

June 09, 2020

Mr. David Price
NHDES Wetlands Bureau,
Pease Office
222 International Dr., Suite. 175
Portsmouth, NH 03801

**Re: Seacoast Reliability Project - SEC Docket 2015-04
Submarine Cable As-Built Plan Transmittal**

Dear Mr. Price:

Eversource is providing the attached as-built submarine cable plan and profile engineering drawings pursuant to New Hampshire Department of Environmental Services (NHDES) Permit Condition 55 in the New Hampshire Site Evaluation Committee (NHSEC) Order and Certificate of Site and Facility issued to Eversource Energy on January 31, 2010 (SEC Docket. 2015-04), which states:

Cable Depths and As-Built: To the maximum extent practicable, the maximum jet plow and hand-jetting trench depths shall be in accordance with the depths defined in the design drawings submitted July 27, 2018, and in conjunction with Document 1 of the supplemental information filed with the Site Evaluation Committee on June 30, 2017 titled "Revised Modeling Sediment Dispersion from Cable Burial for Seacoast Reliability Project, Upper Little Bay, New Hampshire, June 2017". As-Built (including plan and profiles) showing the actual depths and locations of the cable as well as the location of concrete mattresses shall be provided to NH DES within sixty (60 days) following completion of cable installation. If directed by NHDES, as-built information for the portion of cables installed by jet plow (not hand-jetting) shall be provided to NHDES after each individual cable installation and prior to the next cable installation.

The cable installation was substantially complete with the installation of open cell concrete blocks at the Newington shore landing on May 2, 2020. The as-built drawings show the horizontal and vertical location of the submarine cables, the location of the concrete mattresses, and the location of the buried open cell concrete blocks that were required for cable protection where the minimum burial depth of 3.5-feet below grade (as necessitated by National Electrical Safety Code "NEC" standards) could not be achieved.

If you have any questions regarding this submittal, please contact me (kurt.nelson@eversource.com, 603-634-3256) or Sarah Allen (sallen@normandeau.com, 603-637-1158).

Sincerely,

Eversource Energy



Kurt I. Nelson
Sr. Licensing and Permitting Specialist

Cc: Pamela Monroe, Administrator, NHSEC
Lindsey Lefebvre, Project Manager, ACOE

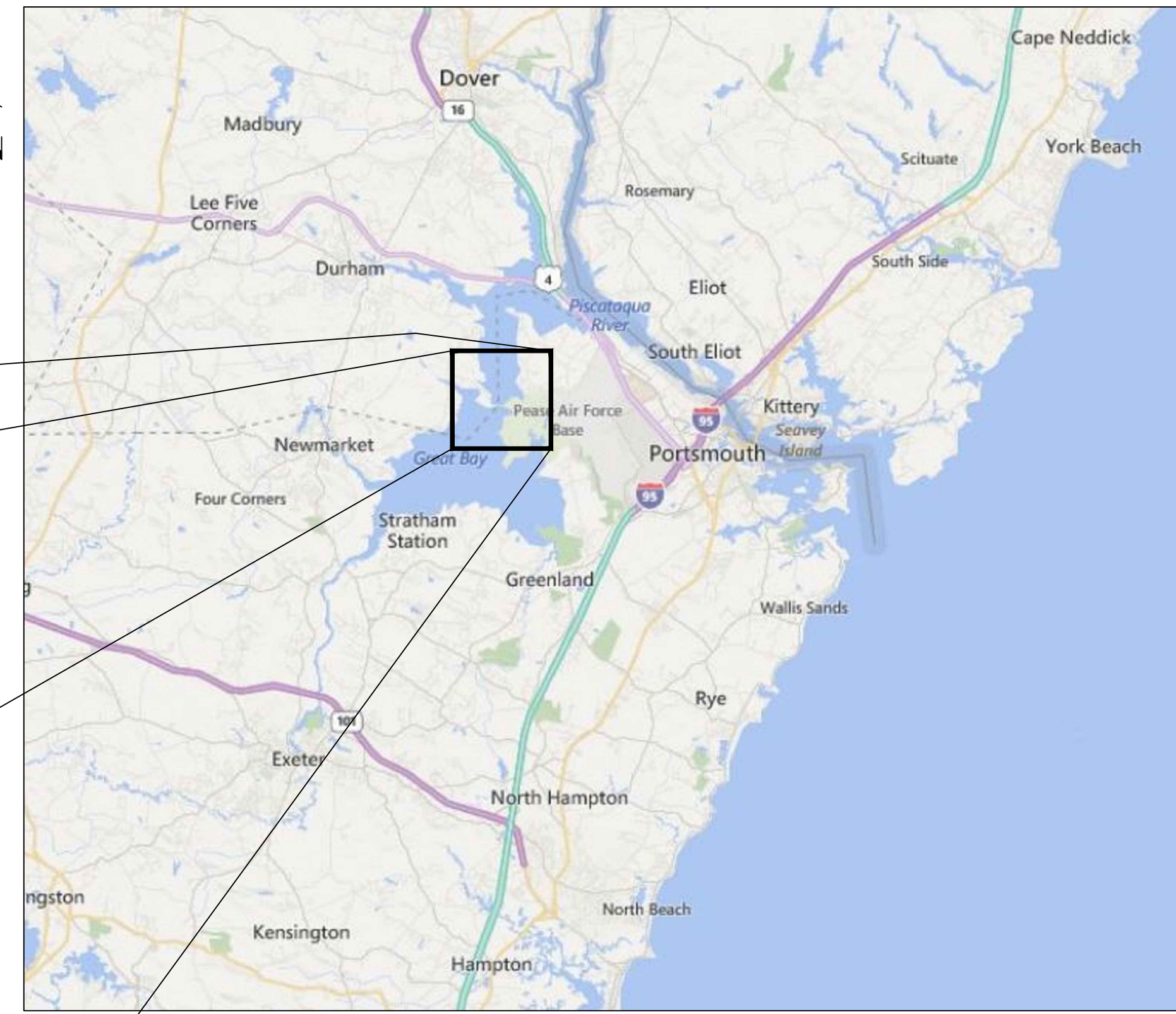
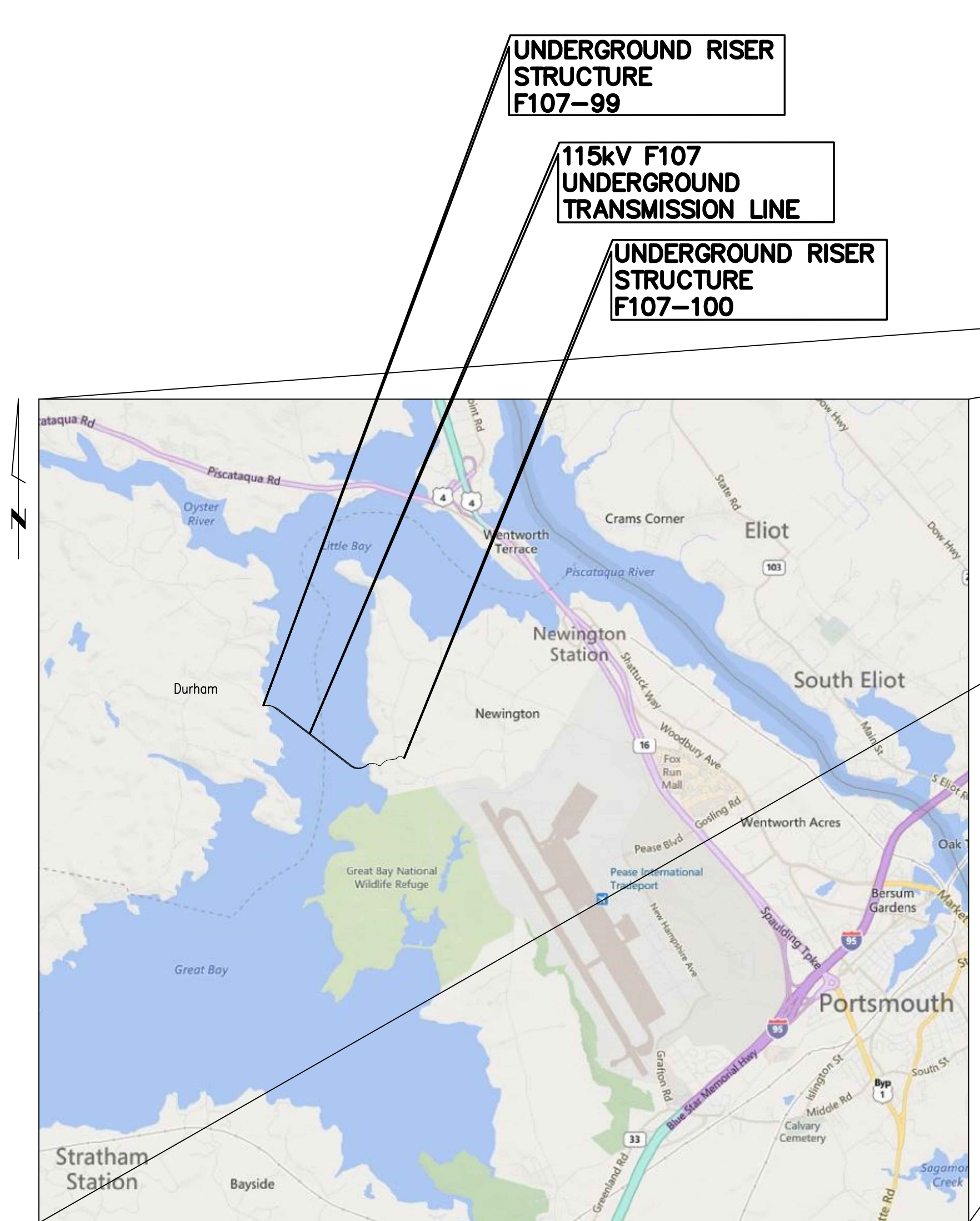
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE DBA EVERSOURCE ENERGY SEACOAST RELIABILITY PROJECT, CIRCUIT F107 LITTLE BAY CROSSING, NEWINGTON AND DURHAM 115kV UNDERGROUND TRANSMISSION LINE

ES VER. 11/2015

| DRAWING MANIFEST | |
|------------------|---|
| DRAWING NO. | TITLE/DESCRIPTION |
| SHEET 1 OF 25 | COVER SHEET, LEGEND, AND DRAWING MANIFEST |
| SHEET 2 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00 |
| SHEET 3 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00 |
| SHEET 4 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 393+00 TO STA. 403+00 |
| SHEET 5 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00 |
| SHEET 6 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00 |
| SHEET 7 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 403+00 TO STA. 413+00 |
| SHEET 8 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00 |
| SHEET 9 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00 |
| SHEET 10 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 413+00 TO STA. 423+00 |
| SHEET 11 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00 |
| SHEET 12 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00 |
| SHEET 13 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 423+00 TO STA. 433+00 |
| SHEET 14 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00 |
| SHEET 15 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00 |
| SHEET 16 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 433+00 TO STA. 443+00 |
| SHEET 17 OF 25 | PHASE 1 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00 |
| SHEET 18 OF 25 | PHASE 2 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00 |
| SHEET 19 OF 25 | PHASE 3 PLAN AND PROFILE DRAWING STA. 443+00 TO STA. 453+00 |
| SHEET 20 OF 25 | PLAN AND PROFILE DRAWING STA. 453+00 TO STA. 463+00 |
| SHEET 21 OF 25 | PLAN AND PROFILE DRAWING STA. 463+00 TO STA. 470+00 |
| SHEET 22 OF 25 | TRENCH AND JET PLOW DETAILS |
| SHEET 23 OF 25 | SPLICE VAULT DETAILS |
| SHEET 24 OF 25 | SPLICE VAULT DETAILS |
| SHEET 25 OF 25 | SPLICE VAULT MISCELLANEOUS DETAILS |

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 |
| | TYPICAL |
| | RETAINING |
| | EDGE OF PAVEMENT |
| | CONC. |
| | TREE LINE |
| | SHRUB LINE |
| | PROPERTY LINES |
| | DRAIN LINE |
| | OHW OVERHEAD ELECTRIC |
| | UGE UNDERGROUND ELECTRIC |
| | W WATER LINE |
| | TELE TELEPHONE LINE |
| | S SEWER |
| | STM STEAM LINE |
| | PD PROPOSED DRAIN |
| | EASEMENT |
| | STONE WALL |



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General Notes

1. THE PLANIMETRICS, UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEYS, AERIAL PHOTOGRAPHY AND RECORD DOCUMENTS. EXISTING CONDITIONS BY SURVEY BY DUCET. OTHER FACILITIES MAY NOT BE DISCOVERED THROUGH THE RECORD CHECK AND OTHER UTILITY LOCATING ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-344-7233.
2. LOCATIONS OF UTILITIES SHOWN BASED ON AS-BUILT SURVEY PROVIDED BY MCCOURT CONSTRUCTION AND DUROCHER MARINE.
3. VERTICAL DATUM IS BASED ON NAVD83, HORIZONTAL DATUM IS BASED ON NEW HAMPSHIRE STATE PLANE IN US FEET, NAD83
4. VERTICAL LOCATION OF SUBSURFACE UTILITY LINES ARE BASED ON ASSUMED DEPTHS USING BEST AVAILABLE INFORMATION AND MAY VARY FROM THE ACTUAL VERTICAL LOCATIONS. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
5. DETAIL DESIGN MAY BE OPTIMIZED TO REFLECT ACTUAL CONDITIONS WITH OWNER REVIEW AND ACCEPTANCE.
6. ALL WORK SHALL BE PERFORMED WITHIN THE DESIGNATED PROPERTIES AS NOTED ON THE DRAWINGS.
7. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
8. CIVIL CONTRACTOR SHALL HAUL AWAY ALL UNUSED EXCAVATED MATERIAL TO PERMITTED SOIL DISPOSAL SITE PROJECT SPECIFICATIONS, AND THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
9. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY & ALL UTILITIES AND FACILITIES (INCLUDING THOSE NOT SHOWN ON THE DRAWINGS) DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, APPLICABLE UTILITY SPECIFICATION, FEDERAL, STATE AND LOCAL REQUIREMENTS.
10. ABANDONED UTILITIES SHALL BE CUT AND CAPPED AS NECESSARY WITH UTILITY OWNER REVIEW AND ACCEPTANCE. ABANDONED GAS LINES SHALL NOT BE CUT.
11. CIVIL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES FOR CONTROLLING EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
12. CIVIL CONTRACTOR SHALL RESTORE GRADE TO PRE-CONSTRUCTION ELEVATIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
13. PROPOSED DUCT BANK SHALL MAINTAIN A MINIMUM CLEARANCE OF 2'-6" BETWEEN THE CONCRETE ENCASUREMENT AND GRADE, OR AS SHOWN ON THE DRAWINGS.
14. ALL VERTICAL RADII ARE 500' AND ALL HORIZONTAL RADII ARE 500' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
15. PROPOSED DUCT BANK SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCE OF 24" PER UTRM 077 AND A MINIMUM VERTICAL CLEARANCE OF 24" PER UTRM 077 TO EXISTING UTILITIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDOCUMENTED UTILITIES DISCOVERED DURING CONSTRUCTION THAT IMPEDE ON THE REQUIRED CLEARANCES TO THE PROPOSED DUCT BANK.
16. PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. CONTRACTOR IS RESPONSIBLE FOR ENSURING PRINTED COPIES ARE THE LATEST REVISION.
17. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE EVERSOURCE UTRM REQUIREMENTS.
18. CONSTRUCTION SHALL BE IN ACCORDANCE WITH MEMORANDUM OF UNDERSTANDINGS BETWEEN EVERSOURCE AND TOWN OF DURHAM AND NEWINGTON.
19. SEE DRAWINGS F10743001 AND F10705026 FOR CONNECTION DETAILS BETWEEN THE OVERHEAD AND UNDERGROUND LINES. SEE DRAWING F10713401 FOR PHASING OF F107 LINE.
20. SEE ENVIRONMENTAL CONSTRUCTION MAPS AND DETAILS FOR ENVIRONMENTAL CONTROL AND ACCESS.
21. ALL CONSTRUCTION SHOULD BE IN ACCORDANCE WITH NH EVALUATION COMMITTEE REQUIREMENTS AND CONDITIONS.

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

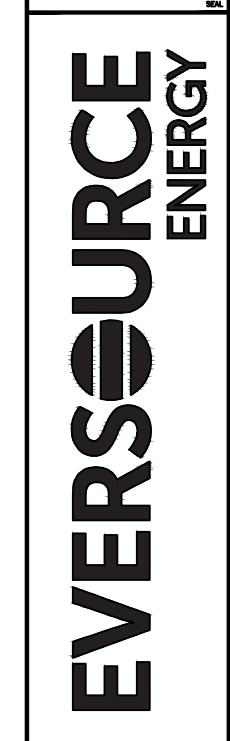
PSNH (PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE)
WORK ORDER NUMBER: T1276A1
EPN-8466

POWER ENGINEERS
PROJECT ENGINEER: TODD GOYETTE

POWER ENGINEERS
PROJECT NUMBER: 133007

PRINT DRAWING TO SCALE ON 22"x34" SHEET

| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 04-11-19 | ... | ... | ... |
| 2 | REVISED DRAWING | 05-23-19 | ... | ... | ... |
| 3 | REVISED DRAWING | 05-23-19 | ... | ... | ... |
| 4 | ISSUE FOR RECORD | 08-11-20 | ... | ... | ... |



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CIRCUIT F107 115KV
UNDERGROUND TRANSMISSION LINE
COVER SHEET

DATE: 3/7/2019
SCALE: N.T.S.

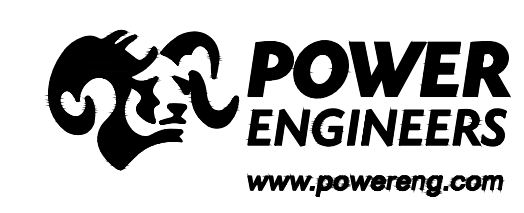
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CHK: TSG
DRW: REO
APR: TSG

TOWN:
DURHAM & NEWINGTON

TRANSMISSION LINE:
LINE

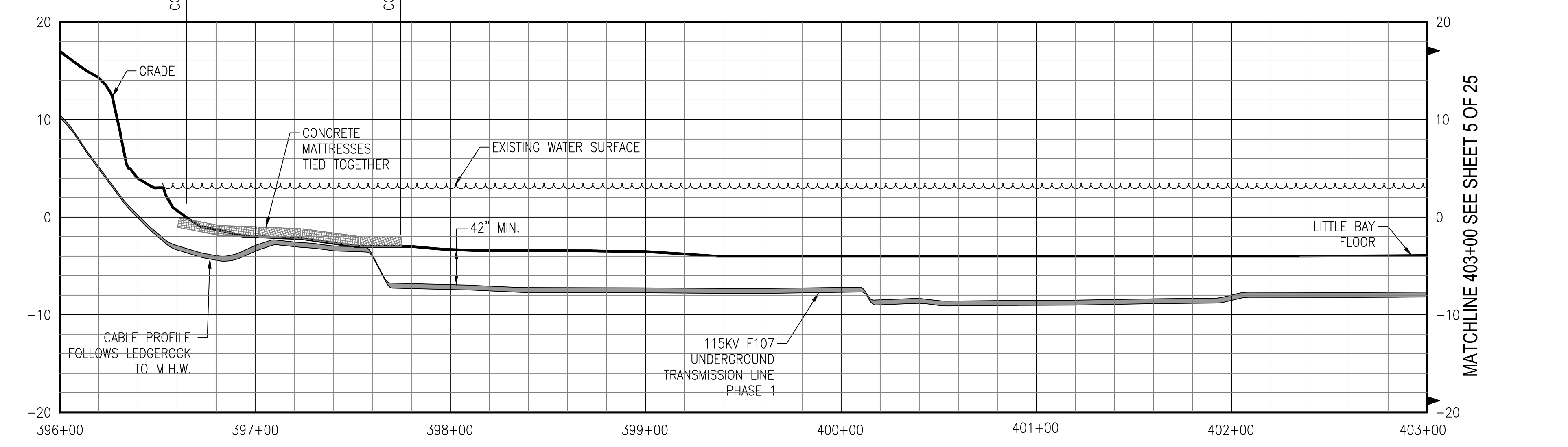
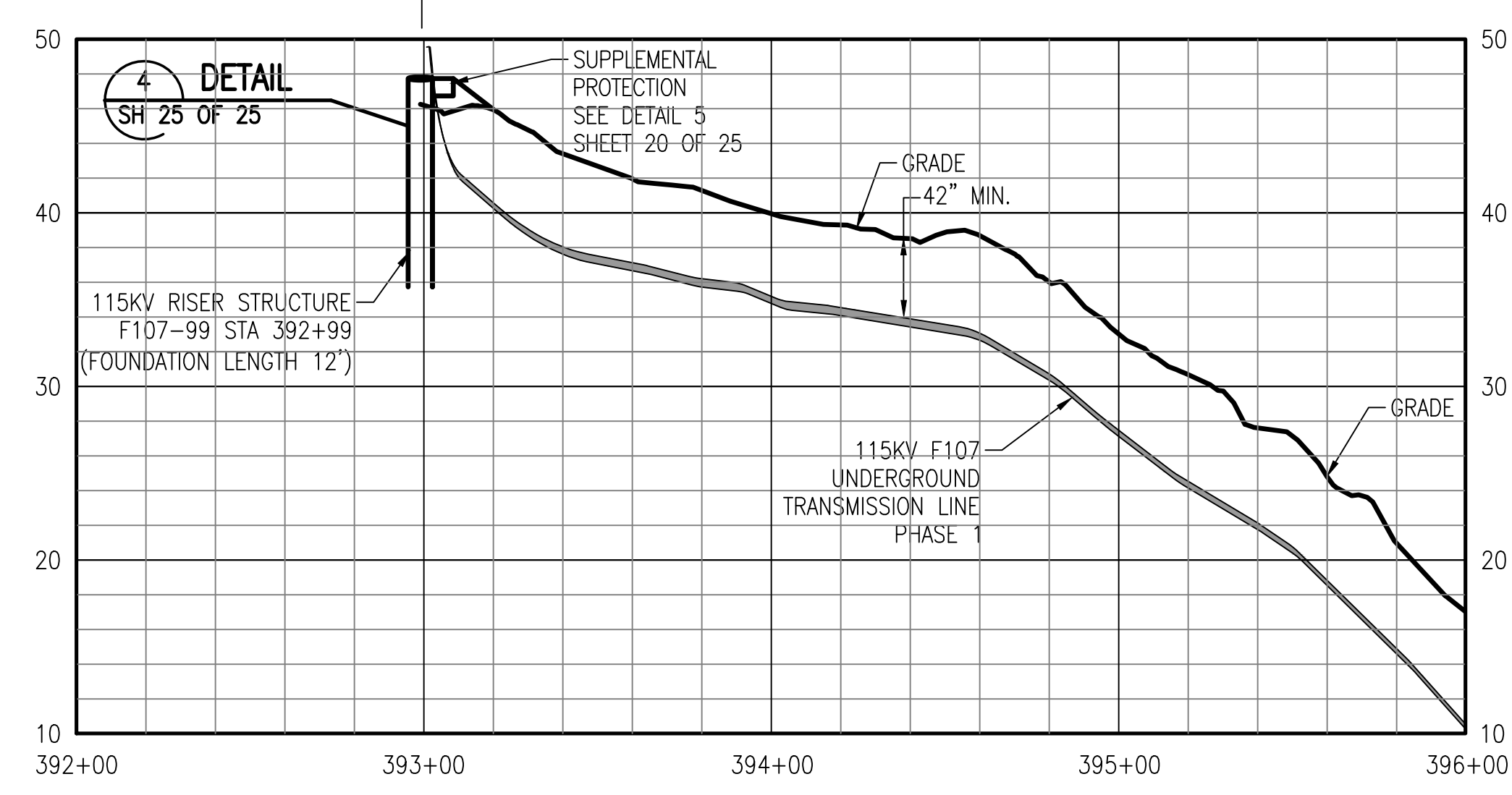
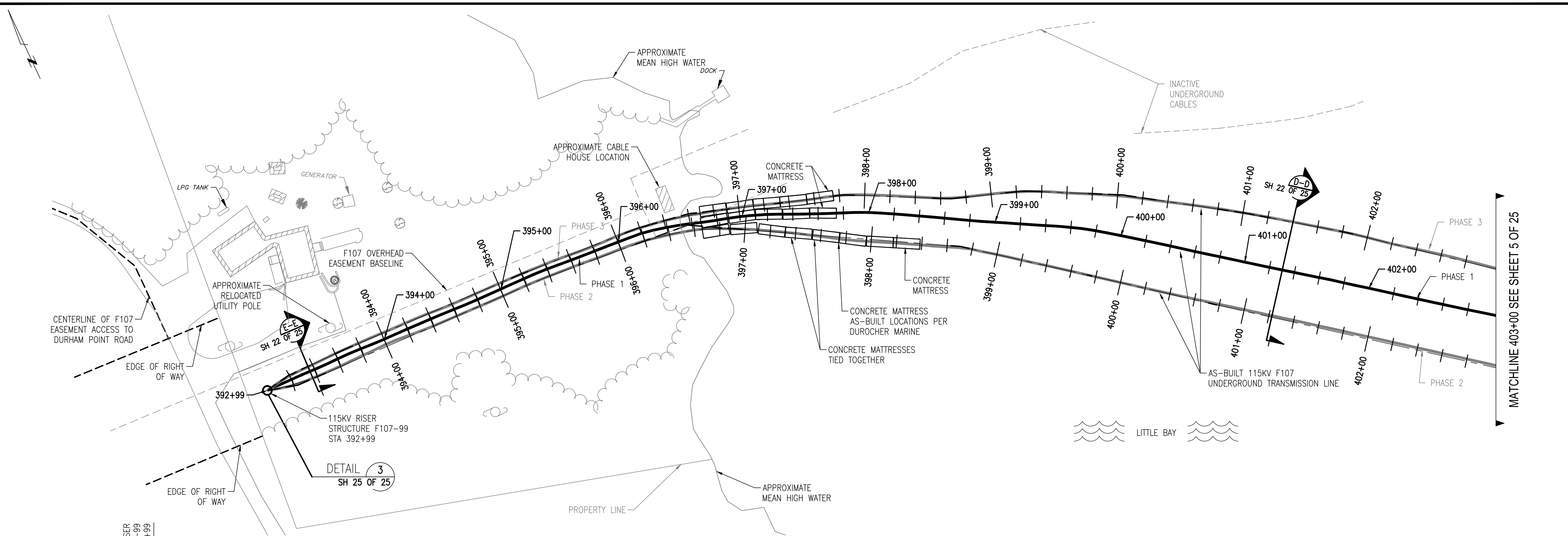
MILE NO: 8 & 9
DISCIPLINE/SHT NO.

SHEET 1 OF 25
F10743003



6/3/2020 10:36 AM - ralsen - E:\Projects\133007\DD\DWG\09 Final CADD Files To EVERSOURCE\As-Built\Little Bay (F10743003)\REV 4\F10743003.dwg - COVER

6/3/2020 11:32 AM - E:\Projects\133007\DD\DWG\09 Final CADD Files\To EVERSOURCE\As-Built\Little Bay (F10743003)\REV 4\F10743003.dwg - 2



MATCHLINE 403+00 SEE SHEET 5 OF 25

MATCHLINE 403+00 SEE SHEET 5 OF 25

| NO. | REVISION | DATE | BY | CHKD | APPR. |
|-----|---------------------------|----------|-----|------|-------|
| 1 | ISSUE FOR CONSTRUCTION | 04/11/19 | TSJ | TSJ | TSJ |
| 2 | REVISED TRANSMISSION LINE | 05/23/19 | TSJ | TSJ | TSJ |
| 3 | REVISED TRANSMISSION LINE | 06/11/19 | TSJ | TSJ | TSJ |
| 4 | ISSUE FOR RECORD | 06/11/19 | TSJ | TSJ | TSJ |

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CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW

DATE: 3/7/2019

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

T 4

TRANSMISSION LINE: LINE

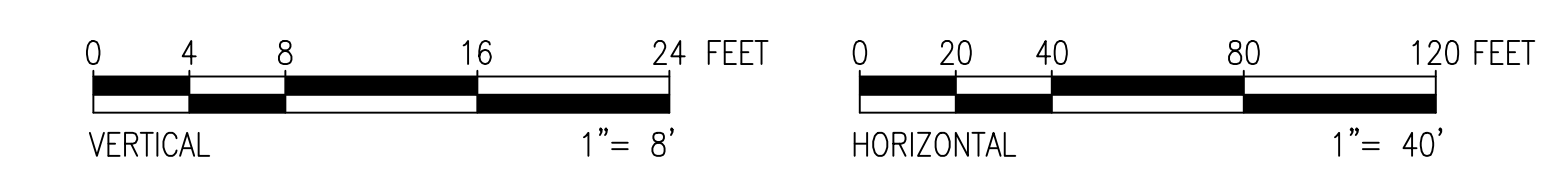
DISCIPLINE/SHT NO. F10743003

SHEET 2 OF 25

811

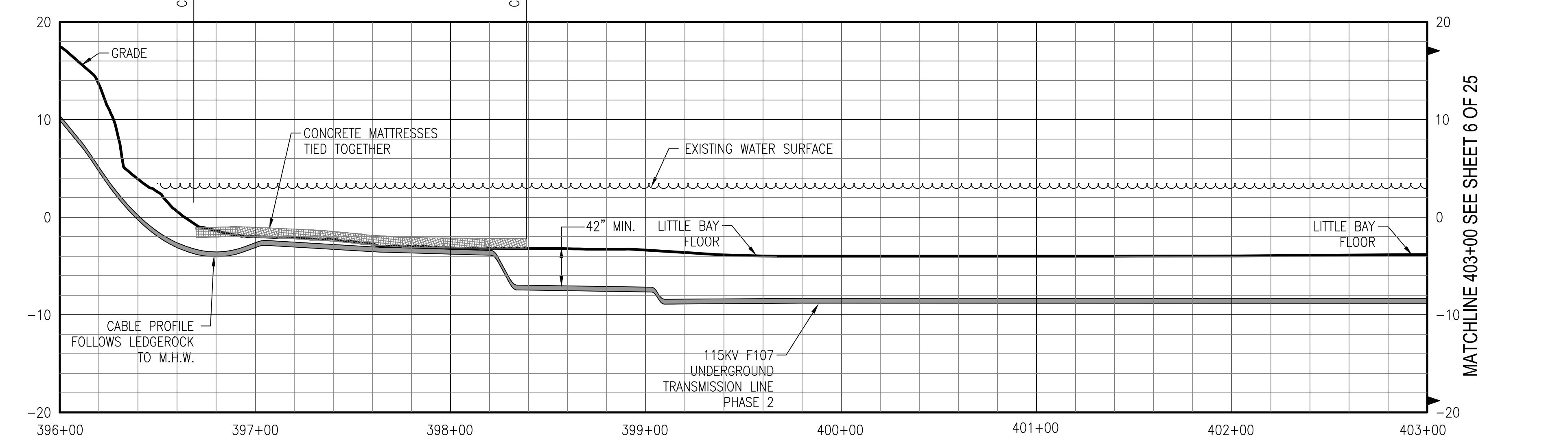
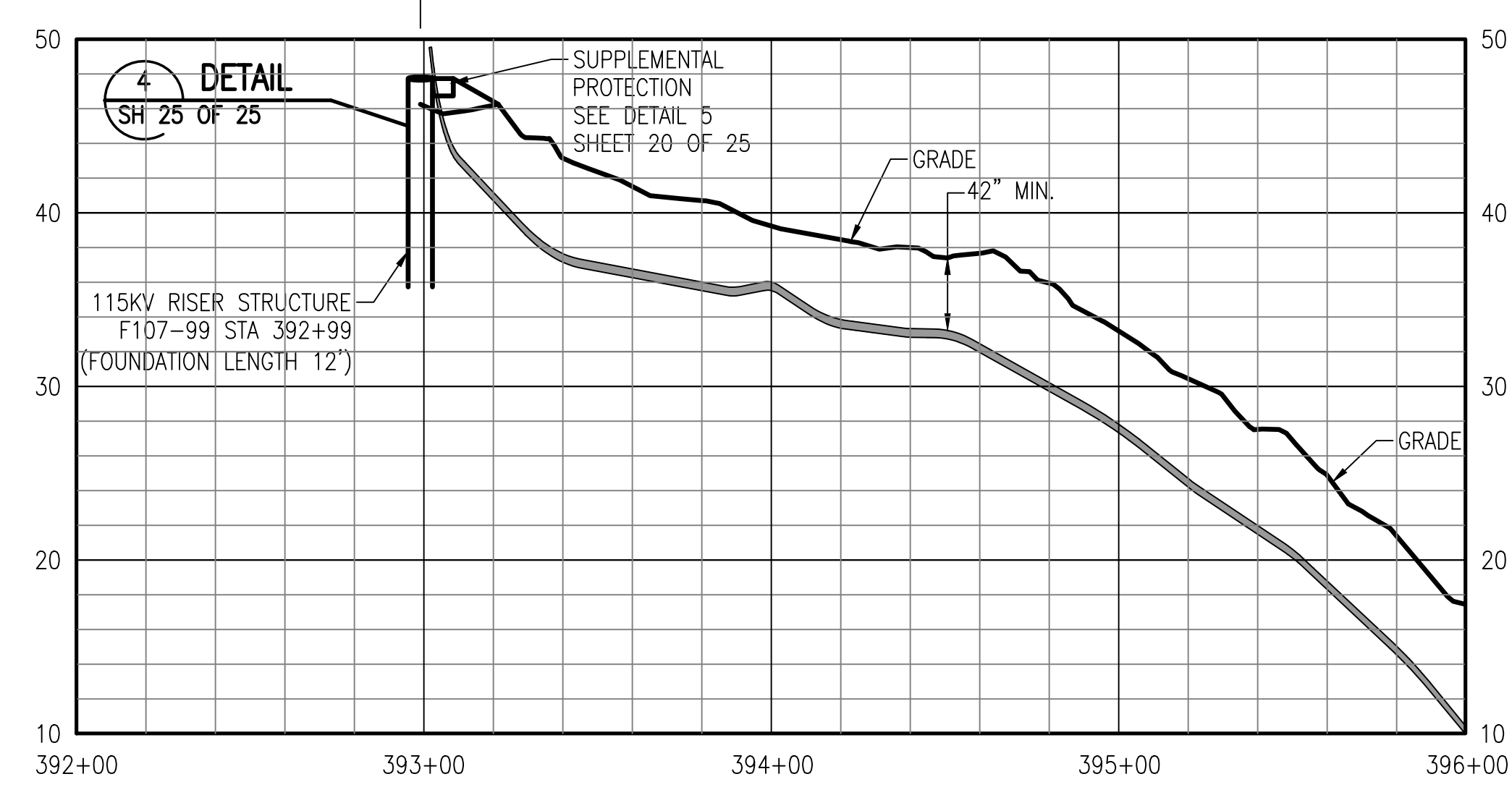
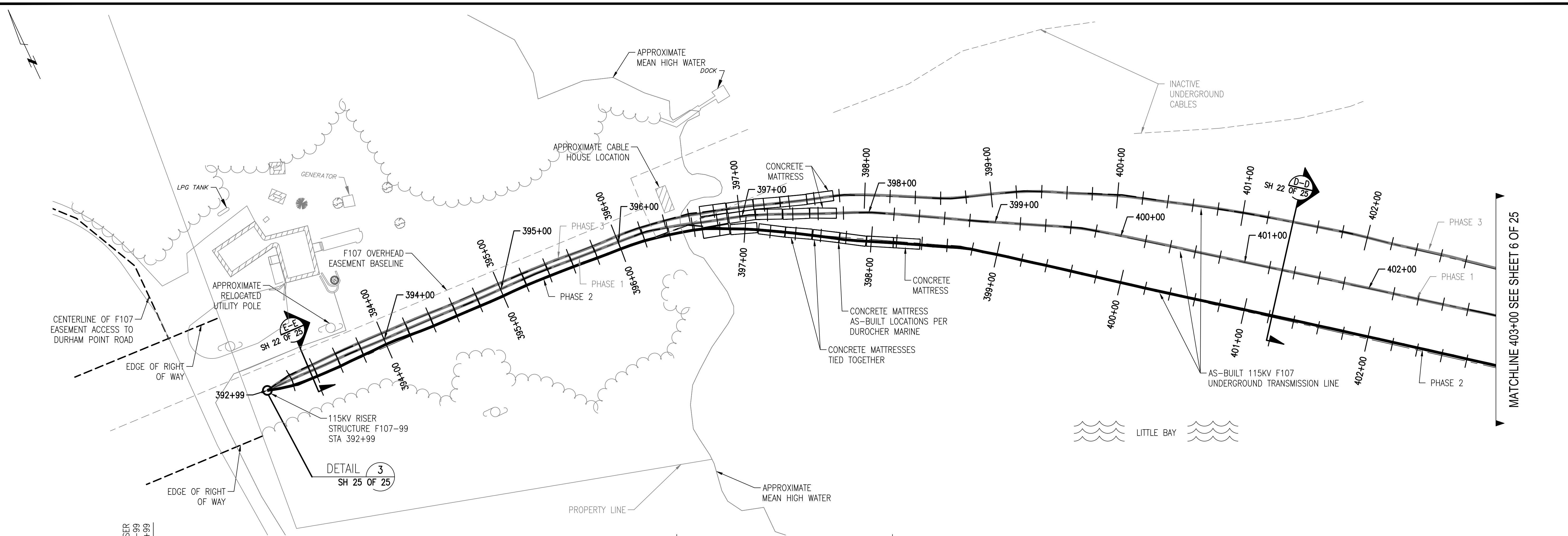
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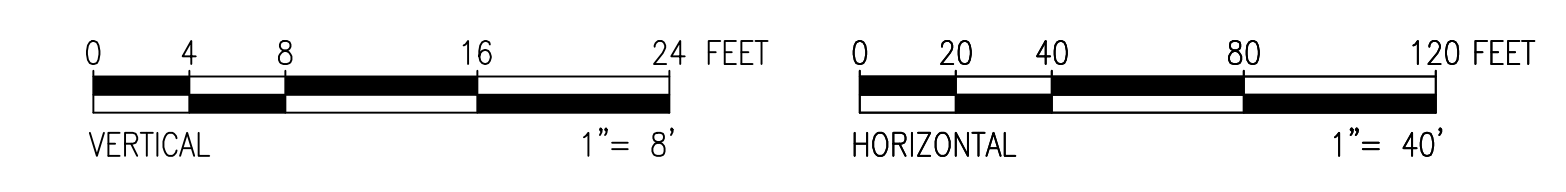
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| 2 | REVISED PER COMMENTS | 05/21/19 | TSB | TSB | TSB |
| 3 | REVISED PER COMMENTS | 06/11/19 | TSB | TSB | TSB |
| 4 | ISSUE FOR RECORD | 06/11/19 | PCW | TSB | TSB |

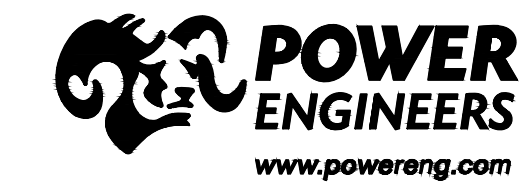


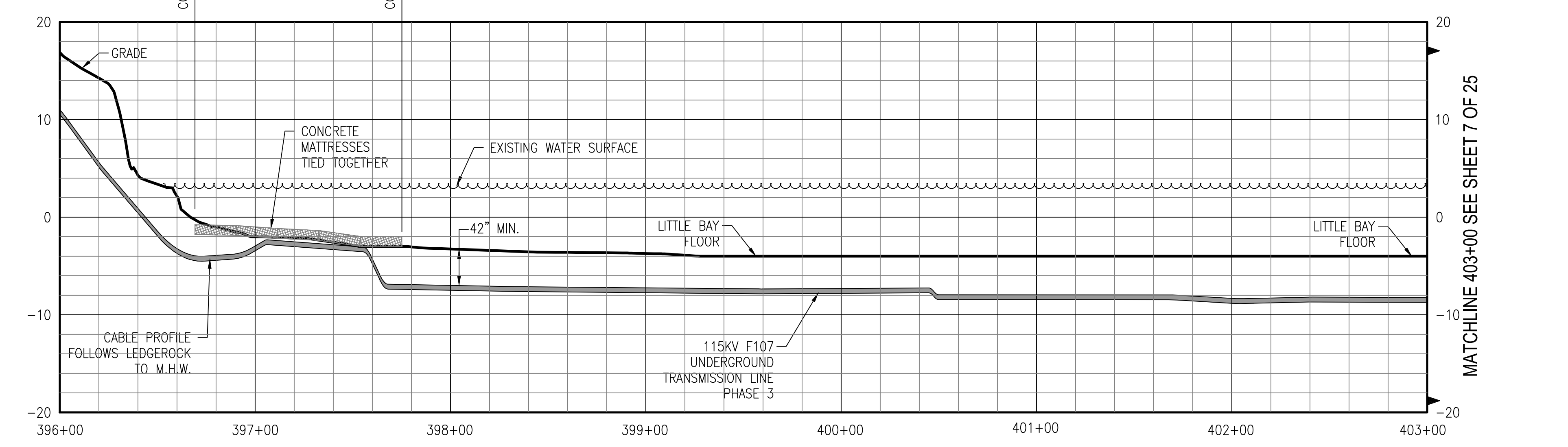
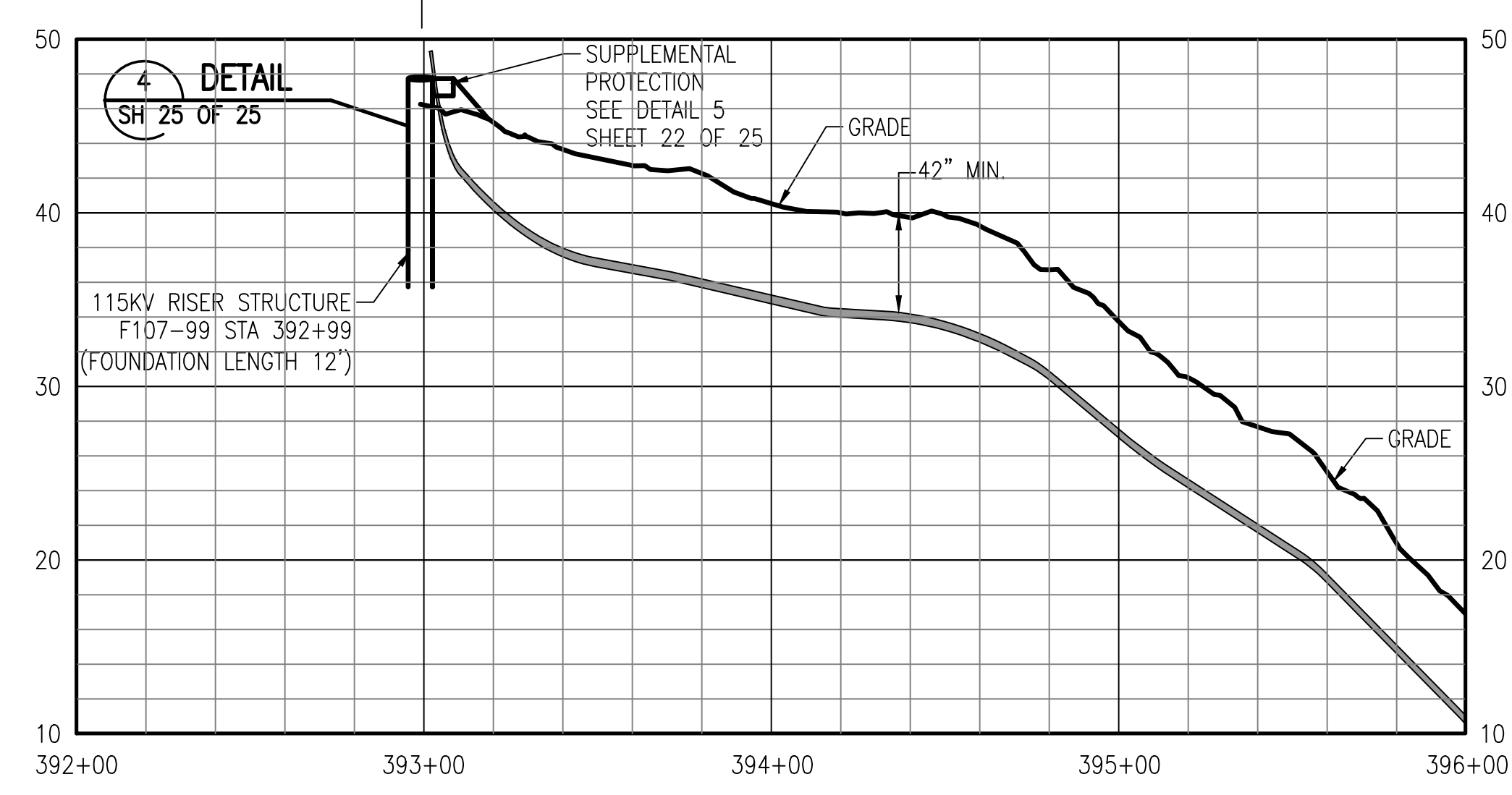
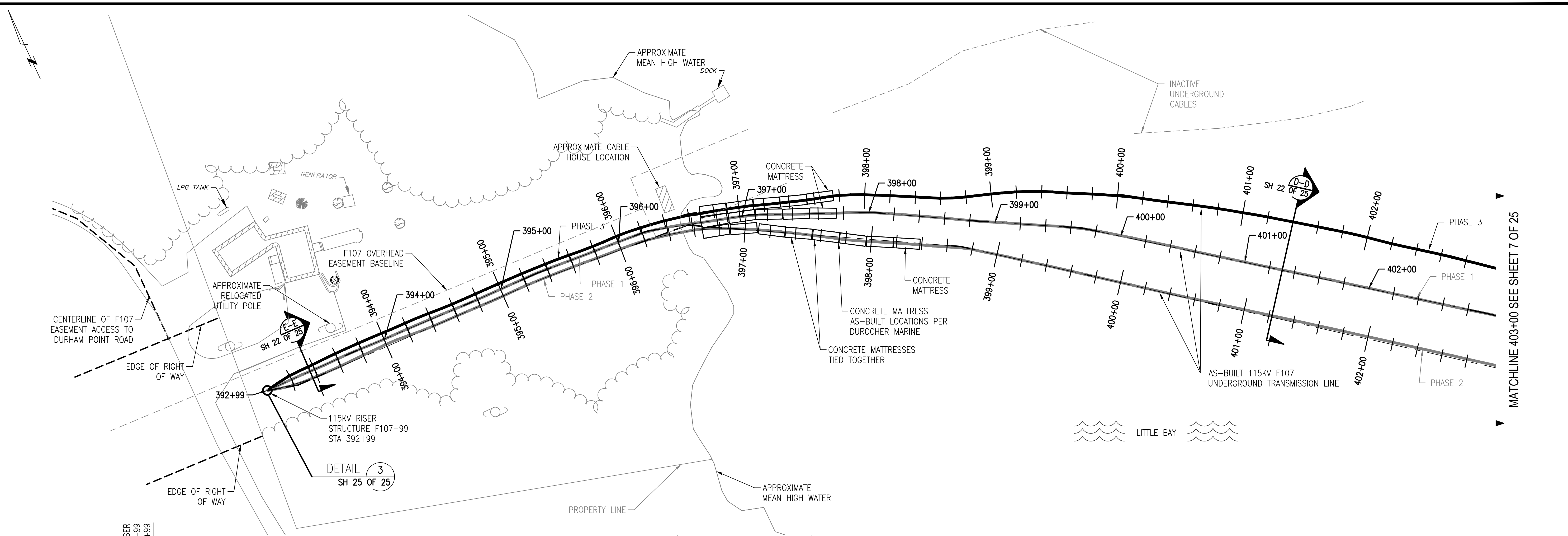
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'

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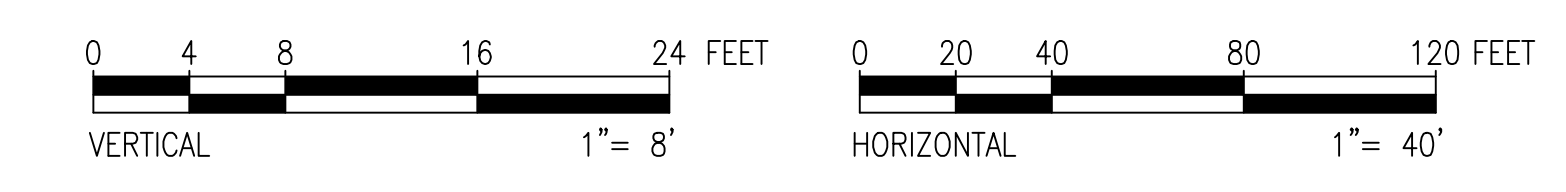
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| 2 | REVISED TRANSMISSION LINE | 02/25/19 | TSG | TSG | TSG |
| 3 | REVISED TRANSMISSION LINE | 02/25/19 | TSG | TSG | TSG |
| 4 | ISSUE FOR RECORD | 08/11/19 | TSG | TSG | TSG |



DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 TRANSMISSION LINE:
LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 4 OF 25
F10743003

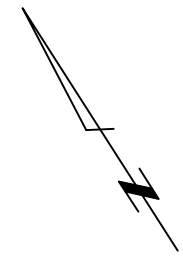
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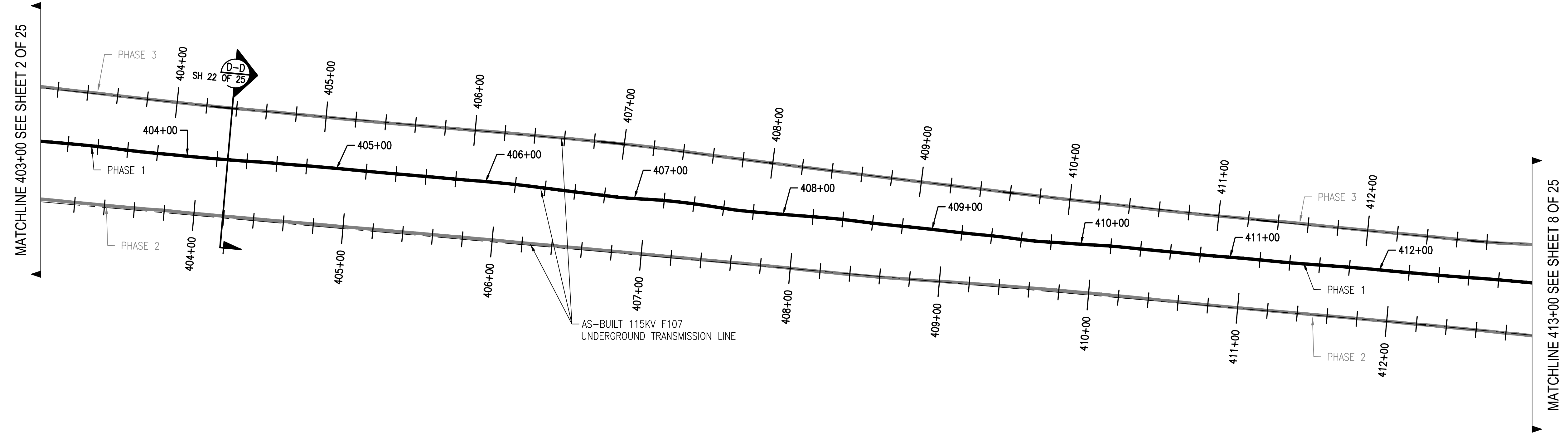
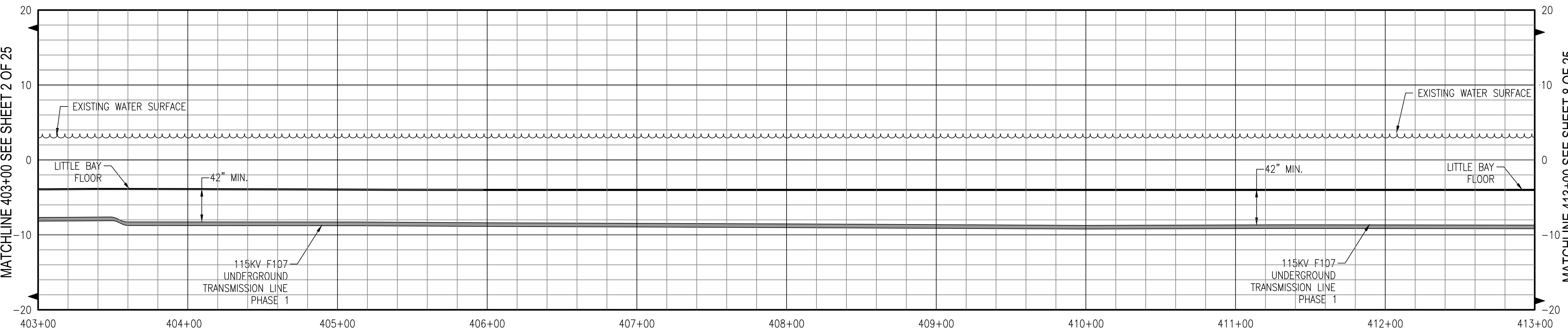
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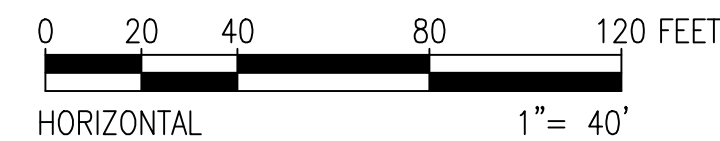
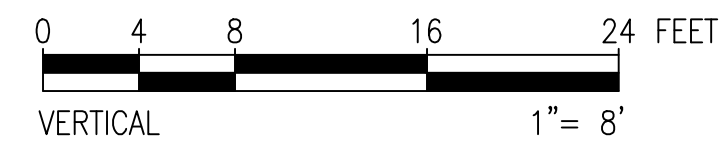


MATCHLINE 403+00 SEE SHEET 2 OF 25

MATCHLINE 403+00 SEE SHEET 2 OF 25



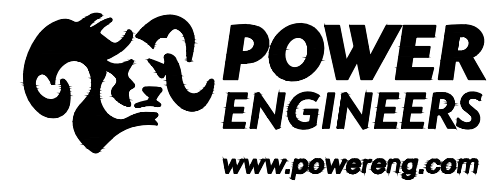
MATCHLINE 413+00 SEE SHEET 8 OF 25



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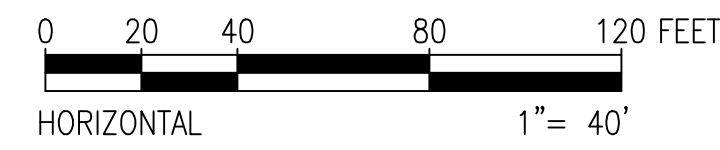
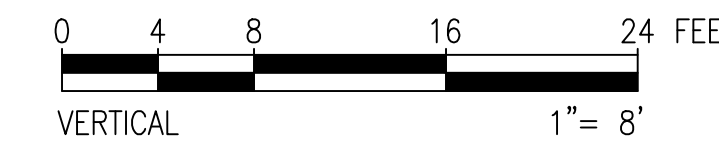
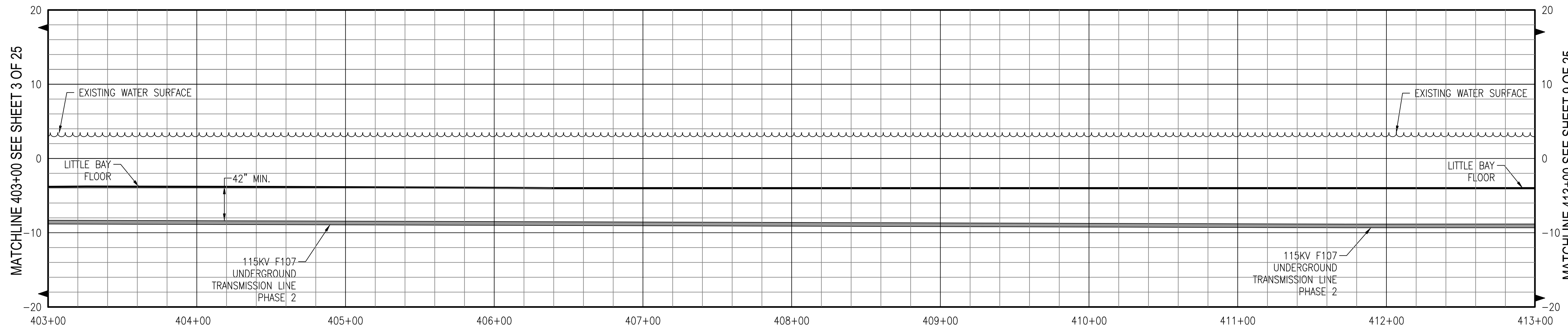
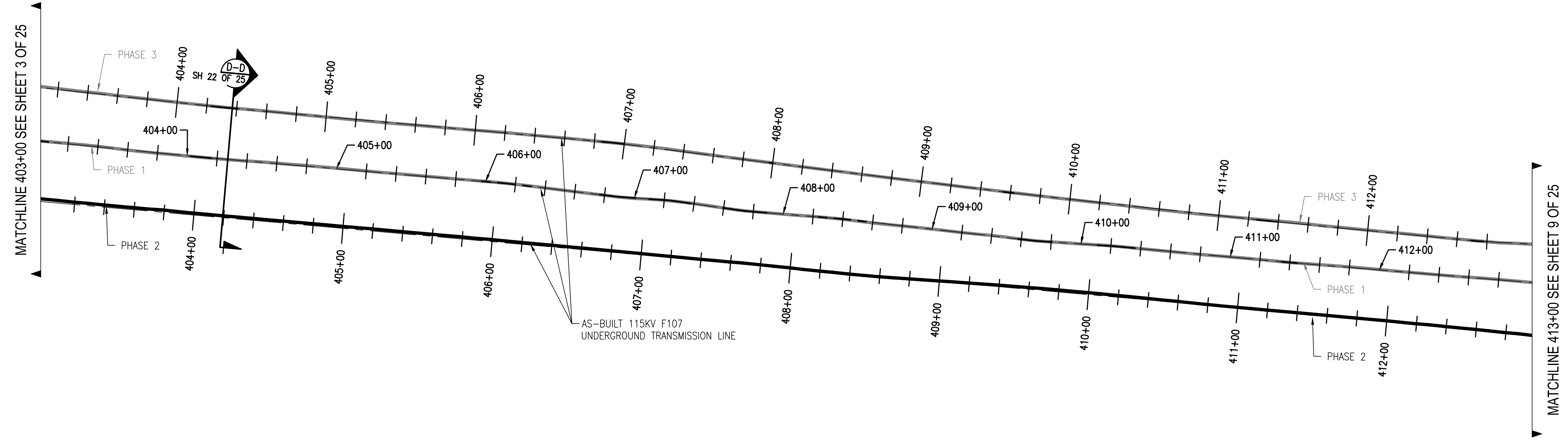
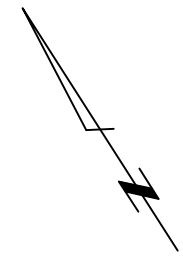
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| 3 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | ALUMBERT 5-2-20 |
| 2 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | 5-1-19 |
| 1 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | 5-1-19 |

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CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/1/2019
 SCALE: H: 1"=40', V: 1"=8'

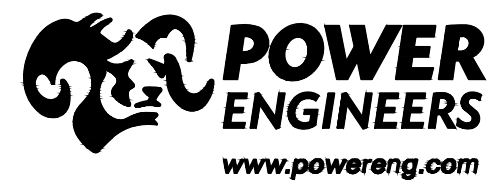
DES: REO | CHK: TSG
 DRW: REO | APR: TSG
 TOWN: DURHAM
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 5 OF 25
 F10743003



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| NO. | REVISION | DATE | DRWN | CHKD | APPRV. |
|-----|---|------|------|------|--------|
| 4 | ISSUE FOR RECORD WITH 7/2019 EPN-3466 W/ REVISIONS 6-1-20 | | PCM | | TSG |
| 3 | ISSUE FOR RECORD WITH 7/2019 EPN-3466 W/ REVISIONS 5-25-20 | | PCM | | TSG |
| 2 | ISSUE FOR CONSTRUCTION WITH 7/2019 EPN-3466 W/ REVISIONS 5-1-19 | | PCM | | TSG |
| 1 | ISSUE FOR CONSTRUCTION WITH 7/2019 EPN-3466 | | PCM | | TSG |

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CIRCUIT F107 115KV
UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW

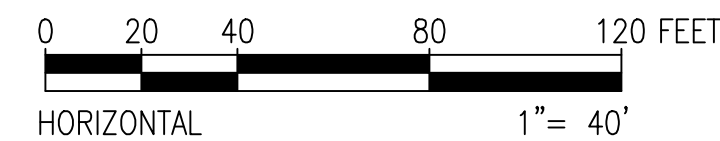
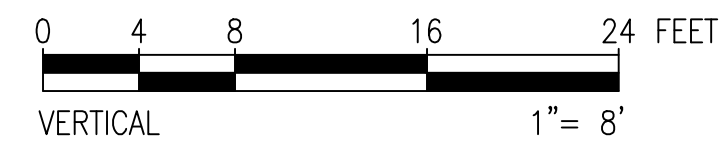
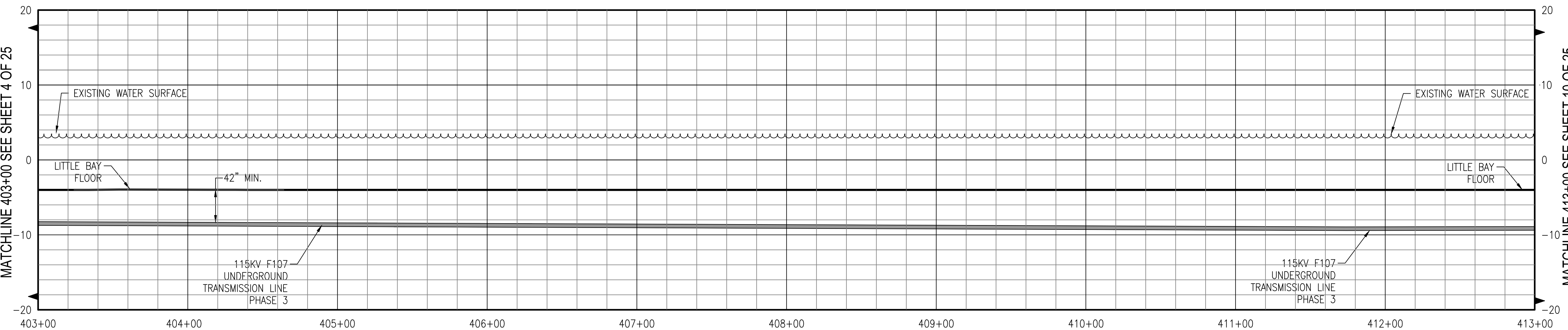
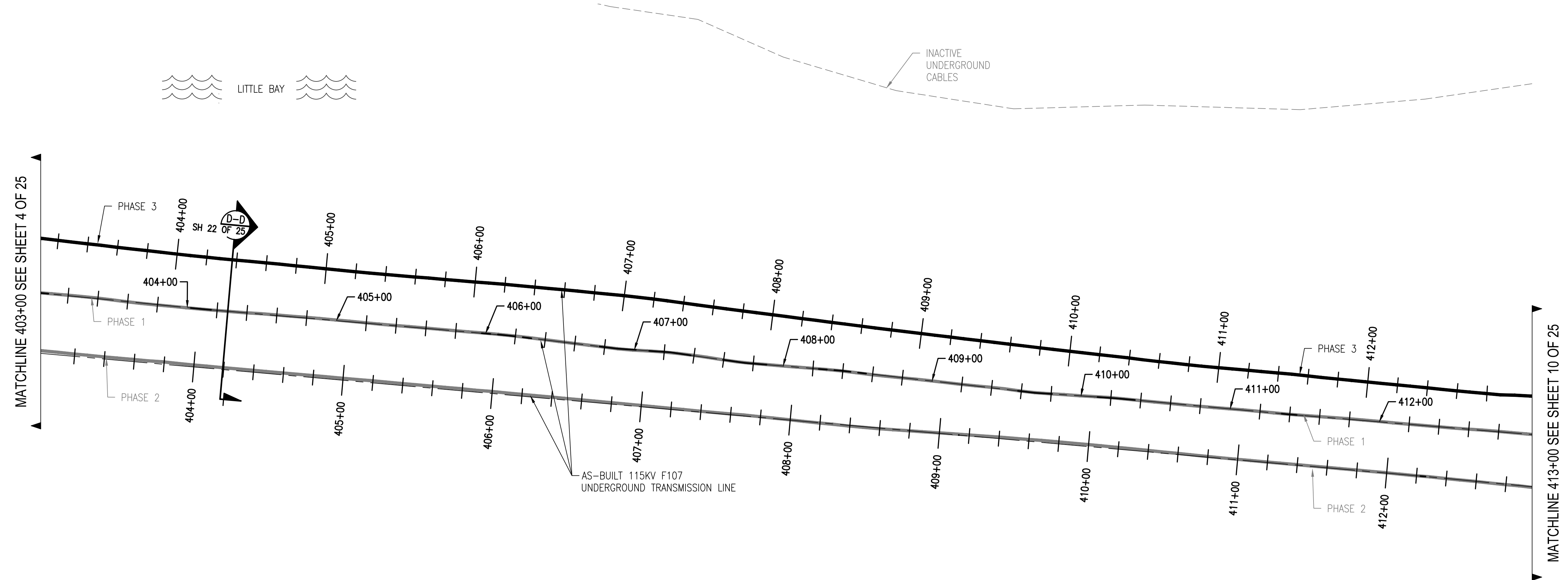
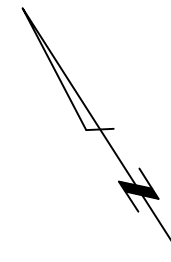
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SCALE: H: 1"=40', V: 1"=8'

DES: REO | CHK: TSG
DRW: REO | APR: TSG

TOWN:
DURHAM

TRANSMISSION LINE:
LINE

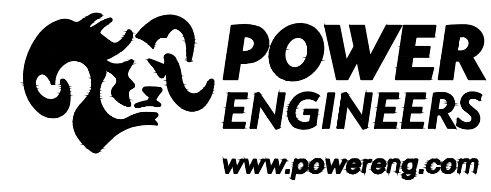
DISCIPLINE/SHT NO.
SHEET 6 OF 25
F10743003



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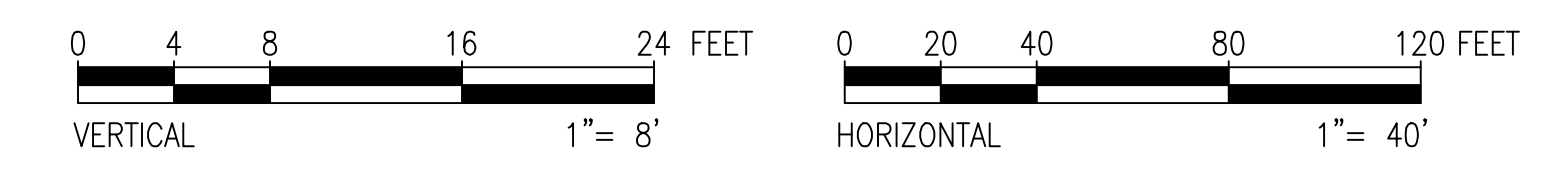
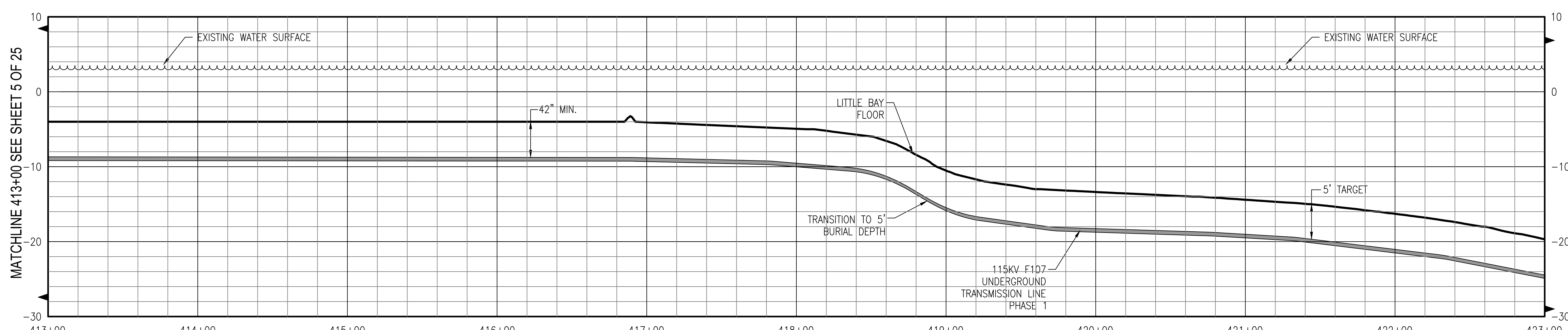
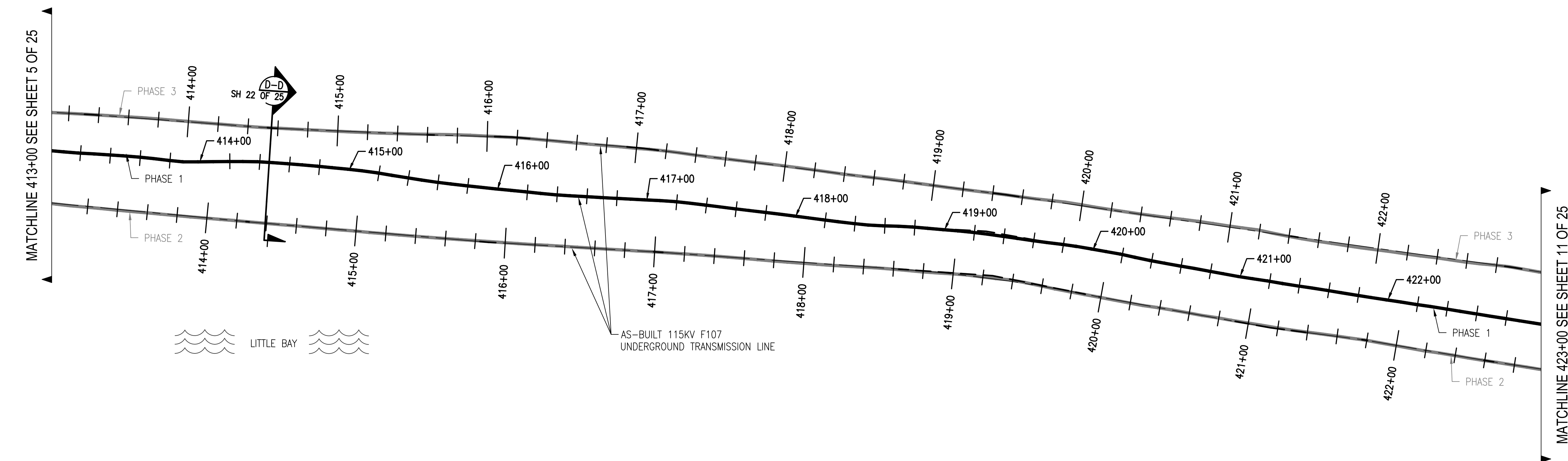
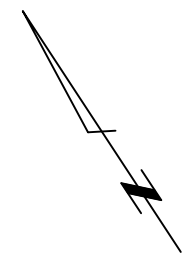
THREE BUSINESS DAYS BEFORE YOU DIG CALL
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| NO. | REVISION | DATE | DRWN | CHKD | APPRV. |
|-----|------------------------|------------|----------|------|--------------------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPH-3466 | M | TESTIMONIAL E-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | TESTIMONIAL E-1-20 |
| 2 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | TESTIMONIAL E-1-20 |
| 1 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPH-3466 | M | TESTIMONIAL E-1-20 |

EVERSOURCE
ENERGY

| | | |
|--|---|---|
| CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE | T | 4 |
| PLAN AND PROFILE VIEW | | |
| DATE: 3/1/2019 | | |
| SCALE: H: 1"=40', V: 1"=8' | | |
| DES: REO CHK: TSG | | |
| DRW: REO APR: TSG | | |
| TOWN: DURHAM | | |
| TRANSMISSION LINE: LINE | | |
| MILE NO: 8 & 9 | | |
| DISCIPLINE/SHT NO. | | |
| SHEET 7 OF 25 | | |
| F10743003 | | |



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| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|------------|---------|------|----------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPH-846 | WJ | TESTORIN |
| 3 | ISSUE FOR CONSTRUCTION | 03/11/19 | EPH-846 | WJ | TESTORIN |
| 2 | ISSUE FOR CONSTRUCTION | 02/22/19 | EPH-846 | WJ | TESTORIN |
| 1 | ISSUE FOR CONSTRUCTION | 01/19/19 | EPH-846 | WJ | TESTORIN |

EVERSOURCE
ENERGY

T 4

CIRCUIT F107 115KV
UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW

DATE: 3/7/2019
SCALE: H. 1"=40', V. 1"=8'

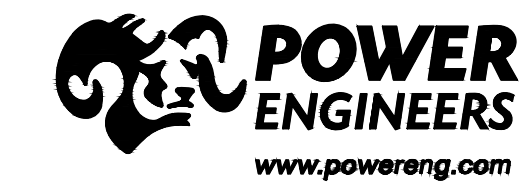
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DRW: REO APR: TSG

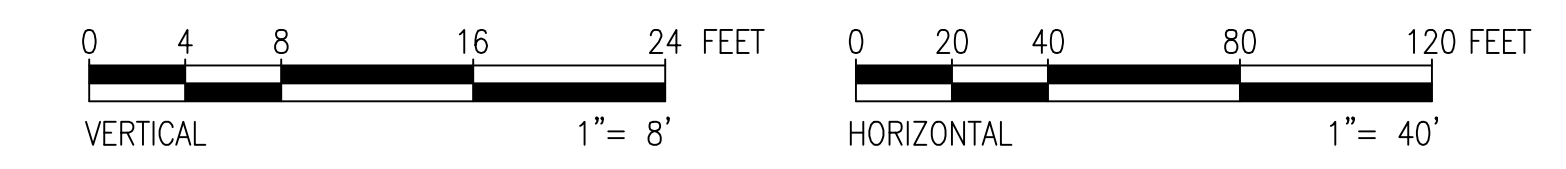
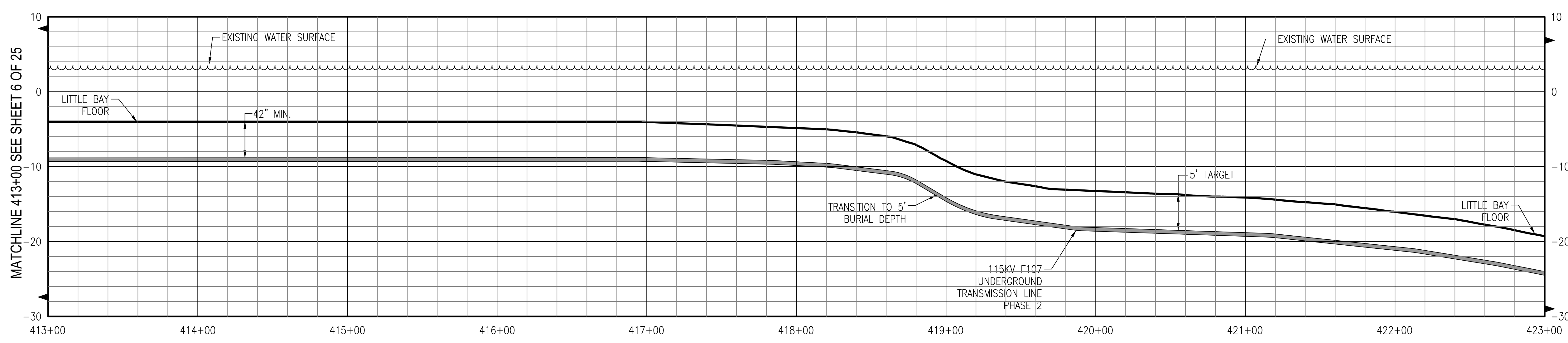
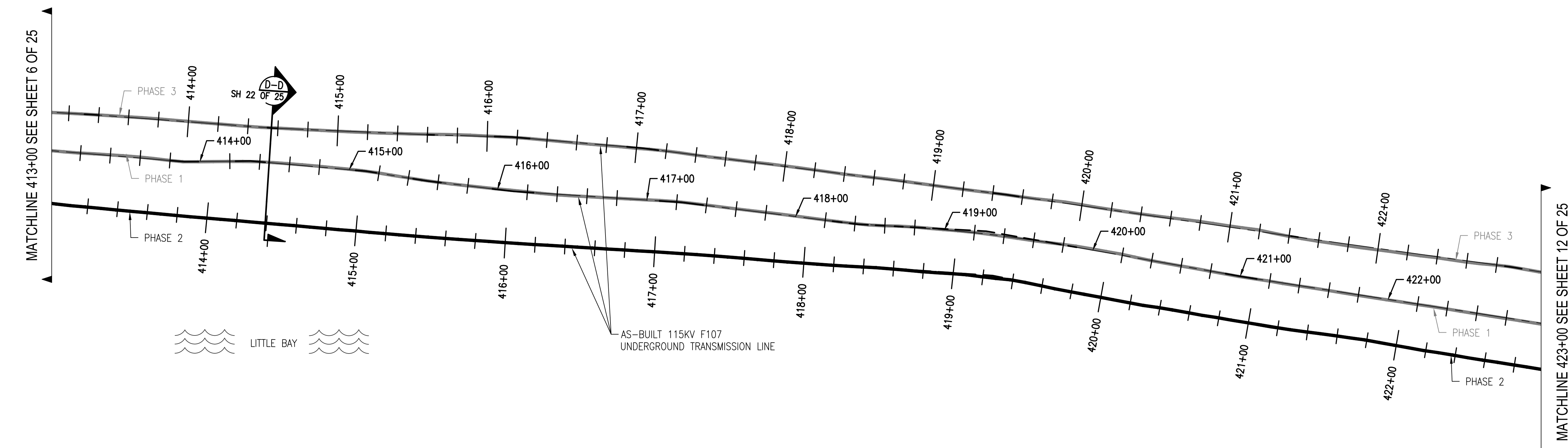
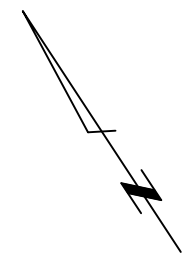
TOWN:
DURHAM

TRANSMISSION LINE:
LINE

MILE NO: 8 & 9
DISCIPLINE/SHT NO.

SHEET 8 OF 25
F10743003





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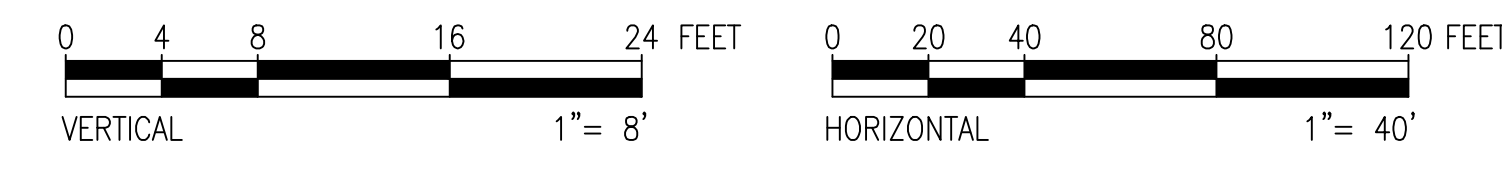
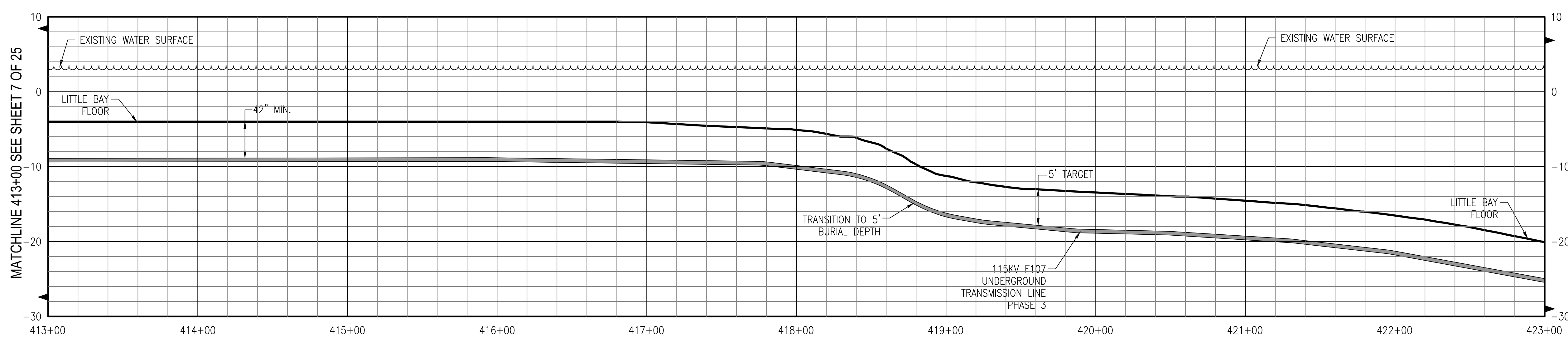
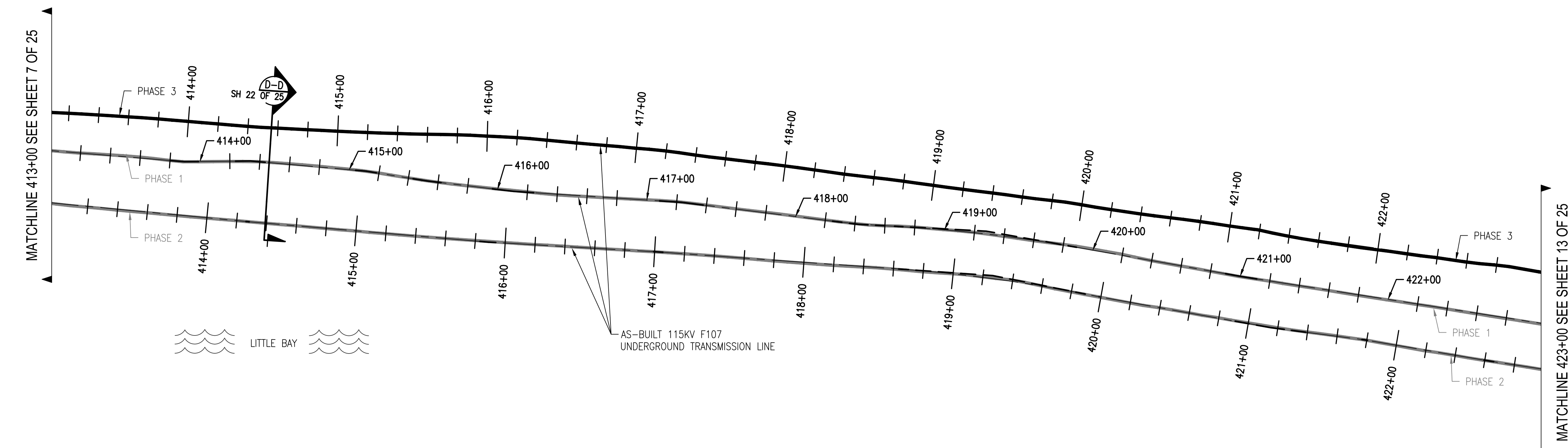
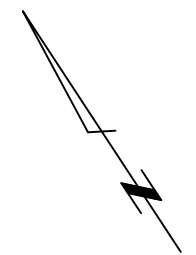
| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|------------|----------|--------------|--------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPN-9466 | W. JESTERSON | 8-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-9466 | W. JESTERSON | 8-1-20 |
| 2 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-9466 | W. JESTERSON | 8-1-20 |
| 1 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-9466 | W. JESTERSON | 8-1-20 |

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'

| | | | |
|---------------------|---------------|------|-----|
| DES.: | REO | CHK: | TSG |
| DRW.: | REO | APR: | TSG |
| TOWN: | DURHAM | | |
| TRANSMISSION LINE: | LINE | | |
| MILE NO.: | 8 | & | 9 |
| DISCIPLINE/SHT NO.: | SHEET 9 OF 25 | | |
| F10743003 | | | |





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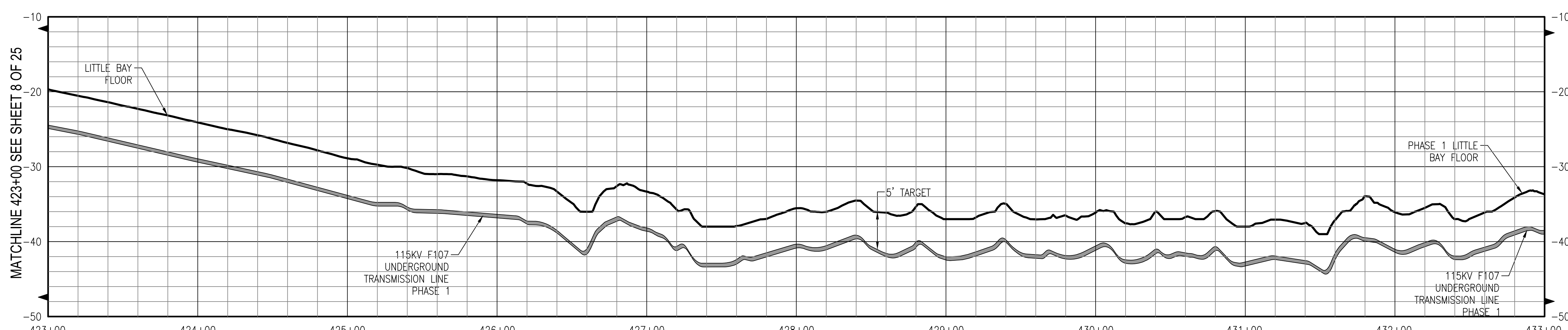
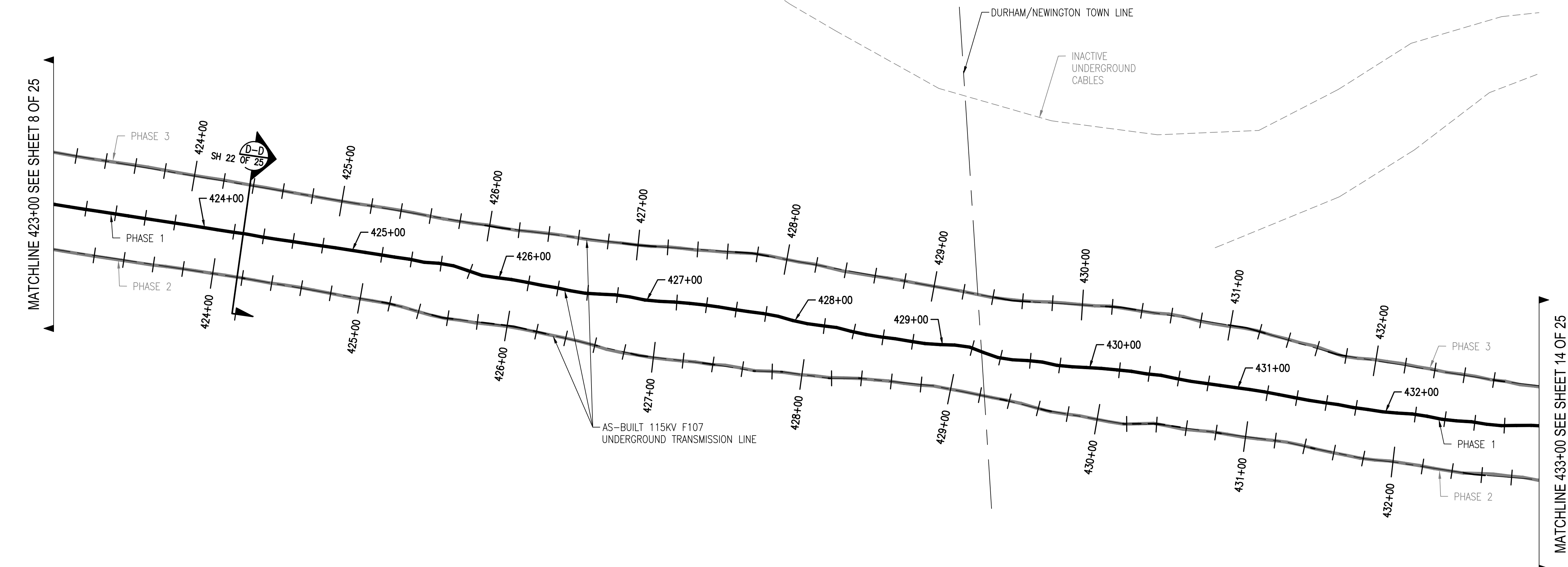
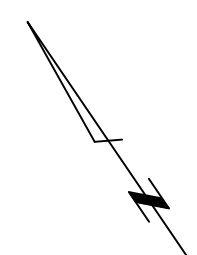
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| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|------------|---------|--------------|--------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPN-846 | W. JESTERSON | 8-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-846 | W. JESTERSON | 8-1-20 |
| 2 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-846 | W. JESTERSON | 8-1-20 |
| 1 | ISSUE FOR CONSTRUCTION | 04/17/2019 | EPN-846 | W. JESTERSON | 8-1-20 |

EVERSOURCE
ENERGY

CIRCUIT F107 115KV
UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

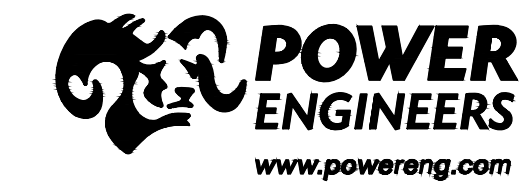




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| NO. | REVISION | DATE | DRWN | CHKD | APPRV. |
|-----|------------------------|------------|---------|------|-------------------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPN-846 | WJ | TESTORUN 02-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 03/22/19 | EPN-846 | WJ | TESTORUN 02-23-19 |
| 2 | ISSUE FOR CONSTRUCTION | 03/22/19 | EPN-846 | WJ | TESTORUN 02-23-19 |
| 1 | ISSUE FOR CONSTRUCTION | 03/11/19 | EPN-846 | WJ | TESTORUN 02-23-19 |

EVERSOURCE
ENERGY

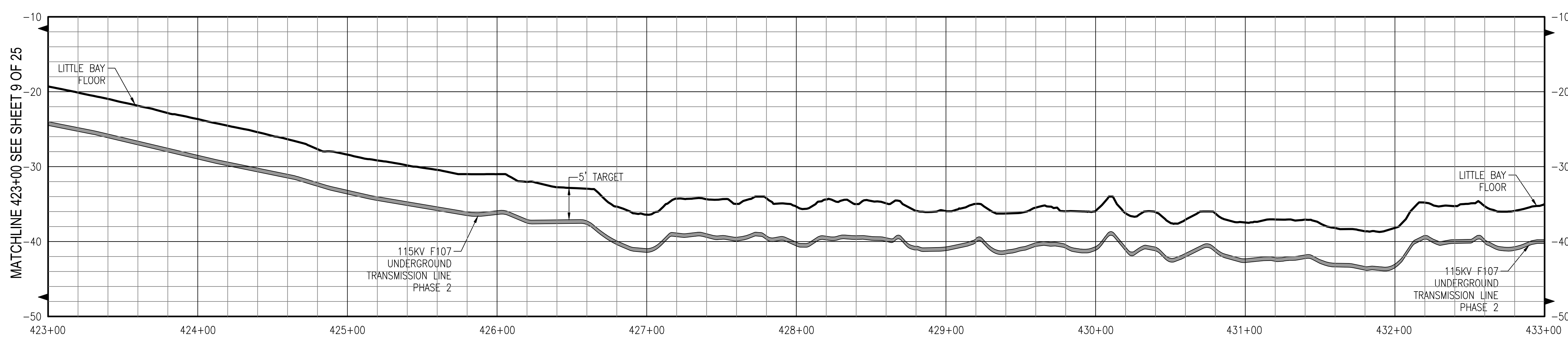
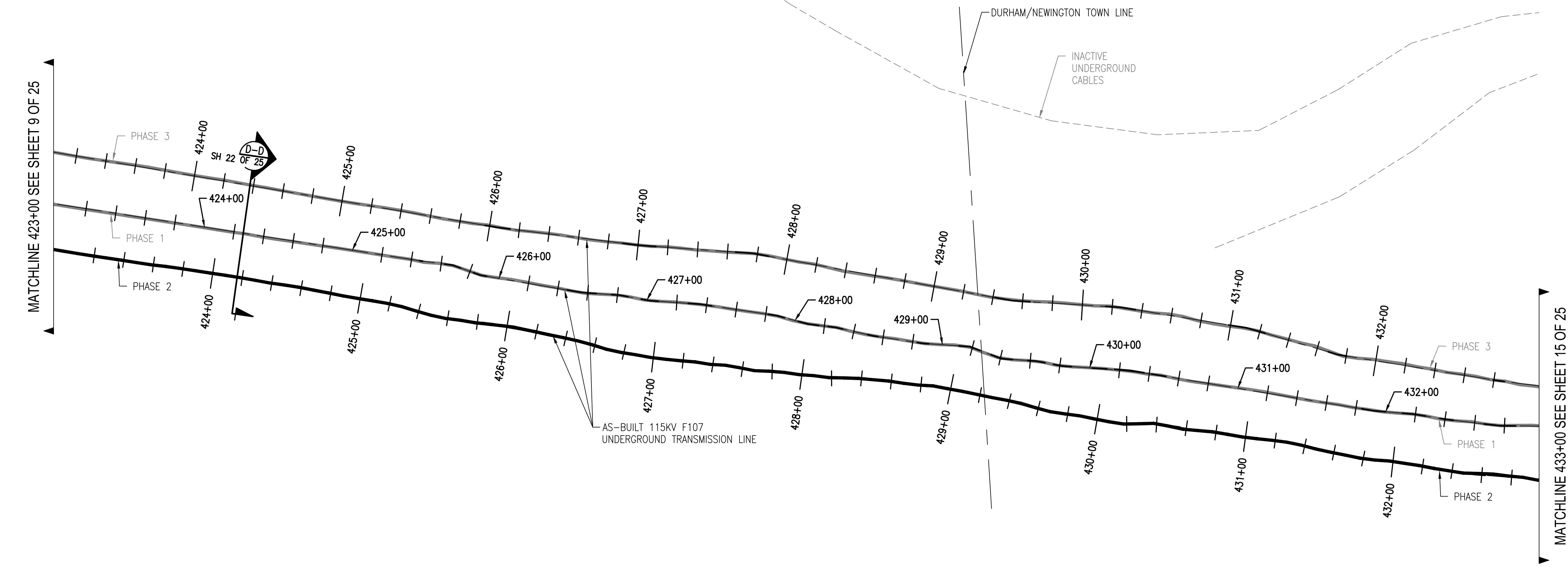
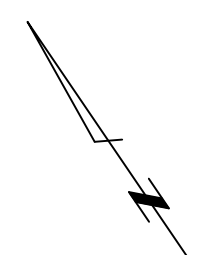
T 4

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

DES: REO
CHK: TSG
DRW: REO
APR: TSG

TOWN: DURHAM & NEWINGTON
TRANSMISSION LINE: LINE
MILE NO: 8 & 9
DISCIPLINE/SHT NO.

SHEET 11 OF 25
F10743003

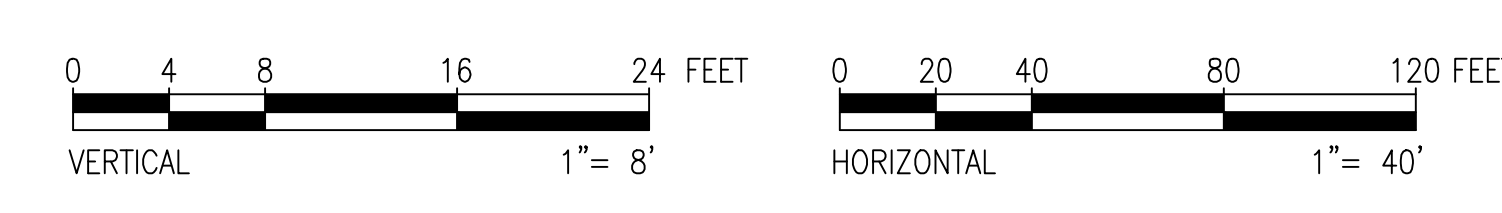


MATCHLINE 423+00 SEE SHEET 9 OF 25

MATCHLINE 433+00 SEE SHEET 15 OF 25

MATCHLINE 423+00 SEE SHEET 9 OF 25

MATCHLINE 433+00 SEE SHEET 15 OF 25



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| NO. | REVISION | DATE | DRAWN | CHECKED | APPROVED |
|-----|------------------------|------------|----------|---------|-------------------|
| 4 | ISSUE FOR RECORD | 04/17/2019 | EPH-9466 | WJ | TESTORUN 02-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 03/22/19 | EPH-9466 | WJ | TESTORUN 02-23-19 |
| 2 | ISSUE FOR CONSTRUCTION | 03/22/19 | EPH-9466 | WJ | TESTORUN 02-23-19 |
| 1 | ISSUE FOR CONSTRUCTION | 03/11/19 | EPH-9466 | WJ | TESTORUN 02-23-19 |

EVERSOURCE
ENERGY

T 4

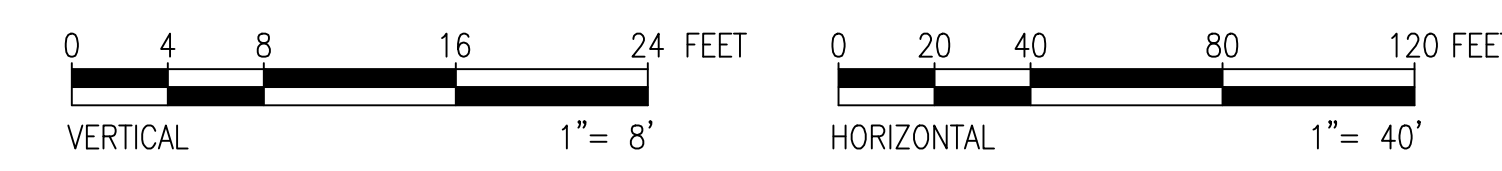
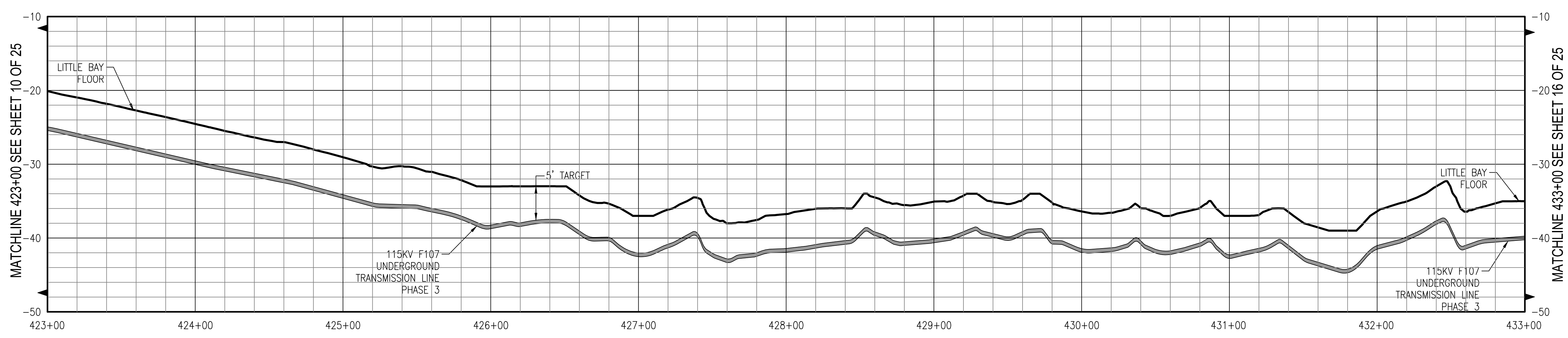
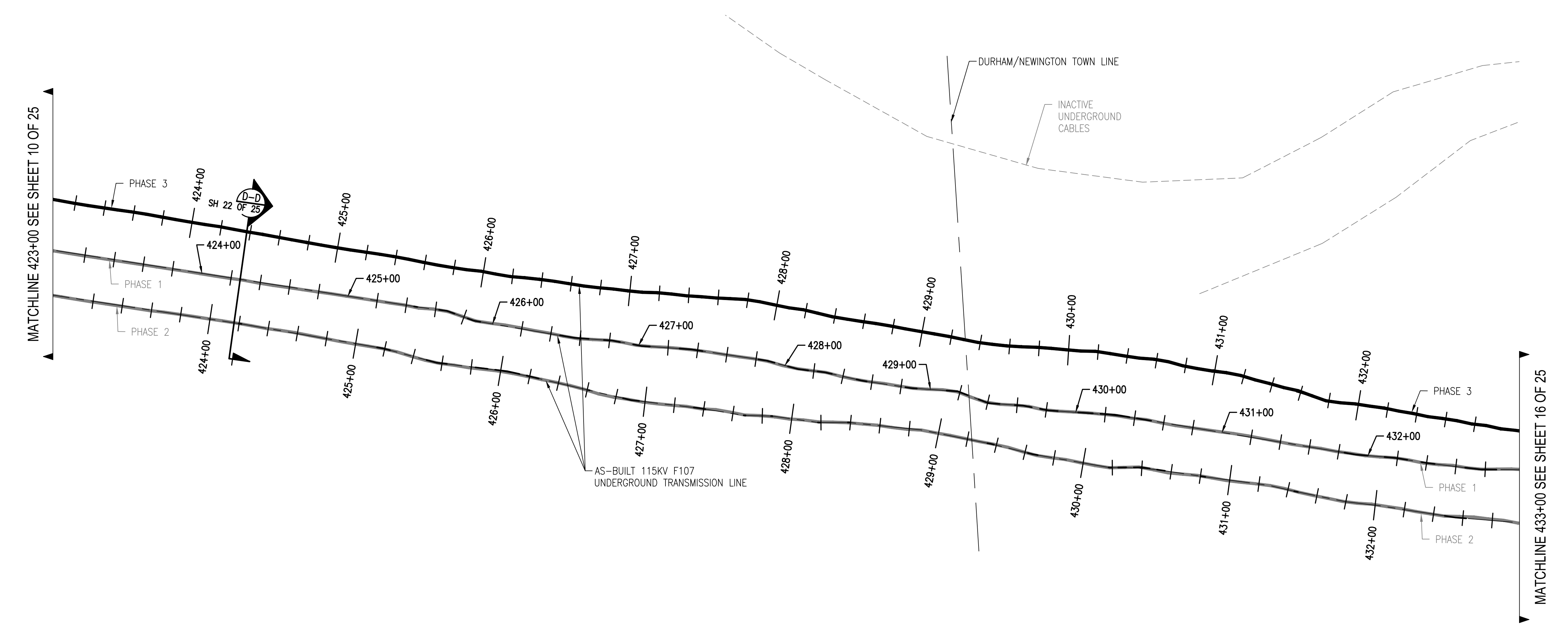
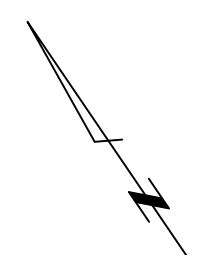
DATE: 3/7/2019

CIRCUIT: F107 115KV UNDERGROUND TRANSMISSION LINE

PLAN AND PROFILE VIEW

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

DES: REO
 DRW: REO
 TOWN: DURHAM & NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO. SHEET 12 OF 25
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| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05-11-19 | DRW | TSG | TSG |
| 2 | REVISED DRAWING | 05-23-19 | DRW | TSG | TSG |
| 3 | REVISED DRAWING | 05-23-19 | DRW | TSG | TSG |
| 4 | ISSUE FOR RECORD | 05-11-20 | PCW | RED | TSG |

EVERSOURCE
ENERGY

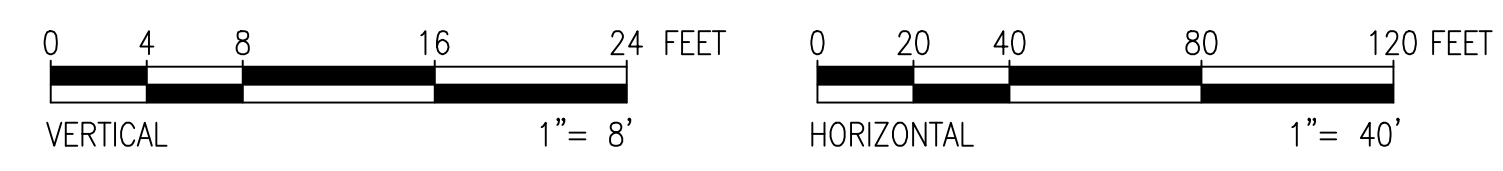
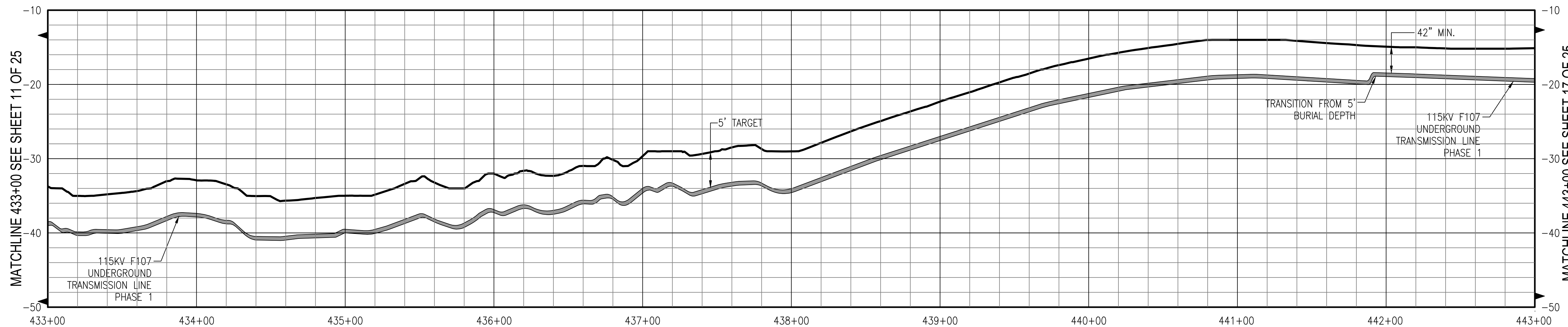
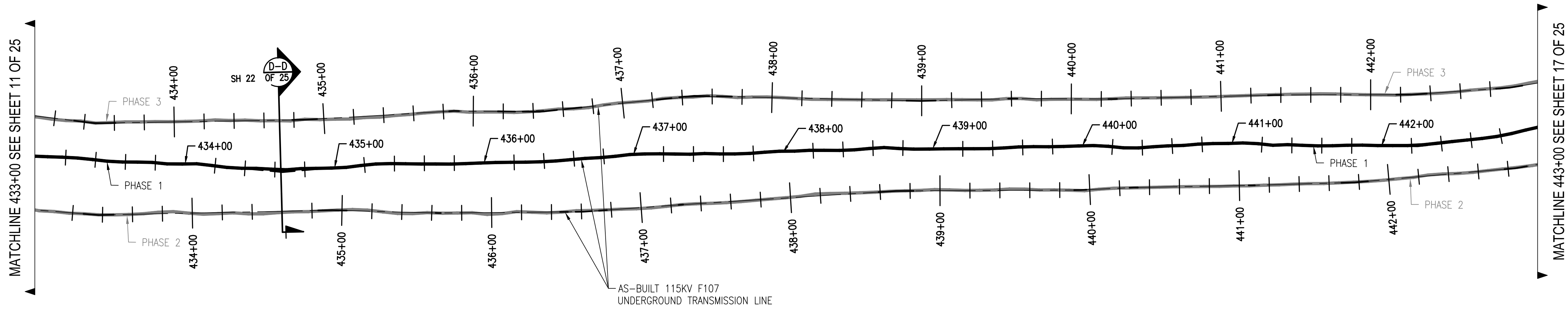
T 4

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/1/2019
 SCALE: H: 1"=40', V: 1"=8'

DES: RED
 CHK: TSG
 DRW: RED
 APR: TSG

TOWN: DURHAM & NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.

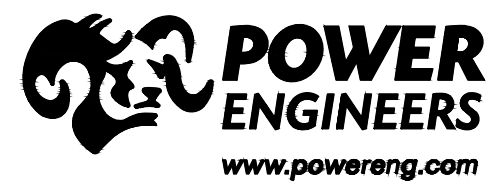
SHEET 13 OF 25
 F10743003



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| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05-1-19 | REG | TSG | TSG |
| 2 | ISSUE FOR CONSTRUCTION | 05-23-19 | REG | TSG | TSG |
| 3 | ISSUE FOR CONSTRUCTION | 05-23-19 | REG | TSG | TSG |
| 4 | ISSUE FOR RECORD | 05-1-20 | PCM | REG | TSG |

EVERSOURCE ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
DATE: 3/7/2019
SCALE: H: 1"=40', V: 1"=8'

T 4

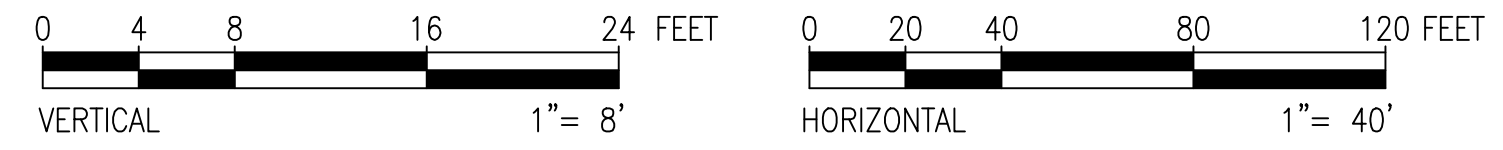
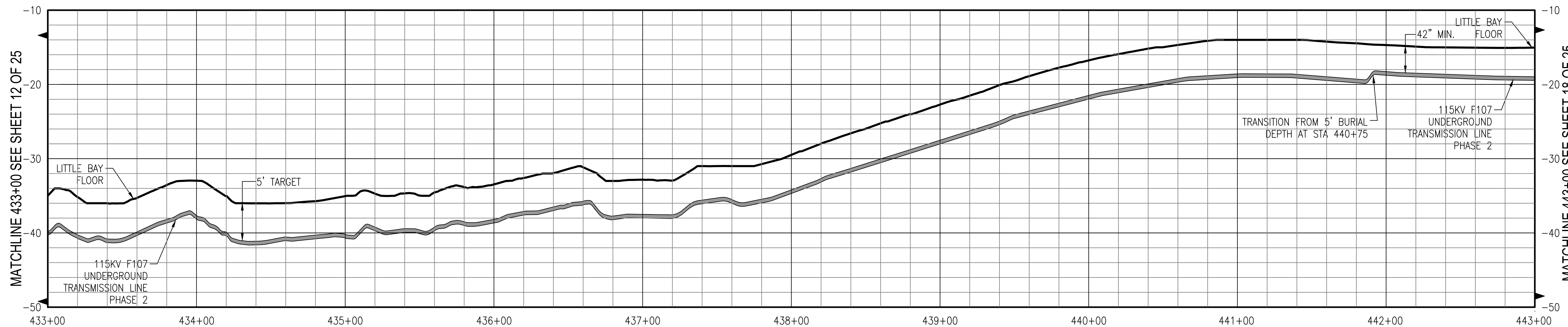
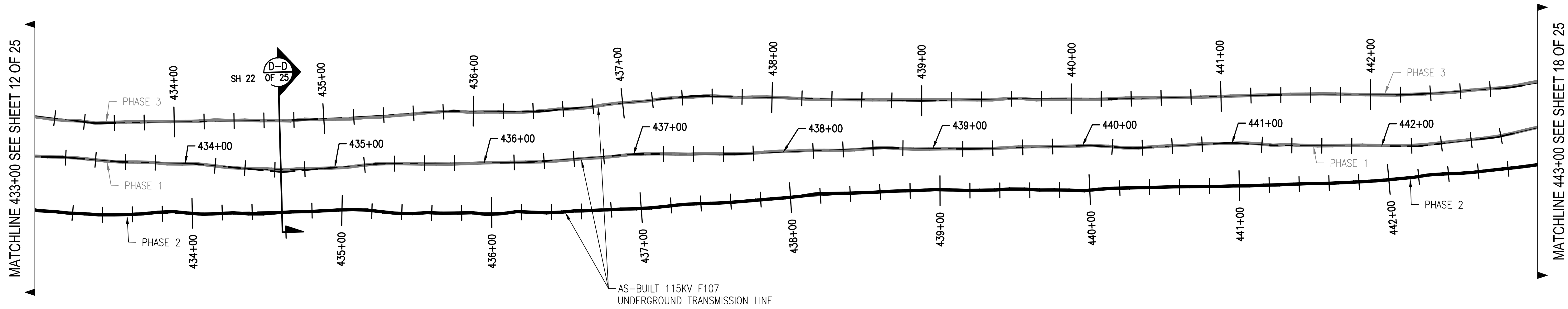
DES: REG
CHK: TSG
DRW: REG
APR: TSG

TOWN: NEWINGTON
TRANSMISSION LINE: LINE

DISCIPLINE/SHT NO. LINE

MILE NO: 8 & 9

SHEET 14 OF 25
F10743003



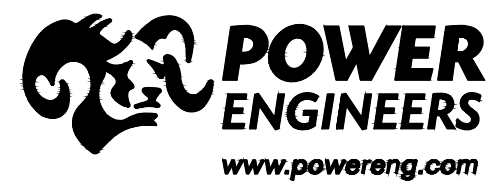
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 Know what's below.
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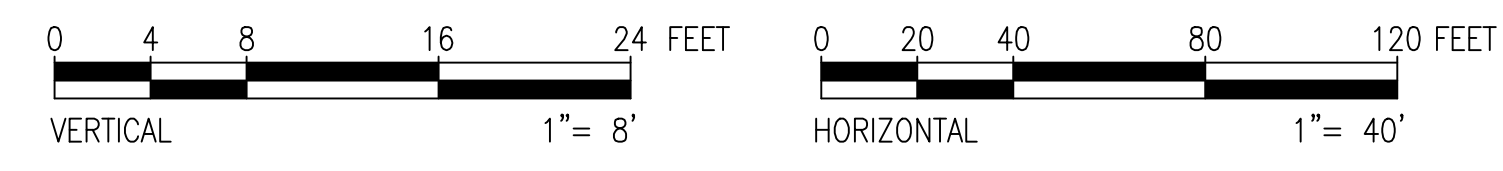
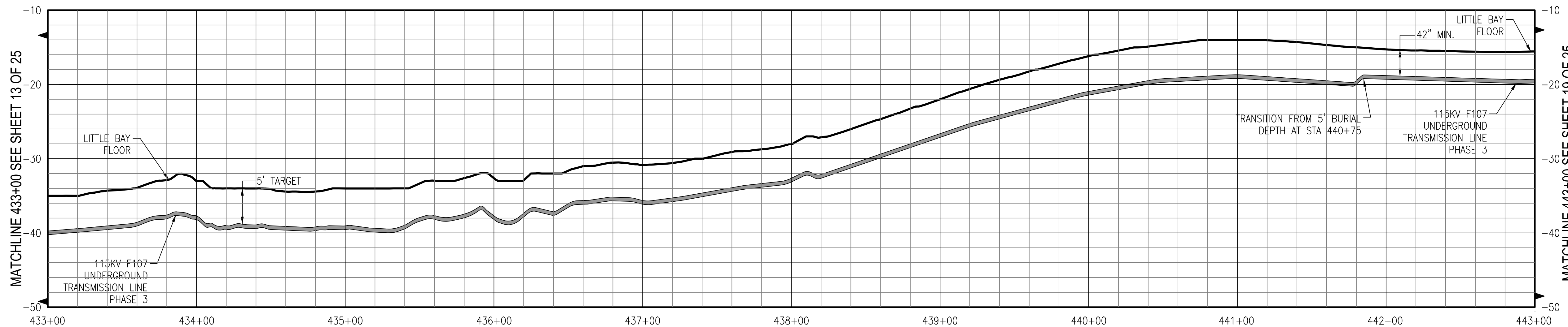
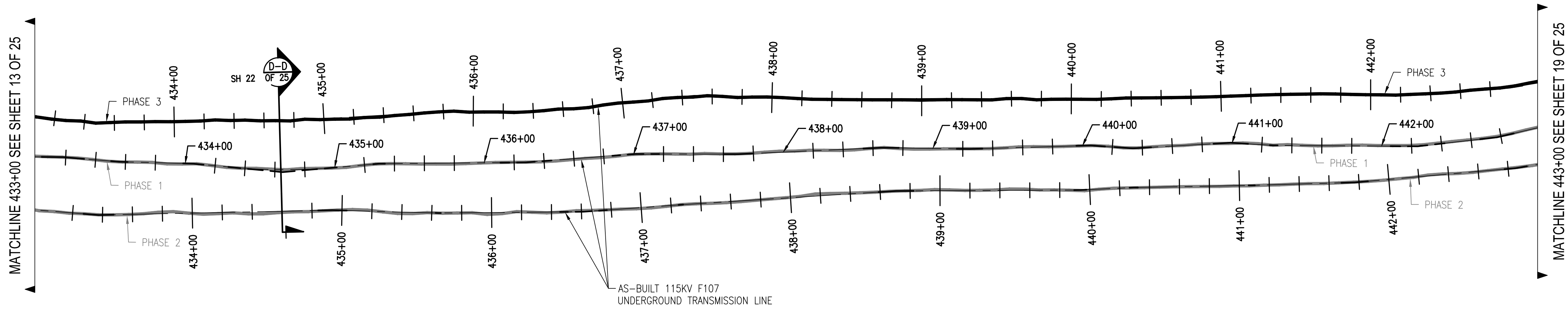
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| NO. | REVISION | DATE | DRAWN | CHECKED | APPROVED |
|-----|------------------------|----------|---------|---------|------------------|
| 4 | ISSUE FOR RECORD | 07/20/20 | EPN-R66 | W/ | REVISION 02-1-20 |
| 3 | ISSUE FOR CONSTRUCTION | 05/22/20 | EPN-R66 | W/ | REVISION 02-2-20 |
| 2 | ISSUE FOR CONSTRUCTION | 05/22/20 | EPN-R66 | W/ | REVISION 02-2-20 |
| 1 | ISSUE FOR CONSTRUCTION | 05/11/19 | EPN-R66 | W/ | REVISION 02-1-19 |

EVERSOURCE
 ENERGY

T 4
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 TRANSMISSION LINE:
 LINE
 SHEET 15 OF 25
 F10743003





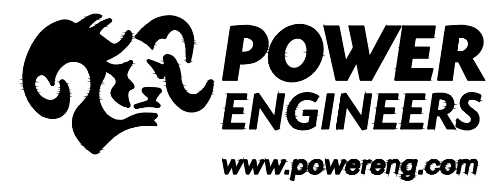
811
Know what's below.
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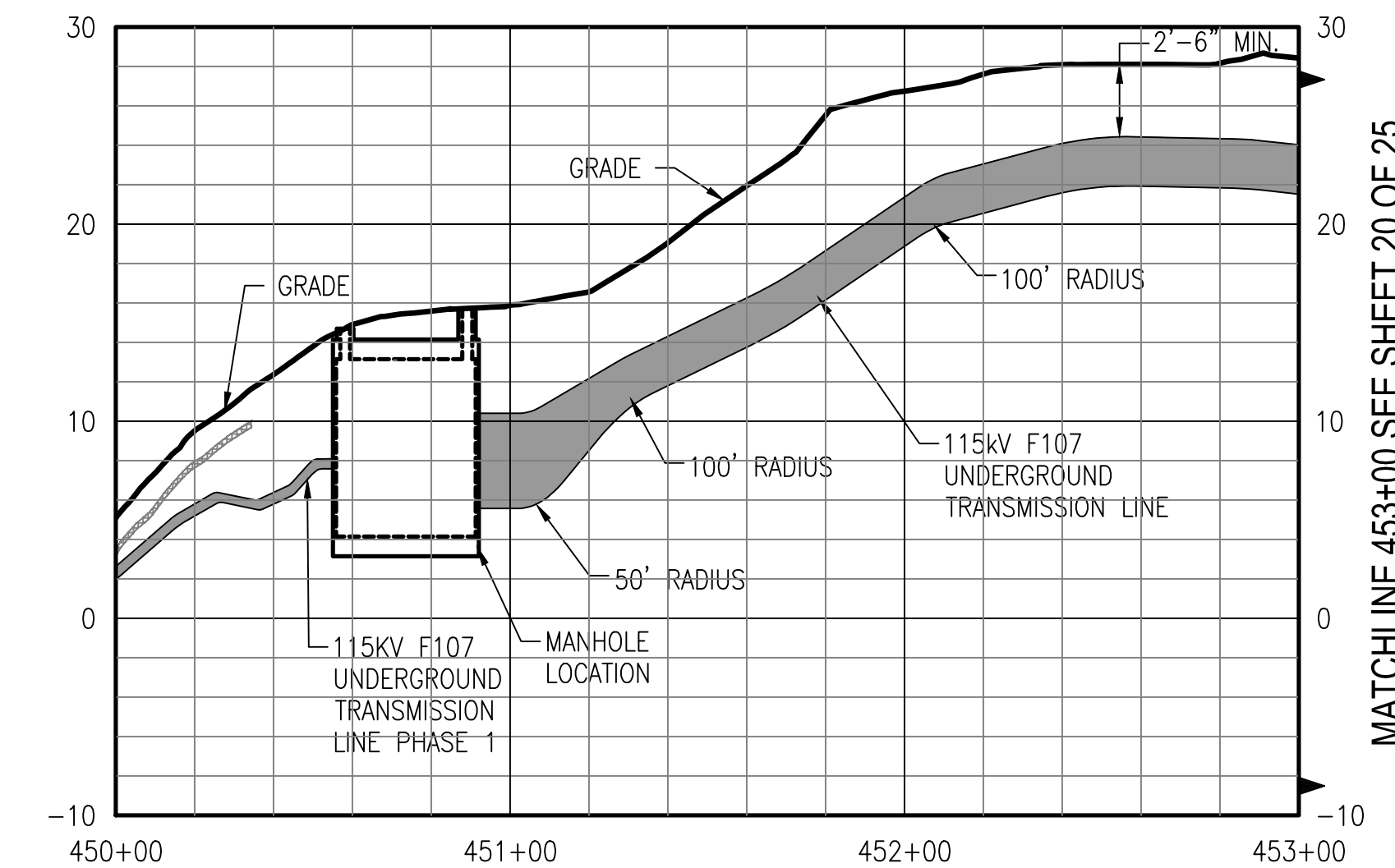
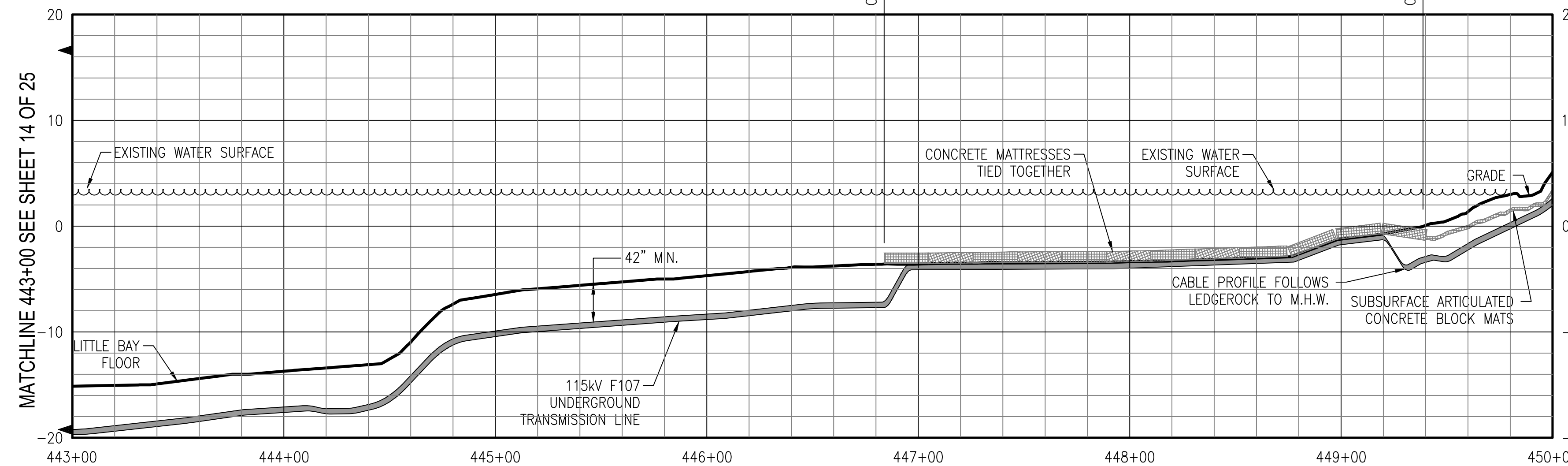
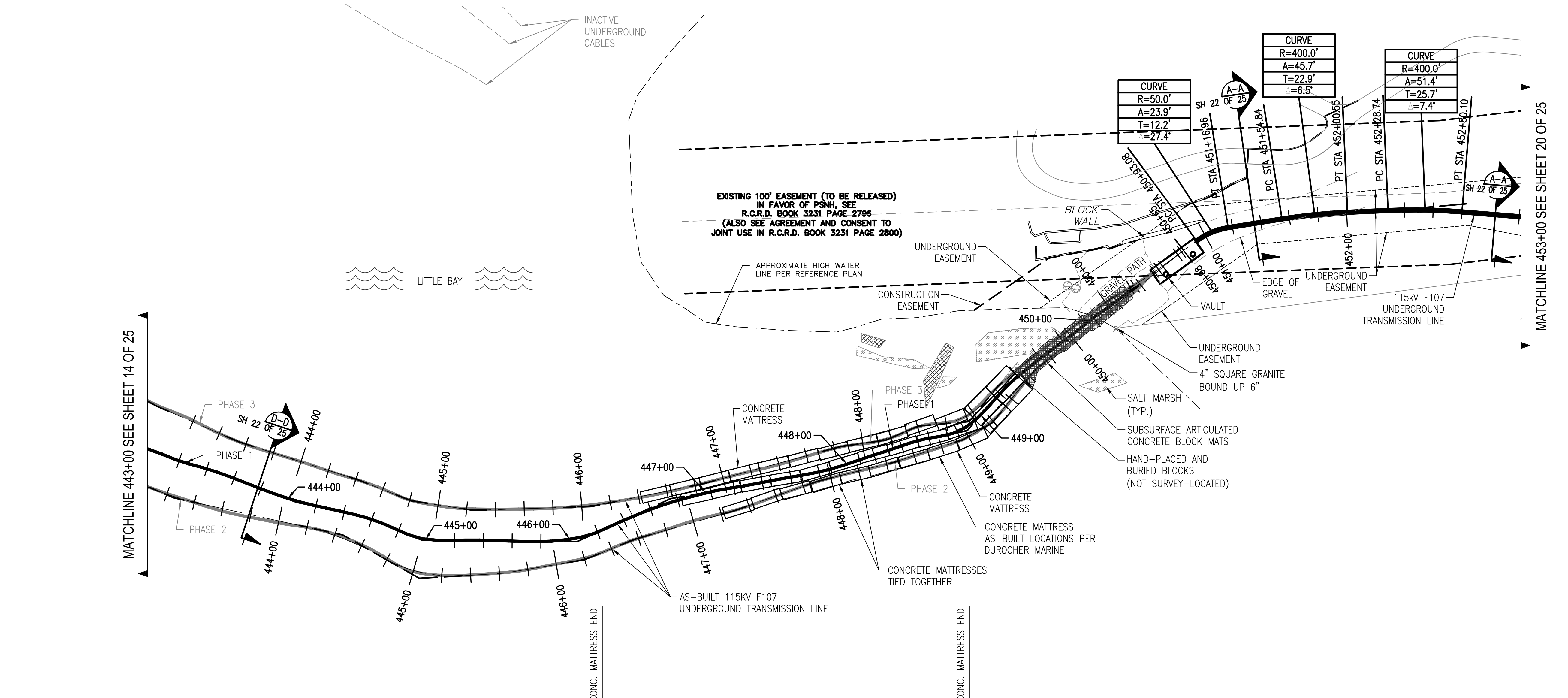
THREE BUSINESS DAYS BEFORE YOU DIG CALL
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| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05-11-19 | REG | TSG | TSG |
| 2 | REVISED DRAWING | 05-23-19 | REG | TSG | TSG |
| 3 | REVISED DRAWING | 05-23-19 | REG | TSG | TSG |
| 4 | ISSUE FOR RECORD | 05-11-20 | PCM | REG | TSG |

EVERSOURCE
ENERGY

T 4
DATE: 3/7/2019
CIRCUIT: F107 115KV UNDERGROUND TRANSMISSION LINE
PLAN AND PROFILE VIEW
SCALE: H: 1"=40', V: 1"=8'
TOWN: NEWINGTON
TRANSMISSION LINE: LINE
MILE NO: 8 & 9
DISCIPLINE/SHT NO.
SHEET 16 OF 25
F10743003



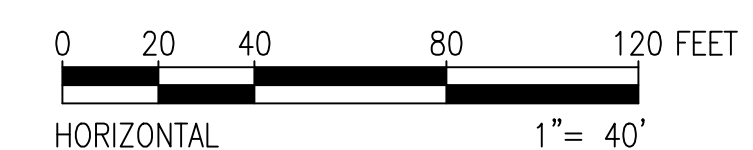
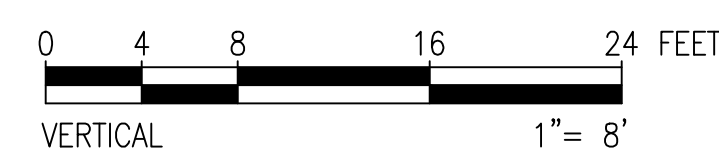


MATCHLINE 443+00 SEE SHEET 14 OF 25

MATCHLINE 453+00 SEE SHEET 20 OF 25

MATCHLINE 443+00 SEE SHEET 14 OF 25

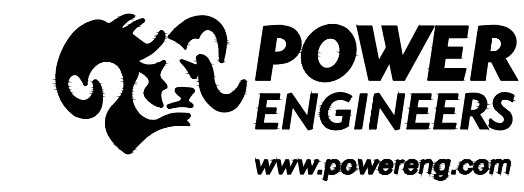
MATCHLINE 453+00 SEE SHEET 20 OF 25



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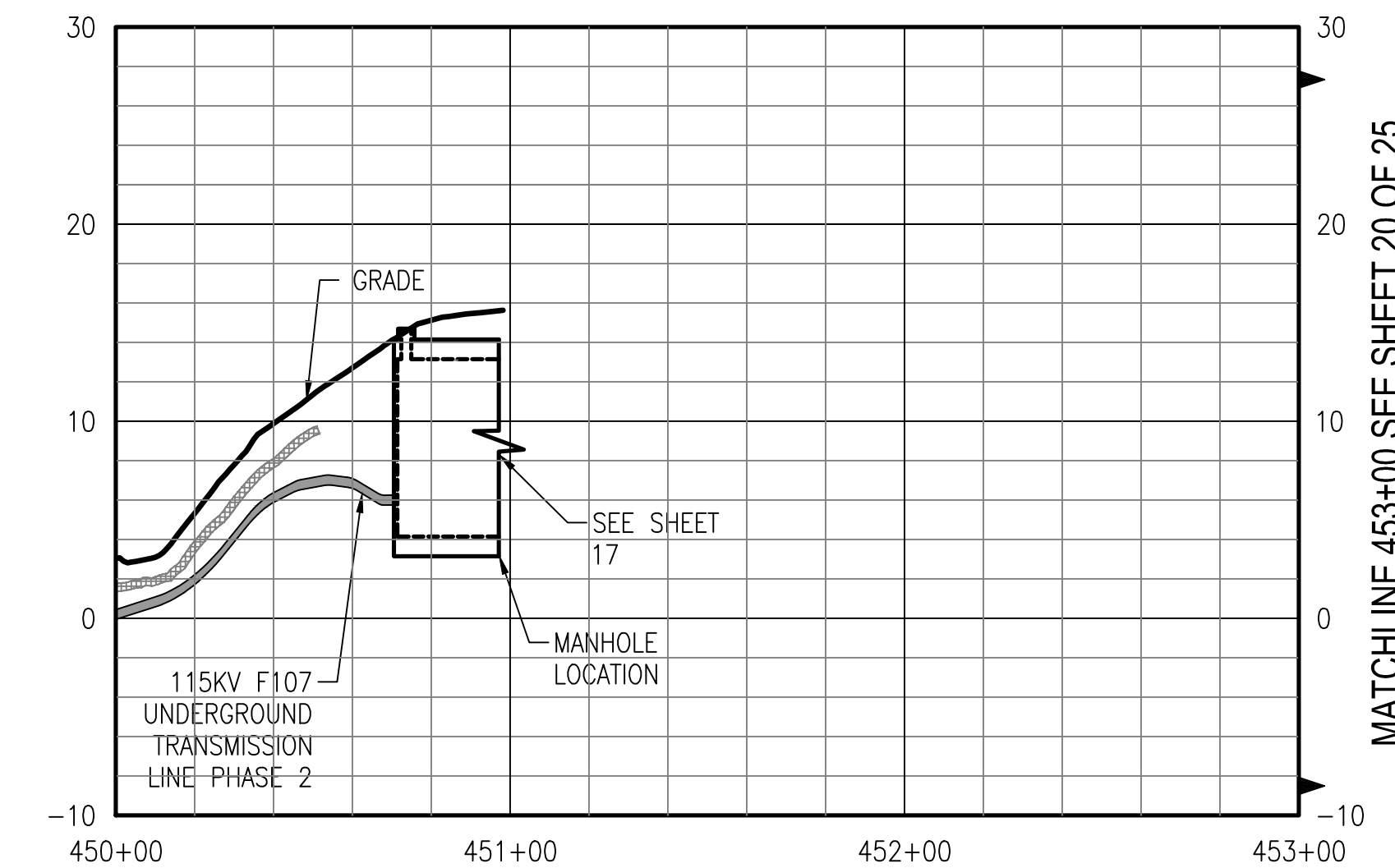
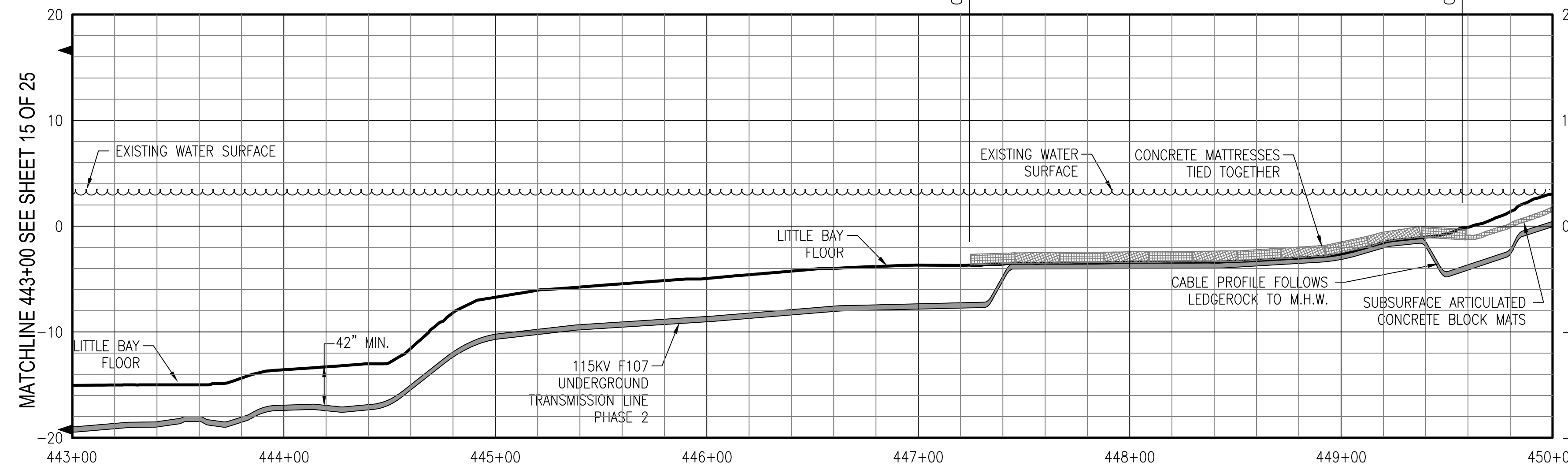
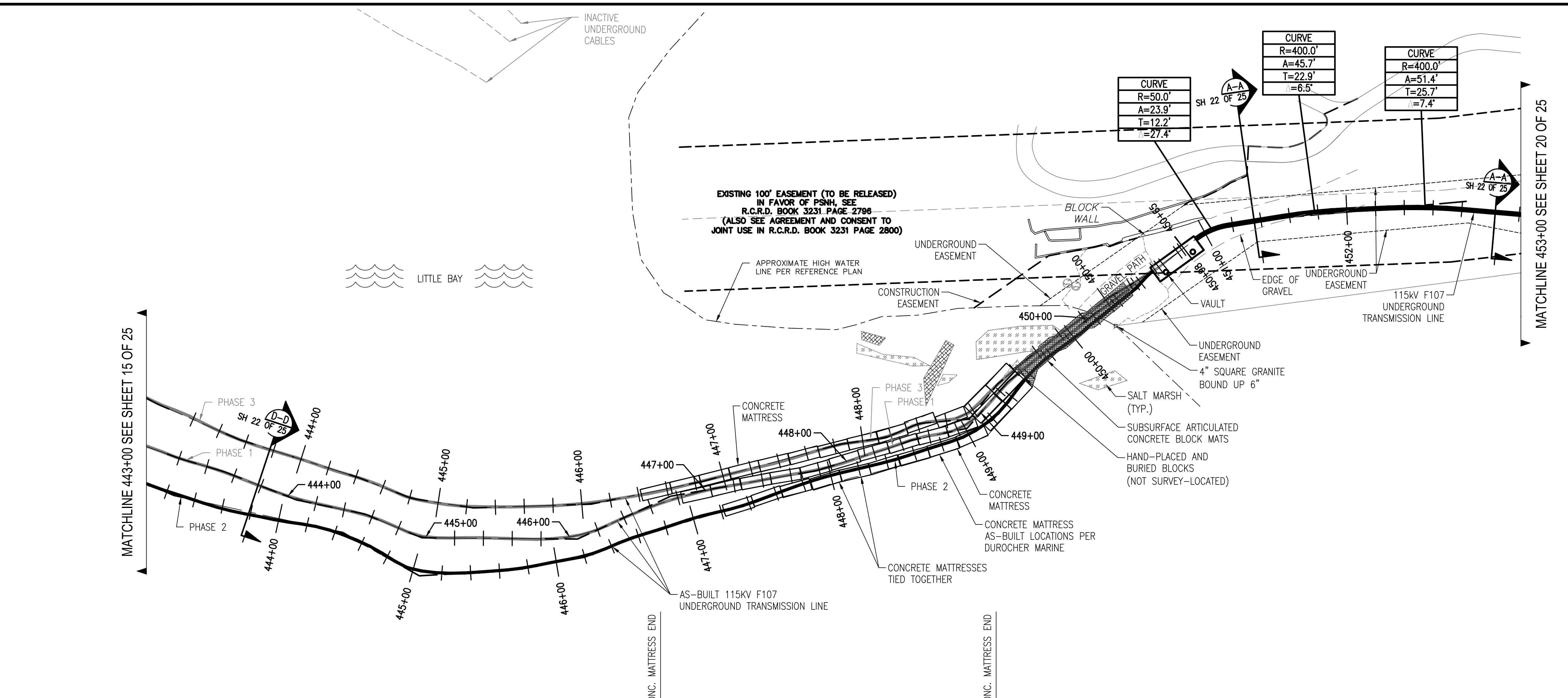
| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|-----------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05/11/19 | RSB | RSB | RSB |
| 2 | REV. FOR UTILITY FIELD WORK | 05/23/19 | RSB | RSB | RSB |
| 3 | REV. FOR UTILITY FIELD WORK | 05/23/19 | RSB | RSB | RSB |
| 4 | ISSUE FOR RECORD | 05/23/19 | PCW | RSB | RSB |

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 5/7/2019
 SCALE: H: 1"=40', V: 1"=8'

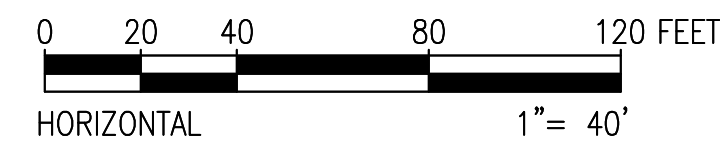
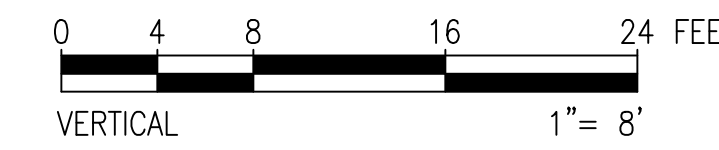
T 4

DES. REQ. CHKD: TSG
 DRW. REQ. APR: TSG
 TOWN: NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 17 OF 25
 F10743003



MATCHLINE 443+00 SEE SHEET 15 OF 25

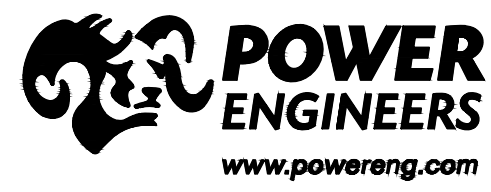
MATCHLINE 453+00 SEE SHEET 20 OF 25



PRINT DRAWING TO SCALE ON 22"x34" SHEET

811
 Know what's below.
 Call before you dig.

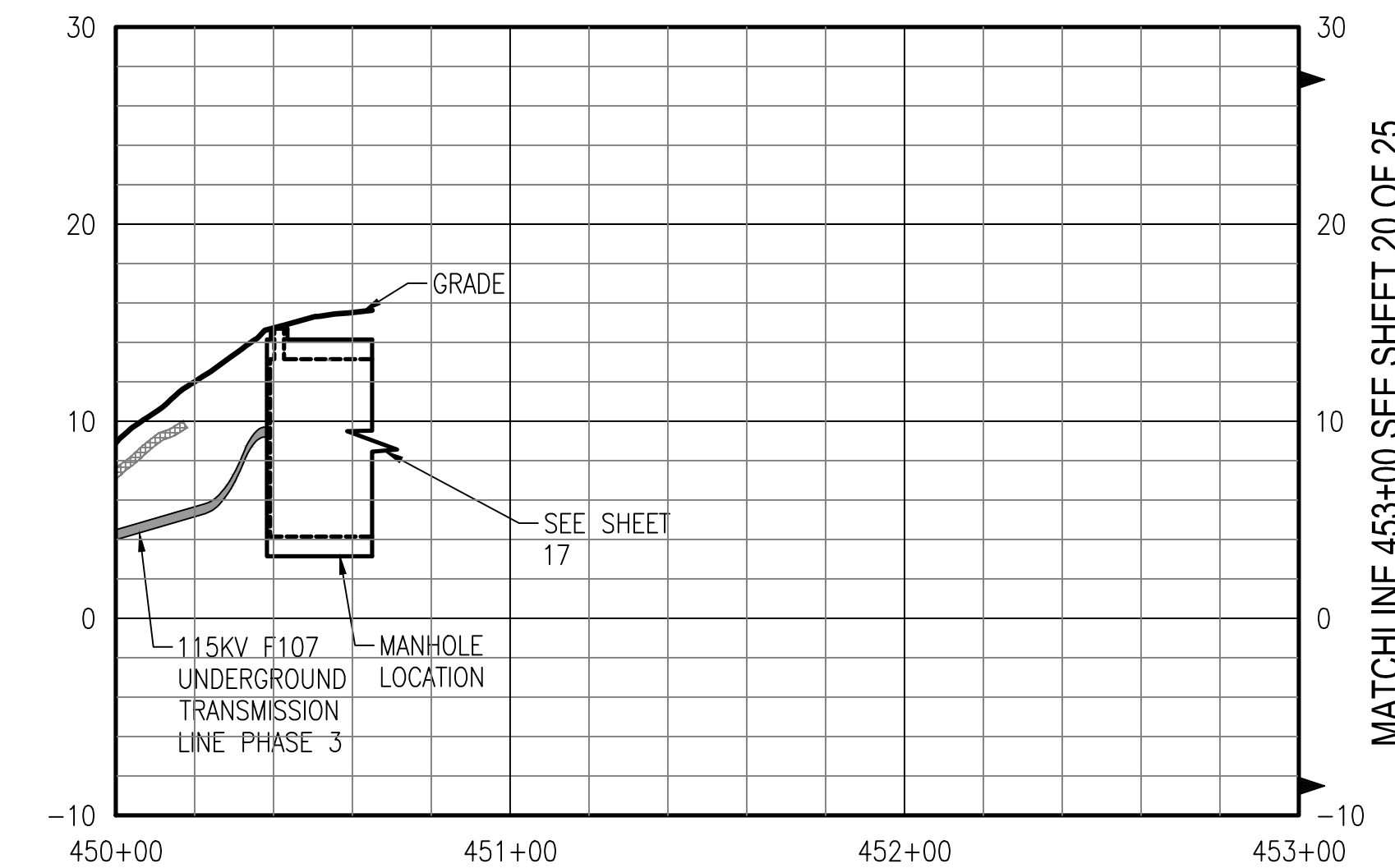
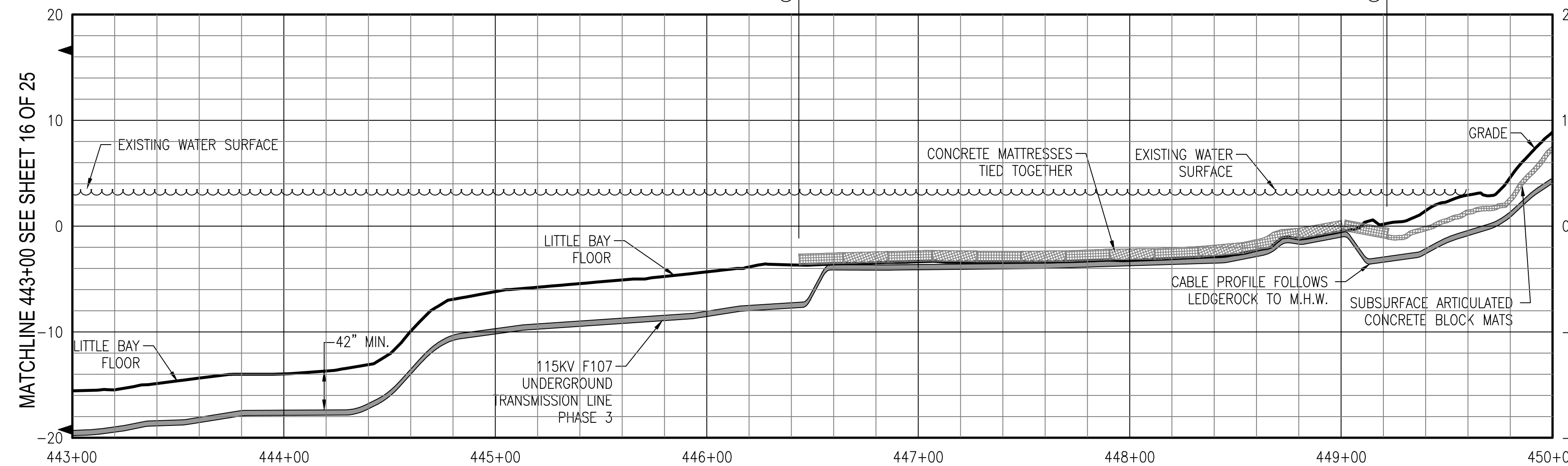
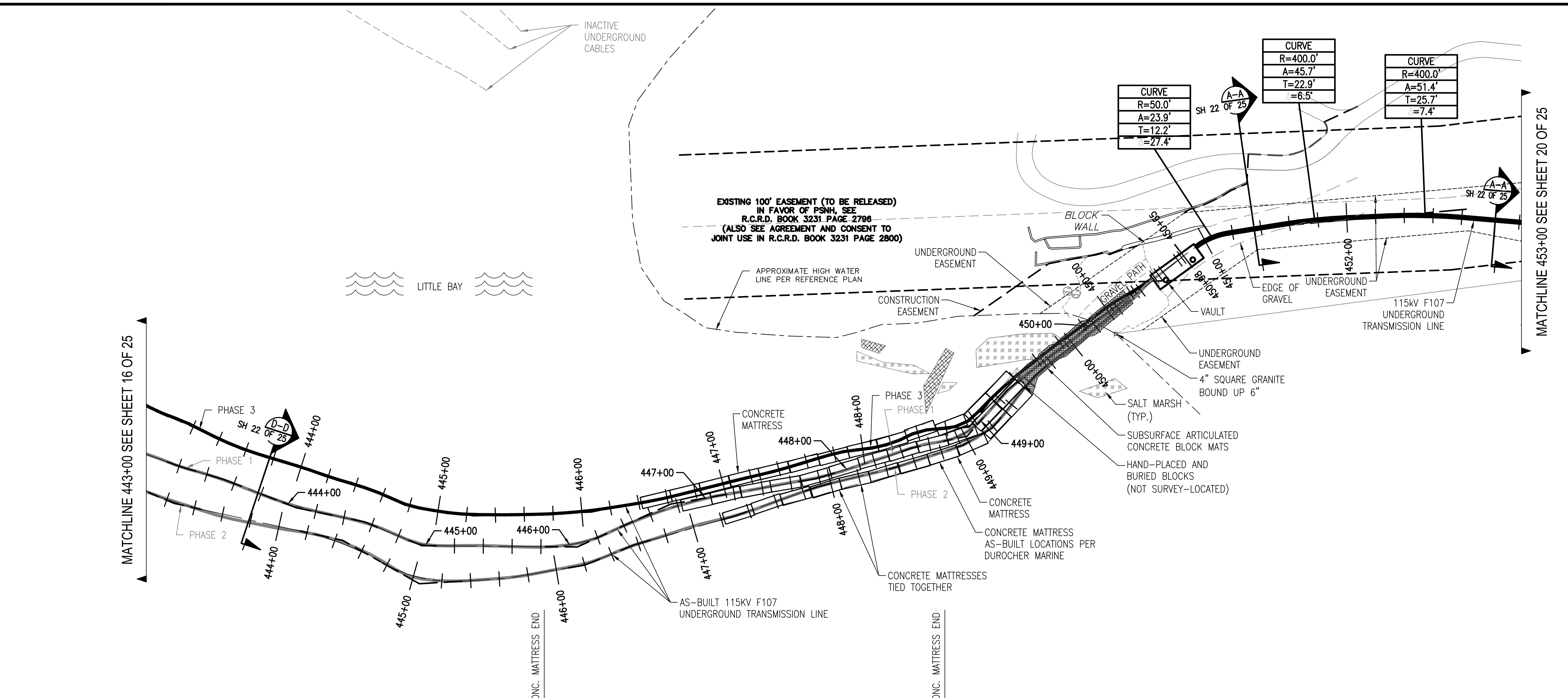
THREE BUSINESS DAYS BEFORE YOU DIG CALL
NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
 1-888-344-7233



| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05/11/19 | TSG | TSG | TSG |
| 2 | REV. FOR FIELD CHANGES | 05/22/19 | TSG | TSG | TSG |
| 3 | REV. FOR FIELD CHANGES | 05/22/19 | TSG | TSG | TSG |
| 4 | ISSUE FOR RECORD | 06/11/20 | PCW | PCW | TSG |

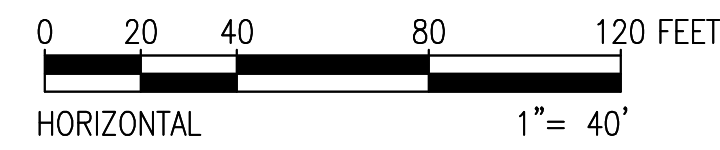
EVERSOURCE
 ENERGY

CIRCUIT F107 115KV
 UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 SHEET 18 OF 25
 F10743003



MATCHLINE 443+00 SEE SHEET 16 OF 25

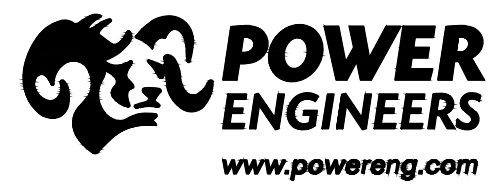
MATCHLINE 453+00 SEE SHEET 20 OF 25



PRINT DRAWING TO SCALE ON 22"x34" SHEET

811
 Know what's below.
 Call before you dig.

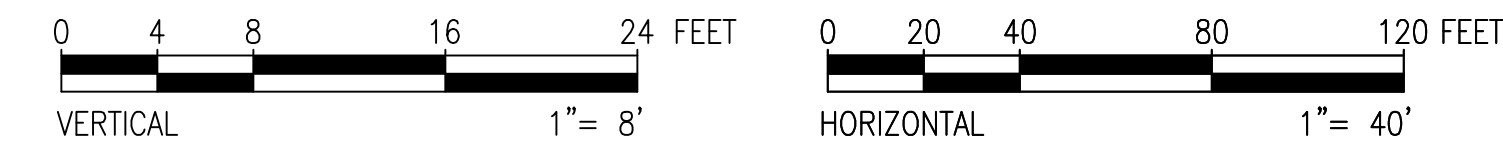
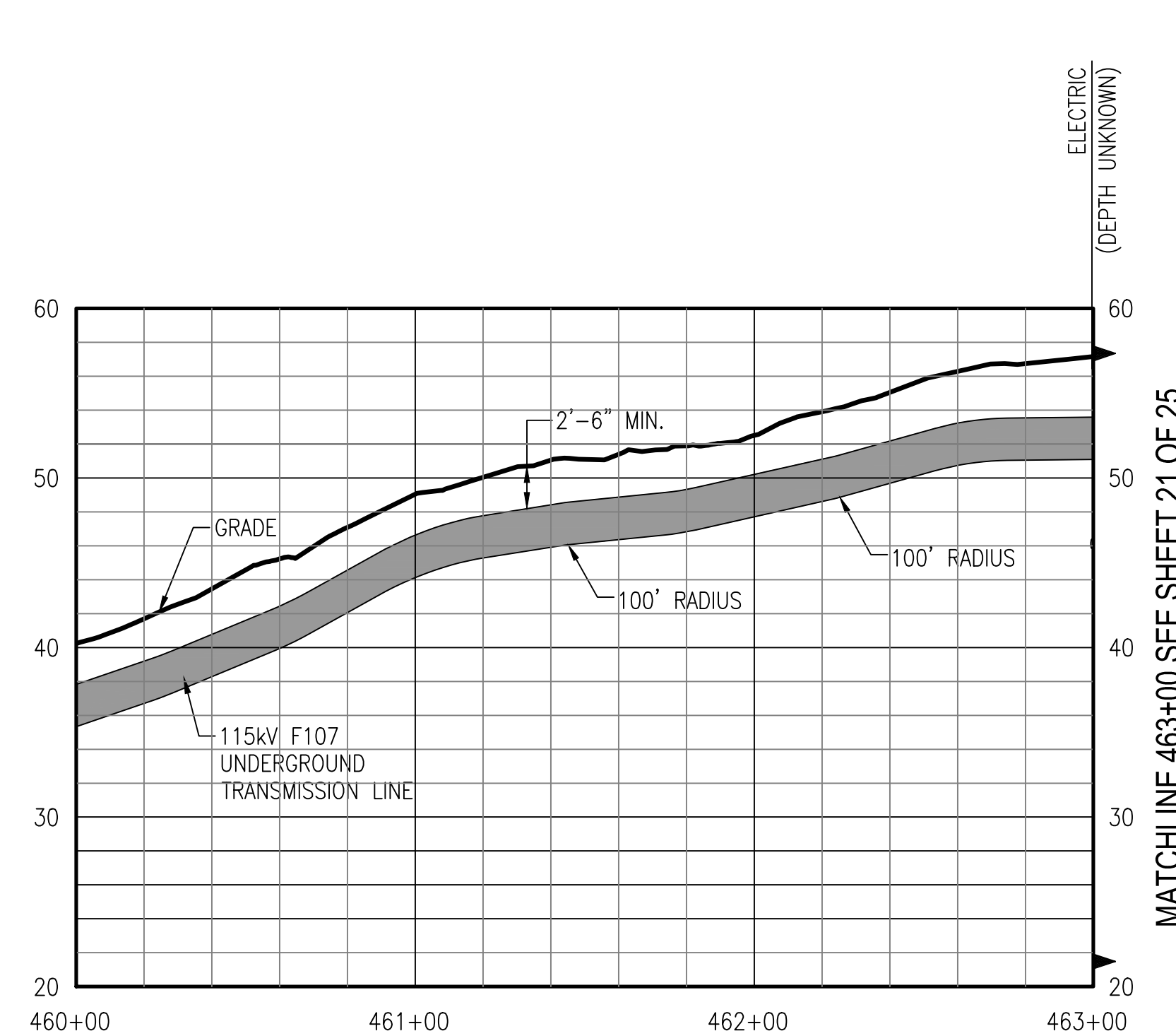
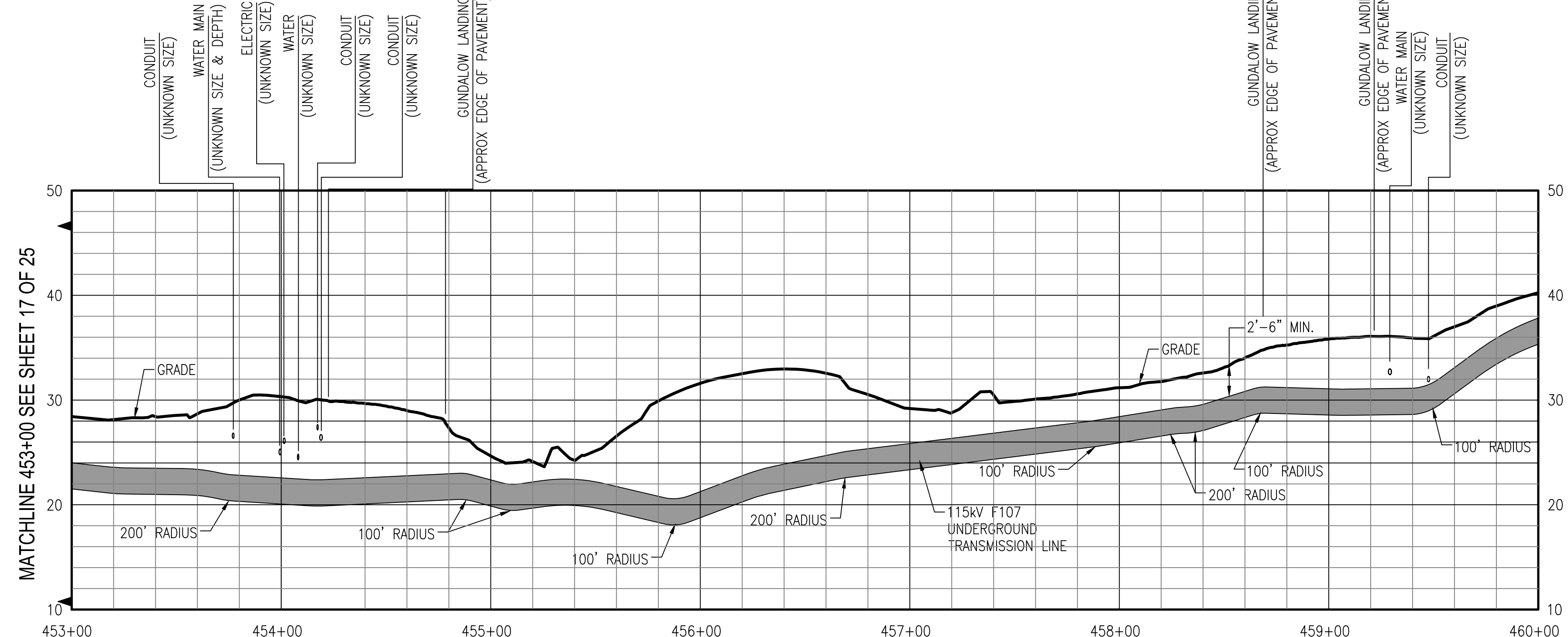
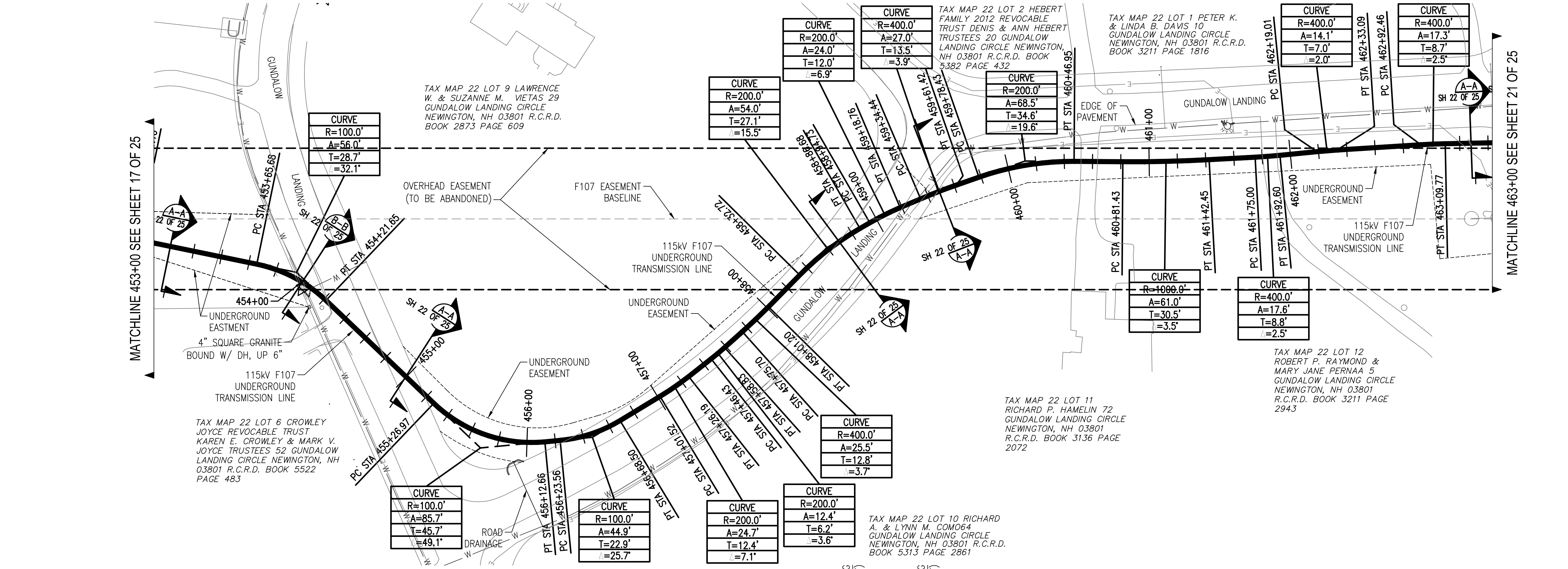
THREE BUSINESS DAYS BEFORE YOU DIG CALL
 NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
 1-888-344-7233



| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|------------------------|----------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05/11/19 | RSB | RSB | RSB |
| 2 | REV. FOR FIELD CHANGE | 05/22/19 | RSB | RSB | RSB |
| 3 | REV. FOR FIELD CHANGE | 05/22/19 | RSB | RSB | RSB |
| 4 | ISSUE FOR RECORD | 05/22/19 | PCW | RSB | RSB |

EVERSOURCE
 ENERGY

CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 3/7/2019
 SCALE: H: 1"=40', V: 1"=8'
 SHEET 19 OF 25
 F10743003



PRINT DRAWING TO SCALE ON 22\"/>

811 Know what's below. Call before you dig.

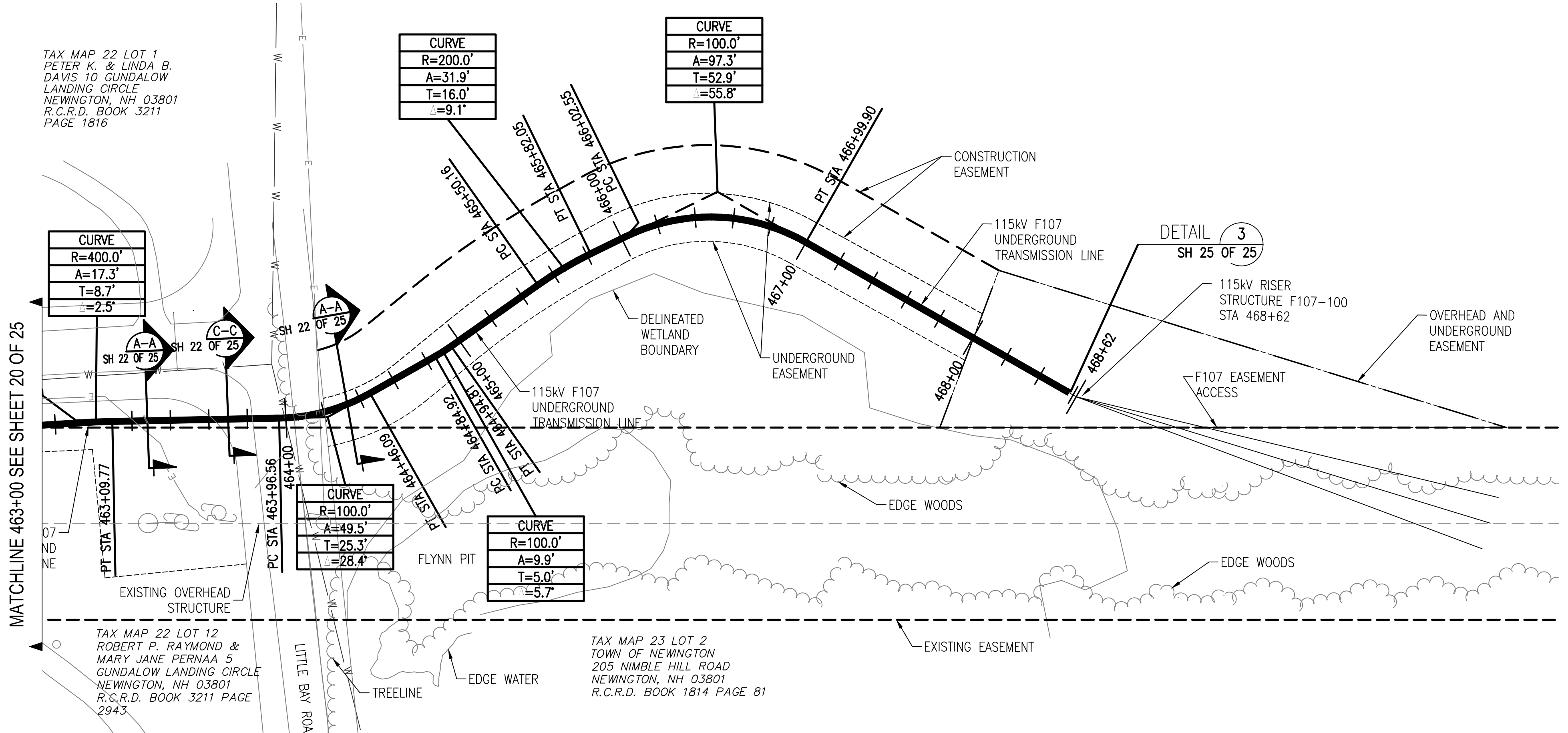
THREE BUSINESS DAYS BEFORE YOU DIG CALL
 NEW HAMPSHIRE DIG SAFE SYSTEM, INC.
 TOLL FREE
 1-888-344-7233



| NO. | REVISION | DATE | BY | CHKD | APPR. |
|-----|------------------------|----------|-----|------|-------|
| 1 | ISSUE FOR CONSTRUCTION | 05/11/19 | ... | ... | ... |
| 2 | REVISED | 05/22/19 | ... | ... | ... |
| 3 | REVISED | 05/22/19 | ... | ... | ... |
| 4 | ISSUE FOR RECORD | 05/22/19 | ... | ... | ... |

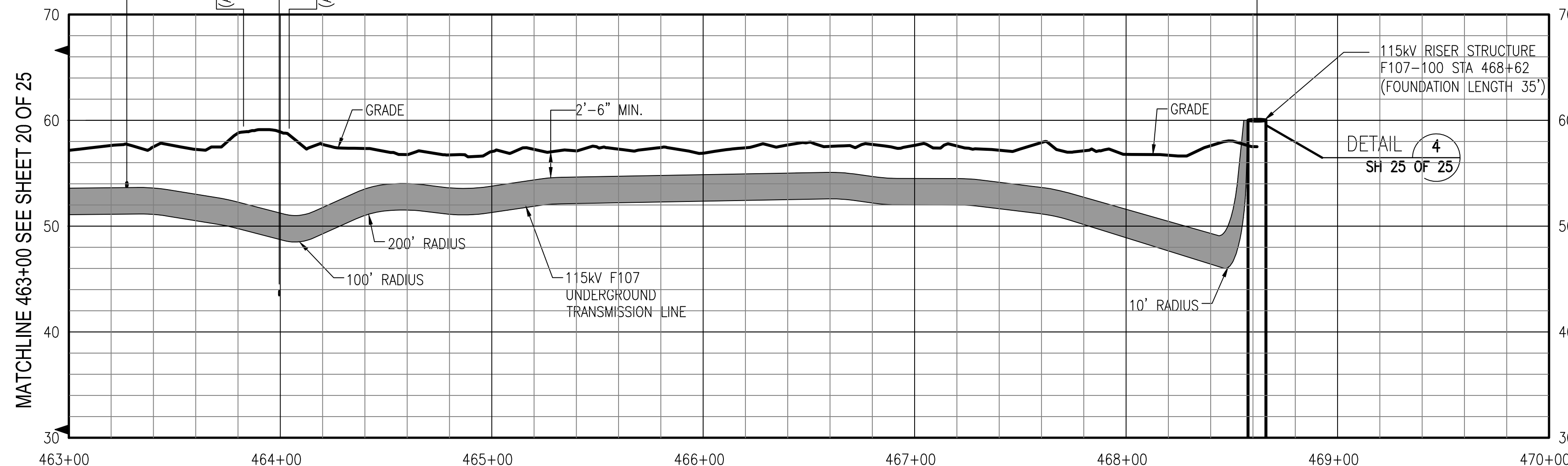
EVERSOURCE
ENERGY

CIRCUIT: F107 115kV UNDERGROUND TRANSMISSION LINE
 PLAN AND PROFILE VIEW
 DATE: 5/7/2019
 SCALE: H: 1"=40', V: 1"=8'



MATCHLINE 463+00 SEE SHEET 20 OF 25

MATCHLINE 463+00 SEE SHEET 20 OF 25

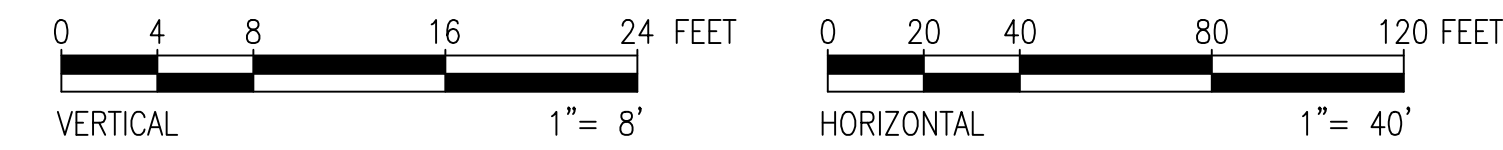


MATCHLINE 463+00 SEE SHEET 20 OF 25

MATCHLINE 463+00 SEE SHEET 20 OF 25

811
 Know what's below.
 Call before you dig.

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

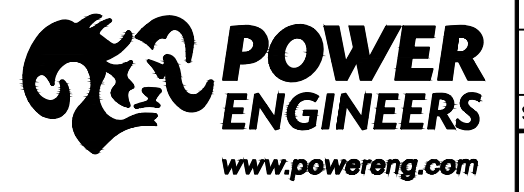


PRINT DRAWING TO SCALE ON 22"x34" SHEET

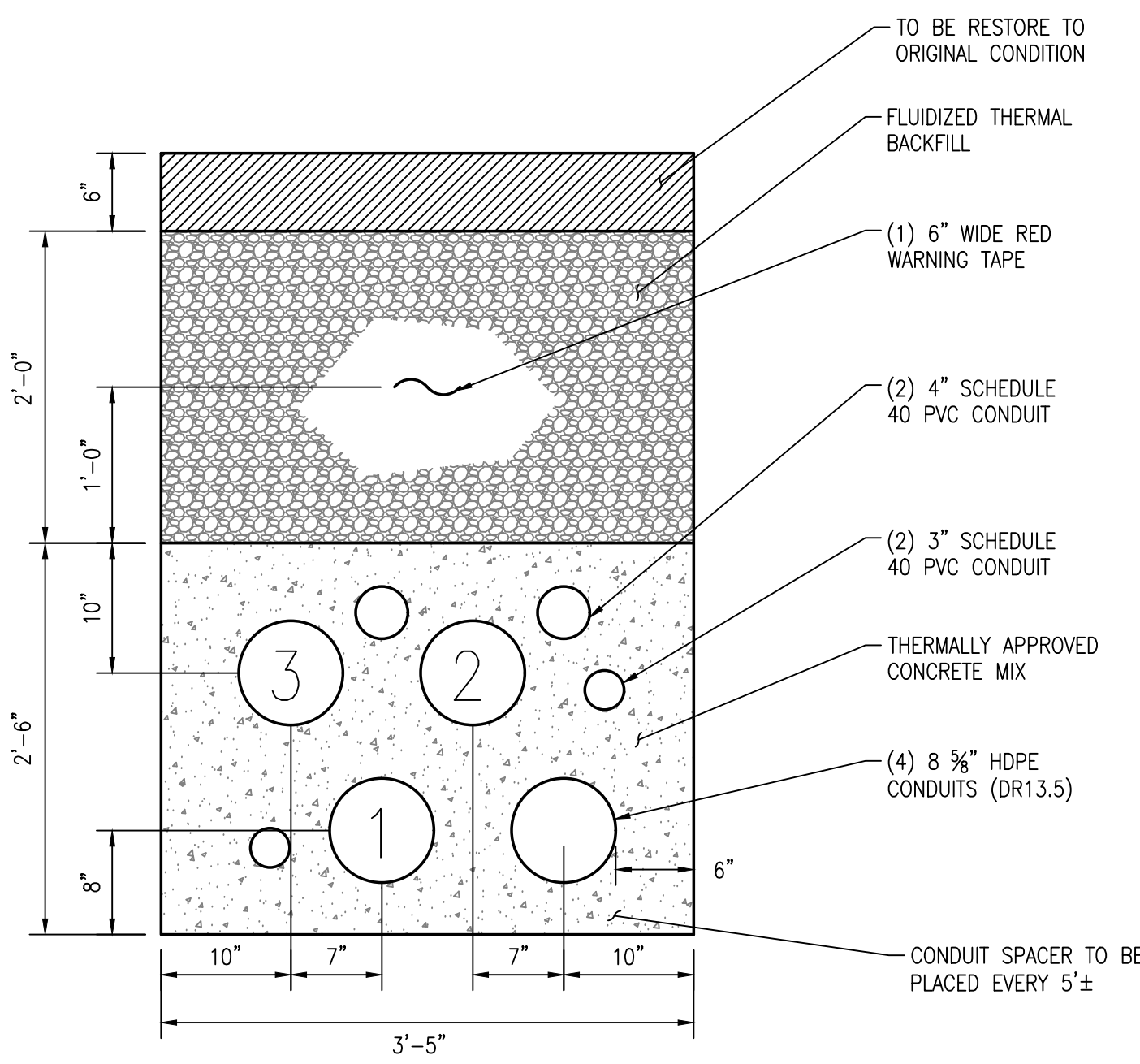
| NO. | REVISION | DATE | BY | CHKD | APPRV. |
|-----|---------------------------|------------|-----|------|--------|
| 1 | ISSUE FOR CONSTRUCTION | 05/11/2019 | TSB | TSB | TSB |
| 2 | REVISED SHARING AGREEMENT | 05/23/19 | TSB | TSB | TSB |
| 3 | REVISED SHARING AGREEMENT | 05/23/19 | TSB | TSB | TSB |
| 4 | ISSUE FOR RECORD | 05/23/19 | PCW | TSB | TSB |

EVERSOURCE
 ENERGY

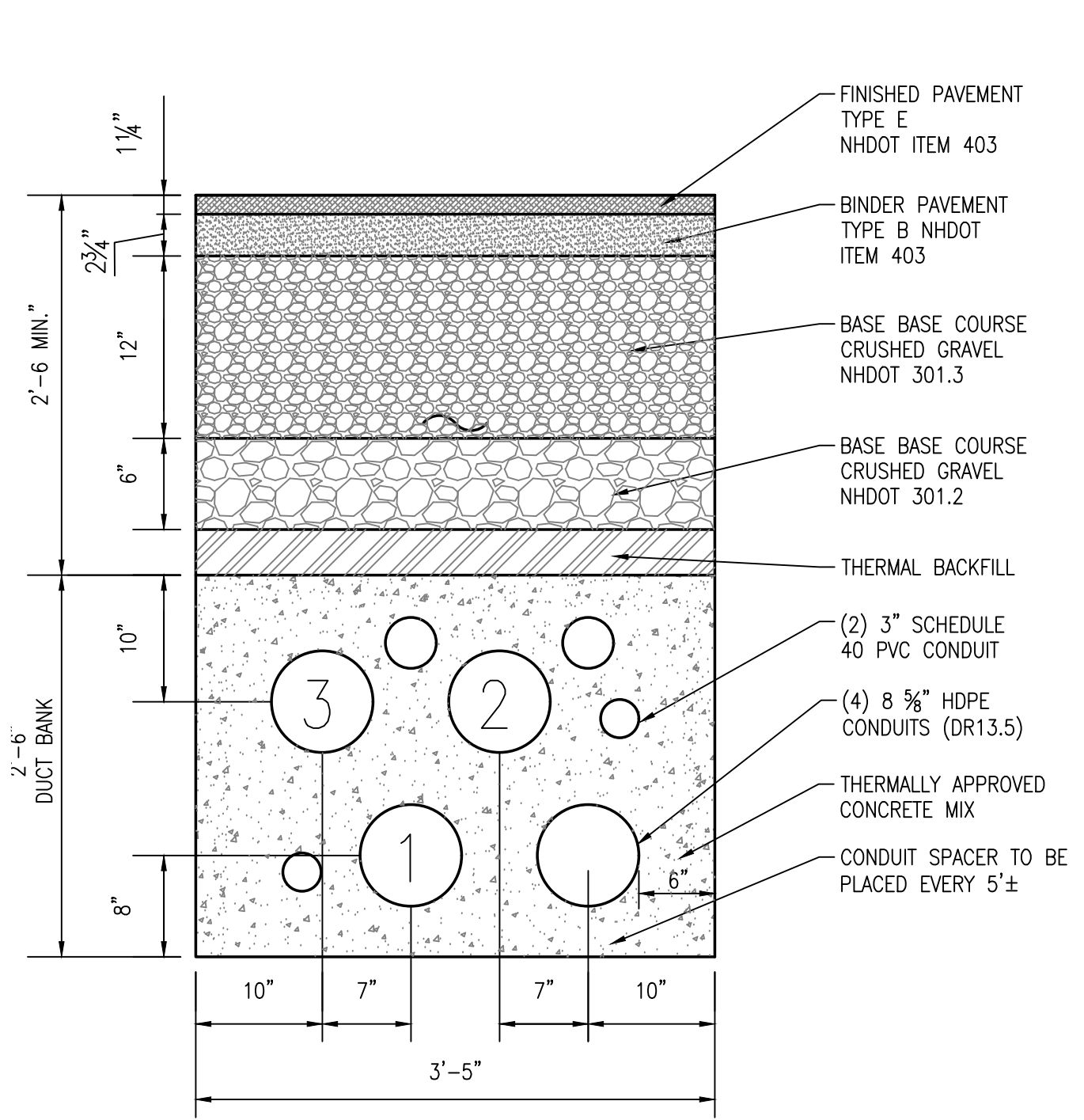
| | |
|--|-----------|
| T | 4 |
| CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE VIEW | |
| DATE: 3/7/2019 | |
| SCALE: H: 1"=40', V: 1"=8' | |
| DES.: | TSB |
| CHK.: | TSB |
| DRW.: | TSB |
| APP.: | TSB |
| TOWN: | NEWINGTON |
| TRANSMISSION LINE: | LINE |
| MILE NO.: | 8 & 9 |
| DISCIPLINE/SHT NO.: | LINE |
| SHEET: | 21 OF 25 |
| PROJECT: | F10743003 |



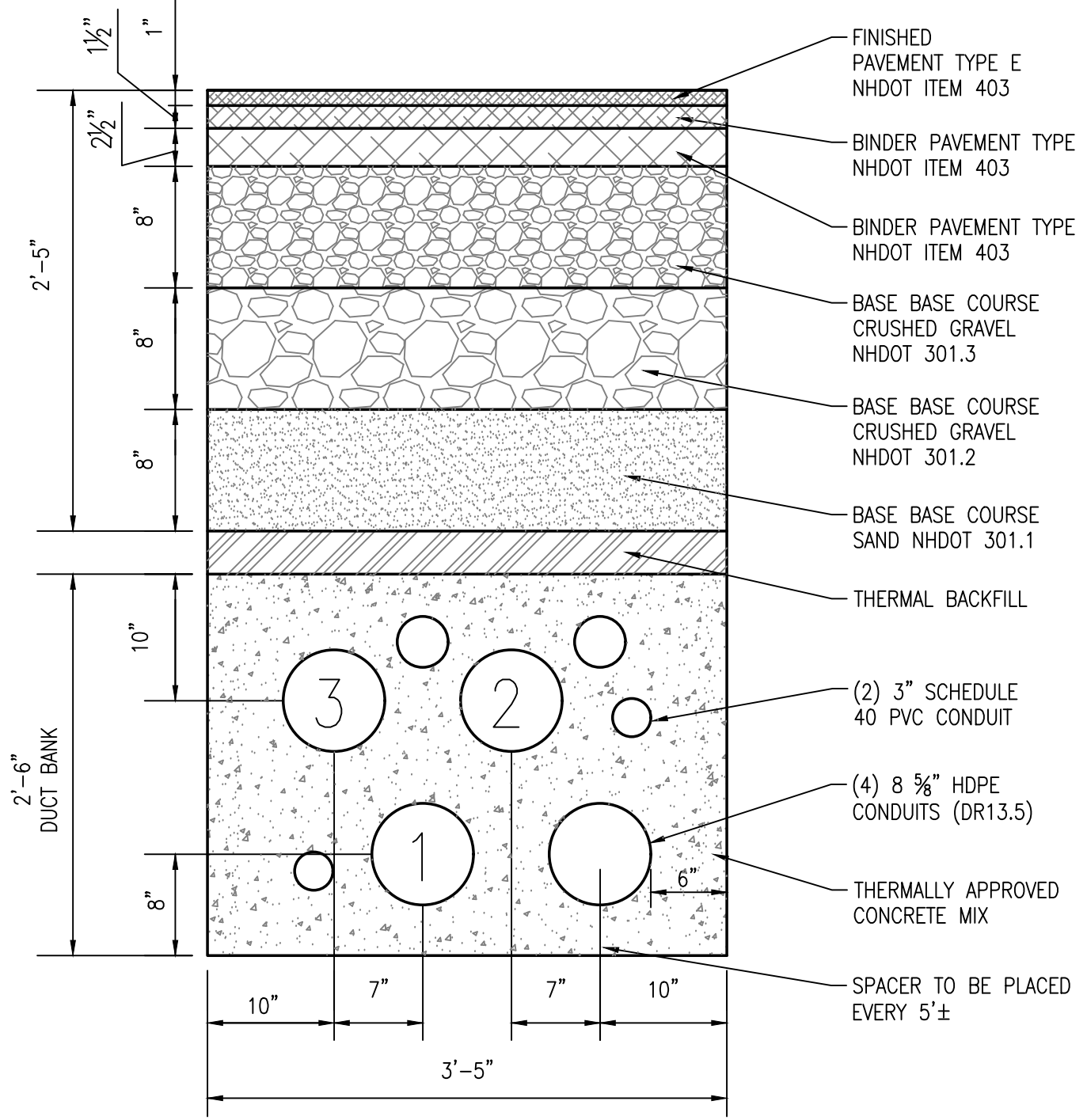
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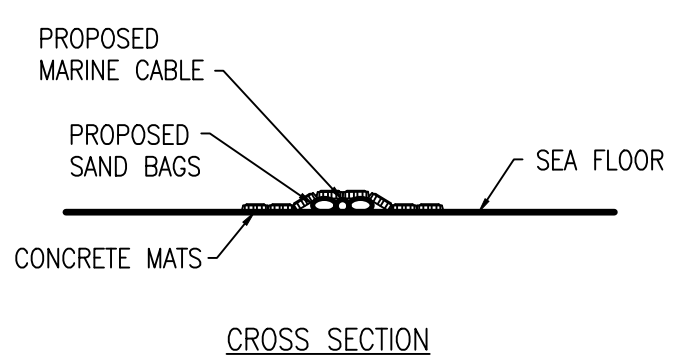
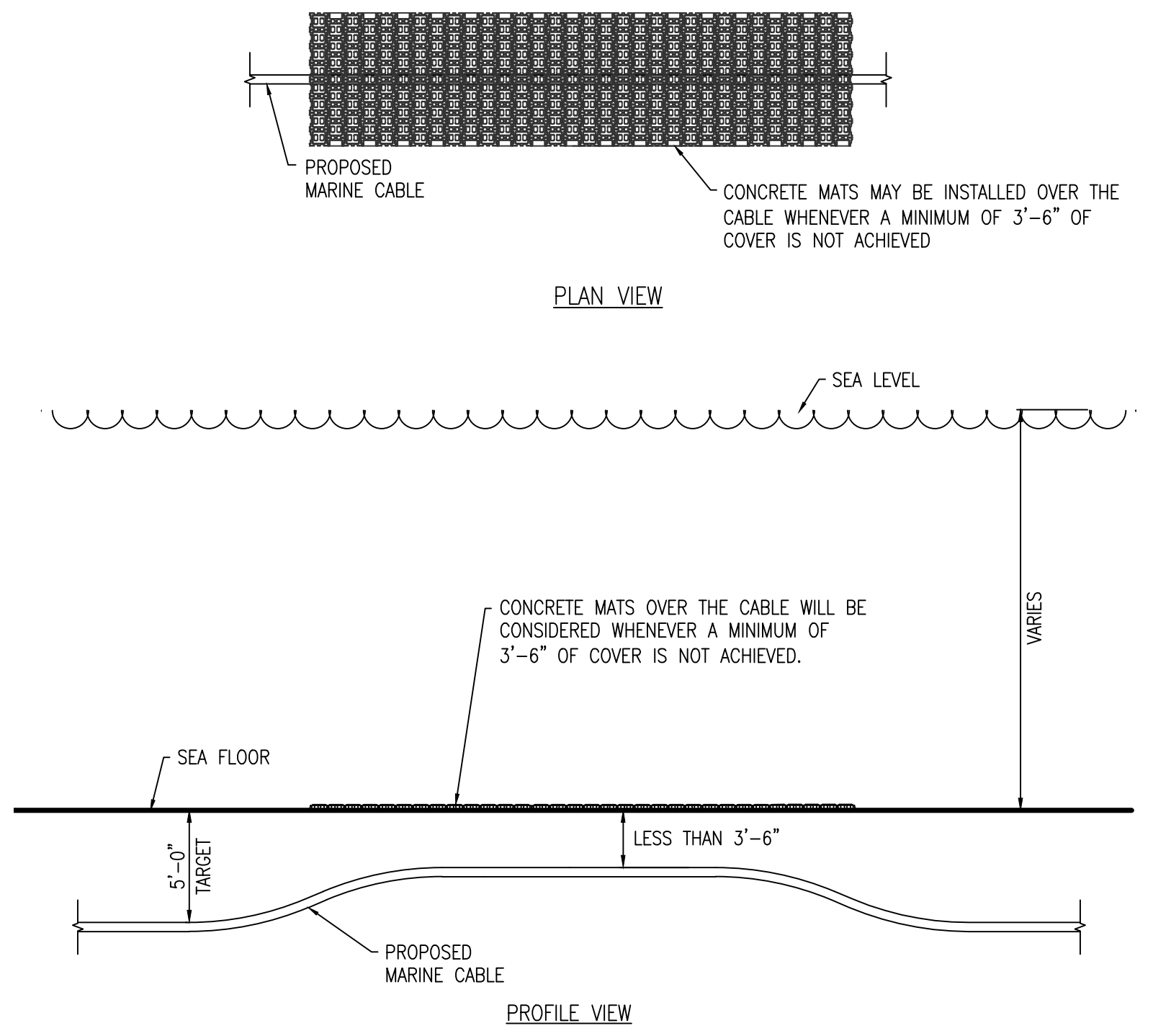
TYP TRENCH DETAIL SECTION A-A SCALE N.T.S. SH 22 OF 25



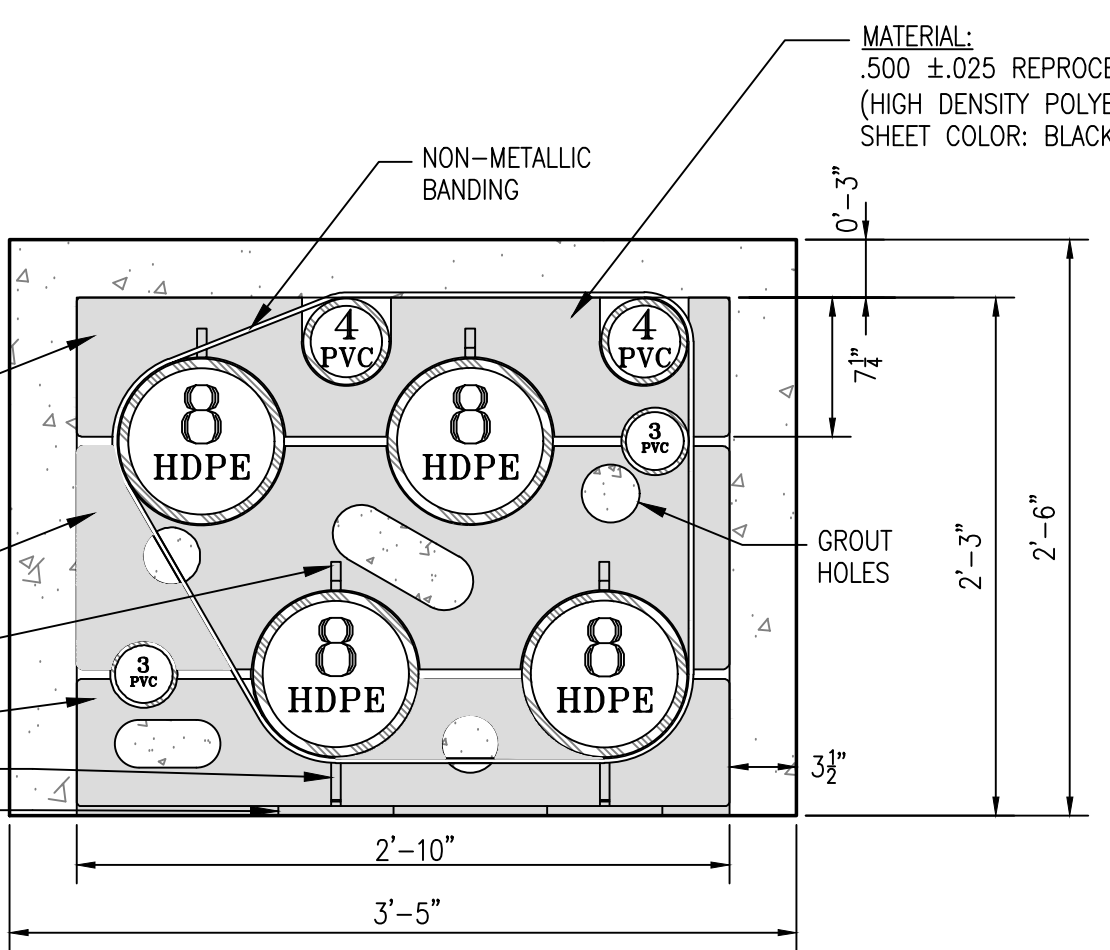
RESIDENTIAL ROAD CROSSING SECTION B-B SCALE N.T.S. SH 22 OF 25



NON RESIDENTIAL ROAD CROSSING SECTION C-C SCALE N.T.S. SH 22 OF 25

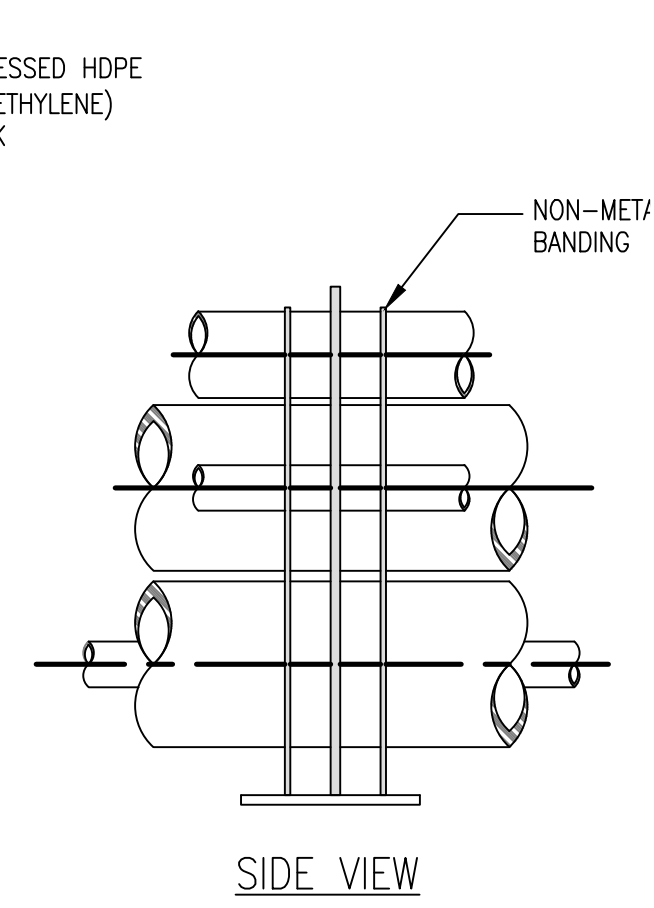


CONCRETE MATTING FOR SHALLOW PENETRATION DETAIL SCALE N.T.S. SH 22 OF 25

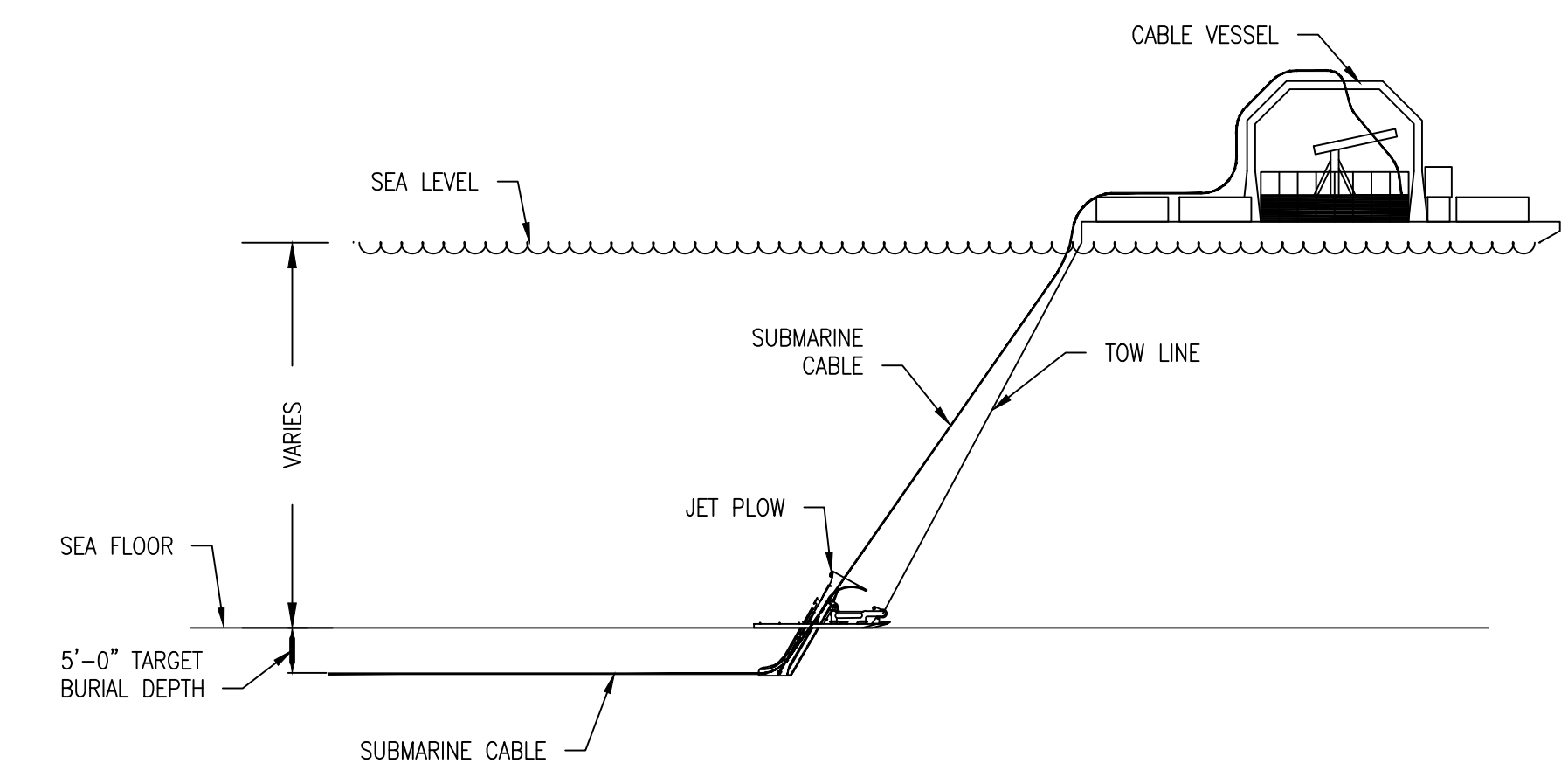


ADVANCED PRODUCTS AND SPACERS, LLC SPACER ARRANGEMENT DETAIL SCALE N.T.S. SH 22 OF 25

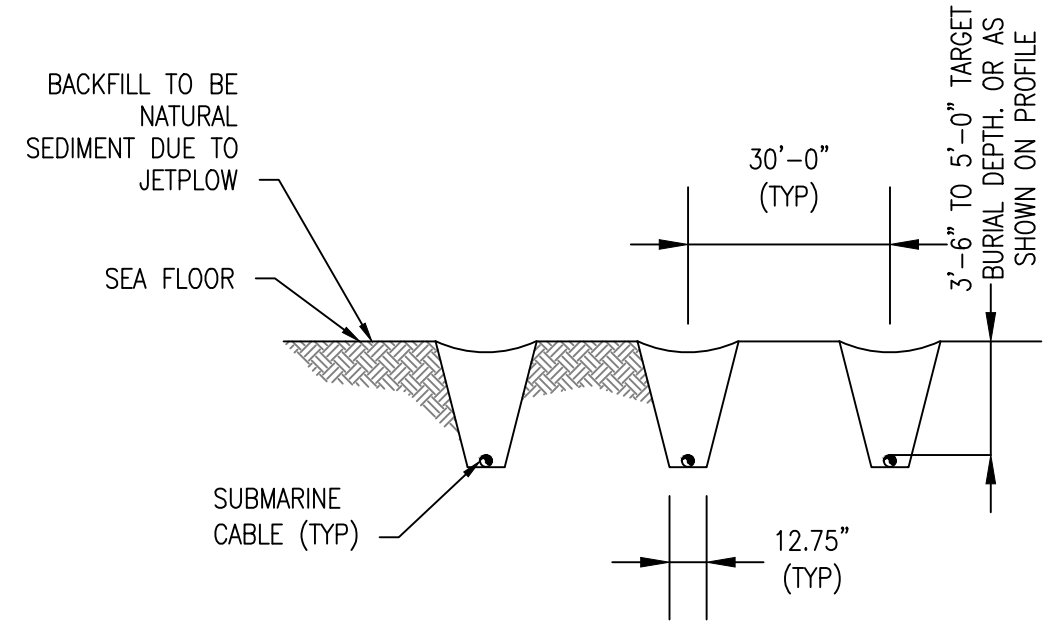
- NOTES:
1. STAGGER BELL ENDS.
 2. AVOID STANDING ON CONDUIT.
 3. ALL TRENCH DETAILS AND PHASING SHOWN AS LOOKING AHEAD STATIONS.
 4. ALL DUCT SPACERS ARE ADVANCE PRODUCTS & SYSTEMS, LLC.
 5. SEPARATION SHOWN IS TYPICAL SPACING IN TRENCH EXCAVATION AREAS. SEE PLAN DETAILS FOR SEPARATION AT OTHER LOCATIONS.



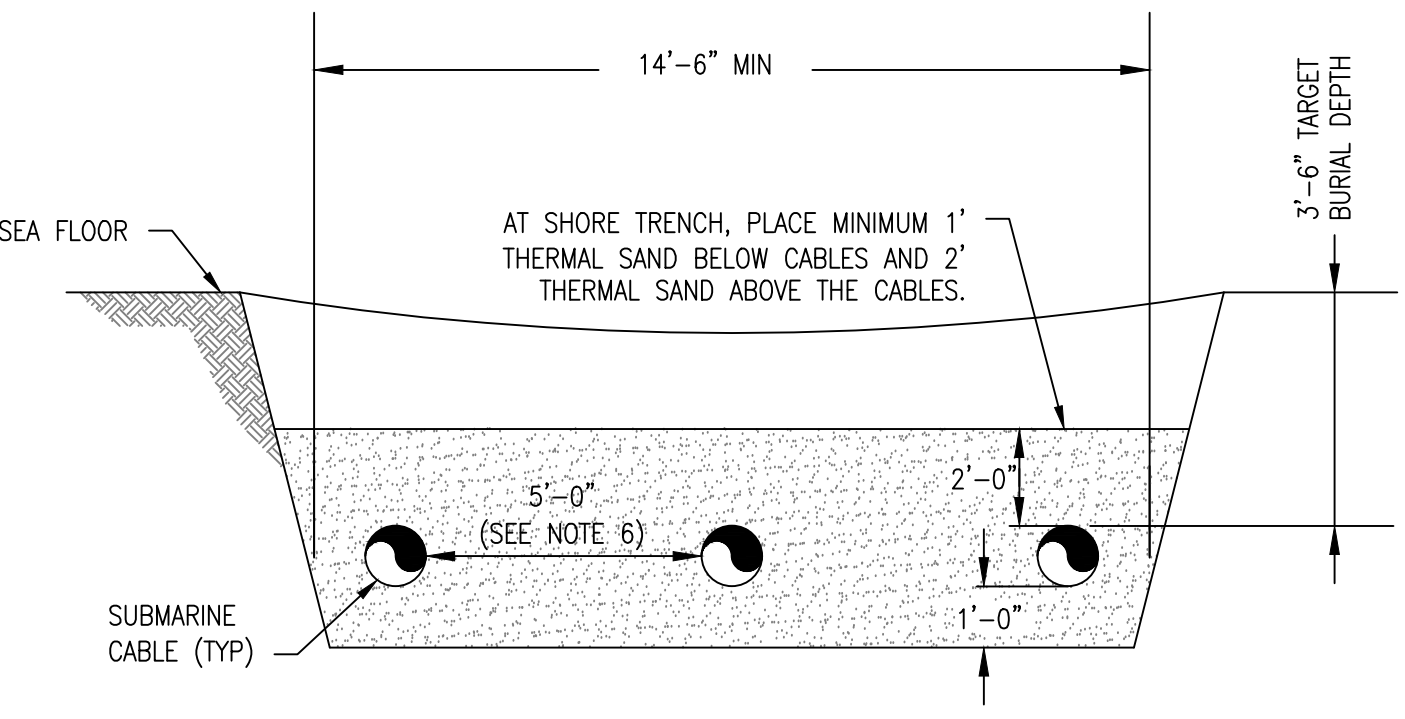
SIDE VIEW



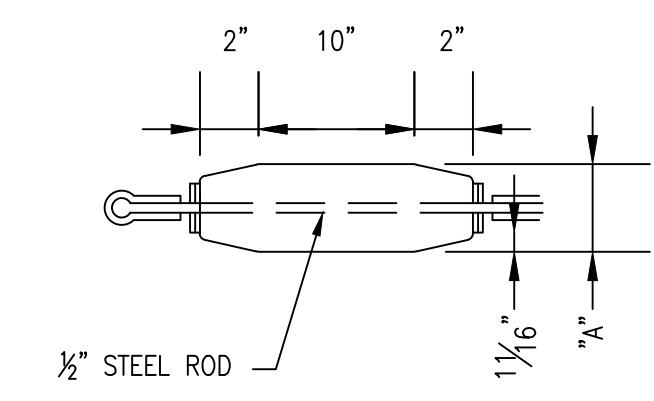
TYP SUBMARINE ELEVATION DETAIL SCALE N.T.S. SH 22 OF 25



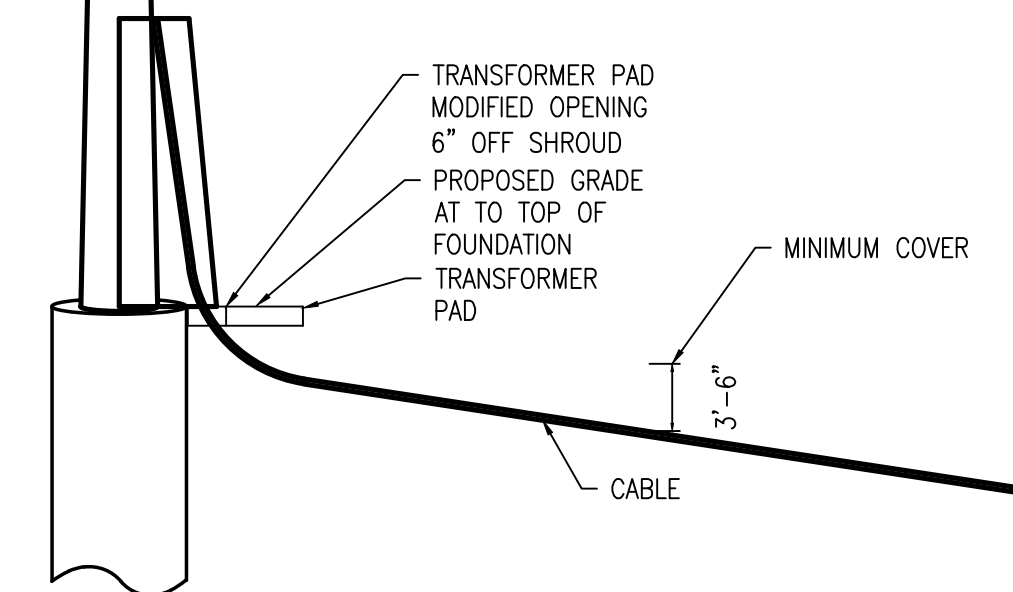
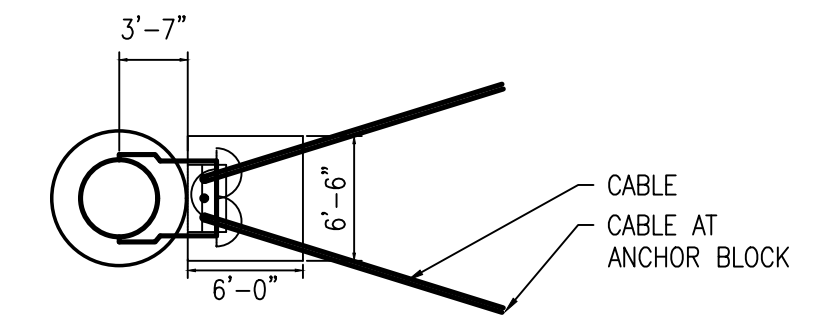
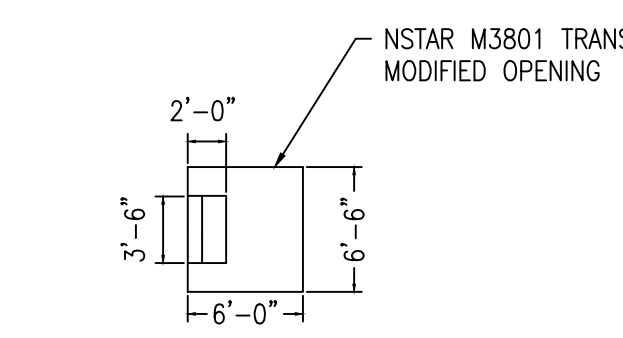
TYP SUBMARINE JET PLOW SECTION SCALE N.T.S. SH 22 OF 25



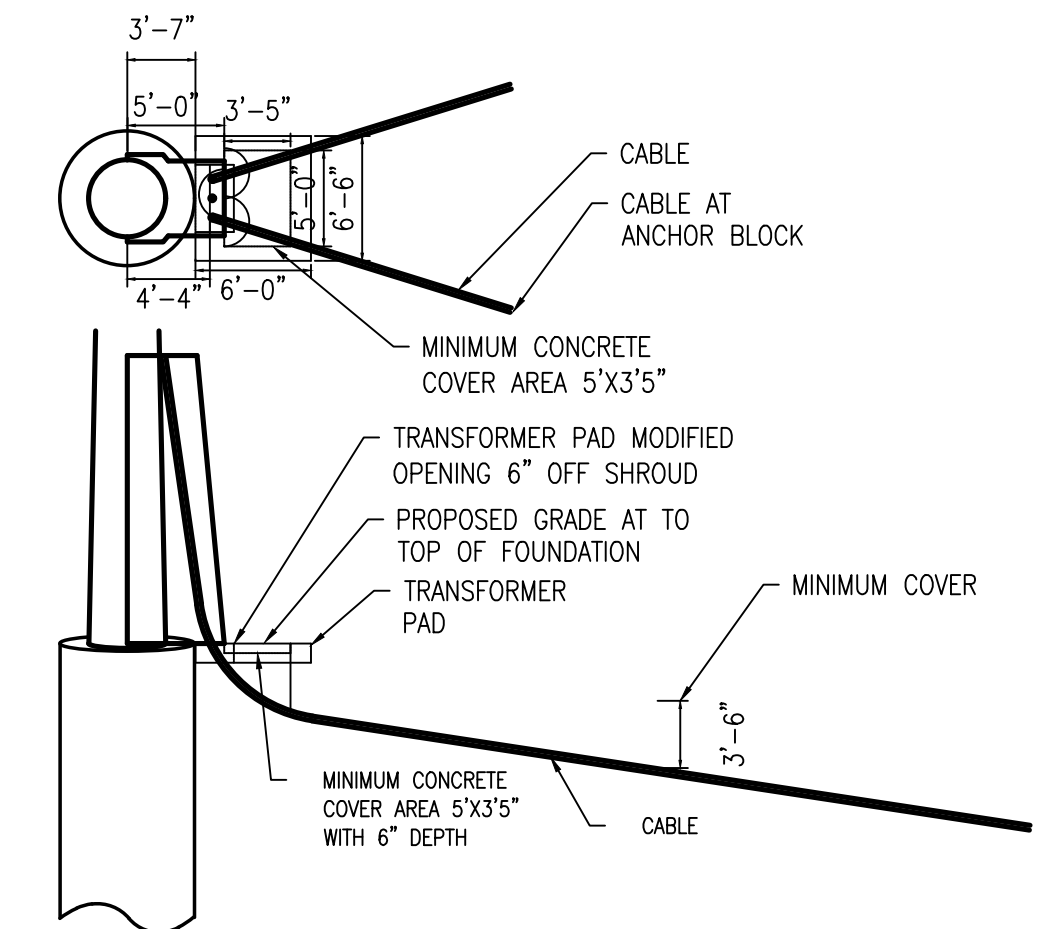
TYP SUBMARINE TRENCH SECTION SCALE N.T.S. SH 22 OF 25



TYP MANDREL DETAIL SCALE N.T.S. SH 22 OF 25



F107-99 RISER STRUCTURE DETAIL SCALE N.T.S. SH 22 OF 25

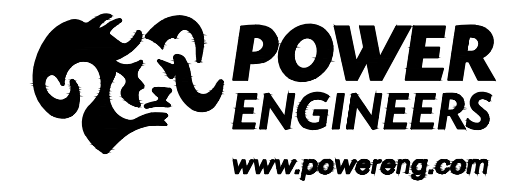


F107-99 RISER STRUCTURE DETAIL SCALE N.T.S. SH 22 OF 25

| NO. | REVISION | DATE | BY | CHKD | APPR. |
|-----|------------------------|------------|-----|------|-------|
| 1 | ISSUE FOR CONSTRUCTION | 11/27/2019 | EPW | MSG | |
| 2 | ISSUE FOR CONSTRUCTION | 11/27/2019 | EPW | MSG | |
| 3 | ISSUE FOR CONSTRUCTION | 11/27/2019 | EPW | MSG | |
| 4 | ISSUE FOR RECORD | 11/27/2019 | EPW | MSG | |

EVERSOURCE ENERGY

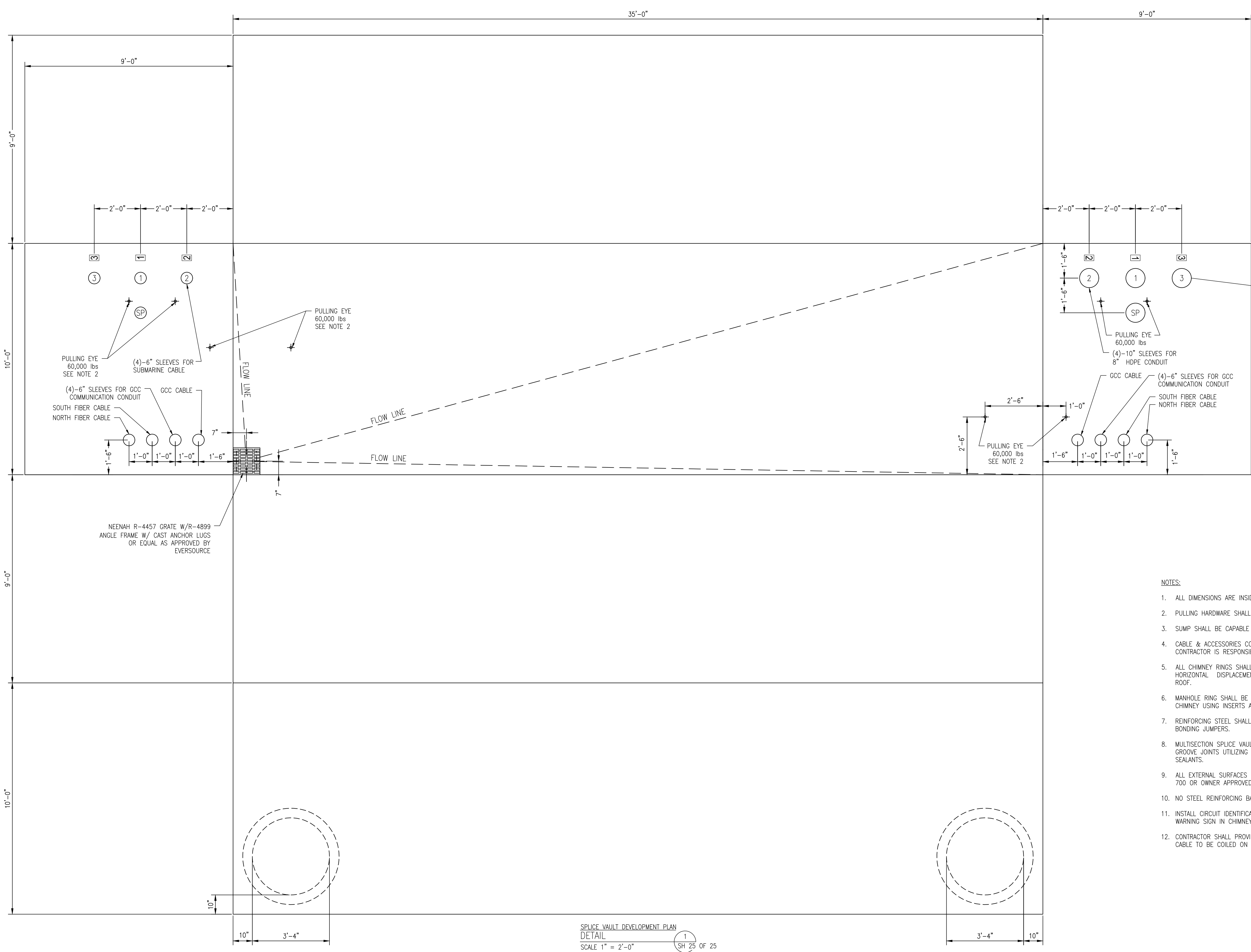
CIRCUIT F107 115KV UNDERGROUND TRANSMISSION LINE TRENCH AND JET PLOW DETAILS
 DATE: 3/1/2019
 TOWN: DURHAM & NEWINGTON
 TRANSMISSION LINE: LINE
 MILE NO: 8 & 9
 DISCIPLINE/SHT NO.
 SHEET 22 OF 25
 F10743003



PRINT DRAWING TO SCALE ON 22"x34" SHEET

6/3/2020 11:32 AM - E:\Projects\133007\DD\DWG\09 Final CADD Files\To EVERSOURCE\As-Built\Little Boy (F10743003)\REV 4\F10743003.dwg - 23

ES VER. 11/2015



NEENAH R-4457 GRATE W/R-4899
ANGLE FRAME W/ CAST ANCHOR LUGS
OR EQUAL AS APPROVED BY
EVERSOURCE

SPLICE VAULT DEVELOPMENT PLAN
DETAIL
SCALE 1" = 2'-0" (1) SH 25 OF 25

- 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. CABLE & ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL SPLICE VAULT DEPTHS. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY & ENTRY/EXIT REQUIREMENTS.
 5. ALL CHIMNEY RINGS SHALL BE MORTARED OR OTHERWISE "KEYED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO SPLICE VAULT ROOF.
 6. MANHOLE RING SHALL BE SECURELY FASTENED TO THE SPLICE VAULT ROOF OR CHIMNEY USING INSERTS AND BOLTS OR OTHER MEANS WITH PRIOR APPROVAL.
 7. REINFORCING STEEL SHALL BE BONDED TO 500kcmil SOFT DRAWN BARE COPPER BONDING JUMPERS.
 8. MULTISECTION SPLICE VAULTS SHALL INCORPORATE EITHER SHIPLAP OR TONGUE AND GROOVE JOINTS UTILIZING APPROPRIATE SILICONE, POLYMERIC OR ELASTOMERIC SEALANTS.
 9. ALL EXTERNAL SURFACES OF VAULT SHALL BE SEALED USING SONNEDORN HYDROCID 700 OR OWNER APPROVED EQUIVALENT.
 10. NO STEEL REINFORCING BAR MAY ENCAPSULATE ANY INDIVIDUAL CONDUIT.
 11. INSTALL CIRCUIT IDENTIFICATION LABELS ON VAULT WALL AND INSTALL DANGER WARNING SIGN IN CHIMNEY.
 12. CONTRACTOR SHALL PROVIDE RACKING FOR 50' OF DYNAMIC TEMPERATURE SENSING CABLE TO BE COILED ON THE WALL OPPOSITE THE CABLE SPLICES.

| NO. | REVISION | DATE | BY | CHKD | APPR. |
|-----|------------------------|------------|----|------|-------|
| 1 | ISSUE FOR CONSTRUCTION | 04/17/2019 | MM | TZ | AA |
| 2 | REV. FOR CONSTRUCTION | 04/17/2019 | MM | TZ | AA |
| 3 | REV. FOR CONSTRUCTION | 04/17/2019 | MM | TZ | AA |
| 4 | ISSUE FOR RECORD | 04/17/2019 | MM | TZ | AA |

EVERSOURCE
ENERGY

T 4

CIRCUIT F107 115KV
UNDERGROUND TRANSMISSION LINE
SPLICE VAULT DETAIL SHEET
SCALE: N.T.S.

DES: REO CHK: TSG
DRW: REO APR: TSG

TOWN:
NEWINGTON

TRANSMISSION LINE:
LINE

DISCIPLINE/SHT NO.
MILE NO: 8 & 9

SHEET 23 OF 25
F10743003

DATE: 3/7/2019

