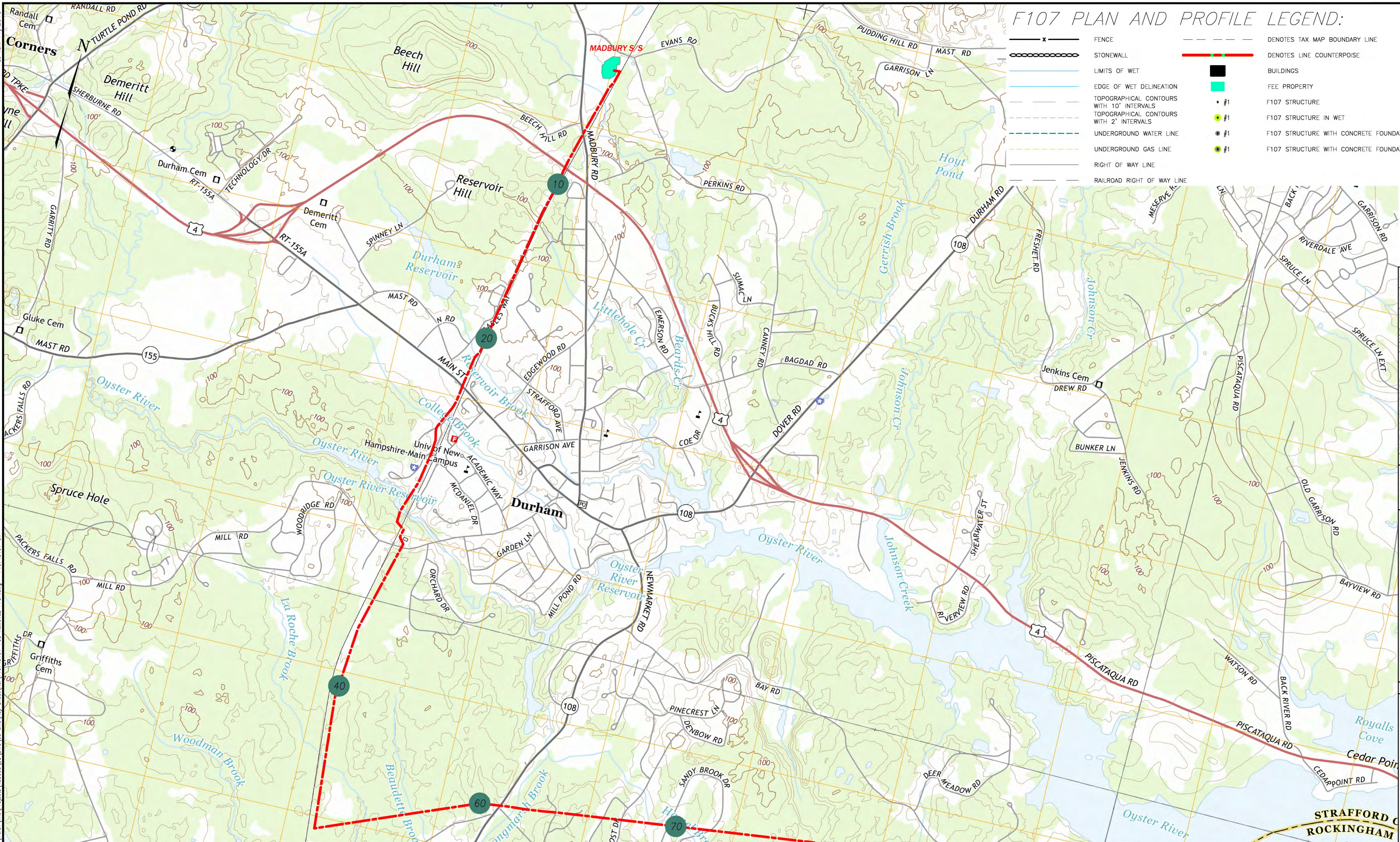


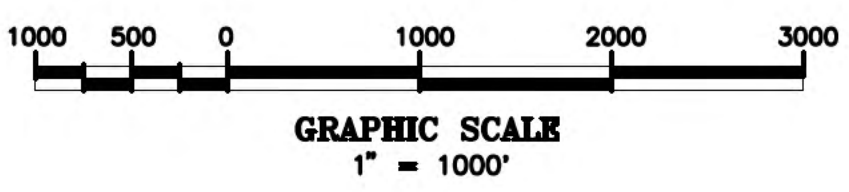
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F107 PLAN AND PROFILE LEGEND:

- x — FENCE
- — — — DENOTES TAX MAP BOUNDARY LINE
- — — — DENOTES LINE COUNTERPOISE
- — — — STONEWALL
- — — — BUILDINGS
- — — — LIMITS OF WET
- — — — FEE PROPERTY
- — — — EDGE OF WET DELINEATION
- — — — F107 STRUCTURE
- — — — TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- — — — F107 STRUCTURE IN WET
- — — — TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- — — — F107 STRUCTURE WITH CONCRETE FOUNDATION
- — — — UNDERGROUND WATER LINE
- — — — F107 STRUCTURE WITH CONCRETE FOUNDATION IN WET
- — — — UNDERGROUND GAS LINE
- — — — RIGHT OF WAY LINE
- — — — RAILROAD RIGHT OF WAY LINE

- LEGEND:**
- — — — F107 LINE
  - 10 F107 STRUCTURE NUMBER
  - INDICATES APPROXIMATE LIMITS OF SUBSTATION



MATCH LINE SEE F10743101 (2 OF 2)

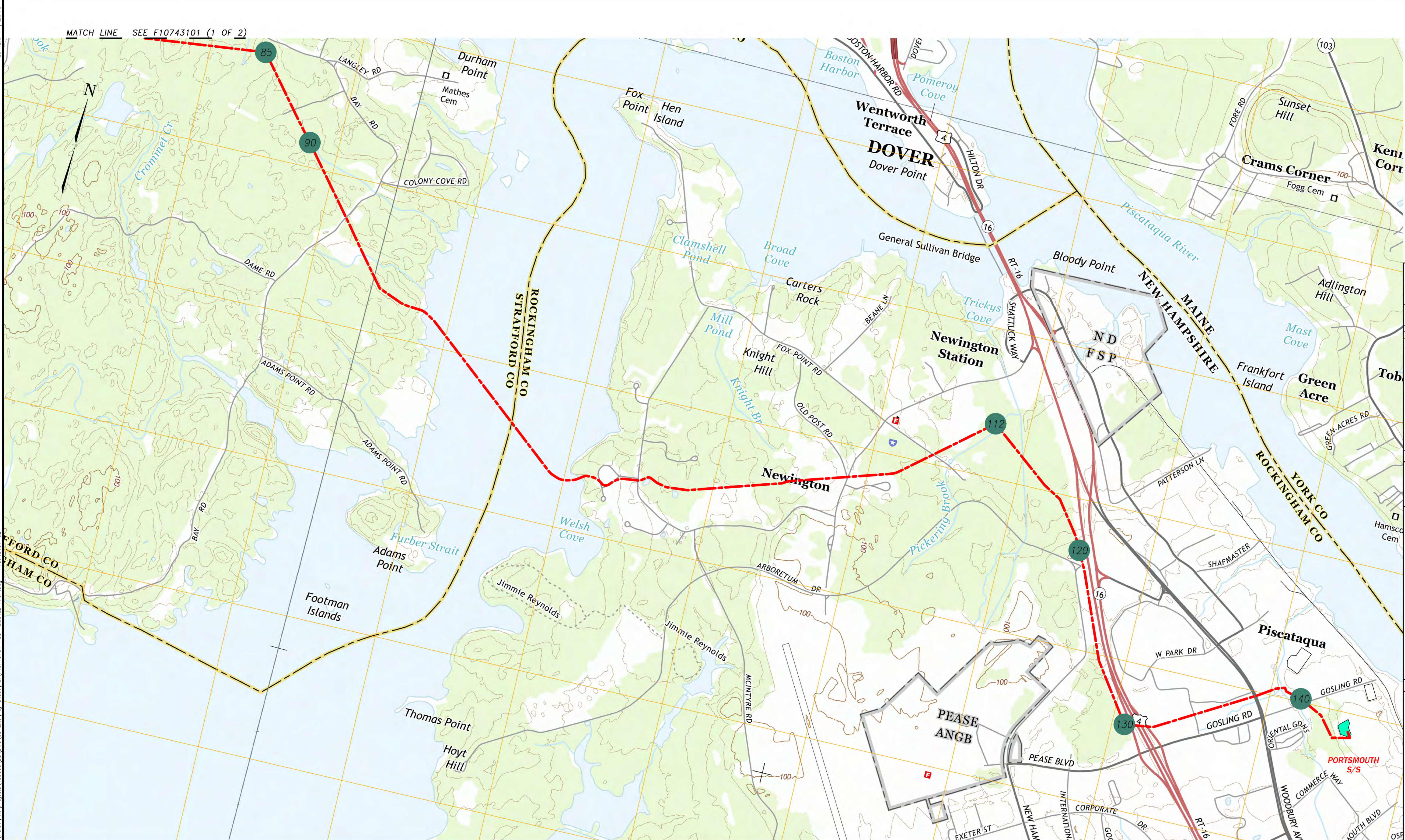
NO.	REVISION	DATE	BY	CHKD	APPV.
F	ISSUED FOR SEC. AMENDMENT	07/27/18	SCF	KMS	APU
E	UPDATED LEGEND	06/09/18	SCF	KMS	APU
D	ISSUED FOR SEC. AMENDMENT	03/07/17	SCF	KMS	APU
C	ISSUED FOR SEC. AMENDMENT	02/07/17	SCF	KMS	APU
B	ISSUED FOR DOC. REVIEW WORK	12/28/16	SCF	KMS	APU
A	ISSUED FOR DOC. REVIEW WORK	11/08/16	SCF	KMS	APU

**EVERSOURCE ENERGY**

T F  
 MADBURY SYS TO PORTSMOUTH SYS  
 115kV TRANSMISSION LINE  
 KEYSHEET  
 DATE: 07/26/18  
 SCALE: 1"=1000'  
 TOWN:  
 ORDER, DRAW, CHECK, REVISION:  
 TRANSMISSION LINE:  
**F107**  
 MILE NO.:  
 DISCIPLINE/SHT NO.:  
 SHEET 1 OF 2  
**F10743101**



7/26/2018 9:09 AM - slisner - \\treis\line\Projects\133005\DD\DWG\03\_Line\_Key\_Sheet\Ref\F10743101-FOS\_REMOVED\_FDOI.dwg - F10743101-02

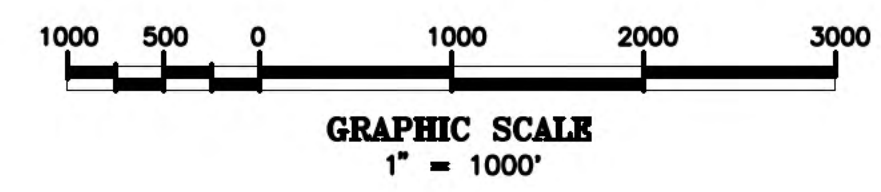


MATCH LINE SEE F10743101 (1 OF 2)



**LEGEND:**

- - - F107 LINE
- 10 F107 STRUCTURE NUMBER
- INDICATES APPROXIMATE LIMITS OF SUBSTATION



NO.	REVISION	DATE	BY	CHKD	APPRD.
A	ISSUED FOR 70% REVIEW	11/08/16	SCF	KMS	APU
B	ISSUED FOR 100% REVIEW	02/27/17	SCF	KMS	APU
C	ISSUED FOR SEC. AMENDMENT	02/27/17	SCF	KMS	APU
D	ISSUED FOR SEC. AMENDMENT	02/27/17	SCF	KMS	APU
E	UPDATED LEGEND	02/29/18	SCF	KMS	APU
F	ISSUED FOR SEC. AMENDMENT	07/27/18	SCF	KMS	APU

**EVERSOURCE ENERGY**

T	F
MADBURY S/S TO PORTSMOUTH S/S 115kV TRANSMISSION LINE KEYSHEET	
DATE: 07/26/18	
SCALE: 1" = 100'	
SHEET 2 OF 2	
F10743101	





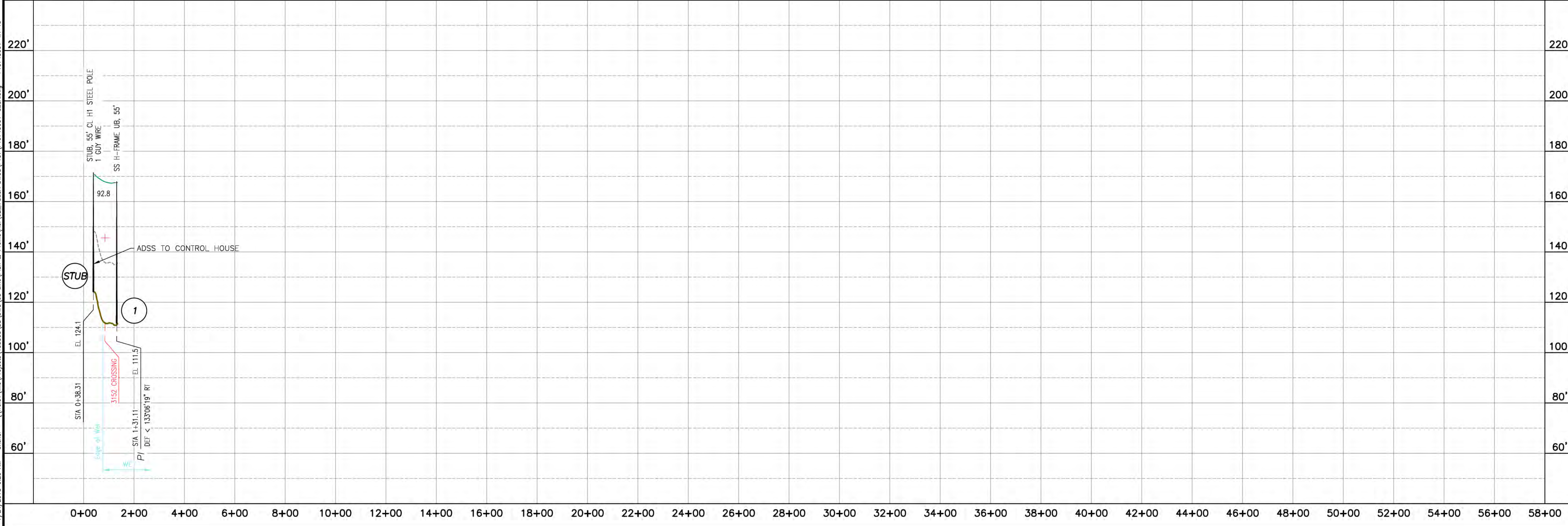
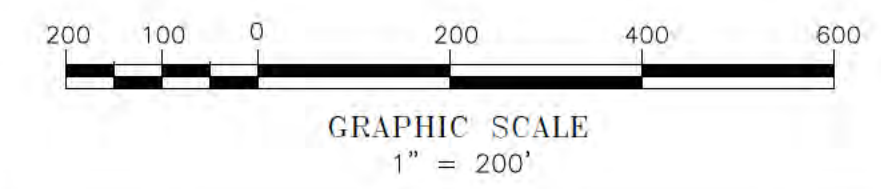
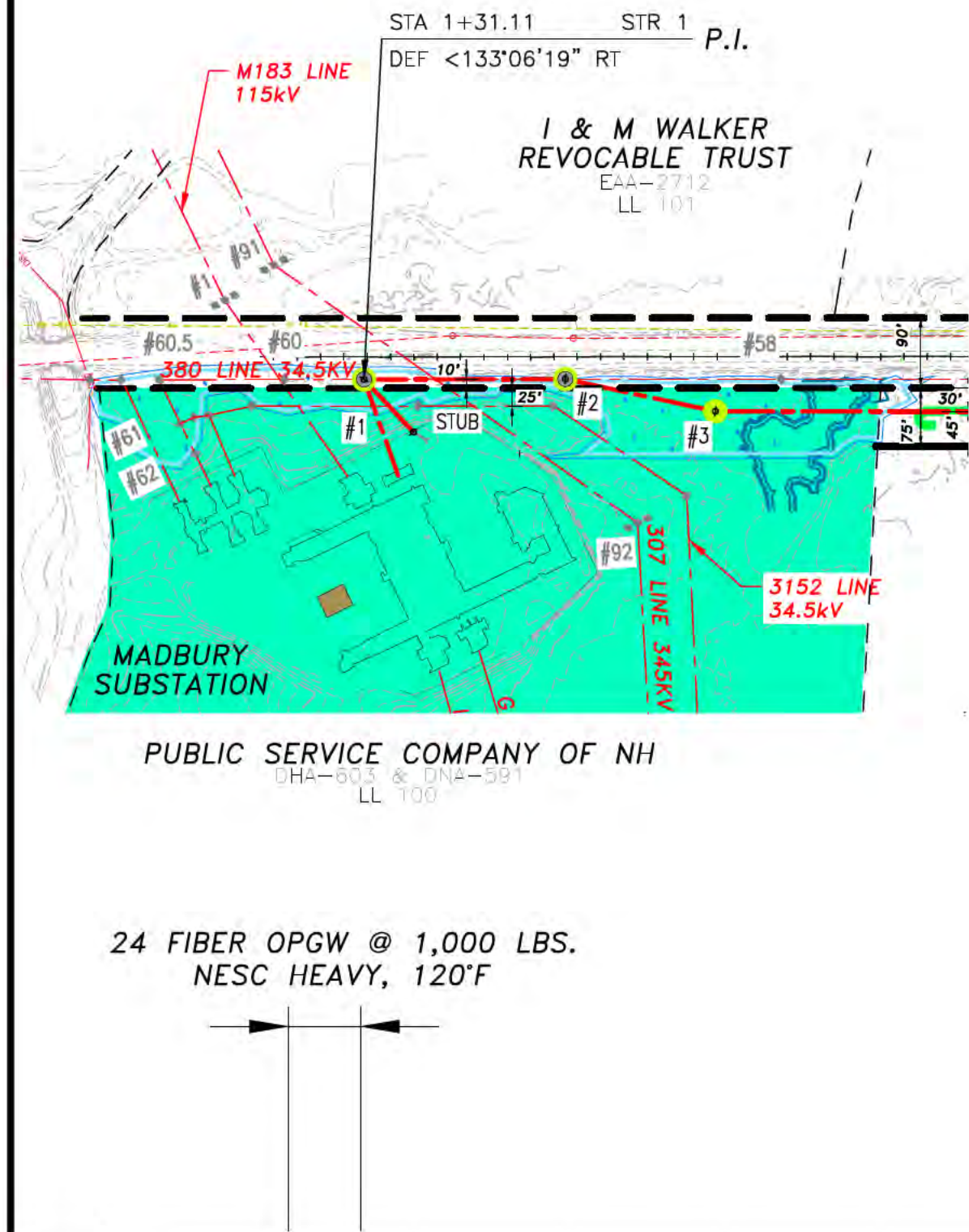






THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE

# MADBURY, N. H.



NO.	REVISION	DATE	APPR.	CHKD.	DATE	APPR.	CHKD.
H	ISSUED FOR SEC. AMENDMENT	07/27/18	SCF	KMS	APJ		
G	ISSUED FOR SEC. AMENDMENT	07/26/18	SCF	KMS	APJ		
F	TRK FARM OVERHEAD DESIGN	02/28/18	SCF	KMS	APJ		
E	ISSUED FOR BID. W/ 11278A1	06/29/17	SCF	KMS	APJ		
D	ISSUED FOR BID. W/ 11278A1	06/29/17	SCF	KMS	APJ		
C	ISSUED FOR TOR. REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ		
B	REVISION						
A							

**EVERSOURCE ENERGY**

MADBURY S/S TO PORTSMOUTH S/S  
115kV TRANSMISSION LINE  
MILE SHEET

TOWN: MADBURY, DURHAM  
TRANSMISSION LINE: F107  
MILE NO: 1  
DISCIPLINE/SHT NO.

DATE: 08/03/2018  
SCALE: H: 1"=200', V: 1"=20'

SHEET 1A OF 13  
F10743001



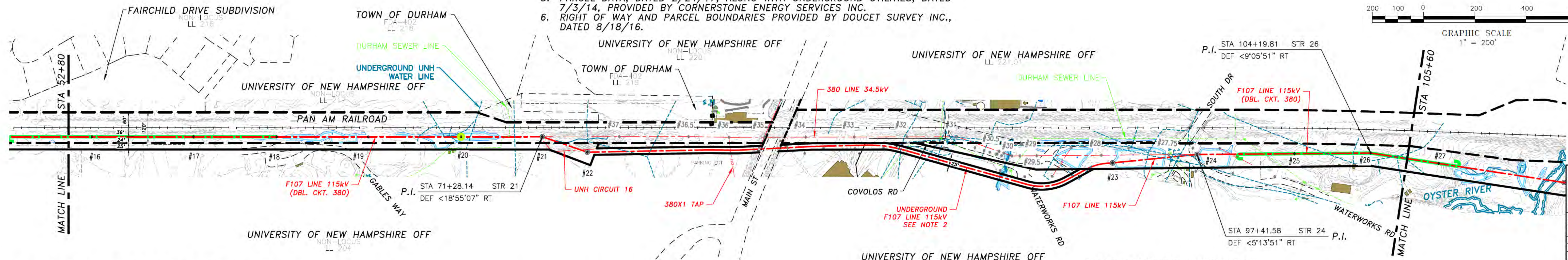


# DURHAM, N. H.

### NOTES:

1. SEE DRAWING NO. 038044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18" (DTR 04.115).
2. SEE DRAWING NO. F10743002 FOR UNDERGROUND PORTION.
3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY. UNDERGROUND POWER CABLE TO BE INSTALLED AND TERMINATED BY CABLE SUPPLIER. OVERHEAD LINE CONTRACTOR SHALL INSTALL CONNECTION FROM OVERHEAD LINE TO UNDERGROUND TERMINATION. UNDERGROUND FIBER CABLE TO BE INSTALLED BY UNDERGROUND CABLE SUPPLIER. OVERHEAD LINE CONTRACTOR RESPONSIBLE FOR SPLICING UNDERGROUND FIBER OPTIC CABLE TO ABOVE GROUND CABLE.
4. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
5. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE



1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F

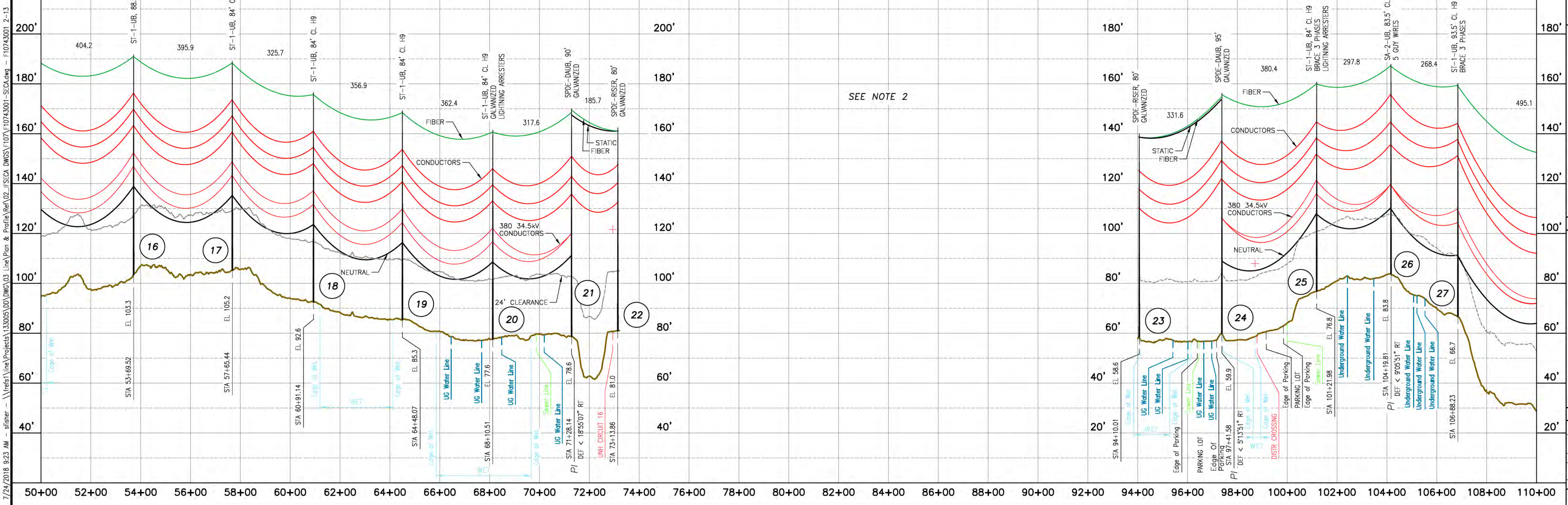
19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F

RULING SPAN = 380' (STR 10 TO STR 21)

RULING SPAN = 186' (STR 21 TO STR 22)

RULING SPAN = 331' (STR 23 TO STR 24)

RULING SPAN = 392' (STR 24 TO STR 28)



SEE NOTE 2

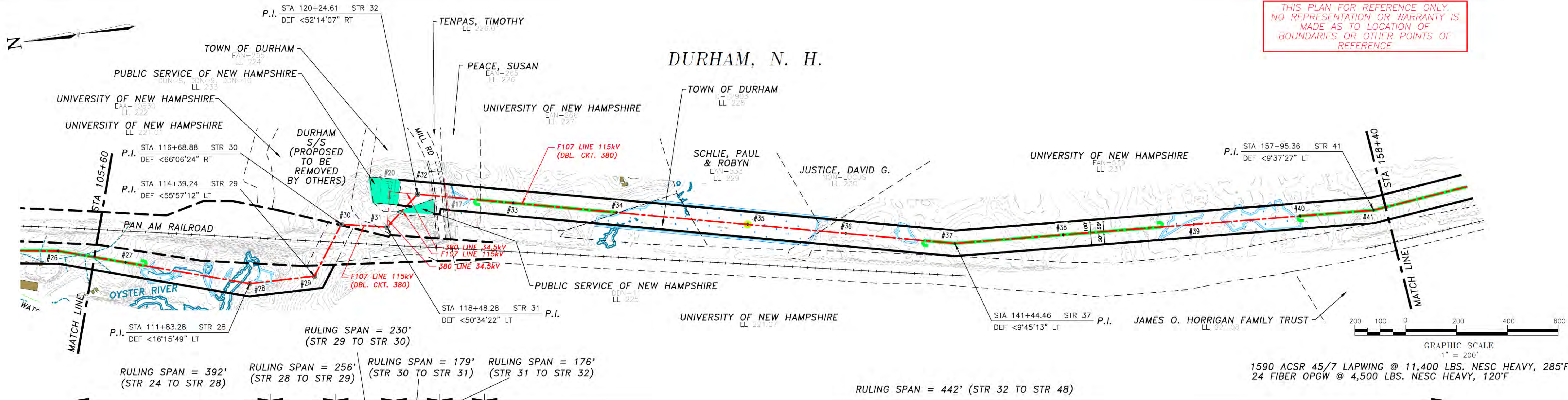
NO.	REVISION	DATE	BY	CHKD	APPR.
J	ISSUED FOR SEC. AMENDMENT	07/27/19	SCF	KMS	APJ
I	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
H	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
G	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
F	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
E	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
D	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
C	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
B	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
A	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ

**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
115kV TRANSMISSION LINE  
MILE SHEET  
DATE: 08/03/2016  
SCALE: H. 1"=200', V. 1"=20'  
SHEET 2 OF 13  
F10743001



7/24/2018 9:23 AM - alisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Ref\02\_IFSCA\_DWG\F107\F10743001-SECA.dwg - F10743001\_3-13



THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE

RULING SPAN = 392' (STR 24 TO STR 28)

RULING SPAN = 256' (STR 28 TO STR 29)

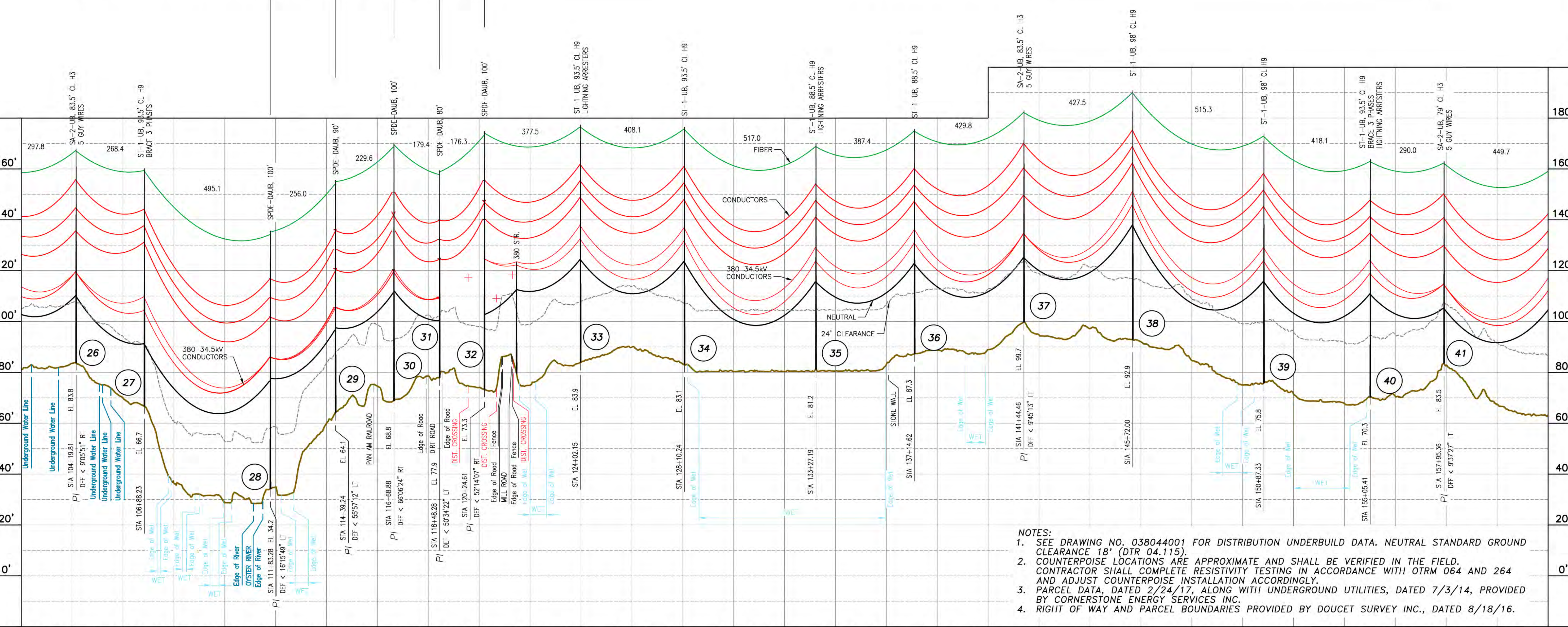
RULING SPAN = 179' (STR 30 TO STR 31)

RULING SPAN = 176' (STR 31 TO STR 32)

RULING SPAN = 442' (STR 32 TO STR 48)

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285'F

24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120'F



- NOTES:
- SEE DRAWING NO. 038044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/27/19	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
3	TRK FARM OVERHEAD DESIGN	08/29/19	SCF	KMS	APJ
4	ISSUED FOR BID. W/ 11276A1	08/29/17	SCF	KMS	APJ
5	ISSUED FOR DMR REVIEW W/ 11276A1	04/27/17	SCF	KMS	APJ
6	ISSUED FOR DMR REVIEW W/ 11276A1	04/27/17	SCF	KMS	APJ
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**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
115kV TRANSMISSION LINE  
MILE SHEET

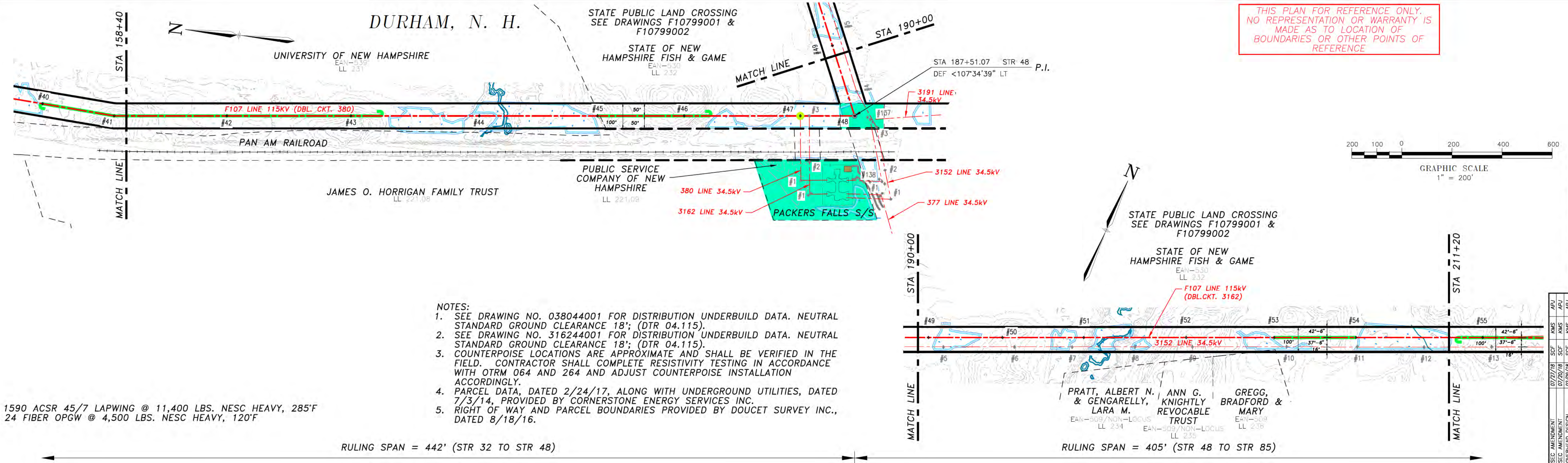
DATE: 09/03/2016  
SCALE: H: 1"=200', V: 1"=20'

SHEET 3 OF 13  
F10743001



ES MER. 11/2015

7/24/2018 9:23 AM - flisher - \\trsl\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Ref\02\_IFSCA\_DWG\F107\F10743001-SECA.dwg - F10743001\_4-13



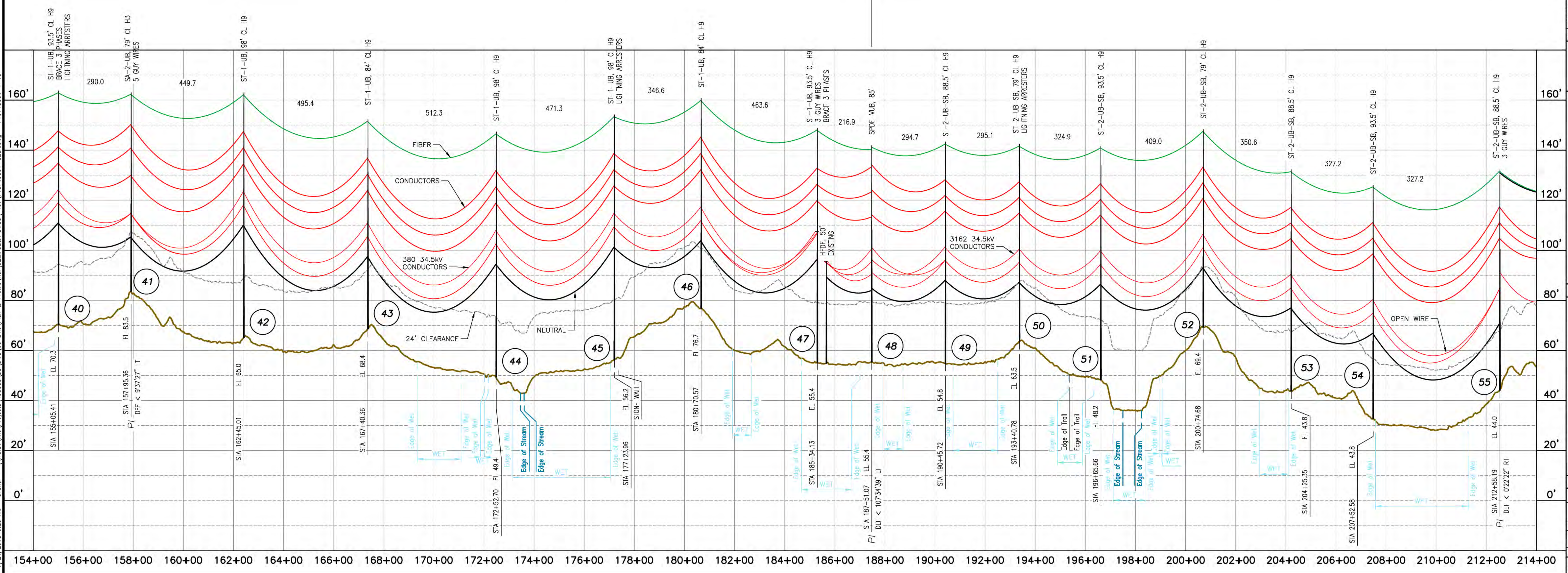
THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE

- NOTES:
- SEE DRAWING NO. 038044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18'; (DTR 04.115).
  - SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18'; (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 442' (STR 32 TO STR 48)

RULING SPAN = 405' (STR 48 TO STR 85)



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR SEC. AMENDMENT	07/27/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	07/29/18	SCF	KMS	APJ
3	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
4	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
5	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
6	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
7	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
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10	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
11	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
12	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
13	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
14	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
15	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
16	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
17	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
18	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
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20	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ
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55	ISSUED FOR SEC. AMENDMENT	08/29/18	SCF	KMS	APJ

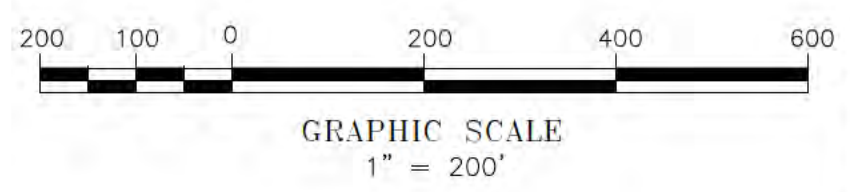
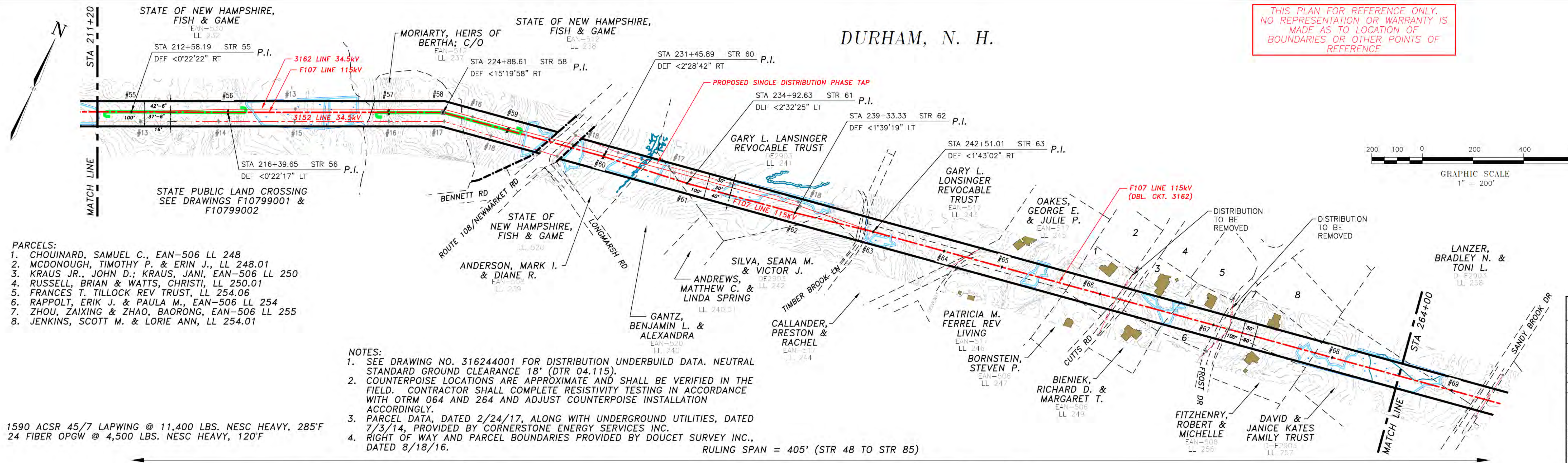
**EVERSOURCE ENERGY**

MADBURY S/S TO PORTSMOUTH S/S  
115kV TRANSMISSION LINE  
MILE SHEET  
DATE: 08/03/2018  
SCALE: H. 1"=200', V. 1"=20'



# DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE

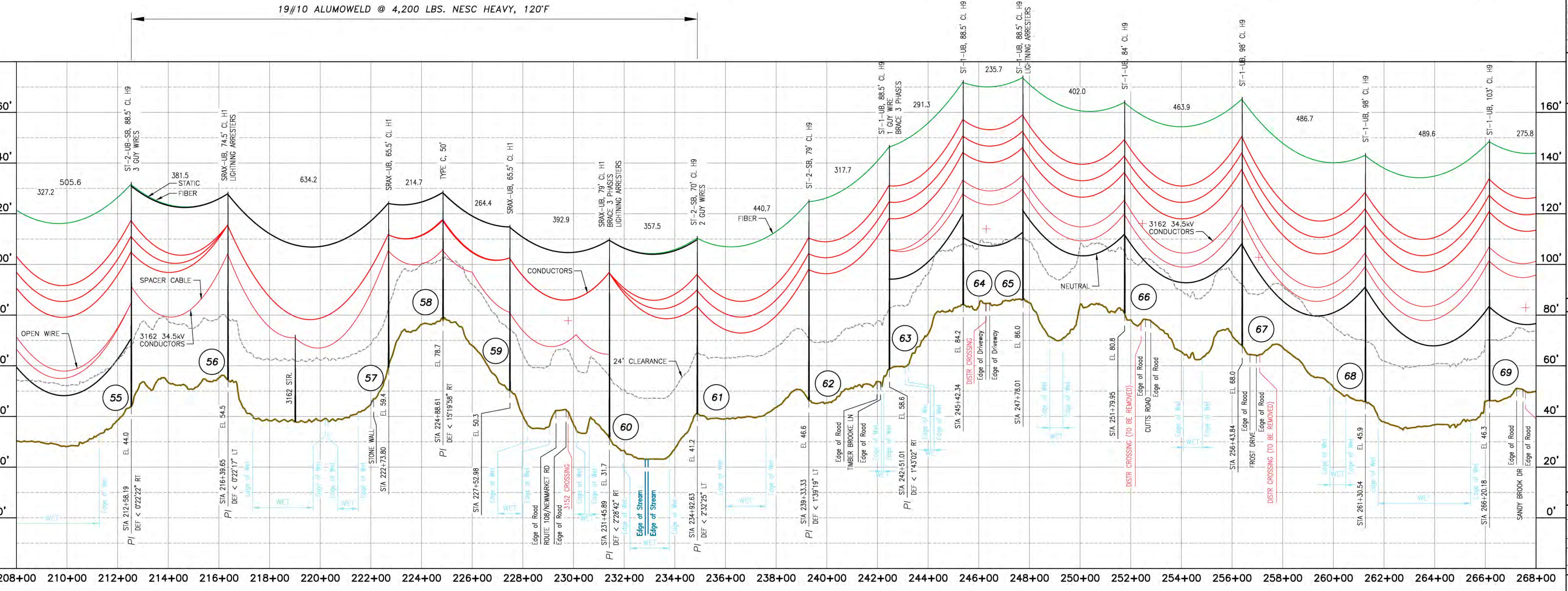


- PARCELS:
1. CHOUINARD, SAMUEL C., EAN-506 LL 248
  2. MCDONOUGH, TIMOTHY P. & ERIN J., LL 248.01
  3. KRAUS JR., JOHN D.; KRAUS, JANI, EAN-506 LL 250
  4. RUSSELL, BRIAN & WATTS, CHRISTI, LL 250.01
  5. FRANCES T. TILLOCK REV TRUST, LL 254.06
  6. RAPPOLT, ERIK J. & PAULA M., EAN-506 LL 254
  7. ZHOU, ZAIXING & ZHAO, BAORONG, EAN-506 LL 255
  8. JENKINS, SCOTT M. & LORIE ANN, LL 254.01

- NOTES:
1. SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  2. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F



NO.	REVISION	DATE	BY	CHKD	APPV
1	ISSUED FOR SEC AMENDMENT	07/27/18	SCF	KMS	APJ
2	ISSUED FOR SEC AMENDMENT	07/29/18	SCF	KMS	APJ
3	TRK FARM OVERHEAD DESIGN	02/09/18	SCF	KMS	APJ
4	ISSUED FOR BID W/ 11278A1	04/26/17	SCF	KMS	APJ
5	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
6	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
7	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
8	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
9	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
10	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
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12	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
13	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
14	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
15	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
16	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
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18	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
19	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
20	ISSUED FOR O&M REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ

**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
115kV TRANSMISSION LINE  
MILE SHEET  
DATE: 08/02/2018  
SCALE: H: 1"=200', V: 1"=20'  
SHEET 5 OF 13  
F10743001

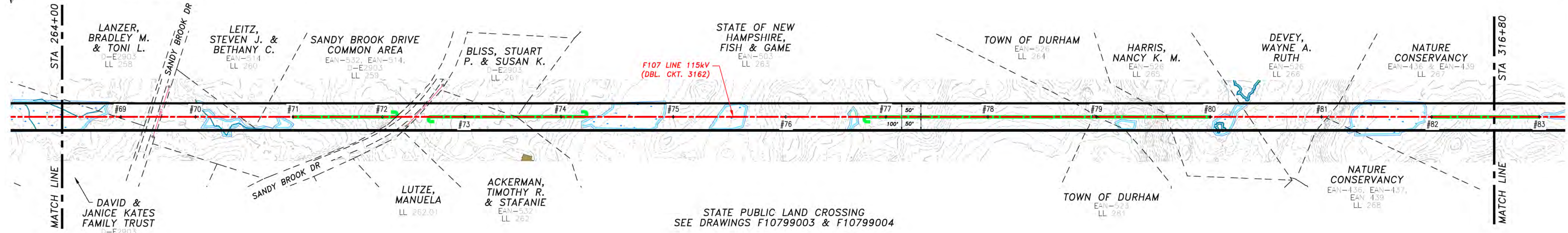
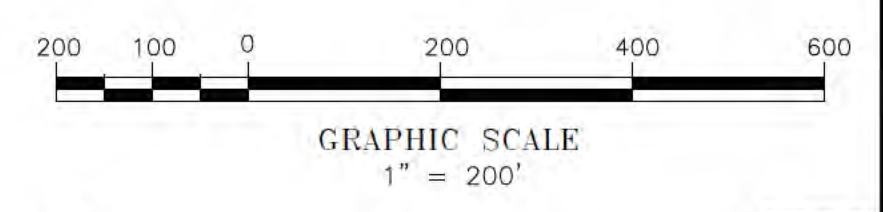




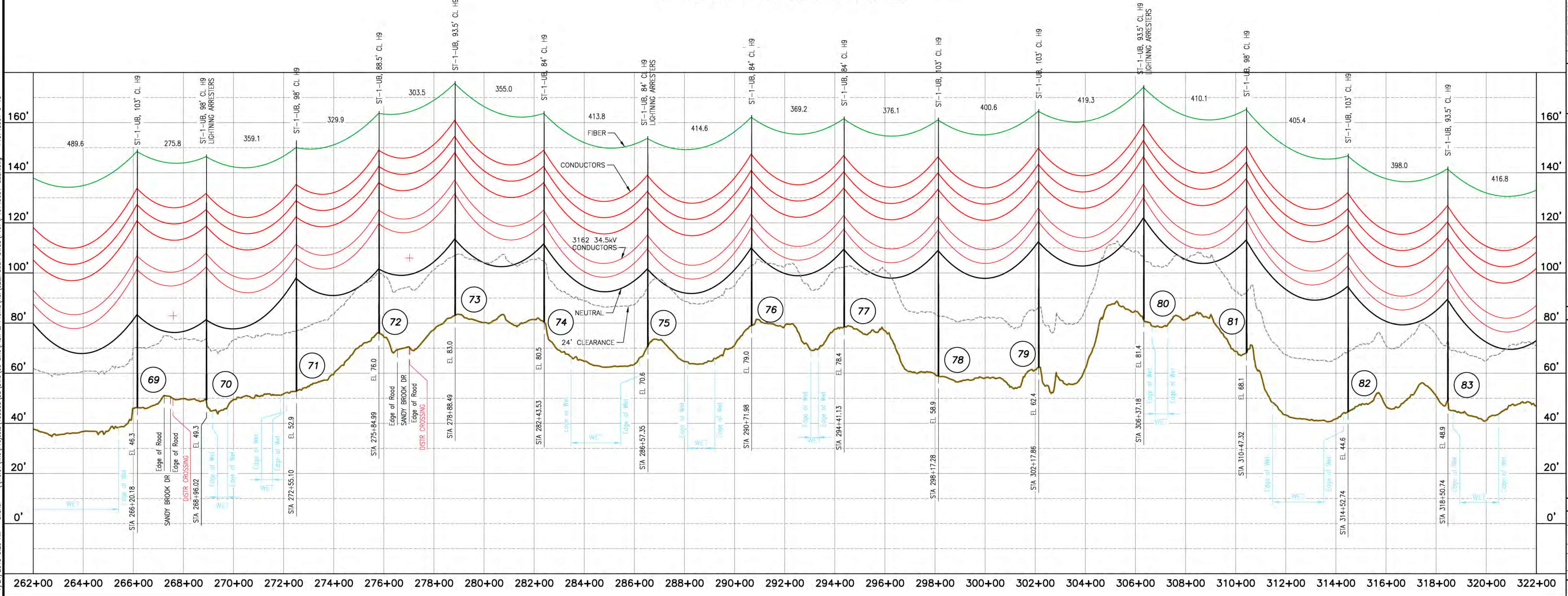
- NOTES:
- SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

# DURHAM, N. H.

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REFERENCE



RULING SPAN = 405' (STR 48 TO STR 85)  
1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F



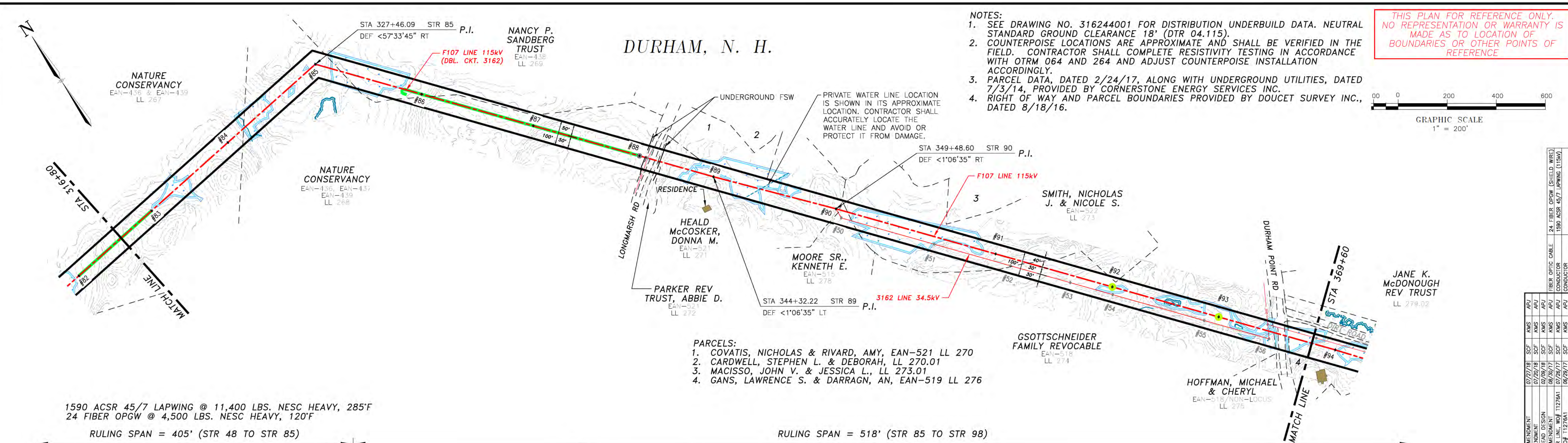
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NO.	REVISION	DATE	BY	CHKD	APPV.
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2	ISSUED FOR SEC. AMENDMENT	07/29/18	SCF	KMS	ARJ
3	TRK/FARM OVERHEAD DESIGN	02/29/19	SCF	KMS	ARJ
4	ISSUED FOR BID W/ 1127641	06/29/17	SCF	KMS	ARJ
5	ISSUED FOR BID W/ 1127641	06/29/17	SCF	KMS	ARJ
6	ISSUED FOR UDR REVIEW W/ 1127641	04/27/17	SCF	KMS	ARJ
7	ISSUED FOR UDR REVIEW W/ 1127641	04/27/17	SCF	KMS	ARJ
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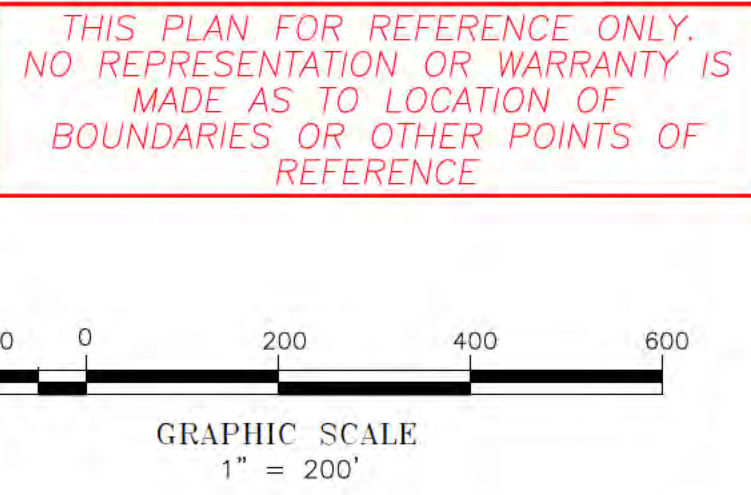
**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
115kV TRANSMISSION LINE  
MILE SHEET  
DATE: 06/02/2016  
SCALE: H: 1"=200', V: 1"=20'  
DES: TOR CHK: KMS  
DRW: SCF  
TOWN: DURHAM  
TRANSMISSION LINE: F107  
MILE NO: 6  
DISCIPLINE/SHT NO.  
SHEET 6 OF 13  
F10743001





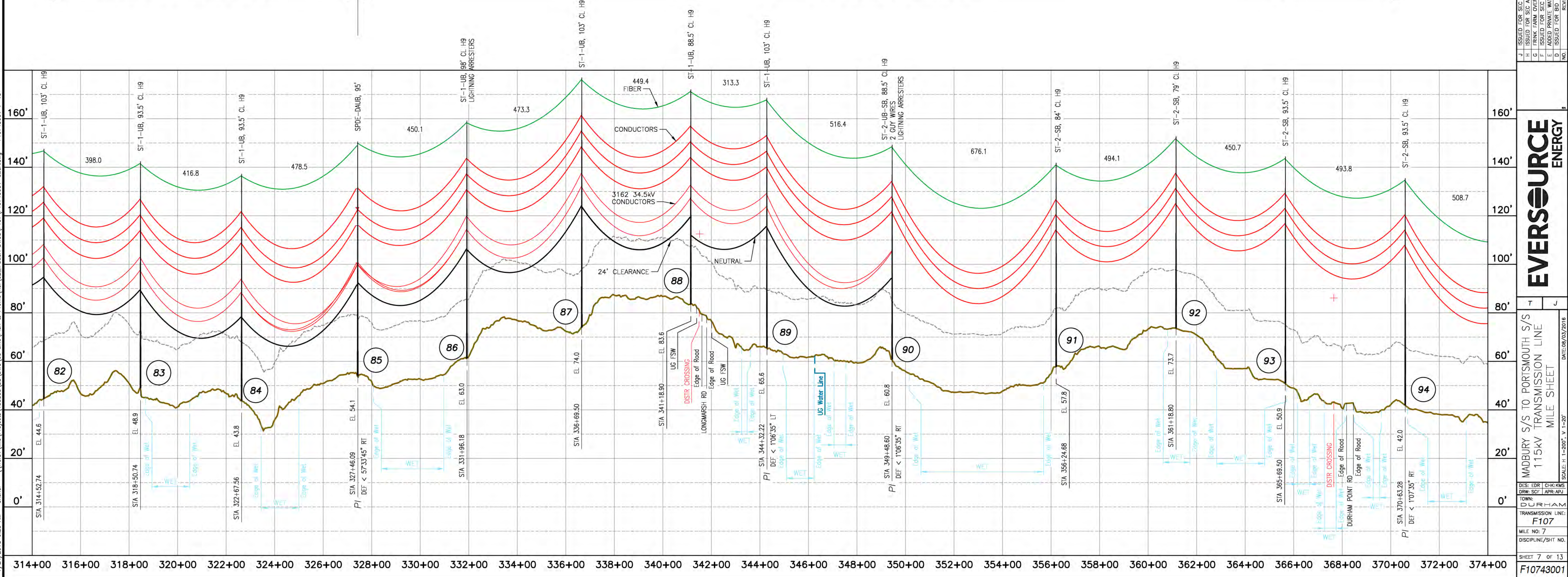
- NOTES:
1. SEE DRAWING NO. 316244001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  2. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.



1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
 24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F  
 RULING SPAN = 405' (STR 48 TO STR 85)

RULING SPAN = 518' (STR 85 TO STR 98)

- PARCELS:
1. COVATIS, NICHOLAS & RIVARD, AMY, EAN-521 LL 270
  2. CARDWELL, STEPHEN L. & DEBORAH, LL 270.01
  3. MACISSO, JOHN V. & JESSICA L., LL 273.01
  4. GANS, LAWRENCE S. & DARRAGN, AN, EAN-519 LL 276



NO.	REVISION	DATE	BY	CHKD	APPV.
J	ISSUED FOR SEC. AMENDMENT	07/27/19	SCF	KMS	APJ
I	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
H	ISSUED FOR SEC. AMENDMENT	02/29/19	SCF	KMS	APJ
G	TRUNK FARM OVERHEAD DESIGN	02/29/19	SCF	KMS	APJ
F	ADDED PRIVATE WATER LINE, W/ 1127841	07/26/17	SCF	KMS	APJ
E	ADDED PRIVATE WATER LINE, W/ 1127841	07/26/17	SCF	KMS	APJ
D	ISSUED FOR BID W/ 1127841	06/29/17	SCF	KMS	APJ
C	ISSUED FOR BID W/ 1127841	06/29/17	SCF	KMS	APJ
B	ISSUED FOR BID W/ 1127841	06/29/17	SCF	KMS	APJ
A	ISSUED FOR BID W/ 1127841	06/29/17	SCF	KMS	APJ

**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
 115kV TRANSMISSION LINE  
 MILE SHEET

TOWN: DURHAM  
 TRANSMISSION LINE: F107  
 MILE NO: 7  
 DISCIPLINE/SHT NO.

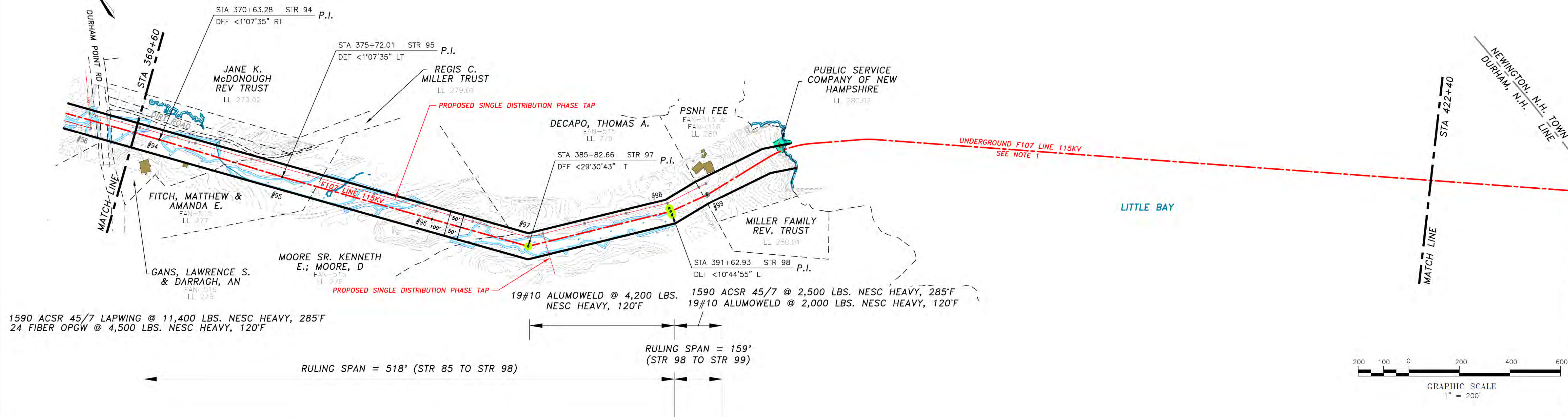
DATE: 06/03/2016  
 SCALE: H: 1"=200', V: 1"=20'

SHEET 7 OF 13  
 F10743001



# DURHAM, N. H.

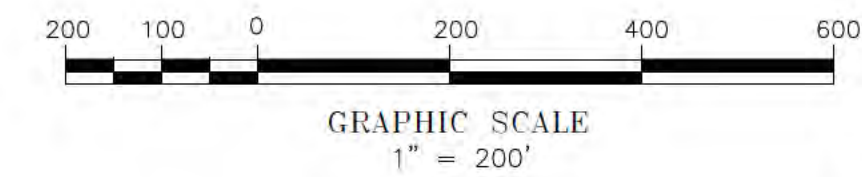
THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



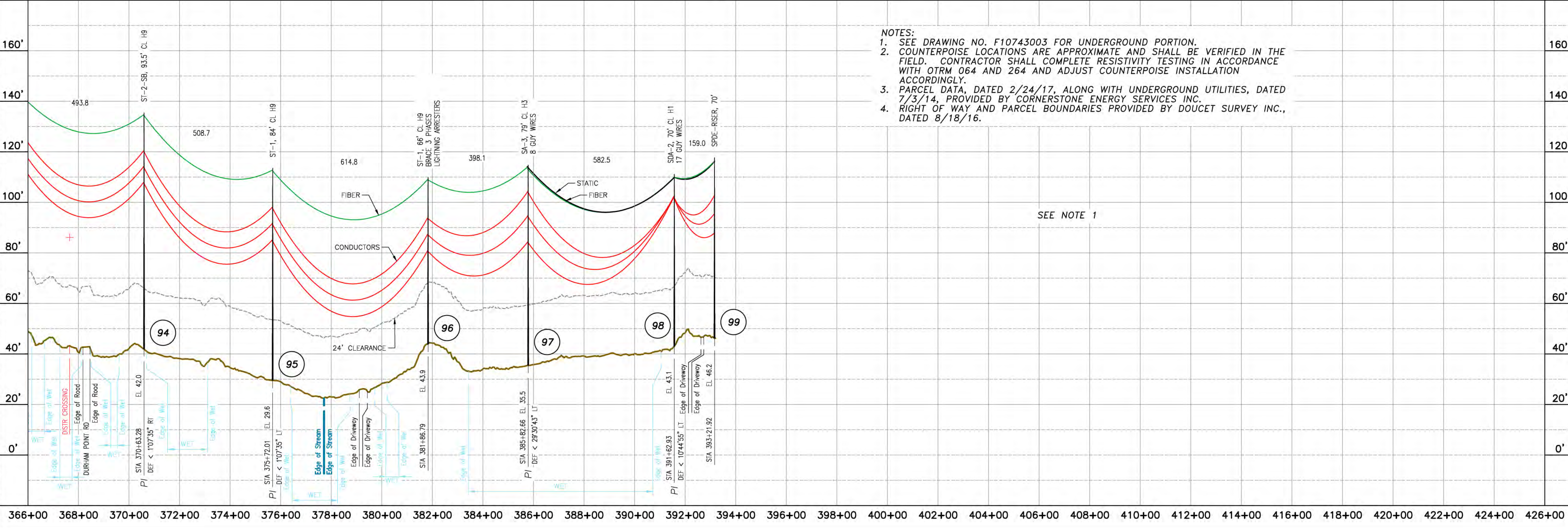
1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
 24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 518' (STR 85 TO STR 93)

RULING SPAN = 159' (STR 98 TO STR 99)



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/27/19	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
3	TRK FARM OVERHEAD DESIGN	02/29/19	SCF	KMS	APJ
4	ISSUED FOR BID. W/ 11276A1	06/29/17	SCF	KMS	APJ
5	ISSUED FOR ODR. REVIEW W/ 11276A1	04/27/17	SCF	KMS	APJ
6	ISSUED FOR ODR. REVIEW W/ 11276A1	04/27/17	SCF	KMS	APJ
7	CONDUCTOR				
8	CONDUCTOR				
9	CONDUCTOR				
10	CONDUCTOR				
11	CONDUCTOR				
12	CONDUCTOR				
13	CONDUCTOR				
14	CONDUCTOR				
15	CONDUCTOR				
16	CONDUCTOR				
17	CONDUCTOR				
18	CONDUCTOR				
19	CONDUCTOR				
20	CONDUCTOR				



- NOTES:
- SEE DRAWING NO. F10743003 FOR UNDERGROUND PORTION.
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

SEE NOTE 1

## EVERSOURCE ENERGY

MADBURY SYS TO PORTSMOUTH SYS  
 115kV TRANSMISSION LINE  
 MILE SHEET

TOWN: DURHAM  
 TRANSMISSION LINE: F107  
 MILE NO: 8  
 DISCIPLINE/SHT NO.

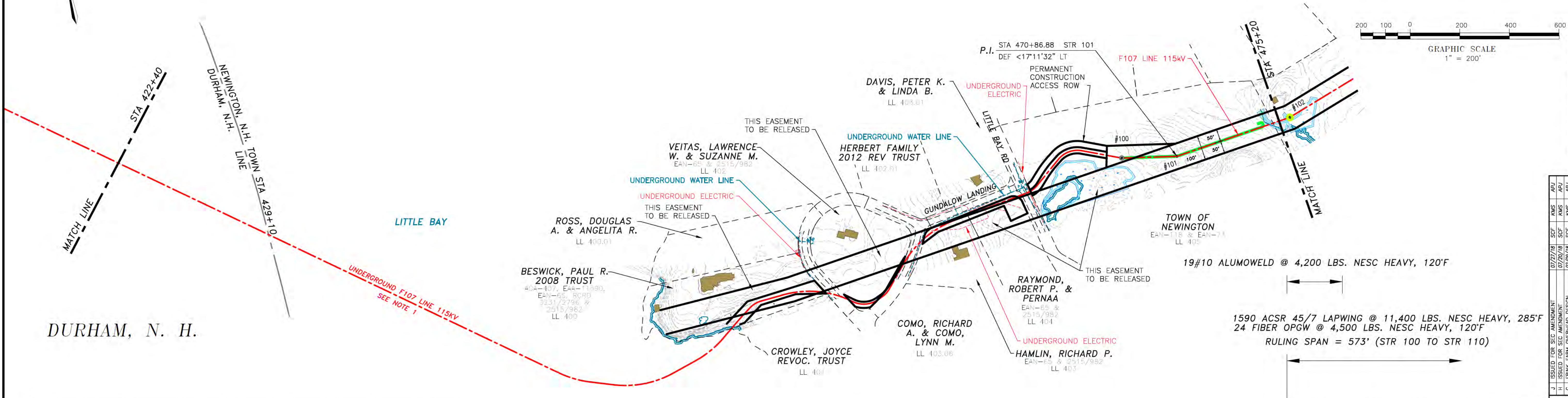
DATE: 08/03/2016  
 SCALE: H: 1"=200', V: 1"=20'

SHEET 8 OF 13  
 F10743001

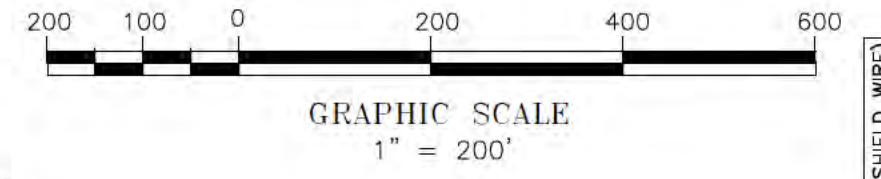


# NEWINGTON, N. H.

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MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



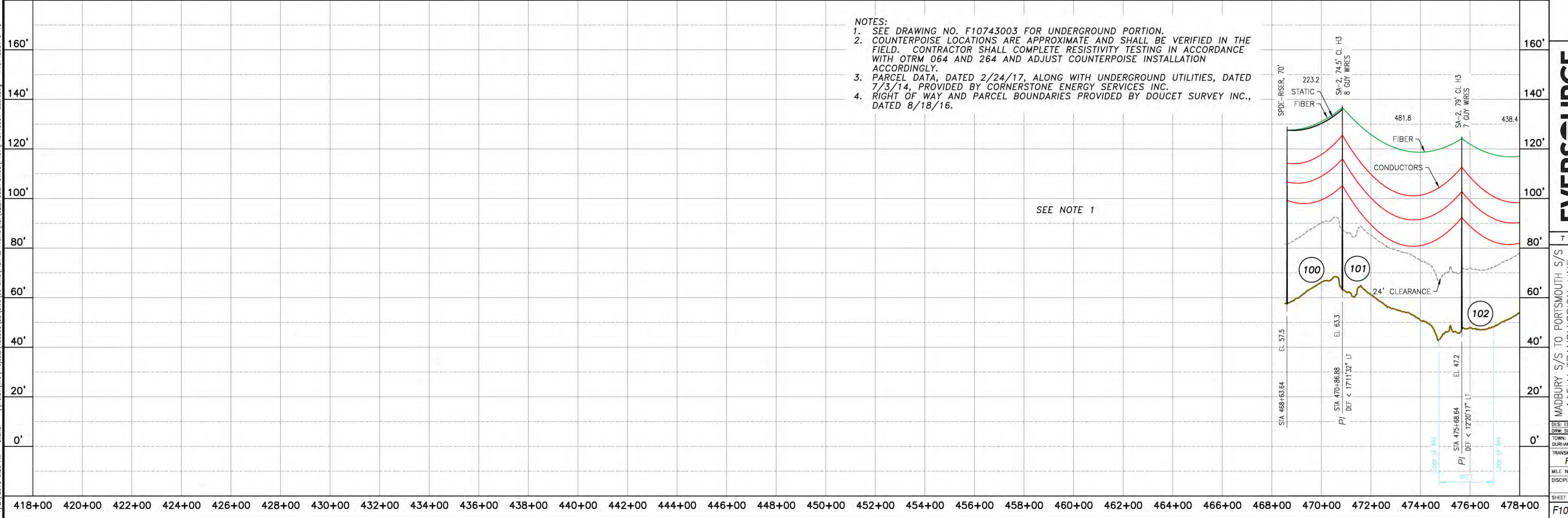
DURHAM, N. H.



19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120'F

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285'F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120'F  
RULING SPAN = 573' (STR 100 TO STR 110)

NO.	REVISION	DATE	BY	CHKD	APPV.
J	ISSUED FOR SEC. AMENDMENT	07/27/19	SCF	KMS	APJ
I	ISSUED FOR SEC. AMENDMENT	07/29/19	SCF	KMS	APJ
H	ISSUED FOR SEC. AMENDMENT	02/29/19	SCF	KMS	APJ
G	TRK FARM OVERHEAD DESIGN	02/29/19	SCF	KMS	APJ
F	UPDATED STRUCTURE 100 W/ 11278A1	06/06/17	SCF	KMS	APJ
E	ISSUED FOR BID W/ 11278A1	06/29/17	SCF	KMS	APJ
D	ISSUED FOR BID W/ 11278A1	06/29/17	SCF	KMS	APJ
C					
B					
A					



- NOTES:
1. SEE DRAWING NO. F10743003 FOR UNDERGROUND PORTION.
  2. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

SEE NOTE 1

# EVERSOURCE ENERGY

MADBURY S/S TO PORTSMOUTH S/S  
115kV TRANSMISSION LINE  
MILE SHEET

TOWN: DURHAM, NEWINGTON  
TRANSMISSION LINE: F107  
MILE NO: 9  
DISCIPLINE/SHT NO:

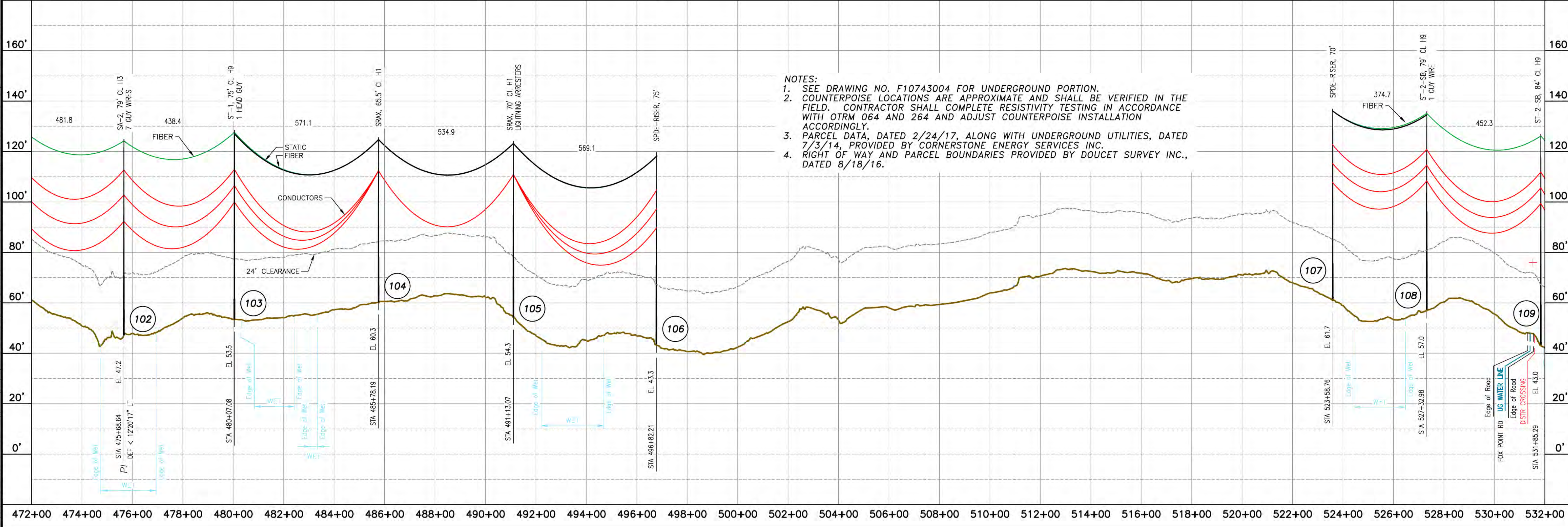
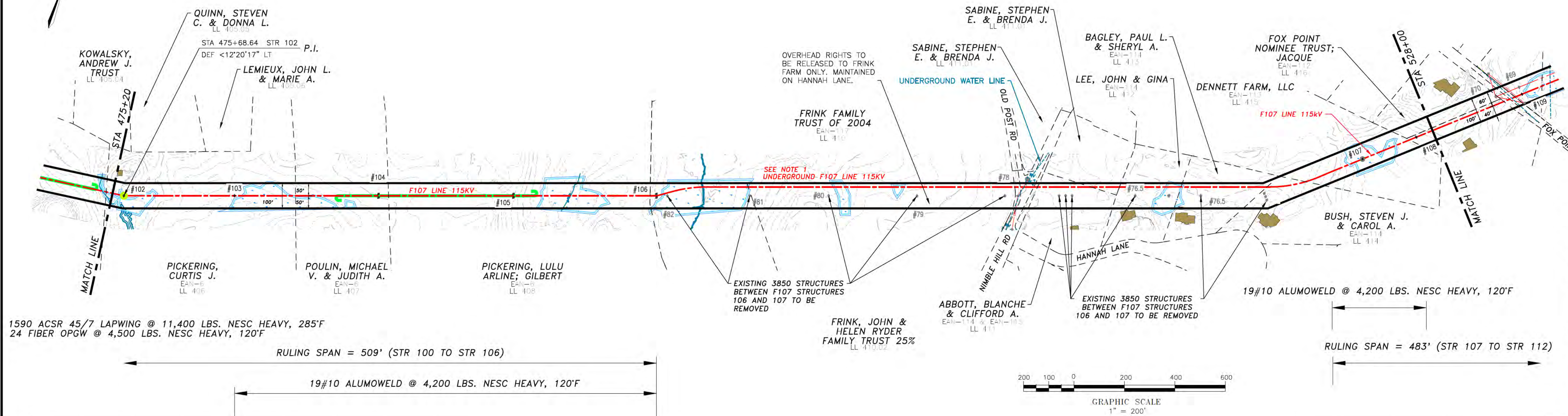
DATE: 08/03/2016  
SCALE: H: 1"=200', V: 1"=20'

SHEET 9 OF 13  
F10743001



# NEWINGTON, N. H.

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE.



NOTES:  
 1. SEE DRAWING NO. F10743004 FOR UNDERGROUND PORTION.  
 2. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.  
 3. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.  
 4. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

NO.	REVISION	DATE	BY	CHKD	APPV.
J	ISSUED FOR SEC. AMENDMENT	07/27/18	SCF	KMS	APJ
I	ISSUED FOR SEC. AMENDMENT	07/26/18	SCF	KMS	APJ
H	ISSUED FOR OVERHEAD DESIGN	02/29/18	SCF	KMS	APJ
G	FRANK FARM OVERHEAD DESIGN	02/29/18	SCF	KMS	APJ
F	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ
E	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ
D	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ
C	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ
B	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ
A	ISSUED FOR BIDDING	06/26/17	SCF	KMS	APJ

**EVERSOURCE ENERGY**

MADBURY SYS TO PORTSMOUTH SYS  
 115kV TRANSMISSION LINE  
 MILE SHEET

DATE: 09/03/2016  
 SCALE: H: 1"=200', V: 1"=20'

DESIGN: SCF  
 CHECKED: KMS  
 DRAWN: SCF  
 TOWN: NEWINGTON  
 TRANSMISSION LINE: F107  
 MILE NO: 10  
 DISCIPLINE/SHT NO: SHEET 10 OF 13  
 F10743001



ES VER. 11/2015

3850 DISTRIBUTION TO BE REMOVED FROM LITTLE BAY TO FOX POINT ROAD

FOX POINT, NOMINEE TRUST; JACQUE E&N-112 LL 416

D'ALESSANDRO, PHILOMENA E&N-111 LL 418

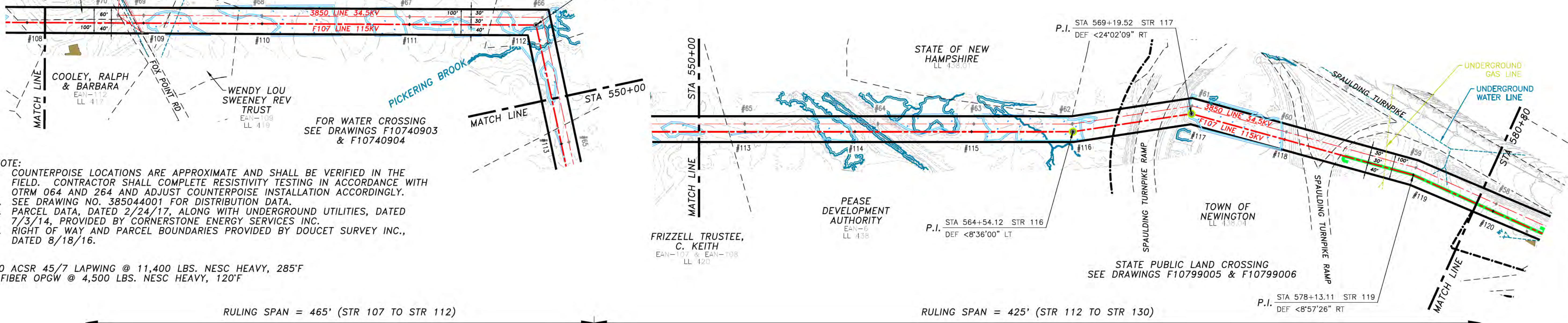
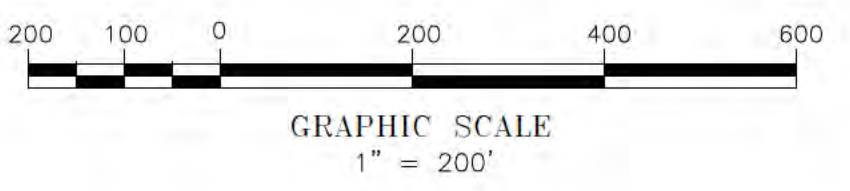
FRIZZELL TRUSTEE, C. KEITH E&N-107 & E&N-108 LL 420

25 NIMBLE ROAD, LLC LL 420

STA 547+09.26 STR 112 P.I. DEF <77°43'32" RT

# NEWINGTON, N. H.

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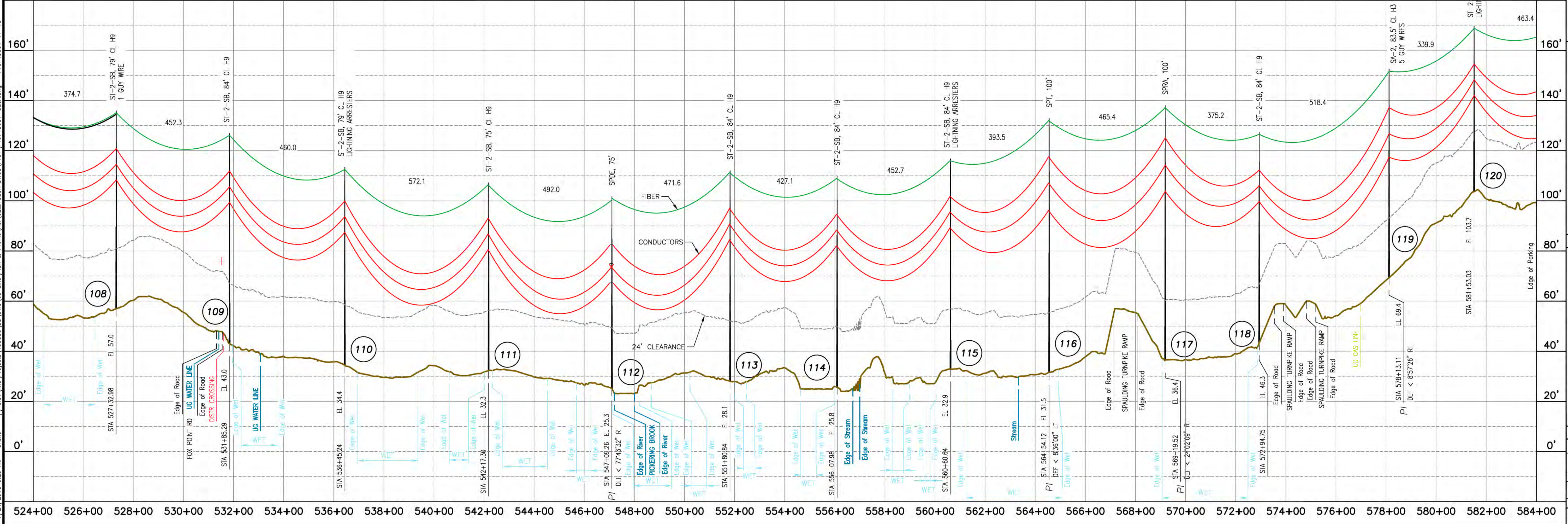
- NOTE:
- COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - SEE DRAWING NO. 385044001 FOR DISTRIBUTION DATA.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 465' (STR 107 TO STR 112)

RULING SPAN = 425' (STR 112 TO STR 130)

7/24/2018 9:23 AM - fisher - \\files\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Ref\02\_IFSCA\_DWG\F107\F10743001-SECA.dwg - F10743001 11-13



NO.	REVISION	DATE	BY	CHKD	APPR.
1	ISSUED FOR SEC AMENDMENT	07/27/19	SCF	KMS	APJ
2	ISSUED FOR SEC AMENDMENT	07/29/19	SCF	KMS	APJ
3	ISSUED FOR SEC AMENDMENT	08/29/19	SCF	KMS	APJ
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99	ISSUED FOR SEC AMENDMENT	08/29/19	SCF	KMS	APJ
100	ISSUED FOR SEC AMENDMENT	08/29/19	SCF	KMS	APJ

# EVERSOURCE ENERGY

MADBURY SYS TO PORTSMOUTH SYS  
115kV TRANSMISSION LINE  
MILE SHEET

DATE: 08/03/2016

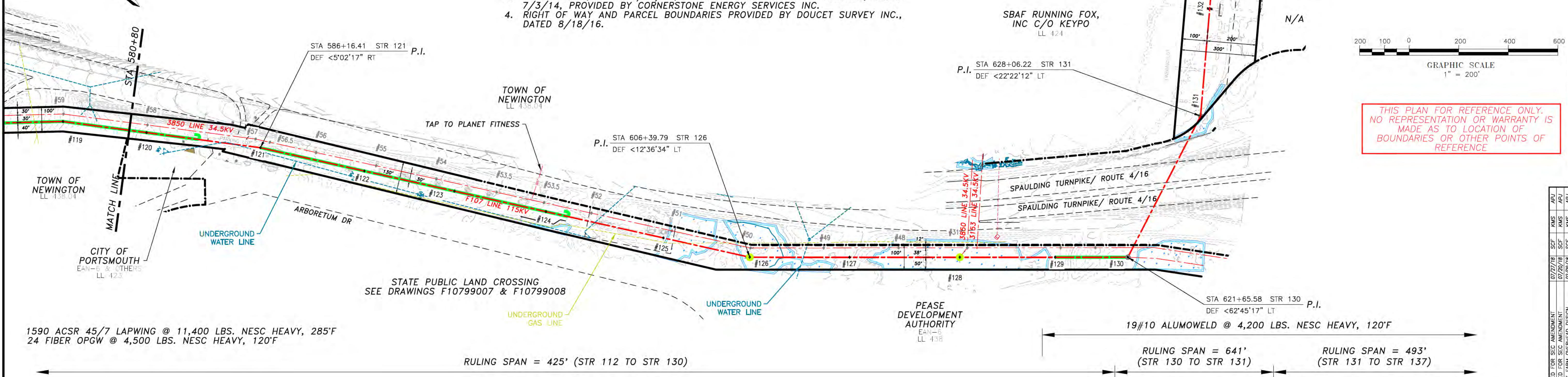
SCALE: 1" = 200', V. 1-20'

SHEET 11 OF 13  
F10743001



# NEWINGTON, N. H.

- NOTES:**
- SEE DRAWING NO. 385044001 FOR DISTRIBUTION UNDERBUILD DATA. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.



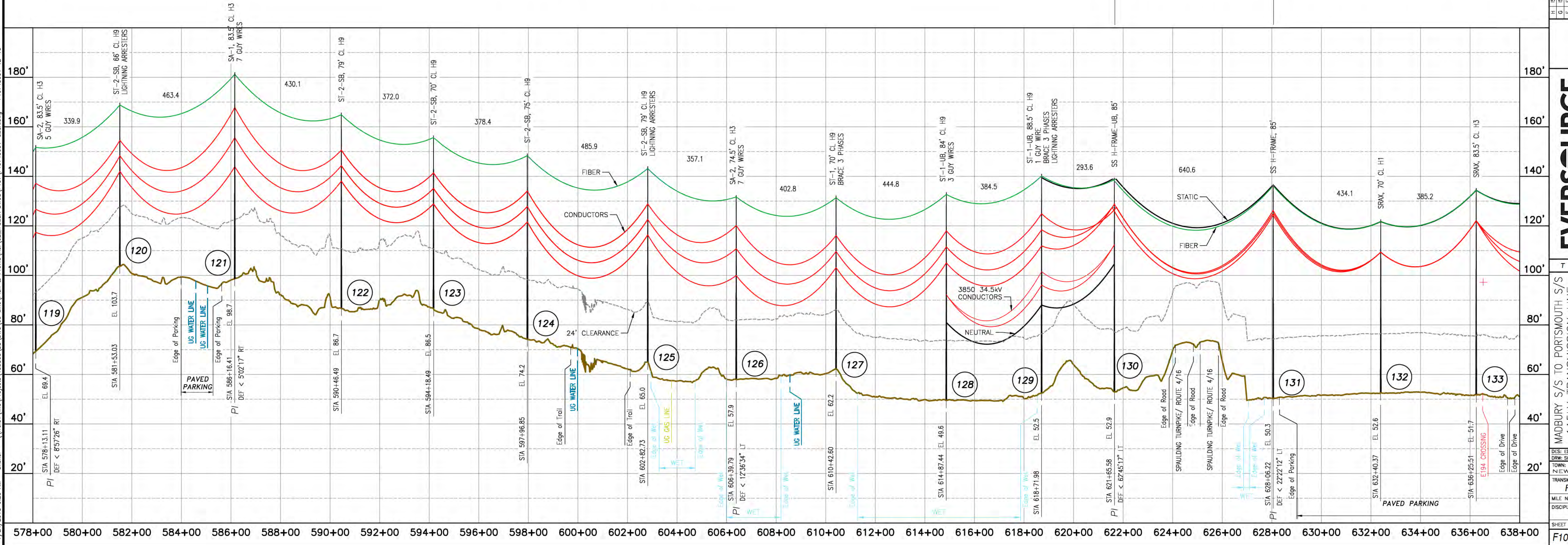
1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F  
 24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 425' (STR 112 TO STR 130)

19#10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F

RULING SPAN = 641' (STR 130 TO STR 131)

RULING SPAN = 493' (STR 131 TO STR 137)



7/24/2018 9:23 AM - flisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Ref\02\_ISSICA\_DWG\F107\F10743001-SECA.dwg - F10743001 12-13

NO.	REVISION	DATE	BY	CHKD	APPR.
H	ISSUED FOR SEC AMENDMENT	07/27/19	SCF	KMS	APJ
G	ISSUED FOR SEC AMENDMENT	07/29/19	SCF	KMS	APJ
F	TRK FARM OVERHEAD DESIGN	02/28/19	SCF	KMS	APJ
E	ISSUED FOR BID W/ 11278A1	06/29/17	SCF	KMS	APJ
D	ISSUED FOR BID W/ 11278A1	06/29/17	SCF	KMS	APJ
C	ISSUED FOR DMR REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
B	ISSUED FOR DMR REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ
A	ISSUED FOR DMR REVIEW W/ 11278A1	04/27/17	SCF	KMS	APJ

**EVERSOURCE**  
ENERGY

MADBURY SYS TO PORTSMOUTH SYS  
 115kV TRANSMISSION LINE  
 MILE SHEET  
 DATE: 09/03/2016  
 SCALE: H: 1"=200', V: 1"=20'  
 SHEET 12 OF 13  
 F10743001





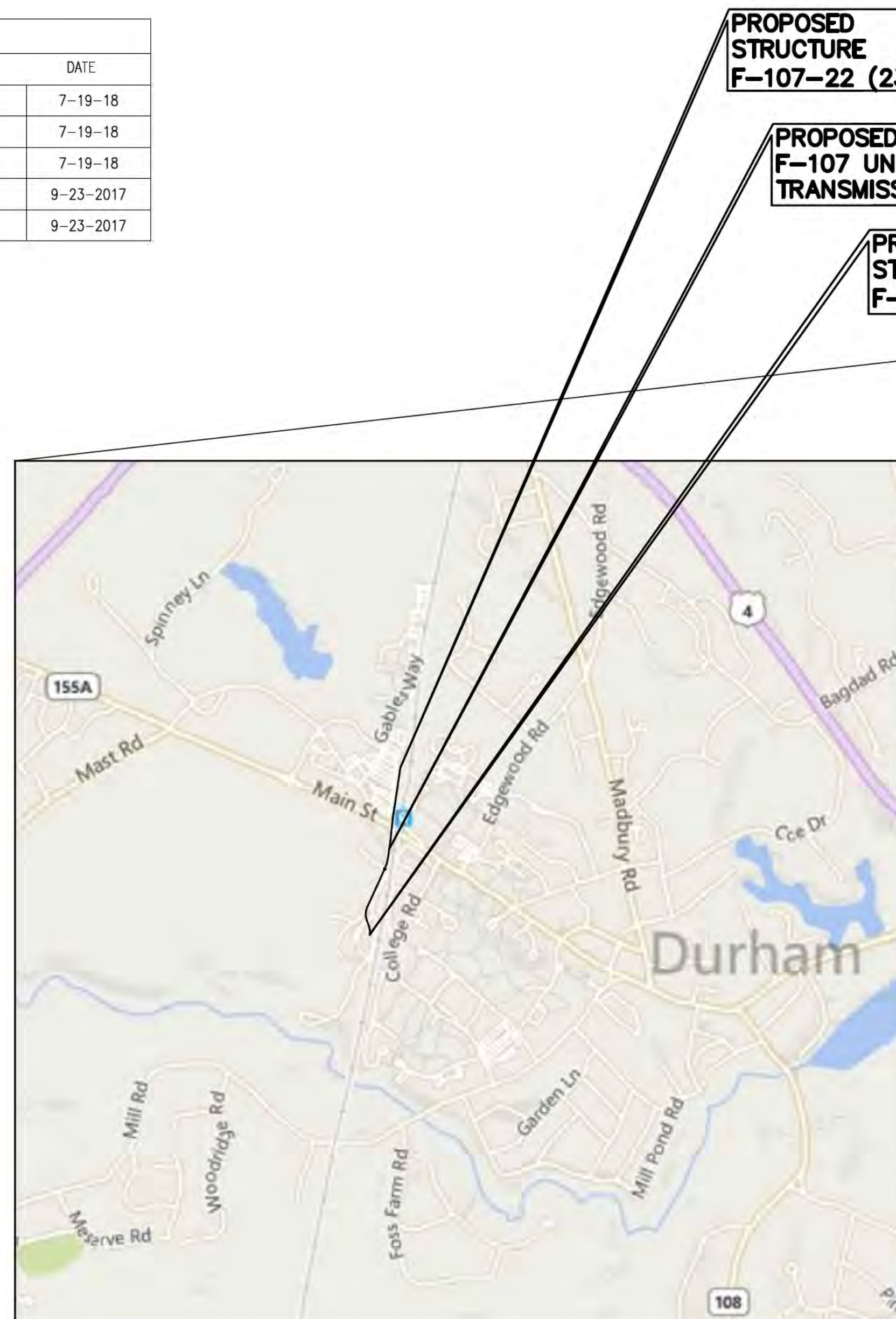


# PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CIRCUIT F-107 UNH, DURHAM 115kV UNDERGROUND TRANSMISSION LINE

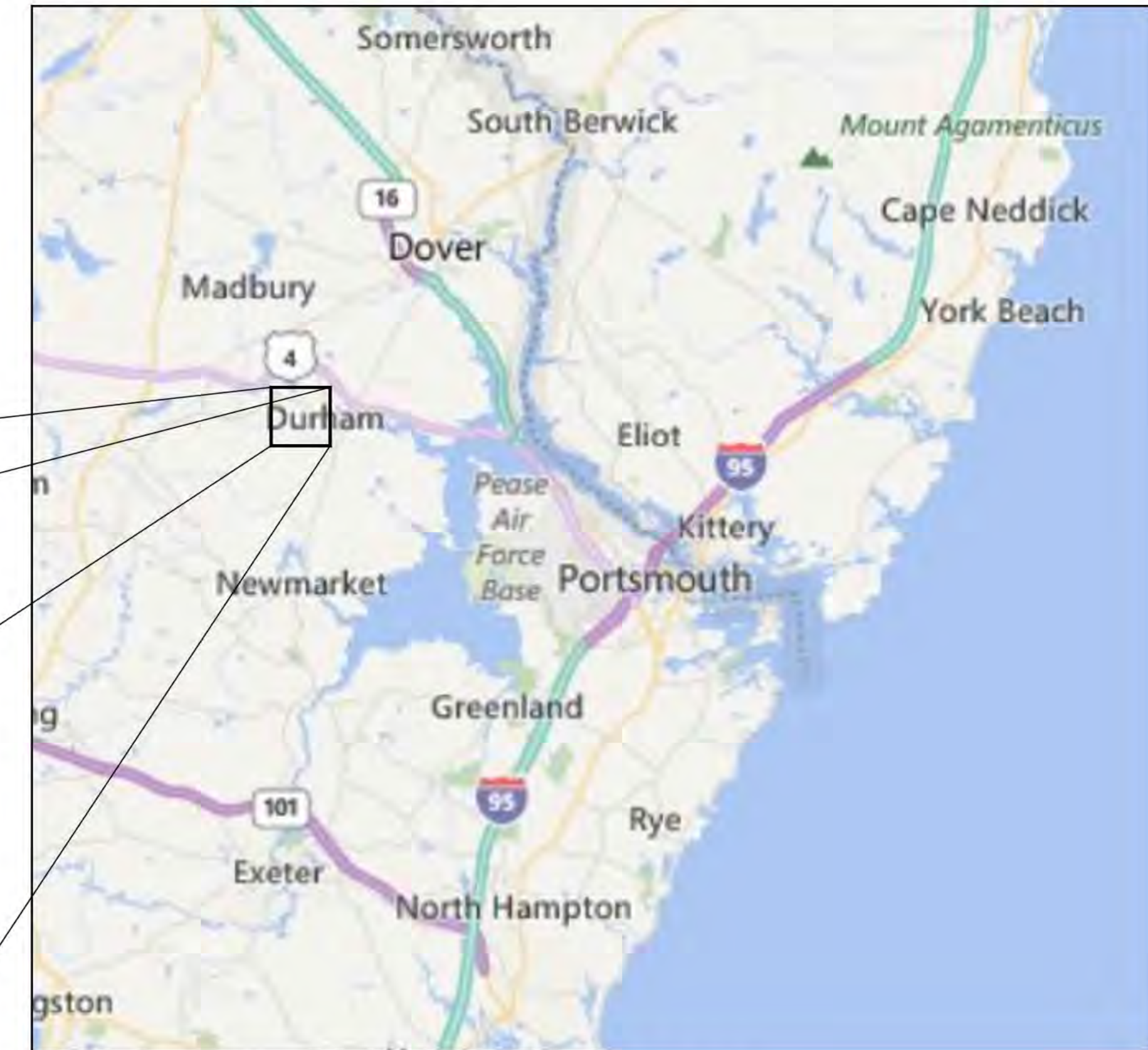
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
SHEET 1 OF 5	COVER SHEET, LEGEND, AND DRAWING MANIFEST	T	7-19-18
SHEET 2 OF 5	PLAN AND PROFILE DRAWING STA. 73+00 TO STA. 84+00	T	7-19-18
SHEET 3 OF 5	PLAN AND PROFILE DRAWING STA. 84+00 TO STA. 95+00	T	7-19-18
SHEET 4 OF 5	RISER SWEEP AND PIPE JACKING DETAILS	S	9-23-2017
SHEET 5 OF 5	MISCELLANEOUS DETAILS	S	9-23-2017

### 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. RET. WALL
- EP
- CONC.
- TREE LINE
- SHRUB LINE
- PROPERTY LINES
- SD
- OHW
- UGE
- XW
- TELE
- SX
- STM
- PD
- EASMENT
- GAS
- PD
- UD
- PUD



VICINITY MAP  
NOT TO SCALE



AREA MAP  
NOT TO SCALE

#### General Notes

- THE UTILITIES PROVIDED BY THIGHE & BOND FROM RECORD PLANS AND SURVEY RELATED TO THE UNH SOCCER FIELD AND SOUTH STREET PROJECTS AND WILL BE VERIFIED IN THE FIELD. ADDITIONAL EXISTING CONDITIONS PROVIDED BY DOUCET SURVEY INC.
- 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.
- 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.
- CONTRACTOR SHALL INSTALL SILT SACK OR APPROVED EQUAL TO ALL CATCH BASINS OR CURB INLETS WITHIN THE DEFINED WORK ZONE.
- CONTRACTOR SHALL ENSURE PROPER CONTROLS ARE IN PLACE SO WORKERS DO NOT TRACK SEDIMENT PAST THE LIMITS OF WORK.
- ALL VERTICAL RADII ARE 500' UNLESS OTHERWISE NOTED.
- STRUCTURE NUMBERS SHOWN ARE THE FINAL CONSTRUCTION/FIELD NUMBERS. STRUCTURE NUMBERS IN PARENTHESES REFERENCE STRUCTURE NUMBERS USED IN SEC PERMITTING.

NO.	DATE	REVISION	DRWN	CHKD	APPRV.
1	7-19-18	REVISED FOR DESIGN - REMOVE STRUCTURE 22			
2	8-23-17	REVISED FOR DESIGN - UPDATED ALIGNMENT			
3	8-23-17	REVISED FOR DESIGN - REWORK AT PORT SOCCER FIELD			
4	8-16-18	REVISED FOR DESIGN			
5	8-16-18	REVISED FOR DESIGN			
6	8-16-18	REVISED FOR DESIGN			
7	8-16-18	ISSUE FOR BID			



CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE COVER  
SCALE: N.T.S.

DES. REO	CHK. 1518
DURHAM	APR
TRANSMISSION LINE	
LINE	
MILE NO: 2	
DISCIPLINE/SHT NO.	
SHEET 1 OF 5	
F10743102	

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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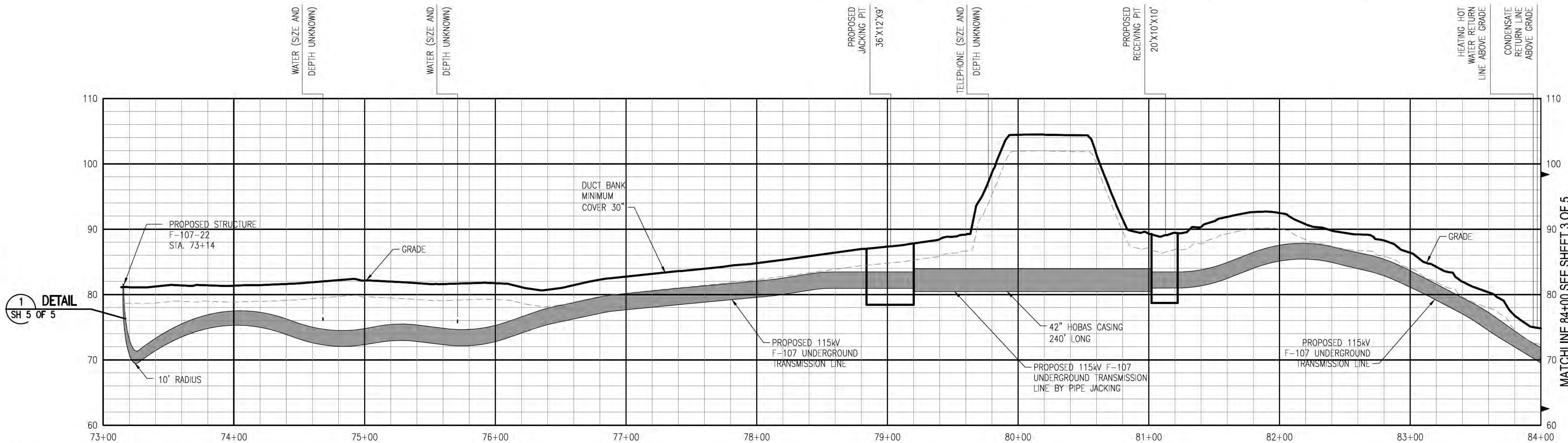
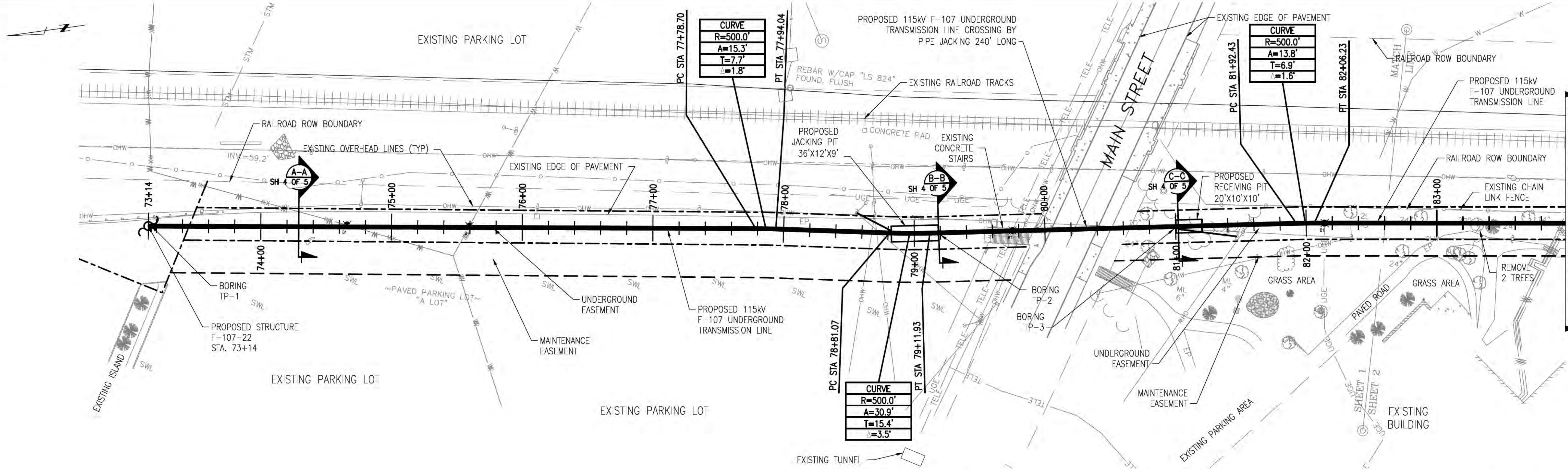
THREE BUSINESS DAYS BEFORE YOU DIG CALL  
NEW HAMPSHIRE DIG SAFE SYSTEM, INC.  
TOLL FREE  
1-888-344-7233

ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION

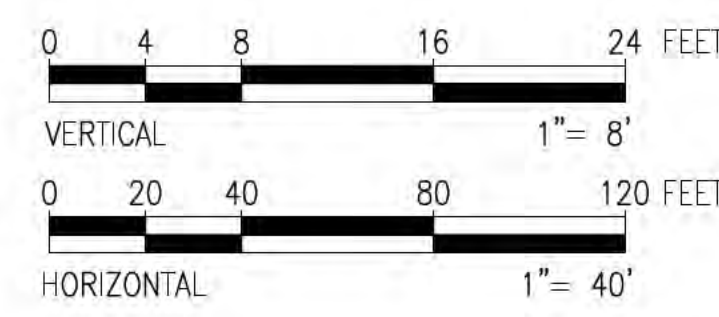




7/20/2018 9:21 AM - roben - E:\Projects\133007\DD\DWG\03\_Line\UN\10743002\_STR\_22\_LOC\_7-19-18.dwg - SH-2



- General Notes**
1. THE UTILITIES PROVIDED BY THIGHE & BOND FROM RECORD PLANS AND SURVEY RELATED TO THE UNH SOCCER FIELD AND SOUTH STREET PROJECTS AND WILL BE VERIFIED IN THE FIELD. ADDITIONAL EXISTING CONDITIONS PROVIDED BY DOUCET SURVEY, INC.
  2. 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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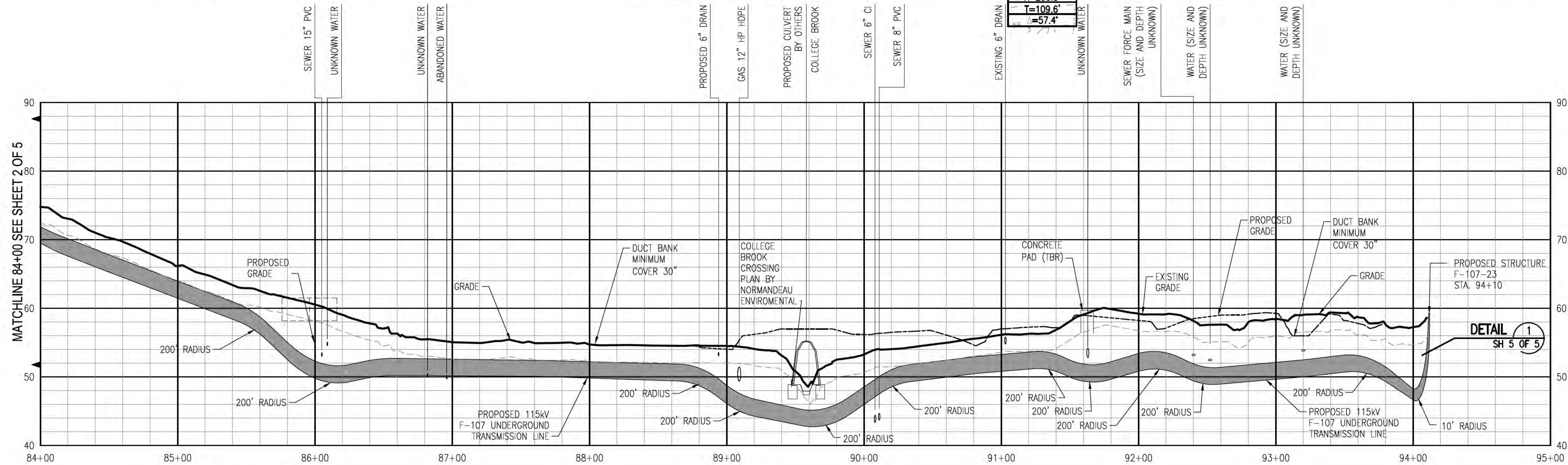
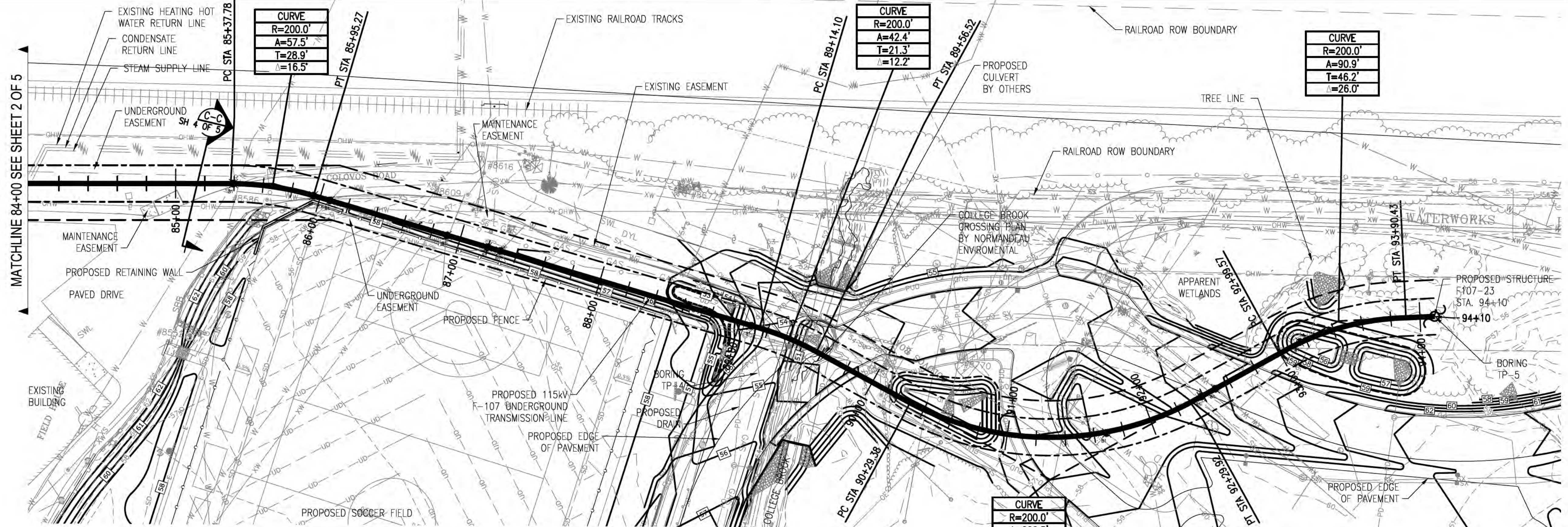


NO.	DATE	REVISION	DRWN	CHKD	APPRD
1	7-19-18	REVISED PER DESIGN - REMOVE STRUCTURE 22			
2	8-23-17	REVISED PER DESIGN - UPDATED ALIGNMENT			
3	8-23-17	REVISED PER DESIGN - REWORK AT PUMP STATION FIELD			
4	8-16-18	REVISED PER DESIGN			
5	8-16-18	REVISED PER DESIGN			
6	8-16-18	REVISED PER DESIGN			
7	8-16-18	REVISED PER DESIGN			
8	8-16-18	REVISED PER DESIGN			
9	8-16-18	REVISED PER DESIGN			
10	8-16-18	REVISED PER DESIGN			

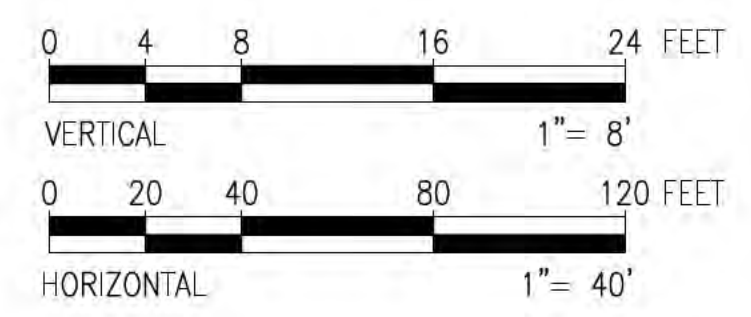
**EVERSOURCE ENERGY**

CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE VIEW  
 DATE: 07/19/2018  
 SCALE: H: 1"=40', V: 1"=8'  
 SHEET 2 OF 5  
 F10743002





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1. THE UTILITIES PROVIDED BY THGHE & BOND FROM RECORD PLANS AND SURVEY RELATED TO THE UNH SOCCER FIELD AND SOUTH STREET PROJECTS AND WILL BE VERIFIED IN THE FIELD. ADDITIONAL EXISTING CONDITIONS PROVIDED BY DOUCET SURVEY INC.
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NO.	DATE	REVISION	BY	CHKD	APPV
1	7-19-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
2	8-23-17	REVISED FOR DESIGN - UPDATED ALIGNMENT	ROBEN	ROBEN	ROBEN
3	8-23-17	REVISED FOR DESIGN - REWORKED AT PUMP STATION FIELD	ROBEN	ROBEN	ROBEN
4	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
5	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
6	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
7	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
8	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
9	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN
10	8-16-18	REVISED FOR DESIGN	ROBEN	ROBEN	ROBEN

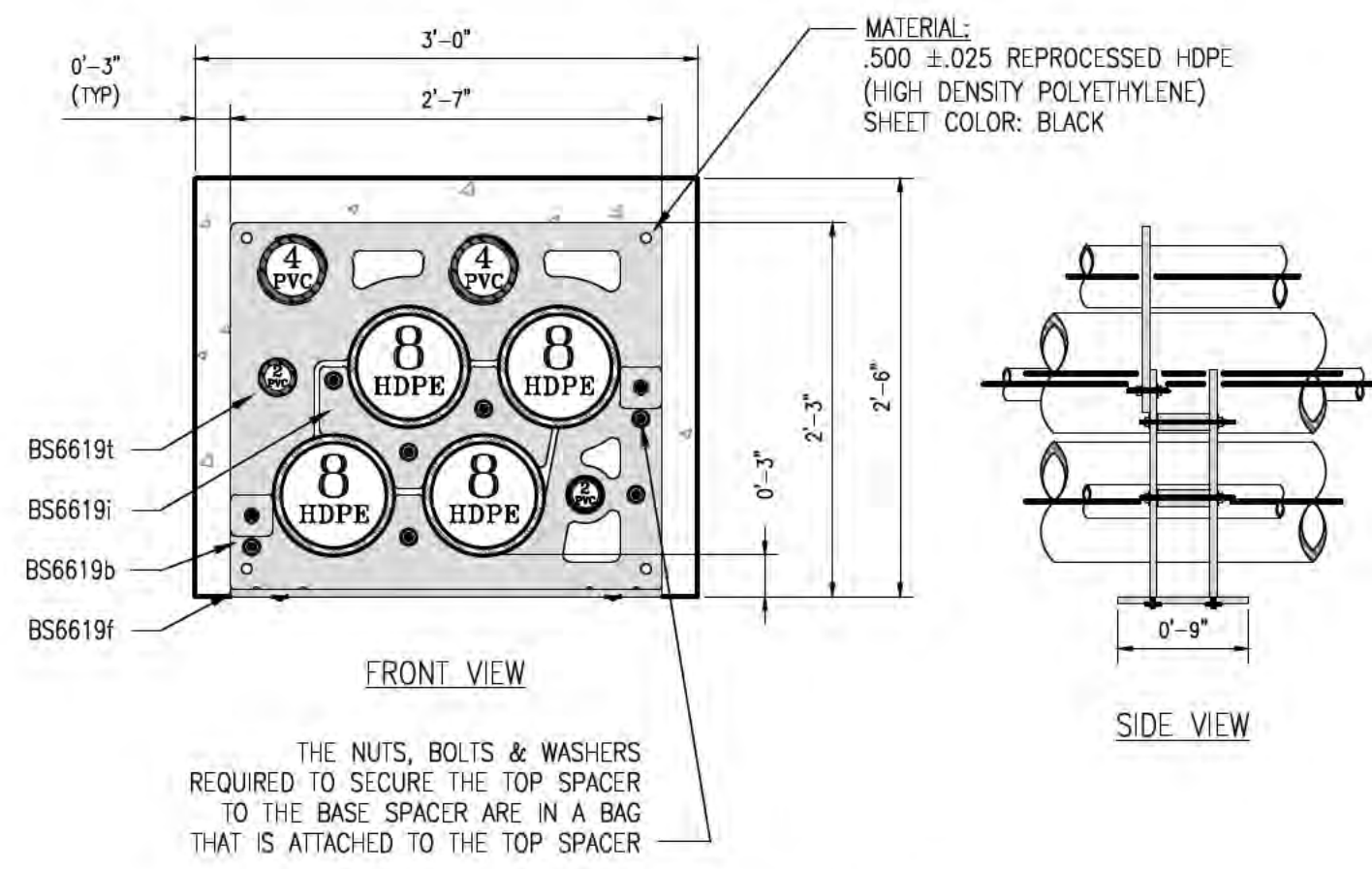
**EVERSOURCE**  
ENERGY

CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW

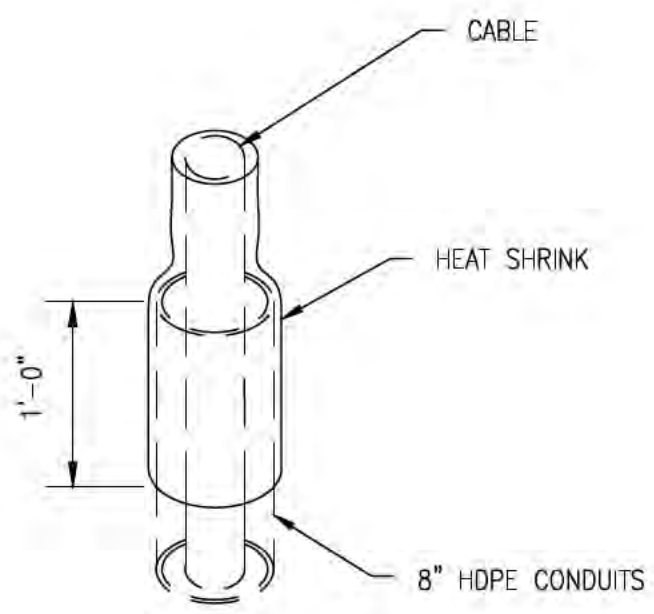
DATE: 07/19/2018  
SCALE: H: 1"=40', V: 1"=8'

DES: REO CHK: LSR  
DRW: REO APR:  
TOWN:  
TRANSMISSION LINE:  
**LINE**  
MILE NO: 2  
DISCIPLINE/SHT NO:  
SHEET 3 OF 5  
F10743002

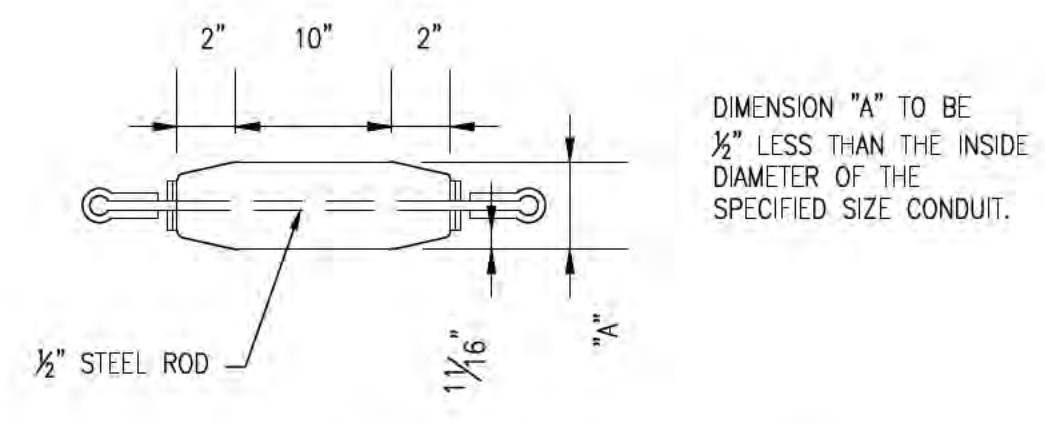




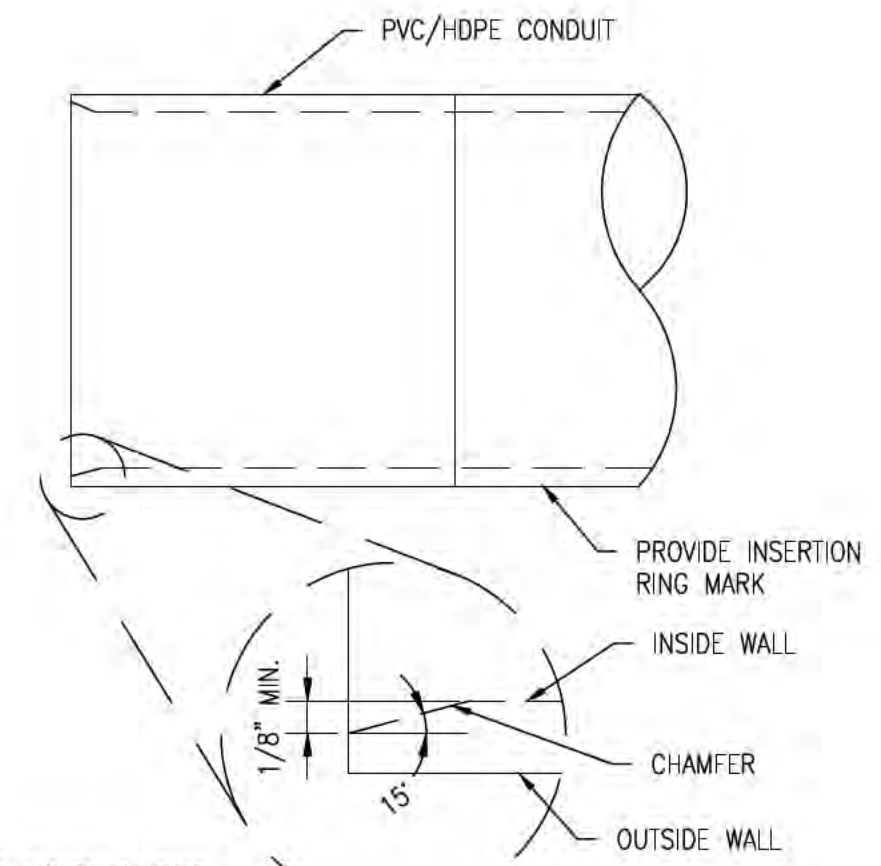
**UNDERGROUND DEVICES SPACER ARRANGEMENT  
DETAIL**  
SCALE: N.T.S. **1**  
SH 4 OF 5



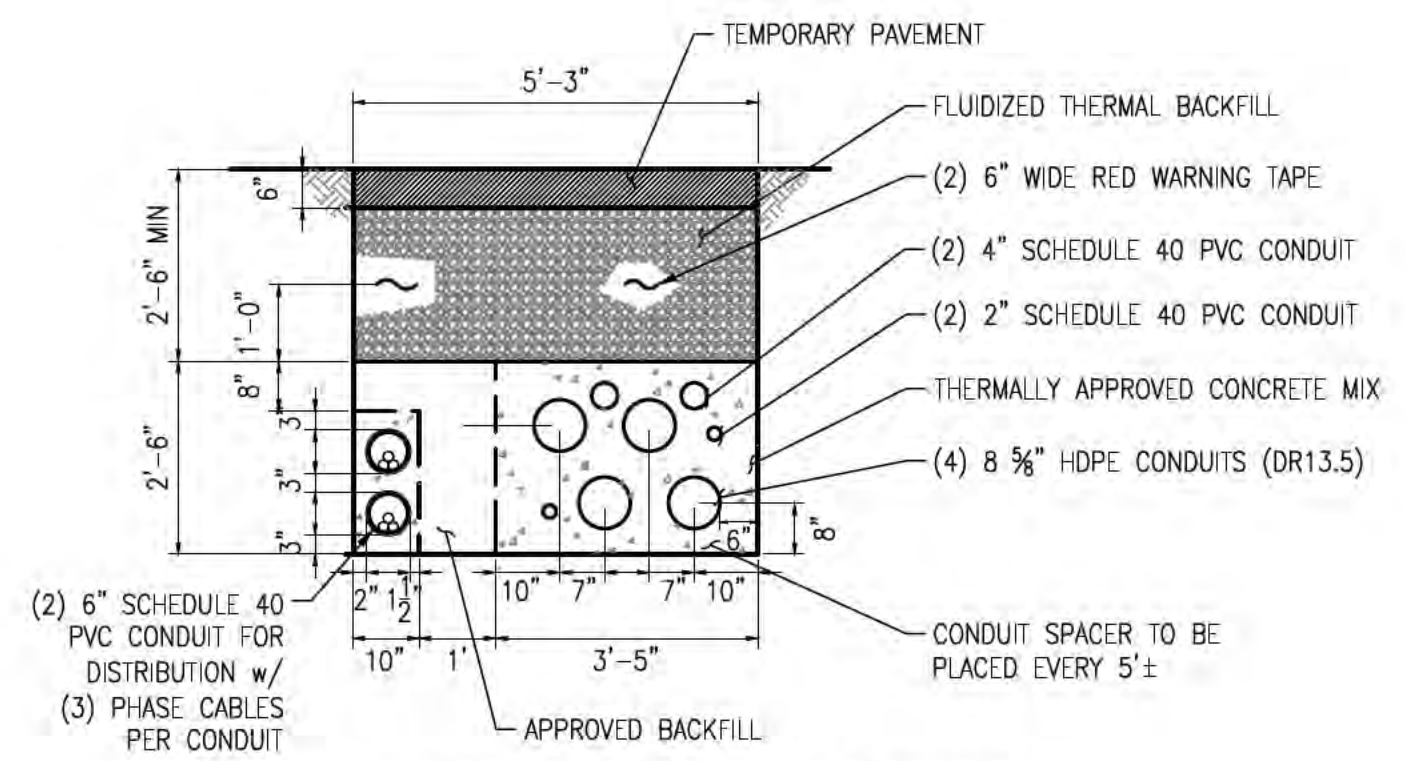
**HEAT SHRINK DETAIL**  
SCALE: N.T.S. **3**  
SH 4 OF 5



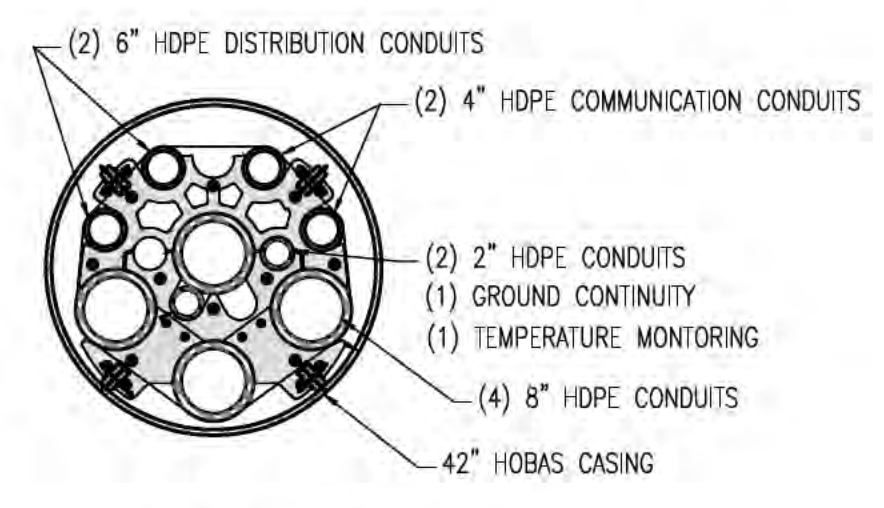
**MANDREL DETAIL**  
SCALE: N.T.S. **2**  
SH 4 OF 5



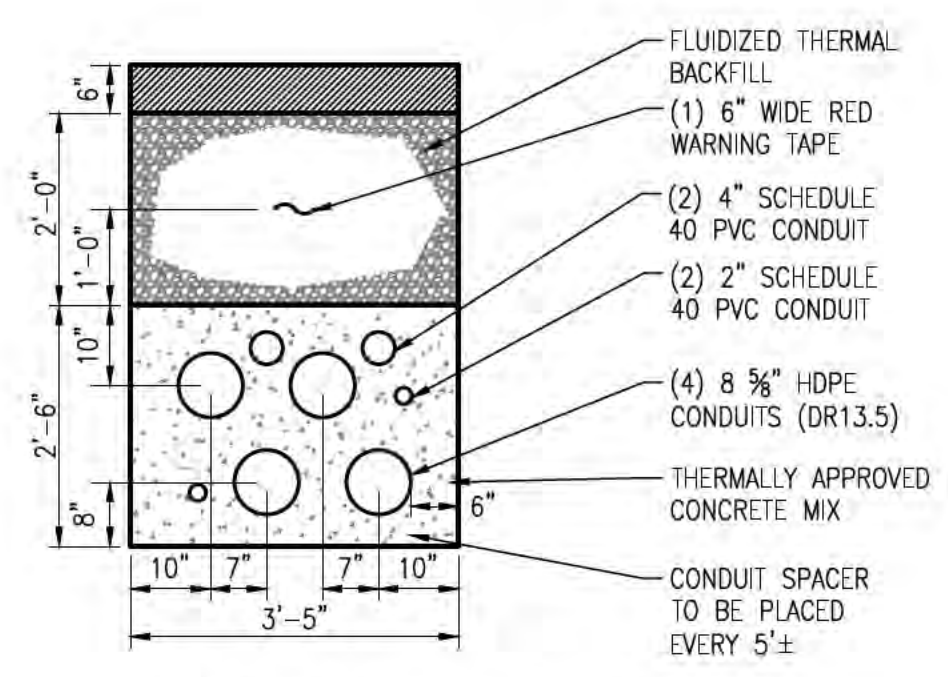
**PVC/HDPE DUCT CHAMFER DETAIL**  
SCALE: N.T.S. **4**  
SH 4 OF 5



**TYPICAL DUCT BANK WITH DISTRIBUTION AT UNH CAMPUS  
SECTION**  
SCALE: N.T.S. **A-A**  
SH 4 OF 5



**TYPICAL CASING SECTION**  
SCALE: N.T.S. **B-B**  
SH 4 OF 5



**TYPICAL DUCT BANK AT UNH CAMPUS  
SECTION**  
SCALE: N.T.S. **C-C**  
SH 4 OF 5

NO.	DATE	REVISION	DRWN	CHKD	APPV
1	8-23-17	REVISED FOR DESIGN - UPDATED ALIGNMENT	REO	SSG	TSO
2	3-15-17	REVISED FOR DESIGN - REWORK AT PROPOSED SUCCEED FIELD	REO	SSG	TSO
3	2-22-16	REVISED FOR DESIGN	REO	SSG	TSO
4	8-16-16	REVISED FOR DESIGN	REO	SSG	TSO
5	8-24-16	ISSUE FOR BID	REO	SSG	TSO
6	8-24-16	ISSUE FOR REVIEW	REO	SSG	TSO

**EVERSOURCE ENERGY**

CIRCUIT: F107 115KV UNDERGROUND UNDERGROUND TRANSMISSION LINE  
MISCELLANEOUS DETAILS  
DATE: 07/19/2015  
SCALE: N.T.S.

**ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION**







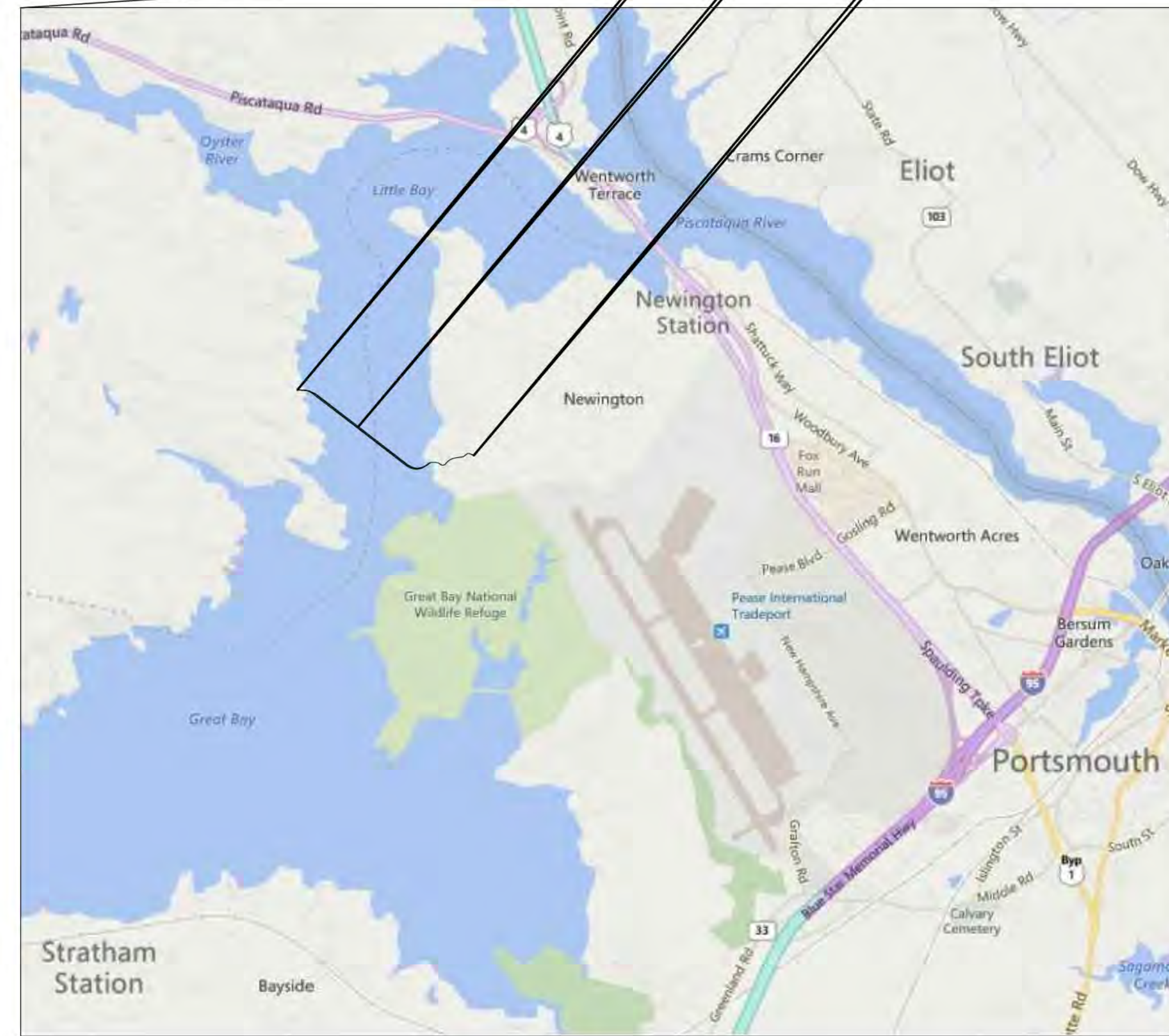


# PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CIRCUIT F-107 LITTLE BAY, NEWINGTON 115kV UNDERGROUND TRANSMISSION LINE

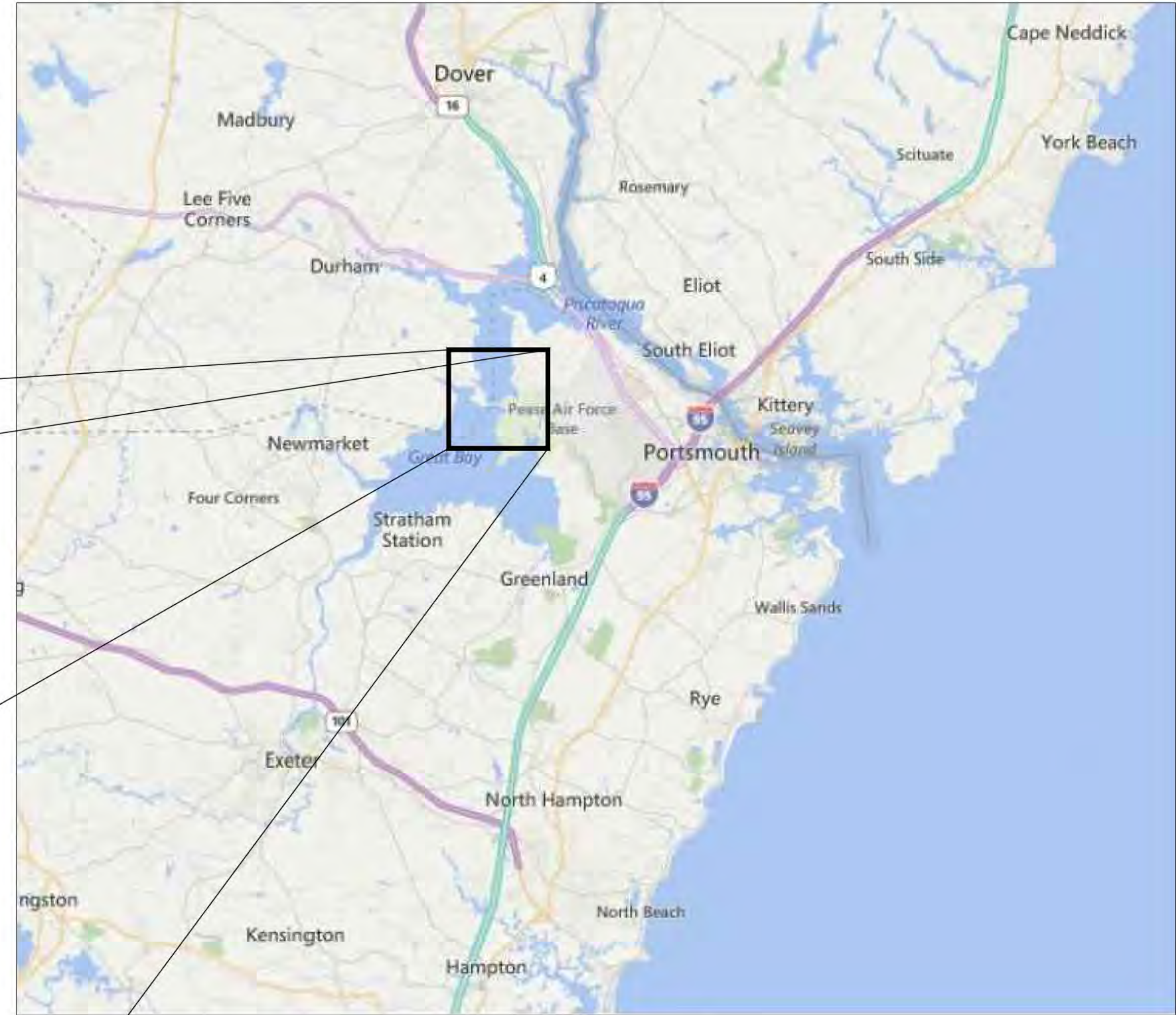
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
SHEET 1 OF 13	COVER SHEET, LEGEND, AND DRAWING MANIFEST	13	7-18-18
SHEET 2 OF 13	PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00	13	7-18-18
SHEET 3 OF 13	PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00	13	7-18-18
SHEET 4 OF 13	PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00	13	7-18-18
SHEET 5 OF 13	PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00	13	7-18-18
SHEET 6 OF 13	PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00	13	7-18-18
SHEET 7 OF 13	PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00	13	7-18-18
SHEET 8 OF 13	PLAN AND PROFILE DRAWING STA. 453+00 TO STA. 463+00	13	7-18-18
SHEET 9 OF 13	PLAN AND PROFILE DRAWING STA. 463+00 TO STA. 470+00	13	7-18-18
SHEET 10 OF 13	TRENCH AND JET PLOW DETAILS	12	8-2-2017
SHEET 11 OF 13	SPLICE VAULT DETAILS	12	8-2-2017
SHEET 12 OF 13	SPLICE VAULT DETAILS	12	8-2-2017
SHEET 13 OF 13	SPLICE VAULT MISCELLANEOUS DETAILS	12	8-2-2017

**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.
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12. SEE NORMANDEAU ENVIRONMENTAL MAPS FOR ENVIRONMENTAL IMPACTS AND ACCESS ROURES.
13. SEE CABLE REMOVAL PLAN PREPARED BY NORMANDEAU ASSOCIATES FOR REMOVAL LOCATIONS OF EXISTING CABLES.

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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NO.	ISSUED FOR SEC.	REVISED STRUCTURE	DATE	DRWN.	CHKD.	APPRV.
13	ISSUED FOR SEC.	REVISED BURIAL DEPTH	7/18/18			
12	ISSUED FOR SEC.	REVISED BURIAL DEPTH	8/2/17			
11	REVISED FOR DESIGN		8/20/17			
9	ISSUE FOR BD		8/15/18			
8	ISSUE FOR BD		5/9/18			

**EVERSOURCE**  
ENERGY

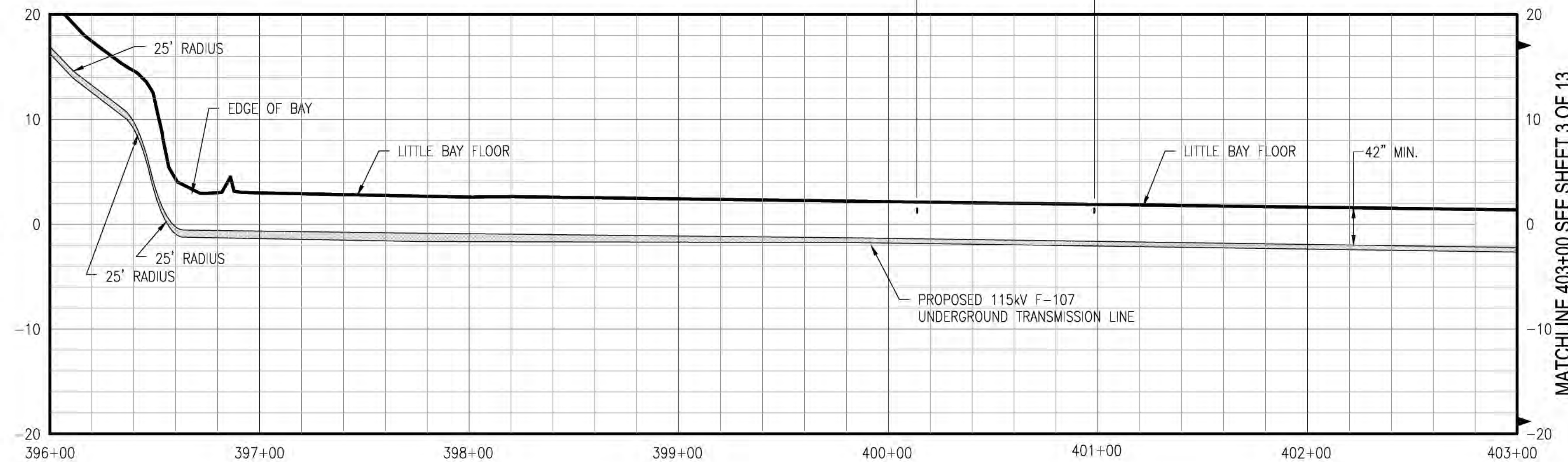
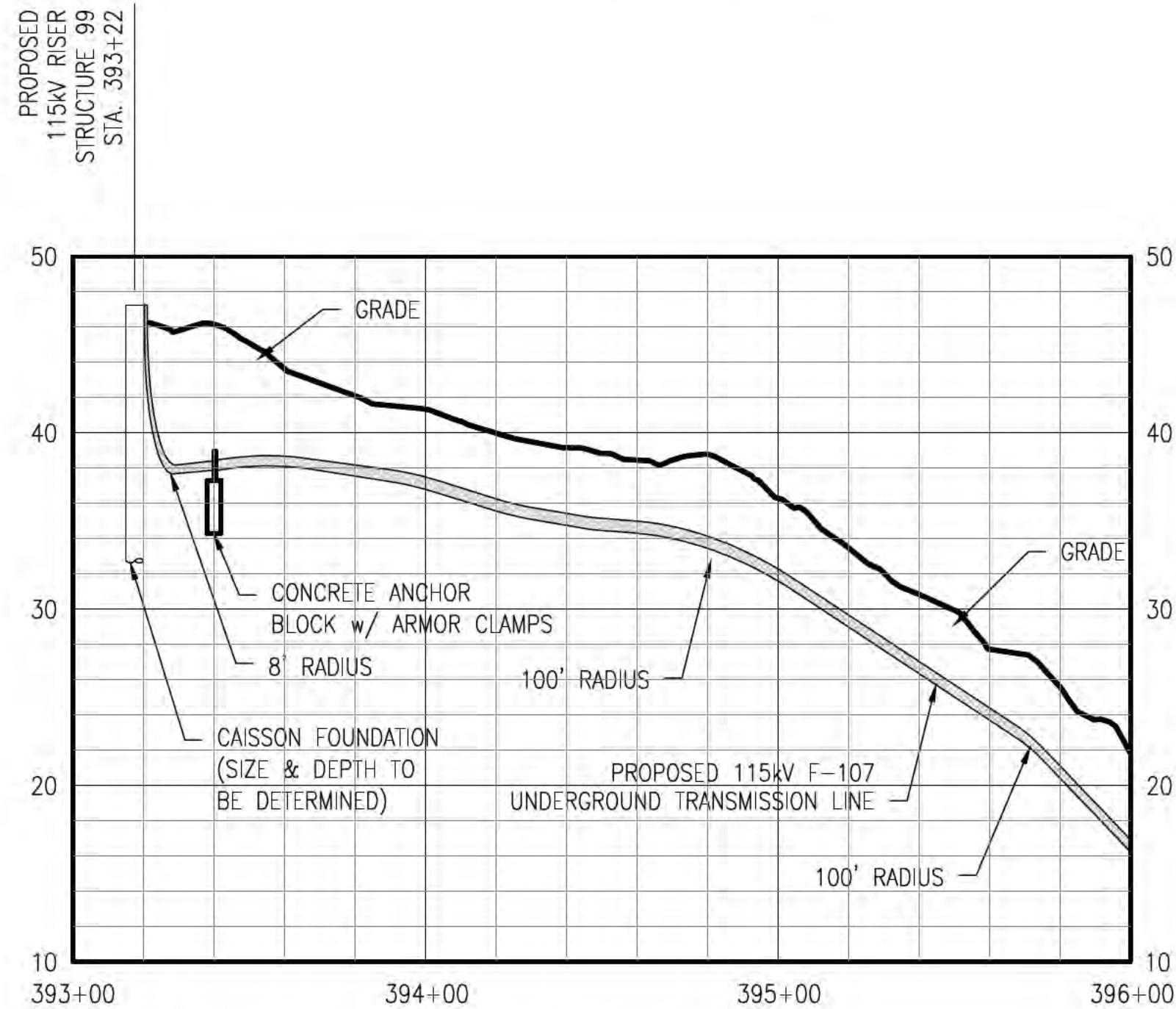
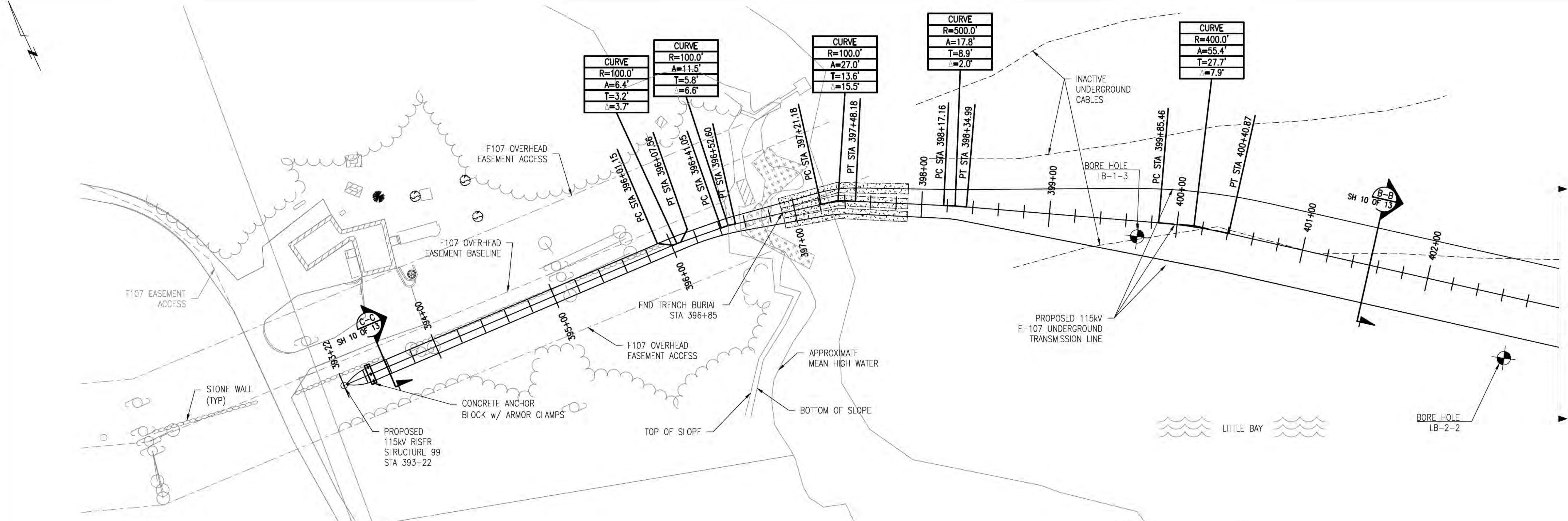
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CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
COVER SHEET

DES.	REV.	CHKD.	DATE

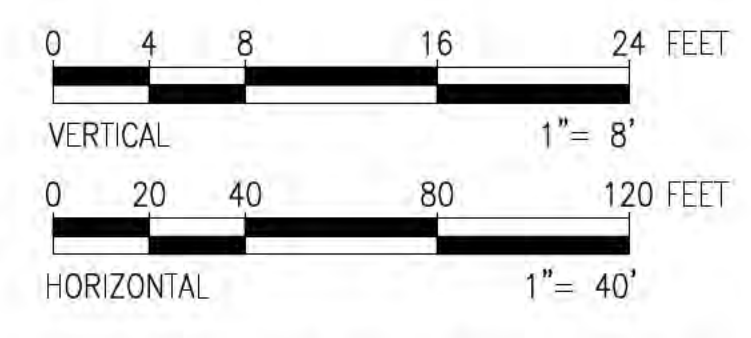
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 1 OF 13  
F10743103





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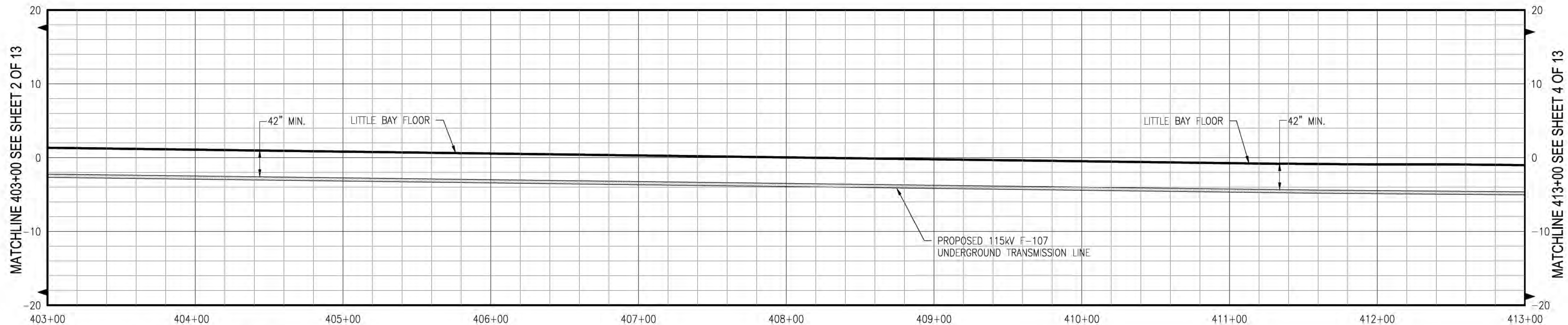
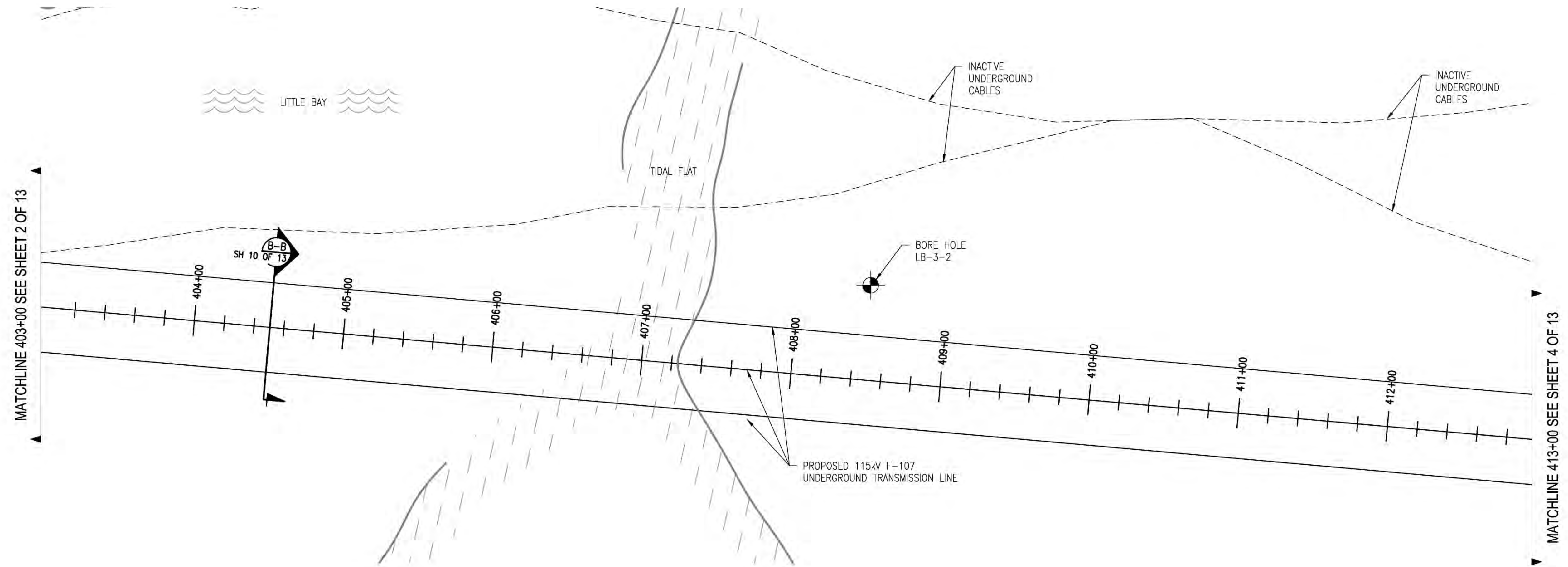
MATCHLINE 403+00 SEE SHEET 3 OF 13

NO.	REVISION	DATE	BY	CHKD	APPRV.
13	ISSUED FOR SEC. REVISED STRUCTURE	7/19/18	REO	SCG	TSIG
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	TSIG
11	REVISED FOR DESIGN	7/27/17	REO	SCG	TSIG
10	ISSUED FOR BID	8/15/16	REO	SCG	TSIG
9	ISSUED FOR BID	5/9/16	REO	SCG	TSIG
8	ISSUED FOR BID	5/9/16	REO	SCG	TSIG

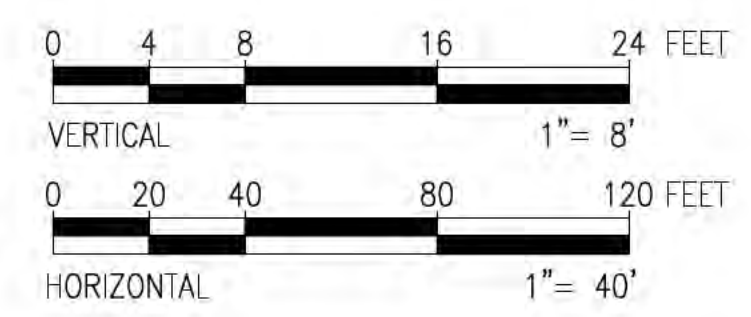
**EVERSOURCE**  
ENERGY

T 13  
CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H. 1"=40'. V. 1"=8'  
DATE: 08/25/2018  
DES. REO CHKD. TSIG  
DRAW. REO APR.  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO. 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 2 OF 13  
F10743003





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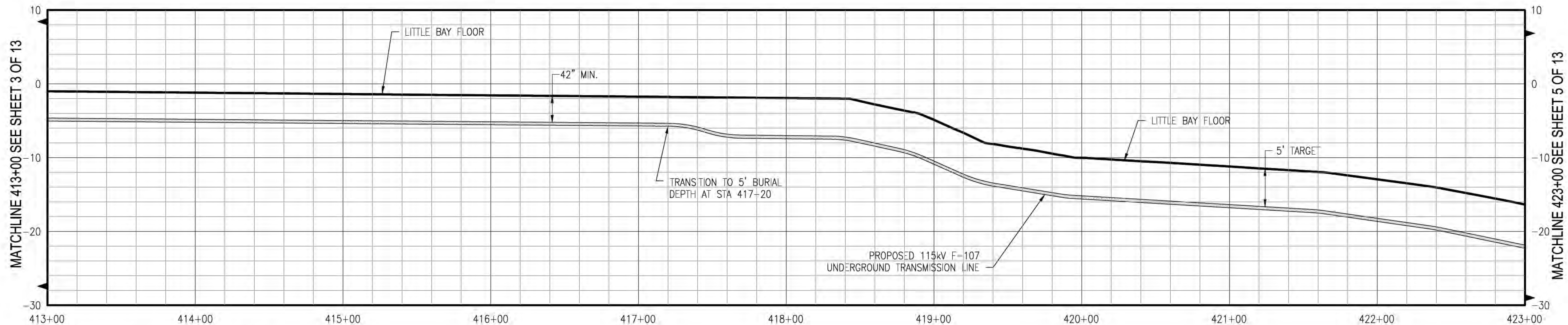
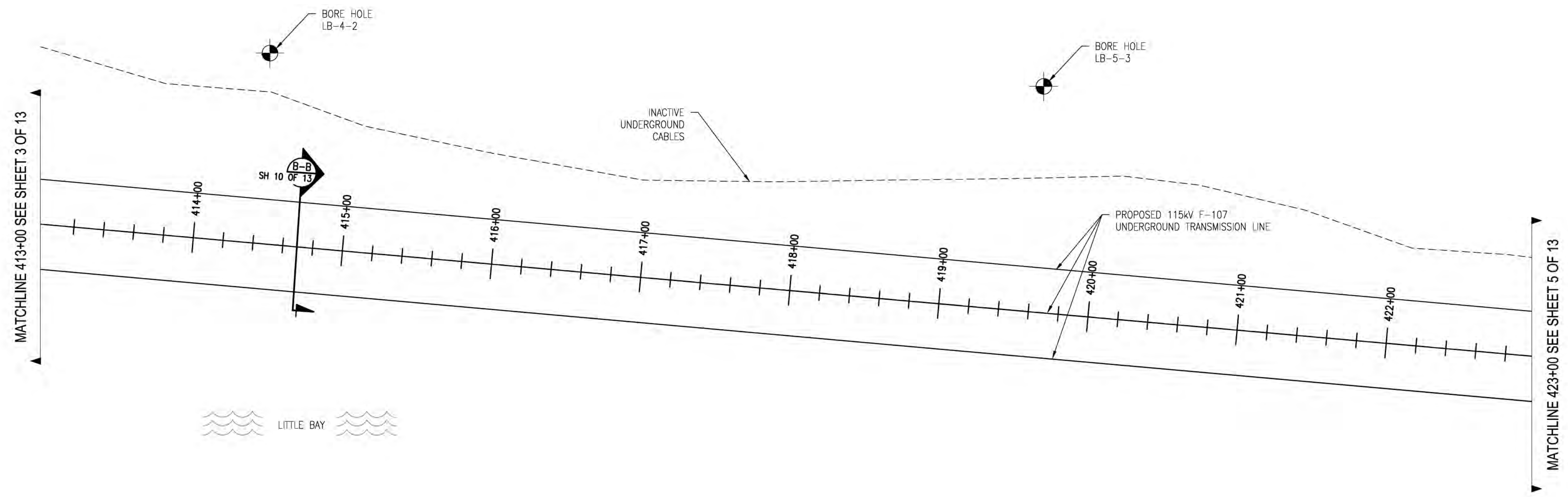


NO.	REVISION	DATE	BY	CHKD	APPRV.
13	ISSUED FOR SEC. REVISED STRUCTURE	10/17/18	REO	SCG	TSB
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/27/17	REO	SCG	TSB
11	REVISED FOR DESIGN	7/20/17	REO	SCG	TSB
10	ISSUED FOR BD	8/15/18	REO	SCG	TSB
9	ISSUED FOR BD	8/15/18	REO	SCG	TSB
8	ISSUED FOR BD	5/9/18	REO	SCG	TSB

**EVERSOURCE**  
ENERGY

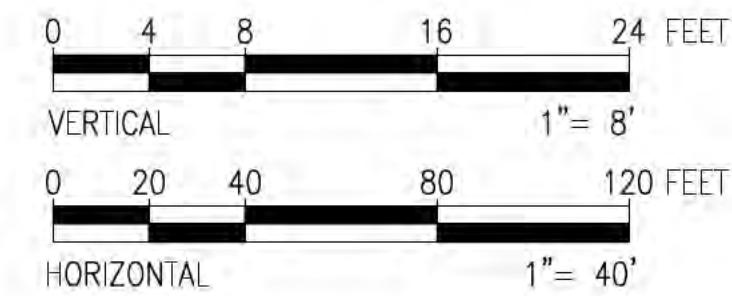
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CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
DATE: 09/25/2015  
SCALE: H: 1"=40', V: 1"=8'  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 3 OF 13  
F10743003





**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 EXISTENCE 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.
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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.
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NO.	ISSUED FOR SEC.	REVISED STRUCTURE TO	DATE	BY	CHKD	APPRV.
13	ISSUED FOR SEC.	REVISED BURIAL DEPTH	7/7/18	REO	SCG	TSB
12	ISSUED FOR SEC.	REVISED BURIAL DEPTH	8/2/17	REO	SCG	TSB
11	REVISED FOR DESIGN		7/20/17	REO	SCG	TSB
10	ISSUED FOR BD		8/15/18	REO	SCG	TSB
9	ISSUED FOR BD		8/15/18	REO	SCG	TSB
8	ISSUED FOR BD		5/9/18	REO	SCG	TSB

**EVERSOURCE**  
ENERGY

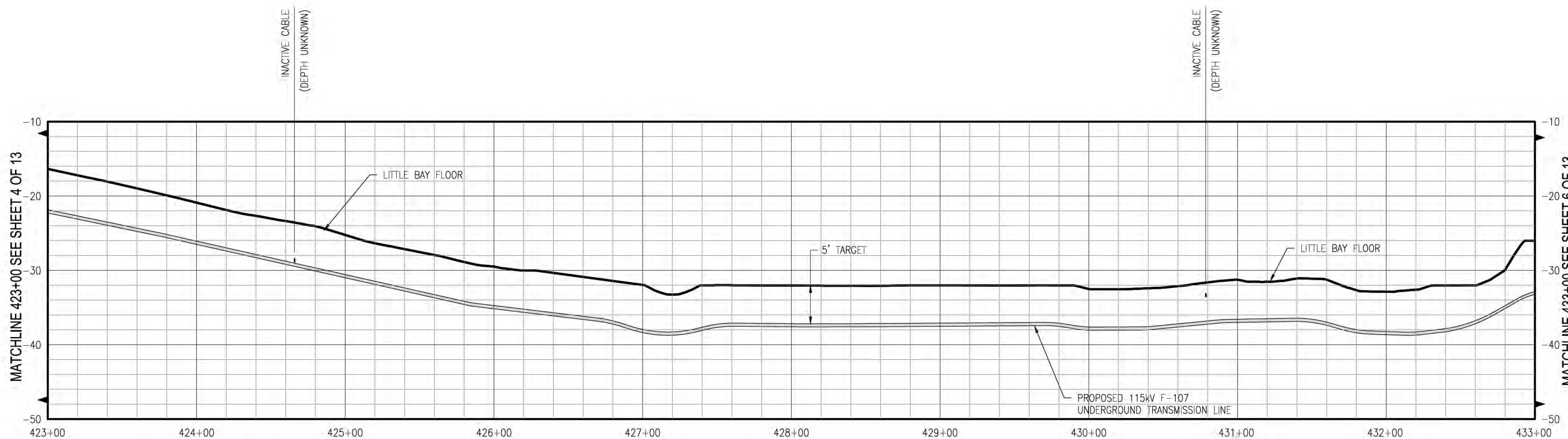
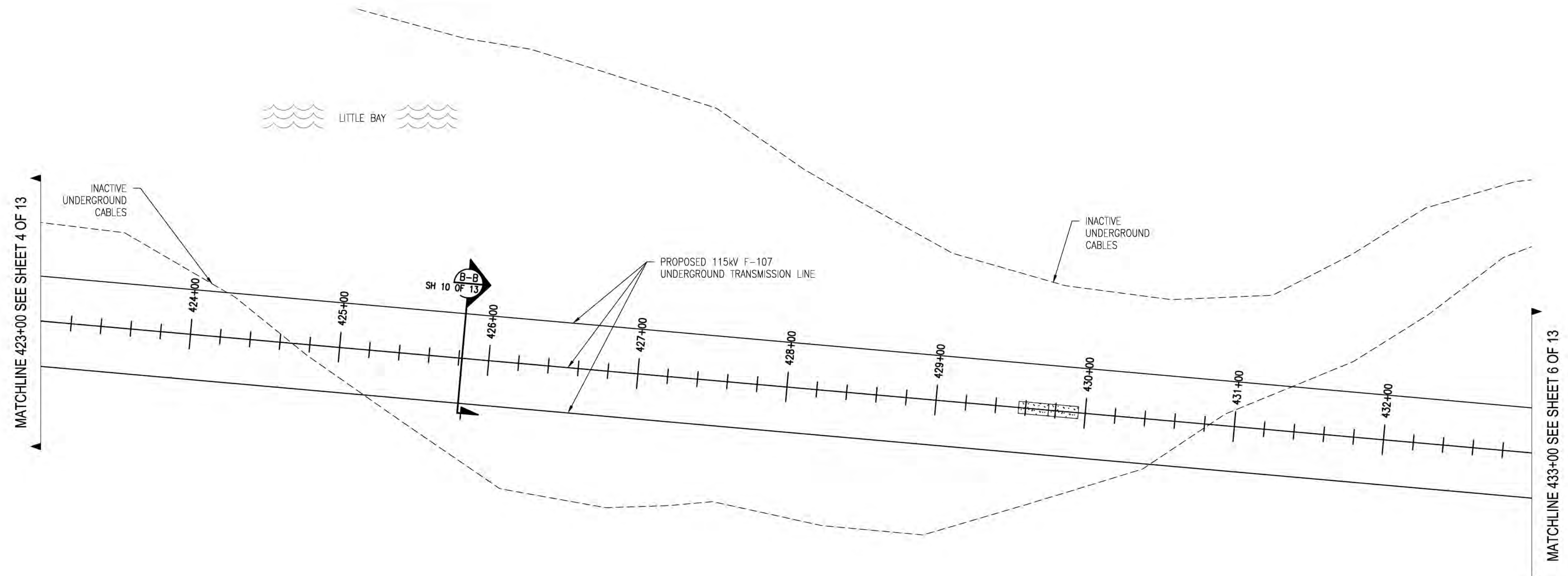
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CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H: 1"=40', V: 1"=8'

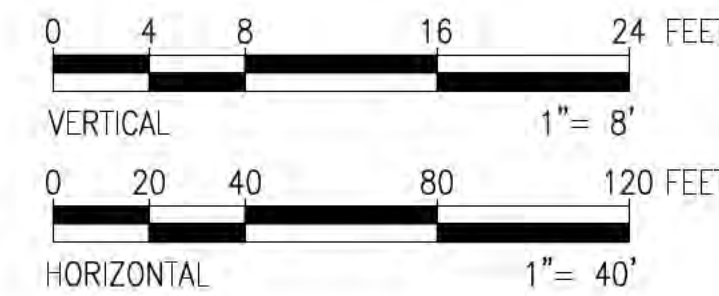
DATE: 09/25/2015

DES. REQ. CHKD: TSB  
DRAW. REQ. APR: [ ]  
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 4 OF 13  
F10743003





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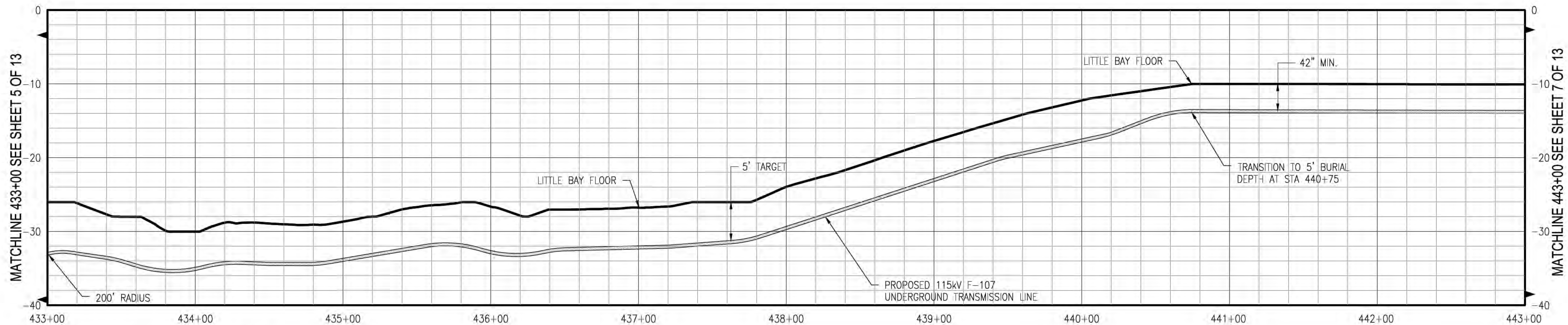
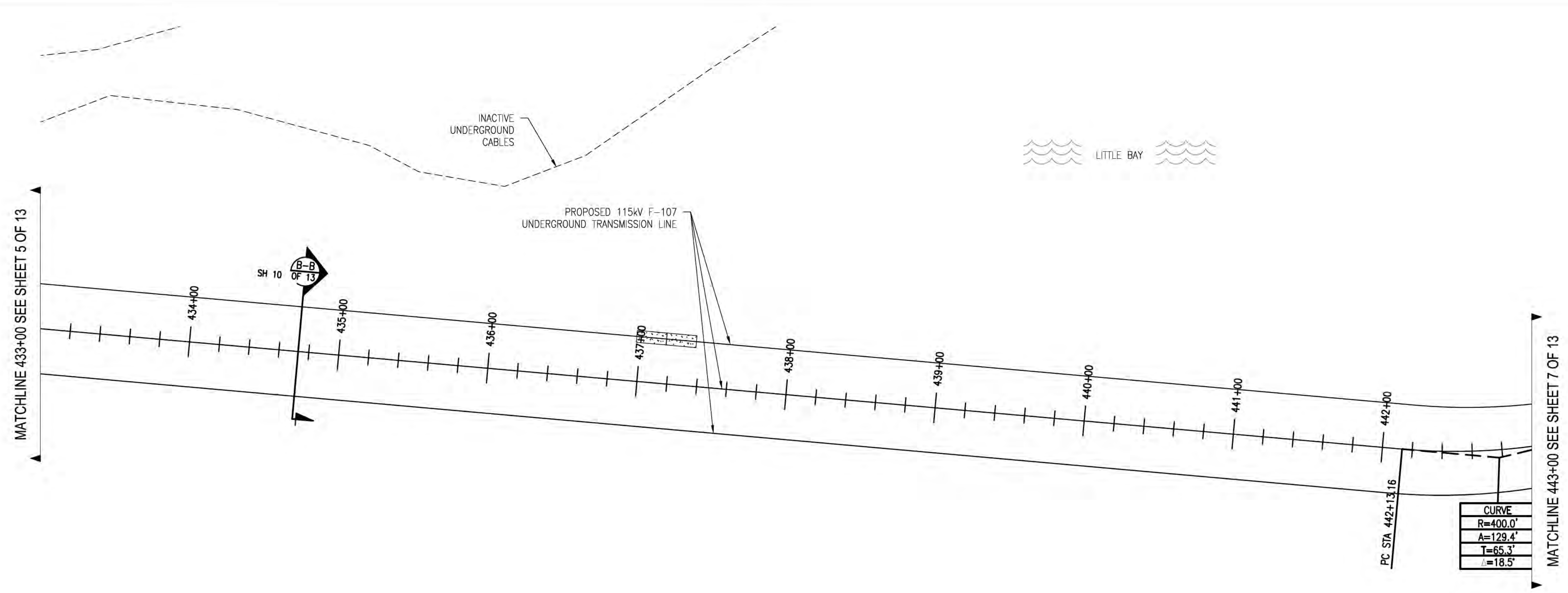


NO.	ISSUED FOR	SEC.	REVISED STRUCTURE	DATE	DRWN	CHKD	APPRV.
13	ISSUED FOR SEC.	REVISED BURIAL DEPTH	100	7/7/18	REO	SCG	TSB
12	ISSUED FOR SEC.	REVISED BURIAL DEPTH	100	8/27/17	REO	SCG	TSB
11	REVISED FOR DESIGN			8/29/17	REO	SCG	TSB
10	REVISED FOR DESIGN			8/15/18	REO	SCG	TSB
9	ISSUE FOR BD			8/15/18	REO	SCG	TSB
8	ISSUE FOR BD			5/9/18	REO	SCG	TSB

**EVERSOURCE**  
ENERGY

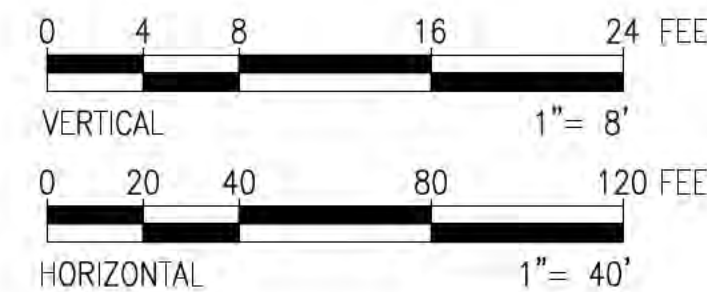
T	13
CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW	
DATE: 08/25/2015	
SCALE: H: 1"=40', V: 1"=8'	
DES. REO	CHKD: TSB
DRW. REO	APR: TSB
TOWN: NEWINGTON	
TRANSMISSION LINE: LINE	
MILE NO:	8 & 9
DISCIPLINE/SHT NO.	
SHEET 5 OF 13	
F10743003	





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NO.	REVISION	DATE	DRWN	CHKD	APPRV.
13	ISSUED FOR SEC. REVISED STRUCTURE	11/19/18	REO	SCG	TSB
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/27/17	REO	SCG	TSB
11	REVISED FOR DESIGN	07/27/17	REO	SCG	TSB
10	ISSUE FOR BD	07/15/18	REO	SCG	TSB
9	ISSUE FOR BD	07/15/18	REO	SCG	TSB
8	ISSUE FOR BD	5/9/18	REO	SCG	TSB

**EVERSOURCE**  
ENERGY

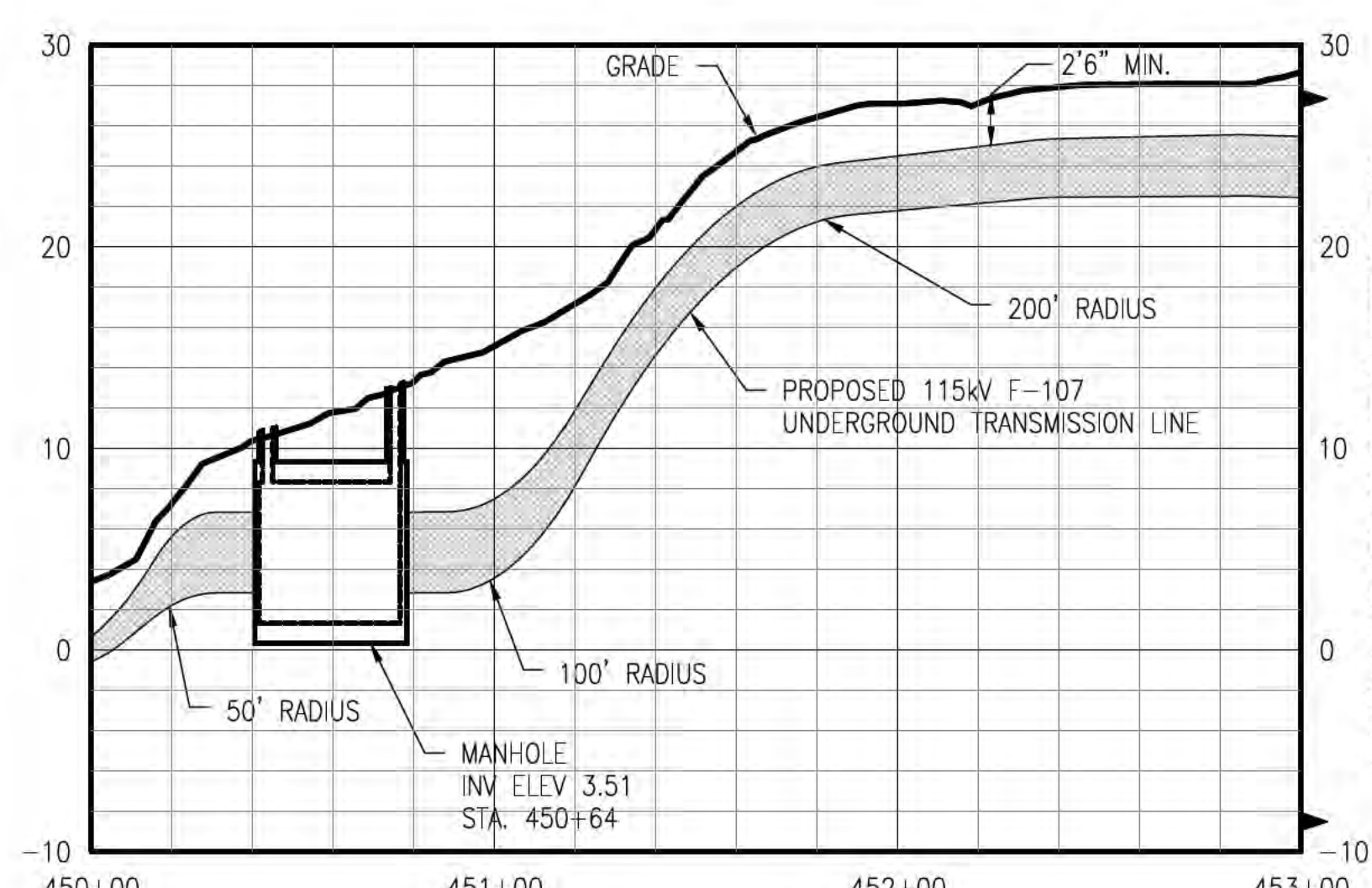
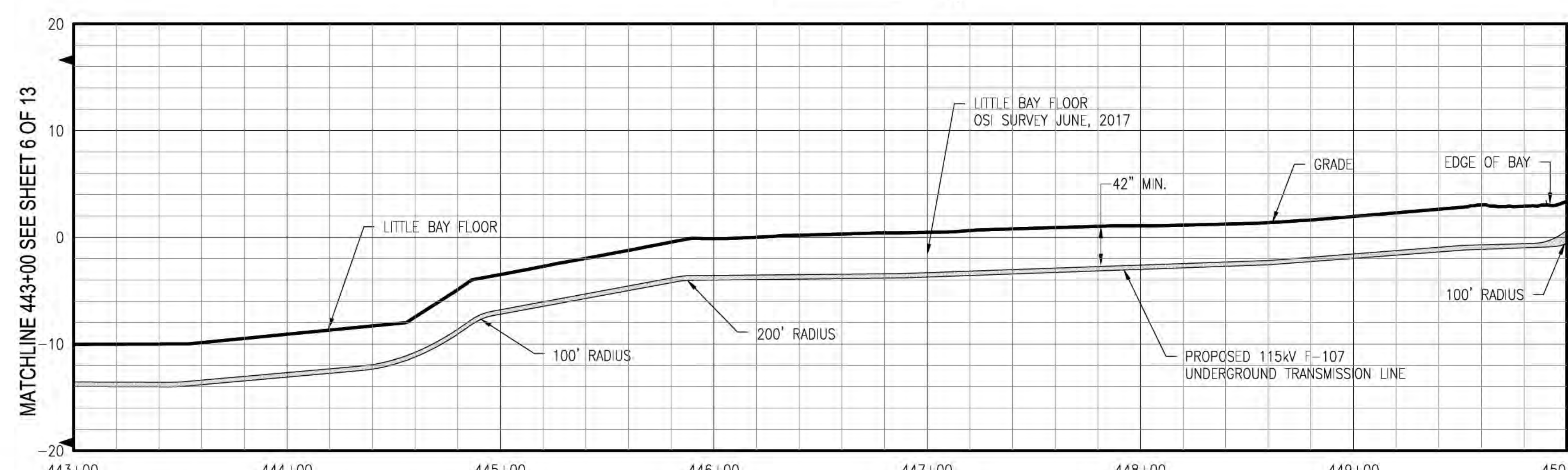
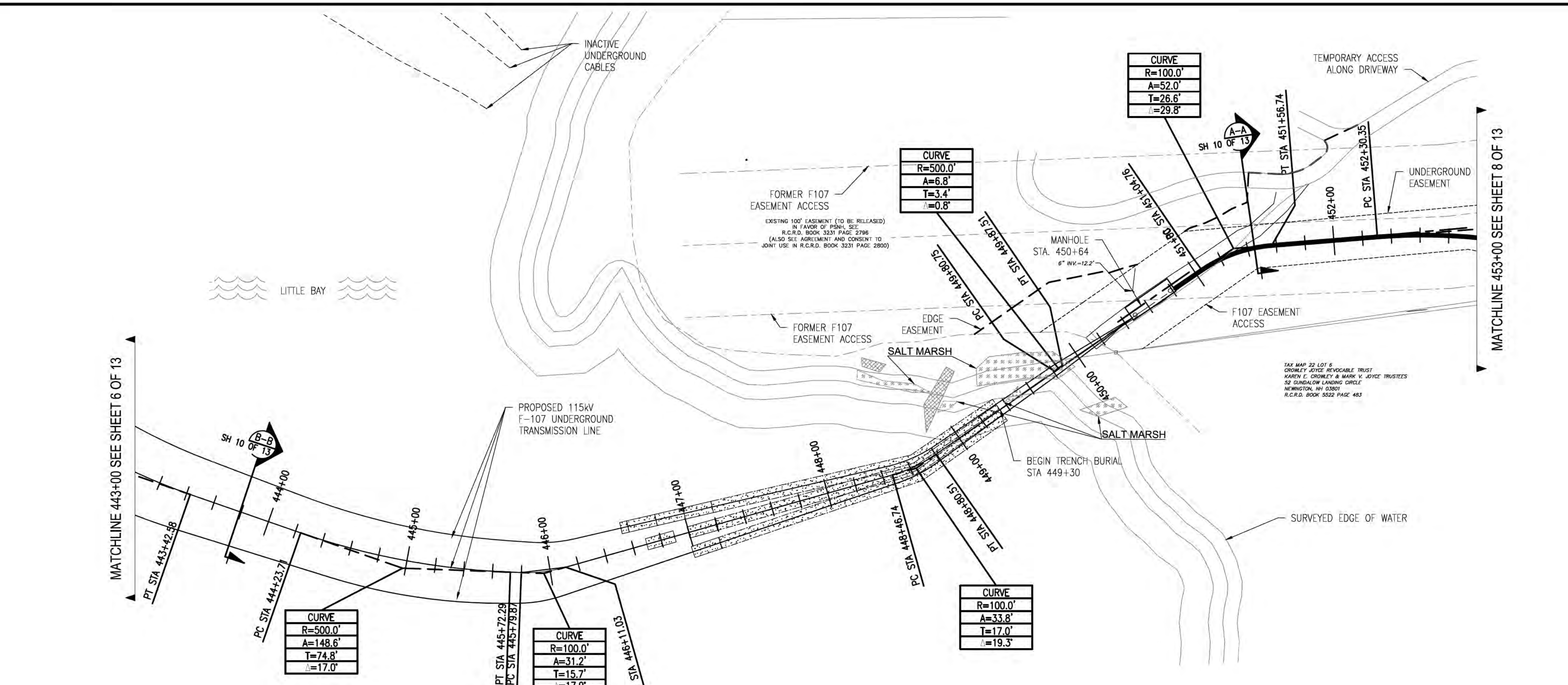
T 13

CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW

DATE: 09/25/2015  
SCALE: H: 1"=40', V: 1"=8'

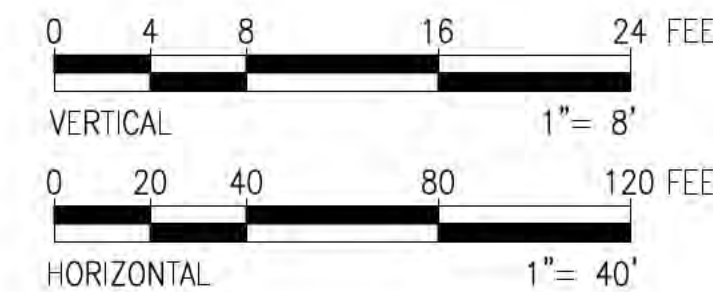
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DRW. REQ. APR.  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 6 OF 13  
F10743003





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13	ISSUED FOR SEC. REVISED STRUCTURE 100	7/19/18	REO	SCG	TSBG
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	TSBG
11	REVISED 10% DESIGN	1/20/17	REO	SCG	TSBG
10	ISSUED FOR BID	8/15/16	REO	SCG	TSBG
9	ISSUED FOR BID	5/9/16	REO	SCG	TSBG
8	ISSUED FOR BID	5/9/16	REO	SCG	TSBG

**EVERSOURCE**  
ENERGY

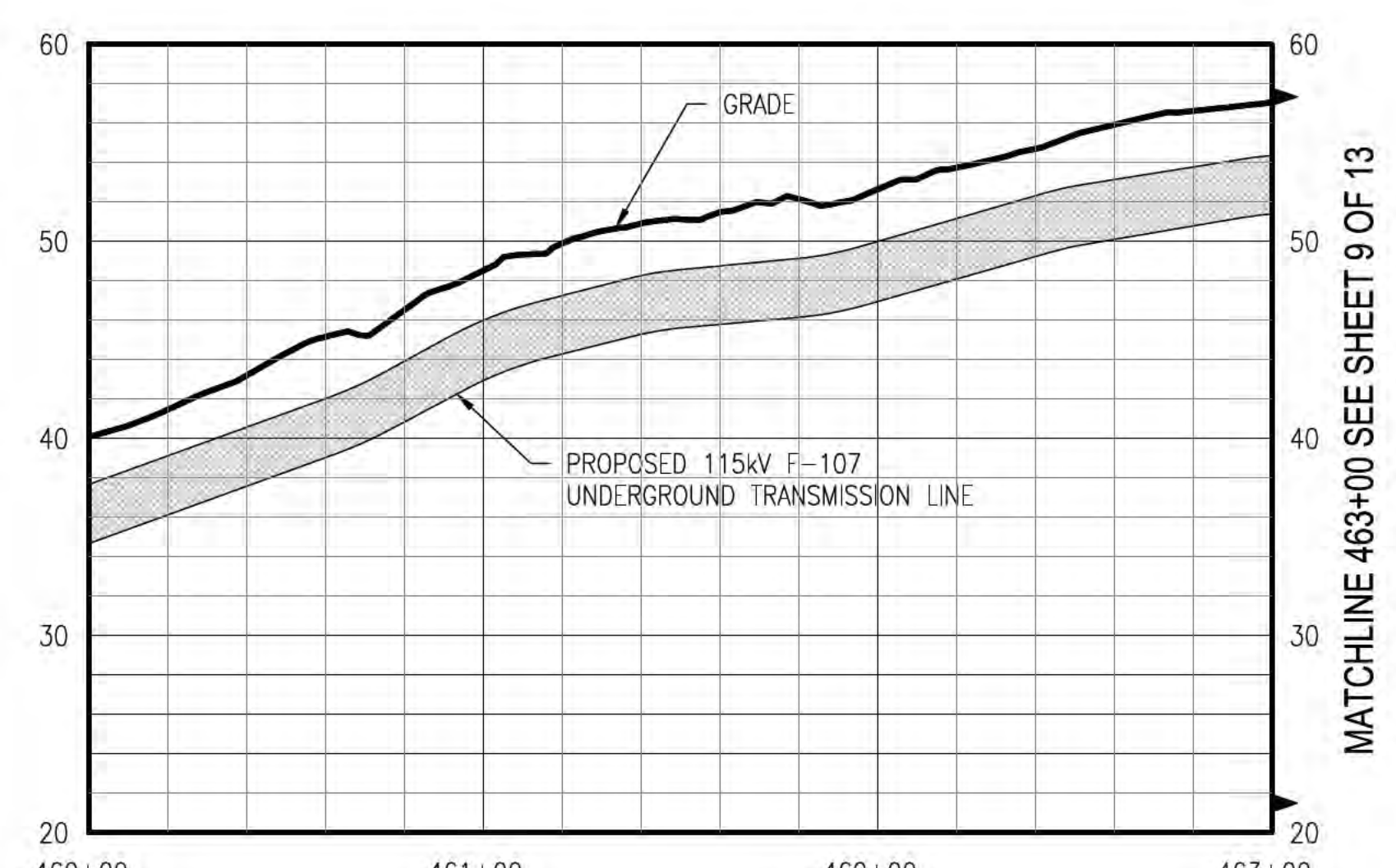
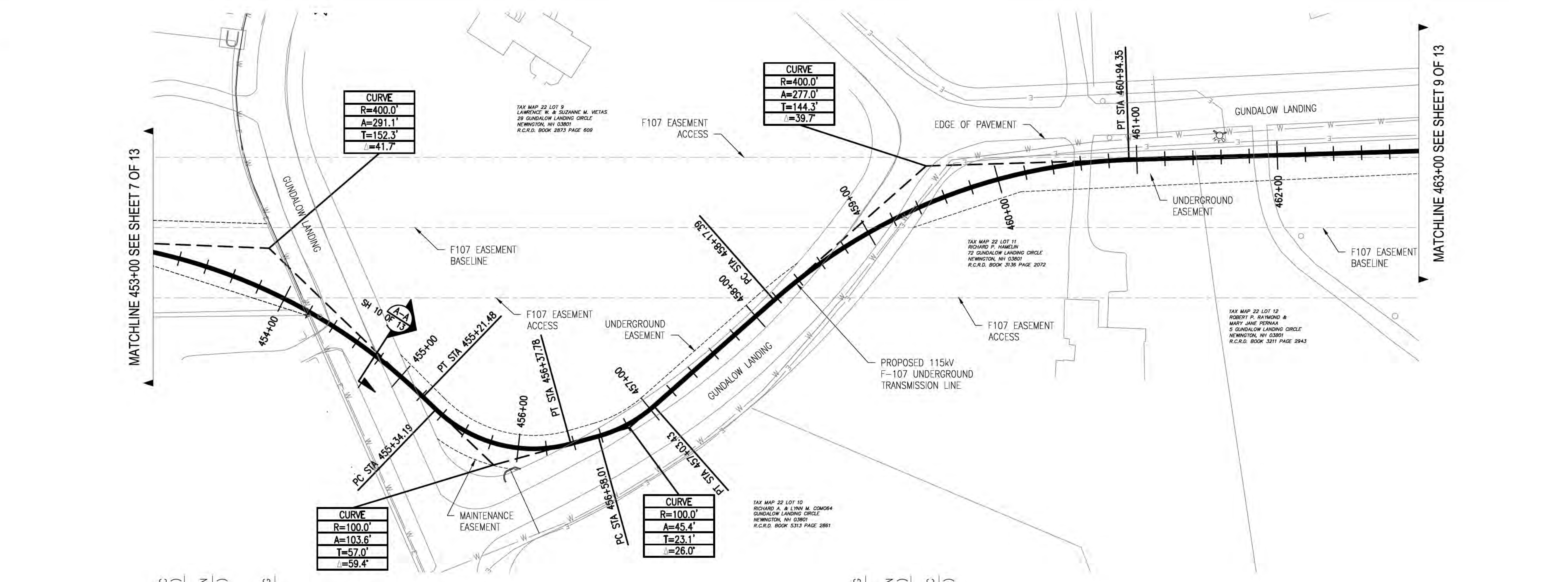
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CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW

DATE: 06/25/2015  
SCALE: H: 1"=40', V: 1"=8'

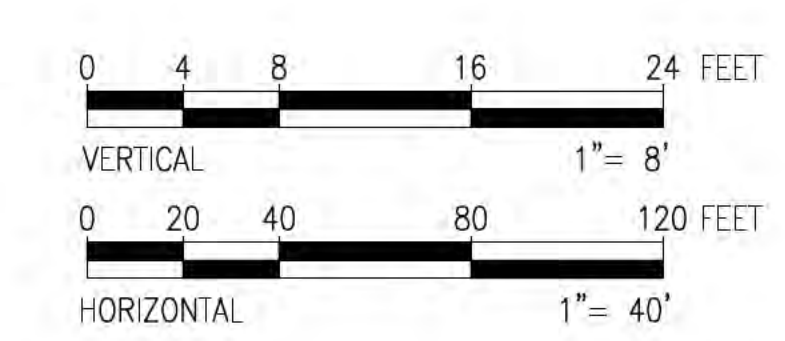
DES. REQ. CHKD. TSG  
DRW. REQ. APR.  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 7 OF 13  
F10743003





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13	ISSUED FOR SEC. REVISED STRUCTURE	10/17/18	REO	SCG	TSG
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/27/17	REO	SCG	TSG
11	REVISED JOB DESIGN	8/27/17	REO	SCG	TSG
10	ISSUED FOR DESIGN	8/15/18	REO	SCG	TSG
9	ISSUE FOR BID	5/9/18	REO	SCG	TSG
8	ISSUE FOR BID	5/9/18	REO	SCG	TSG
7	REVISION	DATE	DRWN	CHKD	APPRV.

DATE: 08/25/2015  
 SCALE: H: 1"=40', V: 1"=8'

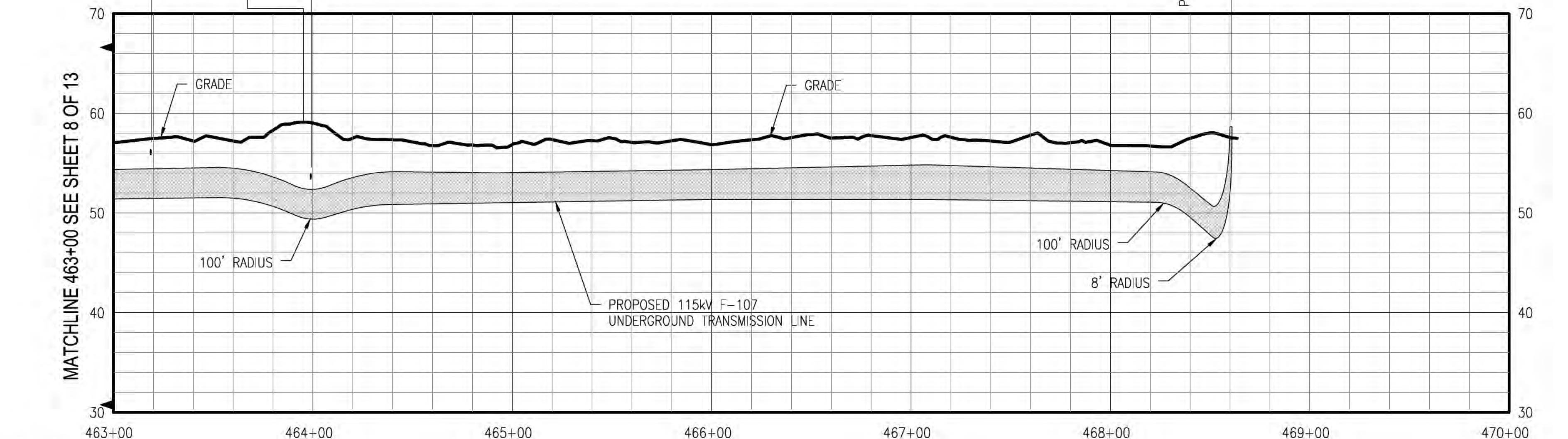
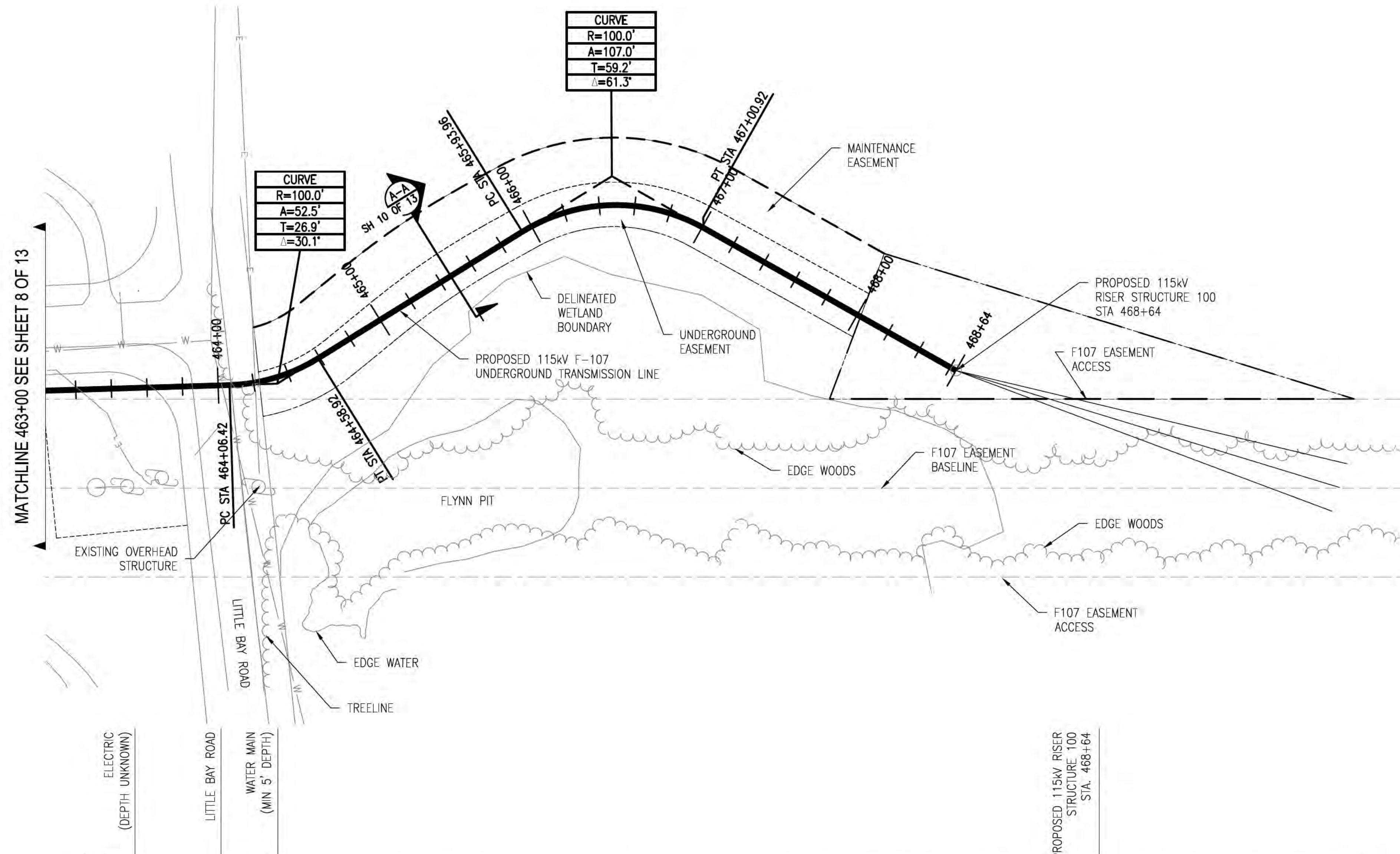
CIRCUIT F-107 115kV UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE VIEW

T 13

DES: REO CHK: TSG  
 DRW: REO APR:  
 TOWN: NEWINGTON  
 TRANSMISSION LINE:  
 LINE  
 MILE NO: 8 & 9  
 DISCIPLINE/SHT NO.  
 SHEET 8 OF 13  
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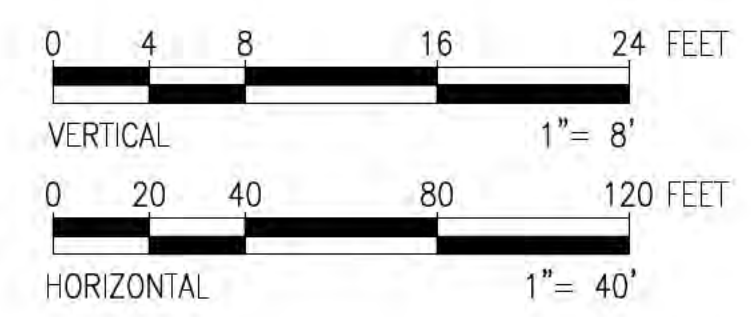






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14. IF MONOPOLE RISER STRUCTURE INSTALLED AT STATION 468+61 INSTALL ALL DUCTS ALONG CENTERLINE ALIGNMENT.



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13	ISSUED FOR SEC. REVISED STRUCTURE 100	7/7/18	ISS
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/27/17	ISS
11	REVISED FOR DESIGN	7/27/17	ISS
10	ISSUED FOR DESIGN	8/15/16	ISS
9	ISSUE FOR BD	8/15/16	ISS
8	ISSUE FOR BD	5/9/16	ISS
	REVISION	DATE	DRWN
			CHKD
			APPRV.

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

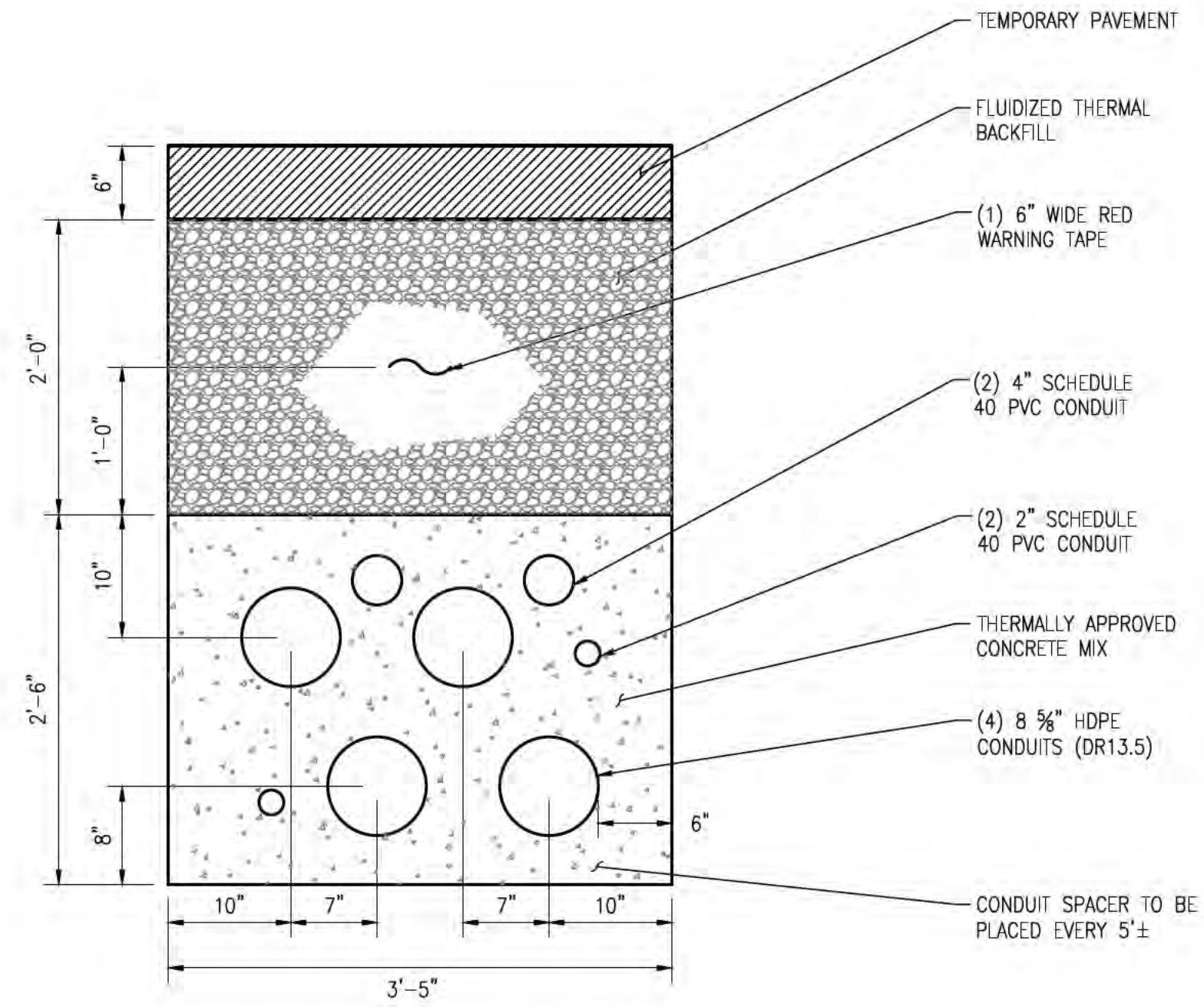
T 13  
DATE: 08/25/2015

DES. REQ. CHKD: TSB  
DRW. REQ. APR: [blank]  
TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.  
SHEET 9 OF 13  
F10743003

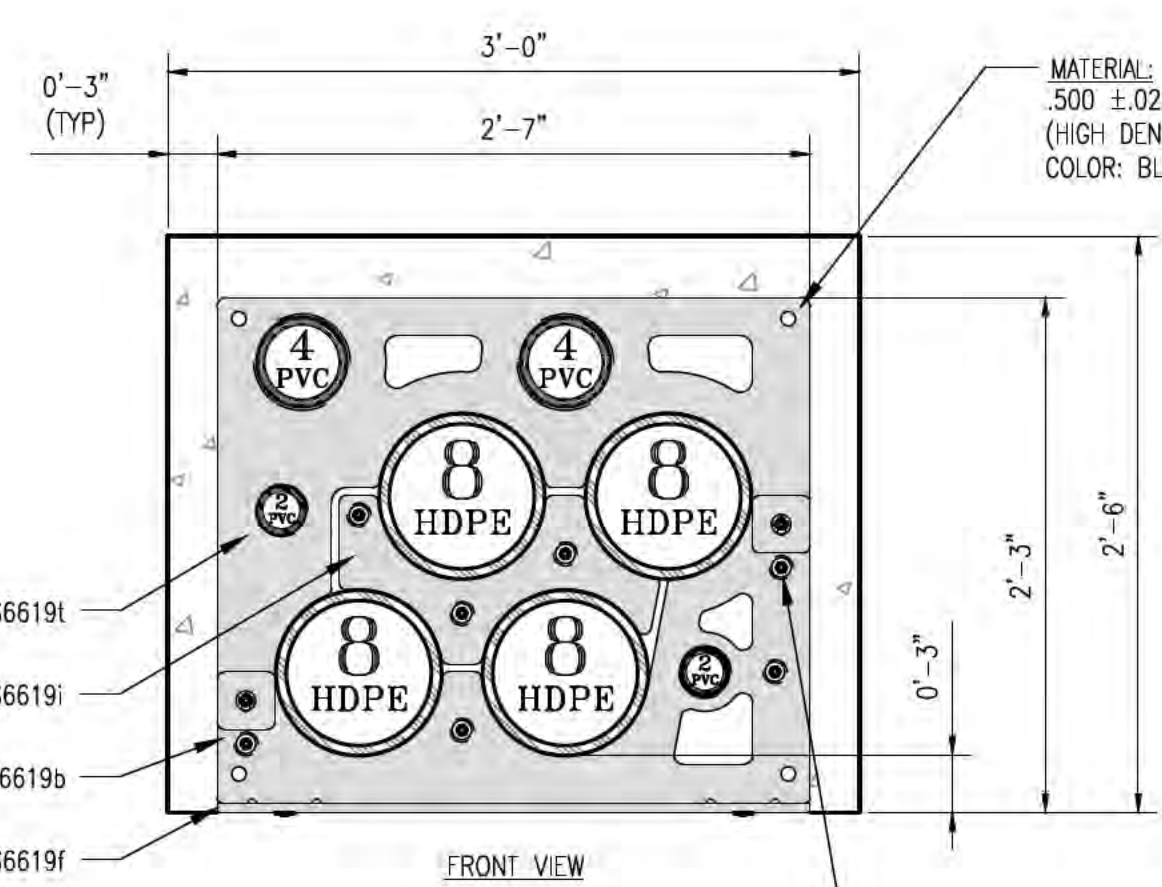




8/2/2017 10:29 AM - E:\Projects\133007\DD\DWG\03 Line\06 DESIGN\F10705060 REV 12 SH 10.dwg - 10 ES VER: 11/2015

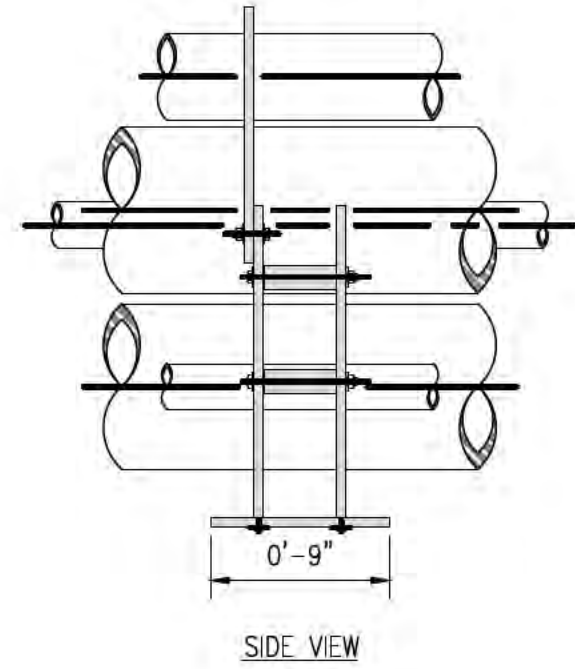


TYP TRENCH DETAIL SECTION  
SCALE N.T.S. SH 10 OF 13

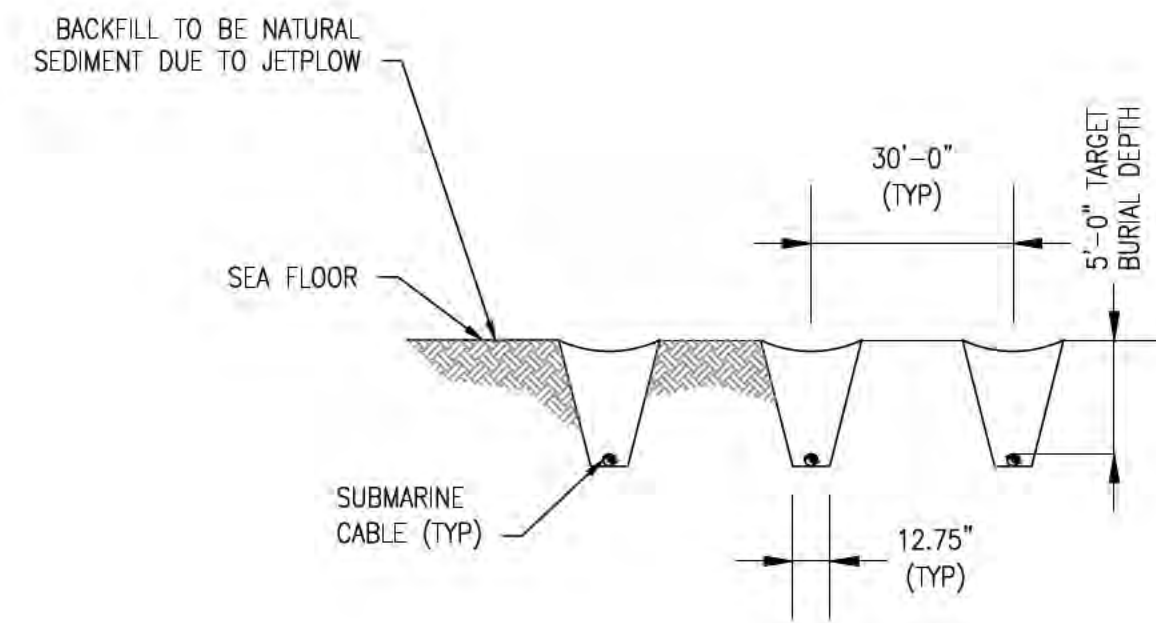


THE NUTS, BOLTS & WASHERS REQUIRED TO SECURE THE TOP SPACER TO THE BASE SPACER ARE IN A BAG THAT IS ATTACHED TO THE TOP SPACER

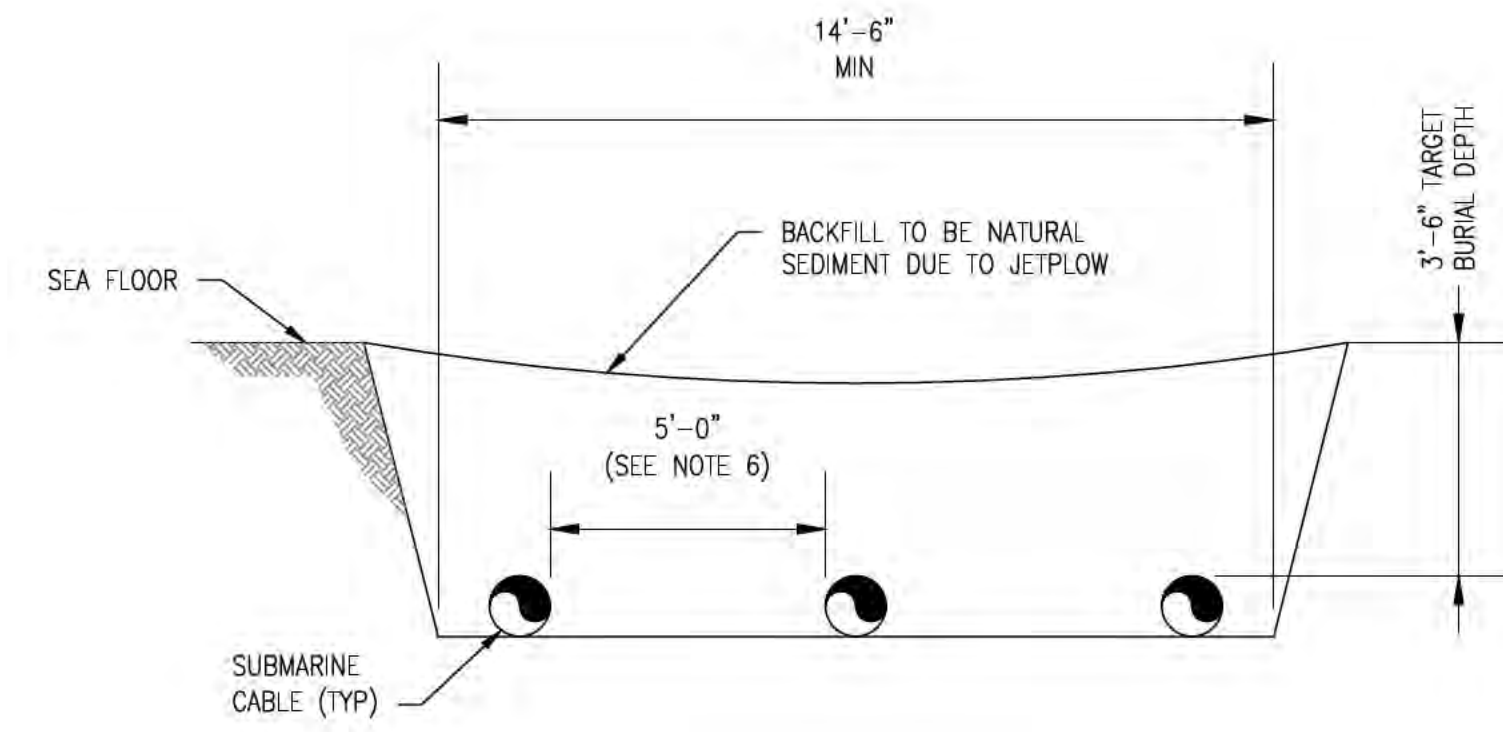
UNDERGROUND DEVICES SPACER ARRANGEMENT DETAIL  
SCALE N.T.S. SH 10 OF 13



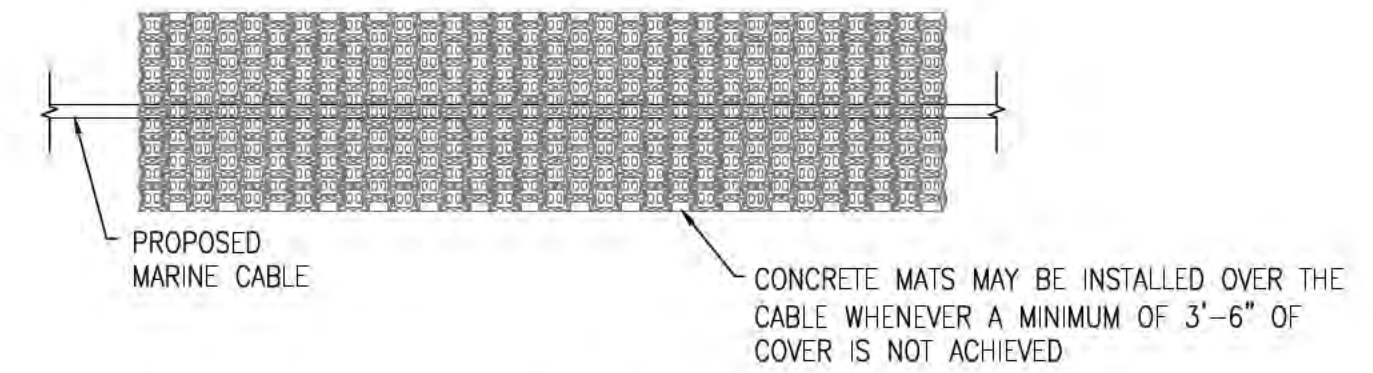
- NOTES:
1. STAGGER BELL ENDS.
  2. AVOID STANDING ON CONDUIT.
  3. BELL ENDS SHALL BE INSTALLED ALL IN THE SAME DIRECTION BETWEEN TERMINATIONS. (SEE PULL DIRECTION DETAIL.)
  4. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
  5. ALL DUCT SPACERS ARE UNDERGROUND DEVICES SPACERS, OR APPROVED EQUIVALENT.
  6. SEPARATION SHOWN IS TYPICAL SPACING IN TRENCH EXCAVATION AREAS. SEE PLAN DETAILS FOR SEPARATION AT OTHER LOCATIONS.



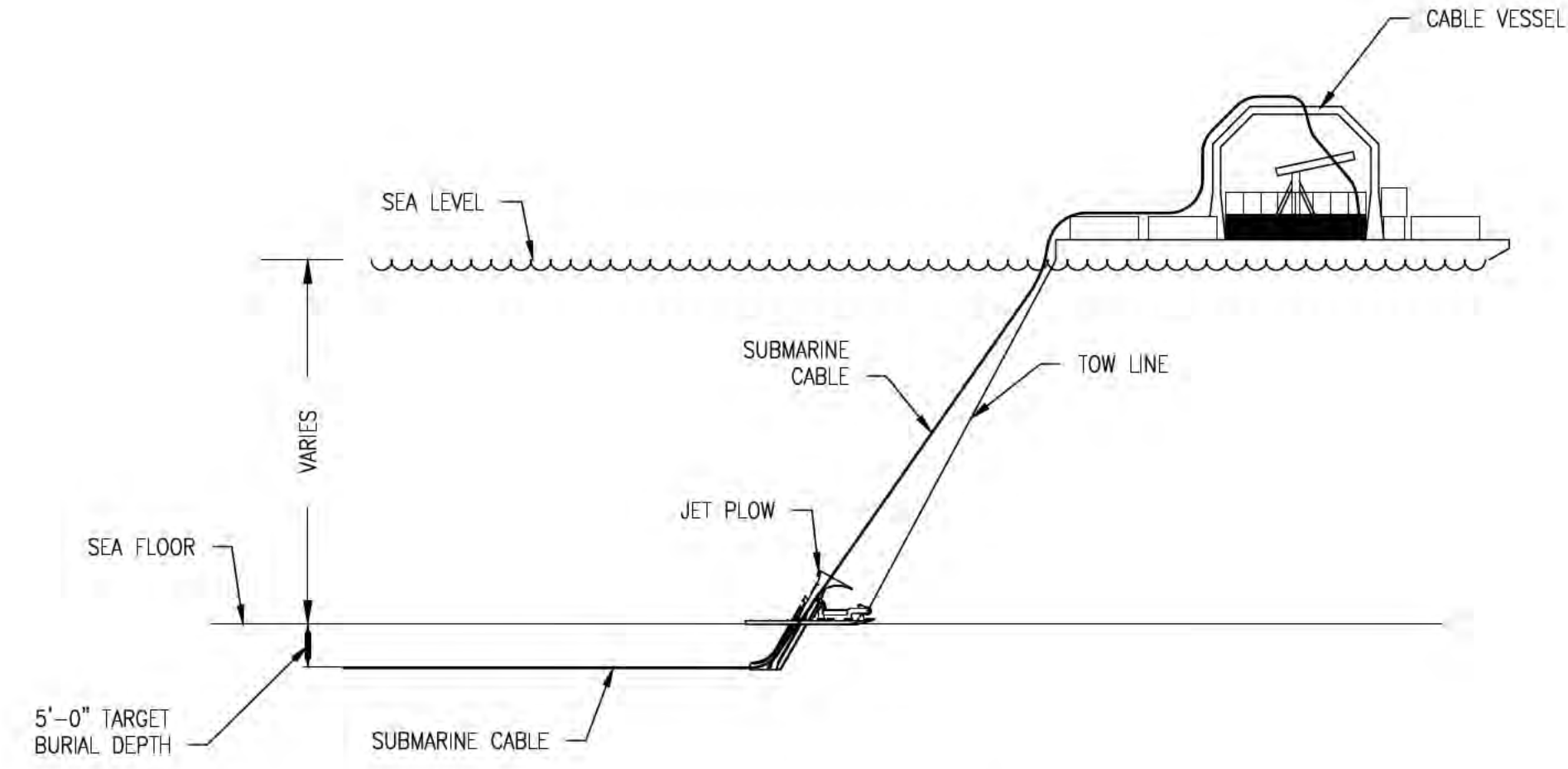
TYP SUBMARINE JET PLOW SECTION  
SCALE N.T.S. SH 10 OF 13



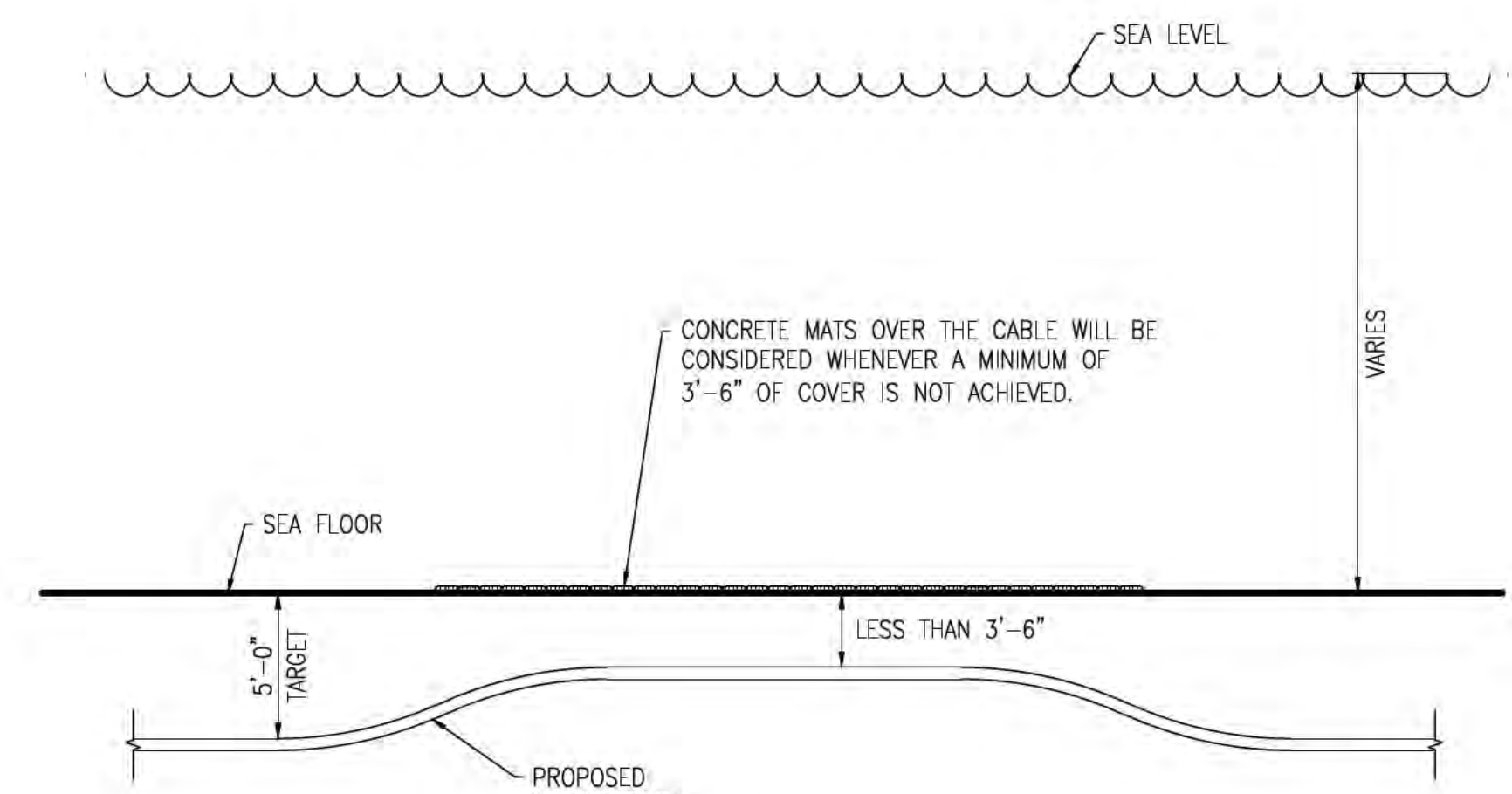
TYP SUBMARINE TRENCH SECTION  
SCALE N.T.S. SH 10 OF 13



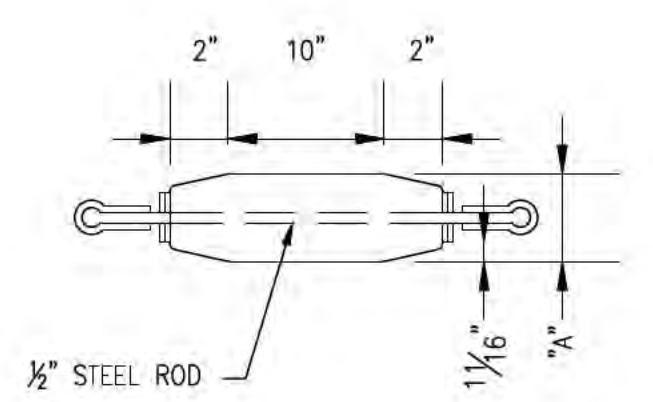
PLAN VIEW



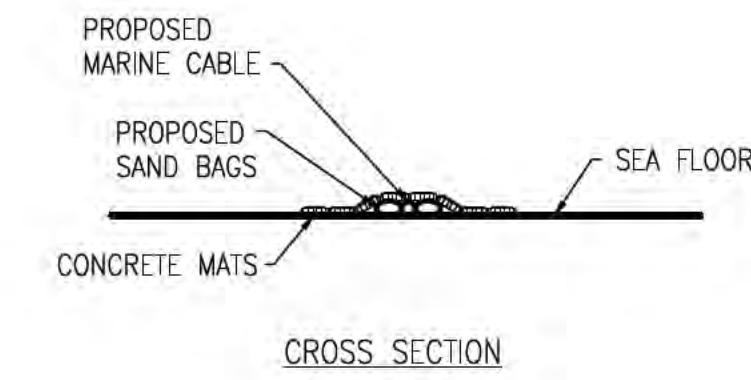
TYP SUBMARINE ELEVATION DETAIL  
SCALE N.T.S. SH 10 OF 13



PROFILE VIEW



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



CROSS SECTION

CONCRETE MATTING FOR SHALLOW PENETRATION DETAIL  
SCALE N.T.S. SH 10 OF 13

NO.	REVISION	DATE	DRWN	CHKD	APPRV.
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	TSBG
11	REVISED 70% DESIGN	1/20/17	REO	SCG	TSBG
10	REVISED 30% DESIGN	9/7/16	REO	SCG	TSBG
9	ISSUE FOR BID	5/27/16	REO	SCG	TSBG
8	ISSUE FOR BID	5/27/16	REO	SCG	TSBG
7	ISSUE FOR PERMIT RELOCATE RISER	12/28/15	REO	SCG	TSBG

**EVERSOURCE ENERGY**

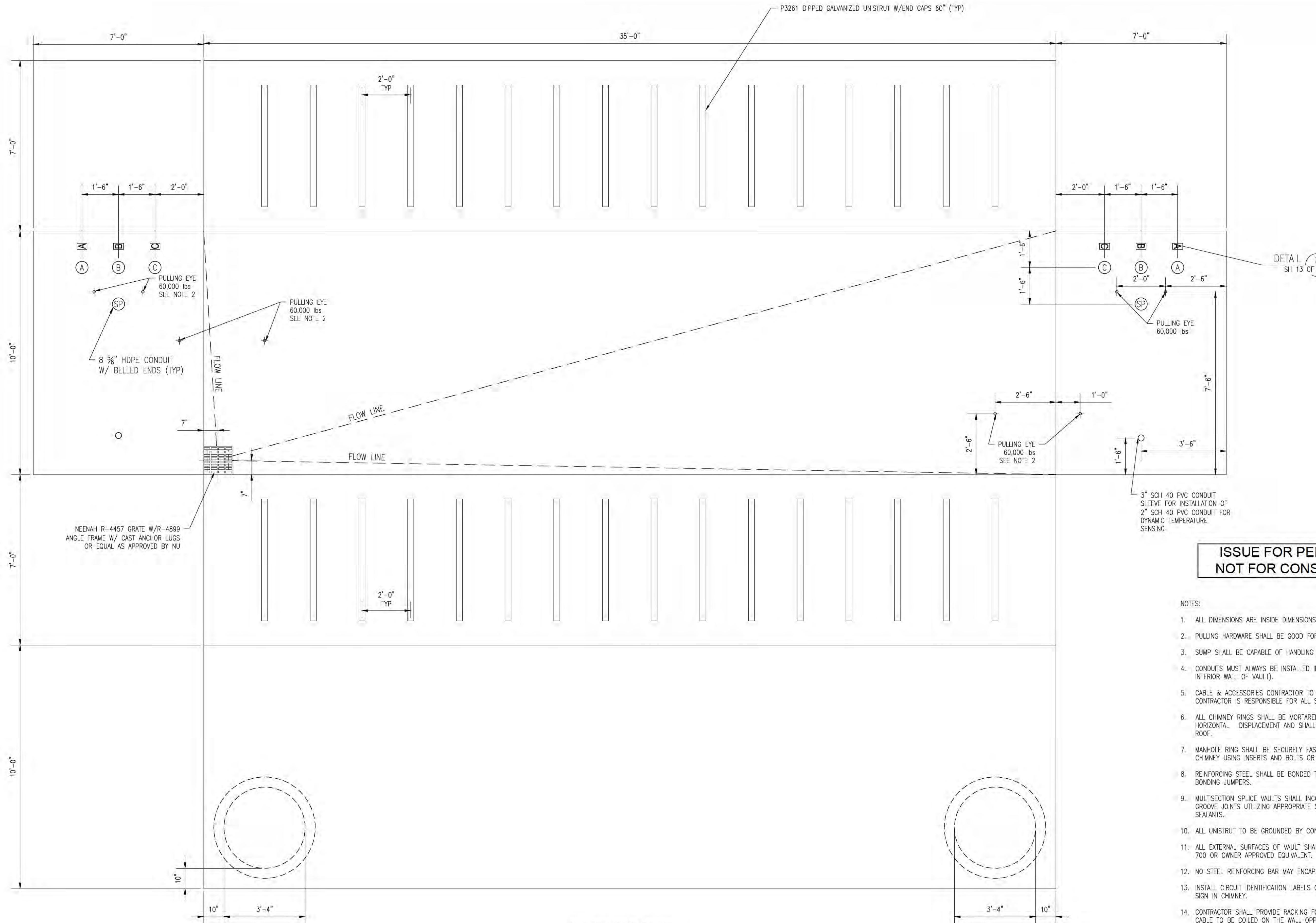
DES. REQ. CHKD/ISS	7	12
DRW. REQ. APR.		
TOWN:	NEWINGTON	
TRANSMISSION LINE:	LINE	
MILE NO. 8 & 9	DISCIPLINE/SHIT NO.	
SHEET 10 OF 13	DATE: 08/25/2015	
F10705060	SCALE: N.T.S.	

**ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION**



PRINT DRAWING TO SCALE ON 22"X34" SHEET





DETAIL 2  
SH 13 OF 13

**ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION**

- 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  
SCALE 1" = 2'-0" (1)  
SH 11 OF 13

NO.	REVISION	DATE	DRWN	CHKD	APPR.
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	TSB
11	REVISED FOR DESIGN	1/20/17	REO	SCG	TSB
10	REVISED FOR DESIGN	9/15/16	REO	SCG	TSB
9	ISSUE FOR BID	5/9/16	REO	SCG	TSB
8	ISSUE FOR PERMIT RELOCATE RISER	12/28/15	REO	SCG	TSB
7	ISSUE FOR PERMIT RELOCATE RISER	12/28/15	REO	SCG	TSB

**EVERSOURCE  
ENERGY**

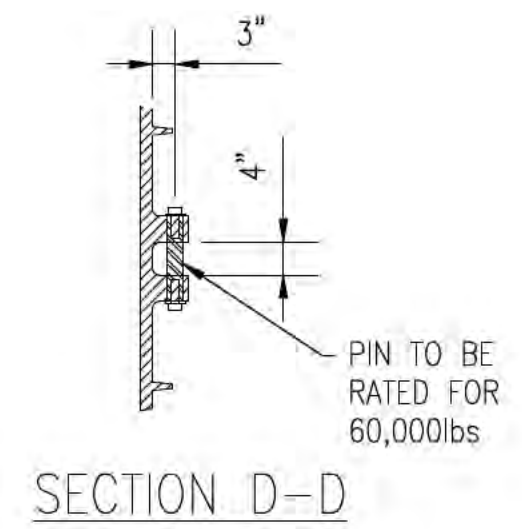
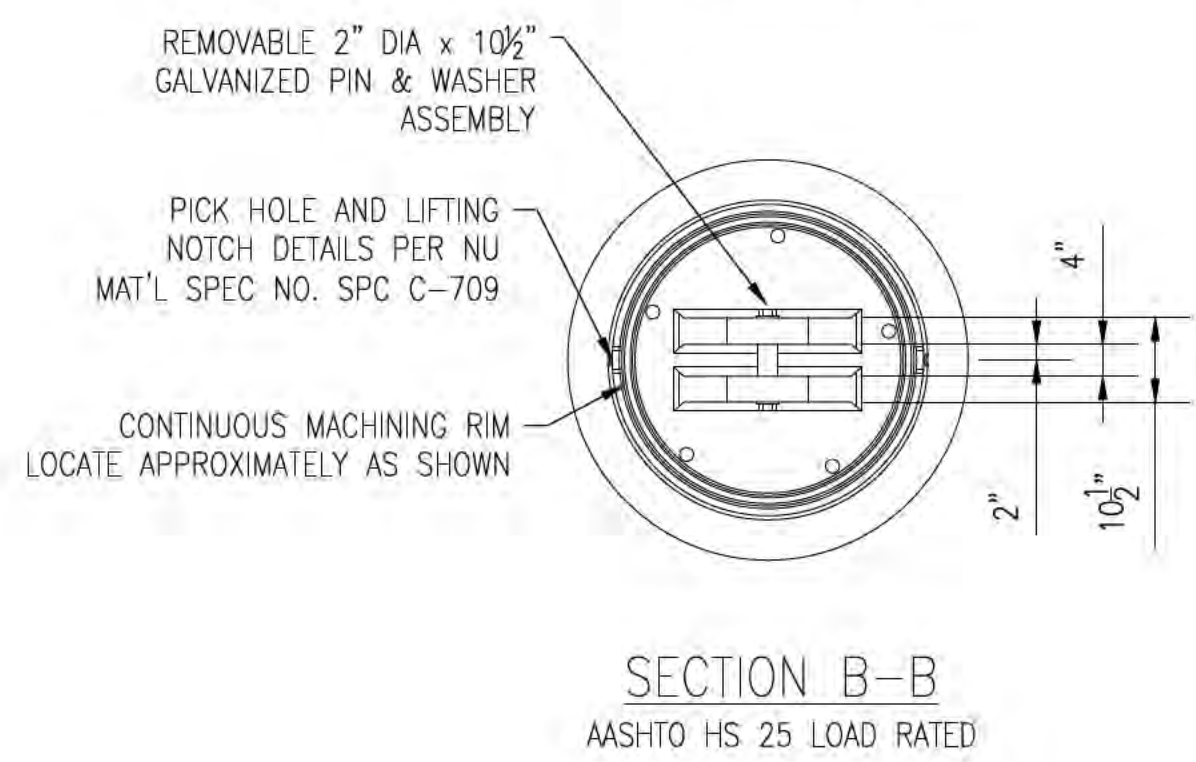
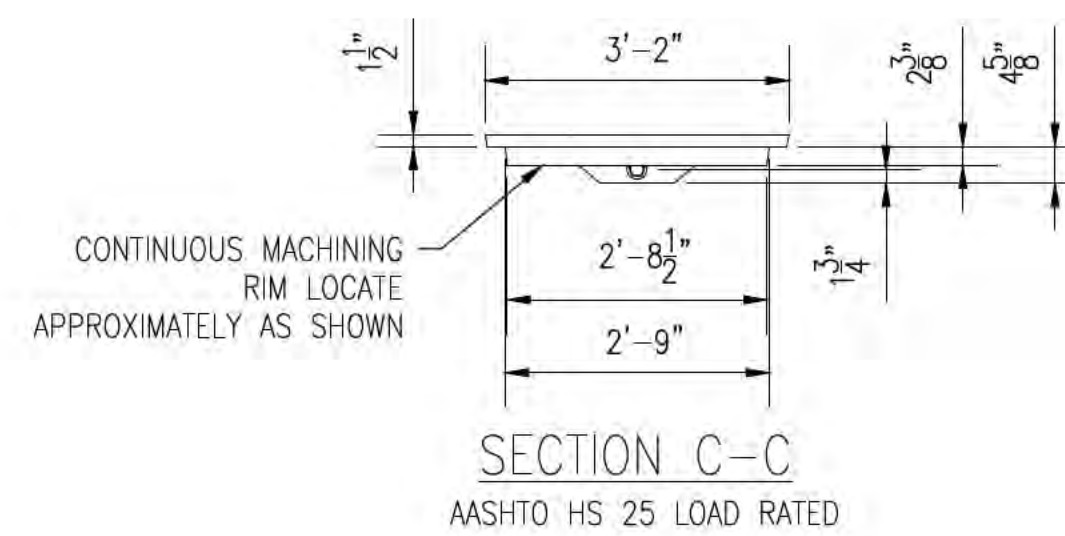
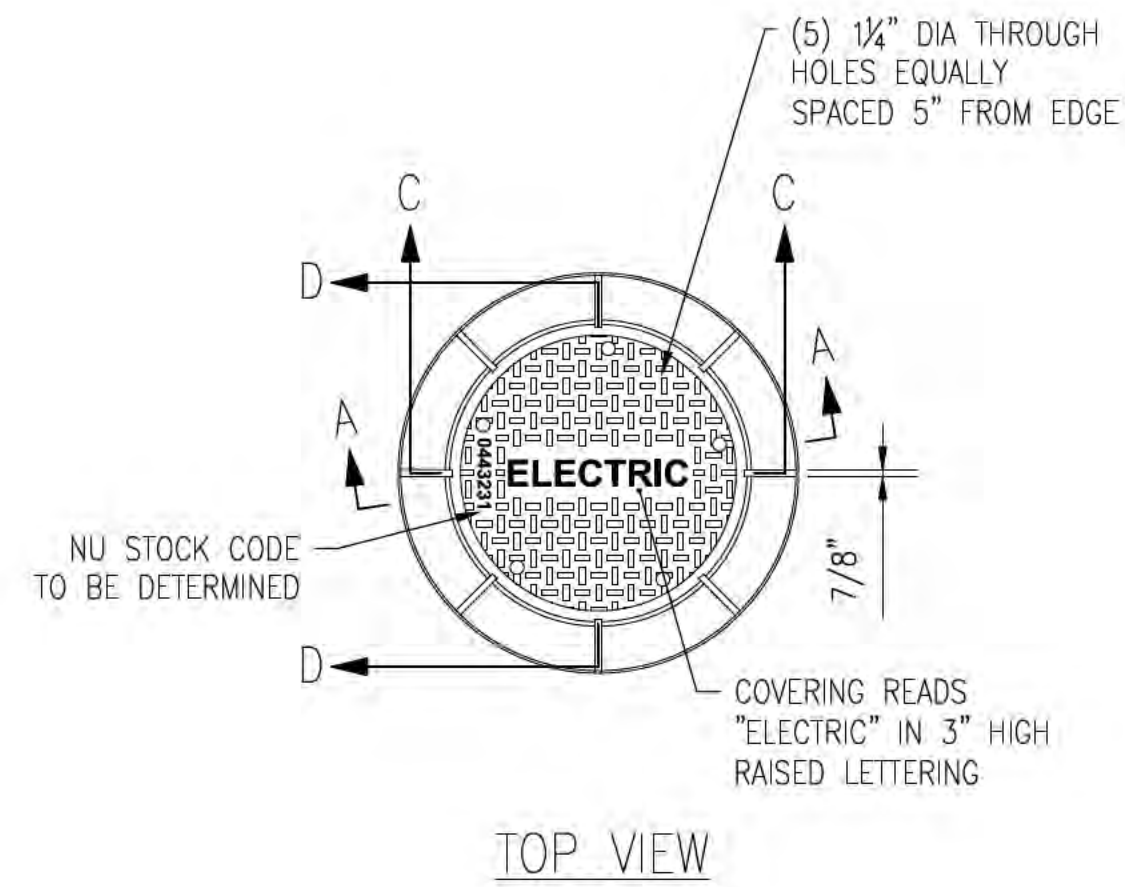
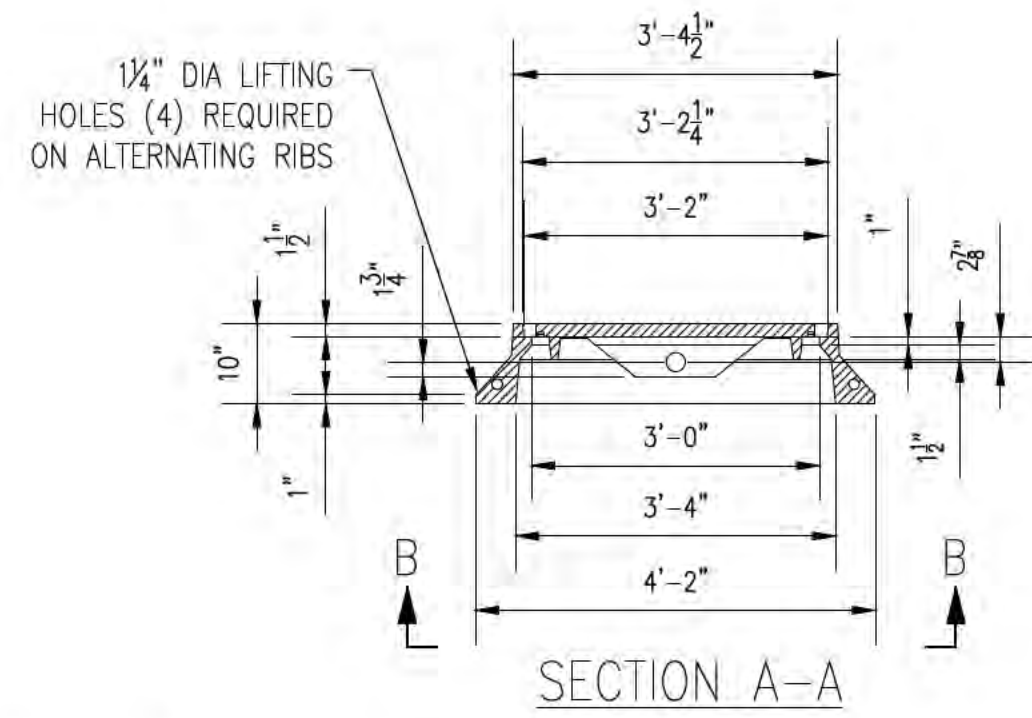
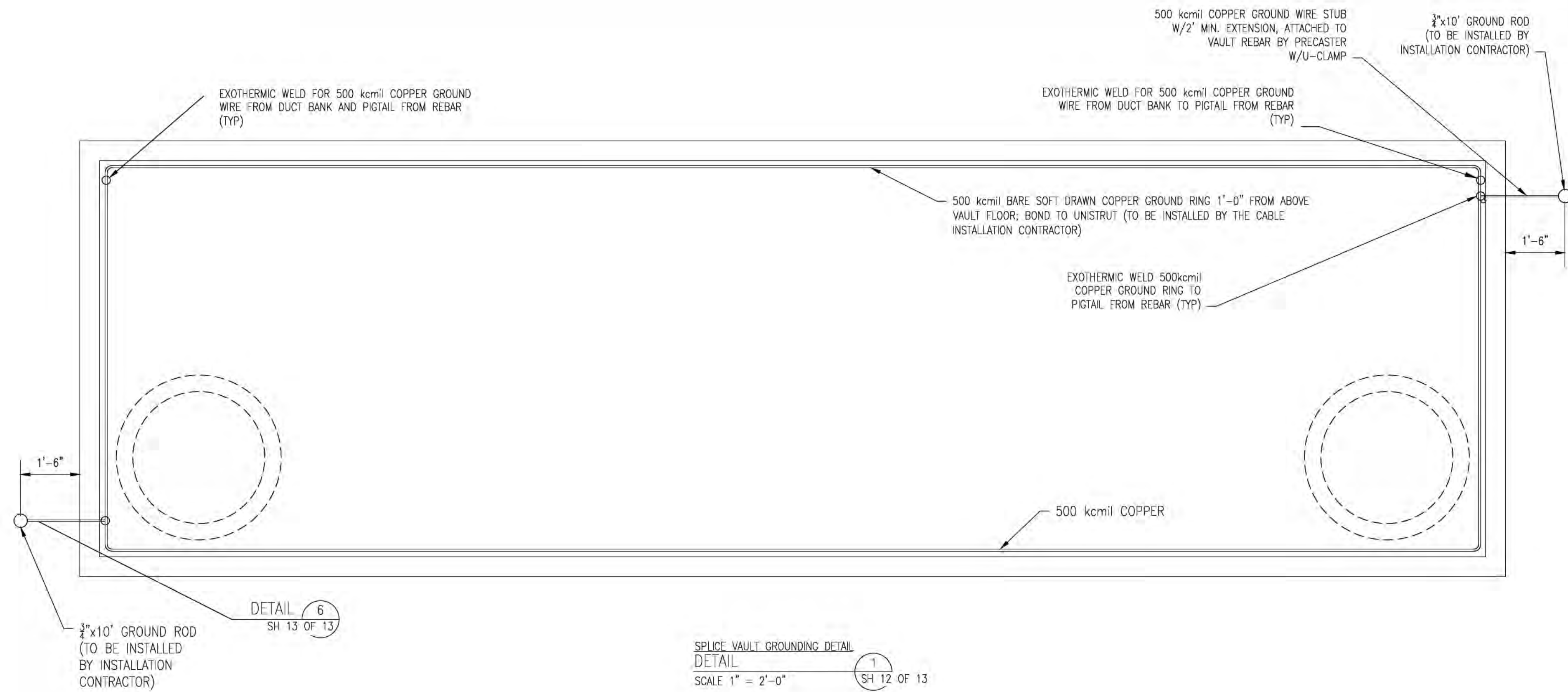
T 12

CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
SPLICE VAULT DETAIL SHEET  
SCALE: A1:5  
DATE: 08/29/2015

TOWN: NEWINGTON  
TRANSMISSION LINE: LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHT NO.: SHEET 11 OF 13  
F10705060







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

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

**ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION**

- 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 GROUNDING BY CONTRACTOR.
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  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.

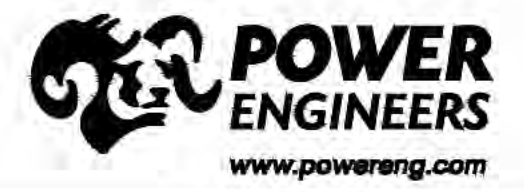
NO.	REVISION	DATE	ISSG	CHKD	APPR.
12	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	ISG
11	REVISED FOR DESIGN	1/20/17	REO	SCG	ISG
10	REVISED FOR DESIGN	8/16/16	REO	SCG	ISG
9	ISSUE FOR BID	5/9/16	REO	SCG	ISG
8	ISSUE FOR PERMIT RELOCATE RISER	12/28/15	REO	SCG	ISG
7	REVISION		DRWN	CHKD	APPR.

**EVERSOURCE  
ENERGY**

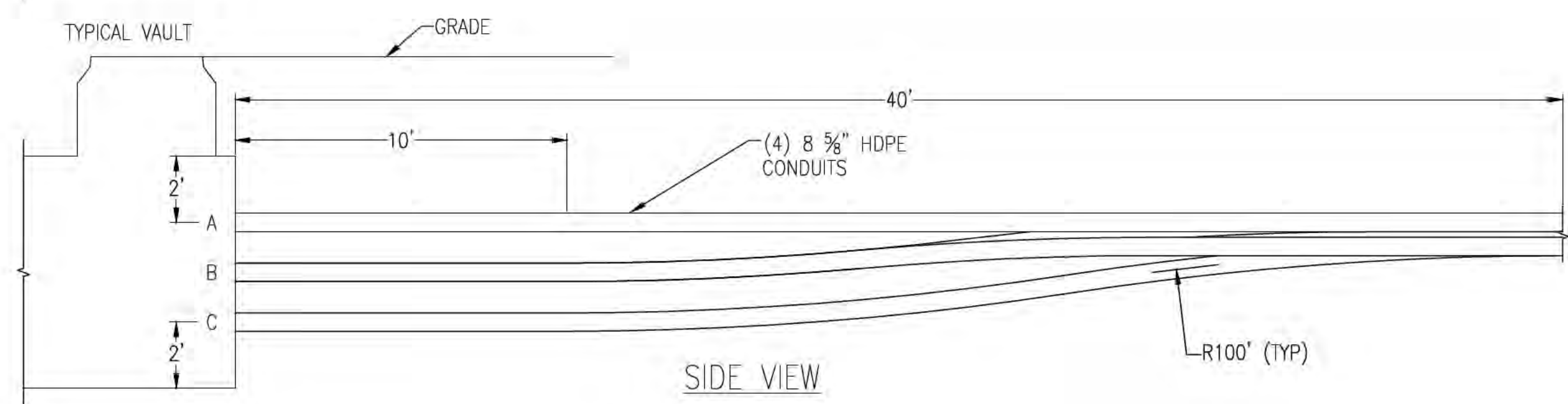
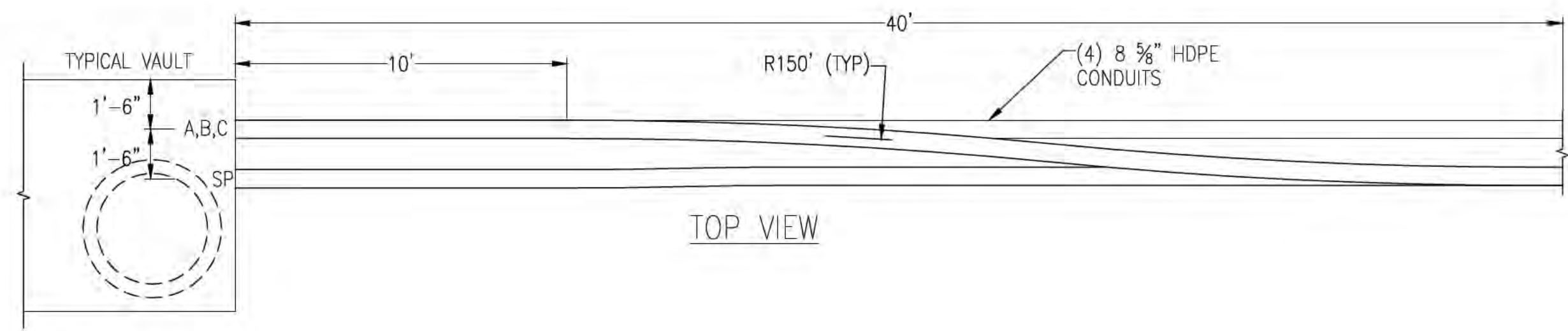
T 12

CIRCUIT F-107 115kV  
UNDERGROUND TRANSMISSION LINE  
SPLICE VAULT DETAIL SHEET  
SCALE: N.T.S.  
DATE: 08/29/2015

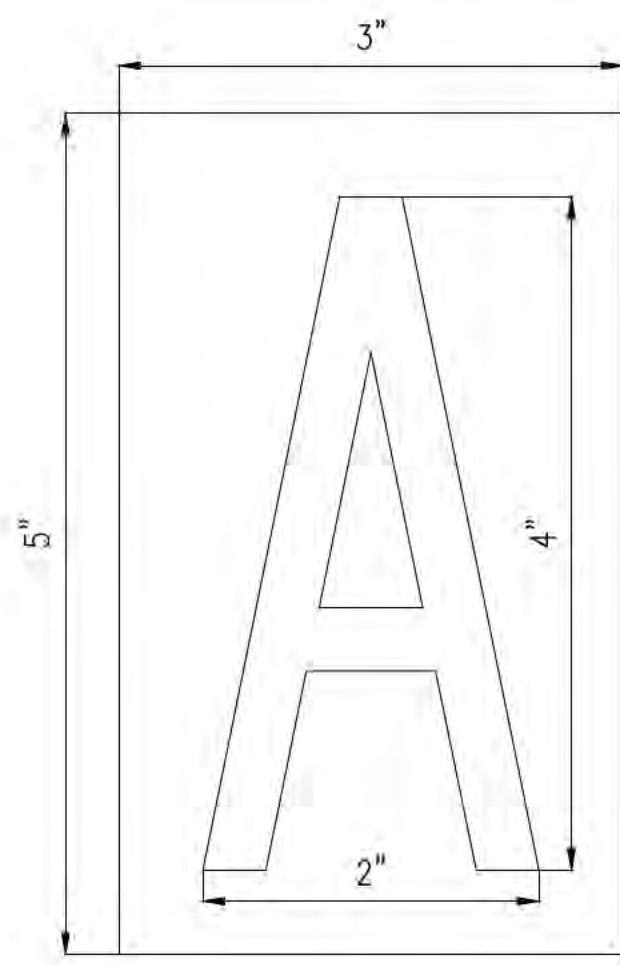
DES. REO: CHK: ISG  
DRW. REO: APR:  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 8 & 9  
DISCIPLINE/SHIT NO.  
SHEET 12 OF 13  
F10705060



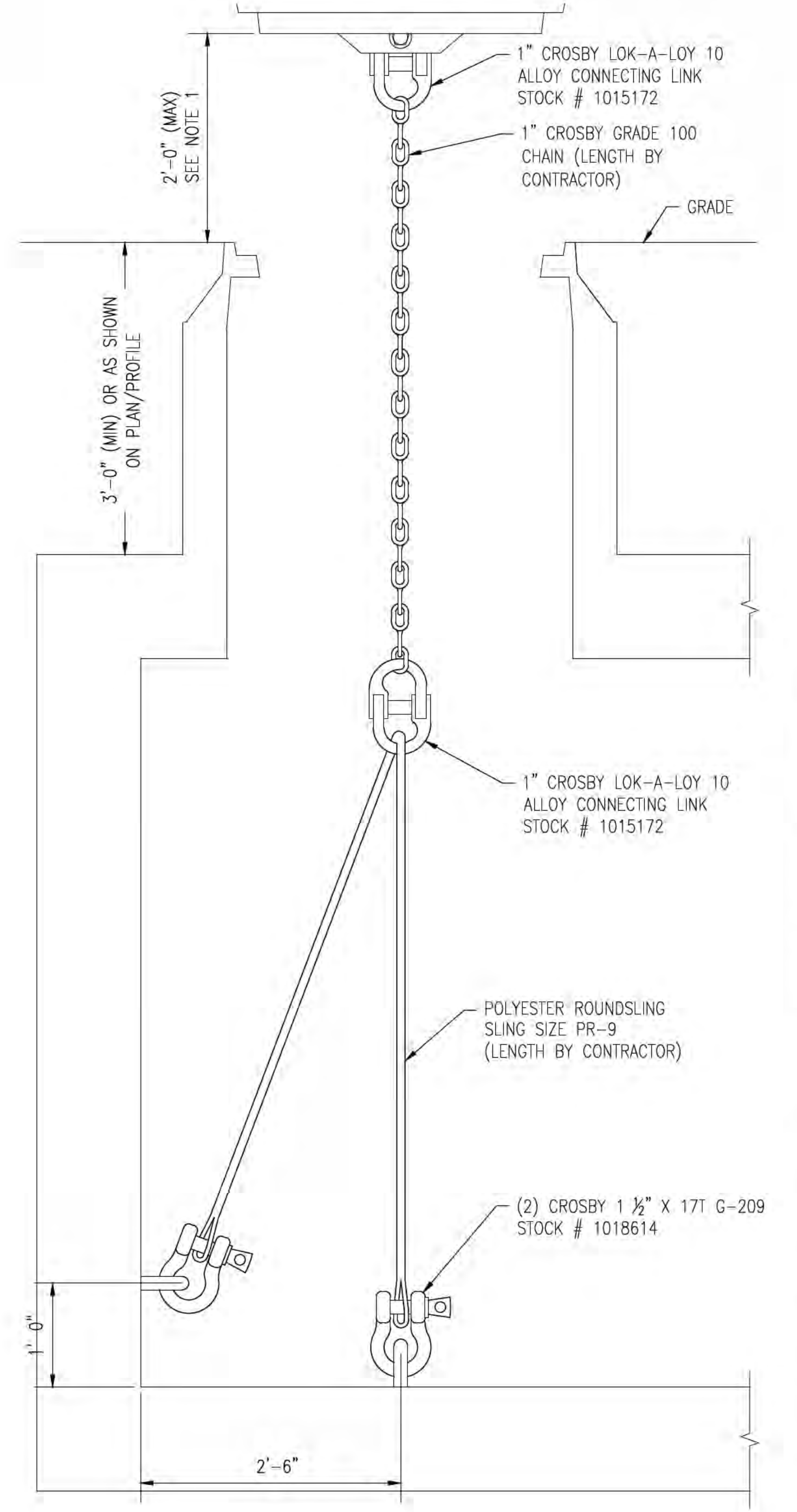
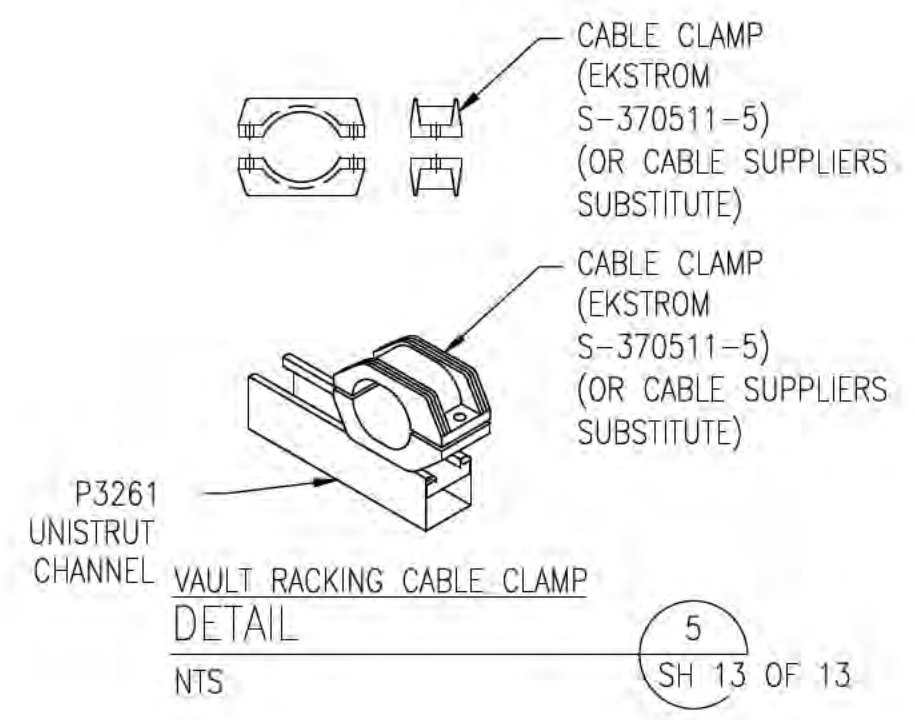
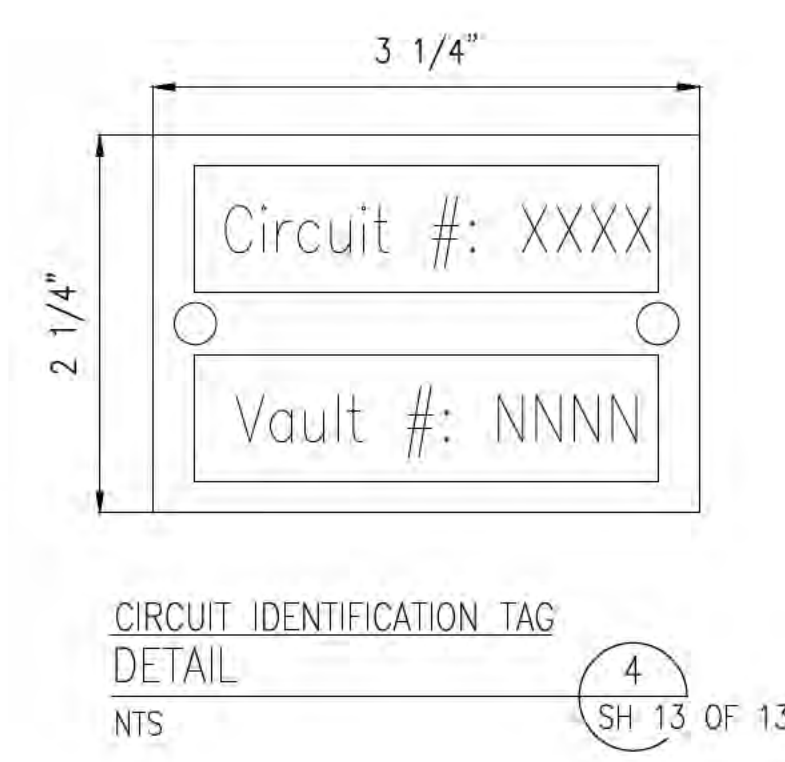
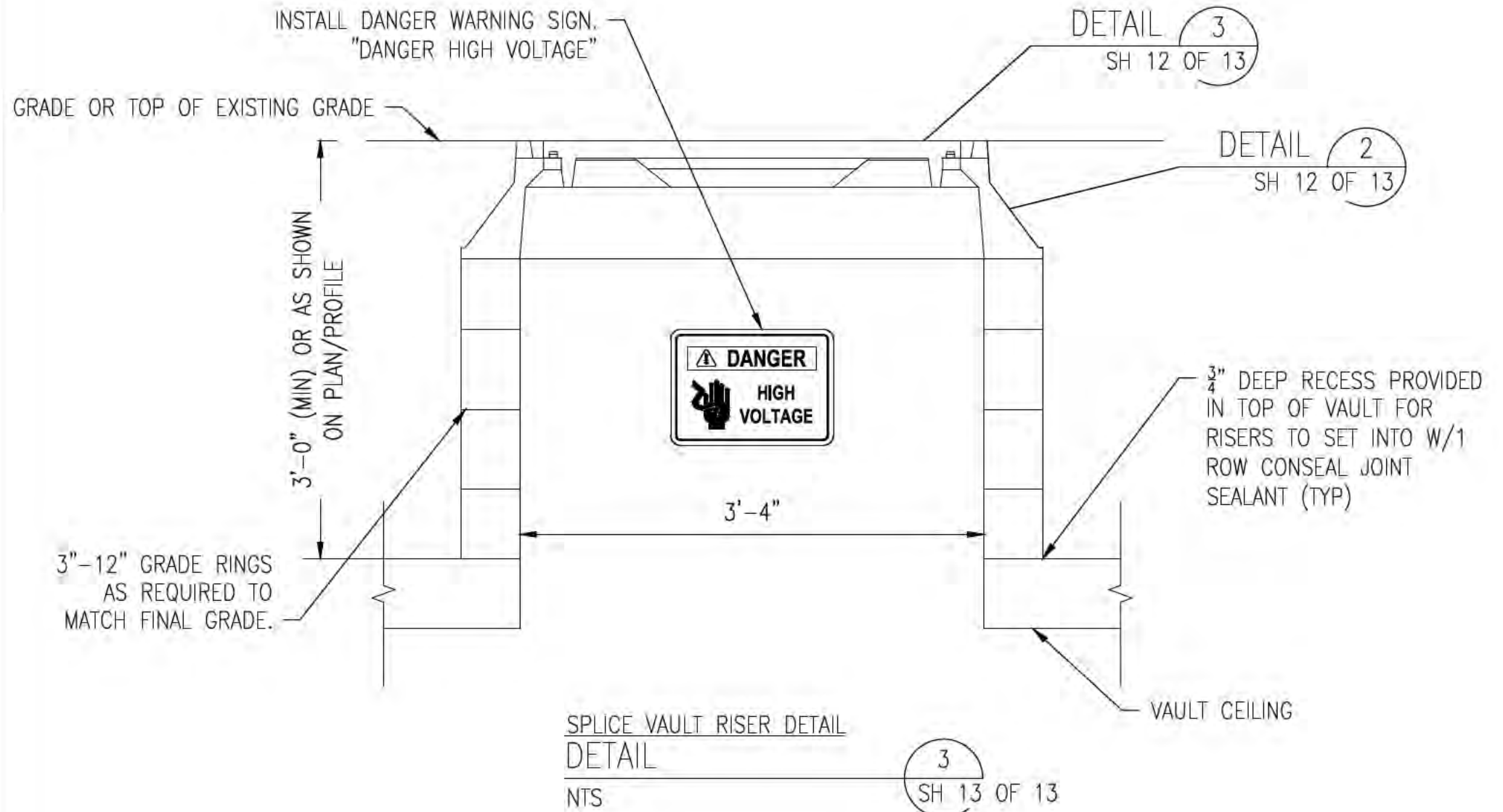




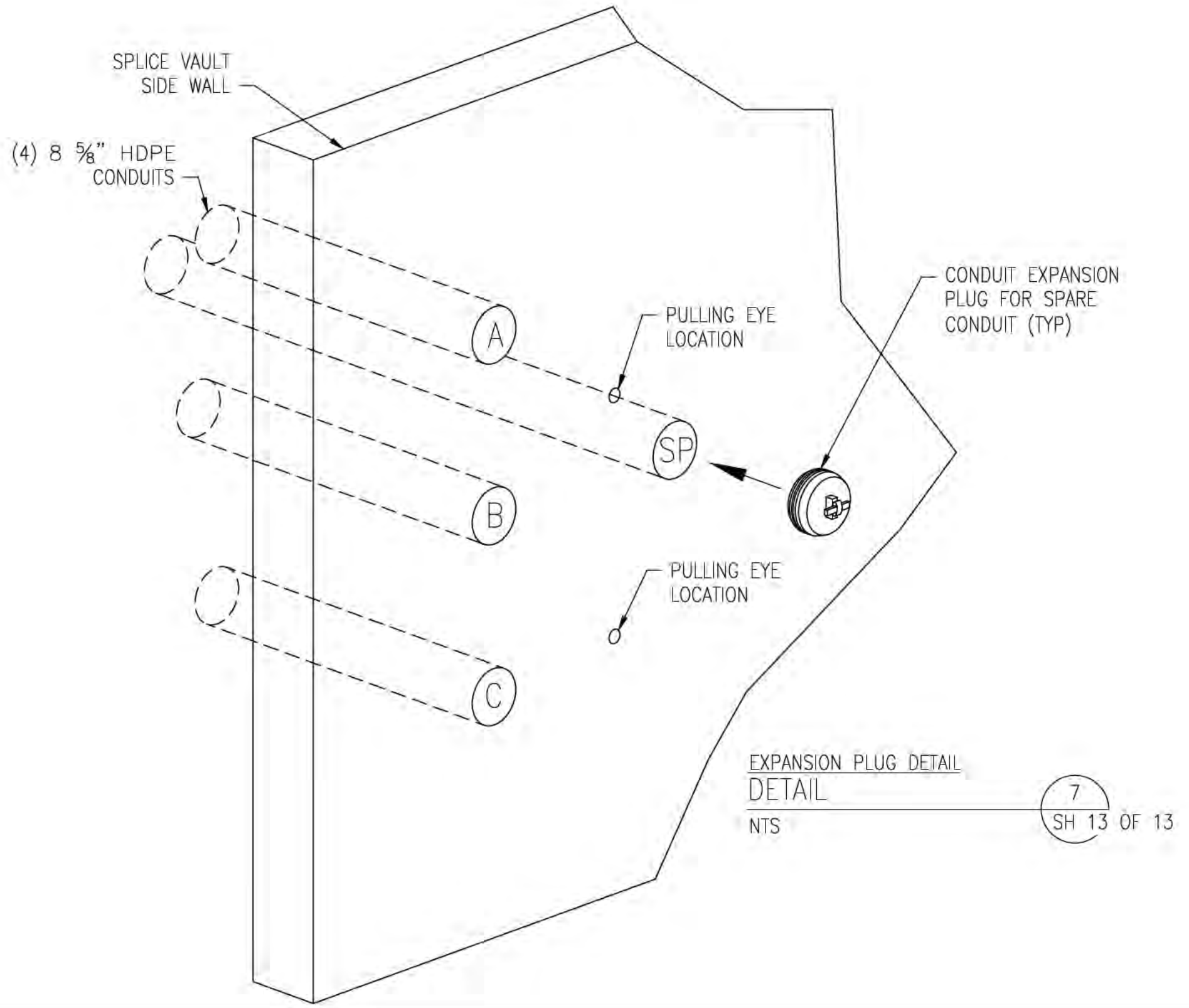
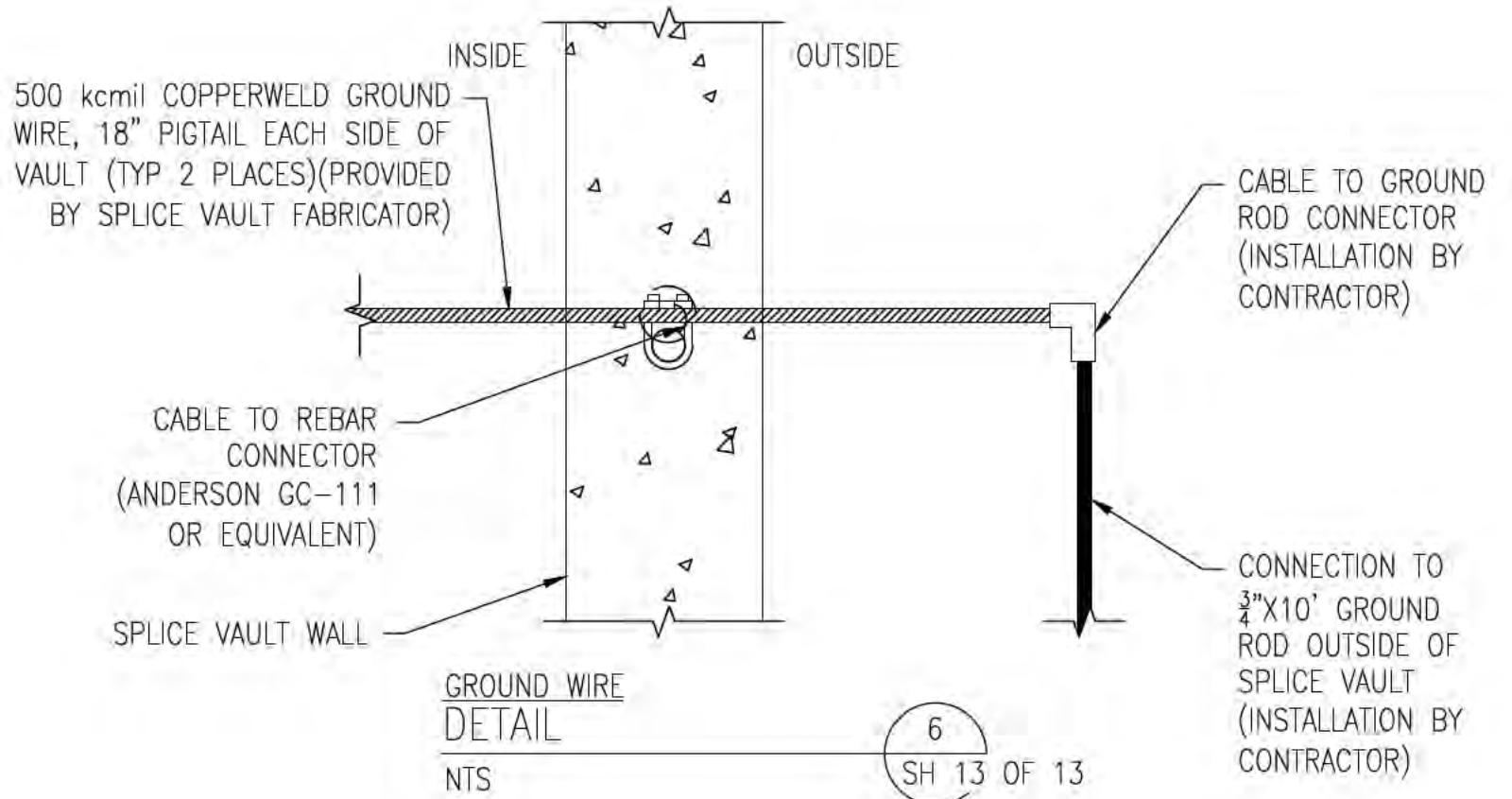
SPLICE VAULT TRANSITION DETAIL  
 1  
 NTS SH 13 OF 13



- 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



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



ISSUE FOR PERMITTING  
 NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY	CHKD	APPVR.
1	ISSUED FOR SEC. REVISED BURIAL DEPTH	8/2/17	REO	SCG	ISG
2	REVISED FOR DESIGN	1/20/17	REO	SCG	ISG
3	REVISED FOR DESIGN	8/15/16	REO	SCG	ISG
4	ISSUE FOR BID	5/9/16	REO	SCG	ISG
5	ISSUE FOR PERMIT RELOCATE RISER	12/28/15	REO	SCG	ISG

**EVERSOURCE**  
 ENERGY

CIRCUIT F-107 115kV  
 UNDERGROUND TRANSMISSION LINE  
 SPLICE VAULT DETAIL SHEET  
 SCALE: N.T.S.  
 DATE: 08/29/2015  
 TOWN: NEWINGTON  
 TRANSMISSION LINE: LINE  
 MILE NO: 8 & 9  
 DISCIPLINE/SHT NO.  
 SHEET 13 OF 13  
 F10705060



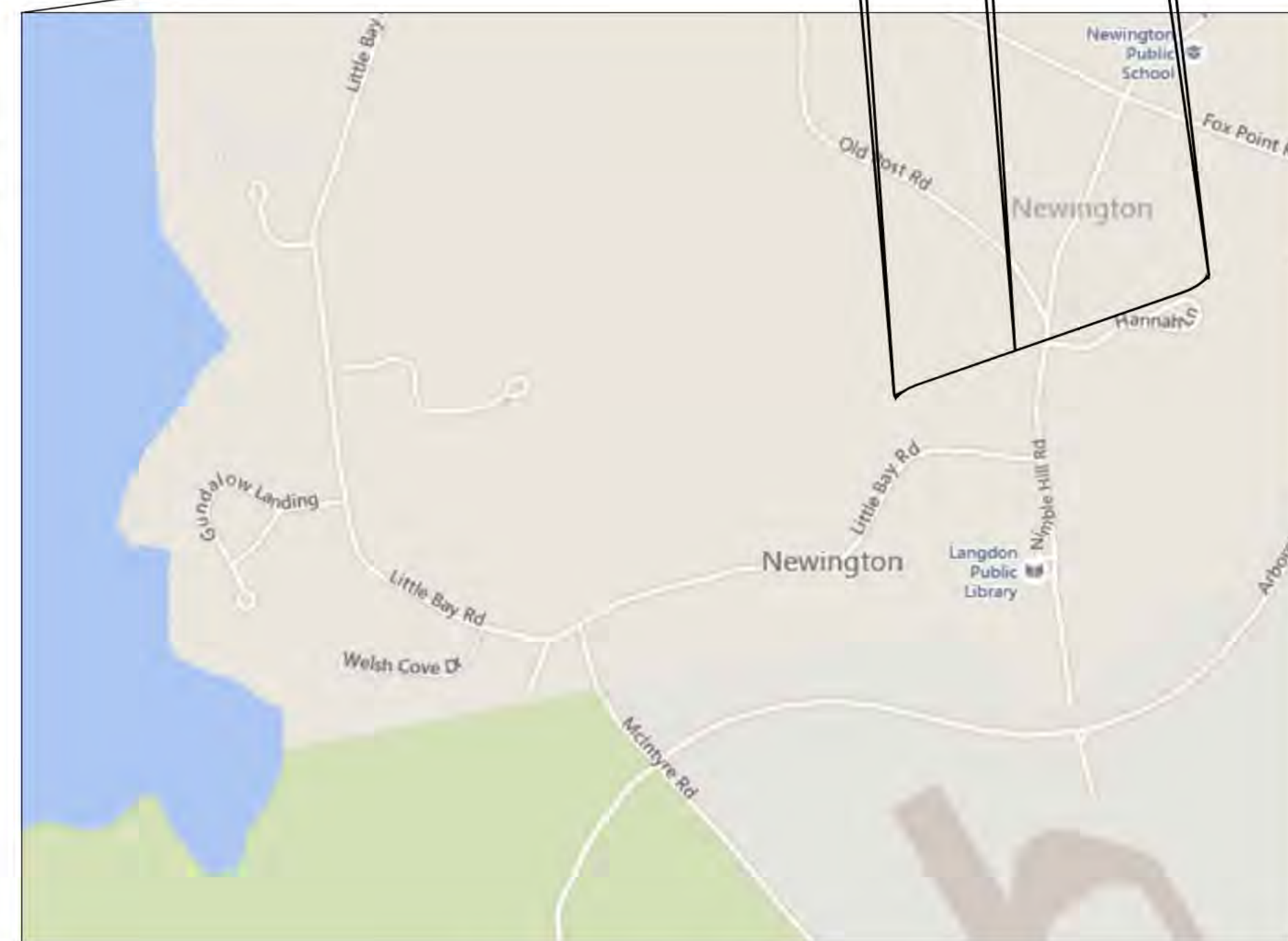
7/24/2018 7:19 AM - raisen - E:\Projects\133007\DD\DWG\03 Line\FRINK FARM\F10743004 REV 13.dwg - SH 1 COVER ES VER: 11/2015

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

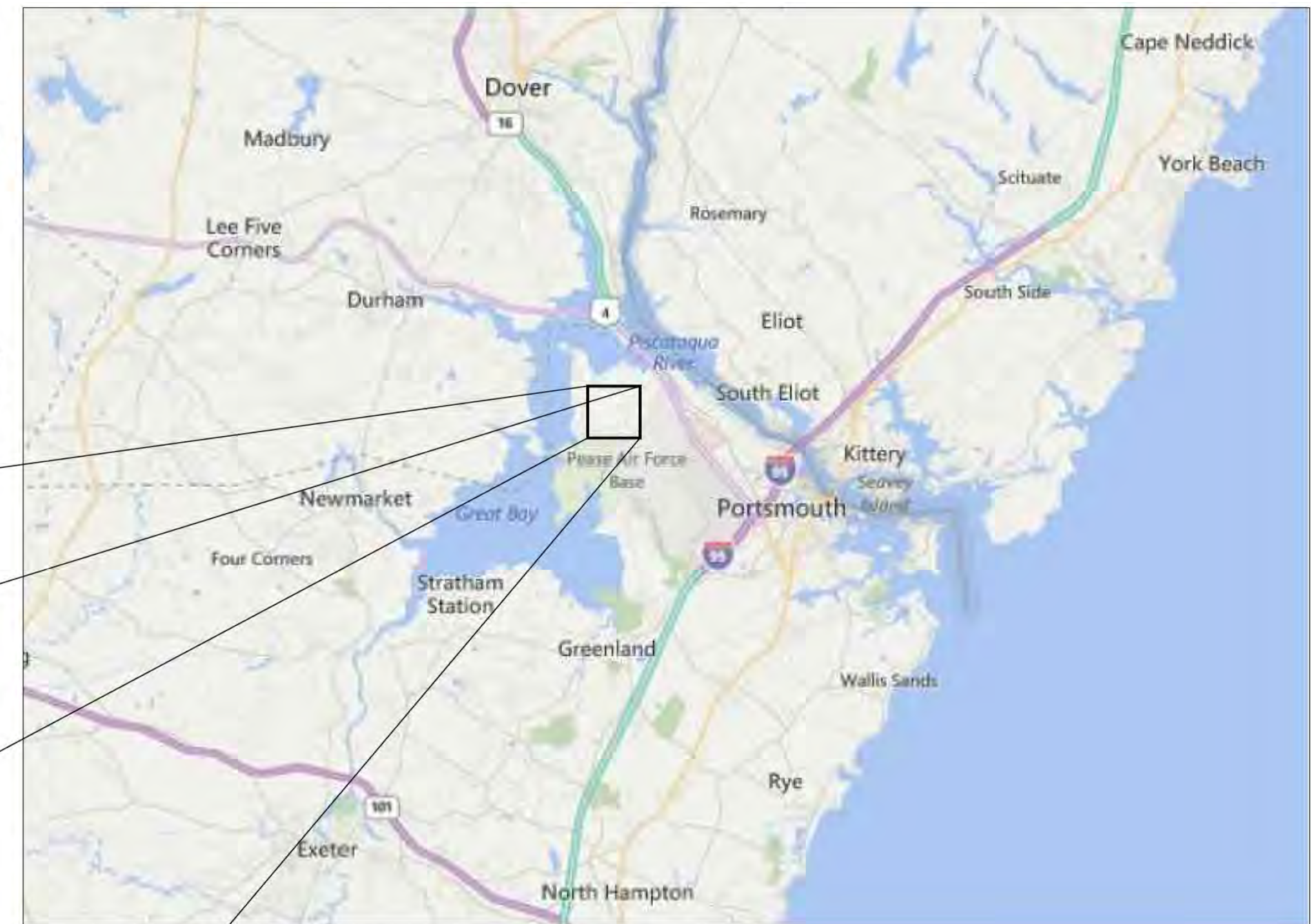
DRAWING MANIFEST			
DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
SHEET 1 OF 6	COVER SHEET, LEGEND, AND DRAWING MANIFEST	13	7-24-18
SHEET 2 OF 6	PLAN AND PROFILE DRAWING STA. 495+00 TO STA. 505+00	13	7-24-18
SHEET 3 OF 6	PLAN AND PROFILE DRAWING STA. 505+00 TO STA. 515+00	13	7-24-18
SHEET 4 OF 6	PLAN AND PROFILE DRAWING STA. 515+00 TO STA. 525+00	13	7-24-18
SHEET 5 OF 6	MISCELLANEOUS DETAILS	12	8-30-17
SHEET 6 OF 6	RISER SWEEP AND TRENCH DAM DETAILS	12	8-30-17

### 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
	DRAIN LINE
	OHW
	UGE
	W
	TELE
	S
	STM
	PD
	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 RADI ARE 500' UNLESS OTHERWISE NOTED

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

POWER ENGINEERS  
PROJECT ENGINEER: TODD GOYETTE

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

POWER ENGINEERS  
PROJECT NUMBER: 133007

PRINT DRAWING TO SCALE ON 22"X34" SHEET



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NOT FOR CONSTRUCTION



NO.	REVISION	DATE	DRWN	CHKD	APPR.
13	ISSUED FOR REVIEW - COORDINATED STATIONING	7-24-18	REG	SOC	TSO
12	REVISED TRANSMISSION STRUCTURES	8-30-17	REG	SOC	TSO
11	REVISED WETLANDS	12-21-18	REG	SOC	TSO
10	REVISED WETLANDS	12-21-18	REG	SOC	TSO
9	REVISED WETLANDS	8-16-18	REG	SOC	TSO
8	REVISED WETLANDS	8-16-18	REG	SOC	TSO
7	ISSUE FOR BID	8-16-18	REG	SOC	TSO

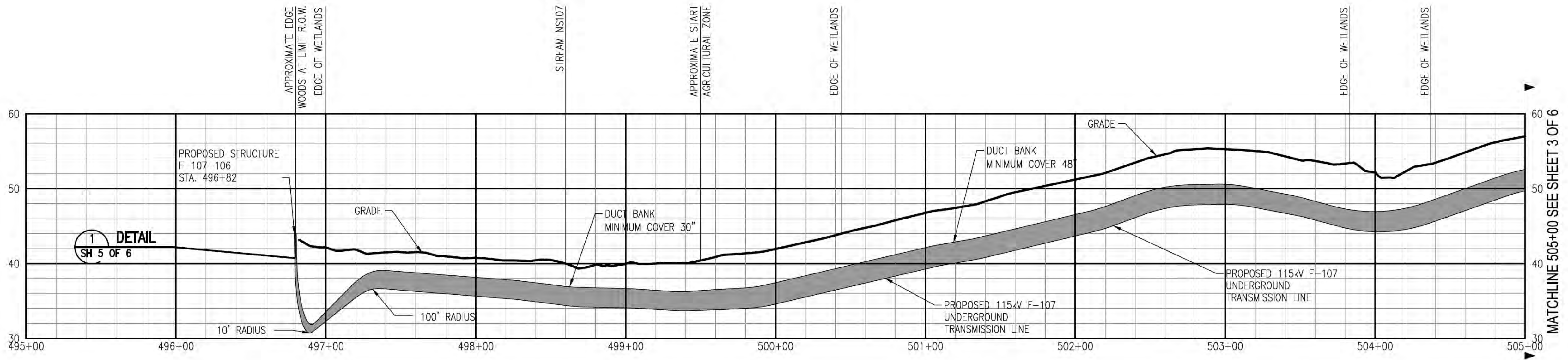
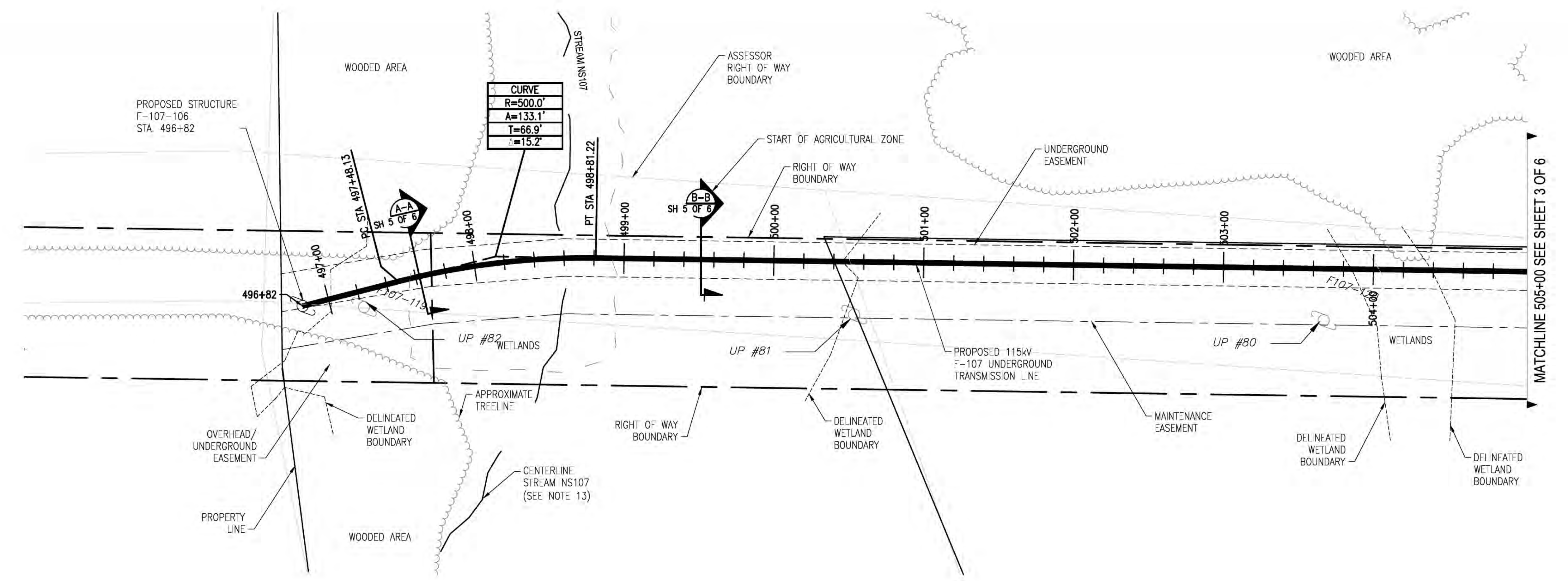
**EVERSOURCE**  
ENERGY

CIRCUIT F-107 115KV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE COVER  
SCALE: N.T.S.  
DATE: 07/24/2018

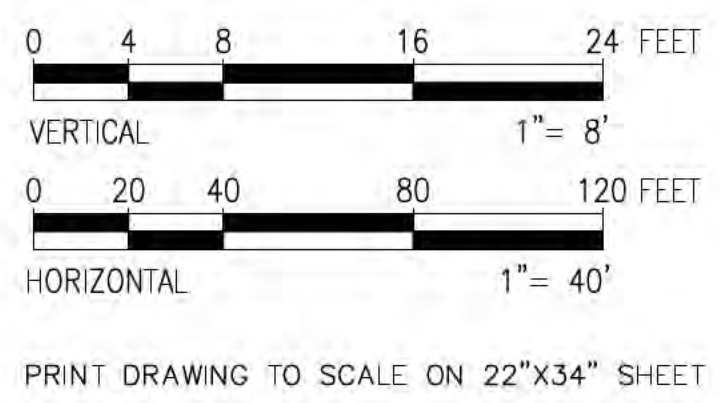
DES. REG	CHKD. TSO
DRW. REG	APPR.
TOWN:	NEWINGTON
TRANSMISSION LINE:	LINE
DISCIPLINE/SHT NO.	10
SHEET	1 OF 6
F10743104	



ES VER: 11/2015  
 7/24/2018 7:19 AM - rosen - E:\Projects\133007\DWG\03 Line\FRM F10743004 REV 13.dwg - SH 2



- 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.
  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 "PSNH RESPONSE TO DES WETLANDS BUREAU NOVEMBER 10, 2016 PROGRESS REPORT," DATED JAN 11, 2017.



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 NOT FOR CONSTRUCTION**

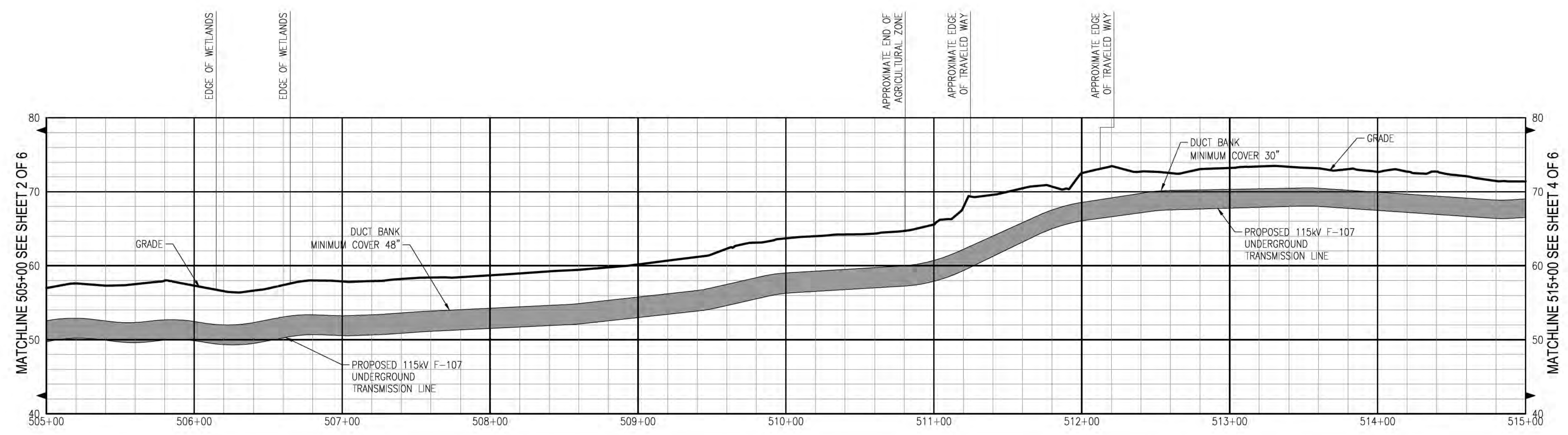
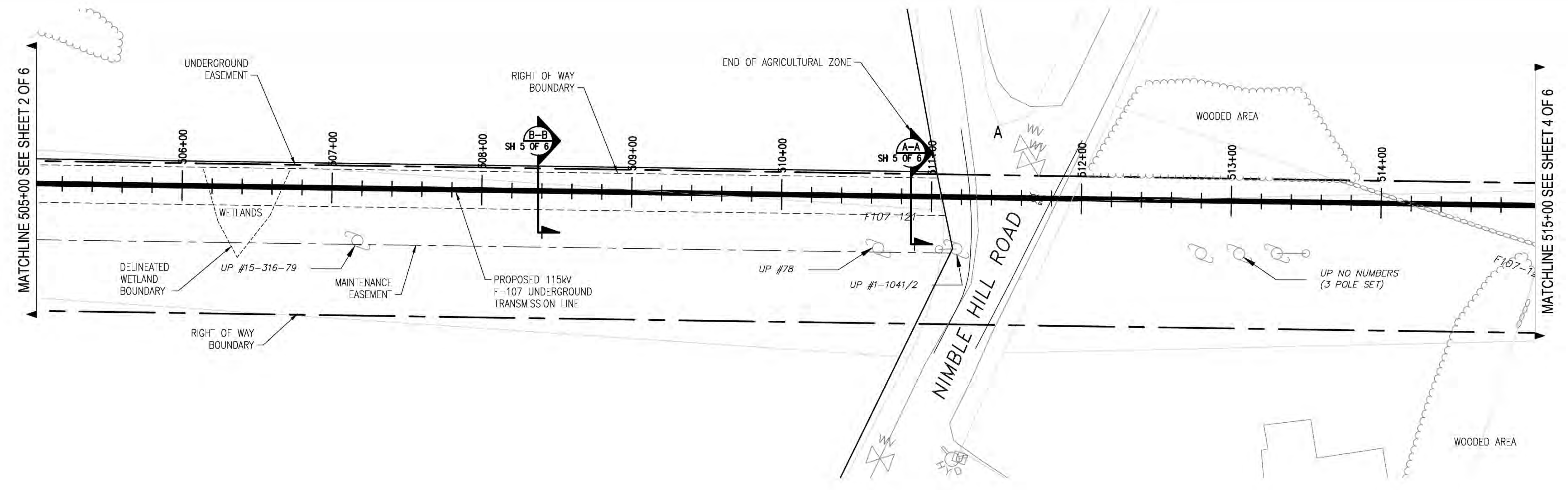


NO.	REVISION	DATE	DRWN	CHKD	APPRV.
13	ISSUED FOR REVIEW - COORDINATED STATIONING	7-24-18	REG	SOO	TSB
12	REVISED TRANSMISSION STRUCTURES	8-30-17	REG	SOO	TSB
11	REVISED WETLANDS	11-21-16	REG	SOO	TSB
10	REVISED WETLANDS	11-21-16	REG	SOO	TSB
9	REVISED SUR DESIGN	8-16-16	REG	SOO	TSB
8	ISSUE FOR BID	8-16-16	REG	SOO	TSB

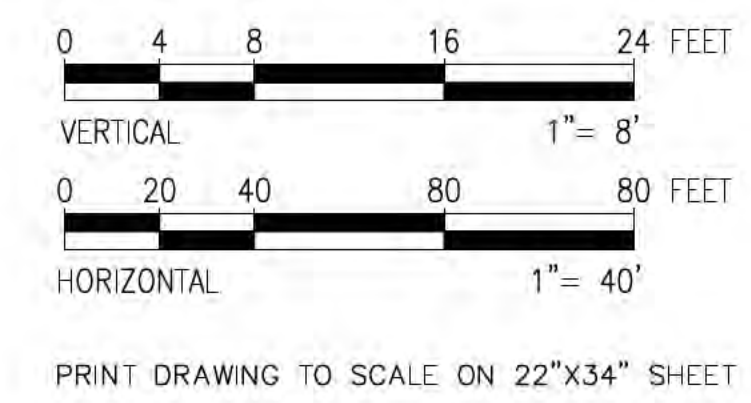
115kV F107 UNDERGROUND TRANSMISSION LINE  
 PLAN AND PROFILE VIEW  
 SCALE: H 1"=40', V 1"=8'  
 DATE: 07/24/2018  
 T 13  
 DES: REG | CHK: TSB  
 DRW: REG | APR: TSB  
 TOWN: NEWINGTON  
 TRANSMISSION LINE: LINE  
 MILE NO: 1.0  
 DISCIPLINE/SIT NO:  
 SHEET 2 OF 6  
 F10743004

**EVERSOURCE  
 ENERGY**





- 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.
  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.



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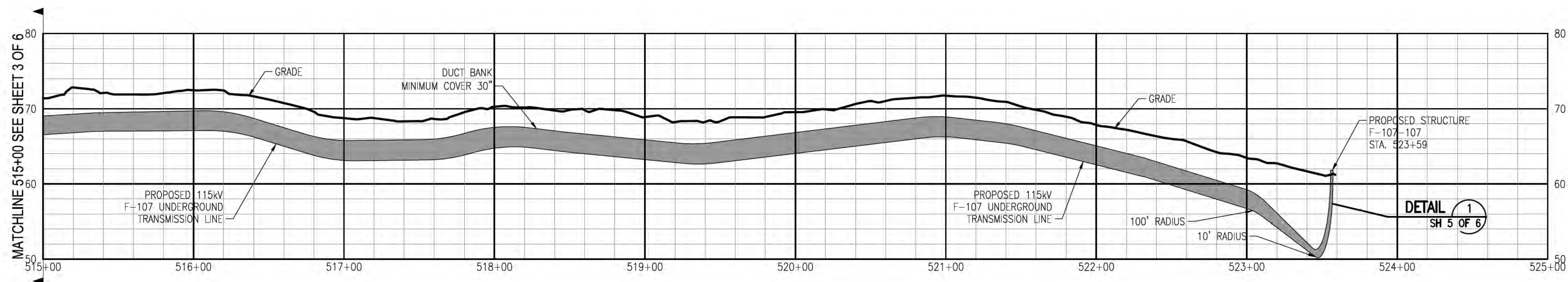
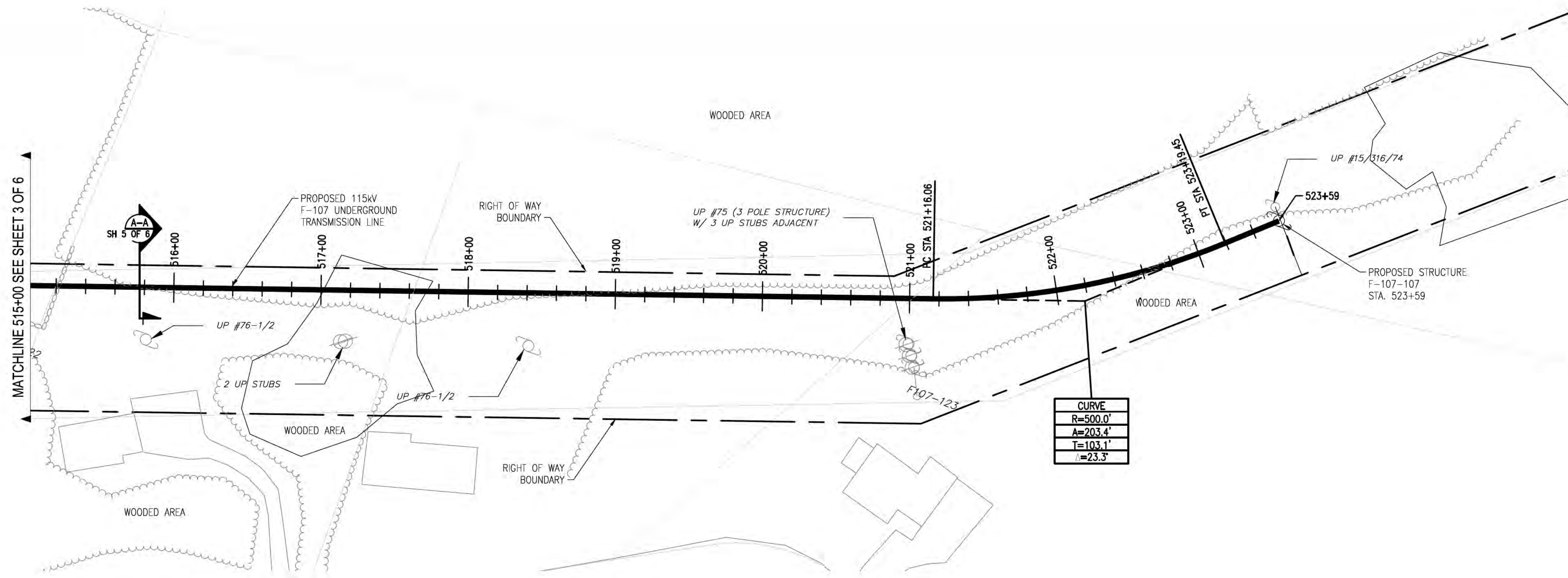
NO.	REVISION	DATE	DRWN	CHKD	APPR.
13	ISSUED FOR REVIEW - COORDINATED STATIONING	7-24-18	REC	SCC	TSB
12	REVISED TRANSMISSION STRUCTURES	8-30-17	REC	SCC	TSB
11	REVISED WETLAND DELINEATED WETLANDS	11-21-16	REC	SCC	TSB
10	REVISED WETLAND DELINEATED WETLANDS	11-21-16	REC	SCC	TSB
9	REVISED SUR DESIGN	8-16-16	REC	SCC	TSB
8	ISSUE FOR BID	8-16-16	REC	SCC	TSB

T 13

CIRCUIT F-107 115KV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW

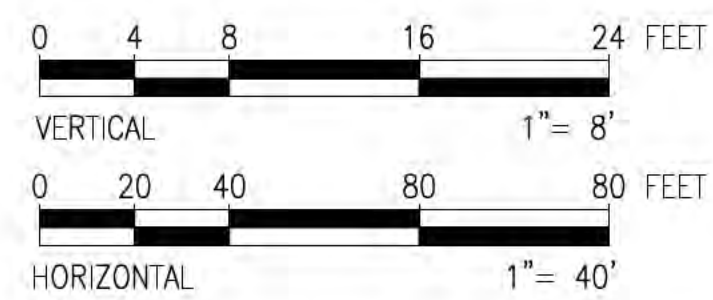
DES. REC. CHKD. TSB  
DRW. REC. APR.  
TOWN: NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 1.0  
DISCIPLINE/SIT NO.  
SHEET 3 OF 6  
F10743004





**General Notes**

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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.



PRINT DRAWING TO SCALE ON 22"x34" SHEET

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ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION



NO.	DATE	REVISION	DRWN	CHKD	APPRV.
13	7-24-18	ISSUED FOR REVIEW - COORDINATED STATIONING			
12	8-30-17	REVISED TRANSMISSION STRUCTURES			
11	11-27-16	REVISED DELINEATED WETLANDS			
10	8-16-16	REVISED SURVEY DESIGN			
9	8-16-16	REVISED SURVEY DESIGN			
8	8-16-16	ISSUE FOR BID			

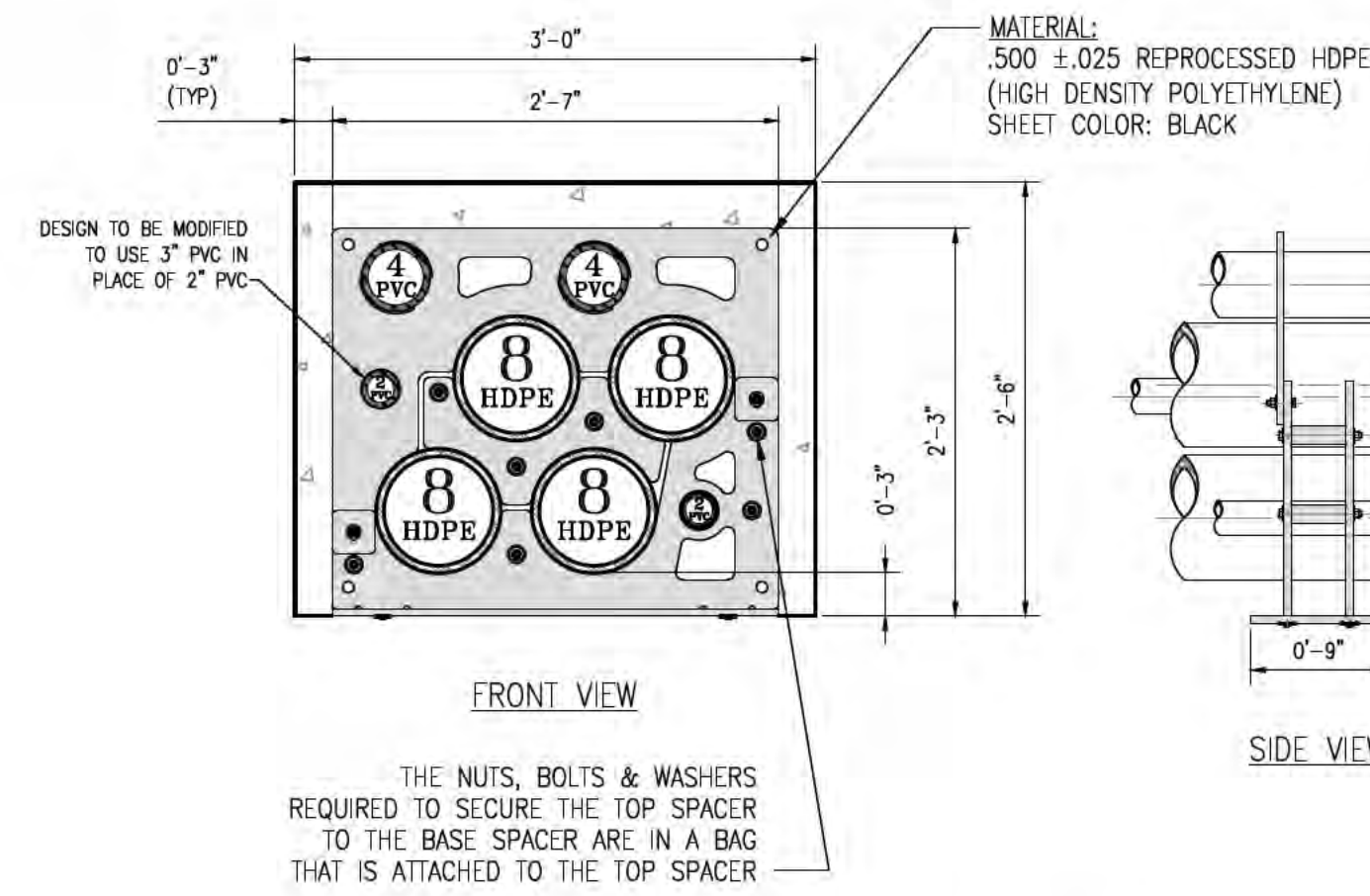
**EVERSOURCE**  
ENERGY

T 13

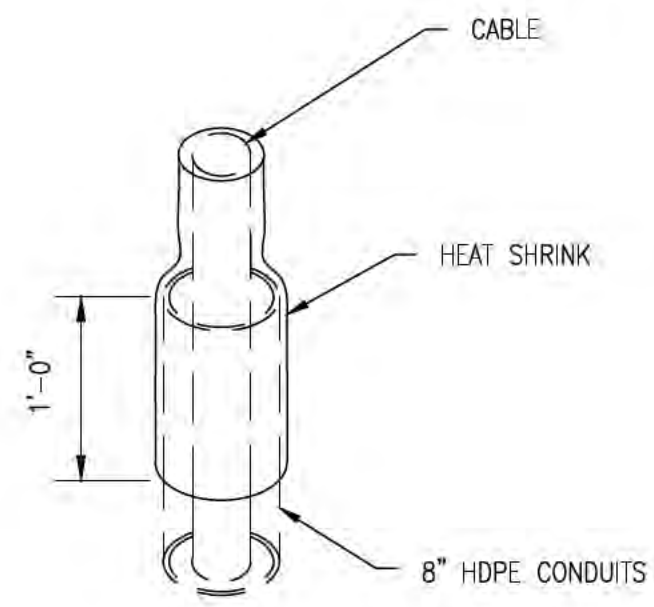
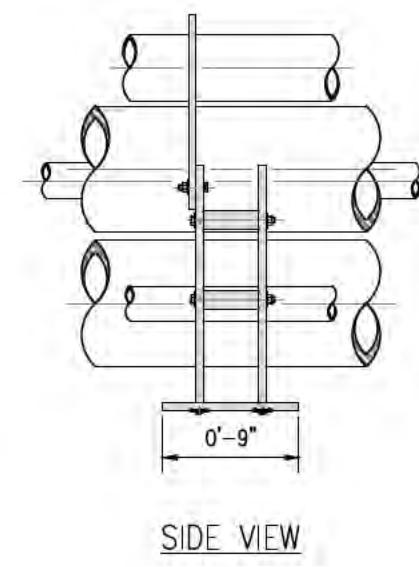
CIRCUIT F107 115kV  
UNDERGROUND TRANSMISSION LINE  
PLAN AND PROFILE VIEW  
SCALE: H 1"=40', V 1"=8'

DES. REG. CHKD. ISO  
DRW. REG. APR.  
TOWN:  
NEWINGTON  
TRANSMISSION LINE:  
LINE  
MILE NO: 1.0  
DISCIPLINE/SIT NO.  
SHEET 4 OF 6  
F10743004

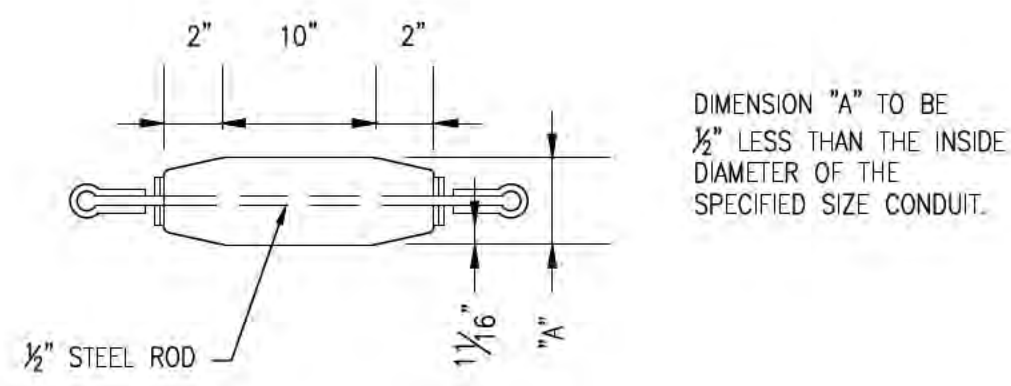




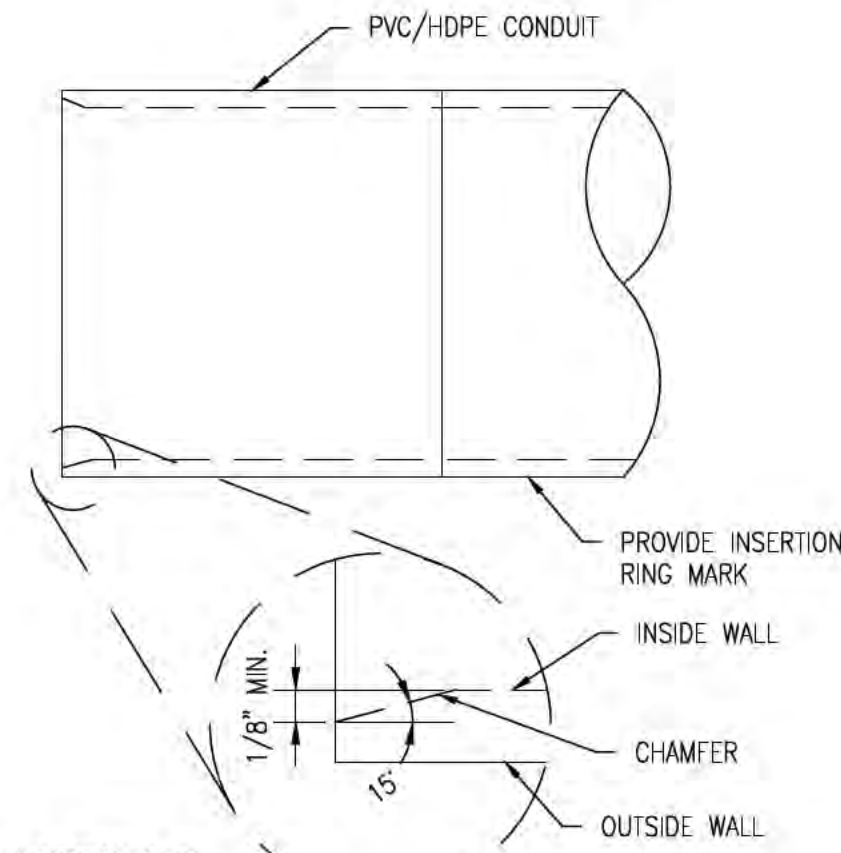
**UNDERGROUND DEVICES SPACER ARRANGEMENT  
DETAIL**  
SCALE: N.T.S. **1**  
SH 5 OF 6



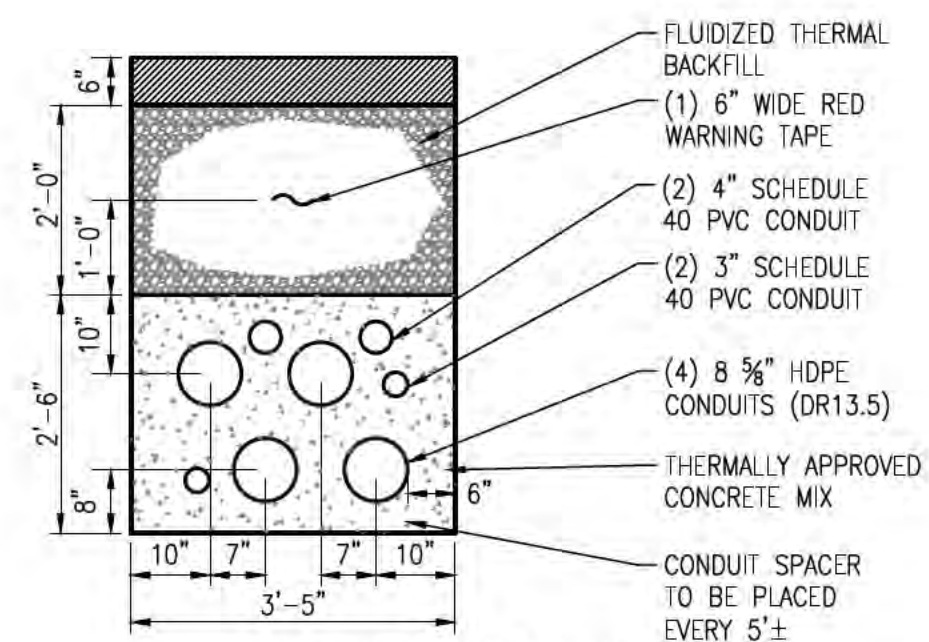
**HEAT SHRINK DETAIL  
DETAIL**  
SCALE: N.T.S. **2**  
SH 5 OF 6



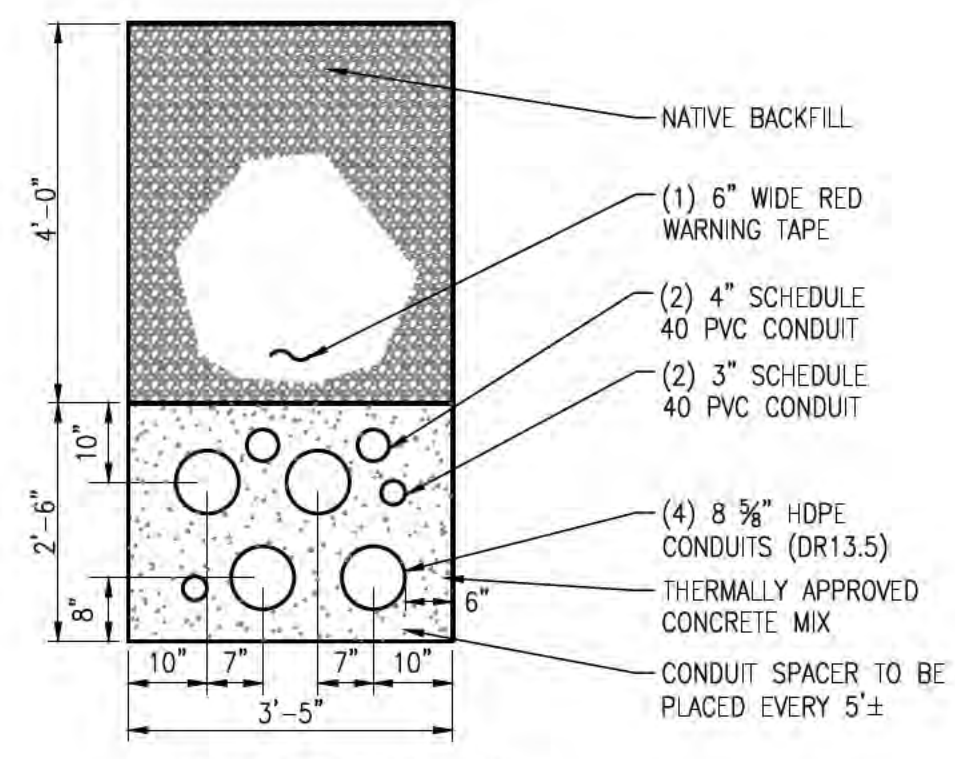
**MANDREL DETAIL  
DETAIL**  
SCALE: N.T.S. **3**  
SH 5 OF 6



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



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



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

ISSUE FOR PERMITTING  
NOT FOR CONSTRUCTION



NO.	REVISION	DATE	DRWN	CHKD	APPRV.
12	REVISED TRANSITION STRUCTURES	6-30-17	REG	SOO	TSB
11	REVISED 70% - ADDED DELINEATED WETLANDS	5-15-17	REG	SOO	TSB
10	REVISED 70% - ADDED DELINEATED WETLANDS	12-27-16	REG	SOO	TSB
9	REVISED 70% - ADDED DELINEATED WETLANDS	8-16-16	REG	SOO	TSB
8	ISSUE FOR BID	8-16-16	REG	SOO	TSB
7	REVISED RISER 108 LOCATION PER ENFORCEMENT	6-24-16	REG	SOO	TSB

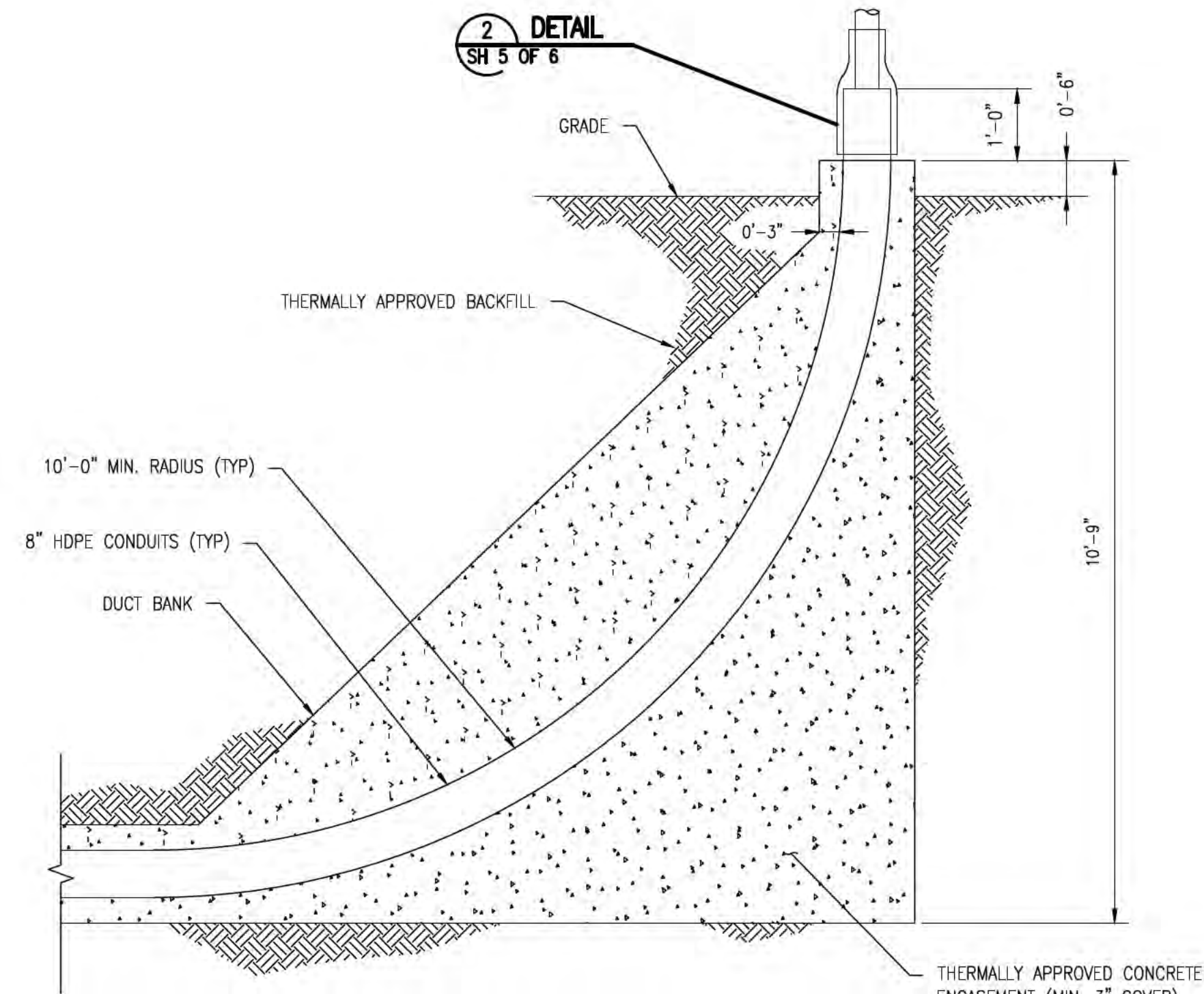
  

DES. REG	CHKD	NO.
DRW. REG	APPR.	NO.
CIRCUIT F-107 115KV UNDERGROUND TRANSMISSION LINE MISCELLANEOUS DETAILS		
DATE: 07/24/2015		
SCALE: N.T.S.		
SHEET 5 OF 6		
F10743004		

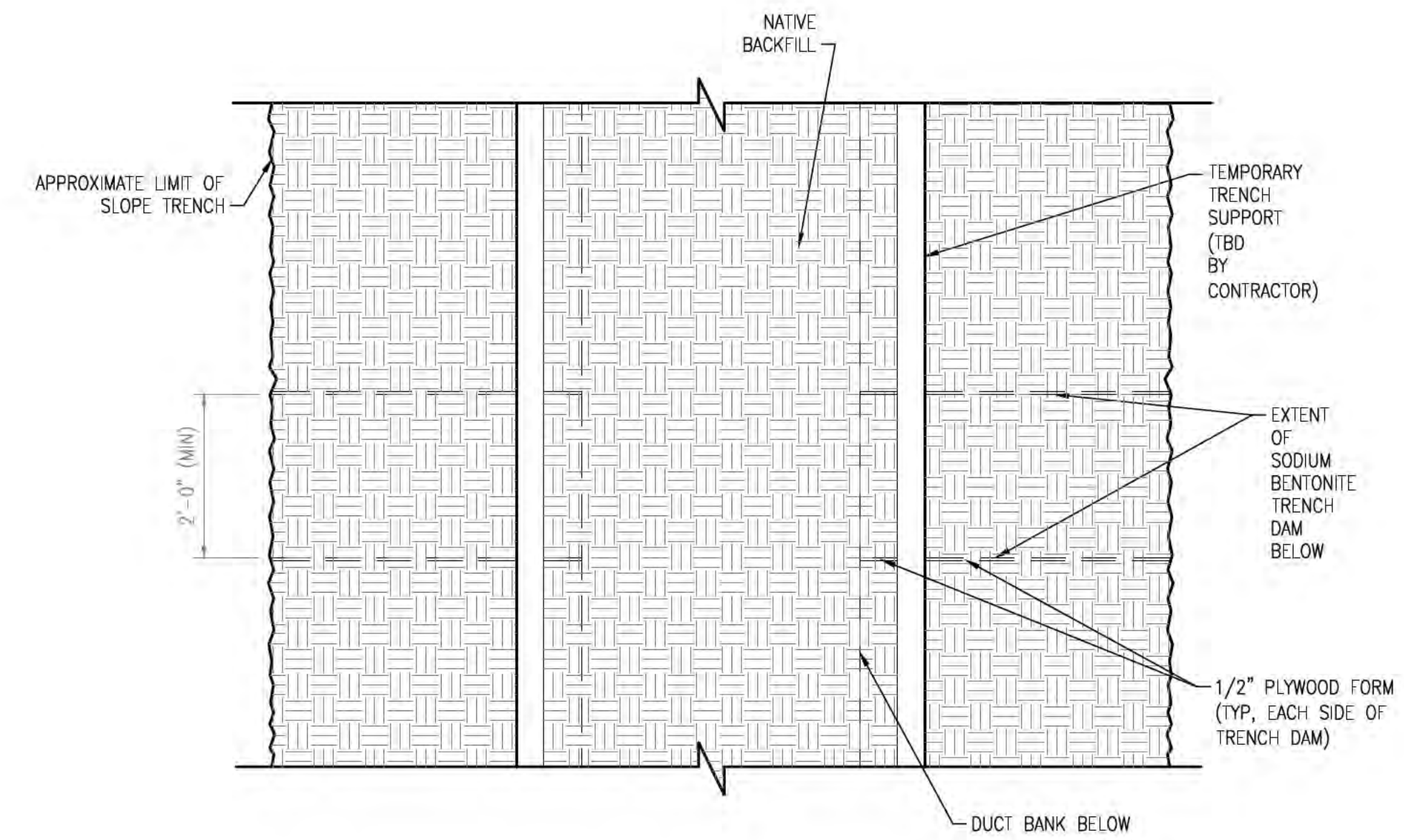
**EVERSOURCE**  
ENERGY

T 12



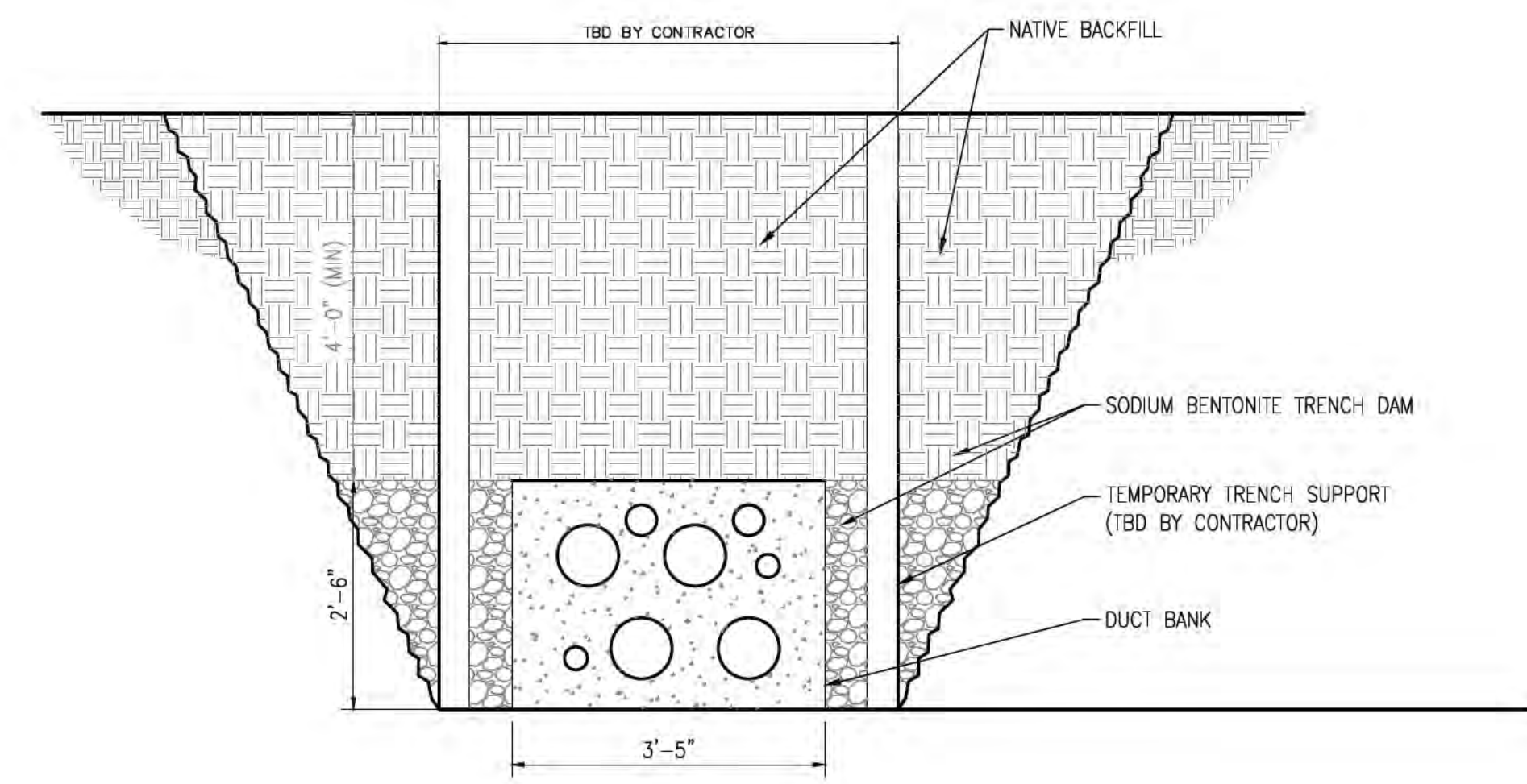


**RISER SWEEP DETAIL**  
**DETAIL**  
 SCALE N.T.S. **1**  
 SH 6 OF 6



**PLAN**

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



**PROFILE**

NOTE:  
 1. PLACE BENTONITE BETWEEN DUCT BANK AND TRENCH SUPPORT AND BETWEEN TRENCH SUPPORT AND TRENCH SIDEWALLS.  
 2. SEE F107 LINE CROSSING FRNK 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

ISSUE FOR PERMITTING  
 NOT FOR CONSTRUCTION



PRINT DRAWING TO SCALE ON 22"x34" SHEET

NO.	REVISION	DATE	DRWN	CHKD	APPRV.
12	REVISED TRANSITION STRUCTURES	6-30-17	REG	SOS	TSB
11	REVISED ZONE - ADDED DELINEATED WETLANDS	5-15-17	REG	SOS	TSB
10	REVISED DUCT BANK	12-27-16	REG	SOS	TSB
9	REVISED DAM DESIGN	8-16-16	REG	SOS	TSB
8	ISSUE FOR BID	8-16-16	REG	SOS	TSB
7	REVISED RISER FOR LOCATION PER EXHIBIT	6-24-16	REG	SOS	TSB

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

DES. REG	CHKD	ISS
DRW. REG	JAPR	
TOWN:	NEWINGTON	
TRANSMISSION LINE:	LINE	
MILE NO:	10	
DISCIPLINE/SHT NO.		
SHEET	6 OF 6	
F10743004		





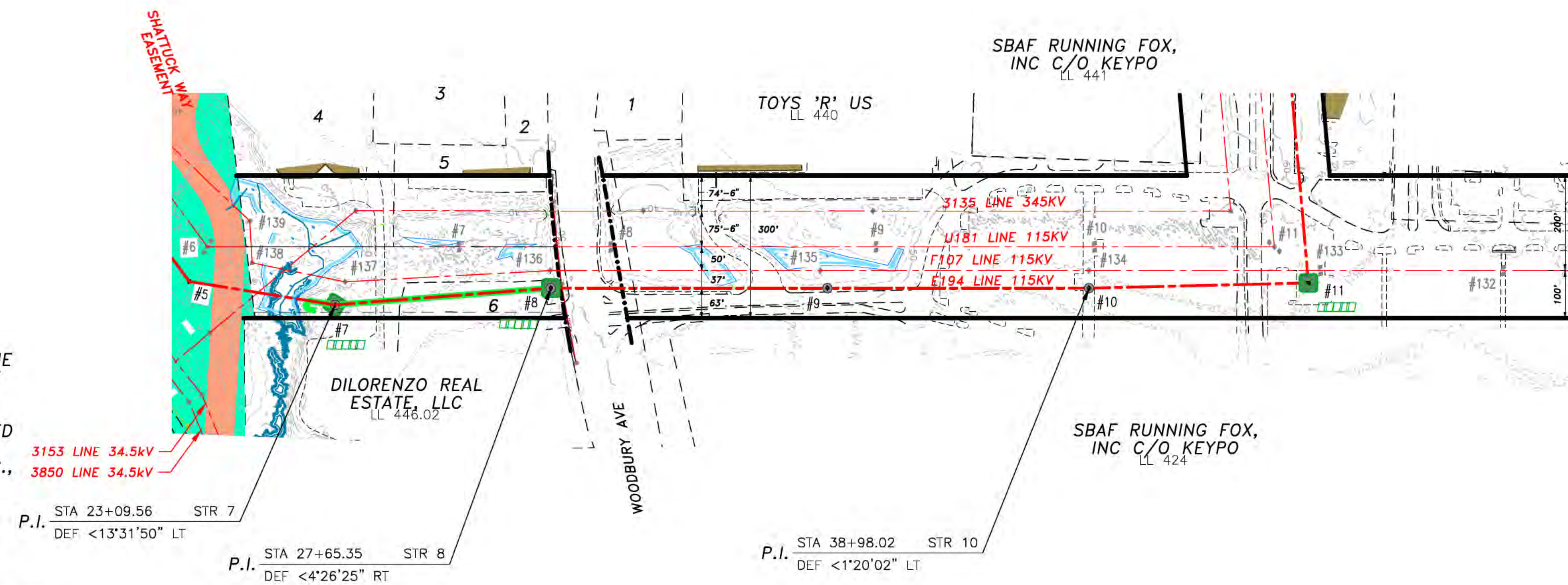
- PARCELS:**
1. CUMBERLAND FARMS, INC, LL 442
  2. RPI NEWINGTON REALTY, LLC, LL 443
  3. HALLETT TRUSTEE, RICHARD S., LL 444
  4. SYLVIA H. MARPLE REVOC TRUST, LL 445
  5. PUBLIC SERVICE COMPANY OF NH, LL 432
  6. DILORENZO REAL ESTATE, LLC, LL 446

- 1590 ACSR 45/7 LAPWING @ 4,200 LBS. NESC HEAVY, 285°F ADSS @ 1,100 LBS. NESC HEAVY, 120°F (STR 5 TO STR 7)
- 1590 ACSR 45/7 LAPWING @ 11,400 LBS. NESC HEAVY, 285°F
- 24 FIBER OPGW @ 4,500 LBS. NESC HEAVY, 120°F (STR 7 TO STR 11)
- 19 NO. 10 ALUMOWELD @ 4,200 LBS. NESC HEAVY, 120°F (STR 10 TO STR 11)

- NOTES:**
1. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  2. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  3. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

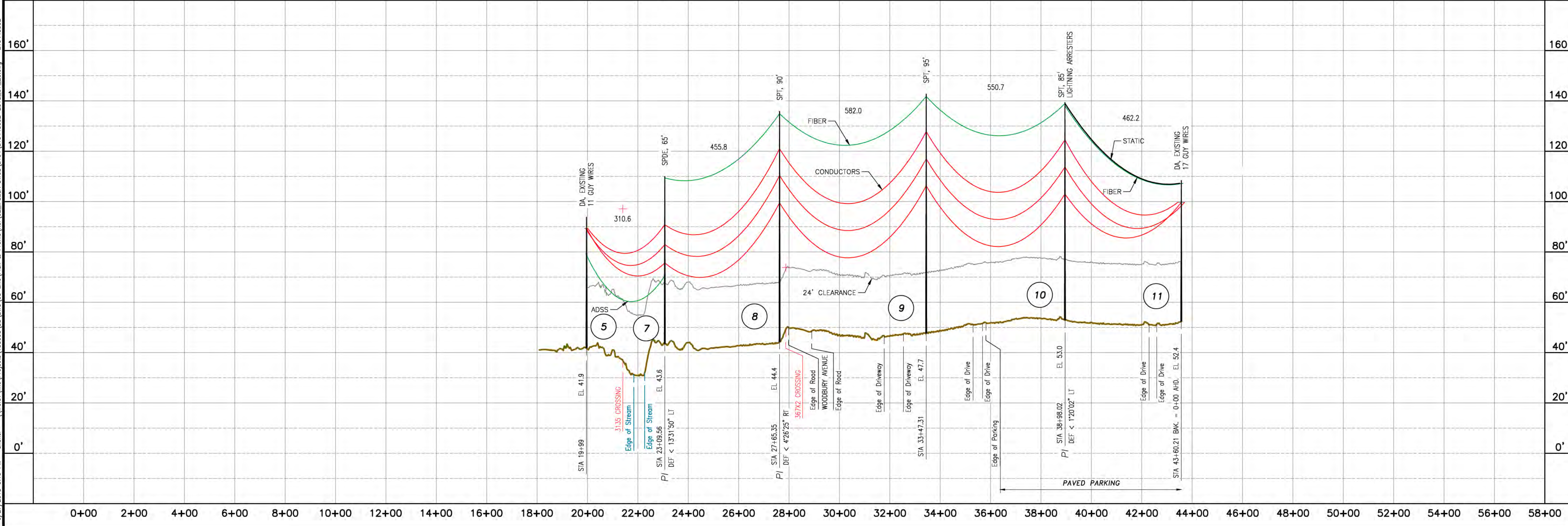
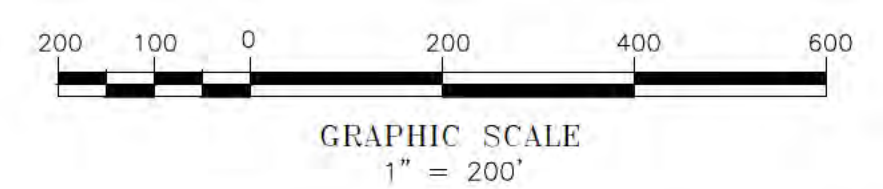
### E194 PLAN AND PROFILE LEGEND:

	FENCE		RIGHT OF WAY LINE
	STONEWALL		DENOTES TAX MAP BOUNDARY LINE
	LIMITS OF WET		DENOTES LINE COUNTERPOISE
	EDGE OF WET DELINEATION		BUILDINGS
	TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS		FEE PROPERTY
	TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS		FIBER OPTIC SPLICE LOCATION
	UNDERGROUND WATER LINE		E194 STRUCTURE
	UNDERGROUND GAS LINE		E194 STRUCTURE IN WET



RULING SPAN = 311' (STR 5 TO STR 7)

RULING SPAN = 521' (STR 7 TO STR 11)



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC AMENDMENT	08/09/18	SCF	KMS	APJ
3	ISSUED FOR SEC AMENDMENT	08/29/17	SCF	KMS	APJ
4	ISSUED FOR DOE REVIEW	04/27/17	SCF	KMS	APJ
5	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
6	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
7	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
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35	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
36	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
37	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
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99	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ
100	ISSUED FOR SEC AMENDMENT	01/10/17	SCF	KMS	APJ

# EVERSOURCE ENERGY

E194 LINE STR 5 TO STR 11  
115kV TRANSMISSION LINE  
MILE SHEET

DES: EDR CHICKS  
DRAW: SCF APR-APJ

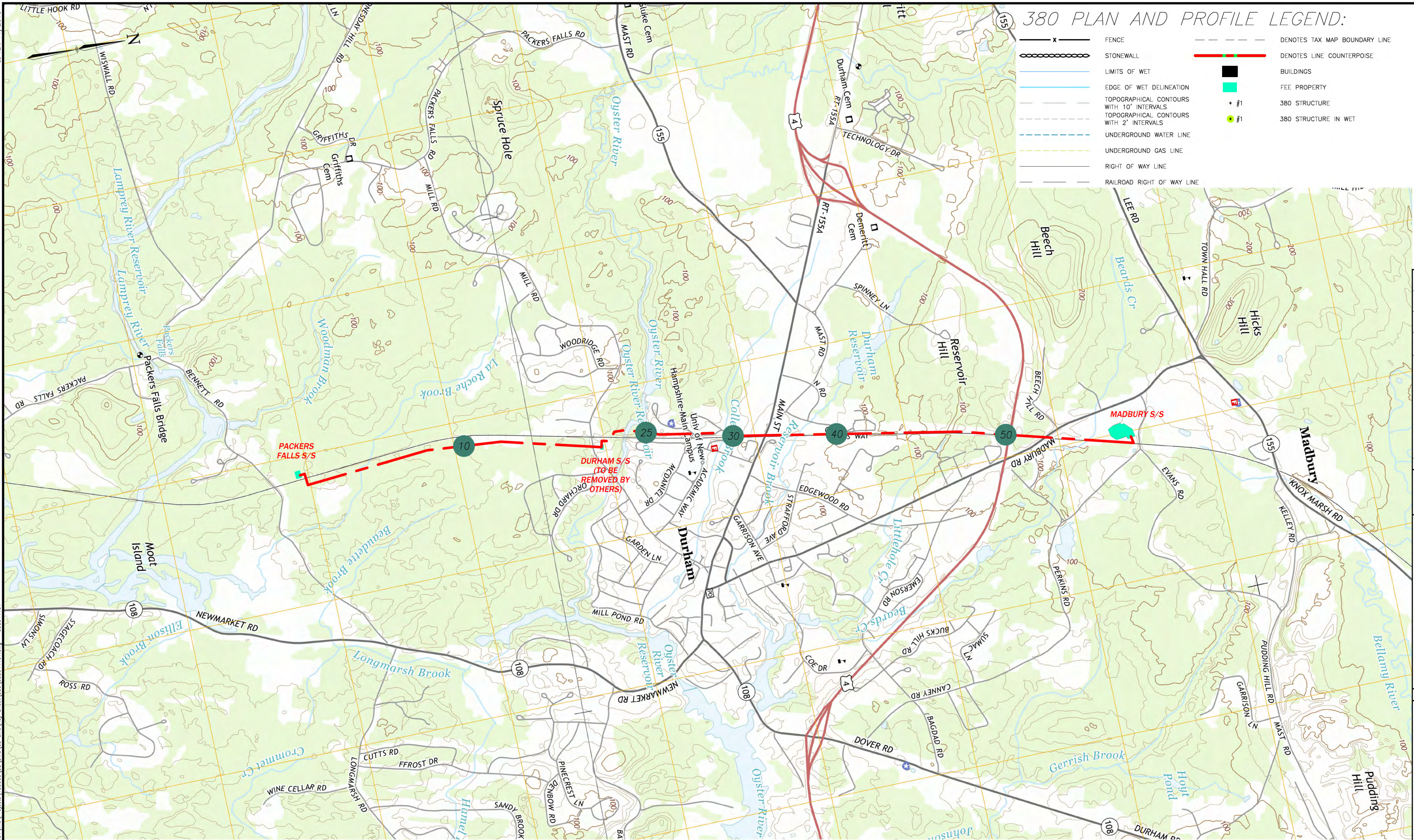
TOWN: NEWINGTON  
TRANSMISSION LINE: E194  
MILE NO: 1  
DISCIPLINE/SHT NO.

DATE: 08/03/2018  
SCALE: H: 1"=200', V: 1"=20'

SHEET 1 OF 1  
E19443002



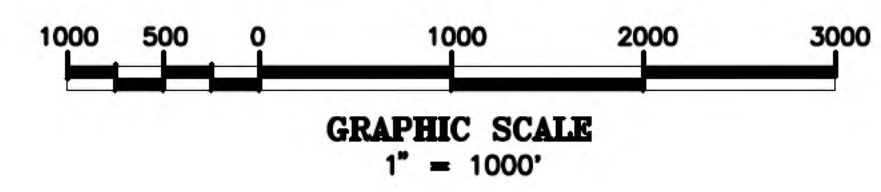
7/26/2018 9:12 AM - slisher - \\fres\line\Projects\133005\DD\DWG\03\_Line\_Keys\_Sheet\_380\038044101.dwg - 038044101



380 PLAN AND PROFILE LEGEND:

- FENCE
- DENOTES TAX MAP BOUNDARY LINE
- STONEWALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- 380 STRUCTURE
- 380 STRUCTURE IN WET

- LEGEND:**
- 380 LINE
  - 380 STRUCTURE NUMBER
  - INDICATES APPROXIMATE LIMITS OF SUBSTATION



NO.	REVISION	DATE	BY	CHKD	APPR.
E	ISSUED FOR SEC AMENDMENT	07/27/18	SCF	KMS	APU
D	UPDATED LEGEND	02/09/18	SCF	KMS	APU
C	ISSUED FOR BID	02/09/18	SCF	KMS	APU
B	ISSUED FOR BID	02/09/18	SCF	KMS	APU
A	ISSUED FOR 100% REVIEW	02/09/18	SCF	KMS	APU

**EVERSOURCE ENERGY**

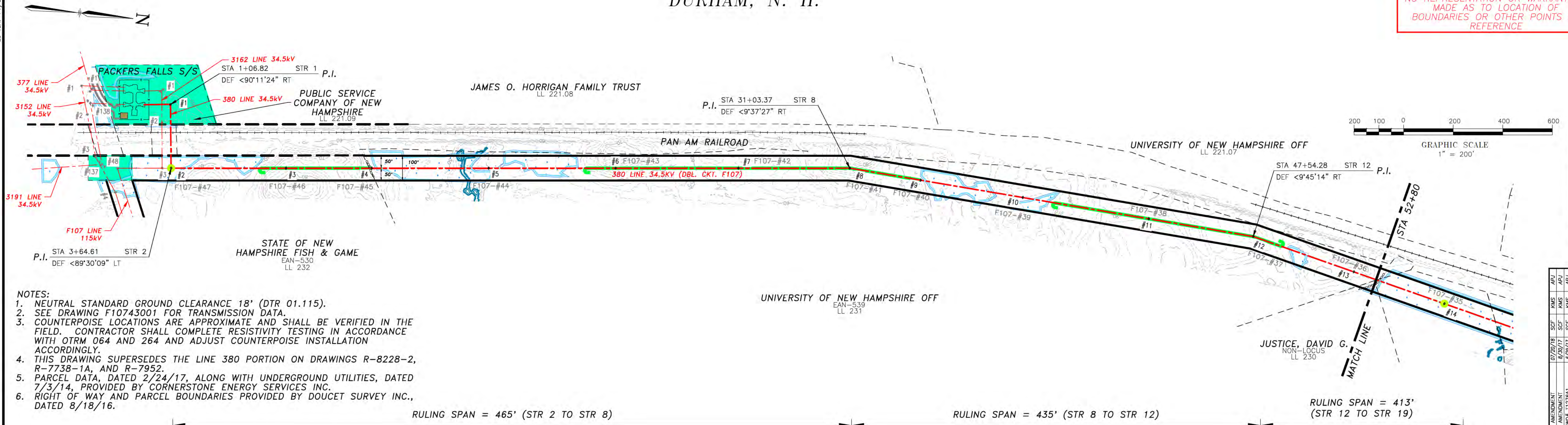
PACKERS FALLS S/S TO MADBURY S/S  
34.5kV TRANSMISSION LINE  
KEYSHEET  
SCALE: 1"=1000'  
DATE: 07/26/18  
SHEET 1 OF 1  
038044101



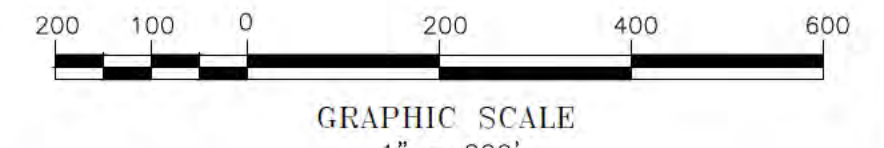
7/19/2018 4:49 PM - sfisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Plan\_02\_ISSCA\_DWG\380\_038044001 - ISSCA-2018.07\_20.dwg - 038044001.1-4

DURHAM, N. H.

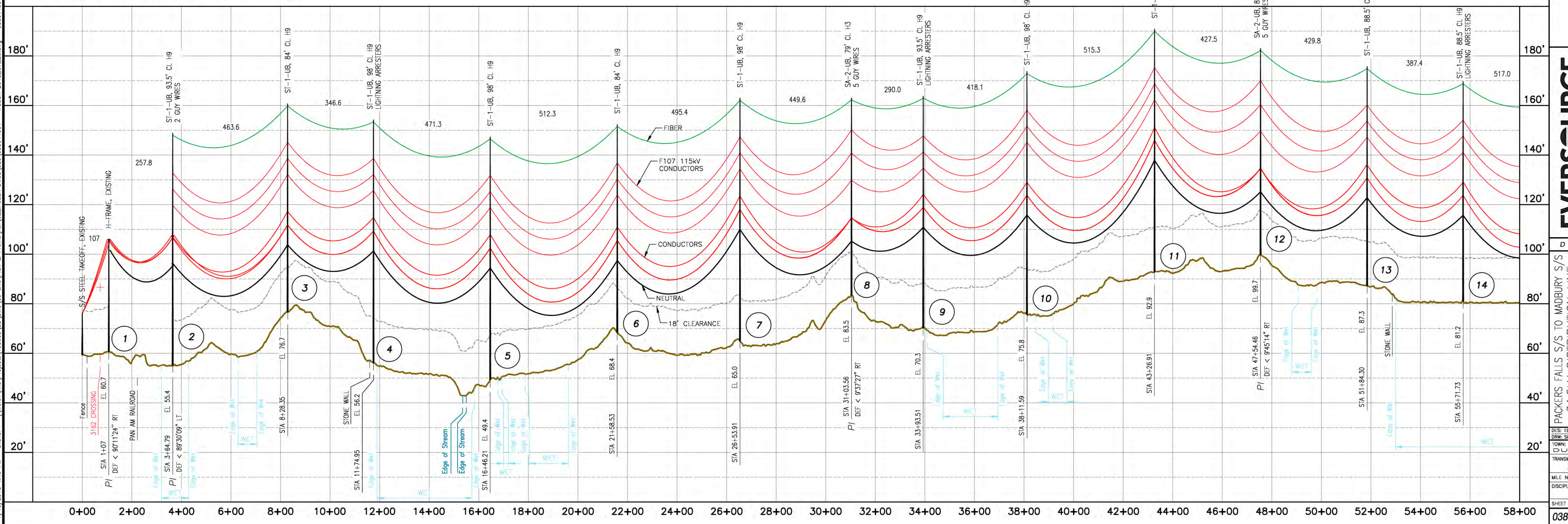
THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



- NOTES:**
1. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 01.115).
  2. SEE DRAWING F10743001 FOR TRANSMISSION DATA.
  3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  4. THIS DRAWING SUPERSEDES THE LINE 380 PORTION ON DRAWINGS R-8228-2, R-7738-1A, AND R-7952.
  5. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  6. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.



795 ACSR 26/7 DRAKE @ 4,500 LBS. NESC HEAVY, 212F  
4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120F



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR BID W/11/27/201	8/29/17	SCF	KMS	APJ
3	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
4	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
5	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
6	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
7	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
8	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
9	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
10	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
11	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
12	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
13	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ
14	ISSUED FOR 70% REVIEW W/11/27/201	07/10/17	SCF	KMS	APJ

**EVERSOURCE ENERGY**

PACKERS FALLS S/S TO MADBURY S/S  
34.5kV DISTRIBUTION LINE  
MILE SHEET  
DATE: 08/03/2018  
SCALE: H: 1"=200', V: 1"=20'  
SHEET 1 OF 4  
038044001







ES: MER. 11/2015  
7/19/2018 4:49 PM - sfisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Plan & Profile\Plan\_03\_Line\DWG\03\_Line\DWG\0380\0380-2018\_07\_20.dwg - 038044001\_3-4

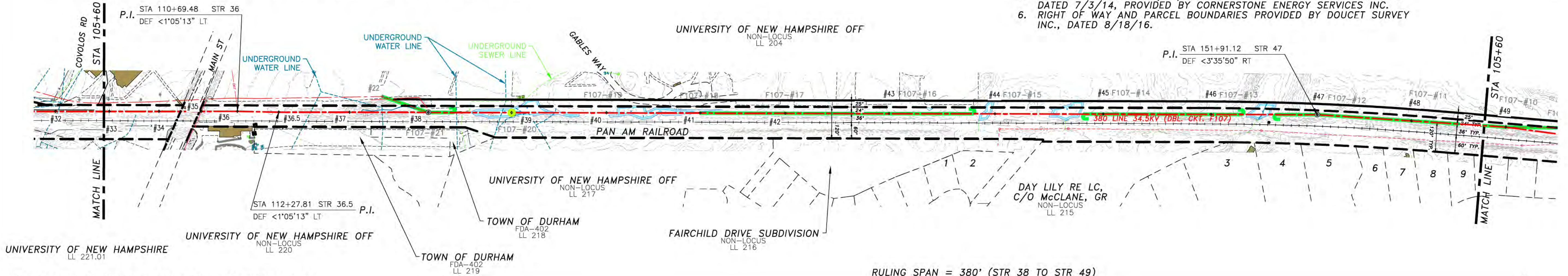
# DURHAM, N. H.

- PARCELS:**
1. GAROFALO, PIERO G. & DUBOIS-GAR, LL 216.02
  2. KARL A. VAN ASSELT LIV REV TRUST, LL 216.01
  3. PETER M. EJARQUE REVOCABLE TRUST, NON-LOCUS LL 214
  4. CORVINI, MARGUERITE, NON-LOCUS LL 213
  5. GIROUX, DAVID L. & BROWN, GRET, NON-LOCUS LL 212
  6. O'SHEA, KEVIN M. & LEIGHS A., NON-LOCUS LL 211
  7. VASILE, THOMAS & KATHLEEN K., NON-LOCUS LL 210
  8. LUFT, KAROLA, NON-LOCUS LL 209
  9. SKOTKO, BRADLEY & SMITH, HEATHE, NON-LOCUS LL 208

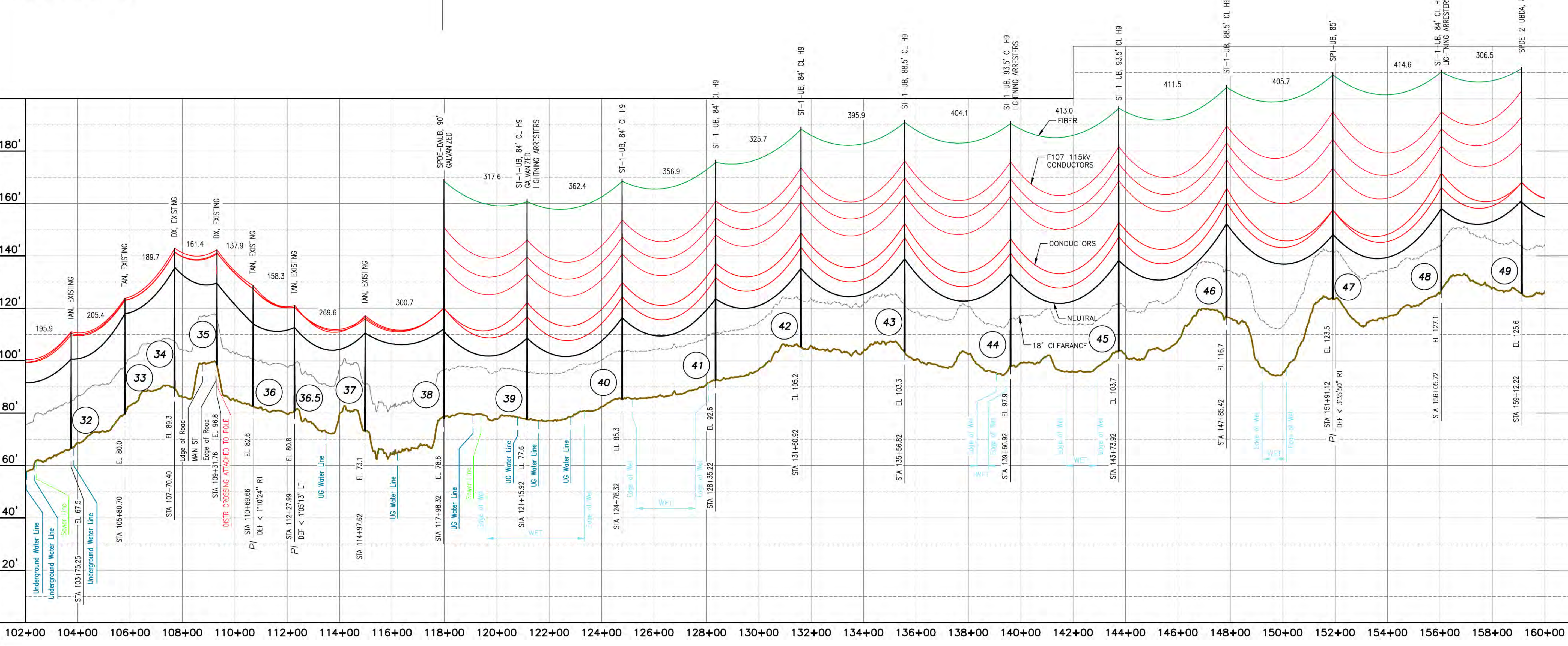
- NOTES:**
1. NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 01.115).
  2. SEE DRAWING F10743001 FOR TRANSMISSION DATA.
  3. COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  4. THIS DRAWING SUPERSEDES THE LINE 380 PORTION ON DRAWINGS R-8228-2, R-7738-1A, AND R-7952.
  5. PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  6. RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

THIS PLAN FOR REFERENCE ONLY.  
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BOUNDARIES OR OTHER POINTS OF  
REFERENCE

GRAPHIC SCALE  
1" = 200'



795 ACSR 26/7 DRAKE @ 4,500 LBS. NESC HEAVY, 212'F  
4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120'F  
(STR 38 TO STR 50)  
336.4 KCMIL 18/1 MERLIN  
(STR 27.5 TO STR 38)



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	08/29/17	SCF	KMS	APJ
3	ISSUED FOR BID WOJ 11276A1	02/29/17	SCF	KMS	APJ
4	ISSUED FOR SEC. AMENDMENT	11/27/16	SCF	KMS	APJ
5	ISSUED FOR SEC. AMENDMENT	01/07/17	SCF	KMS	APJ
6	ISSUED FOR 70% REVIEW WOJ 11276A1	11/08/16	SCF	KMS	APJ
7	REVISION		DRWN	CHKD	APPV.

DATE: 08/02/2018  
SCALE: H: 1"=200', V: 1"=20'

**EVERSOURCE ENERGY**

PACKERS FALLS S/S TO MADBURY S/S  
34.5KV DISTRIBUTION LINE  
MILE SHEET

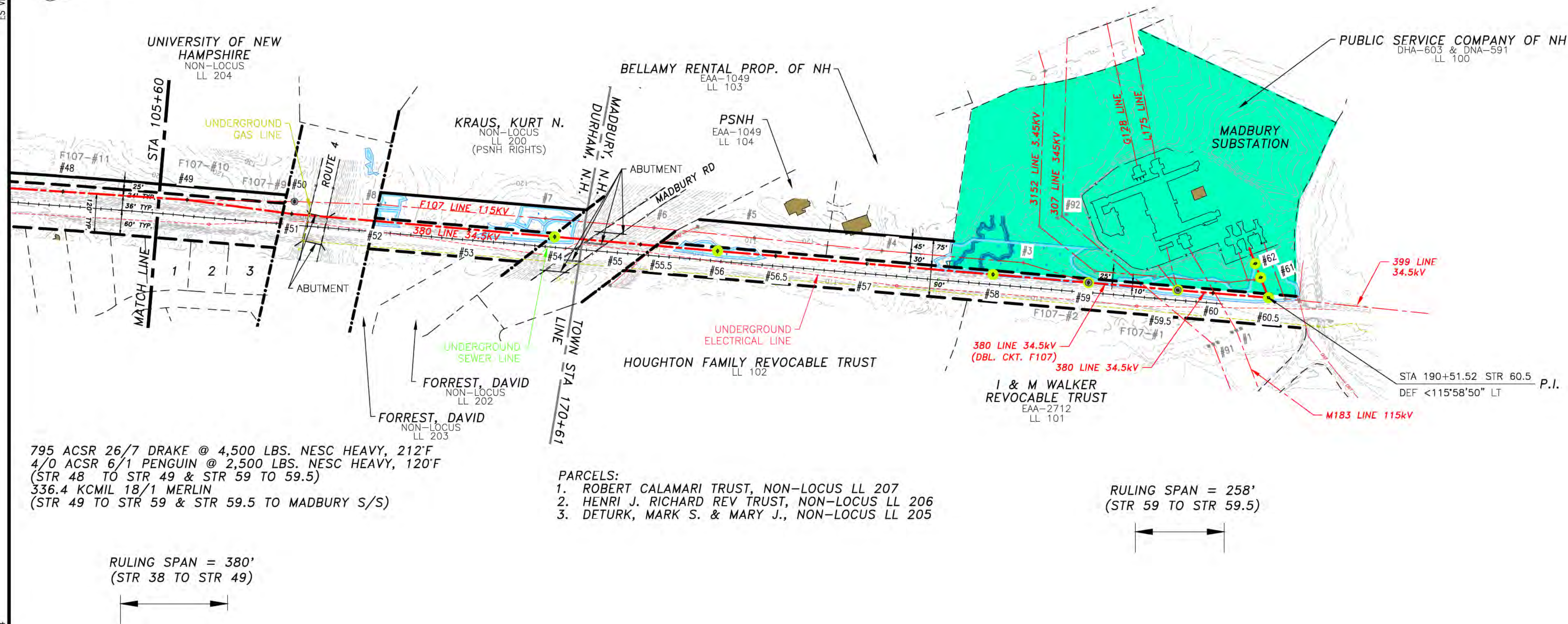
TOWN: DURHAM  
TRANSMISSION LINE: 380  
MILE NO: 3  
DISCIPLINE/SHT NO.

SHEET 3 OF 4  
038044001

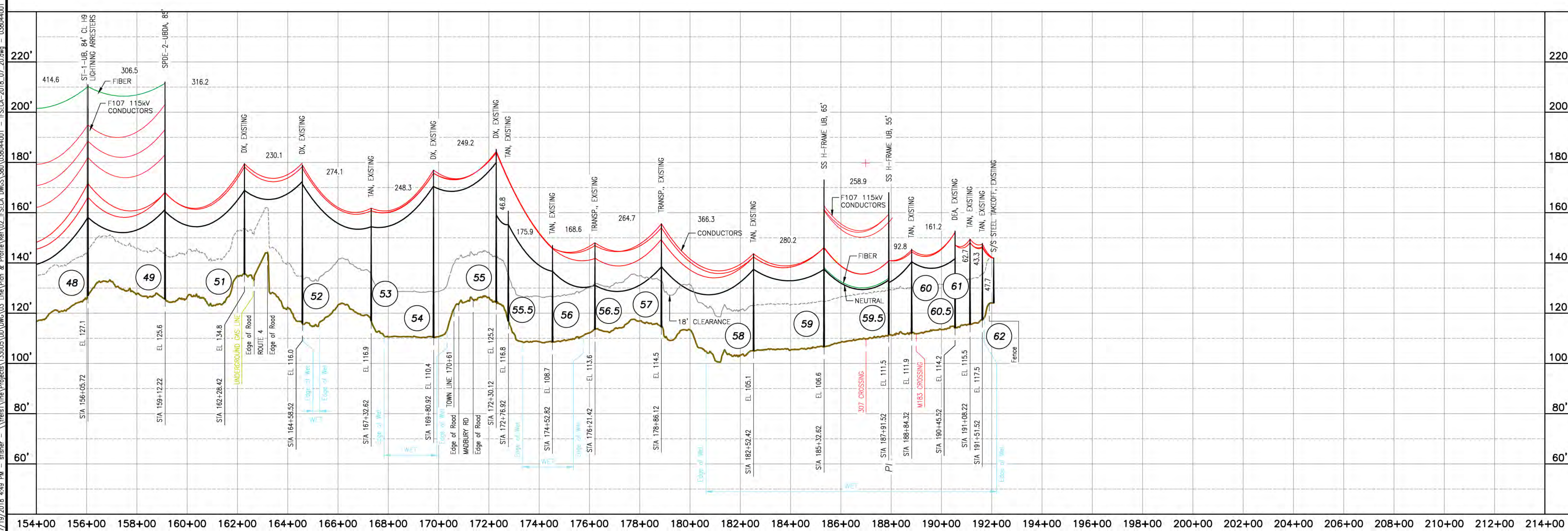
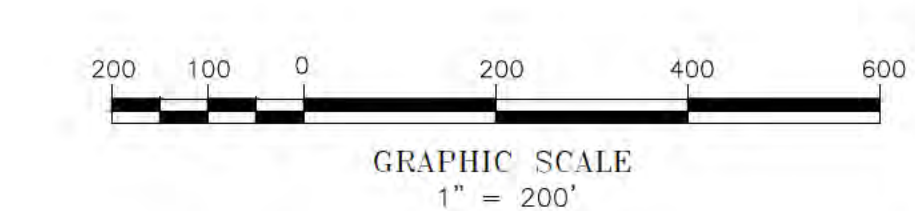


# DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



- NOTES:
- NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 01.115).
  - SEE DRAWING F10743001 FOR TRANSMISSION DATA.
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - THIS DRAWING SUPERSEDES THE LINE 380 PORTION ON DRAWINGS R-8228-2, R-7738-1A, AND R-7952.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	8/29/17	SCF	KMS	APJ
3	ISSUED FOR BID W/11/27/16	8/29/17	SCF	KMS	APJ
4	ISSUED FOR SEC. AMENDMENT	01/10/17	SCF	KMS	APJ
5	ISSUED FOR 70% REVIEW W/11/27/16	01/10/17	SCF	KMS	APJ
6	ISSUED FOR 70% REVIEW W/11/27/16	11/08/16	SCF	KMS	APJ
7	REVISION				

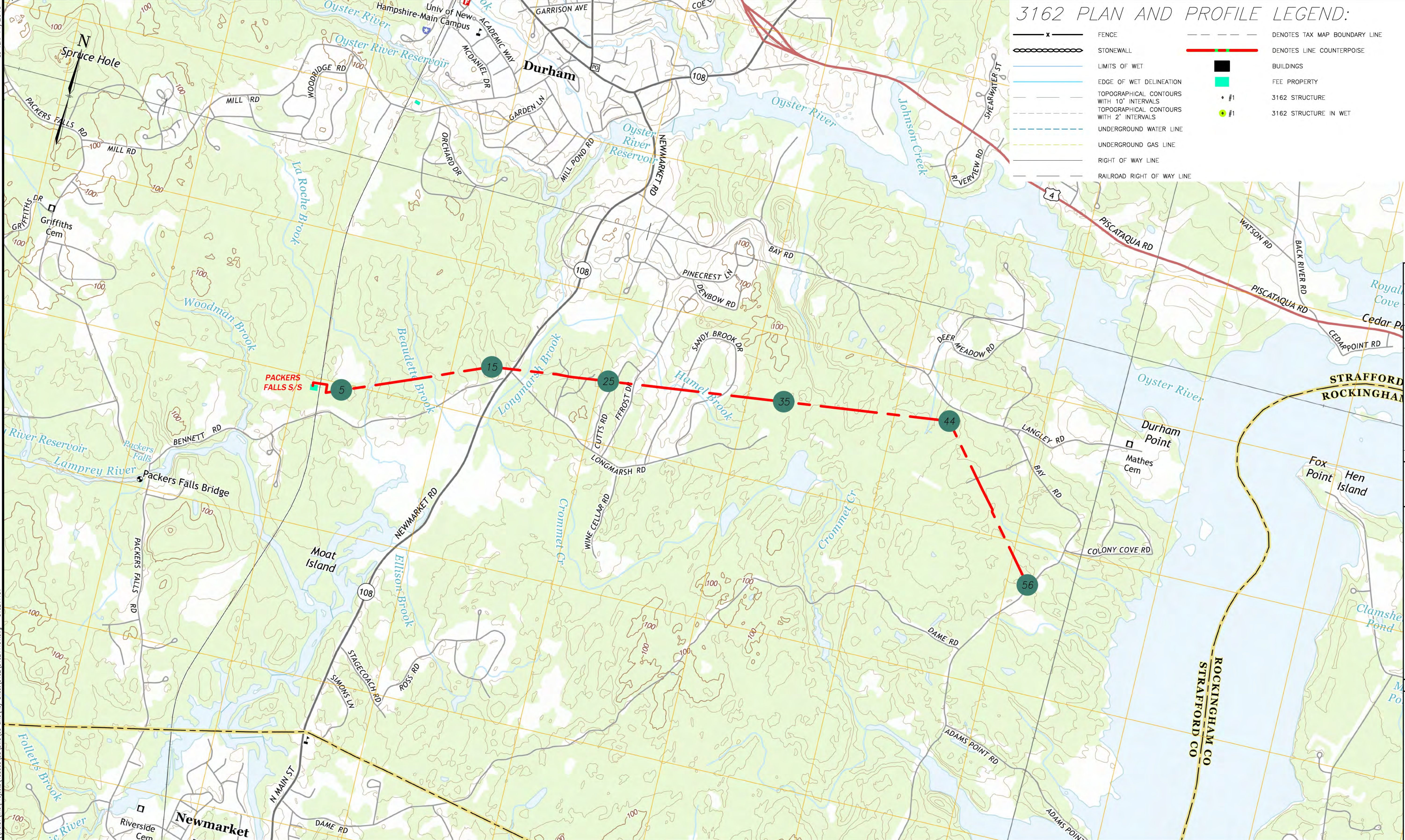
DES. FOR CHECKING	DATE: 08/03/2016
DRAWN BY: SCF	SCALE: H: 1"=200', V: 1"=20'
TRANSMISSION LINE:	
<b>380</b>	
MILE NO: 4	
DISCIPLINE/SHT NO.	
SHEET 4 OF 4	
038044001	

**EVERSOURCE**  
ENERGY

PACKERS FALLS S/S TO MADBURY S/S  
34.5kV DISTRIBUTION LINE  
MILE SHEET

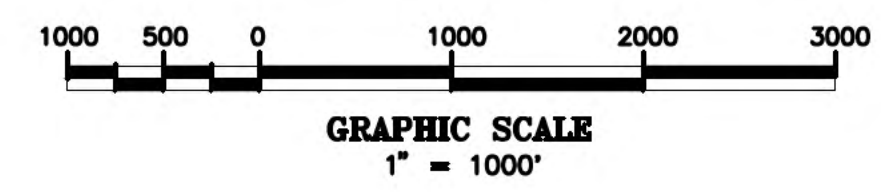


1/24/2018 11:00 AM - sfisher - \\ves1\line\Projects\133005\DD\DWG\03\_Line\Key\_Sheet\3162\_316244101.dwg - 316244101



- ### 3162 PLAN AND PROFILE LEGEND:
- FENCE
  - DENOTES TAX MAP BOUNDARY LINE
  - DENOTES LINE COUNTERPOISE
  - BUILDINGS
  - FEE PROPERTY
  - 3162 STRUCTURE
  - 3162 STRUCTURE IN WET
  - LIMITS OF WET
  - EDGE OF WET DELINEATION
  - TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
  - TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
  - UNDERGROUND WATER LINE
  - UNDERGROUND GAS LINE
  - RIGHT OF WAY LINE
  - RAILROAD RIGHT OF WAY LINE

- ### LEGEND:
- 3162 LINE
  - 3162 STRUCTURE NUMBER
  - INDICATES APPROXIMATE LIMITS OF SUBSTATION



NO.	REVISION	DATE	BY	CHKD	APPRD.
1	ISSUED FOR SEC AMENDMENT	07/27/18	SCF	KMS	APU
2	UPDATED LEGEND	02/09/19	SCF	KMS	APU
3	ISSUED FOR BID NO. 11216A1	02/07/17	SCF	KMS	APU
4	ISSUED FOR BID NO. 11216A1	02/07/17	SCF	KMS	APU
5	ISSUED FOR BID NO. 11216A1	02/07/17	SCF	KMS	APU

**EVERSOURCE ENERGY**

D E  
 PACKERS FALLS S/S TO STR 56  
 34.5kV DISTRIBUTION LINE  
 KEYSHEET  
 DATE: 02/02/2017  
 TOWN: DURHAM  
 TRANSMISSION LINE: 3162  
 MILE NO.:  
 DISCIPLINE/SHT NO.:  
 SHEET 1 OF 1  
 316244101





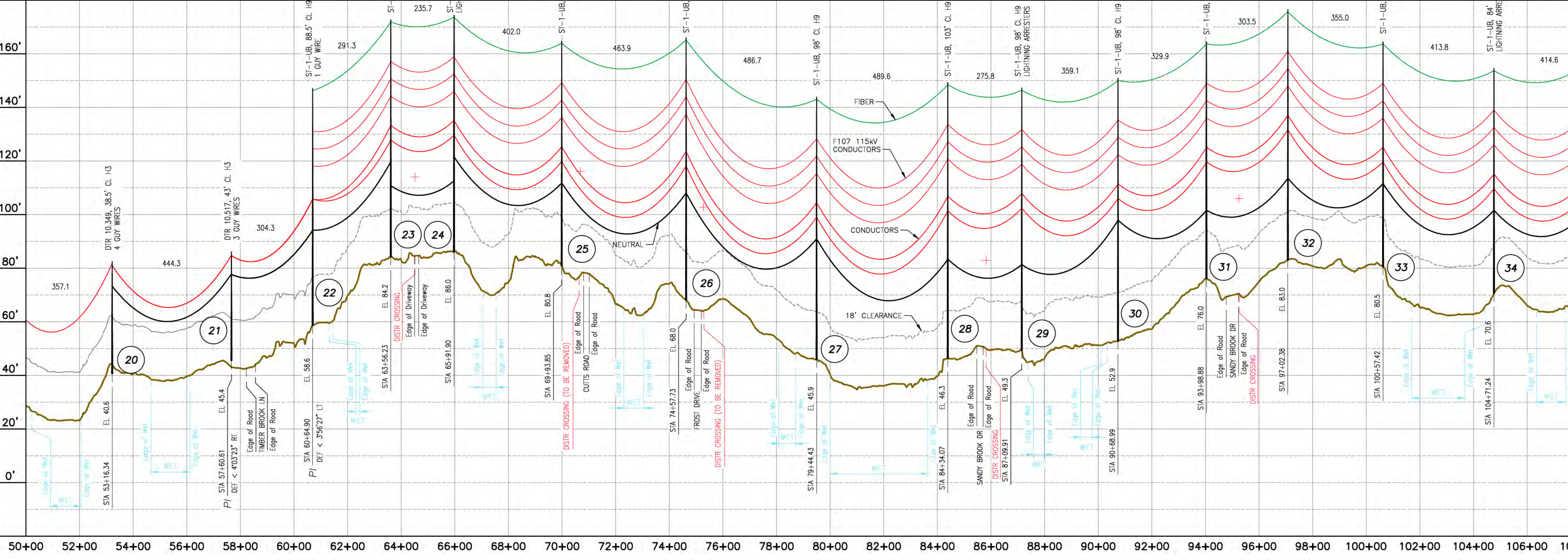
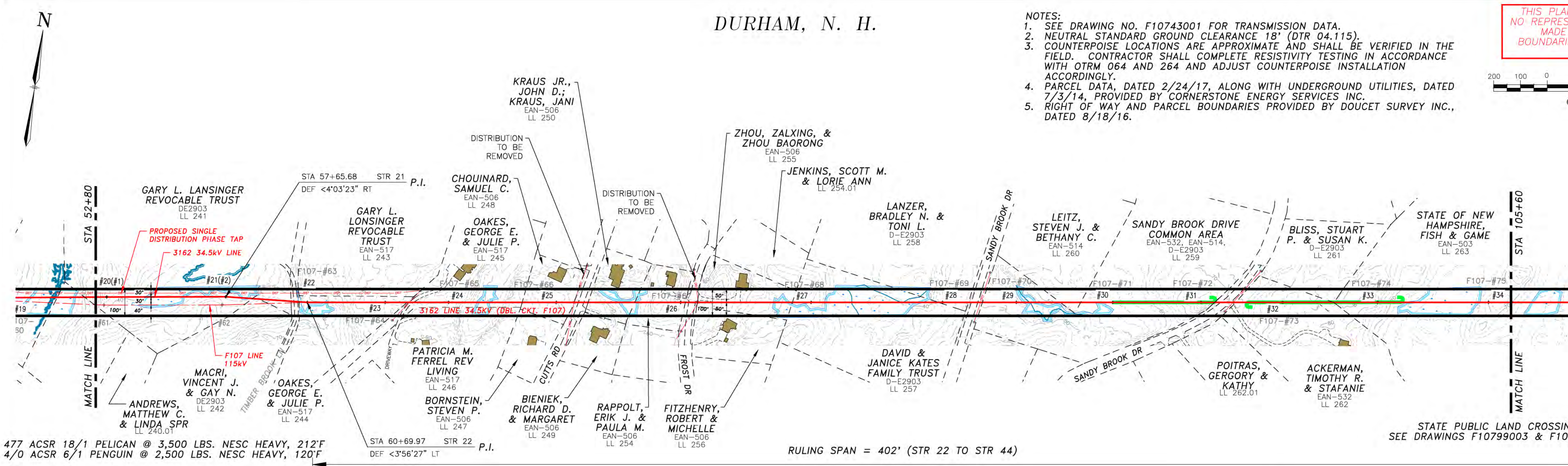
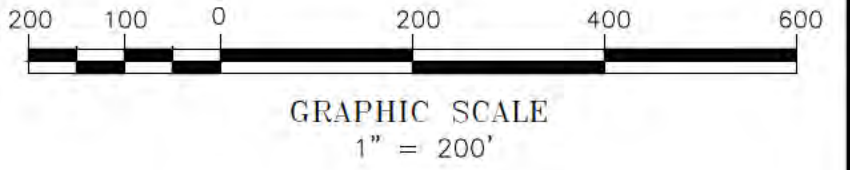


7/19/2018 4:52 PM - sfisher - \\treas\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Ref\02\_FSCA.DWG\316244001-FSCA-2018\_07\_20.dwg - 316244001\_2-4

# DURHAM, N. H.

- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
  - NEUTRAL STANDARD GROUND CLEARANCE 18" (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	8/29/17	SCF	KMS	APJ
3	ISSUED FOR BID WOJ 1127841	8/29/17	SCF	KMS	APJ
4	ISSUED FOR SEC. AMENDMENT	01/10/17	SCF	KMS	APJ
5	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ
6	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ
7	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ
8	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ
9	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ
10	ISSUED FOR 70% REVIEW WOJ 1127841	11/08/16	SCF	KMS	APJ

DES. FOR CHECKING	DATE: 09/03/2016
DRAWN: SCF	SCALE: H: 1"=200', V: 1"=20'
TOWN: DURHAM	
TRANSMISSION LINE: 3162	
DISCIPLINE/SIT NO.	
MILE NO: 2	
SHEET 2 OF 4	
316244001	

**EVERSOURCE**  
ENERGY

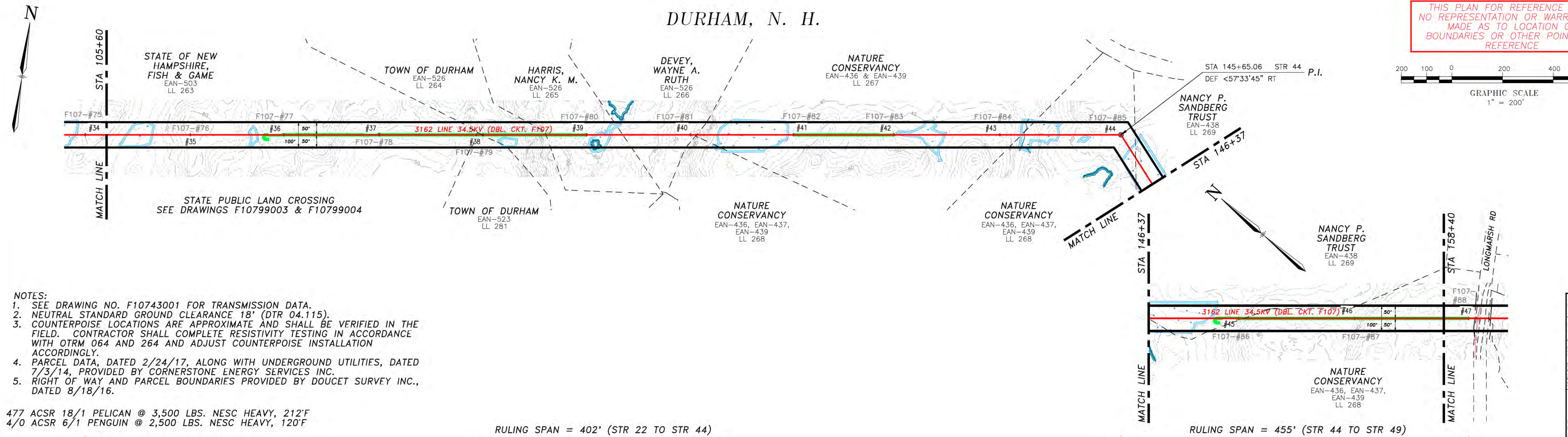
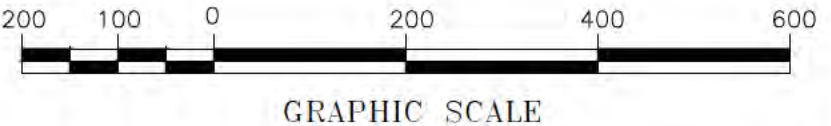
PACKERS FALLS S/S TO STR 53  
34.5KV DISTRIBUTION LINE  
MILE SHEET



7/19/2018 4:52 PM - sfisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Plan & Profile\Plan & Profile\FSCA\_2018\_07\_20.dwg - 316244001\_3-4

# DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.  
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MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE

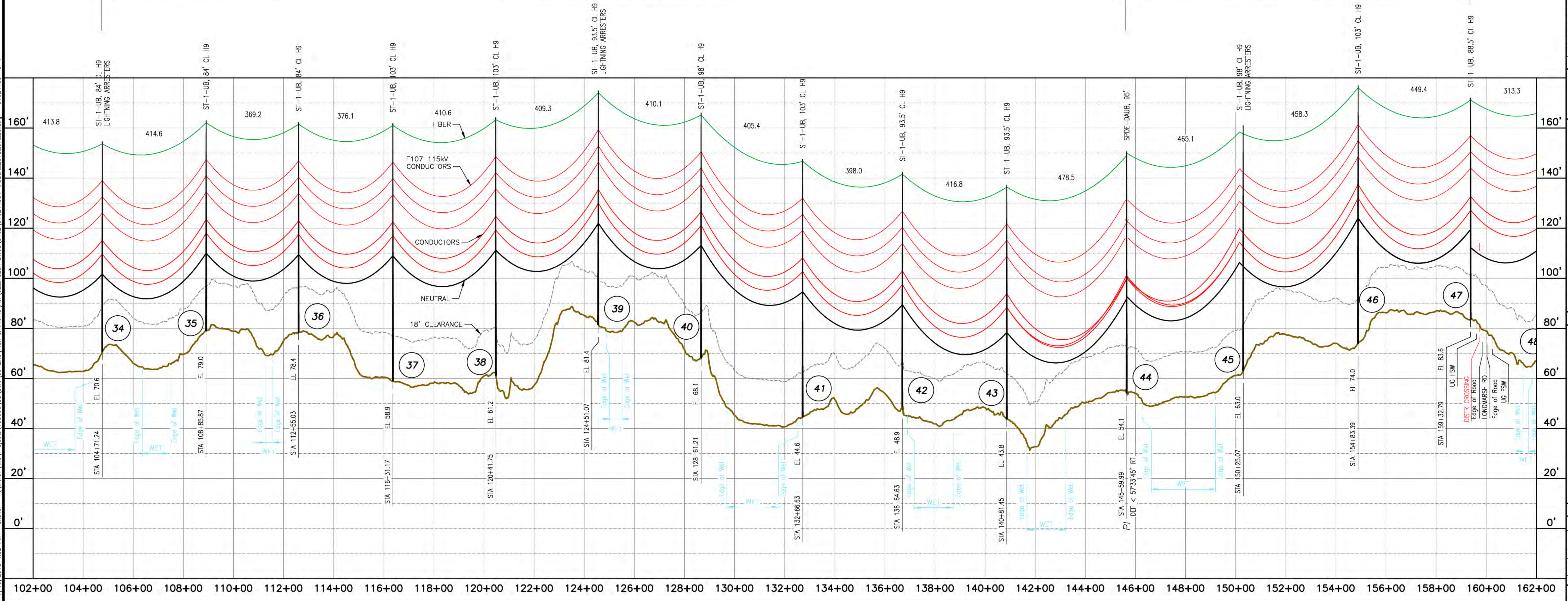


- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
  - NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

477 ACSR 18/1 PELICAN @ 3,500 LBS. NESC HEAVY, 212°F  
4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120°F

RULING SPAN = 402' (STR 22 TO STR 44)

RULING SPAN = 455' (STR 44 TO STR 49)



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	8/29/17	SCF	KMS	APJ
3	ISSUED FOR BID W/ J1278A1	8/29/17	SCF	KMS	APJ
4	ISSUED FOR SEC. AMENDMENT	11/27/16	SCF	KMS	APJ
5	ISSUED FOR SEC. AMENDMENT	01/07/17	SCF	KMS	APJ
6	ISSUED FOR 70% REVIEW W/ J1278A1	11/08/16	SCF	KMS	APJ
7	ISSUED FOR 70% REVIEW W/ J1278A1	11/08/16	SCF	KMS	APJ
8	REVISION		DRWN	CHKD	APPV.
			477 ACSR 18/1 PELICAN	4/0 ACSR 6/1 PENGUIN	

## EVERSOURCE ENERGY

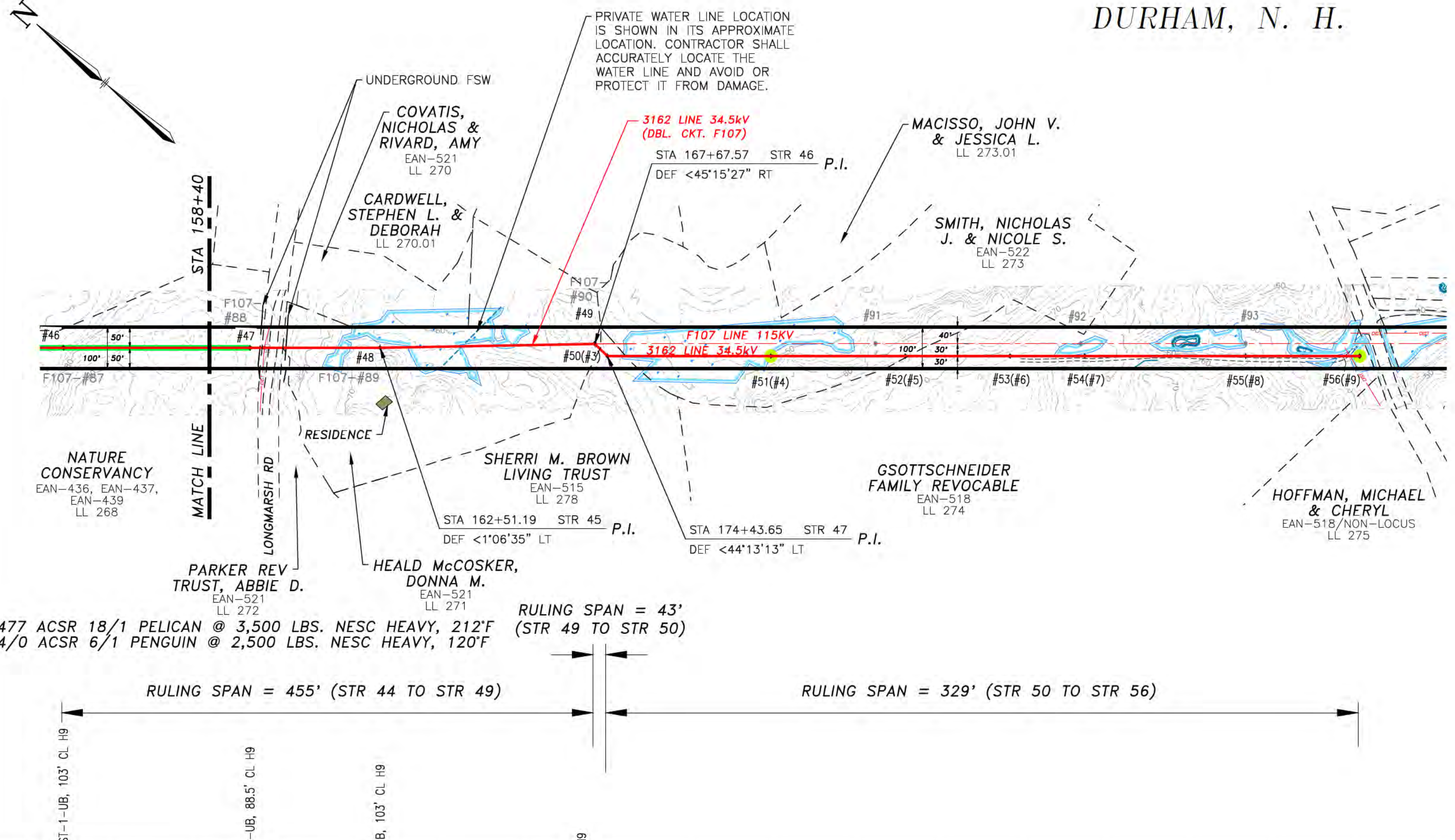
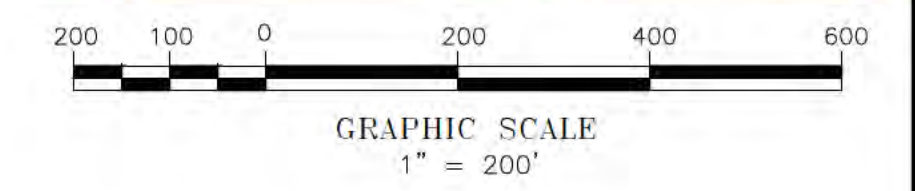
PACKERS FALLS S/S TO STR 53  
34.5KV DISTRIBUTION LINE  
MILE SHEET

DES: FOR CHECKING  
DRAW: SCF  
TRANSMISSION LINE:  
**3162**  
MILE NO: 3  
DISCIPLINE/SHT NO.  
SHEET 3 OF 4  
316244001



# DURHAM, N. H.

THIS PLAN FOR REFERENCE ONLY.  
NO REPRESENTATION OR WARRANTY IS  
MADE AS TO LOCATION OF  
BOUNDARIES OR OTHER POINTS OF  
REFERENCE



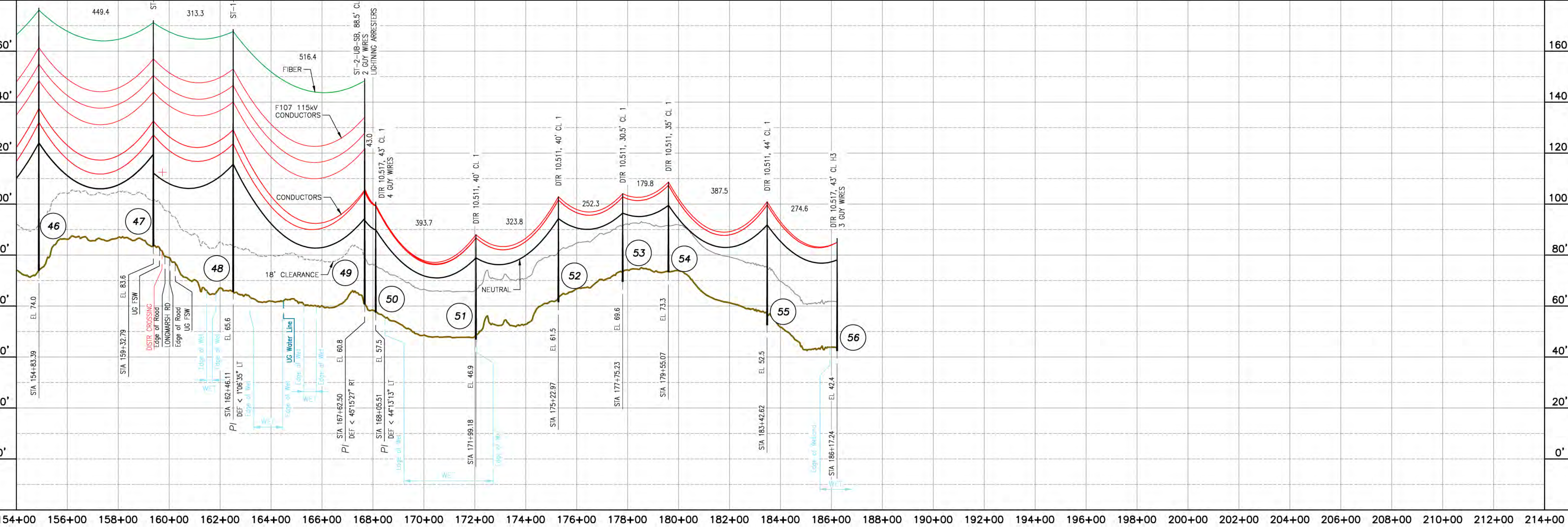
477 ACSR 18/1 PELICAN @ 3,500 LBS. NESC HEAVY, 212'F  
4/0 ACSR 6/1 PENGUIN @ 2,500 LBS. NESC HEAVY, 120'F

RULING SPAN = 43' (STR 49 TO STR 50)

RULING SPAN = 455' (STR 44 TO STR 49)

RULING SPAN = 329' (STR 50 TO STR 56)

- NOTES:
- SEE DRAWING NO. F10743001 FOR TRANSMISSION DATA.
  - NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - COUNTERPOISE LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL COMPLETE RESISTIVITY TESTING IN ACCORDANCE WITH OTRM 064 AND 264 AND ADJUST COUNTERPOISE INSTALLATION ACCORDINGLY.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.



NO.	REVISION	DATE	BY	CHKD	APPV.
1	ISSUED FOR SEC. AMENDMENT	07/20/18	SCF	KMS	APJ
2	ISSUED FOR SEC. AMENDMENT	08/29/17	SCF	KMS	APJ
3	ISSUED FOR PRIVATE WATER LINE, W/O 11278A1	07/28/17	SCF	KMS	APJ
4	ISSUED FOR DMR REVIEW W/O 11278A1	04/27/17	RMP	KMS	APJ
5	ISSUED FOR SEC. AMENDMENT	01/10/17	SCF	KMS	APJ
6	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
7	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
8	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
9	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
10	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
11	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
12	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
13	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
14	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
15	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
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99	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ
100	ISSUED FOR SEC. AMENDMENT	07/10/17	SCF	KMS	APJ

# EVERSOURCE ENERGY

PACKERS FALLS S/S TO STR 53  
34.5kV DISTRIBUTION LINE  
MILE SHEET

DES: EDR CHK: KMS  
DRW: SCF APR: APJ

TOWN: DURHAM  
TRANSMISSION LINE: 3162  
MILE NO: 4  
DISCIPLINE/SHT NO.

SHEET 4 OF 4  
316244001



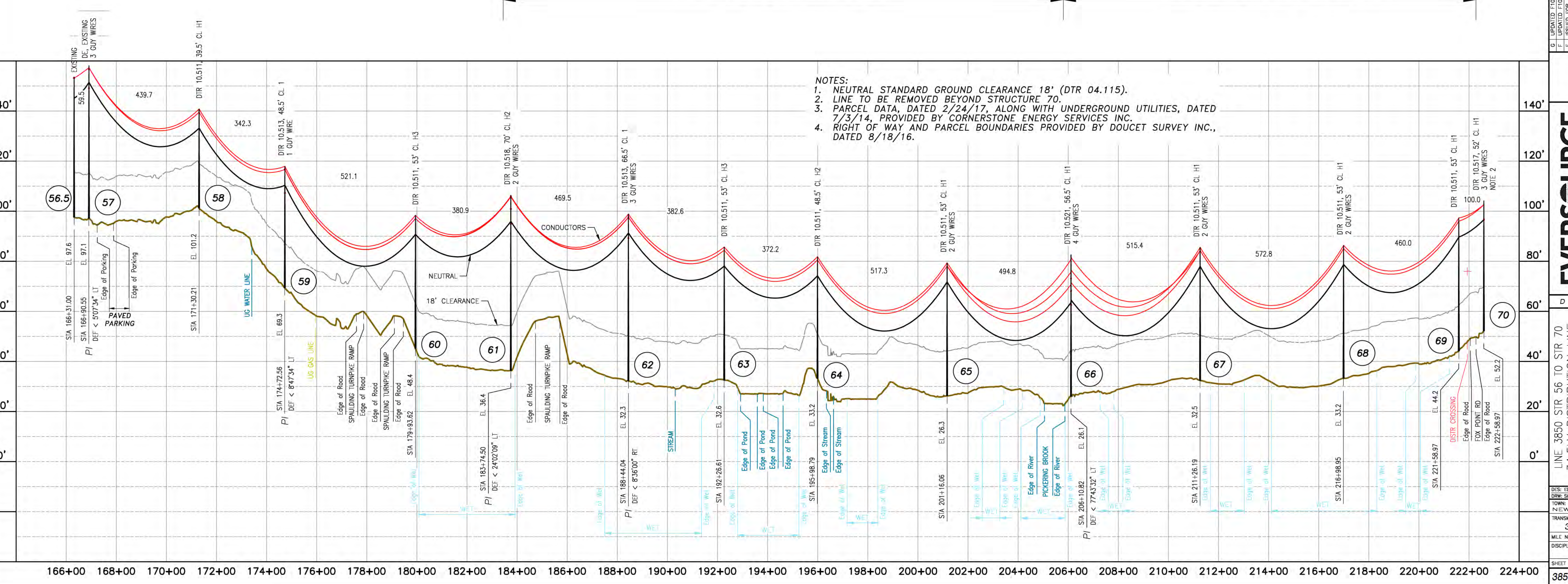
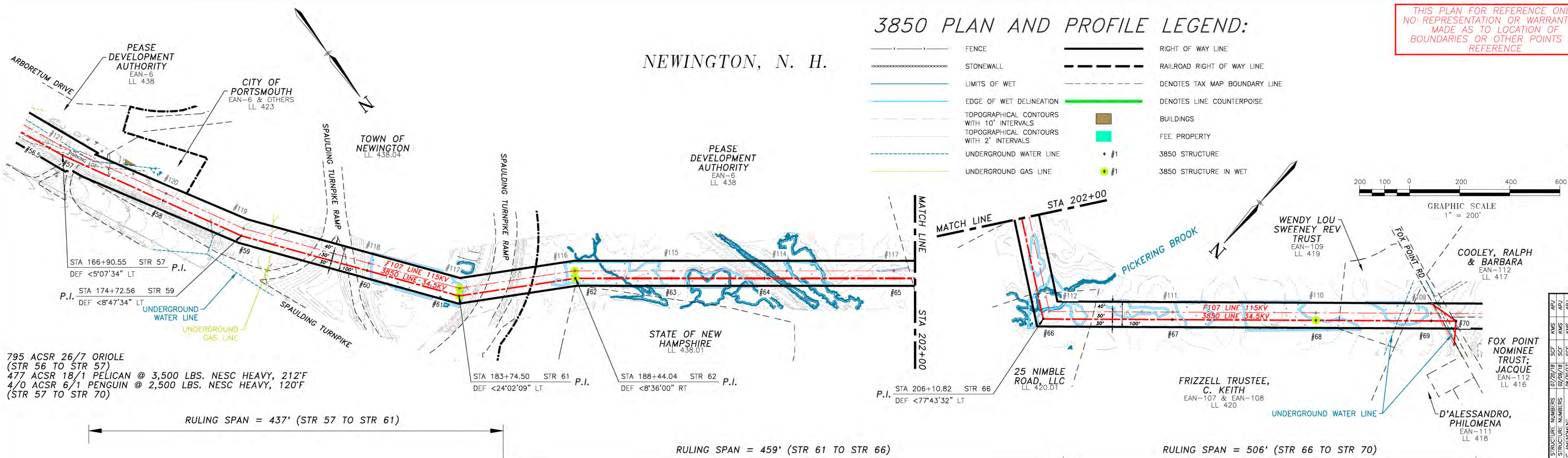
6/27/2018 3:04 PM - sfisher - \\treis\line\Projects\133005\DD\DWG\03\_Line\Plan & Profile\Rea\02\_IFSCA\_DWG\3850\_3850\_3850\3850\4401\_2018\_07\_20.dwg - 38504401

NEWINGTON, N. H.

3850 PLAN AND PROFILE LEGEND:

THIS PLAN FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE

- FENCE
- STONEWALL
- LIMITS OF WET
- EDGE OF WET DELINEATION
- TOPOGRAPHICAL CONTOURS WITH 10' INTERVALS
- TOPOGRAPHICAL CONTOURS WITH 2' INTERVALS
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- RIGHT OF WAY LINE
- RAILROAD RIGHT OF WAY LINE
- DENOTES TAX MAP BOUNDARY LINE
- DENOTES LINE COUNTERPOISE
- BUILDINGS
- FEE PROPERTY
- 3850 STRUCTURE
- 3850 STRUCTURE IN WET



- NOTES:
- NEUTRAL STANDARD GROUND CLEARANCE 18' (DTR 04.115).
  - LINE TO BE REMOVED BEYOND STRUCTURE 70.
  - PARCEL DATA, DATED 2/24/17, ALONG WITH UNDERGROUND UTILITIES, DATED 7/3/14, PROVIDED BY CORNERSTONE ENERGY SERVICES INC.
  - RIGHT OF WAY AND PARCEL BOUNDARIES PROVIDED BY DOUCET SURVEY INC., DATED 8/18/16.

NO.	REVISION	DATE	BY	CHKD	APPV.	DESCRIPTION
1		07/20/18	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
2		08/09/18	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
3		09/20/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
4		04/27/17	RMP	KMS	KMS	ISSUED FOR DOE REVIEW W/11278A
5		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
6		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
7		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
8		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
9		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT
10		01/10/17	SCF	KMS	KMS	ISSUED FOR SEC AMENDMENT

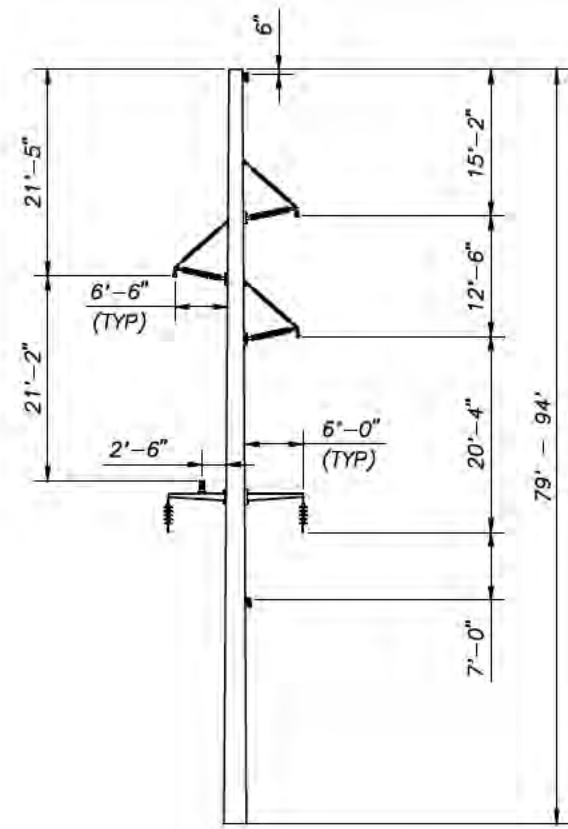
**EVERSOURCE**  
ENERGY

LINE 3850 STR 56 TO STR 70  
34.5KV DISTRIBUTION LINE  
MILE SHEET  
DATE: 08/03/2018  
SCALE: H: 1"=200', V: 1"=20'

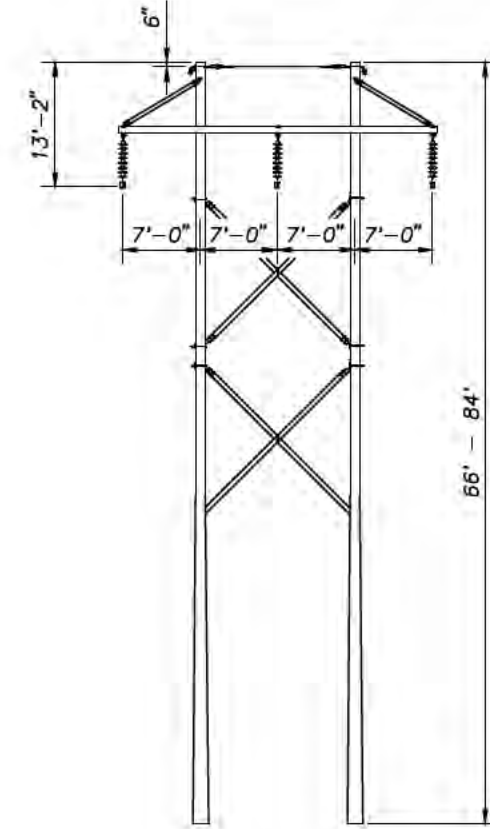






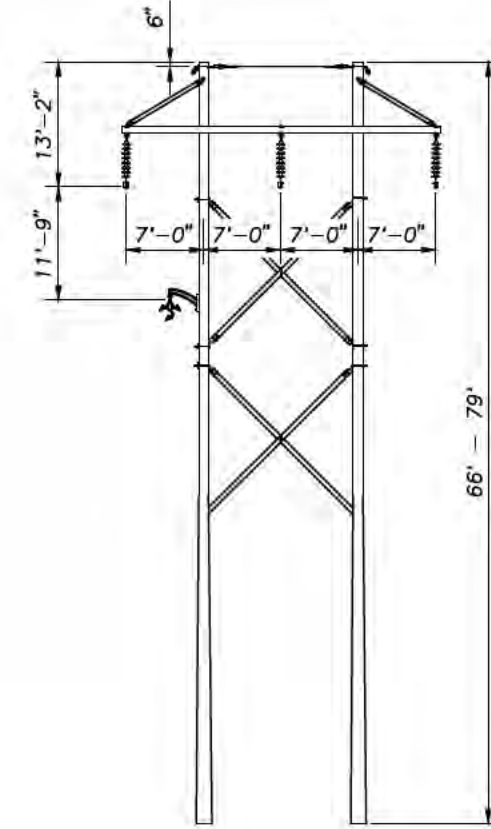


**TYPE ST-2-UB-SB**  
 LIGHT DUTY STEEL SINGLE POLE  
 BRACED POST TANGENT  
 115 KV WITH 34.5 KV UNDERBUILD  
 DIRECT EMBED FOUNDATION



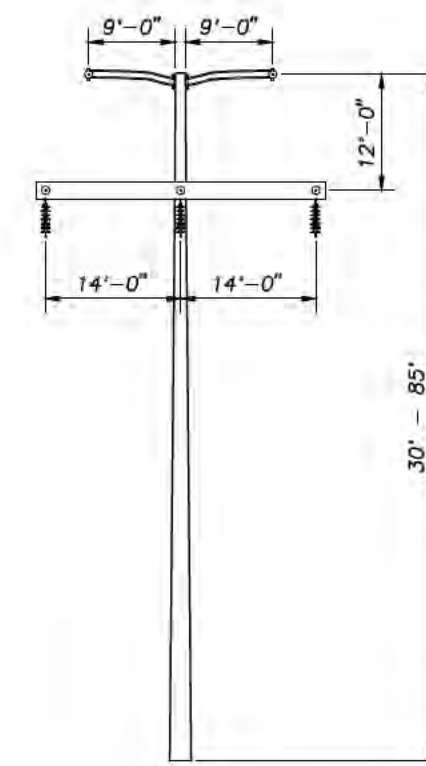
**TYPE SRAX**  
 LIGHT DUTY STEEL  
 TANGENT  
 115 KV  
 DIRECT EMBED FOUNDATION

NOTE:  
 SELECT STRUCTURES WILL HAVE  
 HORIZONTAL STRUTS INSTALLED  
 TO LIMIT INSULATOR SWING.



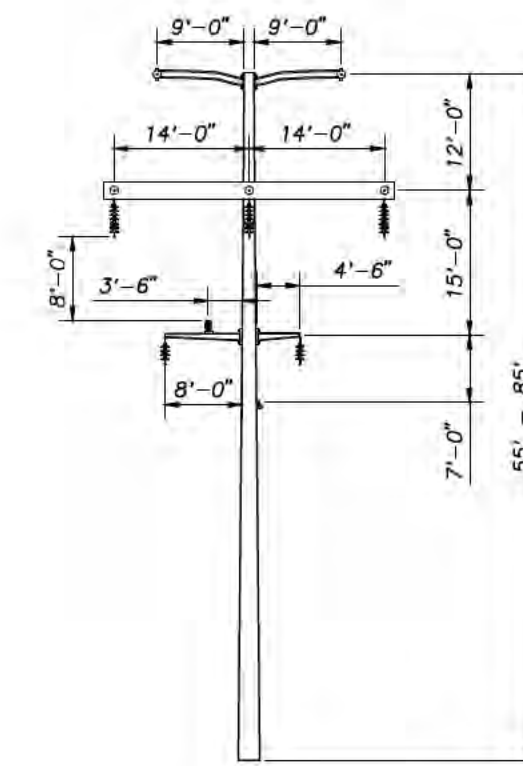
**TYPE SRAX-UB**  
 LIGHT DUTY STEEL  
 TANGENT  
 115 KV W/ 34.5 KV UB  
 DIRECT EMBED FOUNDATION

NOTE:  
 SELECT STRUCTURES WILL HAVE  
 HORIZONTAL STRUTS INSTALLED  
 TO LIMIT INSULATOR SWING.



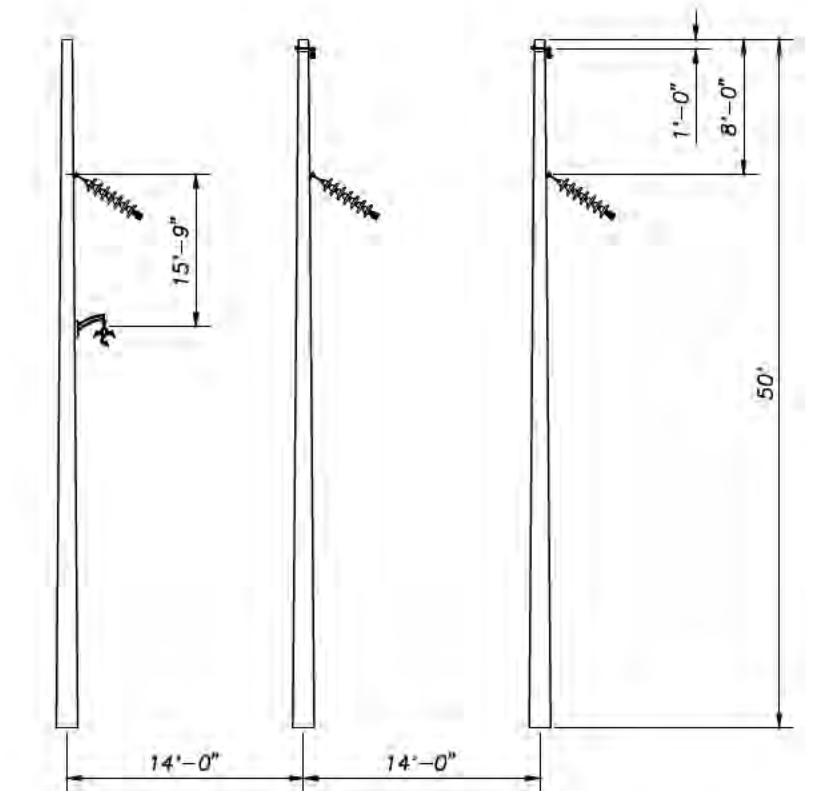
**TYPE SS-H-FRAME**

SELF SUPPORTING STEEL  
 DEADEND  
 115 KV  
 DRILLED PIER FOUNDATION  
 NOTE: 16' CONDUCTOR  
 DAVIT ARMS & 11' SW  
 DAVIT ARMS FOR LINE  
 ANGLES > 50°



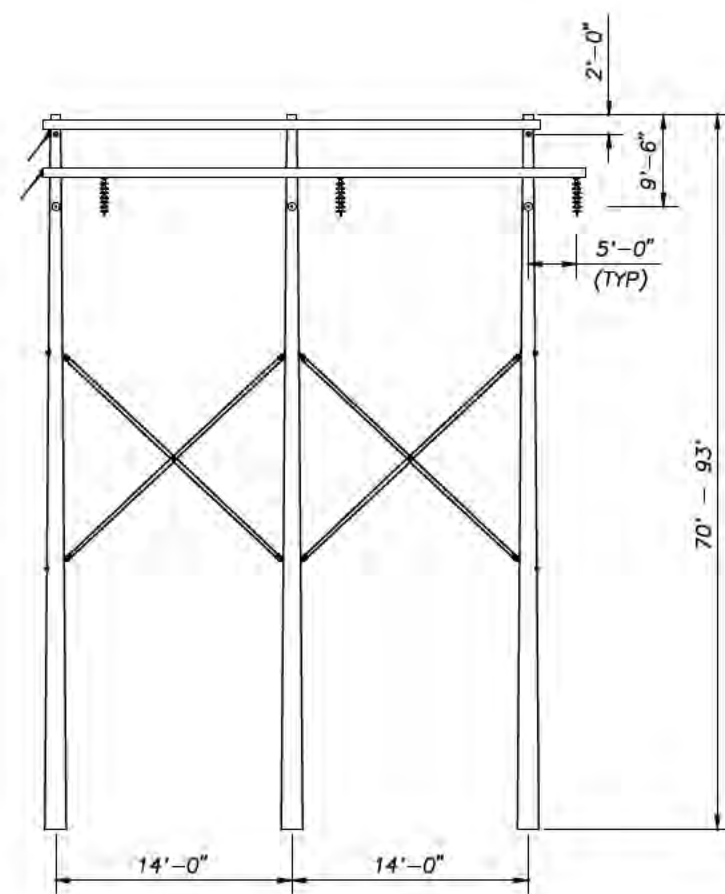
**TYPE SS-H-FRAME-UB**

SELF SUPPORTING STEEL  
 DEADEND  
 115 KV WITH 34.5 KV UNDERBUILD  
 DRILLED PIER FOUNDATION  
 NOTE: 16' CONDUCTOR  
 DAVIT ARMS & 11' SW  
 DAVIT ARMS FOR LINE  
 ANGLES > 50°

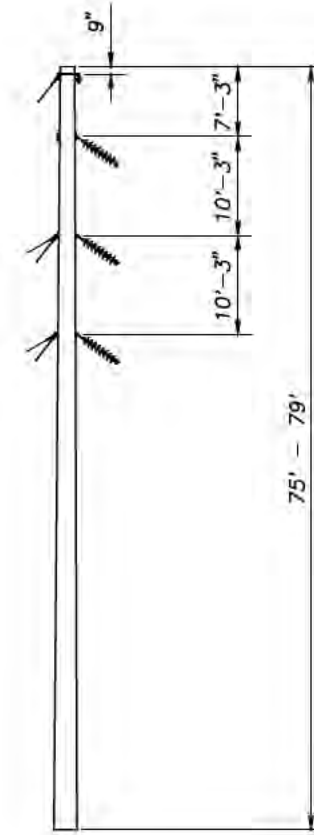


**TYPE C-UB**

STEEL H-FRAME  
 12° - 50° ANGLE  
 115 KV W/ 34.5 KV UB  
 DRILLED PIER FOUNDATION

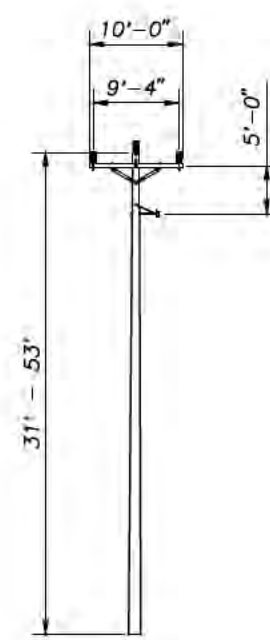


**TYPE SDA**  
 LIGHT DUTY STEEL 3 POLE  
 DEADEND  
 115 KV  
 DIRECT EMBED FOUNDATION

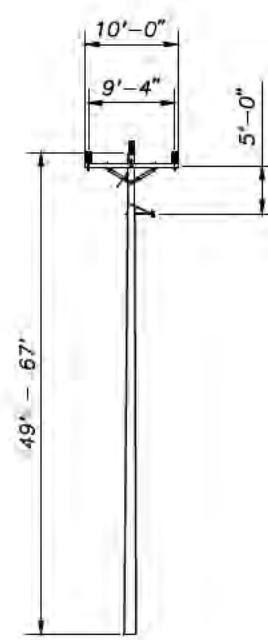


**TYPE SA-3**  
 LIGHT DUTY STEEL GUYED  
 SINGLE POLE  
 20° - 30° ANGLE  
 115 KV  
 DIRECT EMBED FOUNDATION

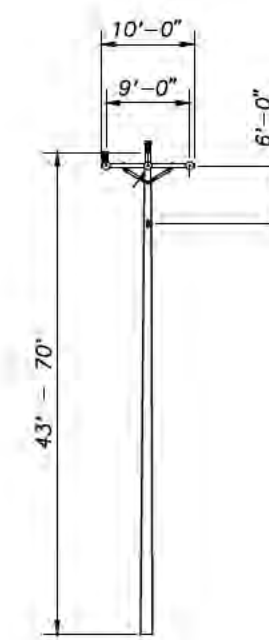
NOTE:  
 FOR STRUCTURES WITH LINE  
 ANGLE > 60°, POLE SPACING  
 IS 18'.



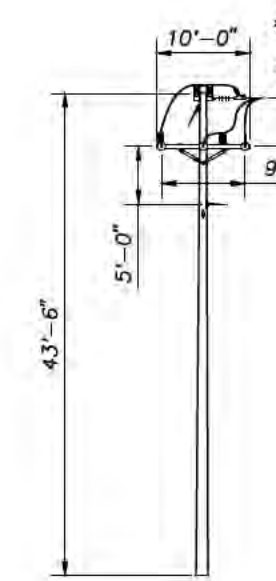
**TYPE TAN**  
 ROUNDWOOD SINGLE POLE  
 TANGENT  
 34.5 KV  
 DIRECT EMBED FOUNDATION



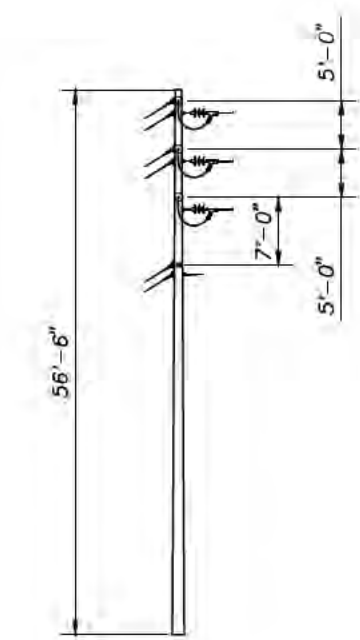
**TYPE DX**  
 ROUNDWOOD SINGLE POLE  
 0° - 12° ANGLE  
 34.5 KV  
 DIRECT EMBED FOUNDATION



**TYPE DE**  
 ROUNDWOOD SINGLE POLE  
 0° - 15° DEADEND ANGLE  
 34.5 KV  
 DIRECT EMBED FOUNDATION



**TYPE DEA**  
 ROUNDWOOD SINGLE POLE  
 15° - 90° DEADEND ANGLE  
 34.5 KV  
 DIRECT EMBED FOUNDATION



**TYPE DEB**  
 ROUNDWOOD SINGLE POLE  
 60°+ DEADEND ANGLE  
 34.5 KV  
 DIRECT EMBED FOUNDATION

NOTE:  
 STRUCTURE GEOMETRIES SUBJECT TO  
 CHANGE WITH DETAILED ENGINEERING.

**PRELIMINARY**

CONTRACT SERVICES	DESCRIPTION	ENG/PE#	DATE	DRN	CHKD	APPR
K	ISSUED FOR SEC AMENDMENT		7/20/18	SCF	KMS	
J	ISSUED FOR SEC AMENDMENT		8/30/17	SCF	KMS	
H	ISSUED FOR SEC AMENDMENT		3/15/17	SCF	KMS	
G	ISSUED FOR SEC AMENDMENT		1/10/17	SCF	KMS	
F	ISSUED FOR SEC AMENDMENT		9/12/16	SCF	KMS	
E	REVISED 30 PERCENT DESIGN		8/22/16	SCF	KMS	
	ISSUED FOR 30% REVIEW		8/22/16	SCF	KMS	

**EVERSOURCE ENERGY**

TYPE 34.5 KV & 115 KV  
 STANDARD STRUCTURE INDEX  
 SEACOAST RELIABILITY PROJECT  
 SHEET 2 OF 2

T K  
 DRAWN  
 SCF  
 ENGINEER  
 KMS  
 CHECKED  
 APJ  
 APPROVED  
 DATE  
 9/2/14