wire is 115kV conductor. 0kV shield wire(s) will be above this height.

## **APPENDIX 18(a)**

### **Part B – Underground Crossings of Municipally Maintained Highways: Gundalow Landing and Nimble Hill Road in Newington**



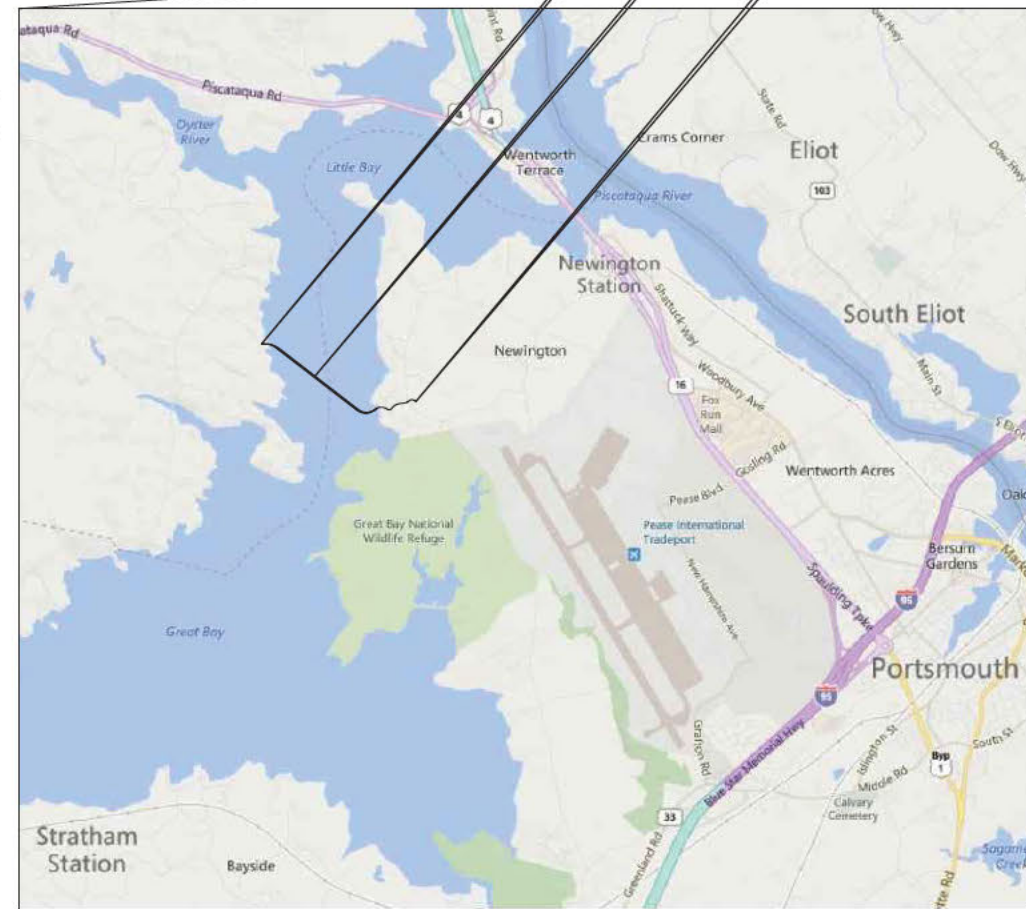
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# PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CIRCUIT F-107 LITTLE BAY, NEWINGTON 115kV UNDERGROUND TRANSMISSION LINE

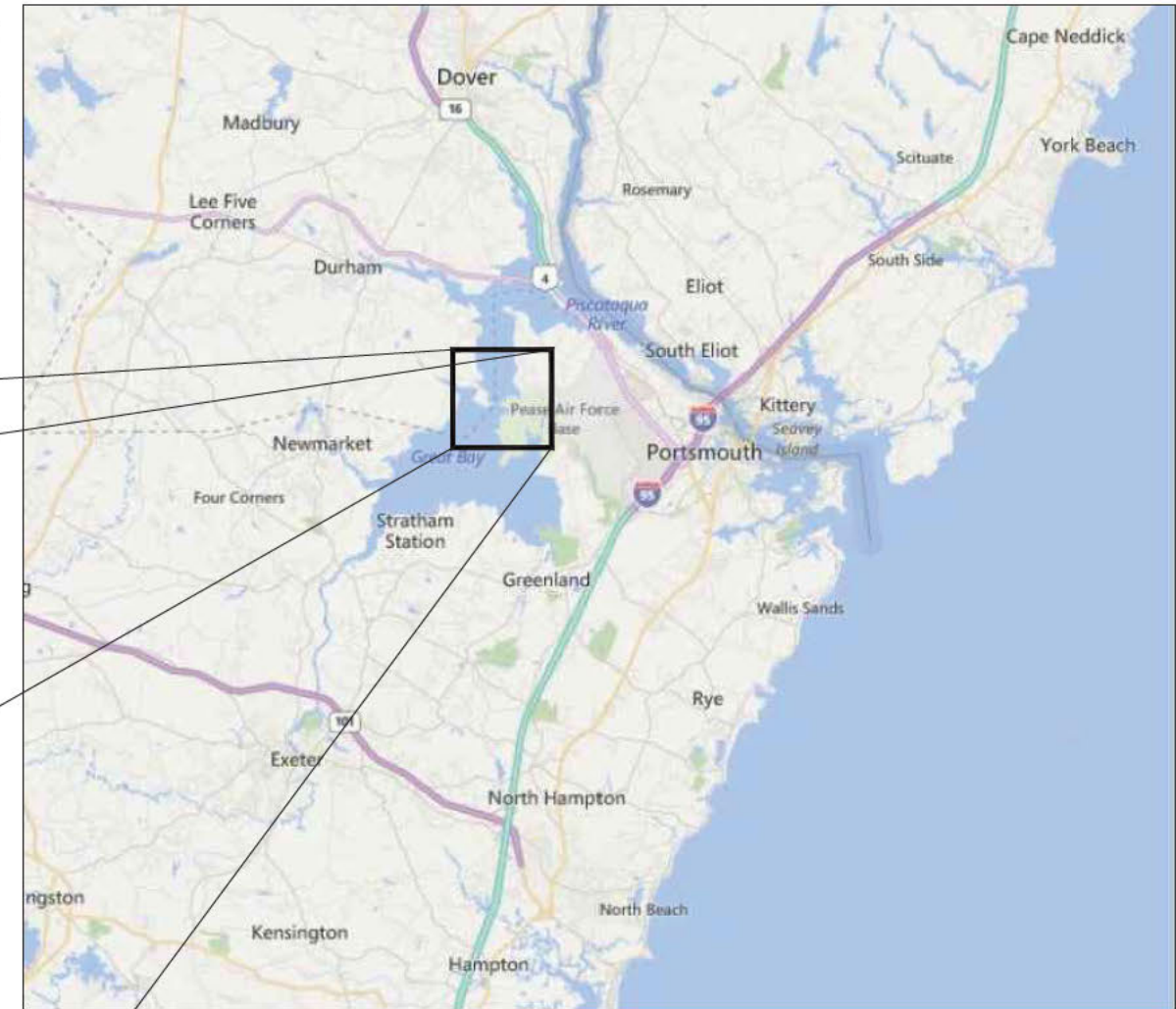
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
SHEET 1 OF 13	COVER SHEET, LEGEND, AND DRAWING MANIFEST	11	1-20-2017
SHEET 2 OF 13	PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00	11	1-20-2017
SHEET 3 OF 13	PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00	11	1-20-2017
SHEET 4 OF 13	PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00	11	1-20-2017
SHEET 5 OF 13	PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00	11	1-20-2017
SHEET 6 OF 13	PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00	11	1-20-2017
SHEET 7 OF 13	PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00	11	1-20-2017
SHEET 8 OF 13	PLAN AND PROFILE DRAWING STA. 453+00 TO STA. 463+00	11	1-20-2017
SHEET 9 OF 13	PLAN AND PROFILE DRAWING STA. 463+00 TO STA. 470+00	11	1-20-2017
SHEET 10 OF 13	TRENCH AND JET PLOW DETAILS	11	1-20-2017
SHEET 11 OF 13	SPLICE VAULT DETAILS	11	1-20-2017
SHEET 12 OF 13	SPLICE VAULT DETAILS	11	1-20-2017
SHEET 13 OF 13	SPLICE VAULT MISCELLANEOUS DETAILS	11	1-20-2017

### LEGEND

- ELECTRICAL STRUCTURE
- LAMP POST
- WOODEN POST
- IRRIGATION CONTROL VALVE
- ELECTRIC BOX
- TELECOMMUNICATION BOX
- UTILITY BOX
- CATCH BASIN
- CONIFEROUS TREE
- DECIDUOUS TREE
- CONCRETE
- RIP RAP
- LANDSCAPED AREA
- CRUSHED STONE
- SURFACE LEDGE
- TYP. RETAINING
- EP
- CONC.
- TREE LINE
- SHRUB LINE
- PROPERTY LINES
- D DRAIN LINE
- OHW OVERHEAD ELECTRIC
- UGE UNDERGROUND ELECTRIC
- W WATER LINE
- TELE TELEPHONE LINE
- S SEWER
- STM STEAM LINE
- PD PROPOSED DRAIN
- EASMENT



VICINITY MAP  
 NOT TO SCALE



AREA MAP  
 NOT TO SCALE

#### General Notes

1. THE UTILITIES HAVE NOT BEEN IDENTIFIED AND WILL IMPACT THE DESIGN OF THE UNDERGROUND TRANSMISSION LINE AT THE LOCATION OF ANY CROSSINGS.
2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY. THE AERIAL TRANSMISSION EASEMENT HAS BEEN ESTABLISHED BY SURVEY.
3. TOPOGRAPHY IS BASED ON AN AERIAL LIDAR SURVEY AND SATELLITE IMAGERY, THEREFORE GRADES ARE APPROXIMATE. AN ON THE GROUND DETAIL SURVEY WILL BE REQUIRED FOR DESIGN.
4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS.
5. ALL EXISTING ROAD MARKINGS ARE ESTIMATED.
6. CONTRACTOR IS RESPONSIBLE FOR PLACING SILT FENCE OR OTHER APPROVED EROSION CONTROL DEVICES. WETLANDS HAVE NOT BEEN DELINEATED AND HAVE NOT BEEN CONSIDERED FOR DESIGN.
7. CONTRACTOR SHALL INSTALL SILT SACK OR APPROVED EQUAL TO ALL CATCH BASINS OR CURB INLETS WITHIN THE DEFINED WORK ZONE.
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9. ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)  
 DESIGN ENGINEER: JOSEPH SPERRY

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)  
 WORK ORDER NUMBER:

POWER ENGINEERS  
 PROJECT ENGINEER: TODD GOYETTE

POWER ENGINEERS  
 PROJECT NUMBER: 133007

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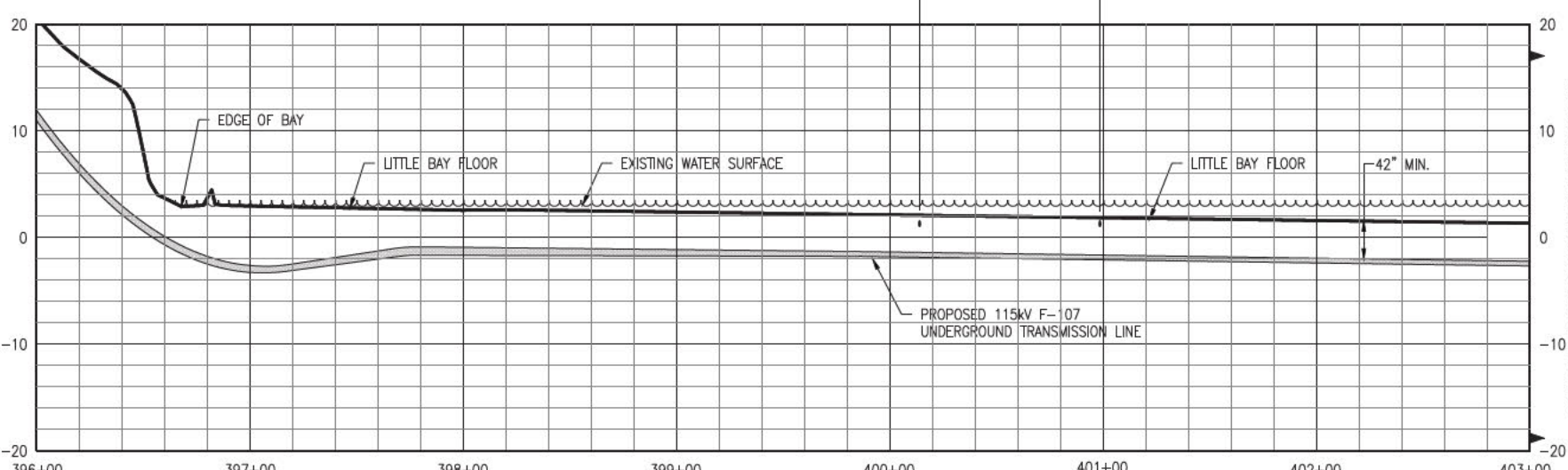
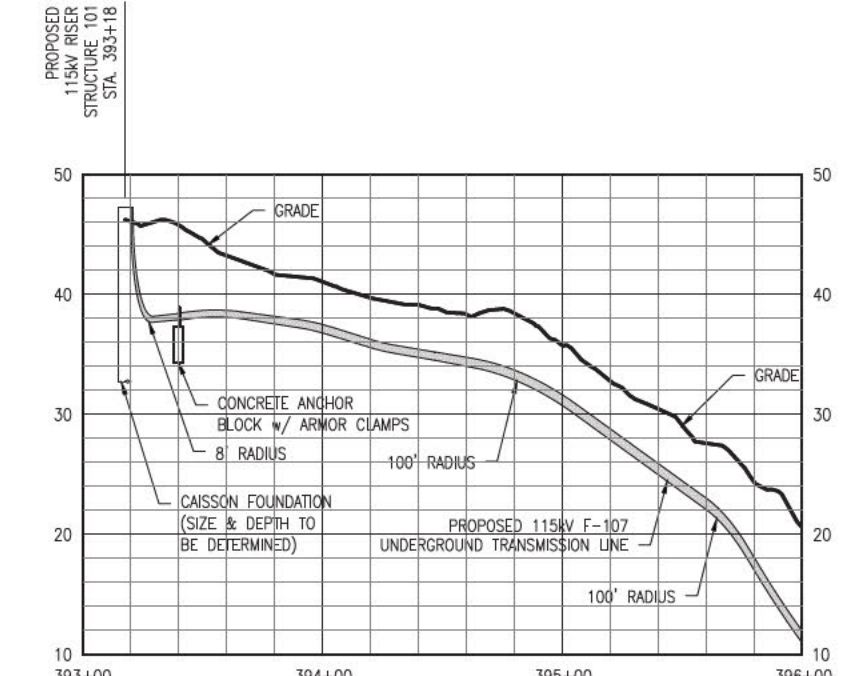
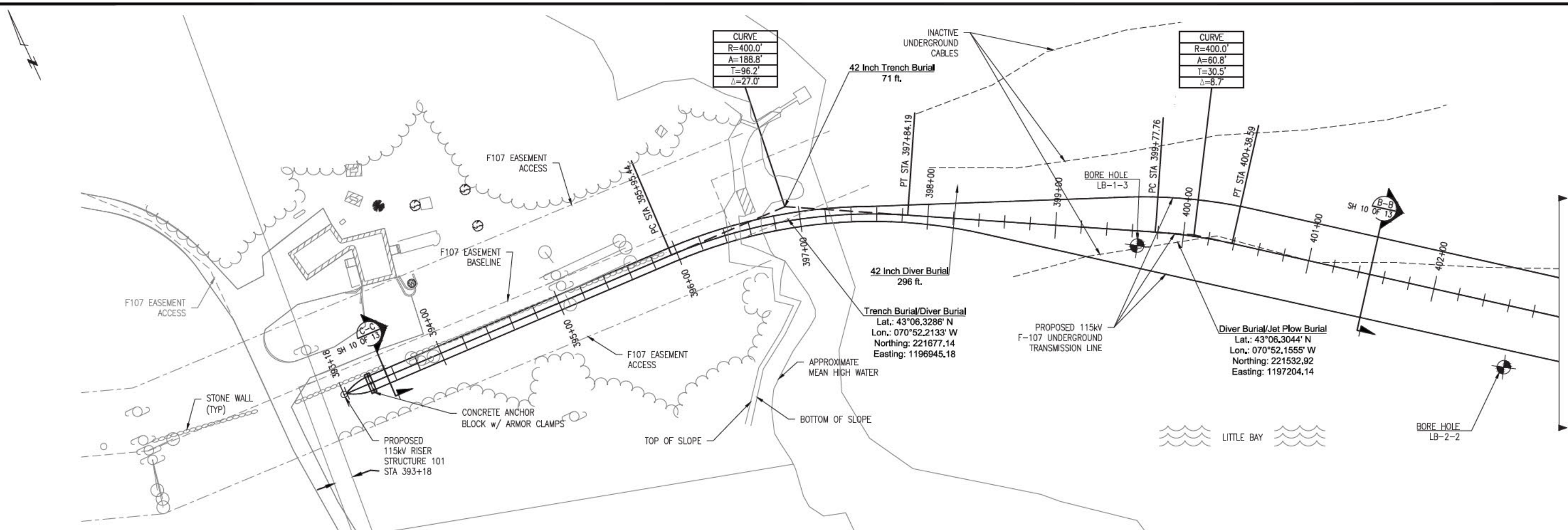
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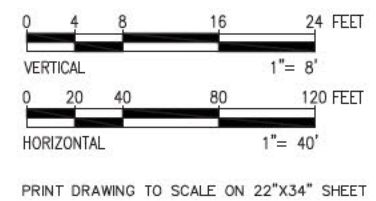
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 TOWN: NEWINGTON  
 TRANSMISSION LINE: LINE  
 MILE NO: 8 & 9  
 DISCIPLINE/SHT NO.  
 SHEET 1 OF 13  
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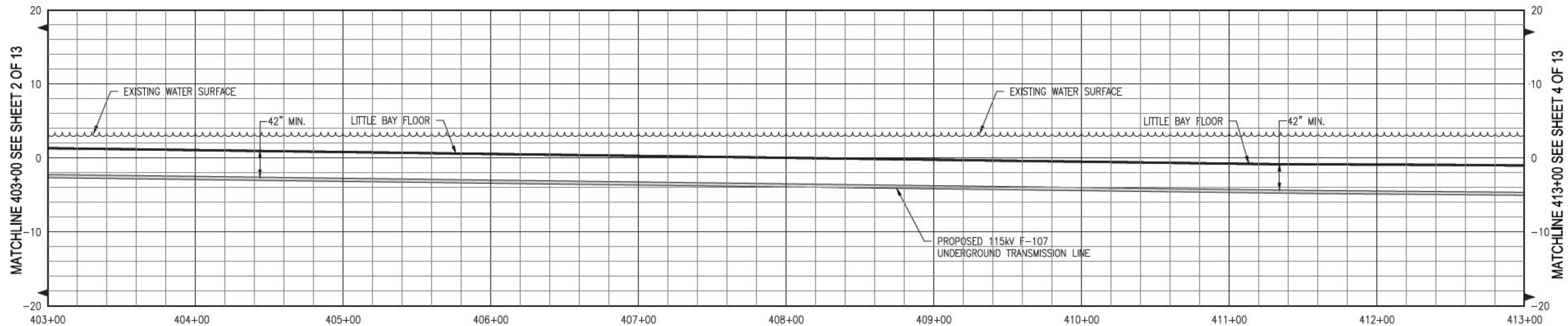
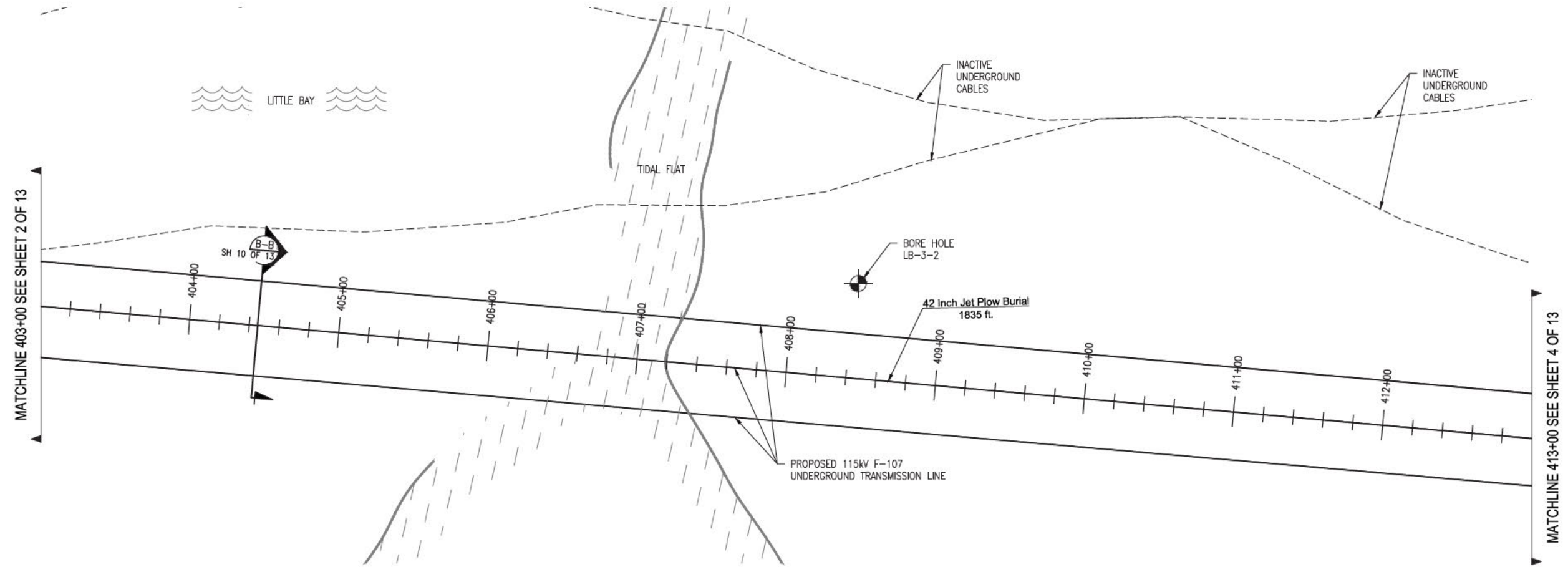
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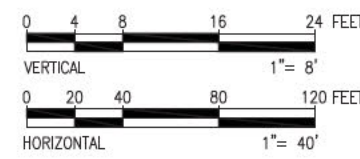
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CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW  
DATE: 06/25/2015  
SCALE: H. 1"=40', V. 1"=8'  
T 11  
SHEET 2 OF 13  
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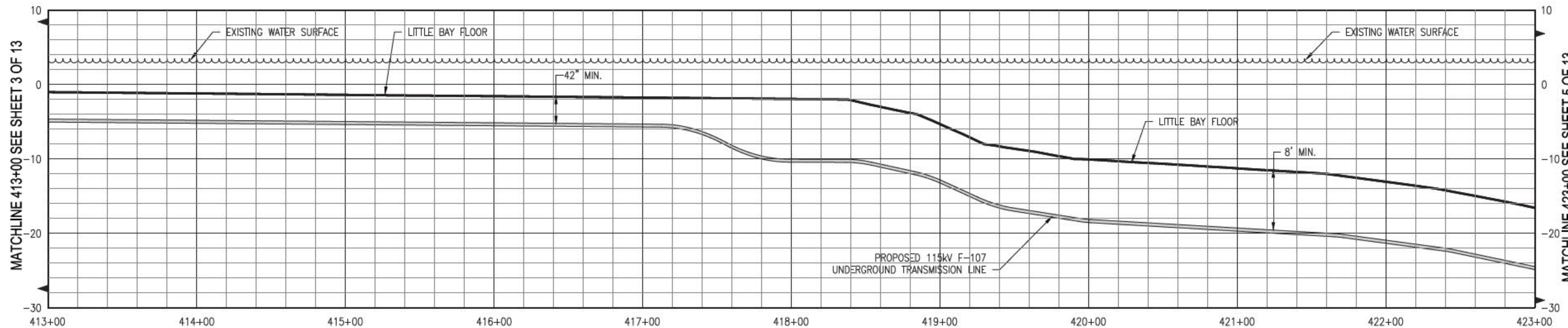
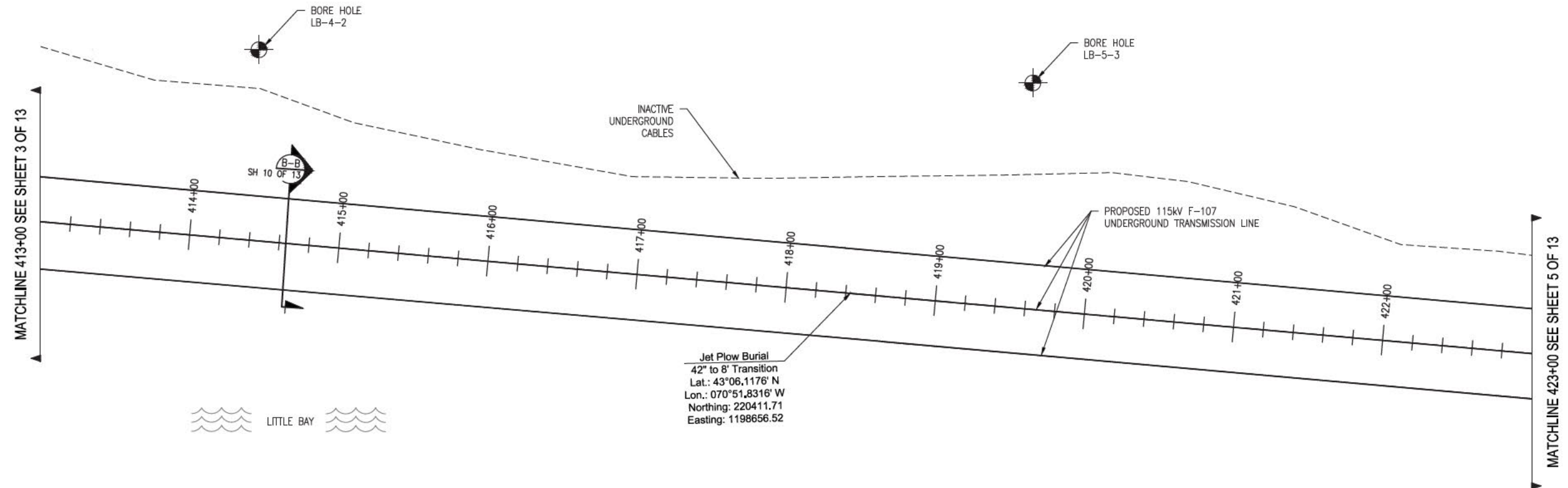
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 UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE VIEW  
 SCALE: H. 1"=40', V. 1"=8'

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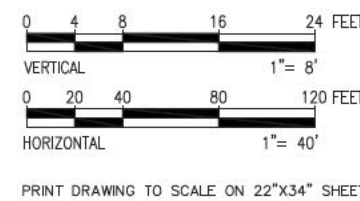
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 MILE NO: 8 & 9  
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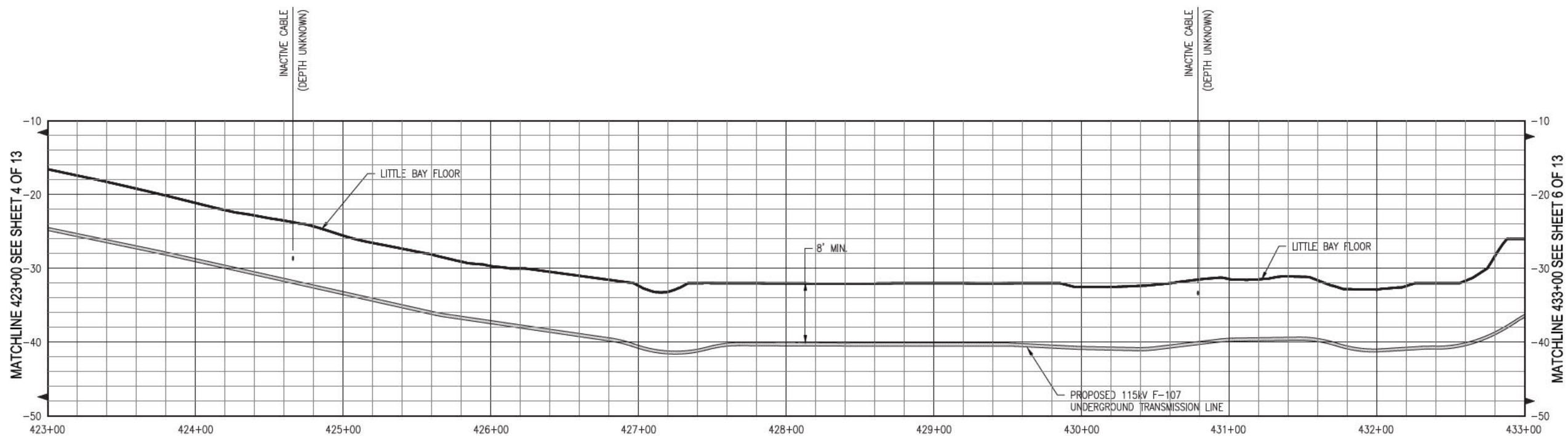
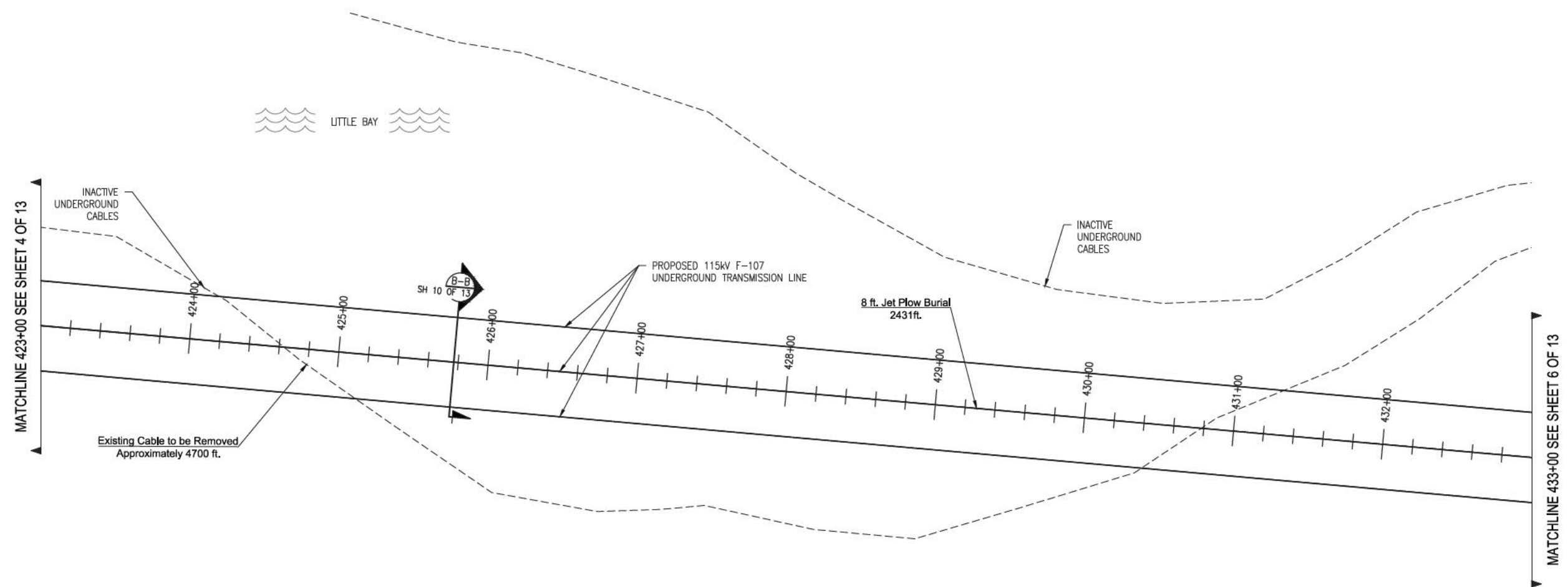
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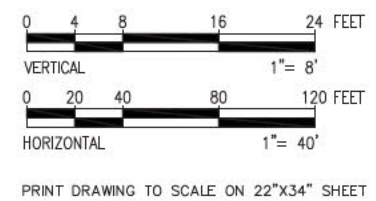
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UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H. 1"=40', V. 1"=8'

T 11  
DATE: 06/25/2015

SEE: REG: CAR: TSB  
DW: REG: APP:  
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LINE  
MILE NO: 8 & 9  
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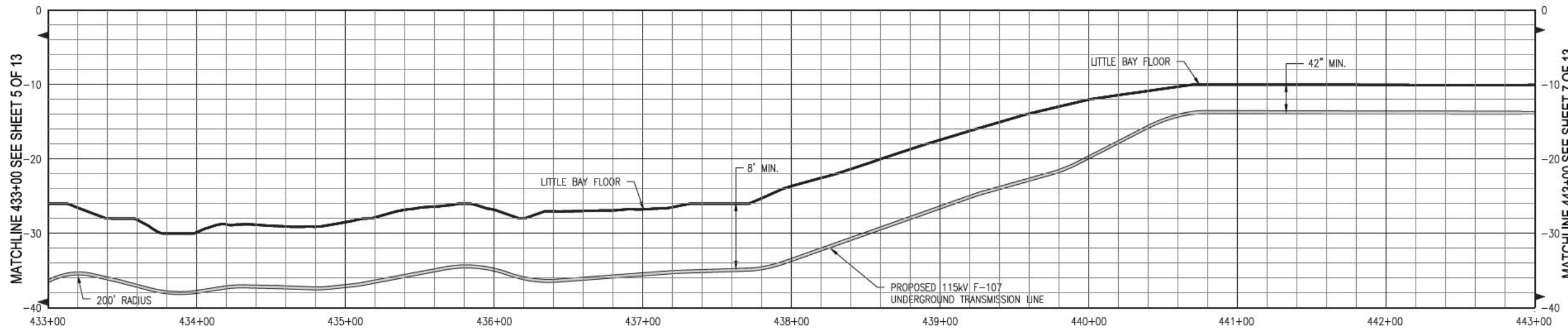
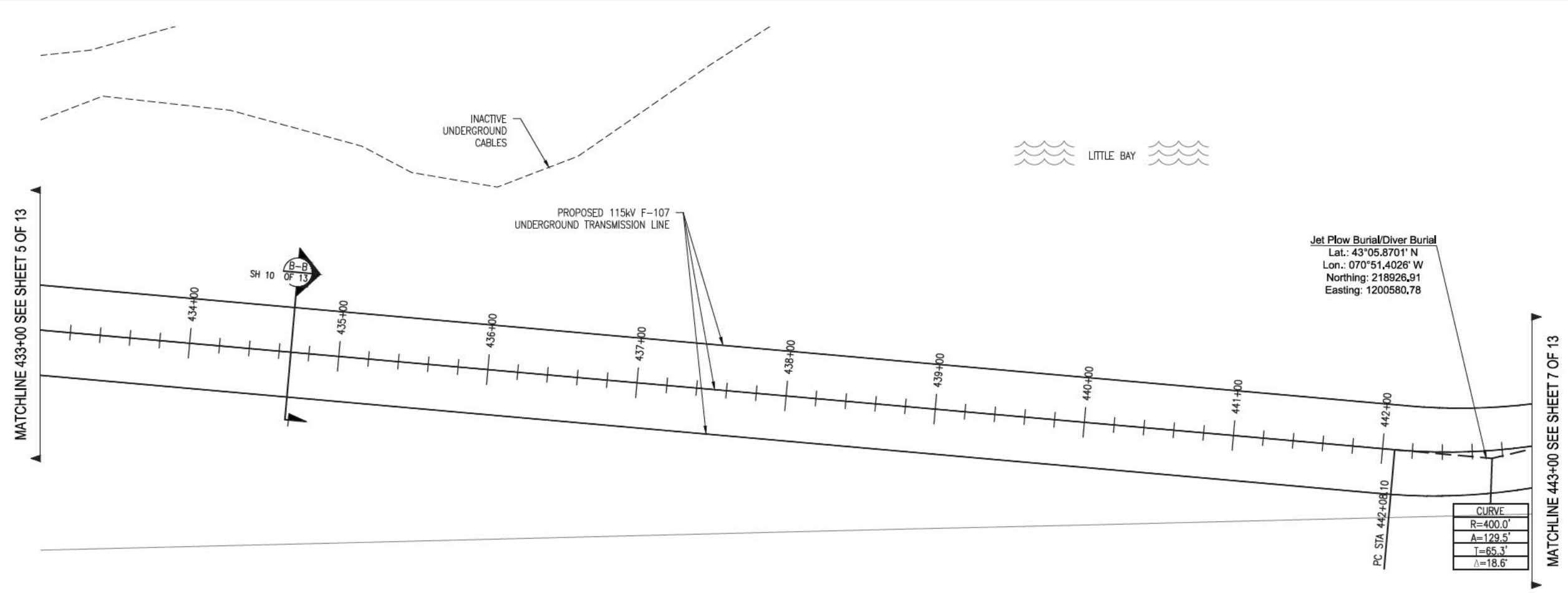


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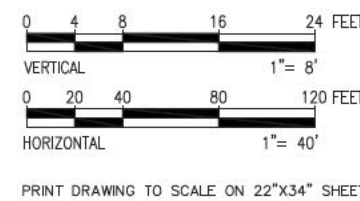
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CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE	T	11
PLAN AND PROFILE VIEW		
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SHEET 5 OF 13		
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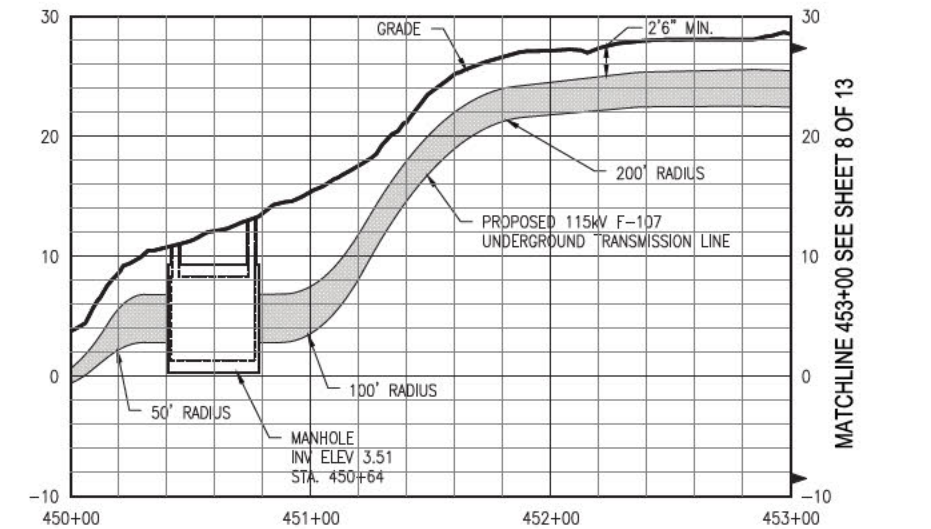
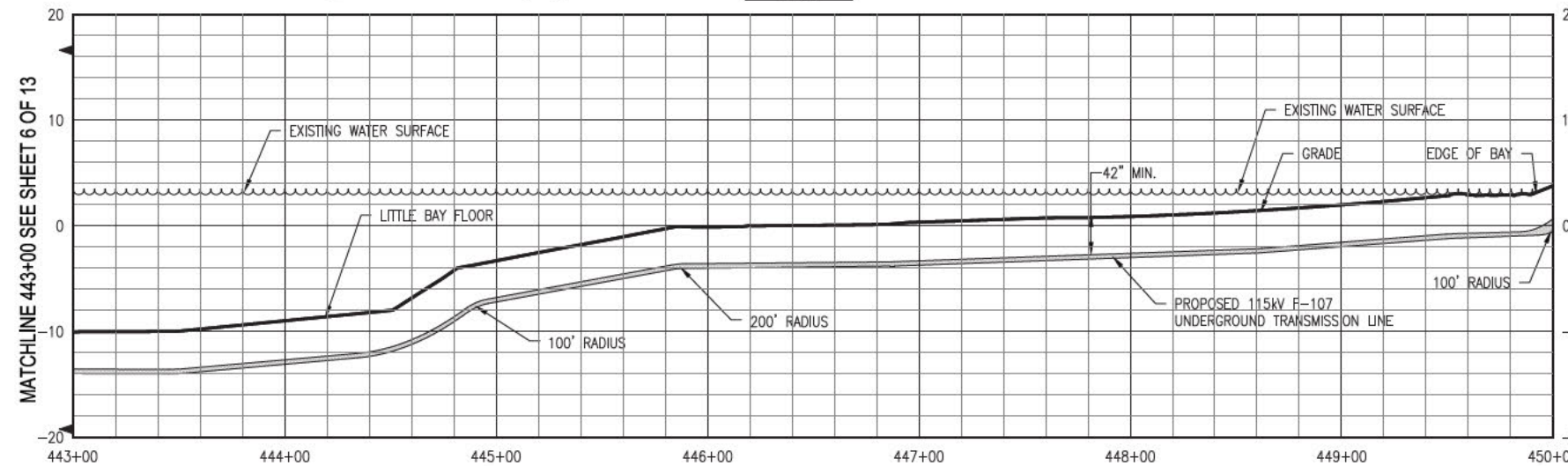
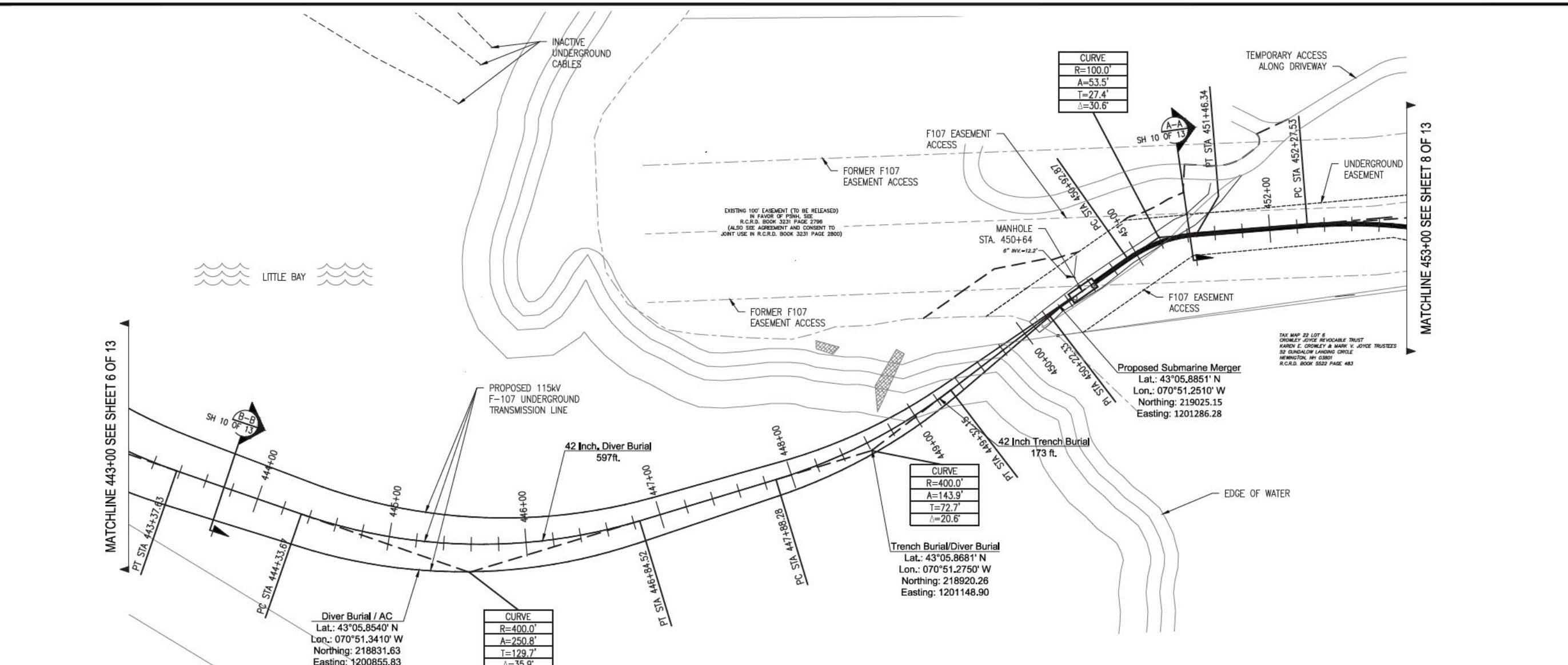
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8	ISSUE FOR PERMIT RELOCATE RISER	12/7/15	REG	SOO	TSB
7	ISSUE FOR PERMIT	12/14/15	REG	SOO	TSB
6	ISSUE FOR PERMIT	12/14/15	REG	SOO	TSB

**EVERSOURCE ENERGY**

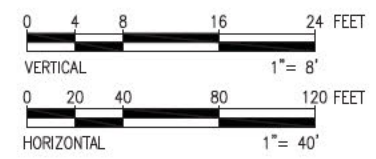
CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
DATE: 06/25/2015  
SCALE: H. 1"=40', V. 1"=8'

T	11
---	----

SEE REG. CHARTER  
OWN. REG. APP.  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO. 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 6 OF 13  
F10743003



- General Notes**
1. THE UTILITIES HAVE NOT BEEN IDENTIFIED AND WILL IMPACT THE DESIGN OF THE UNDERGROUND TRANSMISSION LINE AT THE LOCATION OF ANY CROSSINGS.
  2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY. THE AERIAL TRANSMISSION EASEMENT HAS BEEN ESTABLISHED BY SURVEY.
  3. TOPOGRAPHY IS BASED ON AN AERIAL LIDAR SURVEY AND SATELLITE IMAGERY, THEREFORE GRADES ARE APPROXIMATE. AN ON THE GROUND DETAIL SURVEY WILL BE REQUIRED FOR DESIGN.
  4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS.
  5. ALL EXISTING ROAD MARKINGS ARE ESTIMATED.
  6. CONTRACTOR IS RESPONSIBLE FOR PLACING SILT FENCE OR OTHER APPROVED EROSION CONTROL DEVICES. WETLANDS HAVE NOT BEEN DELINEATED AND HAVE NOT BEEN CONSIDERED FOR DESIGN.
  7. CONTRACTOR SHALL INSTALL SILT SACK OR APPROVED EQUAL TO ALL CATCH BASINS OR CURB INLETS WITHIN THE DEFINED WORK ZONE.
  8. CONTRACTOR SHALL ENSURE PROPER CONTROLS ARE IN PLACE SO WORKERS DO NOT TRACK SEDIMENT PAST THE LIMITS OF WORK.
  9. ALL VERTICAL RADII ARE 500' UNLESS OTHERWISE NOTED



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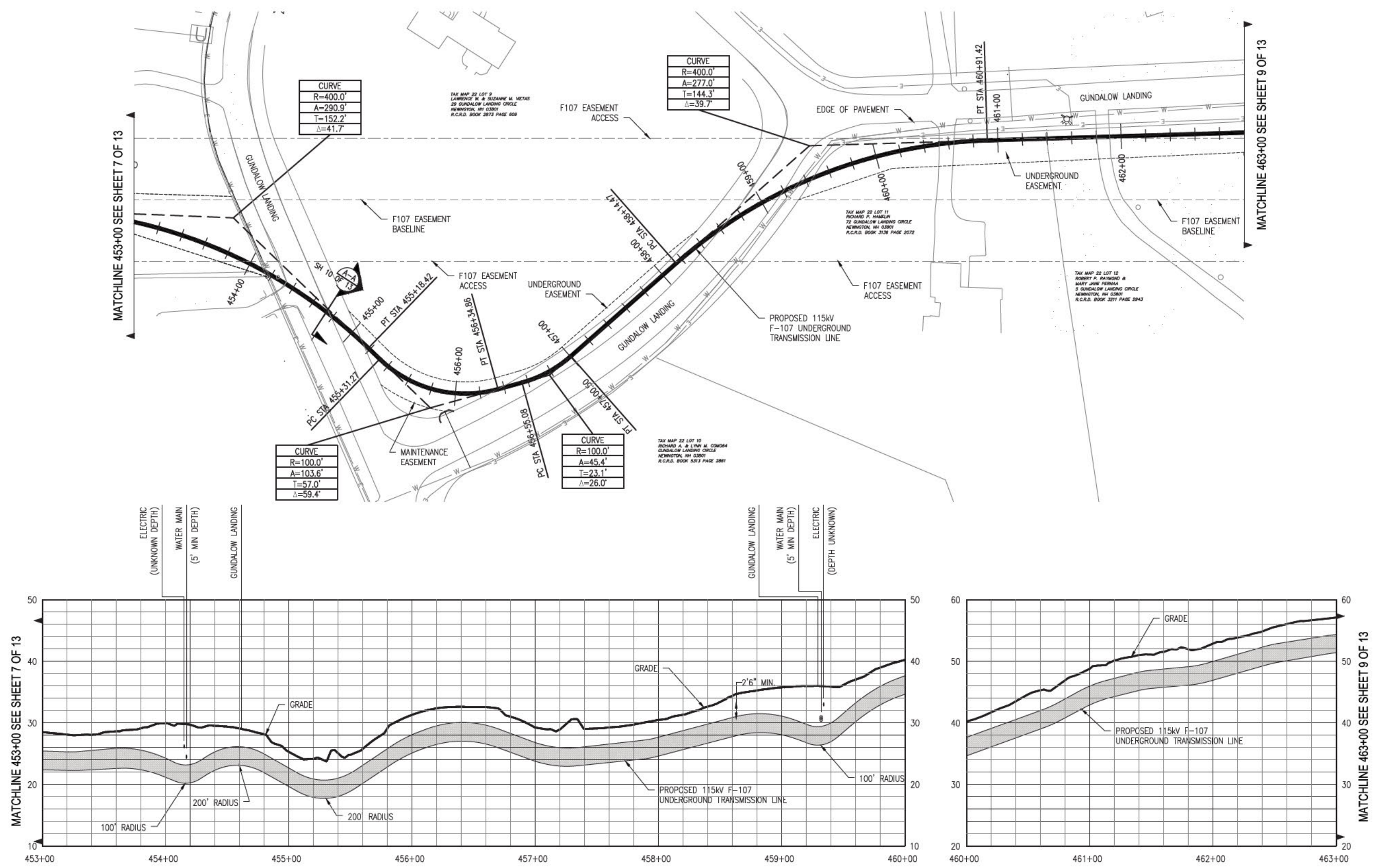
NO.	REVISION	DATE	BY	CHKD.	APPV.
11	REVISED FOR DESIGN	1/26/17	REG	SCG	TSBG
10	REVISED FOR DESIGN	9/7/16	REG	SCG	TSBG
9	ISSUE FOR BID	8/7/16	REG	SCG	TSBG
8	ISSUE FOR PERMIT	12/7/15	REG	SCG	TSBG
7	ISSUE FOR PERMIT	12/7/15	REG	SCG	TSBG
6	ISSUE FOR PERMIT	12/7/15	REG	SCG	TSBG
5	ISSUE FOR PERMIT	12/7/15	REG	SCG	TSBG

**EVERSOURCE**  
ENERGY

CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
DATE: 06/25/2015  
SCALE: H: 1"=40', V: 1"=8'

TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
FILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 7 OF 13  
F10743003





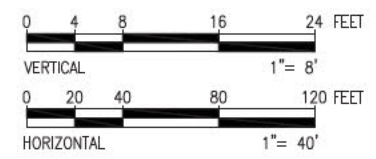
CURVE	
R=400.0'	
A=290.9'	
T=152.2'	
Δ=41.7'	

CURVE	
R=400.0'	
A=277.0'	
T=144.3'	
Δ=39.7'	

CURVE	
R=100.0'	
A=103.6'	
T=57.0'	
Δ=59.4'	

CURVE	
R=100.0'	
A=45.4'	
T=23.1'	
Δ=26.0'	

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11	REVISED FOR DESIGN	1/20/17	REG	SOO	TSO
10	REVISED FOR DESIGN	9/16/16	REG	SOO	TSO
9	ISSUE FOR BID	6/7/16	REG	SOO	TSO
8	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
7	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
6	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
5	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
4	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
3	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
2	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO
1	ISSUE FOR PERMIT	12/7/15	REG	SOO	TSO

**EVERSOURCE ENERGY**

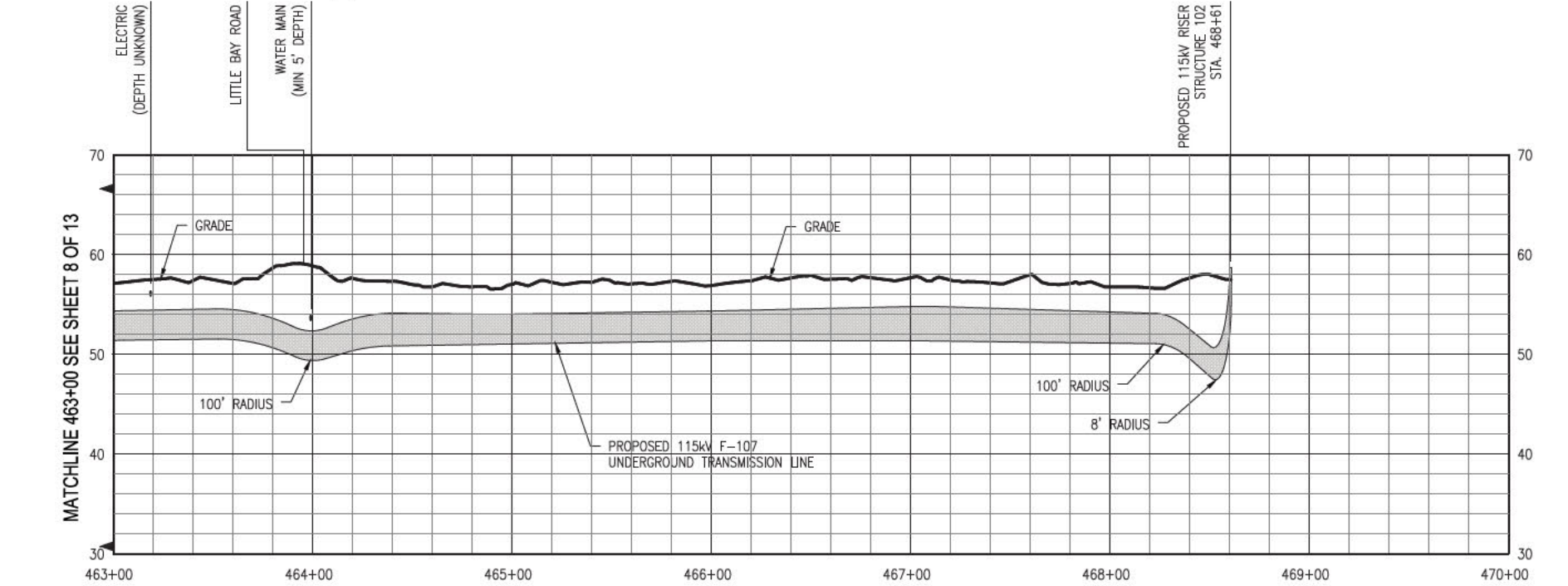
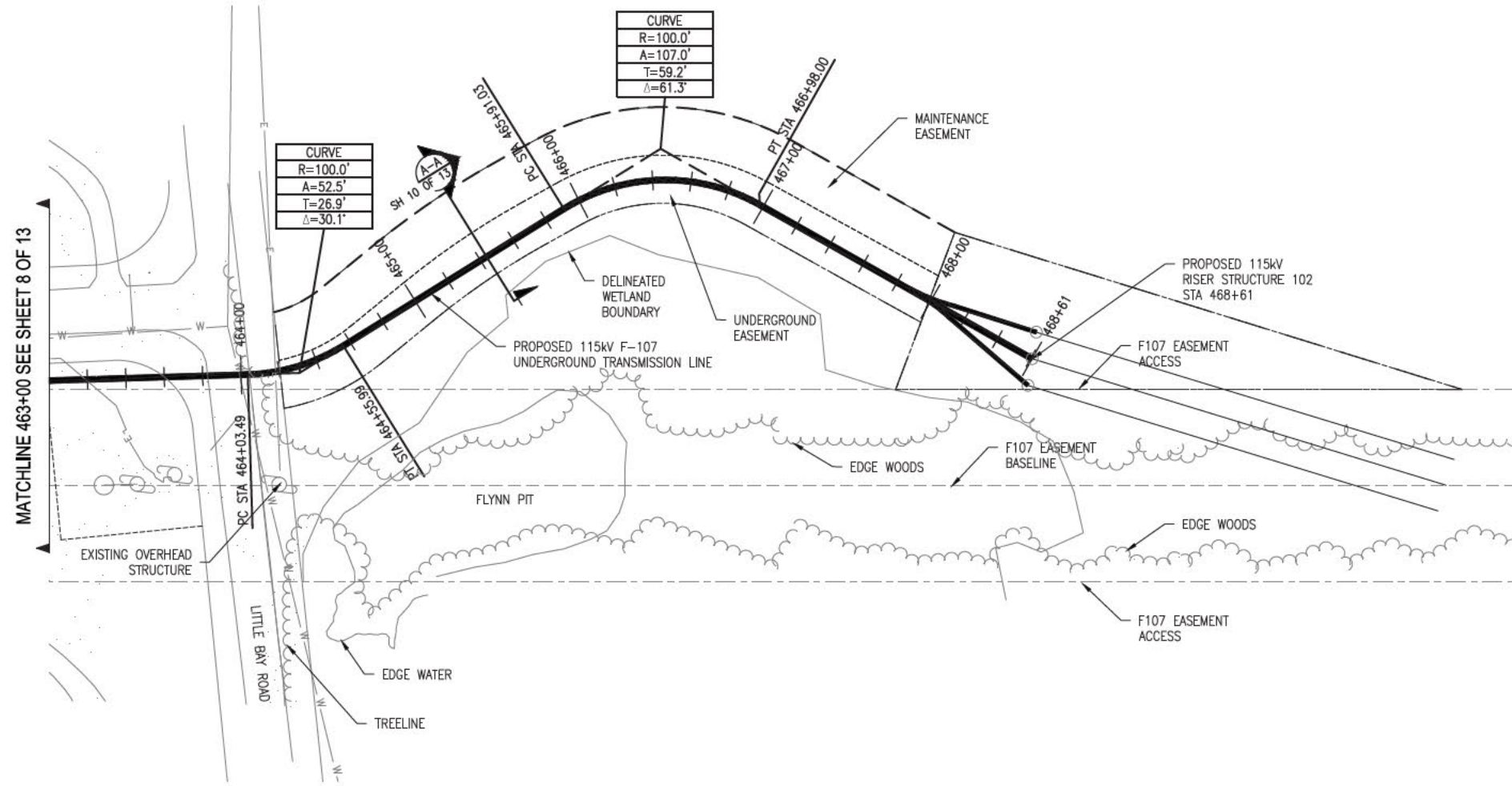
CIRCUIT F-107 115KV UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H: 1"=40', V: 1"=8'

T 11

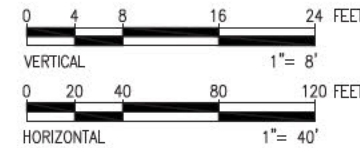
DATE: 02/25/2015

SHEET 8 OF 13  
110743003





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11	REVISED FOR DESIGN	1/20/17	REG	SCS	TSB
10	REVISED FOR DESIGN	9/16/16	REG	SCS	TSB
9	ISSUE FOR BID	8/2/16	REG	SCS	TSB
8	ISSUE FOR PERMIT	12/28/15	REG	SCS	TSB
7	ISSUE FOR PERMIT	12/28/15	REG	SCS	TSB
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5	ISSUE FOR PERMIT	12/28/15	REG	SCS	TSB

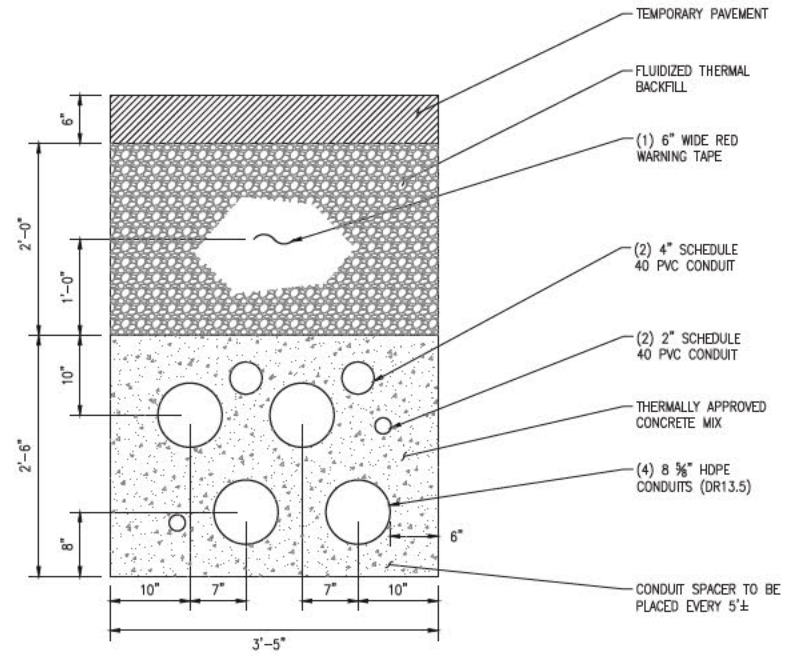
**EVERSOURCE ENERGY**

CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H. 1"=40', V. 1"=8'

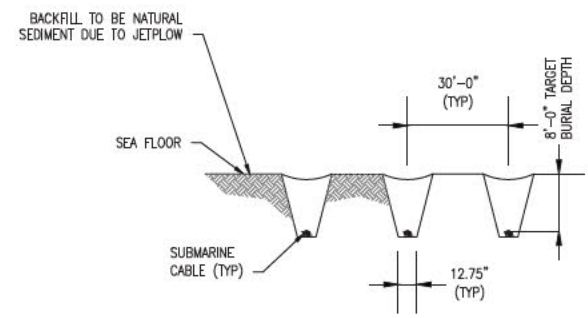
T 11  
DATE: 08/25/2015

DES. REG. CHKD. TSB  
DWG. REG. APP. TSB  
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO. 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 9 OF 13  
F10743003

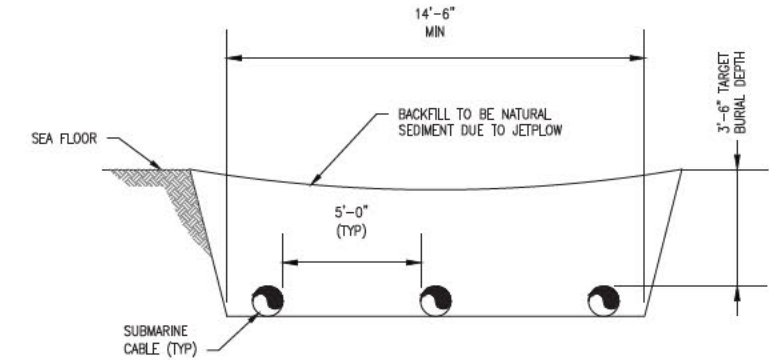
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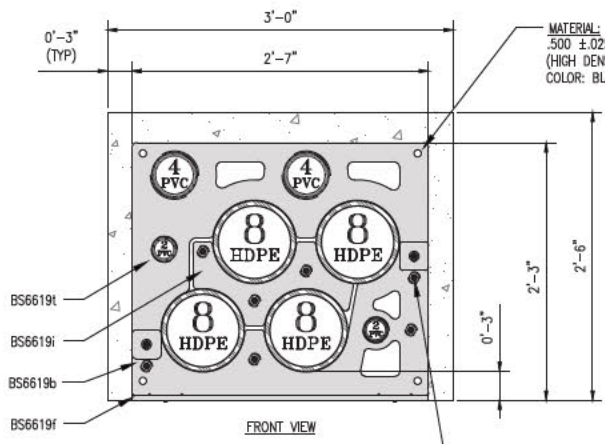
TYP TRENCH DETAIL SECTION (A-A) SH 10 OF 13 SCALE N.T.S.



TYP SUBMARINE JET FLOW SECTION (B-B) SH 10 OF 13 SCALE N.T.S.

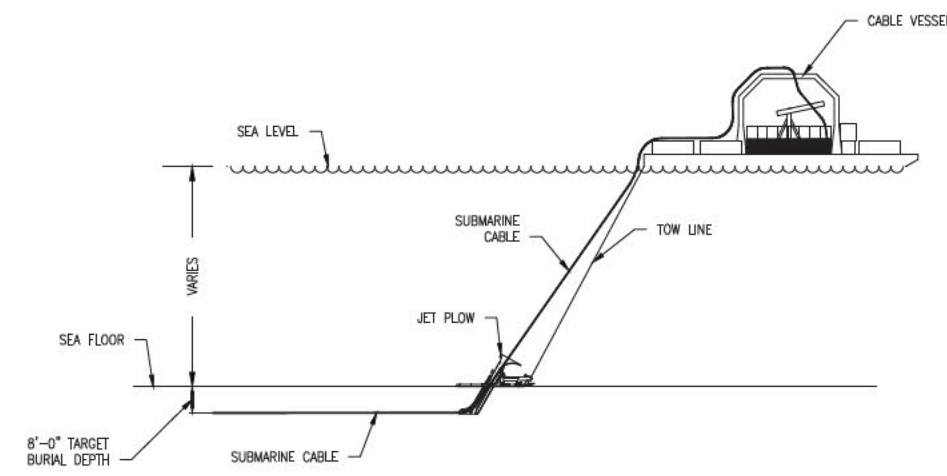
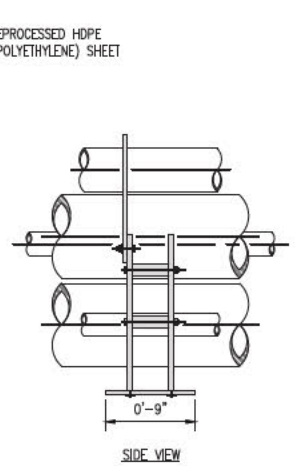


TYP SUBMARINE TRENCH SECTION (C-C) SH 10 OF 13 SCALE N.T.S.

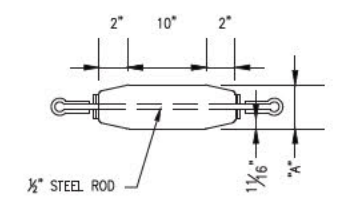


THE NUTS, BOLTS & WASHERS REQUIRED TO SECURE THE TOP SPACER TO THE BASE SPACER ARE IN A BAG THAT IS ATTACHED TO THE TOP SPACER

UNDERGROUND DEVICES SPACER ARRANGEMENT DETAIL (1) SH 10 OF 13 SCALE N.T.S.



TYP SUBMARINE ELEVATION DETAIL (2) SH 10 OF 13 SCALE N.T.S.



TYP MANDREL DETAIL (3) SH 10 OF 13 SCALE N.T.S.

- NOTES:
1. STAGGER BELL ENDS.
  2. AVOID STANDING ON CONDUIT.
  3. BELL ENDS SHALL BE INSTALLED ALL IN THE SAME DIRECTION BETWEEN TERMINATIONS. (SEE PULL DIRECTION DETAIL.)
  4. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
  5. ALL DUCT SPACERS ARE UNDERGROUND DEVICES "WUNPEECE" SPACERS, OR APPROVED EQUIVALENT.

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PRINT DRAWING TO SCALE ON 22"x34" SHEET

11	REVISED FOR DESIGN	12/14/13	REG	SCG	TS&S
10	REVISED FOR DESIGN	9/14/13	REG	SCG	TS&S
9	ISSUE FOR BID	8/15/13	REG	SCG	TS&S
8	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
7	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
6	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
5	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
4	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
3	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
2	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S
1	ISSUE FOR PERMIT	12/14/13	REG	SCG	TS&S

CIRCUIT F-107 115KV UNDERGROUND TRANSMISSION LINE TRENCH AND JET FLOW DETAILS SCALE N.T.S.

DATE: 08/29/2015

7 11

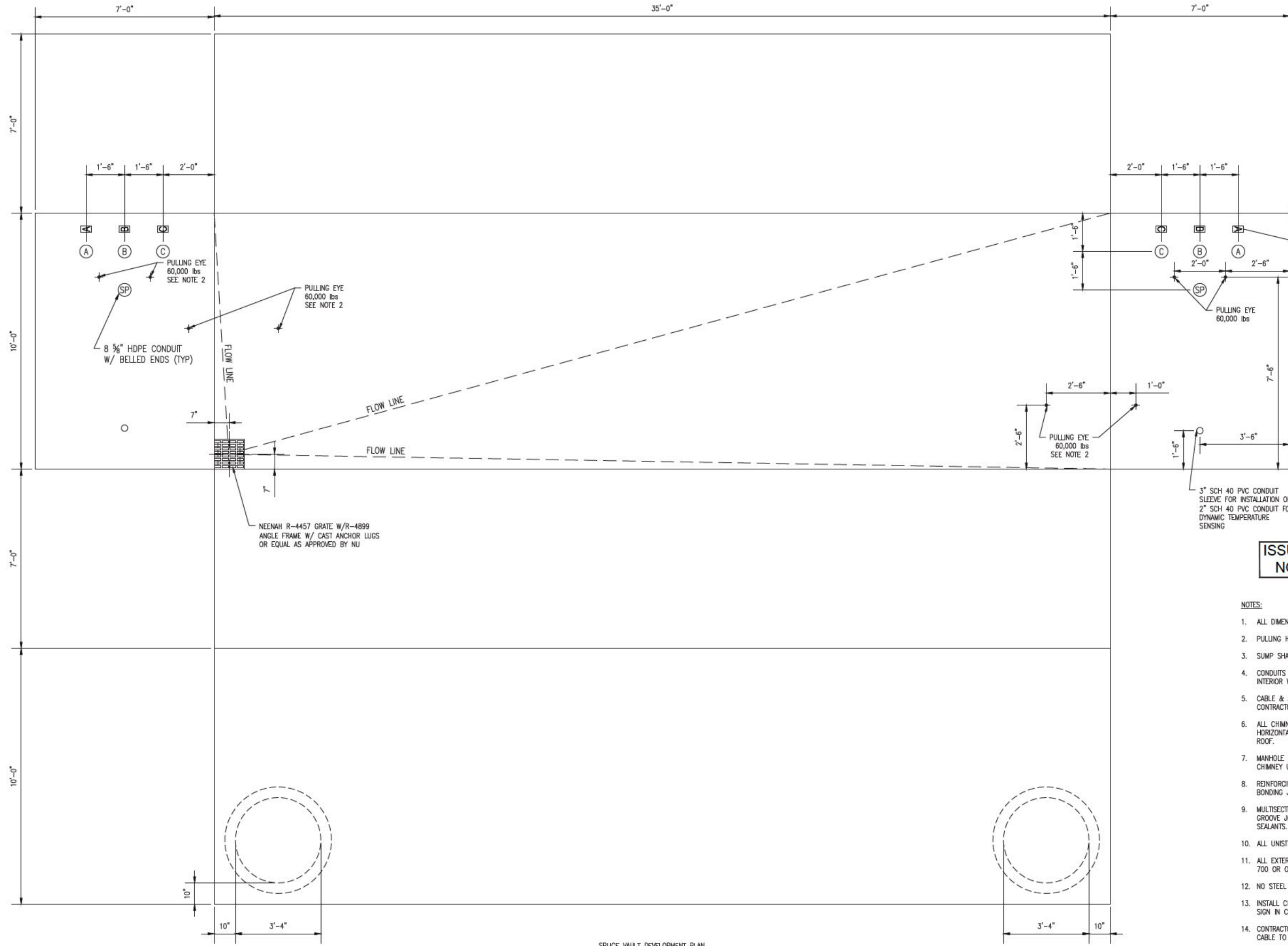
DESIGN: REG CHRY/TSO  
DRAW: REG APR

TOWN: NEWINGTON  
TRANSMISSION LINE: LINE

MILE NO: 8 & 9  
DISCIPLINE/SHT NO.

SHEET 10 OF 13  
F10705060

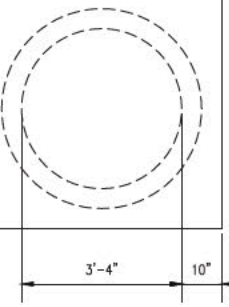
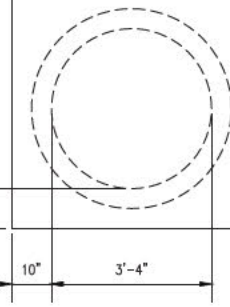




DETAIL 2  
SH 13 OF 13

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- NOTES:
1. ALL DIMENSIONS ARE INSIDE DIMENSIONS.
  2. PULLING HARDWARE SHALL BE GOOD FOR 60,000lbs OF TENSION, MINIMUM.
  3. SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.
  4. CONDUITS MUST ALWAYS BE INSTALLED IN THE SAME DIRECTION (BELL END FLUSH WITH INTERIOR WALL OF VAULT).
  5. CABLE & ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL SPLICE VAULT DEPTHS. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY & ENTRY/EXIT REQUIREMENTS.
  6. ALL CHIMNEY RINGS SHALL BE MORTARED OR OTHERWISE "KEYED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO SPLICE VAULT ROOF.
  7. MANHOLE RING SHALL BE SECURELY FASTENED TO THE SPLICE VAULT ROOF OR CHIMNEY USING INSERTS AND BOLTS OR OTHER MEANS WITH PRIOR APPROVAL.
  8. REINFORCING STEEL SHALL BE BONDED TO 500kcmil SOFT DRAWN BARE COPPER BONDING JUMPERS.
  9. MULTISECTION SPLICE VAULTS SHALL INCORPORATE EITHER SHIPLAP OR TONGUE AND GROOVE JOINTS UTILIZING APPROPRIATE SILICONE, POLYMERIC OR ELASTOMERIC SEALANTS.
  10. ALL UNISTRUT TO BE GROUNDED BY CONTRACTOR.
  11. ALL EXTERNAL SURFACES OF VAULT SHALL BE SEALED USING SONNEDORN HYDROCID 700 OR OWNER APPROVED EQUIVALENT.
  12. NO STEEL REINFORCING BAR MAY ENCAPSULATE ANY INDIVIDUAL CONDUIT.
  13. INSTALL CIRCUIT IDENTIFICATION LABELS ON VAULT WALL AND INSTALL DANGER WARNING SIGN IN CHIMNEY.
  14. CONTRACTOR SHALL PROVIDE RACKING FOR 50' OF DYNAMIC TEMPERATURE SENSING CABLE TO BE COILED ON THE WALL OPPOSITE THE CABLE SPLICES.



SPLICE VAULT DEVELOPMENT PLAN  
DETAIL 1  
SCALE 1" = 2'-0" SH 11 OF 13

NO.	REVISION	DATE	BY	CHKD	APPRV.
11	REVISED FOR DESIGN	1/20/17	REG	SOE	TSB
10	REVISED FOR DESIGN	9/16/16	REG	SOE	TSB
9	ISSUE FOR BID	8/15/16	REG	SOE	TSB
8	ISSUE FOR PERMIT	12/7/13	REG	SOE	TSB
7	ISSUE FOR PERMIT	12/7/13	REG	SOE	TSB
6	ISSUE FOR PERMIT	12/14/13	REG	SOE	TSB

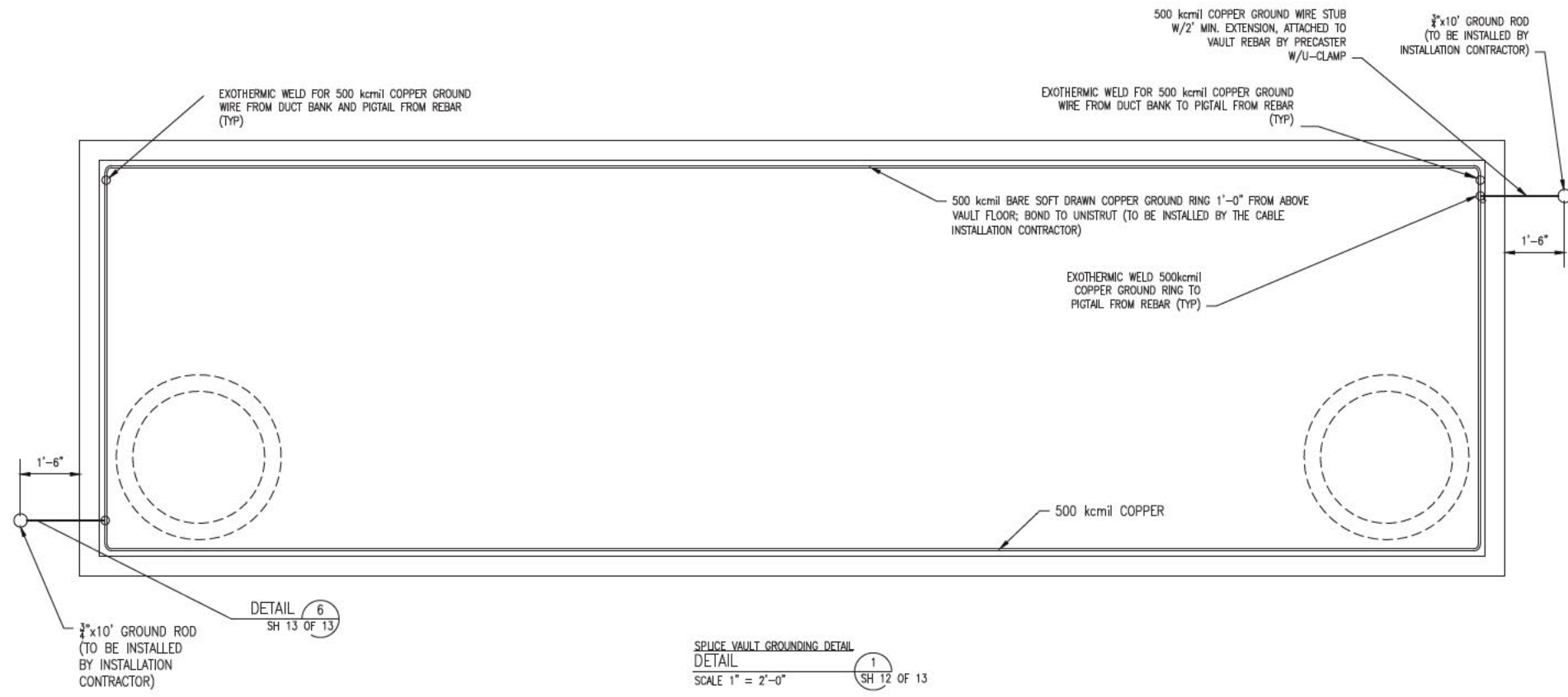
**EVERSOURCE ENERGY**

T 11

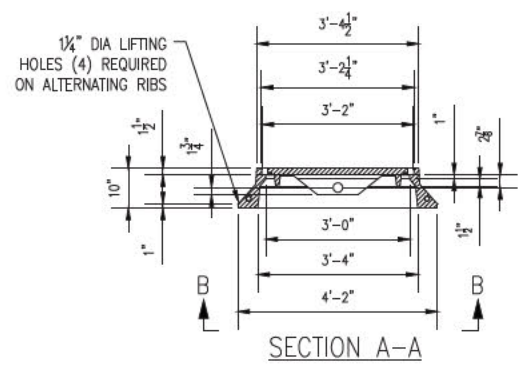
CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
SPLICE VAULT DETAIL SHEET  
SCALE: N.T.S.  
DATE: 06/25/2015

DES. REG. CHKD. TSJ  
DRW. REG. APR. TSJ  
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO. 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 11 OF 13  
F10705060

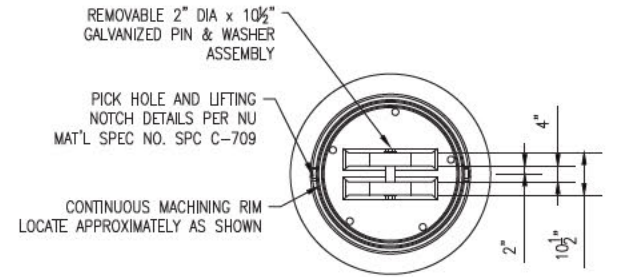




**SPLICE VAULT GROUNDING DETAIL**  
 DETAIL 1  
 SCALE 1" = 2'-0"  
 SH 12 OF 13

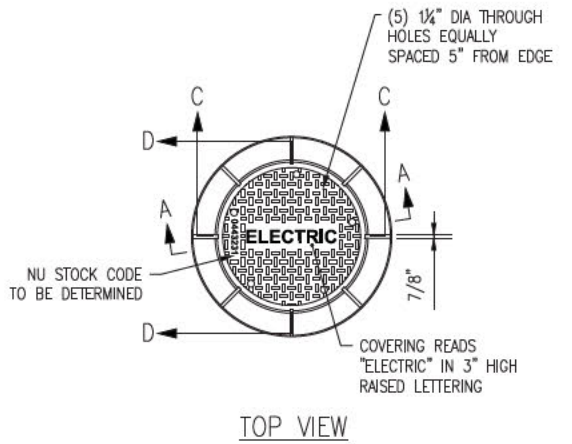


**SECTION A-A**

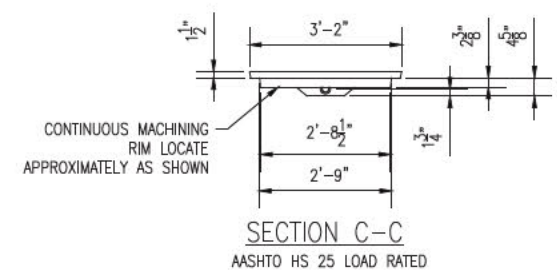


**SECTION B-B**  
 AASHTO HS 25 LOAD RATED

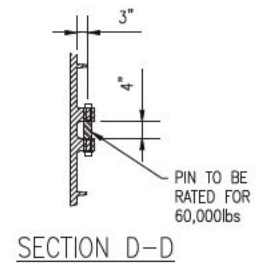
**SPLICE VAULT FRAME DETAIL**  
 DETAIL 2  
 SCALE N.T.S.  
 SH 12 OF 13



**TOP VIEW**



**SECTION C-C**  
 AASHTO HS 25 LOAD RATED



**SECTION D-D**

**TETHERED SPLICE VAULT LID**  
 DETAIL 3  
 SCALE N.T.S.  
 SH 12 OF 13

**ISSUE FOR SEC AMENDMENT  
 NOT FOR CONSTRUCTION**

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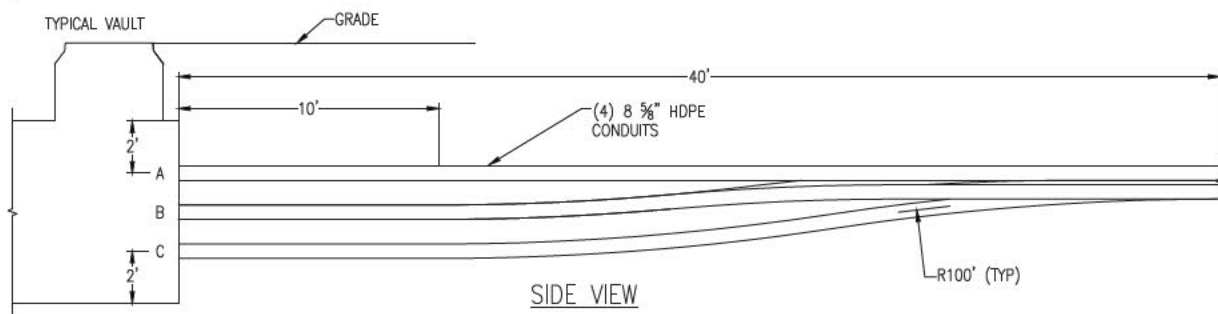
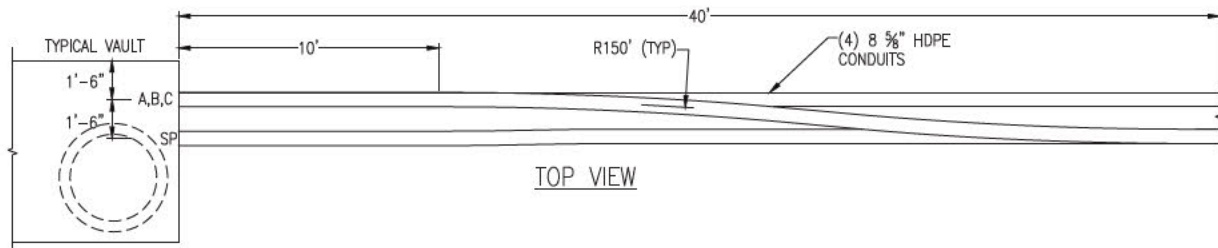
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5	ISSUE FOR PERMIT	12/14/15	REG	SCS	TSB

**EVERSOURCE ENERGY**

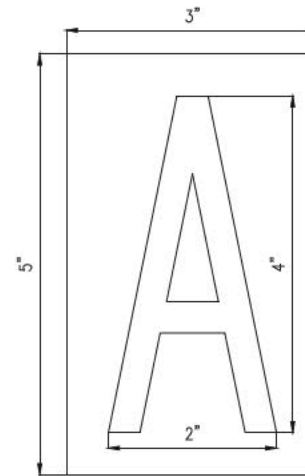
CIRCUIT F-107 115kV  
 UNDERGROUND TRANSMISSION LINE  
 SPLICE VAULT DETAIL SHEET  
 SCALE: N.T.S.  
 DATE: 06/29/2015  
 TOWN: NEWINGTON  
 TRANSMISSION LINE: LINE  
 MILE NO: 8 & 9  
 DISCIPLINE/SHT NO.  
 SHEET 12 OF 13  
 F10705060





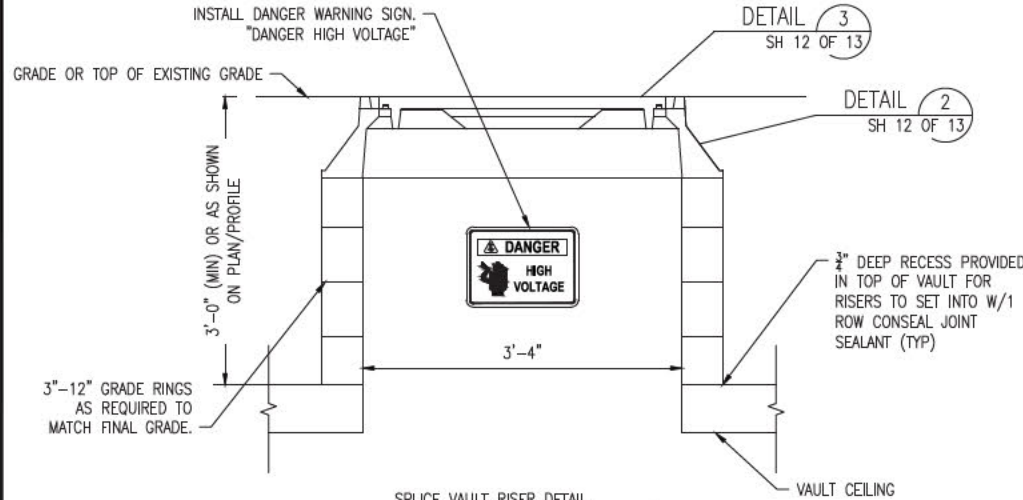


**SPLICE VAULT TRANSITION DETAIL**  
 1  
 NTS SH 13 OF 13

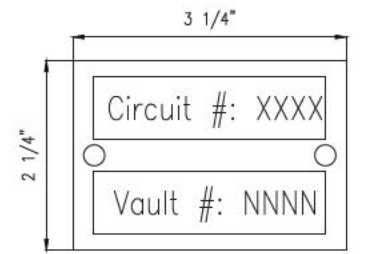


**PHASE IDENTIFICATION TAG DETAIL**  
 2  
 NTS SH 13 OF 13

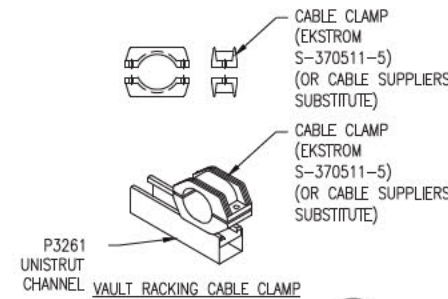
- NOTES:**
1. CHARACTER SHALL BE 4" HIGH BOLD TYPE.
  2. CHARACTER SHALL BE CENTERED ON SIGN.
  3. BACKGROUND: WHITE  
 LETTERING: BLACK  
 CHARACTERS: A, B & C AS SHOWN



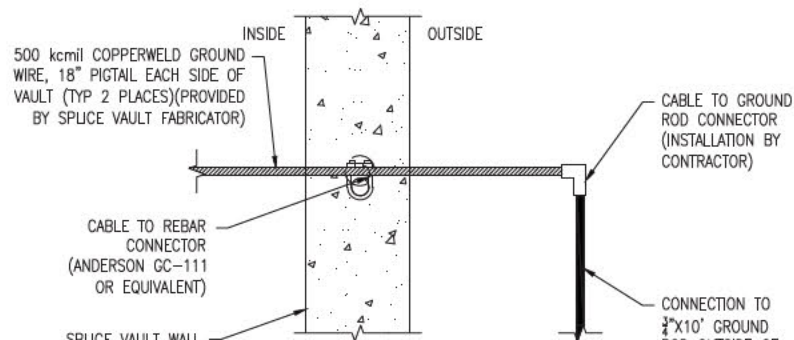
**SPLICE VAULT RISER DETAIL**  
 3  
 NTS SH 13 OF 13



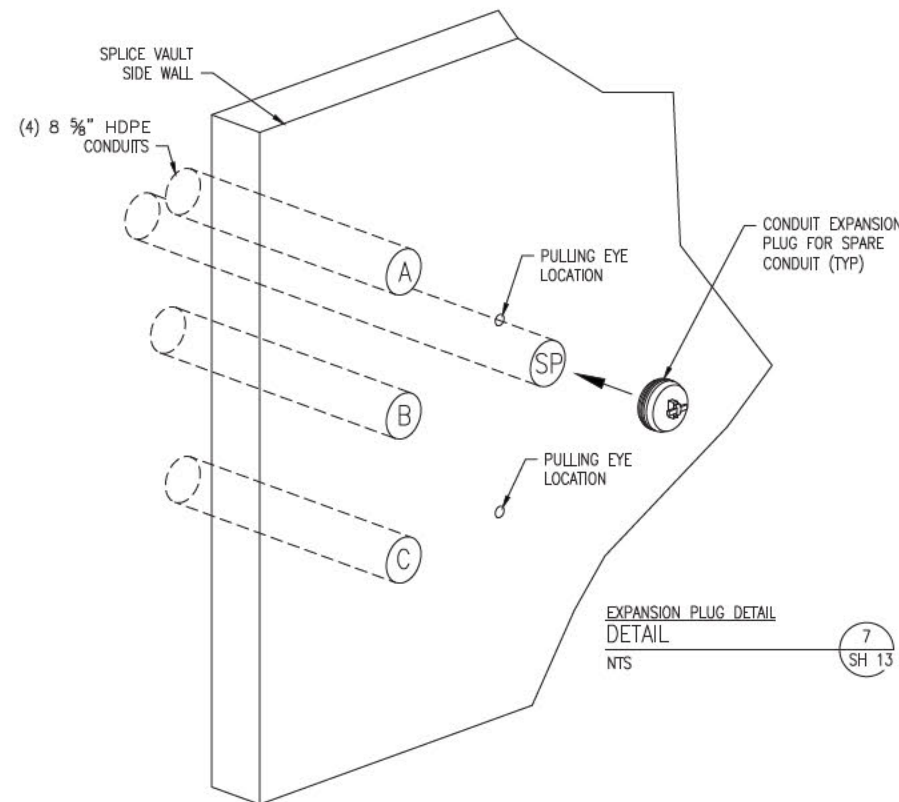
**CIRCUIT IDENTIFICATION TAG DETAIL**  
 4  
 NTS SH 13 OF 13



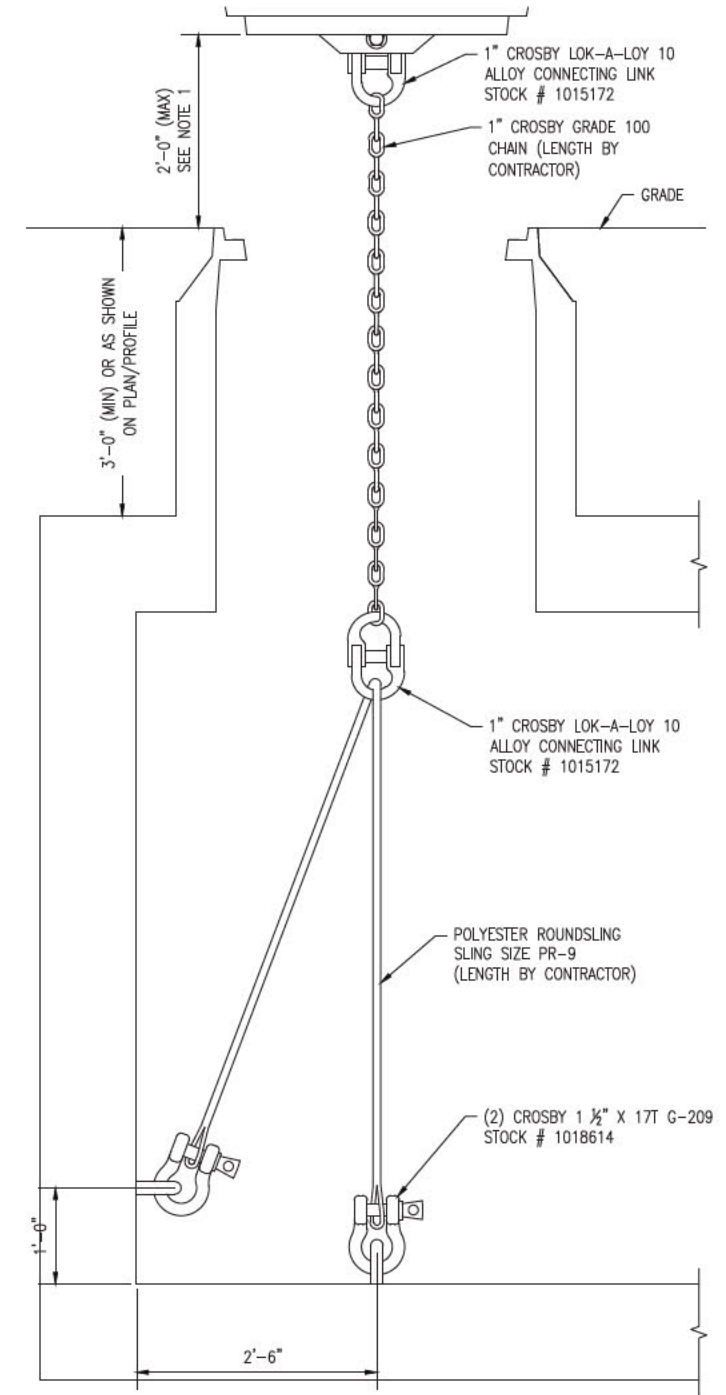
**VAULT RACKING CABLE CLAMP DETAIL**  
 5  
 NTS SH 13 OF 13



**GROUND WIRE DETAIL**  
 6  
 NTS SH 13 OF 13



**EXPANSION PLUG DETAIL**  
 7  
 NTS SH 13 OF 13



**MANHOLE TETHER DETAIL**  
 8  
 NTS SH 13 OF 13

- NOTE:**
1. CONTRACTOR TO ADJUST TETHER SYSTEM FOR MAXIMUM COVER RISE OF 24".

**ISSUE FOR SEC AMENDMENT  
 NOT FOR CONSTRUCTION**

NO.	DATE	REVISION	BY	CHKD	APPROV.
11	12/14/13	ISSUE FOR PERMIT	REG	SOO	TS62
7	12/14/13	RELOCATE RISER	REG	SOO	TS62
8	6/25/16	ISSUE FOR BID	REG	SOO	TS62
9	7/16/16	REVISED JOB DESIGN	REG	SOO	TS62
10	8/16/16	REVISED JOB DESIGN	REG	SOO	TS62
11	1/20/17	REVISED JOB DESIGN	REG	SOO	TS62

**EVERSOURCE ENERGY**

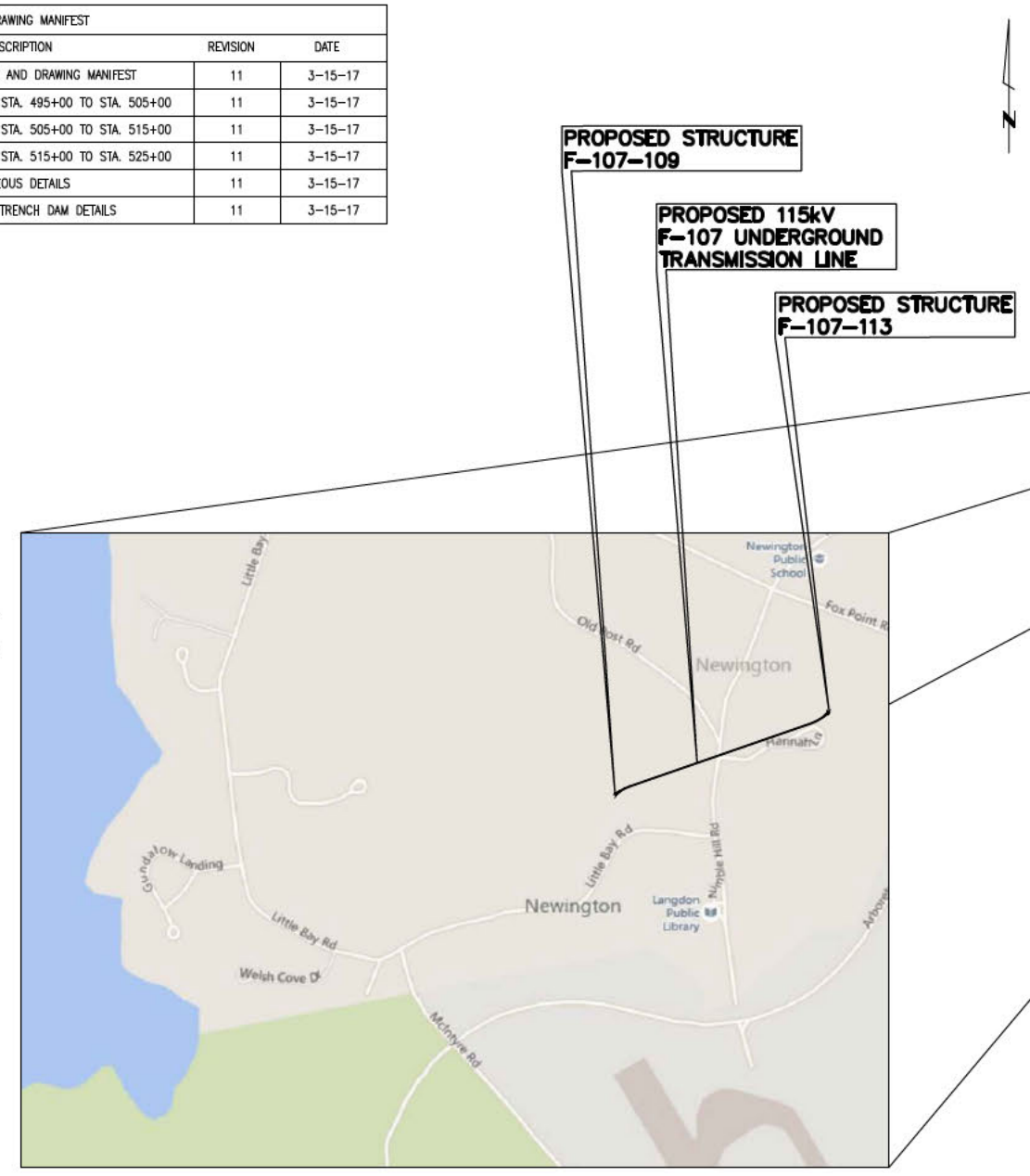
CIRCUIT F-107 115kV  
 UNDERGROUND TRANSMISSION LINE  
 SPLICE VAULT DETAIL SHEET  
 SCALE: N.T.S.  
 DATE: 06/29/2015  
 SHEET 13 OF 13  
 F10705060

# PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CIRCUIT F-107 FRINK FARM, NEWINGTON 115 kV UNDERGROUND TRANSMISSION LINE

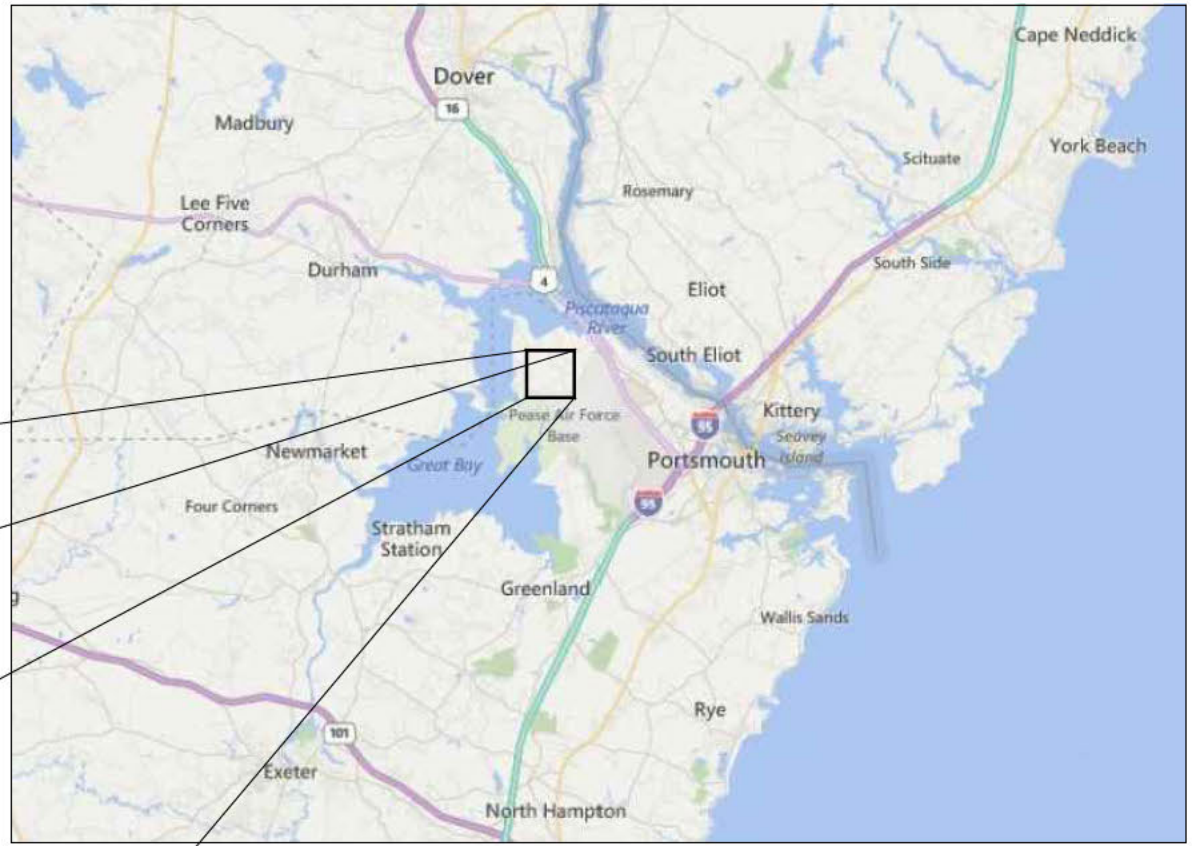
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
SHEET 1 OF 6	COVER SHEET, LEGEND, AND DRAWING MANIFEST	11	3-15-17
SHEET 2 OF 6	PLAN AND PROFILE DRAWING STA. 495+00 TO STA. 505+00	11	3-15-17
SHEET 3 OF 6	PLAN AND PROFILE DRAWING STA. 505+00 TO STA. 515+00	11	3-15-17
SHEET 4 OF 6	PLAN AND PROFILE DRAWING STA. 515+00 TO STA. 525+00	11	3-15-17
SHEET 5 OF 6	MISCELLANEOUS DETAILS	11	3-15-17
SHEET 6 OF 6	RISER SWEEP AND TRENCH DAM DETAILS	11	3-15-17

**LEGEND**

- ELECTRICAL STRUCTURE
- LAMP POST
- WOODEN POST
- IRRIGATION CONTROL VALVE
- ELECTRIC BOX
- TELECOMMUNICATION BOX
- UTILITY BOX
- CATCH BASIN
- CONIFEROUS TREE
- DECIDUOUS TREE
- CONCRETE
- RIP RAP
- LANDSCAPED AREA
- CRUSHED STONE
- SURFACE LEDGE
- TYP.
- RET.
- EP
- CONC.
- TREE LINE
- SHRUB LINE
- PROPERTY LINES
- D DRAIN LINE
- OHW OVERHEAD ELECTRIC
- UGE UNDERGROUND ELECTRIC
- W WATER LINE
- TELE TELEPHONE LINE
- S SEWER
- STM STEAM LINE
- PD PROPOSED DRAIN
- EASMENT



VICINITY MAP  
NOT TO SCALE



AREA MAP  
NOT TO SCALE

**General Notes**

1. THE UTILITIES HAVE NOT BEEN IDENTIFIED AND WILL IMPACT THE DESIGN OF THE UNDERGROUND TRANSMISSION LINE AT THE LOCATION OF ANY CROSSINGS.
2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY. THE AERIAL TRANSMISSION EASEMENT HAS BEEN ESTABLISHED BY SURVEY.
3. TOPOGRAPHY IS BASED ON AN AERIAL LIDAR SURVEY AND SATELLITE IMAGERY, THEREFORE GRADES ARE APPROXIMATE. AN ON THE GROUND DETAIL SURVEY WILL BE REQUIRED FOR DESIGN.
4. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS.
5. ALL EXISTING ROAD MARKINGS ARE ESTIMATED.
6. CONTRACTOR IS RESPONSIBLE FOR PLACING SILT FENCE OR OTHER APPROVED EROSION CONTROL DEVICES. WETLANDS HAVE NOT BEEN DELINEATED AND HAVE NOT BEEN CONSIDERED FOR DESIGN.
7. CONTRACTOR SHALL INSTALL SILT SACK OR APPROVED EQUAL TO ALL CATCH BASINS OR CURB INLETS WITHIN THE DEFINED WORK ZONE.
8. CONTRACTOR SHALL ENSURE PROPER CONTROLS ARE IN PLACE SO WORKERS DO NOT TRACK SEDIMENT PAST THE LIMITS OF WORK.
9. ALL VERTICAL RADII ARE 500' UNLESS OTHERWISE NOTED

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)  
DESIGN ENGINEER: JOSEPH SPERRY

PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)  
WORK ORDER NUMBER:

POWER ENGINEERS  
PROJECT ENGINEER: TODD GOYETTE

POWER ENGINEERS  
PROJECT NUMBER: 133007

PRINT DRAWING TO SCALE ON 22"x34" SHEET

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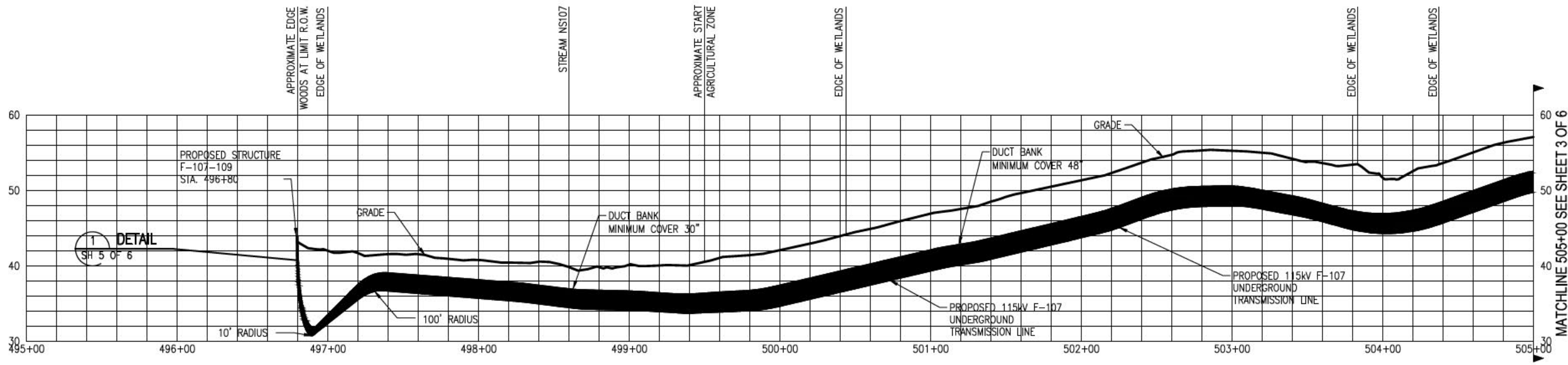
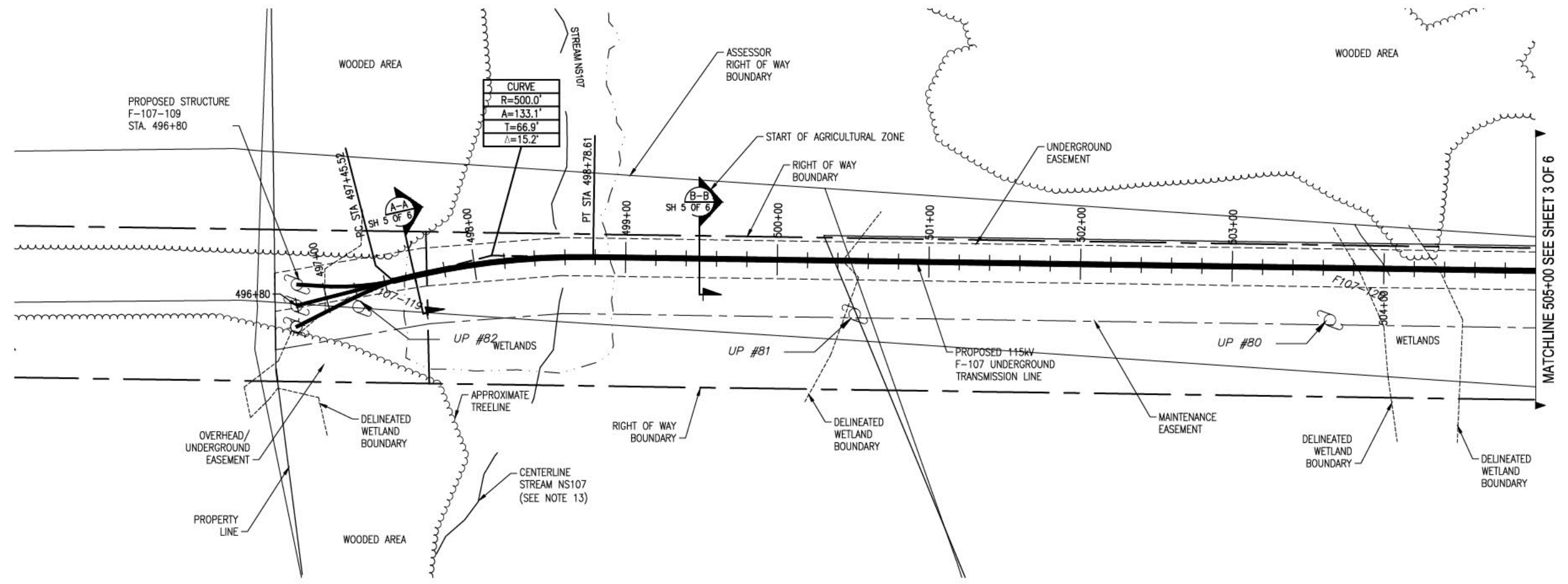


NO.	REVISION	DATE	BY	CHKD	APPRD.
11	REVISED FOR 115KV UNDERGROUND TRANSMISSION LINE	3-15-17	REG	REG	REG
10	REVISED FOR DESIGN	12-29-16	REG	REG	REG
9	REVISED FOR DESIGN	8-18-16	REG	REG	REG
8	ISSUE FOR 115KV	6-16-16	REG	REG	REG
7	REVISED FOR 115KV UNDERGROUND TRANSMISSION LINE	6-24-16	REG	REG	REG
6	ISSUE FOR 115KV	6-2-16	REG	REG	REG

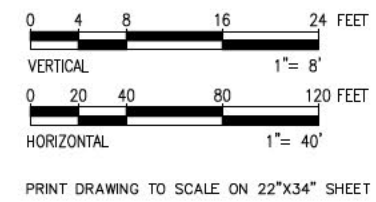
**EVERSOURCE ENERGY**

T 11  
 DATE: 07/24/2015  
 PROJECT: CIRCUIT F-107 115KV UNDERGROUND TRANSMISSION LINE  
 SHEET: PLAN AND PROFILE COVER  
 DISCIPLINE/SHT NO.  
 SHEET 1 OF 6  
 F10743104





- General Notes**
1. THE UTILITIES HAVE NOT BEEN IDENTIFIED AND WILL IMPACT THE DESIGN OF THE UNDERGROUND TRANSMISSION LINE AT THE LOCATION OF ANY CROSSINGS.
  2. ALL PROPERTY LINE INFORMATION IS SHOWN APPROXIMATE AND BASED ON TOWN ASSESSOR'S PLATS ONLY. THE AERIAL TRANSMISSION EASEMENT HAS BEEN ESTABLISHED BY SURVEY.
  3. TOPOGRAPHY IS BASED ON AN AERIAL LIDAR SURVEY AND SATELLITE IMAGERY, THEREFORE GRADES ARE APPROXIMATE. AN ON-THE-GROUND DETAIL SURVEY WILL BE REQUIRED FOR DESIGN.
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  9. ALL VERTICAL RADII ARE 500' UNLESS OTHERWISE NOTED.
  10. WARNING TAPE TO BE PLACED DIRECTLY ABOVE DUCT AT EXTENDED DEPTH TRENCH.
  11. THE TOP SOIL IN THE AGRICULTURAL ZONE (STA 500+05 TO STA 511+25) WILL BE STOCKPILED AND PRESERVED. THIS TOPSOIL WILL BE REPLACED AT THE CONCLUSION OF THE PROJECT UNDER THE SUPERVISION OF A CERTIFIED SOIL SCIENTIST.
  12. STREAM TO BE TEMPORARILY DIVERTED DURING CONSTRUCTION.
  13. REFER TO STREAM CROSSING DETAIL PROVIDED IN APPENDIX C OF TPSM RESPONSE TO DES WETLANDS BUREAU NOVEMBER 10, 2016 PROGRESS REPORT, DATED JAN 11, 2017.



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NO.	REVISION	DATE	BY	CHKD	APPRV.
11	REVISED FOR WOOD DELINEATED WETLANDS	3-15-17	RED	SSS	TSO
10	REVISED FOR DESIGN	12-29-16	RED	SSS	TSO
9	REVISED FOR DESIGN	8-16-16	RED	SSS	TSO
8	ISSUE FOR 80'	6-16-16	RED	SSS	TSO
7	REVISED HERE FOR LOCATION PER DISCUSSURE	6-24-16	RED	SSS	TSO
6	ISSUE FOR 80'	6-2-16	RED	SSS	TSO

**EVERSOURCE ENERGY**

115KV F107 UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
DATE: 07/24/2015  
SCALE: H: 1"=40', V: 1"=8'

T 11

DES: RED CHKD: TSO  
DWR: RED APPR: TSO

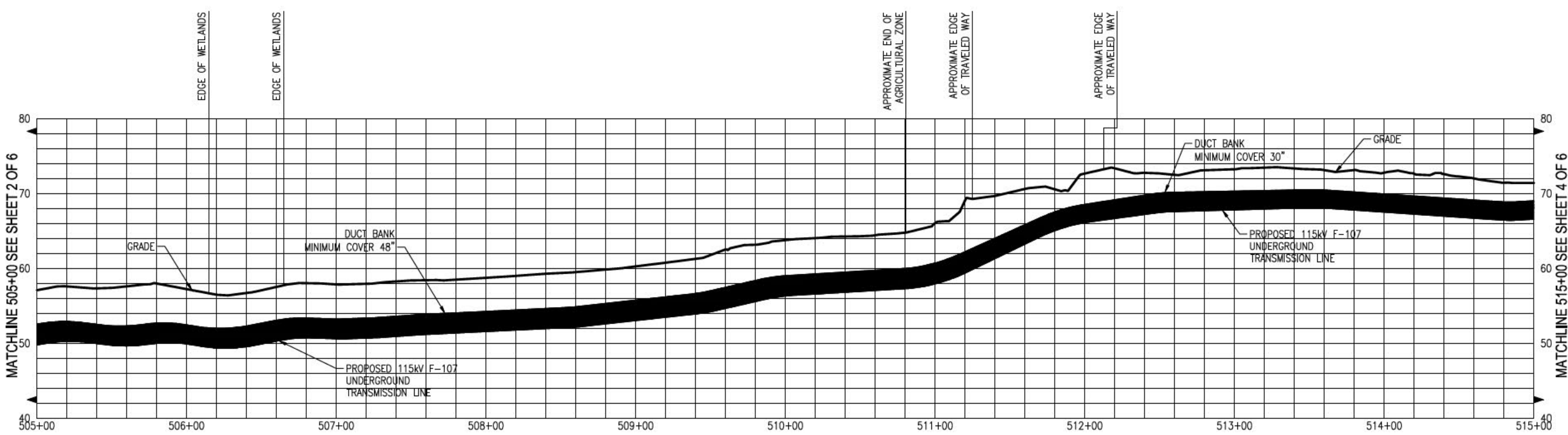
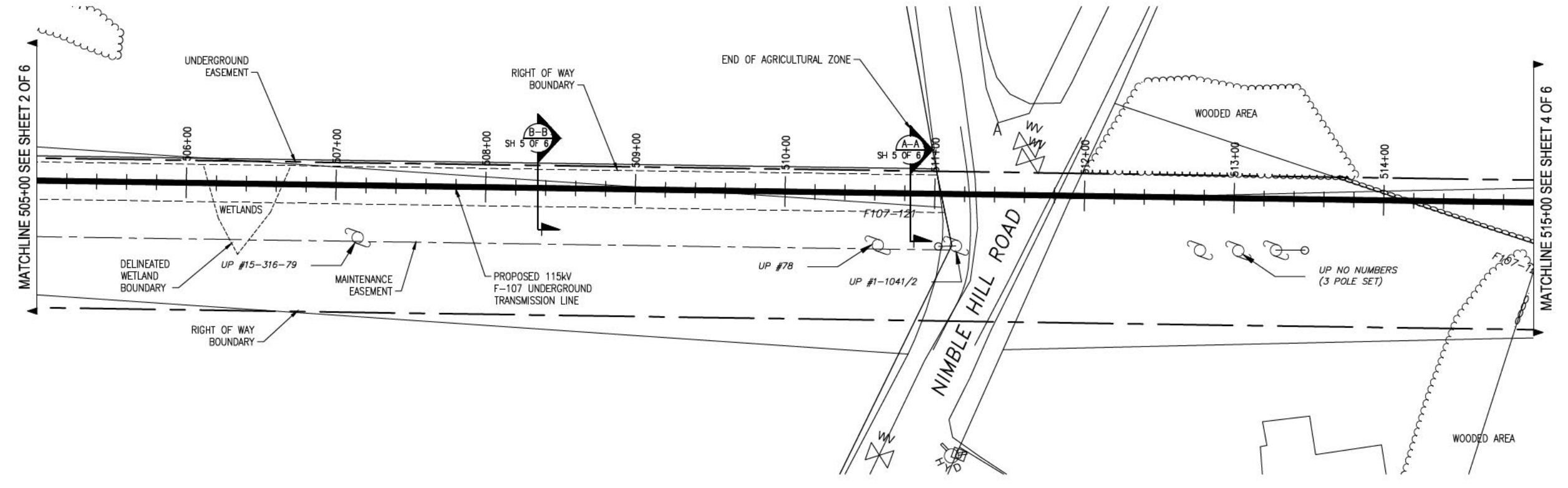
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE

MILE NO: 1.0  
DISCIPLINE/SHT NO.

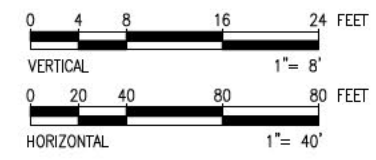
SHEET 2 OF 6  
F10743004

3/24/2017 1:54 PM - dclifford - R:\Projects\133007\DD\DWG\03\_Line\03\_Design\3-24-17\F10743004-PRINT\_HALF\_SIZE.dwg - SH. 3

ES VER. 11/2015



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  9. ALL VERTICAL RADII ARE 500' UNLESS OTHERWISE NOTED.
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  11. THE TOP SOIL IN THE AGRICULTURAL ZONE (STA 500+05 TO STA 511+25) WILL BE STOCKPILED AND PRESERVED. THIS TOPSOIL WILL BE REPLACED AT THE CONCLUSION OF THE PROJECT UNDER THE SUPERVISION OF A CERTIFIED SOIL SCIENTIST.
  12. STREAM TO BE TEMPORARILY DIVERTED DURING CONSTRUCTION.



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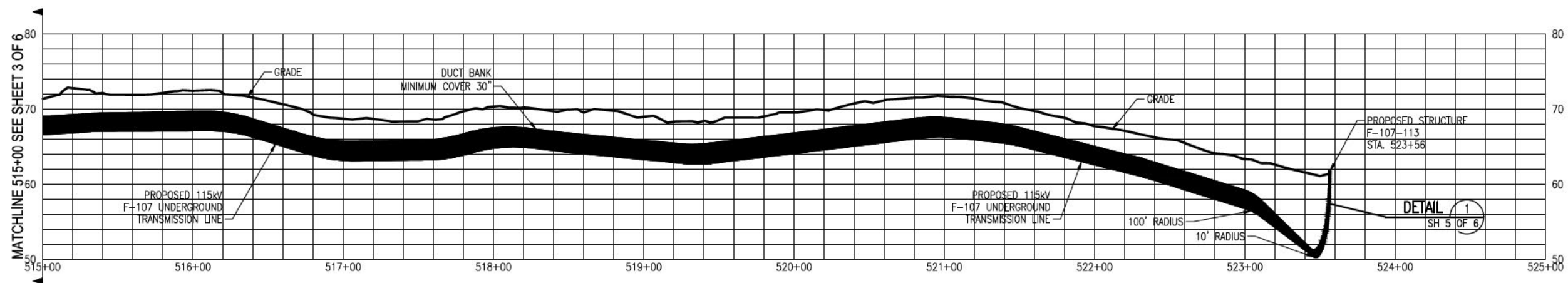
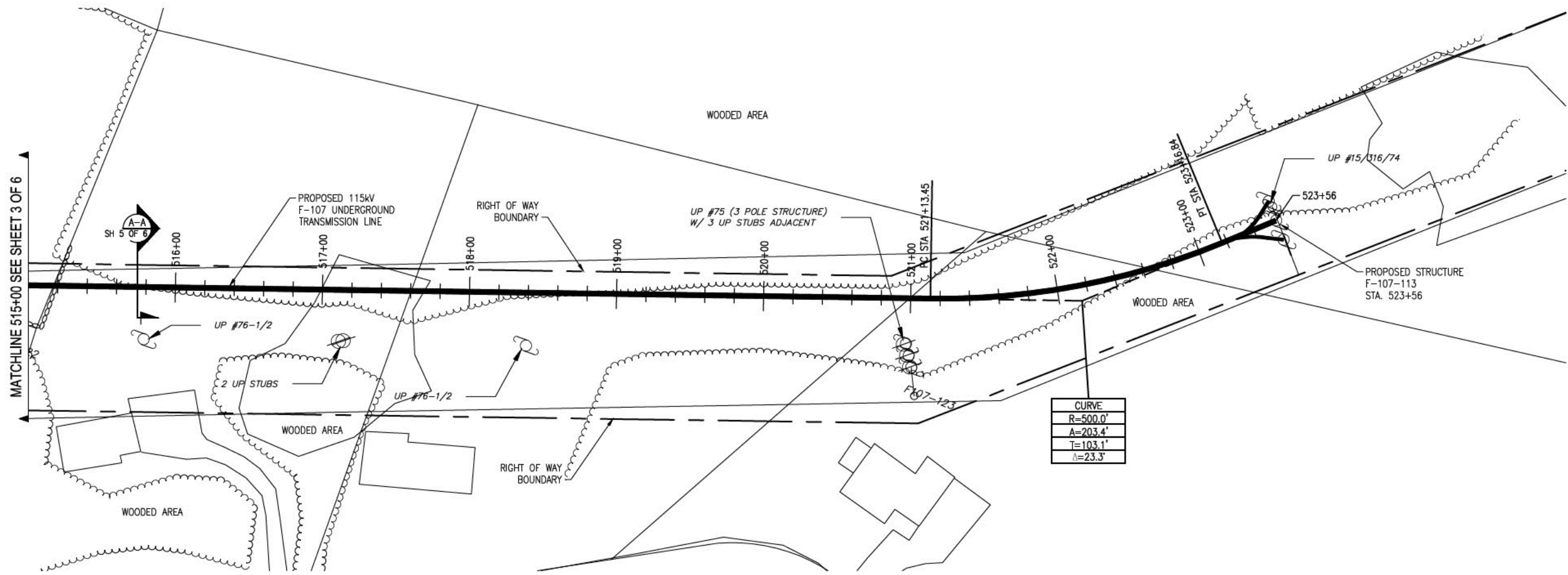


NO.	REVISION	DATE	DRWN	CHKD	APPRV.
11	REVISED FOR ADDITIONAL WETLANDS	3-15-17	REC	502	TSO
10	REVISED FOR DESIGN	12-29-16	REC	502	TSO
9	REVISED FOR DESIGN	8-16-16	REC	502	TSO
8	ISSUE FOR 48"	6-16-16	REC	502	TSO
7	REVISED HERE FOR LOCATION PER DISCUSSURE	6-24-16	REC	502	TSO
6	ISSUE FOR 30"	6-2-16	REC	502	TSO

**EVERSOURCE ENERGY**

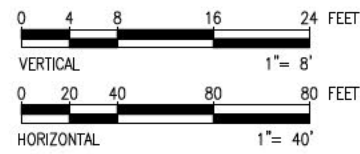
CIRCUIT F-107 115kV  
 UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE VIEW  
 DATE: 07/24/2015  
 SCALE: H 1"=40', V 1"=8'  
 SHEET 3 OF 6  
 F10743004





**General Notes**

1. THE UTILITIES HAVE NOT BEEN IDENTIFIED AND WILL IMPACT THE DESIGN OF THE UNDERGROUND TRANSMISSION LINE AT THE LOCATION OF ANY CROSSINGS.
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12. STREAM TO BE TEMPORARILY DIVERTED DURING CONSTRUCTION.



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NO.	REVISION	DATE	DRWN	CHKD	APPRV.
11	REVISED FOR - ADDITIONAL METALS	3-15-17	RED	SSS	TSB
10	REVISED FOR DESIGN	12-29-16	RED	SSS	TSB
9	REVISED FOR DESIGN	12-29-16	RED	SSS	TSB
8	ISSUE FOR BID	8-16-16	RED	SSS	TSB
7	REVISED HERE FOR LOCATION PER DISCUSSURE	6-24-16	RED	SSS	TSB
6	ISSUE FOR BIDD	6-2-16	RED	SSS	TSB

**EVERSOURCE**  
ENERGY

CIRCUIT F107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW

DATE: 07/24/2015

SCALE: H 1"=40', V 1"=8'

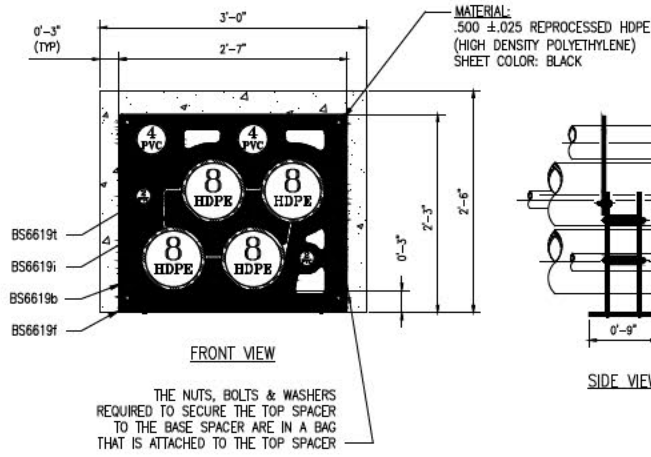
T 11

DES: RED CHN: TSB  
DWG: RED APPL:

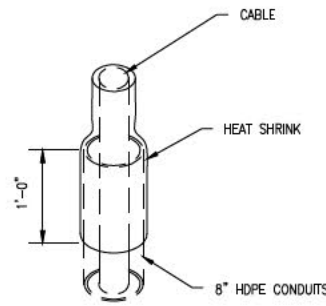
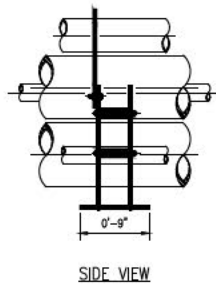
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE

MILE NO: 1.0  
DISCIPLINE/SHT NO.

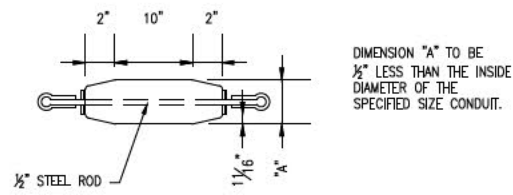
SHEET 4 OF 6  
F10743004



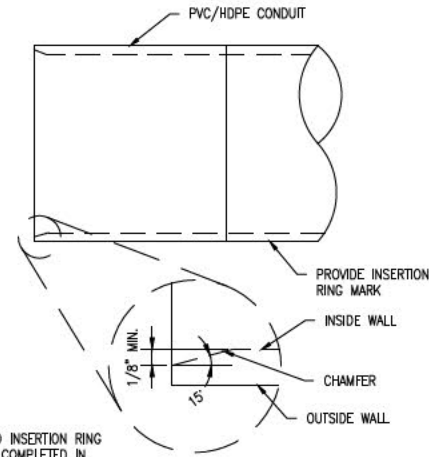
**UNDERGROUND DEVICES SPACER ARRANGEMENT**  
**DETAIL 1**  
 SCALE: N.T.S. SH 5 OF 6



**HEAT SHRINK DETAIL**  
**DETAIL 2**  
 SCALE: N.T.S. SH 5 OF 6

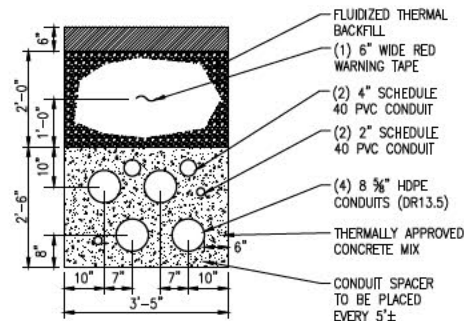


**MANDREL DETAIL**  
**DETAIL 3**  
 SCALE: N.T.S. SH 5 OF 6

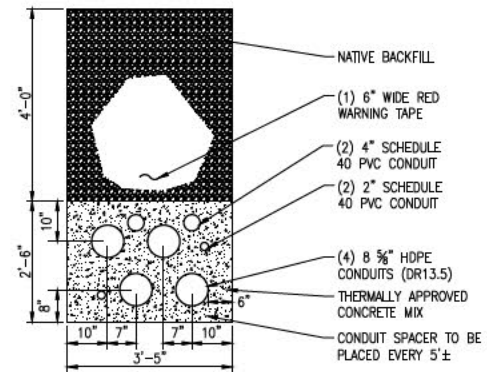


NOTE:  
 CHAMFER AND INSERTION RING MARK TO BE COMPLETED IN FACTORY.

**PVC/HDPE DUCT CHAMFER DETAIL**  
**DETAIL 4**  
 SCALE: N.T.S. SH 5 OF 6



**SINGLE CIRCUIT TRENCH SECTION**  
**SECTION A-A**  
 SCALE: N.T.S. SH 5 OF 6



**FARMLAND TRENCH SECTION**  
**SECTION B-B**  
 SCALE: N.T.S. SH 5 OF 6

NO.	REVISION	DATE	BY	CHKD	APPRV.
11	REVISED FOR ADDITIONAL METERS	3-15-17	RED	SDS	TSB
10	REVISED FOR DESIGN	12-22-16	RED	SDS	TSB
9	REVISED FOR DESIGN	8-16-16	RED	SDS	TSB
8	ISSUE FOR BID	8-16-16	RED	SDS	TSB
7	REVISED FOR LOCATION PER DISCUSS	8-24-16	RED	SDS	TSB
6	ISSUE FOR BIDD	6-2-16	RED	SDS	TSB

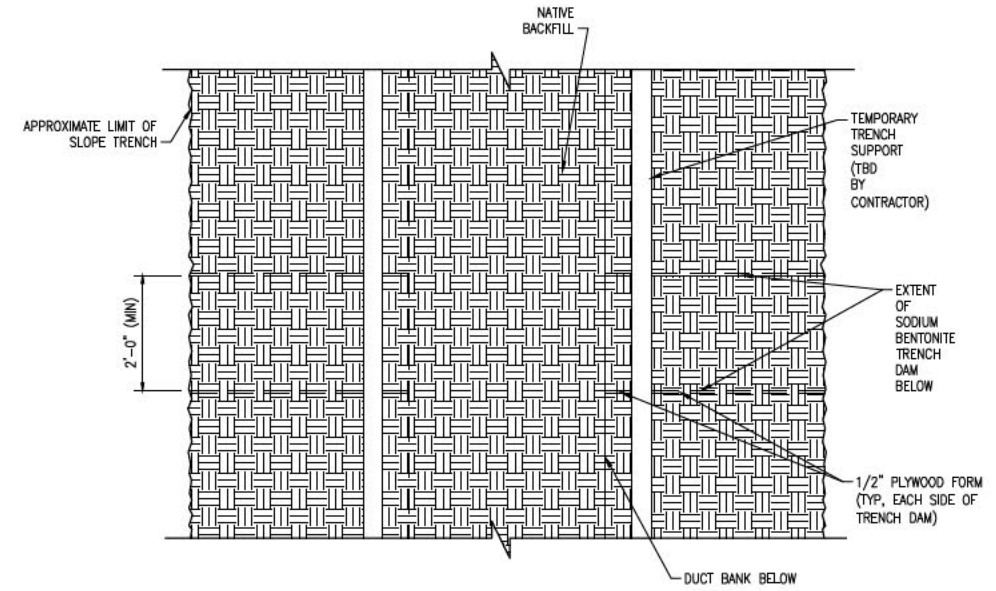
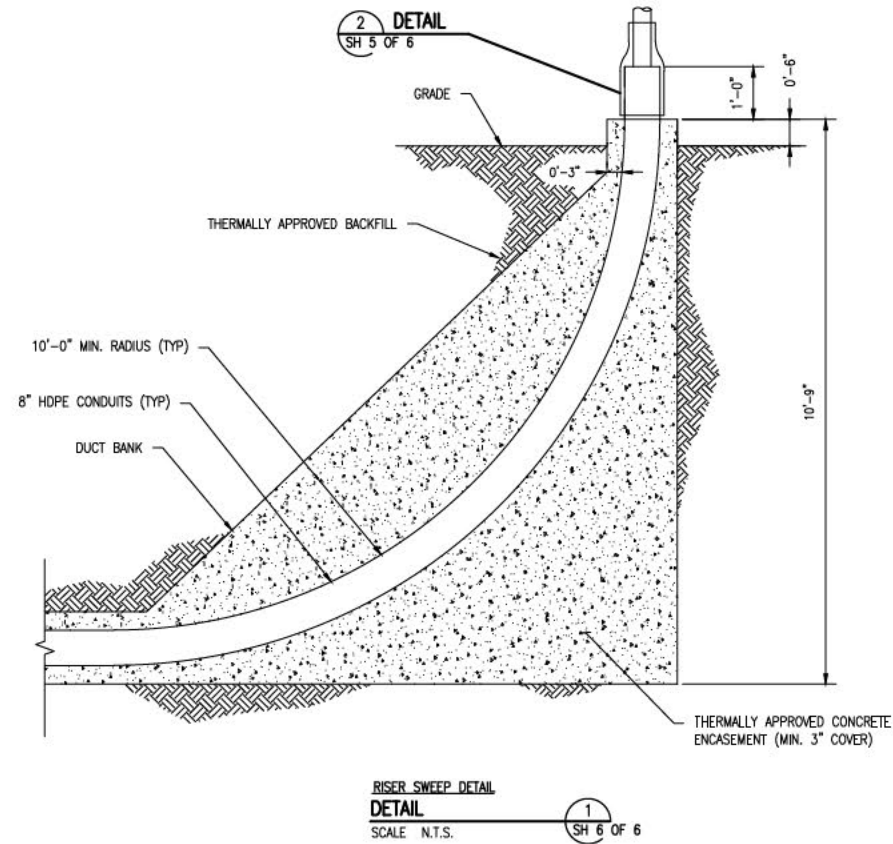
**EVERSOURCE ENERGY**

CIRCUIT F-107 115KV  
 UNDERGROUND TRANSMISSION LINE  
 MISCELLANEOUS DETAILS  
 DATE: 07/24/2015  
 SCALE: N.T.S.

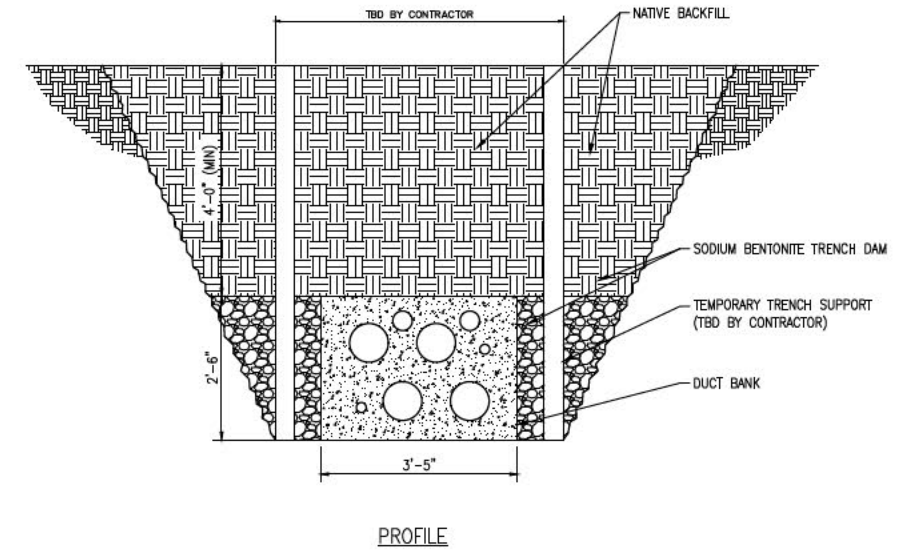
ISSUE FOR SEC AMENDMENT  
 NOT FOR CONSTRUCTION







**NOTE:**  
1. COPE PLYWOOD FORM TO FIT SNUGLY OVER CONCRETE DUCT BANK.



**NOTE:**  
1. PLACE BENTONITE BETWEEN DUCT BANK AND TRENCH SUPPORT AND BETWEEN TRENCH SUPPORT AND TRENCH SIDEWALLS.  
2. SEE F107 LINE CROSSING FRINK FARM, REVISION 0, TRENCH DAM LOCATION PLAN FIGURE 3, BY GEI CONSULTANTS, FOR PLACEMENT.

**GEI FARMLAND TRENCH DAM**  
**DETAIL**  
SCALE N.T.S.

**2**  
SH 6 OF 6

NO.	REVISION	DATE	BY	CHKD	APPRV.
11	REVISED FOR 115KV UNDERGROUND TRANSMISSION LINE	3-15-17	RED	SOB	TSO
10	REVISED FOR DESIGN	12-22-16	RED	SOB	TSO
9	ISSUE FOR PERMITS	8-16-16	RED	SOB	TSO
8	ISSUE FOR PERMITS	8-16-16	RED	SOB	TSO
7	REVISED HERE FOR LOCATION PER DISBURSE	6-24-16	RED	SOB	TSO
6	ISSUE FOR PERMITS	6-2-16	RED	SOB	TSO

**EVERSOURCE**  
ENERGY

T	11
CIRCUIT F-107 115KV UNDERGROUND TRANSMISSION LINE RISER AND TRENCH DAM DETAILS	
SCALE N.T.S.	
DATE: 07/24/2015	
DES: RED CHKD: TSO	
DWR: RED APR: TSO	
TOWN: NEWINGTON	
TRANSMISSION LINE: LINE	
MILE NO: 1.0	
DISCIPLINE/SHT NO.	
SHEET 6 OF 6	
F10743004	

**ISSUE FOR SEC AMENDMENT**  
**NOT FOR CONSTRUCTION**



## **APPENDIX 18(a)**

### **Part C – Traffic Control Plans:**

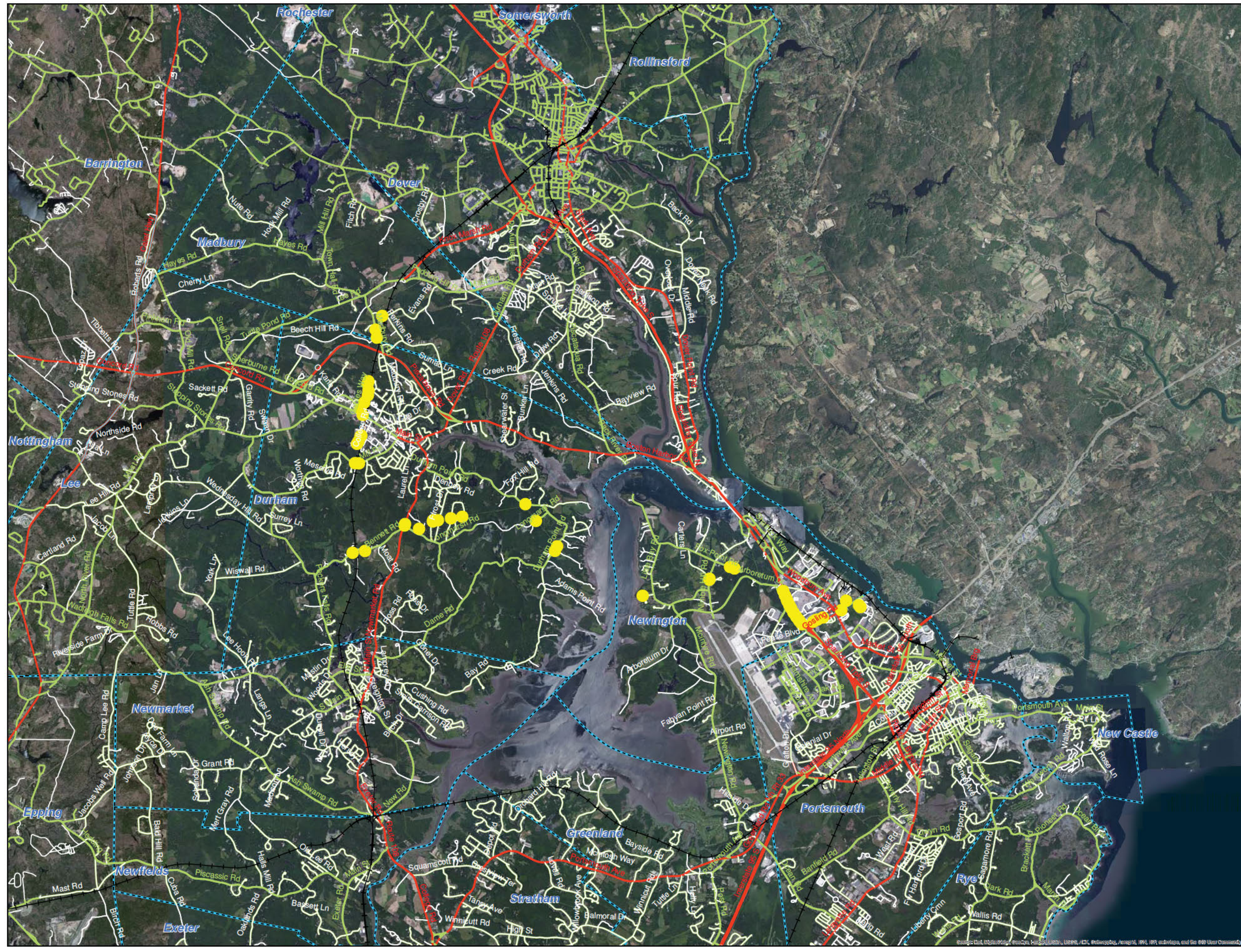
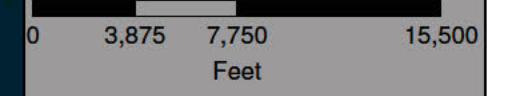


# Seacoast Reliability Project

Access Points Exhibit  
Route Selection based on AADT

## Legend

- Access Points
- Railroad
- Town/City Boundary
- Heavy Commuter Traffic (Avoid 6-9 AM and 3-6 PM)
- Light Commuter Traffic (Use Anytime)
- Residential Traffic (Avoid 7 PM - 8 AM)



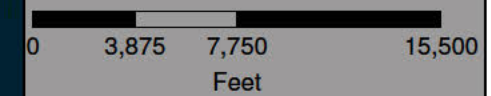


# Seacoast Reliability Project

## Authorized Overheight & Overweight Routes

### Legend

- Access Points
- Railroad
- ▭ Town/City Boundary
- Authorized Routes With No Restrictions
- Authorized Routes with Temporary Restrictions
- Authorization Required





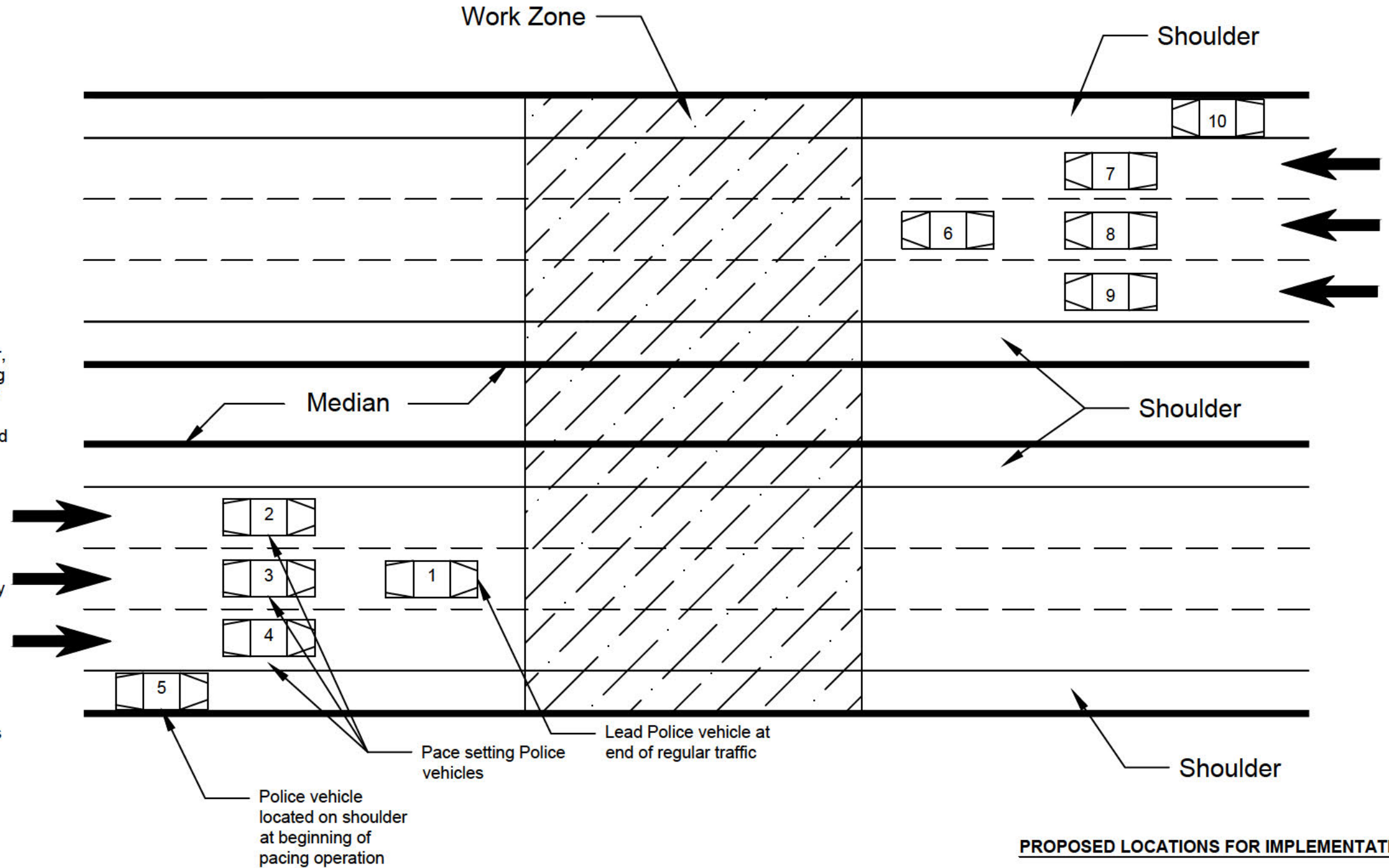
**Pacing Distance** is defined as the total distance for which officers pace or slow the traffic to a low speed to allow for overhead construction. Calculated total pacing distance for 10 mph pacing speed and a 25 minute roadway closure is **4 miles**.

**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.



**PROPOSED LOCATIONS FOR IMPLEMENTATION**

- SPAULDING TURNPIKE

**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 remain closed until the pace setting vehicle passes.

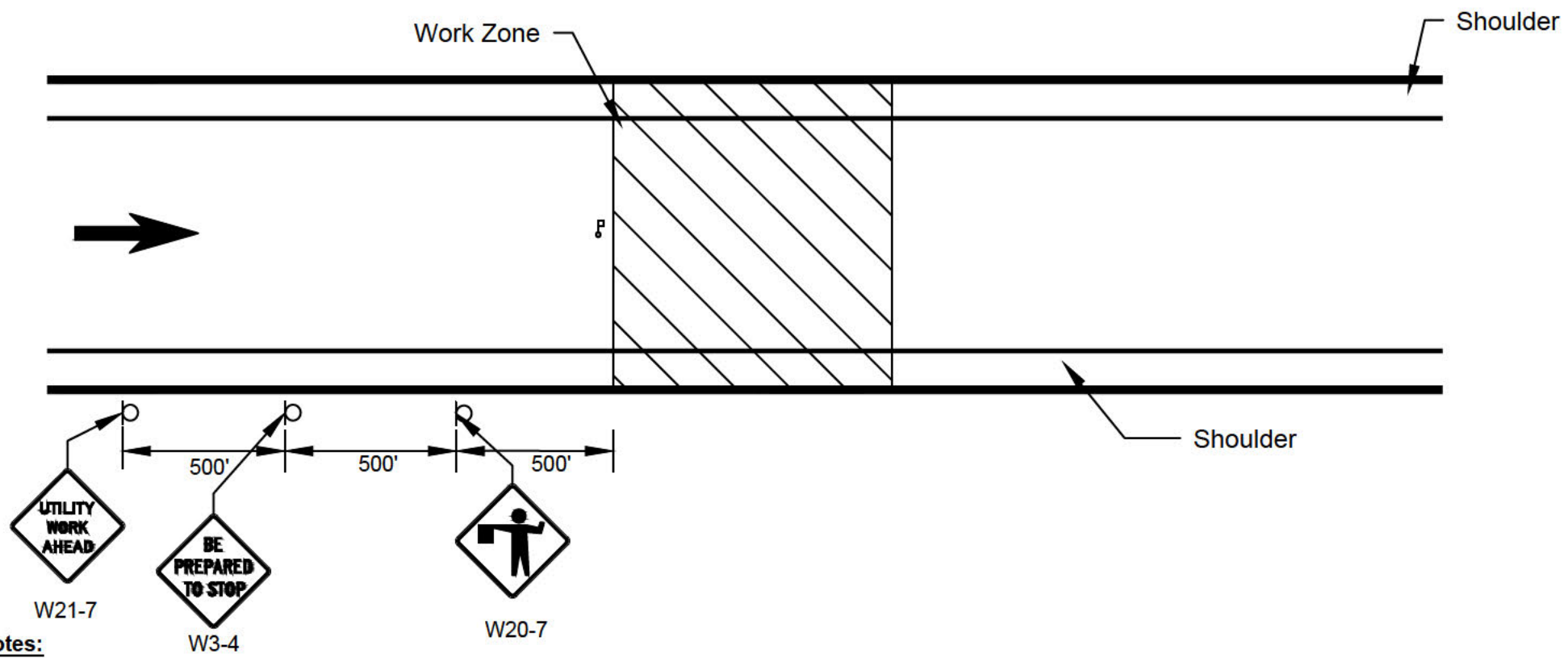
NOT TO SCALE



**Louis Berger**

Manchester, New Hampshire  
(603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITIES COMPANY			
SEACOAST RELIABILITY PROJECT TYPICAL ROLLING CLOSURE FOR AERIAL INSTALLATIONS CONTROLLED ACCESS HIGHWAY			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	1	11



**Notes:**

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.

NOT TO SCALE



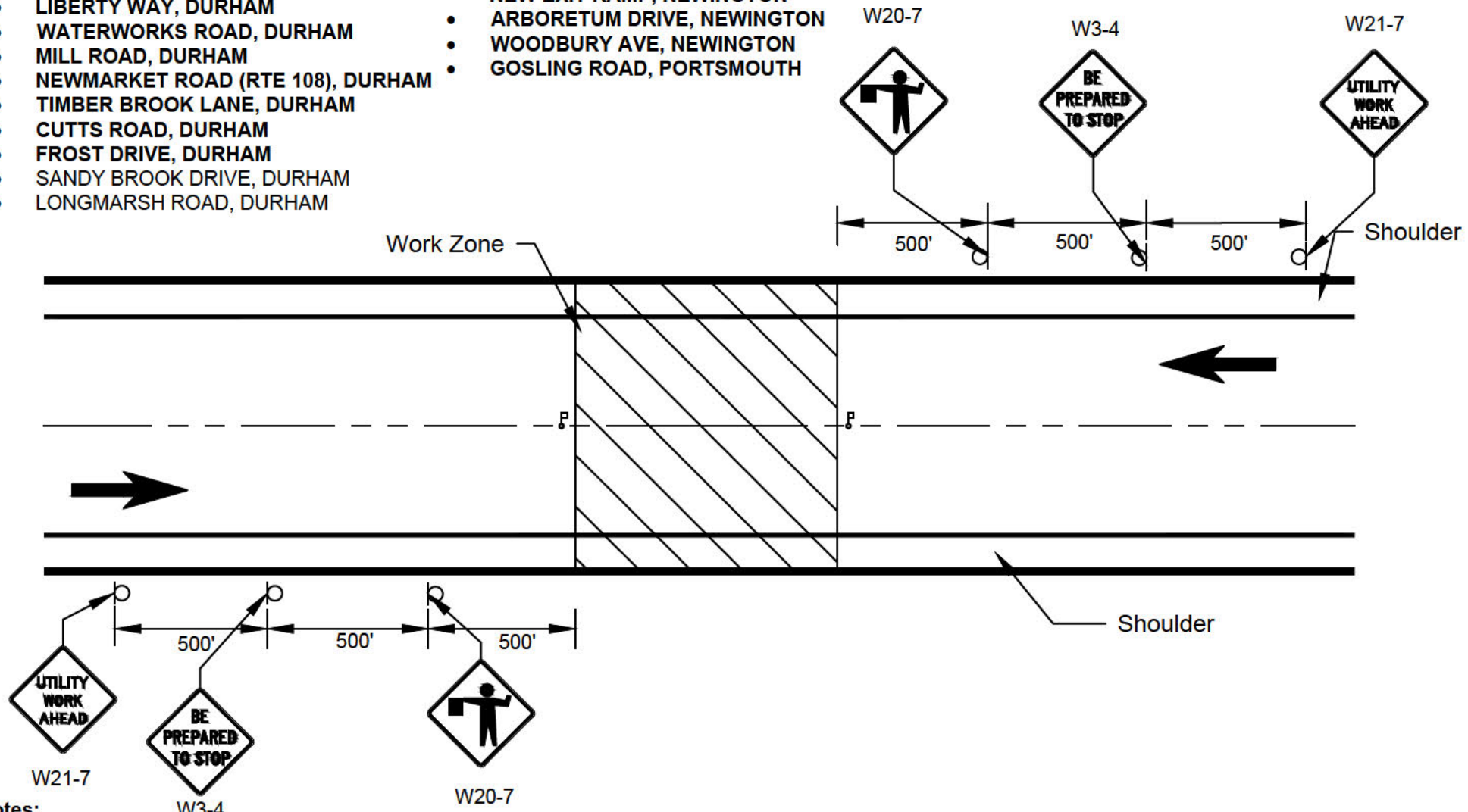
**Louis Berger**  
Manchester, New Hampshire  
(603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT TYPICAL TEMPORARY CLOSURE FOR AERIAL INSTALLATIONS SPAULDING TURNPIKE ON AND OFF RAMPS			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	2	11



**PROPOSED LOCATIONS FOR IMPLEMENTATION**

- MADBURY ROAD, MADBURY
- ROUTE 4, DURHAM
- MAIN STREET, DURHAM
- LIBERTY WAY, DURHAM
- WATERWORKS ROAD, DURHAM
- MILL ROAD, DURHAM
- NEWMARKET ROAD (RTE 108), DURHAM
- TIMBER BROOK LANE, DURHAM
- CUTTS ROAD, DURHAM
- FROST DRIVE, DURHAM
- SANDY BROOK DRIVE, DURHAM
- LONGMARSH ROAD, DURHAM
- DURHAM POINT ROAD, DURHAM
- FOX POINT ROAD, NEWINGTON
- NEW EXIT RAMP, NEWINGTON
- ARBORETUM DRIVE, NEWINGTON
- WOODBURY AVE, NEWINGTON
- GOSLING ROAD, PORTSMOUTH



**Notes:**

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.

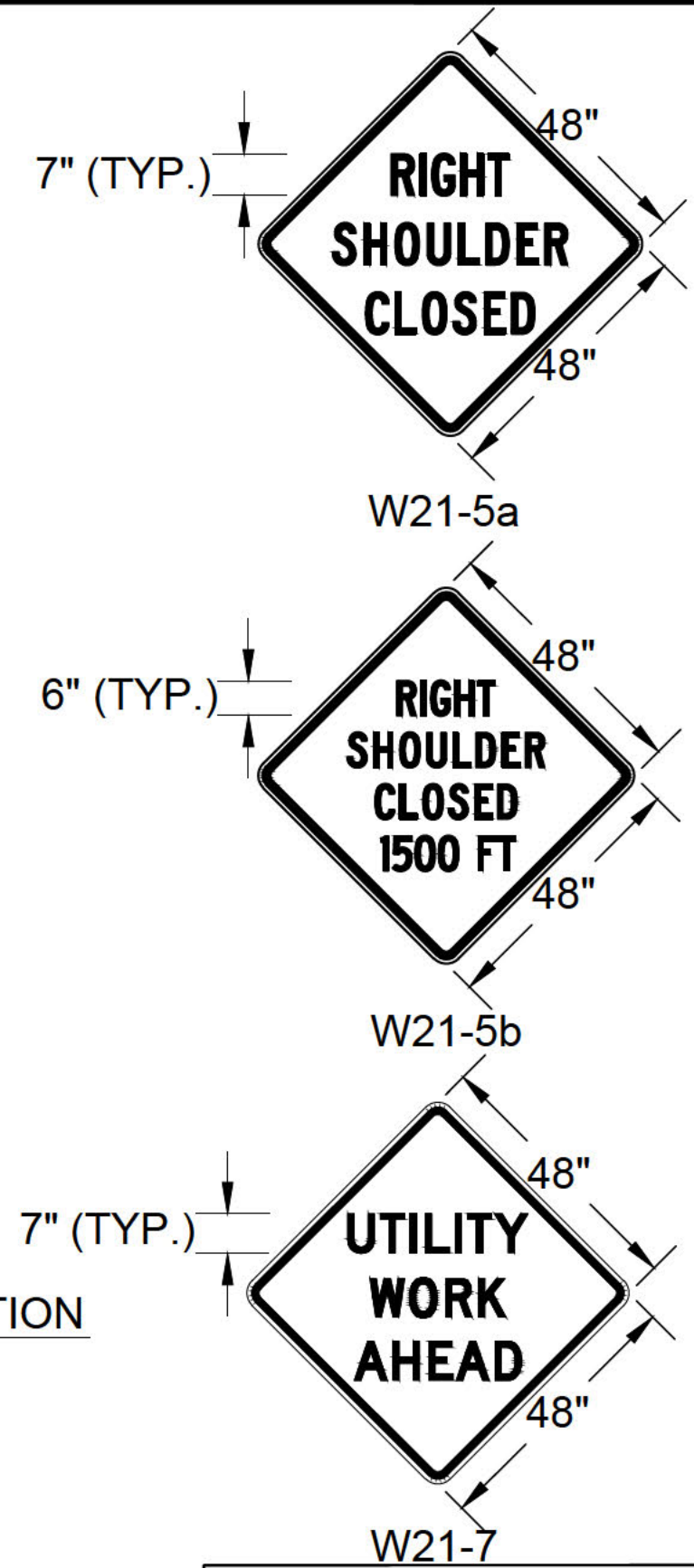
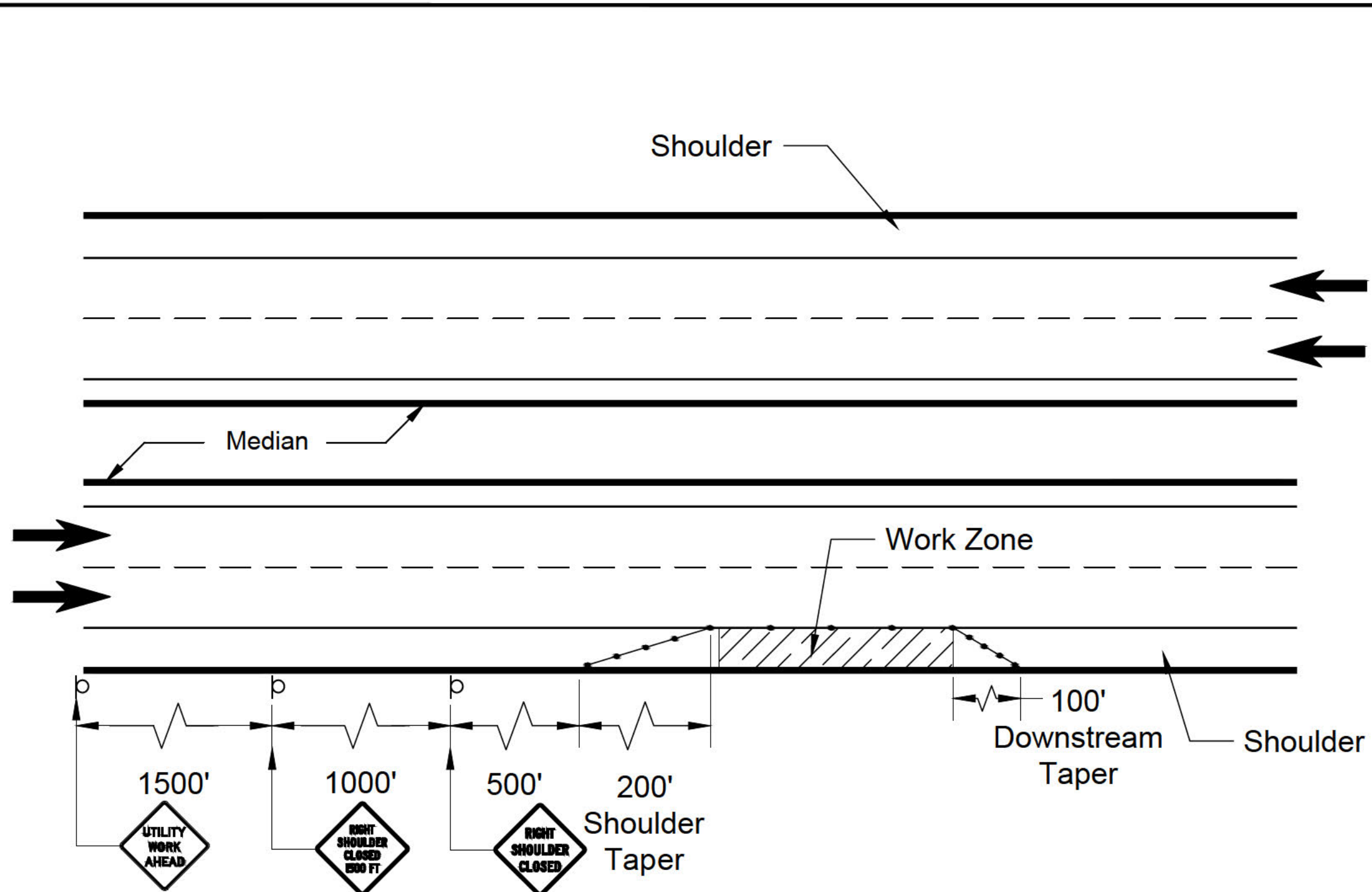
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**Louis Berger**

Manchester, New Hampshire  
(603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT TYPICAL TEMPORARY CLOSURE FOR AERIAL INSTALLATIONS LOCAL ROADWAYS			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	3	11



PROPOSED LOCATIONS FOR IMPLEMENTATION  
 • SPAULDING TURNPIKE

Source: The National Work Zone Safety Information Clearinghouse

NOT TO SCALE  
**Louis Berger**  
 Manchester, New Hampshire  
 (603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITIES 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	11





ONE LANE ROAD AHEAD  
W20-4 (AHEAD)

ROAD WORK AHEAD  
W20-1 (AHEAD)

ROAD WORK AHEAD  
W20-1 (AHEAD)

BEGIN ONE WAY  
R6-6

MAINTAIN ACCESS

R5-1  
DO NOT ENTER

R3-1

END ONE WAY  
R6-7

ROAD WORK AHEAD  
W20-1 (AHEAD)

Phase 1 Work Zone

Phase 2 Work Zone

**Legend**  
 ○ Traffic Cone  
 □ Type III Barricade  
 ▽ Construction Sign

**Notes**  
 1. Contractor shall maintain access to residential drives at all times

**phase 1**  
 Utilize local road closure setup for aerial installations and direct traffic by flagger instruction until one lane is passable

Public service of new hampshire  
 A NORTHEAST UTILITES COMPANY  
**SEACOAST RELIABILITY PROJECT**  
 GUNDALOW LANDING – PHASE 1 & 2

**Louis Berger**  
 Manchester, New Hampshire  
 (603) 644 5200

DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	5	11







Legend

- Construction Sign
- ▭ Type III Barricade

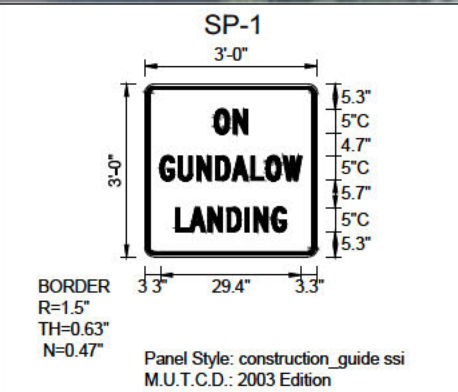


**Louis Berger**

Manchester, New Hampshire  
(603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT			
GUNDALOW LANDING - PHASE 3			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	6	11





Google earth

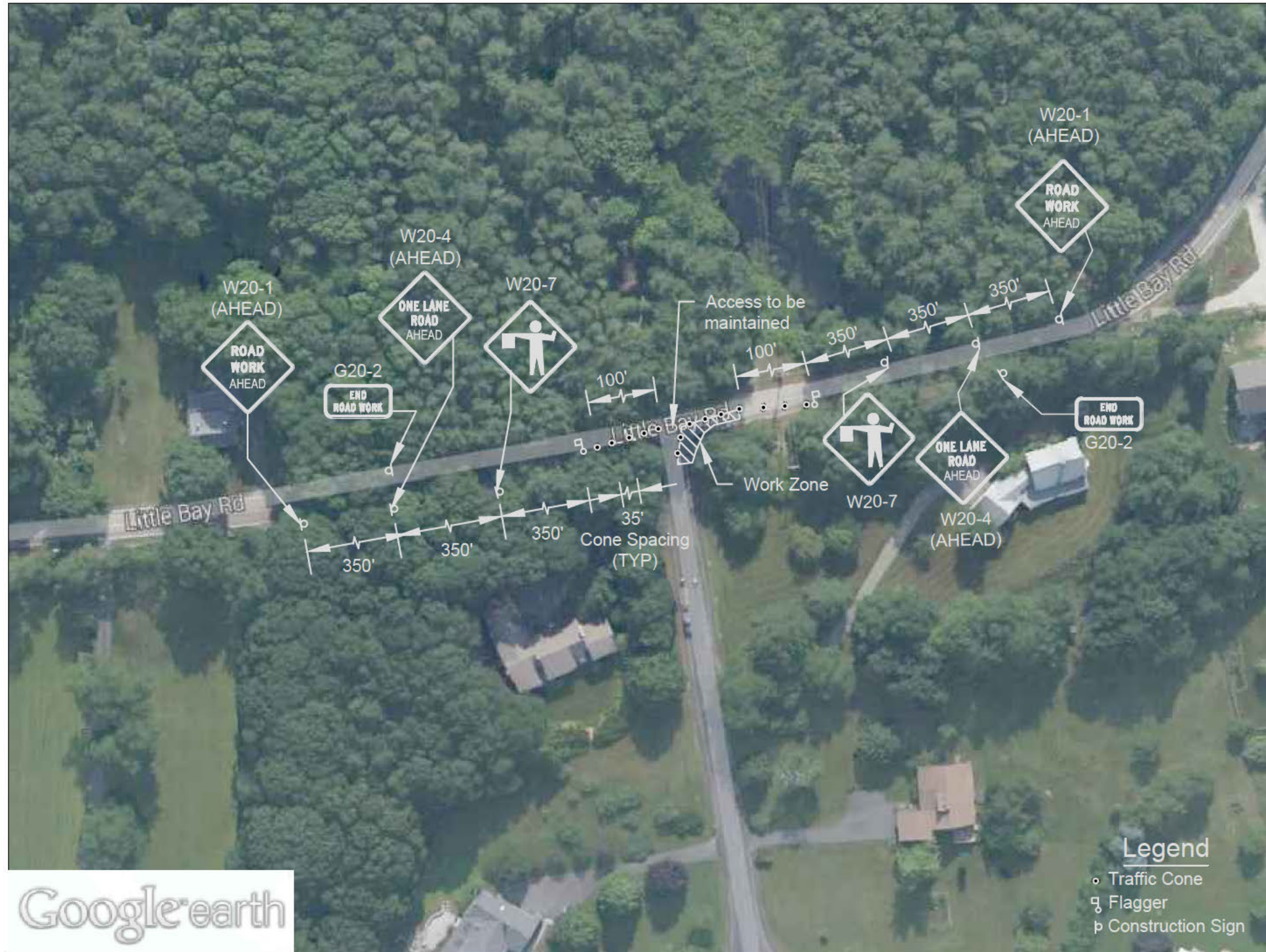
- Legend**
- o Traffic Cone
  - ⌘ Flagger
  - p Construction Sign

**Louis Berger**  
Manchester, New Hampshire  
(603) 644 5200

**Notes**  
1. Contractor shall maintain access to residential drives at all times

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SEACOAST RELIABILITY PROJECT GUNDALOW LANDING - PHASE 4			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	7	11





Google earth

Legend

- o Traffic Cone
- ⌘ Flagger
- p Construction Sign



PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT LITTLE BAY ROAD - PHASE 1			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	8	11

**Louis Berger**  
Manchester, New Hampshire  
(603) 644 5200





PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT LITTLE BAY ROAD - PHASE 2			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	9	11

**Louis Berger**  
Manchester, New Hampshire  
(603) 644 5200





Google earth

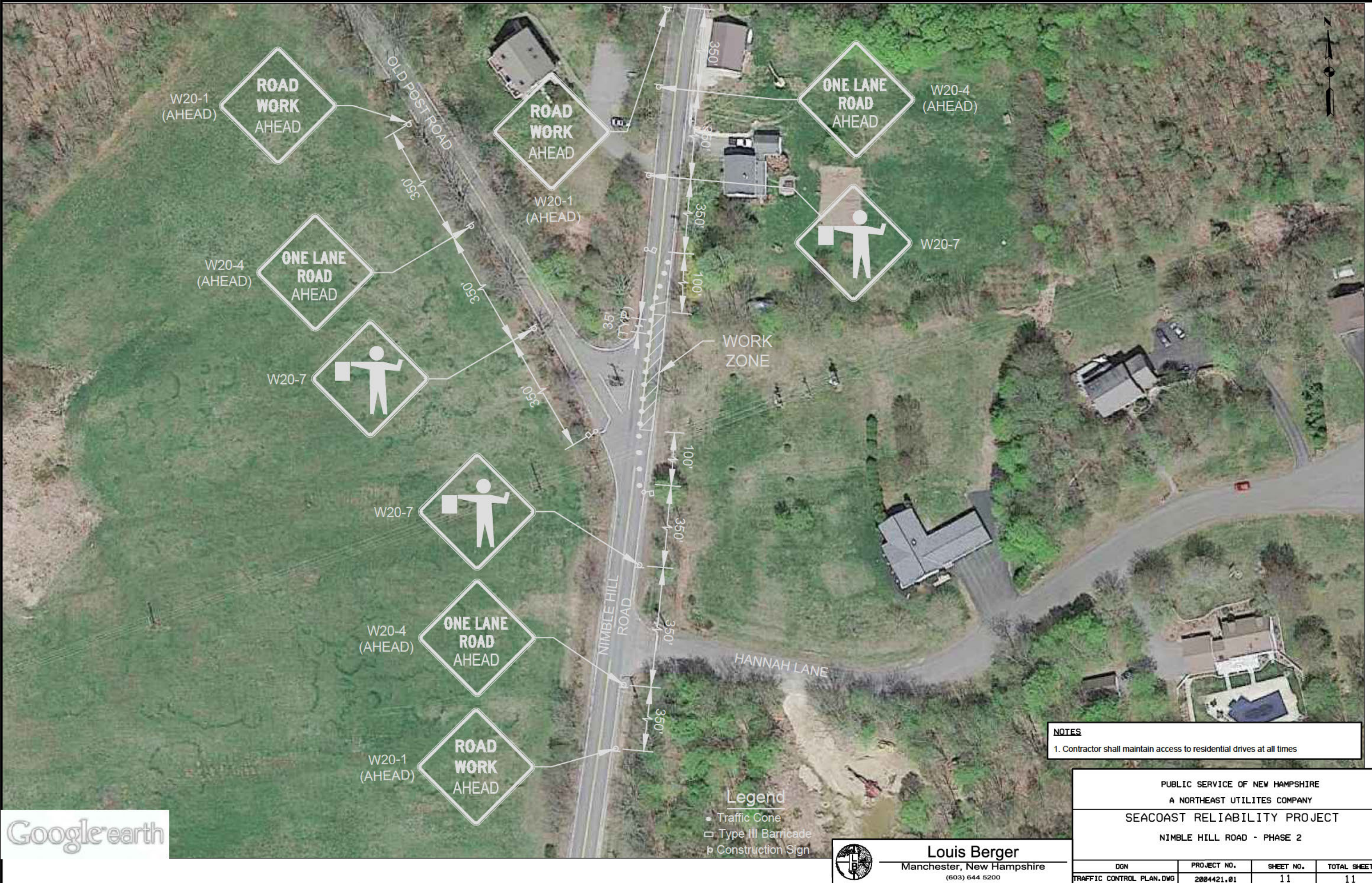
**NOTES**  
 1. Contractor shall maintain access to residential drives at all times.  
 2. Spacing between concurrent construction signs shall be at least 350 ft.  
 3. Spacing between cones shall be 35 ft.

**Legend**  
 ● Traffic Cone  
 □ Type III Barricade  
 p Construction Sign

**Louis Berger**  
 Manchester, New Hampshire  
 (603) 644 5200

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT			
NIMBLE HILL ROAD - PHASE 1			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	10	11





**NOTES**  
 1. Contractor shall maintain access to residential drives at all times

PUBLIC SERVICE OF NEW HAMPSHIRE A NORTHEAST UTILITES COMPANY			
SEACOAST RELIABILITY PROJECT			
NIMBLE HILL ROAD - PHASE 2			
DGN	PROJECT NO.	SHEET NO.	TOTAL SHEETS
TRAFFIC CONTROL PLAN.DWG	2004421.01	11	11

**Louis Berger**  
 Manchester, New Hampshire  
 (603) 644 5200

- Legend**
- Traffic Cone
  - Type III Barricade
  - p Construction Sign