

# EVERSOURCE

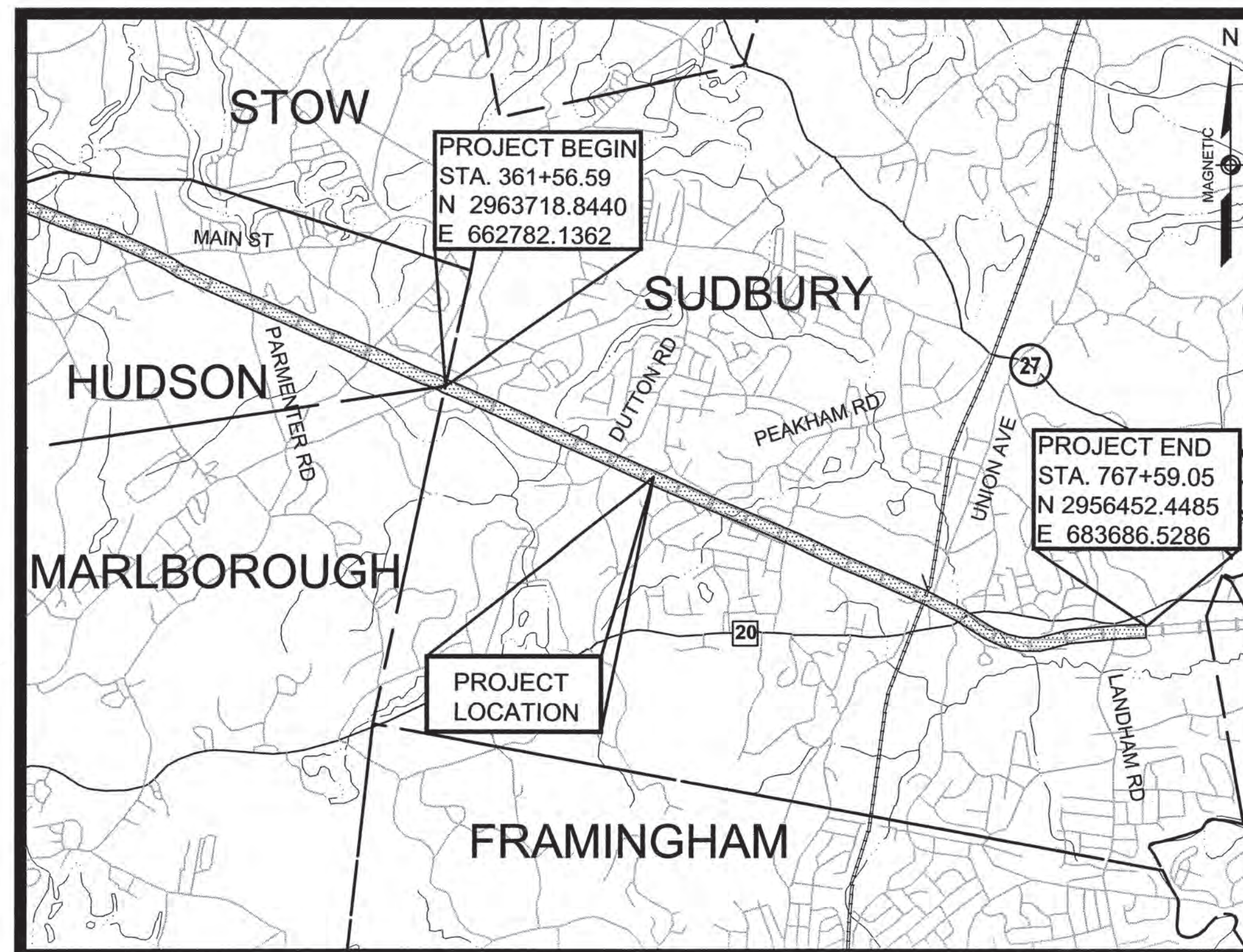
## SUDBURY-HUDSON

### TRANSMISSION RELIABILITY PROJECT

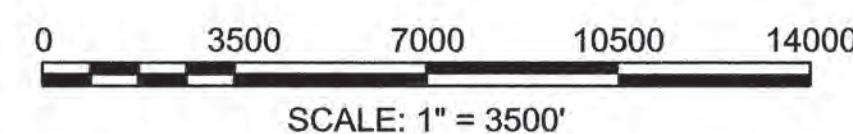
### SUDBURY STORMWATER PERMIT PLANS

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VANASSE HANGEN BRUSTLIN, INC.  
WATERTOWN, MASSACHUSETTS



#### REFERENCE MANUALS

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.



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SHEETS 134, 156-168

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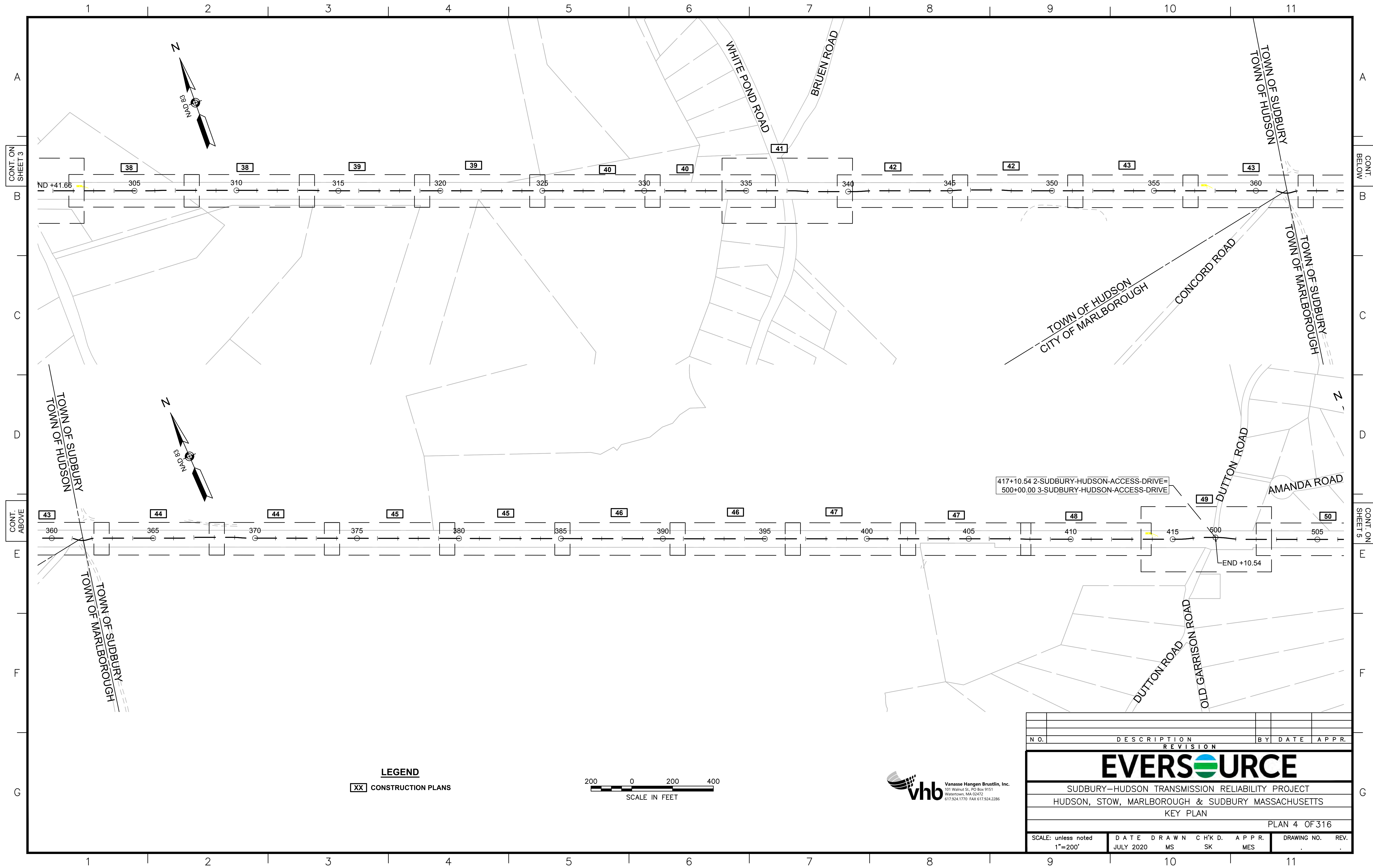
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| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.            |
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| REVISION  |                   |             |              |                  |
| <b>EVERSOURCE</b>                                 |                   |             |              |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |                  |
| TITLE SHEET & INDEX                               |                   |             |              |                  |
| PLAN 1 OF 316                                     |                   |             |              |                  |
| SCALE: unless noted<br>1"=3500'                   | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS      |
|   |                   |             |              | DRAWING NO. REV. |

| GENERAL SYMBOLS |          | GENERAL SYMBOLS (cont.) |          | PAVEMENT MARKINGS SYMBOLS |          | GENERAL NOTES: |  |
|-----------------|----------|-------------------------|----------|---------------------------|----------|----------------|--|
| EXISTING        | PROPOSED | EXISTING                | PROPOSED | EXISTING                  | PROPOSED | EXISTING       | PROPOSED   |
|                 |          |                         |          |                           |          | 1.             | THE PROPERTY LINES SHOWN ON THIS PLAN OF THE PARCELS AT 44 FOREST AVENUE IN HUDSON, 163 BOSTON POST ROAD IN SUDBURY AND THE FORMER RAILROAD RIGHT-OF-WAY ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN 2015 AND FROM DEEDS AND PLANS OF RECORD.  |
|                 |          |                         |          |                           |          | 2.             | THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.  |
|                 |          |                         |          |                           |          | 3.             | THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).   |
|                 |          |                         |          |                           |          | 4.             | THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.  |
|                 |          |                         |          |                           |          | 5.             | THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. |
|                 |          |                         |          |                           |          | 6.             | THE DELINEATED WETLANDS SHOWN ON THIS PLAN WERE FLAGGED BY THE VHB ENVIRONMENTAL DEPARTMENT AND FIELD SURVEYED BY THE VHB SURVEY DEPARTMENT IN SEPTEMBER AND OCTOBER 2017 AND WERE UPDATED IN MAY 2018 (SUDBURY ONLY).   |
|                 |          |                         |          |                           |          | 7.             | THE APPROXIMATE WETLANDS AND STREAMS, AND THEIR ASSOCIATED BUFFERS AND RIVERFRONT AREAS, WHERE APPLICABLE, WERE TAKEN FROM AVAILABLE MASSGIS DATA. THESE WERE NOT FIELD DELINEATED OR FIELD VERIFIED.  |
|                 |          |                         |          |                           |          | 8.             | THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES THAT MAY CONFLICT WITH PROPOSED TRANSMISSION LINE. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.   |
|                 |          |                         |          |                           |          | 9.             | WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.   |
|                 |          |                         |          |                           |          | 10.            | THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.  |
|                 |          |                         |          |                           |          | 11.            | THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.   |
|                 |          |                         |          |                           |          | 12.            | EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED.  |
|                 |          |                         |          |                           |          | 13.            | TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.   |
|                 |          |                         |          |                           |          | 14.            | AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.   |
|                 |          |                         |          |                           |          | 15.            | THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).  |
|                 |          |                         |          |                           |          | 16.            | ALL PROP LOAM AND SEED CALLED OUT ON THE CONSTRUCTION PLANS TO ADHERE TO PLANTING SCHEDULE C PROVIDED ON DETAIL SHEET 131 UNLESS NOTED OTHERWISE.  |
|                 |          |                         |          |                           |          | 17.            | JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDED.   |
|                 |          |                         |          |                           |          | 18.            | EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.   |
|                 |          |                         |          |                           |          | 19.            | IF SUITABLE, ALL EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.  |
|                 |          |                         |          |                           |          | 20.            | ALL PROPOSED HOT MIX ASPHALT CURB SHALL BE MASSDOT TYPE 2.   |
|                 |          |                         |          |                           |          | 21.            | ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.  |
|                 |          |                         |          |                           |          | 22.            | ALL PROPOSED BOUNDS SHALL BE PLACED BY A LICENSED PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.  |
|                 |          |                         |          |                           |          | 23.            | DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER AND IN ACCORDANCE WITH ALL PERMITS AND LAWS REGULATING SOIL DISPOSAL.  |
|                 |          |                         |          |                           |          | 24.            | LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS.   |
|                 |          |                         |          |                           |          | 25.            | WHERE DEWATERING IS REQUIRED, CONTRACTOR SHALL TREAT WATER WITH DEWATERING BASIN OR DEWATERING FILTER BAGS BASED ON INPUT FROM LOCAL CONSERVATION COMMISSIONS.   |
|                 |          |                         |          |                           |          | 26.            | SYNCPATED SILT FENCE TO BE USED AS AN EROSION CONTROL BARRIER WITHIN 100' VERNAL POOL BUFFER ZONES AND PRIORITY HABITAT AREAS.   |
|                 |          |                         |          |                           |          | 27.            | THE LOCATIONS OF ALL EROSION CONTROL BARRIER SHALL BE ESTABLISHED BY SURVEY-GRADE EQUIPMENT AND ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.   |
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| <b>REVISION</b>                                   |             |       |          |       |
| <b>EVERSOURCE</b>                                 |             |       |          |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |          |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |          |       |
| LEGEND, ABBREVIATIONS, & GENERAL NOTES            |             |       |          |       |
| PLAN 2 OF 316                                     |             |       |          |       |
| SCALE: unless noted                               | DATE        | DRAWN | C'H'K D. | APPR. |
| NTS   | JULY 2020   | MS    | SK       | MS    |
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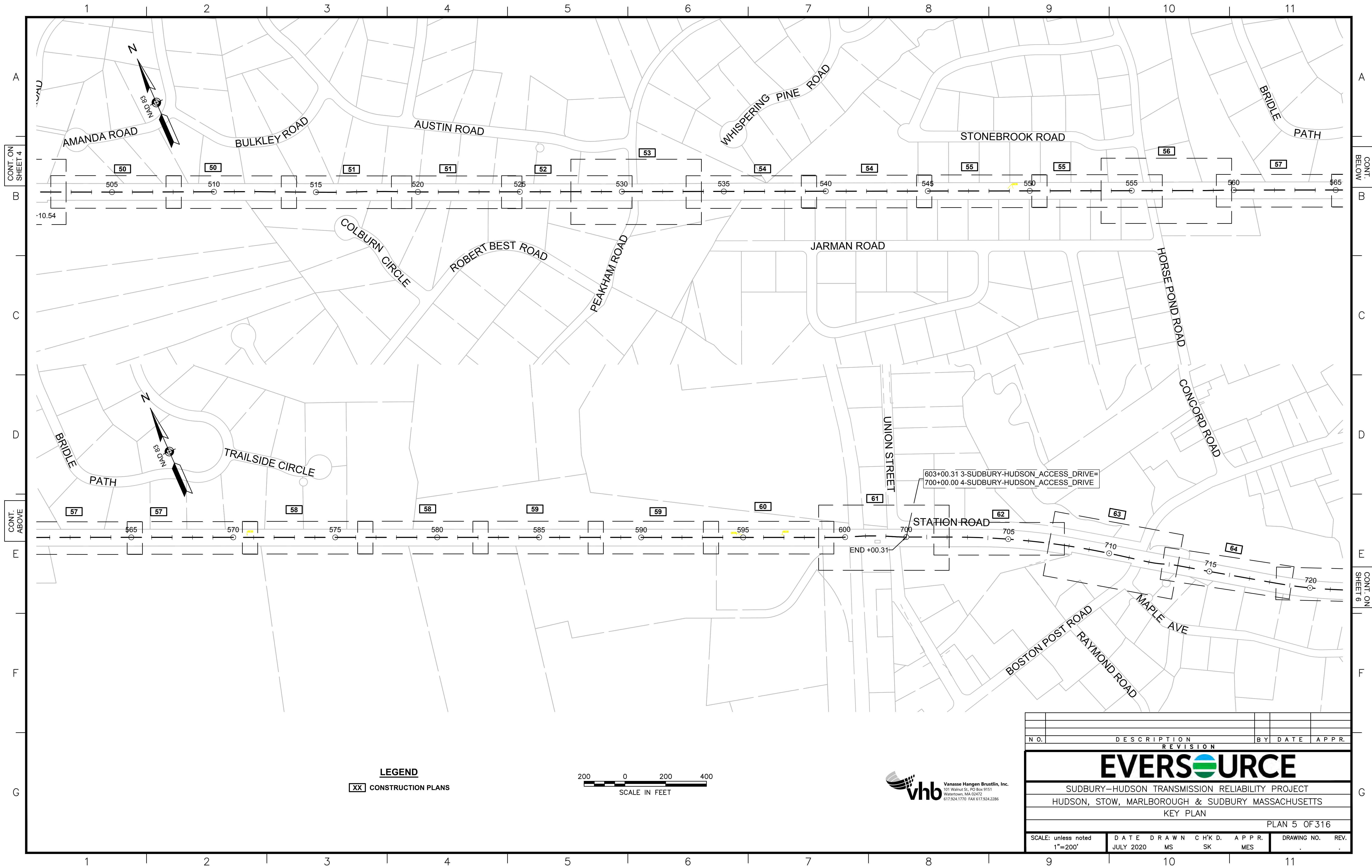
CONT. ON SHEET 5

**LEGEND**

**XX** CONSTRUCTION PLANS



| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
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| <b>REVISION</b>                                   |                   |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| KEY PLAN  |                   |             |                |              |
| PLAN 4 OF 316                                     |                   |             |                |              |
| SCALE: unless noted<br>1"=200'                    | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |



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CONT. ON SHEET 6

**LEGEND**  
 XX CONSTRUCTION PLANS



**vhb**  
 Vanasse Hangen Brustlin, Inc.  
 101 Walnut St., PO Box 9151  
 Watertown, MA 02472  
 617-924-1770 FAX 617-924-2286

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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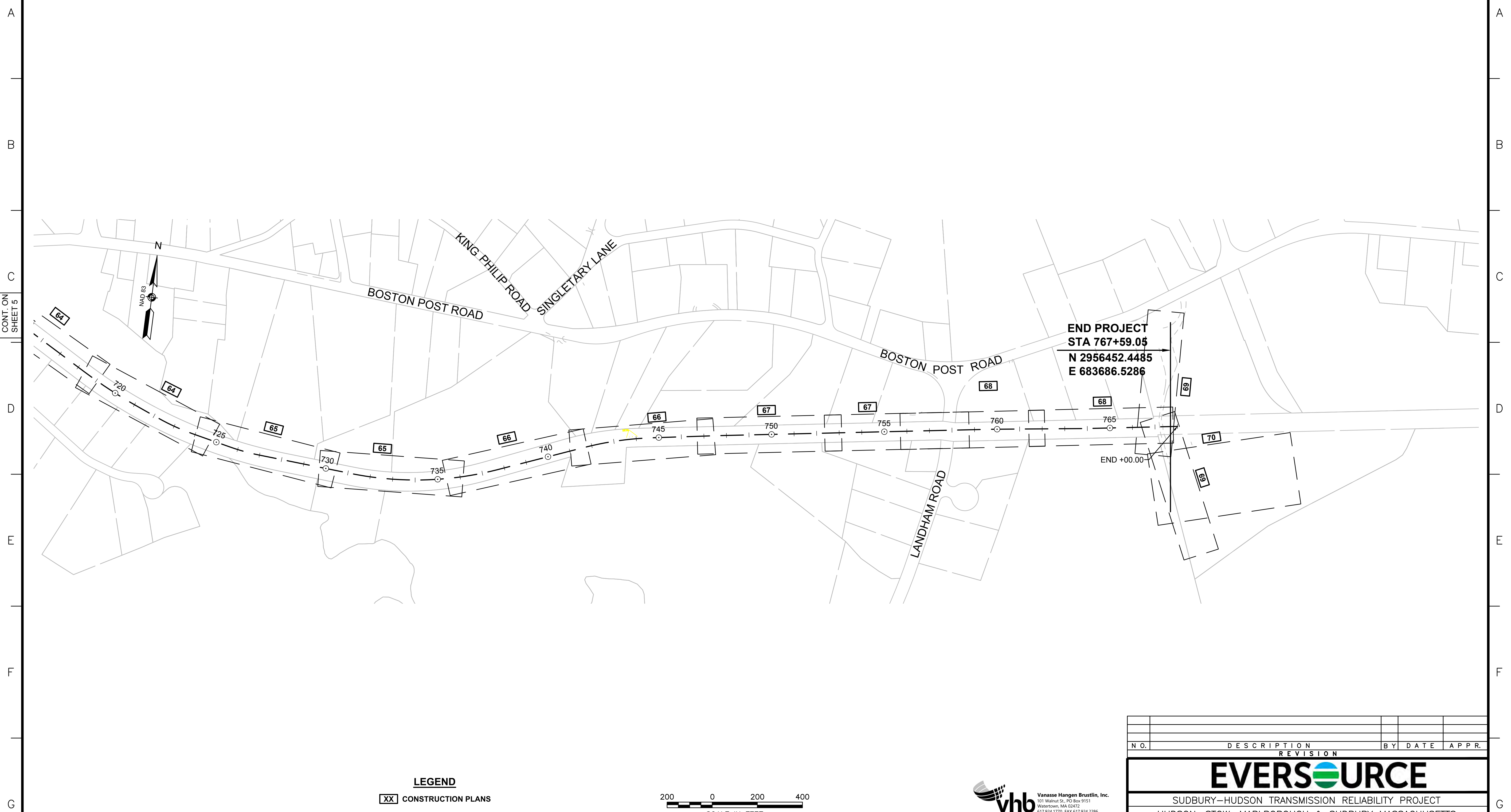
**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 KEY PLAN

PLAN 5 OF 316

|                                |                   |             |                |              |                   |      |
|--------------------------------|-------------------|-------------|----------------|--------------|-------------------|------|
| SCALE: unless noted<br>1"=200' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES | DRAWING NO.<br>11 | REV. |
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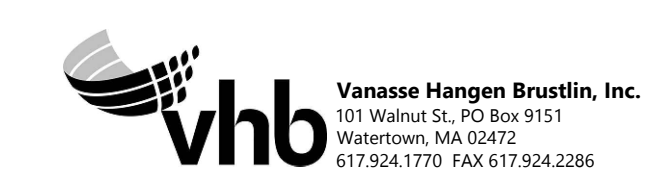
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**END PROJECT**  
**STA 767+59.05**  
**N 2956452.4485**  
**E 683686.5286**

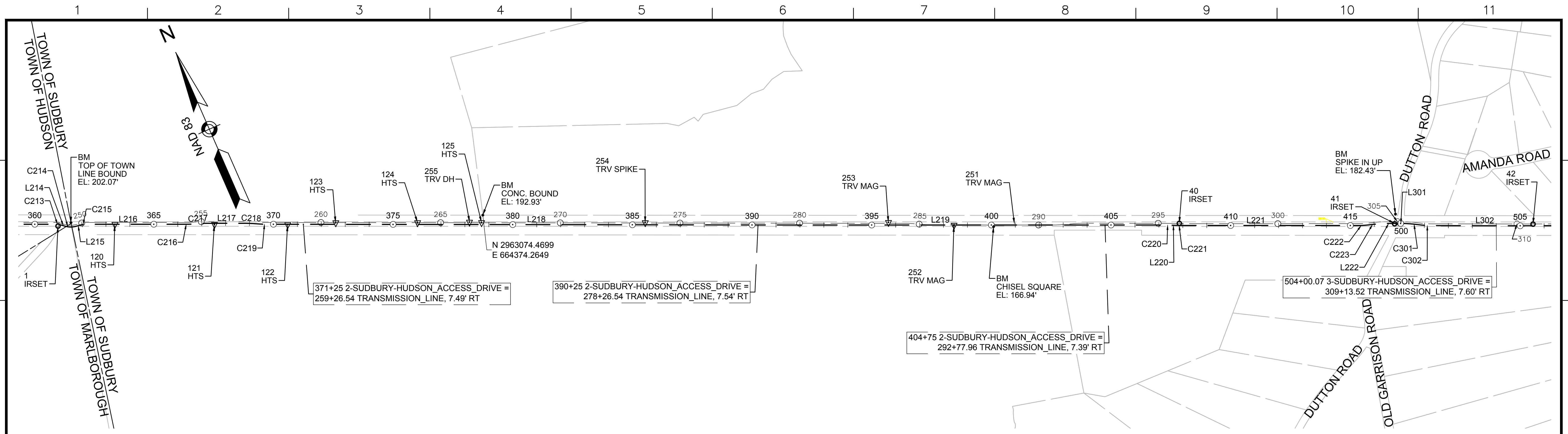
**LEGEND**

**XX** CONSTRUCTION PLANS



| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.           |
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| <b>EVERSOURCE</b>                                 |                   |             |                |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |                 |
| KEY PLAN  |                   |             |                |                 |
| PLAN 6 OF 316                                     |                   |             |                |                 |
| SCALE: unless noted<br>1"=200'                    | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A P P R.<br>MES |
| DRAWING NO.                                       | REV.              |             |                | 11              |

1 2 3 4 5 6 7 8 9 10 11



| NUMBER | STARTING STATION | NORTHING    | EASTING    | CURVE DATA                             | LINE DATA            | ENDING STATION | NORTHING    | EASTING    |
|--------|------------------|-------------|------------|--|----------------------|----------------|-------------|------------|
| C213   | 360+88.26        | 2963756.220 | 662725.416 | R=80.00' Δ=16°41'57" L=23.32' T=11.74' |                      | 361+11.58      | 2963743.895 | 662745.111 |
| L214   | 361+11.58        | 2963743.895 | 662745.111 |  | S49°36'43"E 16.84'   | 361+28.41      | 2963732.985 | 662757.935 |
| C214   | 361+28.41        | 2963732.985 | 662757.935 | R=80.00' Δ=32°54'10" L=45.94' T=23.62' |                      | 361+74.35      | 2963714.601 | 662799.350 |
| L215   | 361+74.35        | 2963714.601 | 662799.350 |  | S82°30'53"E 18.74'   | 361+93.10      | 2963712.159 | 662817.933 |
| C215   | 361+93.10        | 2963712.159 | 662817.933 | R=80.00' Δ=16°12'13" L=22.62' T=11.39' |                      | 362+15.72      | 2963706.100 | 662839.653 |
| L216   | 362+15.72        | 2963706.100 | 662839.653 |  | S66°18'41"E 417.03'  | 366+32.74      | 2963538.553 | 663221.540 |
| C216   | 366+32.74        | 2963538.553 | 663221.540 | R=500.00' Δ=5°07'35" L=44.74' T=22.38' |                      | 366+77.48      | 2963522.435 | 663263.256 |
| C217   | 366+77.48        | 2963522.435 | 663263.256 | R=500.00' Δ=5°07'35" L=44.74' T=22.38' |                      | 367+22.22      | 2963506.317 | 663304.972 |
| L217   | 367+22.22        | 2963506.317 | 663304.972 |  | S66°18'41"E 162.17'  | 368+84.39      | 2963441.162 | 663453.479 |
| C218   | 368+84.39        | 2963441.162 | 663453.479 | R=500.00' Δ=5°03'10" L=44.09' T=22.06' |                      | 369+28.48      | 2963421.691 | 663493.024 |
| C219   | 369+28.48        | 2963421.691 | 663493.024 | R=500.00' Δ=4°58'12" L=43.37' T=21.70' |                      | 369+71.85      | 2963402.510 | 663531.908 |
| L218   | 369+71.85        | 2963402.510 | 663531.908 |  | S66°13'43"E 2255.15' | 392+27.00      | 2962493.483 | 665595.730 |
| L219   | 392+27.00        | 2962493.483 | 665595.730 |  | S66°18'55"E 1499.60' | 407+26.60      | 2961891.088 | 666969.015 |
| C220   | 407+26.60        | 2961891.088 | 666969.015 | R=500.00' Δ=2°19'04" L=20.23' T=10.11' |                      | 407+46.82      | 2961882.591 | 666987.368 |
| L220   | 407+46.82        | 2961882.591 | 666987.368 |  | S63°59'51"E 27.94'   | 407+74.76      | 2961870.342 | 667012.481 |
| C221   | 407+74.76        | 2961870.342 | 667012.481 | R=500.00' Δ=2°17'42" L=20.03' T=10.01' |                      | 407+94.79      | 2961861.924 | 667030.651 |
| L221   | 407+94.79        | 2961861.924 | 667030.651 |  | S66°17'33"E 730.94'  | 415+25.73      | 2961568.037 | 667699.907 |
| C222   | 415+25.73        | 2961568.037 | 667699.907 | R=499.59' Δ=7°40'18" L=66.89' T=33.50' |                      | 415+92.62      | 2961545.316 | 667762.771 |
| C223   | 415+92.62        | 2961545.316 | 667762.771 | R=500.00' Δ=7°45'40" L=67.73' T=33.92' |                      | 416+60.35      | 2961522.262 | 667826.400 |
| L222   | 416+60.35        | 2961522.262 | 667826.400 |  | S66°12'11"E 50.19'   | 417+10.54      | 2961502.012 | 667872.321 |

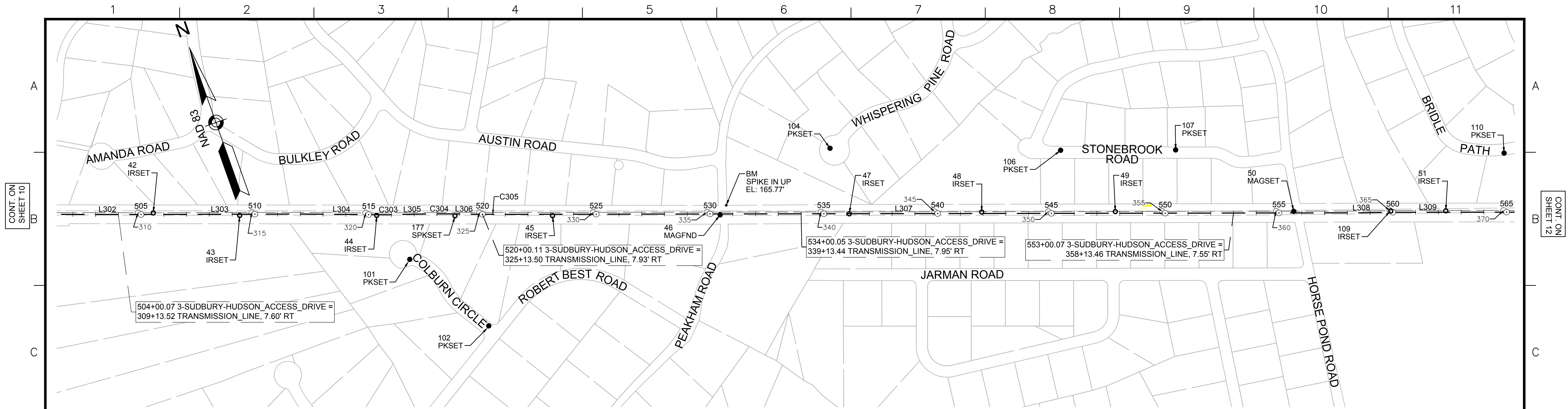
| NUMBER | STARTING STATION | NORTHING    | EASTING    | CURVE DATA                             | LINE DATA           | ENDING STATION | NORTHING    | EASTING    |
|--------|------------------|-------------|------------|--|---------------------|----------------|-------------|------------|
| L301   | 500+00.00        | 2961502.012 | 667872.321 |  | S66°12'11"E 2.28'   | 500+02.28      | 2961501.092 | 667874.407 |
| C301   | 500+02.28        | 2961501.092 | 667874.407 | R=500.00' Δ=7°41'35" L=67.14' T=33.62' |                     | 500+69.41      | 2961469.967 | 667933.834 |
| C302   | 500+69.41        | 2961469.967 | 667933.834 | R=500.00' Δ=7°41'34" L=67.13' T=33.62' |                     | 501+36.55      | 2961438.842 | 667993.259 |
| L302   | 501+36.55        | 2961438.842 | 667993.259 |  | S66°12'10"E 352.24' | 504+88.78      | 2961296.716 | 668315.548 |

| NORTHING    | EASTING    | ELEV   | DESCRIPTION            |
|-------------|------------|--------|------------------------|
| 2963737.068 | 662785.722 | 202.07 | TOP OF TOWN LINE BOUND |
| 2963074.470 | 664374.265 | 192.93 | CONC. BOUND            |
| 2962172.866 | 666309.477 | 166.94 | CHISEL SQUARE          |
| 2961546.450 | 667868.173 | 182.43 | SPIKE IN UP            |

| POINT # | NORTHING    | EASTING    | ELEV   | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
|---------|-------------|------------|--------|-----------------|----------------|---------------|
| 1       | 2963745.726 | 662730.239 | 198.48 | IRSET           | 360+96.89      | 7.67 RT       |
| 40      | 2961873.800 | 667025.482 | 171.31 | IRSET           | 407+82.40      | 8.70 LT       |
| 41      | 2961510.586 | 667848.645 | 181.70 | IRSET           | 416+82.29      | 7.29 LT       |
| 42      | 2961276.984 | 668377.806 | 188.16 | IRSET           | 505+53.68      | 6.74 LT       |
| 120     | 2963656.875 | 662950.210 | 197.18 | HTS             | 363+34.03      | 0.66 RT       |
| 121     | 2963489.402 | 663331.297 | 194.65 | HTS             | 367+50.41      | 4.91 RT       |
| 122     | 2963365.831 | 663611.237 | 193.31 | HTS             | 370+56.52      | 1.59 RT       |
| 123     | 2963292.393 | 663798.336 | 191.85 | HTS             | 372+57.35      | 6.62 LT       |
| 124     | 2963155.264 | 664111.471 | 190.70 | HTS             | 375+99.20      | 7.35 LT       |
| 125     | 2963048.085 | 664356.309 | 188.72 | HTS             | 378+66.46      | 7.95 LT       |
| 252     | 2962245.033 | 666160.019 | 168.98 | TRV MAG         | 398+40.85      | 0.85 RT       |
| 253     | 2962365.661 | 665913.641 | 171.64 | TRV MAG         | 395+66.77      | 10.65 LT      |
| 254     | 2962773.106 | 664982.657 | 181.84 | TRV SPIKE       | 385+50.51      | 8.78 LT       |
| 255     | 2963070.212 | 664310.860 | 189.64 | TRV DH          | 378+15.95      | 9.88 LT       |
| 18000   | 2962245.042 | 666159.997 | 169.01 | ZZ              | 398+40.83      | 0.85 RT       |
| 18044   | 2962245.028 | 666160.012 | 168.98 | ZZ              | 398+40.85      | 0.85 RT       |
| 18045   | 2962245.041 | 666159.998 | 168.99 | ZZ              | 398+40.83      | 0.85 RT       |
| 18115   | 2962244.993 | 666159.978 | 169.01 | ZZ              | 398+40.83      | 0.90 RT       |



|   |                   |             |              |               |
|---|-------------------|-------------|--------------|---------------|
| NO.   | DESCRIPTION       | BY          | DATE         | APP.          |
| REVISION  |                   |             |              |               |
| <b>EVERSOURCE</b>                                 |                   |             |              |               |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |               |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |               |
| SURVEY TIE-IN PLANS                               |                   |             |              |               |
| PLAN 10 OF 316                                    |                   |             |              |               |
| SCALE: unless noted<br>1"=200'                    | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP.R.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |               |



| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA |                  |             |            |  |                         |                |             |
|--|------------------|-------------|------------|--|-------------------------|----------------|-------------|
| NUMBER   | STARTING STATION | NORTHING    | EASTING    | CURVE DATA                                   | LINE DATA               | ENDING STATION | EASTING     |
| L302   | 501+36.55        | 2961438.842 | 667993.259 |  | S66°12'10"E<br>352.24'  | 504+88.78      | 2961296.716 |
| L303   | 504+88.78        | 2961296.716 | 668315.548 |  | S66°29'41"E<br>714.53'  | 512+03.31      | 2961011.736 |
| L304   | 512+03.31        | 2961011.736 | 668970.789 |  | S65°47'36"E<br>355.56'  | 515+58.87      | 2960865.948 |
| C303   | 515+58.87        | 2960865.948 | 669295.083 | R=2000.00' Δ=2°02'02"<br>L=70.99' T=35.50'   |                         | 516+29.86      | 2960837.994 |
| L305   | 516+29.86        | 2960837.994 | 669360.337 |  | S67°49'38"E<br>62.53'   | 516+92.40      | 2960814.394 |
| C304   | 516+92.40        | 2960814.394 | 669418.247 | R=5000.00' Δ=2°28'08"<br>L=215.46' T=107.75' |                         | 519+07.86      | 2960728.805 |
| L306   | 519+07.86        | 2960728.805 | 669615.962 |  | S65°21'30"E<br>56.37'   | 519+64.23      | 2960705.304 |
| C305   | 519+64.23        | 2960705.304 | 669667.194 | R=5000.00' Δ=1°03'24"<br>L=92.20' T=46.10'   |                         | 520+56.43      | 2960667.637 |
| L307   | 520+56.43        | 2960667.637 | 669751.349 |  | S66°24'53"E<br>3804.53' | 558+60.96      | 2959145.398 |
| L308   | 558+60.96        | 2959145.398 | 673238.076 |  | S67°25'05"E<br>114.60'  | 559+75.56      | 2959101.392 |
| L309   | 559+75.56        | 2959101.392 | 673343.887 |  | S66°25'05"E<br>324.74'  | 563+00.30      | 2958971.476 |

| SURVEY TRAVERSE TABLE |             |            |        |                 |                |               |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT #               | NORTHING    | EASTING    | ELEV   | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 42                    | 2961276.984 | 668377.806 | 188.16 | IRSET           | 505+53.68      | 6.74 LT       |
| 43                    | 2961114.242 | 668720.884 | 186.90 | IRSET           | 509+33.20      | 5.67 RT       |
| 44                    | 2960872.290 | 669272.068 | 179.54 | IRSET           | 515+35.16      | 5.71 RT       |
| 45                    | 2960561.109 | 669979.507 | 170.77 | IRSET           | 523+08.08      | 6.11 RT       |
| 46                    | 2960268.559 | 670655.156 | 164.98 | MAGFND          | 530+44.34      | 3.24 RT       |
| 47                    | 2960044.841 | 671176.622 | 158.38 | IRSET           | 536+11.75      | 0.17 LT       |
| 48                    | 2959818.439 | 671712.628 | 158.76 | IRSET           | 541+93.58      | 6.87 LT       |
| 49                    | 2959584.190 | 672250.767 | 164.97 | IRSET           | 547+80.51      | 7.26 LT       |
| 50                    | 2959270.319 | 672969.429 | 166.74 | MAGSET          | 555+64.70      | 7.01 LT       |
| 51                    | 2959003.971 | 673581.771 | 161.78 | IRSET           | 562+32.47      | 5.88 LT       |
| 101                   | 2960637.452 | 669327.889 | 173.64 | PKSET           | 516+80.03      | 200.80 RT     |
| 102                   | 2960230.460 | 669528.351 | 161.76 | PKSET           | 520+29.54      | 489.96 RT     |
| 104                   | 2960342.456 | 671214.805 | 164.66 | PKSET           | 535+27.81      | 288.24 LT     |
| 106                   | 2959927.516 | 672139.020 | 156.93 | PKSET           | 545+40.82      | 277.29 LT     |
| 107                   | 2959725.836 | 672602.609 | 167.23 | PKSET           | 550+46.28      | 277.74 LT     |
| 109                   | 2959100.366 | 673360.157 | 163.15 | IRSET           | 559+90.81      | 5.57 LT       |
| 110                   | 2959133.231 | 673918.507 | 165.88 | PKSET           | 564+88.88      | 259.43 LT     |
| 177                   | 2960732.743 | 669586.484 | 175.07 | SPKSET          | 518+79.35      | 8.71 RT       |

| BENCHMARK TABLE |            |        |             |
|-----------------|------------|--------|-------------|
| NORTHING        | EASTING    | ELEV   | DESCRIPTION |
| 2960296.323     | 670696.507 | 165.77 | SPIKE IN UP |



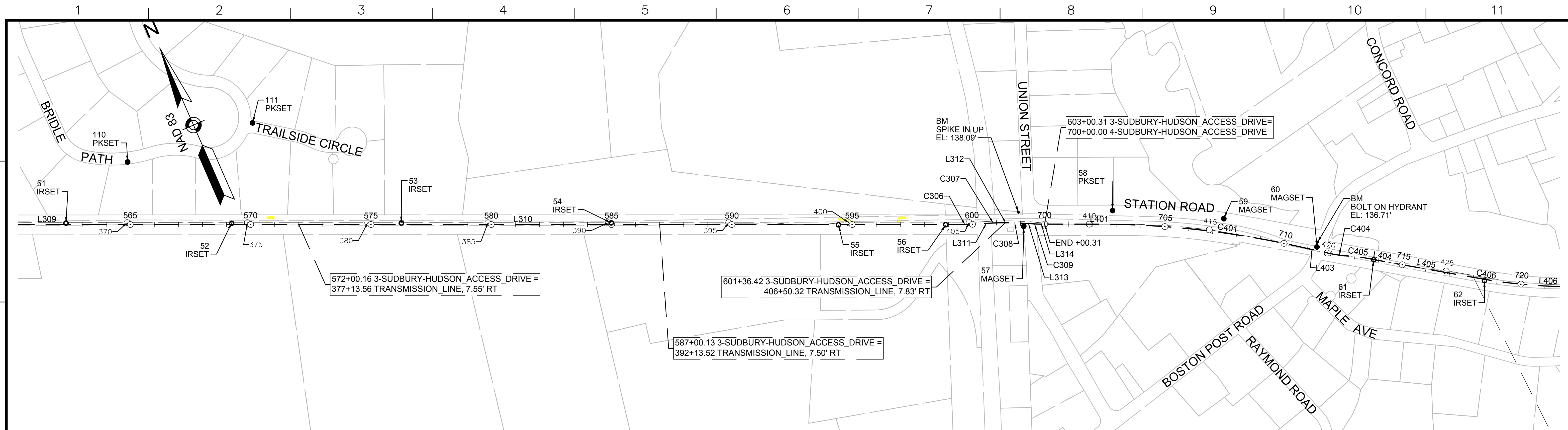
| N.O. | DESCRIPTION | BY | DATE | APPR. |
|------|-------------|----|------|-------|
|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 SURVEY TIE-IN PLANS

PLAN 11 OF 316

|                                |                   |             |               |                 |                   |      |
|--------------------------------|-------------------|-------------|---------------|-----------------|-------------------|------|
| SCALE: unless noted<br>1"=200' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO.<br>11 | REV. |
|--------------------------------|-------------------|-------------|---------------|-----------------|-------------------|------|



CONT. ON SHEET 11

CONT. ON SHEET 13

| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA |                  |             |            |   |                         |                |                        |
|--|------------------|-------------|------------|---|-------------------------|----------------|------------------------|
| NUMBER   | STARTING STATION | NORTHING    | EASTING    | CURVE DATA                                      | LINE DATA               | ENDING STATION | EASTING                |
| L309   | 559+75.56        | 2959101.392 | 673343.887 |   | S66°25'05"E<br>324.74'  | 563+00.30      | 2958971.476 673641.508 |
| L310   | 563+00.30        | 2958971.476 | 673641.508 |   | S66°18'26"E<br>3665.57' | 599+65.87      | 2957498.529 676998.123 |
| C306   | 599+65.87        | 2957498.529 | 676998.123 | R=500.00'<br>L=31.71'<br>Δ=3°38'00"<br>T=15.86' |                         | 599+97.58      | 2957486.717 677027.541 |
| L311   | 599+97.58        | 2957486.717 | 677027.541 |   | S69°56'26"E<br>84.99'   | 600+82.57      | 2957457.567 677107.371 |
| C307   | 600+82.57        | 2957457.567 | 677107.371 | R=500.00'<br>L=31.81'<br>Δ=3°38'42"<br>T=15.91' |                         | 601+14.37      | 2957445.714 677136.884 |
| L312   | 601+14.37        | 2957445.714 | 677136.884 |   | S66°17'43"E<br>47.14'   | 601+61.52      | 2957426.761 677180.049 |
| C308   | 601+61.52        | 2957426.761 | 677180.049 | R=500.00'<br>L=28.08'<br>Δ=3°13'05"<br>T=14.05' |                         | 601+89.60      | 2957414.756 677205.432 |
| L313   | 601+89.60        | 2957414.756 | 677205.432 |   | S63°04'38"E<br>68.56'   | 602+58.16      | 2957383.711 677266.565 |
| C309   | 602+58.16        | 2957383.711 | 677266.565 | R=500.00'<br>L=28.08'<br>Δ=3°13'05"<br>T=14.05' |                         | 602+86.25      | 2957371.705 677291.948 |
| L314   | 602+86.25        | 2957371.705 | 677291.948 |   | S66°17'43"E<br>14.06'   | 603+00.31      | 2957366.053 677304.821 |

| 4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA |                  |             |            |   |                        |                |                        |
|--|------------------|-------------|------------|---|------------------------|----------------|------------------------|
| NUMBER   | STARTING STATION | NORTHING    | EASTING    | CURVE DATA  | LINE DATA              | ENDING STATION | EASTING                |
| L401   | 700+00.00        | 2957366.053 | 677304.821 |   | S66°14'03"E<br>231.13' | 702+31.13      | 2957272.909 677516.349 |
| C401   | 702+31.13        | 2957272.909 | 677516.349 | R=3750.00'<br>L=813.02'<br>Δ=12°25'19"<br>T=408.11' |                        | 710+44.14      | 2956867.482 678219.228 |
| L403   | 710+44.14        | 2956867.482 | 678219.228 |   | S53°48'44"E<br>149.49' | 711+93.63      | 2956779.221 678339.877 |
| C404   | 711+93.63        | 2956779.221 | 678339.877 | R=500.00'<br>L=84.03'<br>Δ=9°37'46"<br>T=42.12'     |                        | 712+77.66      | 2956735.524 678411.539 |
| C405   | 712+77.66        | 2956735.524 | 678411.539 | R=500.00'<br>L=66.80'<br>Δ=7°39'17"<br>T=33.45'     |                        | 713+44.46      | 2956701.760 678469.121 |
| L404   | 713+44.46        | 2956701.760 | 678469.121 |   | S55°47'13"E<br>137.37' | 714+81.84      | 2956624.519 678582.722 |
| L405   | 714+81.84        | 2956624.519 | 678582.722 |   | S56°18'15"E<br>352.06' | 718+33.90      | 2956429.201 678875.635 |
| C406   | 718+33.90        | 2956429.201 | 678875.635 | R=2150.00'<br>L=279.56'<br>Δ=7°27'00"<br>T=139.98'  |                        | 721+13.46      | 2956289.642 679117.643 |
| L406   | 721+13.46        | 2956289.642 | 679117.643 |   | S63°45'15"E<br>104.16' | 722+17.62      | 2956243.579 679211.069 |

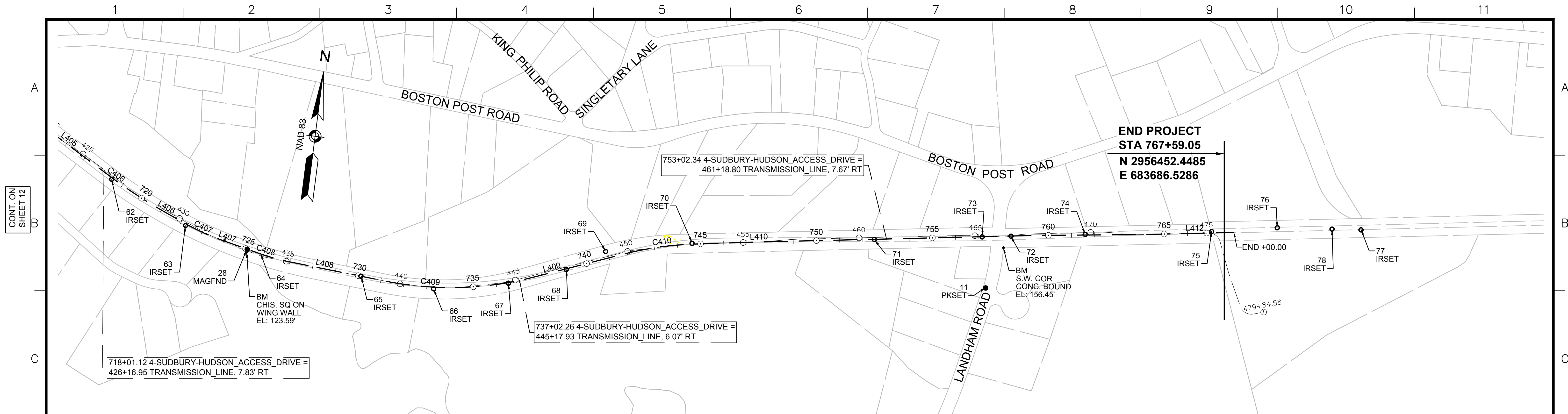
| SURVEY TRAVERSE TABLE |             |            |        |                 |                |               |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT #               | NORTHING    | EASTING    | ELEV   | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 51                    | 2959003.971 | 673581.771 | 161.78 | IRSET           | 562+32.47      | 5.88 LT       |
| 52                    | 2958726.419 | 674211.952 | 162.45 | IRSET           | 569+21.06      | 4.82 LT       |
| 53                    | 2958444.371 | 674858.194 | 159.51 | IRSET           | 576+26.17      | 6.23 LT       |
| 54                    | 2958094.408 | 675657.138 | 150.43 | IRSET           | 584+98.40      | 6.80 LT       |
| 55                    | 2957707.933 | 676518.674 | 141.46 | IRSET           | 594+42.61      | 0.90 RT       |
| 56                    | 2957528.922 | 676927.440 | 137.87 | IRSET           | 598+88.86      | 0.57 RT       |
| 57                    | 2957392.601 | 677221.786 | 136.73 | MAGSET          | 602+14.14      | 12.35 RT      |
| 58                    | 2957304.172 | 677585.894 | 133.06 | PKSET           | 702+82.18      | 56.64 LT      |
| 59                    | 2957087.530 | 677995.592 | 132.68 | MAGSET          | 707+37.83      | 54.69 LT      |
| 60                    | 2956824.551 | 678302.748 | 134.41 | MAGSET          | 711+37.94      | 8.24 LT       |
| 61                    | 2956680.926 | 678497.843 | 132.30 | IRSET           | 713+80.00      | 1.09 RT       |
| 62                    | 2956416.645 | 678884.311 | 130.43 | IRSET           | 718+48.12      | 5.68 RT       |
| 110                   | 2959133.231 | 673918.507 | 165.88 | PKSET           | 564+88.88      | 259.43 LT     |
| 111                   | 2959073.271 | 674459.148 | 167.27 | PKSET           | 570+08.04      | 421.77 LT     |

| BENCHMARK TABLE |            |        |                 |
|-----------------|------------|--------|-----------------|
| NORTHING        | EASTING    | ELEV   | DESCRIPTION     |
| 2957455.231     | 677224.797 | 138.09 | SPIKE IN UP     |
| 2956841.239     | 678313.243 | 136.71 | BOLT ON HYDRANT |



|   |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
|---|--|--|--|-------------------|--|--|--|-------------|--|--|--|--------------|--|--|--|--------------|--|--|--|
| NO.   |  |  |  | DESCRIPTION       |  |  |  | BY DATE     |  |  |  | APPR.        |  |  |  |              |  |  |  |
|   |  |  |  | REVISION          |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| <b>EVERSOURCE</b>                                 |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| SURVEY TIE-IN PLANS                               |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| PLAN 12 OF 316                                    |  |  |  |                   |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |
| SCALE: unless noted<br>1"=200'                    |  |  |  | DATE<br>JULY 2020 |  |  |  | DRAWN<br>MS |  |  |  | CHK'D.<br>SK |  |  |  | APPR.<br>MES |  |  |  |
| DRAWING NO.                                       |  |  |  | REV.              |  |  |  |             |  |  |  |              |  |  |  |              |  |  |  |

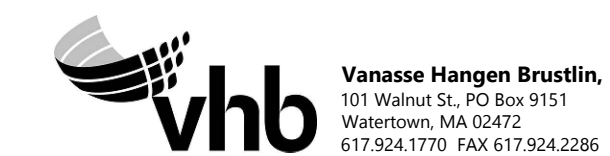




| 4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA |                  |             |            |   |                        |                |             |            |
|--|------------------|-------------|------------|---|------------------------|----------------|-------------|------------|
| NUMBER   | STARTING STATION | NORTHING    | EASTING    | CURVE DATA  | LINE DATA              | ENDING STATION | NORTHING    | EASTING    |
| L405   | 714+81.84        | 2956624.519 | 678582.722 |   | S56°18'15"E<br>352.06' | 718+33.90      | 2956429.201 | 678875.635 |
| C406   | 718+33.90        | 2956429.201 | 678875.635 | R=2150.00'<br>L=279.96'<br>Δ=7°27'00"<br>T=139.98'  |                        | 721+13.46      | 2956289.642 | 679117.643 |
| L406   | 721+13.46        | 2956289.642 | 679117.643 |   | S63°45'15"E<br>104.16' | 722+17.62      | 2956243.579 | 679211.069 |
| C407   | 722+17.62        | 2956243.579 | 679211.069 | R=1000.00'<br>L=172.63'<br>Δ=9°53'27"<br>T=86.53'   |                        | 723+90.25      | 2956180.949 | 679371.703 |
| L407   | 723+90.25        | 2956180.949 | 679371.703 |   | S73°38'42"E<br>171.77' | 725+62.02      | 2956132.580 | 679536.524 |
| C408   | 725+62.02        | 2956132.580 | 679536.524 | R=975.00'<br>L=138.56'<br>Δ=8°08'34"<br>T=69.40'    |                        | 727+00.58      | 2956103.125 | 679671.802 |
| L408   | 727+00.58        | 2956103.125 | 679671.802 |   | S81°47'16"E<br>414.21' | 731+14.79      | 2956043.959 | 680081.760 |
| C409   | 731+14.79        | 2956043.959 | 680081.760 | R=1450.00'<br>L=651.62'<br>Δ=25°44'54"<br>T=331.41' |                        | 737+66.41      | 2956096.475 | 680725.774 |
| L409   | 737+66.41        | 2956096.475 | 680725.774 |   | N72°27'50"E<br>398.71' | 741+65.12      | 2956216.609 | 681105.957 |
| C410   | 741+65.12        | 2956216.609 | 681105.957 | R=1400.00'<br>L=304.86'<br>Δ=12°28'35"<br>T=153.03' |                        | 744+69.98      | 2956276.216 | 681404.316 |
| L410   | 744+69.98        | 2956276.216 | 681404.316 |   | N84°56'25"E<br>284.93' | 747+54.91      | 2956301.344 | 681688.134 |
| L412   | 763+88.36        | 2956423.284 | 683316.984 |   | N85°29'15"E<br>411.64' | 768+00.00      | 2956455.670 | 683727.352 |

| SURVEY TRAVERSE TABLE |             |            |        |                 |                |               |
|-----------------------|-------------|------------|--------|-----------------|----------------|---------------|
| POINT #               | NORTHING    | EASTING    | ELEV   | RAW DESCRIPTION | STATION CONSTR | OFFSET CONSTR |
| 28                    | 2956147.431 | 679484.162 |        | MAGFND          | 725+07.67      | 0.49 RT       |
| 62                    | 2956416.645 | 678884.311 | 130.43 | IRSET           | 718+48.12      | 5.68 RT       |
| 63                    | 2956235.685 | 679213.375 | 127.74 | IRSET           | 722+23.22      | 6.08 RT       |
| 65                    | 2956058.540 | 679980.234 | 127.40 | IRSET           | 730+12.41      | 0.07 RT       |
| 66                    | 2956021.600 | 680295.859 | 127.83 | IRSET           | 733+29.75      | 7.51 RT       |
| 67                    | 2956063.791 | 680616.525 | 128.45 | IRSET           | 736+52.67      | 2.73 RT       |
| 68                    | 2956136.912 | 680862.069 | 128.00 | IRSET           | 739+08.74      | 2.51 RT       |
| 69                    | 2956223.381 | 681027.685 | 126.87 | IRSET           | 740+92.72      | 30.04 LT      |
| 70                    | 2956279.196 | 681397.664 | 129.15 | IRSET           | 744+63.82      | 3.57 LT       |
| 71                    | 2956339.379 | 682181.246 | 134.16 | IRSET           | 752+49.67      | 0.88 RT       |
| 72                    | 2956386.005 | 682768.909 | 139.33 | IRSET           | 758+39.18      | 0.63 RT       |
| 73                    | 2956376.175 | 682645.008 | 138.67 | IRSET           | 757+14.89      | 0.68 RT       |
| 74                    | 2956411.369 | 683087.697 | 139.08 | IRSET           | 761+58.97      | 0.43 RT       |
| 75                    | 2956454.066 | 683631.453 | 134.33 | IRSET           | 767+04.66      | 5.95 LT       |
| 76                    | 2956485.859 | 683912.993 | 130.20 | IRSET           |                |               |
| 77                    | 2956496.909 | 684274.024 | 126.21 | IRSET           |                |               |
| 78                    | 2956493.088 | 684149.188 | 128.48 | IRSET           |                |               |
| 115                   | 2956157.017 | 682671.760 | 146.93 | PKSET           | 757+24.32      | 221.27 RT     |
| 18116                 | 2956182.184 | 679384.347 | 126.53 | ZZ              |                |               |
| 18212                 | 2956182.152 | 679384.358 | 126.52 | ZZ              |                |               |

| BENCHMARK TABLE |            |        |                       |
|-----------------|------------|--------|-----------------------|
| NORTHING        | EASTING    | ELEV   | DESCRIPTION           |
| 2956134.680     | 679483.085 | 123.59 | CHIS. SQ ON WING WALL |
| 2956334.172     | 682739.230 | 156.45 | S.W. COR. CONC. BOUND |

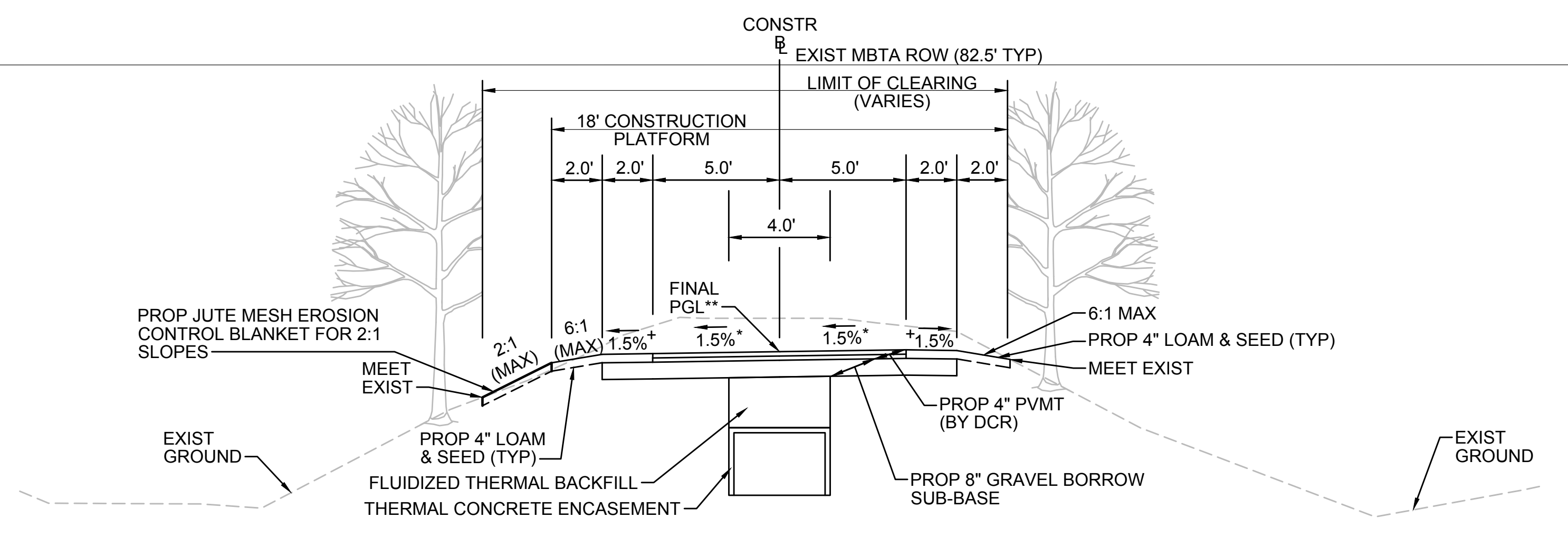


| N.O.  | DESCRIPTION       | BY          | DATE           | APP.R.        |
|---|-------------------|-------------|----------------|---------------|
| <b>EVERSOURCE</b>                                 |                   |             |                |               |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |               |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |               |
| SURVEY TIE-IN PLANS                               |                   |             |                |               |
| PLAN 13 OF 316                                    |                   |             |                |               |
| SCALE: unless noted<br>1"=200'                    | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APP.R.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |               |

CONT. ON SHEET 12

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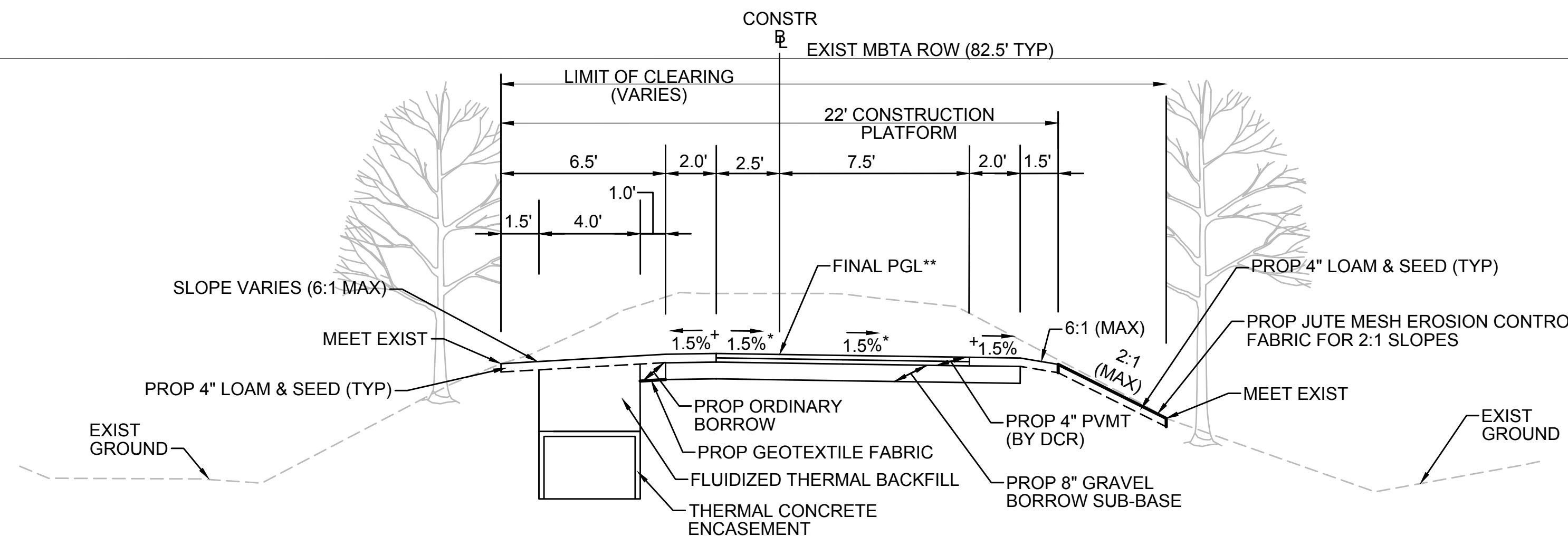


\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

**TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE IN CENTER**

STA 112+50± TO STA 113+00±, STA 131+50± TO STA 131+75±, STA 145+75± TO STA 148+25±, STA 149+50± TO STA 153+00±, STA 397+25± TO STA 400+09±, STA 400+56± TO STA 402+50±, STA 592+00± TO STA 593+25±, STA 712+00± TO STA 715+75±, STA 723+25± TO STA 724+95±, STA 725+76± TO STA 730+00±, STA 732+00± TO STA 733+00±, STA 743+75± TO STA 747+16±, STA 747+50± TO STA 748+25±  
 NTS

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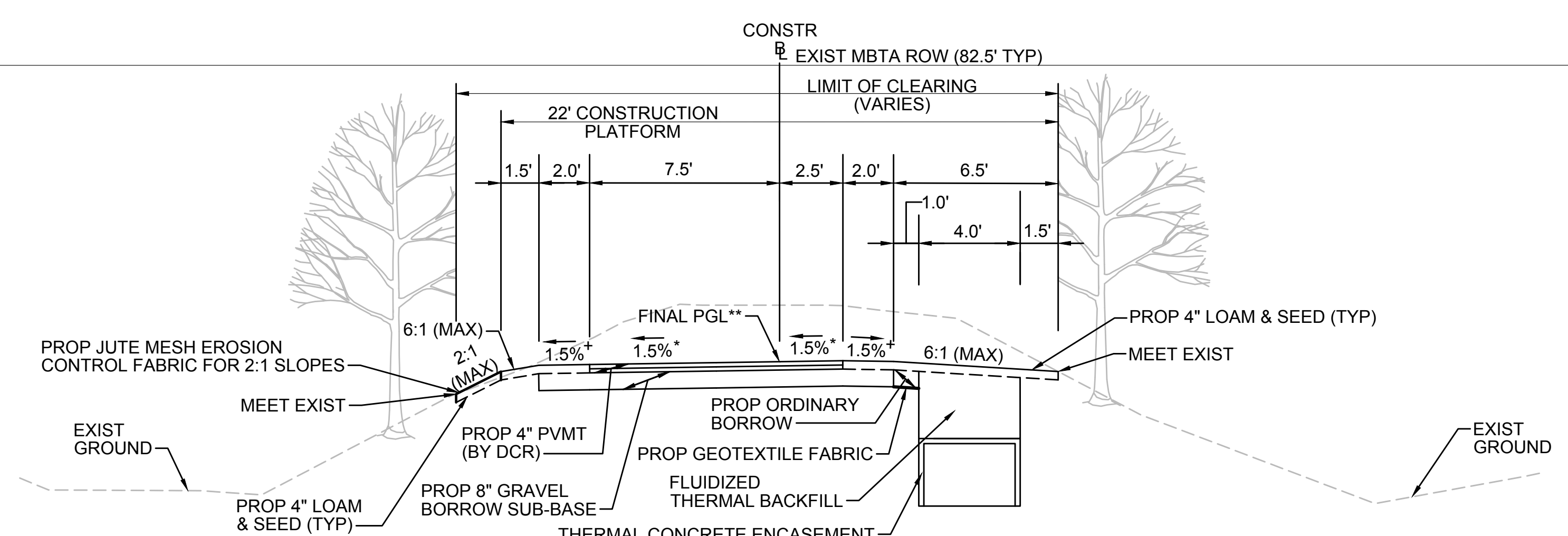


\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

**TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE ON LEFT**

STA 142+25± TO STA 145+75±, STA 168+25± TO STA 171+00±, STA 350+25 TO STA 353+00±, STA 353+50± TO STA 357+00±, STA 368+00± TO STA 371+00±, STA 407+75± TO STA 409+25±, STA 409+75± TO STA 415+25±, STA 516+25± TO STA 519+75±, STA 520+25± TO STA 530+48±, STA 533+87± TO STA 534+00±, STA 534+00± TO STA 544+25±, STA 558+50± TO STA 563+75±, STA 576+75± TO STA 578+25±, STA 718+00± TO STA 721+25±, STA 748+25± TO STA 752+75±  
 NTS

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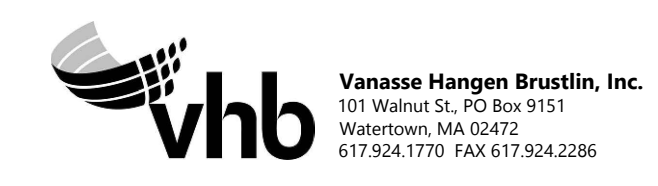
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

**TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE ON RIGHT**

STA 102+25± TO STA 112+50±, STA 128+50± TO STA 131+50±, STA 148+25± TO STA 148+43±, STA 149+20± TO STA 149+50±  
 NTS

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| NO.   |                   | DESCRIPTION | BY           | DATE          | APPR.            |
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| <b>EVERSOURCE</b>                                 |                   |             |              |               |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |               |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |               |                  |
| TYPICAL SECTIONS                                  |                   |             |              |               |                  |
| PLAN 14 OF 316                                    |                   |             |              |               |                  |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES | DRAWING NO. REV. |



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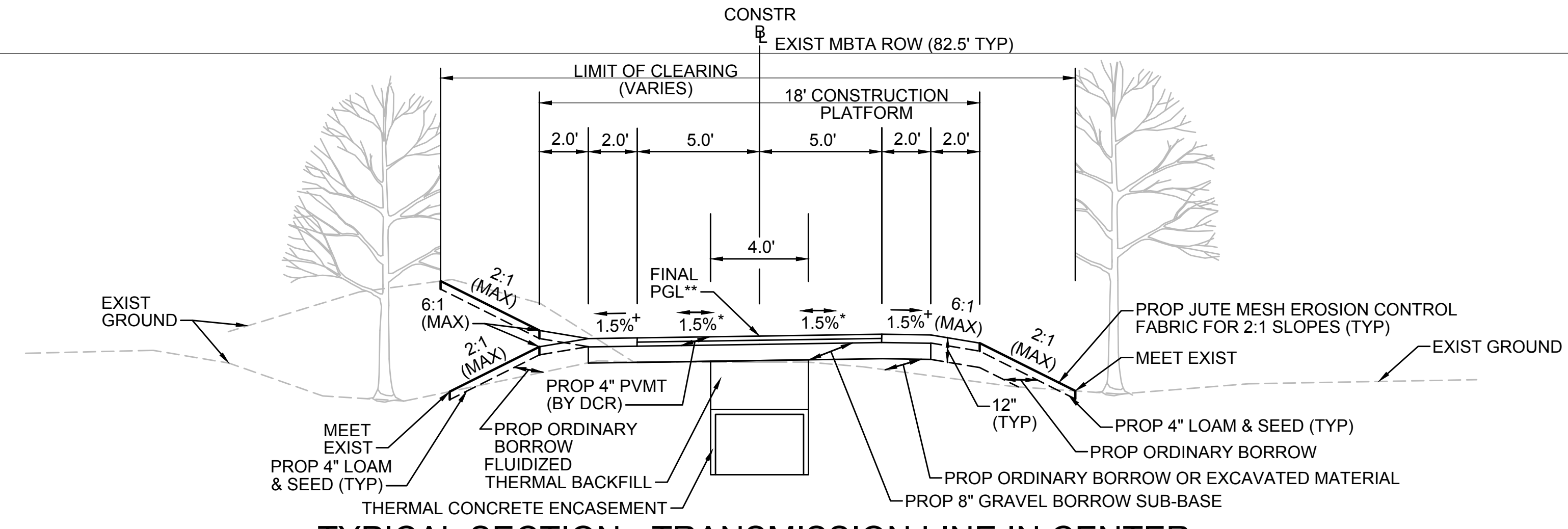
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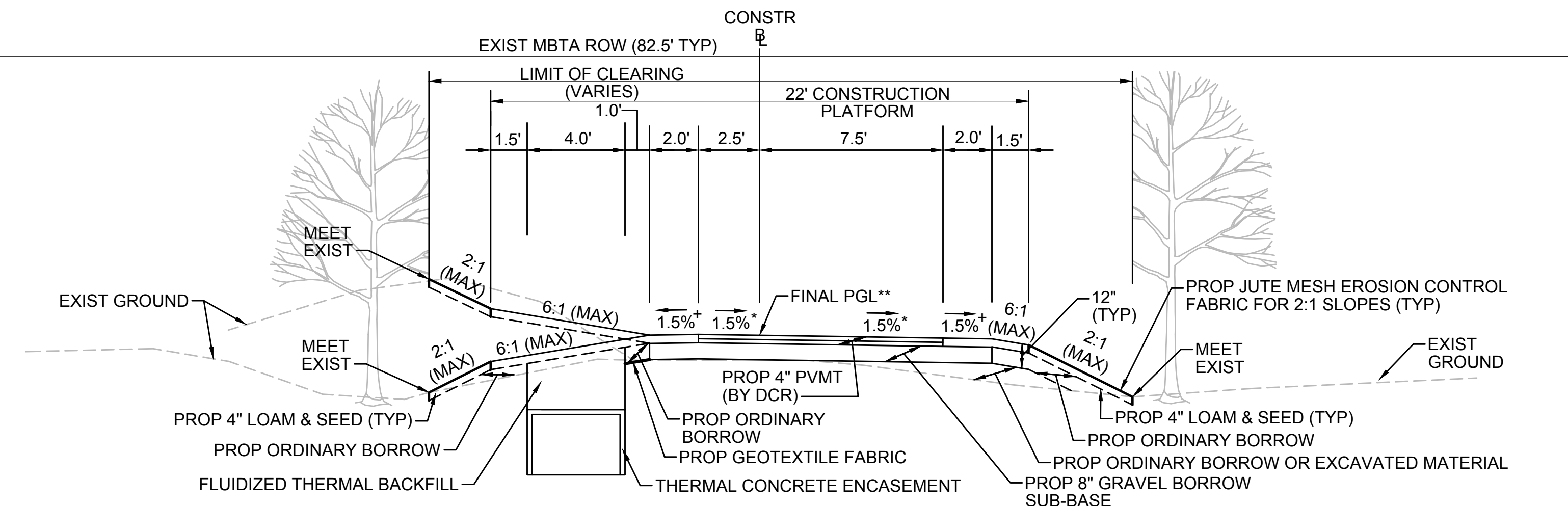
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**TYPICAL SECTION - TRANSMISSION LINE IN CENTER**

STA 131+75± TO STA 132+44±, STA 132+84± TO STA 134+25±, STA 153+00± TO STA 153+50±, STA 204+75± TO STA 207+25±, STA 213+68± TO STA 214+00±, STA 397+00± TO STA 397+25±, STA 402+50± TO STA 403+25±, STA 516+00± TO STA 516+25±, STA 593+25± TO STA 594+00±, STA 700+25± TO STA 711+41±, STA 711+67± TO STA 712+00±, STA 715+75± TO STA 717+75±, STA 742+25± TO STA 743+75±, STA 757+50± TO STA 758+13±, STA 763+20± TO STA 767+21±  
NTS

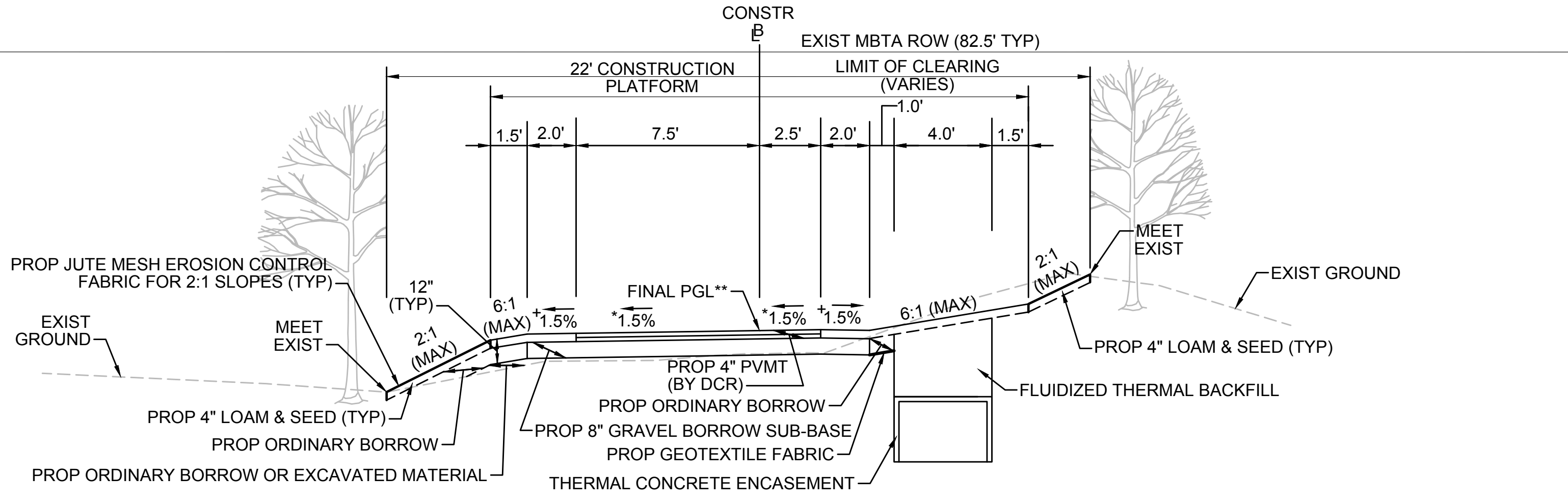
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION



**TYPICAL SECTION - TRANSMISSION LINE ON LEFT**

STA 134+75± TO STA 142+25±, STA 153+50± TO STA 157+75±, STA 158+25± TO STA 168+25±, STA 171+00± TO STA 175+00±, STA 180+25± TO STA 181+86±, STA 182+19± TO STA 182+50±, STA 185+00± TO STA 195+75±, STA 196+25± TO STA 204+75±, STA 207+25± TO STA 213+49±, STA 214+00± TO STA 300+00±, STA 300+50± TO STA 304+00±, STA 316+50± TO STA 335+00±, STA 335+50± TO STA 336+86±, STA 337+08± TO STA 348+75±, STA 357+00± TO STA 360+25±, STA 365+00± TO STA 368+00, STA 371+50± TO STA 375+50±, STA 378+75± TO STA 390+00±, STA 390+50± TO STA 393+00±, STA 403+25± TO STA 404+50±, STA 407+50± TO STA 407+75±, STA 409+25± TO STA 409+75±, STA 415+25± TO STA 416+83±, STA 417+08± TO STA 500+21±, STA 533+00± TO STA 533+48±, STA 544+25± TO STA 552+75±, STA 553+25± TO STA 555+77±, STA 555+96± TO STA 558+50±, STA 563+75± TO STA 565+00±, STA 578+25± TO STA 579+00±, STA 588+25± TO STA 592+00±, STA 594+00± TO STA 601+09±, STA 601+59± TO STA 602+18±, STA 602+47± TO STA 700+25±, STA 722+25± TO STA 723+25±, STA 738+25± TO STA 742+25±, STA 753+00± TO STA 753+48±  
NTS

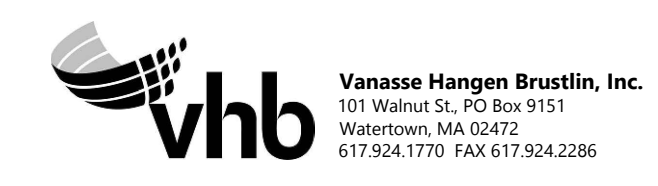
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION



**TYPICAL SECTION - TRANSMISSION LINE ON RIGHT**

STA 100+31.46± TO STA 101+00±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION



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**EVERSOURCE**

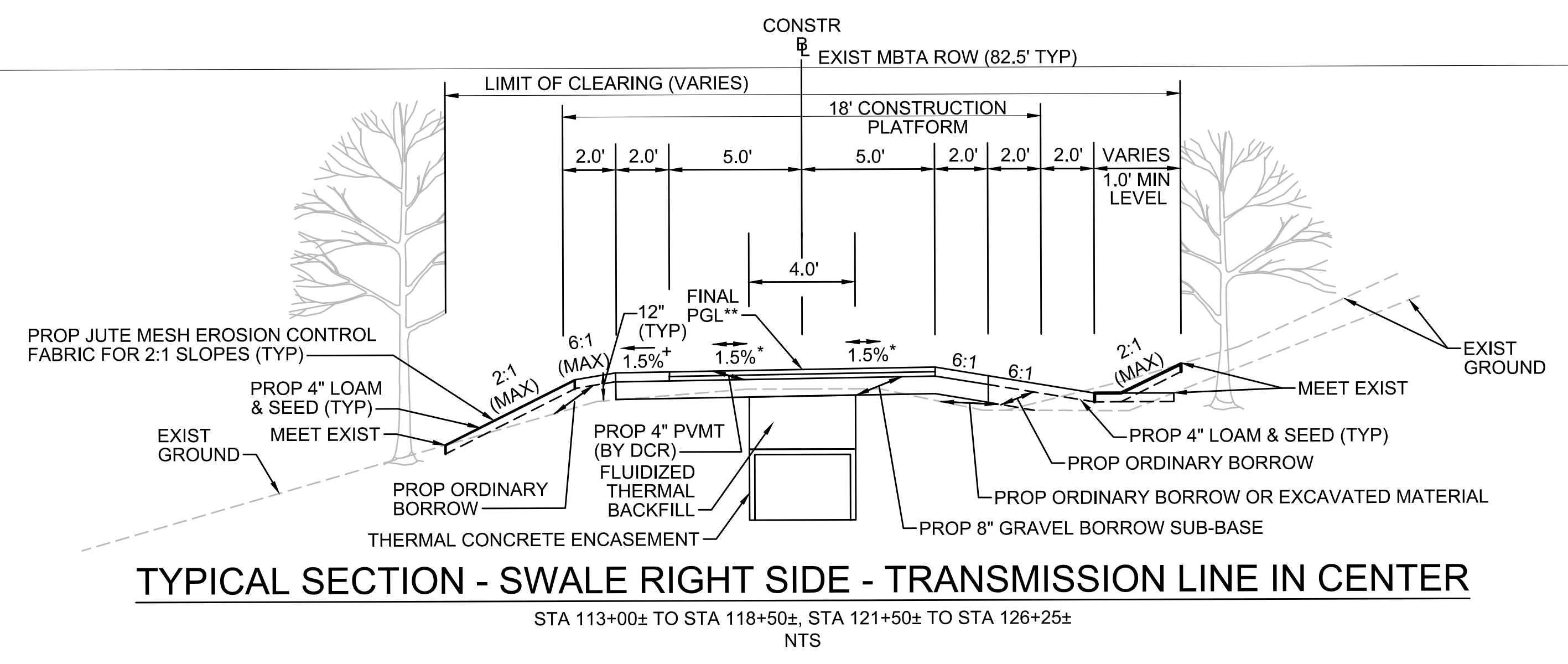
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 15 OF 316

|                            |                   |             |              |               |             |      |
|----------------------------|-------------------|-------------|--------------|---------------|-------------|------|
| SCALE: unless noted<br>NTS | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES | DRAWING NO. | REV. |
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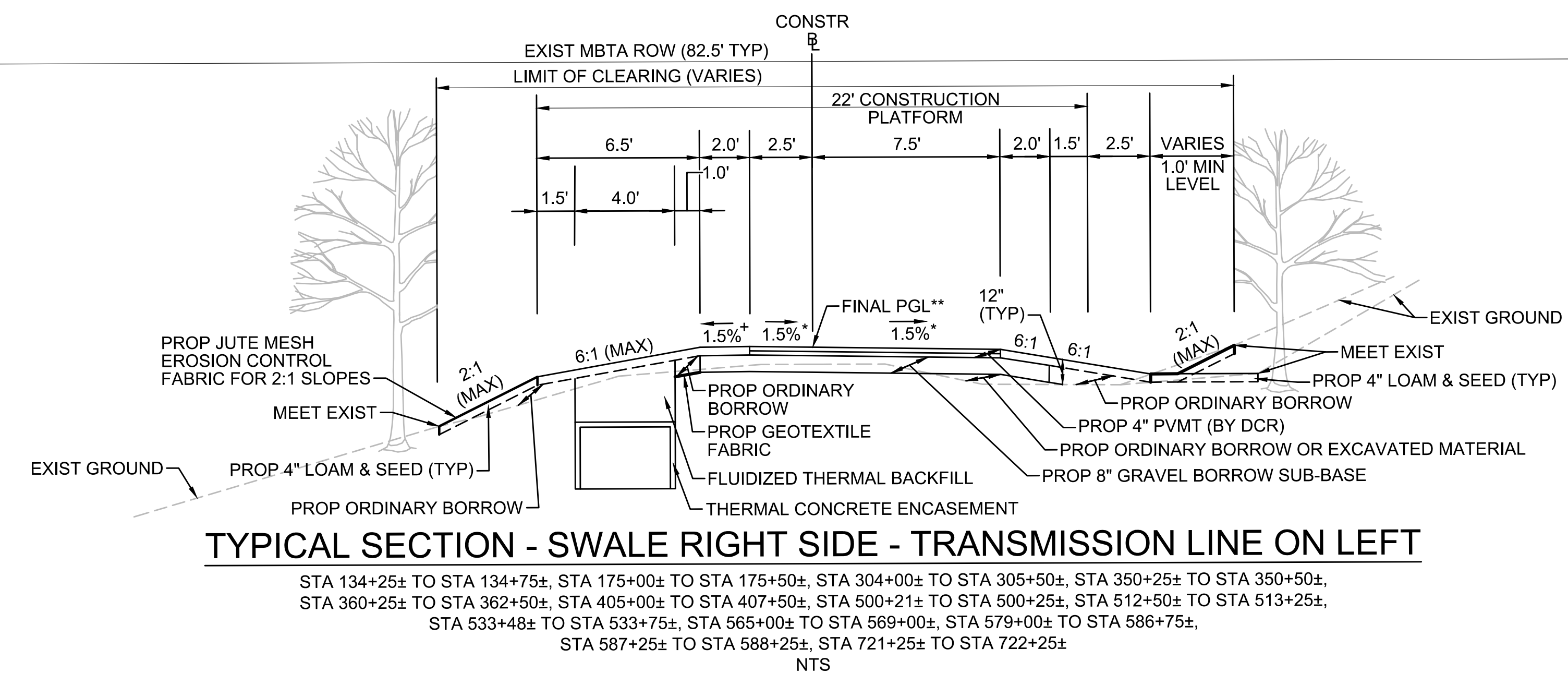
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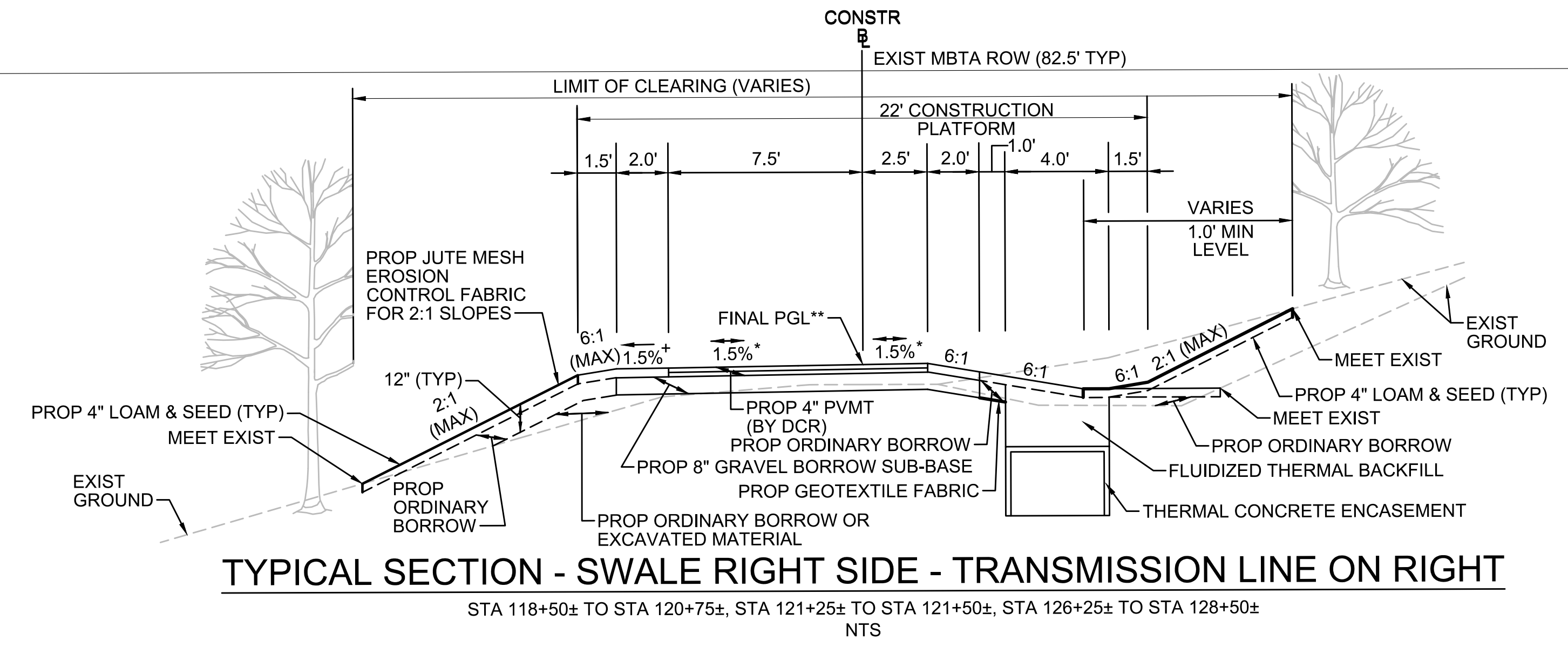
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\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

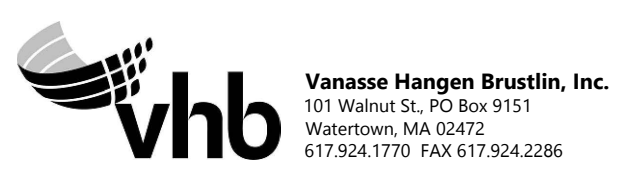


\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION



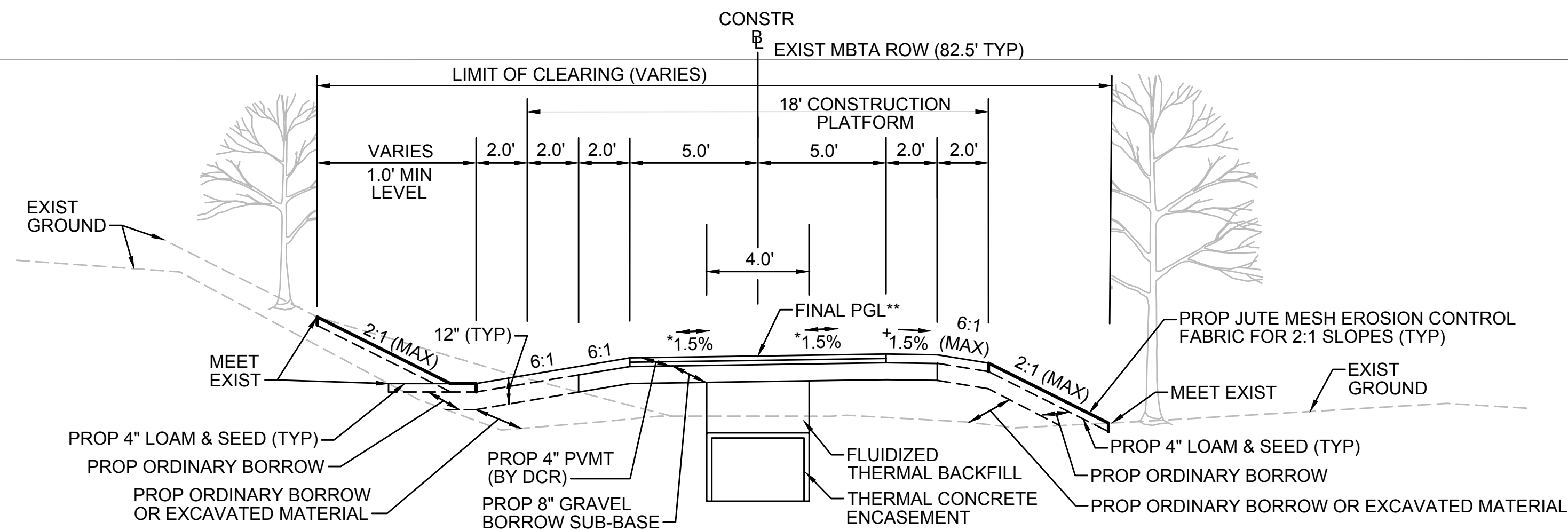
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

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| <b>EVERSOURCE</b>                                 |                   |                 |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |                 |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |                 |                 |
| TYPICAL SECTIONS                                  |                   |                 |                 |
| PLAN 16 OF 316                                    |                   |                 |                 |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS     | CHK'D.<br>SK    |
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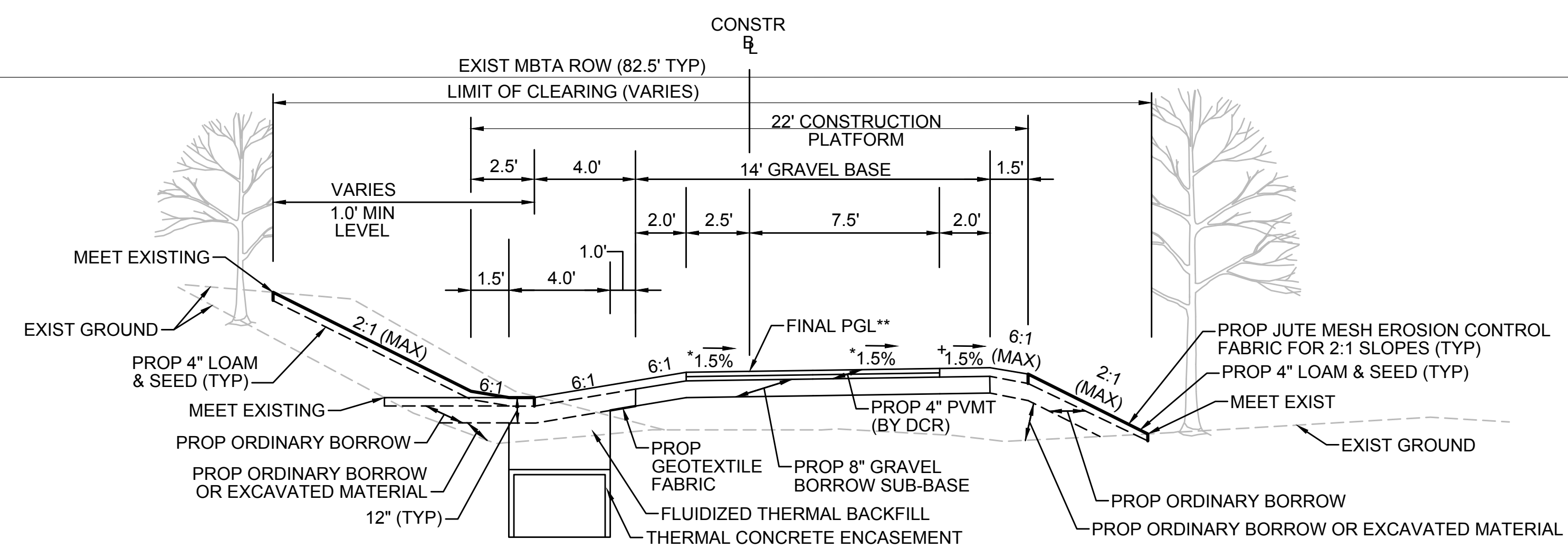
**TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE IN CENTER**

STA 730+00± TO STA 732+00±, STA 733+00± TO STA 735+00±, STA 758+13± TO STA 558+50±, STA 762+75± TO STA 763+20±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION

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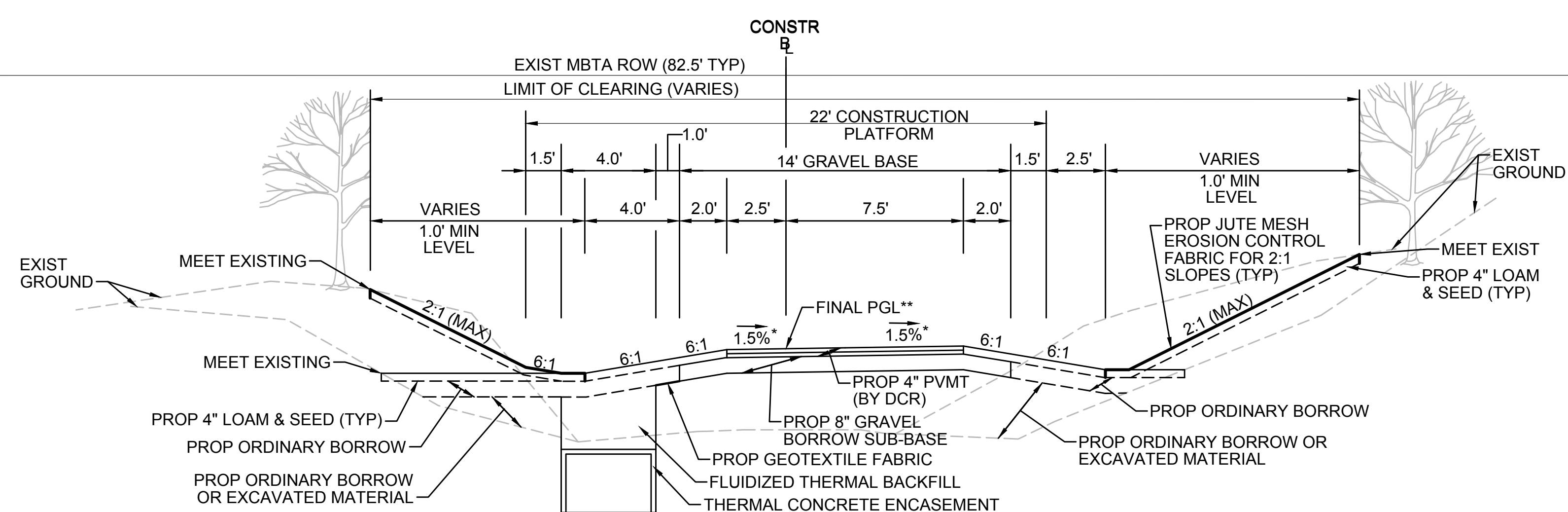
**TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE ON LEFT**

STA 179+75± TO STA 180+25±, STA 184+50± TO STA 185+00±, STA 315+75± TO STA 316+14±, STA 375+50± TO STA 378+75±, STA 395+25± TO STA 397+00±, STA 530+71± TO STA 533+00±,  
STA 576+50± TO STA 576+75±, STA 735+00± TO STA 736+90±, STA 737+13± TO STA 738+25±, STA 758+50± TO STA 762+75±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION

D

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**TYPICAL SECTION - SWALE BOTH SIDES - TRANSMISSION LINE ON LEFT**

STA 175+50± TO STA 176+75±, STA 177+25± TO STA 179+75±, STA 182+50± TO STA 184+50±, STA 305+50± TO STA 315+75±, STA 348+75± TO STA 350+25±, STA 362+50± TO STA 365+00±,  
STA 393+00± TO STA 395+25±, STA 500+25± TO STA 503+75±, STA 504+25± TO STA 512+50±, STA 513+25± TO STA 516+00±, STA 569+00± TO STA 571+75±, STA 572+25± TO STA 576+50±,  
STA 753+48± TO STA 757+50±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION

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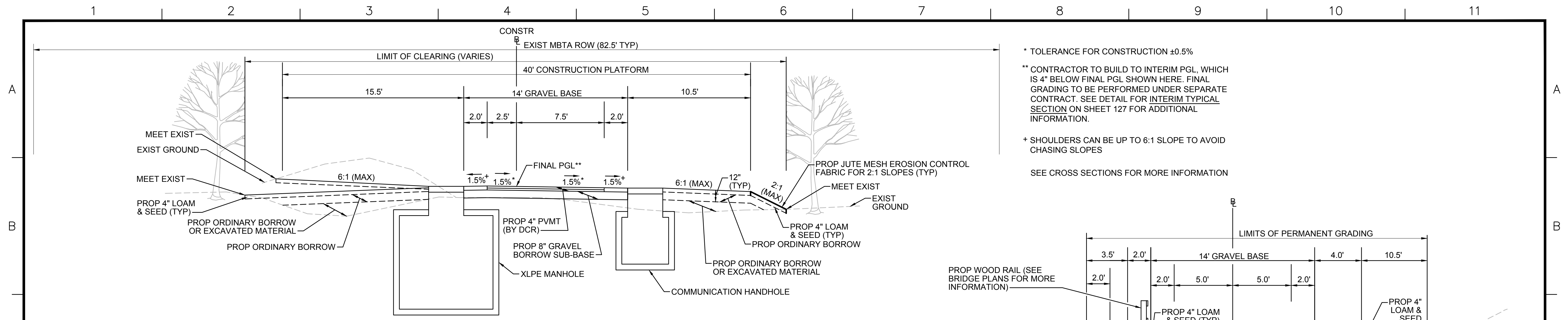


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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 17 OF 316

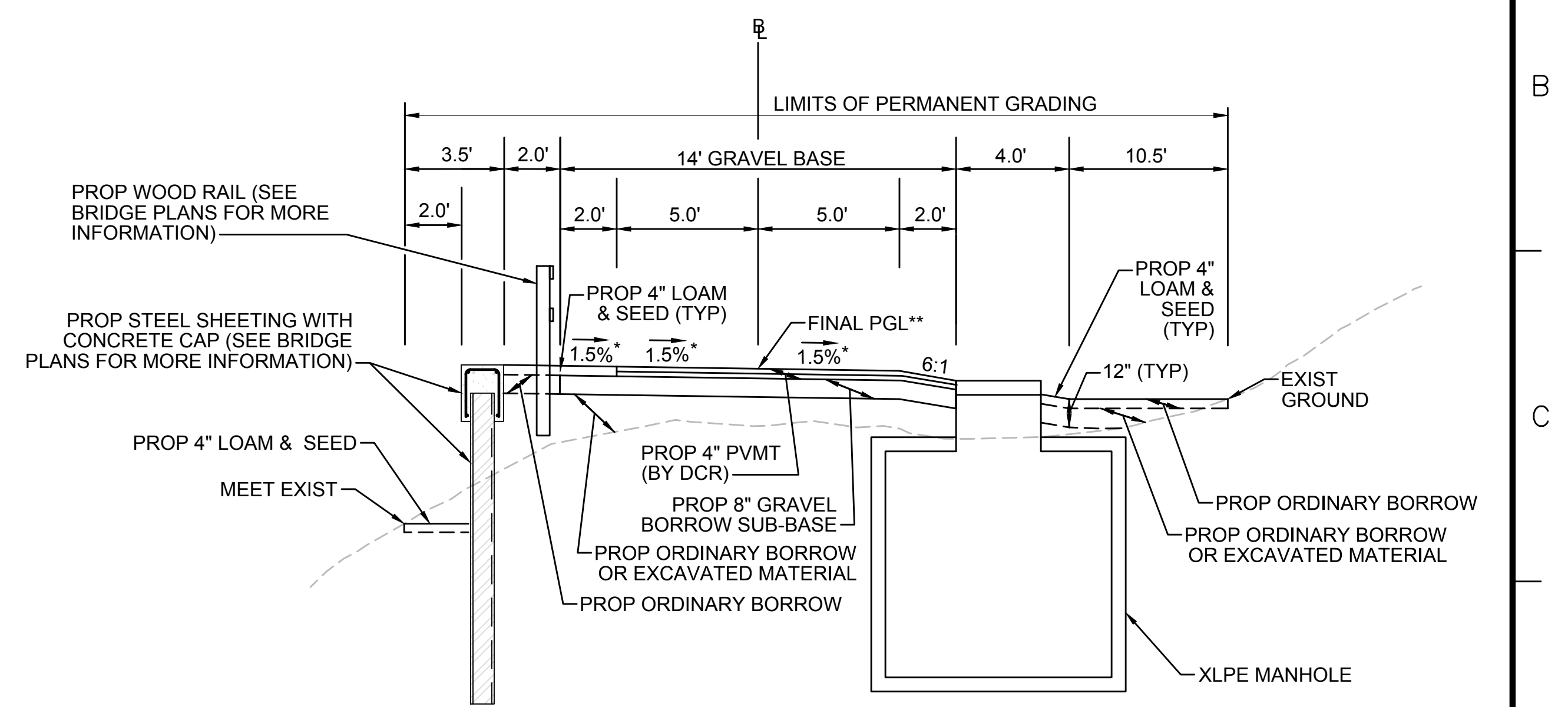
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| SCALE: unless noted<br>NTS | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES | DRAWING NO. | REV. |
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**TYPICAL SECTION - MANHOLE ON LEFT**

STA 157+75± TO STA 158+25±, STA 195+75± TO STA 196+25±, STA 300+00± TO STA 300+50±, STA 335+00± TO STA 335+50±, STA 353+00± TO STA 353+50±, STA 371+00± TO STA 371+50±, STA 390+00± TO STA 390+50±, STA 519+75± TO STA 520+25±, STA 533+75± TO STA 534+25±, STA 552+75± TO STA 553+25±, STA 717+75± TO STA 718+25±, STA 752+75± TO STA 753+25± NTS

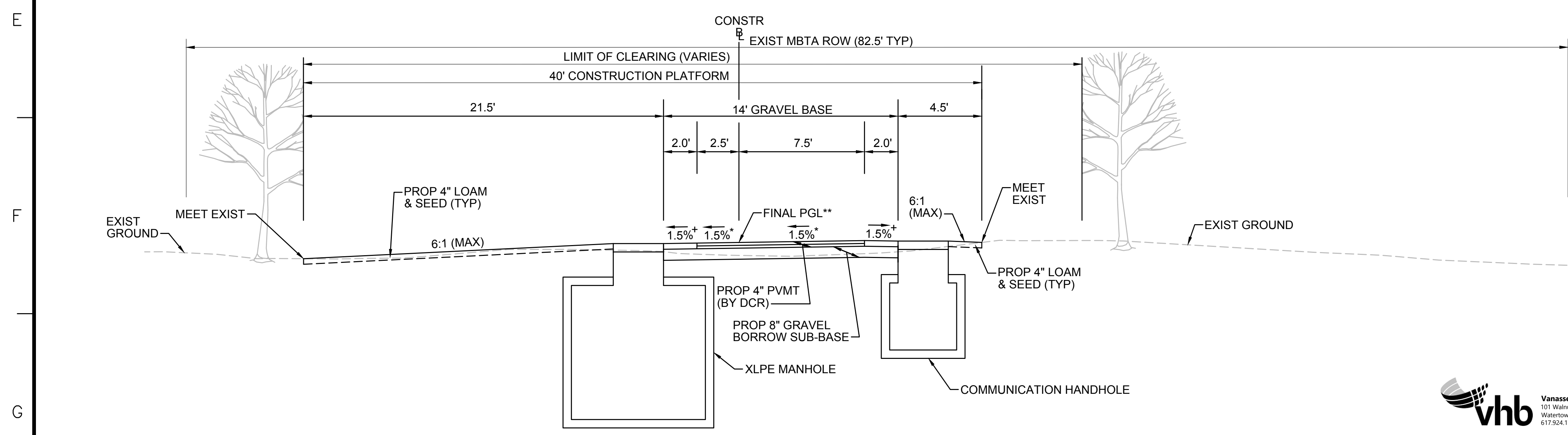
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION



**TYPICAL SECTION - SWALE RIGHT SIDE - MANHOLE ON RIGHT**

STA 120+75± TO STA 121+25± NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION



**TYPICAL SECTION - MANHOLE ON LEFT - OFF-CENTER CONSTRUCTION PLATFORM**

STA 601+09± TO STA 601+59± NTS



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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 TYPICAL SECTIONS  
 PLAN 19 OF 316

|                         |                 |           |           |            |              |       |
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| SCALE: unless noted NTS | DATE: JULY 2020 | DRAWN: MS | CHK'D: SK | APP'R: MES | DRAWING NO.: | REV.: |
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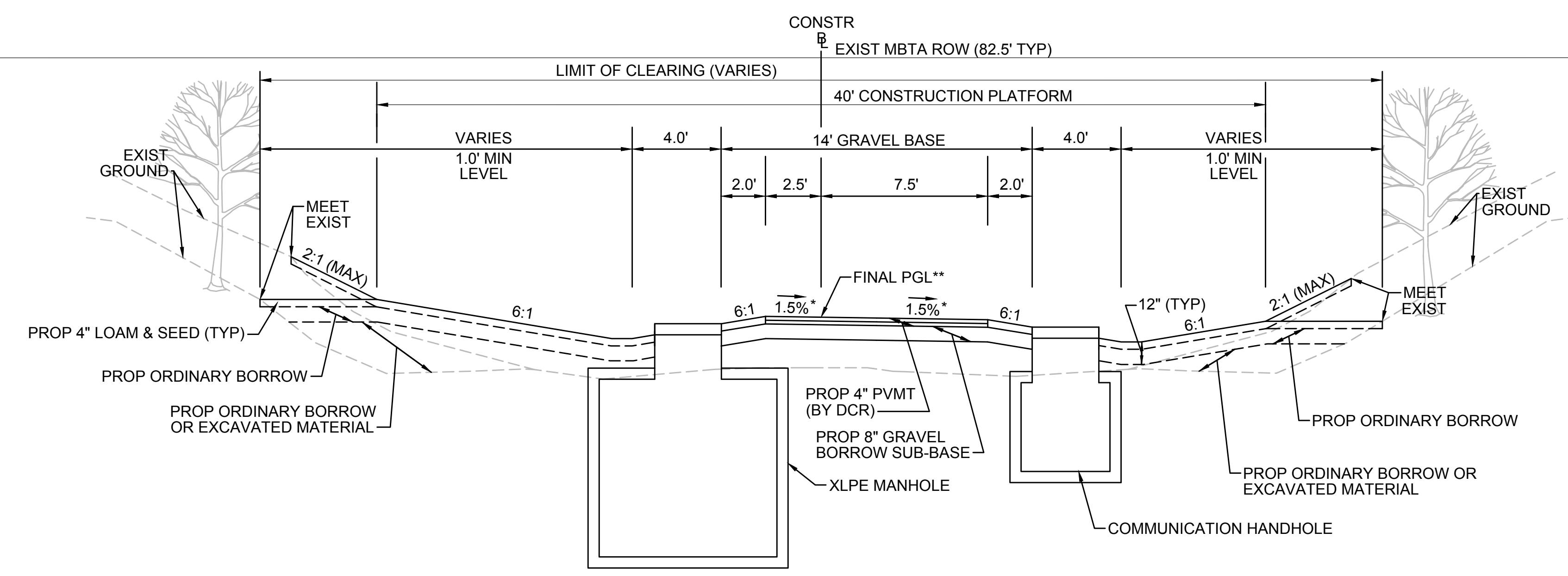
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**TYPICAL SECTION - SWALE BOTH SIDES - MANHOLE ON LEFT**

STA 176+75± TO STA 177+25±, STA 503+75± TO STA 504+25±, STA 571+75± TO STA 572+25±  
NTS



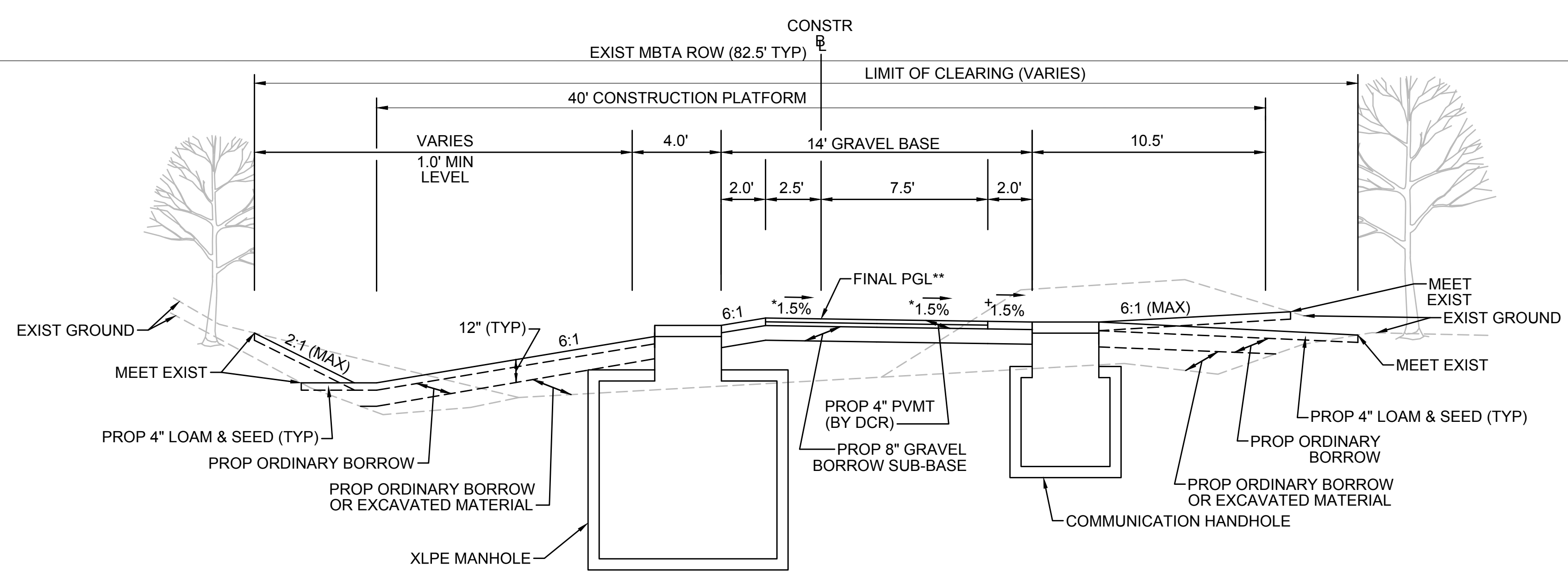
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
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 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

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**TYPICAL SECTION - SWALE LEFT SIDE - MANHOLE ON LEFT**

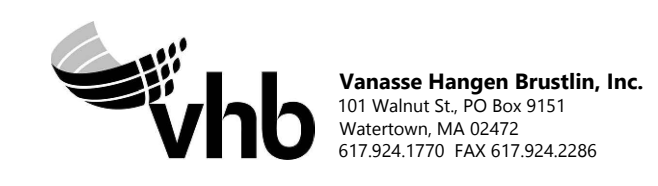
STA 316+00± TO STA 316+50±, STA 736+75± TO STA 737+25±  
NTS



\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

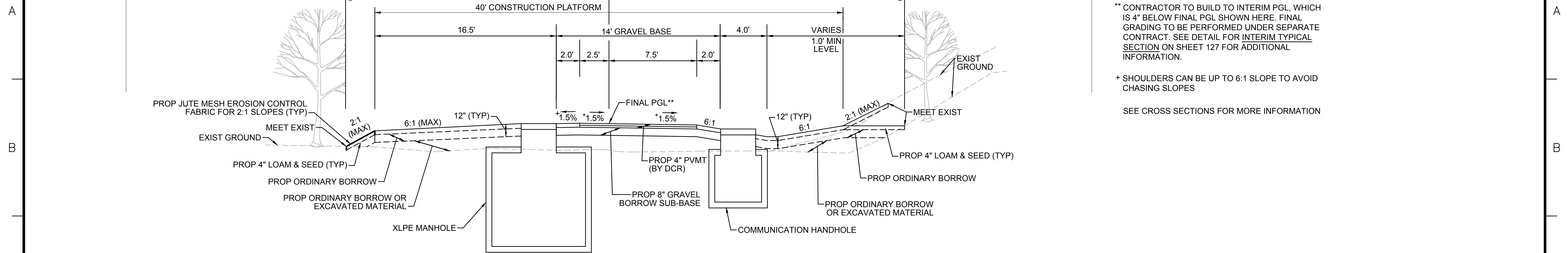
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

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| <b>EVERSOURCE</b>                                 |                   |             |              |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |                 |
| TYPICAL SECTIONS                                  |                   |             |              |                 |
| PLAN 20 OF 316                                    |                   |             |              |                 |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MES |
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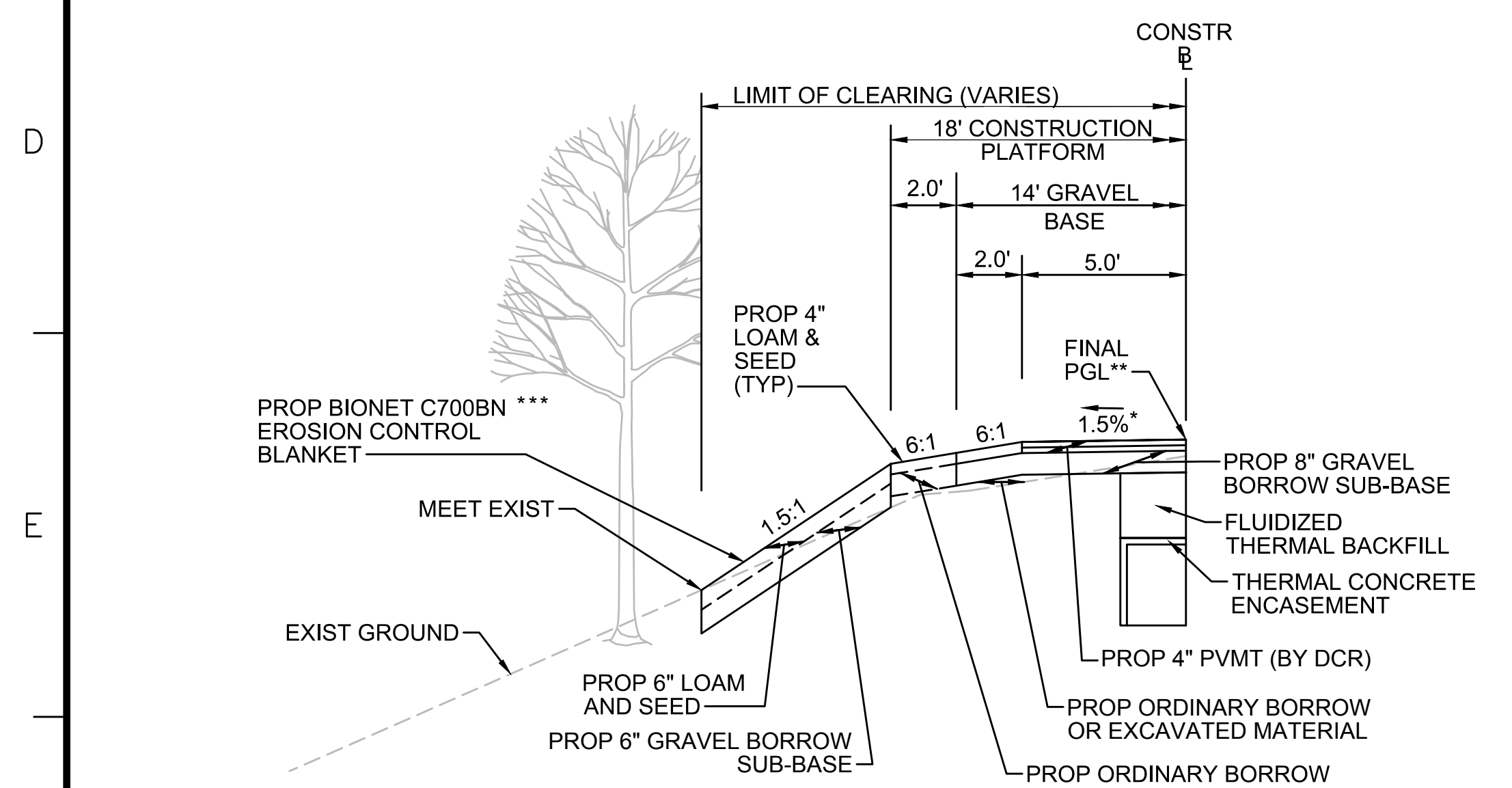
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**TYPICAL SECTION - SWALE RIGHT SIDE - MANHOLE ON LEFT**

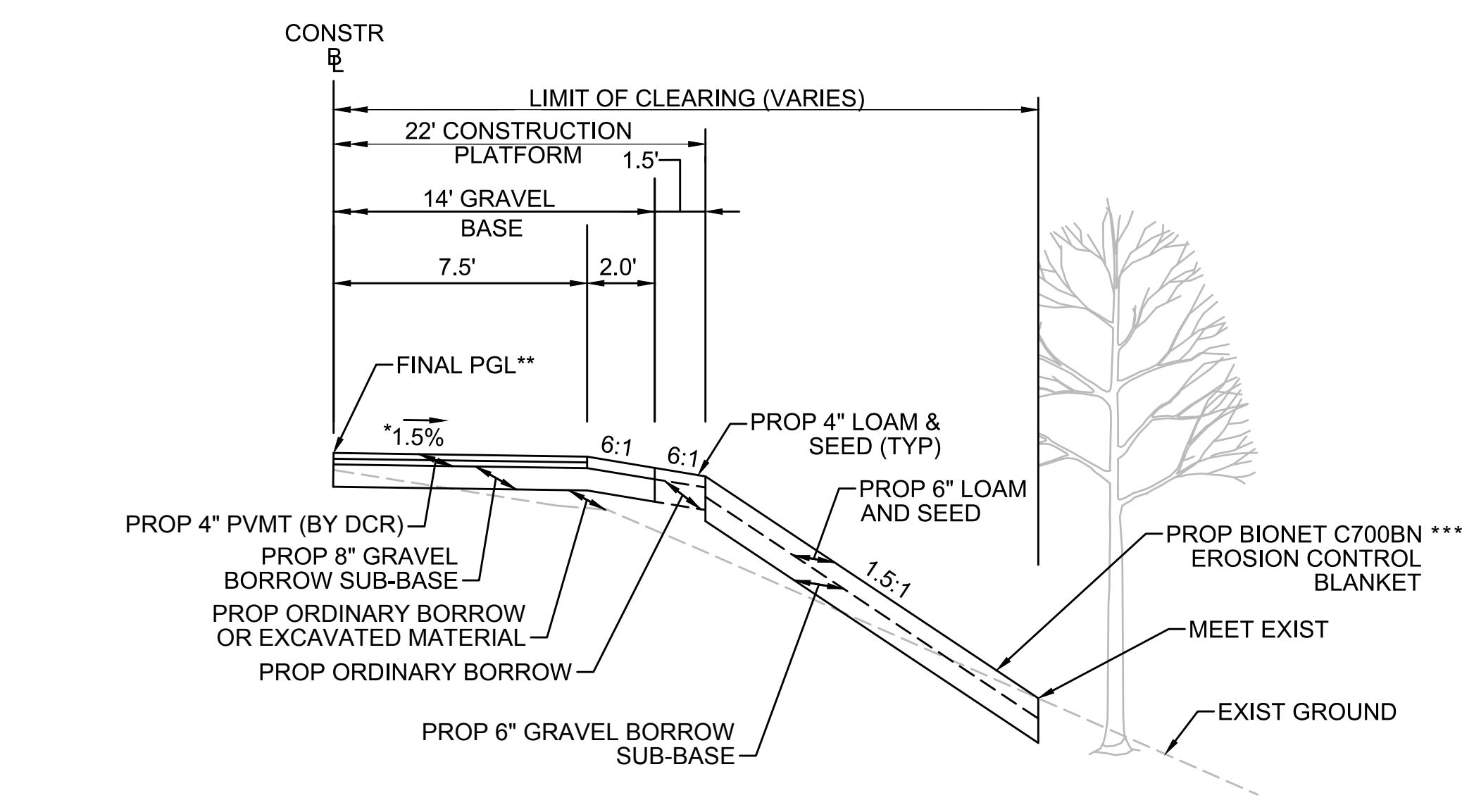
STA 404+50± TO STA 405+00±, STA 586+75± TO STA 587+25±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION



**STEEP SLOPE SECTION LT - TRANSMISSION LINE IN CENTER**

STA 142+37± TO STA 142+75±, STA 747+16± TO STA 747+50±  
NTS



**STEEP SLOPE SECTION RT - TRANSMISSION LINE ON LEFT**

STA 135+50± TO STA 138+25±  
NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
\*\*\* GEOTECHNICAL ENGINEER TO DETERMINE IF EROSION CONTROL MEASURES ARE ADEQUATE FOR SLOPE STABILIZATION PRIOR TO CONSTRUCTION.  
SEE CROSS SECTIONS FOR MORE INFORMATION

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
\*\*\* GEOTECHNICAL ENGINEER TO DETERMINE IF EROSION CONTROL MEASURES ARE ADEQUATE FOR SLOPE STABILIZATION PRIOR TO CONSTRUCTION.  
SEE CROSS SECTIONS FOR MORE INFORMATION



| REVISION |             |    |      |
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**EVERSOURCE**

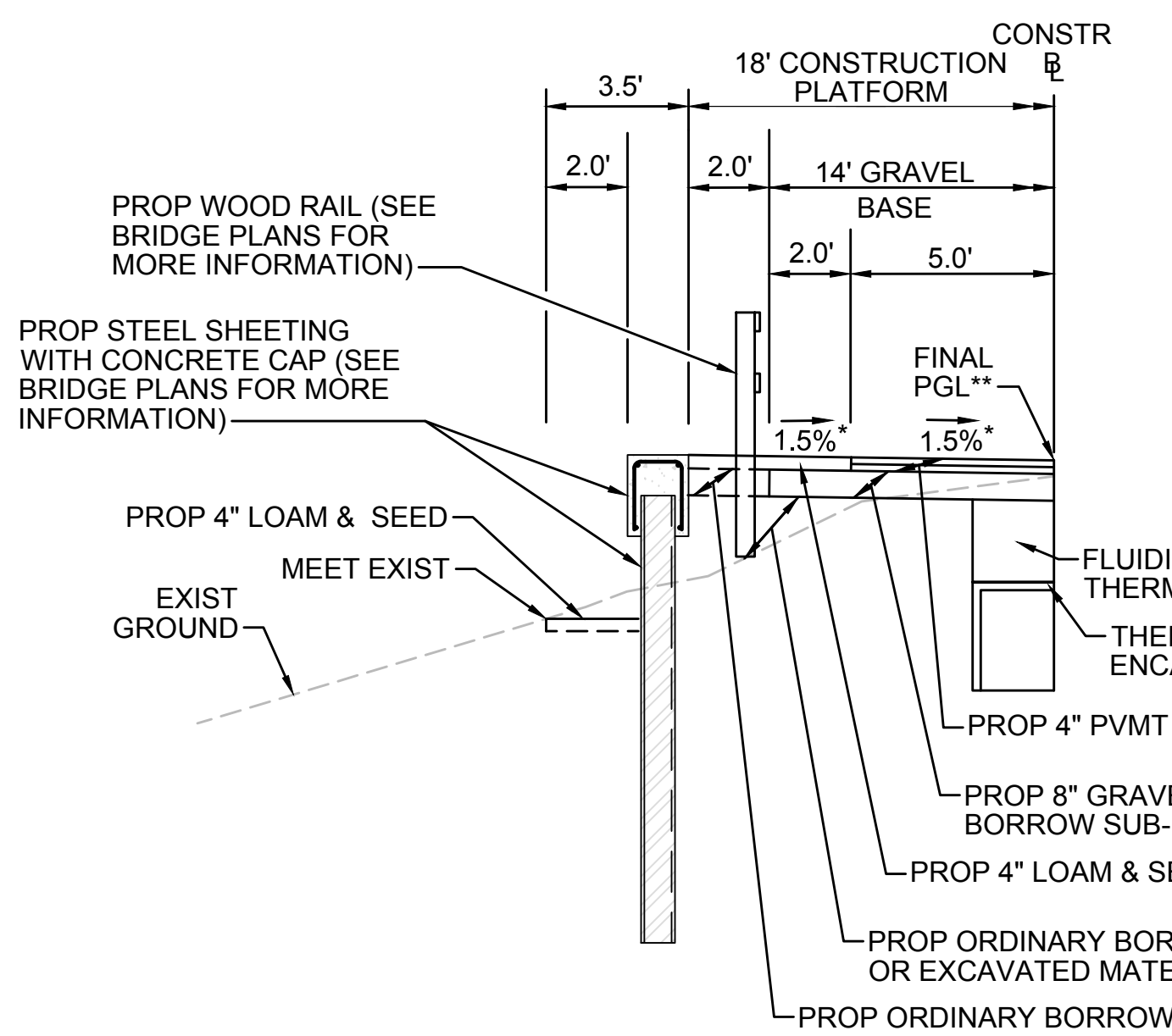
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 21 OF 316

|                            |                   |             |              |               |             |      |
|----------------------------|-------------------|-------------|--------------|---------------|-------------|------|
| SCALE: unless noted<br>NTS | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES | DRAWING NO. | REV. |
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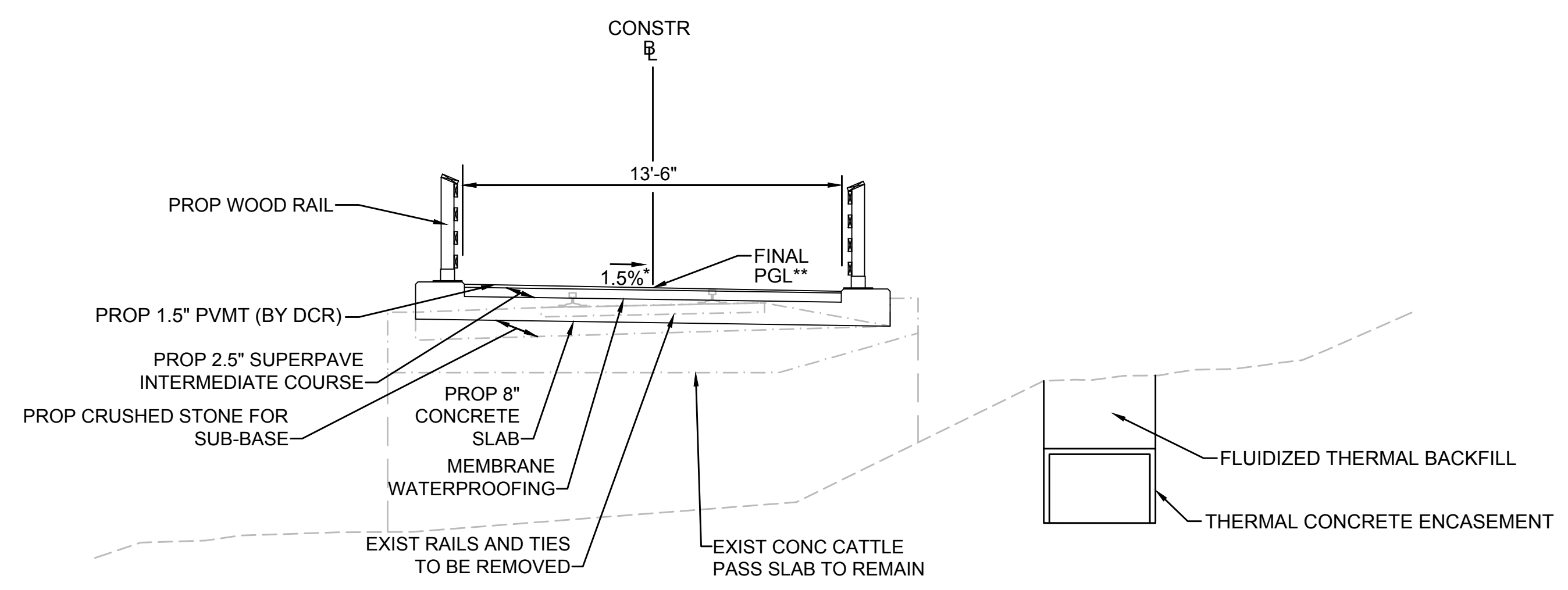
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**SHEETING SECTION LT**

STA 119+00± TO STA 119+38±, STA 119+52± TO STA 125+00±, STA 148+25± TO STA 148+49±, STA 149+13± TO STA 149+75±, STA 300+50± TO STA 400+07±, STA 400+58± TO STA 401+25±, STA 724+73± TO STA 725+03±, STA 725+59± TO STA 725+96± NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 SEE CROSS SECTIONS FOR MORE INFORMATION

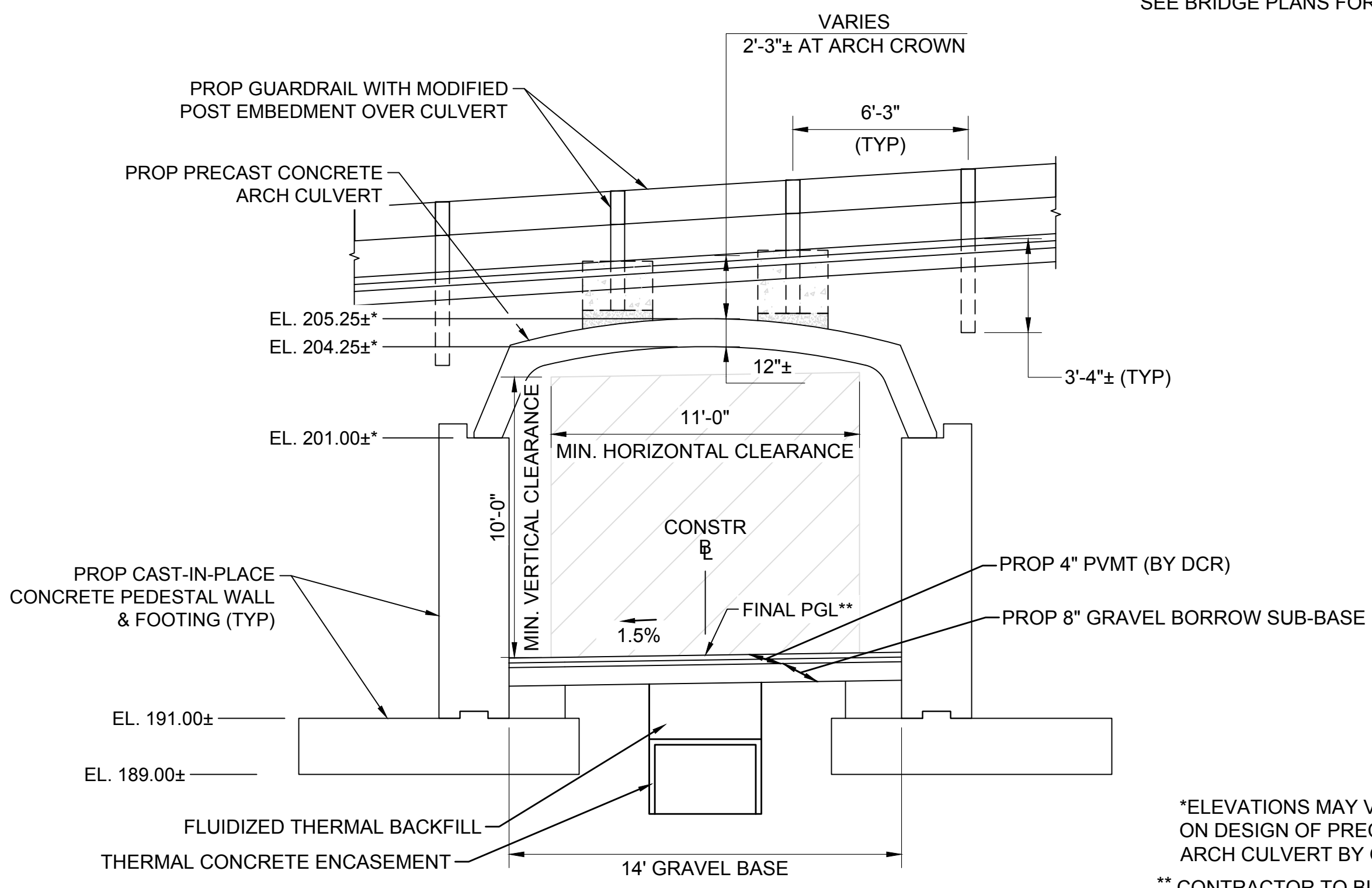


**CATTLE CROSSING**

STA 119+38± TO STA 119+52± NTS

\*TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 1.5" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL ON SHEET 128 FOR ADDITIONAL INFORMATION.

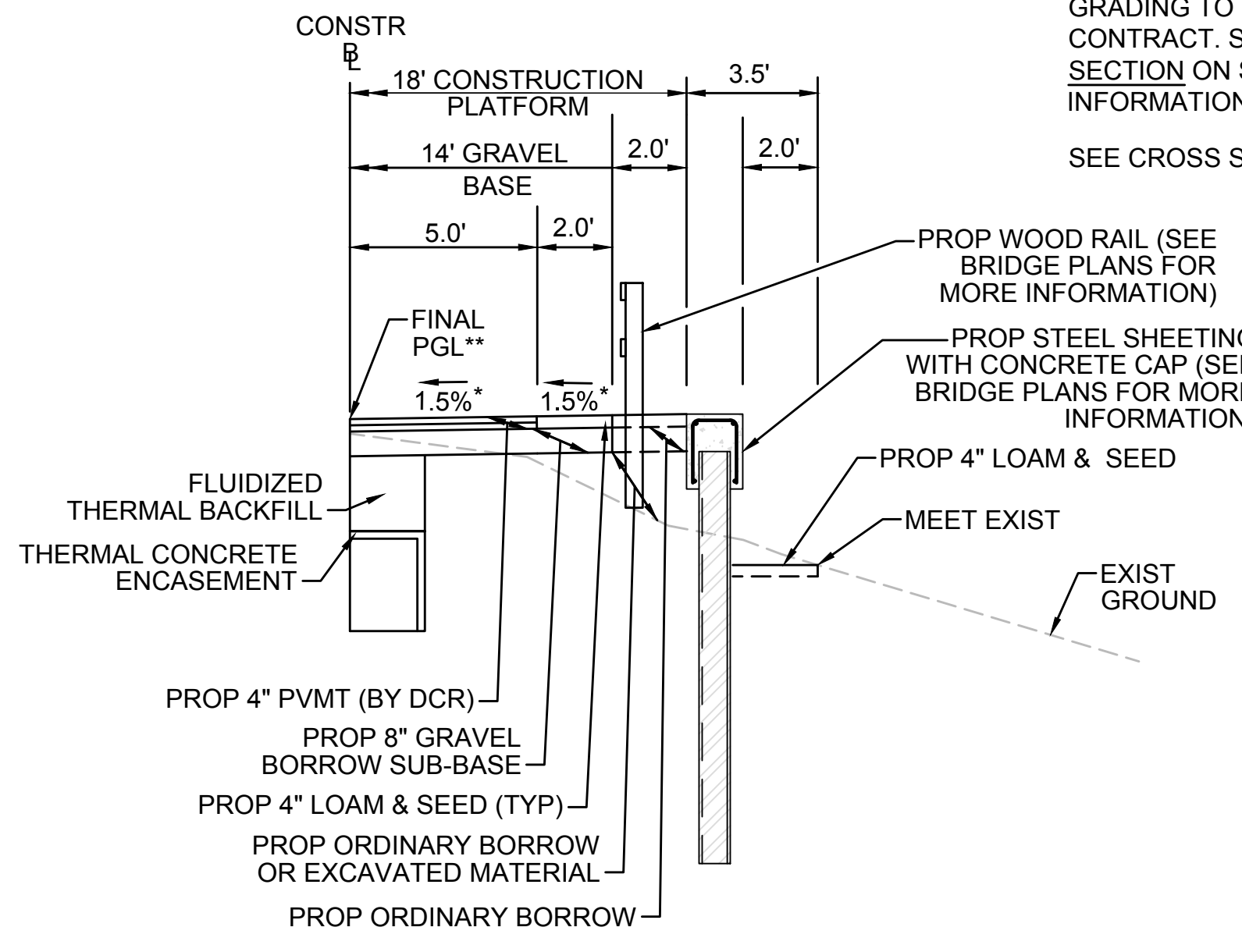
SEE BRIDGE PLANS FOR MORE INFORMATION



**CHESTNUT STREET CULVERT**

STA 132+44± TO STA 132+84± NTS

\*ELEVATIONS MAY VARY DEPENDING ON DESIGN OF PRECAST CONCRETE ARCH CULVERT BY OTHERS.  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 SEE BRIDGE PLANS FOR MORE INFORMATION



**SHEETING SECTION RT**

STA 148+25± TO STA 148+49±, STA 149+13± TO STA 149+75±, STA 399+91± TO STA 400+07±, STA 400+58± TO STA 401+25±, STA 724+73± TO STA 725+03±, STA 725+59± TO STA 725+96±, STA 731+00± TO STA 734+25± NTS

\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.  
 SEE CROSS SECTIONS FOR MORE INFORMATION

\*TOLERANCE FOR CONSTRUCTION ±0.5%

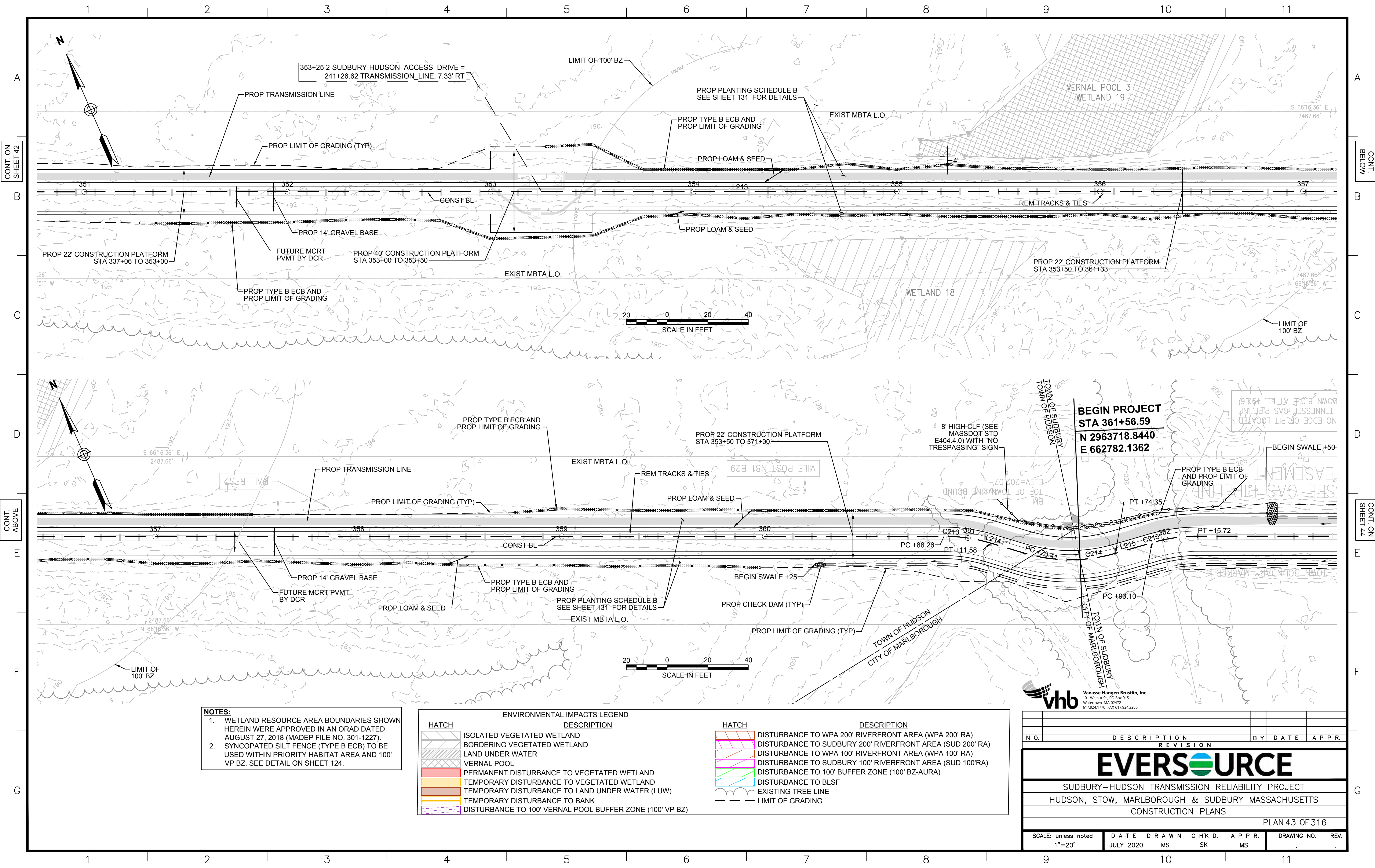


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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 TYPICAL SECTIONS  
 PLAN 22 OF 316

|                            |                   |             |              |               |             |      |
|----------------------------|-------------------|-------------|--------------|---------------|-------------|------|
| SCALE: unless noted<br>NTS | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES | DRAWING NO. | REV. |
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CONT. ON SHEET 42

CONT. BELOW

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CONT. ON SHEET 44

**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |

**vhb**  
 Vanasse Hangen Brustlin, Inc.  
 101 Walnut St., PO Box 9151  
 Watertown, MA 02472  
 617.924.1770 FAX 617.924.2286

| REVISION |             |    |      |
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| N.O.     | DESCRIPTION | BY | DATE |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 43 OF 316

|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
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CONT. ON SHEET 43

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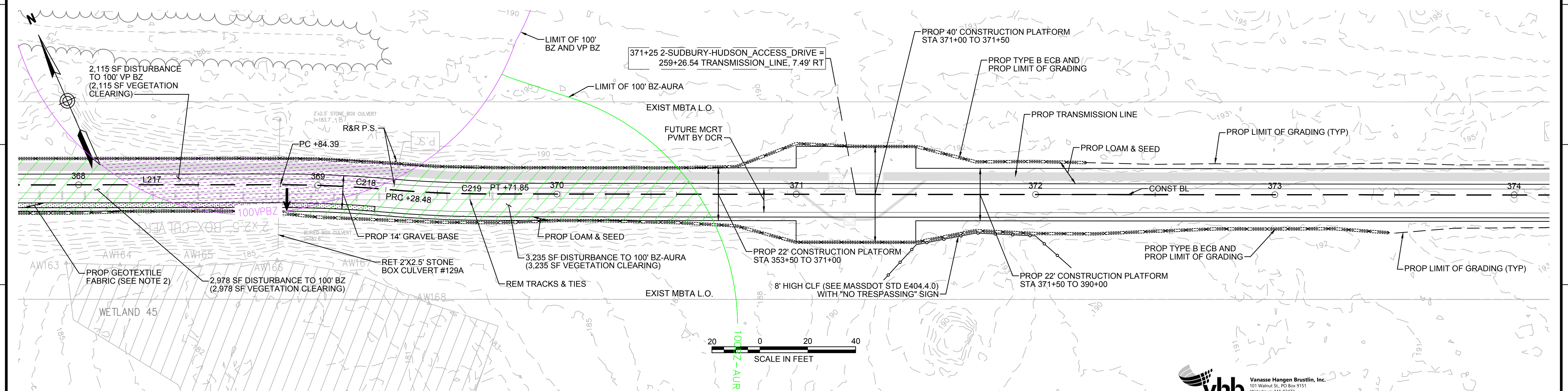
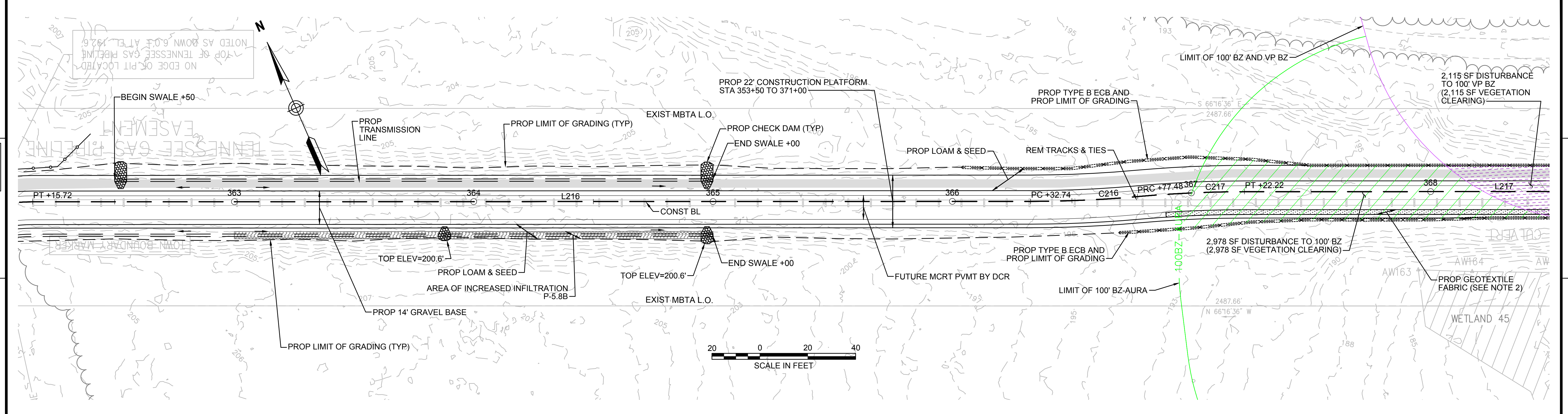
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227). CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                               |                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | BORDERING VEGETATED WETLAND                              |                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | LAND UNDER WATER   |                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | VERNAL POOL  |                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |                              | DISTURBANCE TO BLSF                                       |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |                              | EXISTING TREE LINE  |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |                              | LIMIT OF GRADING  |
|                              | TEMPORARY DISTURBANCE TO BANK                            |                              |   |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 44 OF 316

|                               |                   |             |              |                |             |      |
|-------------------------------|-------------------|-------------|--------------|----------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO. | REV. |
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1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 44

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CONT. ON SHEET 46

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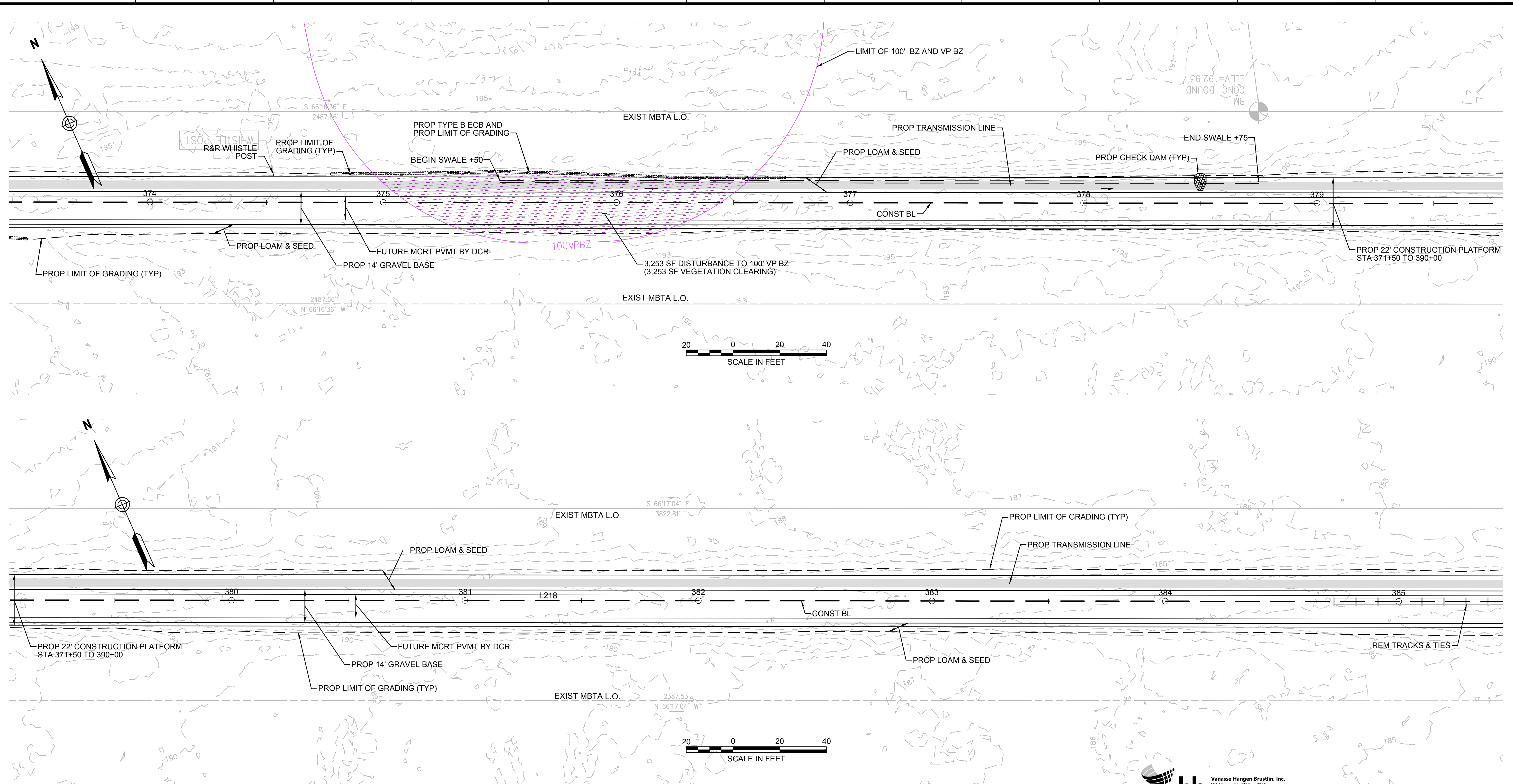
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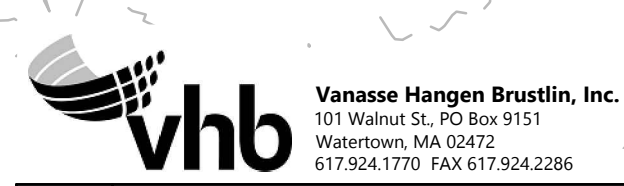
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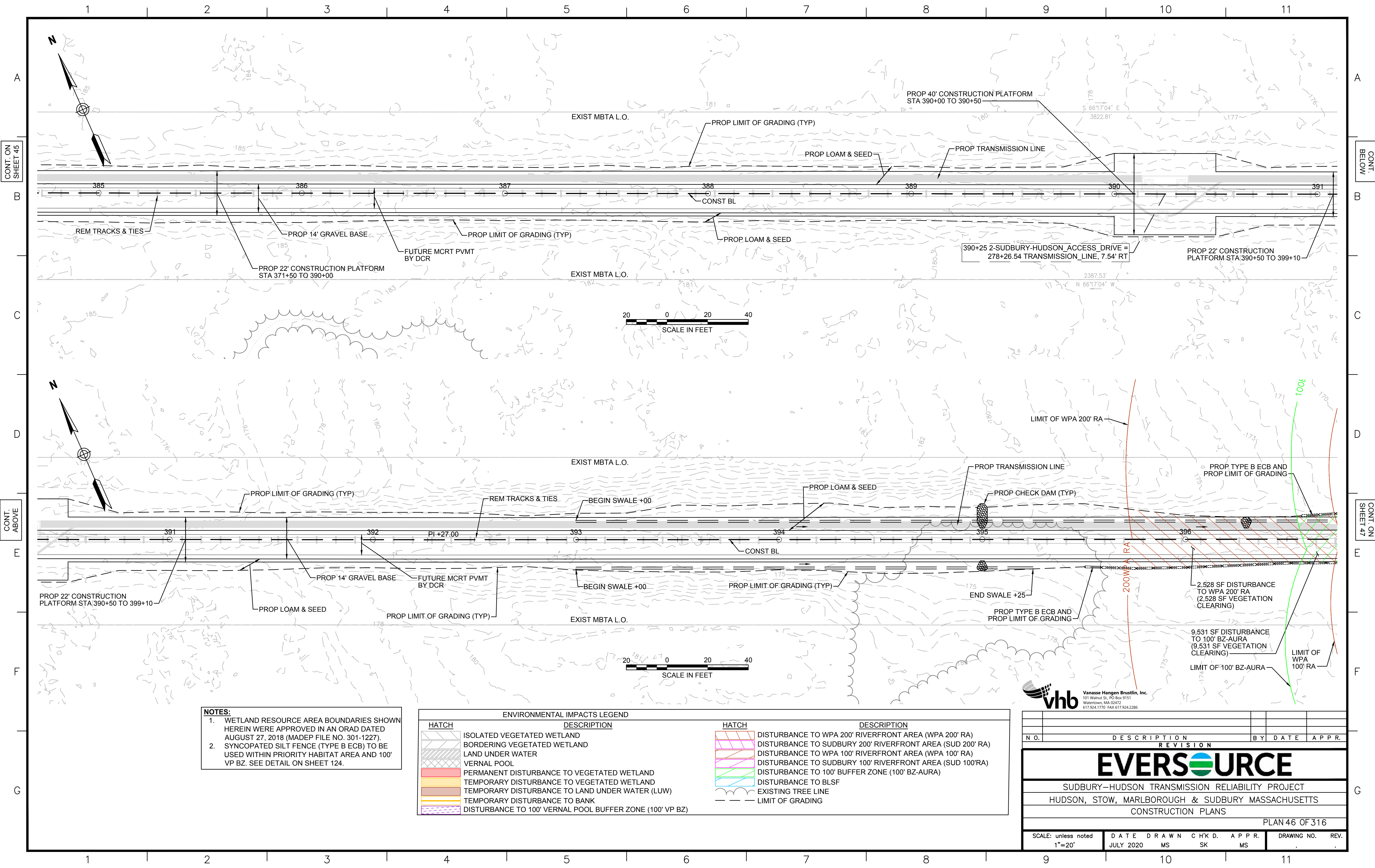
**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| NO.   | DESCRIPTION       | REVISION    | BY             | DATE        | APPR.                  |
|---|-------------------|-------------|----------------|-------------|------------------------|
| <b>EVERSOURCE</b>                                 |                   |             |                |             |                        |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |             |                        |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |             |                        |
| CONSTRUCTION PLANS                                |                   |             |                |             |                        |
| PLAN 45 OF 316                                    |                   |             |                |             |                        |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | C H'K D.<br>SK | APPR.<br>MS | DRAWING NO. REV.<br>11 |

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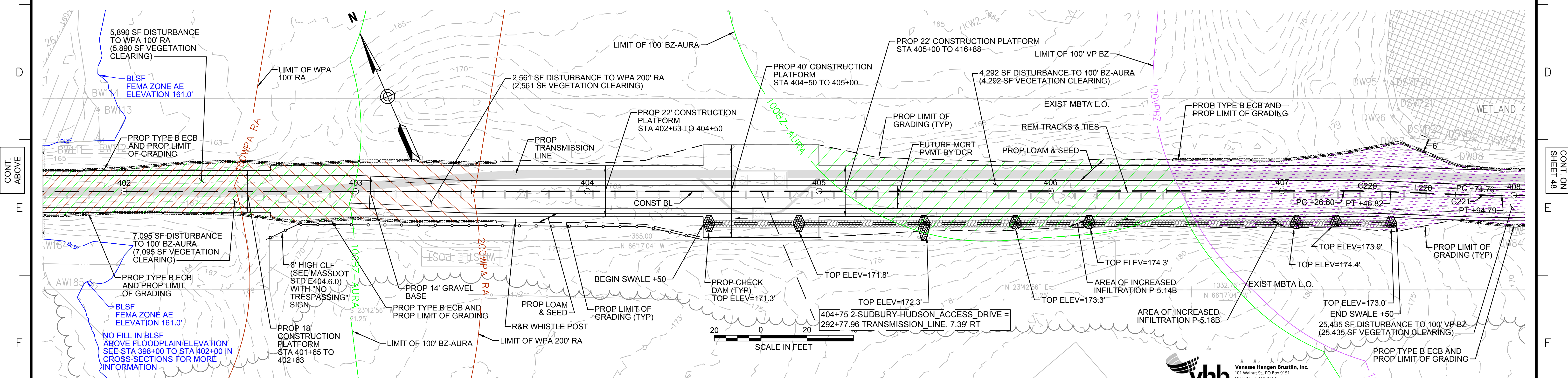
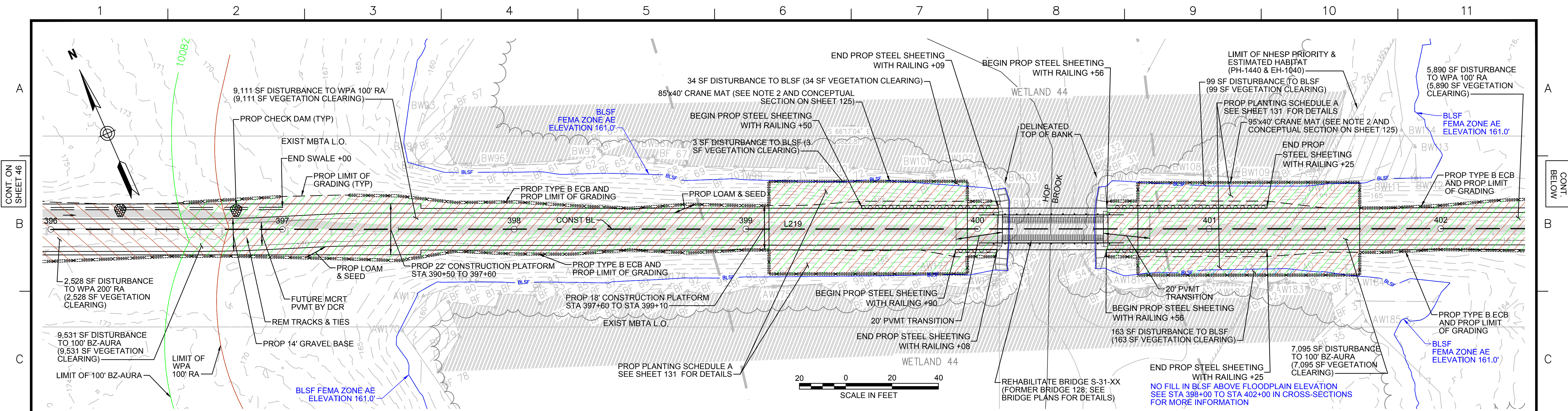


**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
| [Hatch: Diagonal lines /]    | ISOLATED VEGETATED WETLAND                                |
| [Hatch: Diagonal lines \]    | BORDERING VEGETATED WETLAND                               |
| [Hatch: Dotted]              | LAND UNDER WATER  |
| [Hatch: Horizontal lines]    | VERNAL POOL   |
| [Hatch: Red solid]           | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
| [Hatch: Yellow solid]        | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
| [Hatch: Blue solid]          | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
| [Hatch: Green solid]         | TEMPORARY DISTURBANCE TO BANK                             |
| [Hatch: Purple solid]        | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
| [Hatch: Orange diagonal /]   | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch: Pink diagonal /]     | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch: Purple diagonal /]   | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch: Green diagonal /]    | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch: Blue diagonal /]     | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch: Yellow diagonal /]   | DISTURBANCE TO BLSF                                       |
| [Hatch: Dotted]              | EXISTING TREE LINE  |
| [Hatch: Dashed line]         | LIMIT OF GRADING  |



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.       |
|---|-------------------|-------------|--------------|-------------|
| <b>REVISION</b>                                   |                   |             |              |             |
| <b>EVERSOURCE</b>                                 |                   |             |              |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |             |
| CONSTRUCTION PLANS                                |                   |             |              |             |
| PLAN 46 OF 316                                    |                   |             |              |             |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       |                   |             |              | REV.        |



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. MAXIMUM CRANE PAD DIMENSIONS OF 40'X40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT LOCATION OF THE STEEL SHEETING AND BRIDGE.
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
| [Hatched Pattern]            | ISOLATED VEGETATED WETLAND                                |
| [Hatched Pattern]            | BORDERING VEGETATED WETLAND                               |
| [Hatched Pattern]            | LAND UNDER WATER  |
| [Hatched Pattern]            | VERNAL POOL   |
| [Hatched Pattern]            | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
| [Hatched Pattern]            | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
| [Hatched Pattern]            | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
| [Hatched Pattern]            | TEMPORARY DISTURBANCE TO BANK                             |
| [Hatched Pattern]            | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
| HATCH                        | DESCRIPTION   |
| [Hatched Pattern]            | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatched Pattern]            | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Pattern]            | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatched Pattern]            | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Pattern]            | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatched Pattern]            | DISTURBANCE TO BLSF                                       |
| [Hatched Pattern]            | EXISTING TREE LINE  |
| [Hatched Pattern]            | LIMIT OF GRADING  |

**vhb** Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.924.1770 FAX: 617.924.2286

| N.O. | DESCRIPTION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

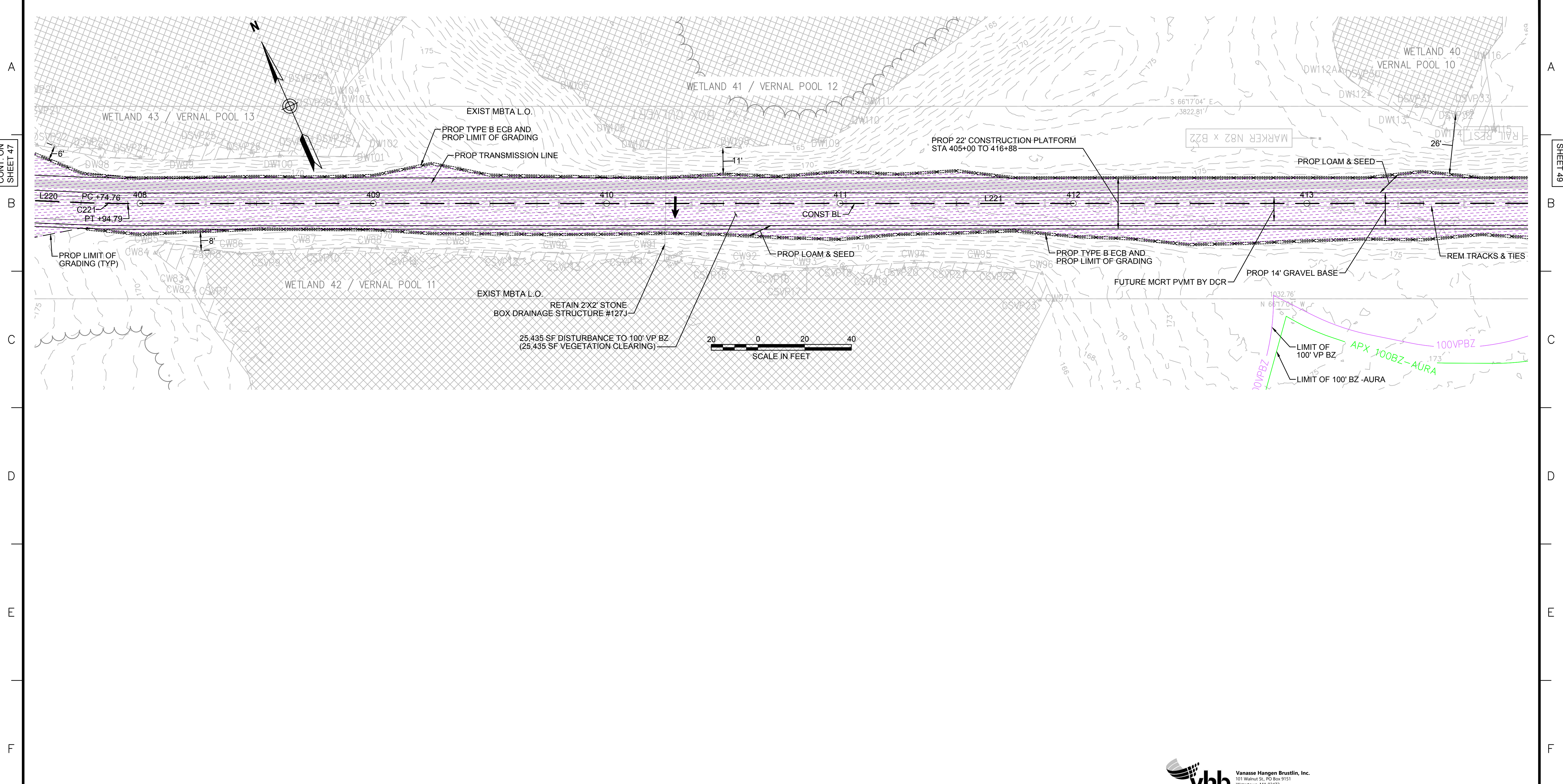
PLAN 47 OF 316

| SCALE: | DATE      | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
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| 1"=20' | JULY 2020 | MS    | SK     | MS    |             |      |

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CONT. ON SHEET 47

CONT. ON SHEET 49



**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |

**vhb** Vanasse Hangen Brustlin, Inc.  
 101 Walnut St., PO Box 9151  
 Watertown, MA 02472  
 617.924.1770 FAX 617.924.2286

| N.O.     | DESCRIPTION | BY | DATE | APPR. |
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| REVISION |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 48 OF 316

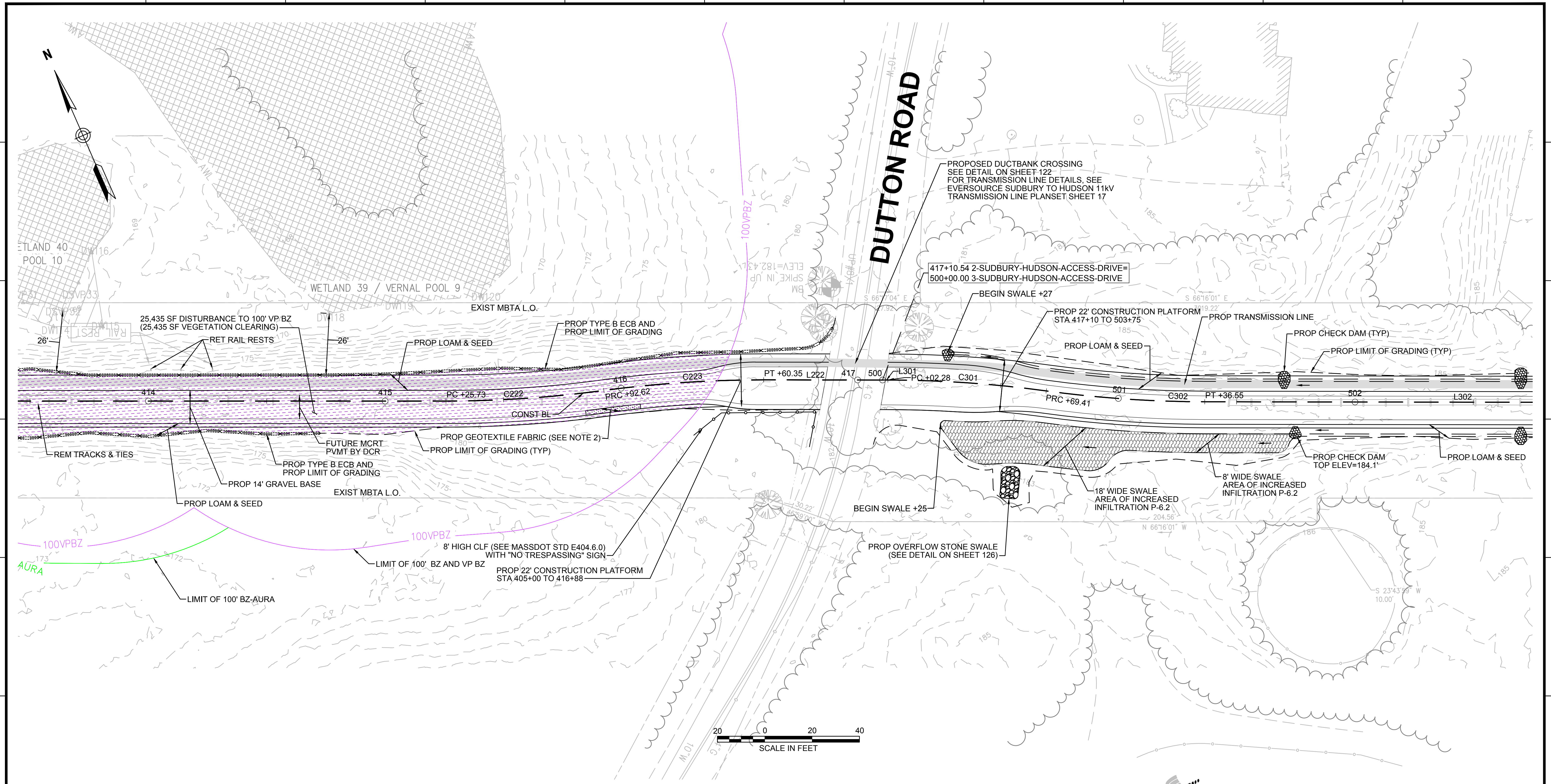
|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|

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CONT. ON SHEET 48

CONT. ON SHEET 50



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227). CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.       |
|---|-------------------|-------------|--------------|-------------|
| <b>REVISION</b>                                   |                   |             |              |             |
| <b>EVERSOURCE</b>                                 |                   |             |              |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |             |
| CONSTRUCTION PLANS                                |                   |             |              |             |
| PLAN 49 OF 316                                    |                   |             |              |             |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       | REV.              |             |              |             |

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CONT. ON SHEET 51

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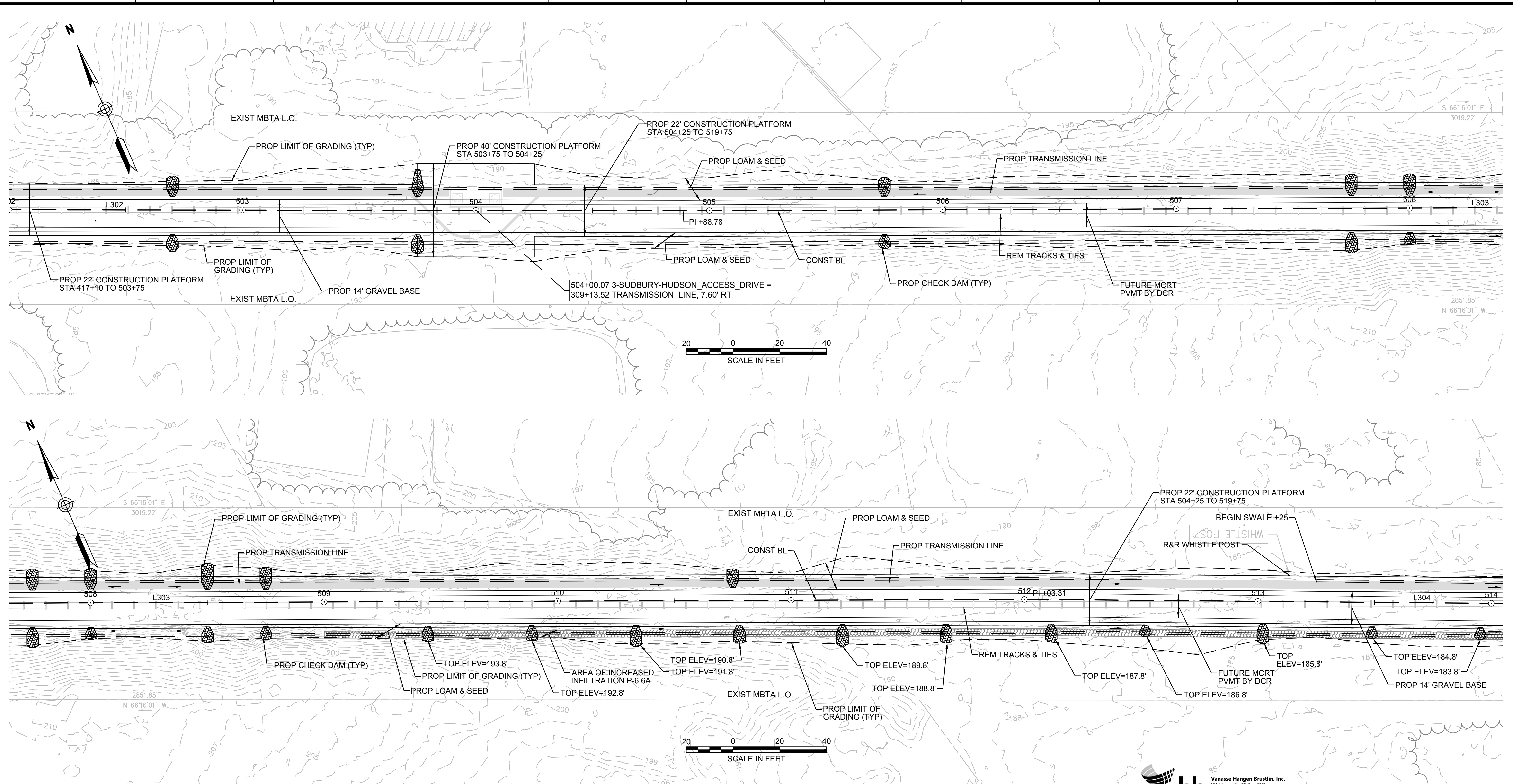
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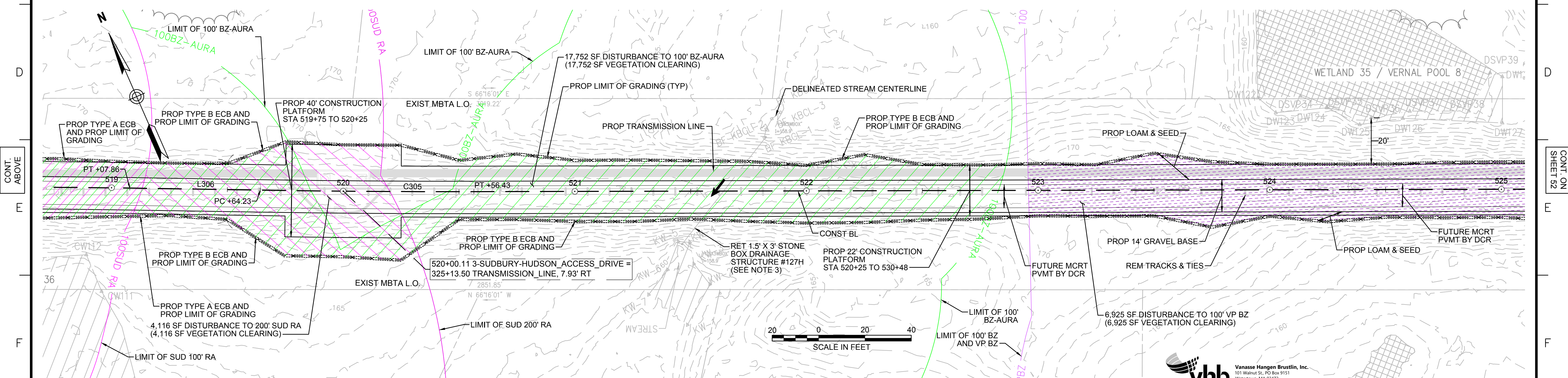
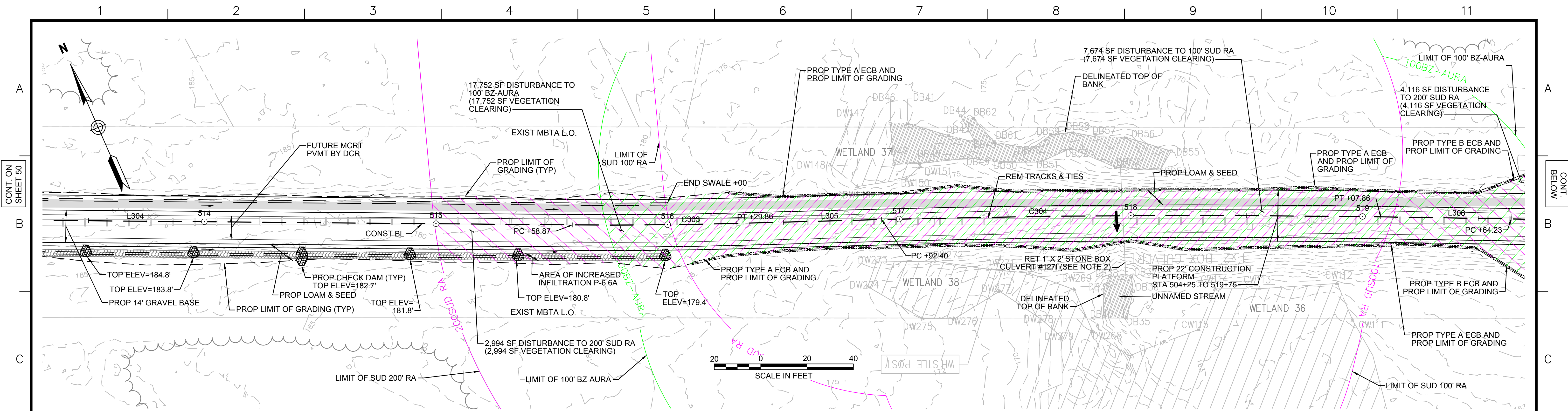
**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.       |
|---|-------------------|-------------|--------------|-------------|
| <b>EVERSOURCE</b>                                 |                   |             |              |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |             |
| CONSTRUCTION PLANS                                |                   |             |              |             |
| PLAN 50 OF 316                                    |                   |             |              |             |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       |                   |             |              | REV.        |

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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO CLEAR OUT DEBRIS IN NORTH END OF STONE BOX CULVERT BY HAND.
  3. CONTRACTOR TO CUT TWO 12" TREES ON SOUTHWEST WINGWALL OF STONE BOX DRAINAGE STRUCTURE. NO GRUBBING TO BE PERFORMED OUTSIDE OF LIMITS OF GRADING.
  4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |

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| N.O. | DESCRIPTION | REVISION | BY | DATE | APPR. |
|------|-------------|----------|----|------|-------|
|      |             |          |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

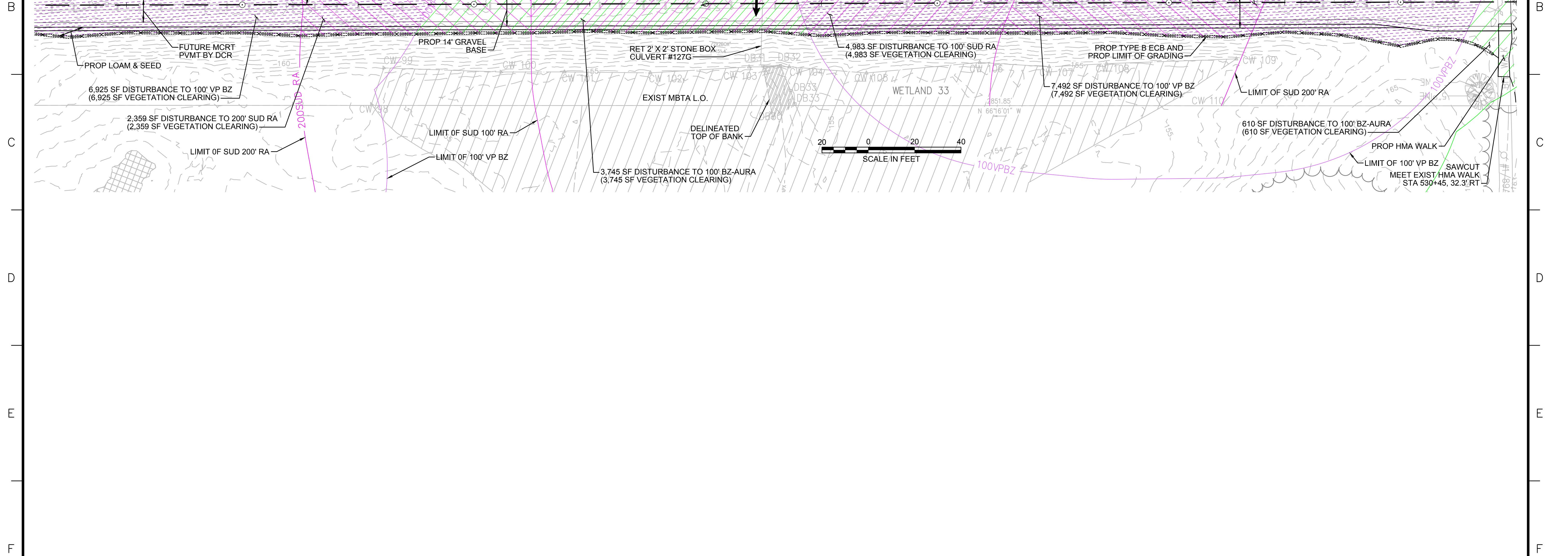
PLAN 51 OF 316

|                               |                   |             |              |             |                 |          |
|-------------------------------|-------------------|-------------|--------------|-------------|-----------------|----------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO.<br> | REV.<br> |
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CONT. ON SHEET 51

CONT. ON SHEET 53



CONT. ON SHEET 51

CONT. ON SHEET 53

**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                               |                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | BORDERING VEGETATED WETLAND                              |                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | LAND UNDER WATER   |                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | VERNAL POOL  |                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |                              | DISTURBANCE TO BLSF                                       |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |                              | EXISTING TREE LINE  |
|                              | TEMPORARY DISTURBANCE TO BANK                            |                              | LIMIT OF GRADING  |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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**EVERSOURCE**

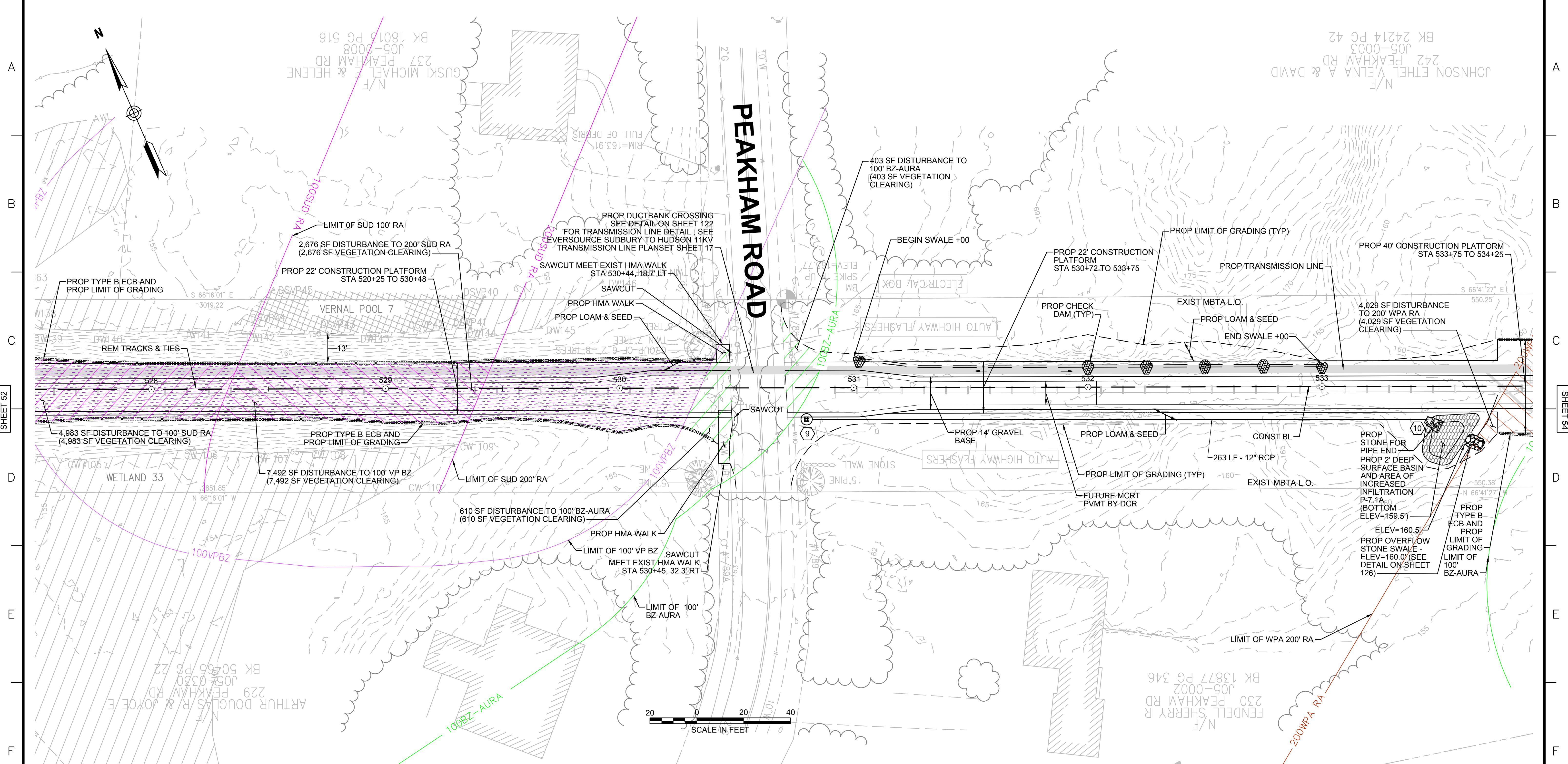
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 52 OF 316

|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|

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CONT. ON SHEET 52

CONT. ON SHEET 54

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatched Box]                | ISOLATED VEGETATED WETLAND                               | [Hatched Box]                | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatched Box]                | BORDERING VEGETATED WETLAND                              | [Hatched Box]                | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box]                | LAND UNDER WATER   | [Hatched Box]                | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatched Box]                | VERNAL POOL  | [Hatched Box]                | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Box]                | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatched Box]                | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatched Box]                | DISTURBANCE TO BLSF                                       |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatched Box]                | EXISTING TREE LINE  |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO BANK                            | [Hatched Box]                | LIMIT OF GRADING  |
| [Hatched Box]                | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |

| NO. | TYPE       | STATION              | RIM ELEV. | INV. IN     | INV. OUT | REMARKS                              |
|-----|------------|----------------------|-----------|-------------|----------|--------------------------------------|
| 9   | SHALLOW CB | STA 530+80, 10.4' RT | 164.85    |             | 162.00'  | SEE CONSTRUCTION DETAIL ON SHEET 126 |
| 10  | FES        | STA 533+46, 14.9' RT | 161.68    | 160.50' (9) |          |                                      |

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| NO. | DESCRIPTION | BY | DATE | APPR. |
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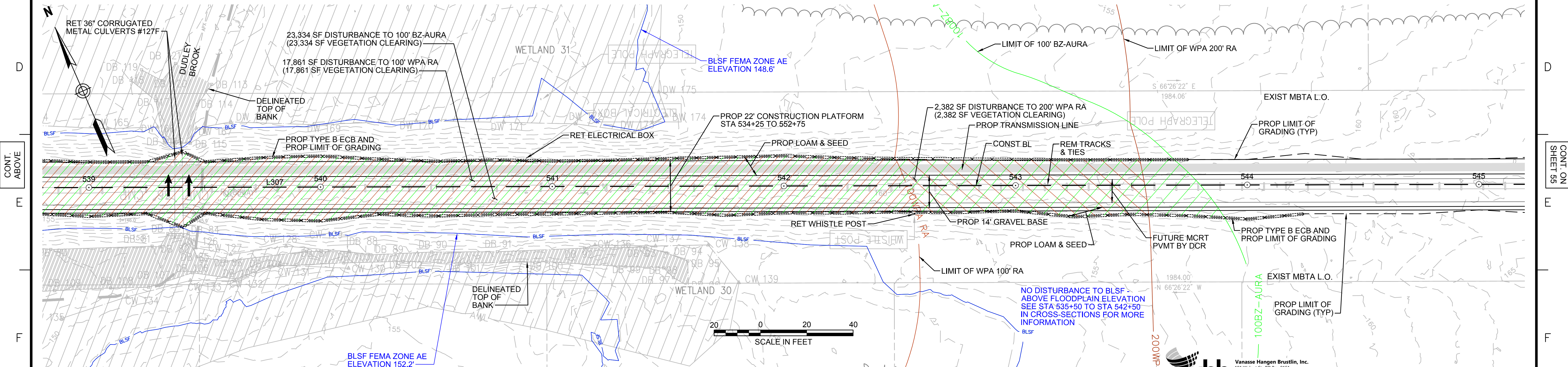
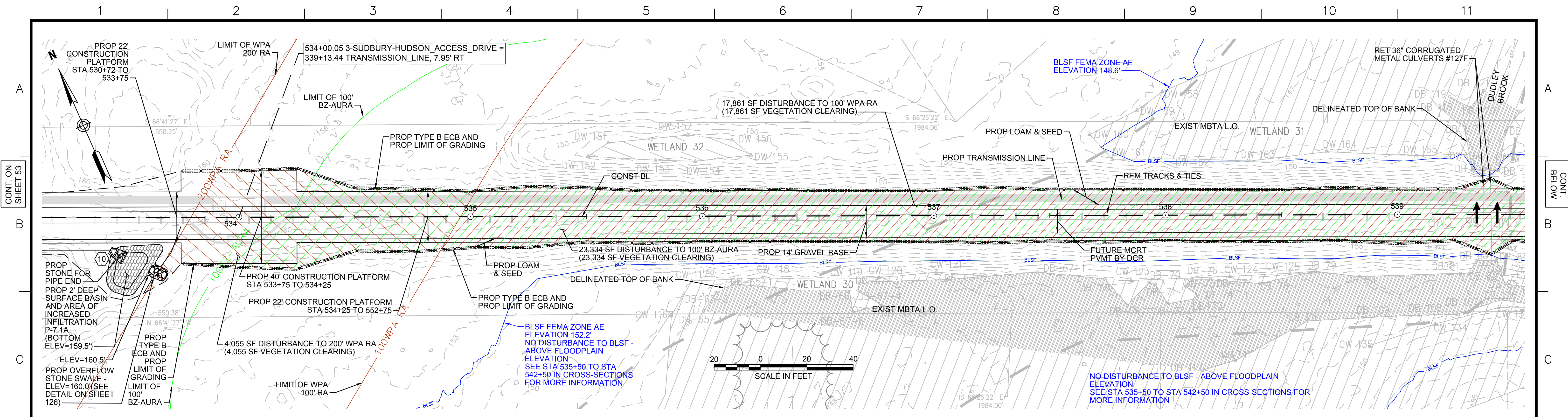
**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 53 OF 316

|                               |                   |             |              |                |             |      |
|-------------------------------|-------------------|-------------|--------------|----------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO. | REV. |
|-------------------------------|-------------------|-------------|--------------|----------------|-------------|------|

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**NOTES:**

1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227)
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |

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Watertown, MA 02472  
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 54 OF 316

|                               |                   |             |              |                |                   |      |
|-------------------------------|-------------------|-------------|--------------|----------------|-------------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO.<br>11 | REV. |
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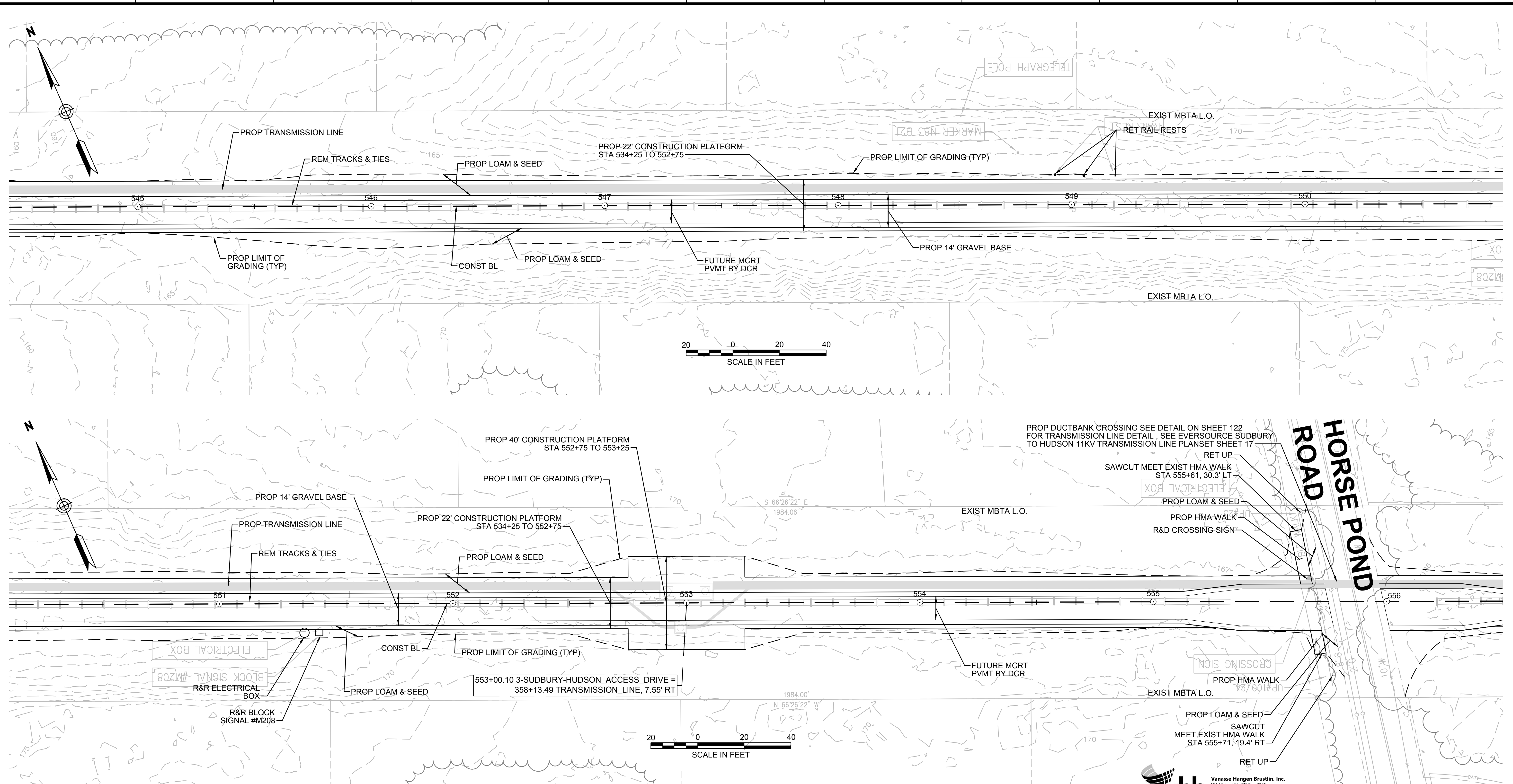
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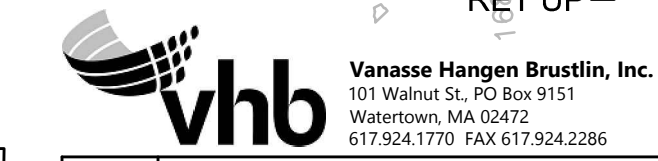
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**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |



| N.O.     | DESCRIPTION | BY | DATE | APPR. |
|----------|-------------|----|------|-------|
| REVISION |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 55 OF 316

|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|

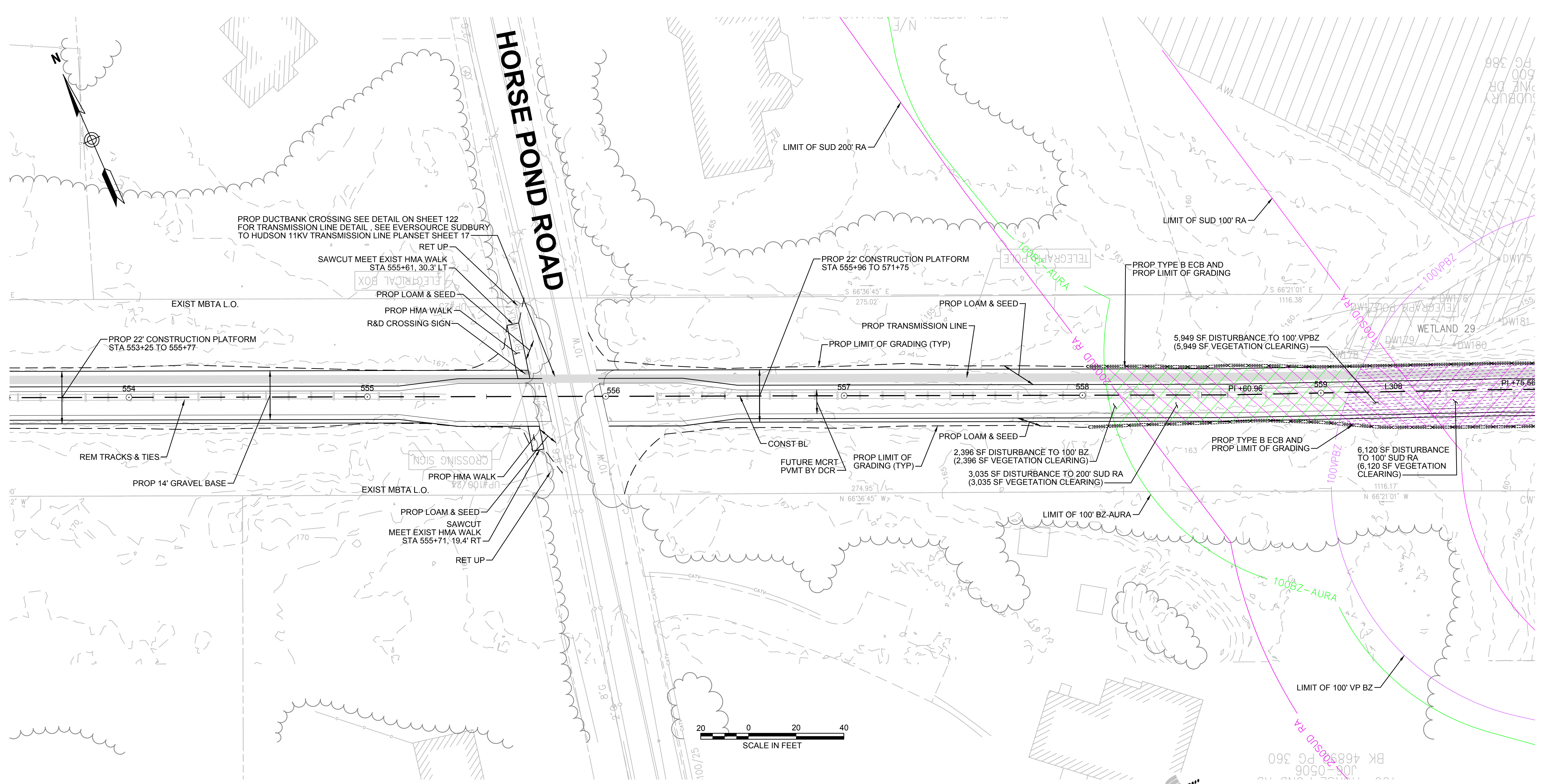
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**HORSE POND ROAD**



**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatched Box]                | ISOLATED VEGETATED WETLAND                               | [Hatched Box]                | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatched Box]                | BORDERING VEGETATED WETLAND                              | [Hatched Box]                | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box]                | LAND UNDER WATER   | [Hatched Box]                | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatched Box]                | VERNAL POOL  | [Hatched Box]                | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Box]                | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatched Box]                | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatched Box]                | DISTURBANCE TO BLSF                                       |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatched Box]                | EXISTING TREE LINE  |
| [Hatched Box]                | TEMPORARY DISTURBANCE TO BANK                            | [Hatched Box]                | LIMIT OF GRADING  |
| [Hatched Box]                | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 56 OF 316

|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
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CONT. ON SHEET 57

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CONT. ON SHEET 58

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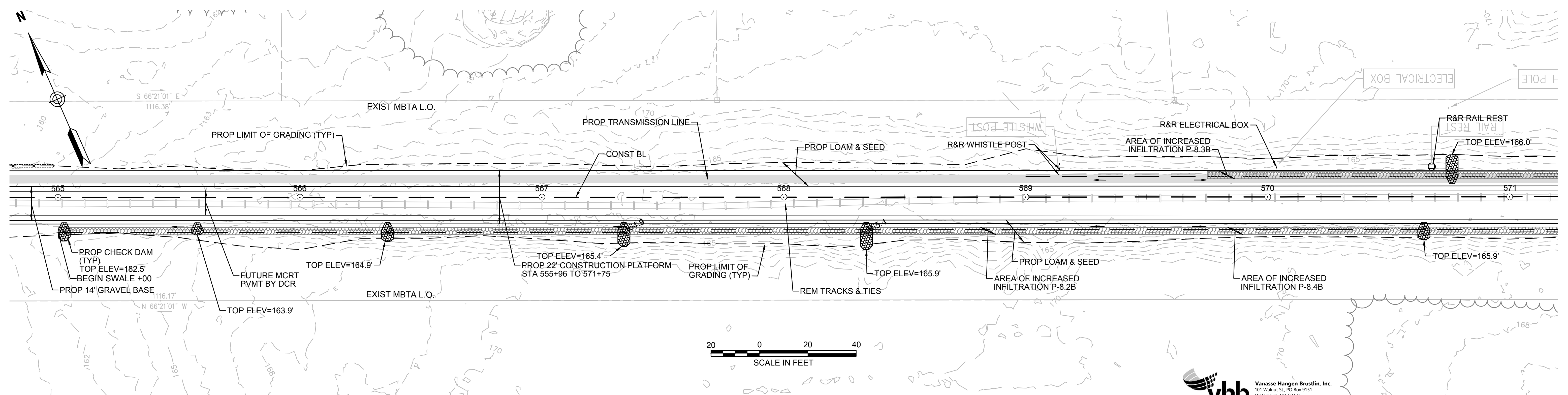
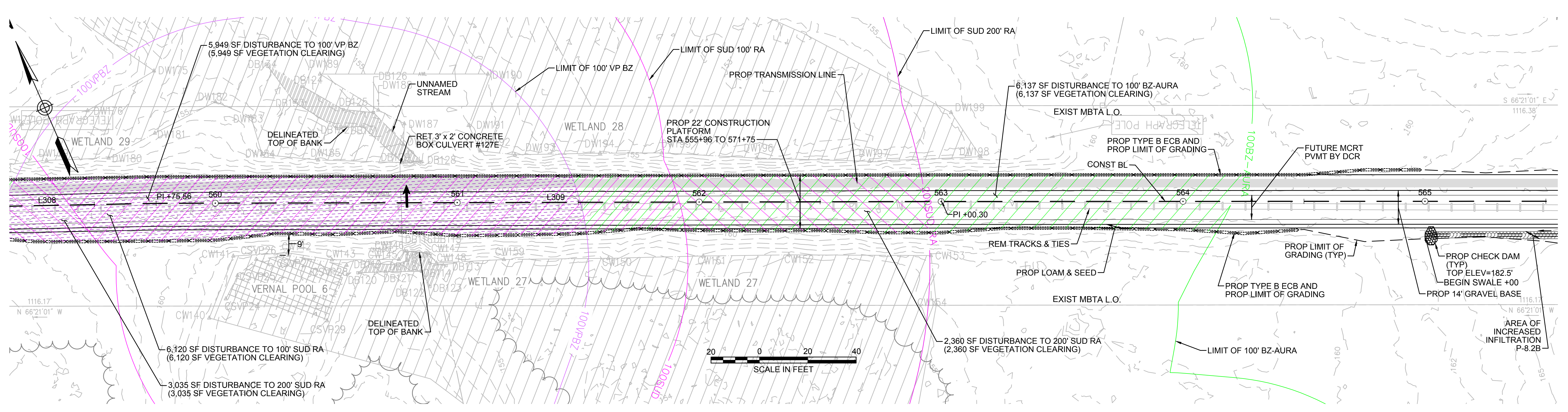
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**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |

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|------|-------------|----------|----|------|-------|
|      |             |          |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 57 OF 316

|                               |                   |             |              |             |                   |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO.<br>11 | REV. |
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CONT. ON SHEET 57

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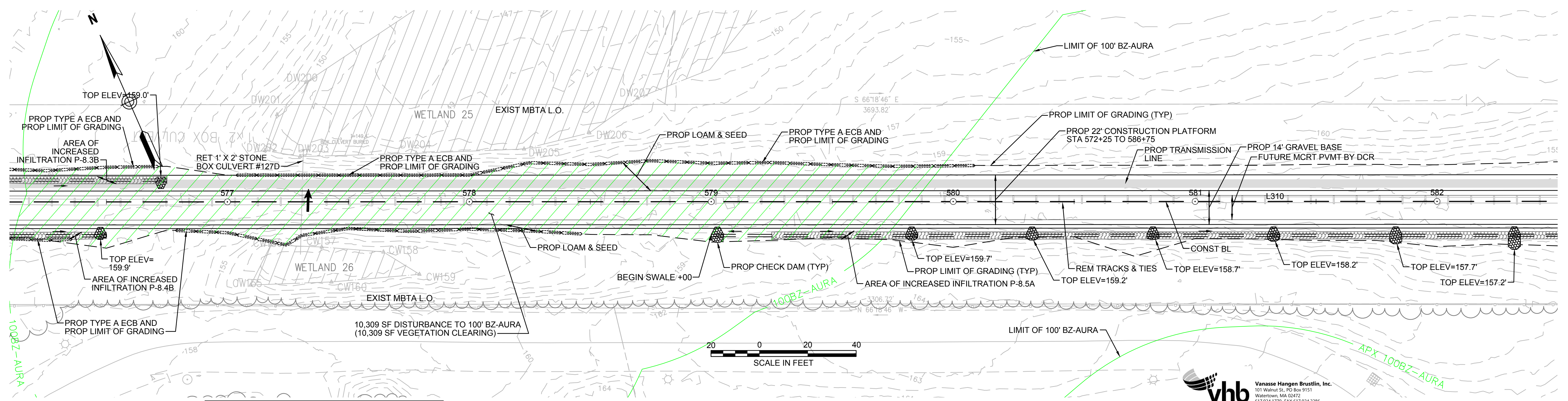
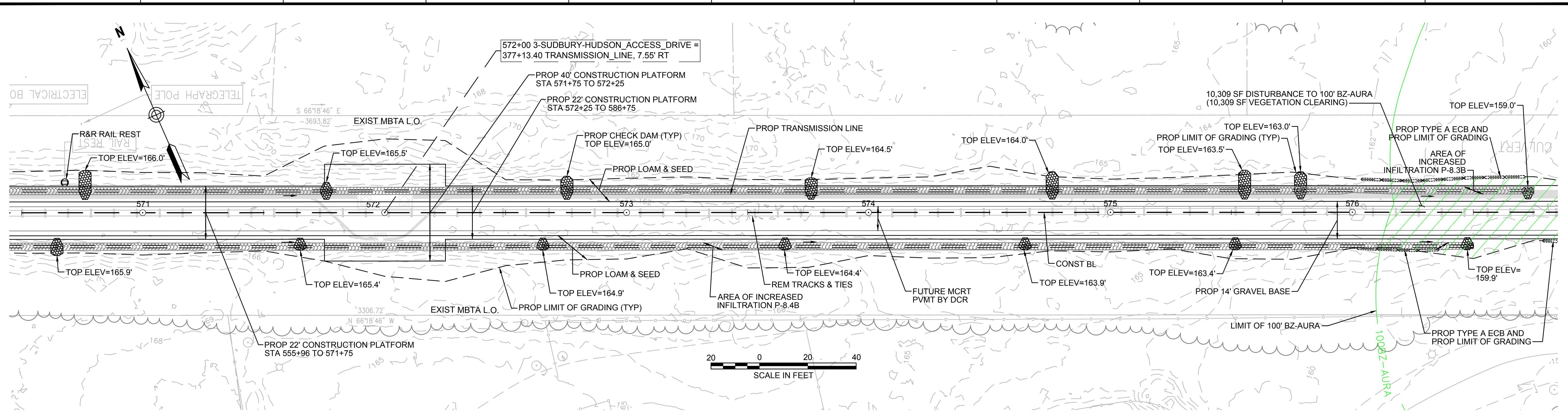
CONT. ON SHEET 59

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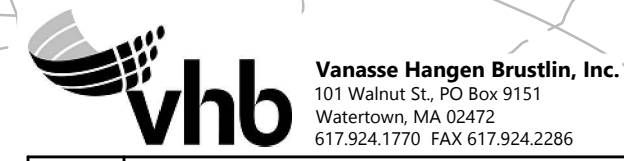
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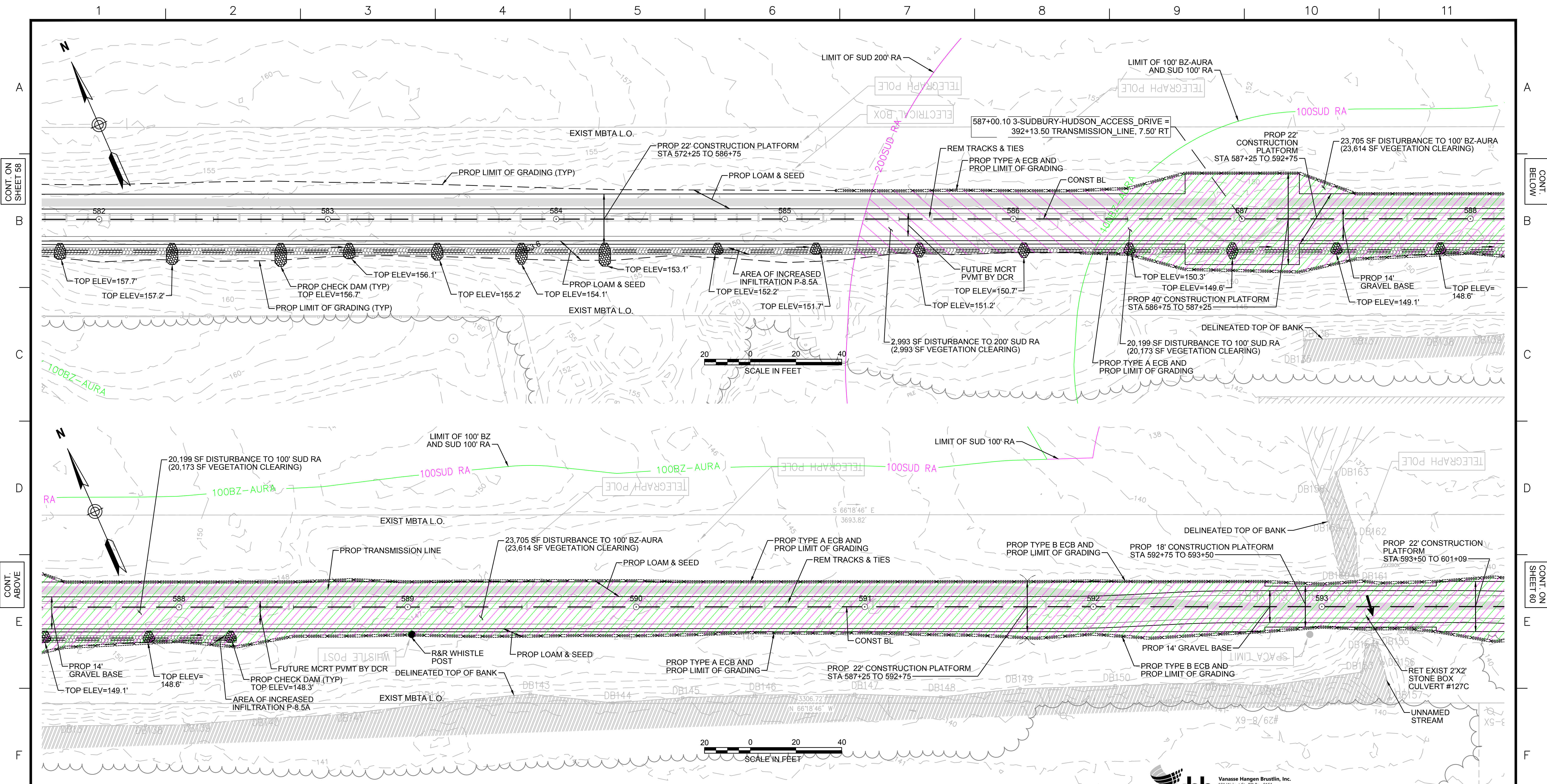
**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |



| N.O.  | DESCRIPTION       | REVISION    | BY           | DATE        | APPR.            |
|---|-------------------|-------------|--------------|-------------|------------------|
| <b>EVERSOURCE</b>                                 |                   |             |              |             |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |             |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |             |                  |
| CONSTRUCTION PLANS                                |                   |             |              |             |                  |
| PLAN 58 OF 316                                    |                   |             |              |             |                  |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. REV. |

1 2 3 4 5 6 7 8 9 10 11



CONT. ON SHEET 58

CONT. BELOW

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CONT. ON SHEET 60

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | DESCRIPTION |   |
|------------------------------|--|-------------|---|
| HATCH                        | DESCRIPTION  | HATCH       | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]     | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]     | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]     | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]     | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]     | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]     | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]     | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]     | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |             |   |



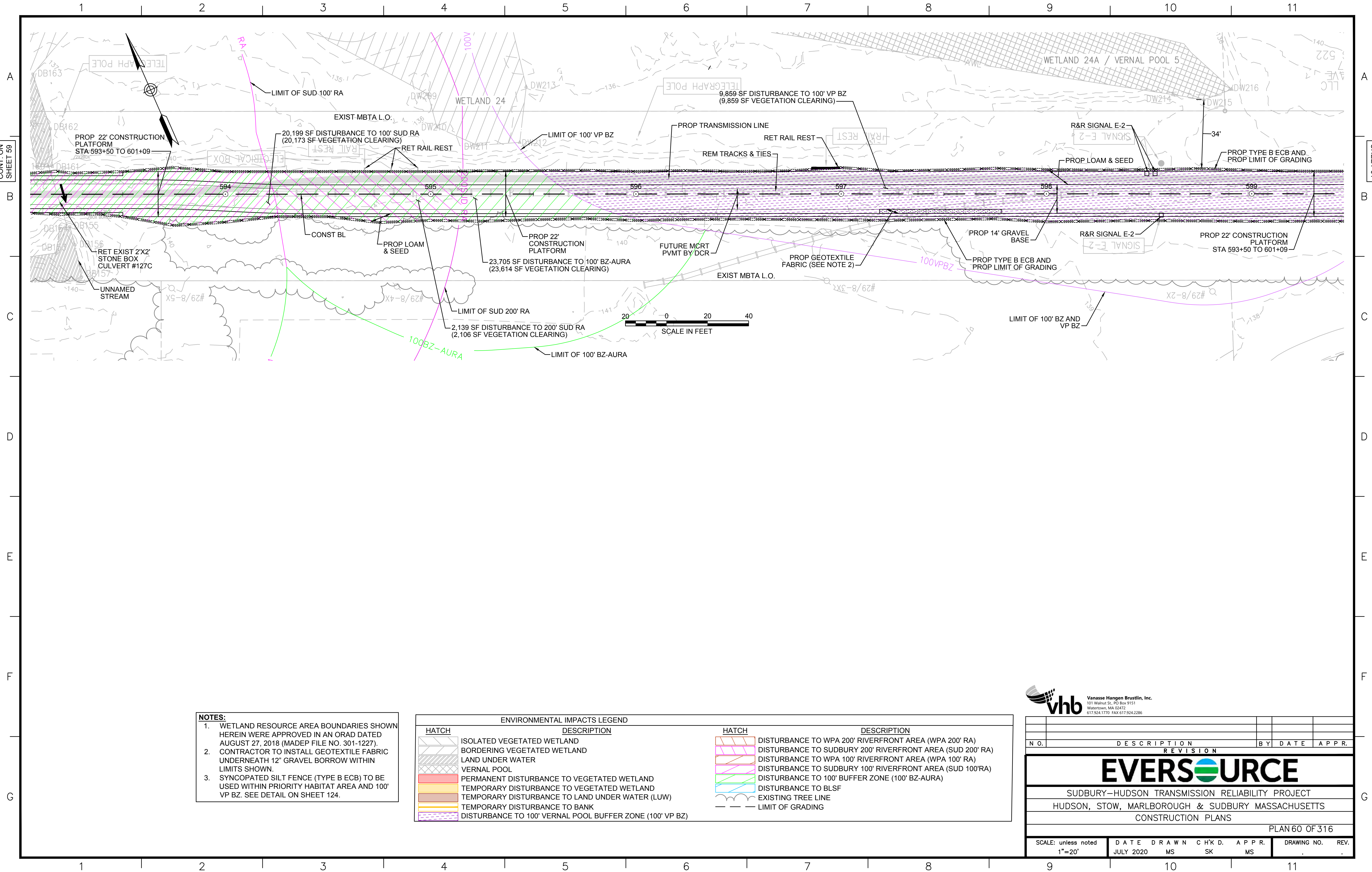
| N.O. | DESCRIPTION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS


PLAN 59 OF 316

|                               |                   |             |              |             |             |      |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  |         |   |
|------------------------------|--|---------|---|
| HATCH                        | DESCRIPTION  | HATCH   | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch] | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch] | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch] | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |         |   |



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|------|-------------|----|------|-------|
|      |             |    |      |       |

## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

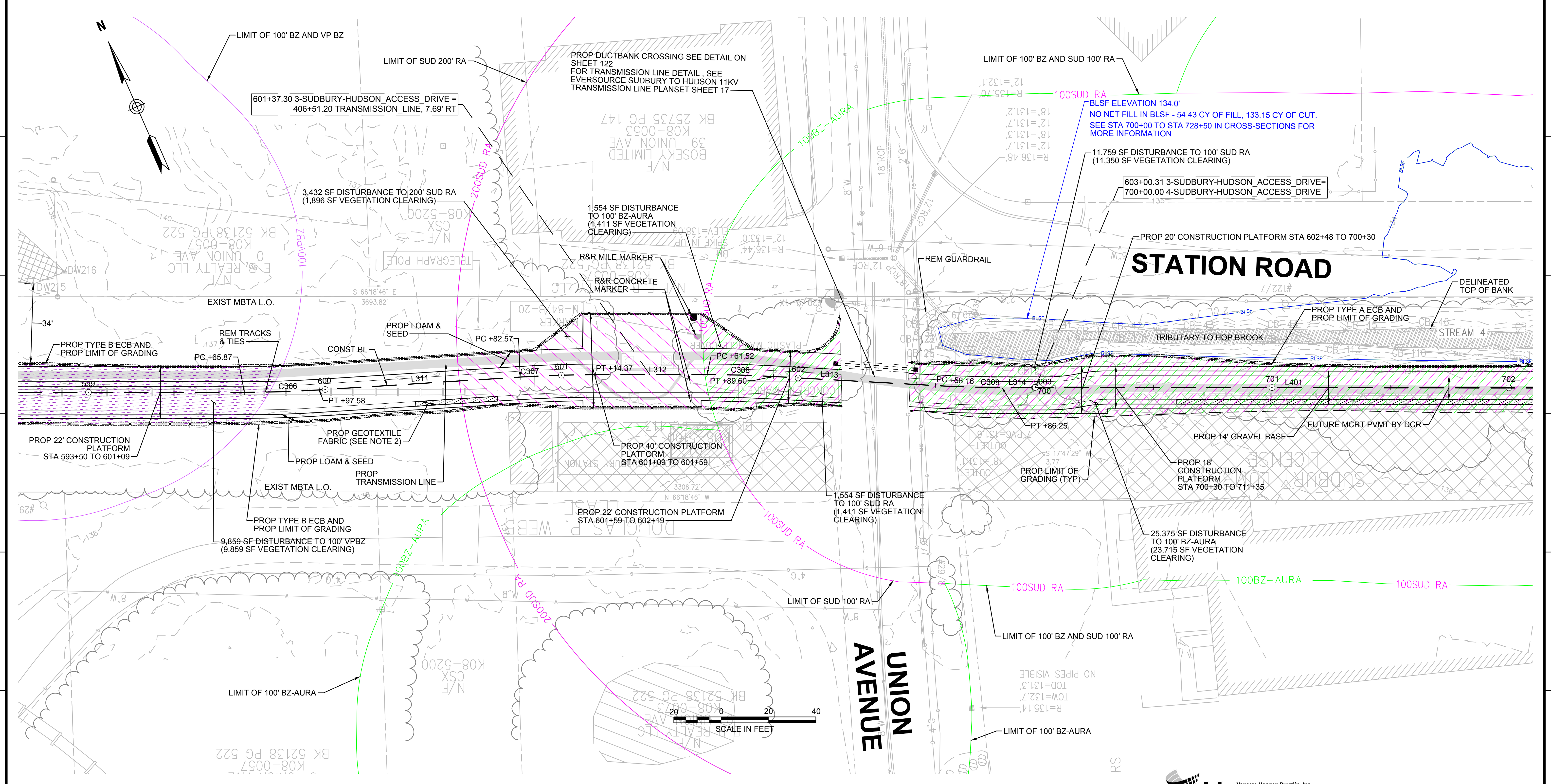
PLAN 60 OF 316

|                               |                               |                     |
|-------------------------------|-------------------------------|---------------------|
| SCALE: unless noted<br>1"=20' | DATE DRAWN<br>JULY 2020 MS SK | CH'K D. APPR.<br>MS |
| DRAWING NO.                   | REV.                          | 11                  |

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C  
D  
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A  
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CONT. ON SHEET 60

CONT. ON SHEET 62

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                               |                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | BORDERING VEGETATED WETLAND                              |                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | LAND UNDER WATER   |                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | VERNAL POOL  |                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |                              | DISTURBANCE TO BLSF                                       |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |                              | EXISTING TREE LINE  |
|                              | TEMPORARY DISTURBANCE TO BANK                            |                              | LIMIT OF GRADING  |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



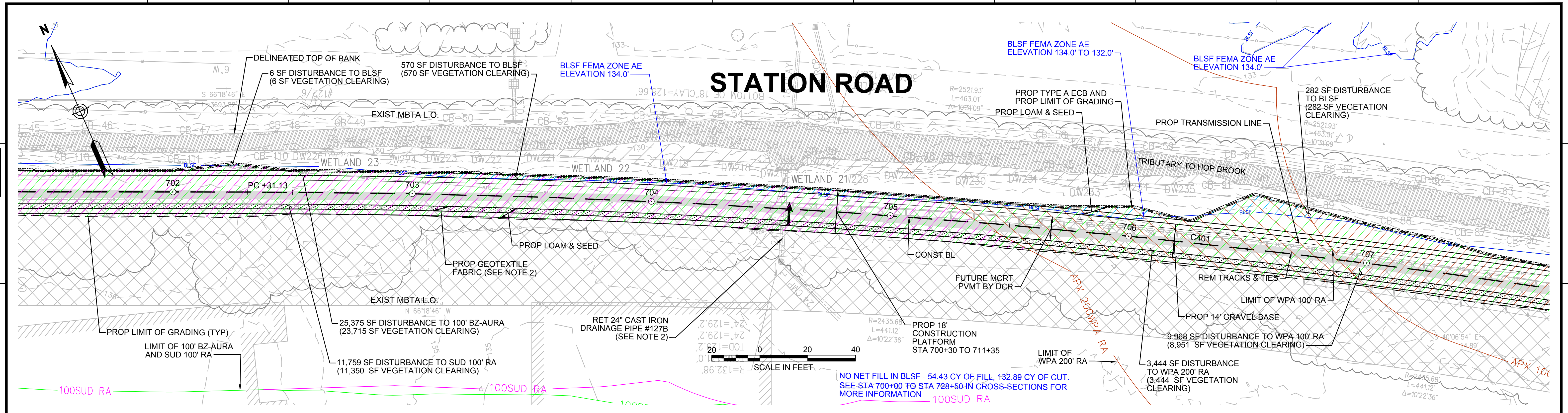
| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.            |
|---|-------------------|-------------|--------------|------------------|
|   |                   |             |              |                  |
| <b>EVERSOURCE</b>                                 |                   |             |              |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |                  |
| CONSTRUCTION PLANS                                |                   |             |              |                  |
| PLAN 61 OF 316                                    |                   |             |              |                  |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS      |
|   |                   |             |              | DRAWING NO. REV. |

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1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 61

CONT. ON SHEET 63



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE (SEE DETAIL ON SHEET 127).

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |

NO NET FILL IN BLSF - 54.43 CY OF FILL, 132.89 CY OF CUT.  
SEE STA 700+00 TO STA 728+50 IN CROSS-SECTIONS FOR MORE INFORMATION

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

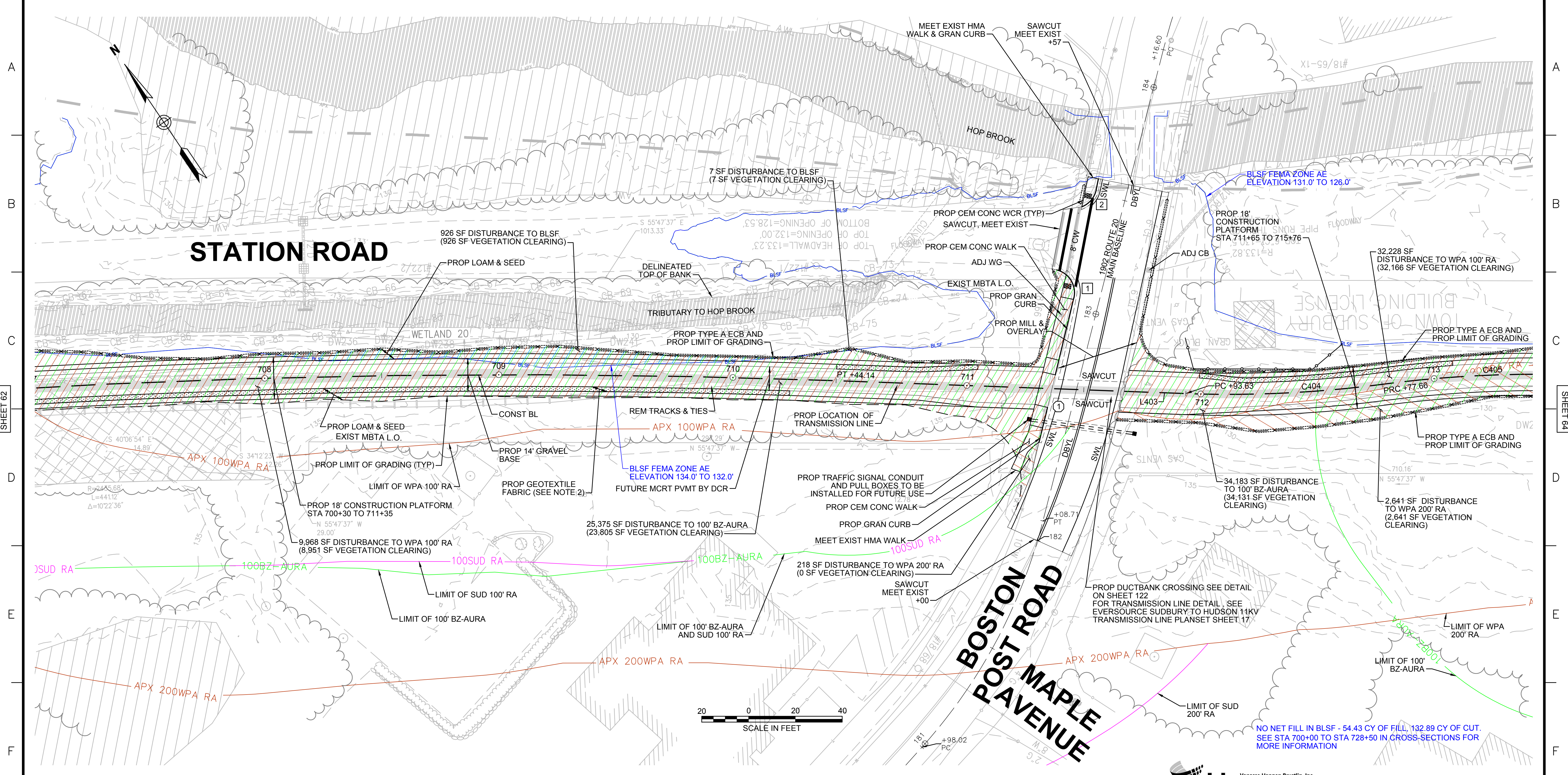
**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 62 OF 316

| SCALE: unless noted | DATE      | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
|---------------------|-----------|-------|--------|-------|-------------|------|
| 1"=20'              | JULY 2020 | MS    | SK     | MS    |             |      |

1 2 3 4 5 6 7 8 9 10 11



CONT. ON SHEET 62

CONT. ON SHEET 64

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. MODIFY MASSDOT STD E404.6.0 SUCH THAT CEMENT CONCRETE BASE UNDER LATCH ROD IS 12" DEEP.

- LEGEND:**
- ⊗ WCR NUMBER
  - ⊗ ACCESS ROAD CROSSING NUMBER

| HATCH         | DESCRIPTION  |
|---------------|--|
| [Hatched Box] | ISOLATED VEGETATED WETLAND                               |
| [Hatched Box] | BORDERING VEGETATED WETLAND                              |
| [Hatched Box] | LAND UNDER WATER   |
| [Hatched Box] | VERNAL POOL  |
| [Hatched Box] | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |
| [Hatched Box] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |
| [Hatched Box] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |
| [Hatched Box] | TEMPORARY DISTURBANCE TO BANK                            |
| [Hatched Box] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |

| HATCH         | DESCRIPTION   |
|---------------|---|
| [Hatched Box] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatched Box] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Box] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatched Box] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Box] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatched Box] | DISTURBANCE TO BLSF                                       |
| [Hatched Box] | EXISTING TREE LINE  |
| [Hatched Box] | LIMIT OF GRADING  |

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 Watertown, MA 02472  
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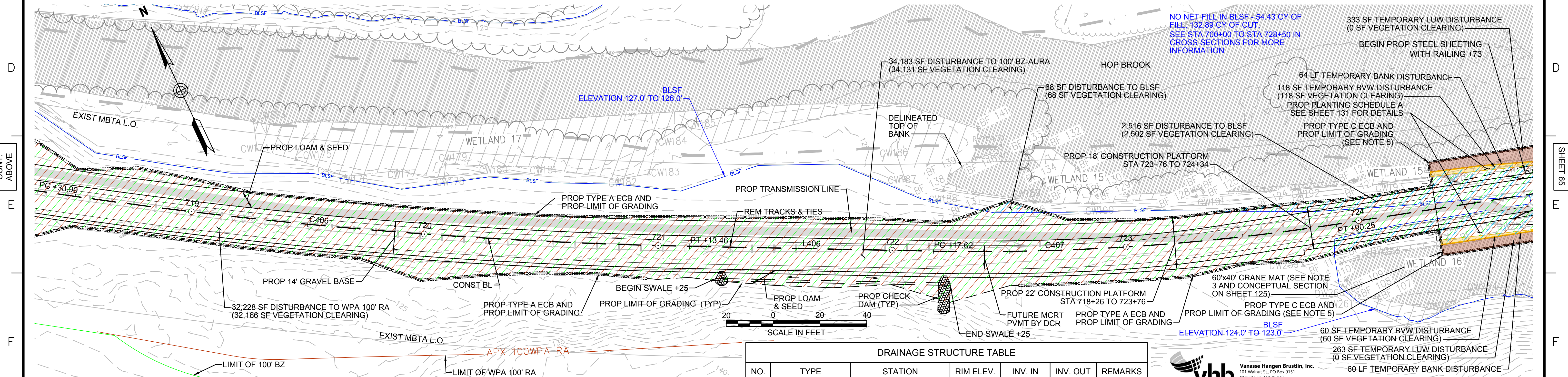
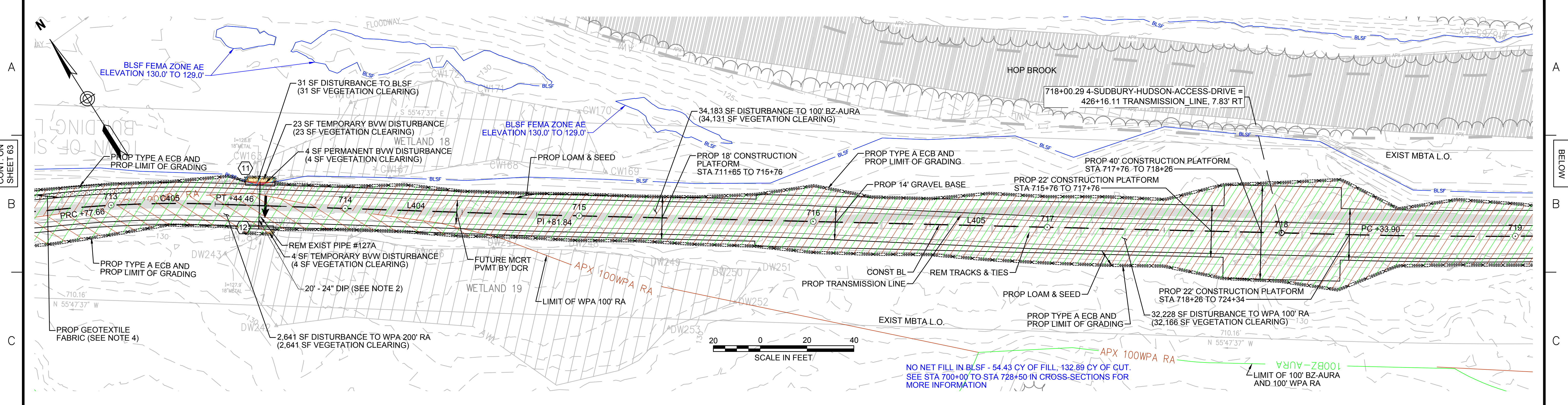
| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 63 OF 316

|                               |                   |             |              |                |                 |          |
|-------------------------------|-------------------|-------------|--------------|----------------|-----------------|----------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO.<br> | REV.<br> |
|-------------------------------|-------------------|-------------|--------------|----------------|-----------------|----------|



| ENVIRONMENTAL IMPACTS LEGEND |  | DESCRIPTION |   |
|------------------------------|--|-------------|---|
|                              | ISOLATED VEGETATED WETLAND                               |             | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | BORDERING VEGETATED WETLAND                              |             | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | LAND UNDER WATER   |             | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | VERNAL POOL  |             | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |             | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |             | DISTURBANCE TO BLSF                                       |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |             | EXISTING TREE LINE  |
|                              | TEMPORARY DISTURBANCE TO BANK                            |             | LIMIT OF GRADING  |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |             |   |

| NO. | TYPE              | STATION          | RIM ELEV. | INV. IN | INV. OUT | REMARKS    |
|-----|-------------------|------------------|-----------|---------|----------|------------|
| 11  | Concrete Headwall | 713+63, 10.0' LT |           | 128.81' |          | 18" REVEAL |
| 12  | Concrete Headwall | 713+63, 10.0' RT |           | 128.55' |          | 18" REVEAL |

- NOTES:**
- WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  - TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE.
  - MAXIMUM CRANE PAD DIMENSIONS OF 40'X40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT LOCATION TO BE SHIFTED DURING CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
  - CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  - TYPE C ECB SHALL CONSIST OF EITHER STAKED 4' HIGH SILT FENCE OR BOTTOM-ANCHORED TURBIDITY CURTAIN DEPENDING ON WATER LEVELS AT THE TIME OF CONSTRUCTION. THE APPROPRIATE ECB SHALL BE INSTALLED AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.

**vhb** Vanasse Hangen Brustlin, Inc.  
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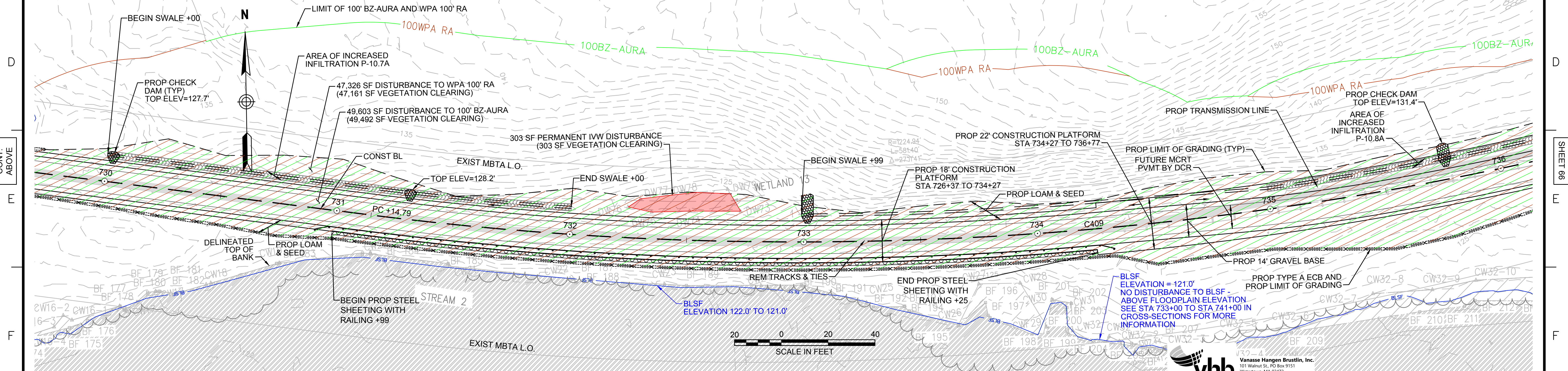
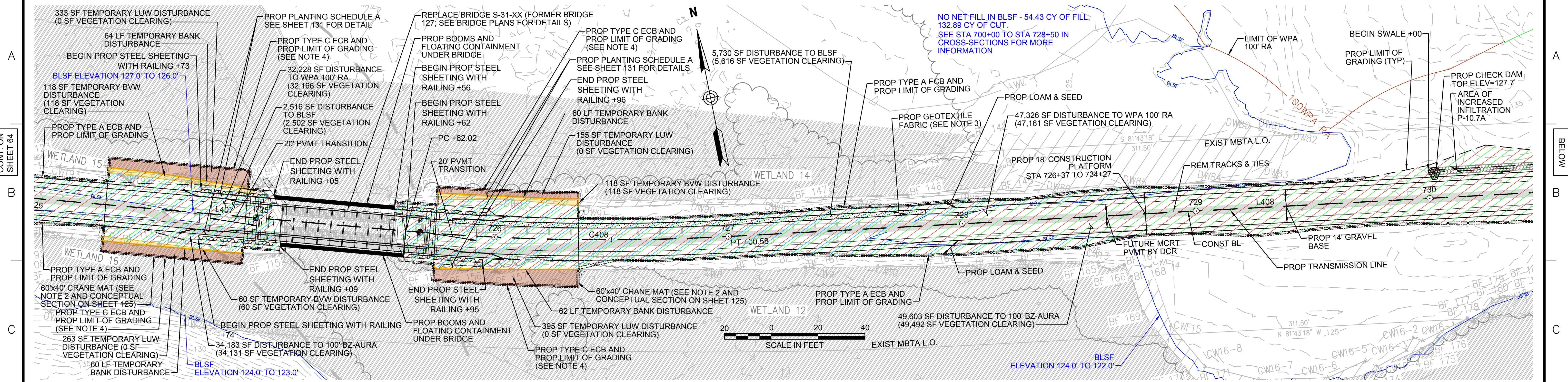
| NO. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 64 OF 316

|                               |                   |             |              |                |                 |          |
|-------------------------------|-------------------|-------------|--------------|----------------|-----------------|----------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO.<br> | REV.<br> |
|-------------------------------|-------------------|-------------|--------------|----------------|-----------------|----------|



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. MAXIMUM CRANE PAD DIMENSIONS OF 40'x40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT LOCATION TO BE SHIFTED DURING CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12' GRAVEL BORROW WITHIN LIMITS SHOWN. TYPE C ECB SHALL CONSIST OF EITHER STAKED 4' HIGH SILT FENCE OR BOTTOM-ANCHORED TURBIDITY CURTAIN DEPENDING ON WATER LEVELS AT THE TIME OF CONSTRUCTION. THE APPROPRIATE ECB SHALL BE INSTALLED AT THE DIRECTION OF THE ENVIRONMENTAL MONITOR.

**ENVIRONMENTAL IMPACTS LEGEND**

| HATCH             | DESCRIPTION  |
|-------------------|--|
| (Hatched pattern) | ISOLATED VEGETATED WETLAND                               |
| (Hatched pattern) | BORDERING VEGETATED WETLAND                              |
| (Hatched pattern) | LAND UNDER WATER   |
| (Hatched pattern) | VERNAL POOL  |
| (Hatched pattern) | PERMANENT DISTURBANCE TO VEGETATED WETLAND               |
| (Hatched pattern) | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               |
| (Hatched pattern) | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          |
| (Hatched pattern) | TEMPORARY DISTURBANCE TO BANK                            |
| (Hatched pattern) | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |

| HATCH             | DESCRIPTION   |
|-------------------|---|
| (Hatched pattern) | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| (Hatched pattern) | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| (Hatched pattern) | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| (Hatched pattern) | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| (Hatched pattern) | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| (Hatched pattern) | DISTURBANCE TO BLSF                                       |
| (Hatched pattern) | EXISTING TREE LINE  |
| (Hatched pattern) | LIMIT OF GRADING  |

**vhb** Vanasse Hangen Brustlin, Inc.  
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Watertown, MA 02472  
617.924.1770 FAX 617.924.2286

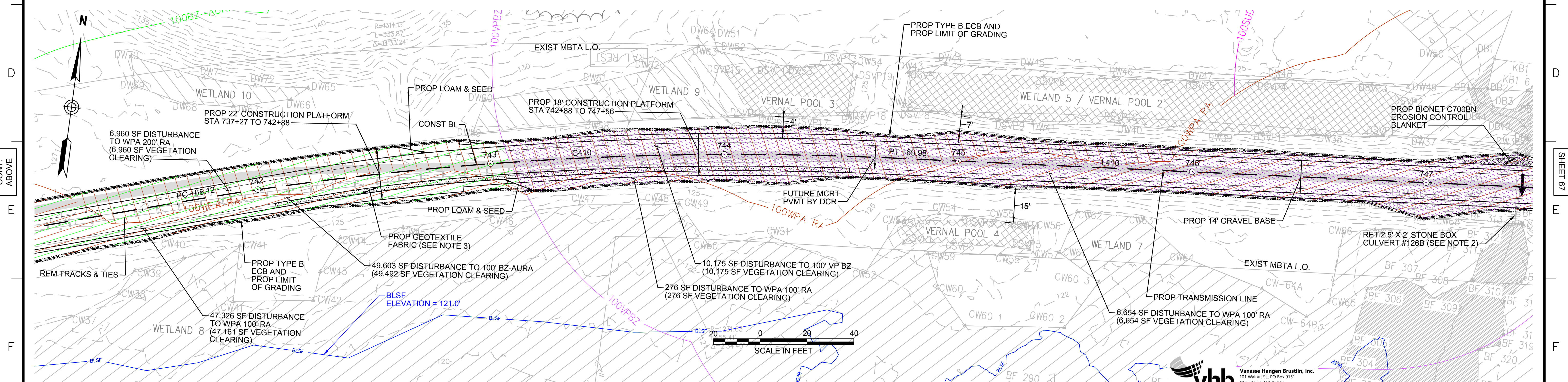
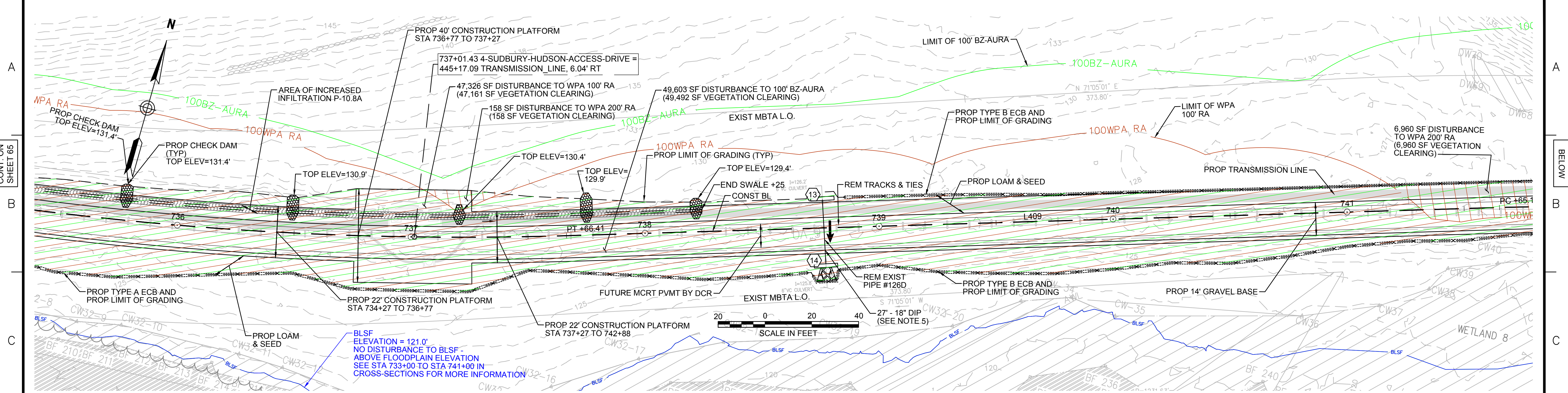
| N.O. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS  
PLAN 65 OF 316

|                               |                   |             |              |                |                     |
|-------------------------------|-------------------|-------------|--------------|----------------|---------------------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MS | DRAWING NO.<br>REV. |
|-------------------------------|-------------------|-------------|--------------|----------------|---------------------|





| NO. | TYPE              | STATION          | RIM ELEV. | INV. IN | INV. OUT | REMARKS    |
|-----|-------------------|------------------|-----------|---------|----------|------------|
| 13  | Concrete Headwall | 738+77, 12.0' LT |           |         | 127.10'  | 12" REVEAL |
| 14  | Concrete Headwall | 738+77, 15.4' RT |           | 125.07' |          | 12" REVEAL |

| HATCH             | DESCRIPTION  | HATCH             | DESCRIPTION   |
|-------------------|--|-------------------|---|
| [Hatched Pattern] | ISOLATED VEGETATED WETLAND                               | [Hatched Pattern] | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatched Pattern] | BORDERING VEGETATED WETLAND                              | [Hatched Pattern] | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatched Pattern] | LAND UNDER WATER   | [Hatched Pattern] | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatched Pattern] | VERNAL POOL  | [Hatched Pattern] | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatched Pattern] | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatched Pattern] | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatched Pattern] | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatched Pattern] | DISTURBANCE TO BLSF                                       |
| [Hatched Pattern] | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatched Pattern] | EXISTING TREE LINE  |
| [Hatched Pattern] | TEMPORARY DISTURBANCE TO BANK                            | [Hatched Pattern] | LIMIT OF GRADING  |
| [Hatched Pattern] | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                   |   |

- NOTES:**
- WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  - CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
  - CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  - SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.
  - TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE (SEE DETAIL ON SHEET 127).

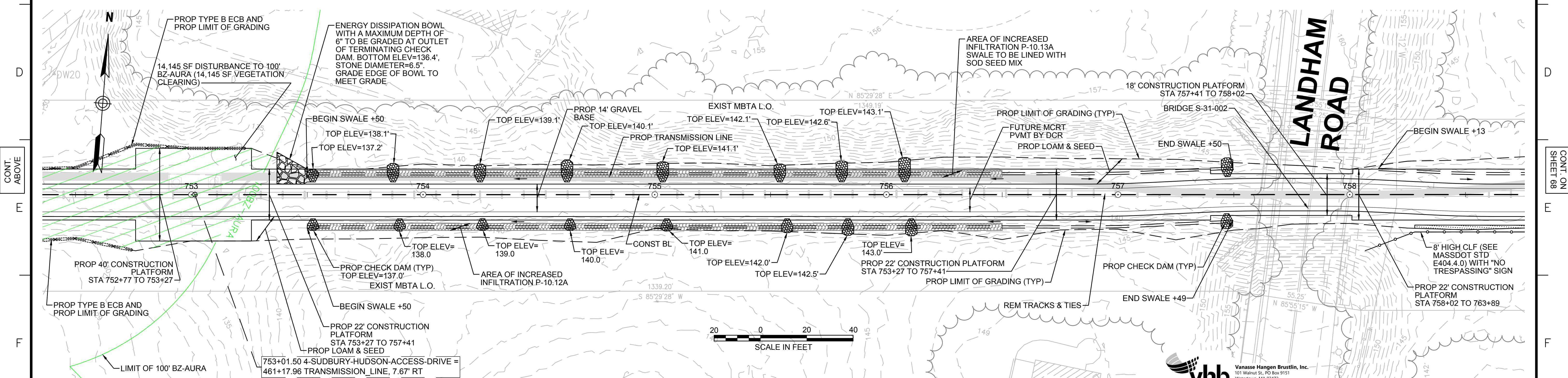
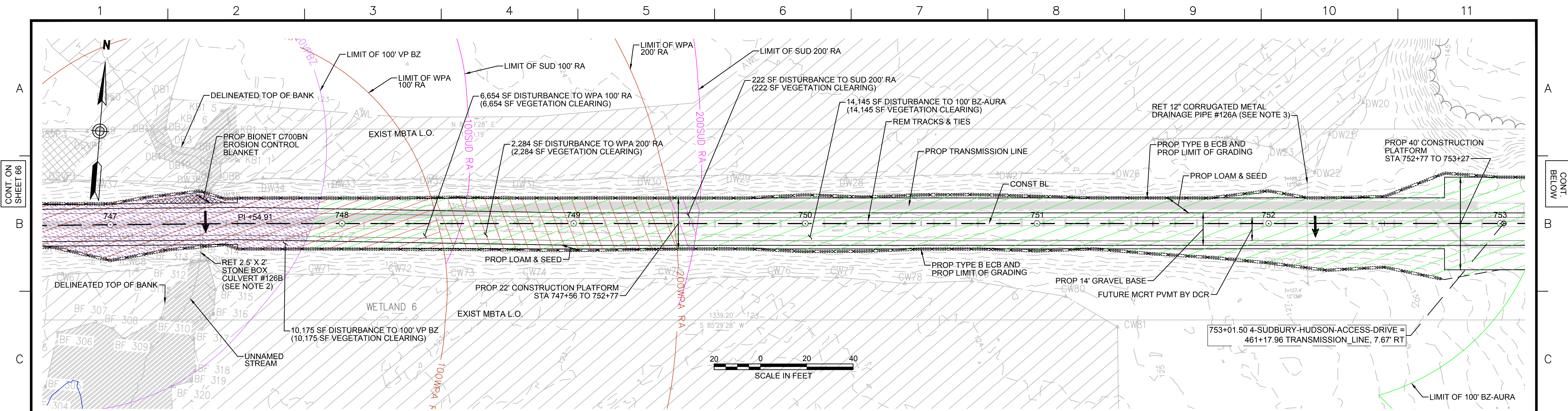
**vhb** Vanasse Hangen Brustlin, Inc.  
 101 Walnut St., PO Box 9151  
 Watertown, MA 02472  
 617.924.1770 FAX: 617.924.2286

| NO. | DESCRIPTION | REVISION | BY | DATE | APPR. |
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|     |             |          |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS  
 PLAN 66 OF 316

SCALE: unless noted 1"=20'  
 DATE DRAWN JULY 2020  
 CHK'D. MS  
 APPR. SK MS  
 DRAWING NO. REV.



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
  3. CONTRACTOR TO CLEAR SEDIMENT IN DRAINAGE PIPE BY HAND.
  4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|------|-------------|----|------|-------|
|      |             |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 67 OF 316

| SCALE: | DATE      | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
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| 1"=20' | JULY 2020 | MS    | SK     | MS    |             |      |

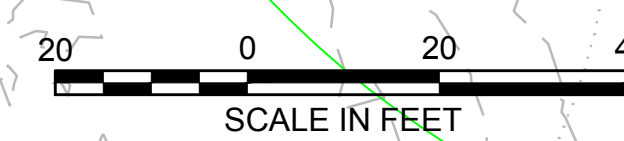
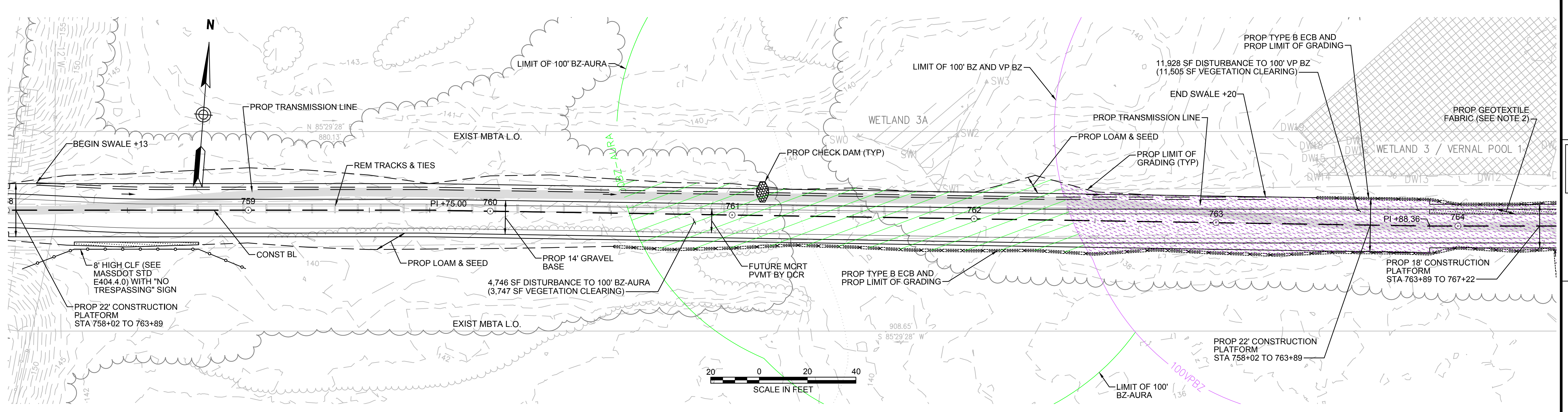
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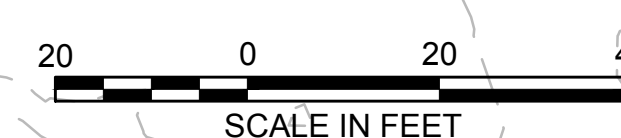
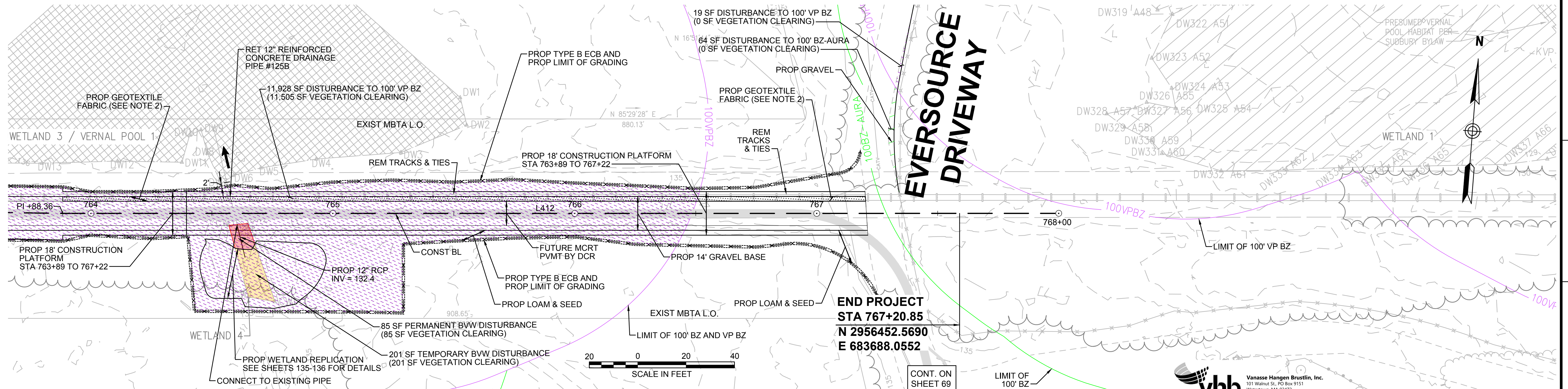


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**END PROJECT**  
**STA 767+20.85**  
**N 2956452.5690**  
**E 683688.0552**

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227). CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |  | ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|--|------------------------------|---|
| HATCH                        | DESCRIPTION  | HATCH                        | DESCRIPTION   |
| [Hatch]                      | ISOLATED VEGETATED WETLAND                               | [Hatch]                      | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
| [Hatch]                      | BORDERING VEGETATED WETLAND                              | [Hatch]                      | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
| [Hatch]                      | LAND UNDER WATER   | [Hatch]                      | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
| [Hatch]                      | VERNAL POOL  | [Hatch]                      | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
| [Hatch]                      | PERMANENT DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
| [Hatch]                      | TEMPORARY DISTURBANCE TO VEGETATED WETLAND               | [Hatch]                      | DISTURBANCE TO BLSF                                       |
| [Hatch]                      | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)          | [Hatch]                      | EXISTING TREE LINE  |
| [Hatch]                      | TEMPORARY DISTURBANCE TO BANK                            | [Hatch]                      | LIMIT OF GRADING  |
| [Hatch]                      | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ) |                              |   |



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

PLAN 68 OF 316

| SCALE: | DATE      | DRAWN | CHK'D. | APPR. | DRAWING NO. | REV. |
|--------|-----------|-------|--------|-------|-------------|------|
| 1"=20' | JULY 2020 | MS    | SK     | MS    |             |      |

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CONT. ON SHEET 68

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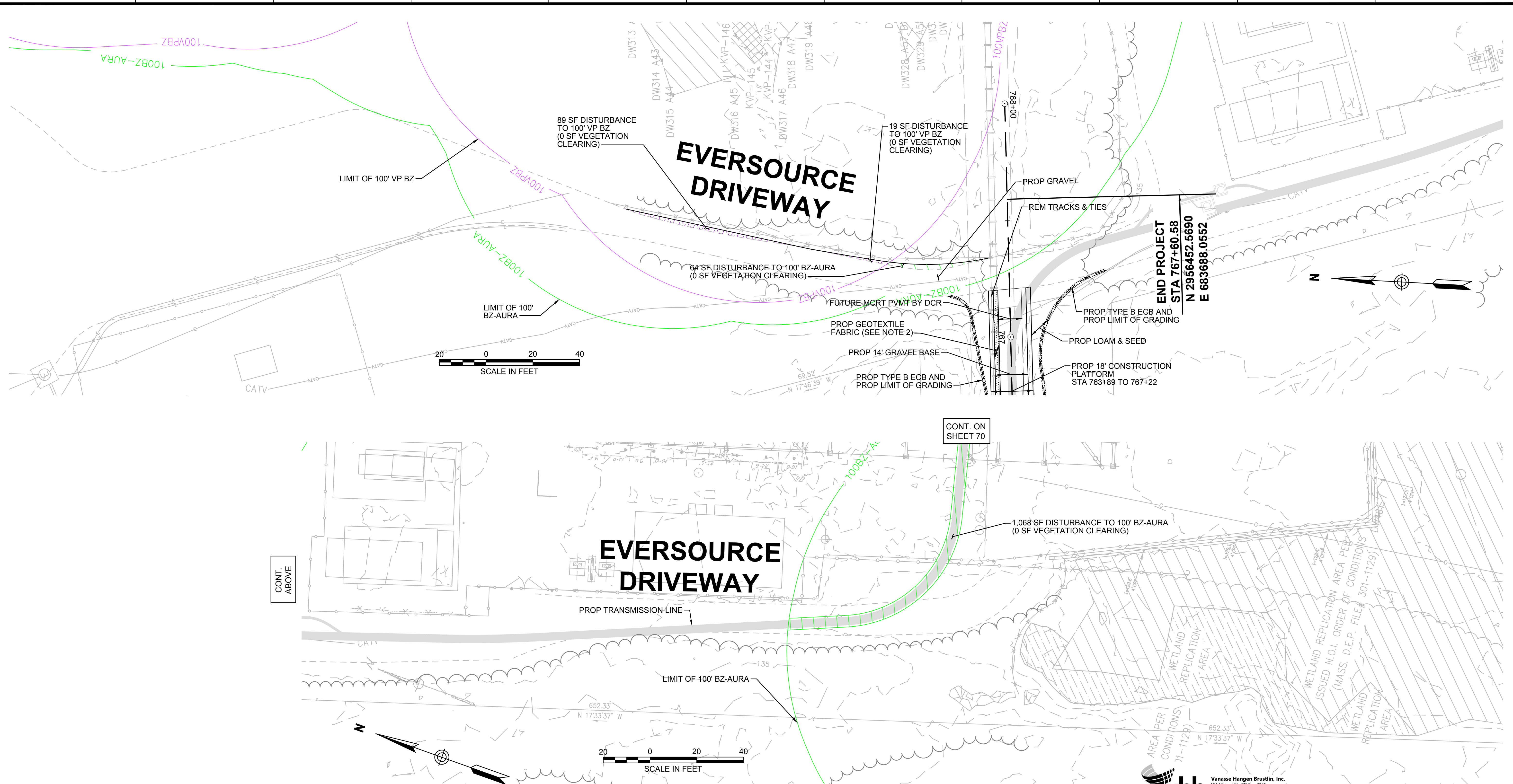
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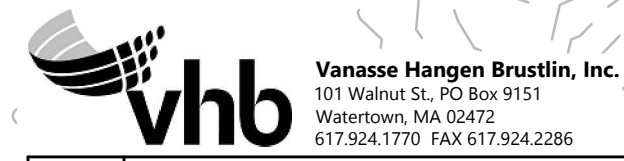
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 124.

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
| HATCH                        | DESCRIPTION   |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |



| N.O.     | DESCRIPTION | BY | DATE | APPR. |
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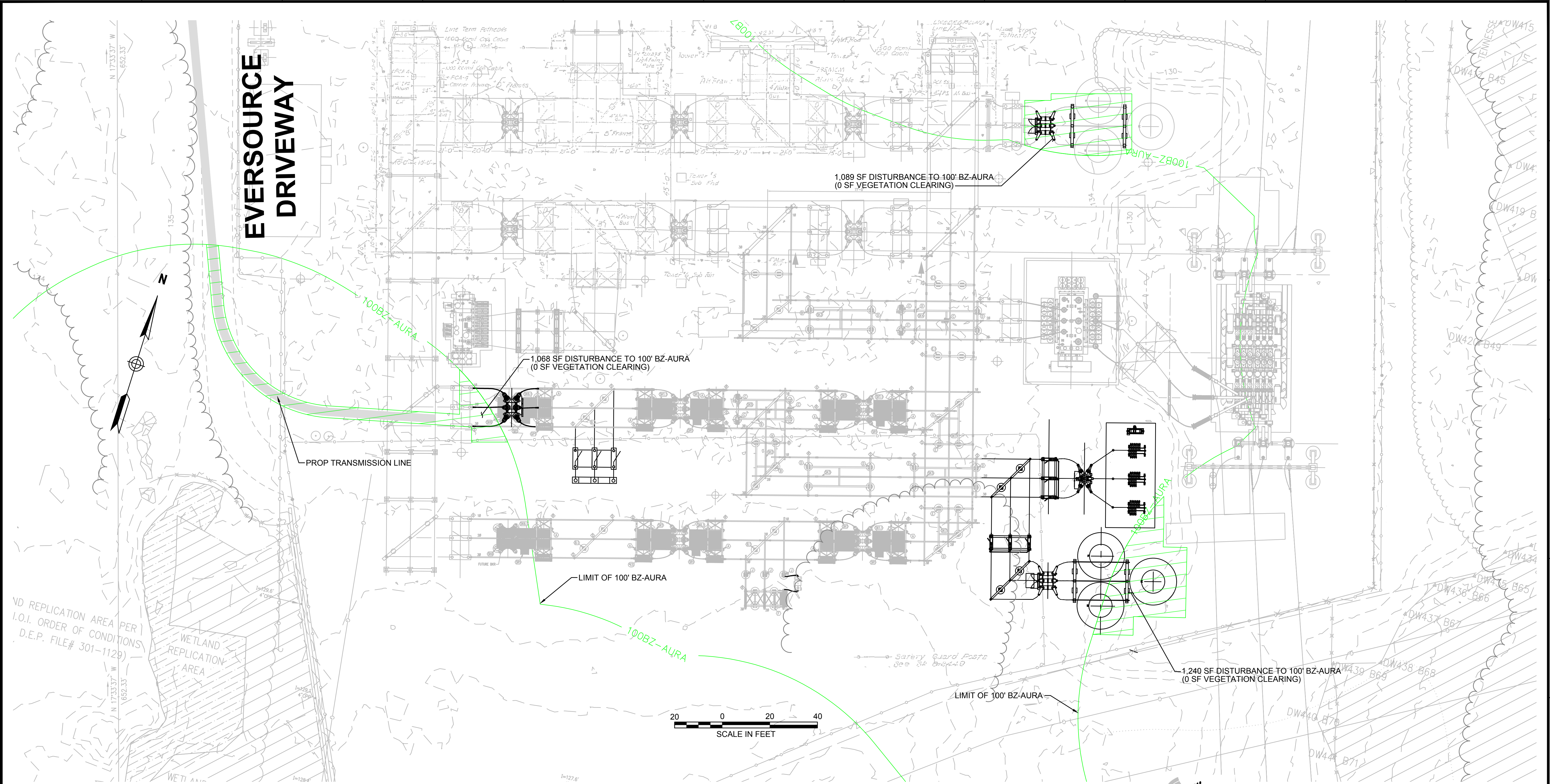
**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

PLAN 69 OF 316

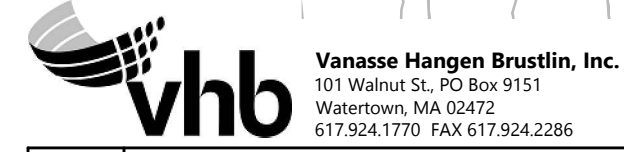
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|-------------------------------|-------------------|-------------|--------------|-------------|-------------|------|
| SCALE: unless noted<br>1"=20' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO. | REV. |
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**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

| ENVIRONMENTAL IMPACTS LEGEND |   |
|------------------------------|---|
| HATCH                        | DESCRIPTION   |
|                              | ISOLATED VEGETATED WETLAND                                |
|                              | BORDERING VEGETATED WETLAND                               |
|                              | LAND UNDER WATER  |
|                              | VERNAL POOL   |
|                              | PERMANENT DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO VEGETATED WETLAND                |
|                              | TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)           |
|                              | TEMPORARY DISTURBANCE TO BANK                             |
|                              | DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)  |
| HATCH                        | DESCRIPTION   |
|                              | DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)     |
|                              | DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA) |
|                              | DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)     |
|                              | DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA) |
|                              | DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)            |
|                              | DISTURBANCE TO BLSF                                       |
|                              | EXISTING TREE LINE  |
|                              | LIMIT OF GRADING  |



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.       |
|---|-------------------|-------------|--------------|-------------|
| <b>REVISION</b>                                   |                   |             |              |             |
| <b>EVERSOURCE</b>                                 |                   |             |              |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |             |
| CONSTRUCTION PLANS                                |                   |             |              |             |
| PLAN 70 OF 316                                    |                   |             |              |             |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       | REV.              |             |              |             |

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| 2-SUDBURY-HUDSON-ACCESS-DRIVE CONSTRUCTION BASELINE DATA |                  |              |             |   |                         |                |              |             |
|--|------------------|--------------|-------------|---|-------------------------|----------------|--------------|-------------|
| NUMBER   | STARTING STATION | NORTHING     | EASTING     | CURVE DATA                                | LINE DATA               | ENDING STATION | NORTHING     | EASTING     |
| L201   | 300+00.00        | 2966202.1444 | 657150.6659 |   | S66°17'15"E<br>569.94'  | 305+69.94      | 2965972.9435 | 657672.4880 |
| C201   | 305+69.94        | 2965972.9435 | 657672.4880 | R=500.00' Δ=2°19'14"<br>L=20.25' T=10.13' |                         | 305+90.19      | 2965965.1773 | 657691.1890 |
| L202   | 305+90.19        | 2965965.1773 | 657691.1890 |   | S68°36'29"E<br>31.19'   | 306+21.38      | 2965953.7996 | 657720.2333 |
| C202   | 306+21.38        | 2965953.7996 | 657720.2333 | R=500.00' Δ=2°17'26"<br>L=19.99' T=10.00' |                         | 306+41.37      | 2965946.1385 | 657738.6949 |
| L203   | 306+41.37        | 2965946.1385 | 657738.6949 |   | S66°19'03"E<br>730.01'  | 313+71.38      | 2965652.9160 | 658407.2248 |
| C203   | 313+71.38        | 2965652.9160 | 658407.2248 | R=500.00' Δ=2°17'26"<br>L=19.99' T=10.00' |                         | 313+91.37      | 2965644.5231 | 658425.3653 |
| L204   | 313+91.37        | 2965644.5231 | 658425.3653 |   | S64°01'36"E<br>29.68'   | 314+21.05      | 2965631.5251 | 658452.0469 |
| C204   | 314+21.05        | 2965631.5251 | 658452.0469 | R=500.00' Δ=2°17'04"<br>L=19.94' T=9.97'  |                         | 314+40.99      | 2965623.1534 | 658470.1391 |
| L205   | 314+40.99        | 2965623.1534 | 658470.1391 |   | S66°18'41"E<br>2288.82' | 337+29.81      | 2964703.5807 | 660566.1091 |
| C205   | 337+29.81        | 2964703.5807 | 660566.1091 | R=500.00' Δ=4°31'29"<br>L=39.49' T=19.75' |                         | 337+69.29      | 2964686.3060 | 660601.6044 |
| L206   | 337+69.29        | 2964686.3060 | 660601.6044 |   | S61°47'12"E<br>11.20'   | 337+80.49      | 2964681.0125 | 660611.4712 |
| C206   | 337+80.49        | 2964681.0125 | 660611.4712 | R=500.00' Δ=4°31'29"<br>L=39.49' T=19.75' |                         | 338+19.98      | 2964663.7378 | 660646.9665 |
| L207   | 338+19.98        | 2964663.7378 | 660646.9665 |   | S66°18'41"E<br>209.72'  | 340+29.70      | 2964579.4775 | 660839.0199 |
| C207   | 340+29.70        | 2964579.4775 | 660839.0199 | R=500.00' Δ=4°17'58"<br>L=37.52' T=18.77' |                         | 340+67.22      | 2964565.7061 | 660873.9108 |
| L208   | 340+67.22        | 2964565.7061 | 660873.9108 |   | S70°36'39"E<br>15.82'   | 340+83.04      | 2964560.4544 | 660888.8329 |
| C208   | 340+83.04        | 2964560.4544 | 660888.8329 | R=500.00' Δ=4°17'58"<br>L=37.52' T=18.77' |                         | 341+20.56      | 2964546.6830 | 660923.7239 |
| L209   | 341+20.56        | 2964546.6830 | 660923.7239 |   | S66°18'41"E<br>359.47'  | 344+80.03      | 2964402.2587 | 661252.9083 |
| C209   | 344+80.03        | 2964402.2587 | 661252.9083 | R=500.00' Δ=4°34'26"<br>L=39.91' T=19.97' |                         | 345+19.95      | 2964387.6974 | 661290.0610 |
| L210   | 345+19.95        | 2964387.6974 | 661290.0610 |   | S70°53'07"E<br>10.12'   | 345+30.07      | 2964384.3829 | 661299.6249 |
| C210   | 345+30.07        | 2964384.3829 | 661299.6249 | R=500.00' Δ=4°34'16"<br>L=39.89' T=19.96' |                         | 345+69.96      | 2964369.8317 | 661336.7545 |
| L211   | 345+69.96        | 2964369.8317 | 661336.7545 |   | S66°18'51"E<br>159.98'  | 347+29.94      | 2964305.5655 | 661483.2559 |
| C211   | 347+29.94        | 2964305.5655 | 661483.2559 | R=500.00' Δ=4°23'59"<br>L=38.39' T=19.21' |                         | 347+68.33      | 2964288.8077 | 661517.7892 |
| L212   | 347+68.33        | 2964288.8077 | 661517.7892 |   | S61°54'53"E<br>13.79'   | 347+82.12      | 2964282.3158 | 661529.9549 |

| 2-SUDBURY-HUDSON-ACCESS-DRIVE CONSTRUCTION BASELINE DATA |                  |              |             |   |                         |                |              |             |
|--|------------------|--------------|-------------|---|-------------------------|----------------|--------------|-------------|
| NUMBER   | STARTING STATION | NORTHING     | EASTING     | CURVE DATA                                | LINE DATA               | ENDING STATION | NORTHING     | EASTING     |
| C212   | 347+82.12        | 2964282.3158 | 661529.9549 | R=500.00' Δ=4°23'48"<br>L=38.37' T=19.19' |                         | 348+20.49      | 2964265.5682 | 661564.4651 |
| L213   | 348+20.49        | 2964265.5682 | 661564.4651 |   | S66°18'41"E<br>1267.77' | 360+88.26      | 2963756.2200 | 662725.4156 |
| C213   | 360+88.26        | 2963756.2200 | 662725.4156 | R=80.00' Δ=16°41'57"<br>L=23.32' T=11.74' |                         | 361+11.58      | 2963743.8947 | 662745.1110 |
| L214   | 361+11.58        | 2963743.8947 | 662745.1110 |   | S49°36'43"E<br>16.84'   | 361+28.41      | 2963732.9851 | 662757.9352 |
| C214   | 361+28.41        | 2963732.9851 | 662757.9352 | R=80.00' Δ=32°54'10"<br>L=45.94' T=23.62' |                         | 361+74.35      | 2963714.6008 | 662799.3503 |
| L215   | 361+74.35        | 2963714.6008 | 662799.3503 |   | S82°30'53"E<br>18.74'   | 361+93.10      | 2963712.1592 | 662817.9331 |
| C215   | 361+93.10        | 2963712.1592 | 662817.9331 | R=80.00' Δ=16°12'13"<br>L=22.62' T=11.39' |                         | 362+15.72      | 2963706.1003 | 662839.6528 |
| L216   | 362+15.72        | 2963706.1003 | 662839.6528 |   | S66°18'41"E<br>417.03'  | 366+32.74      | 2963538.5534 | 663221.5402 |
| C216   | 366+32.74        | 2963538.5534 | 663221.5402 | R=500.00' Δ=5°07'35"<br>L=44.74' T=22.38' |                         | 366+77.48      | 2963522.4353 | 663263.2560 |
| C217   | 366+77.48        | 2963522.4353 | 663263.2560 | R=500.00' Δ=5°07'35"<br>L=44.74' T=22.38' |                         | 367+22.22      | 2963506.3172 | 663304.9718 |
| L217   | 367+22.22        | 2963506.3172 | 663304.9718 |   | S66°18'41"E<br>162.17'  | 368+84.39      | 2963441.1621 | 663453.4789 |
| C218   | 368+84.39        | 2963441.1621 | 663453.4789 | R=500.00' Δ=5°03'10"<br>L=44.09' T=22.06' |                         | 369+28.48      | 2963421.6905 | 663493.0242 |
| C219   | 369+28.48        | 2963421.6905 | 663493.0242 | R=500.00' Δ=4°58'12"<br>L=43.37' T=21.70' |                         | 369+71.85      | 2963402.5097 | 663531.9080 |
| L218   | 369+71.85        | 2963402.5097 | 663531.9080 |   | S66°13'43"E<br>2255.15' | 392+27.00      | 2962493.4828 | 665595.7301 |
| L219   | 392+27.00        | 2962493.4828 | 665595.7301 |   | S66°18'55"E<br>1499.60' | 407+26.60      | 2961891.0882 | 666969.0153 |
| C220   | 407+26.60        | 2961891.0882 | 666969.0153 | R=500.00' Δ=2°19'04"<br>L=20.23' T=10.11' |                         | 407+46.82      | 2961882.5913 | 666987.3676 |
| L220   | 407+46.82        | 2961882.5913 | 666987.3676 |   | S63°59'51"E<br>27.94'   | 407+74.76      | 2961870.3416 | 667012.4806 |
| C221   | 407+74.76        | 2961870.3416 | 667012.4806 | R=500.00' Δ=2°17'42"<br>L=20.03' T=10.01' |                         | 407+94.79      | 2961861.9243 | 667030.6513 |
| L221   | 407+94.79        | 2961861.9243 | 667030.6513 |   | S66°17'33"E<br>730.94'  | 415+25.73      | 2961568.0374 | 667699.9070 |
| C222   | 415+25.73        | 2961568.0374 | 667699.9070 | R=499.59' Δ=7°40'18"<br>L=66.89' T=33.50' |                         | 415+92.62      | 2961545.3163 | 667762.7705 |
| C223   | 415+92.62        | 2961545.3163 | 667762.7705 | R=500.00' Δ=7°45'40"<br>L=67.73' T=33.92' |                         | 416+60.35      | 2961522.2623 | 667826.3998 |
| L222   | 416+60.35        | 2961522.2623 | 667826.3998 |   | S66°12'11"E<br>50.19'   | 417+10.54      | 2961502.0115 | 667872.3213 |



|   |           |             |       |       |                  |
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| NO.   |           | DESCRIPTION | BY    | DATE  | APPR.            |
| REVISION  |           |             |       |       |                  |
| <b>EVERSOURCE</b>                                 |           |             |       |       |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |           |             |       |       |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |           |             |       |       |                  |
| CONSTRUCTION BASELINE DATA                        |           |             |       |       |                  |
| PLAN 72 OF 316                                    |           |             |       |       |                  |
| SCALE: unless noted<br>1"=20'                     | DATE      | DRAWN       | CHK'D | APPR. | DRAWING NO. REV. |
|   | JULY 2020 | MS          | SK    | MS    |                  |

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| 3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA |                  |             |            |  |                           |                |             |            |
|--|------------------|-------------|------------|--|---------------------------|----------------|-------------|------------|
| NUMBER   | STARTING STATION | NORTHING    | EASTING    | CURVE DATA                                   | LINE DATA                 | ENDING STATION | NORTHING    | EASTING    |
| L301   | 500+00.00        | 2961502.012 | 667872.321 |  | S66° 12' 11"E<br>2.28'    | 500+02.28      | 2961501.092 | 667874.407 |
| C301   | 500+02.28        | 2961501.092 | 667874.407 | R=500.00' Δ=7°41'35"<br>L=67.14' T=33.62'    |                           | 500+69.41      | 2961469.967 | 667933.834 |
| C302   | 500+69.41        | 2961469.967 | 667933.834 | R=500.00' Δ=7°41'34"<br>L=67.13' T=33.62'    |                           | 501+36.55      | 2961438.842 | 667993.259 |
| L302   | 501+36.55        | 2961438.842 | 667993.259 |  | S66° 12' 10"E<br>352.24'  | 504+88.78      | 2961296.716 | 668315.548 |
| L303   | 504+88.78        | 2961296.716 | 668315.548 |  | S66° 29' 41"E<br>714.53'  | 512+03.31      | 2961011.736 | 668970.789 |
| L304   | 512+03.31        | 2961011.736 | 668970.789 |  | S65° 47' 36"E<br>355.56'  | 515+58.87      | 2960865.948 | 669295.083 |
| C303   | 515+58.87        | 2960865.948 | 669295.083 | R=2000.00' Δ=2°02'02"<br>L=70.99' T=35.50'   |                           | 516+29.86      | 2960837.994 | 669360.337 |
| L305   | 516+29.86        | 2960837.994 | 669360.337 |  | S67° 49' 38"E<br>62.53'   | 516+92.40      | 2960814.394 | 669418.247 |
| C304   | 516+92.40        | 2960814.394 | 669418.247 | R=5000.00' Δ=2°28'08"<br>L=215.46' T=107.75' |                           | 519+07.86      | 2960728.805 | 669615.962 |
| L306   | 519+07.86        | 2960728.805 | 669615.962 |  | S65° 21' 30"E<br>56.37'   | 519+64.23      | 2960705.304 | 669667.194 |
| C305   | 519+64.23        | 2960705.304 | 669667.194 | R=5000.00' Δ=1°03'24"<br>L=92.20' T=46.10'   |                           | 520+56.43      | 2960667.637 | 669751.349 |
| L307   | 520+56.43        | 2960667.637 | 669751.349 |  | S66° 24' 53"E<br>3804.53' | 558+60.96      | 2959145.398 | 673238.076 |
| L308   | 558+60.96        | 2959145.398 | 673238.076 |  | S67° 25' 05"E<br>114.60'  | 559+75.56      | 2959101.392 | 673343.887 |
| L309   | 559+75.56        | 2959101.392 | 673343.887 |  | S66° 25' 05"E<br>324.74'  | 563+00.30      | 2958971.476 | 673641.508 |
| L310   | 563+00.30        | 2958971.476 | 673641.508 |  | S66° 18' 26"E<br>3665.57' | 599+65.87      | 2957498.529 | 676998.123 |
| C306   | 599+65.87        | 2957498.529 | 676998.123 | R=500.00' Δ=3°38'00"<br>L=31.71' T=15.86'    |                           | 599+97.58      | 2957486.717 | 677027.541 |
| L311   | 599+97.58        | 2957486.717 | 677027.541 |  | S69° 56' 26"E<br>84.99'   | 600+82.57      | 2957457.567 | 677107.371 |
| C307   | 600+82.57        | 2957457.567 | 677107.371 | R=500.00' Δ=3°38'42"<br>L=31.81' T=15.91'    |                           | 601+14.37      | 2957445.714 | 677136.884 |
| L312   | 601+14.37        | 2957445.714 | 677136.884 |  | S66° 17' 43"E<br>47.14'   | 601+61.52      | 2957426.761 | 677180.049 |
| C308   | 601+61.52        | 2957426.761 | 677180.049 | R=500.00' Δ=3°13'05"<br>L=28.08' T=14.05'    |                           | 601+89.60      | 2957414.756 | 677205.432 |
| L313   | 601+89.60        | 2957414.756 | 677205.432 |  | S63° 04' 38"E<br>68.56'   | 602+58.16      | 2957383.711 | 677266.565 |
| C309   | 602+58.16        | 2957383.711 | 677266.565 | R=500.00' Δ=3°13'05"<br>L=28.08' T=14.05'    |                           | 602+86.25      | 2957371.705 | 677291.948 |
| L314   | 602+86.25        | 2957371.705 | 677291.948 |  | S66° 17' 43"E<br>14.06'   | 603+00.31      | 2957366.053 | 677304.821 |



| N O.  | DESCRIPTION       | BY          | DATE           | APP R.       |
|---|-------------------|-------------|----------------|--------------|
| <b>REVISION</b>                                   |                   |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CONSTRUCTION BASELINE DATA                        |                   |             |                |              |
| PLAN 73 OF 310                                    |                   |             |                |              |
| SCALE: unless noted<br>1"=20'                     | DATE<br>JULY 2020 | DRAWN<br>MS | CHECK D.<br>SK | APP R.<br>MS |
| DRAWING NO.                                       | REV.              |             |                |              |

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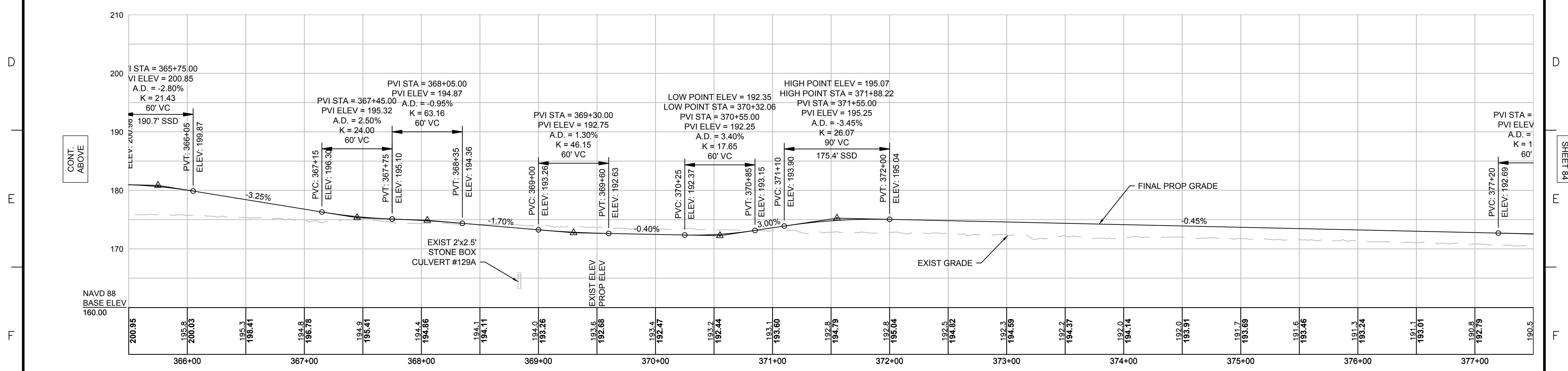
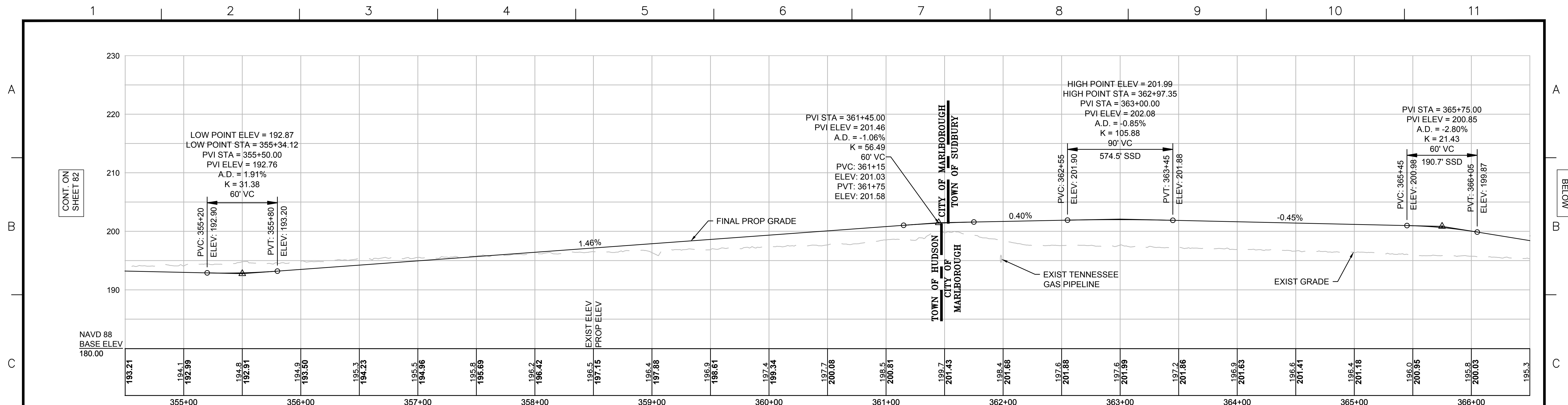
| 4-SUDBURY-HUDSON-ACCESS-DRIVE (1) CONSTRUCTION BASELINE DATA |                  |              |             |   |                        |                |              |             |
|--|------------------|--------------|-------------|---|------------------------|----------------|--------------|-------------|
| NUMBER   | STARTING STATION | NORTHING     | EASTING     | CURVE DATA                                    | LINE DATA              | ENDING STATION | NORTHING     | EASTING     |
| L437   | 700+00.00        | 2957366.0527 | 677304.8213 |   | S66°14'03"E<br>231.13' | 702+31.13      | 2957272.9091 | 677516.3488 |
| C425   | 702+31.13        | 2957272.9091 | 677516.3488 | R=3750.00' Δ=12°25'19"<br>L=813.02' T=408.11' |                        | 710+44.14      | 2956867.4824 | 678219.2284 |
| L440   | 710+44.14        | 2956867.4824 | 678219.2284 |   | S53°48'44"E<br>149.49' | 711+93.63      | 2956779.2208 | 678339.8770 |
| C431   | 711+93.63        | 2956779.2208 | 678339.8770 | R=500.00' Δ=9°37'46"<br>L=84.03' T=42.12'     |                        | 712+77.66      | 2956735.5245 | 678411.5389 |
| C432   | 712+77.66        | 2956735.5245 | 678411.5389 | R=500.00' Δ=7°39'17"<br>L=66.80' T=33.45'     |                        | 713+44.46      | 2956701.7603 | 678469.1214 |
| L431   | 713+44.46        | 2956701.7603 | 678469.1214 |   | S55°47'13"E<br>137.37' | 714+81.84      | 2956624.5189 | 678582.7225 |
| L439   | 714+81.84        | 2956624.5189 | 678582.7225 |   | S56°18'15"E<br>352.06' | 718+33.90      | 2956429.2013 | 678875.6350 |
| C428   | 718+33.90        | 2956429.2013 | 678875.6350 | R=2150.00' Δ=7°27'00"<br>L=279.56' T=139.98'  |                        | 721+13.46      | 2956289.6424 | 679117.6429 |
| L435   | 721+13.46        | 2956289.6424 | 679117.6429 |   | S63°45'15"E<br>104.16' | 722+17.62      | 2956243.5785 | 679211.0686 |
| C429   | 722+17.62        | 2956243.5785 | 679211.0686 | R=1000.00' Δ=9°53'27"<br>L=172.63' T=86.53'   |                        | 723+90.25      | 2956180.9486 | 679371.7031 |
| L436   | 723+90.25        | 2956180.9486 | 679371.7031 |   | S73°38'42"E<br>171.77' | 725+62.02      | 2956132.5797 | 679536.5242 |
| C430   | 725+62.02        | 2956132.5797 | 679536.5242 | R=975.00' Δ=8°08'34"<br>L=138.56' T=69.40'    |                        | 727+00.58      | 2956103.1249 | 679671.8017 |
| L432   | 727+00.58        | 2956103.1249 | 679671.8017 |   | S81°47'16"E<br>414.21' | 731+14.79      | 2956043.9591 | 680081.7601 |
| C426   | 731+14.79        | 2956043.9591 | 680081.7601 | R=1450.00' Δ=25°44'54"<br>L=651.62' T=331.41' |                        | 737+66.41      | 2956096.4751 | 680725.7736 |
| L433   | 737+66.41        | 2956096.4751 | 680725.7736 |   | N72°27'50"E<br>398.71' | 741+65.12      | 2956216.6094 | 681105.9571 |
| C427   | 741+65.12        | 2956216.6094 | 681105.9571 | R=1400.00' Δ=12°28'35"<br>L=304.86' T=153.03' |                        | 744+69.98      | 2956276.2156 | 681404.3155 |
| L434   | 744+69.98        | 2956276.2156 | 681404.3155 |   | N84°56'25"E<br>284.93' | 747+54.91      | 2956301.3441 | 681688.1339 |
| L438   | 763+88.36        | 2956423.2838 | 683316.9838 |   | N85°29'15"E<br>411.64' | 768+00.00      | 2956455.6704 | 683727.3522 |



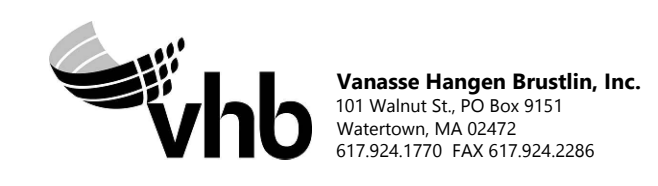
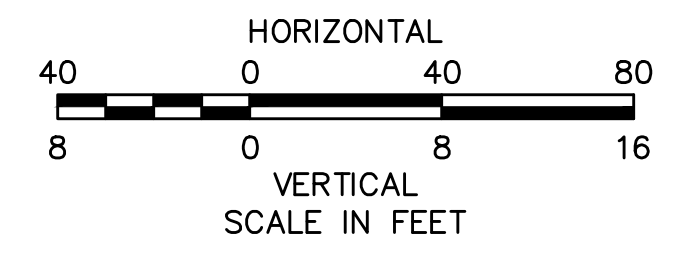
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|---|-----------|-------------|----------|-------|-------------|-------|
| NO.   |           | DESCRIPTION |          | BY    | DATE        | APPR. |
| REVISION  |           |             |          |       |             |       |
| <b>EVERSOURCE</b>                                 |           |             |          |       |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |           |             |          |       |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |           |             |          |       |             |       |
| CONSTRUCTION BASELINE DATA                        |           |             |          |       |             |       |
| PLAN 74 OF 316                                    |           |             |          |       |             |       |
| SCALE: unless noted<br>1"=20'                     | DATE      | DRAWN       | CHECK D. | APPR. | DRAWING NO. | REV.  |
|   | JULY 2020 | MS          | SK       | MS    |             |       |

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**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.



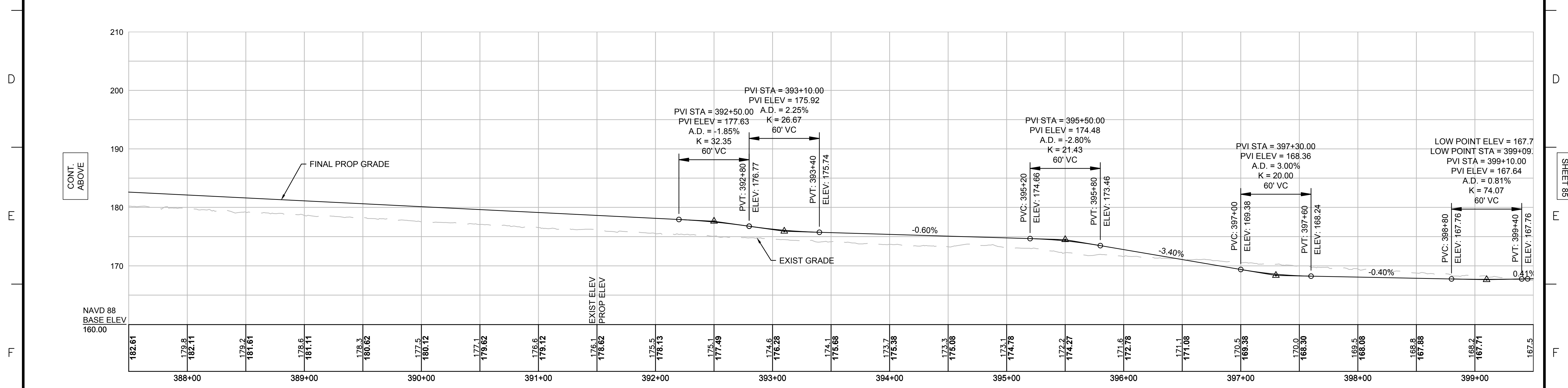
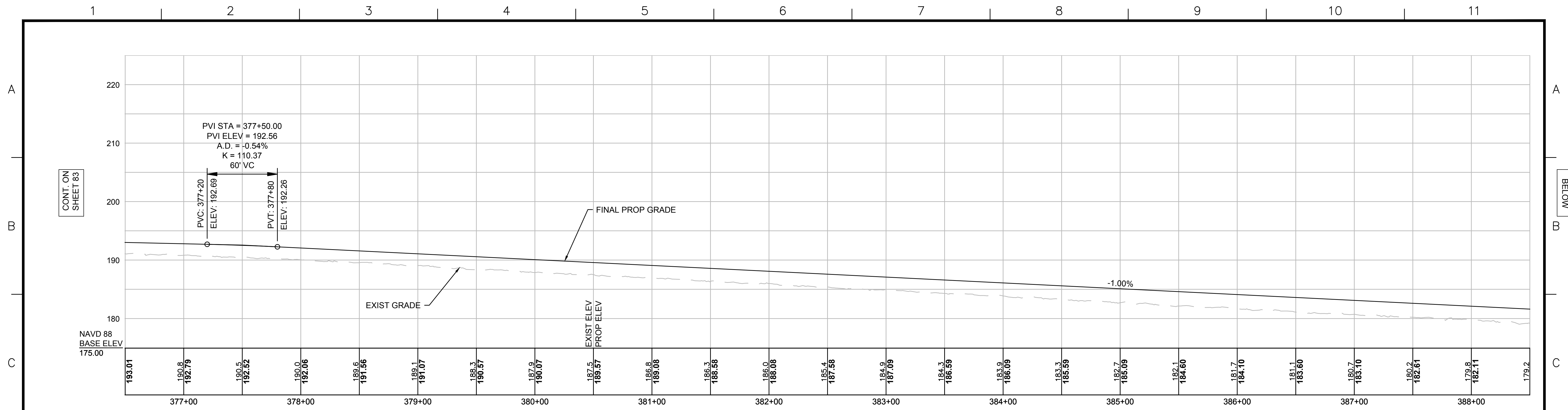
| NO.   |  | DESCRIPTION | BY    | DATE  | APPR. |
|---|--|-------------|-------|-------|-------|
| <b>REVISION</b>                                   |  |             |       |       |       |
| <b>EVERSOURCE</b>                                 |  |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |             |       |       |       |
| PROFILE   |  |             |       |       |       |
| PLAN 83 OF 316                                    |  |             |       |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |  | DATE        | DRAWN | CHK'D | APPR. |
|   |  | JULY 2020   | MS    | SK    | MES   |
| DRAWING NO.                                       |  |             |       | REV.  |       |
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CONT. ON  
SHEET 82

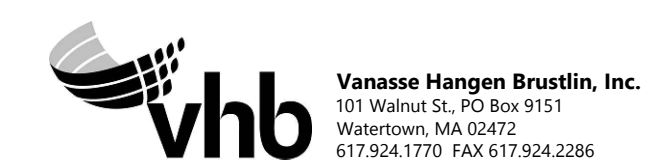
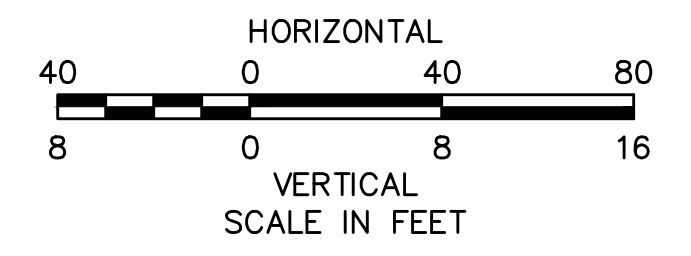
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**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.



| NO.   |  | DESCRIPTION | BY    | DATE  | APPR. |
|---|--|-------------|-------|-------|-------|
| <b>REVISION</b>                                   |  |             |       |       |       |
| <b>EVERSOURCE</b>                                 |  |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |             |       |       |       |
| PROFILE   |  |             |       |       |       |
| PLAN 84 OF 316                                    |  |             |       |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |  | DATE        | DRAWN | CHK'D | APPR. |
|   |  | JULY 2020   | MS    | SK    | MES   |
| DRAWING NO.                                       |  |             |       | REV.  |       |
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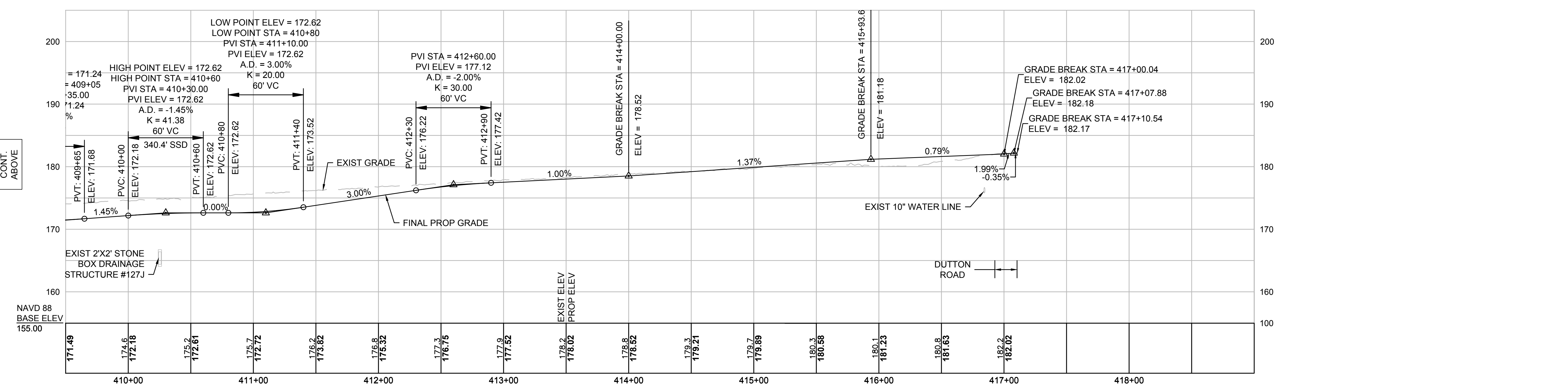
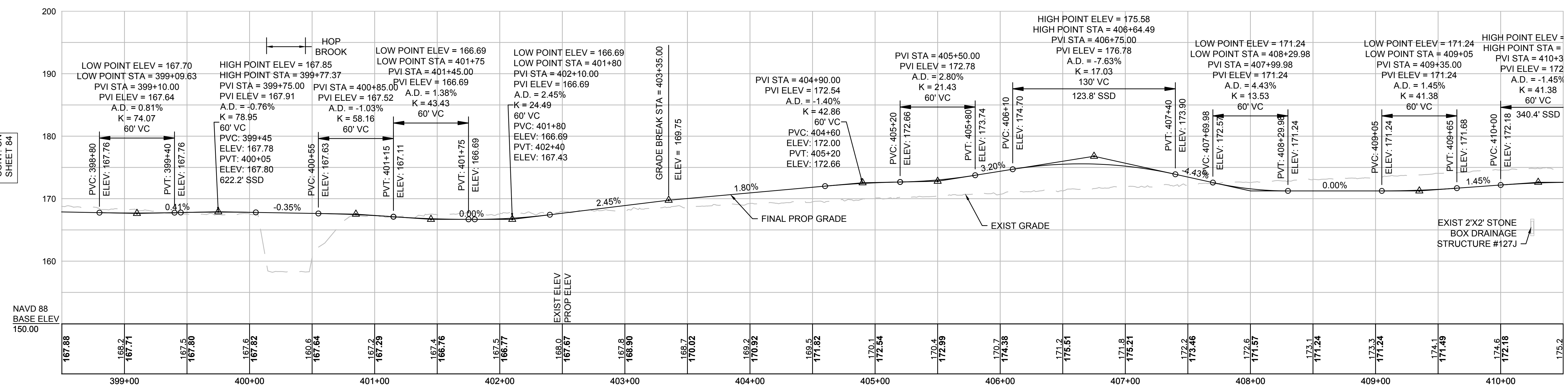
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CONT. ON SHEET 84

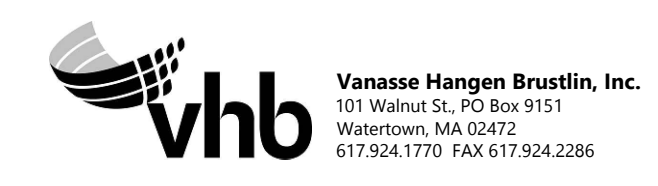
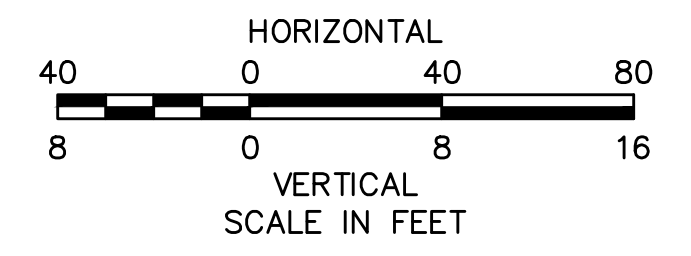
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**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.



| REVISION |             |    |      |
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| N.O.     | DESCRIPTION | BY | DATE |
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# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 PROFILE

PLAN 85 OF 316

|   |                            |              |             |                 |          |
|---|----------------------------|--------------|-------------|-----------------|----------|
| SCALE: unless noted<br>H: 1"=40' V: 1"=8' | DATE DRAWN<br>JULY 2020 MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO.<br> | REV.<br> |
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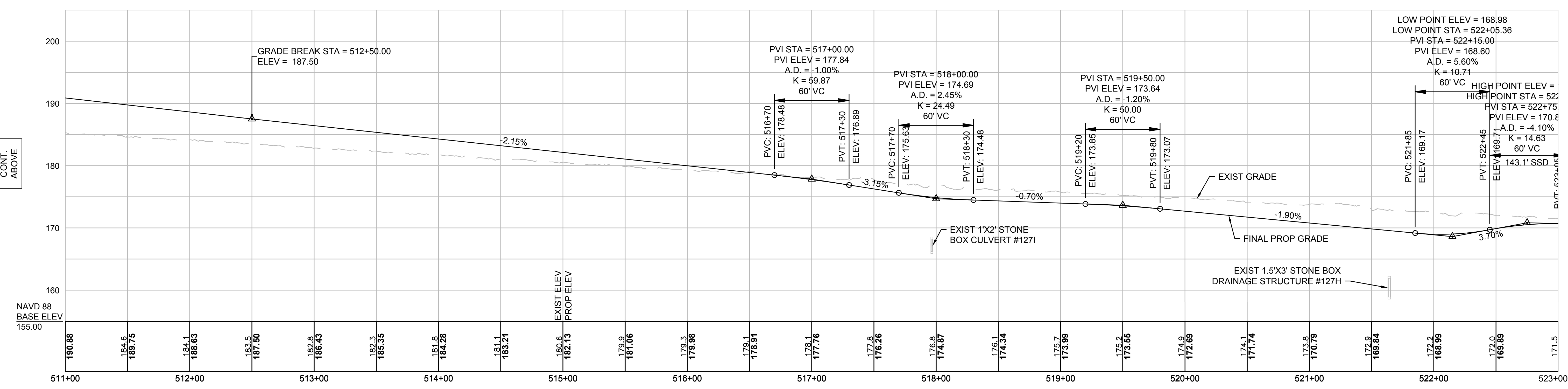
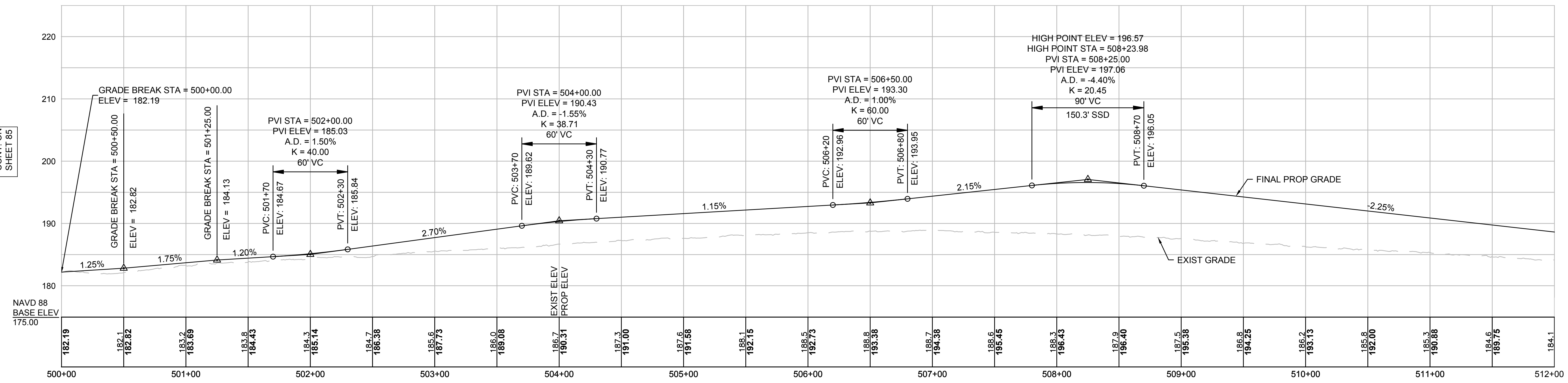
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CONT. ON SHEET 85

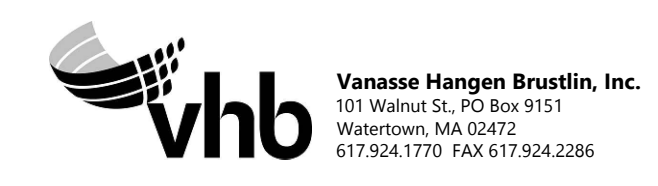
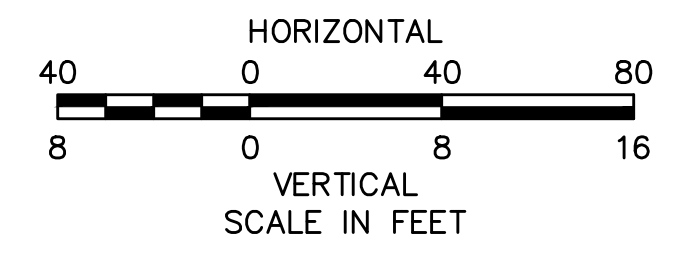
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CONT. ON SHEET 87



**NOTE:**  
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.



| REVISION |             |    |      |
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| N.O.     | DESCRIPTION | BY | DATE |
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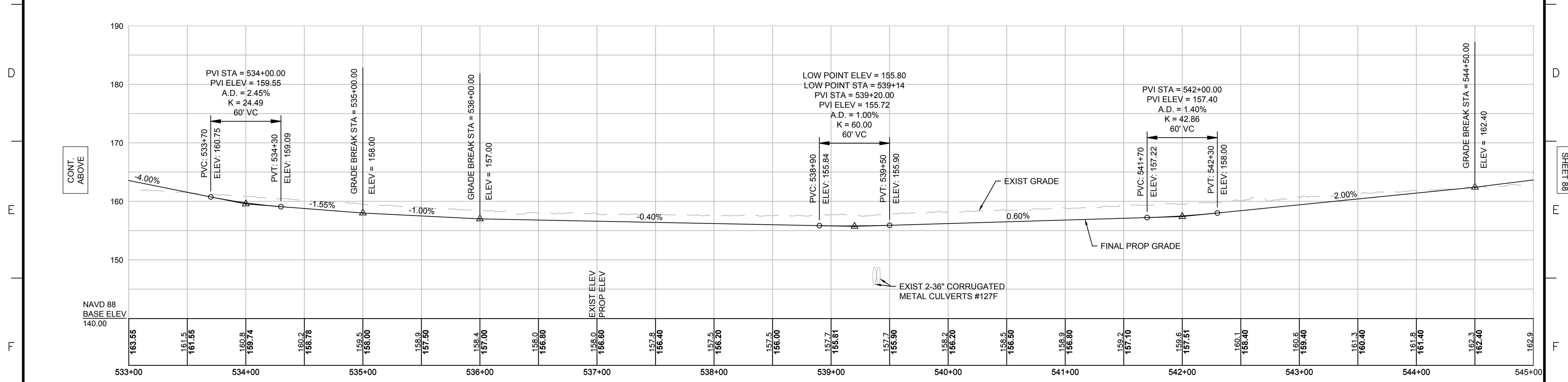
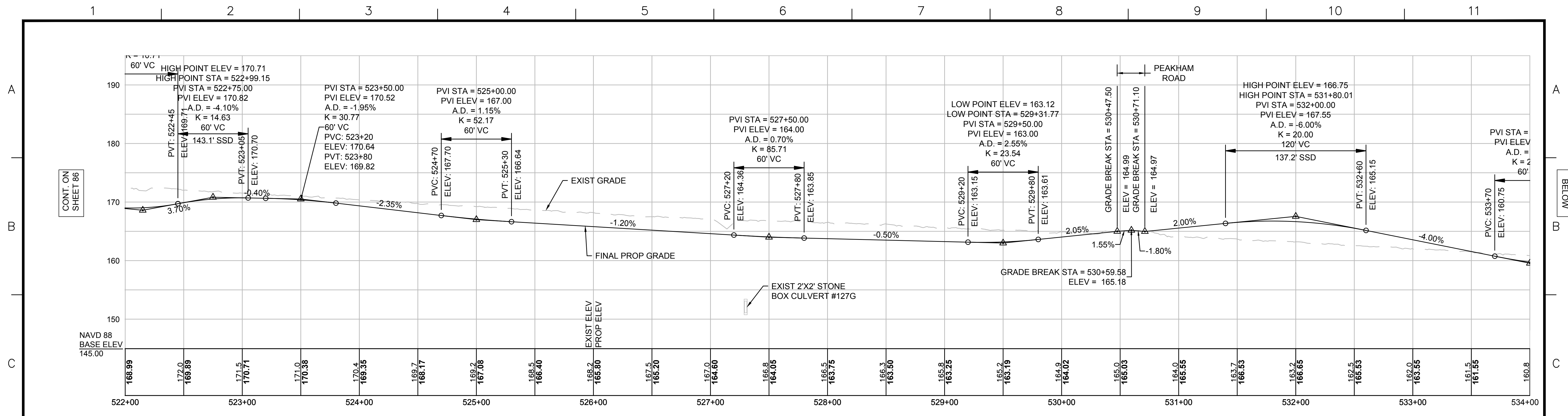
# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
PROFILE

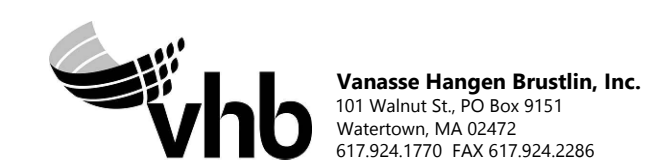
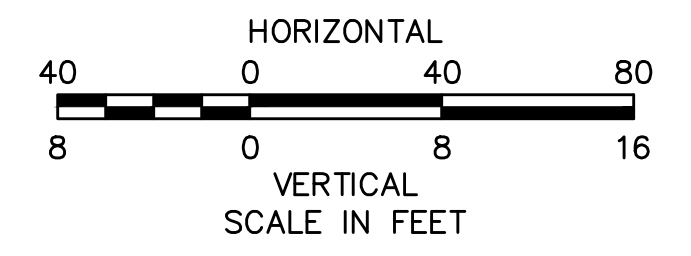
PLAN 86 OF 316

|   |                            |              |             |                 |          |
|---|----------------------------|--------------|-------------|-----------------|----------|
| SCALE: unless noted<br>H: 1"=40' V: 1"=8' | DATE DRAWN<br>JULY 2020 MS | CHK'D.<br>SK | APPR.<br>MS | DRAWING NO.<br> | REV.<br> |
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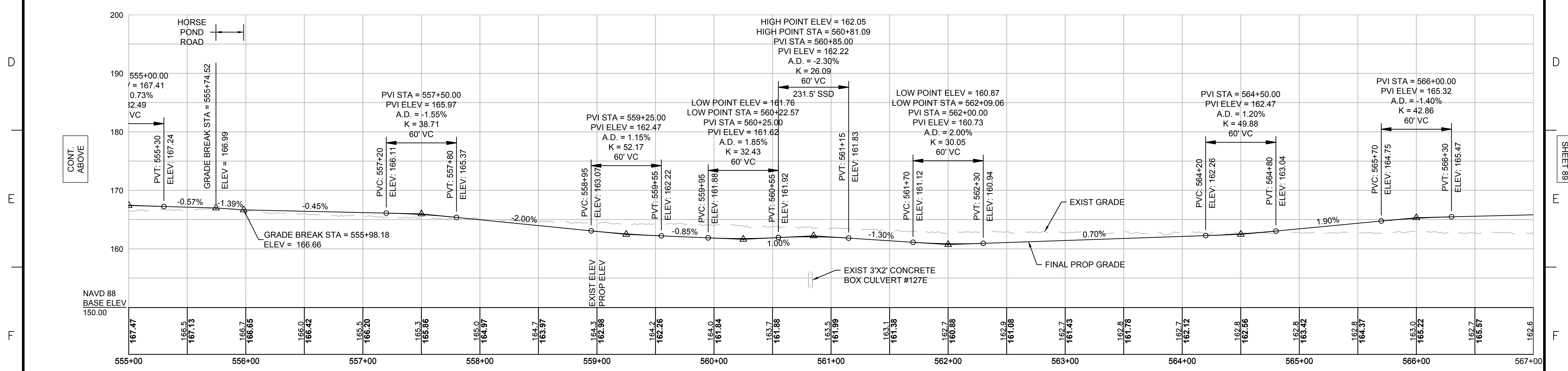
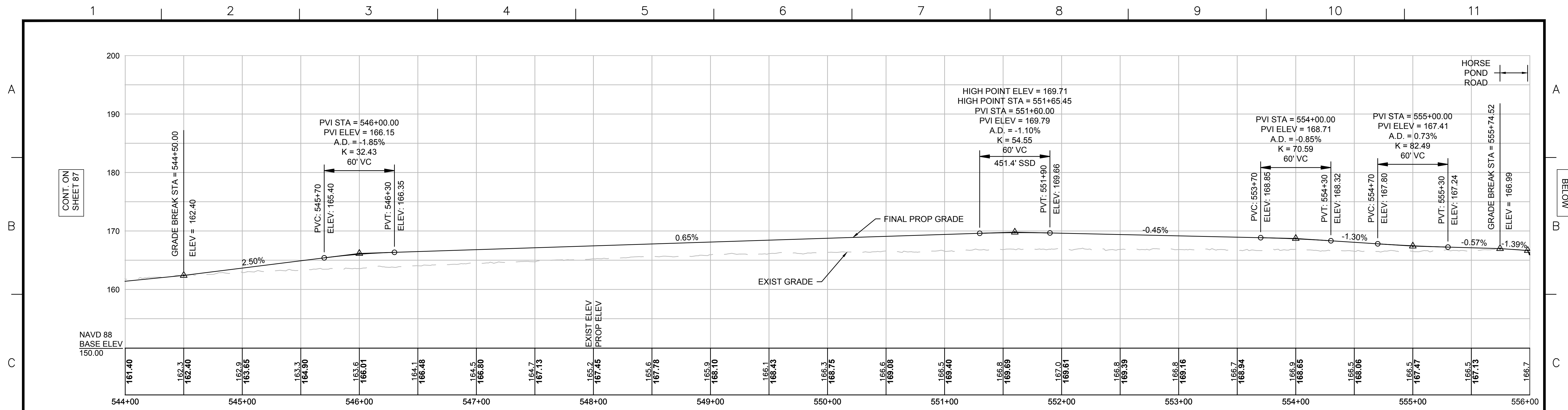
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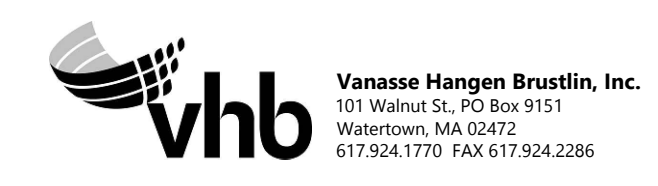
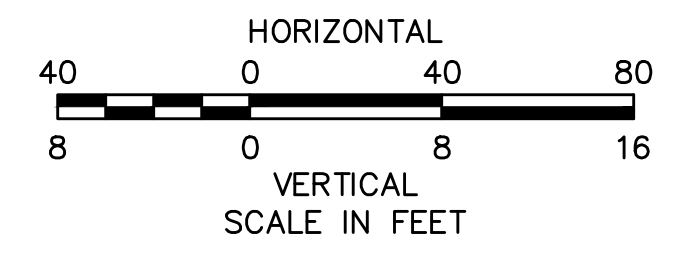
**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.



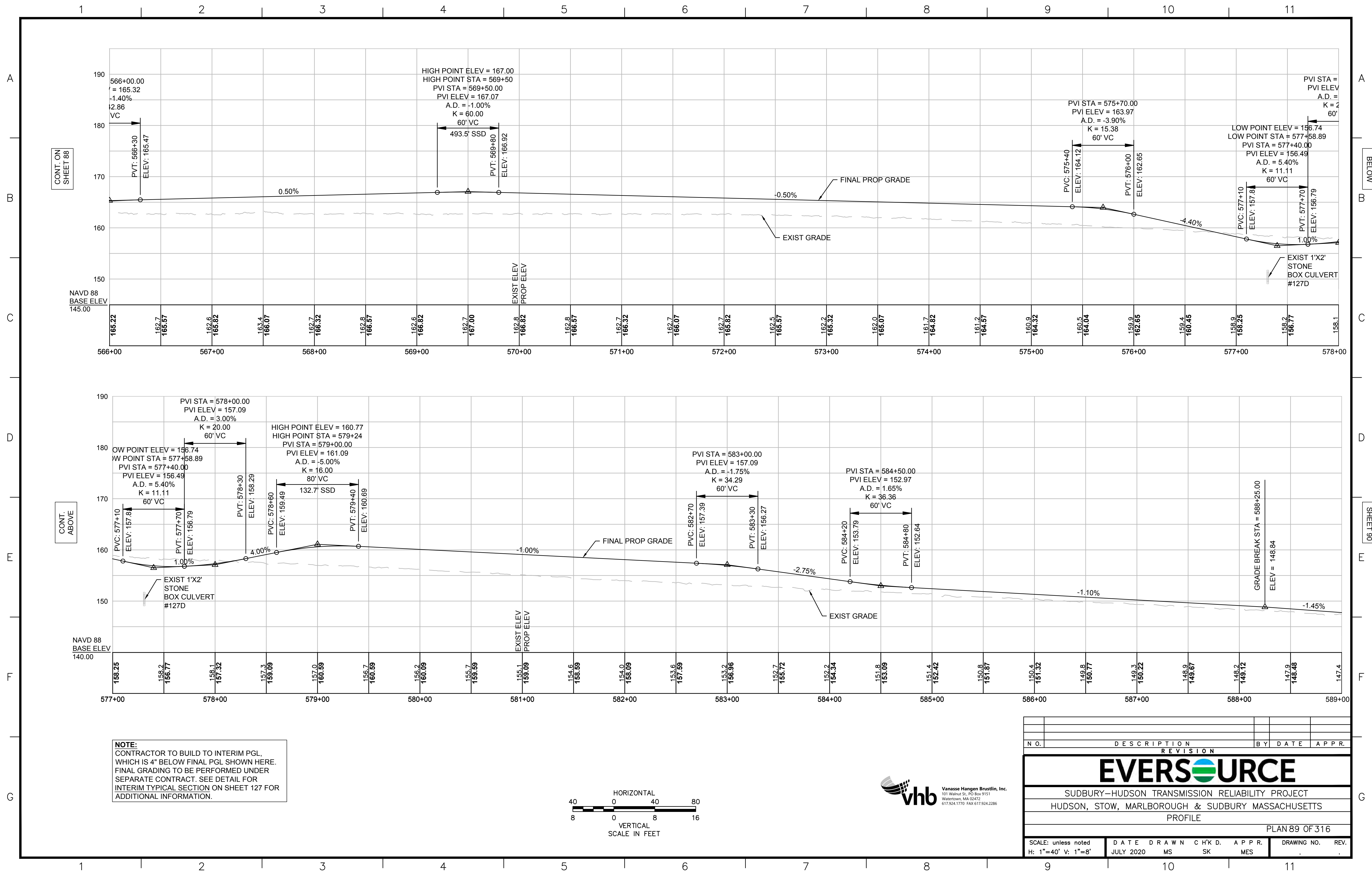
| N.O.  | DESCRIPTION | BY        | DATE  | APPR. |
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|   | REVISION    |           |       |       |
| <b>EVERSOURCE</b>                                 |             |           |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |           |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |           |       |       |
| PROFILE   |             |           |       |       |
| PLAN 87 OF 316                                    |             |           |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |             | DATE      | DRAWN | CHK'D |
|   |             | JULY 2020 | MS    | SK    |
|   |             | APPR.     | MES   |       |
| DRAWING NO.                                       | REV.        |           |       |       |
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**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.



| N.O.  | DESCRIPTION | BY        | DATE  | APPR. |
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| REVISION  |             |           |       |       |
| <b>EVERSOURCE</b>                                 |             |           |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |           |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |           |       |       |
| PROFILE   |             |           |       |       |
| PLAN 88 OF 316                                    |             |           |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |             | DATE      | DRAWN | CHK'D |
|   |             | JULY 2020 | MS    | SK    |
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| DRAWING NO.                                       |             | REV.      |       |       |



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

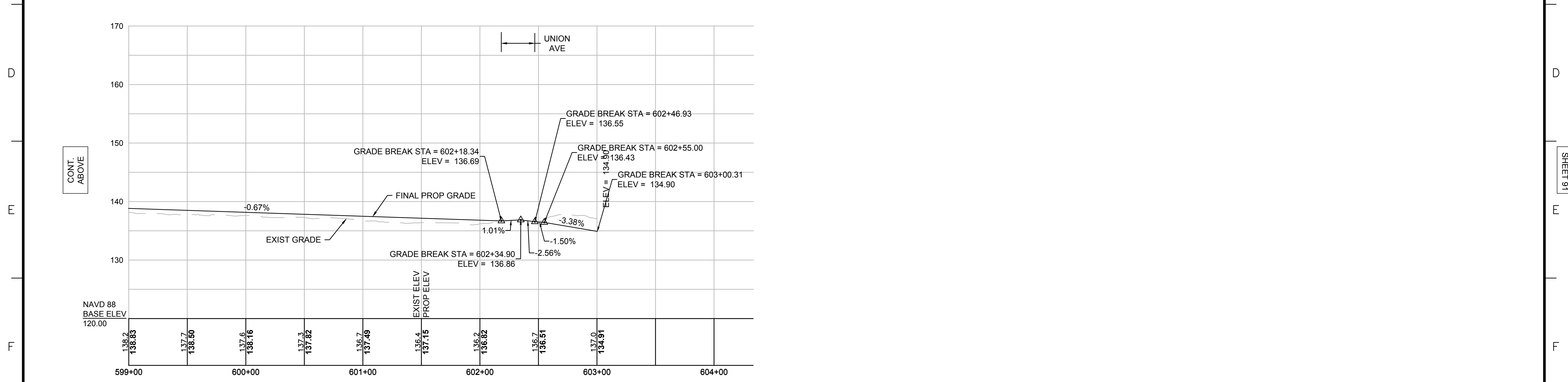
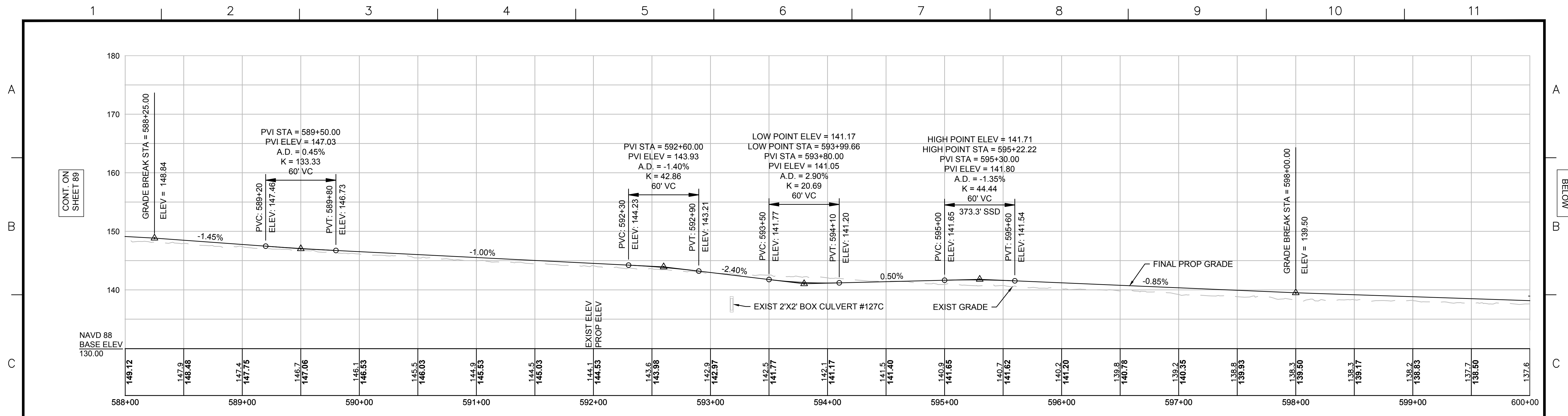
**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 PROFILE

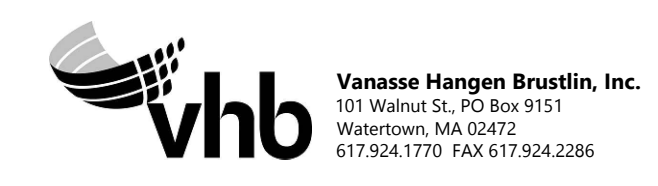
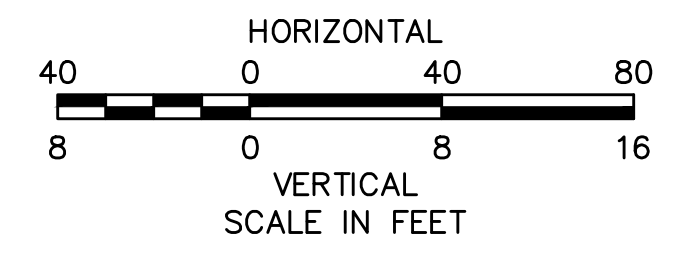
PLAN 89 OF 316

|   |                            |              |              |                     |
|---|----------------------------|--------------|--------------|---------------------|
| SCALE: unless noted<br>H: 1"=40' V: 1"=8' | DATE DRAWN<br>JULY 2020 MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO.<br>REV. |
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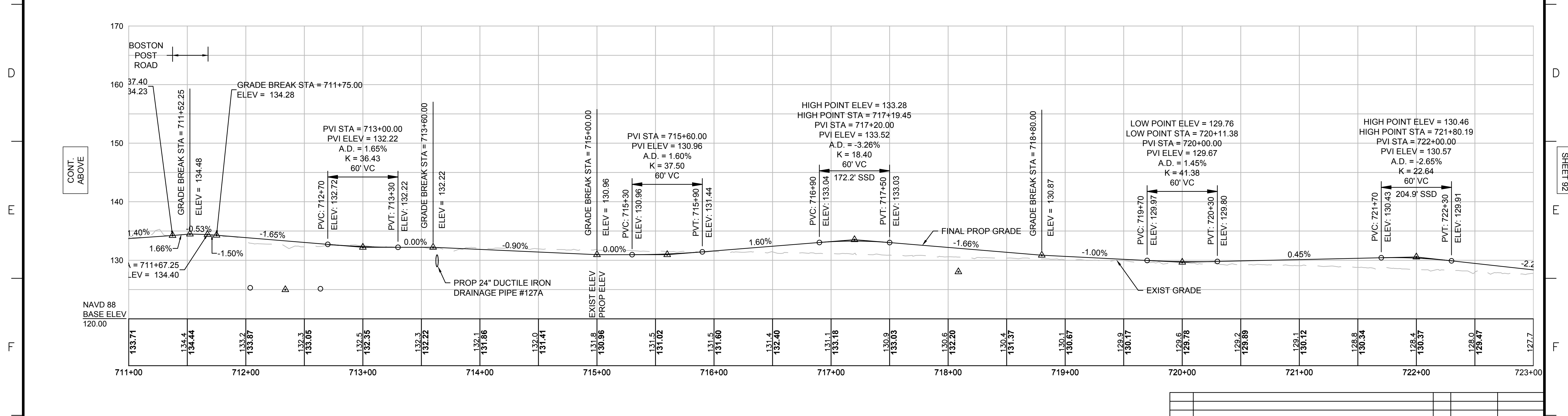
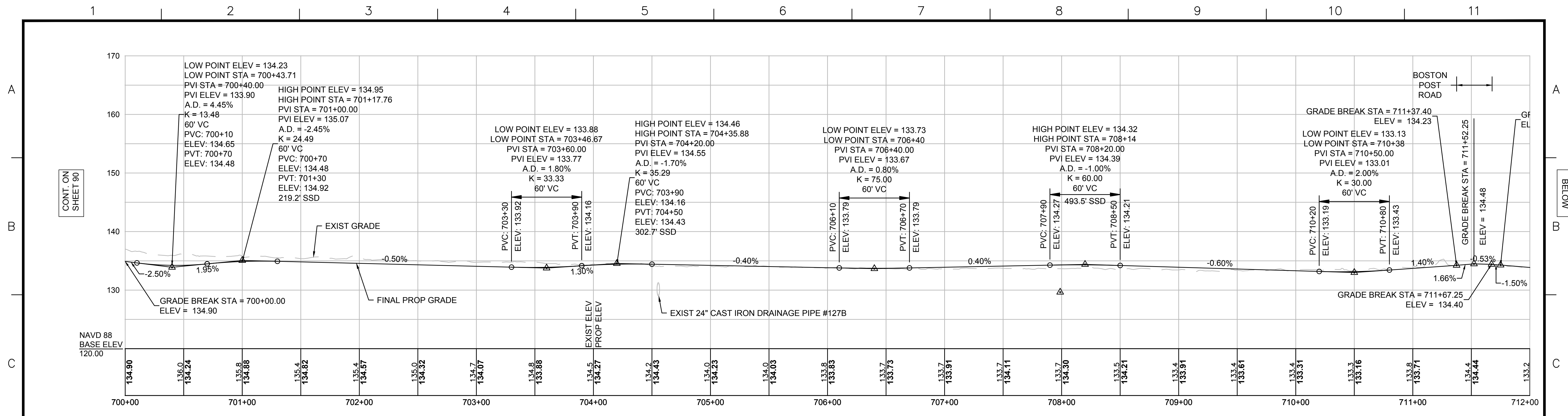


**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.

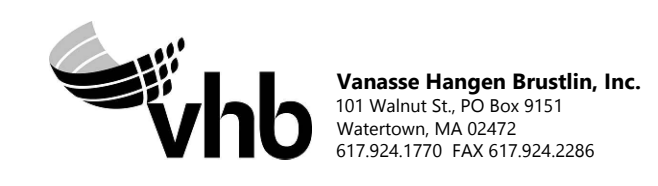
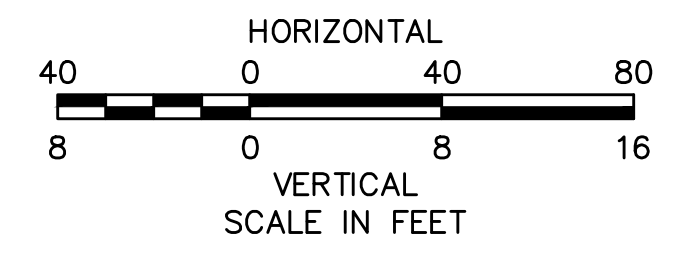


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| <b>EVERSOURCE</b>                                 |                   |             |             |                 |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |             |                 |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |             |                 |             |       |
| PROFILE   |                   |             |             |                 |             |       |
| PLAN 90 OF 316                                    |                   |             |             |                 |             |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D<br>SK | A.P.P.R.<br>MES | DRAWING NO. | REV.  |





**NOTE:**  
CONTRACTOR TO BUILD TO INTERIM PGL,  
WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
FINAL GRADING TO BE PERFORMED UNDER  
SEPARATE CONTRACT. SEE DETAIL FOR  
INTERIM TYPICAL SECTION ON SHEET 127 FOR  
ADDITIONAL INFORMATION.



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
PROFILE  
PLAN 91 OF 316

|   |                            |              |              |                     |
|---|----------------------------|--------------|--------------|---------------------|
| SCALE: unless noted<br>H: 1"=40' V: 1"=8' | DATE DRAWN<br>JULY 2020 MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO.<br>REV. |
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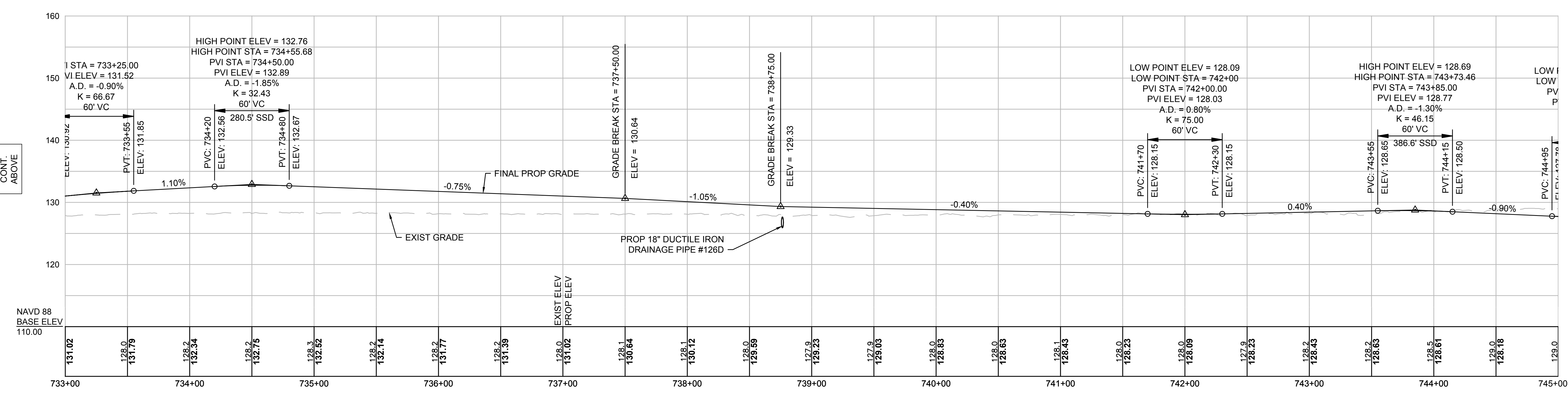
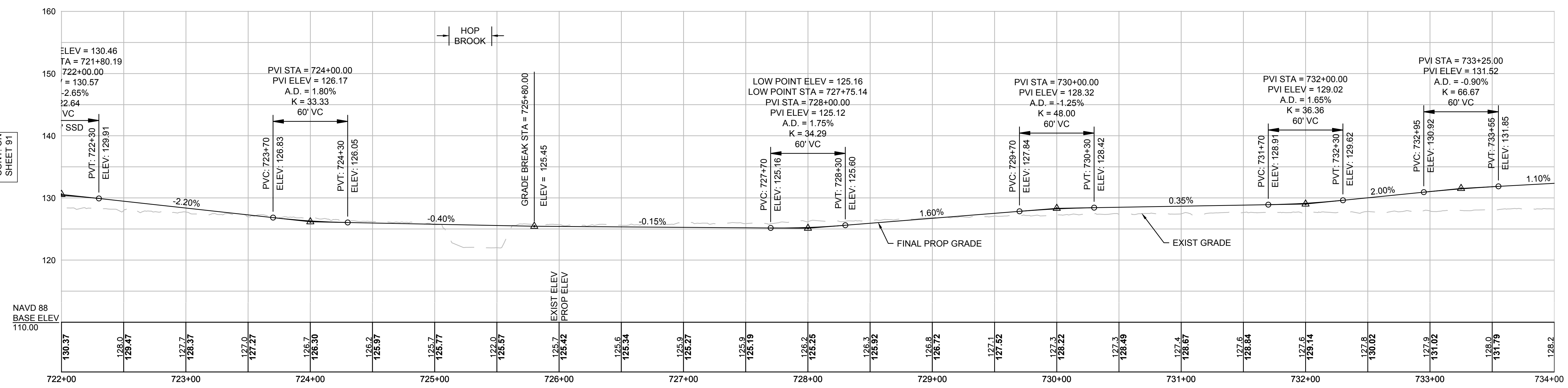
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CONT. ON SHEET 91

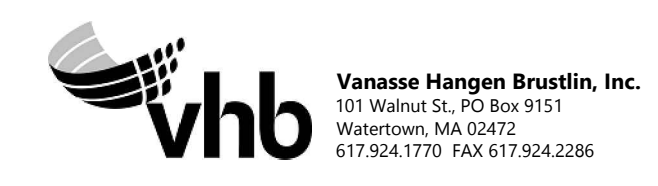
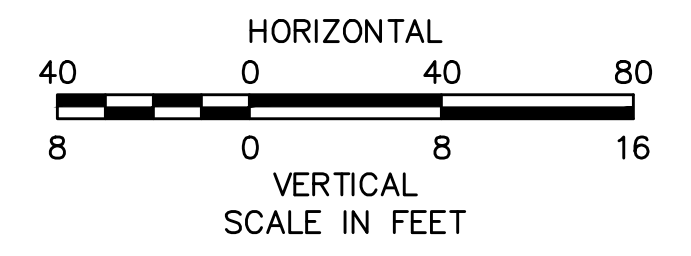
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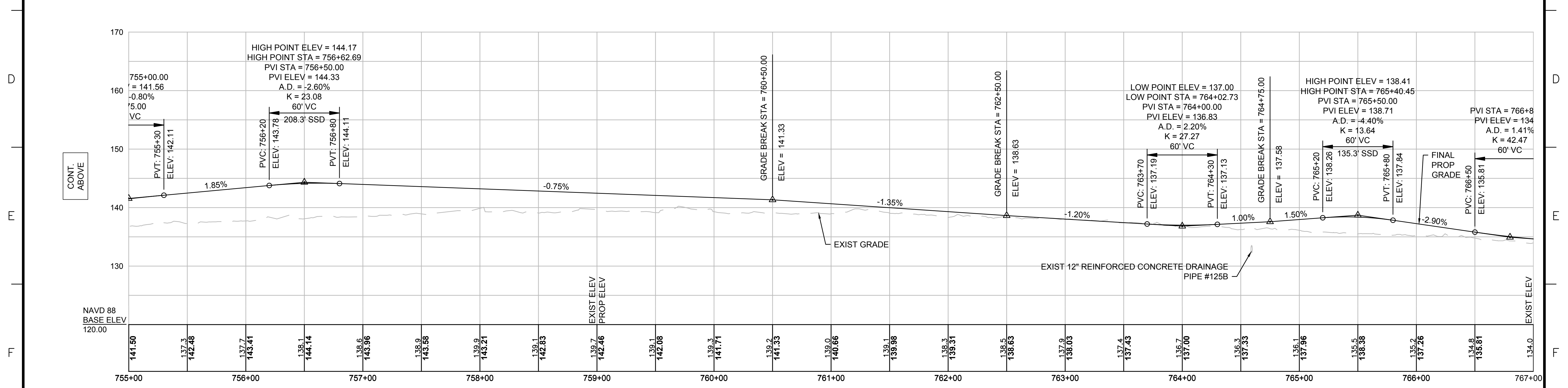
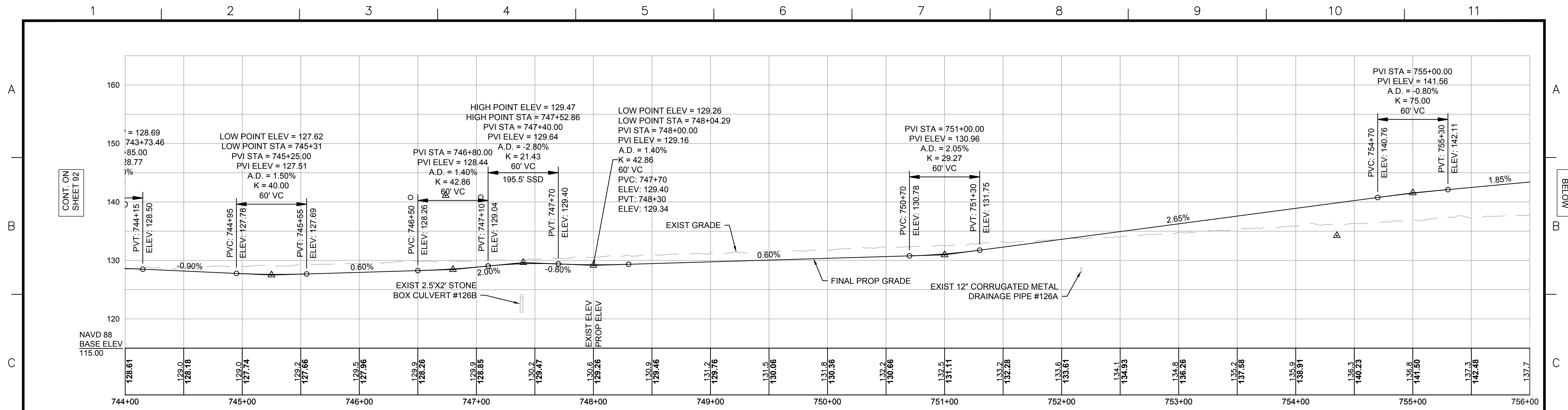


**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
 FINAL GRADING TO BE PERFORMED UNDER  
 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.

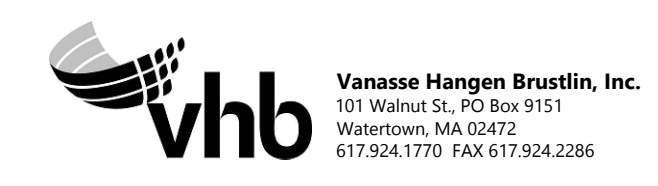
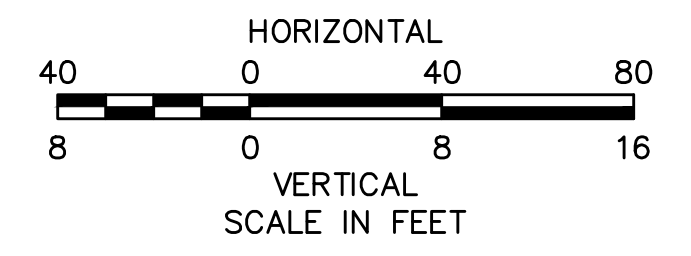


| N.O.  | DESCRIPTION | BY        | DATE  | APPR. |
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| <b>REVISION</b>                                   |             |           |       |       |
| <b>EVERSOURCE</b>                                 |             |           |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |           |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |           |       |       |
| PROFILE   |             |           |       |       |
| PLAN 92 OF 316                                    |             |           |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |             | DATE      | DRAWN | CHK'D |
|   |             | JULY 2020 | MS    | SK    |
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**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL,  
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.  
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 SEPARATE CONTRACT. SEE DETAIL FOR  
 INTERIM TYPICAL SECTION ON SHEET 127 FOR  
 ADDITIONAL INFORMATION.



| N.O.  | DESCRIPTION | BY        | DATE  | APPR. |
|---|-------------|-----------|-------|-------|
| REVISION  |             |           |       |       |
| <b>EVERSOURCE</b>                                 |             |           |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |           |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |           |       |       |
| PROFILE   |             |           |       |       |
| PLAN 93 OF 316                                    |             |           |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |             | DATE      | DRAWN | CHK'D |
|   |             | JULY 2020 | MS    | SK    |
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| DRAWING NO.                                       | REV.        |           |       |       |
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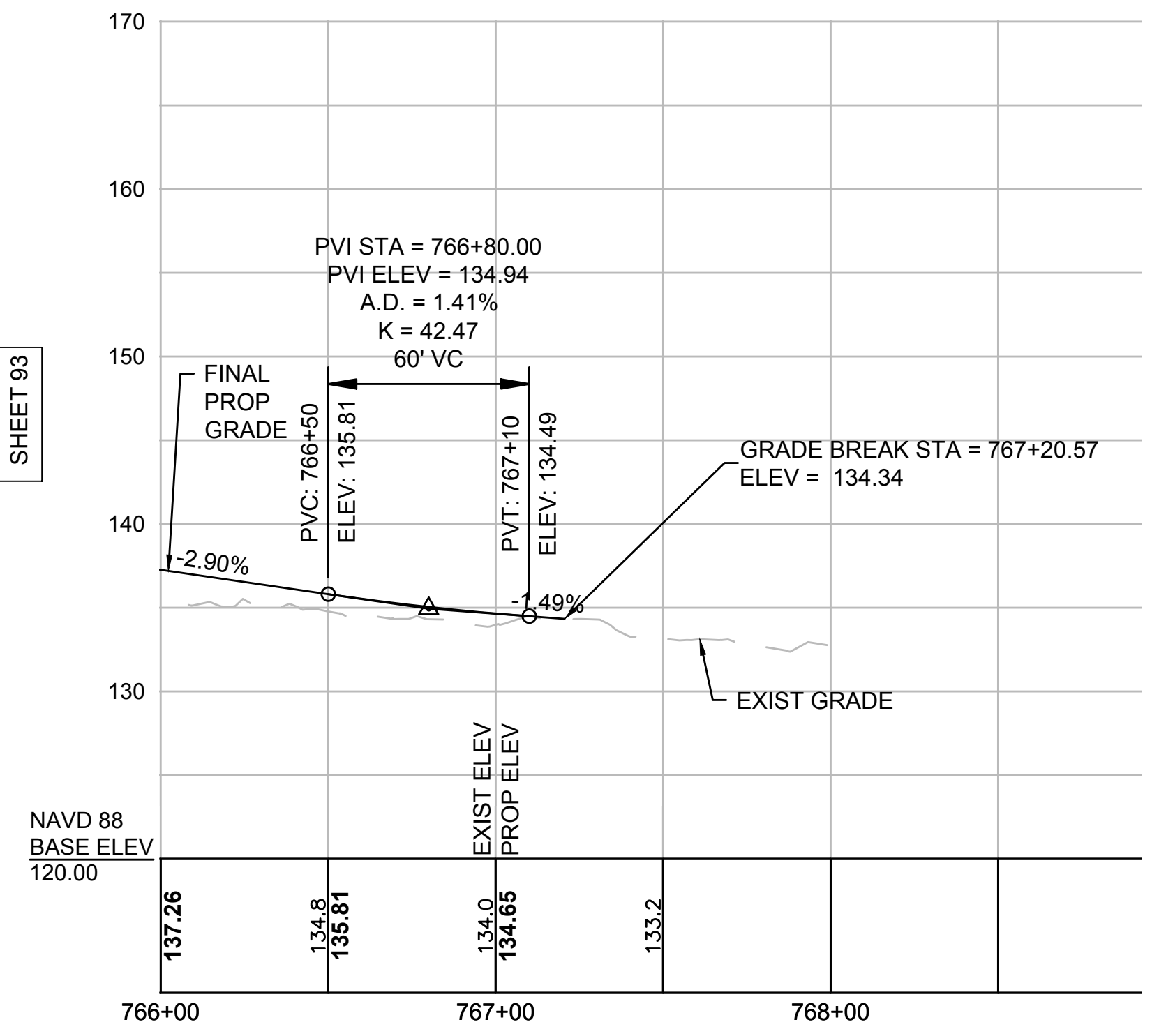
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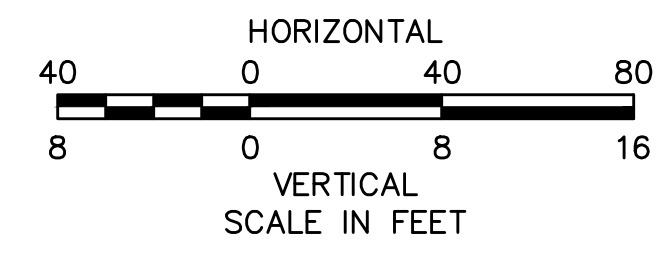
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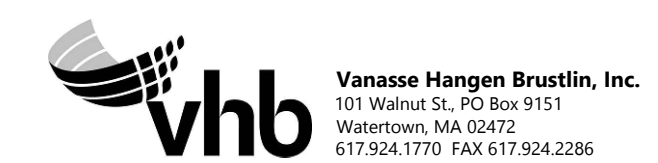
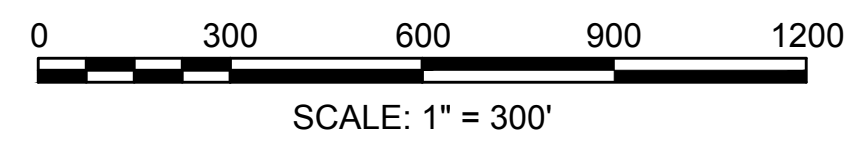
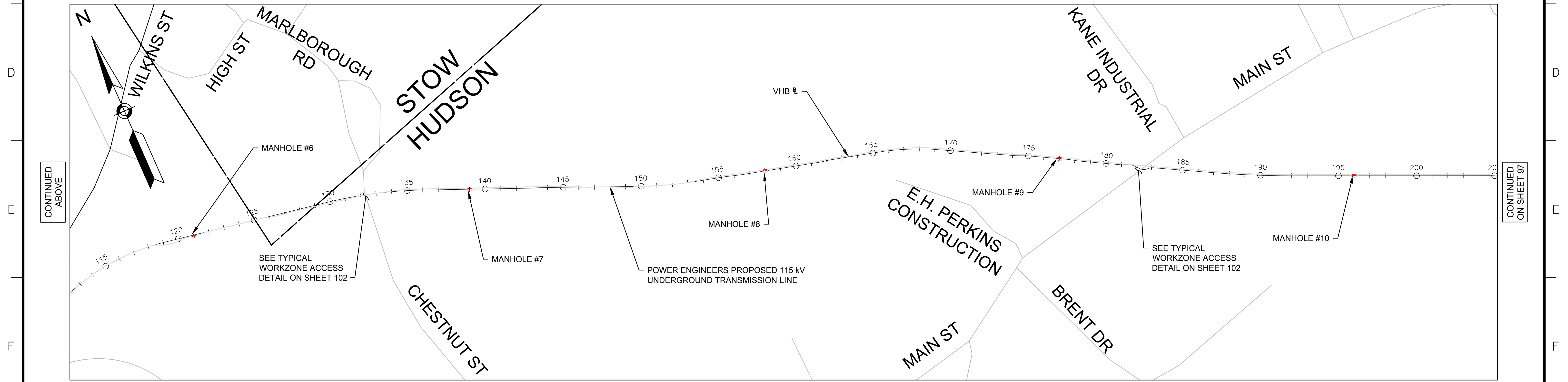
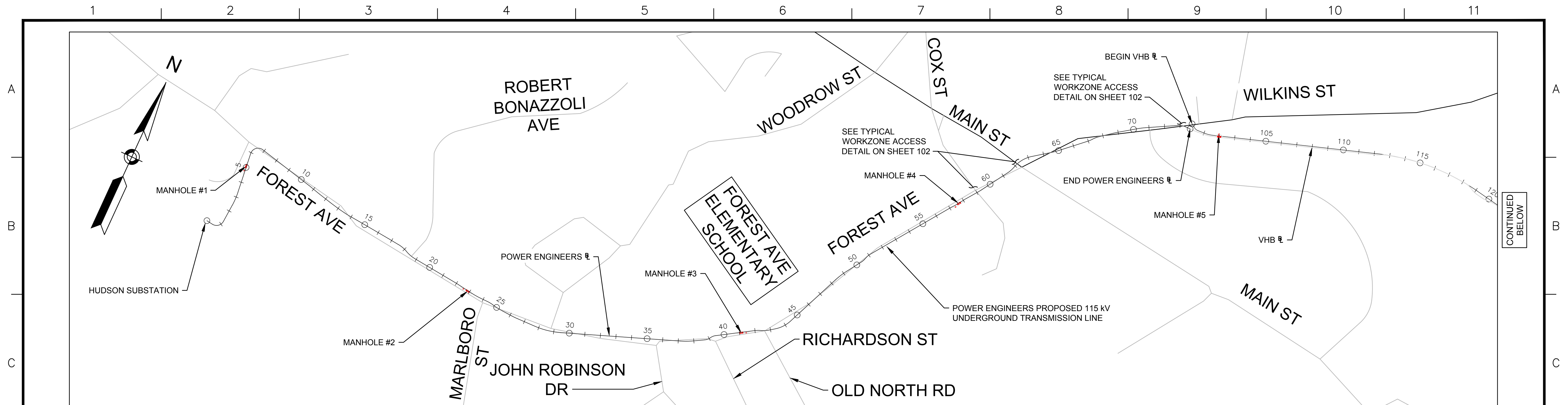


**NOTE:**  
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 127 FOR ADDITIONAL INFORMATION.

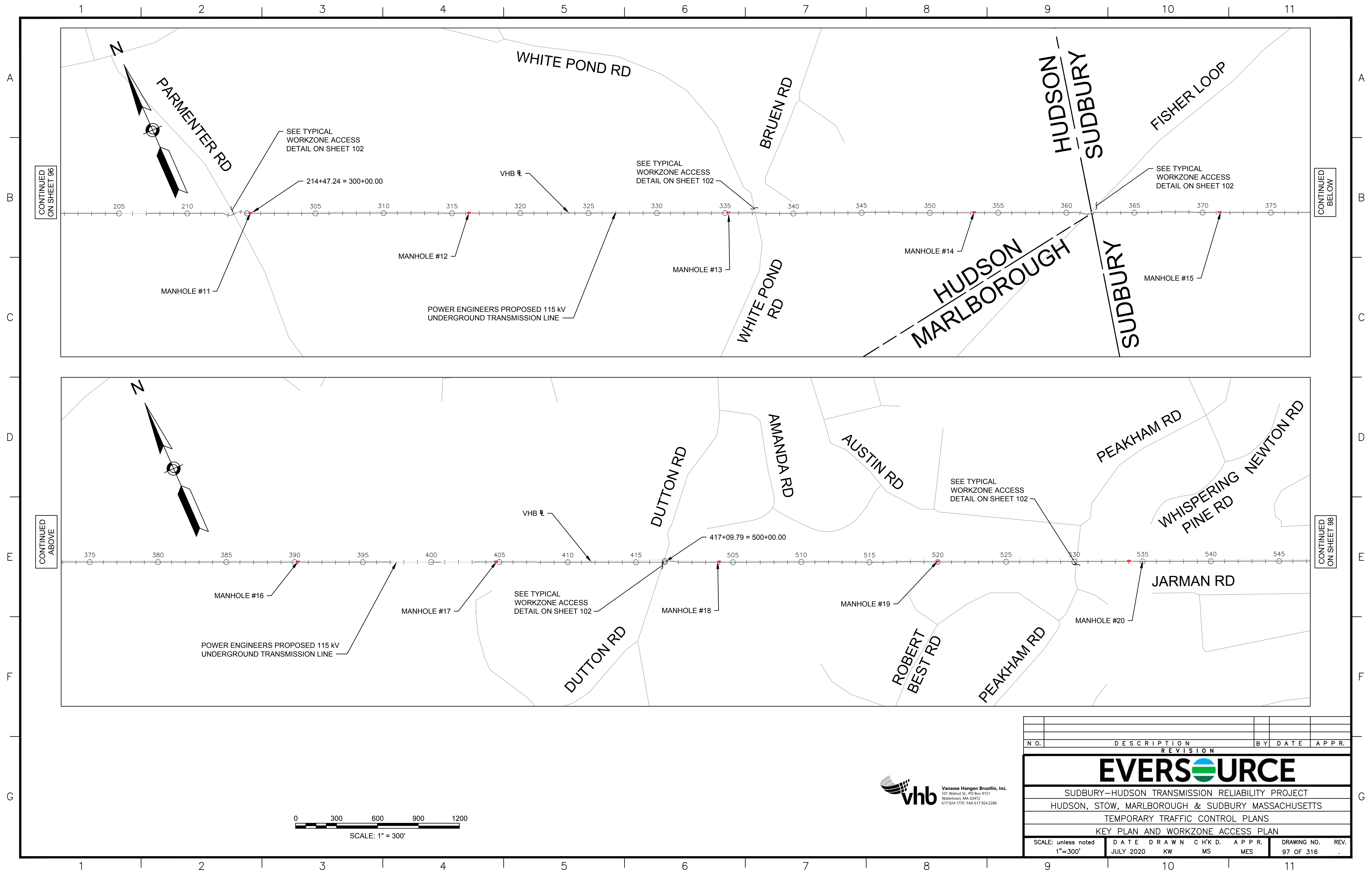


| N O.  | DESCRIPTION | BY        | DATE  | APPR. |
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| REVISION  |             |           |       |       |
| <b>EVERSOURCE</b>                                 |             |           |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |           |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |           |       |       |
| PROFILE   |             |           |       |       |
| PLAN 94 OF 316                                    |             |           |       |       |
| SCALE: unless noted<br>H: 1"=40' V: 1"=8'         |             | DATE      | DRAWN | CHK'D |
|   |             | JULY 2020 | MS    | SK    |
|   |             |           |       | APPR. |
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| N.O.  | DESCRIPTION | BY    | DATE   | APPR. |
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| REVISION  |             |       |        |       |
| <b>EVERSOURCE</b>                                 |             |       |        |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |        |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |        |       |
| TEMPORARY TRAFFIC CONTROL PLANS                   |             |       |        |       |
| KEY PLAN AND WORKZONE ACCESS PLAN                 |             |       |        |       |
| SCALE: unless noted<br>1"=300'                    | DATE        | DRAWN | CHK'D. | APPR. |
|   | JULY 2020   | KW    | MS     | MES   |
| DRAWING NO.                                       | REV.        |       |        |       |
| 96 OF 316   | .           |       |        |       |

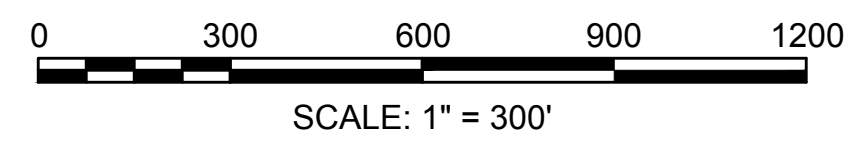


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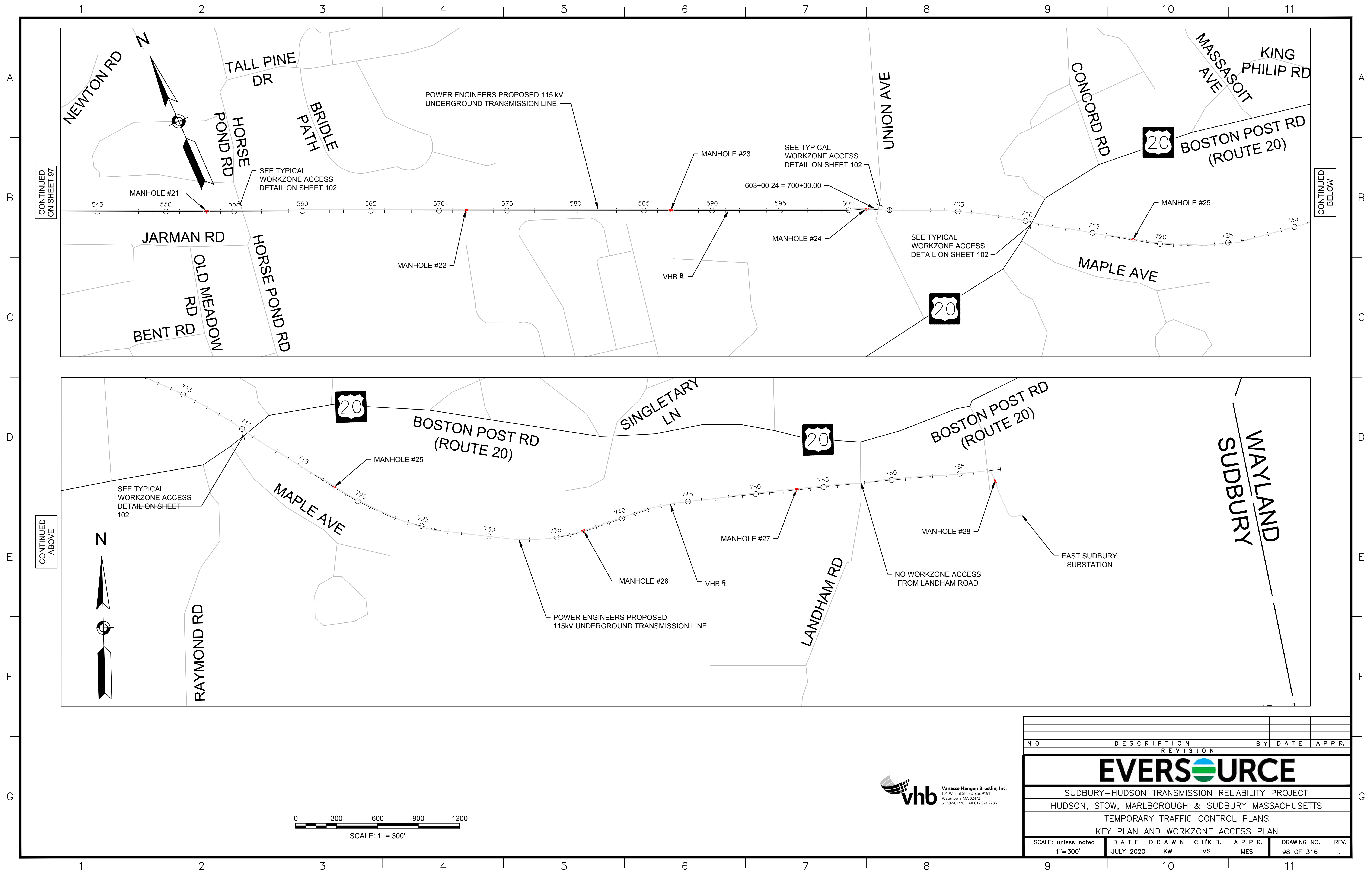
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| N.O.  | DESCRIPTION | BY    | DATE  | APPR. |
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|   | REVISION    |       |       |       |
| <b>EVERSOURCE</b>                                 |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |       |       |
| TEMPORARY TRAFFIC CONTROL PLANS                   |             |       |       |       |
| KEY PLAN AND WORKZONE ACCESS PLAN                 |             |       |       |       |
| SCALE: unless noted<br>1"=300'                    | DATE        | DRAWN | CHK'D | APPR. |
|   | JULY 2020   | KW    | MS    | MES   |
| DRAWING NO.                                       | REV.        |       |       |       |
| 97 OF 316   | .           |       |       |       |

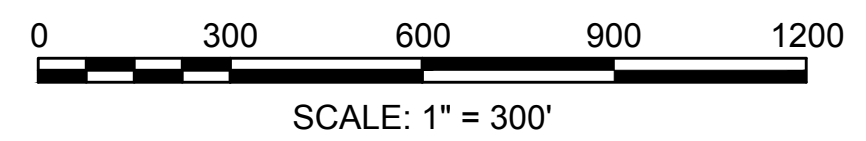


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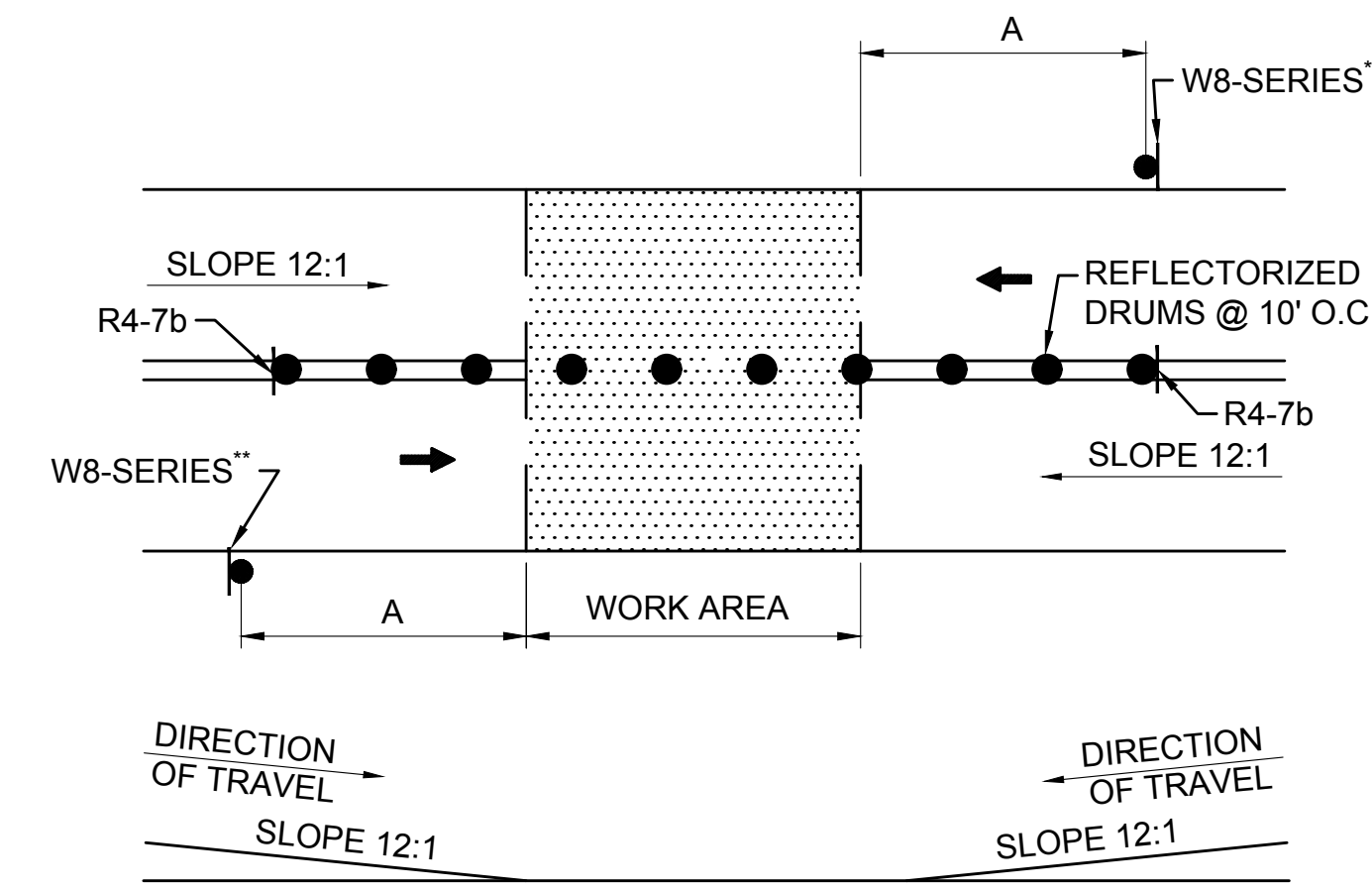
| N.O.  | DESCRIPTION       | BY          | DATE        | APPR.        |
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| REVISION  |                   |             |             |              |
| <b>EVERSOURCE</b>                                 |                   |             |             |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |             |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |             |              |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                   |             |             |              |
| KEY PLAN AND WORKZONE ACCESS PLAN                 |                   |             |             |              |
| SCALE: unless noted<br>1"=300'                    | DATE<br>JULY 2020 | DRAWN<br>KW | CHK'D<br>MS | APPR.<br>MES |
| DRAWING NO.<br>98 OF 316                          |                   |             |             | REV.<br>.    |



**GENERAL NOTES**

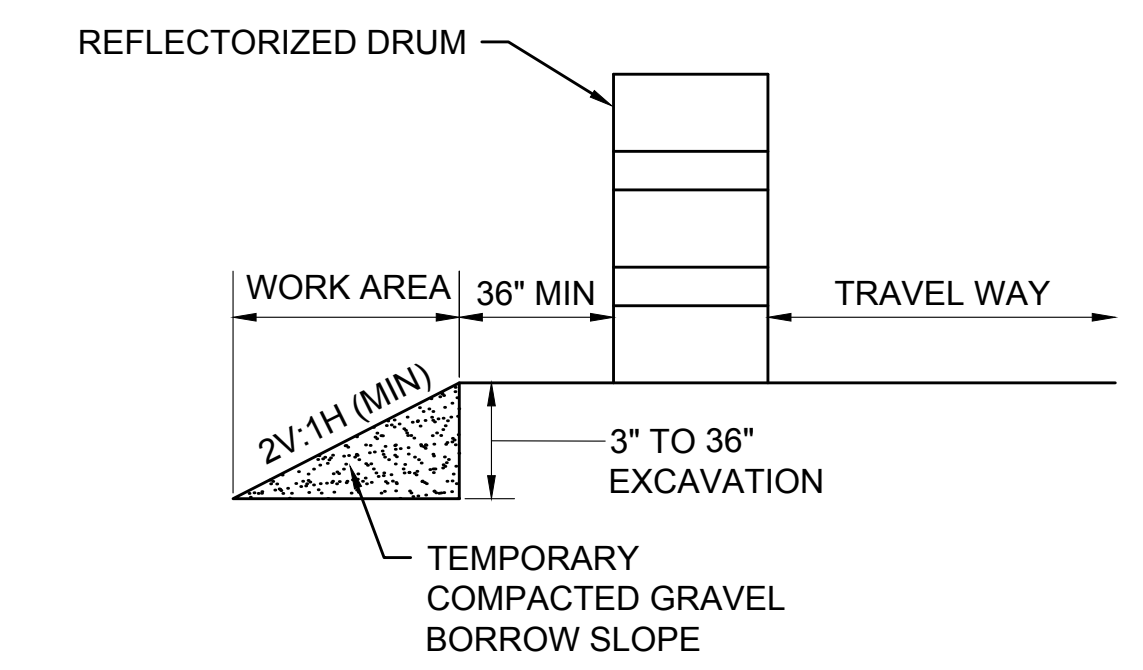
- ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- WORK HOURS SHALL BE AS STIPULATED BY THE ENERGY FACILITIES SITING BOARD (EFSB) AND AS APPROVED BY AGENCY OR MUNICIPALITY WITH JURISDICTION OF THE ROADWAY.
- NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS AND PUBLIC RIGHTS-OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
- THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN, WHEN TAPER IS DEPLOYED.
- REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 2 WEEKS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
- FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES.
- CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 12.
- CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:  
 4' IF POSTED SPEED IS LESS THAN 35 MPH  
 8' IF POSTED SPEED IS 35 MPH  
 15' IF POSTED SPEED IS 40 MPH  
 20' IF POSTED SPEED IS 45 MPH
- 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
- NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD.
- MA-W20-7b SIGNS SHALL BE REPLACED BY W20-7 SIGNS WHEN FLAGGERS ARE USED IN LIEU OF POLICE OFFICER DETAILS.
- WHEN UTILIZING TYPICAL TRAFFIC CONTROL DETAILS OR STAGING SETUPS, COVER EXISTING CONFLICTING ADVANCE WARNING SIGNS AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
- THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- TEMPORARY CONSTRUCTION FENCING IS TO BE USED AS NEEDED WHEN WORKING ADJACENT TO PRIVATE PROPERTY TO DELINEATE WORK ZONE LIMITS AND PREVENT UNAUTHORIZED ACCESS.

| LANE TAPER LENGTH FORMULAS                              |                     |
|---|---------------------|
| L= TAPER LENGTH IN FEET                                 |                     |
| W= WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET |                     |
| S= POSTED SPEED LIMIT IN MPH                            |                     |
| POSTED SPEED  |                     |
| 40 MPH OR LESS  | GREATER THAN 40 MPH |
| $L = \frac{WS^2}{60}$                                   | L= WS               |



- NOTES:**
- SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
  - \*\* CONTRACTOR SHALL INSTALL W8-1 OR W8-8 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**TEMPORARY PAVEMENT TRANSITION**  
SCALE: NTS



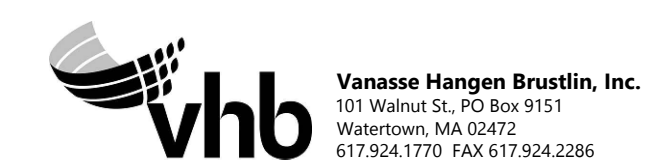
- NOTE:**
- CONTRACTOR SHALL INSTALL W8-9 SIGN ON ALL ROADWAYS 350 FT IN ADVANCE OF THE START OF DROP-OFF CONDITION.

**TYPICAL ROADWAY DROP-OFF PROTECTION**  
SCALE: NTS

| LEGEND |  |
|--------|--|
|        | FLAGGER  |
|        | POLICE OFFICER   |
|        | TRAFFIC SIGNAL   |
|        | REFLECTORIZED DRUM   |
|        | REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE NOTE 7) |
|        | TEMPORARY CONSTRUCTION SIGN  |
|        | TRAFFIC CONE   |
|        | TYPE III BARRICADE   |
|        | WORK AREA (PUBLIC ACCESS RESTRICTED)                                     |
|        | ROAD CLOSED, LOCAL ACCESS ONLY   |
|        | TRAFFIC FLOW   |
|        | PEDESTRIAN ROUTE   |
|        | CONSTRUCTION FENCE   |
|        | TEMPORARY PORTABLE PEDESTRIAN BARRICADE                                  |
| NTS    | NOT TO SCALE   |

| ROADWAY  | DISTANCE BETWEEN SIGNS (FEET) |     |     |     |
|--|-------------------------------|-----|-----|-----|
|  | A                             | B   | C   | D   |
| FOREST AVE, WILKINS ST, MAIN ST, CONCORD RD, DUTTON RD, PEAKHAM RD, HORSE POND RD, UNION AVE, LANDHAM RD | 350                           | 150 | 350 | 350 |
| BOSTON POST RD (ROUTE 20)  | 500                           | 250 | 500 | 500 |
| ALL OTHERS   | 100                           | 50  | 100 | 100 |

| BUFFER SPACING |                 |
|----------------|-----------------|
| SPEED (MPH)    | DISTANCE (FEET) |
| 15             | 80              |
| 20             | 115             |
| 25             | 155             |
| 30             | 200             |
| 35             | 250             |
| 40             | 305             |



| REVISION |             |    |      |
|----------|-------------|----|------|
| N O.     | DESCRIPTION | BY | DATE |
|          |             |    |      |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 TEMPORARY TRAFFIC CONTROL PLANS  
 GENERAL NOTES AND LEGEND

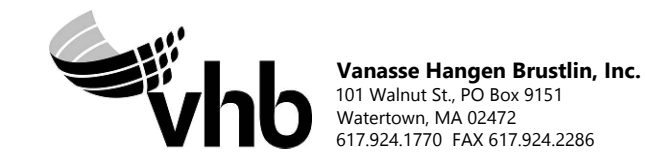
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| SCALE: unless noted<br>NTS | DATE DRAWN<br>JULY 2020 | CHK'D.<br>KW | APP'R.<br>MS | DRAWING NO.<br>99 OF 316 | REV.<br>MES |
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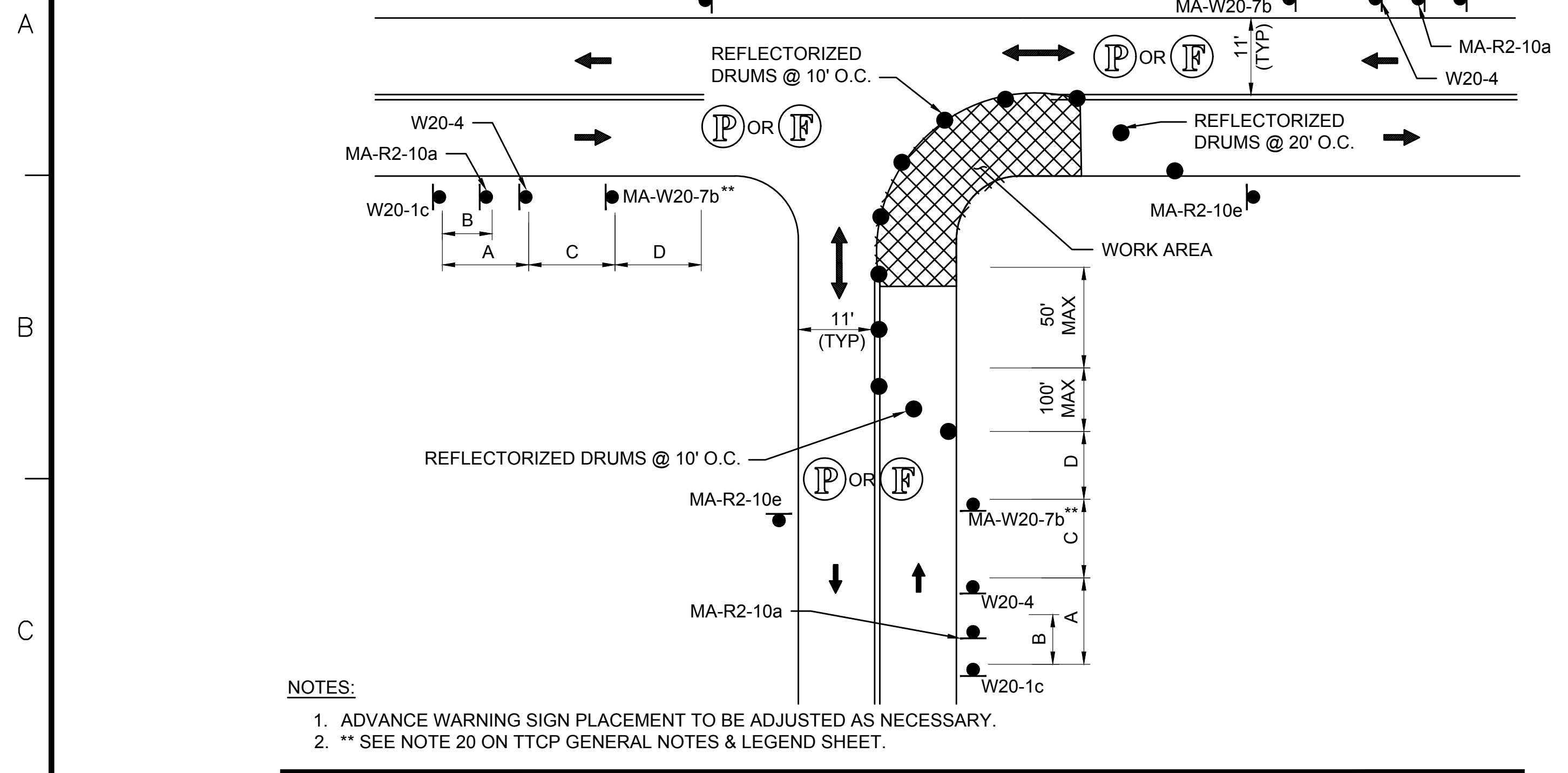
SUGGESTED TEMPORARY TRAFFIC CONTROL SETUP APPLICATION

| TOWN               | ROADWAY                          | POWER STATION<br>(SEE NOTE 1)    | VHB STATION<br>(SEE NOTE 2)   | TEMPORARY TRAFFIC CONTROL SETUPS  | SHEET NUMBER           | NOTES                |
|--------------------|----------------------------------|----------------------------------|---|---|------------------------|----------------------|
| HUDSON             | EVERSOURCE                       | 0+00 ± TO 6+30 ±                 | --  | OFF-ROAD  | --                     | --                   |
|                    |                                  | 6+30 ± TO 6+50 ±                 | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC<br>PEDESTRIAN BYPASS TYPE II DETAIL         | SHEET 101<br>SHEET 102 | --                   |
|                    | FOREST AVENUE                    | 6+30 ± TO 22+20 ±                | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    |                                  | 22+20 ± TO 23+80 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | MANHOLE #2           |
|                    |                                  | 23+80 ± TO 24+40 ±               | --  | SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 1   | SHEET 103              | AT MARLBORO ST       |
|                    |                                  | 24+40 ± TO 26+00 ±               | --  | SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 2   | SHEET 104              | AT MARLBORO ST       |
|                    |                                  | 26+00 ± TO 29+20 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    |                                  | 29+20 ± TO 30+20 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | AT WOODROW ST        |
|                    |                                  | 30+20 ± TO 35+60 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    |                                  | 35+60 ± TO 37+00 ±               | --  | CLOSURE AND DETOUR PLAN - JOHN ROBINSON DR  | SHEET 109              | AT JOHN ROBINSON RD  |
|                    |                                  | 37+00 ± TO 39+00 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    |                                  | 39+00 ± TO 40+50 ±               | --  | ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS  | SHEET 101              | AT RICHARDSON ST     |
|                    |                                  | 40+50 ± TO 41+80 ±<br>MANHOLE #3 | --  | CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #3   | SHEET 110              | MANHOLE #3           |
|                    |                                  | 41+80 ± TO 42+50 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    |                                  | 42+50 ± TO 44+00 ±               | --  | ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS  | SHEET 101              | AT OLD NORTH RD      |
|                    |                                  | 44+00 ± TO 56+80 ±               | --  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | --                   |
|                    | 56+80 ± TO 58+40 ±<br>MANHOLE #4 | --                               | CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #4   | SHEET 111   | MANHOLE #4             |                      |
|                    | 58+40 ± TO 61+40 ±               | --                               | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101   | --                     |                      |
|                    | FOREST AVENUE / WILKINS ST       | 61+40 ± TO 62+00 ±               | --  | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 1<br>PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK         | SHEET 105<br>SHEET 119 | AT MAIN / WILKINS ST |
|                    |                                  | 62+00 ± TO 62+30 ±               | --  | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 2<br>CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4 | SHEET 106<br>SHEET 111 | AT MAIN / WILKINS ST |
| 62+30 ± TO 62+40 ± |                                  | --                               | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 3<br>CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4 | SHEET 107<br>SHEET 111  | AT MAIN / WILKINS ST   |                      |
| 62+40 ± TO 63+30 ± |                                  | --                               | SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 4<br>PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK         | SHEET 108<br>SHEET 119  | AT MAIN / WILKINS ST   |                      |
| WILKINS ST         | 63+30 ± TO 73+60 ±               | --                               | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101   | --                     |                      |
| STOW               | MBTA ROW                         | --                               | 100+31 ± TO 124+95 ±  | OFF-ROAD  | --                     | --                   |
|                    | MBTA ROW                         | --                               | 124+95 ± TO 128+30 ±  | OFF-ROAD  | --                     | --                   |
| HUDSON             | MBTA ROW                         | --                               | 128+30 ± TO 132+50 ±  | OFF-ROAD  | --                     | --                   |
|                    | CHESTNUT ST                      | --                               | 132+50 ± TO 132+80 ±  | CLOSURE AND DETOUR PLAN- CHESTNUT ST AND MARLBORO RD  | SHEET 113              | AT CHESTNUT ST       |
|                    | MBTA ROW                         | --                               | 132+80 ± TO 181+60 ±  | OFF-ROAD  | --                     | --                   |
|                    | MAIN ST                          | --                               | 181+60 ± TO 182+30 ±  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | AT MAIN ST           |
|                    | MBTA ROW                         | --                               | 182+30 ± TO 213+50 ±  | OFF-ROAD  | --                     | --                   |
|                    | PARMENTER RD                     | --                               | 213+50 ± TO 213+70 ±  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | AT PARMENTER RD      |
|                    | MBTA ROW                         | --                               | 213+70 ± TO 214+47 ±<br>214+47 ± = 300+00 ±<br>300+00 ± TO 336+90 ±                                 | OFF-ROAD  | --                     | --                   |
|                    | WHITE POND RD                    | --                               | 336+90 ± TO 337+10 ±  | CLOSURE AND DETOUR PLAN- WHITE POND RD  | SHEET 114              | AT WHITE POND RD     |
| MARLBOROUGH        | MBTA ROW                         | --                               | 337+10 ± TO 361+40 ±  | OFF-ROAD  | --                     | --                   |
|                    | MBTA ROW                         | --                               | 361+40 ± TO 361+55 ±  | OFF-ROAD  | --                     | --                   |
| SUDBURY            | MBTA ROW                         | --                               | 361+55 ± TO 416+85 ±  | OFF-ROAD  | --                     | --                   |
|                    | DUTTON RD                        | --                               | 416+85 ± TO 417+10 ±<br>417+10 ± = 500+00 ±   | CLOSURE AND DETOUR PLAN- DUTTON RD  | SHEET 115              | AT DUTTON RD         |
|                    | MBTA ROW                         | --                               | 500+00 ± TO 530+45 ±  | OFF-ROAD  | --                     | --                   |
|                    | PEAKHAM RD                       | --                               | 530+45 ± TO 530+65 ±  | PEDESTRIAN BYPASS TYPE I DETAIL<br>CLOSURE AND DETOUR- PEAKHAM RD                                   | SHEET 102<br>SHEET 116 | AT PEAKHAM RD        |
|                    | MBTA ROW                         | --                               | 530+65 ± TO 555+75 ±  | OFF-ROAD  | --                     | --                   |
|                    | HORSE POND RD                    | --                               | 555+75 ± TO 556+00 ±  | PEDESTRIAN BYPASS TYPE I DETAIL<br>CLOSURE AND DETOUR- HORSE POND RD                                | SHEET 102<br>SHEET 117 | AT HORSE POND RD     |
|                    | MBTA ROW                         | --                               | 556+00 ± TO 602+35 ±  | OFF-ROAD  | --                     | --                   |
|                    | UNION AVE                        | --                               | 602+35 ± TO 602+65 ±  | TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC   | SHEET 101              | AT UNION AVE         |
|                    | MBTA ROW                         | --                               | 602+65 ± TO 603+00 ±<br>603+00 ± = 700+00 ±<br>700+00 ± TO 711+35 ±                                 | OFF-ROAD  | --                     | --                   |
|                    | BOSTON POST RD (ROUTE 20)        | --                               | 711+35 ± TO 711+65 ±  | SEE NOTE 4  | --                     | AT BOSTON POST RD    |
| SUDBURY            | MBTA ROW                         | --                               | 711+65 ± TO 757+65 ±  | OFF-ROAD  | --                     | --                   |
|                    | LANDHAM RD                       | --                               | 757+65 ± TO 758+00 ±  | OFF-ROAD  | --                     | BELOW LANDHAM RD     |
|                    | MBTA ROW                         | --                               | 758+00 ± TO 767+30 ±  | OFF-ROAD  | --                     | --                   |

- NOTES:
- REFER TO KEY PLAN AND WORKZONE ACCESS PLAN ON SHEETS 97 & 98 FOR OVERVIEW. SEE POWER ENGINEERS UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
  - REFER TO VHB CONSTRUCTION PLANS ON SHEETS 17-39 FOR ADDITIONAL INFORMATION.
  - ALL WORK HOURS SHALL BE APPROVED BY THE TOWN. IT IS ASSUMED WORK AT THE INTERSECTIONS OF FOREST AVENUE AT MARLBORO STREET AND MAIN STREET AT FOREST AVENUE/ WILKINS ST WILL REQUIRE NIGHT WORK. WORK IN THE PROXIMITY OF FOREST AVENUE ELEMENTARY AND CHAPS CHILD CARE WILL ALSO REQUIRE ADDITIONAL COORDINATION WITH THE TOWN OF HUDSON.
  - REFER TO APPROVED MASSDOT ACCESS PERMIT TTCP FOR WORK ALONG ROUTE 20.



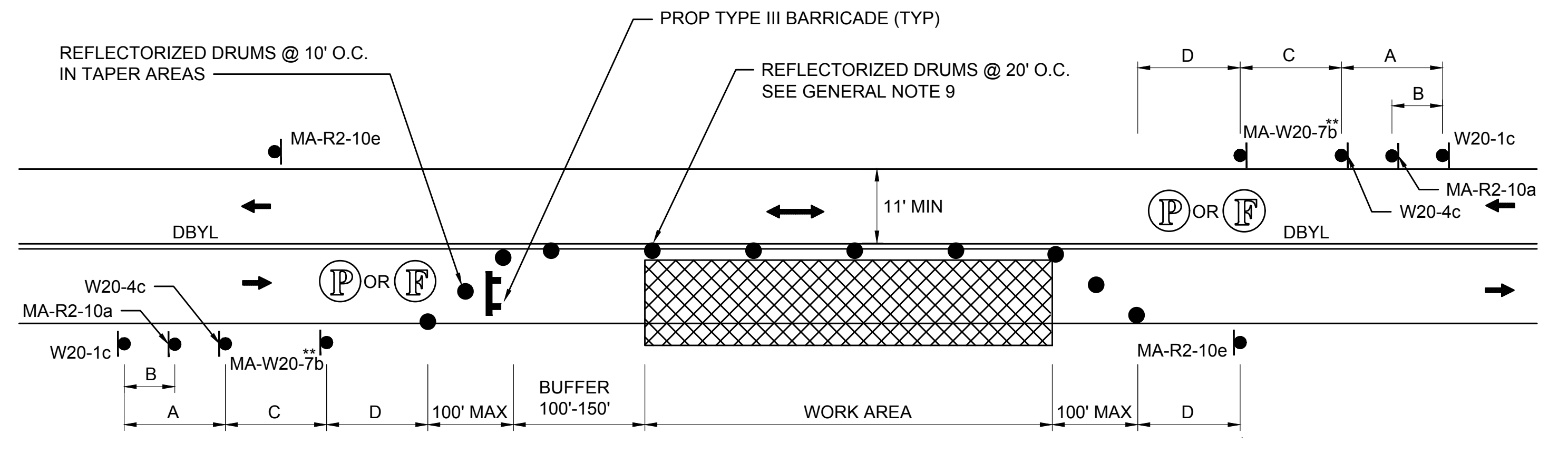
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| <b>EVERSOURCE</b>                                 |           |             |       |          |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |           |             |       |          |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |           |             |       |          |             |       |
| TEMPORARY TRAFFIC CONTROL PLANS                   |           |             |       |          |             |       |
| SUGGESTED TEMPORARY TRAFFIC CONTROL               |           |             |       |          |             |       |
| SCALE: unless noted<br>NTS                        | DATE      | DRAWN       | CHK'D | A.P.P.R. | DRAWING NO. | REV.  |
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- NOTES:**
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
  2. \*\* SEE NOTE 20 ON TTCP GENERAL NOTES & LEGEND SHEET.

**ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS**

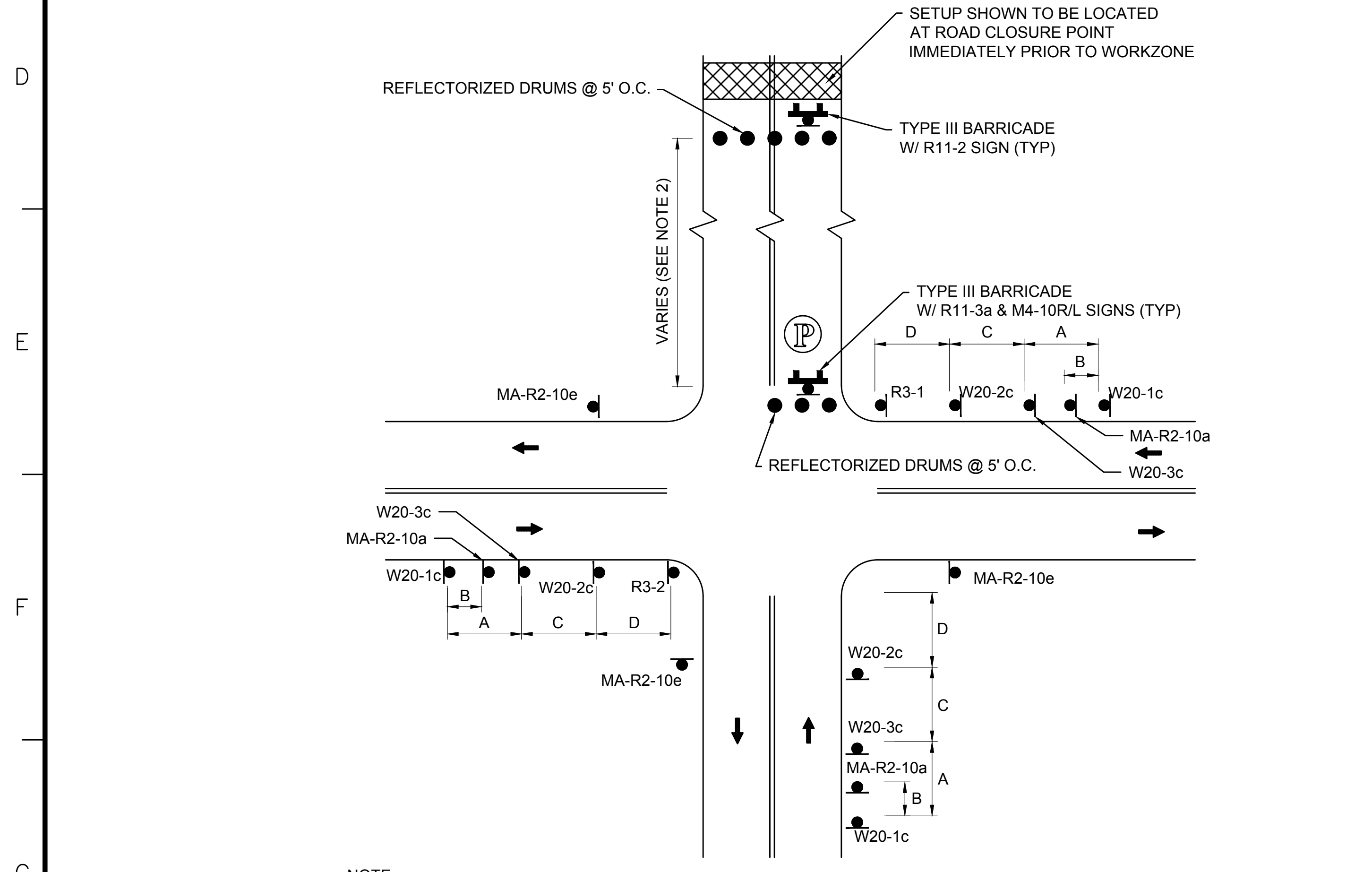
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- NOTES:**
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
  2. \*\* SEE NOTE 20 ON TTCP GENERAL NOTES & LEGEND SHEET.

**TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC**

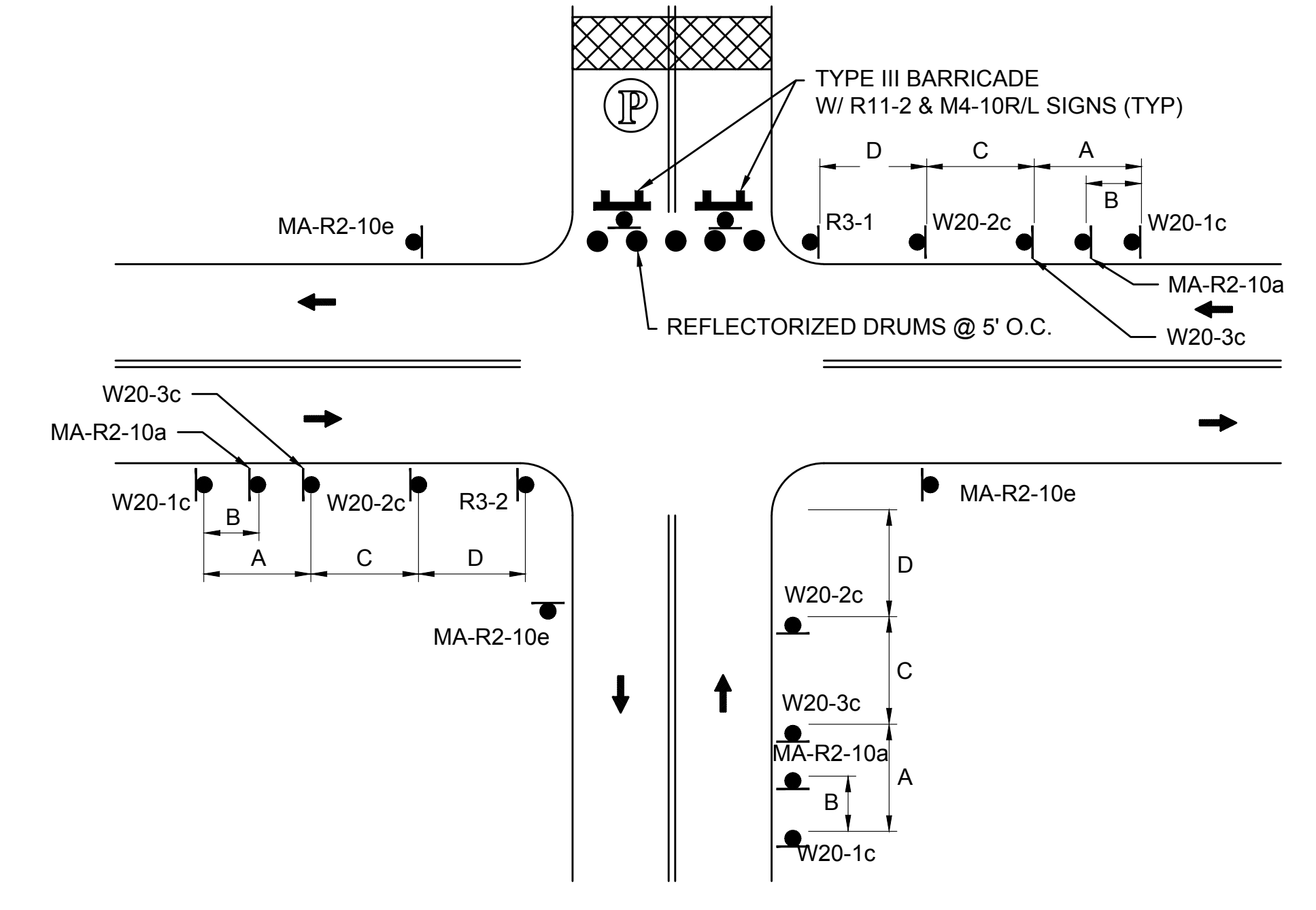
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- NOTE:**
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
  2. SEE DETOUR PLAN FOR LOCATION OF WORKZONE AND PARTIAL ROAD CLOSURE.

**TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS**

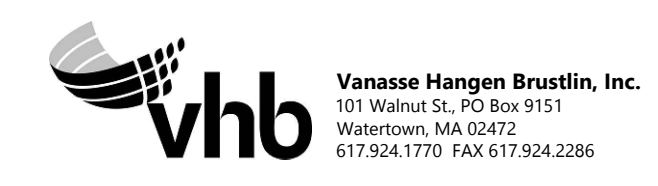
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- NOTE:**
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

**TYPICAL LOCAL ROAD CLOSURE**

SCALE: NTS



| N.O.  | DESCRIPTION               | BY          | DATE         | APPR.        |
|---|---------------------------|-------------|--------------|--------------|
| REVISION  |                           |             |              |              |
| <b>EVERSOURCE</b>                                 |                           |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                           |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                           |             |              |              |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                           |             |              |              |
| TYPICAL DETAILS                                   |                           |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020         | DRAWN<br>KW | CHK'D.<br>MS | APPR.<br>MES |
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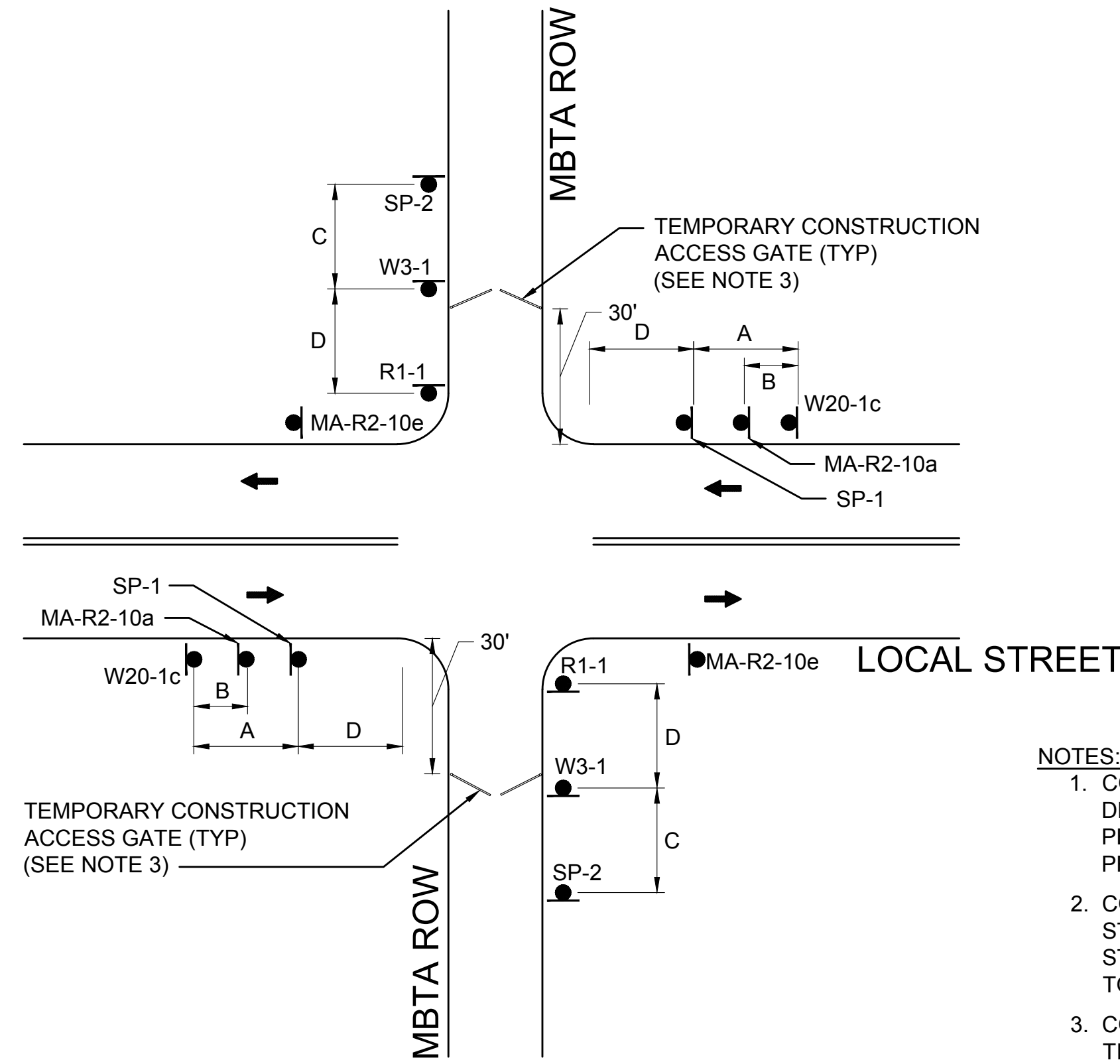
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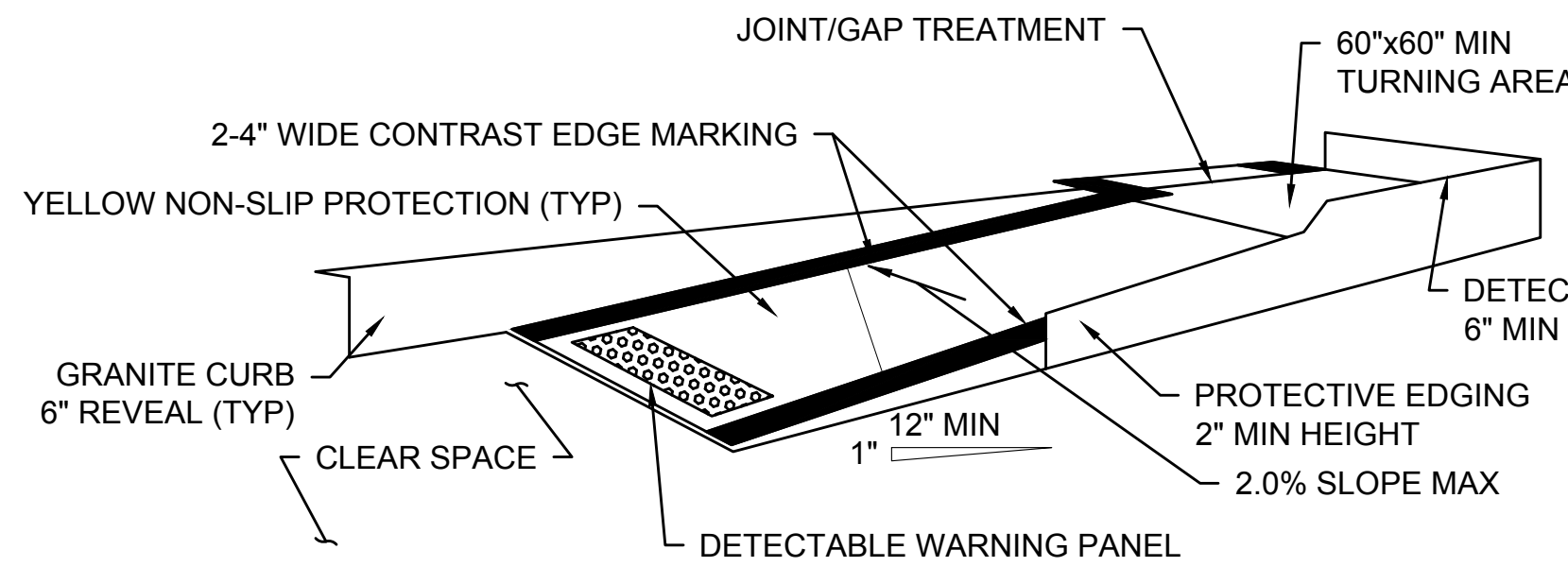
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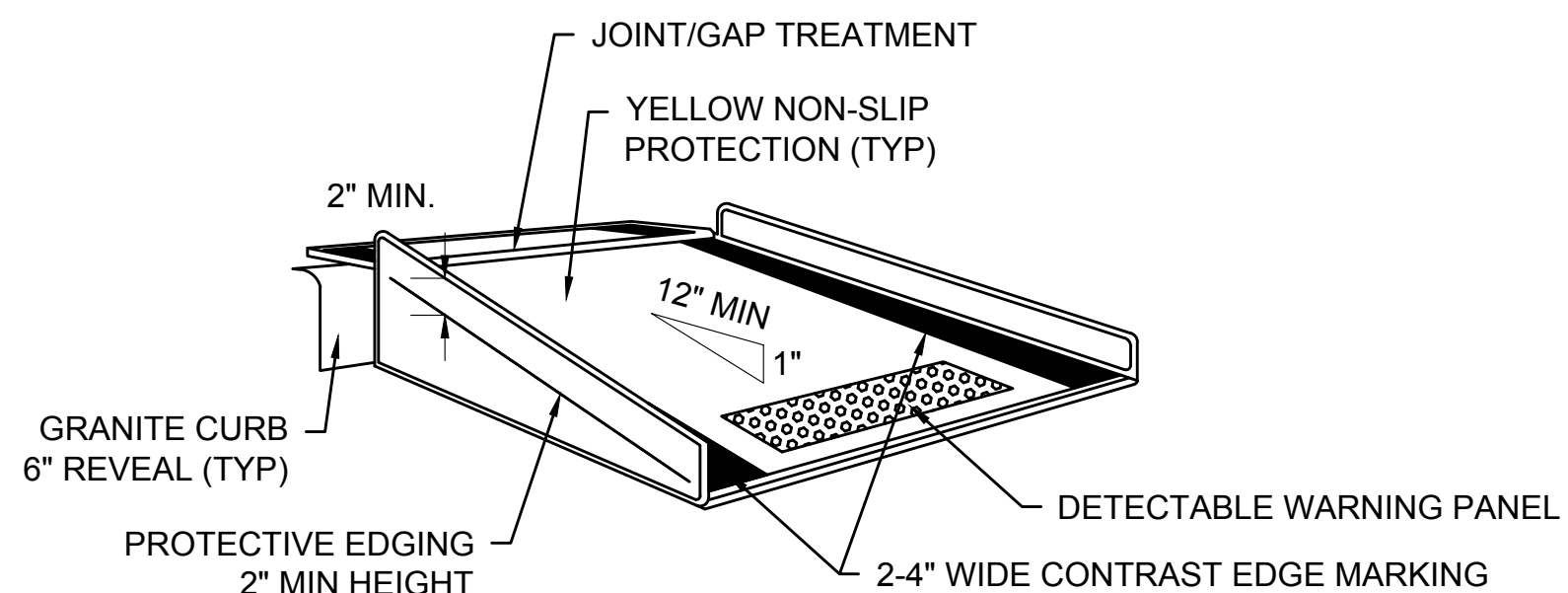
- NOTES:**
1. CONTRACTOR SHALL DEVELOP WORK ZONE STAGING AREAS WITH DESIGNATED PARKING FOR EMPLOYEES. PARKING OF WORKERS' PERSONAL VEHICLES ON PUBLIC PROPERTY IS STRICTLY PROHIBITED.
  2. CONTRACTOR SHALL DESIGNATE MATERIAL STORAGE AND STAGING AREAS FOR OFF-SITE MATERIAL STORAGE. OFF-SITE STORAGE AREAS SHALL BE MARKED WITH REFLECTORIZED DRUMS TO CLEARLY DELINEATE AREA LIMITS.
  3. CONTRACTOR SHALL RESTRICT UNAUTHORIZED ACCESS AT ALL TIMES.

**TYPICAL WORKZONE ACCESS**

SCALE: NTS



TEMPORARY CURB RAMP-PARALLEL TO CURB



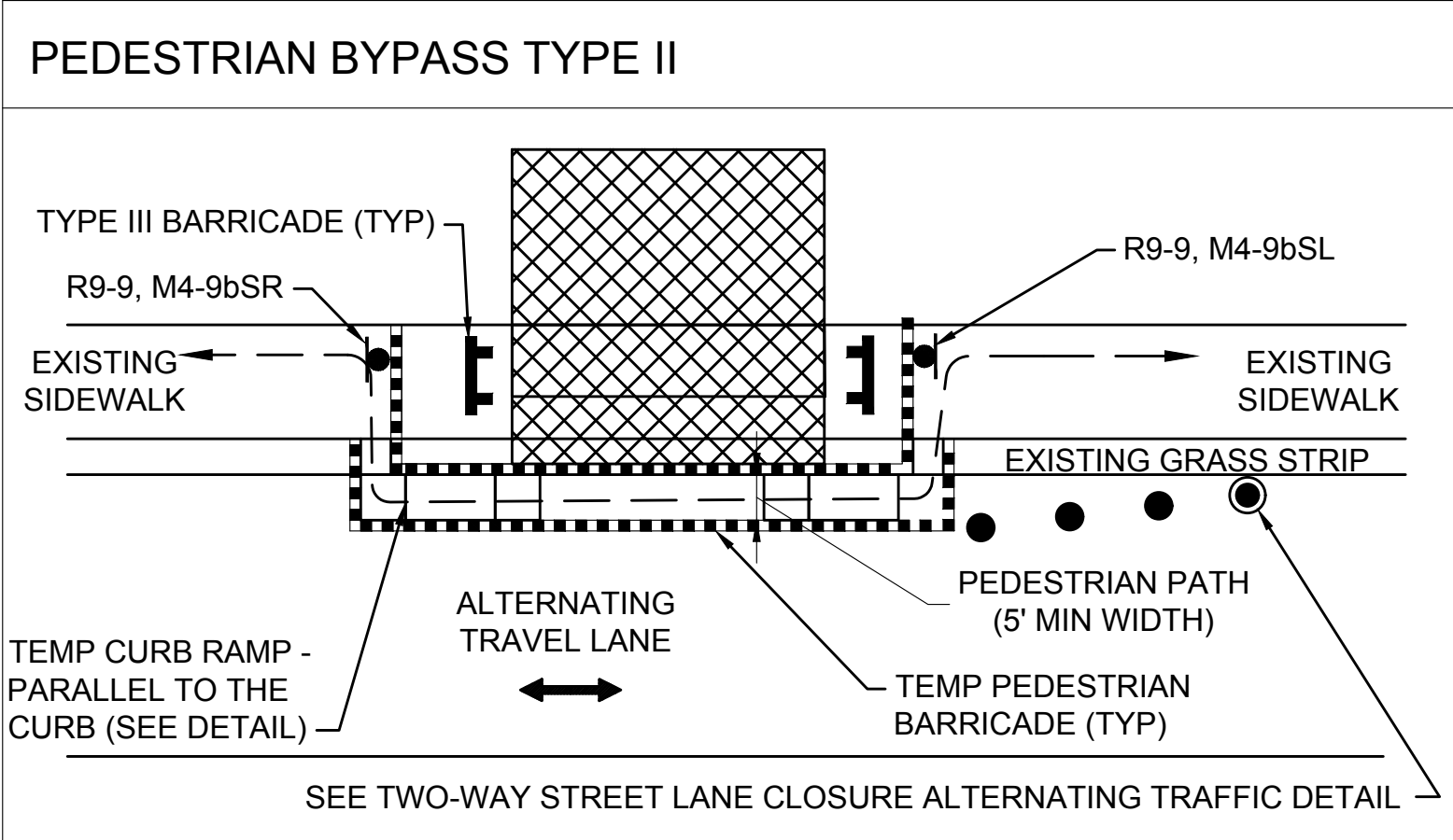
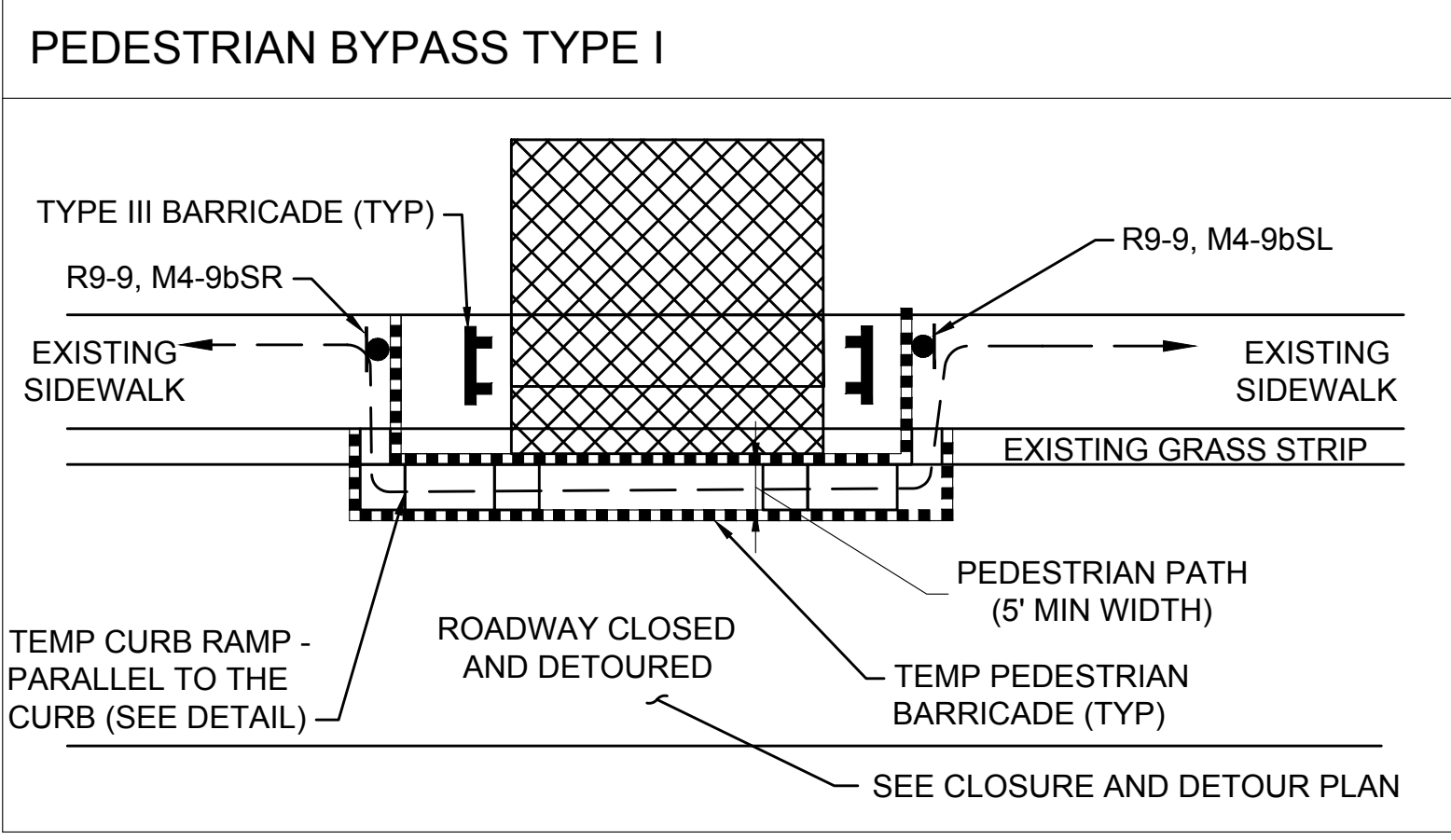
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

**TEMPORARY CURB RAMPS**

SCALE: NTS

- NOTES:**
1. CURB RAMPS SHALL BE 60" MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
  2. PROTECTIVE EDGING WITH A 2" MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
  3. DETECTABLE EDGING WITH 6" MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
  4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
  5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
  6. CLEAR SPACE OF 48"x48" MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
  7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
  8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5" WIDTH.
  9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5" LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25" HIGH, AND BEVELED AT 1:2 BETWEEN 0.25" AND 0.5" HEIGHT.
  10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

- NOTES:**
1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
  2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
  3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
  4. — — — INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
  5. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS AND INCLUDE THE USE OF A COMPLIANT TEMPORARY PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM AT ALL TIMES.
  6. CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS. A 5' x 5' PASSING AREA SHALL BE PROVIDED IN INTERVALS NOT EXCEEDING 200 FEET.
  7. TEMPORARY WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.

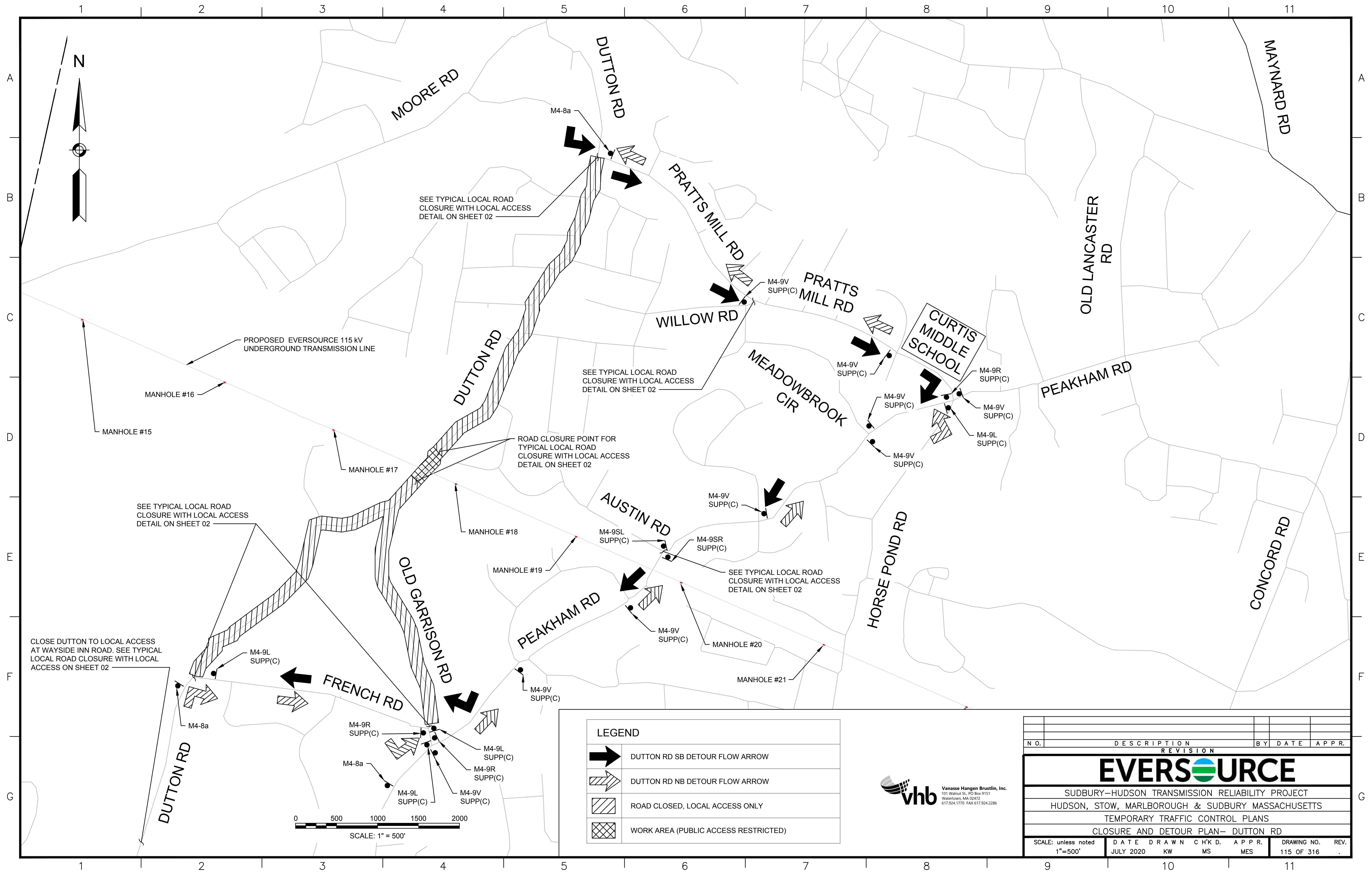


**PEDESTRIAN BYPASS DETAIL**

SCALE: NTS



| REVISION  |                   |               |                    |
|---|-------------------|---------------|--------------------|
| N.O.  | DESCRIPTION       | BY            | DATE               |
|   |                   |               |                    |
|   |                   |               |                    |
|   |                   |               |                    |
| <b>EVERSOURCE</b>                                 |                   |               |                    |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |               |                    |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |               |                    |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                   |               |                    |
| TYPICAL DETAILS                                   |                   |               |                    |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | CH'K D.<br>KW | APPR.<br>MS<br>MES |
| DRAWING NO.<br>102 OF 316                         | REV.              |               |                    |



SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

PROPOSED EVERSOURCE 115 kV UNDERGROUND TRANSMISSION LINE

MANHOLE #16

MANHOLE #15

MANHOLE #17

SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

ROAD CLOSURE POINT FOR TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

MANHOLE #18


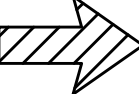
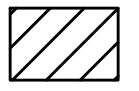

MANHOLE #19

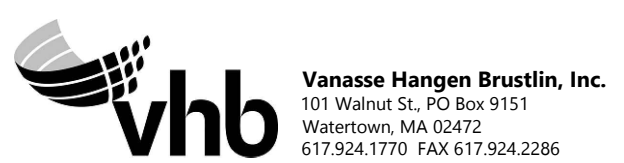
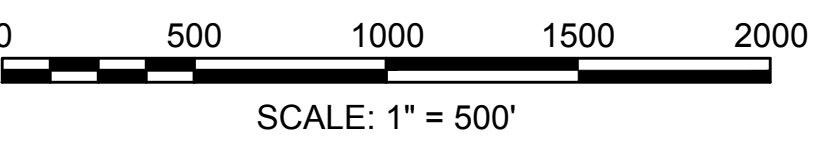
MANHOLE #20

MANHOLE #21

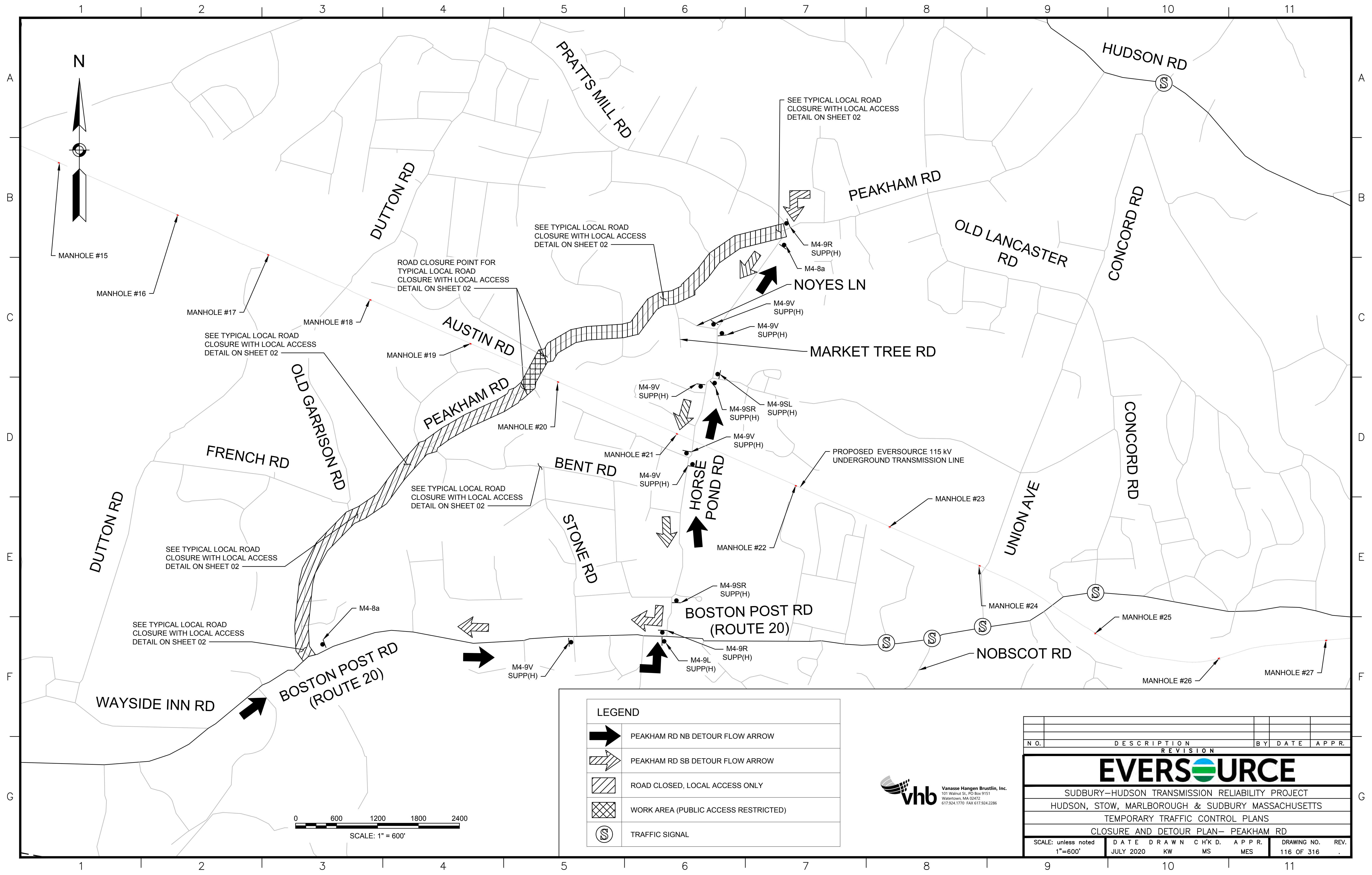
CLOSE DUTTON TO LOCAL ACCESS AT WAYSIDE INN ROAD. SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS ON SHEET 02

**LEGEND**

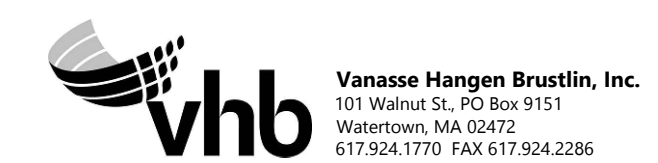
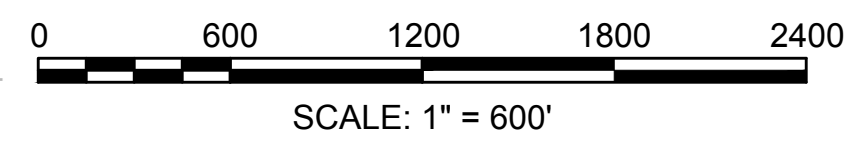
-  DUTTON RD SB DETOUR FLOW ARROW
-  DUTTON RD NB DETOUR FLOW ARROW
-  ROAD CLOSED, LOCAL ACCESS ONLY
-  WORK AREA (PUBLIC ACCESS RESTRICTED)



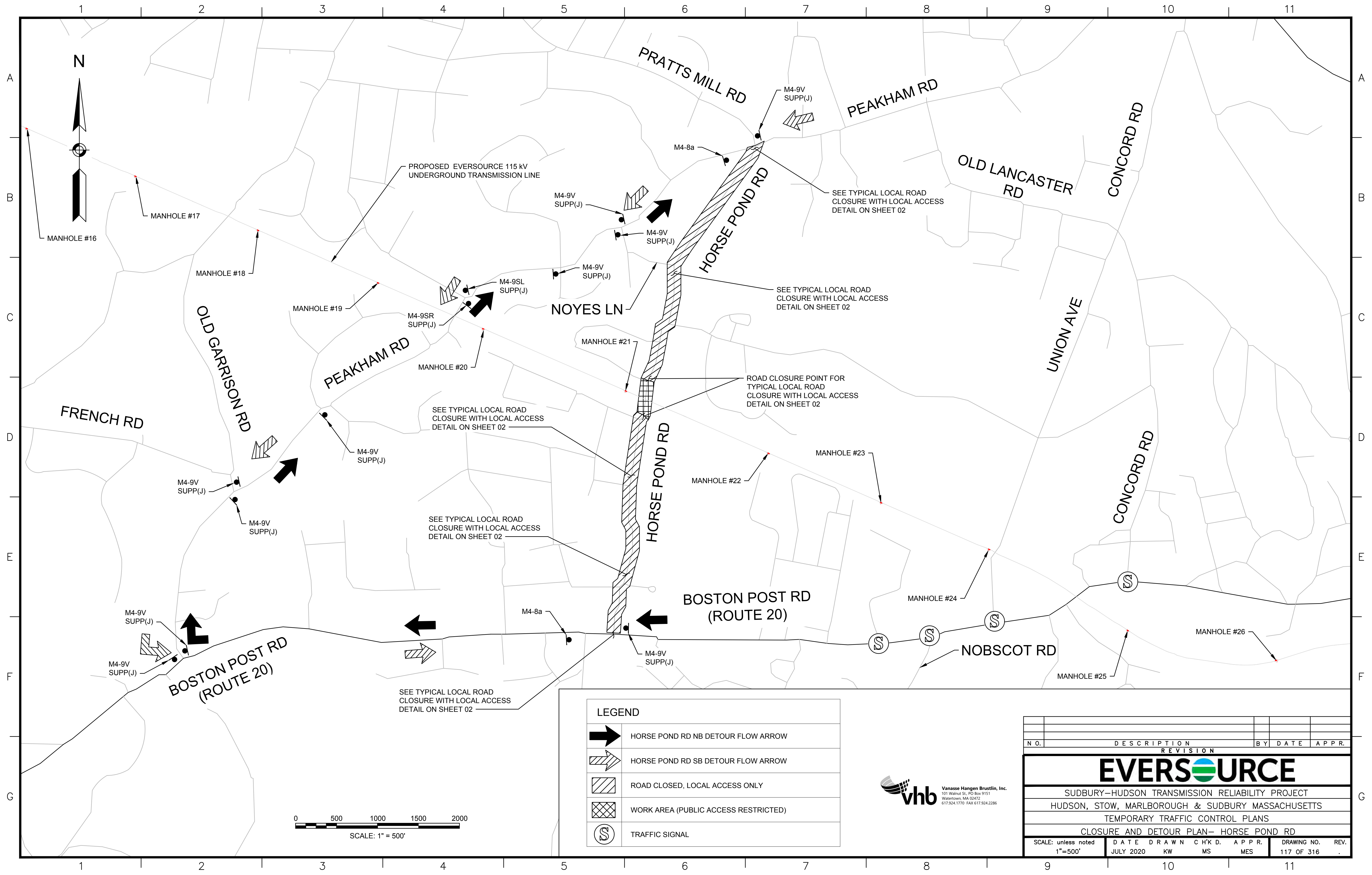
| NO.   |           | DESCRIPTION |       | BY    | DATE        | APPR. |
|---|-----------|-------------|-------|-------|-------------|-------|
| REVISION  |           |             |       |       |             |       |
| <b>EVERSOURCE</b>                                 |           |             |       |       |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |           |             |       |       |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |           |             |       |       |             |       |
| TEMPORARY TRAFFIC CONTROL PLANS                   |           |             |       |       |             |       |
| CLOSURE AND DETOUR PLAN- DUTTON RD                |           |             |       |       |             |       |
| SCALE: unless noted<br>1"=500'                    | DATE      | DRAWN       | CHK'D | APPR. | DRAWING NO. | REV.  |
|   | JULY 2020 | KW          | MS    | MES   | 115 OF 316  |       |



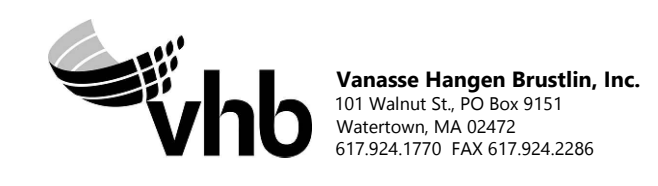
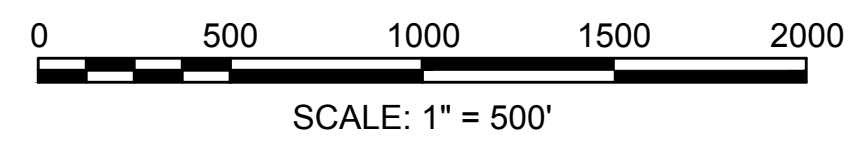
| LEGEND |                                      |
|--------|--------------------------------------|
|        | PEAKHAM RD NB DETOUR FLOW ARROW      |
|        | PEAKHAM RD SB DETOUR FLOW ARROW      |
|        | ROAD CLOSED, LOCAL ACCESS ONLY       |
|        | WORK AREA (PUBLIC ACCESS RESTRICTED) |
|        | TRAFFIC SIGNAL                       |



| N.O.  | DESCRIPTION | BY    | DATE   | APPR. |
|---|-------------|-------|--------|-------|
| REVISION  |             |       |        |       |
| <b>EVERSOURCE</b>                                 |             |       |        |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |        |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |        |       |
| TEMPORARY TRAFFIC CONTROL PLANS                   |             |       |        |       |
| CLOSURE AND DETOUR PLAN- PEAKHAM RD               |             |       |        |       |
| SCALE: unless noted<br>1"=600'                    | DATE        | DRAWN | CHK'D. | APPR. |
|   | JULY 2020   | KW    | MS     | MES   |
| DRAWING NO.                                       | REV.        |       |        |       |
| 116 OF 316  |             |       |        |       |



| LEGEND |                                      |
|--------|--------------------------------------|
|        | HORSE POND RD NB DETOUR FLOW ARROW   |
|        | HORSE POND RD SB DETOUR FLOW ARROW   |
|        | ROAD CLOSED, LOCAL ACCESS ONLY       |
|        | WORK AREA (PUBLIC ACCESS RESTRICTED) |
|        | TRAFFIC SIGNAL                       |



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| REVISION  |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                   |             |              |              |
| CLOSURE AND DETOUR PLAN- HORSE POND RD            |                   |             |              |              |
| SCALE: unless noted<br>1"=500'                    | DATE<br>JULY 2020 | DRAWN<br>KW | CHK'D.<br>MS | APPR.<br>MES |
| DRAWING NO.<br>117 OF 316                         |                   |             |              | REV.         |

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN |        | TEXT | TEXT DIMENSIONS (INCHES)                                    |                  |                 | COLOR               |           |        |
|-----------------------|--------------|--------|------|---|------------------|-----------------|---------------------|-----------|--------|
|                       | WIDTH        | HEIGHT |      | LETTER HEIGHT   | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND         | LEGEND    | BORDER |
| MA-R2-10a             | 48"          | 36"    |      | AS PER MASSDOT STANDARD                                     |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| MA-R2-10e             | 36"          | 48"    |      | AS PER MASSDOT STANDARD                                     |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| R1-1                  | 36"          | 36"    |      | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED |                  |                 | RED                 | WHITE     | WHITE  |
| R3-1                  | 24"          | 24"    |      |   |                  |                 | WHITE               | RED/BLACK | BLACK  |
| R3-2                  | 24"          | 24"    |      |   |                  |                 | WHITE               | RED/BLACK | BLACK  |
| R4-7b                 | 24"          | 30"    |      |   |                  |                 | WHITE               | BLACK     | BLACK  |
| R9-9                  | 24"          | 12"    |      |   |                  |                 | WHITE               | BLACK     | BLACK  |
| R11-2                 | 48"          | 30"    |      |   |                  |                 | WHITE               | BLACK     | BLACK  |
| R11-3a                | 60"          | 30"    |      |   |                  |                 | WHITE               | BLACK     | BLACK  |
| W1-4L                 | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W1-4R                 | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W3-1                  | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W5-1                  | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W8-1                  | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W8-8                  | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W8-9                  | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |
| W20-1c                | 36"          | 36"    |      | AS PER MASSDOT STANDARD                                     |                  |                 | FLUOR-ESCENT ORANGE | BLACK     | BLACK  |

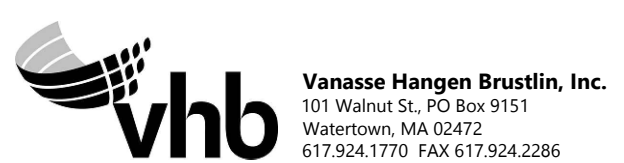
TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

| IDENTIFICATION NUMBER | SIZE OF SIGN |        | TEXT | TEXT DIMENSIONS (INCHES)                                    |                  |                 | COLOR               |        |        |
|-----------------------|--------------|--------|------|---|------------------|-----------------|---------------------|--------|--------|
|                       | WIDTH        | HEIGHT |      | LETTER HEIGHT   | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND         | LEGEND | BORDER |
| W20-2c                | 36"          | 36"    |      | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| W20-3c                | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| W20-4c                | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| W20-7                 | 36"          | 36"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| MA-W20-7b             | 36"          | 36"    |      | AS PER MASSDOT STANDARD                                     |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| W24-2 (MOD)           | 36"          | 36"    |      | AS PER MASSDOT STANDARD                                     |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-4                  | 24"          | 12"    |      | SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED |                  |                 | WHITE               | BLACK  | BLACK  |
| M4-8a                 | 24"          | 18"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-9L                 | 30"          | 24"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-9R                 | 30"          | 24"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-9SL                | 30"          | 24"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-9SR                | 30"          | 24"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-9V                 | 30"          | 24"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | BLACK  |
| M4-10L                | 48"          | 18"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | ---    |
| M4-10R                | 48"          | 18"    |      |   |                  |                 | FLUOR-ESCENT ORANGE | BLACK  | ---    |

**NOTES:**  
 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.  
 2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

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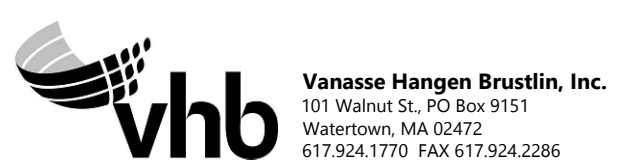


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| NO.   |                   | DESCRIPTION |               | BY              | DATE                      | APPR.     |
| REVISION  |                   |             |               |                 |                           |           |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |                           |           |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |                           |           |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |                           |           |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                   |             |               |                 |                           |           |
| SIGN SUMMARY                                      |                   |             |               |                 |                           |           |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>KW | CHECKED<br>MS | APPROVED<br>MES | DRAWING NO.<br>120 OF 316 | REV.<br>. |

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

| IDENTIFICATION NUMBER | SIZE OF SIGN |        | TEXT                      | TEXT DIMENSIONS (INCHES) |                  |                 | COLOR              |        |        |
|-----------------------|--------------|--------|---------------------------|--------------------------|------------------|-----------------|--------------------|--------|--------|
|                       | WIDTH        | HEIGHT |                           | LETTER HEIGHT            | VERTICAL SPACING | ARROW RTE. MKR. | BACK-GROUND        | LEGEND | BORDER |
| SUPP(A)               | 48"          | 12"    | MARLBORO RD               | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(B)               | 48"          | 12"    | CHESTNUT ST               | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(C)               | 42"          | 12"    | DUTTON RD                 | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(D)               | 36"          | 24"    | WHITE POND RD             | 6"<br>6"<br>6"           | 4"<br>4"<br>4"   | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(E)               | 48"          | 12"    | CONCORD RD                | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(F)               | 42"          | 12"    | FOREST AVE                | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(G)               | 48"          | 24"    | JOHN ROBINSON DR          | 6"<br>6"<br>6"           | 4"<br>4"<br>4"   | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(H)               | 48"          | 12"    | PEAKHAM RD                | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SUPP(J)               | 60"          | 12"    | HORSE POND RD             | 6"<br>6"                 | 3"<br>3"         | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SP-1                  | 36"          | 36"    | CAUTION VEHICLES ENTERING | 6"<br>6"<br>6"           | 3.5"<br>3.5"     | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |
| SP-2                  | 36"          | 36"    | ROAD CROSSING AHEAD       | 6"<br>6"<br>6"           | 3.5"<br>3.5"     | N/A             | FLUORESCENT ORANGE | BLACK  | BLACK  |

NOTES:  
 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.  
 2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

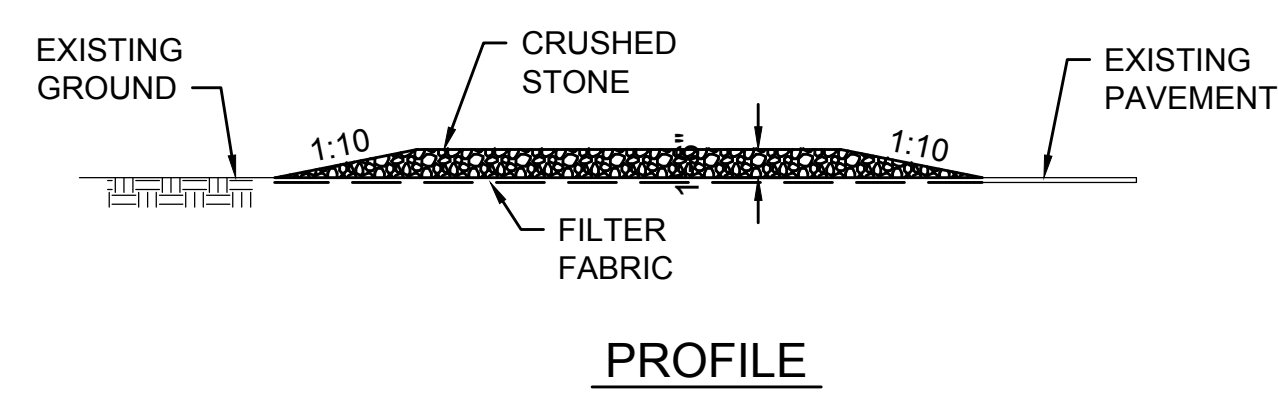
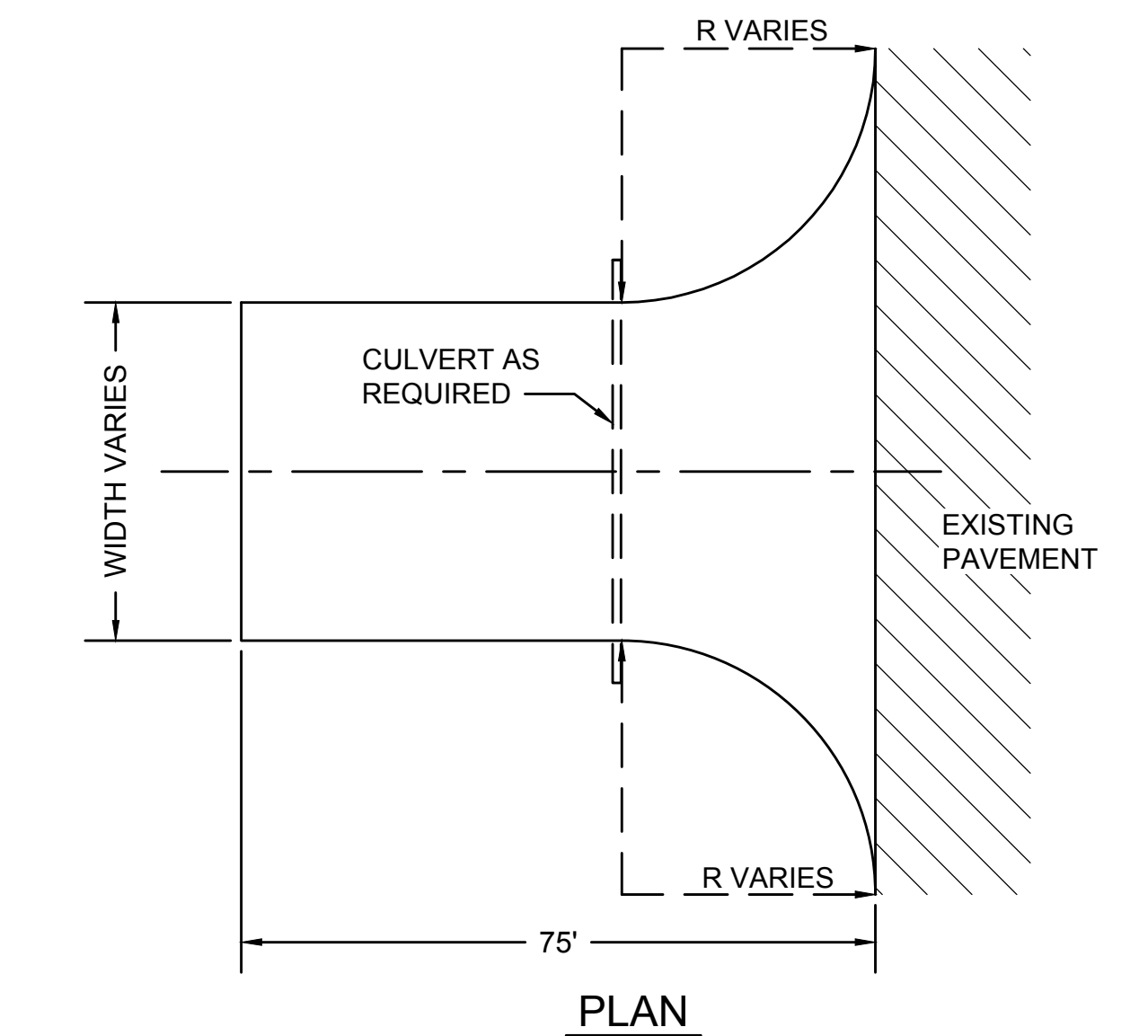


| N O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| REVISION  |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| TEMPORARY TRAFFIC CONTROL PLANS                   |                   |             |              |              |
| SIGN SUMMARY                                      |                   |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>KW | CHK'D.<br>MS | APPR.<br>MES |
| DRAWING NO.<br>121 OF 316                         | REV.              |             |              |              |



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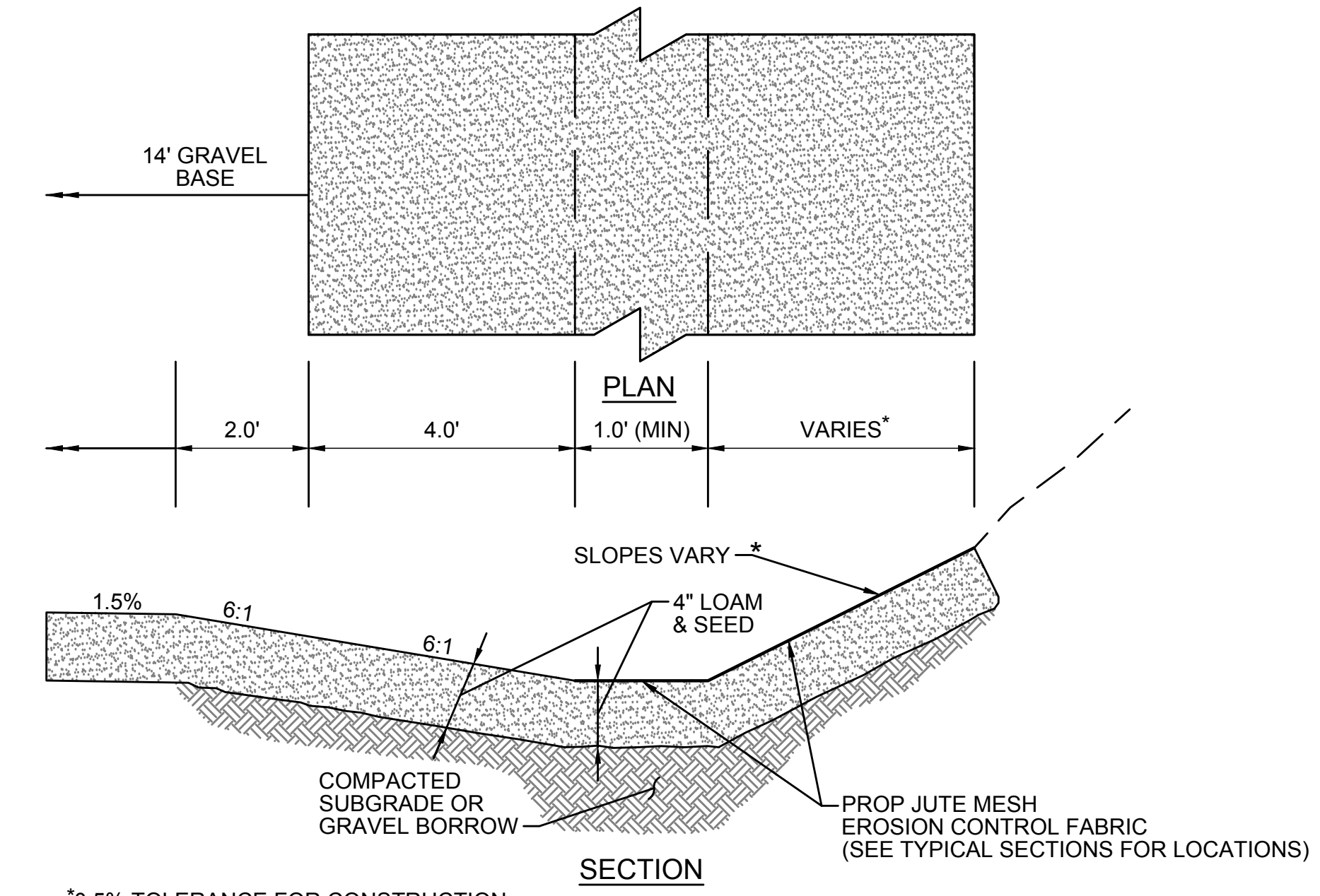
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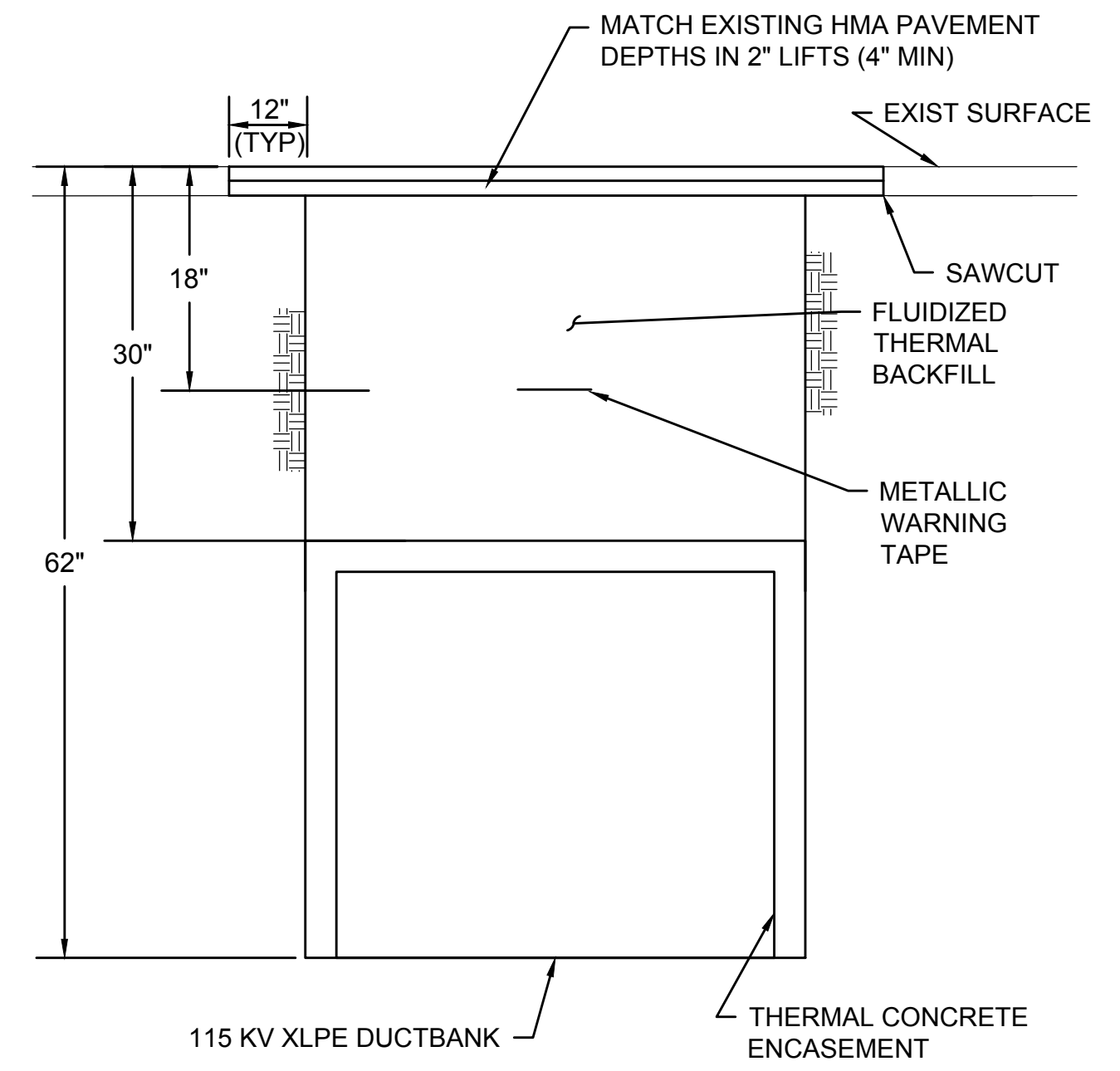
| STABILIZED CONSTRUCTION ENTRANCE LOCATIONS |
|--|
| WILKINS STREET                             |
| MAIN STREET                                |
| PARMENTER ROAD                             |
| WHITE POND ROAD                            |
| DUTTON ROAD                                |
| PEAKHAM ROAD                               |
| HORSE POND ROAD                            |
| UNION AVENUE                               |
| BOSTON POST ROAD                           |
| SUDBURY SUBSTATION DRIVEWAY                |

- NOTES:
1. ALL STABILIZED CONSTRUCTION ENTRANCES SHALL BE WITHIN LIMITS OF GRADING SHOWN ON CONSTRUCTION PLANS.
  2. CONSTRUCTION ENTRANCES TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED AND DISTURBED AREA OUTSIDE OF 14' GRAVEL BASE TO BE LOAMED AND SEEDED AS SHOWN ON CONSTRUCTION PLANS.

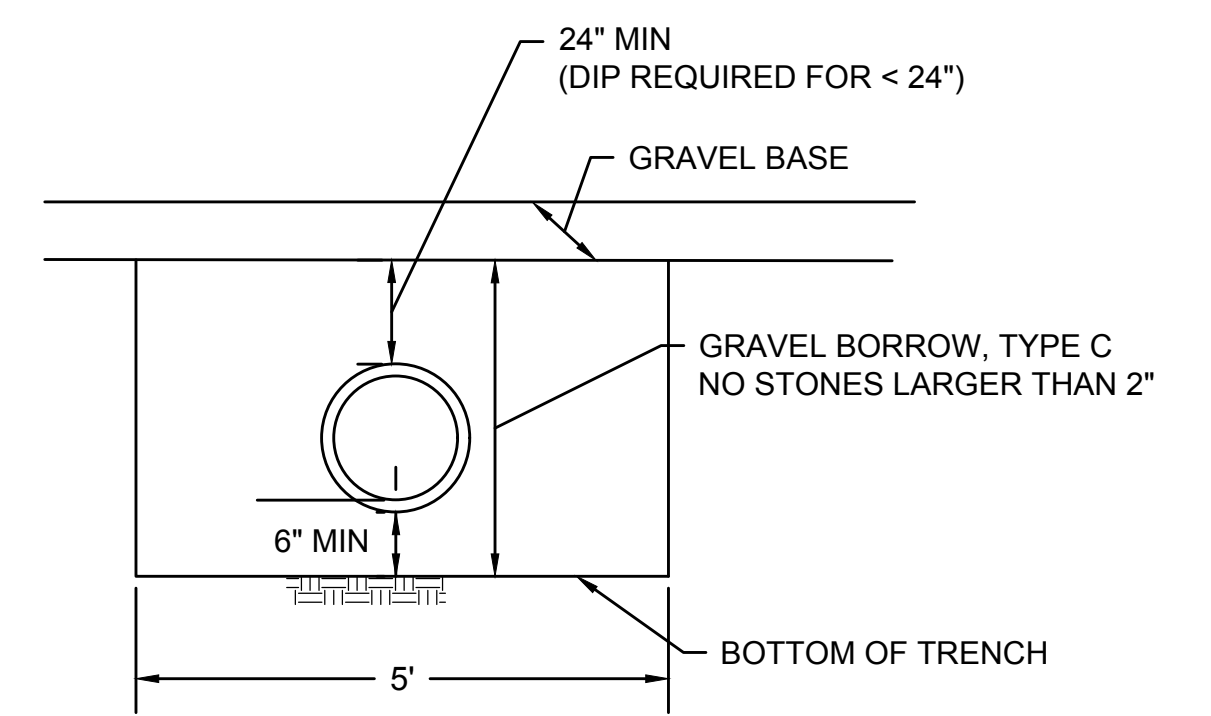
**STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: N.T.S.



**SWALE/AREA OF INCREASED INFILTRATION**  
SCALE: N.T.S.

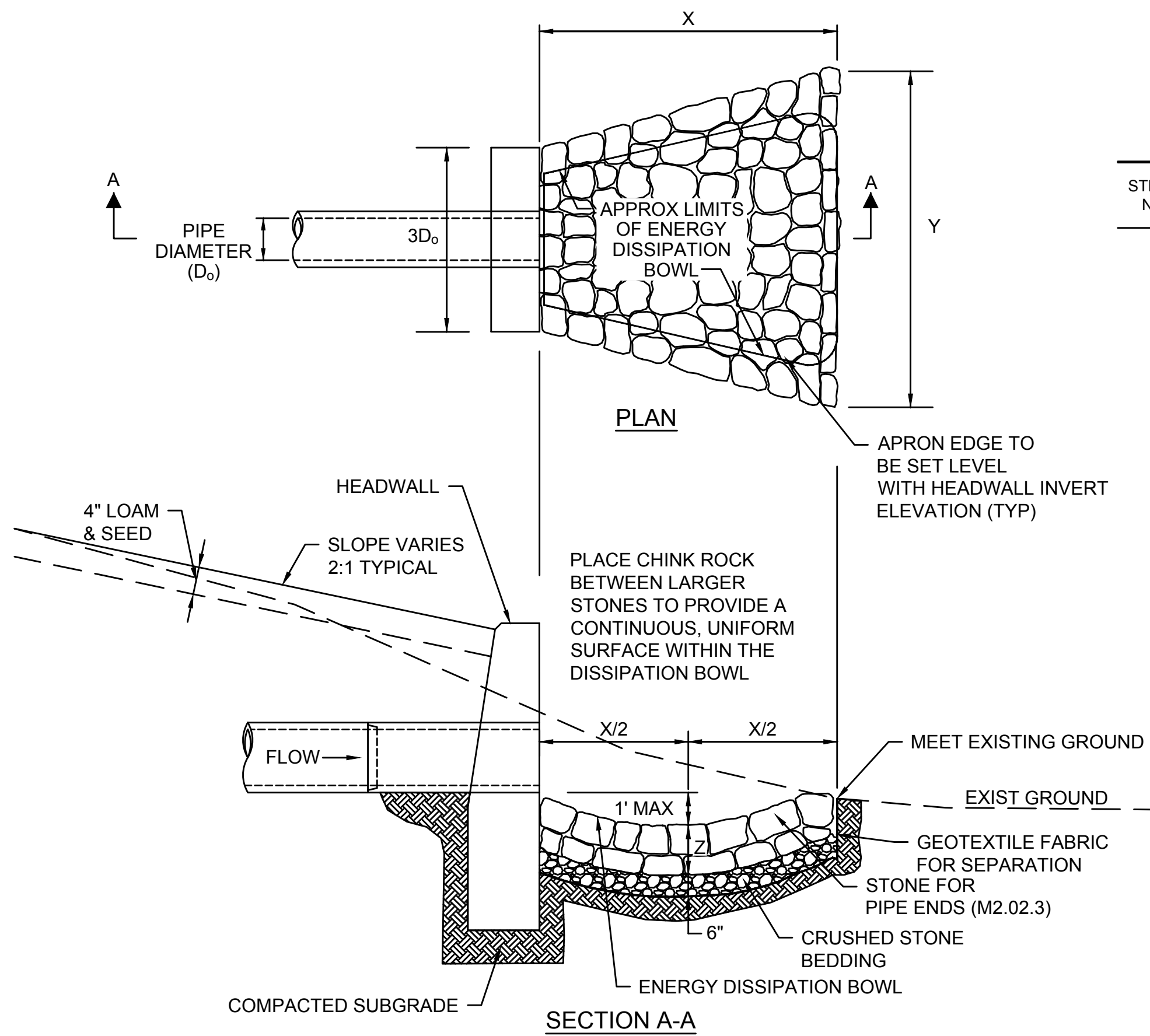


**DUCTBANK CROSSING ROADWAY**  
SCALE: N.T.S.

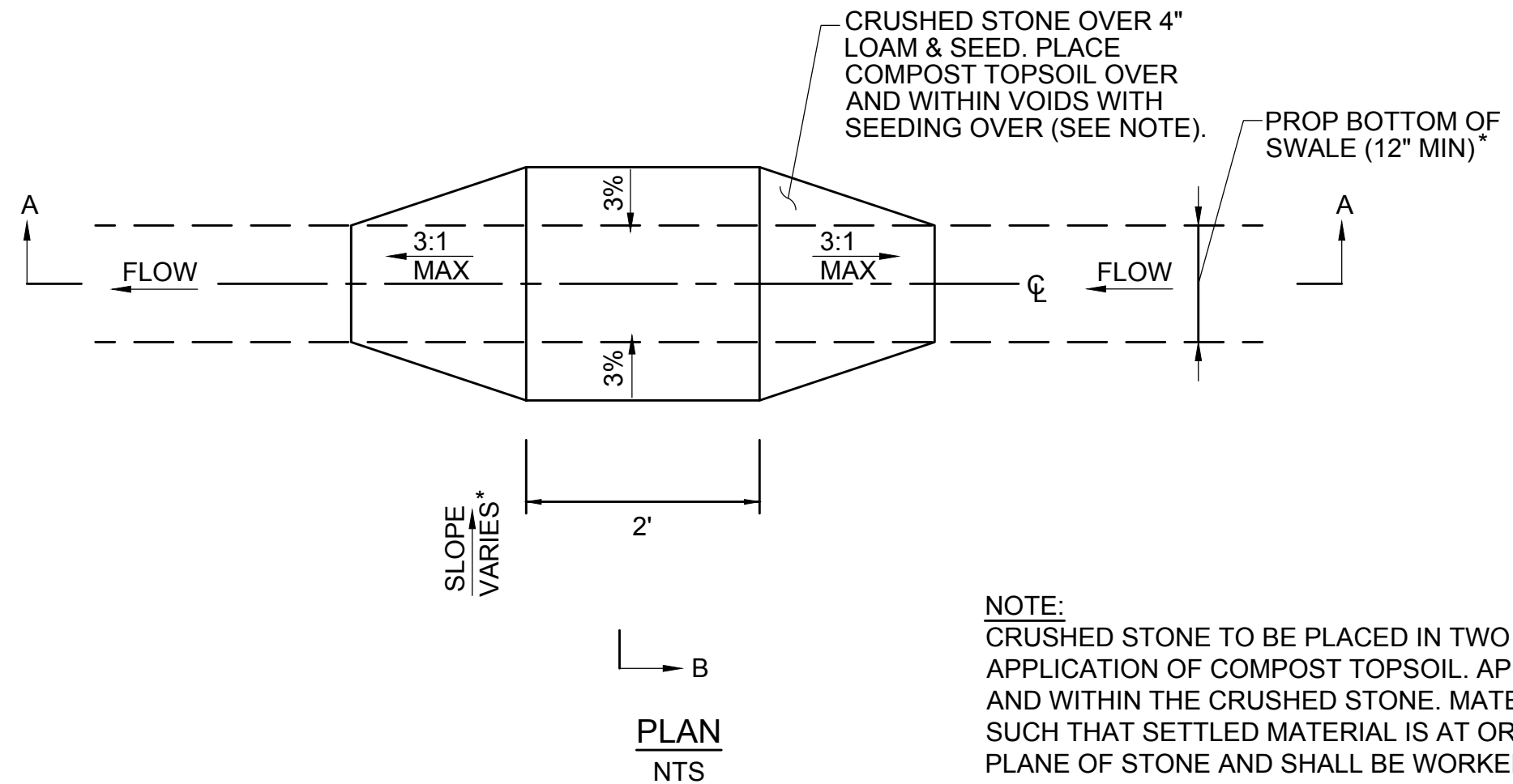
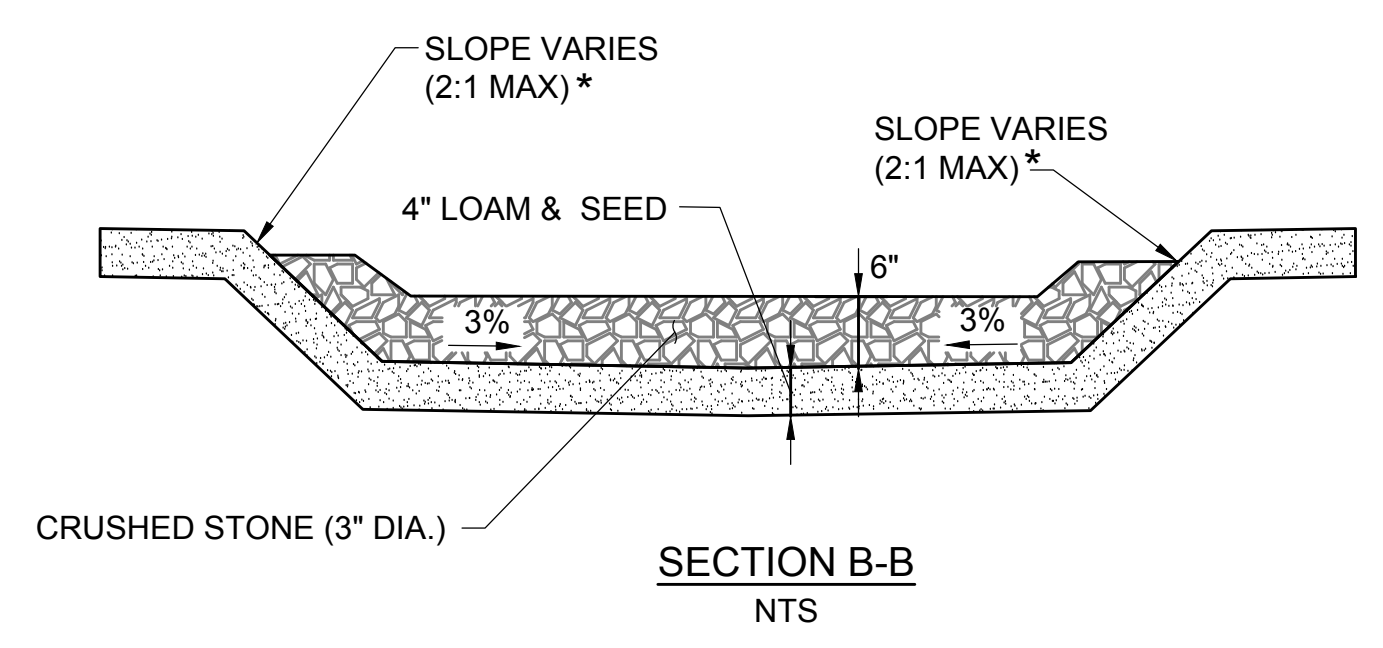
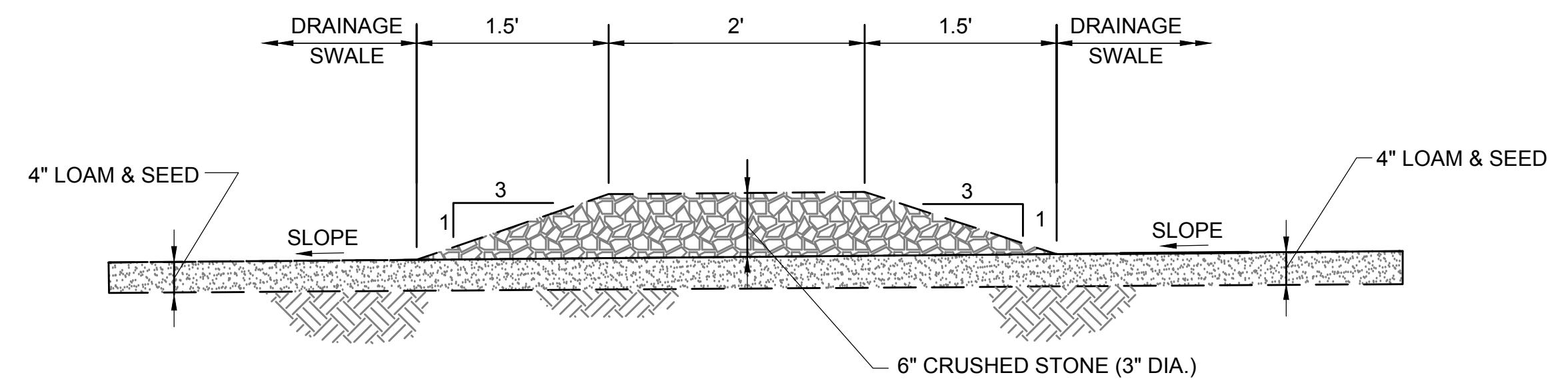


**TRENCH DETAIL**  
SCALE: N.T.S.

| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| <b>REVISION</b>                                   |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CONSTRUCTION DETAILS                              |                   |             |              |              |
| PLAN 122 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |



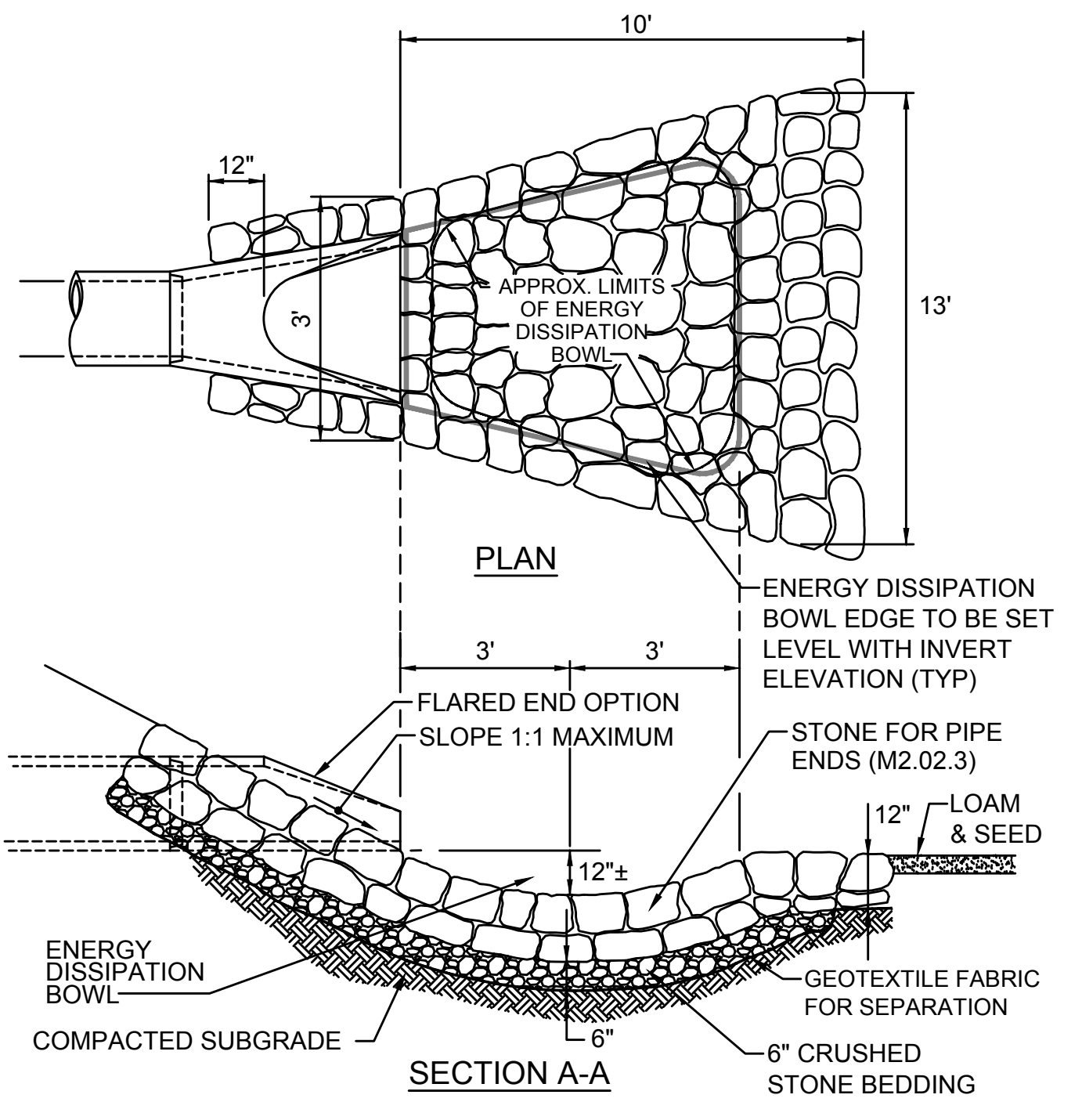
| RIPRAP STONE     |        |        |        |                       |
|------------------|--------|--------|--------|-----------------------|
| STRUCTURE NUMBER | X (FT) | Y (FT) | Z (IN) | STONE DIA. (D50) (IN) |
| 4                | 10     | 16     | 12     | 6                     |
| 6                | 10     | 16     | 12     | 6                     |
| 10               | 4      | 5.7    | 12     | 6.5                   |
| 14               | 6      | 8.5    | 12     | 6.5                   |



NOTE:  
CRUSHED STONE TO BE PLACED IN TWO LIFTS TO ALLOW FOR THE APPLICATION OF COMPOST TOPSOIL. APPLY COMPOST TOPSOIL OVER AND WITHIN THE CRUSHED STONE. MATERIAL SHOULD BE PLACED SUCH THAT SETTLED MATERIAL IS AT OR SLIGHTLY BELOW SURFACE PLANE OF STONE AND SHALL BE WORKED INTO THE VOIDS OF THE CRUSHED STONE. COMPOST TOPSOIL SHALL BE RAKED BY HAND.

**STONE FOR PIPE ENDS**

SCALE: N.T.S.



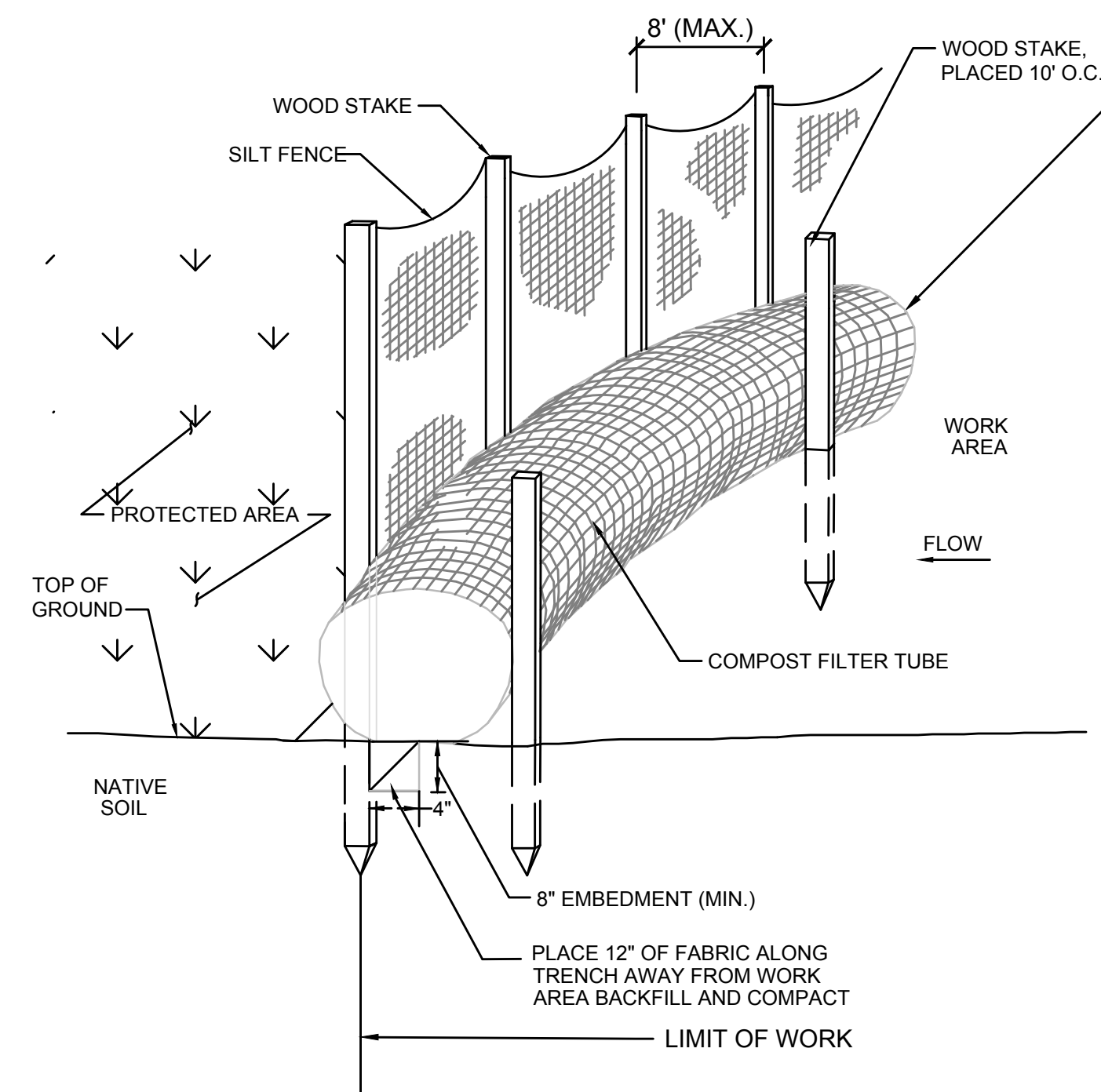
**STONE PROTECTION AT FLARED END (STRUCTURE NUMBER 10)**

SCALE: N.T.S.

**CHECK DAM**

SCALE: N.T.S.

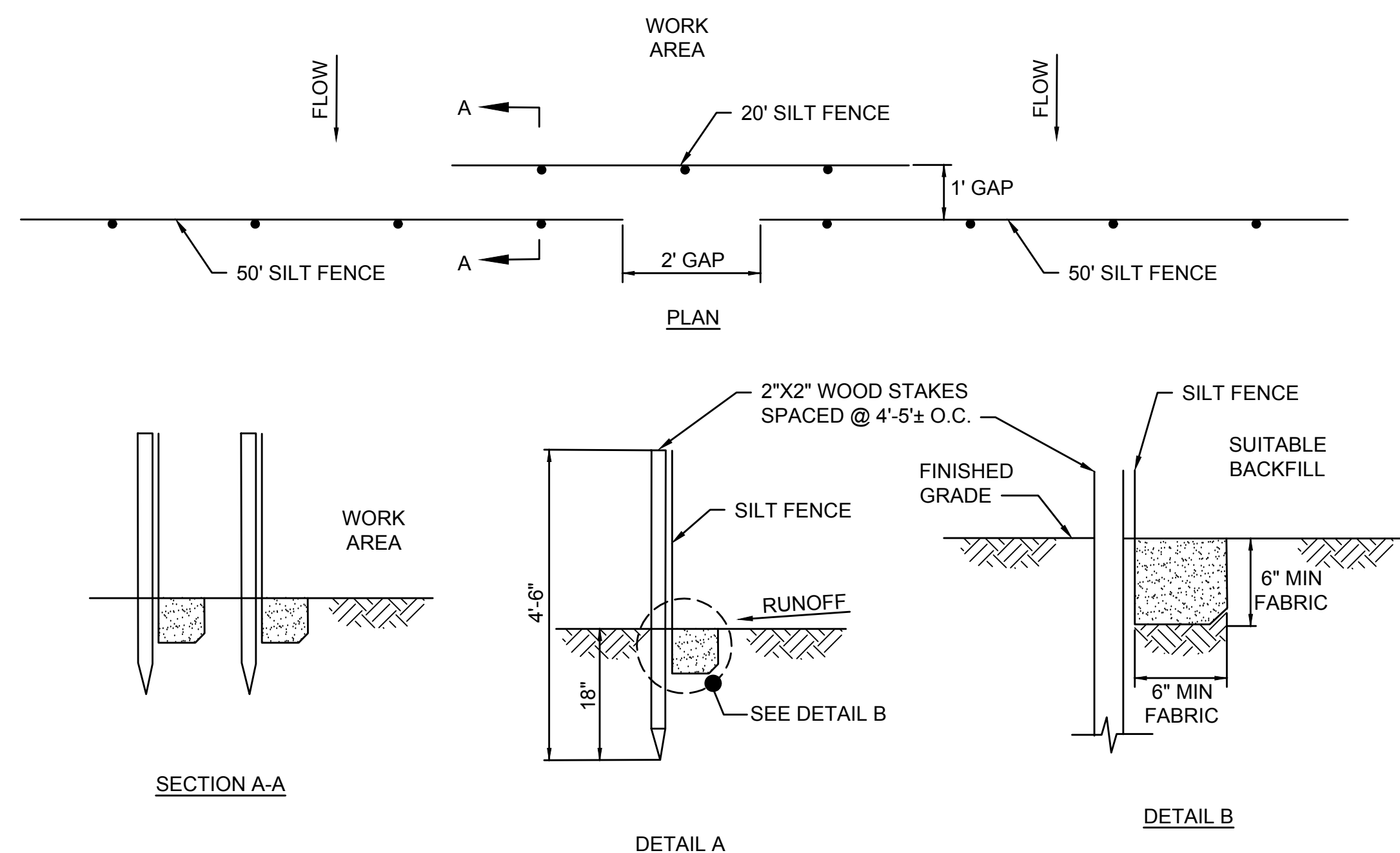
|   |                   |             |              |                 |             |       |
|---|-------------------|-------------|--------------|-----------------|-------------|-------|
| NO.   |                   | DESCRIPTION |              | BY              | DATE        | APPR. |
| REVISION  |                   |             |              |                 |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |              |                 |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |                 |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |                 |             |       |
| CONSTRUCTION DETAILS                              |                   |             |              |                 |             |       |
| PLAN 123 OF 316                                   |                   |             |              |                 |             |       |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | A.P.P.R.<br>MES | DRAWING NO. | REV.  |



- COMPOST FILTER TUBE  
MINIMUM 12 INCHES IN DIAMETER WITH AN  
EFFECTIVE HEIGHT OF 9.5 INCHES
- WOOD STAKE,  
PLACED 10' O.C.
- 8" (MAX.)
- WOOD STAKE
- SILT FENCE
- PROTECTED AREA
- TOP OF GROUND
- NATIVE SOIL
- COMPOST FILTER TUBE
- WORK AREA
- FLOW
- 8" EMBEDMENT (MIN.)
- PLACE 12" OF FABRIC ALONG  
TRENCH AWAY FROM WORK  
AREA BACKFILL AND COMPACT
- LIMIT OF WORK
- NOTES:
1. FILTER CLOTH SHALL BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES, AND POSTS SHALL BE SPACED EVERY 10 FEET.
  2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
  3. ENTRENCH SILT FENCE BUT NOT COMPOST FILTER TUBE. INSPECTIONS SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY.
  4. TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER. TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.
  5. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
  6. PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

**COMPOST FILTER TUBE AND SILT FENCE DETAIL - TYPE A EROSION CONTROL BARRIER**

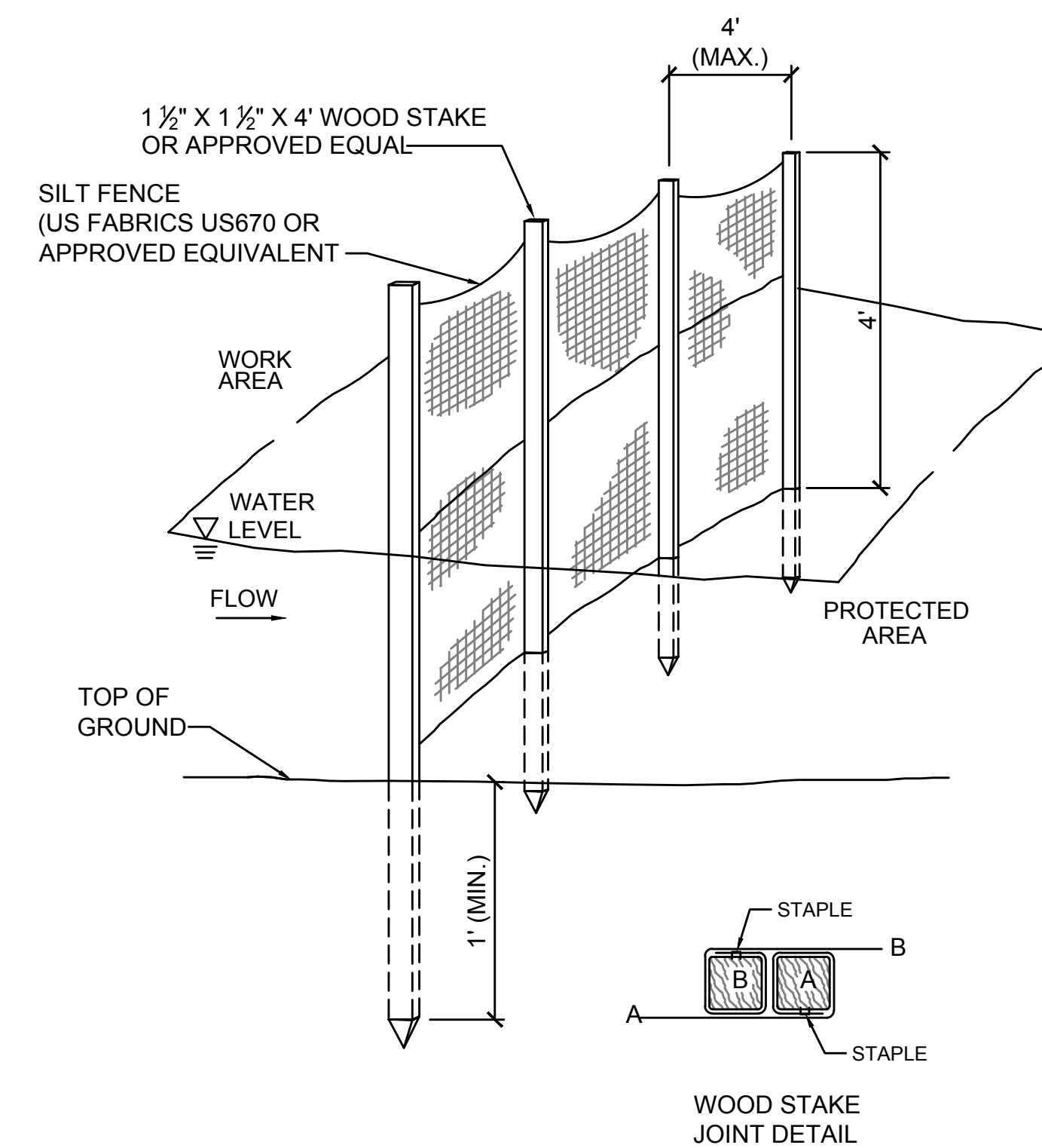
SCALE: N.T.S.



- NOTES:
1. SYNCOPATED SILT FENCE SHALL BE USED WITHIN ALL PRIORITY HABITAT AREAS AND WITHIN 450' OF VERNAL POOLS.
  2. INSTALL GAP AFTER EVERY 50' OF EROSION CONTROL BARRIER.

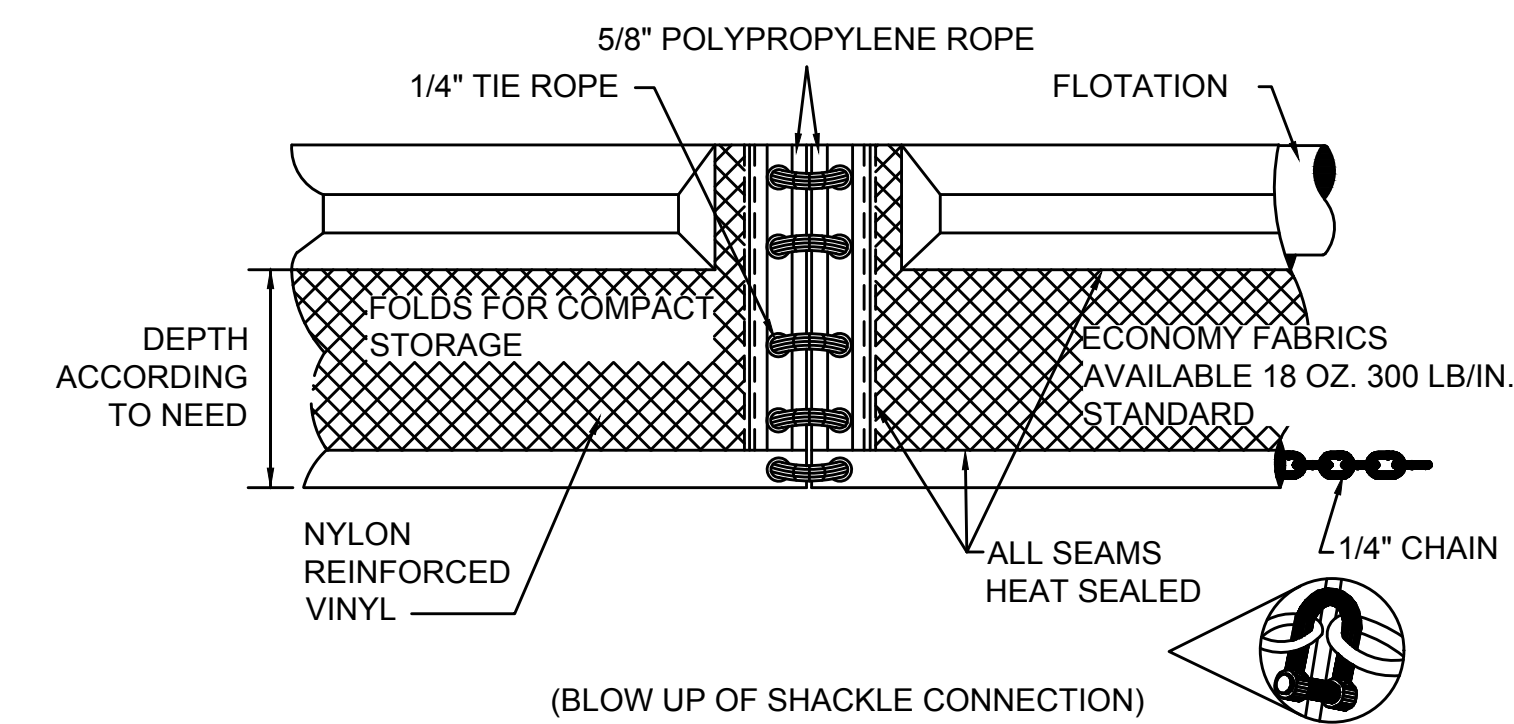
**SYNCOPATED SILT FENCE DETAIL - TYPE B EROSION CONTROL BARRIER**

SCALE: N.T.S.



**4' HIGH SILT FENCE BARRIER DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 1)**

SCALE: N.T.S.



**TURBIDITY CURTAIN DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 2)**

SCALE: N.T.S.

| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| <b>REVISION</b>                                   |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CONSTRUCTION DETAILS                              |                   |             |              |              |
| PLAN 124 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

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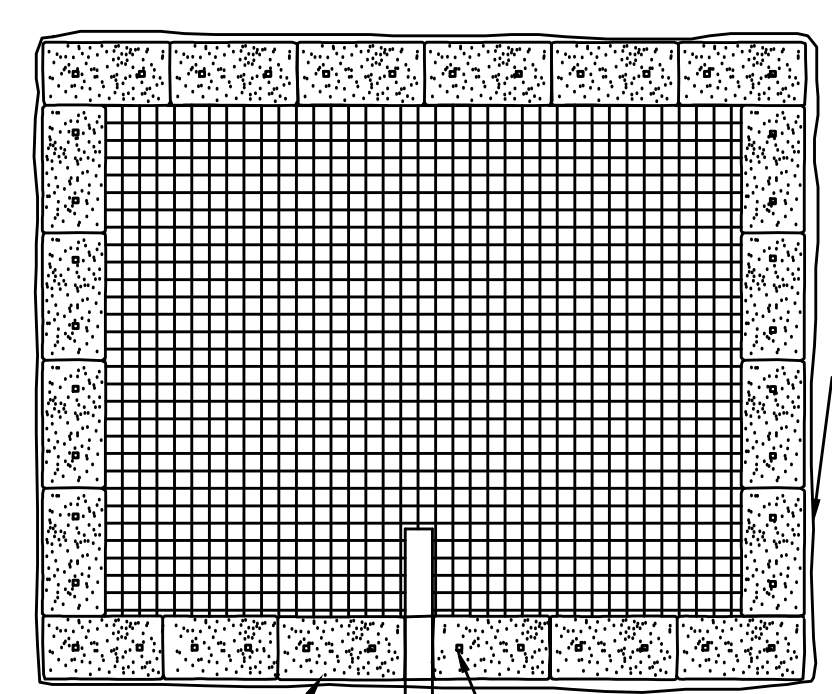
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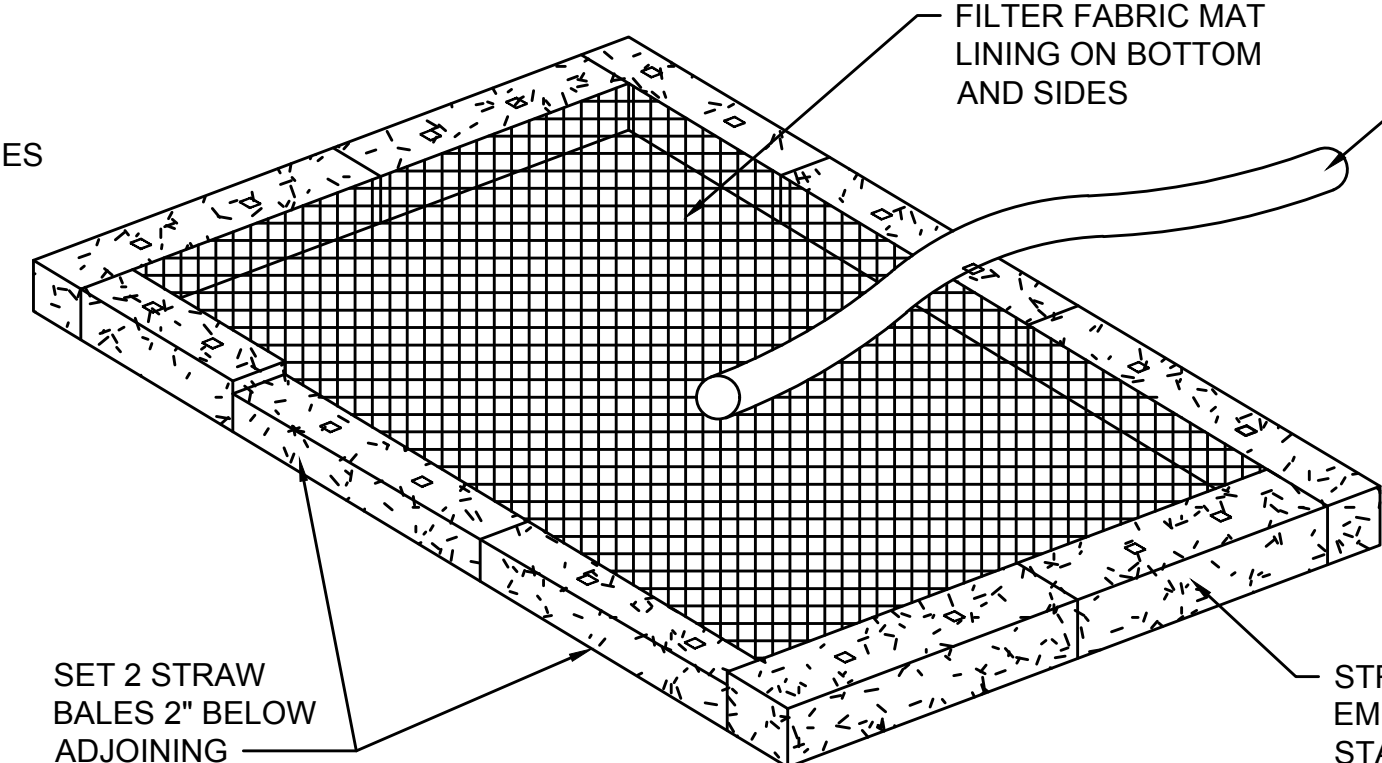
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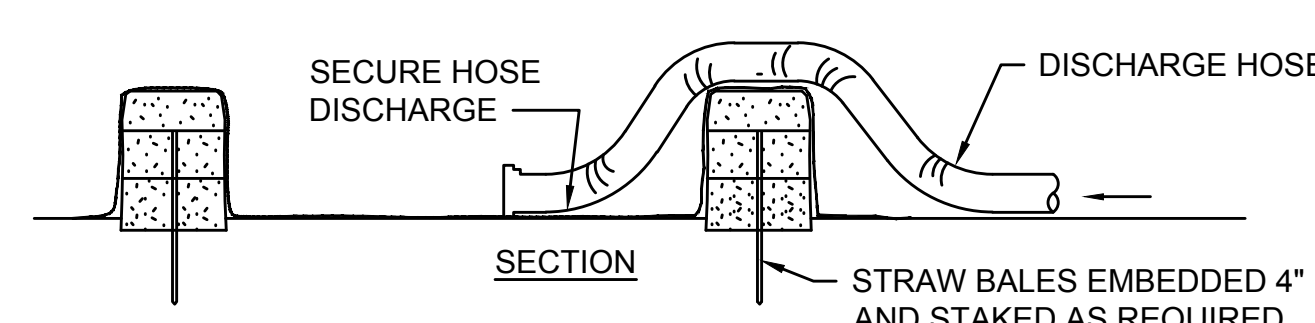
G



STAKED BALES  
WOODEN STAKES, 2 PER BALE  
DISCHARGE HOSE  
PLAN VIEW



FILTER FABRIC MAT LINING ON BOTTOM AND SIDES  
PUMP DISCHARGE HOSE  
SET 2 STRAW BALES 2" BELOW ADJOINING  
STRAW BALES EMBEDDED 4" AND STAKED AS REQUIRED

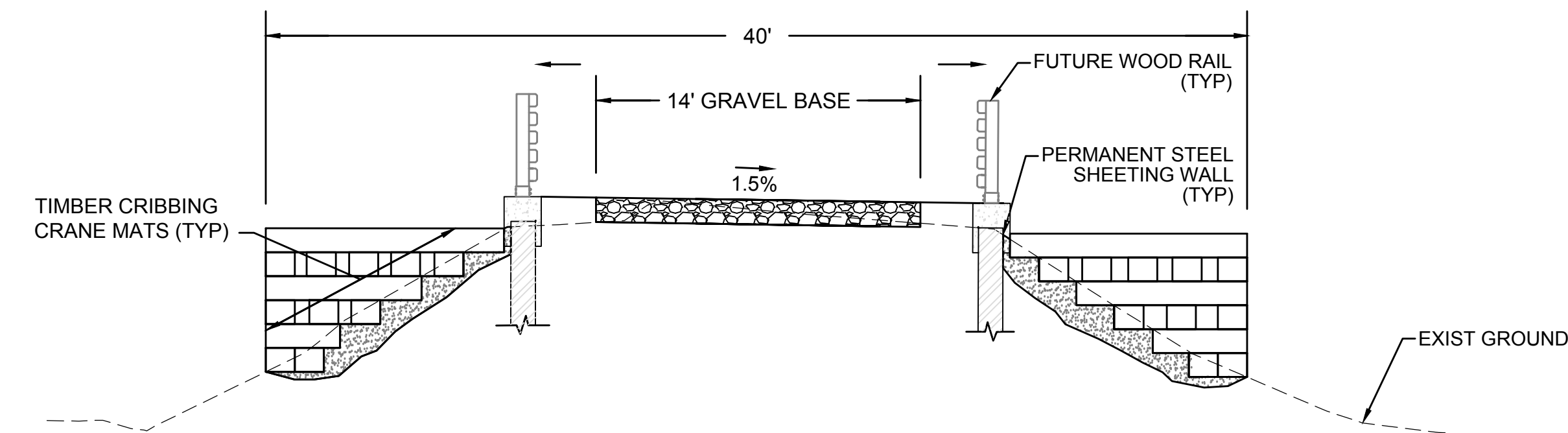


SECTION  
SECURE HOSE DISCHARGE  
DISCHARGE HOSE  
STRAW BALES EMBEDDED 4" AND STAKED AS REQUIRED

NOTE:  
PLACE DEWATERING/PUMPING SETTLING BASINS IN A WELL-VEGETATED AREA, OUTSIDE OF WETLANDS WHENEVER PRACTICABLE.

**TYPICAL DEWATERING BASIN**

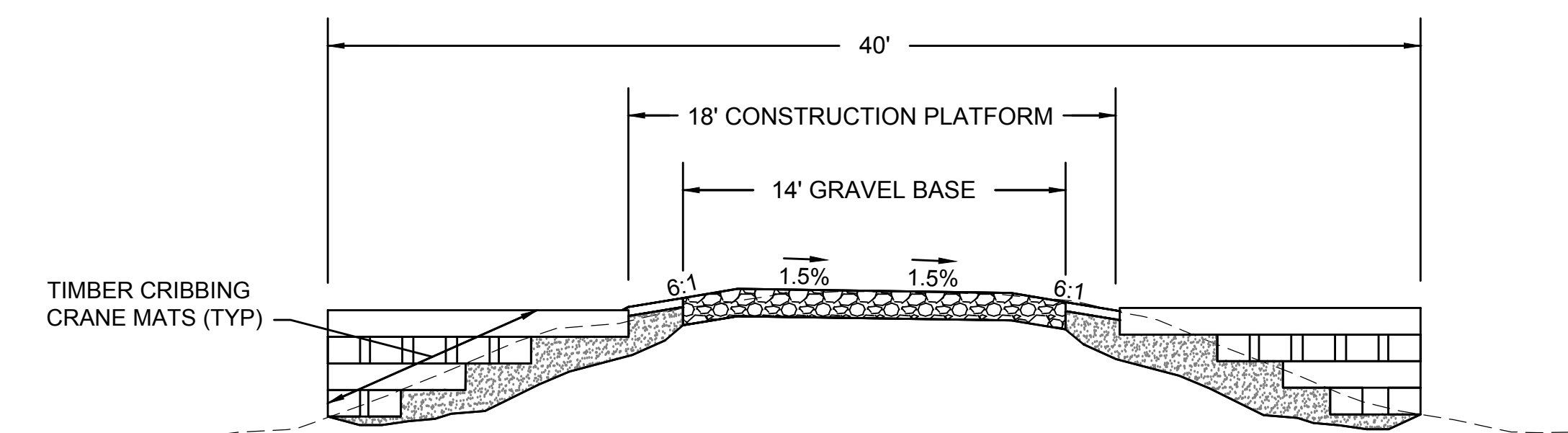
SCALE: N.T.S.



NOTES:  
1. THIS DETAIL IS CONCEPTUAL. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.  
2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE STEEL SHEETING WALLS TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.  
3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

**CONCEPTUAL CRANE MAT SECTION WITH STEEL SHEETING**

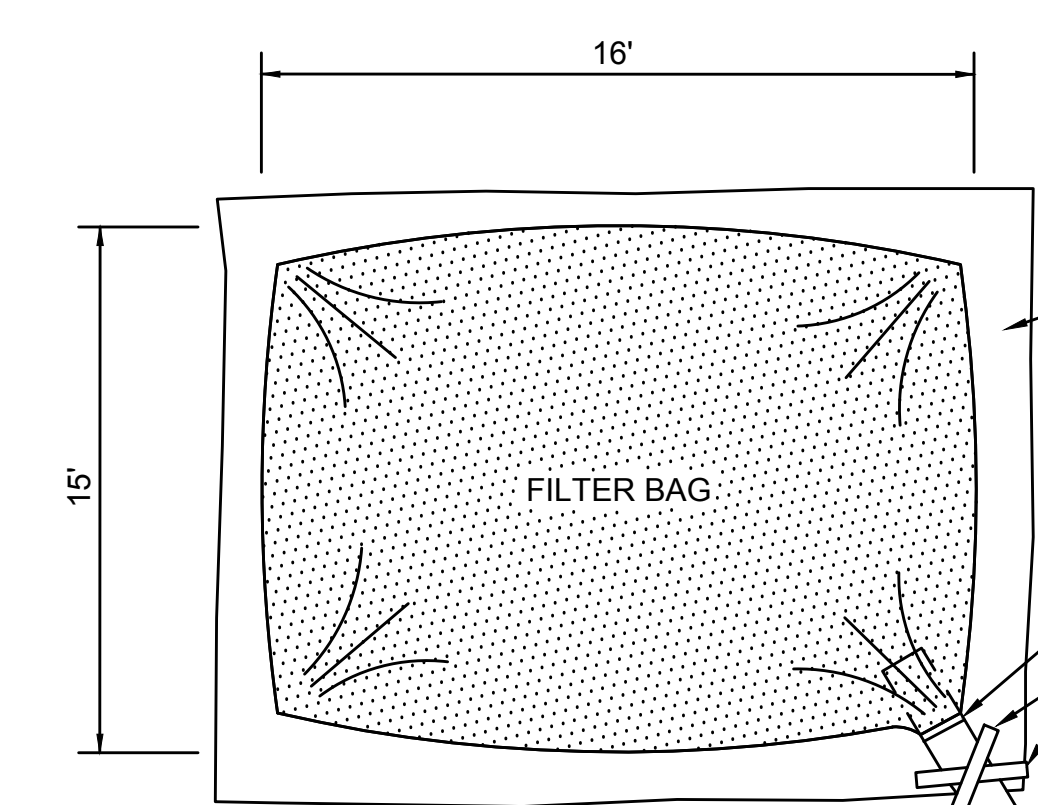
SCALE: N.T.S.



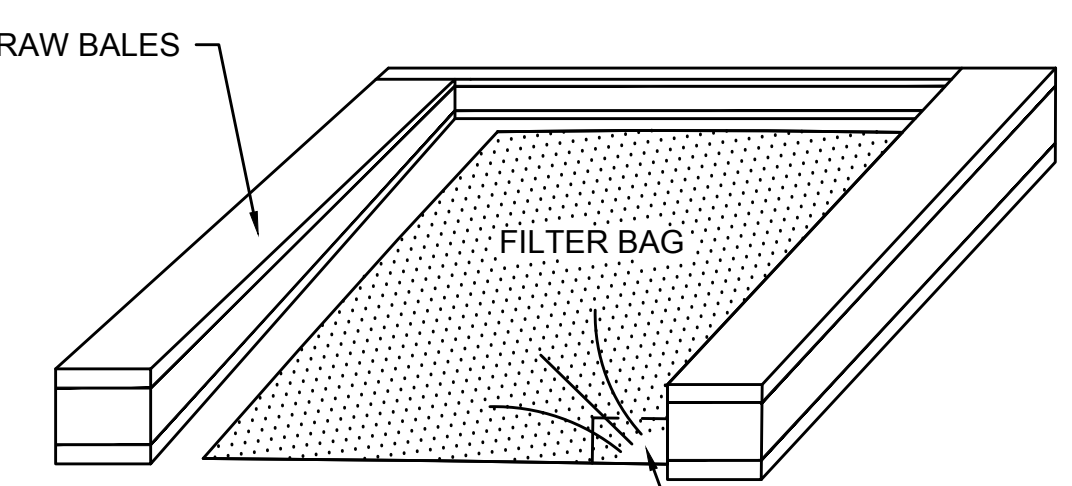
NOTES:  
1. THIS DETAIL IS CONCEPTUAL. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.  
2. AREA DISTURBED BY CRANE MATS OUTSIDE THE LIMITS OF THE 18' CONSTRUCTION PLATFORM TO BE RESTORED. SEE CRANE MAT RESTORATION DETAILS ON SHEET 130.  
3. GEOTEXTILE FABRIC TO BE INSTALLED UNDERNEATH AND WRAPPED AROUND CRANE MATS. GEOTEXTILE FABRIC MUST OVERLAP AT THE EDGES AND BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

**CONCEPTUAL CRANE MAT SECTION WITHOUT STEEL SHEETING**

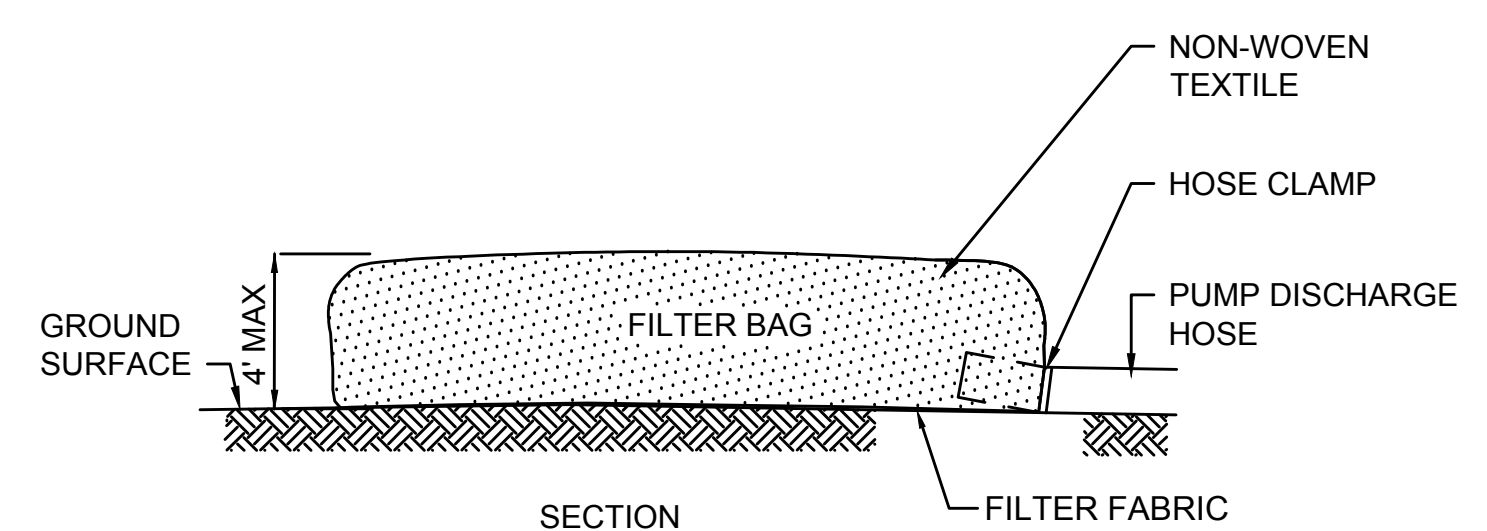
SCALE: N.T.S.



PLAN VIEW  
16'  
16'  
SET ON FILTER FABRIC  
FILTER BAG  
HOSE CLAMP  
SECURE DISCHARGE HOSE  
PUMP DISCHARGE HOSE ONE PER FILTER BAG



PERSPECTIVE  
STRAW BALES  
FILTER BAG  
HOSE INLET



SECTION  
NON-WOVEN TEXTILE  
HOSE CLAMP  
PUMP DISCHARGE HOSE  
FILTER FABRIC  
GROUND SURFACE  
4" MAX

NOTES:  
1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.  
2. PLACE FILTER BASINS IN A WELL-VEGETATED AREA, OUTSIDE OF WETLANDS WHENEVER PRACTICABLE.

**TYPICAL DEWATERING FILTER BAGS**

SCALE: N.T.S.

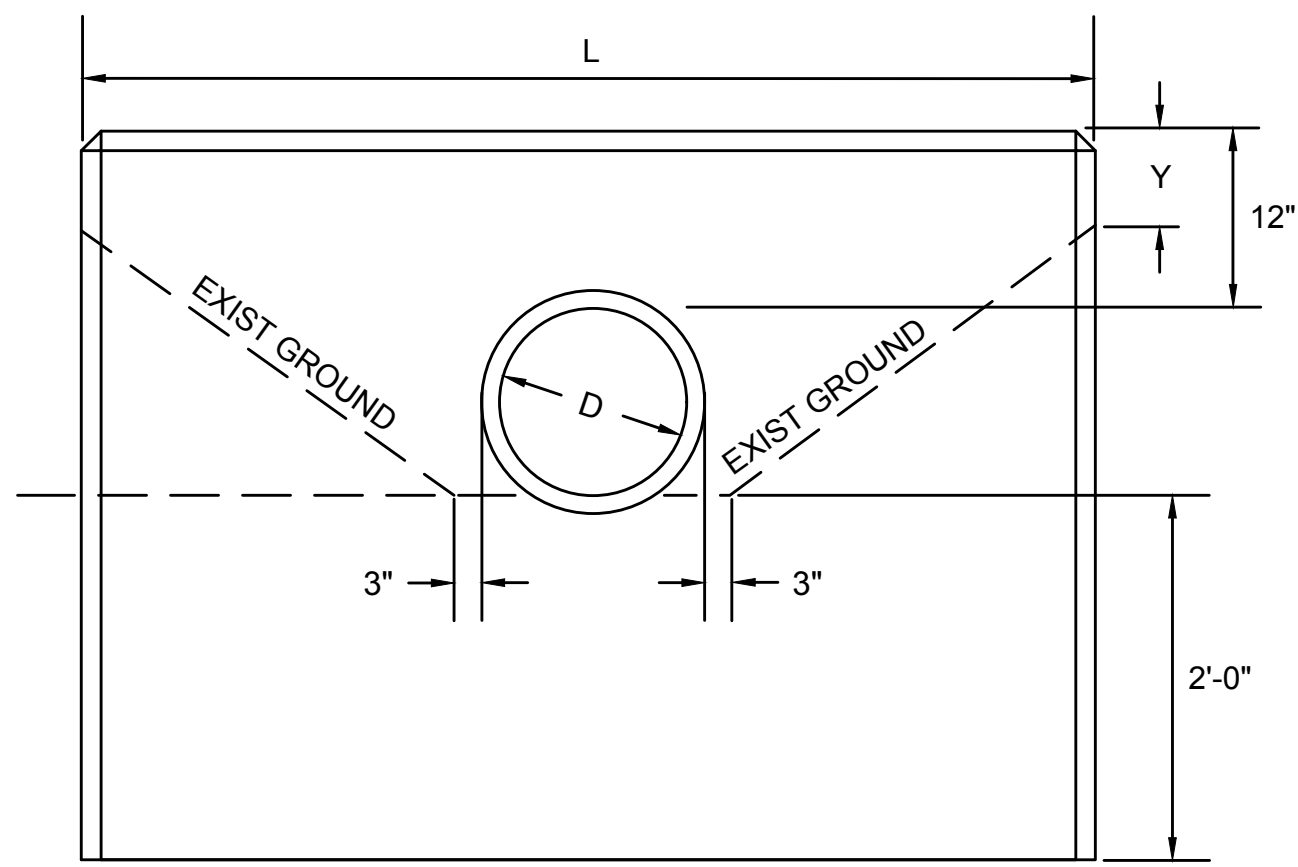
| REVISION  |                   |                 |                  |
|---|-------------------|-----------------|------------------|
| N.O.  | DESCRIPTION       | BY              | DATE             |
| <b>EVERSOURCE</b>                                 |                   |                 |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |                 |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |                 |                  |
| CONSTRUCTION DETAILS                              |                   |                 |                  |
| PLAN 125 OF 316                                   |                   |                 |                  |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS     | CHK'D.<br>SK     |
|   |                   | A.P.P.R.<br>MES | DRAWING NO. REV. |

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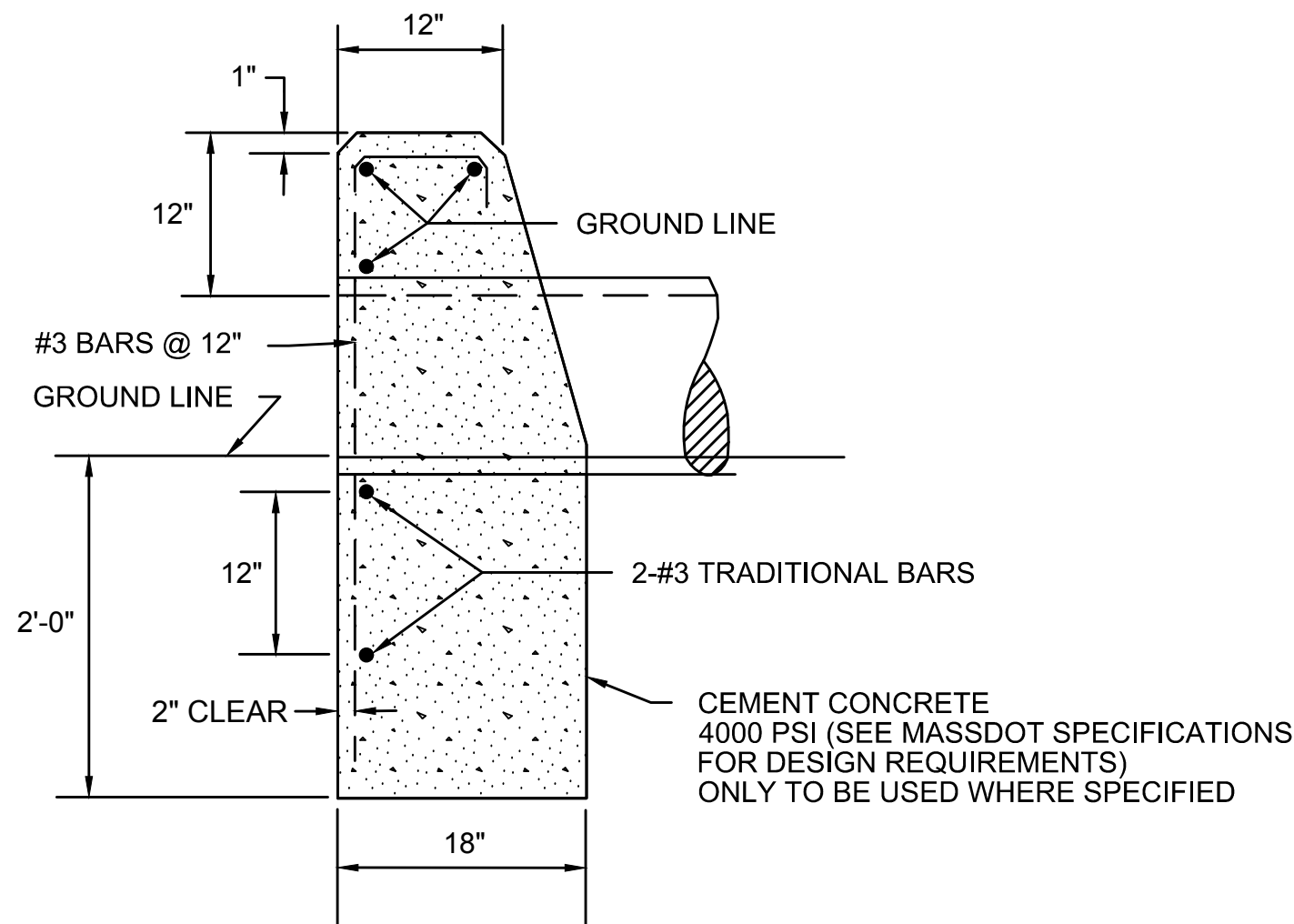
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FRONT ELEVATION



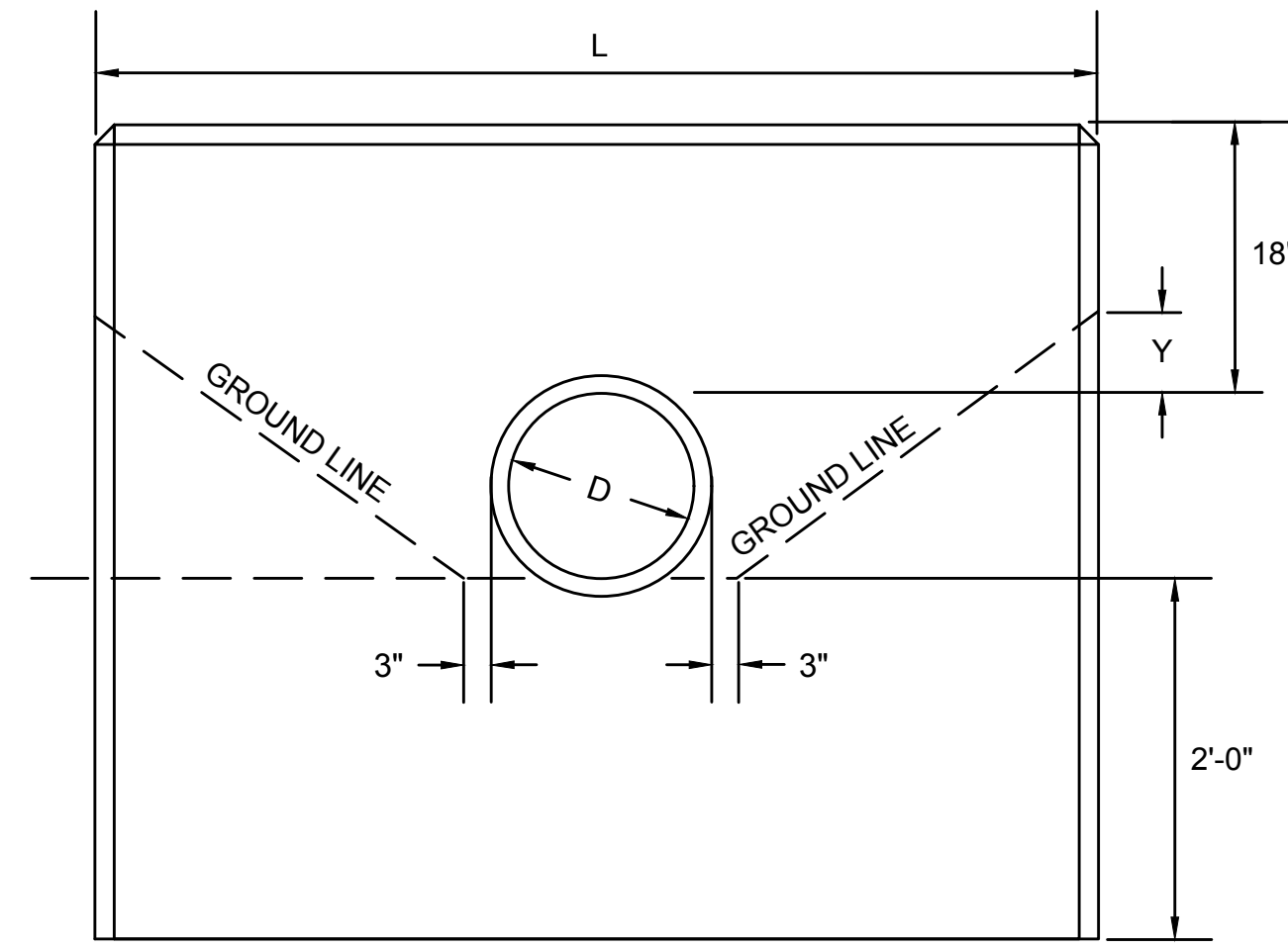
END ELEVATION

NOTES:

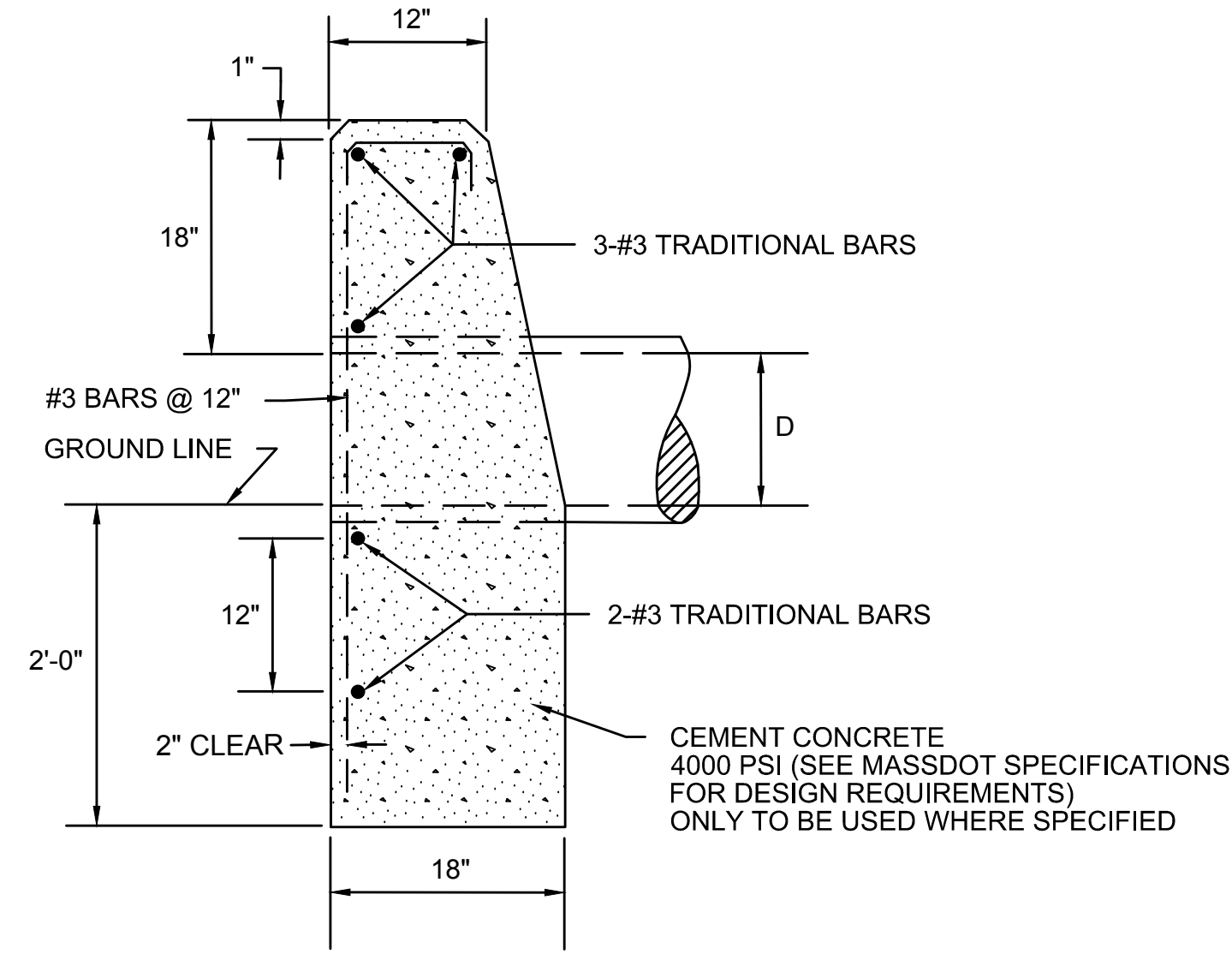
1. THIS DETAIL SHALL BE APPLIED TO THE PROPOSED 18" DRAINAGE PIPE AT STATION 738+77.
2. SEE MASSDOT CONST STD 206.4.1 FOR THE VALUES OF L AND Y FOR VARIOUS PIPE DIAMETERS.

HEADWALL WITH 12" REVEAL ABOVE PIPE

SCALE: N.T.S.



FRONT ELEVATION



END ELEVATION

NOTES:

1. THIS DETAIL SHALL BE APPLIED TO THE PROPOSED 24" DRAINAGE PIPE AT STATION 713+63.
2. SEE MASSDOT CONST STD 206.4.1 FOR THE VALUES OF L AND Y FOR VARIOUS PIPE DIAMETERS.

HEADWALL WITH 18" REVEAL ABOVE PIPE

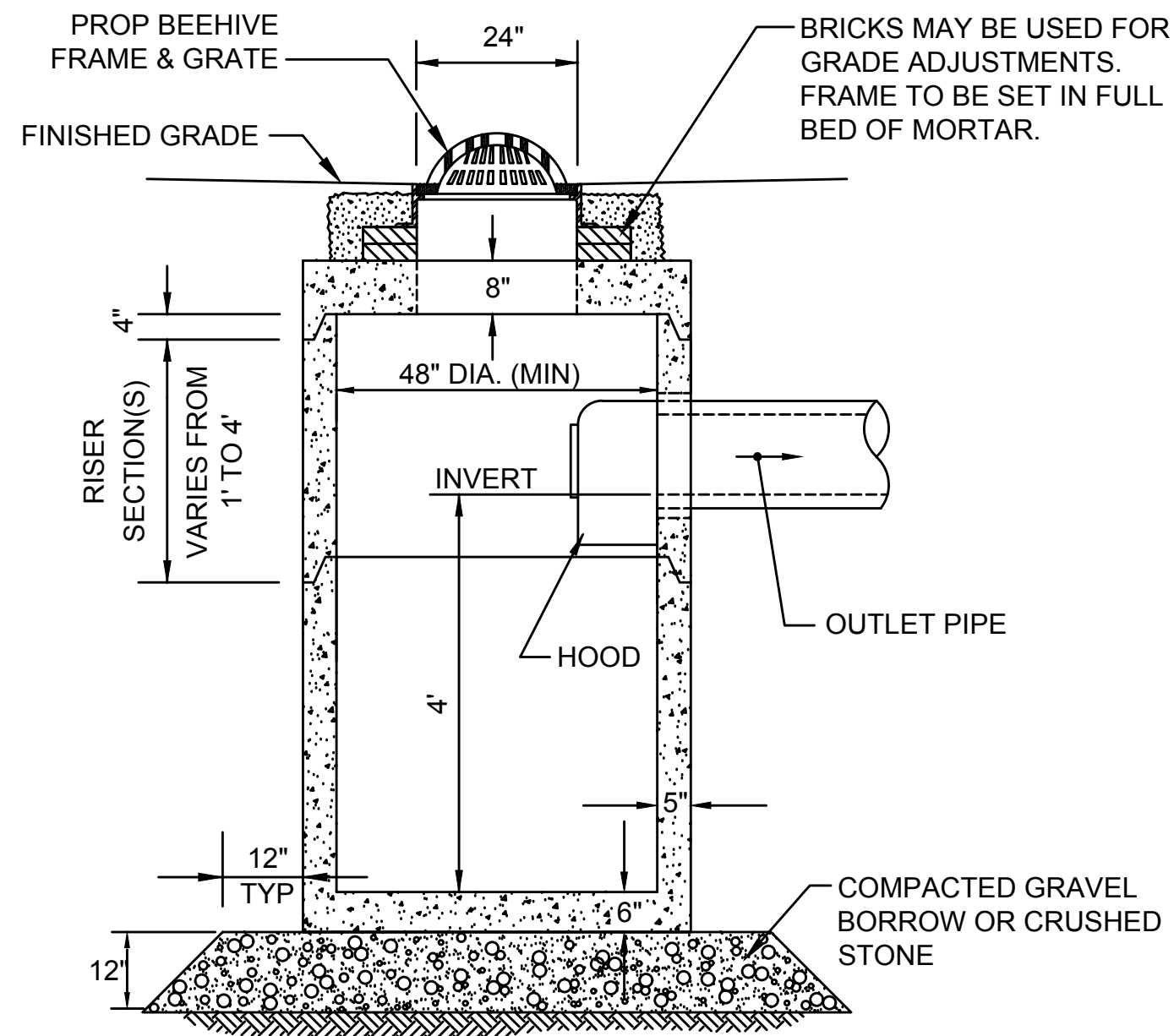
SCALE: N.T.S.

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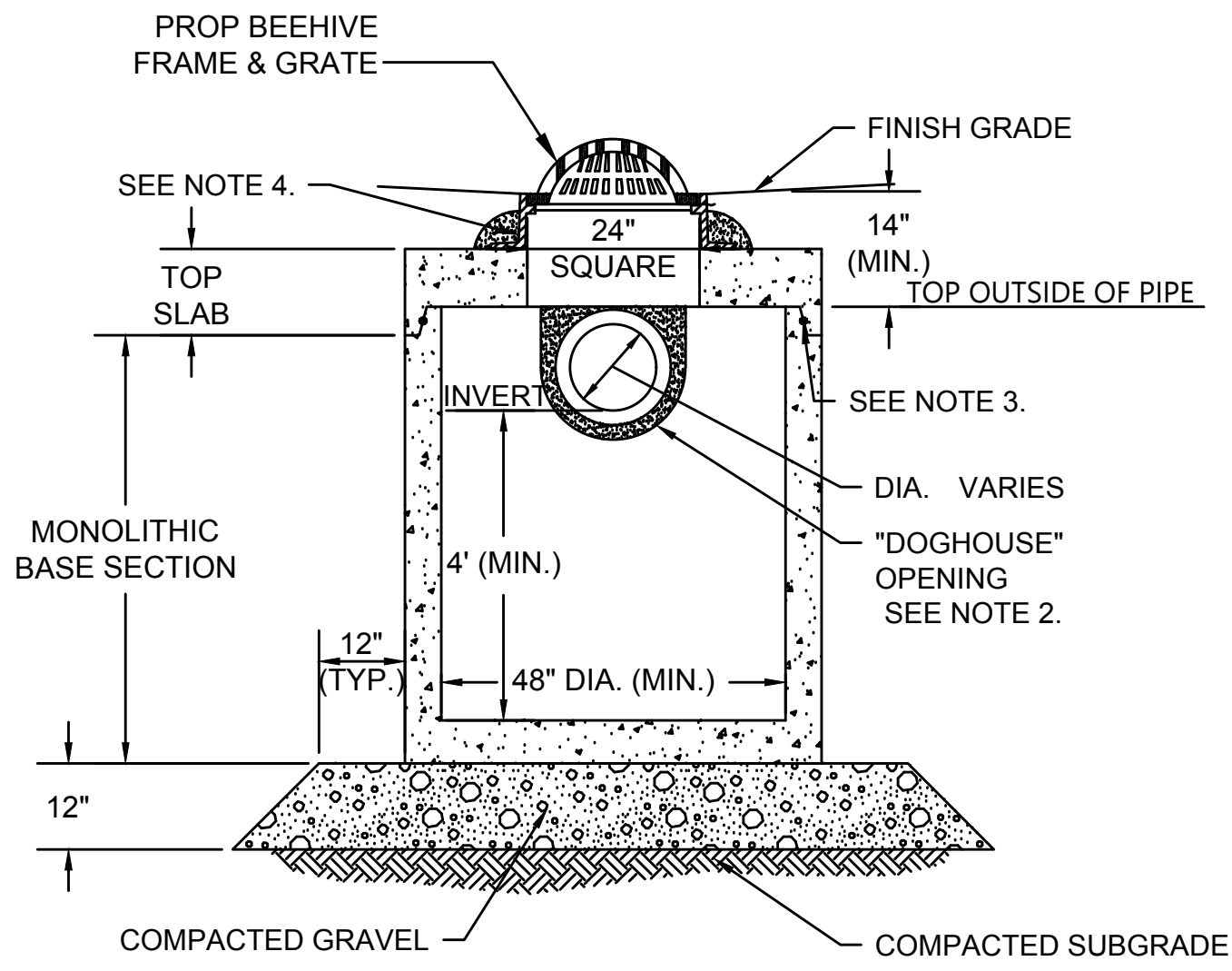


NOTE:

6" MINIMUM SPACE FROM TOP OF KNOCKOUT TO BOTTOM OF ROOF SLAB JOINT REQUIRED WHEN USING HOODS.

DEEP SUMP CATCH BASIN WITH HOOD (CB)

SCALE: N.T.S.

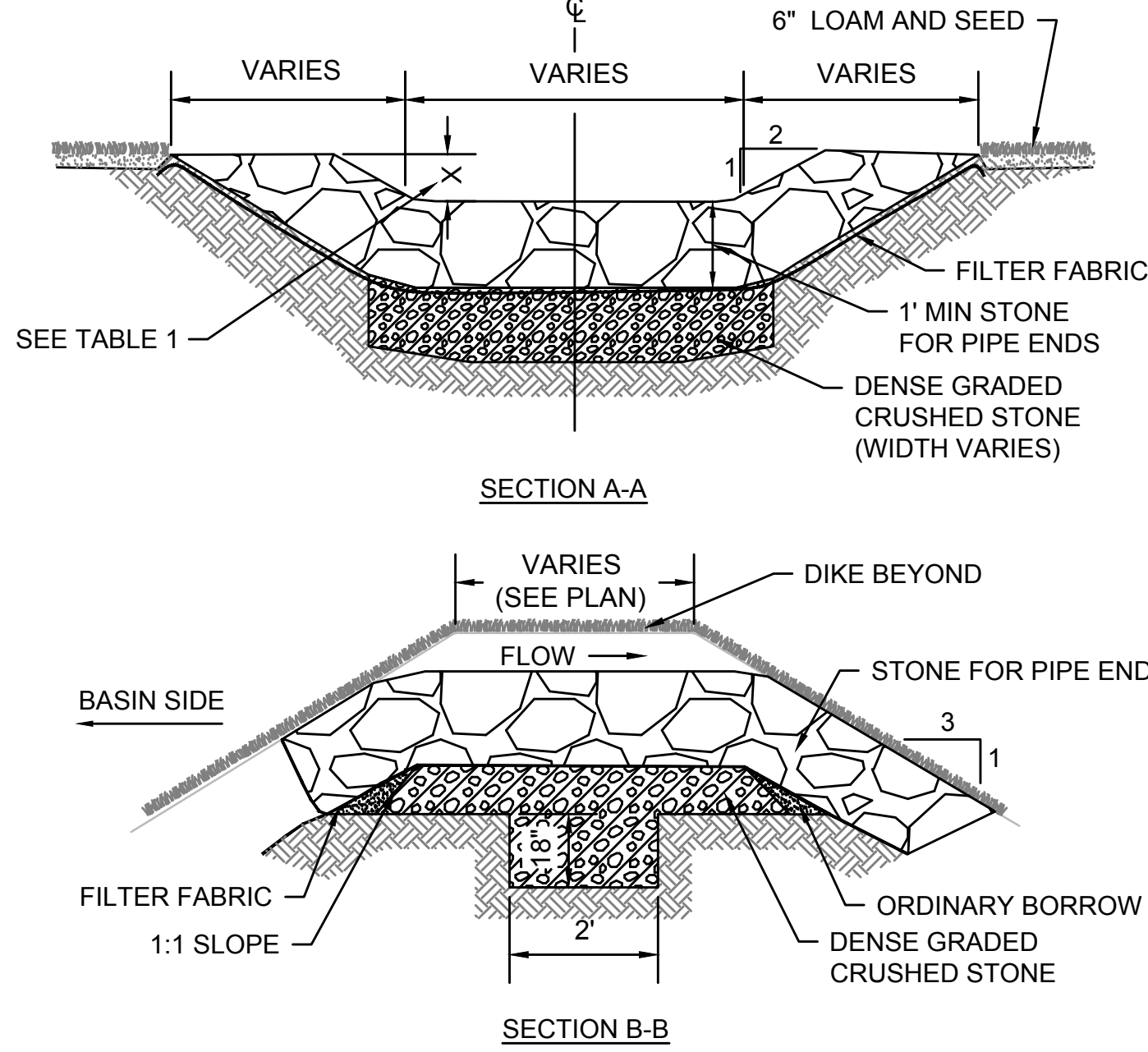


NOTES:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-10 LOADING.
2. PROVIDE DOGHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

CATCH BASIN WITH SHALLOW COVER (SHALLOW CB)

SCALE: N.T.S.

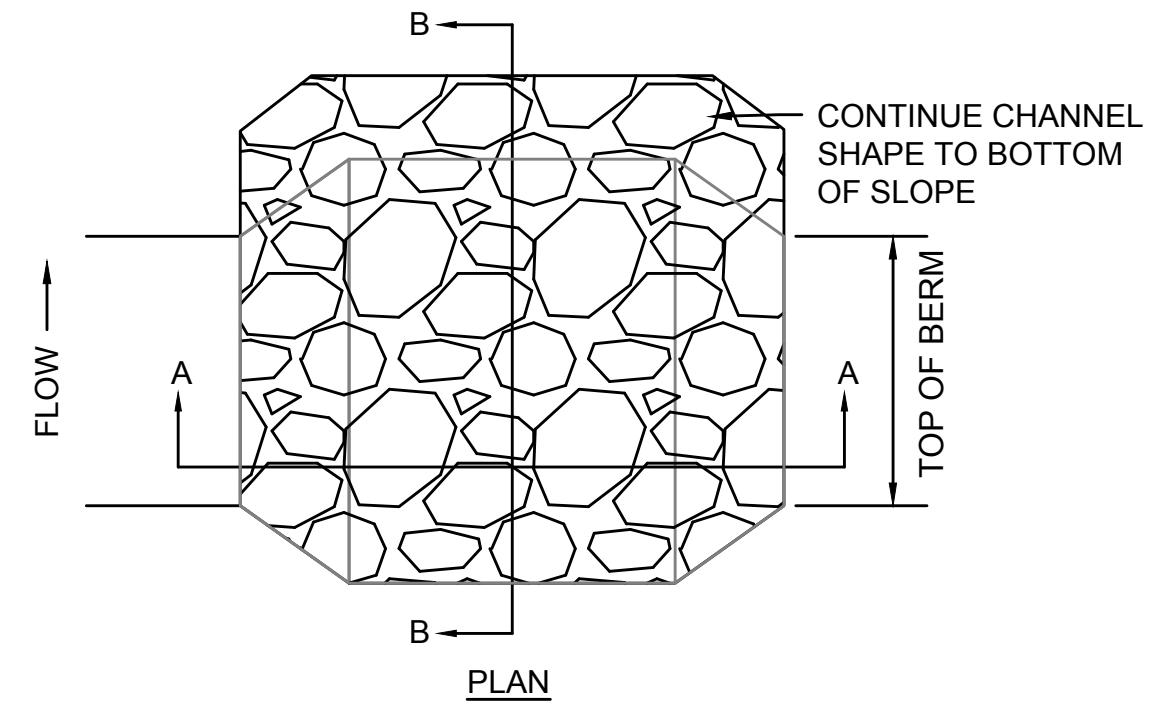


OVERFLOW STONE SWALE

SCALE: N.T.S.

TABLE 1

| BMP NUMBER | X (FT) |
|------------|--------|
| P-6.2      | 0.2    |
| P-7.1      | 0.5    |



| NO.   |                   | DESCRIPTION | BY           | DATE         | APPR.            |
|---|-------------------|-------------|--------------|--------------|------------------|
| <b>EVERSOURCE</b>                                 |                   |             |              |              |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |                  |
| CONSTRUCTION DETAILS                              |                   |             |              |              |                  |
| PLAN 126 OF 316                                   |                   |             |              |              |                  |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. REV. |

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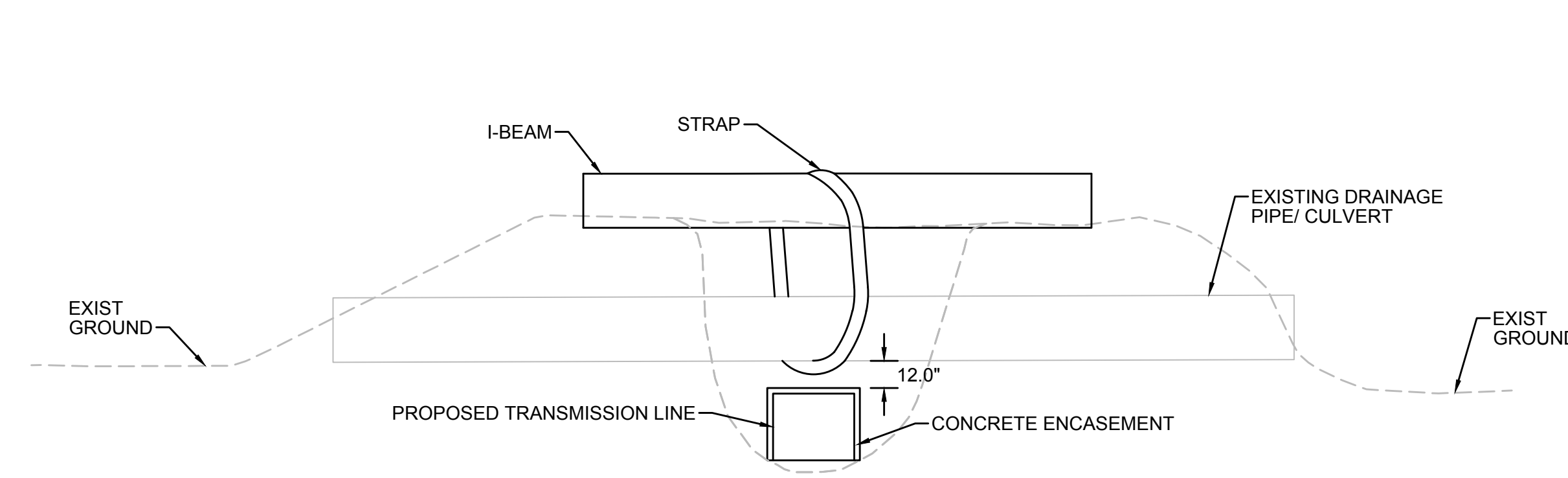
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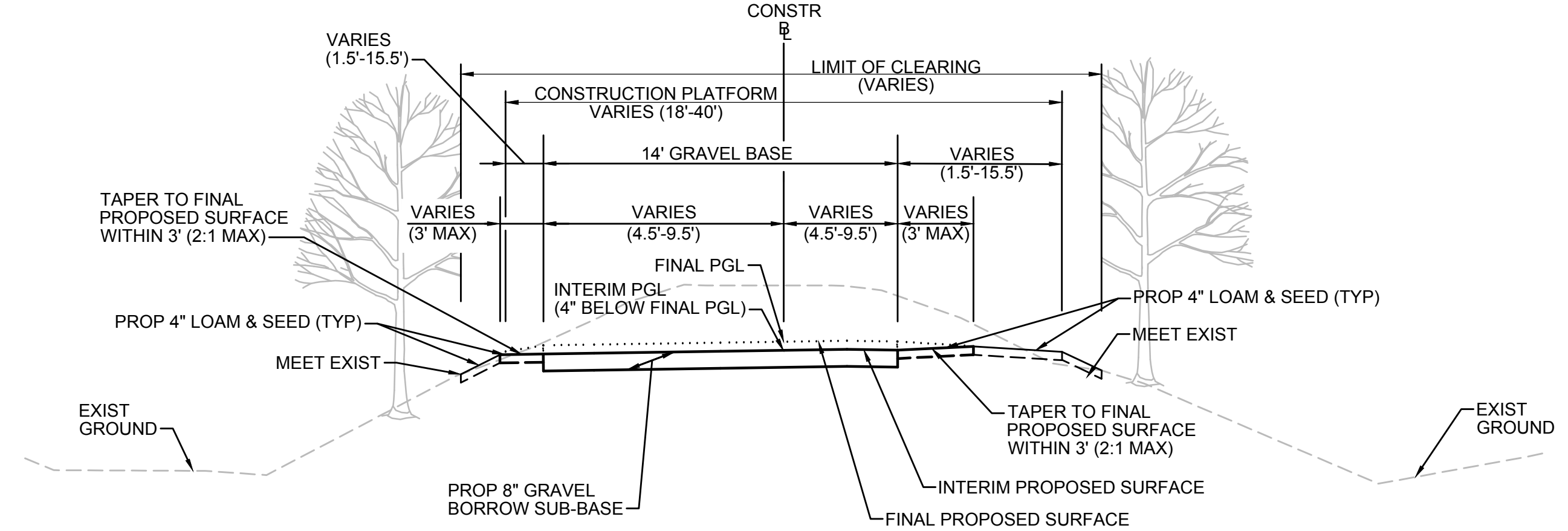
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- NOTES:**
1. CONTRACTOR TO EXCAVATE GROUND SURROUNDING EXISTING PIPE SUCH THAT NO DAMAGE TO THE PIPE IS INCURRED.
  2. EXISTING PIPE TO BE STABILIZED IN PLACE DURING CONSTRUCTION USING A STRAP SUPPORTED BY AN I-BEAM.
  3. TRANSMISSION LINE TO BE INSTALLED UNDER EXISTING PIPE WITH A MINIMUM CLEARANCE OF 12".
  4. AFTER INSTALLATION OF THE TRANSMISSION LINE IS COMPLETE, CONTRACTOR TO FILL IN THE EXCAVATED AREA WITH ORDINARY BORROW OR EXCAVATED MATERIAL AND CONSTRUCT ACCESS ROAD AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

**METHOD OF PIPE SUPPORT DURING CONSTRUCTION**

SCALE: N.T.S.



- NOTES:**
1. THIS INTERIM TYPICAL SECTION SHOWS THE TAPERING TO BE PERFORMED TO CONNECT THE GRAVEL ACCESS ROAD BEING CONSTRUCTED BY EVERSOURCE TO THE FINAL PROPOSED SURFACE FOR THE DCR MASS CENTRAL RAIL TRAIL.
  2. AT ALL ROADWAY CROSSINGS AND VEHICLE ACCESS POINTS, THE CONTRACTOR SHALL TAPER FROM 8" UP TO 12" OF GRAVEL BORROW SUB-BASE OVER A LENGTH OF 50' SUCH THAT THE INTERIM PGL MATCHES THE FINAL PGL.

**INTERIM TYPICAL SECTION**

SCALE: N.T.S.

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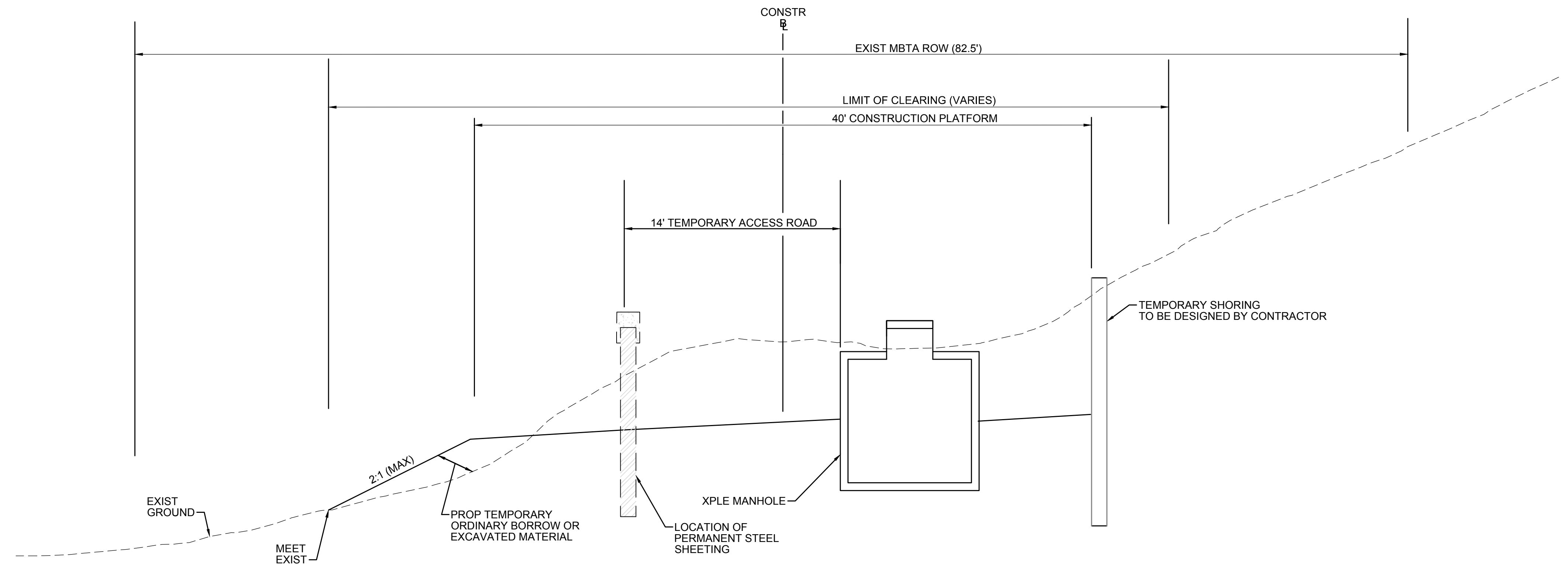
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- NOTES:**
1. THE LONGITUDINAL GRADIENT OF THE TEMPORARY ACCESS ROAD SHALL BE NO GREATER THAN 6%.
  2. ALL TEMPORARY GRADING ACTIVITIES SHALL STAY WITHIN LIMITS OF GRADING SHOWN ON THE PLANS.
  3. AFTER CONSTRUCTION OF THE TRANSMISSION LINE AND ACCESS ROAD IS COMPLETED, CONTRACTOR TO STOCKPILE ANY REMAINING TEMPORARY FILL MATERIAL AND REGRADE TO MATCH EXISTING CONDITIONS OUTSIDE OF THE PERMANENT LIMITS OF GRADING SHOWN ON THE PLANS AND CROSS-SECTIONS.
  4. CONTRACTOR TO STABILIZE ANY EXPOSED SLOPES WITH JUTE MESH FABRIC UNTIL SUCH TIME THAT THEY CAN BE RESTORED.

**TEMPORARY GRADING AT STA 120+75 TO STA 121+25**

SCALE: N.T.S.

1 2 3 4 5 6 7 8 9 10 11

| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.         |
|---|-------------------|-------------|--------------|---------------|
| <b>REVISION</b>                                   |                   |             |              |               |
| <b>EVERSOURCE</b>                                 |                   |             |              |               |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |               |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |               |
| CONSTRUCTION DETAILS                              |                   |             |              |               |
| PLAN 127 OF 316                                   |                   |             |              |               |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APP'R.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |               |

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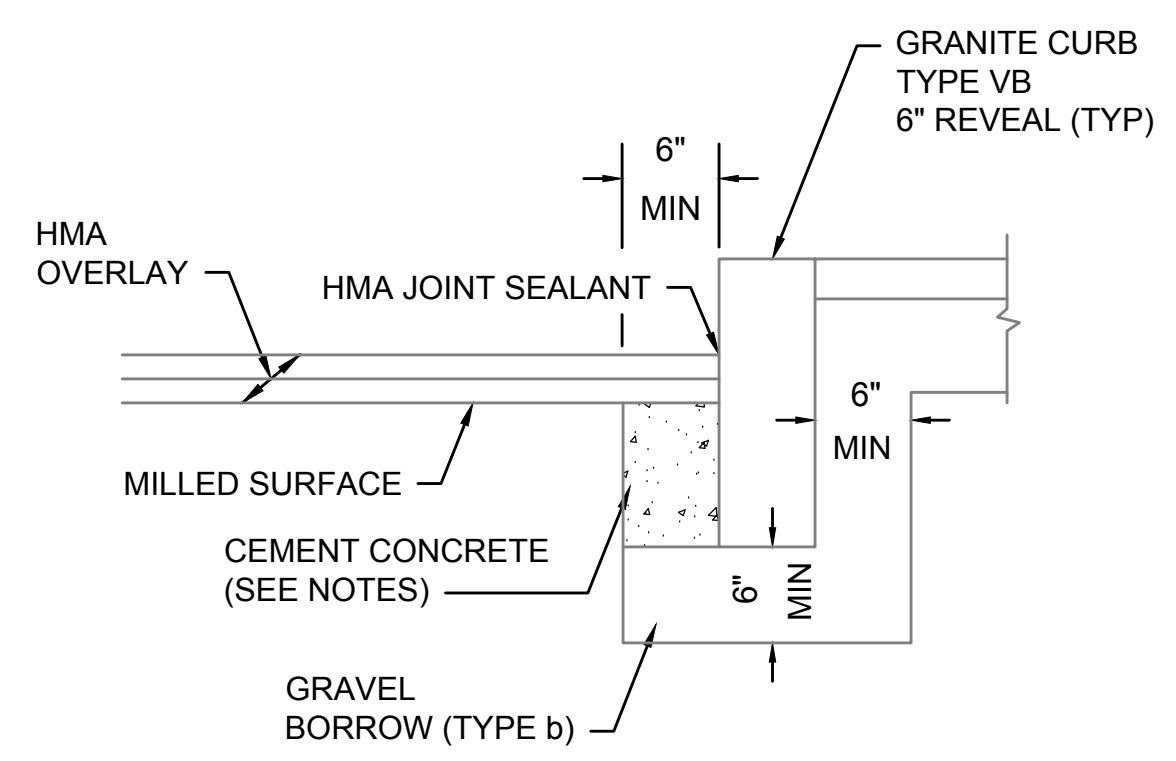
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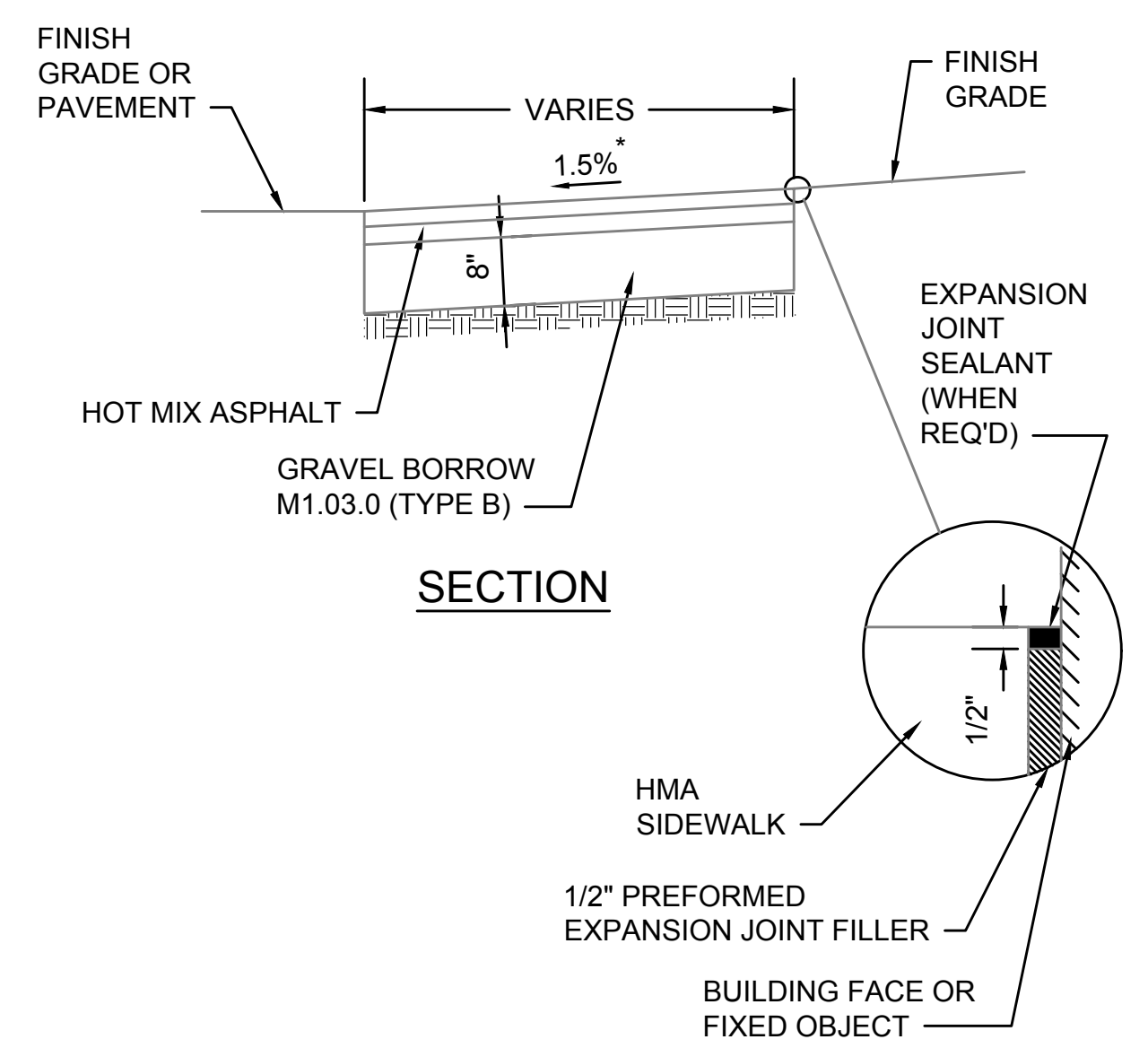
G



- NOTES:**
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
  2. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

**GRANITE CURB IN MILL & OVERLAY**

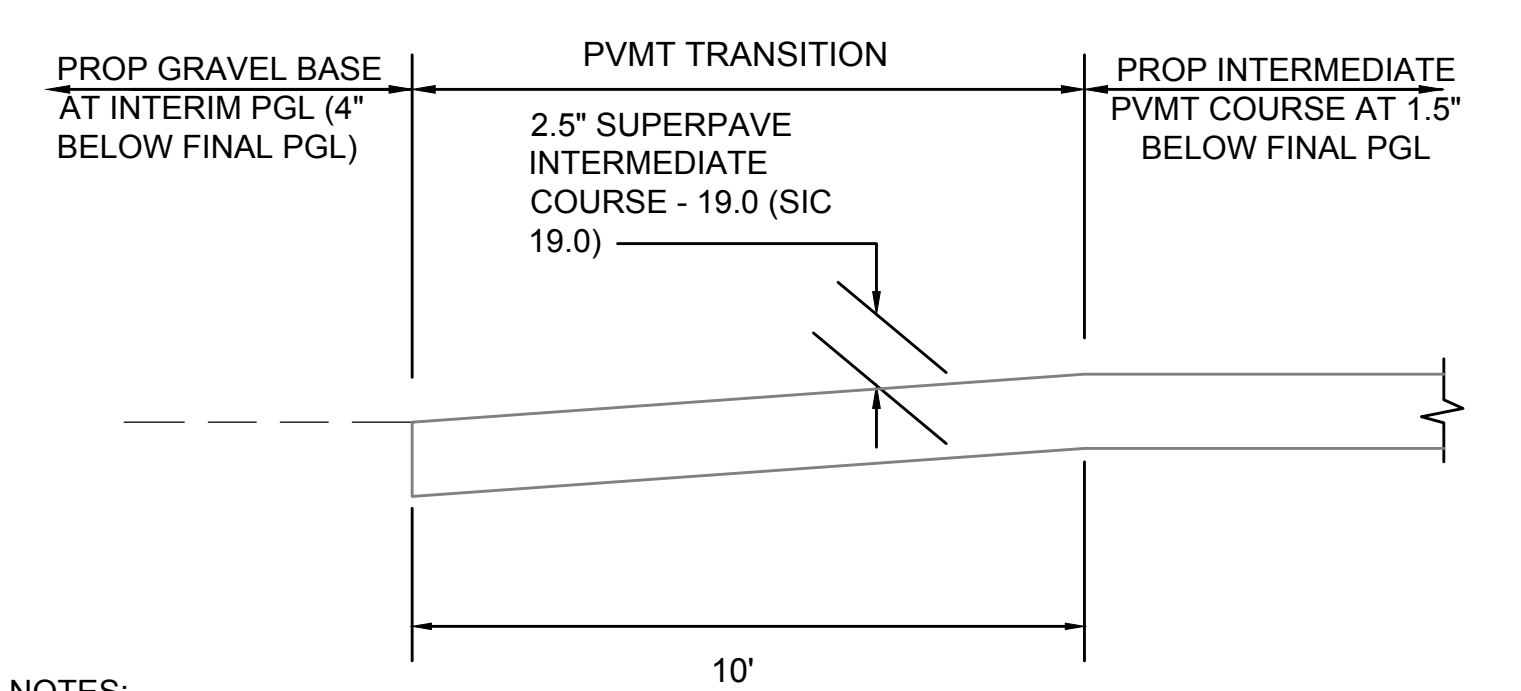
SCALE: N.T.S.



\* TOLERANCE FOR CONSTRUCTION ±0.5%

**HOT MIX ASPHALT SIDEWALK**

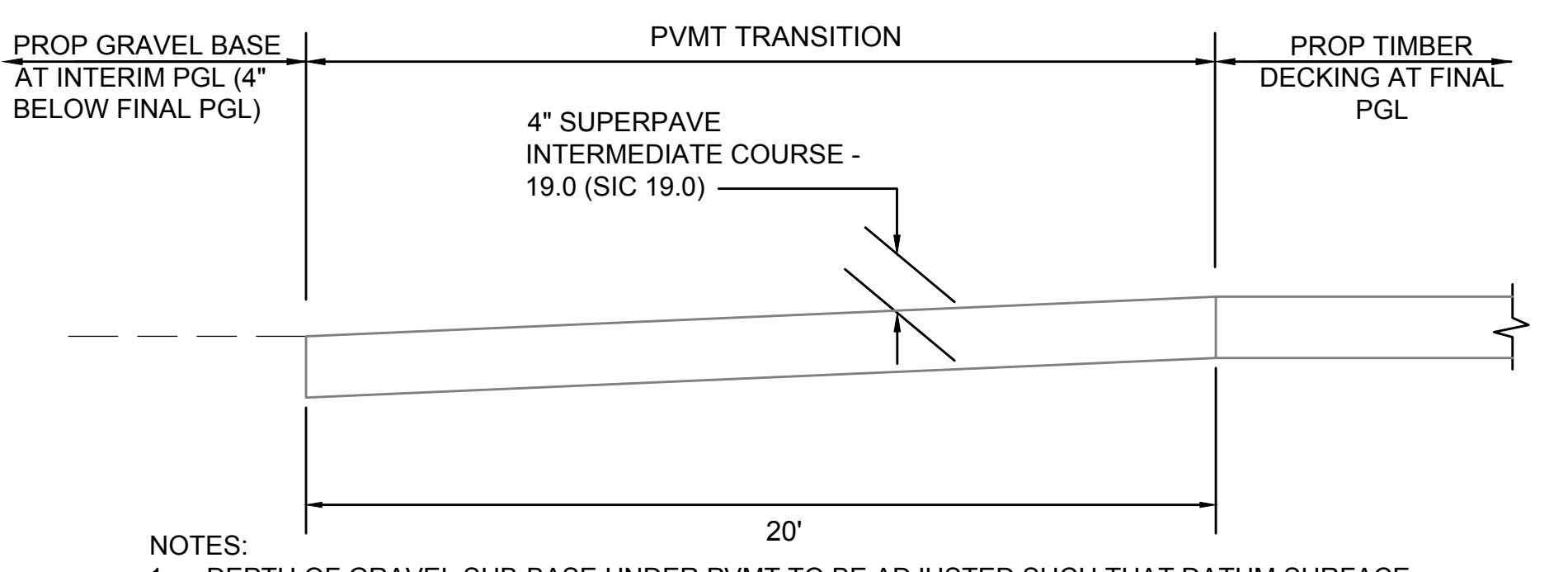
SCALE: N.T.S. DWG: WALK-01 DATE: MARCH 2013



- NOTES:**
1. DEPTH OF GRAVEL SUB-BASE UNDER PVMT TO BE ADJUSTED SUCH THAT DATUM SURFACE REMAINS AT 12" BELOW FINAL PGL THROUGH PVMT TRANSITION.

**LONGITUDINAL SECTION OF PVMT TRANSITION AT CATTLE CROSSING**

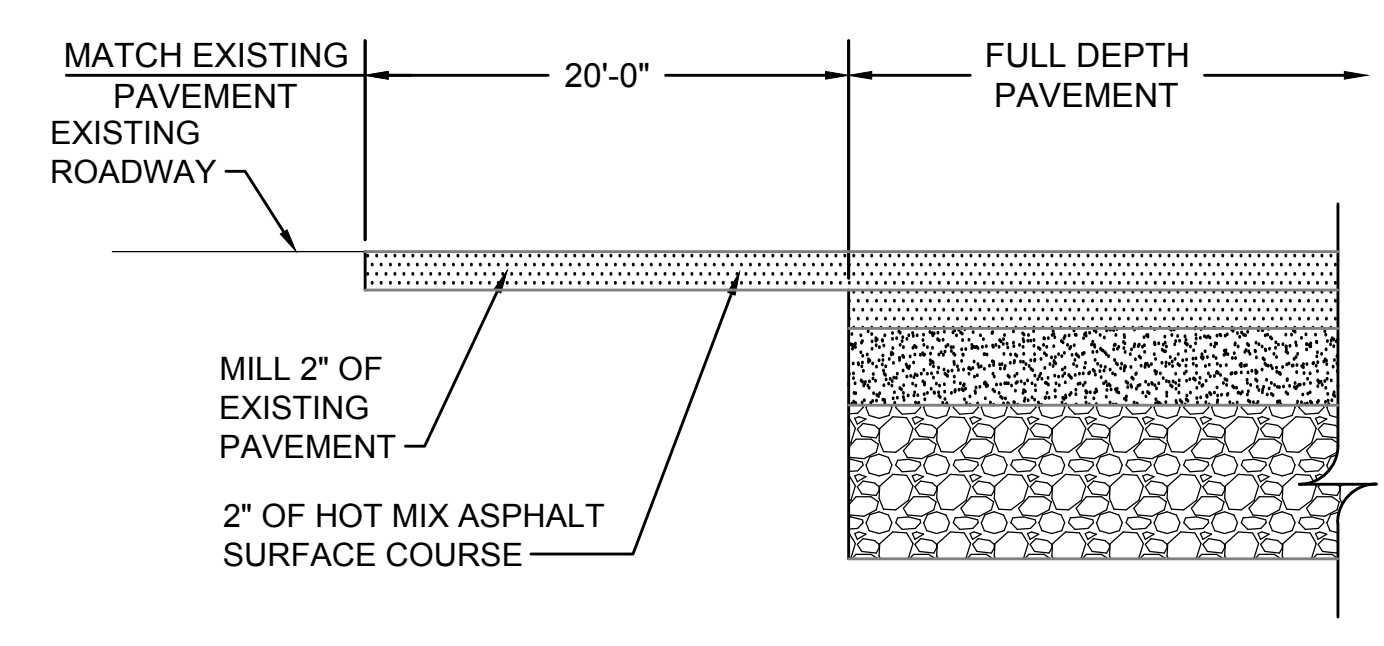
SCALE: N.T.S.



- NOTES:**
1. DEPTH OF GRAVEL SUB-BASE UNDER PVMT TO BE ADJUSTED SUCH THAT DATUM SURFACE REMAINS AT 12" BELOW FINAL PGL THROUGH PVMT TRANSITION.

**LONGITUDINAL SECTION OF PVMT TRANSITION AT BRIDGES**

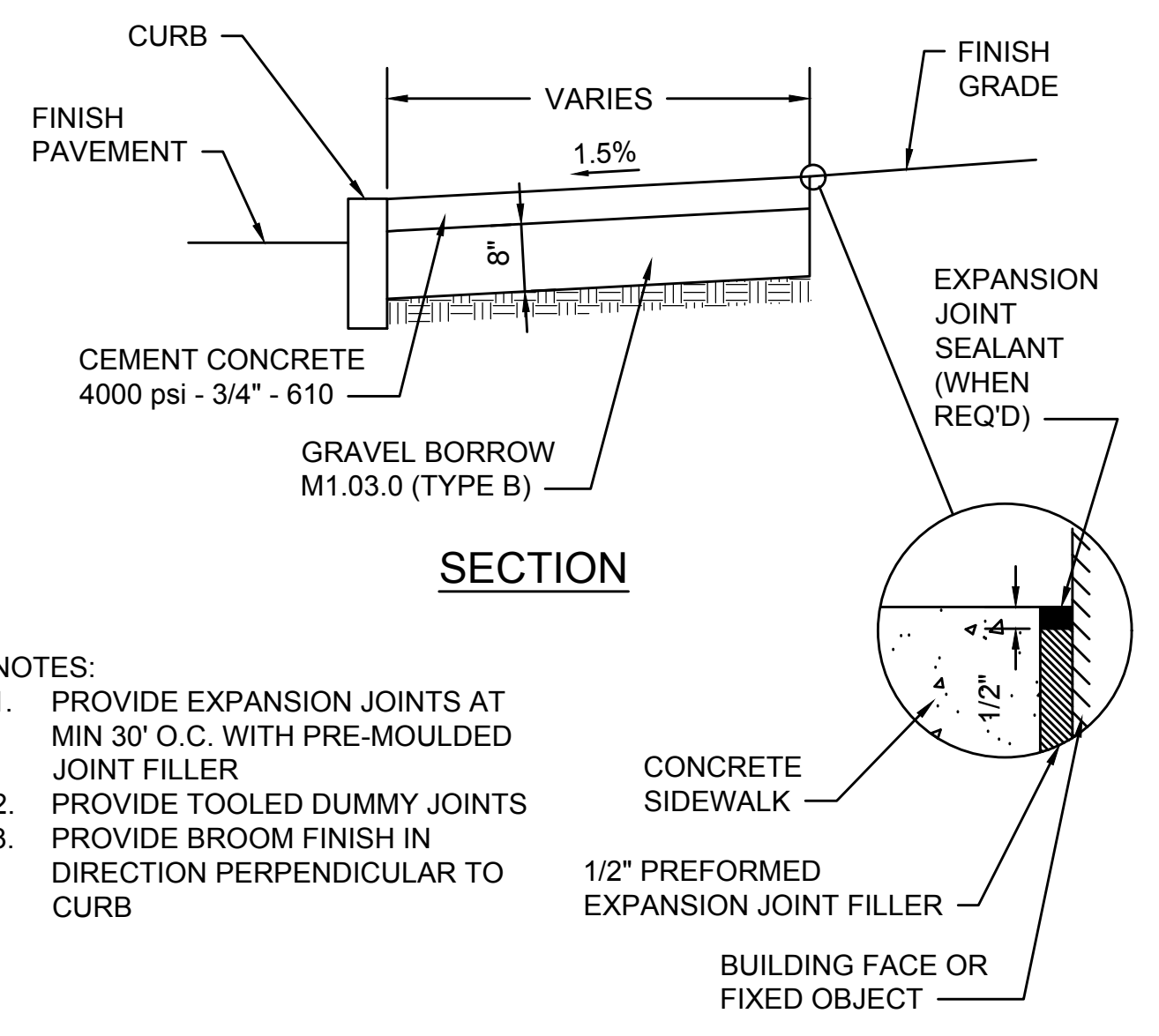
SCALE: N.T.S.



LONGITUDINAL SECTION

**FULL DEPTH PAVEMENT TRANSITION**

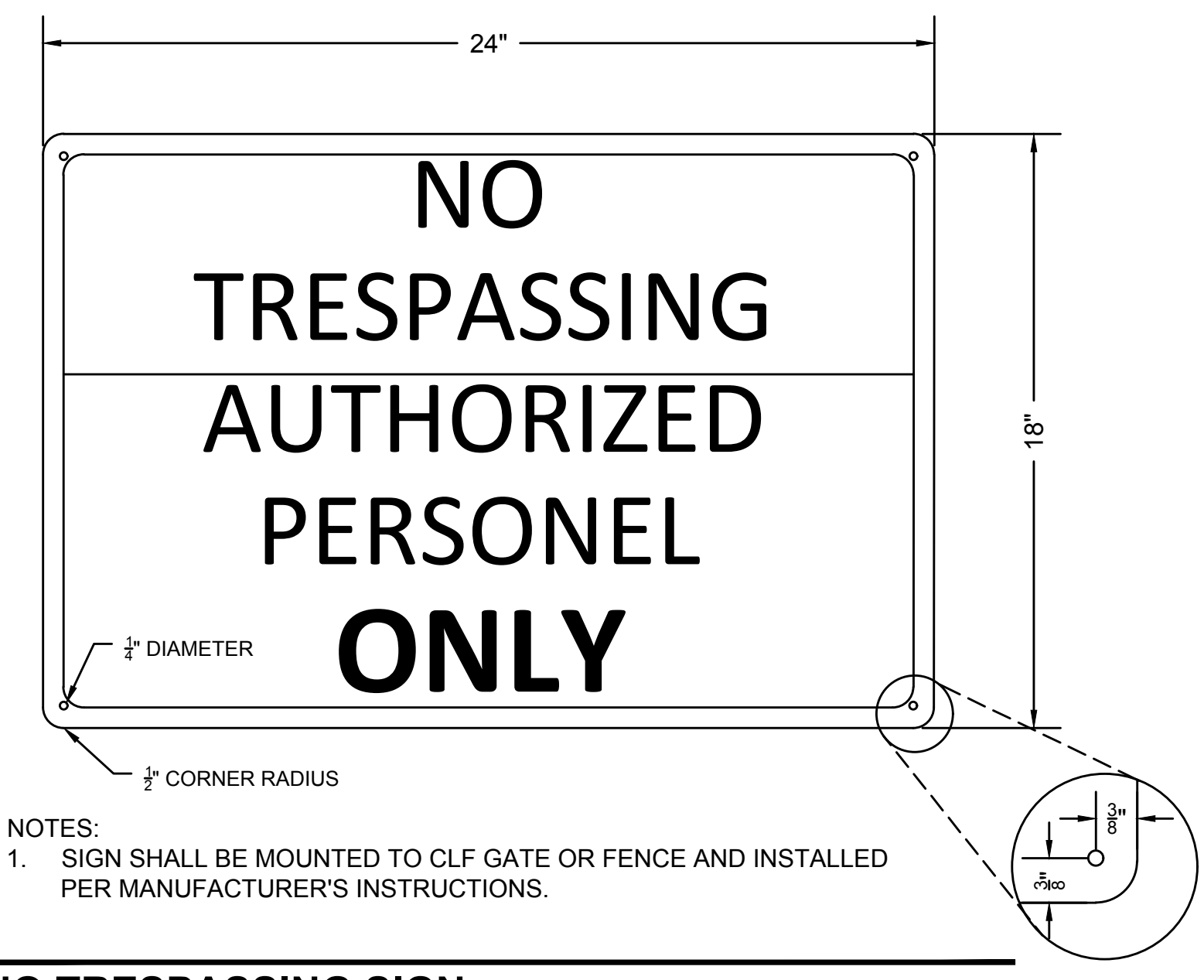
SCALE: N.T.S.



- NOTES:**
1. PROVIDE EXPANSION JOINTS AT MIN 30' O.C. WITH PRE-MOULDED JOINT FILLER
  2. PROVIDE TOOLED DUMMY JOINTS
  3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB

**CEMENT CONCRETE SIDEWALK**

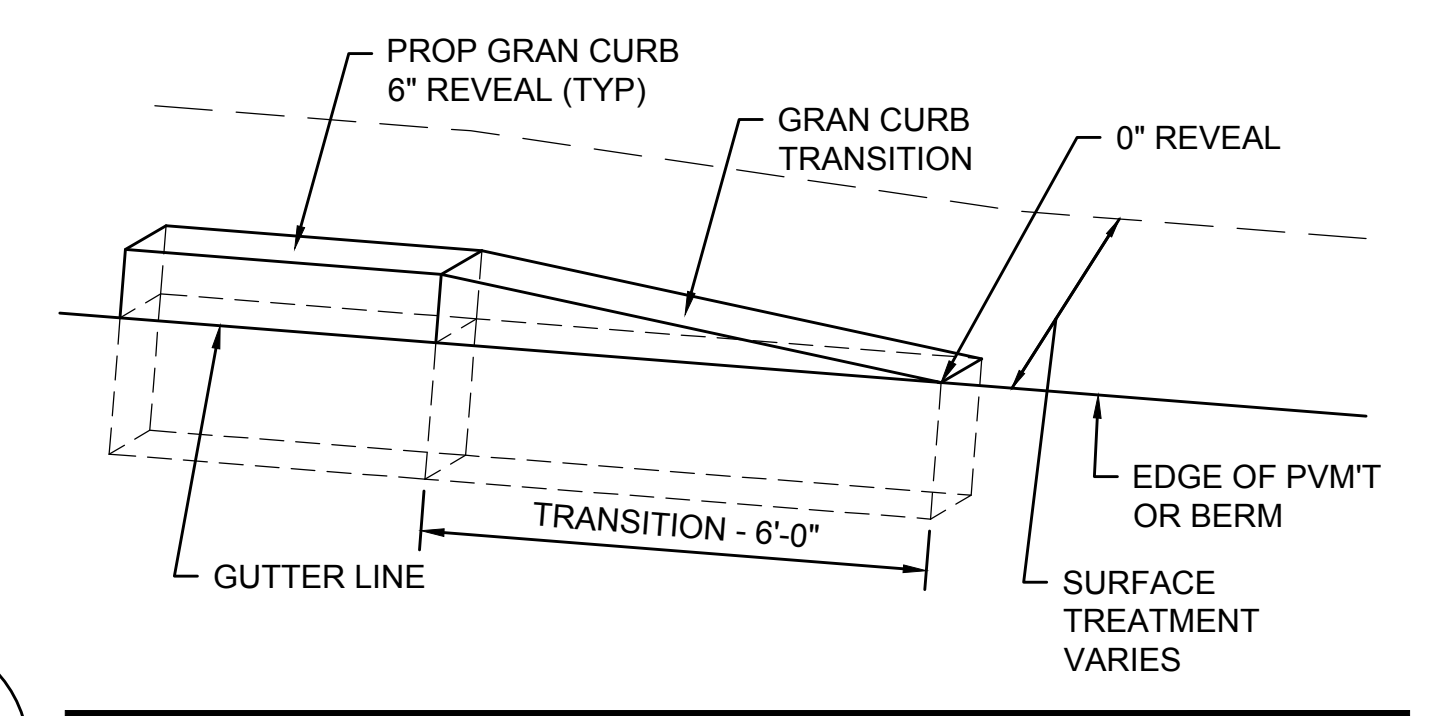
SCALE: N.T.S.



- NOTES:**
1. SIGN SHALL BE MOUNTED TO CLF GATE OR FENCE AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

**NO TRESPASSING SIGN**

SCALE: N.T.S.



**GRANITE CURB TRANSITION PIECE**

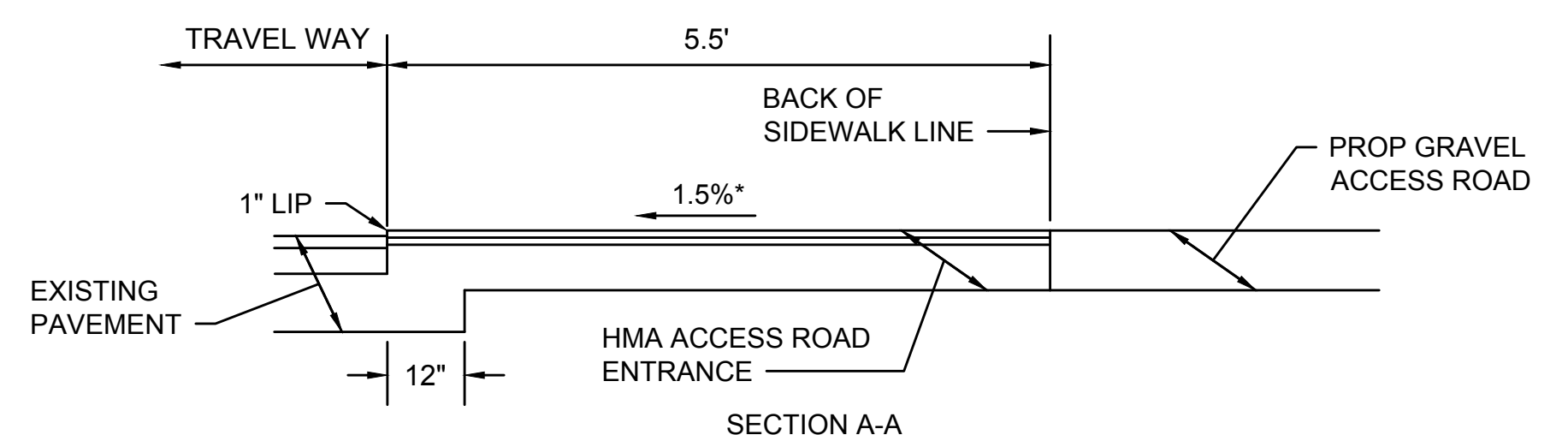
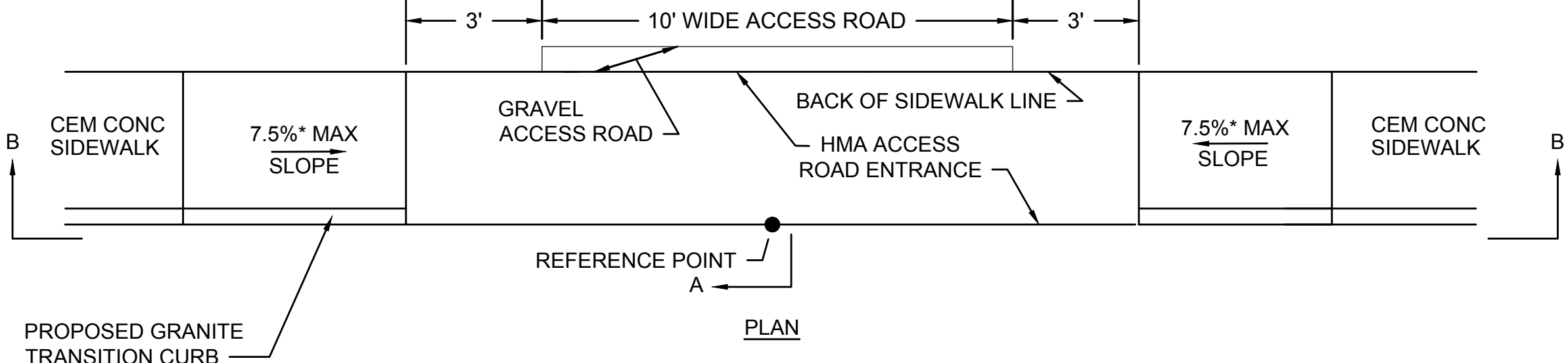
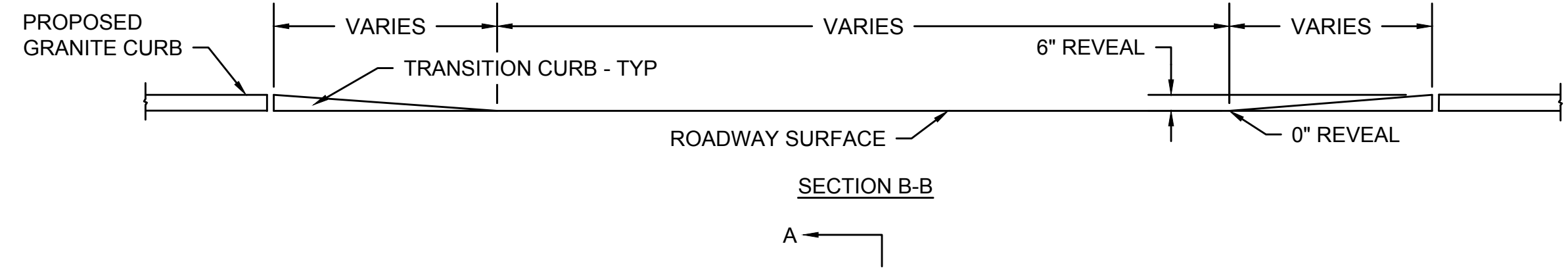
SCALE: N.T.S.

| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| <b>REVISION</b>                                   |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CONSTRUCTION DETAILS                              |                   |             |              |              |
| PLAN 128 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

| ACCESS ROAD CROSSING DATA                        |                      |                |                |           |       |            |       |                   |          |
|--|----------------------|----------------|----------------|-----------|-------|------------|-------|-------------------|----------|
| NO.  | LOCATION (REF POINT) | ROADWAY GUTTER | SIDEWALK WIDTH | LEFT SIDE |       | RIGHT SIDE |       | OPENING ELEVATION | COMMENTS |
|  |                      |                |                | REVEAL    | TRANS | REVEAL     | TRANS |                   |          |
| BOSTON POST ROAD (ROUTE 20) STATE HIGHWAY LAYOUT |                      |                |                |           |       |            |       |                   |          |
| 1  | 182+61.6, 9.6' LT    | 5.2%           | 5'-6"          | 6"        | 9'-0" | 6"         | 7'-8" | 134.31'           |          |

| WHEELCHAIR RAMP DATA |                      |                |                  |                |        |       |              |          |
|----------------------|----------------------|----------------|------------------|----------------|--------|-------|--------------|----------|
| NO.                  | LOCATION (REF POINT) | SIDEWALK WIDTH | RAMP OPENING (W) | ROADWAY GUTTER | REVEAL | TRANS | OPENING ELEV | COMMENTS |
|                      |                      |                |                  |                |        |       |              |          |
| 1                    | 183+13.3, 15.4' LT   | 5.5'           | 3.0'             | 0.46%          | 6"     | 7'-8" | 134.27       |          |
| 2                    | 183+44.2, 15.7' LT   | 4.5'           | 3.0'             | -1.14%         | 6"     | 9'-0" | 134.49       |          |

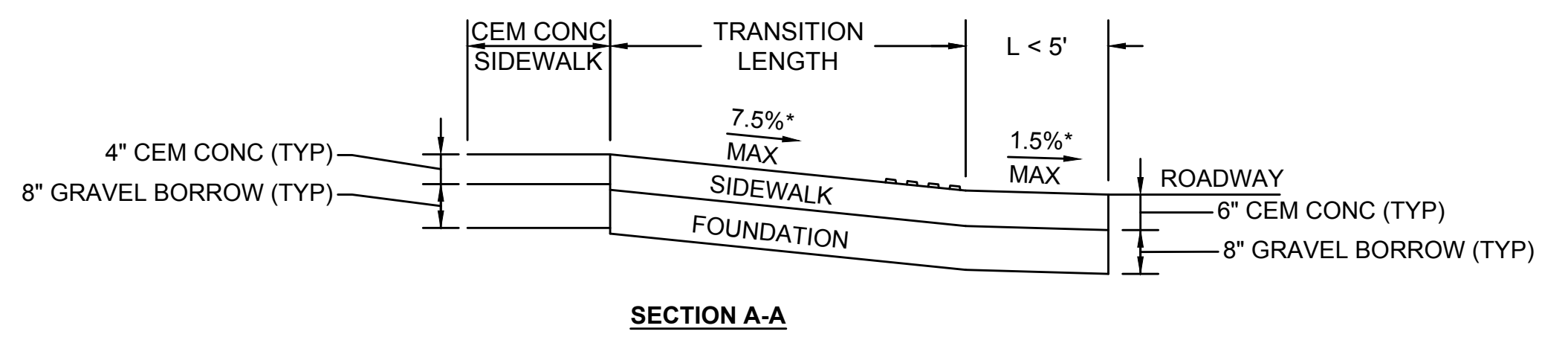
NOTE: NEGATIVE (-) ROADWAY GUTTER MAX DENOTES A LOW SIDE TRANSITION.



\*TOLERANCE FOR CONSTRUCTION ±0.5%

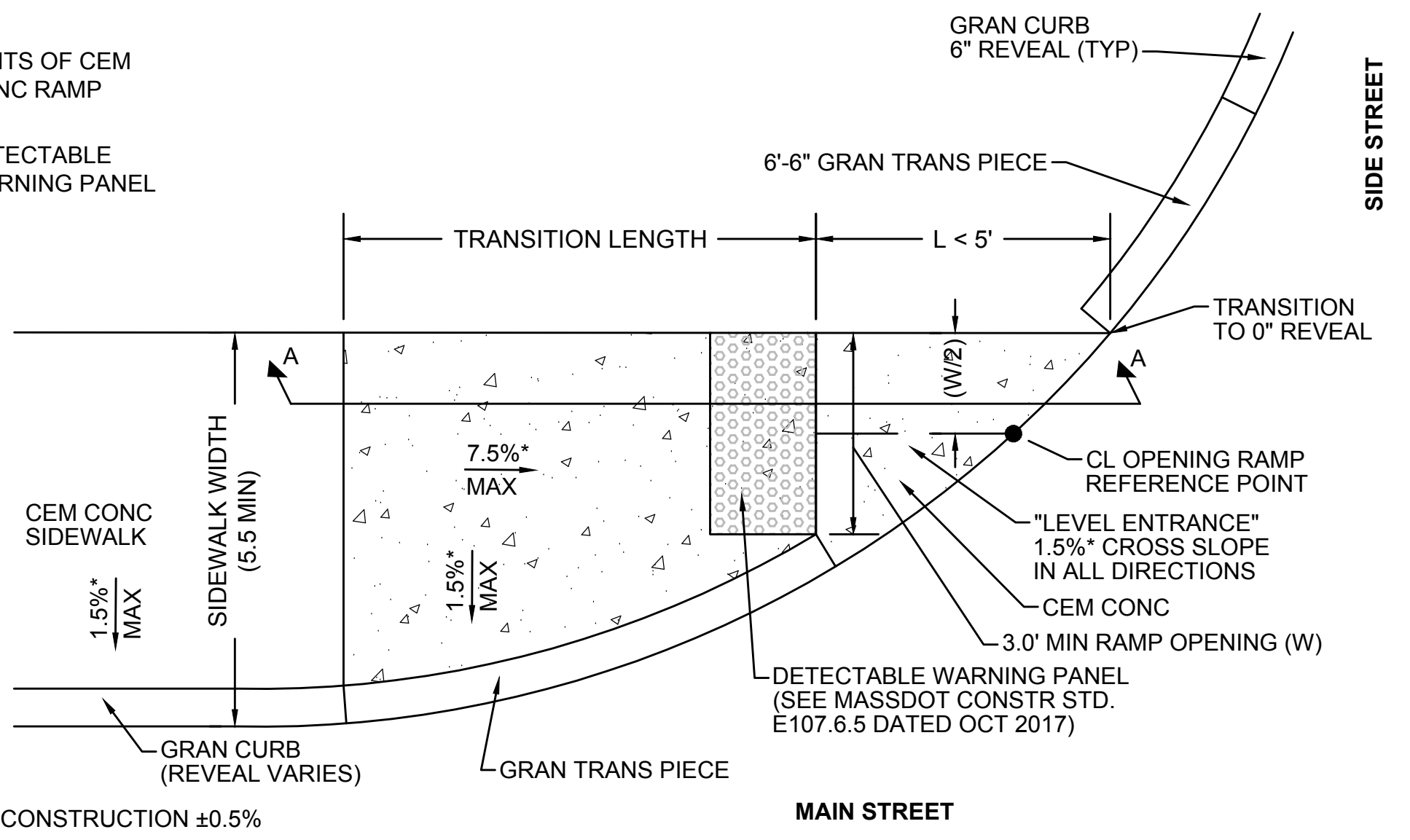
**TYPICAL ACCESS ROAD CROSSING WITH SIDEWALK AND WITHOUT CURB RETURNS**

SCALE: N.T.S.



**LEGEND**

- LIMITS OF CEM CONC RAMP
- DETECTABLE WARNING PANEL



\*TOLERANCE FOR CONSTRUCTION ±0.5%

**WHEELCHAIR RAMP - 'L' IS LESS THAN 5'**

SCALE: N.T.S.

|   |                 |           |           |            |
|---|-----------------|-----------|-----------|------------|
| NO.   | DESCRIPTION     | BY        | DATE      | APPR.      |
| REVISION  |                 |           |           |            |
| <b>EVERSOURCE</b>                                 |                 |           |           |            |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                 |           |           |            |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                 |           |           |            |
| CONSTRUCTION DETAILS                              |                 |           |           |            |
| PLAN 129 OF 316                                   |                 |           |           |            |
| SCALE: unless noted N.T.S.                        | DATE: JULY 2020 | DRAWN: MS | CHK'D: SK | APP'R: MES |
| DRAWING NO.                                       | REV.            |           |           |            |

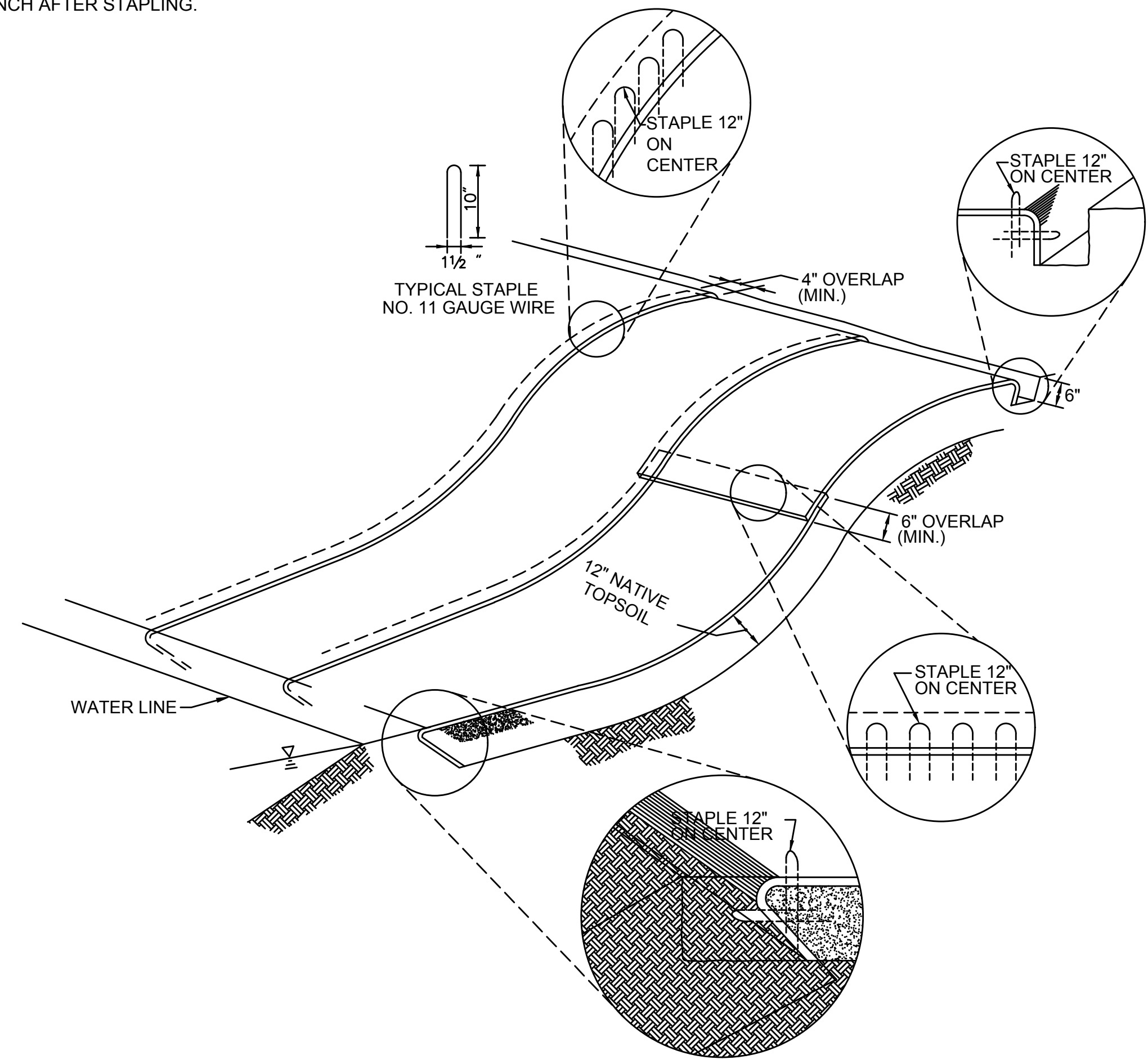


**NOTES FOR BIONET C700BN EROSION CONTROL BLANKET:**

- METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

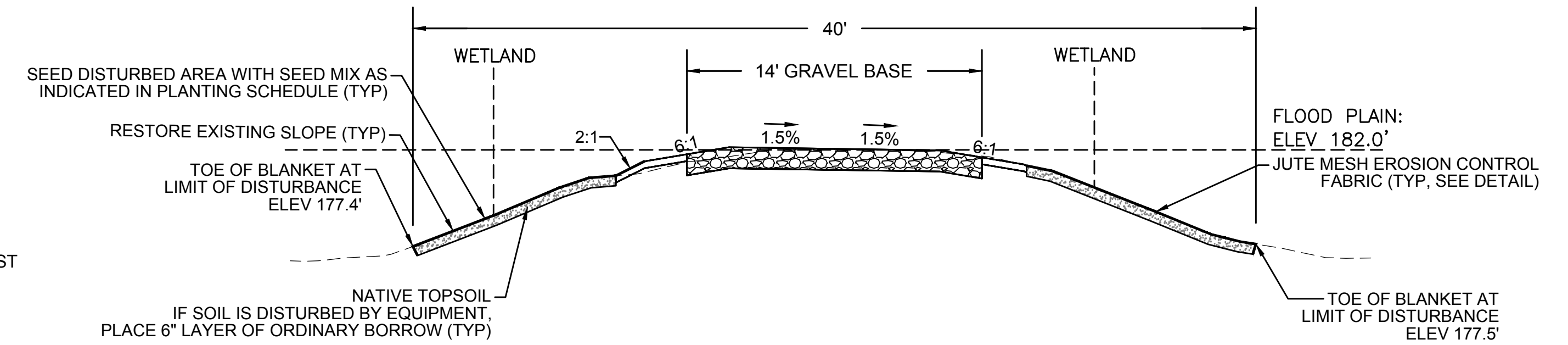
**NOTES FOR JUTE MESH EROSION CONTROL FABRIC:**

- EROSION CONTROL FABRIC SHALL BE WESTERN EXCELSIOR CC-4 ALL-NATURAL OR SIMILAR. FABRIC MUST BE COMPOSED OF 100% BIODEGRADABLE MATERIAL, WITH NO SYNTHETIC NETTING OR STITCHING. NETTING SHALL BE JUTE, MATRIX FILLING SHALL BE EXCELSIOR, STRAW, OR COCONUT, AND STITCHING SHALL BE BIODEGRADABLE. FABRIC SHOULD BE RATED FOR SLOPES OF AT LEAST 2:1 AND LONGEVITY OF AT LEAST 12 MONTHS.
- PREPARE SOIL BEFORE INSTALLING FABRIC, INCLUDING ANY NECESSARY APPLICATION OF LIME, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE FABRIC IN A 6" (15cm) DEEP X 6" (15 cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF FABRIC EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE FABRIC WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 cm) PORTION OF FABRIC BACK OVER SEED AND COMPACTED SOIL. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 cm) APART ACROSS THE WIDTH OF THE FABRIC.
- ROLL FABRIC FROM TOP OF SLOPE TO BOTTOM. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
- INSTALL TREE, SHRUB, AND/OR PLUG PLANTINGS AT THE LOCATIONS INDICATED IN THE PLANTING SCHEDULE ON SHEET 131 OR AS DIRECTED BY THE WETLAND SCIENTIST AFTER UNROLLING FABRIC. LOCATE PLANTINGS AT ROLL SEAMS OR CUT SLIT IN BLANKET PERPENDICULAR TO ACCESS ROAD TO ACCOMMODATE PLANTING. PLANTING HOLES SHOULD BE HAND-DUG.
- SECURE FABRIC AFTER PLANTINGS ARE INSTALLED. ALL FABRIC MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. DO NOT PLACE STAPLES OR STAKES WITHIN 2 FEET OF PLANTINGS. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE FABRICS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10 cm-15 cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 cm) APART AND 4" (10cm) ON CENTER TO SECURE FABRIC.
- FULL LENGTH EDGE OF FABRIC AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 cm) APART IN A 6" (15 cm) DEEP X 6" (15 cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT FABRICS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5 cm-12.5 cm) (DEPENDING ON FABRIC TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING FABRIC (FABRIC BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE FABRIC BEING OVERLAPPED.
- FULL LENGTH EDGE OF FABRIC AT BOTTOM OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 cm) APART. FABRIC SHALL HAVE A MINIMUM 6" RUNOUT LENGTH UNDER GEOWEB.
- A MINIMUM OF 4 NOTCHED WOOD STAKES SHALL BE INSTALLED TO SECURE EACH FABRIC, ONE AT EACH CORNER.
- THE TERMINAL END OF THE FABRIC MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 cm) APART IN A 6" (15 cm) DEEP X 6" (15 cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



**JUTE MESH EROSION CONTROL FABRIC & BIONET C700BN EROSION CONTROL BLANKET**

SCALE: N.T.S.

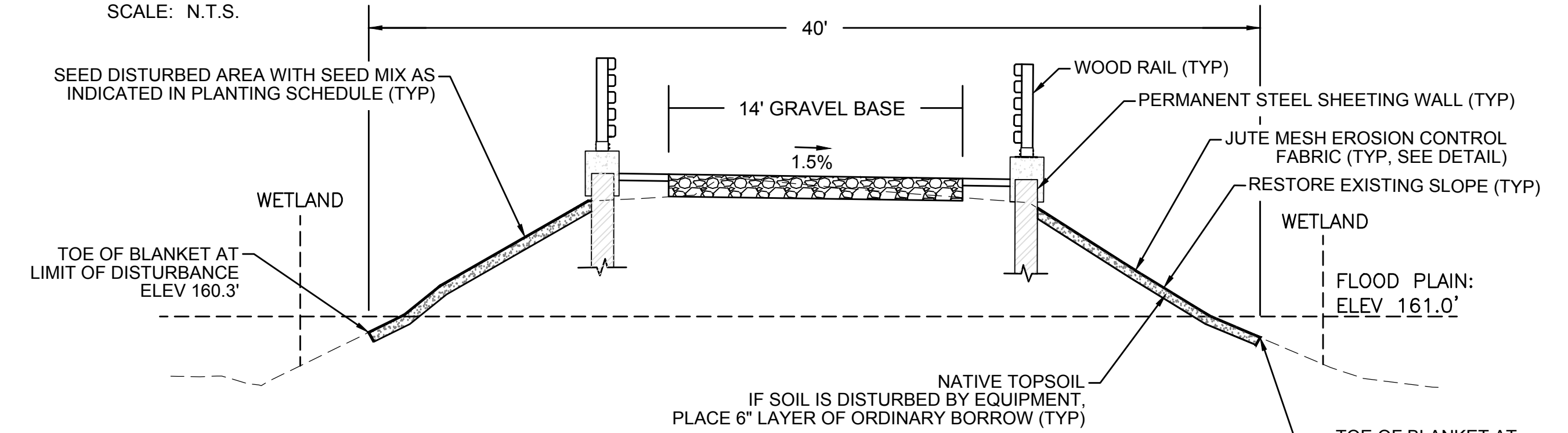


**NOTES:**

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 147+75 TO 148+50  
STA 149+00 TO 150+25
- THE CROSS-SECTION FOR STATION 148+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 130**

SCALE: N.T.S.

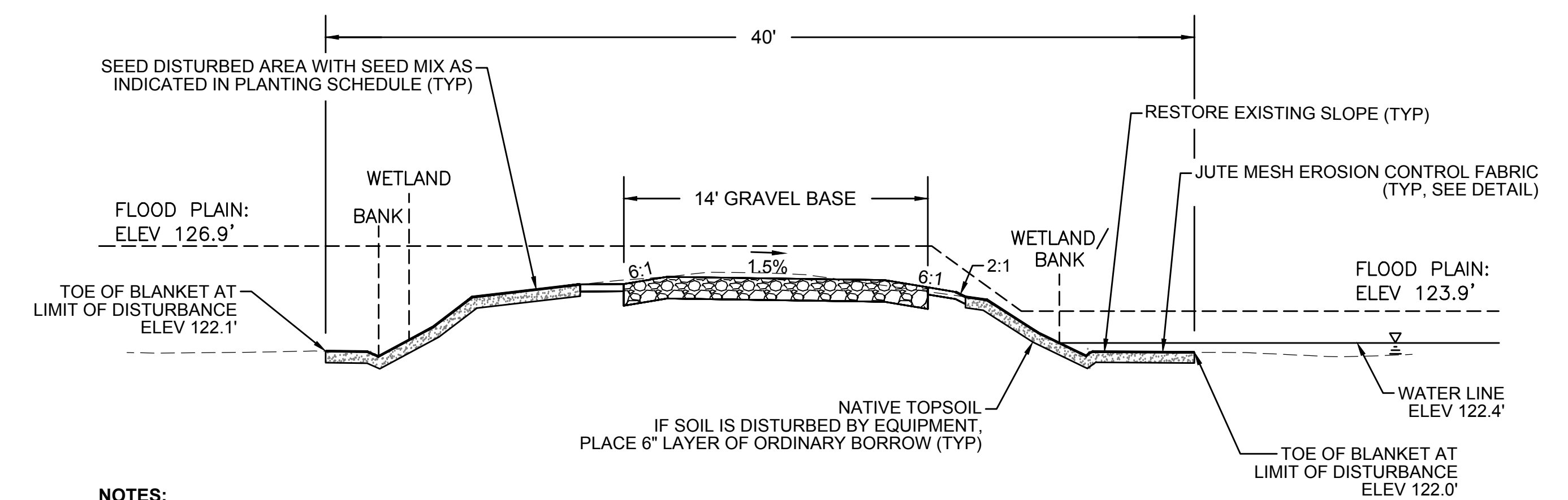


**NOTES:**

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 399+10 TO 400+20  
STA 400+75 TO 401+75
- THE CROSS-SECTION FOR STATION 401+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 128**

SCALE: N.T.S.



**NOTES:**

- THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 724+40 TO 725+00  
STA 725+70 TO 726+40
- THE CROSS-SECTION FOR STATION 726+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT RESTORATION CROSS-SECTION - BRIDGE 127**

SCALE: N.T.S.

| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| <b>REVISION</b>                                   |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CONSTRUCTION DETAILS                              |                   |             |              |              |
| PLAN 130 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

PLANTING SCHEDULE A: CRANE MAT RESTORATION AREAS  
STATIONS 147+75 TO 148+50, 149+00 TO 150+25, 399+00 TO 400+00, 400+50 TO 401+75, 724+00 TO 725+00, 725+75 TO 726+50, 726+50 TO 729+00

| SEED MIX  |                |       |
|---|----------------|-------|
| SPECIES   | WETLAND STATUS | %     |
| VIRGINIA WILD RYE ( <i>ELYMUS VIRGINICUS</i> )            | FACW           | 25.00 |
| CANADA WILD RYE ( <i>ELYMUS CANADENSIS</i> )              | FACU           | 20.00 |
| LITTLE BLUESTEM ( <i>SCHIZACHYRIUM SCOPARIUM</i> )        | FACU           | 20.00 |
| RED FESCUE ( <i>FESTUCA RUBRA</i> )                       | FACU           | 12.00 |
| DEER-TONGUE GRASS ( <i>DICHTANTHELIUM CLANDESTINUM</i> )  | FACW           | 8.00  |
| UPLAND BENTGRASS ( <i>AGROSTIS PERENNANS</i> )            | FACU           | 6.00  |
| FOX SEDGE ( <i>CAREX VULPINOIDEA</i> )                    | OBL            | 2.00  |
| PATH RUSH ( <i>JUNCUS TENUIS</i> )                        | FAC            | 2.00  |
| SOFT RUSH ( <i>JUNCUS EFFUSUS</i> )                       | OBL            | 0.10  |
| BEARD-TONGUE ( <i>PENSTEMON DIGITALIS</i> )               | FAC            | 2.00  |
| NEW ENGLAND ASTER ( <i>SYMPHYOTRICHUM NOVAE-ANGLIAE</i> ) | FACW           | 1.00  |
| WOODLAND GOLDENROD ( <i>SOLIDAGO CAESIA</i> )             | FACU           | 0.50  |
| BLUE WOOD ASTER ( <i>SYMPHYOTRICHUM CORDIFOLIUM</i> )     | UPL            | 0.50  |
| JOE-PYE WEED ( <i>EUTROCHIMUM MACULATUM</i> )             | OBL            | 0.30  |
| WHITE AVENS ( <i>GEUM CANADENSE</i> )                     | FAC            | 0.30  |
| RIGID GOLDENROD ( <i>OLIGONEURON RIGIDUM</i> )            | UPL            | 0.30  |

| SPECIES  | WETLAND STATUS | PLANT TYPE | PLANT SIZE | SUPPLEMENTAL PLANTINGS |                  |                  |                  |                  |                  |                  |  |
|--|----------------|------------|------------|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|  |                |            |            | QUANTITY               |                  |                  |                  |                  |                  |                  |  |
|  |                |            |            | 147+75 TO 148+50       | 149+00 TO 150+25 | 397+70 TO 400+10 | 400+60 TO 401+60 | 723+70 TO 725+05 | 725+70 TO 726+30 | 726+30 TO 729+00 |  |
| GRAY BIRCH ( <i>BETULA POPULIFOLIA</i> )                     | FAC            | TREE       | 4' - 6'    | 10                     | 10               | 10               | 10               | 7                | 2                | 10               |  |
| RED MAPLE ( <i>ACER RUBRUM</i> )                             | FAC            | TREE       | 4' - 6'    | 10                     | 10               | 12               | 10               | 10               | 4                | 10               |  |
| SERVICEBERRY ( <i>AMELANCHIER CANADENSIS</i> )               | FAC            | TREE       | 3' - 4'    | 10                     | 15               | 10               | 10               | 7                | 4                | 10               |  |
| BLACK OAK ( <i>QUERCUS VELUTINA</i> )                        | UPL            | TREE       | 4' - 6'    | 10                     | 15               | 13               | 10               | 10               | 2                | 2                |  |
| BEBB'S WILLOW ( <i>SALIX BEBBIANA</i> )                      | FACW           | TALL SHRUB | 3' - 4'    | 0                      | 0                | 0                | 10               | 0                | 0                | 0                |  |
| COMMON WINTERBERRY HOLLY ( <i>ILEX VERTICILLATA</i> )        | FACW           | TALL SHRUB | 3' - 4'    | 10                     | 10               | 10               | 10               | 15               | 10               | 20               |  |
| HIGHBUSH BLUEBERRY ( <i>VACCINIUM CORYMBOSUM</i> )           | FACW           | TALL SHRUB | 3' - 4'    | 10                     | 10               | 10               | 10               | 15               | 10               | 20               |  |
| SILKY DOGWOOD ( <i>SWIDA AMOMUM</i> )                        | FACW           | TALL SHRUB | 3' - 4'    | 10                     | 10               | 10               | 10               | 15               | 10               | 20               |  |
| NORTHERN WATER-PLAINTAIN ( <i>ALISMA PLANTAGO-AQUATICA</i> ) | OBL            | AQUATIC    | 2" PLUG    | 2                      | 2                | 2                | 2                | 2                | 2                | 0                |  |
| GREEN ARROW-ARUM ( <i>PELTANDRA VIRGINICA</i> )              | OBL            | AQUATIC    | 2" PLUG    | 2                      | 2                | 2                | 2                | 2                | 2                | 0                |  |
| PICKERELWEED ( <i>PONTEDERIA CORDATA</i> )                   | OBL            | AQUATIC    | 2" PLUG    | 2                      | 2                | 2                | 2                | 2                | 2                | 0                |  |
| COMMON ARROWHEAD ( <i>SAGITTARIA LATIFOLIA</i> )             | OBL            | AQUATIC    | 2" PLUG    | 2                      | 2                | 2                | 2                | 2                | 2                | 0                |  |

NOTES:

- ALL PLANTS SPECIFIED ARE PENDING AVAILABILITY. SUBSTITUTIONS MAY BE MADE PENDING APPROVAL OF THE ENVIRONMENTAL MONITOR.
- ONLY SPECIES ARE ALLOWED (NO HORTICULTURAL CULTIVARS OR VARIETIES).
- SEED MIX AND PLANT STOCK SHALL BE OBTAINED FROM A NURSERY THAT SPECIALIZES IN NATIVE ECOLOGICAL PLANTINGS. PLANT STOCK SHALL BE SUPPLIED IN A PLANTING-READY CONDITION. ALL MATERIALS MUST BE INSPECTED AND APPROVED BY THE ENVIRONMENTAL MONITOR PRIOR TO BEING PLANTED. IF NOT PLANTED WITHIN 12 HOURS FROM WHEN THEY WERE COLLECTED, PLANTS SHALL BE STORED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE NURSERY.
- PLANT STOCK WILL BE INSTALLED IN HAND-DUG HOLES IN LOCATIONS TO BE DETERMINED BY ENVIRONMENTAL MONITOR.
- MULCH SHALL BE SPREAD AROUND EACH PLANT IN ACCORDANCE WITH THE DETAIL.
- NO FERTILIZERS SHALL BE APPLIED.
- THE CONTRACTOR IS RESPONSIBLE FOR A 90-DAY MAINTENANCE PERIOD THAT BEGINS UPON WRITTEN ACCEPTANCE OF THE SEEDING AND PLANTING BY THE ENVIRONMENTAL MONITOR. MAINTENANCE SHALL INCLUDE:
  - PROTECT PLANTING AREAS AND PLANTS AGAINST TRESPASSING AND DAMAGE OF ALL KINDS FOR THE DURATION OF THE MAINTENANCE PERIOD. IF ANY PLANTS BECOME DAMAGED OR INJURED, THEY SHALL BE TREATED OR REPLACED AS REQUIRED.
  - ALL PLANTINGS SHALL BE THOROUGHLY SATURATED AT LEAST TWICE PER WEEK DURING MAINTENANCE PERIOD.

PLANTING SCHEDULE B: PRIORITY HABITAT

STATIONS 337+25 TO 340+00, 340+00 TO 348+00, 348+00 TO 352+00, 352+00 TO 356+00, 356+00 TO 361+00, 361+00 TO 361+55, 361+55 TO 361+75

| SEED MIX  |
|---|
| USE SEED MIX SPECIFIED FOR PLANTING SCHEDULE A. |

NOTES:

- USE COOL SEASON PLANTING PROCEDURES.
- ADD 0.75 LBS/1,000 SF OF COVER CROP. USE EITHER GRAIN OATS (1 JAN TO 31 JULY) OR GRAIN RYE (ANNUAL RYE) (1 AUG TO 31 DEC).

| STATION          | SUPPLEMENTAL PLANTINGS                               |   |   |  |
|------------------|--|---|---|--|
|                  | SPECIES  | WETLAND STATUS                                    | PLANT TYPE                                | PLANT SIZE   |
|                  | BLACK HUCKLEBERRY ( <i>GAYLUSSACIA BACCATA</i> )     | FACU  | LOW-GROWING SHRUB                         |  |
|                  | PENNSYLVANIA SEDGE ( <i>CAREX PENNSYLVANICA</i> )    | UPL   | HERBACEOUS                                |  |
|                  | SWEET FERN ( <i>COMPTONIA PEREGRINA</i> )            | UPL   | LOW-GROWING SHRUB                         |  |
|                  | LOWBUSH BLUEBERRY ( <i>VACCINIUM ANGUSTIFOLIUM</i> ) | FACU  | LOW-GROWING SHRUB                         |  |
| STATION          | BLACK HUCKLEBERRY ( <i>GAYLUSSACIA BACCATA</i> )     | PENNSYLVANIA SEDGE ( <i>CAREX PENNSYLVANICA</i> ) | SWEET FERN ( <i>COMPTONIA PEREGRINA</i> ) | LOWBUSH BLUEBERRY ( <i>VACCINIUM ANGUSTIFOLIUM</i> ) |
| 337+25 TO 340+00 | Y  | Y   | N   | N  |
| 340+00 TO 348+00 | N  | Y   | N   | N  |
| 348+00 TO 352+00 | Y  | N   | N   | N  |
| 352+00 TO 356+00 | N  | Y   | N   | N  |
| 356+00 TO 361+00 | Y  | Y   | N   | N  |
| 361+00 TO 361+55 | N  | Y   | N   | N  |
| 361+55 TO 363+00 | N  | N   | Y   | Y  |
| 363+00 TO 370+00 | N  | Y   | N   | Y  |
| 370+00 TO 372+00 | Y  | N   | N   | N  |
| 372+00 TO 375+00 | N  | Y   | N   | N  |
| 375+00 TO 376+50 | Y  | N   | N   | N  |
| 380+00 TO 384+00 | Y  | Y   | N   | N  |
| 392+00 TO 396+00 | N  | N   | Y   | Y  |
| 396+00 TO 400+20 | Y  | Y   | N   | N  |

NOTES:

- ALL PLANTS SPECIFIED ARE PENDING AVAILABILITY. SUBSTITUTIONS MAY BE MADE PENDING APPROVAL OF THE ENVIRONMENTAL MONITOR.
- ONLY SPECIES ARE ALLOWED (NO HORTICULTURAL CULTIVARS OR VARIETIES).
- PLANTING SOURCES SHALL INCLUDE NURSERY GROWN, SALVAGED FROM LOCATIONS WITHIN THE CONSTRUCTION CORRIDOR, OR COLLECTED FROM APPROVED AREAS UNDER THE DIRECT SUPERVISION OF AN ENVIRONMENTAL MONITOR.
- IF PROVIDED BY A NURSERY, SEED MIX AND PLANT STOCK SHALL BE OBTAINED FROM A NURSERY THAT SPECIALIZES IN NATIVE ECOLOGICAL PLANTINGS. PLANT STOCK SHALL BE SUPPLIED IN A PLANTING-READY CONDITION. PLANTS SHALL BE IN CONTAINER AND 12" TO 18" IN SIZE.
- ALL MATERIALS MUST BE INSPECTED AND APPROVED BY THE ENVIRONMENTAL MONITOR PRIOR TO BEING PLANTED. IF NOT PLANTED WITHIN 12 HOURS FROM WHEN THEY WERE COLLECTED, PLANTS SHALL BE STORED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE NURSERY.
- PLANT STOCK WILL BE INSTALLED IN HAND-DUG HOLES IN LOCATIONS TO BE DETERMINED BY ENVIRONMENTAL MONITOR.
- MULCH SHALL BE SPREAD AROUND EACH PLANT IN ACCORDANCE WITH THE DETAIL.
- NO FERTILIZERS SHALL BE APPLIED.
- THE CONTRACTOR IS RESPONSIBLE FOR A 90-DAY MAINTENANCE PERIOD THAT BEGINS UPON WRITTEN ACCEPTANCE OF THE SEEDING AND PLANTING BY THE ENVIRONMENTAL MONITOR. MAINTENANCE SHALL INCLUDE:
  - PROTECT PLANTING AREAS AND PLANTS AGAINST TRESPASSING AND DAMAGE OF ALL KINDS FOR THE DURATION OF THE MAINTENANCE PERIOD. IF ANY PLANTS BECOME DAMAGED OR INJURED, THEY SHALL BE TREATED OR REPLACED AS REQUIRED.
  - ALL PLANTINGS SHALL BE THOROUGHLY SATURATED AT LEAST TWICE PER WEEK DURING MAINTENANCE PERIOD.

PLANTING SCHEDULE C: GENERAL CONSTRUCTION CORRIDOR

| SEED MIX  |
|---|
| USE SEED MIX SPECIFIED FOR PLANTING SCHEDULE A AND ADD SHRUB SEED MIX PROVIDED BELOW. |

NOTES:

- ALL PLANTS SPECIFIED ARE PENDING AVAILABILITY. SUBSTITUTIONS MAY BE MADE PENDING APPROVAL OF THE ENVIRONMENTAL MONITOR.
- ONLY SPECIES ARE ALLOWED (NO HORTICULTURAL CULTIVARS OR VARIETIES).
- SEED MIX SHALL BE OBTAINED FROM A NURSERY THAT SPECIALIZES IN NATIVE ECOLOGICAL PLANTINGS.
- ALL MATERIALS MUST BE INSPECTED AND APPROVED BY THE ENVIRONMENTAL MONITOR PRIOR TO BEING PLANTED. IF NOT PLANTED WITHIN 12 HOURS FROM WHEN THEY WERE COLLECTED, PLANTS SHALL BE STORED IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE NURSERY.
- NO FERTILIZERS SHALL BE APPLIED.
- ADD 30 LBS/AC OF COVER CROP. USE EITHER GRAIN OATS (1 JAN TO 31 JULY) OR GRAIN RYE (ANNUAL RYE) (1 AUG TO 31 DEC).
- APPLY MIX AT 20 LBS PLS/AC ON AREAS OF LESS THAN 3:1 SLOPE AND 25 LBS PLS ON AREAS OF GREATER THAN 3:1 SLOPE.
- THE CONTRACTOR IS RESPONSIBLE FOR A 90-DAY MAINTENANCE PERIOD THAT BEGINS UPON WRITTEN ACCEPTANCE OF THE SEEDING AND PLANTING BY THE ENVIRONMENTAL MONITOR. MAINTENANCE SHALL INCLUDE:
  - PROTECT PLANTING AREAS AND PLANTS AGAINST TRESPASSING AND DAMAGE OF ALL KINDS FOR THE DURATION OF THE MAINTENANCE PERIOD. IF ANY PLANTS BECOME DAMAGED OR INJURED, THEY SHALL BE TREATED OR REPLACED AS REQUIRED.
  - ALL PLANTINGS SHALL BE THOROUGHLY SATURATED AT LEAST TWICE PER WEEK DURING MAINTENANCE PERIOD.

| SHRUB SEED MIX  |                |        |
|---|----------------|--------|
| SPECIES   | WETLAND STATUS | LBS/AC |
| ALTERNATE-LEAVED DOGWOOD ( <i>CORNUS ALTERNIFOLIA</i> ) | FACU           | 2.00   |
| HAZELNUT ( <i>CORYLUS AMERICANA</i> )                   | FACU           | 2.00   |
| ARROWWOOD ( <i>VIBURNUM DENTATUM</i> )                  | FAC            | 2.00   |
| NANNYBERRY ( <i>VIBURNUM LENTAGO</i> )                  | FAC            | 2.00   |

|   |                   |             |               |                 |
|---|-------------------|-------------|---------------|-----------------|
| NO.   | DESCRIPTION       | BY          | DATE          | APPR.           |
| <b>REVISION</b>                                   |                   |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CONSTRUCTION DETAILS                              |                   |             |               |                 |
| PLAN 1310F316                                     |                   |             |               |                 |
| SCALE: unless noted<br>NTS                        | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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A

B

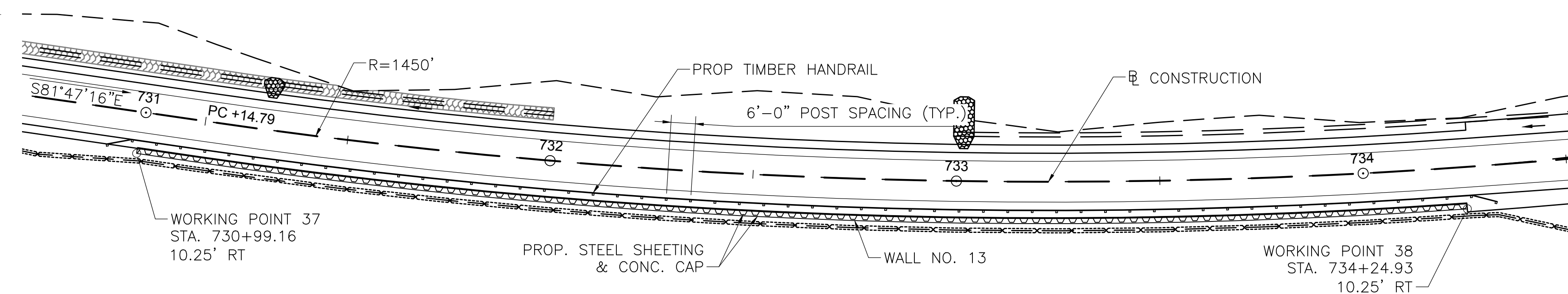
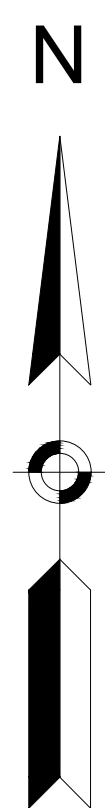
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D

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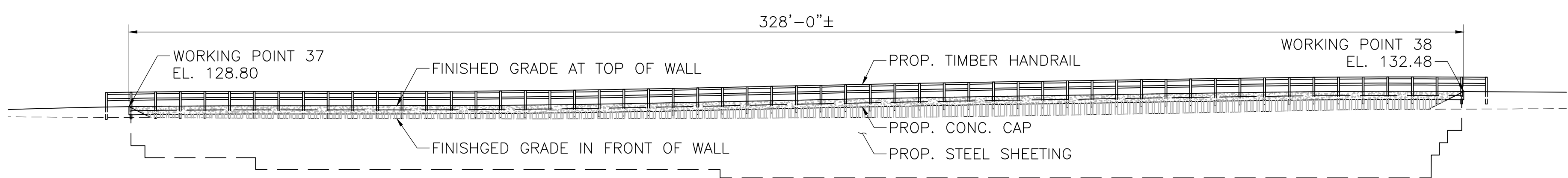
F

G



**WALL 13 SHEETING PLAN**

SCALE: 1"=20'-0"



**WALL 13 ELEVATION**

SCALE: 1/4"=1'-0"

**NOTES:**

1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE TYPICAL SHEETING SECTION AND SHEETING EMBEDMENT TABLE SHEET 133 OF 316.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A MINIMUM SECTION MODULUS ( $S_x$ ) OF 7.08 IN<sup>3</sup> PER FOOT.
3. CONC. CAP SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE. REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED STEEL IN ACCORDANCE WITH AASHTO M31. CONSTRUCTION JOINTS IN CAP SHALL BE SPACED AT 24'-0" MAX. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION

A JOINT.

B

C

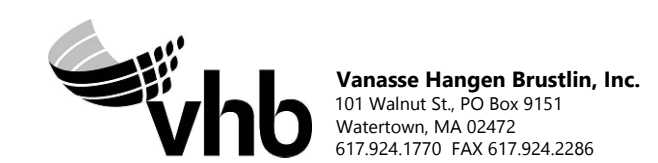
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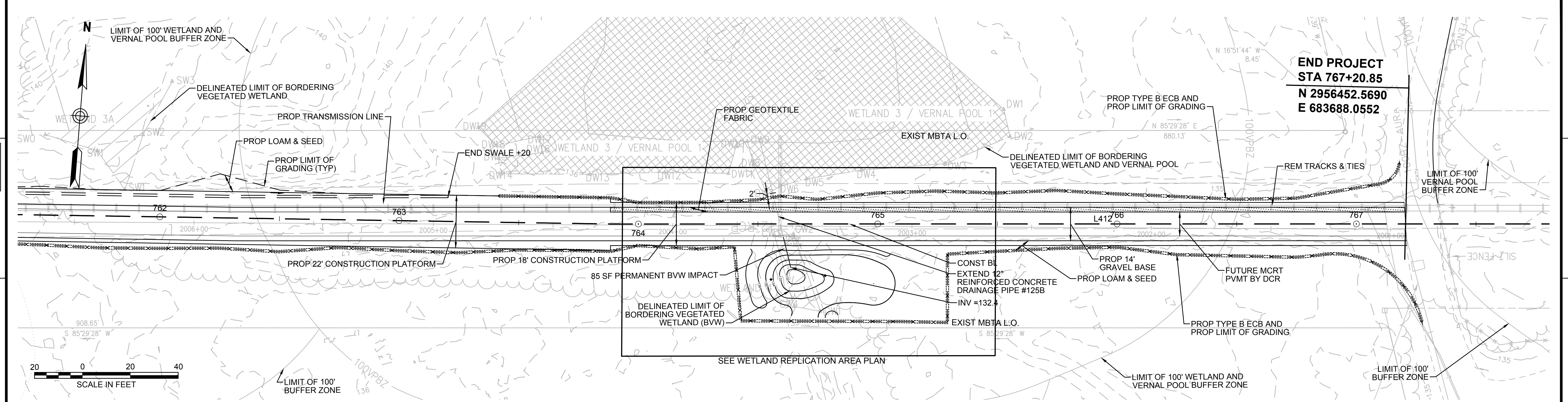
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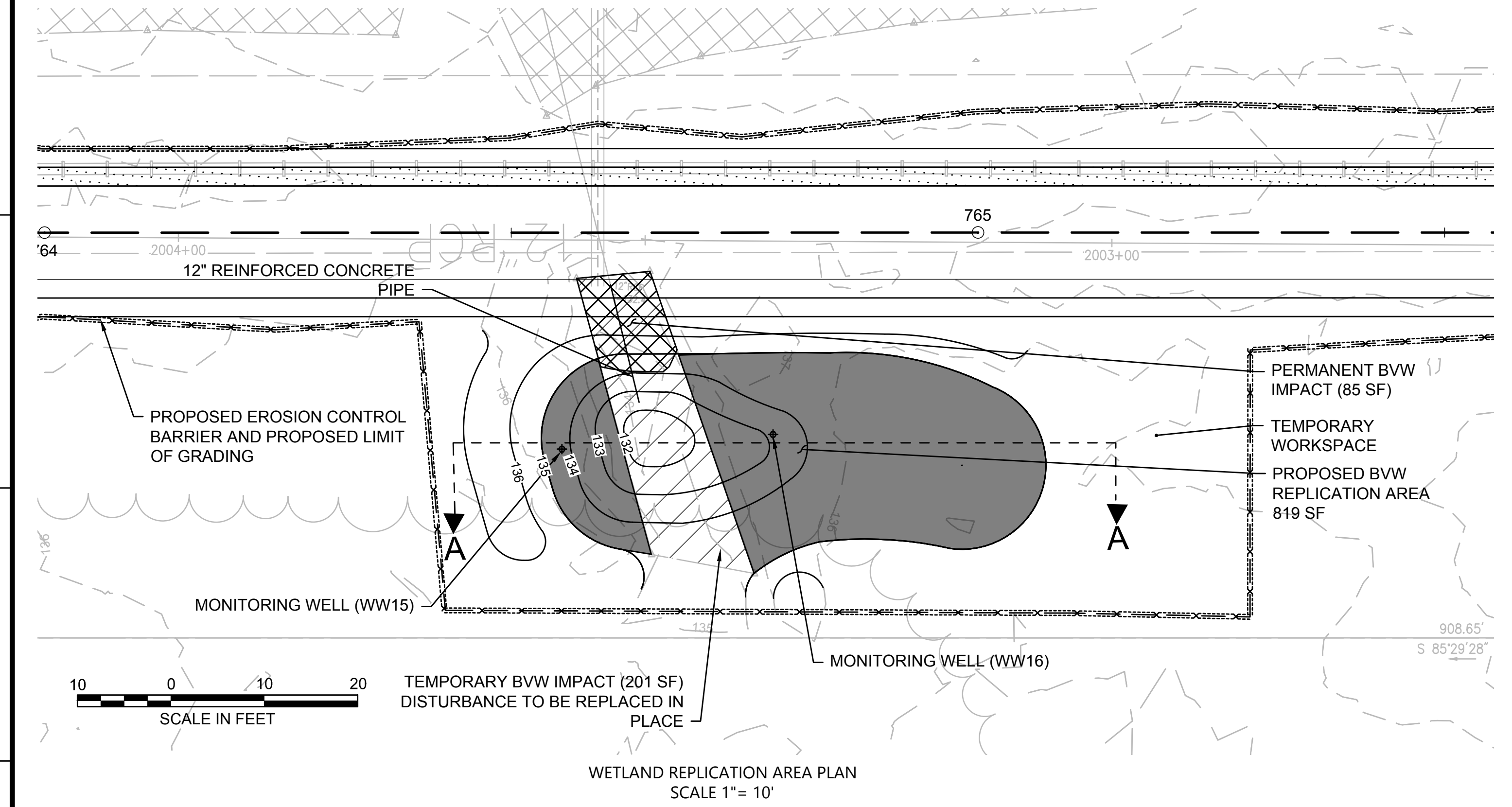


| N O.   | DESCRIPTION     | BY         | DATE       | APPR.      |
|--|-----------------|------------|------------|------------|
| <b>REVISION</b>                                    |                 |            |            |            |
| <b>EVERSOURCE</b>                                  |                 |            |            |            |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT    |                 |            |            |            |
| HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS |                 |            |            |            |
| CONSTRUCTION DETAILS                               |                 |            |            |            |
| PLAN 134 OF 316                                    |                 |            |            |            |
| SCALE: unless noted VARIES                         | DATE: JULY 2020 | DRAWN: AMS | CHK'D: SBK | APPR.: KGK |
| DRAWING NO.  | REV.            |            |            |            |

CONT. ON SHEET 68



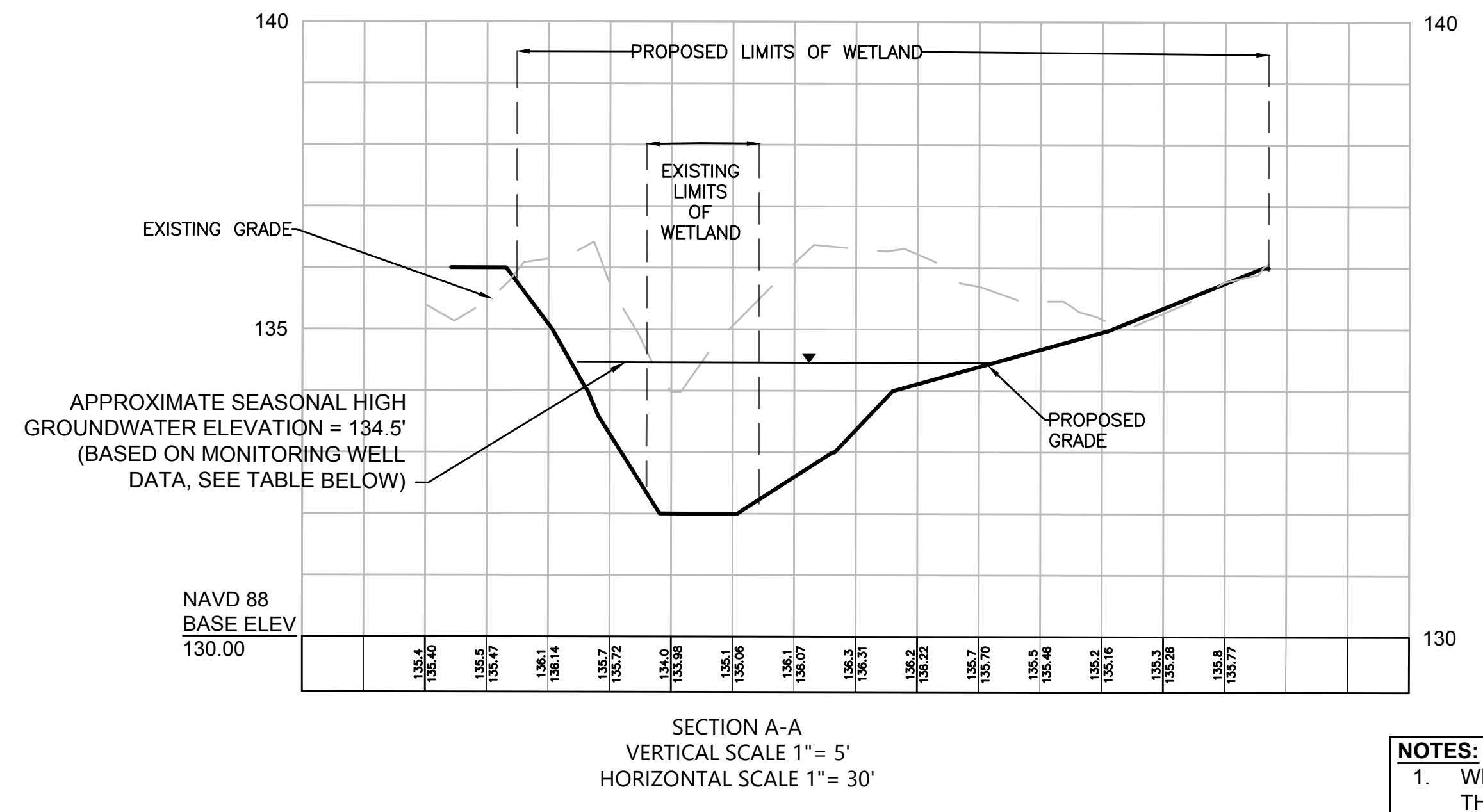
**END PROJECT  
STA 767+20.85  
N 2956452.5690  
E 683688.0552**



WETLAND REPLICATION AREA PLAN  
SCALE 1" = 10'

**LEGEND**

- TEMPORARY BVW IMPACTS (201 SF)
- PERMANENT BVW IMPACTS (85 SF)
- PROPOSED BVW REPLICATION AREA (819 SF)



| GROUNDWATER DEPTH (FT) |       |       |
|------------------------|-------|-------|
| DATE                   | WW15* | WW16* |
| 12/5/2018              | 1.50  | 1.46  |
| 1/10/2019              | 1.55  | 1.58  |
| 2/12/2019              | 1.60  | N/A   |
| 3/27/2019              | 1.56  | 1.55  |
| 4/18/2019              | 1.57  | 1.54  |
| 4/25/2019              | 1.48  | 1.46  |
| 5/23/2019              | 1.58  | 1.62  |

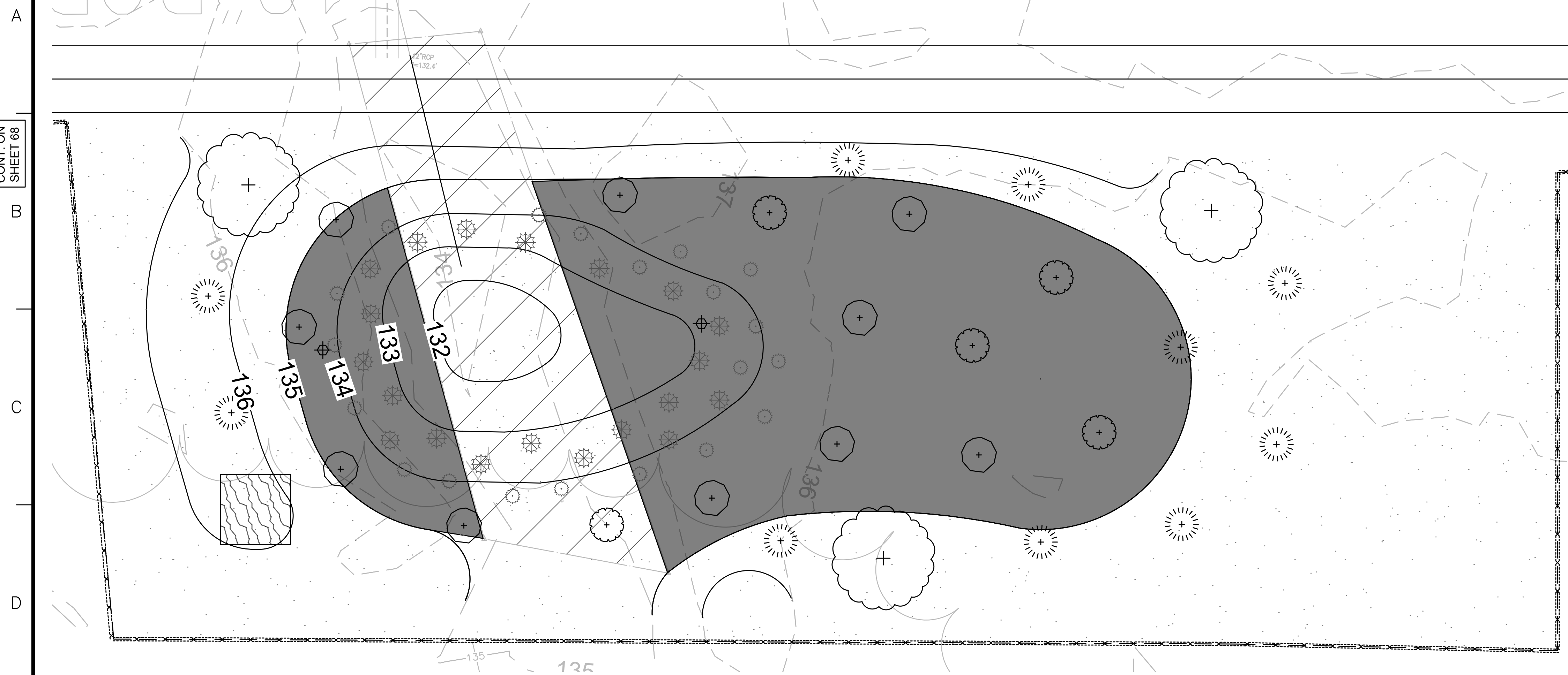
\*WW15 AND WW16 LOCATED AT APPROXIMATELY ELEV 136'

- NOTES:**
1. WETLAND BOUNDARIES SHOWN HEREIN ARE THE SAME AS THOSE SHOWN ON HUDSON AND SUDBURY ANRAD PLANS (2018).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.924.1770 FAX 617.924.2286

| N.O.  | DESCRIPTION | BY    | DATE  | APPR. |
|---|-------------|-------|-------|-------|
| <b>REVISION</b>                                   |             |       |       |       |
| <b>EVERSOURCE</b>                                 |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |       |       |
| WETLAND REPLICATION GRADING PLAN                  |             |       |       |       |
| PLAN 135 OF 316                                   |             |       |       |       |
| SCALE: unless noted<br>1"=20'                     | DATE        | DRAWN | CHK'D | APPR. |
|   | JULY 2020   | MBB   | EJM   | MAC   |
| DRAWING NO.                                       |             |       |       | REV.  |
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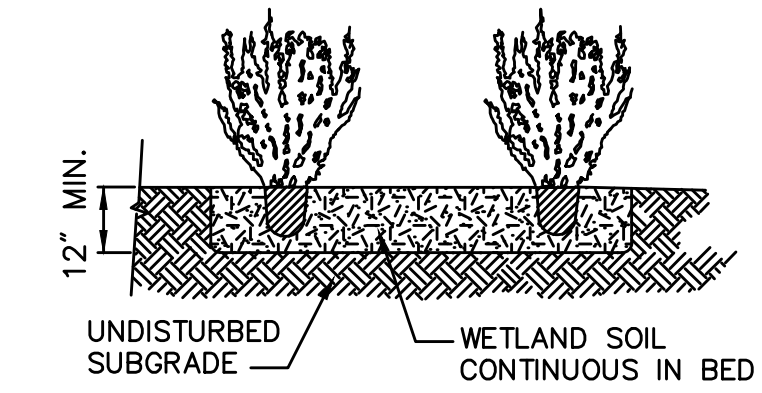
CONT. ON SHEET 68



WETLAND REPLICATION PLANTING PLAN  
SCALE 1" = 4'

| Specimen  | Wetland Status | Plant Type | Plant Size   | Quantity | Density/Spacing   |
|---|----------------|------------|--------------|----------|-------------------|
| <b>Basin Embankment:</b>                        |                |            |              |          |                   |
| buttonbush ( <i>Cephalanthus occidentalis</i> ) | OBL            | Shrub      | 18-24 inches | 10       | 8 ft. on center   |
| arrow arum ( <i>Peltandra virginica</i> )       | OBL            | Herbaceous | 2" plug      | 20       | 2-3 ft. on center |
| giant bur-reed ( <i>Sparganium eurycarpum</i> ) | OBL            | Herbaceous | 2" plug      | 20       | 2-3 ft. on center |
| silky dogwood ( <i>Swida amomum</i> )           | FACW           | Shrub      | 18-24 inches | 5        | 6 ft. on center   |
| Wetland seed mix <sup>1</sup>                   | --             | Herbaceous | --           |          | 18 lb./ac         |
| <b>Surrounding Buffer Zone:</b>                 |                |            |              |          |                   |
| red maple ( <i>Acer rubrum</i> )                | FAC            | Tree       | 1-2" caliper | 3        | 15 ft. on center  |
| sweet pepperbush ( <i>Clethra alnifolia</i> )   | FAC            | Shrub      | 18-24 inches | 10       | 6 ft. on center   |
| Wetland seed mix <sup>1</sup>                   | --             | Herbaceous | --           |          | 18 lb./ac         |

<sup>1</sup>Wetland seed mix: "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: fox sedge (*Carex vulpinoidea*), sallow sedge (*Carex lurida*), broom sedge (*Carex scoparia*), sensitive fern (*Onoclea sensibilis*), blue vervain (*Verbena hastata*), hop sedge (*Carex lupulina*), dark-green bulrush (*Scirpus atrovirens*), nodding bur-marigold (*Bidens cernua*), bristly sedge (*Carex comosa*), fringed sedge (*Carex crinita*), tall mannagrass (*Glyceria grandis*), wool-grass (*Scirpus cyperinus*), soft rush (*Juncus effusus*), spotted Joe-Pye-weed (*Eutrochium maculatum*), boneset (*Eupatorium perfoliatum*), American water-plantain (*Alisma subcordatum*), New England aster (*Symphotrichum novae-angliae*), rattlesnake mannagrass (*Glyceria canadensis*), purple-stem aster (*Symphotrichum puniceum*), soft-stemmed bulrush (*Schoenoplectus tabernaemontani*), blueflag (*Iris versicolor*), swamp milkweed (*Asclepias incarnata*), and Allegheny monkey-flower (*Mimulus ringens*).



**Shrub Planting** 6/08  
N.T.S. Source: WB LD\_691

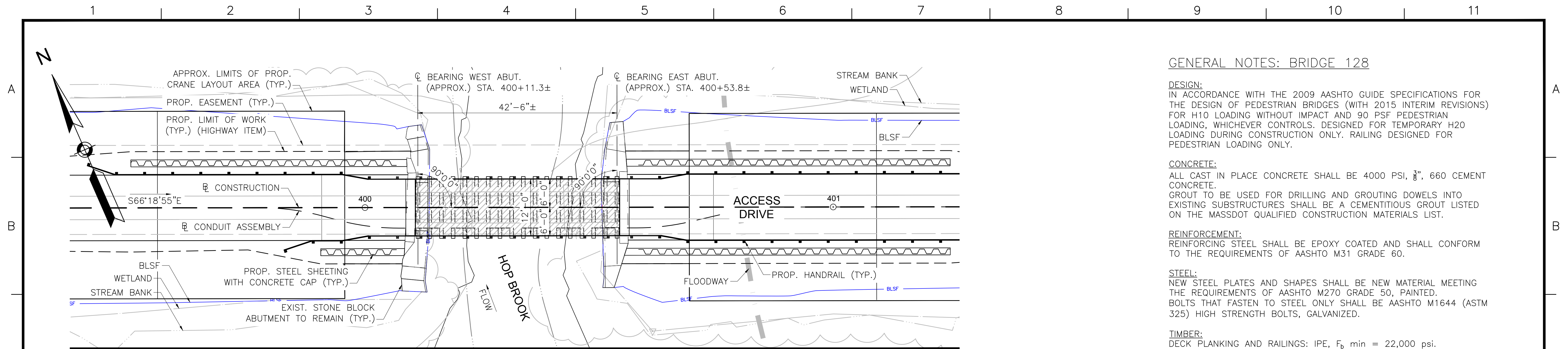
**LEGEND**

|  |                                   |  |                  |  |                |
|--|-----------------------------------|--|------------------|--|----------------|
|  | WETLAND SEED MIX                  |  | BUTTONBUSH       |  | GIANT BUR-REED |
|  | REPLICATION AREA/WETLAND SEED MIX |  | SWEET PEPPERBUSH |  | ARROW ARUM     |
|  | RED MAPLE                         |  | SILKY DOGWOOD    |  | TREE SNAG      |

- NOTES:**
- CONSTRUCTION OF THE WETLAND REPLICATION AREA WILL INCLUDE GRADING, SOILS PLACEMENT, AND PLANTING, AND ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF AN EXPERIENCED WETLAND SCIENTIST. ALL PLANTINGS SHALL BE PERFORMED IN SPRING (APRIL 15 TO JUNE 15) OR FALL (SEPTEMBER 1 TO OCTOBER 31).
  - AN EROSION CONTROL BARRIER WILL CONSIST OF SYNCOPATED SILT FENCE (TYPE B EROSION CONTROL BARRIER) AND SHALL BE INSTALLED ALONG THE ENTIRE PERIMETER OF THE REPLICATION AREA EXCEPT AT THE UPGRADIENT EDGE TO ALLOW ACCESS TO MACHINERY.
  - ALL AREAS TO BE PLANTED AS PART OF THE REPLICATION AREA SHALL BE CLEARED AND GRUBBED (AS NEEDED) AND SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE FINAL DESIGN ELEVATIONS. MINOR MODIFICATIONS TO THE GRADING PLAN MAY BE MADE IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST IN RESPONSE TO HYDROLOGIC CONDITIONS. THE SUPERVISING WETLAND SCIENTIST WILL INSPECT THE FINAL SUB-GRADE OF THE REPLICATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED.
  - THE TWELVE-INCH DBH SNAG THAT WILL BE REMOVED DURING CONSTRUCTION WILL BE REINSTALLED WITH A SIGNIFICANT PORTION OF THE ROOT MASS INTACT. THE SNAG WILL BE FIRMLY ENTRENCHED TO PREVENT FUTURE WINDTHROW.
  - THE REPLICATION AREA WILL THEN BE BACKFILLED WITH PREPARED WETLAND SOIL. PREPARED SOILS SHALL CONSIST OF A 1:1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS (IN THE SILT LOAM, LOAM, OR LOAMY SAND RANGE) TO INCREASE THE ORGANIC CARBON CONTENT TO BETWEEN 4 AND 12 PERCENT BY WEIGHT. CLEAN LEAF OR COMMERCIALY AVAILABLE COMPOST IS THE PREFERRED AMENDMENT TO ACHIEVE THIS STANDARD, ALTHOUGH OTHER MATERIALS MAY BE USED IF APPROVED BY THE SUPERVISING WETLAND SCIENTIST. AREAS TO BE PLANTED AS BVW SHOULD BE GRADED IN A SLIGHTLY IRREGULAR FASHION TO ALLOW FOR SMALL HUMMOCKS AND HOLLOWES APPROXIMATELY 6 INCHES ABOVE AND BELOW GRADE TO CREATE A PIT AND MOUND TOPOGRAPHY.
  - FALLEN LOGS, BRANCHES, AND OTHER NATURAL MATERIALS SHALL BE DISTRIBUTED IN THE REPLICATION AREA TO PROVIDE ADDITIONAL WILDLIFE HABITAT. THESE MATERIALS SHALL COVER 2 TO 4 PERCENT OF THE REPLICATION AREA'S SURFACE AND SHALL NOT INCLUDE ANY KNOWN INVASIVE SPECIES. WOODY MATERIAL SHOULD VARY IN SIZE AND DEGREE OF DECOMPOSITION.
  - ONCE WETLAND SOILS AND ANY NATURAL MATERIALS HAVE BEEN PLACED, ANY EQUIPMENT OR VEHICLES EXERTING A GROUND PRESSURE OF 3 PSI OR GREATER SHALL NO LONGER BE ALLOWED IN THE REPLICATION AREA TO AVOID COMPACTING THE WETLAND SOILS.
  - PLANTINGS WILL BE INSTALLED ONCE THE ABOVE TASKS HAVE BEEN COMPLETED. ALL SHRUB PLANTING WORK SHALL BE PERFORMED BY HAND USING HAND TOOLS ONLY. THE SPECIES, SIZE, AND QUANTITY OF PLANTINGS SHALL FOLLOW THE PLANTING SCHEDULE. ONLY PLANT MATERIALS NATIVE TO THE REGION SHALL BE USED. IN THE EVENT THAT PLANT SUBSTITUTIONS ARE NECESSARY, THE SUPERVISING WETLAND SCIENTIST OR ANOTHER QUALIFIED WETLAND SCIENTIST OR BOTANIST SHALL BE CONSULTED. ALL WOODY PLANT STOCK SHALL EITHER BE BARE-ROOT OR CONTAINER-GROWN. PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN SPECIFIED ON THE PLAN, ALTHOUGH THE SUPERVISING WETLAND SCIENTIST MAY DIRECT THE PROJECT CONTRACTOR TO RELOCATE PLANTINGS BASED ON FIELD CONDITIONS.
  - FOLLOWING SHRUB PLANTINGS, THE AREA WILL BE SEEDDED WITH A NATIVE WETLAND SEED MIX AS SPECIFIED IN THE PLANTING SCHEDULE OR A SIMILAR MIX. THE SEED MIX SHALL BE APPLIED AT A RATE AND IN A MANNER ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
  - FOLLOWING COMPLETION OF PLANTING AND SEEDING, A LINE OF EROSION CONTROLS WILL BE INSTALLED ALONG THE UPGRADIENT EDGE OF THE REPLICATION AREA. ALL EROSION CONTROLS AROUND THE REPLICATION AREA SHALL REMAIN IN PLACE UNTIL VEGETATION IS WELL-ESTABLISHED AND SOILS HAVE STABILIZED. EROSION CONTROLS WILL REMAIN IN PLACE UNTIL REMOVAL HAS BEEN APPROVED BY THE ENVIRONMENTAL MONITOR.
  - THE REPLICATION AREA WILL BE MONITORED FOR TWO FULL GROWING SEASONS AFTER PLANTING. THE AREA WILL BE INSPECTED TWICE PER YEAR TO ASSESS WHETHER THE AREA HAS ACHIEVED 75 PERCENT COVER BY REGIONAL INDIGENOUS WETLAND SPECIES. CONSIDERATION WILL BE GIVEN TO OTHER NATIVE WETLAND PLANT SPECIES THAT BECOME ESTABLISHED IN THE REPLICATION.
  - INVASIVE SPECIES WITHIN THE REPLICATION AREA SHALL BE REMOVED BY HAND FOR TWO GROWING SEASONS AFTER PLANTING. IF NECESSARY ANY AREAS WHERE INVASIVE SPECIES HAVE BEEN REMOVED WILL BE RESEEDDED WITH A SUITABLE WETLAND SEED MIX.
  - SHRUBS AND SEED MIX ARE SUBJECT TO CHANGE OR SUBSTITUTION PENDING AVAILABILITY AND ACTUAL SITE CONDITIONS.

|   |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
|---|--|--|-----------|-------------|--|-------|--|---------|-------|-------|--|-------|--|--|--|
| NO.   |  |  |           | DESCRIPTION |  |       |  | BY DATE |       | APPR. |  |       |  |  |  |
| <b>EVERSOURCE</b>                                 |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
| WETLAND REPLICATION PLANTING PLAN                 |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
| PLAN 136 OF 316                                   |  |  |           |             |  |       |  |         |       |       |  |       |  |  |  |
| SCALE: unless noted<br>1"=4'                      |  |  | DATE      |             |  | DRAWN |  |         | CHK'D |       |  | APPR. |  |  |  |
|   |  |  | JULY 2020 |             |  | MBB   |  |         | EJM   |       |  | MAC   |  |  |  |
| DRAWING NO.                                       |  |  |           | REV.        |  |       |  |         |       |       |  |       |  |  |  |

Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02457  
617.924.1770 FAX 617.924.2286



**BRIDGE KEY PLAN**  
SCALE: 1"=10'

**GENERAL NOTES: BRIDGE 128**

**DESIGN:**  
IN ACCORDANCE WITH THE 2009 AASHTO GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (WITH 2015 INTERIM REVISIONS) FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. DESIGNED FOR TEMPORARY H20 LOADING DURING CONSTRUCTION ONLY. RAILING DESIGNED FOR PEDESTRIAN LOADING ONLY.

**CONCRETE:**  
ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI, 3", 660 CEMENT CONCRETE.  
GROUT TO BE USED FOR DRILLING AND GROUTING DOWELS INTO EXISTING SUBSTRUCTURES SHALL BE A CEMENTITIOUS GROUT LISTED ON THE MASSDOT QUALIFIED CONSTRUCTION MATERIALS LIST.

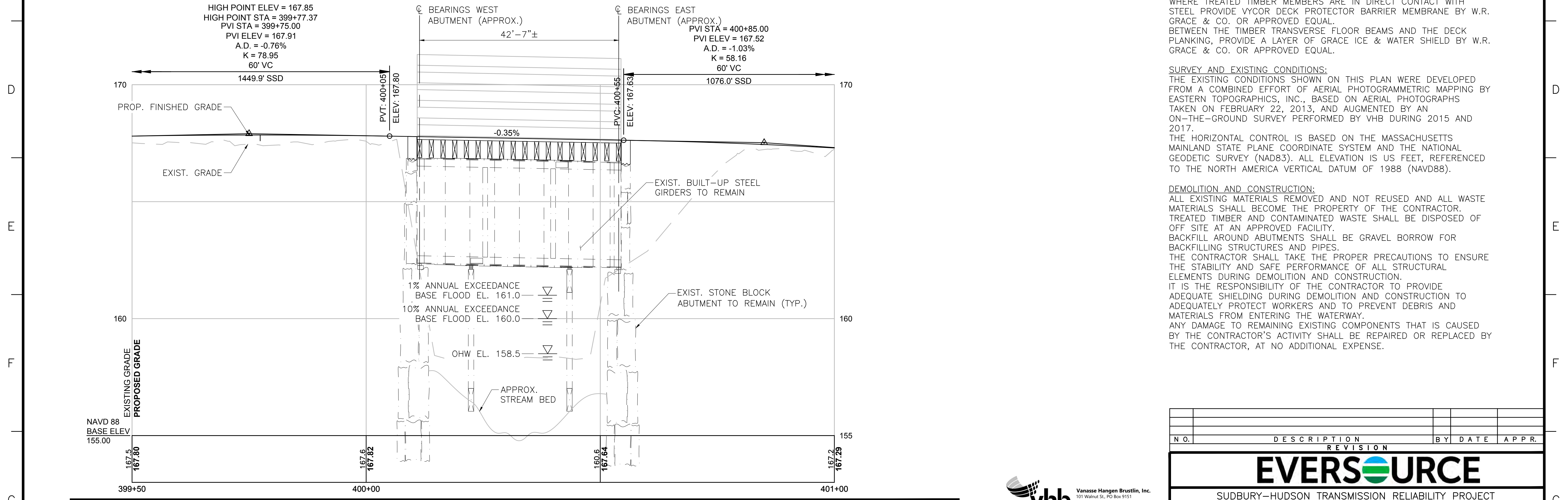
**REINFORCEMENT:**  
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

**STEEL:**  
NEW STEEL PLATES AND SHAPES SHALL BE NEW MATERIAL MEETING THE REQUIREMENTS OF AASHTO M270 GRADE 50, PAINTED.  
BOLTS TO STEEL ONLY SHALL BE AASHTO M1644 (ASTM 325) HIGH STRENGTH BOLTS, GALVANIZED.

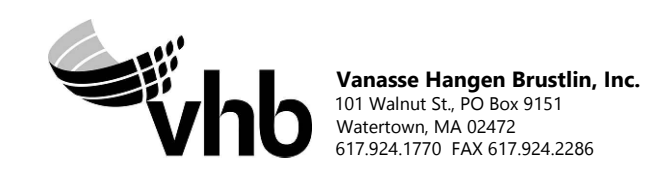
**TIMBER:**  
DECK PLANKING AND RAILINGS: IPE,  $F_b$  min = 22,000 psi.  
FLOOR BEAMS: SYP NO. 1 OR BETTER,  $F_b$  min = 1,050 psi.  
SYP TIMBER SHALL BE TREATED WITH ACQ-D WITH 0.60 PCF RETENTION.  
ALL NAILS, SCREWS, BOLTS, WASHERS, CONNECTORS, FASTENERS AND HARDWARE FOR WOOD CONNECTIONS SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316.  
WHERE TREATED TIMBER MEMBERS ARE IN DIRECT CONTACT WITH STEEL PROVIDE VYCOR DECK PROTECTOR BARRIER MEMBRANE BY W.R. GRACE & CO. OR APPROVED EQUAL.  
BETWEEN THE TIMBER TRANSVERSE FLOOR BEAMS AND THE DECK PLANKING, PROVIDE A LAYER OF GRACE ICE & WATER SHIELD BY W.R. GRACE & CO. OR APPROVED EQUAL.

**SURVEY AND EXISTING CONDITIONS:**  
THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.  
THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).

**DEMOLITION AND CONSTRUCTION:**  
ALL EXISTING MATERIALS REMOVED AND NOT REUSED AND ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TREATED TIMBER AND CONTAMINATED WASTE SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY.  
BACKFILL AROUND ABUTMENTS SHALL BE GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.  
THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING DEMOLITION AND CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHIELDING DURING DEMOLITION AND CONSTRUCTION TO ADEQUATELY PROTECT WORKERS AND TO PREVENT DEBRIS AND MATERIALS FROM ENTERING THE WATERWAY.  
ANY DAMAGE TO REMAINING EXISTING COMPONENTS THAT IS CAUSED BY THE CONTRACTOR'S ACTIVITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE.

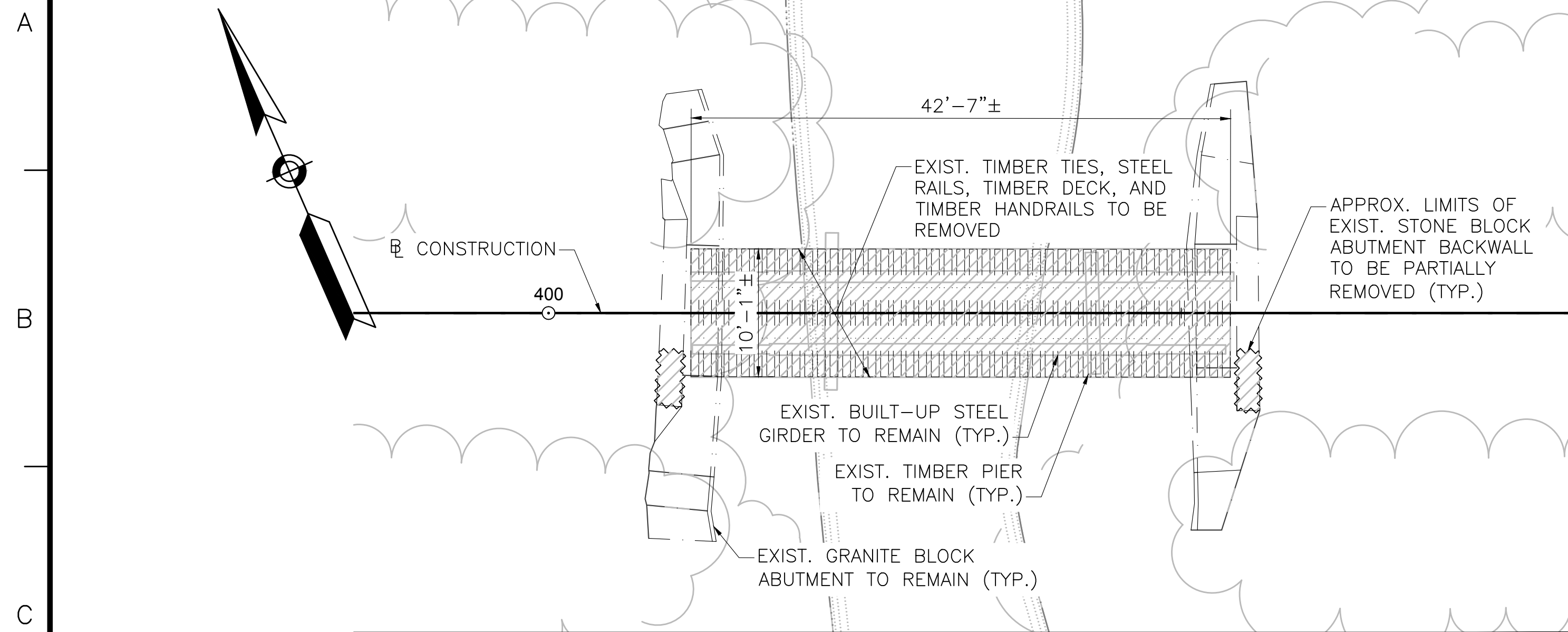


**PROFILE - ACCESS DRIVE**  
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1/2"=1'-0"

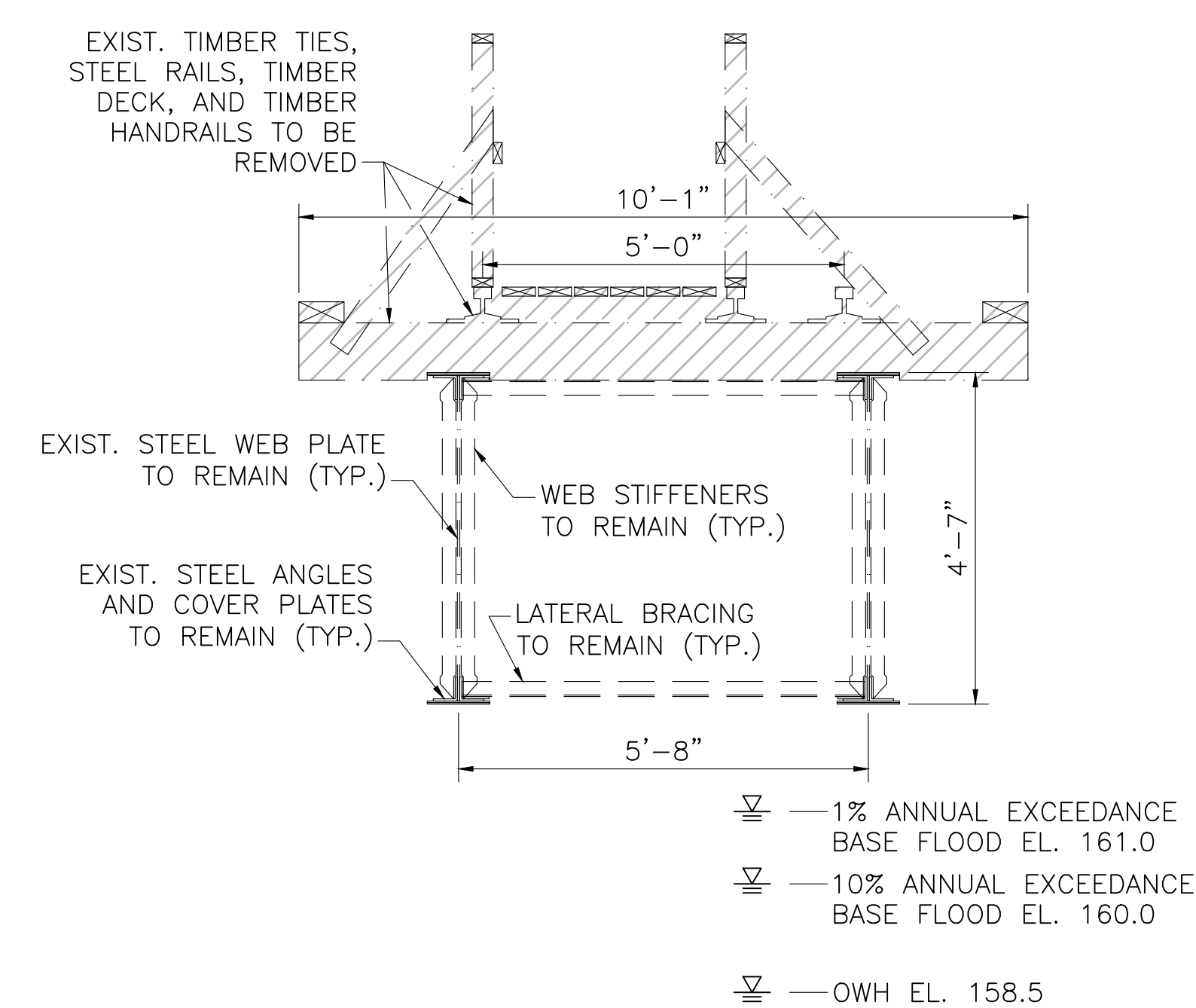


| N.O.  | DESCRIPTION       | BY           | DATE          | APPR.        |
|---|-------------------|--------------|---------------|--------------|
| REVISION  |                   |              |               |              |
| <b>EVERSOURCE</b>                                 |                   |              |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |              |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |              |               |              |
| BRIDGE S-31-017 (BRIDGE 128) - KEY PLAN & PROFILE |                   |              |               |              |
| PLAN 156 OF 316                                   |                   |              |               |              |
| SCALE: unless noted<br>H: 1"=10' V: 1/2"=1'-0"    | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGK |
| DRAWING NO.                                       | REV.              |              |               |              |

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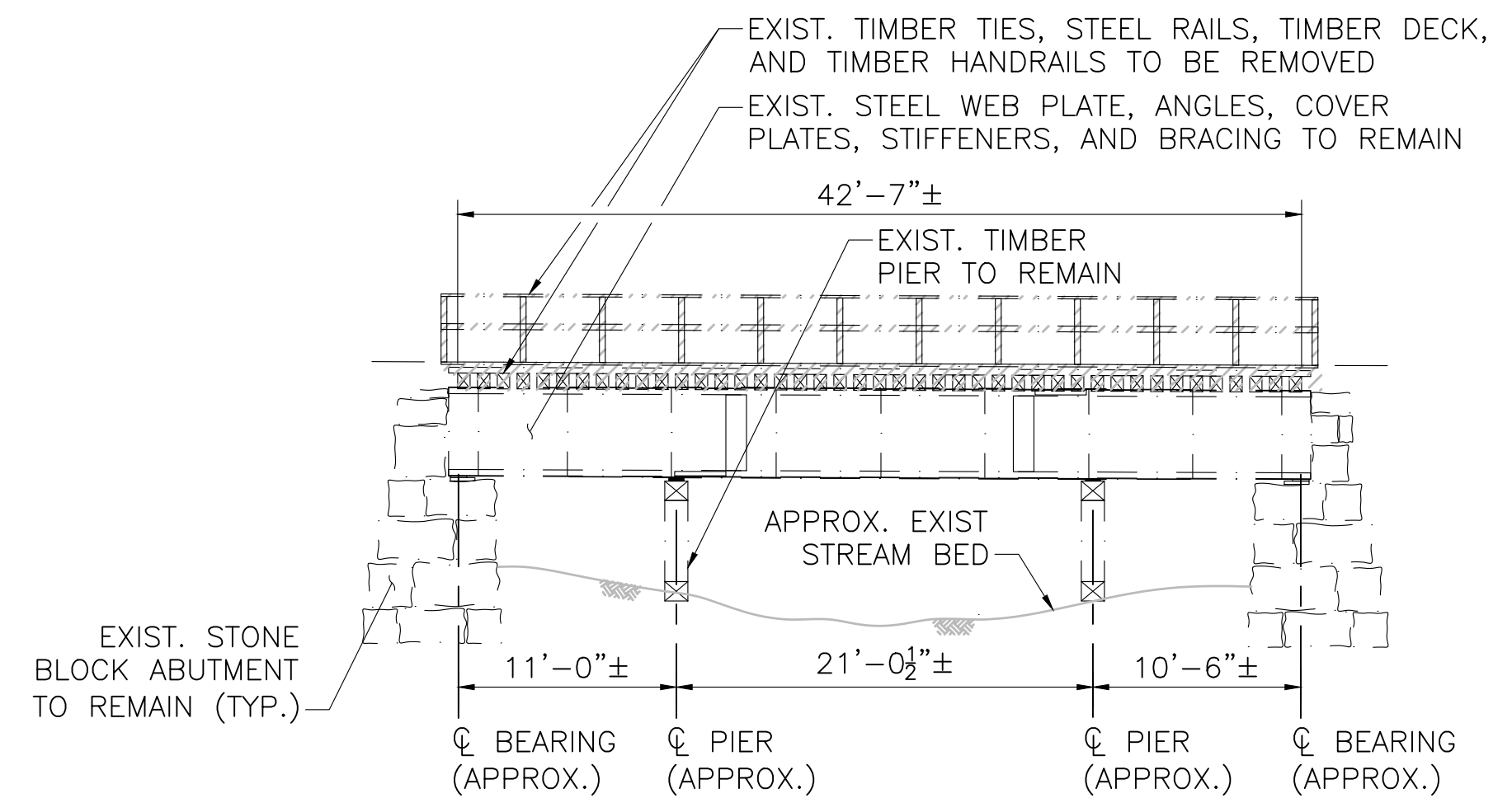


**BRIDGE PLAN**  
SCALE: 1/8"=1'-0"

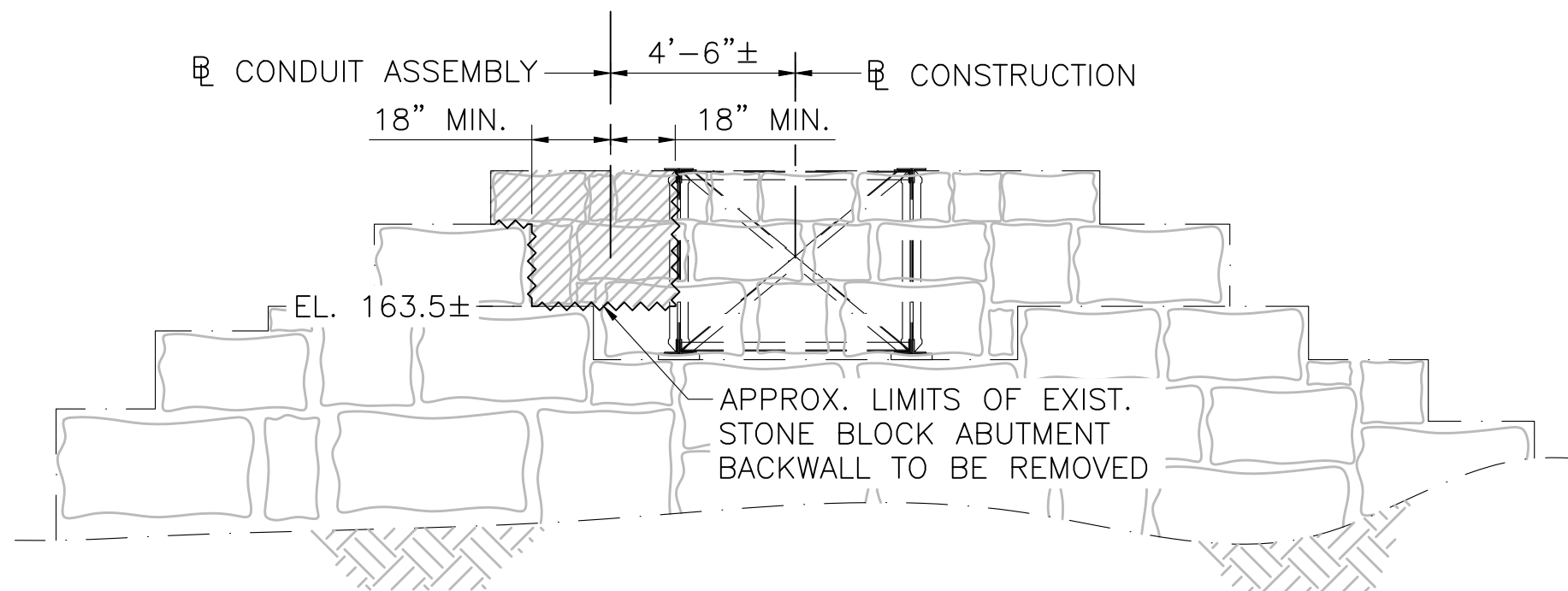


**BRIDGE TRANSVERSE SECTION**  
SCALE: 1/2"=1'-0"

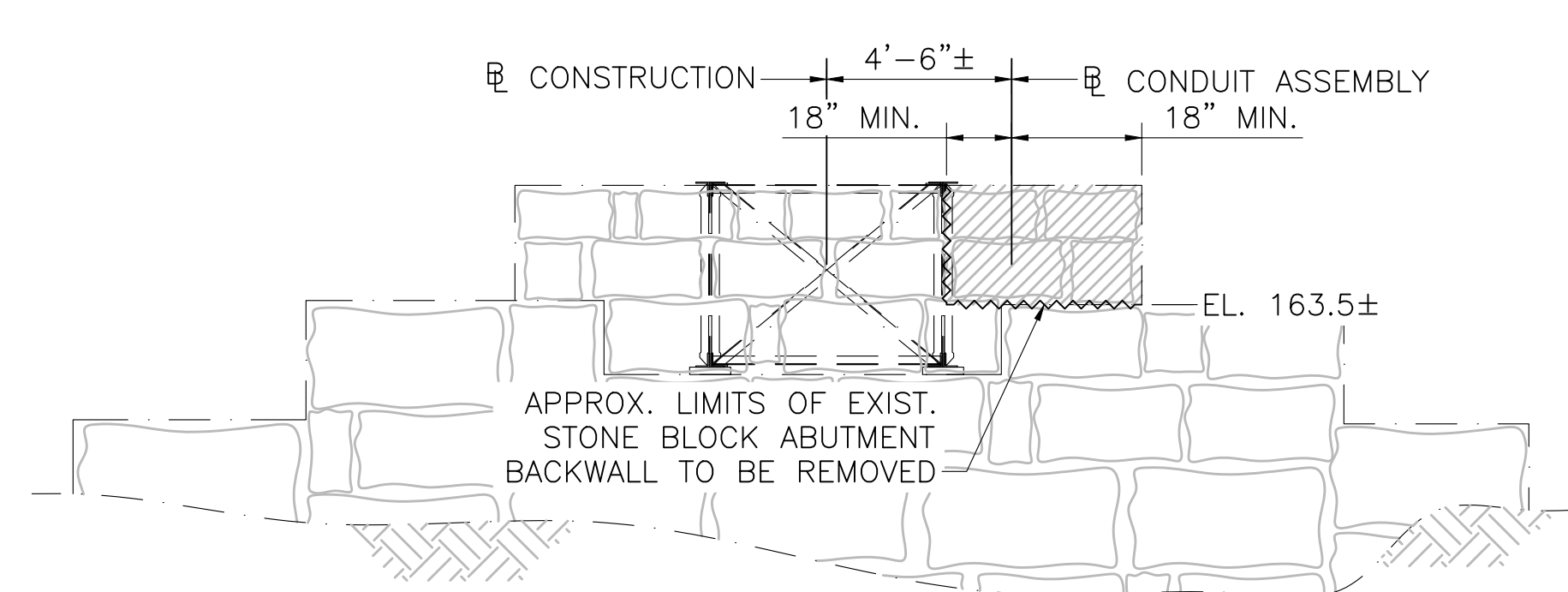
NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



**BRIDGE ELEVATION**  
SCALE: 1/4"=1'-0"



**WEST ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"

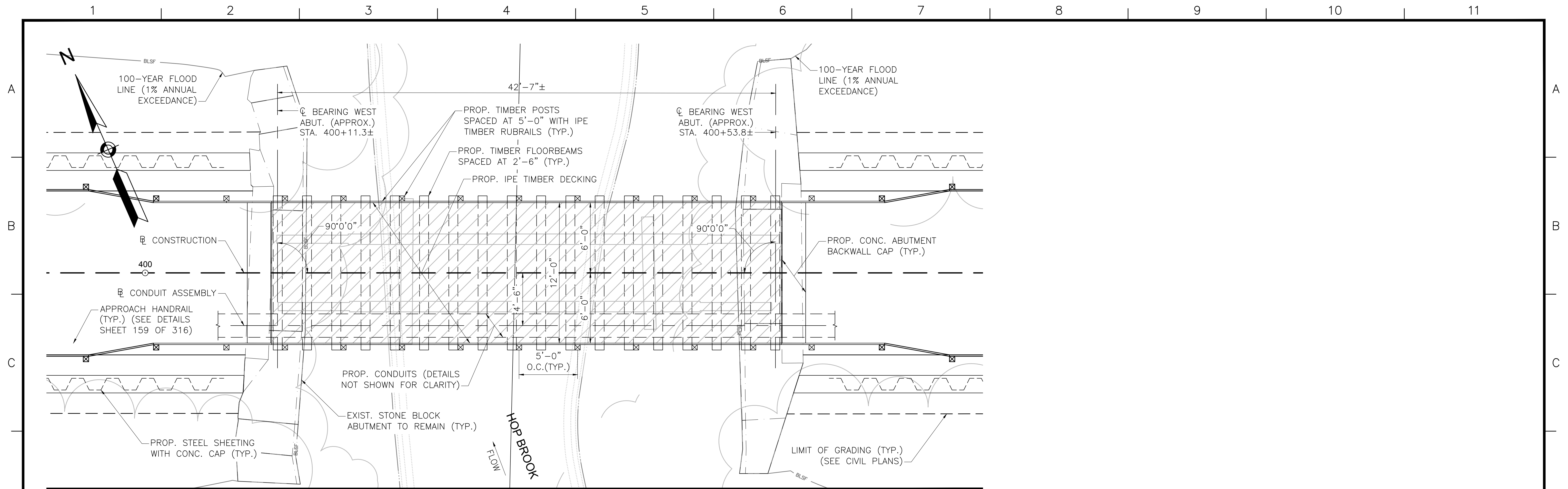


**EAST ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"



| NO.   |                 | DESCRIPTION |            | BY         | DATE         | APPR. |
|---|-----------------|-------------|------------|------------|--------------|-------|
| REVISION  |                 |             |            |            |              |       |
| <b>EVERSOURCE</b>                                 |                 |             |            |            |              |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                 |             |            |            |              |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                 |             |            |            |              |       |
| BRIDGE S-31-017 (BRIDGE 128) - DEMOLITION PLAN    |                 |             |            |            |              |       |
| PLAN 57 OF 316                                    |                 |             |            |            |              |       |
| SCALE: unless noted VARIES                        | DATE: JULY 2020 | DRAWN: AMS  | CHK'D: SBK | APPR.: KGK | DRAWING NO.: | REV.: |

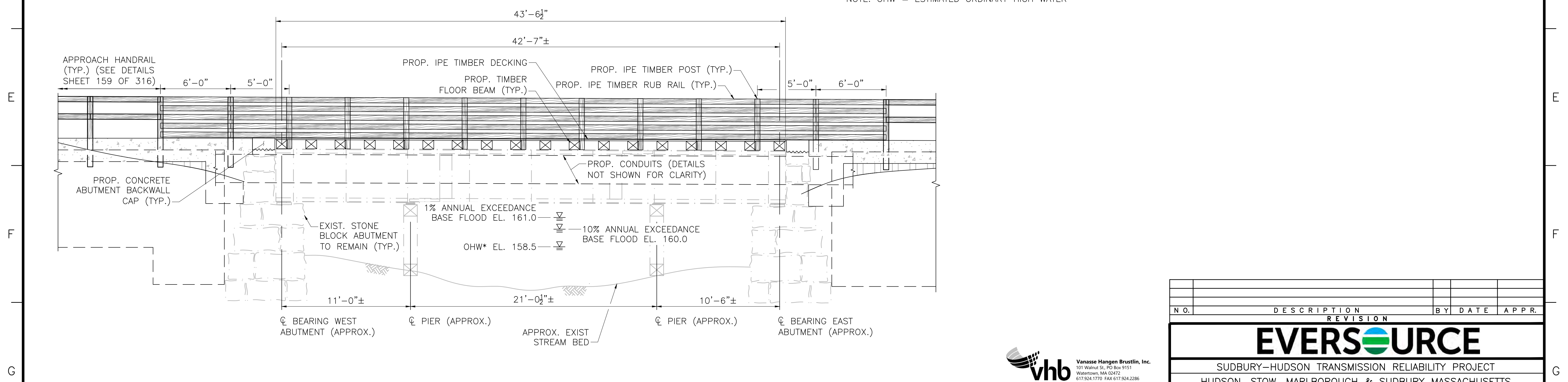
1 2 3 4 5 6 7 8 9 10 11



**BRIDGE 128 (HOP BROOK) PLAN**

SCALE: 1/4"=1'-0"

\*NOTE: OHW = ESTIMATED ORDINARY HIGH WATER



**BRIDGE 128 (HOP BROOK) ELEVATION**

SCALE: 1/4"=1'-0"



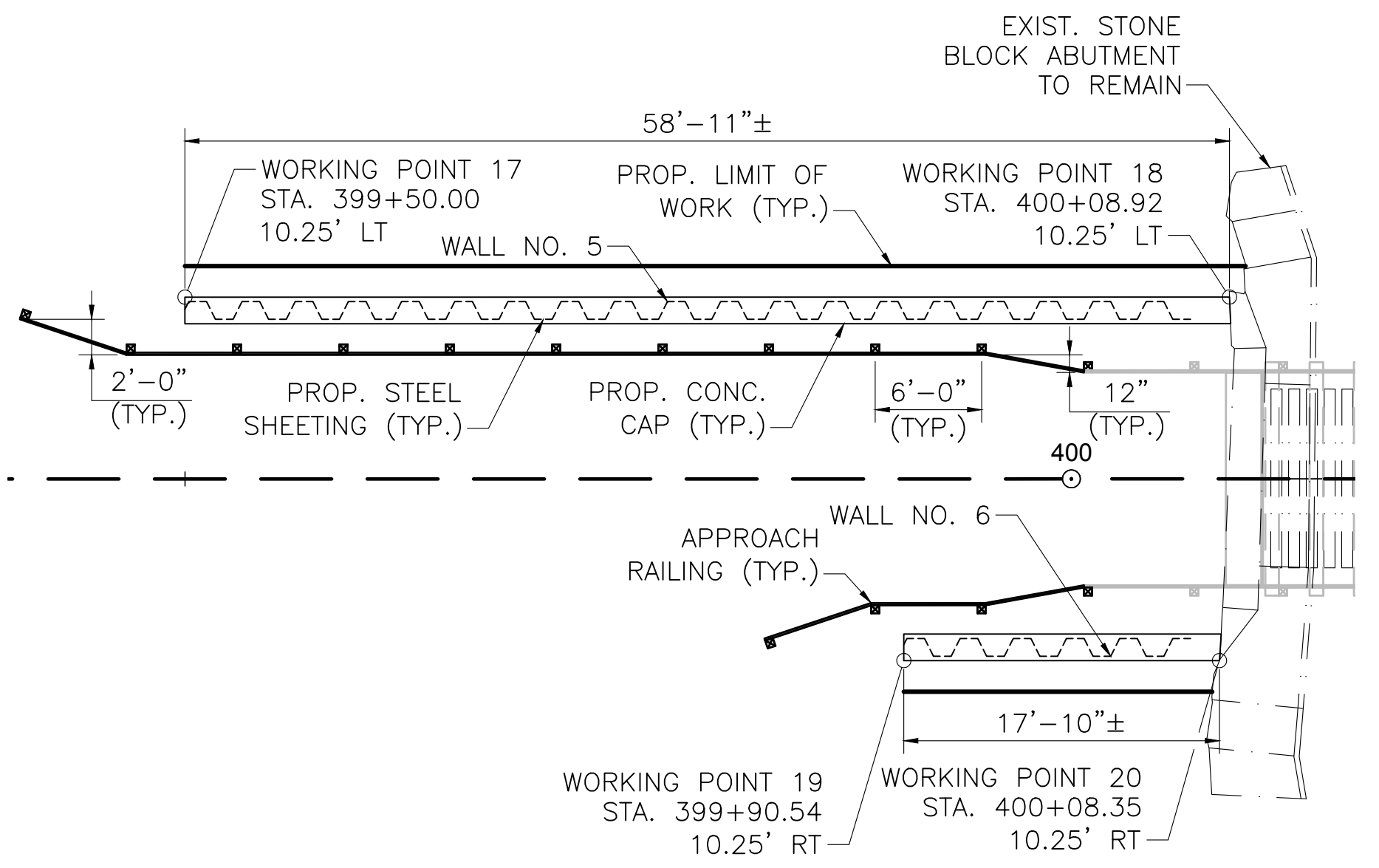
| N.O.  | DESCRIPTION       | BY           | DATE          | APPR.        |
|---|-------------------|--------------|---------------|--------------|
| REVISION  |                   |              |               |              |
| <b>EVERSOURCE</b>                                 |                   |              |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |              |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |              |               |              |
| BRIDGE S-31-017 (BRIDGE 128) - PLAN & ELEVATION   |                   |              |               |              |
| PLAN 158 OF 316                                   |                   |              |               |              |
| SCALE: unless noted<br>1"=4'                      | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGK |
| DRAWING NO.                                       |                   |              |               | REV.         |

DRAWING NO. REV.



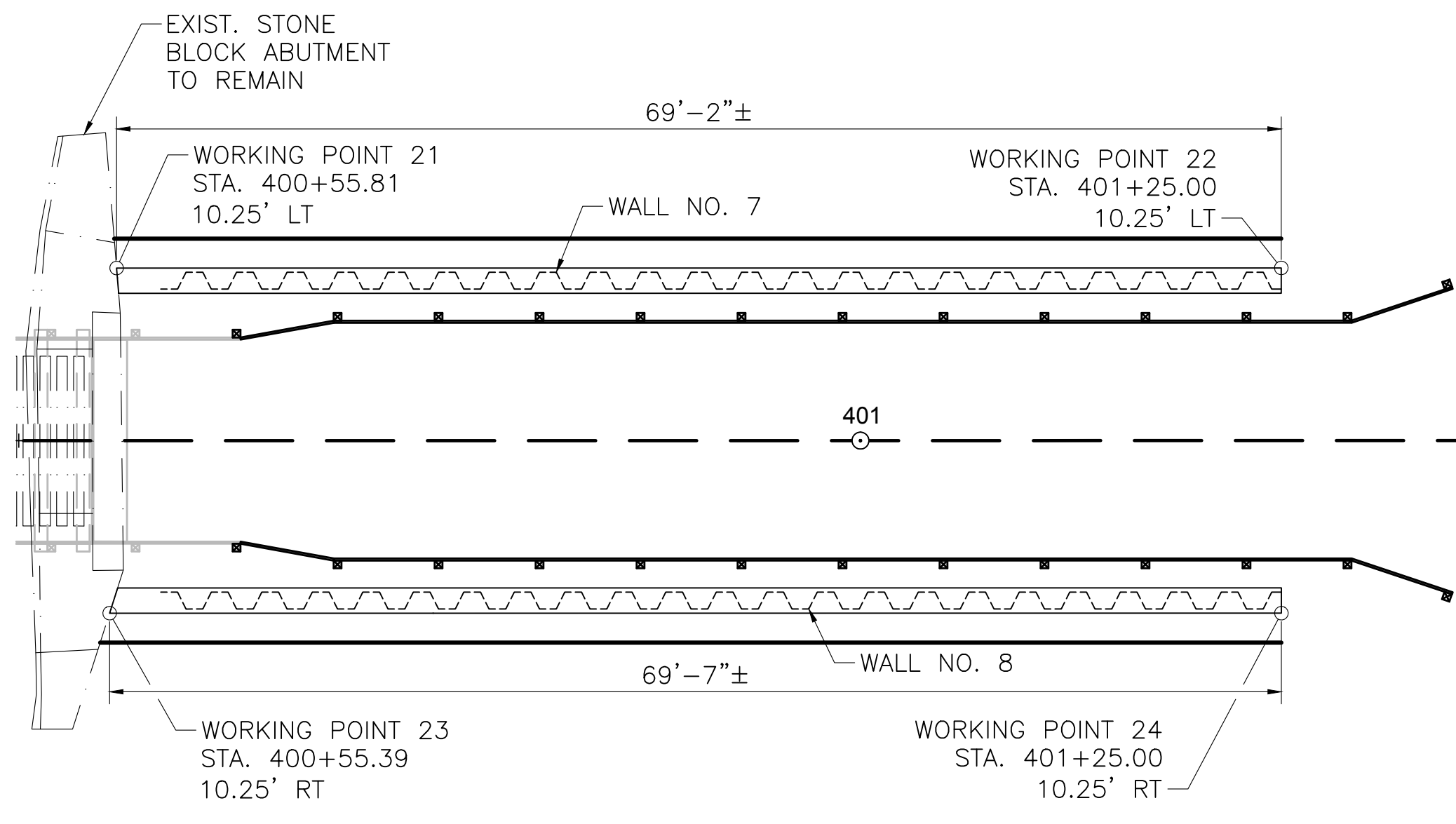
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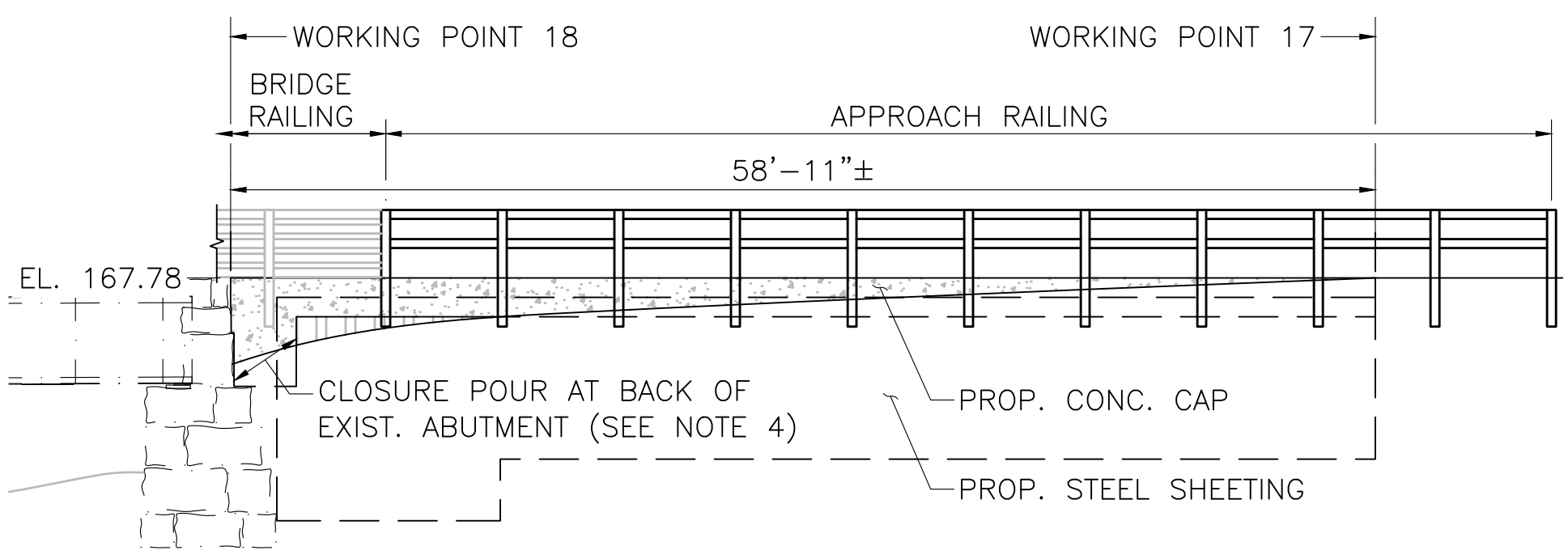
**WALL 5 & 6 SHEETING PLAN (WEST APPROACH)**

SCALE: 1/8"=1'-0"



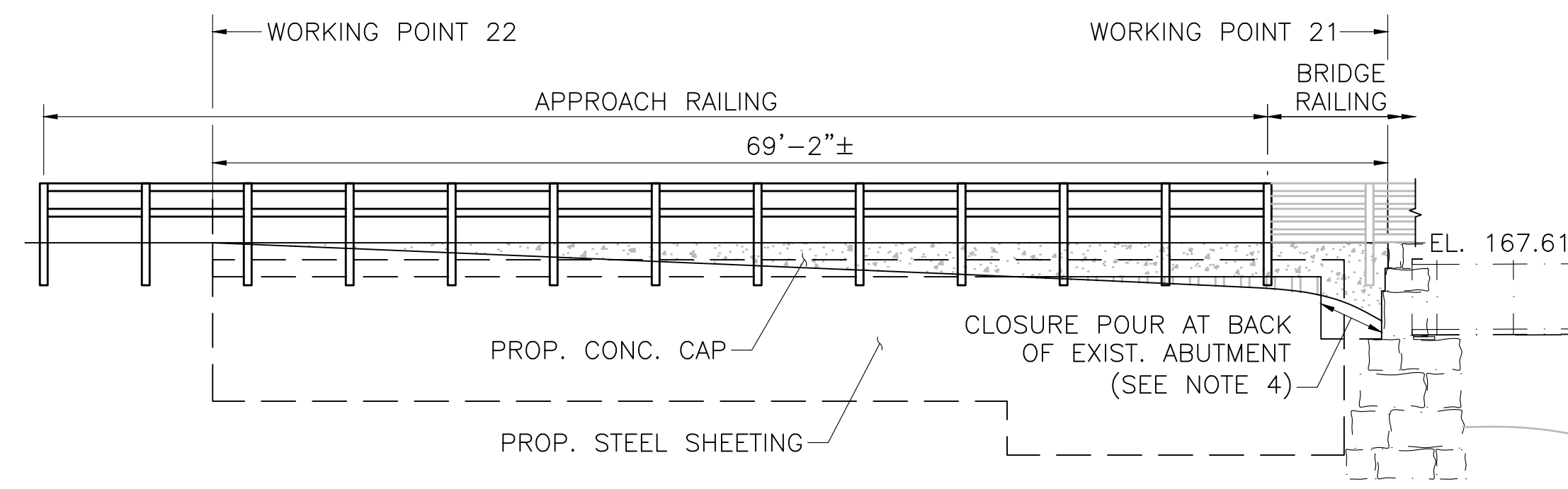
**WALL 7 & 8 SHEETING PLAN (EAST APPROACH)**

SCALE: 1/8"=1'-0"



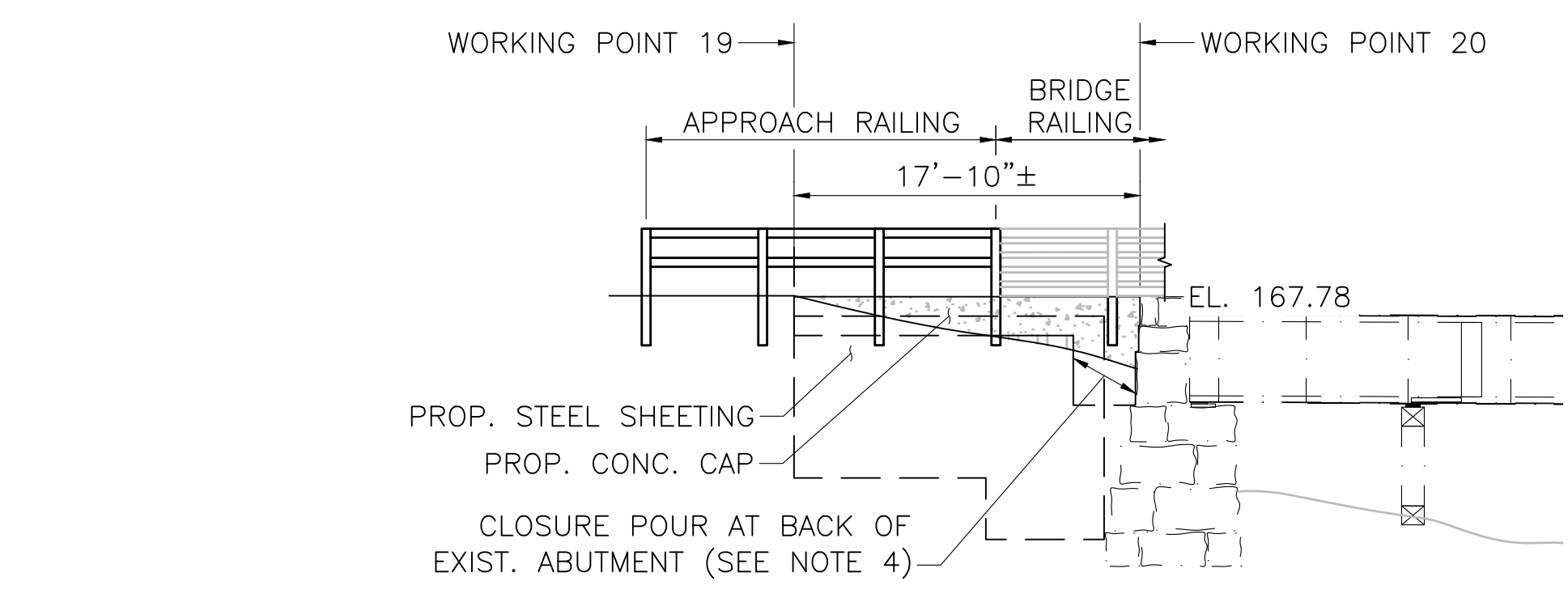
**WALL 5 ELEVATION (WEST APPROACH NORTH SHEETING WALL)**

SCALE: 1/8"=1'-0"



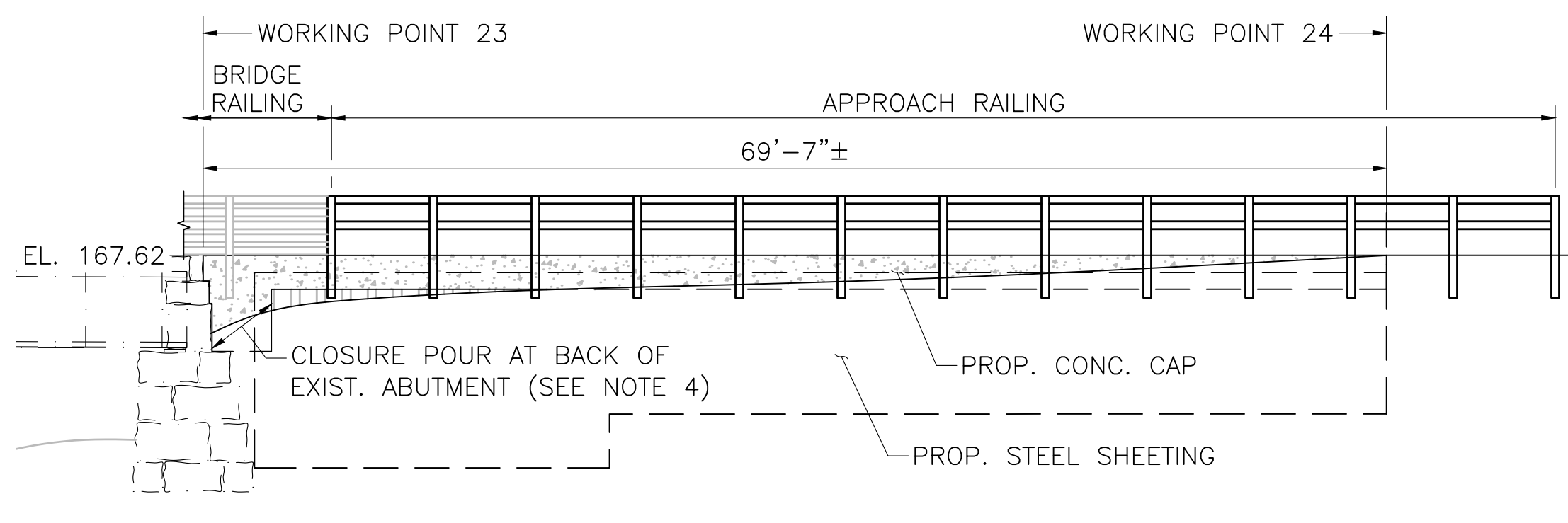
**WALL 7 (EAST APPROACH NORTH SHEETING WALL)**

SCALE: 1/8"=1'-0"



**WALL 6 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)**

SCALE: 1/8"=1'-0"

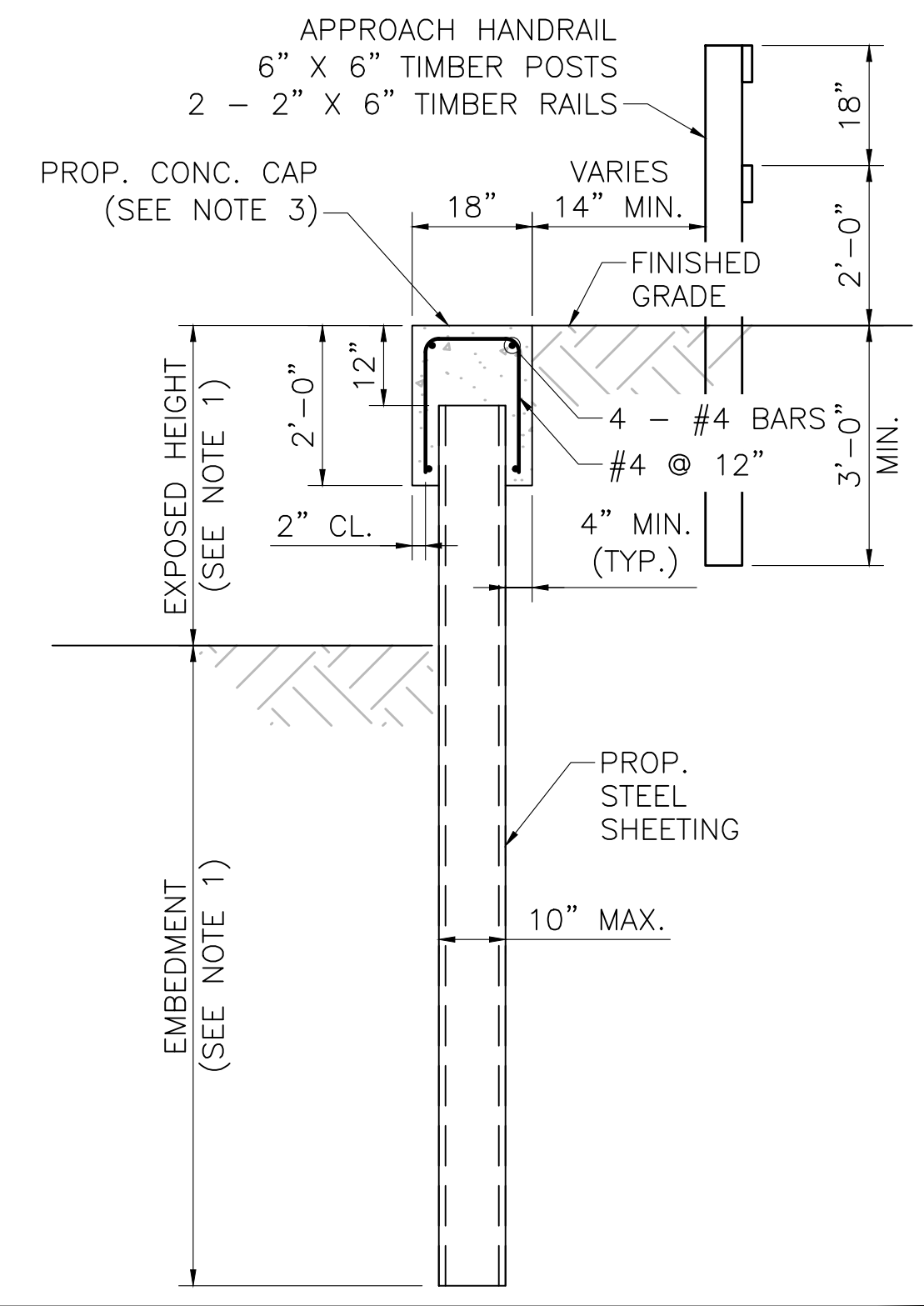


**WALL 8 ELEVATION (EAST APPROACH SOUTH SHEETING WALL)**

SCALE: 1/8"=1'-0"

**NOTES:**

1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS ( $S_x$ ) OF 7.08 IN<sup>3</sup> PER FOOT.
3. CONC. CAP SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE. REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED STEEL IN ACCORDANCE WITH AASHTO M31. CONSTRUCTION JOINTS IN CAP SHALL BE SPACED AT 24'-0" MAX. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT.
4. CONTRACTOR SHALL DETERMINE LIMITS OF EXISTING STONE BLOCK ABUTMENTS PRIOR TO DRIVING SHEETING. SHEETING SHALL BE DRIVEN AS CLOSE TO THE BACK OF THE EXISTING ABUTMENTS AS PRACTICAL. WORKING POINT STATION/OFFSET AT THESE LOCATIONS (3, 6, 7, AND 10) IS SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. CONCRETE CAP SHALL BE EXTENDED AS NEEDED TO FORM A CLOSURE POUR BETWEEN END OF SHEETING AND BACK EXISTING ABUTMENT. HEIGHT OF CAP SHALL BE INCREASED AT CLOSURE POUR AS NEEDED TO MAINTAIN REQUIRED GRADE SEPARATION.

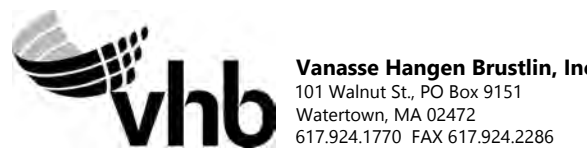


**TYPICAL SHEETING SECTION**

SCALE: 1/2"=1'-0"

| EXPOSED HEIGHT | EMBEDMENT     |
|----------------|---------------|
| 2'-0" (MAX.)   | 7'-4" (MIN.)  |
| 3'-0" (MAX.)   | 9'-5" (MIN.)  |
| 4'-0" (MAX.)   | 11'-6" (MIN.) |
| 5'-0" (MAX.)   | 13'-7" (MIN.) |
| 6'-0" (MAX.)   | 15'-7" (MIN.) |
| 7'-0" (MAX.)   | 17'-7" (MIN.) |

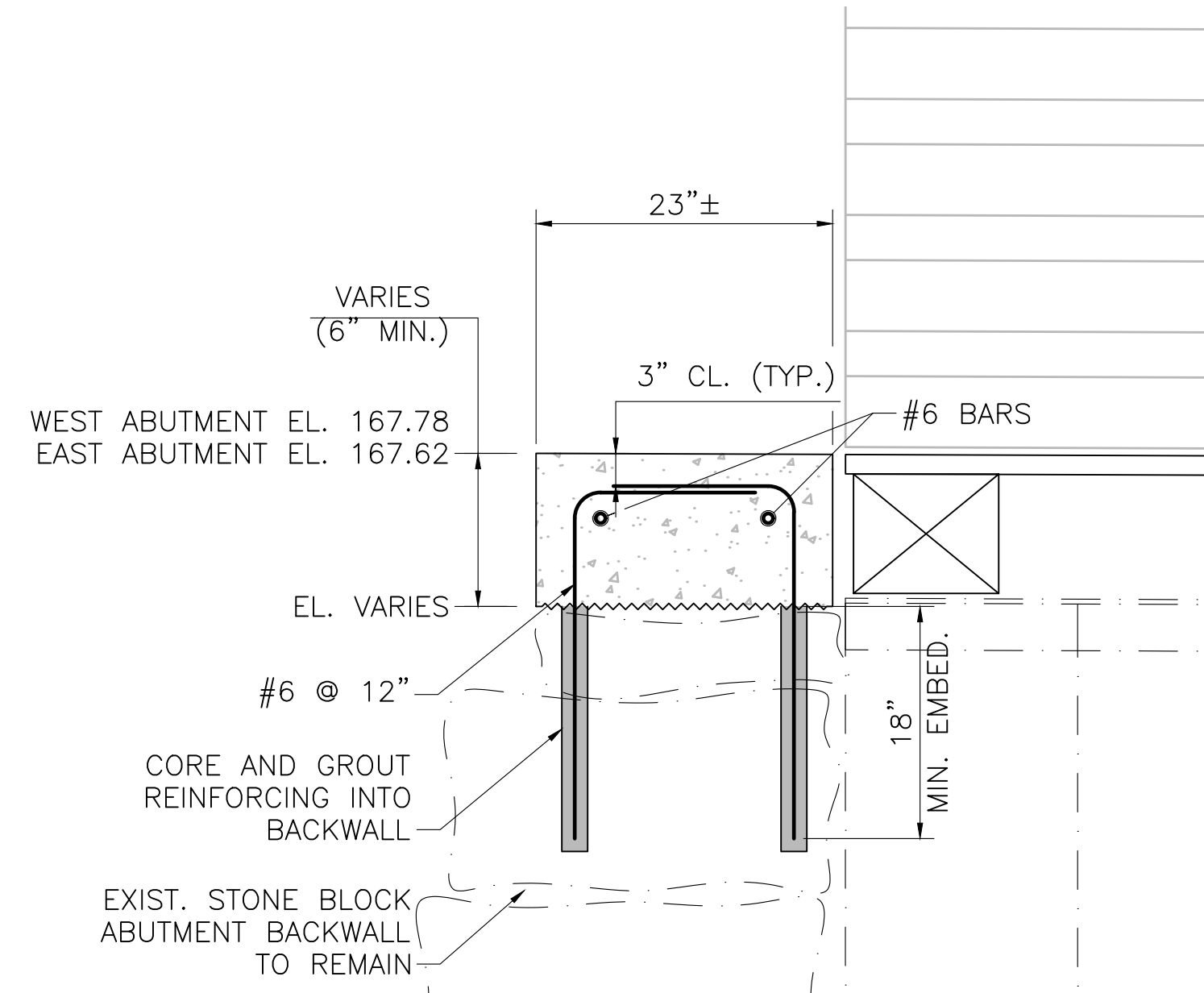
| N.O.  | DESCRIPTION       | BY           | DATE          | APPR.        |
|---|-------------------|--------------|---------------|--------------|
| <b>REVISION</b>                                   |                   |              |               |              |
| <b>EVERSOURCE</b>                                 |                   |              |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |              |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |              |               |              |
| BRIDGE H-25-017 (BRIDGE 128) - SHEETING PLAN      |                   |              |               |              |
| PLAN 159 OF 316                                   |                   |              |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGG |
| DRAWING NO.                                       | REV.              |              |               |              |



1 2 3 4 5 6 7 8 9 10 11

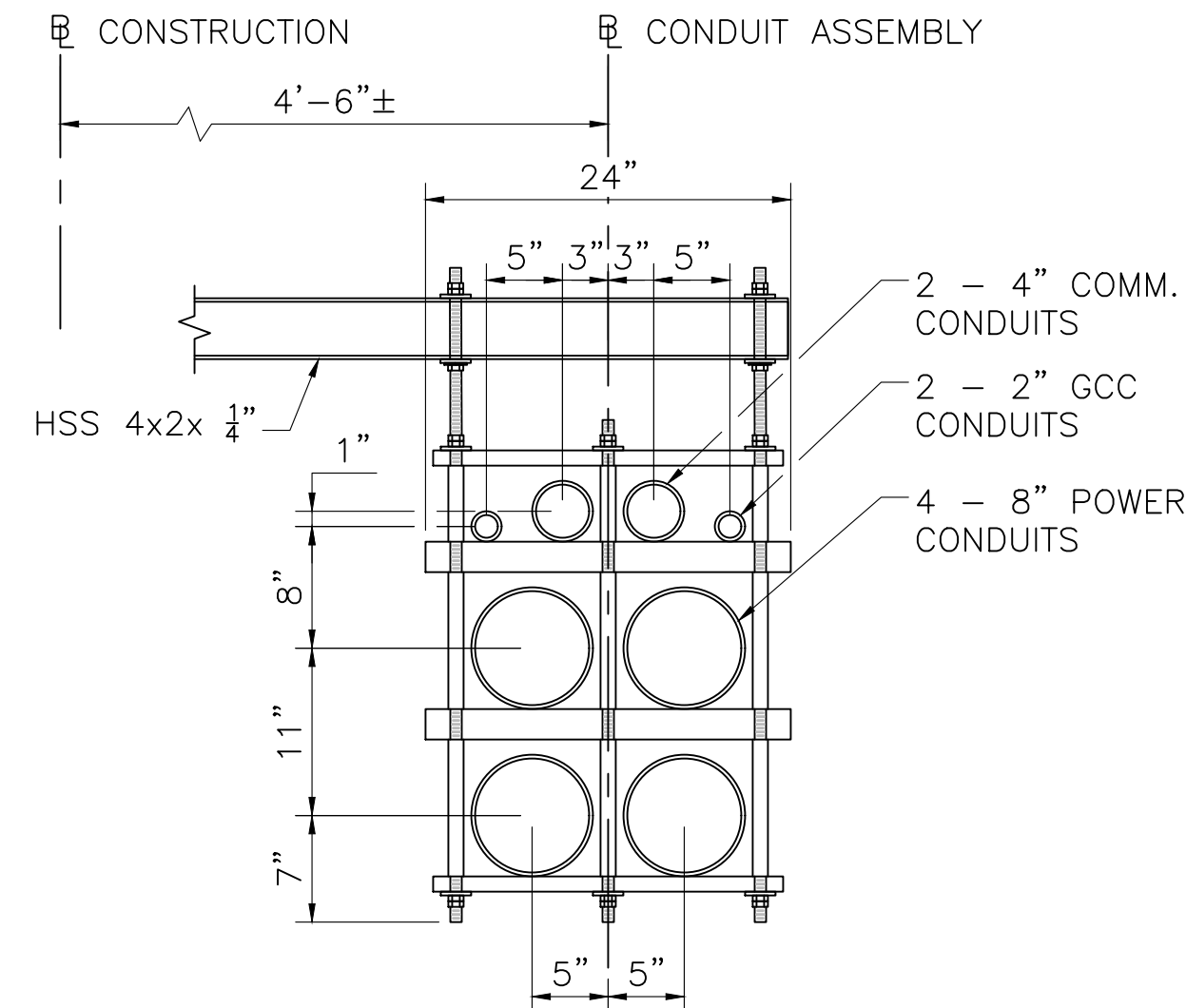
**NOTES:**

- EXIST. STEEL GIRDERS CAN SUPPORT TEMPORARY H20 LOADING DURING CONSTRUCTION. TIMBER DECKING IS DESIGNED FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. CONTRACTOR SHALL DESIGN TEMPORARY DECKING IF BRIDGE IS INTENDED TO BE USED FOR CONSTRUCTION VEHICLES.



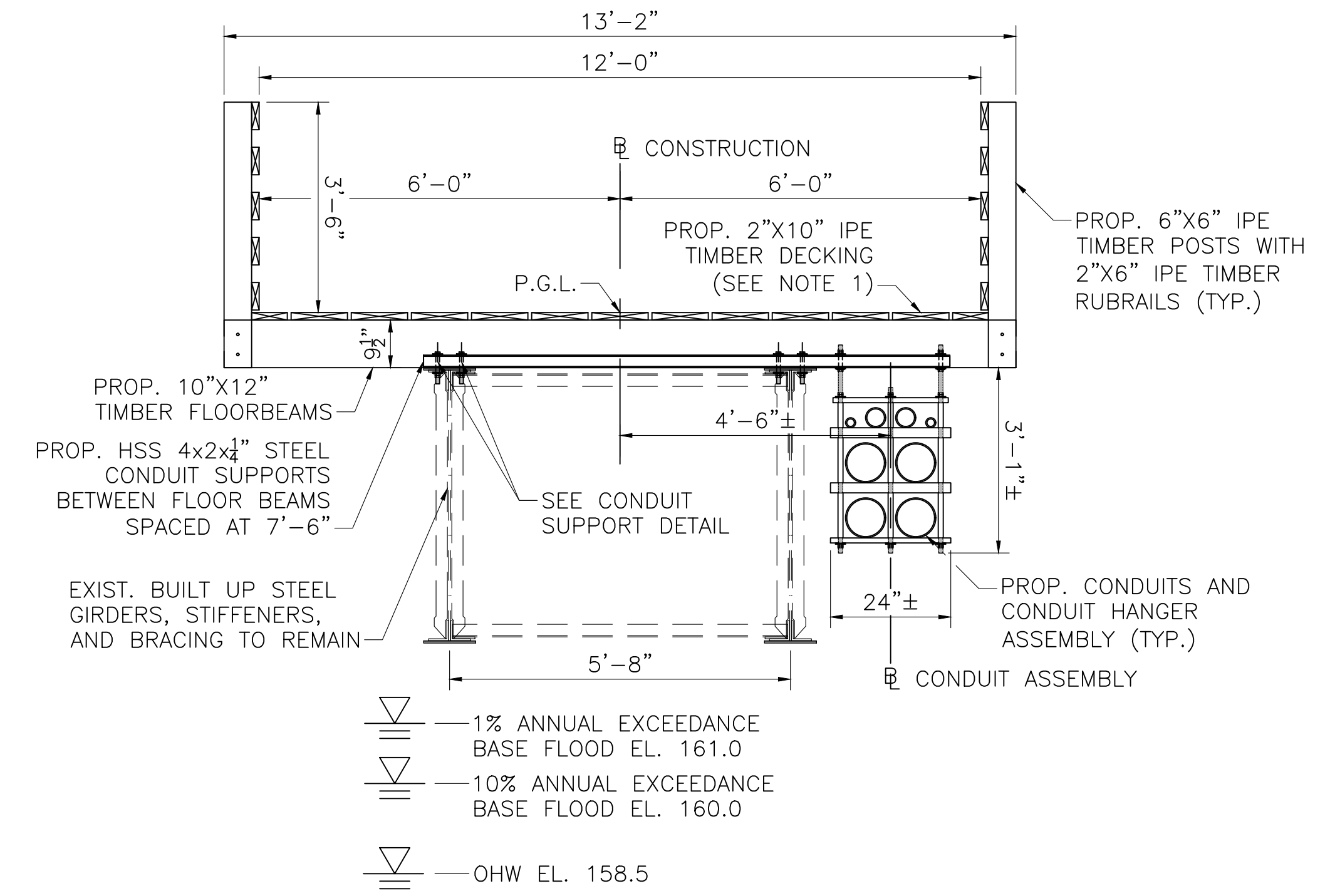
**BACKWALL CAP DETAIL**

SCALE: 1"=1'-0"



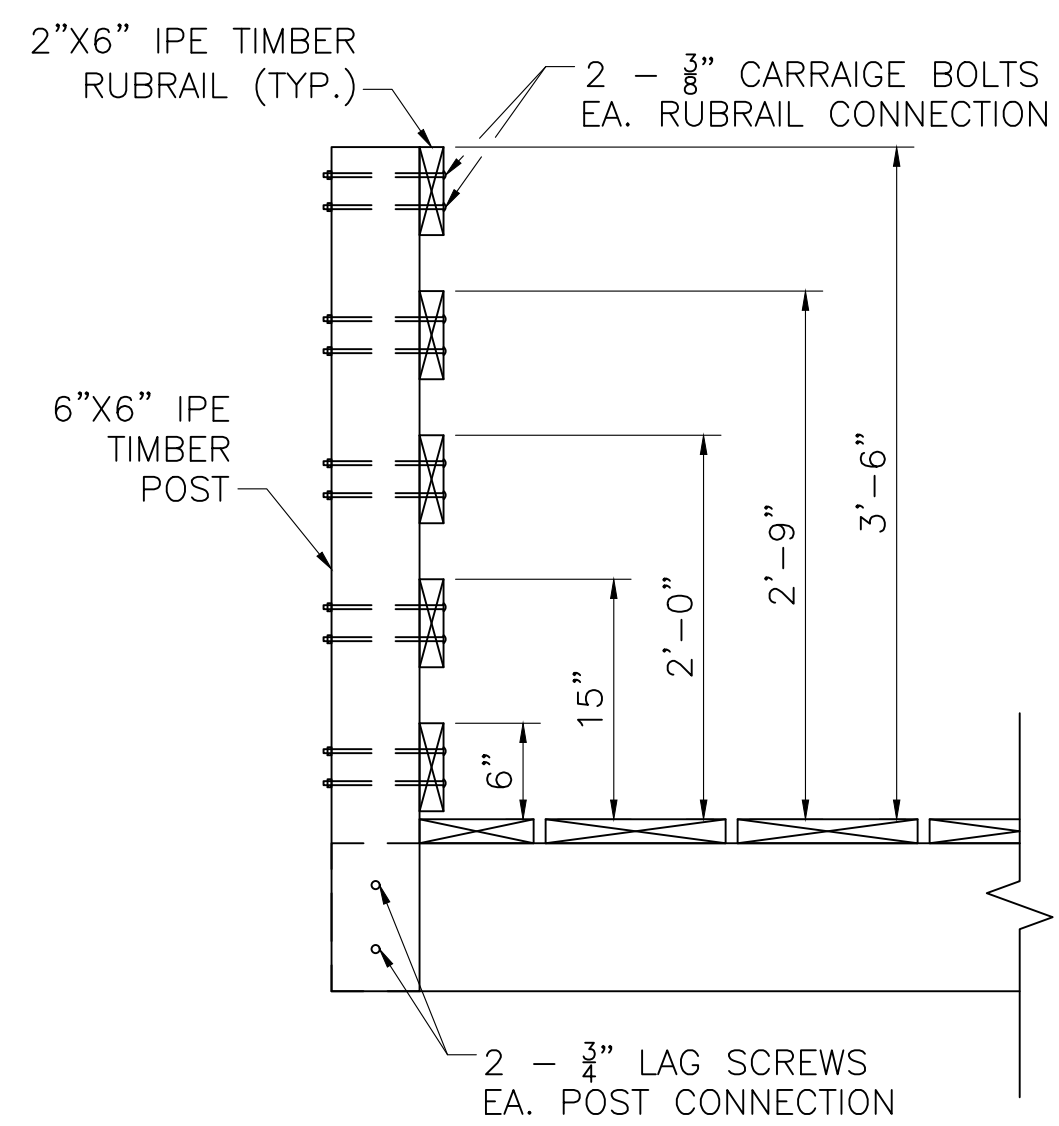
**CONDUIT ASSEMBLY DETAIL**

SCALE: 1"=1'-0"



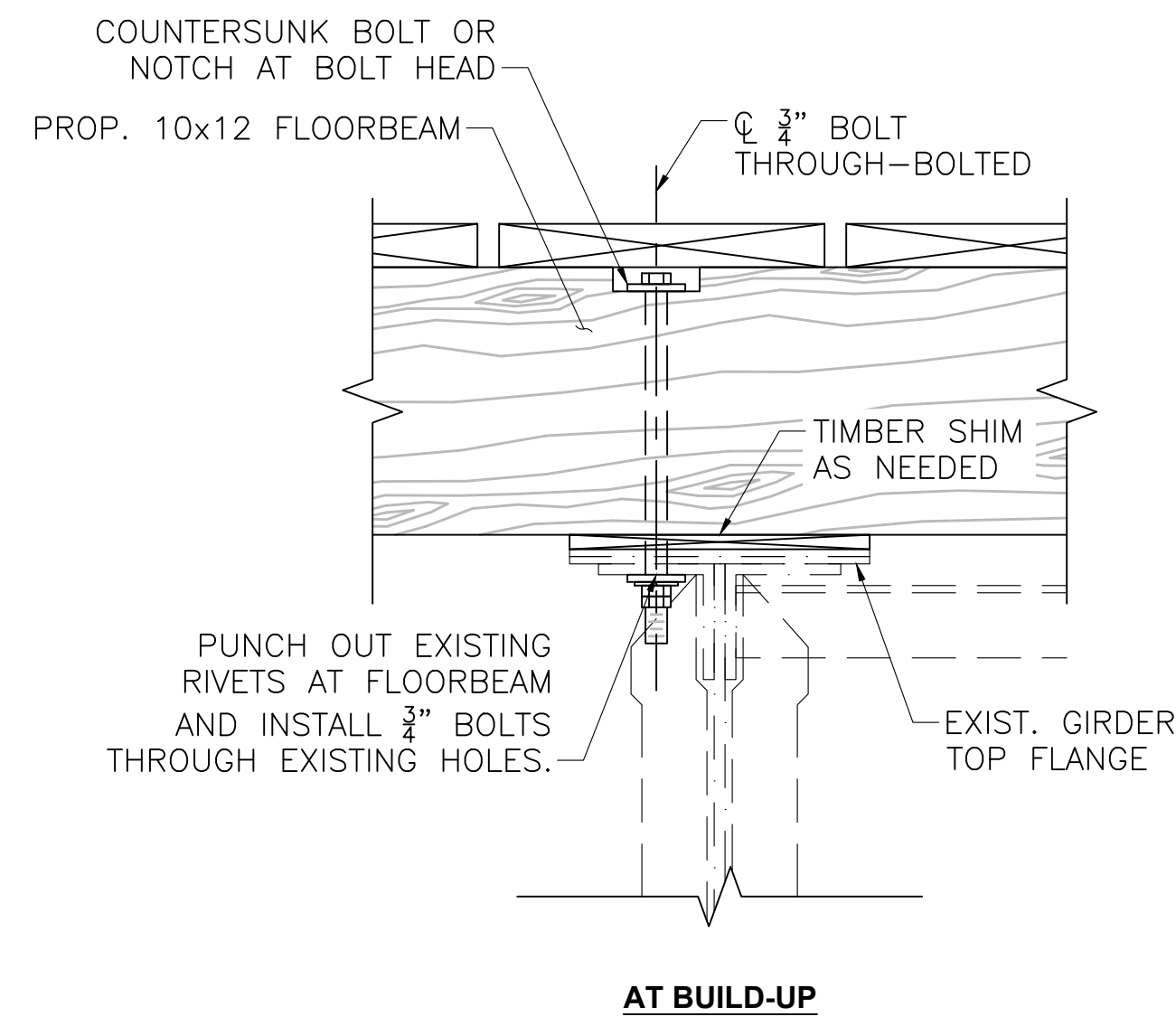
**BRIDGE TRANSVERSE SECTION**

SCALE: 1/2"=1'-0"



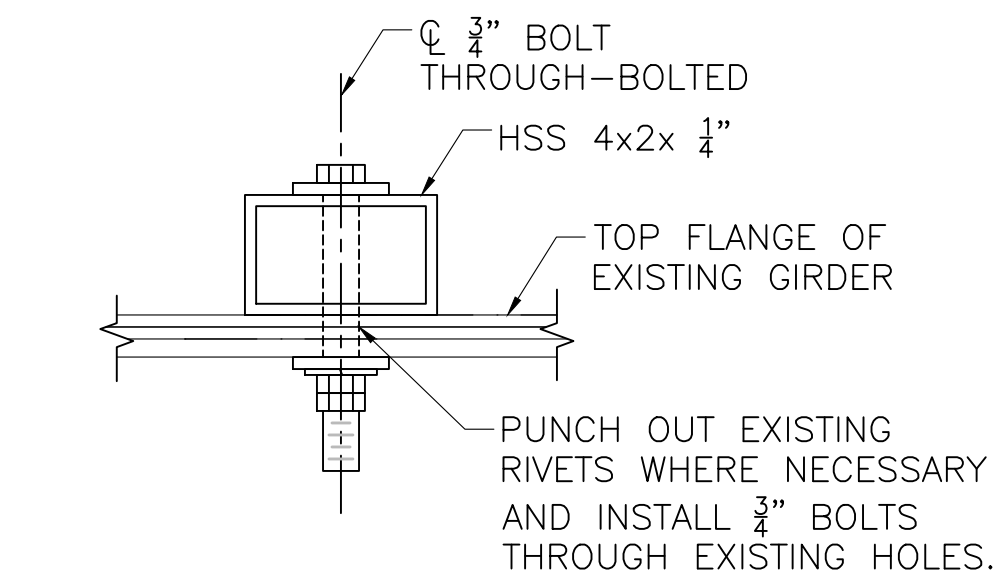
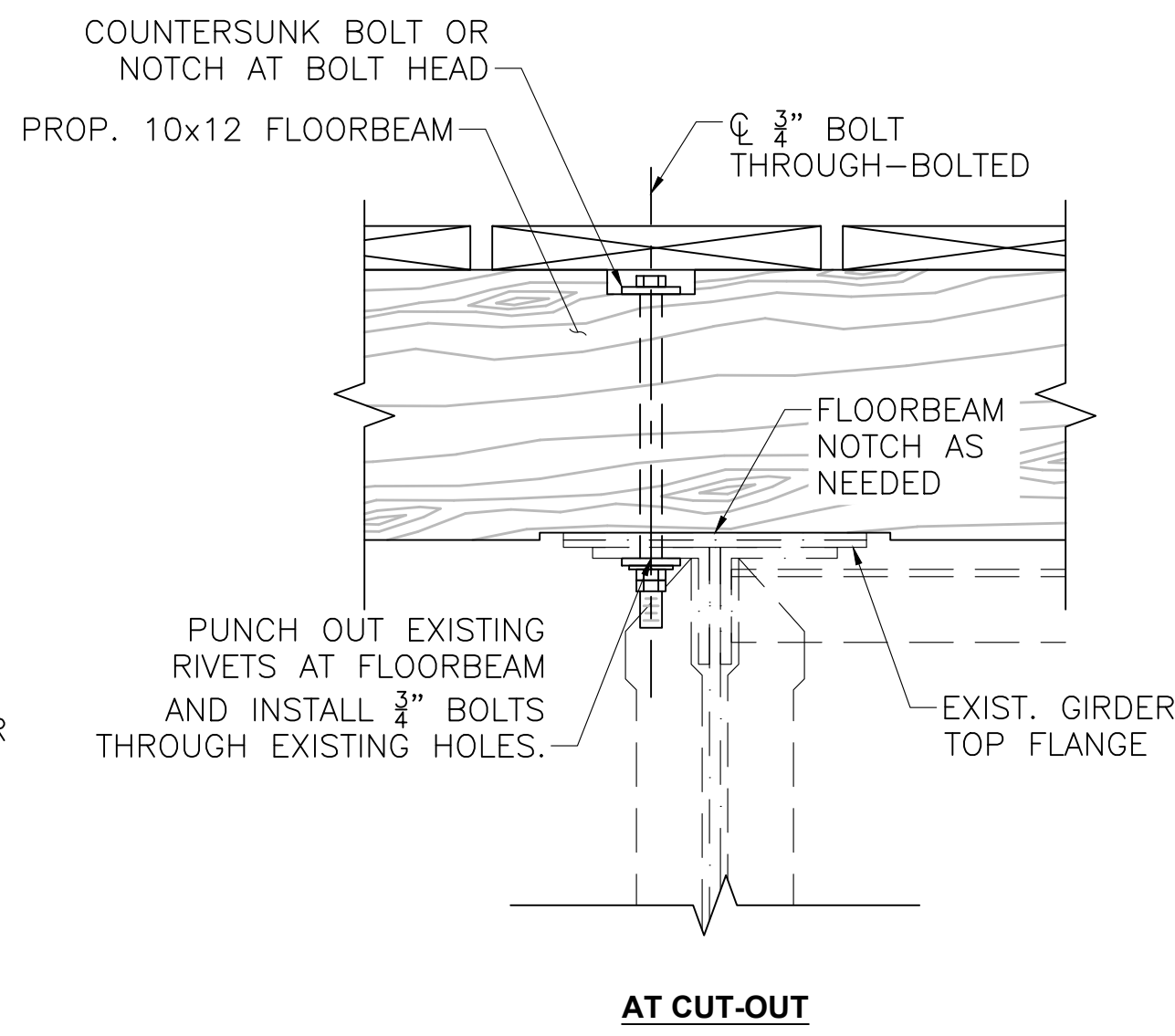
**RAILING CONNECTION DETAIL**

SCALE: 1"=1'-0"



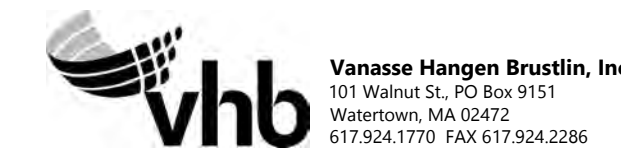
**FLOORBEAM CONNECTION DETAIL**

SCALE: 2"=1'-0"



**CONDUIT SUPPORT DETAIL**

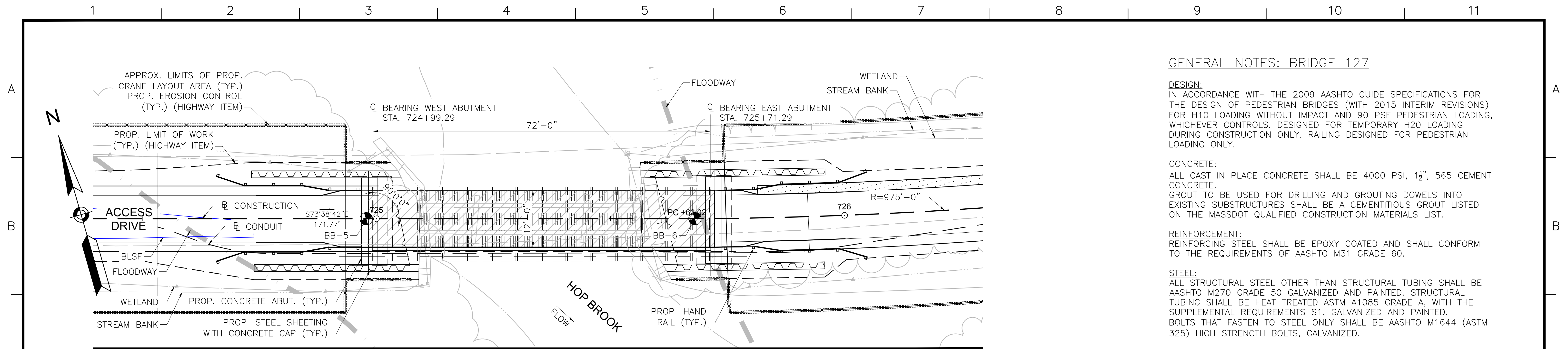
SCALE: 3"=1'-0"



Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.924.1770 FAX 617.924.2286

| N.O.  | DESCRIPTION | BY    | DATE   | APPR. |
|---|-------------|-------|--------|-------|
| REVISION  |             |       |        |       |
| <b>EVERSOURCE</b>                                 |             |       |        |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |             |       |        |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |             |       |        |       |
| BRIDGE S-31-017 (BRIDGE 128) - SECTION & DETAILS  |             |       |        |       |
| PLAN 1600F 316                                    |             |       |        |       |
| SCALE: unless noted                               | DATE        | DRAWN | CHK'D. | APPR. |
| VARIABLES   | JULY 2020   | AMS   | SBK    | KGK   |
| DRAWING NO.                                       | REV.        |       |        |       |
|   |             |       |        |       |

1 2 3 4 5 6 7 8 9 10 11



**BRIDGE KEY PLAN**  
SCALE: 1"=10'-0"

**GENERAL NOTES: BRIDGE 127**

**DESIGN:**  
IN ACCORDANCE WITH THE 2009 AASHTO GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (WITH 2015 INTERIM REVISIONS) FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. DESIGNED FOR TEMPORARY H20 LOADING DURING CONSTRUCTION ONLY. RAILING DESIGNED FOR PEDESTRIAN LOADING ONLY.

**CONCRETE:**  
ALL CAST IN PLACE CONCRETE SHALL BE 4000 PSI, 1 1/2", 565 CEMENT CONCRETE.  
GROUT TO BE USED FOR DRILLING AND GROUTING DOWELS INTO EXISTING SUBSTRUCTURES SHALL BE A CEMENTITIOUS GROUT LISTED ON THE MASSDOT QUALIFIED CONSTRUCTION MATERIALS LIST.

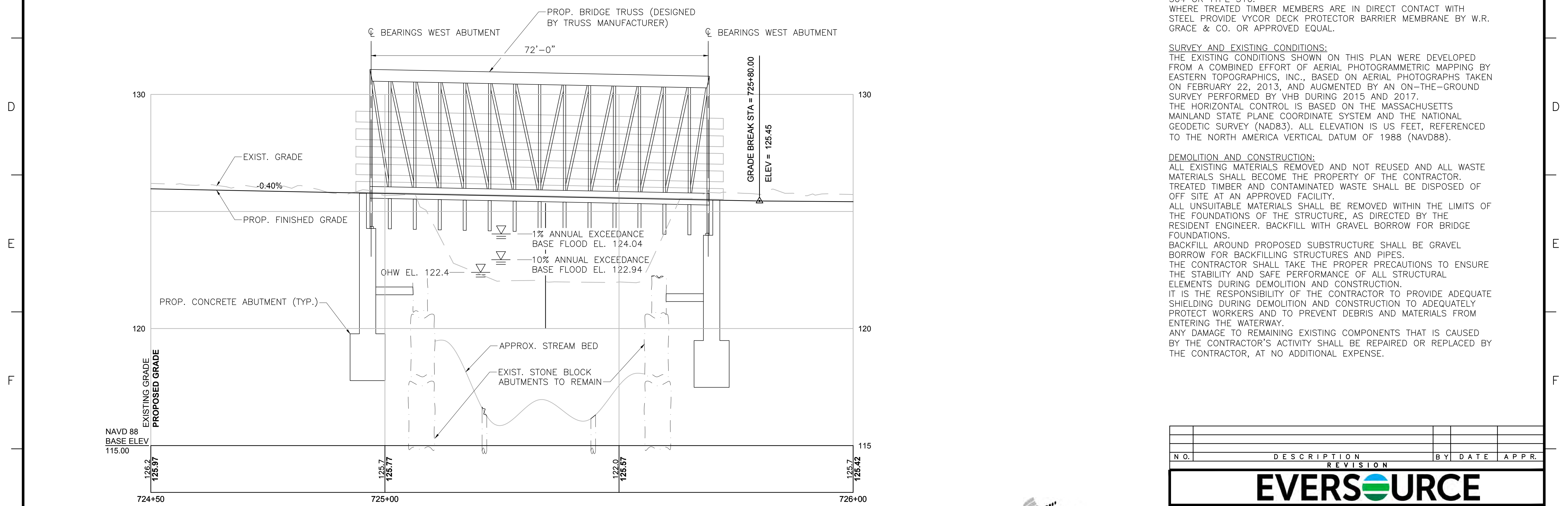
**REINFORCEMENT:**  
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

**STEEL:**  
ALL STRUCTURAL STEEL OTHER THAN STRUCTURAL TUBING SHALL BE AASHTO M270 GRADE 50 GALVANIZED AND PAINTED. STRUCTURAL TUBING SHALL BE HEAT TREATED ASTM A1085 GRADE A, WITH THE SUPPLEMENTAL REQUIREMENTS S1, GALVANIZED AND PAINTED. BOLTS THAT FASTEN TO STEEL ONLY SHALL BE AASHTO M1644 (ASTM 325) HIGH STRENGTH BOLTS, GALVANIZED.

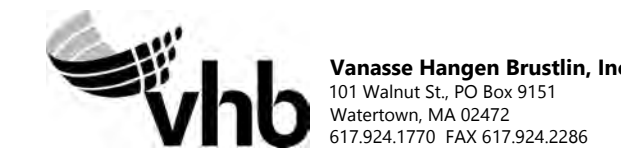
**TIMBER:**  
DECK PLANKING AND RAILINGS: IPE, F<sub>b</sub> min = 22,000 psi.  
ALL NAILS, SCREWS, BOLTS, WASHERS, CONNECTORS, FASTENERS AND HARDWARE FOR WOOD CONNECTIONS SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316.  
WHERE TREATED TIMBER MEMBERS ARE IN DIRECT CONTACT WITH STEEL PROVIDE VYCOR DECK PROTECTOR BARRIER MEMBRANE BY W.R. GRACE & CO. OR APPROVED EQUAL.

**SURVEY AND EXISTING CONDITIONS:**  
THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.  
THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).

**DEMOLITION AND CONSTRUCTION:**  
ALL EXISTING MATERIALS REMOVED AND NOT REUSED AND ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TREATED TIMBER AND CONTAMINATED WASTE SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY.  
ALL UNSUITABLE MATERIALS SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS.  
BACKFILL AROUND PROPOSED SUBSTRUCTURE SHALL BE GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.  
THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING DEMOLITION AND CONSTRUCTION.  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHIELDING DURING DEMOLITION AND CONSTRUCTION TO ADEQUATELY PROTECT WORKERS AND TO PREVENT DEBRIS AND MATERIALS FROM ENTERING THE WATERWAY.  
ANY DAMAGE TO REMAINING EXISTING COMPONENTS THAT IS CAUSED BY THE CONTRACTOR'S ACTIVITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE.



**PROFILE - ACCESS DRIVE**  
HORIZONTAL SCALE: 1"=10'-0"  
VERTICAL SCALE: 1"=2'-0"



| N.O.  | DESCRIPTION       | BY           | DATE          | APPR.        |
|---|-------------------|--------------|---------------|--------------|
| REVISION  |                   |              |               |              |
| <b>EVERSOURCE</b>                                 |                   |              |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |              |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |              |               |              |
| BRIDGE S-31-016 (BRIDGE 127) - KEY PLAN & PROFILE |                   |              |               |              |
| PLAN161 OF 316                                    |                   |              |               |              |
| SCALE: unless noted<br>H: 1"=10' V: 1"=2'         | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGG |
| DRAWING NO.                                       | REV.              |              |               |              |

A

B

C

D

E

F

G

BORING BB-5  
 STATION: 724+98  
 OFFSET: 0.0' LT  
 N: 2956151.0  
 E: 679475.0  
 GROUND ELEVATION: 125.0'  
 (SEE NOTE 10)

BORING BB-5 (CONTINUED)

BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE KEY PLAN THUS:
2. BORINGS ARE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
3. WATER LEVELS SHOWN ON THE BORING LOGS ARE ASSUMED BASED ON BORINGS PERFORMED FOR THE EXISTING BRIDGE, AS NOTED IN THE GEOTECHNICAL REPORT DATED DECEMBER 2018.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. ALL BORINGS WERE MADE IN OCTOBER OF 2018.
6. BORINGS WERE MADE BY GEOLOGIC EARTH EXPLORATION, INC., 7 SHERWOOD DR., NORFOLK, MA 02056.
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
8. BORING LOCATIONS AND ELEVATIONS ARE APPROXIMATE ONLY.

BOTTOM OF FOOTING  
 EL. 117.76

| LGCI  |  | BORING LOG   |  | B-BB-5   |  |
|---|--|--|--|--|--|
| 100 Chalmers Road, Suite 2<br>Billerica, MA 01802<br>Telephone: (978) 330-5912<br>Fac: (978) 330-5056 |  | PROJECT NAME: Proposed Hop Brook Bridge                      |  | PAGE 1 OF 2  |  |
| CLIENT: Vanasse Hangen Brustlin, Inc.   |  | PROJECT LOCATION: Sudbury, Massachusetts                     |  |  |  |
| DATE STARTED: 10/08/18  |  | DATE COMPLETED: 10/10/18                                     |  | DRILLING SUBCONTRACTOR: Geosearch, Inc.                            |  |
| BORING LOCATION: Western side of Hop Brook Bridge   |  | DRILLING FOREMAN: Kenny Bjaland                              |  | DRILLING METHOD: Drive and wash with 4-inch casing, then 3" casing |  |
| COORDINATES: NA   |  | DRILL RIG TYPE/MODEL: CME 55 LC ATV                          |  | HAMMER TYPE: Automatic   |  |
| SURFACE EL.: 125 ft. (see note 1)   |  | TOTAL DEPTH: 54 ft.  |  | HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.                         |  |
| WEATHER: 70s / Partly Cloudy  |  | GROUNDWATER LEVELS:  |  | SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.                       |  |
|   |  | DURING DRILLING: 4.0 ft. / El. 121.0 ft. measured on 10/9/18 |  | CORE BARREL SIZE: NA   |  |
|   |  | AT END OF DRILLING: 3.5 ft. / El. 121.5 ft.                  |  | LOGGED BY: TS / KD CHECKED BY: NB                                  |  |
|   |  | OTHER: 3.2 ft. / El. 121.8 ft. measured on 10/10/18          |  |  |  |

| Depth (ft.) | Sample Number | Blow Counts (N Value) | Pen./Rec. (in.) | Strata          | Material Description   |
|-------------|---------------|-----------------------|-----------------|-----------------|--|
| 0           |               |                       |                 | Forest Mat Fill | S1 - Top 2" Forest material  |
| 2           | S1            | 4-3-5-4 (8)           | 24/24           |                 | Bot. 2": Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, moist   |
| 4           | S2            | 3-1-1-1 (2)           | 24/13           |                 | S2 - Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, wet  |
| 5           | S3            | 3-1-3-3 (4)           | 24/14           |                 | S3 - Similar to S2, ~35% fines   |
| 6           | S4            | 3-2-4-4 (6)           | 24/11           |                 | S4 - Similar to S2, 35-40% fines   |
| 8           | S5            | 4-2-5-5 (7)           | 24/15           | Swamp Deposits  | S5 - Similar to S2, ~25% fines   |
| 10          | S6            | 3-3-6-7 (9)           | 24/15           |                 | S6 - Top 12": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, wet<br>Bot. 3": Well Graded SAND with Silt (SW-SM), fine to medium, trace coarse, 5-10% fines, light brown to gray, wet |
| 13          | S7            | 3-1-1-3 (2)           | 24/11           |                 | S7 - Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine angular gravel, trace roots, orange to brown, wet   |
| 15          | S8            | 0-3-6-16 (9)          | 24/13           |                 | S8 - Silty GRAVEL with Sand (GM), coarse, subangular, 15-20% fines, 20-25% fine to medium sand, brown to orange, wet   |
| 17          | S9            | 16-16-15-17 (31)      | 24/16           |                 | S9 - Silty SAND (SM), fine, ~20% fines, light brown, wet   |
| 20          | S10           | 12-8-10-14 (18)       | 24/18           | Sand            | S10 - Similar to S9  |
| 25          |               | 68-33-33-38           |                 |                 | S11 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~20% fine to coarse subangular gravel, light brown to gray, wet   |

GENERAL NOTES:  
 1. The ground surface elevation was interpolated to the nearest foot based on a drawing titled: "Proposed Conditions Plans for Notice of Intent Submittal, Sudbury-Hudson Transmission Reliability Project, Sudbury, Massachusetts," prepared by VHB and dated February 5, 2018.

| LGCI  |  | BORING LOG   |  | B-BB-5   |  |
|---|--|--|--|--|--|
| 100 Chalmers Road, Suite 2<br>Billerica, MA 01802<br>Telephone: (978) 330-5912<br>Fac: (978) 330-5056 |  | PROJECT NAME: Proposed Hop Brook Bridge                      |  | PAGE 2 OF 2  |  |
| CLIENT: Vanasse Hangen Brustlin, Inc.   |  | PROJECT LOCATION: Sudbury, Massachusetts                     |  |  |  |
| DATE STARTED: 10/08/18  |  | DATE COMPLETED: 10/10/18                                     |  | DRILLING SUBCONTRACTOR: Geosearch, Inc.                            |  |
| BORING LOCATION: Western side of Hop Brook Bridge   |  | DRILLING FOREMAN: Kenny Bjaland                              |  | DRILLING METHOD: Drive and wash with 4-inch casing, then 3" casing |  |
| COORDINATES: NA   |  | DRILL RIG TYPE/MODEL: CME 55 LC ATV                          |  | HAMMER TYPE: Automatic   |  |
| SURFACE EL.: 125 ft. (see note 1)   |  | TOTAL DEPTH: 54 ft.  |  | HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.                         |  |
| WEATHER: 70s / Partly Cloudy  |  | GROUNDWATER LEVELS:  |  | SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.                       |  |
|   |  | DURING DRILLING: 4.0 ft. / El. 121.0 ft. measured on 10/9/18 |  | CORE BARREL SIZE: NA   |  |
|   |  | AT END OF DRILLING: 3.5 ft. / El. 121.5 ft.                  |  | LOGGED BY: TS / KD CHECKED BY: NB                                  |  |
|   |  | OTHER: 3.2 ft. / El. 121.8 ft. measured on 10/10/18          |  |  |  |

| Depth (ft.) | Sample Number | Blow Counts (N Value) | Pen./Rec. (in.) | Strata | Material Description  |
|-------------|---------------|-----------------------|-----------------|--------|---|
| 24          | S11           | (86)                  | 24/27           |        |   |
| 26          |               |                       |                 |        |   |
| 29          | S12           | 60-120/4"             | 10/5            |        | REMARK 1: Switched to 3-inch casing at 29 feet.<br>S12 - Silty GRAVEL with Sand (GM), fine to coarse, subangular to rounded, ~15% fines, ~15% fine to coarse sand, light brown to gray, wet   |
| 30          |               |                       |                 |        |   |
| 34          | S13           | 23-45-33-22 (78)      | 24/10           |        | S13 - Similar to S12  |
| 35          |               |                       |                 |        |   |
| 36          |               |                       |                 |        |   |
| 39          | S14           | 20-60-50-38 (110)     | 24/23           | Sand   | S14 - Top 17": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, trace fine subangular gravel, light brown, wet<br>Bot. 6": Silty GRAVEL with Sand (GM), fine to coarse, 15-20% fines, 15-20% fine to coarse sand, light brown, wet |
| 40          |               |                       |                 |        |   |
| 41          |               |                       |                 |        |   |
| 44          | S15           | 8-20-100/3"           | 15/7            |        | S15 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, 15-20% fine subrounded gravel, light brown to gray, wet  |
| 45          |               |                       |                 |        |   |
| 45.3        |               |                       |                 |        | REMARK 2: Open hole drive and wash technique used at 47 feet.   |
| 49          | S16           | 120/0"                | 0/0             |        | REMARK 3: Attempted to obtain a core sample at 49 feet. Core barrel advanced ~5 feet in ~10 seconds, indicating that the material was not rock.<br>S16 - No recovery  |
| 50          |               |                       |                 |        |   |
| 54          | S17           | 120/0"                | 0/0             |        | S17 - No recovery<br>Bottom of borehole at 54.0 feet. Backfilled borehole with drill cuttings.  |
| 55          |               |                       |                 |        |   |
| 60          |               |                       |                 |        |   |



| N.O.   | DESCRIPTION | BY    | DATE  | APPR. |
|--|-------------|-------|-------|-------|
| REVISION   |             |       |       |       |
| <b>EVERSOURCE</b>                                  |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT    |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS |             |       |       |       |
| BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS         |             |       |       |       |
| PLAN 62 OF 316                                     |             |       |       |       |
| SCALE: unless noted                                | DATE        | DRAWN | CHK'D | APPR. |
| N/A  | JULY 2020   | AMS   | SBK   | KGK   |
| DRAWING NO.  | REV.        |       |       |       |
|  |             |       |       |       |

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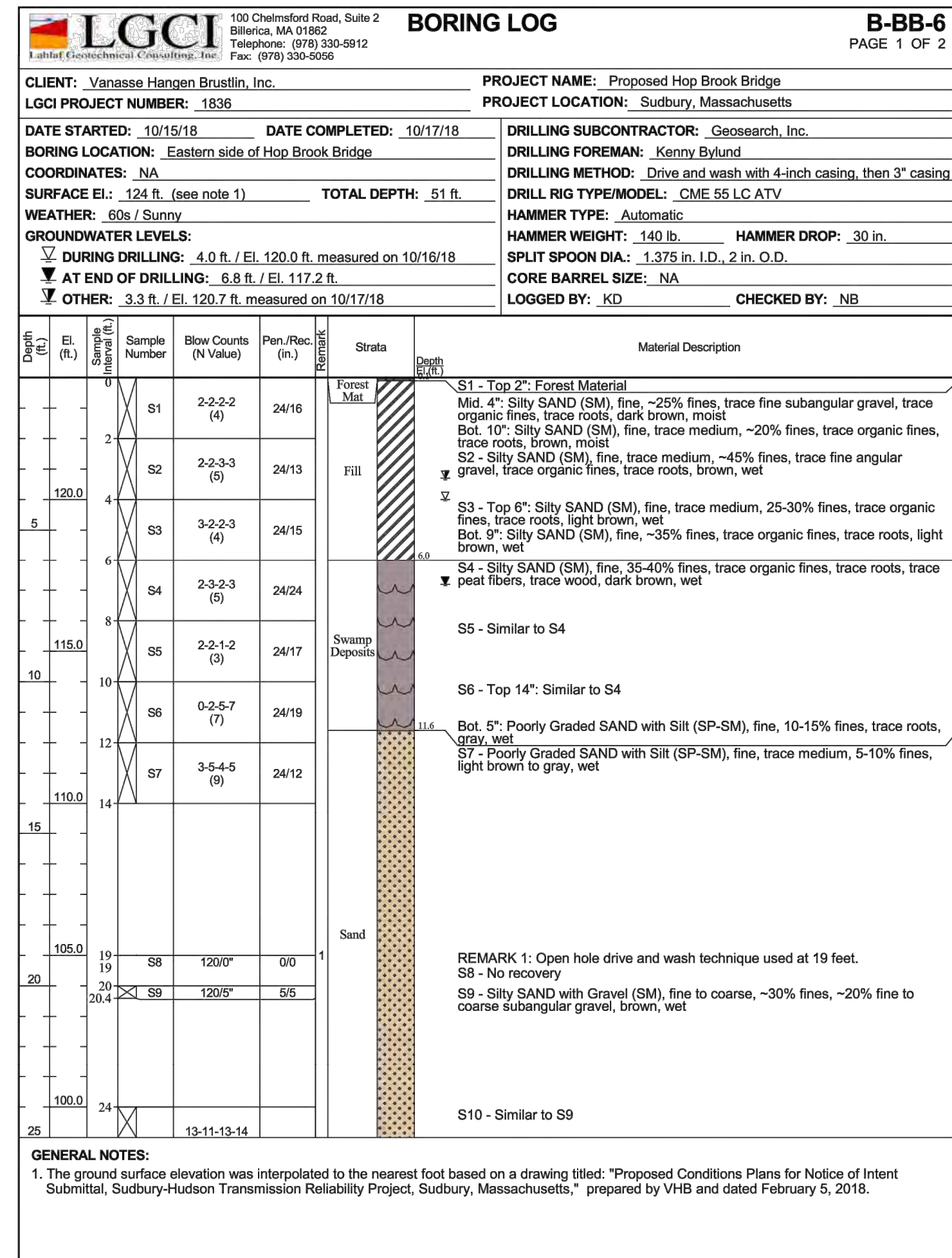
E

F

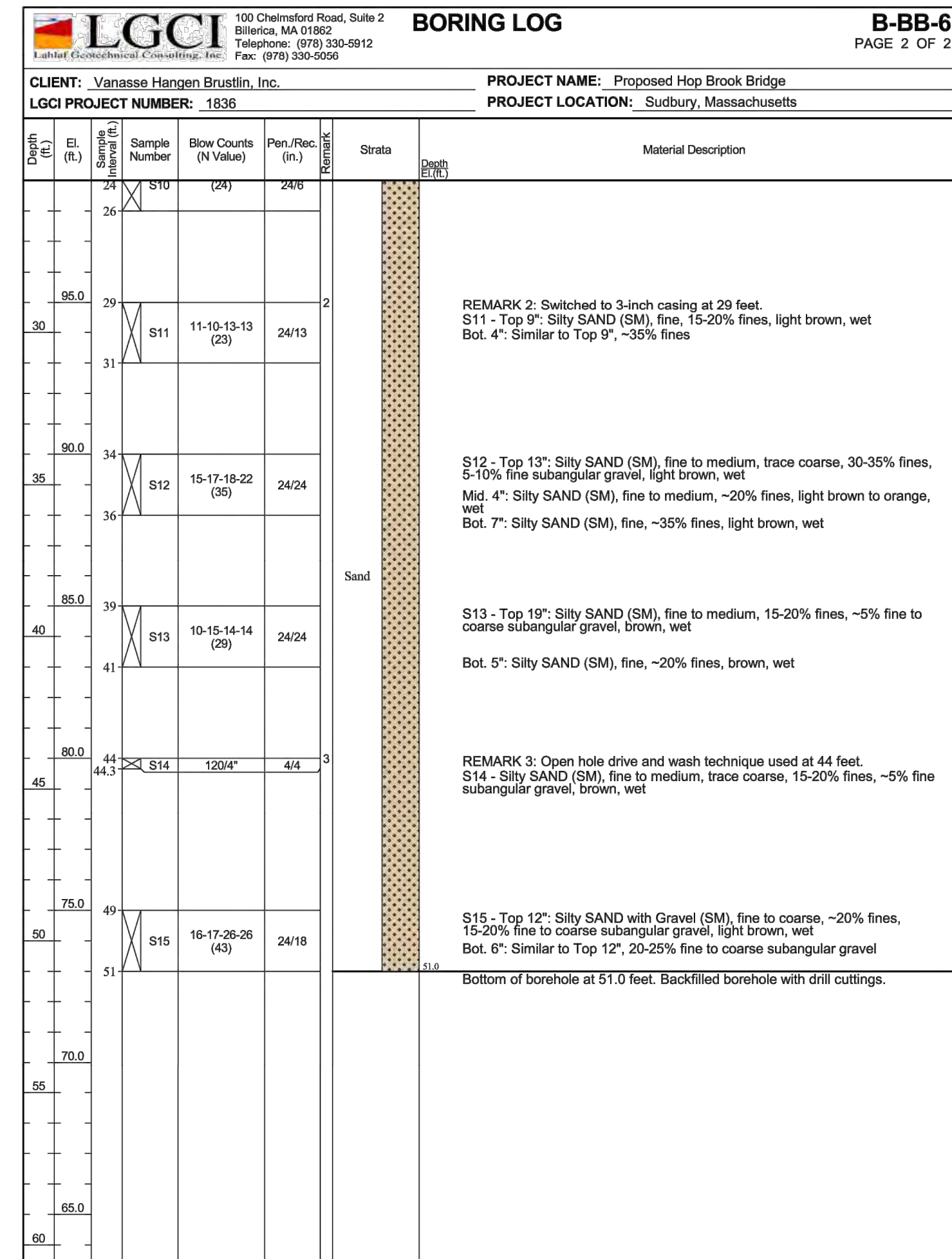
G

BORING BB-6  
 STATION: 725+68.0  
 OFFSET: 0.0' LT  
 N: 2956131.0  
 E: 679542.0  
 GROUND ELEVATION: 124.0'  
 (SEE NOTE 10, SHEET 162 OF 316)

BORING BB-6 (CONTINUED)

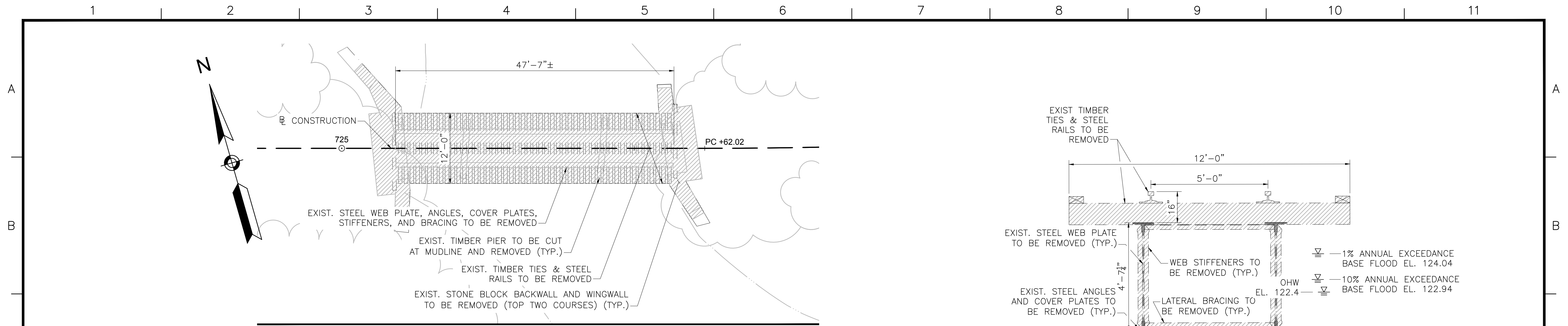


BOTTOM OF FOOTING  
 EL. 117.47

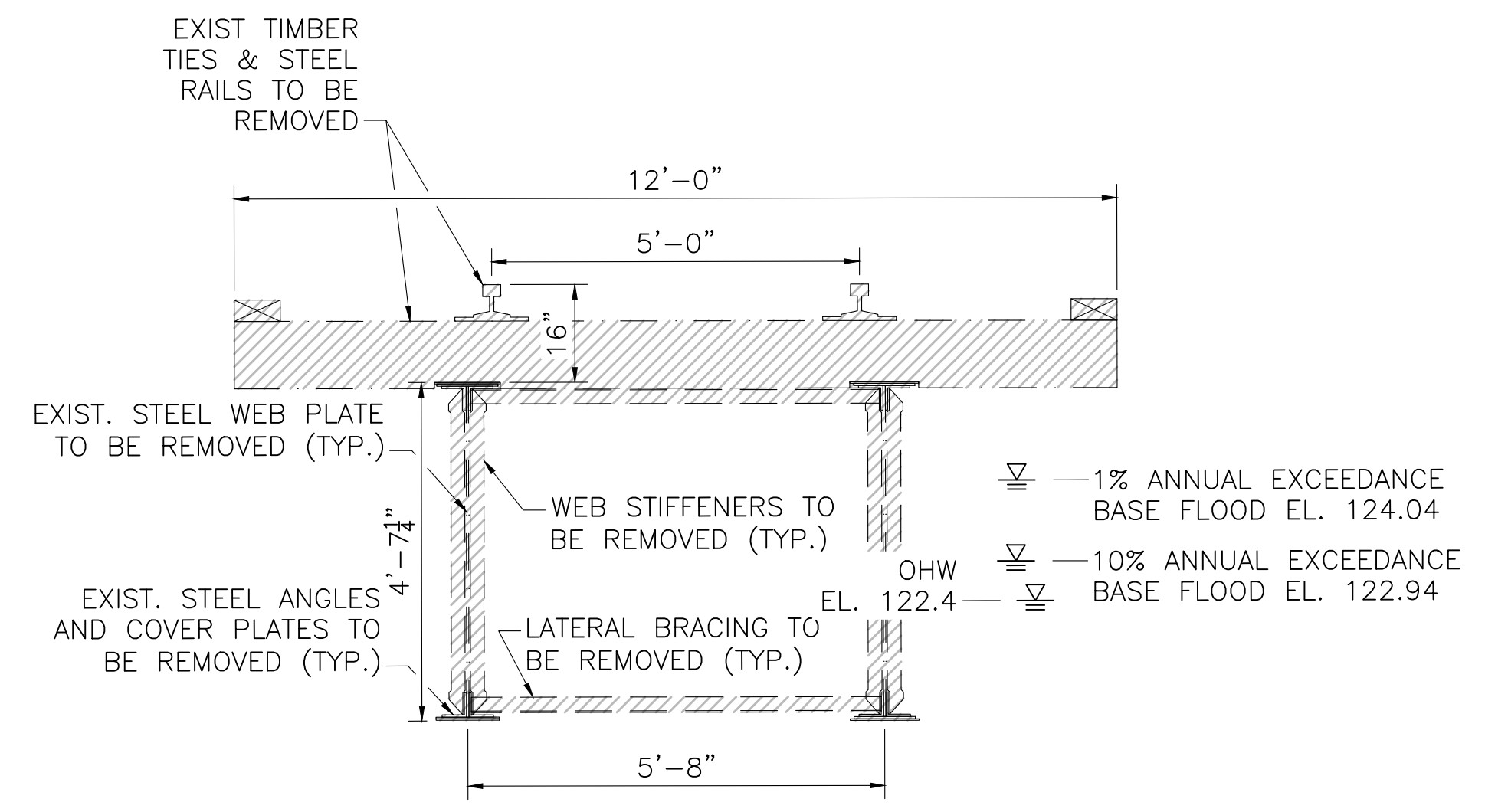


| N O.   | DESCRIPTION | BY    | DATE  | APPR. |
|--|-------------|-------|-------|-------|
| REVISION   |             |       |       |       |
| <b>EVERSOURCE</b>                                  |             |       |       |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT    |             |       |       |       |
| HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS |             |       |       |       |
| BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS         |             |       |       |       |
| PLAN# 63 OF 316                                    |             |       |       |       |
| SCALE: unless noted                                | DATE        | DRAWN | CHK'D | APPR. |
| N/A  | JULY 2020   | AMS   | SBK   | KGK   |
| DRAWING NO.  | REV.        |       |       |       |
|  |             |       |       |       |



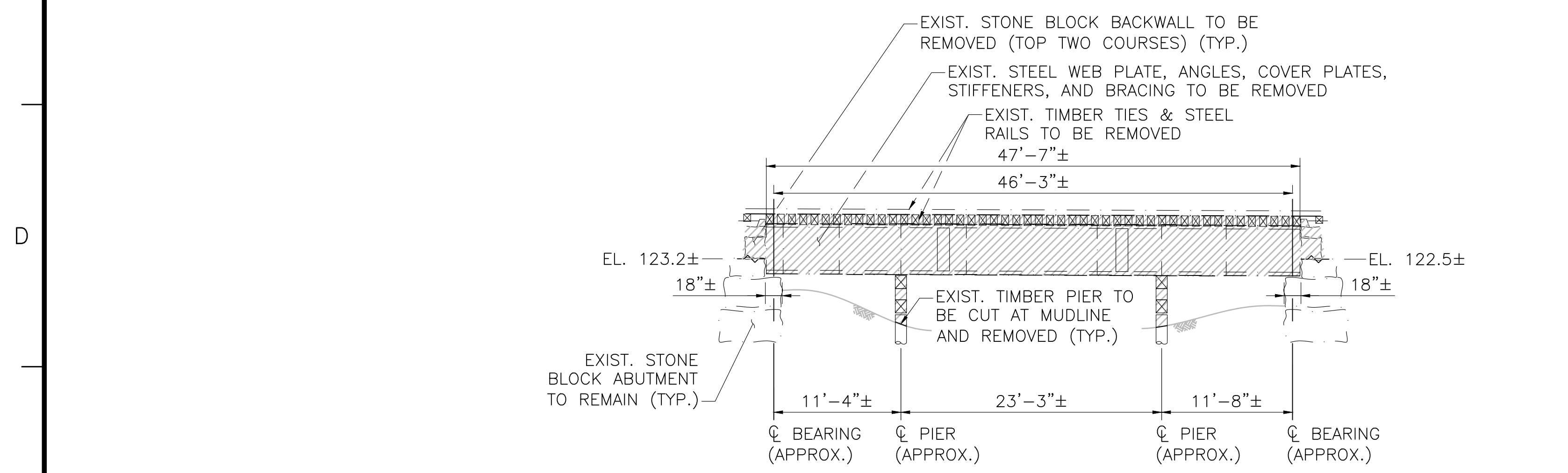


**BRIDGE PLAN**  
SCALE: 1/8"=1'-0"

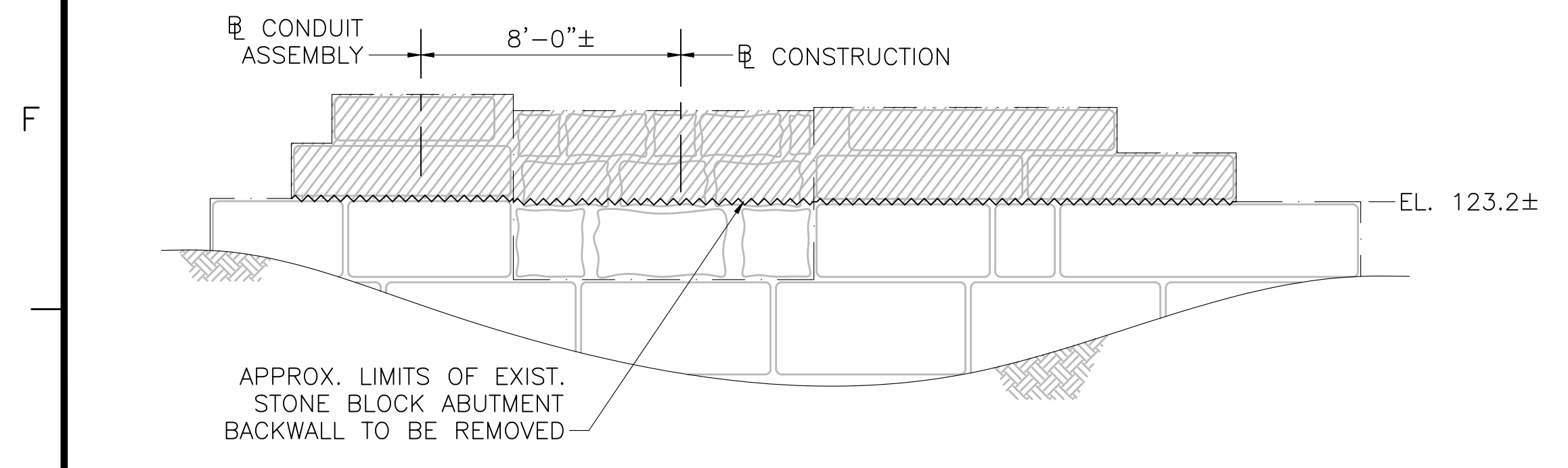


**BRIDGE TRANSVERSE SECTION**  
SCALE: 1/2"=1'-0"

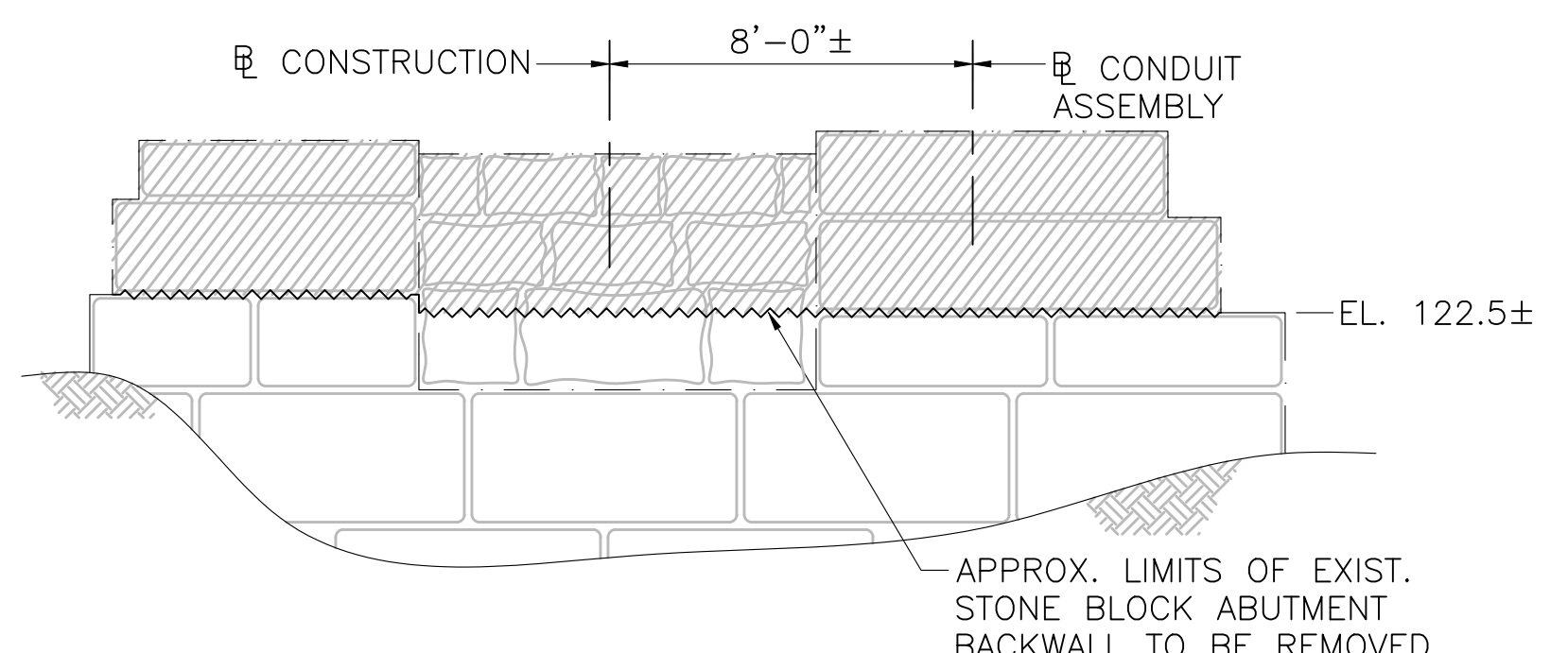
NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.



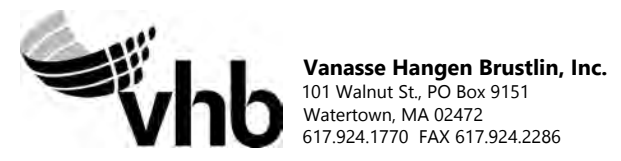
**BRIDGE ELEVATION**  
SCALE: 1/8"=1'-0"



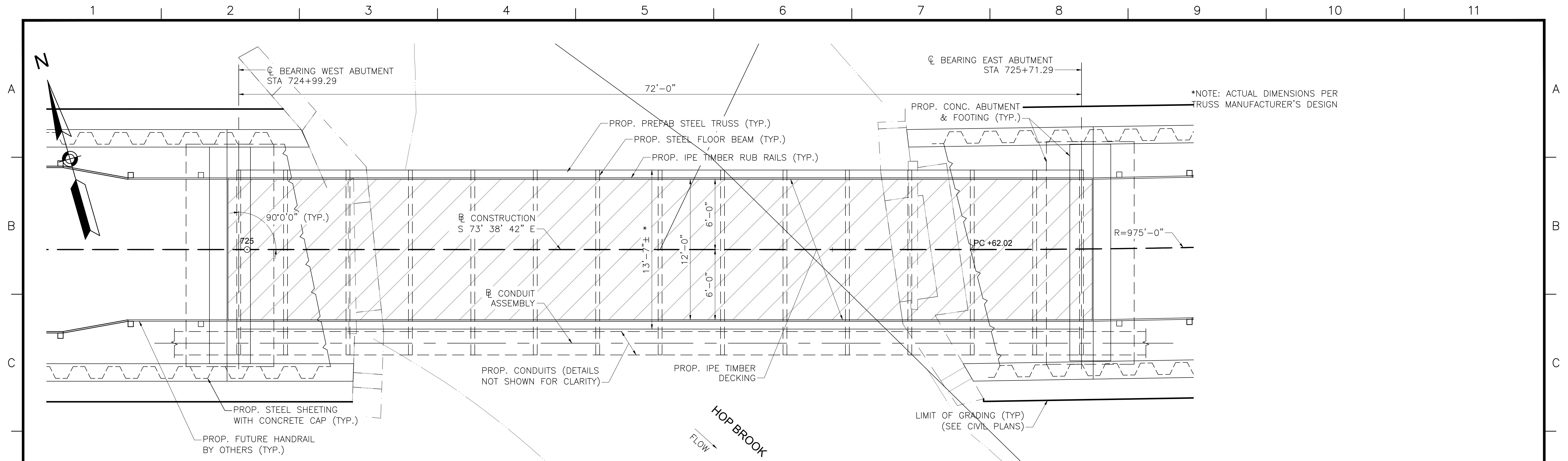
**WEST ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"



**EAST ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"

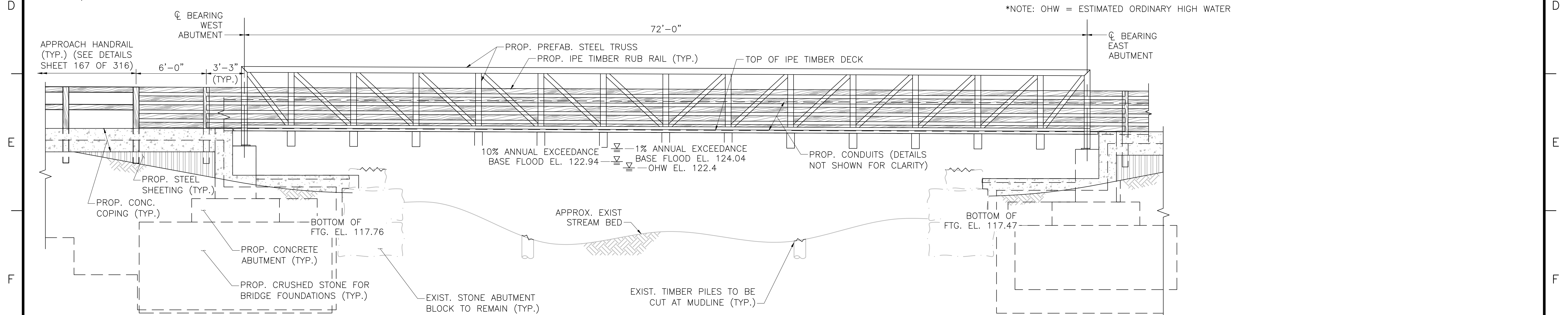


| N.O.  | DESCRIPTION     | BY         | DATE       | APPR.      |
|---|-----------------|------------|------------|------------|
| REVISION  |                 |            |            |            |
| <b>EVERSOURCE</b>                                 |                 |            |            |            |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                 |            |            |            |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                 |            |            |            |
| BRIDGE S-31-016 (BRIDGE 127) - DEMOLITION PLAN    |                 |            |            |            |
| PLAN 64 OF 316                                    |                 |            |            |            |
| SCALE: unless noted VARIES                        | DATE: JULY 2020 | DRAWN: AMS | CHK'D: SBK | APPR.: KGK |
| DRAWING NO.                                       | REV.            |            |            |            |



**BRIDGE 127 (HOP BROOK) PLAN**

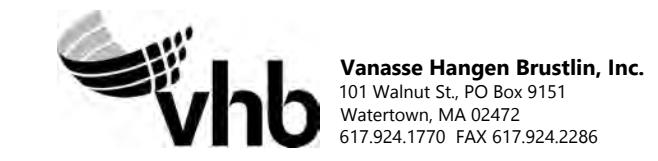
SCALE: 1/4"=1'-0"



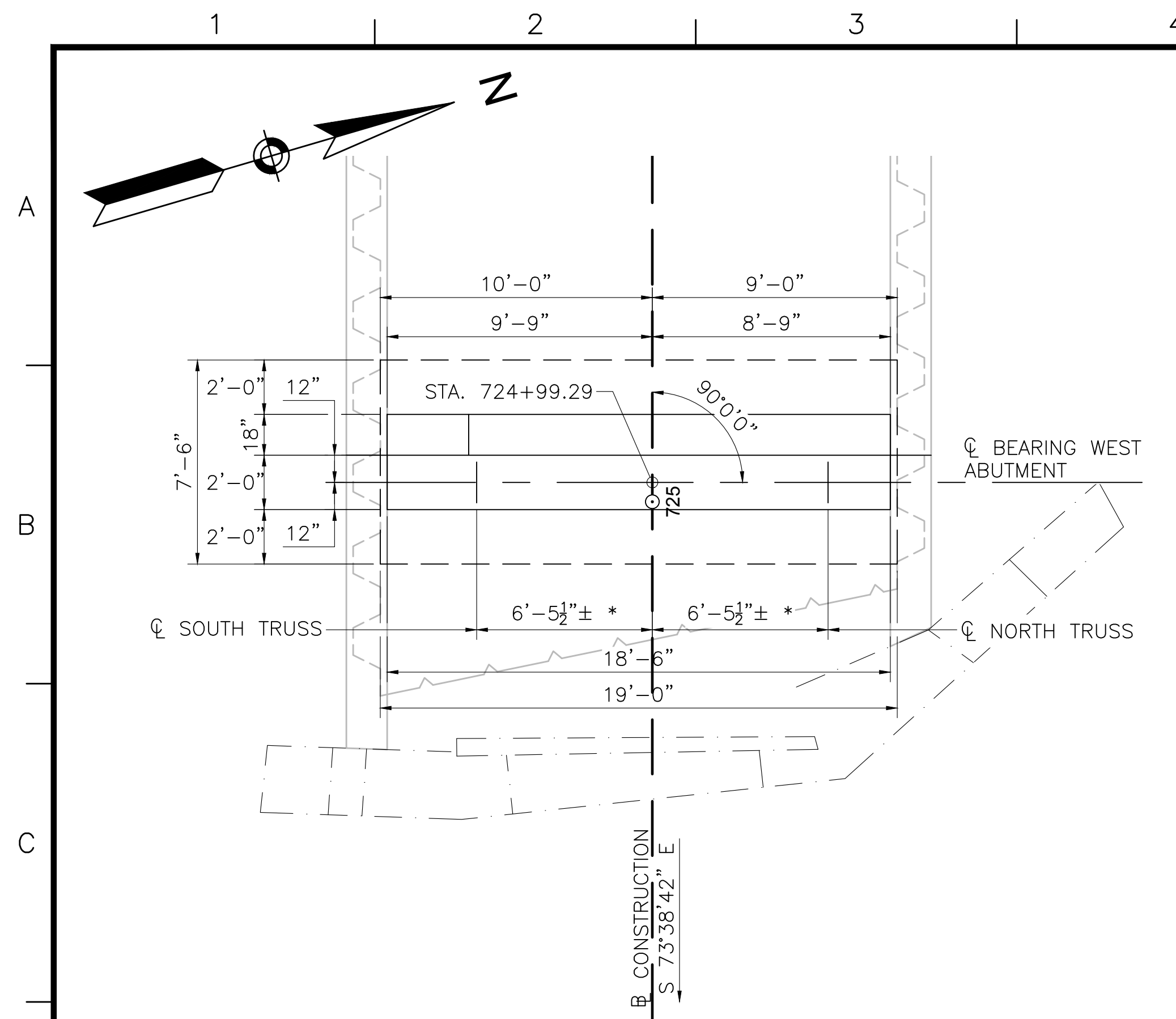
**BRIDGE 127 (HOP BROOK) ELEVATION**

SCALE: 1/4"=1'-0"

\*NOTE: OHW = ESTIMATED ORDINARY HIGH WATER

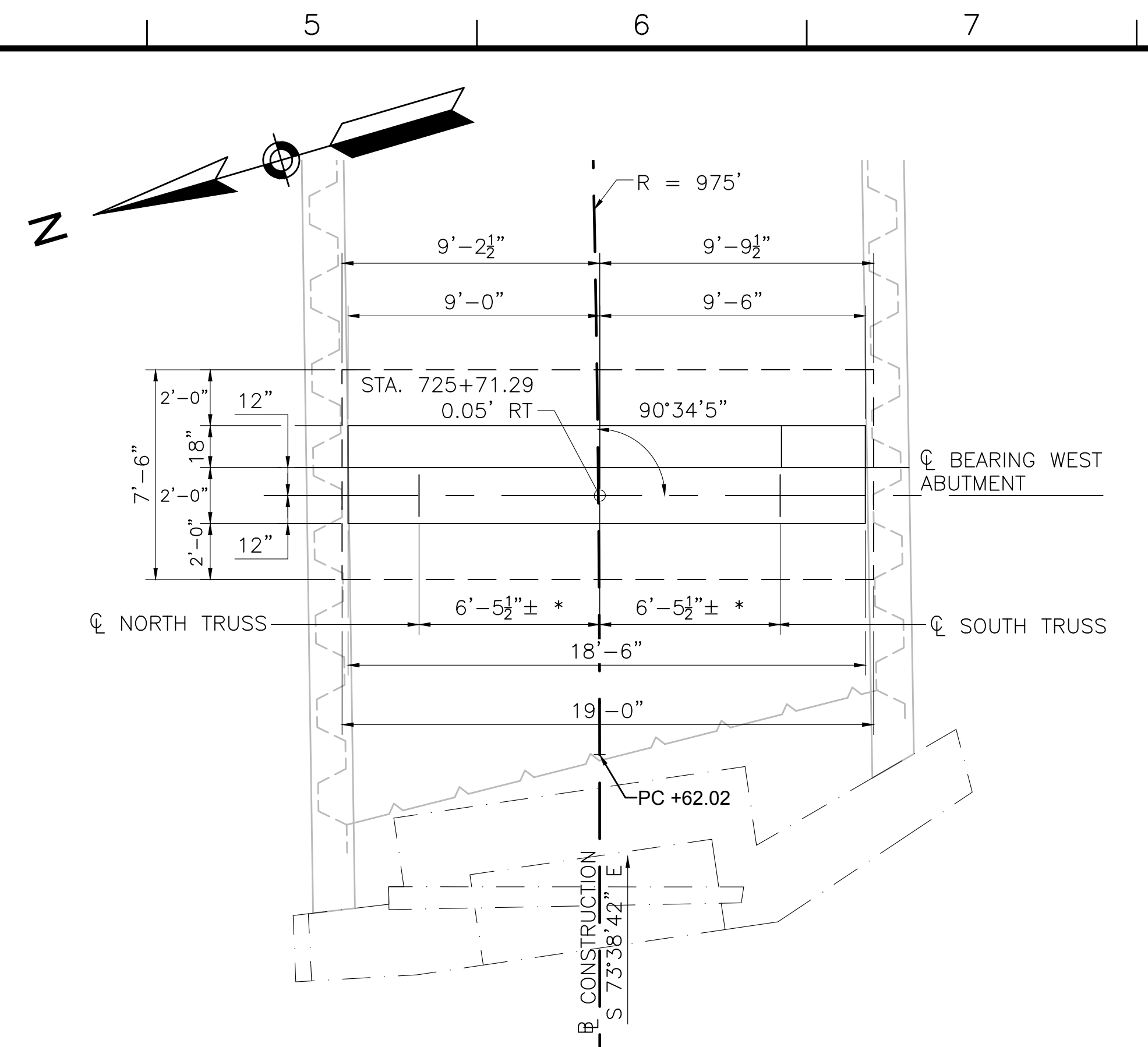


| N.O.   | DESCRIPTION       | BY           | DATE          | APPR.        |
|--|-------------------|--------------|---------------|--------------|
| REVISION   |                   |              |               |              |
| <b>EVERSOURCE</b>                                    |                   |              |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT      |                   |              |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS    |                   |              |               |              |
| BRIDGE S-31-016 (BRIDGE 127, HOP BROOK) - PLAN & EL. |                   |              |               |              |
| PLAN 65 OF 316                                       |                   |              |               |              |
| SCALE: unless noted<br>1"=4'                         | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGK |
| DRAWING NO.  | REV.              |              |               |              |



**WEST ABUTMENT PLAN**

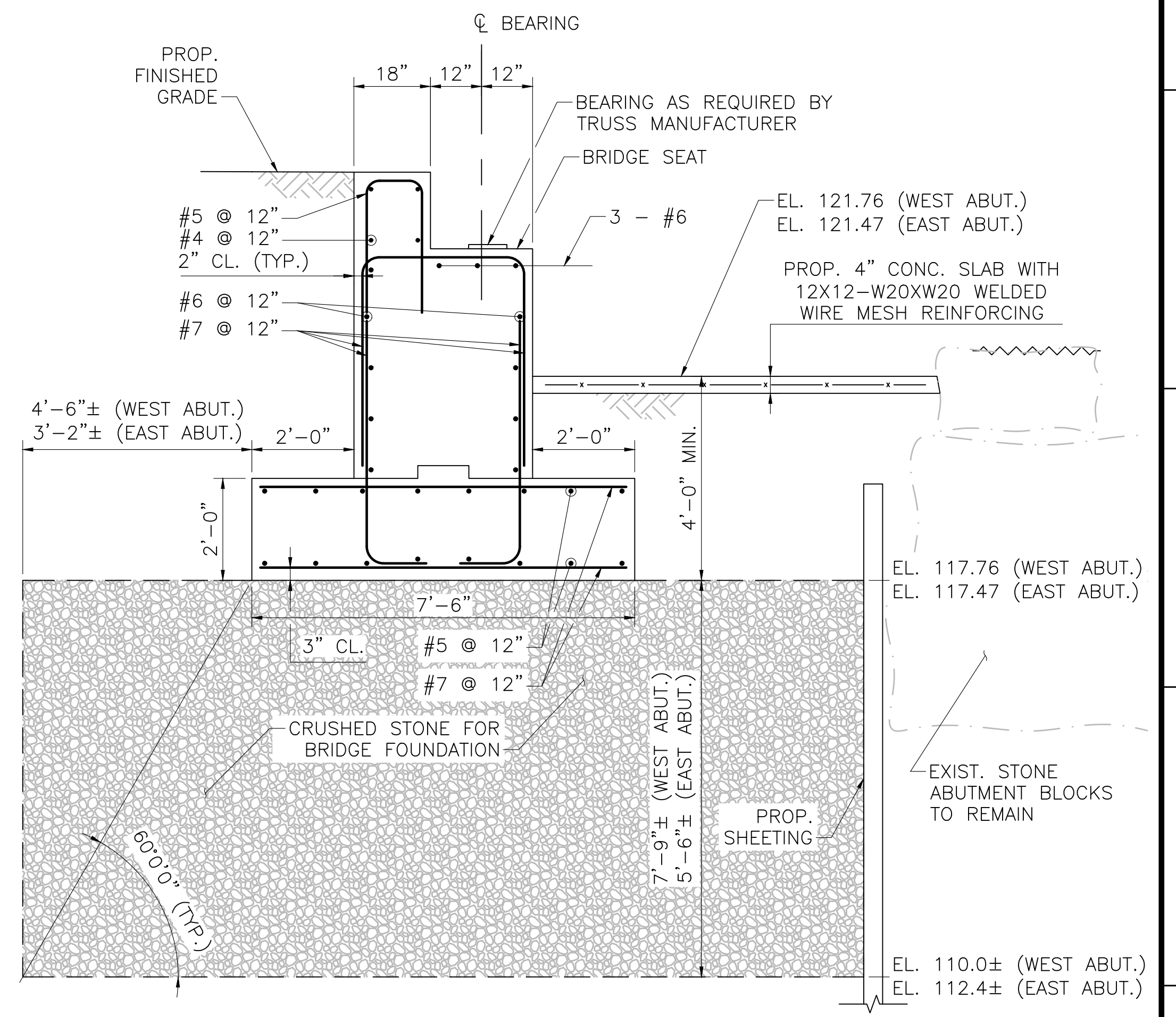
SCALE: 1/4"=1'-0"



**EAST ABUTMENT PLAN**

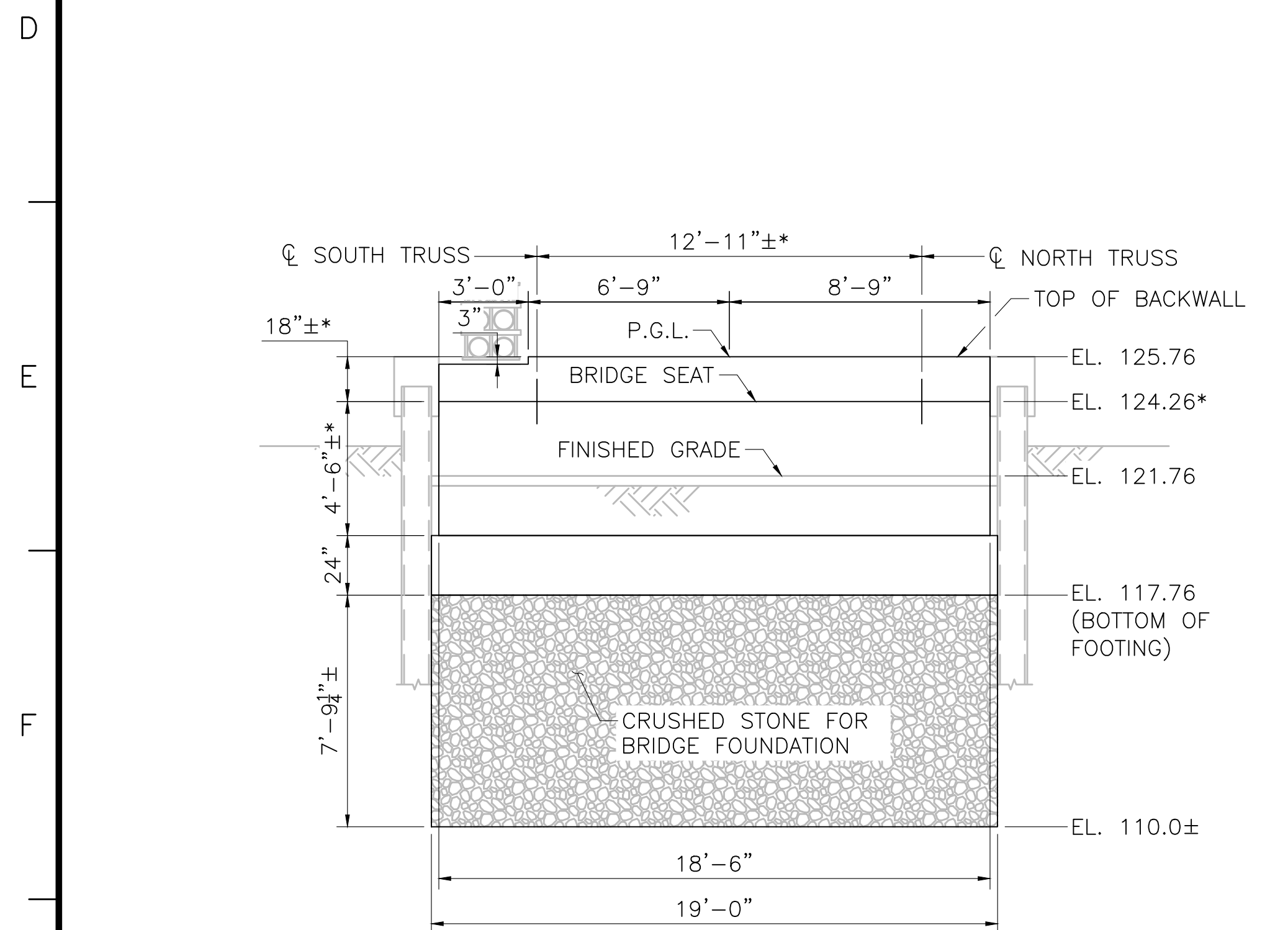
SCALE: 1/4"=1'-0"

\*NOTE: ACTUAL DIMENSIONS PER TRUSS MANUFACTURER'S DESIGN



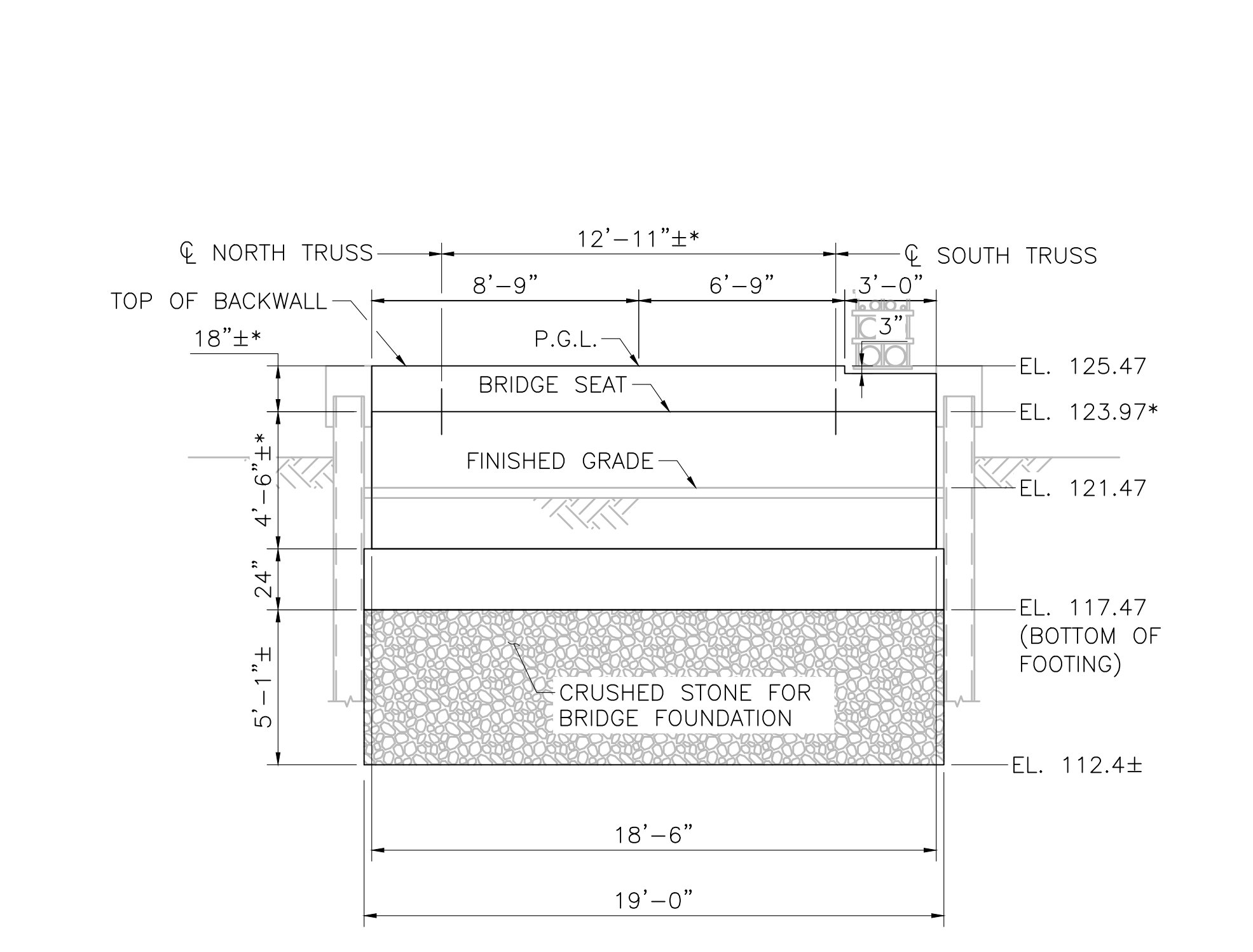
**TYPICAL ABUTMENT SECTION**

SCALE: 3/4"=1'-0"



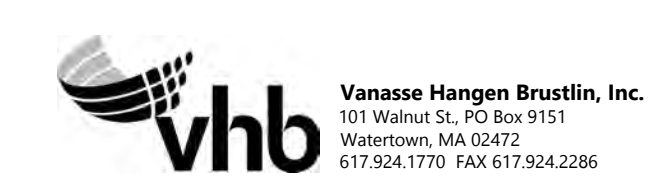
**WEST ABUTMENT ELEVATION**

SCALE: 1/4"=1'-0"



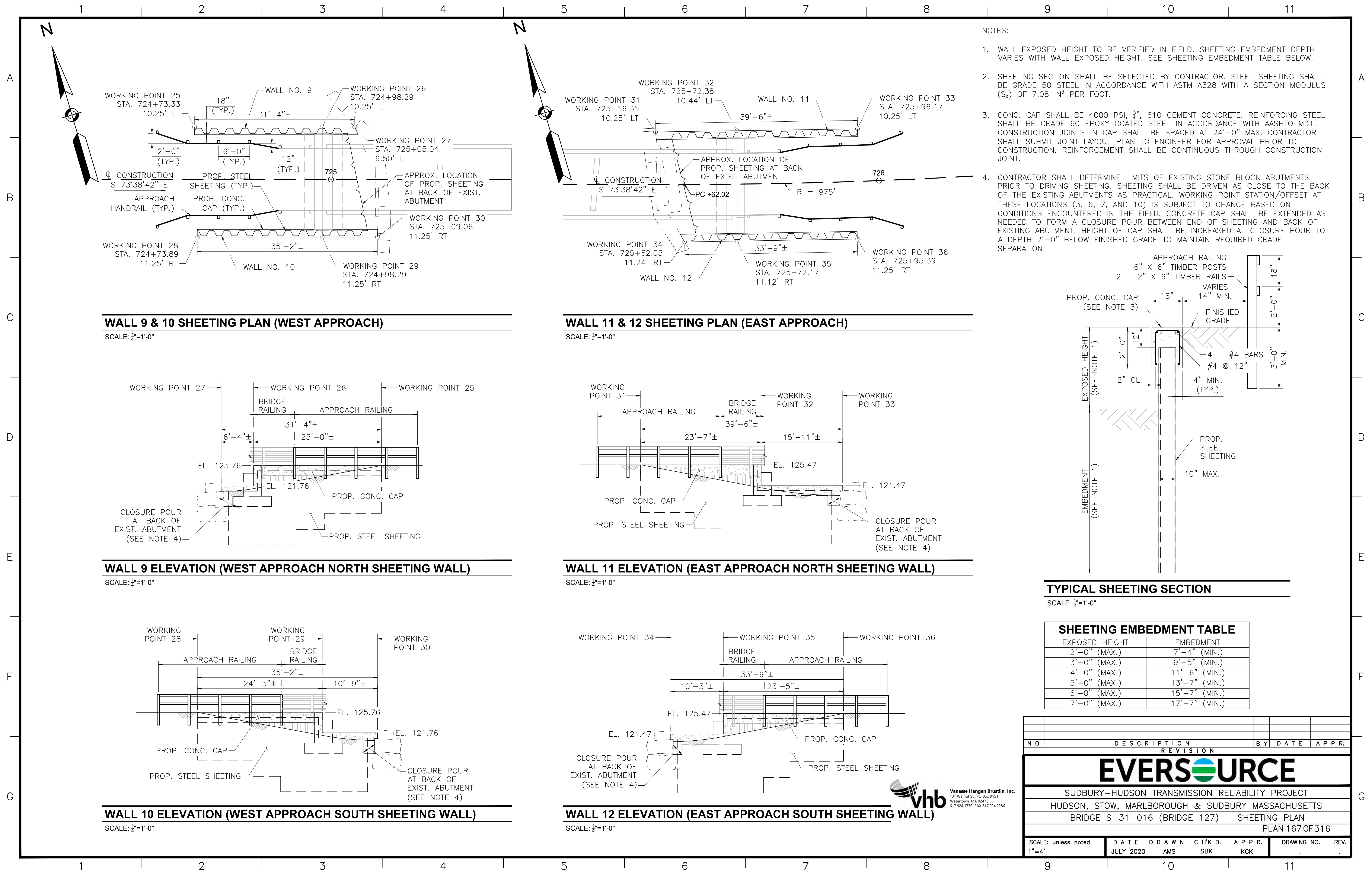
**EAST ABUTMENT ELEVATION**

SCALE: 1/4"=1'-0"



| NO.   | DESCRIPTION       | BY           | DATE          | APPR.        |                  |
|---|-------------------|--------------|---------------|--------------|------------------|
|   |                   |              |               |              | REVISION         |
| <b>EVERSOURCE</b>                                   |                   |              |               |              |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT     |                   |              |               |              |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS   |                   |              |               |              |                  |
| BRIDGE S-31-016 (BRIDGE 127) - SUBSTRUCTURE DETAILS |                   |              |               |              |                  |
| PLAN 66 OF 316                                      |                   |              |               |              |                  |
| SCALE: unless noted<br>1"=4'                        | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGK | DRAWING NO. REV. |





**NOTES:**

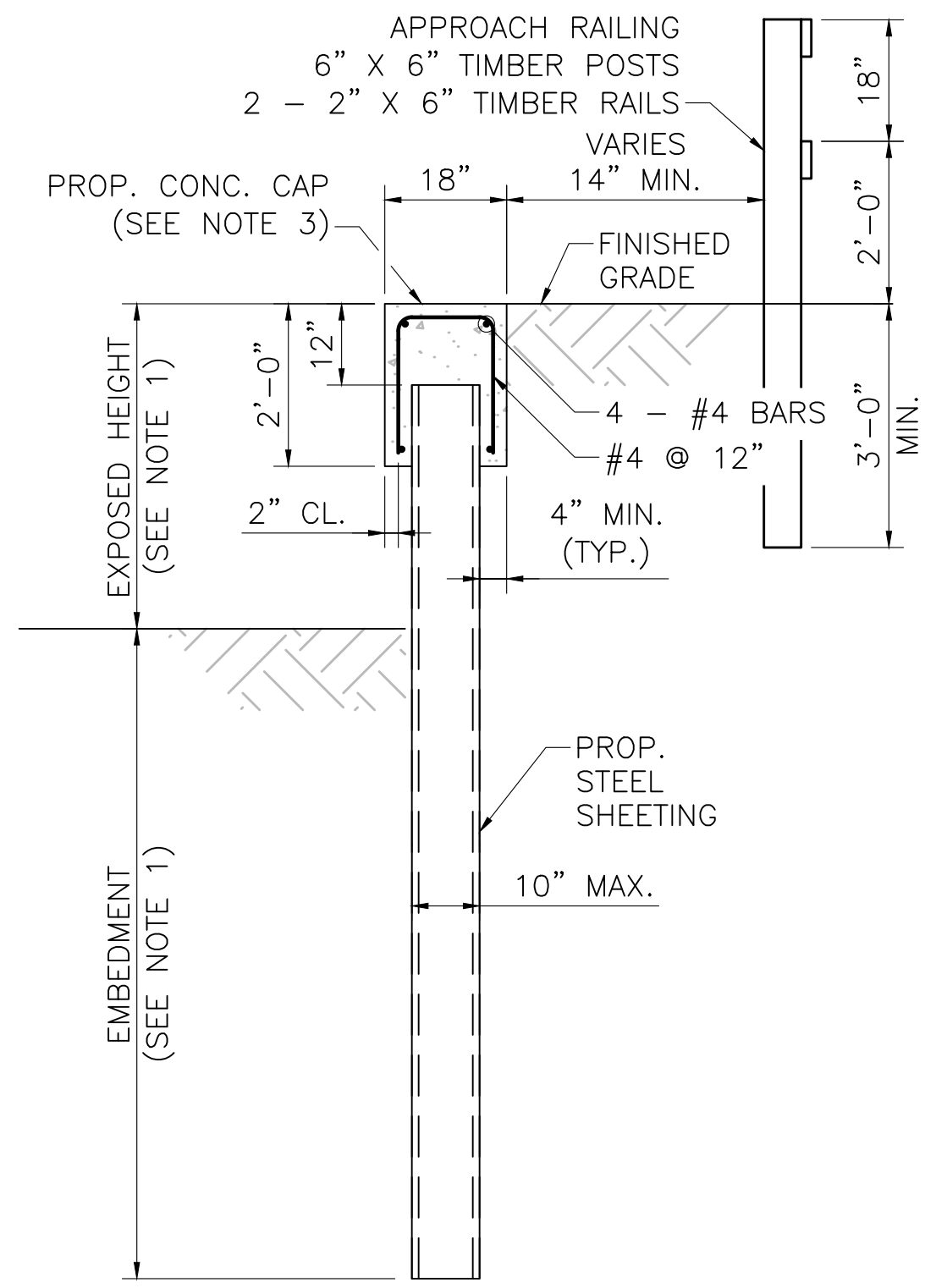
1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS ( $S_x$ ) OF 7.08 IN<sup>3</sup> PER FOOT.
3. CONC. CAP SHALL BE 4000 PSI, 3/4", 610 CEMENT CONCRETE. REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED STEEL IN ACCORDANCE WITH AASHTO M31. CONSTRUCTION JOINTS IN CAP SHALL BE SPACED AT 24'-0" MAX. CONTRACTOR SHALL SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT.
4. CONTRACTOR SHALL DETERMINE LIMITS OF EXISTING STONE BLOCK ABUTMENTS PRIOR TO DRIVING SHEETING. SHEETING SHALL BE DRIVEN AS CLOSE TO THE BACK OF THE EXISTING ABUTMENTS AS PRACTICAL. WORKING POINT STATION/OFFSET AT THESE LOCATIONS (3, 6, 7, AND 10) IS SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. CONCRETE CAP SHALL BE EXTENDED AS NEEDED TO FORM A CLOSURE POUR BETWEEN END OF SHEETING AND BACK OF EXISTING ABUTMENT. HEIGHT OF CAP SHALL BE INCREASED AT CLOSURE POUR TO A DEPTH 2'-0" BELOW FINISHED GRADE TO MAINTAIN REQUIRED GRADE SEPARATION.

**WALL 9 & 10 SHEETING PLAN (WEST APPROACH)**

SCALE: 1/4"=1'-0"

**WALL 11 & 12 SHEETING PLAN (EAST APPROACH)**

SCALE: 1/4"=1'-0"



**TYPICAL SHEETING SECTION**

SCALE: 3/8"=1'-0"

**WALL 9 ELEVATION (WEST APPROACH NORTH SHEETING WALL)**

SCALE: 1/4"=1'-0"

**WALL 11 ELEVATION (EAST APPROACH NORTH SHEETING WALL)**

SCALE: 1/4"=1'-0"

**SHEETING EMBEDMENT TABLE**

| EXPOSED HEIGHT | EMBEDMENT     |
|----------------|---------------|
| 2'-0" (MAX.)   | 7'-4" (MIN.)  |
| 3'-0" (MAX.)   | 9'-5" (MIN.)  |
| 4'-0" (MAX.)   | 11'-6" (MIN.) |
| 5'-0" (MAX.)   | 13'-7" (MIN.) |
| 6'-0" (MAX.)   | 15'-7" (MIN.) |
| 7'-0" (MAX.)   | 17'-7" (MIN.) |

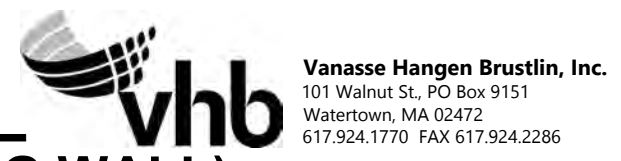
**WALL 10 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)**

SCALE: 1/4"=1'-0"

**WALL 12 ELEVATION (EAST APPROACH SOUTH SHEETING WALL)**

SCALE: 1/4"=1'-0"

| N.O.  | DESCRIPTION       | BY           | DATE          | APPR.            |
|---|-------------------|--------------|---------------|------------------|
| <b>REVISION</b>                                   |                   |              |               |                  |
| <b>EVERSOURCE</b>                                 |                   |              |               |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |              |               |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |              |               |                  |
| BRIDGE S-31-016 (BRIDGE 127) - SHEETING PLAN      |                   |              |               |                  |
| PLAN 167 OF 316                                   |                   |              |               |                  |
| SCALE: unless noted<br>1"=4'                      | DATE<br>JULY 2020 | DRAWN<br>AMS | CHK'D.<br>SBK | APPR.<br>KGK     |
|   |                   |              |               | DRAWING NO. REV. |

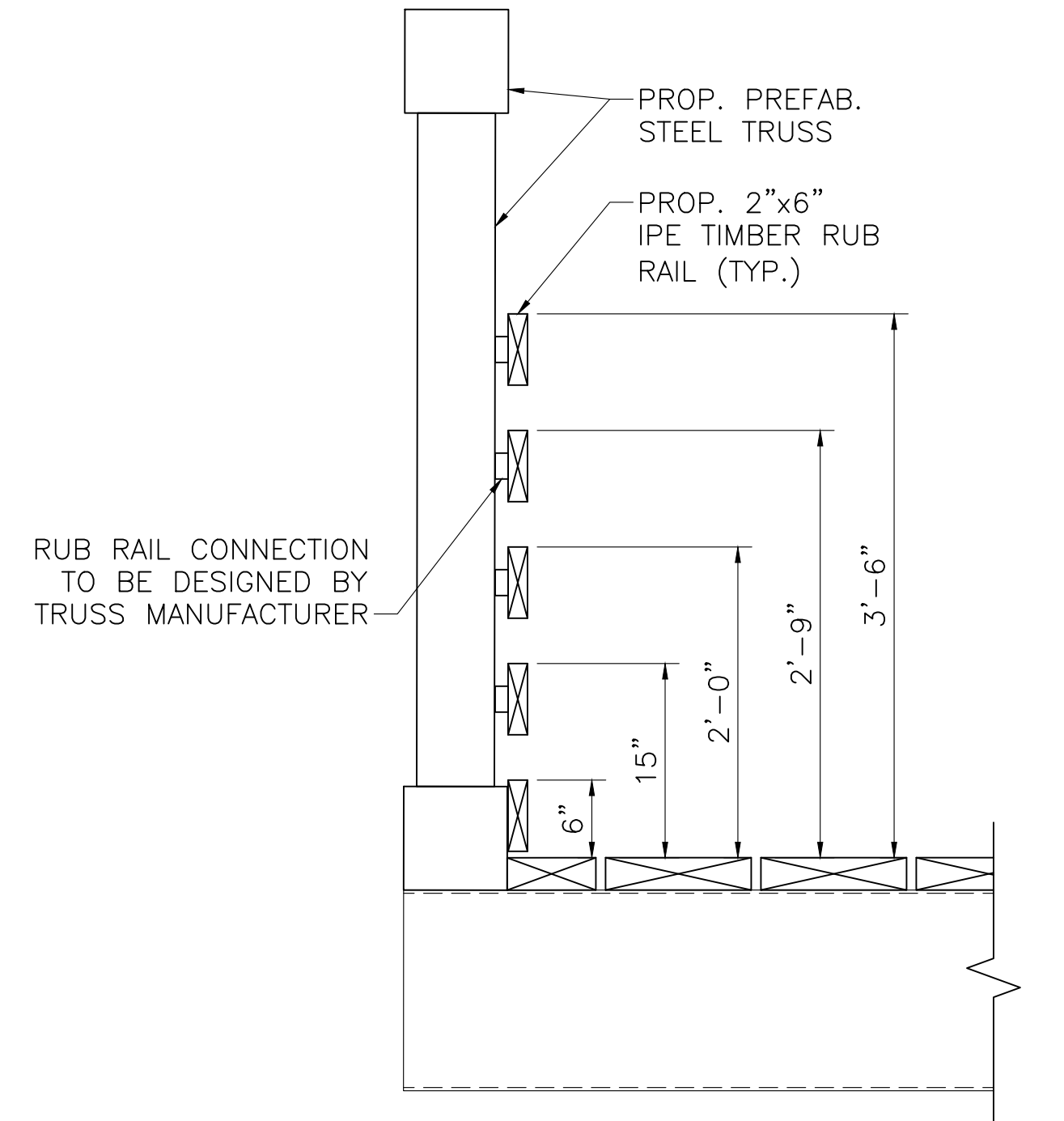


Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.324.1770 FAX 617.924.2286

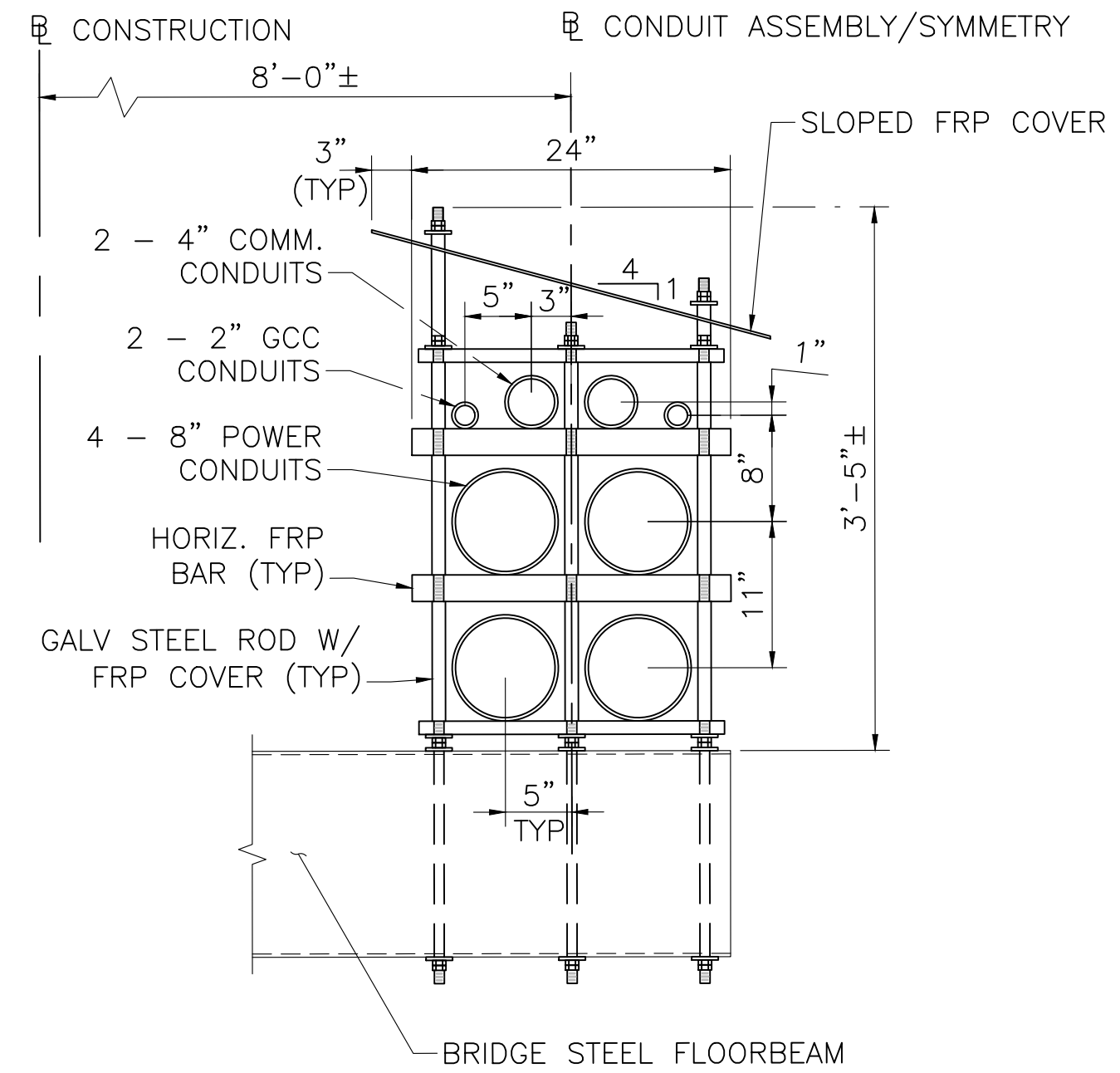
1 2 3 4 5 6 7 8 9 10 11

A  
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G

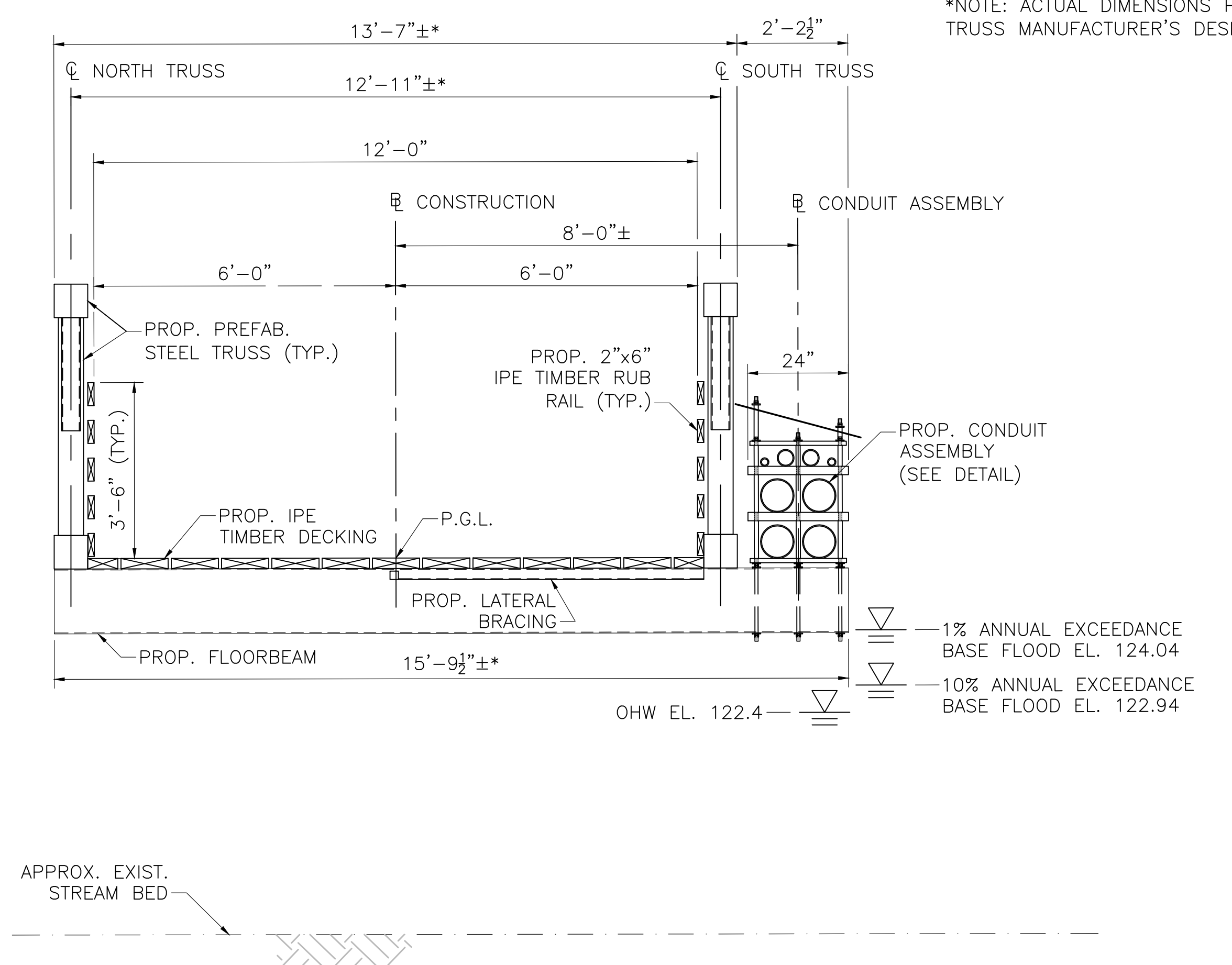
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**RAILING CONNECTION DETAIL**  
SCALE: 1"=1'-0"



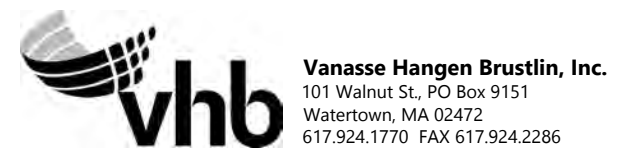
**CONDUIT ASSEMBLY DETAIL**  
SCALE: 1"=1'-0"



**BRIDGE TRANSVERSE SECTION**  
SCALE: 1/2"=1'-0"

- NOTES:**
- TRUSS SHALL BE DESIGNED FOR TEMPORARY H20 LOADING DURING CONSTRUCTION. TIMBER DECKING IS DESIGNED FOR H10 LOADING WITHOUT IMPACT AND 90 PSF PEDESTRIAN LOADING, WHICHEVER CONTROLS. CONTRACTOR SHALL DESIGN TEMPORARY DECKING IF BRIDGE IS INTENDED TO BE USED FOR CONSTRUCTION VEHICLES.

| N O.  | DESCRIPTION    | BY         | DATE       | APPR.      |
|---|----------------|------------|------------|------------|
| <b>REVISION</b>                                   |                |            |            |            |
| <b>EVERSOURCE</b>                                 |                |            |            |            |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                |            |            |            |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                |            |            |            |
| BRIDGE S-31-016 (BRIDGE 127) - SECTION OF DETAILS |                |            |            |            |
| PLAN 168 OF 316                                   |                |            |            |            |
| SCALE: unless noted VARIES                        | DATE: JAN 2020 | DRAWN: AMS | CHK'D: SBK | APPR.: KGK |
| DRAWING NO. #                                     |                |            |            |            |



1 2 3 4 5 6 7 8 9 10 11

1 2 3 4 5 6 7 8 9 10 11

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A

B

B

C

C

D

D

E

E

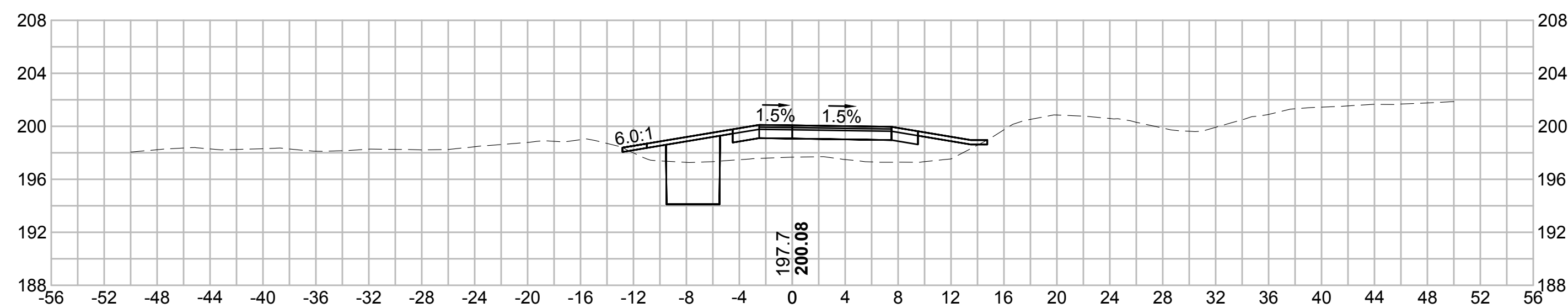
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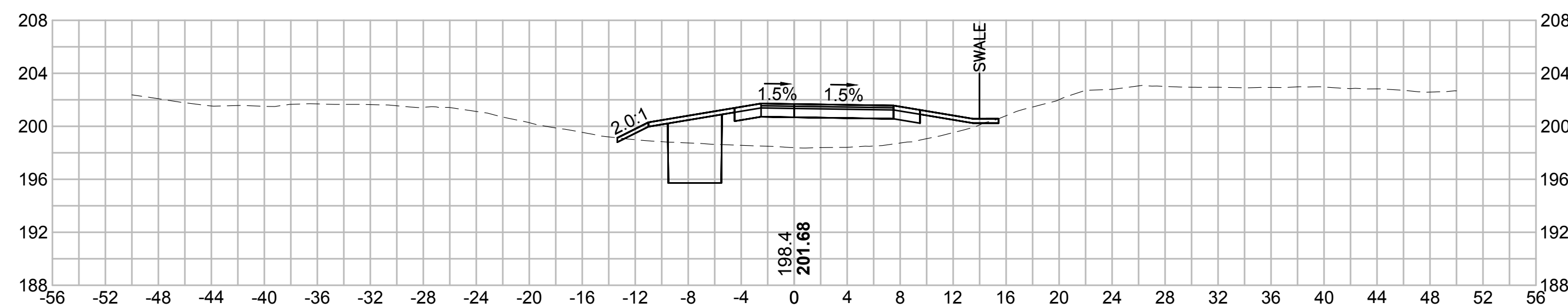
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G

360+50

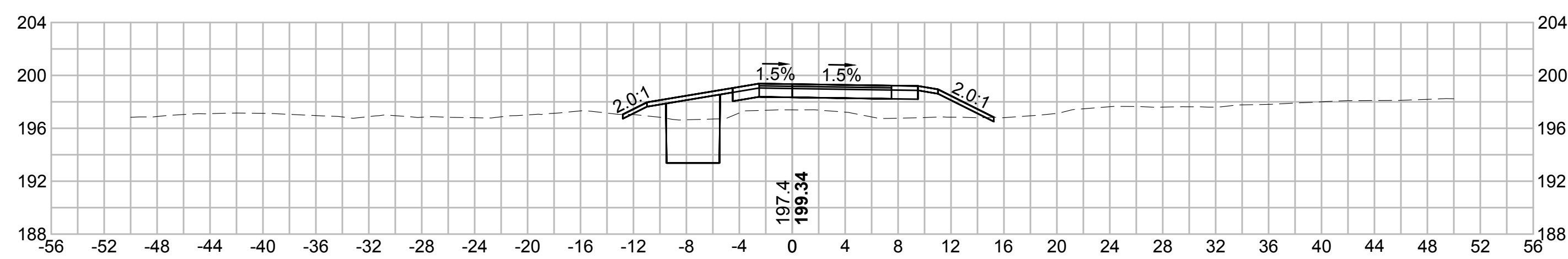


362+00

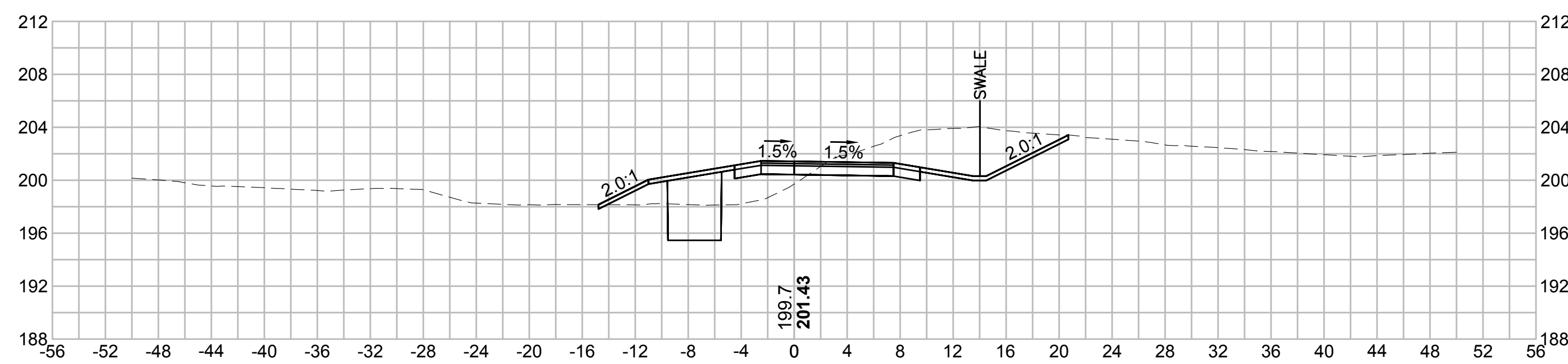


TOWN OF SUDBURY

360+00

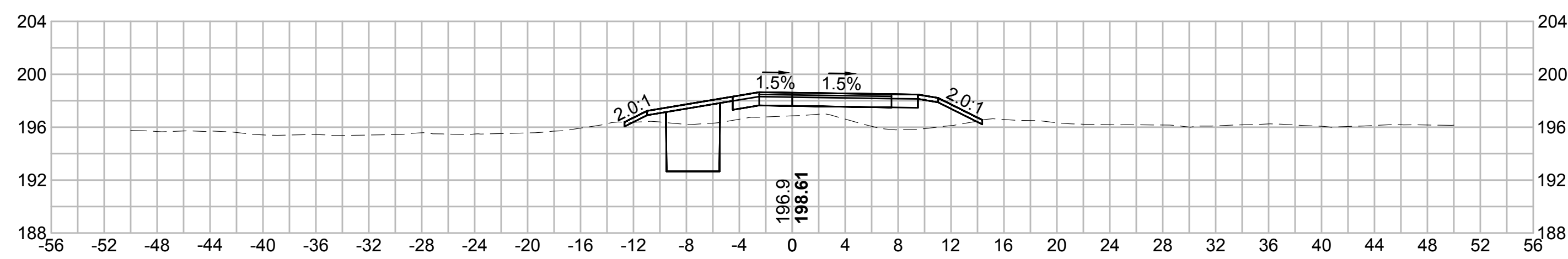


361+50

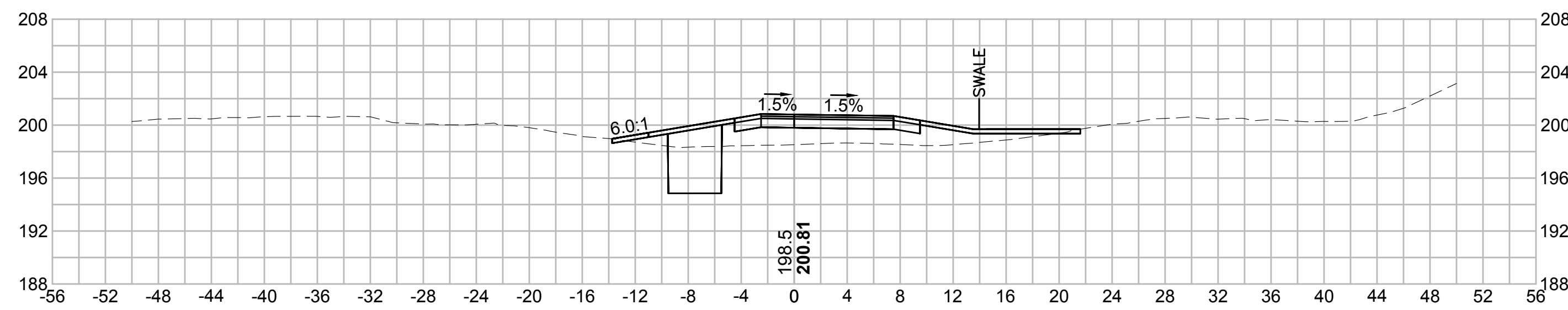


CITY OF MARLBOROUGH  
TOWN OF HUDSON

359+50

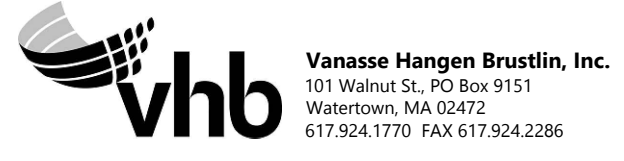
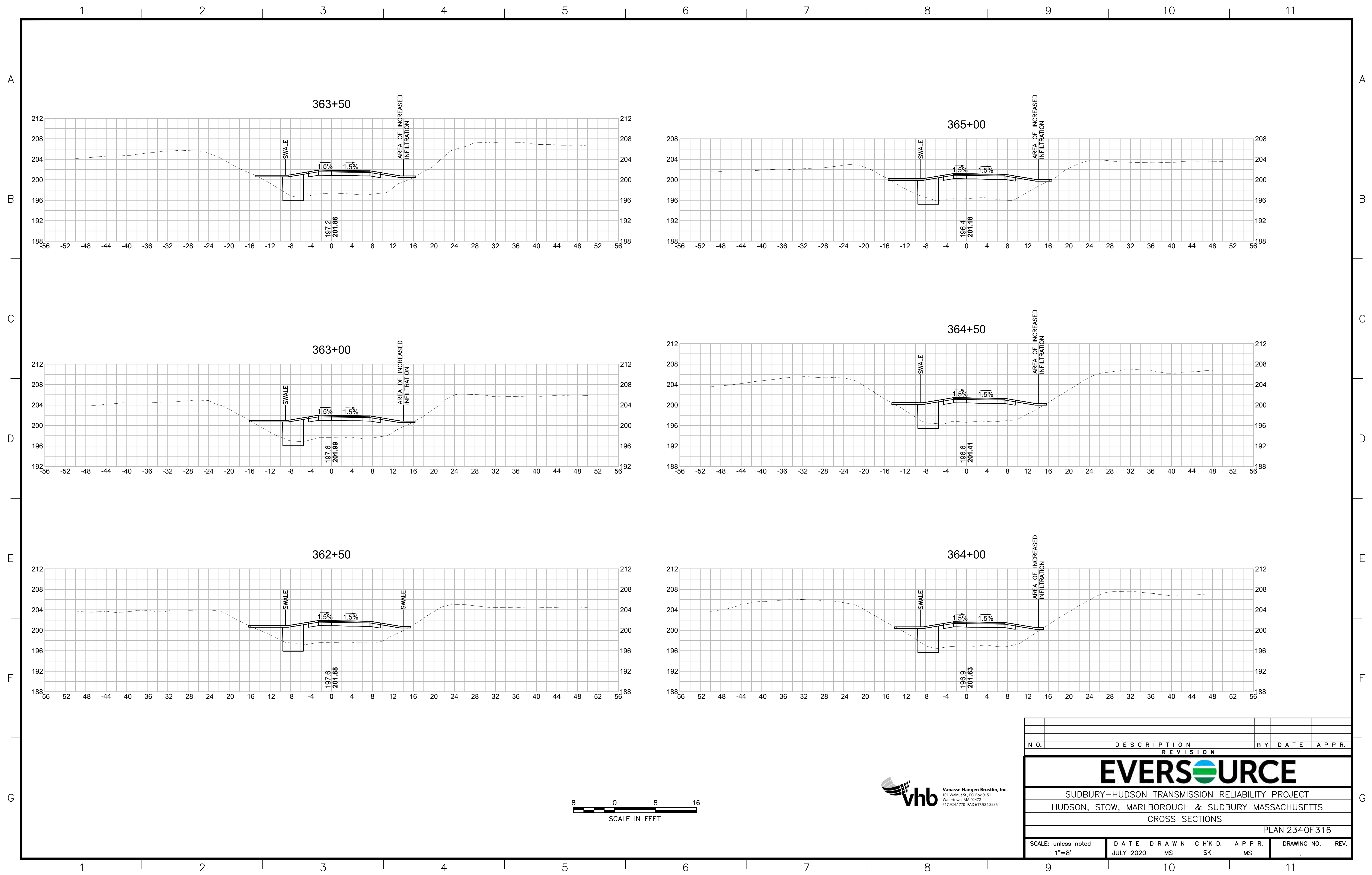


361+00



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
|   | REVISION          |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 233 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

1 2 3 4 5 6 7 8 9 10 11



| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.          |
|---|-------------------|-------------|---------------|----------------|
|   | REVISION          |             |               |                |
| <b>EVERSOURCE</b>                                 |                   |             |               |                |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                |
| CROSS SECTIONS                                    |                   |             |               |                |
| PLAN 234 OF 316                                   |                   |             |               |                |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MS |
| DRAWING NO.                                       | REV.              |             |               |                |

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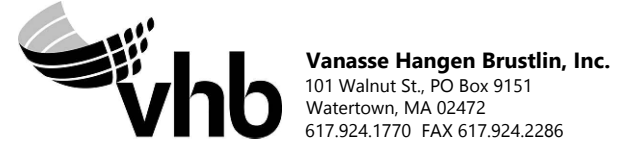
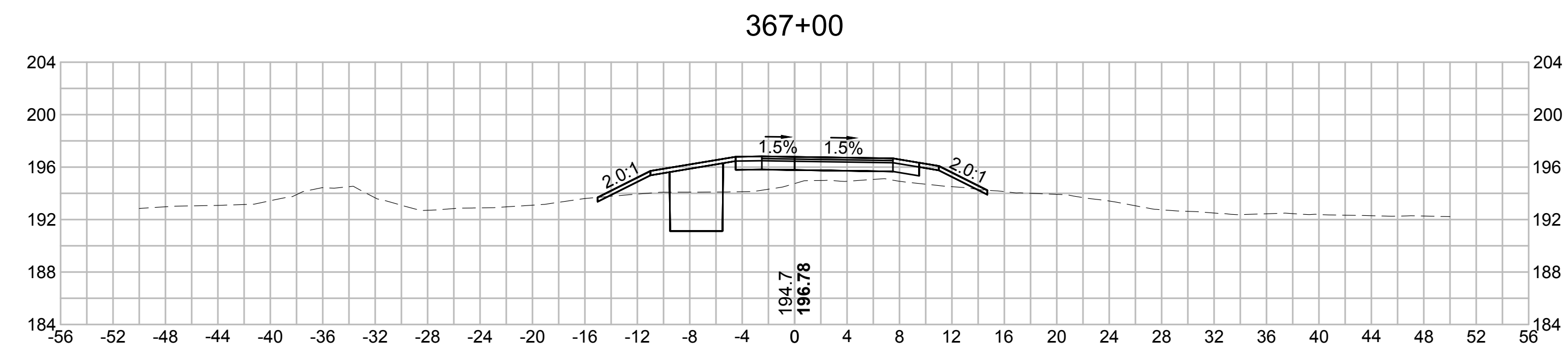
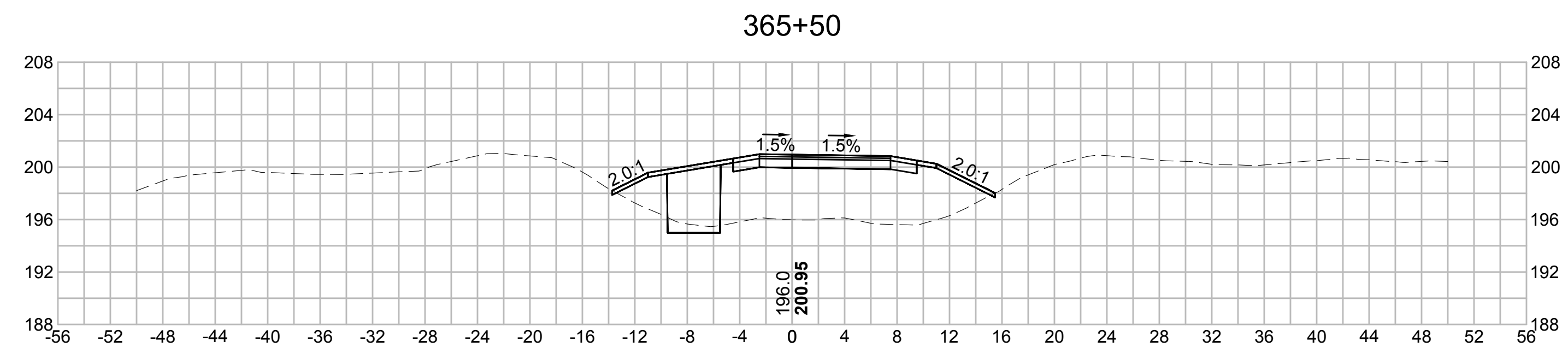
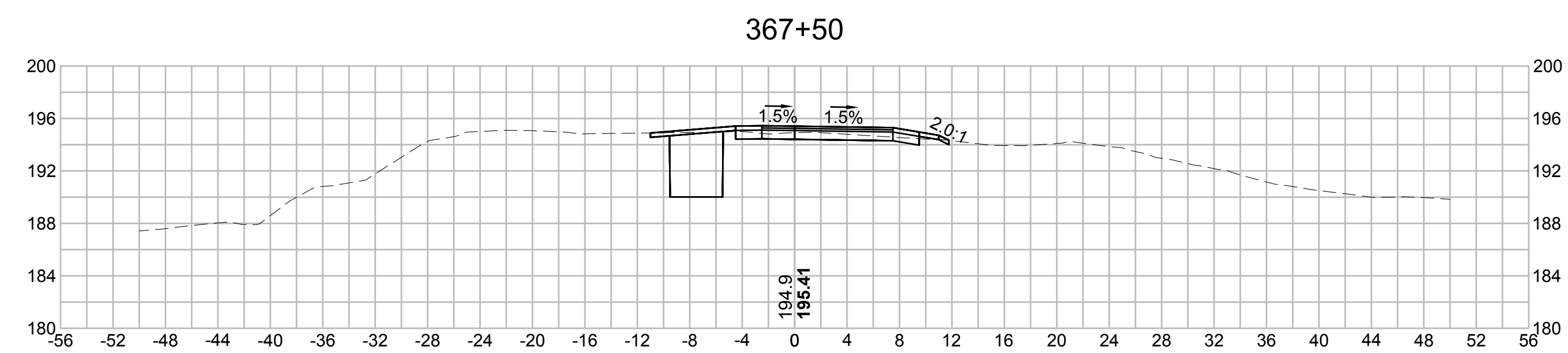
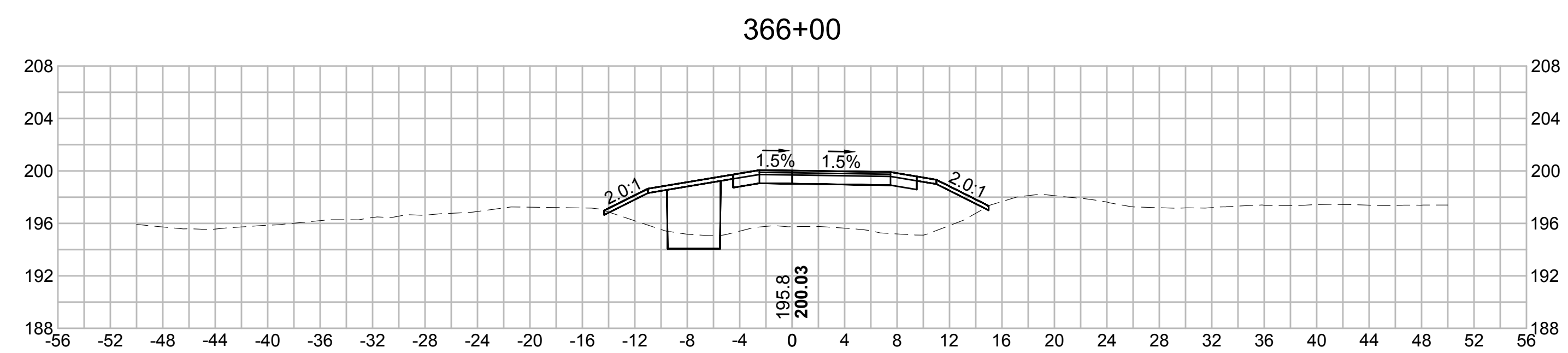
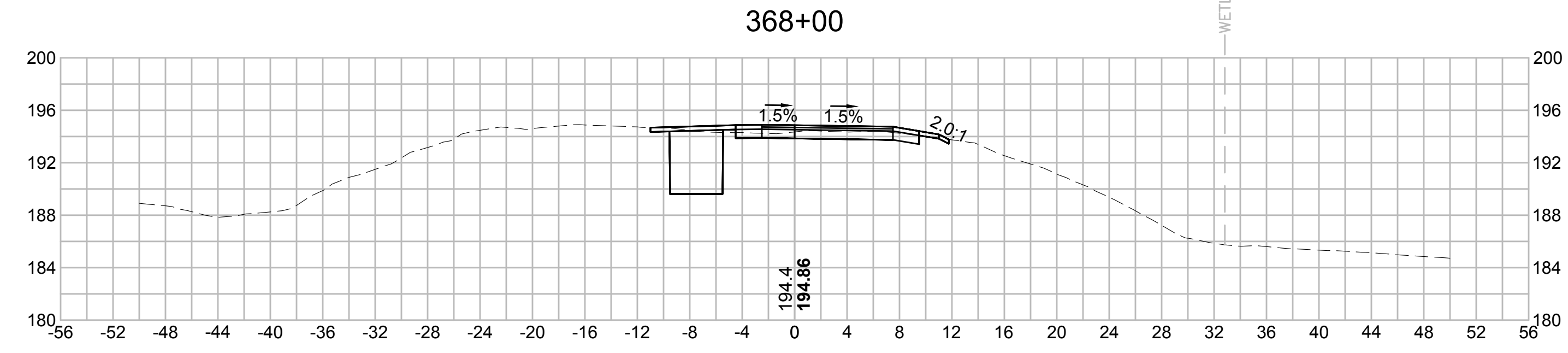
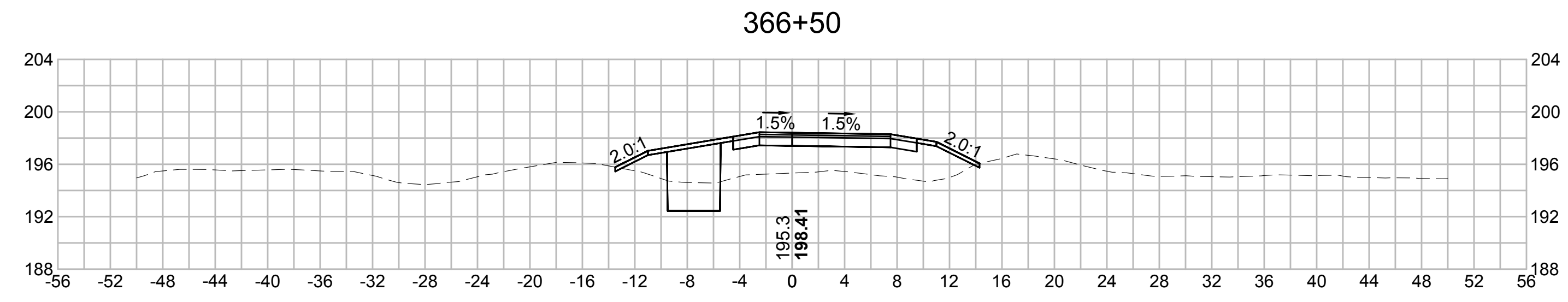
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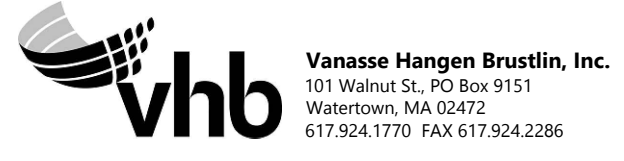
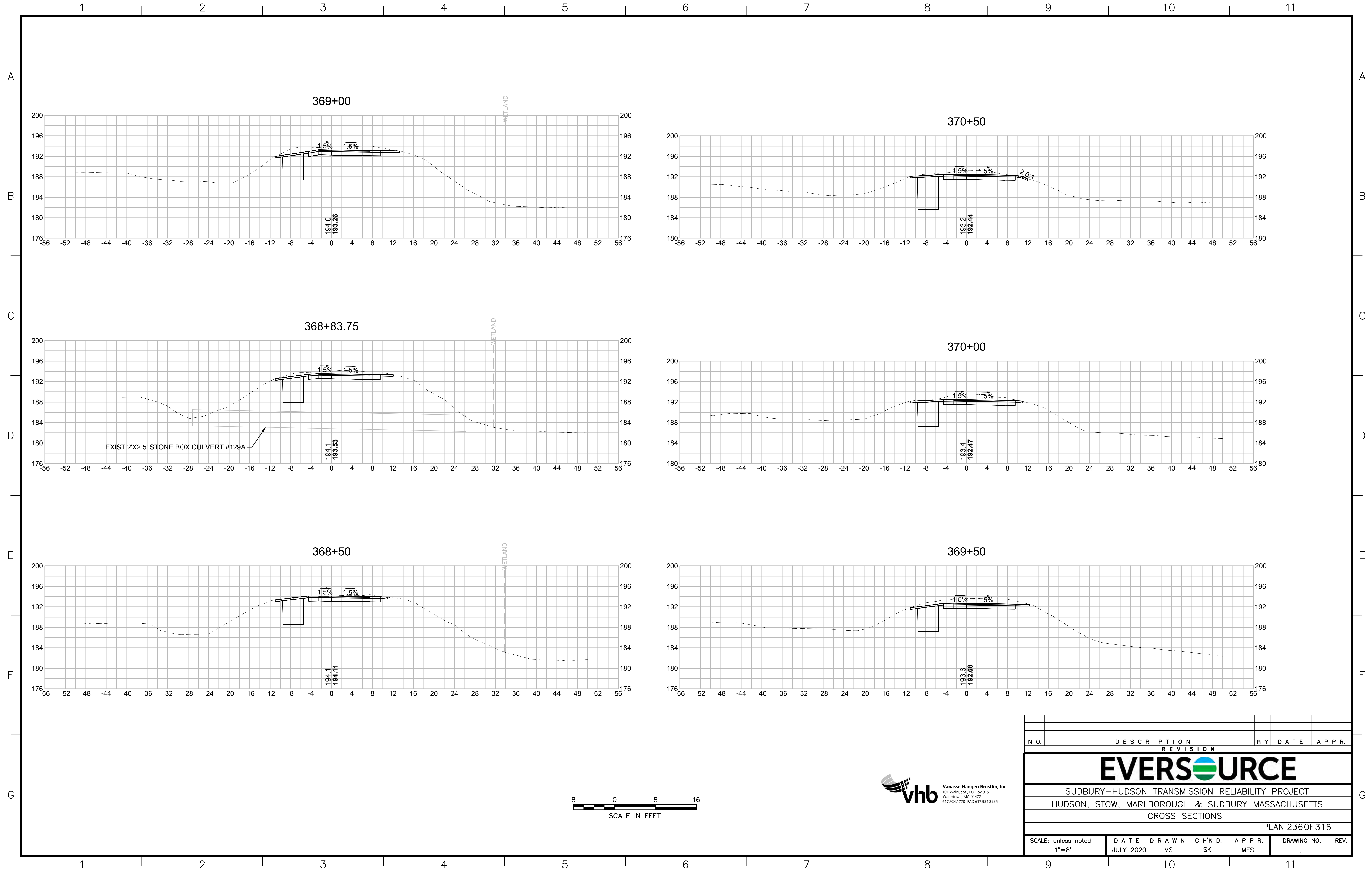
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.        |
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|   | REVISION          |             |               |              |
| <b>EVERSOURCE</b>                                 |                   |             |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |              |
| CROSS SECTIONS                                    |                   |             |               |              |
| PLAN 235 OF 316                                   |                   |             |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |               |              |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 236 OF 316

|                              |                   |             |                |               |             |      |
|------------------------------|-------------------|-------------|----------------|---------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C H'K D.<br>SK | APP R.<br>MES | DRAWING NO. | REV. |
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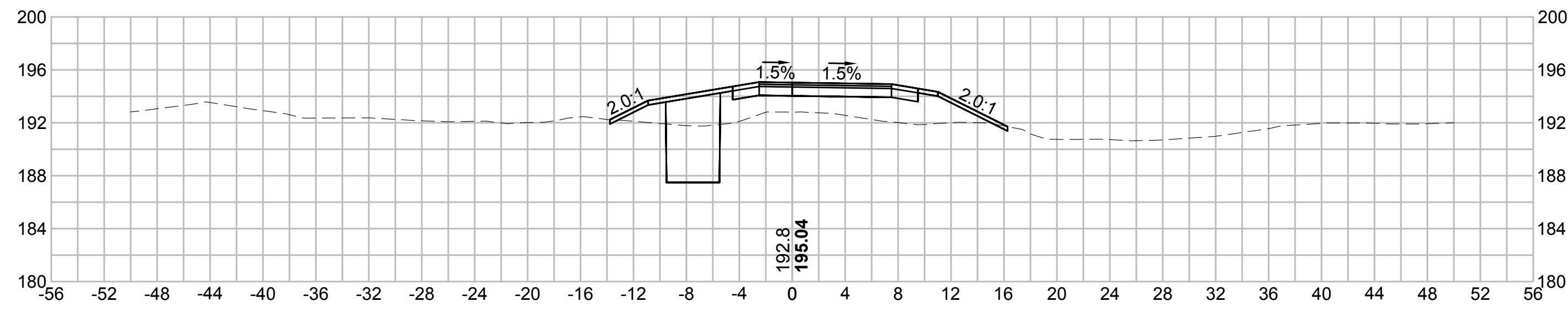
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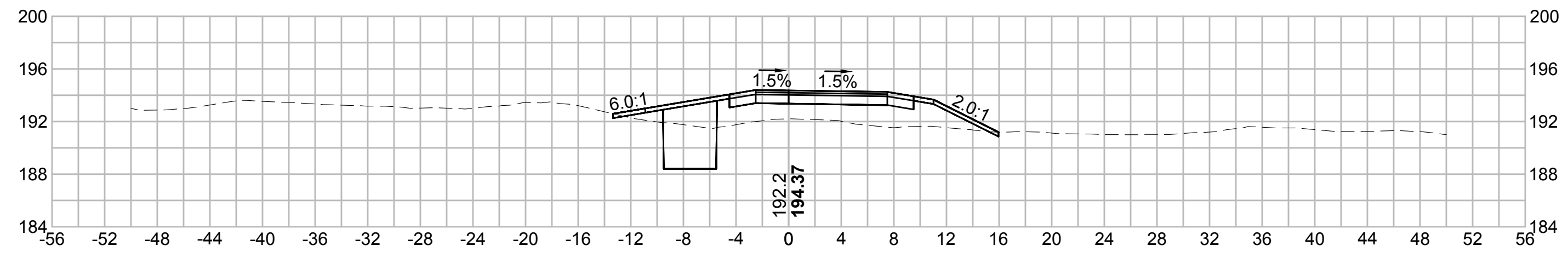
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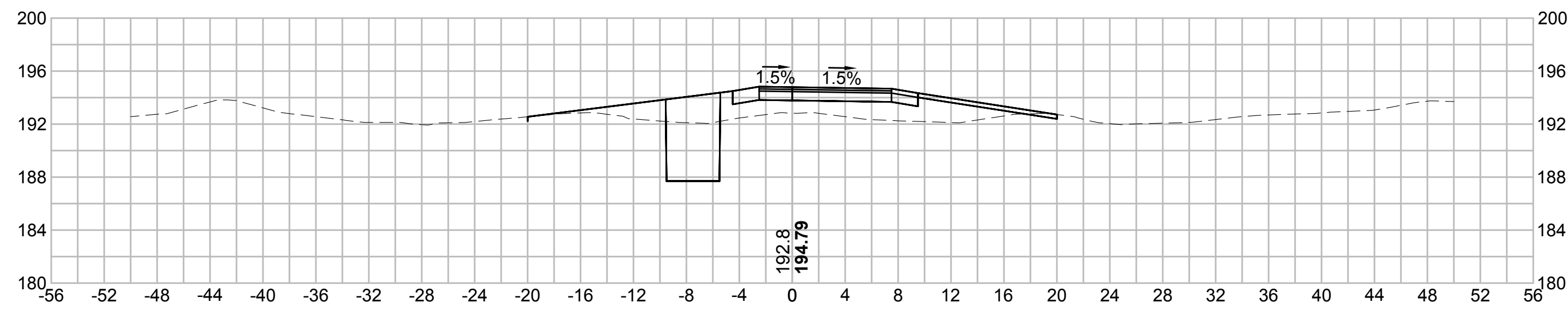
372+00



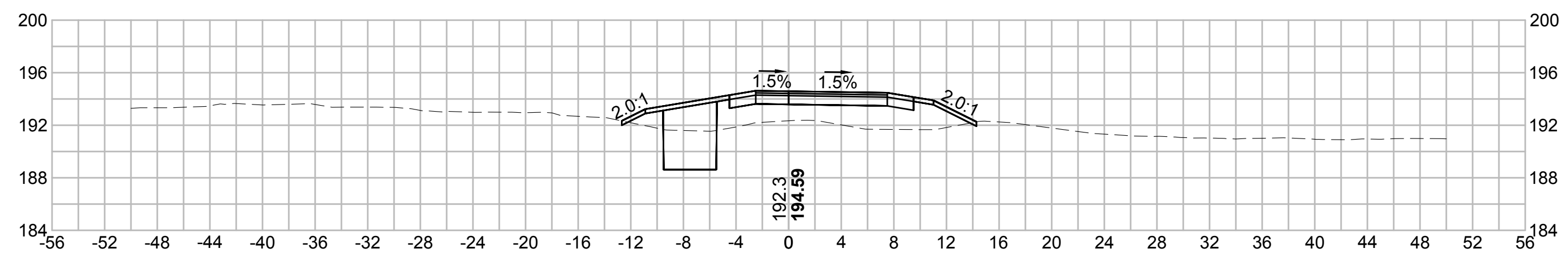
373+50



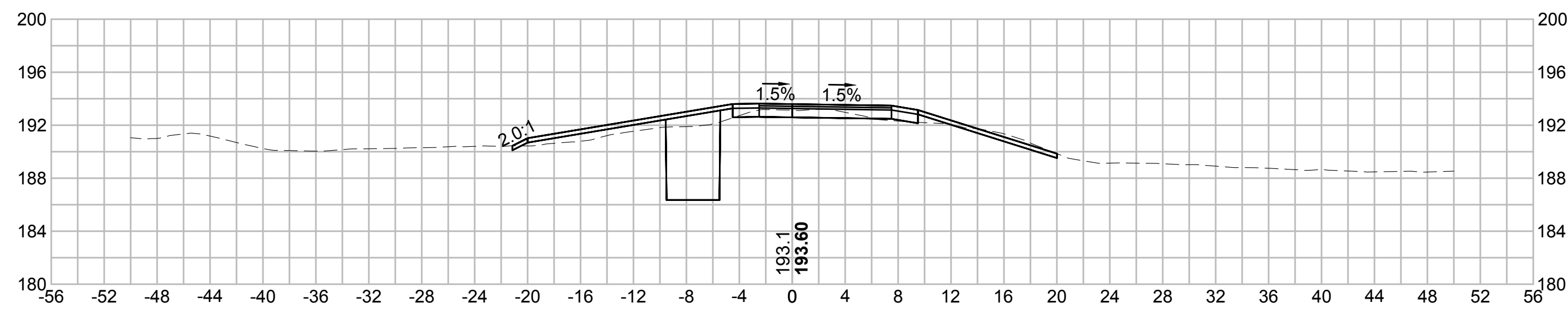
371+50



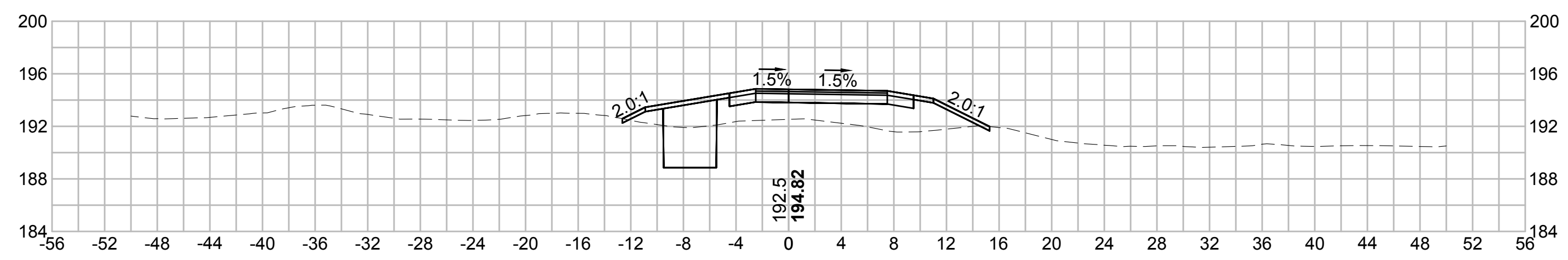
373+00



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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 237 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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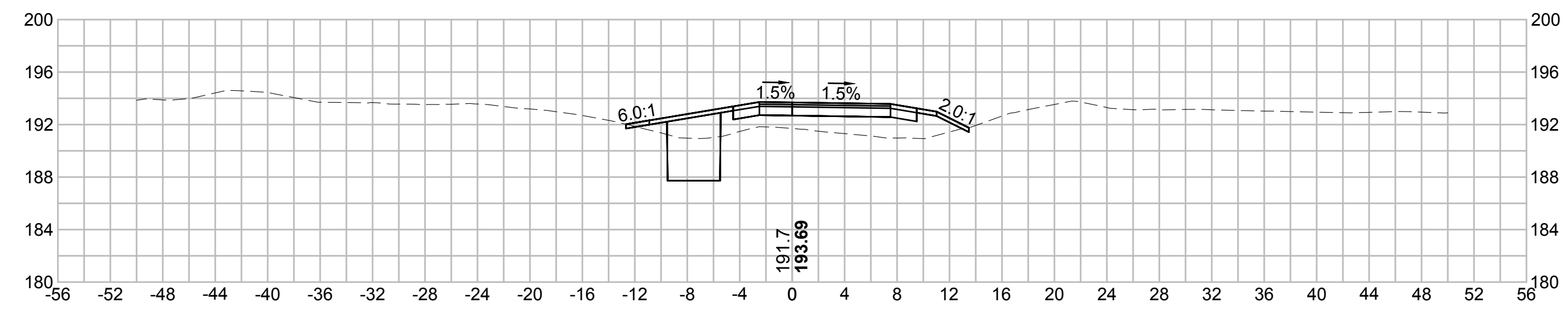
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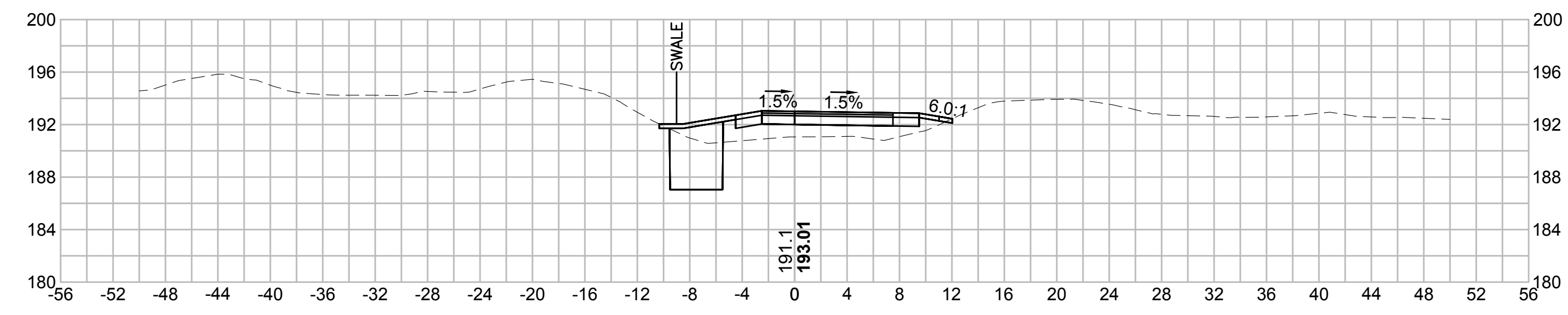
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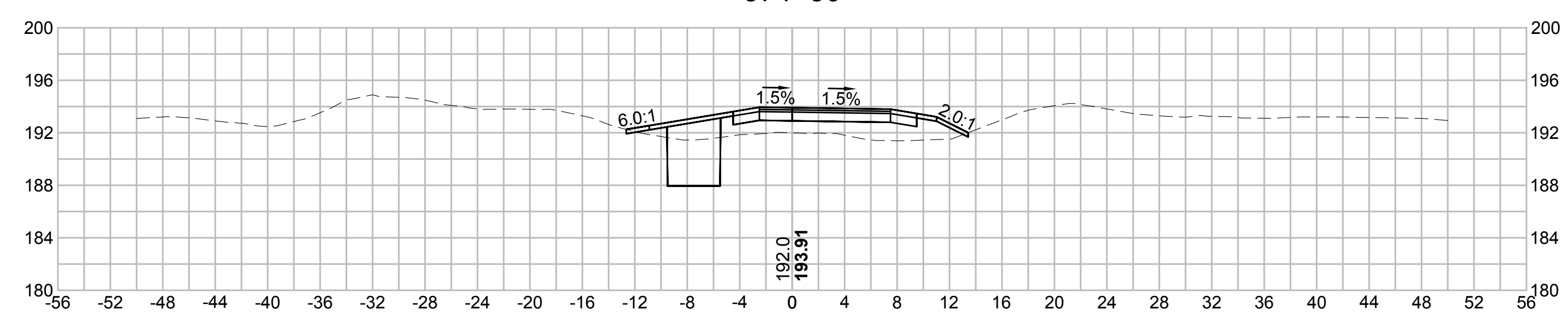
375+00



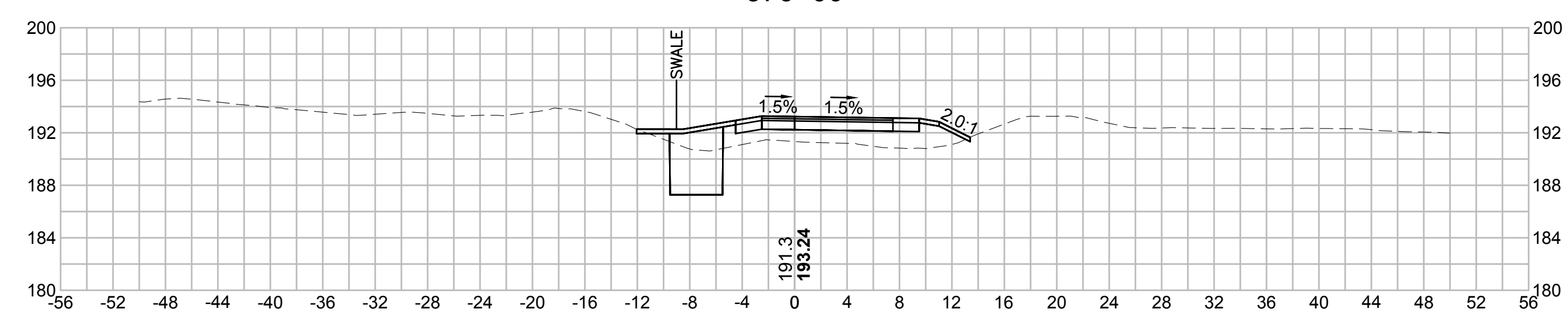
376+50



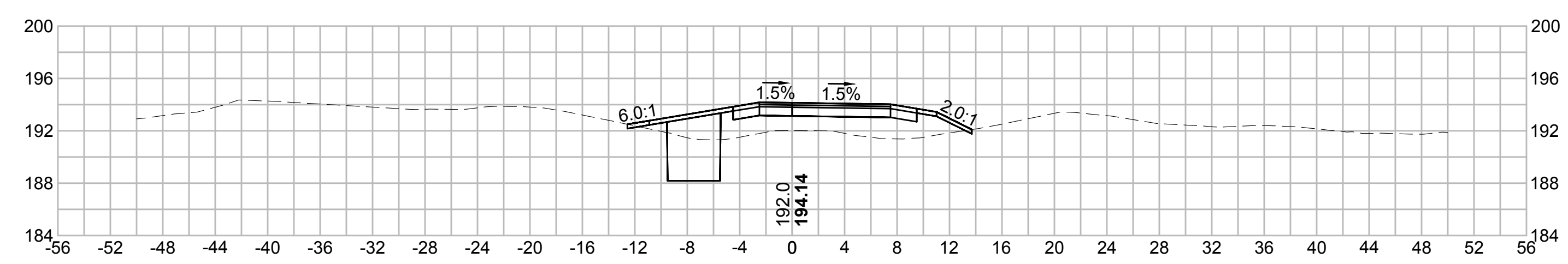
374+50



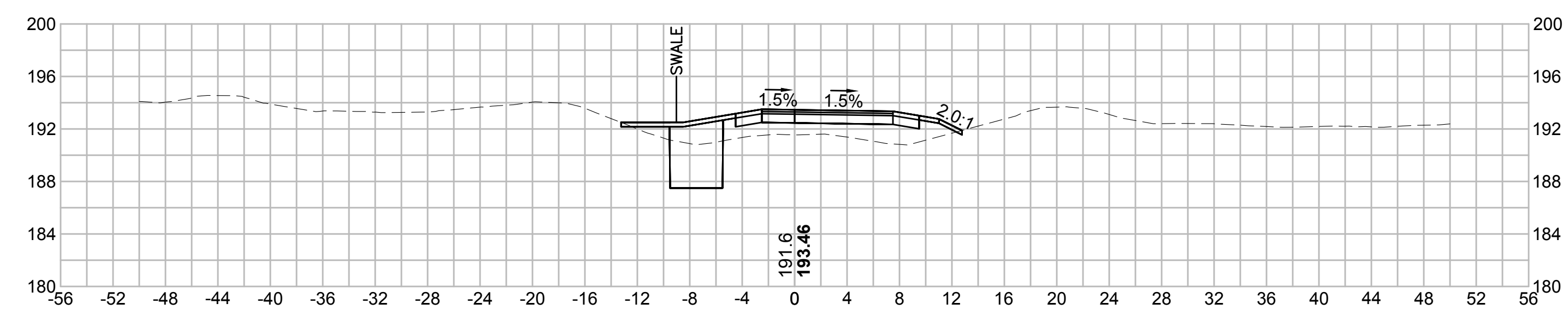
376+00



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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 238 OF 316

|                              |                   |             |               |                 |                  |           |
|------------------------------|-------------------|-------------|---------------|-----------------|------------------|-----------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO.<br>. | REV.<br>. |
|------------------------------|-------------------|-------------|---------------|-----------------|------------------|-----------|

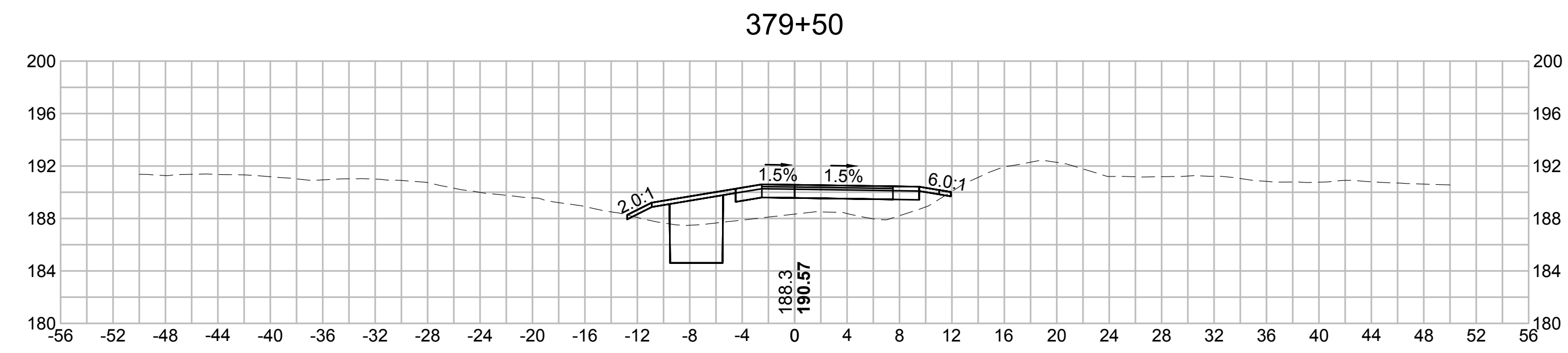
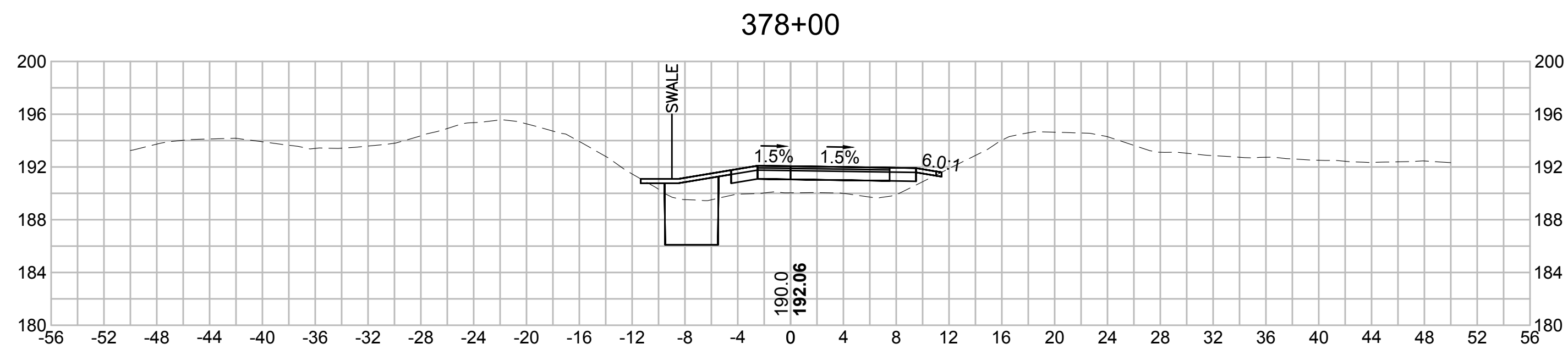
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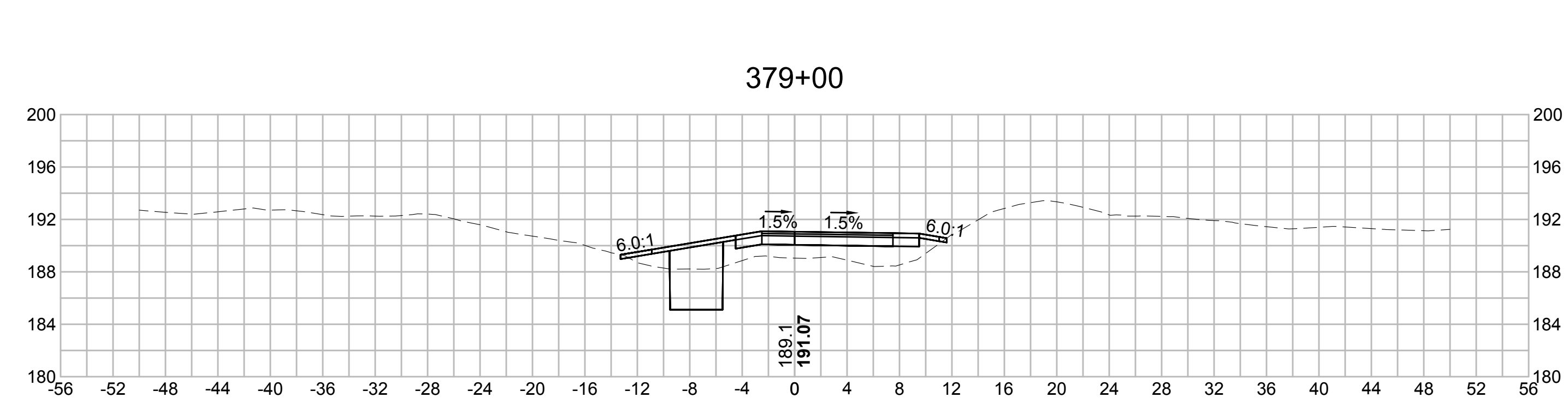
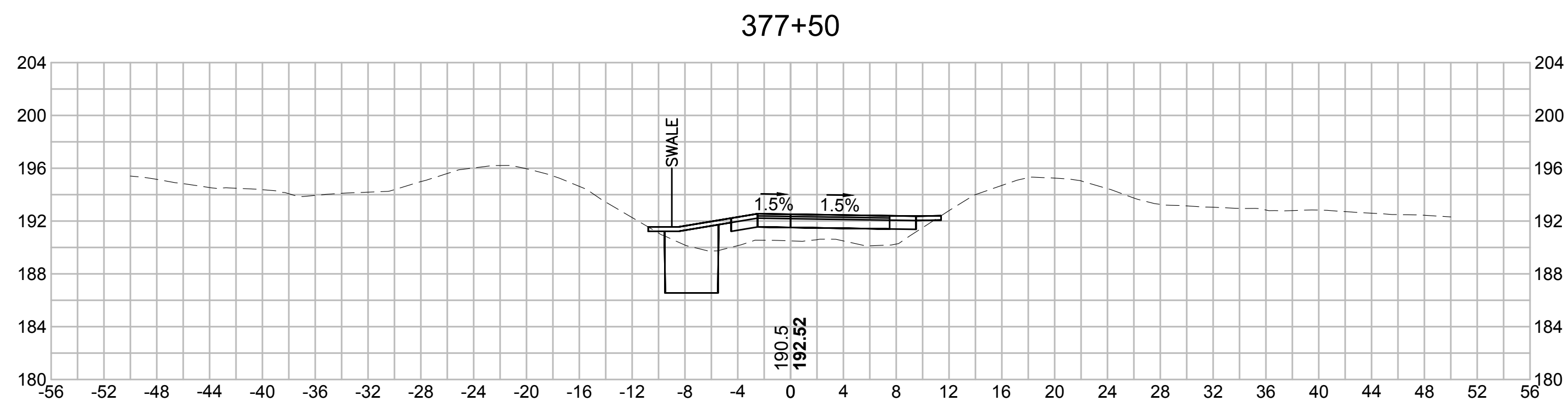


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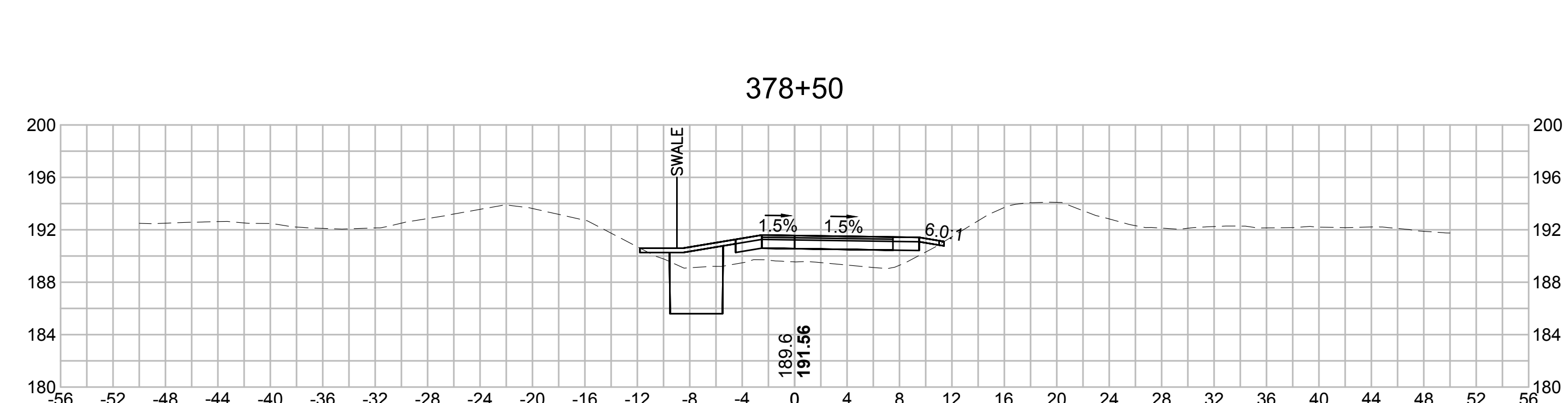
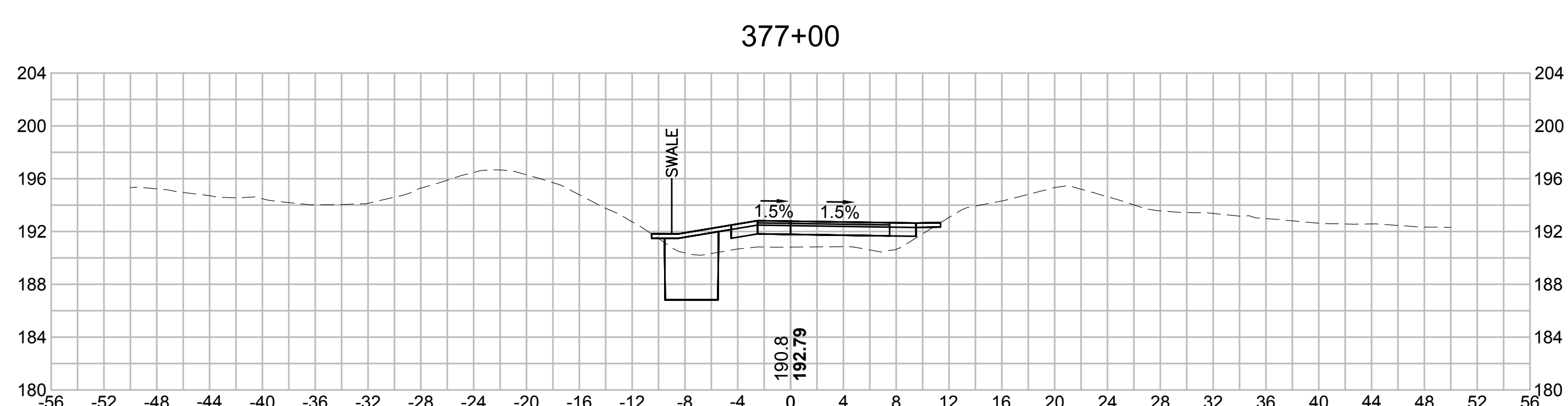


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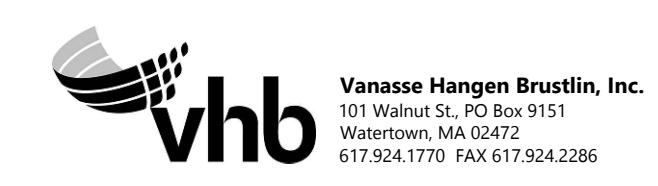


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Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.924.1770 FAX 617.924.2286

| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 239 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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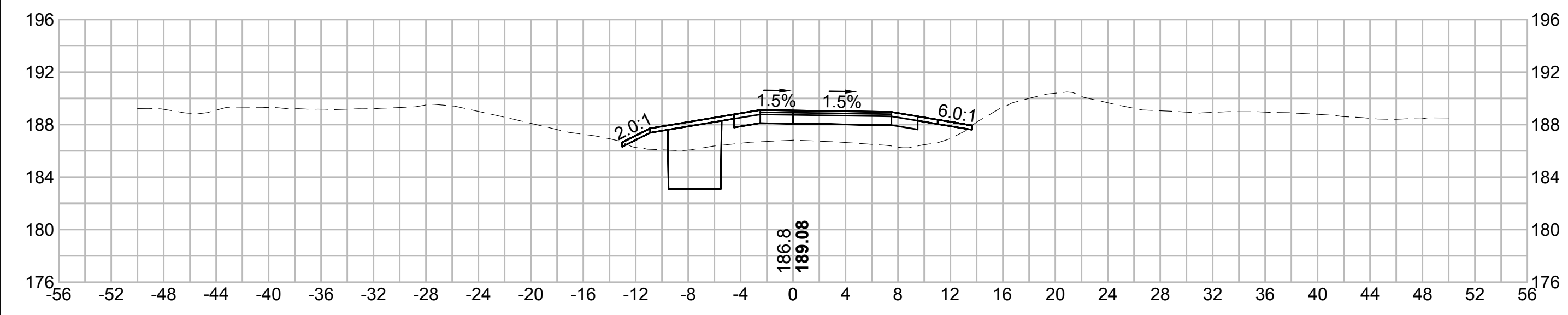
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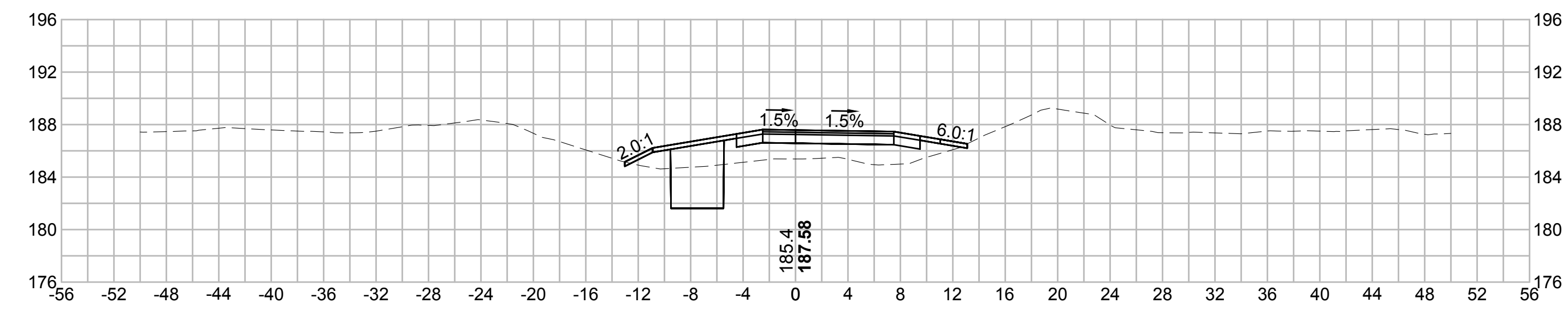
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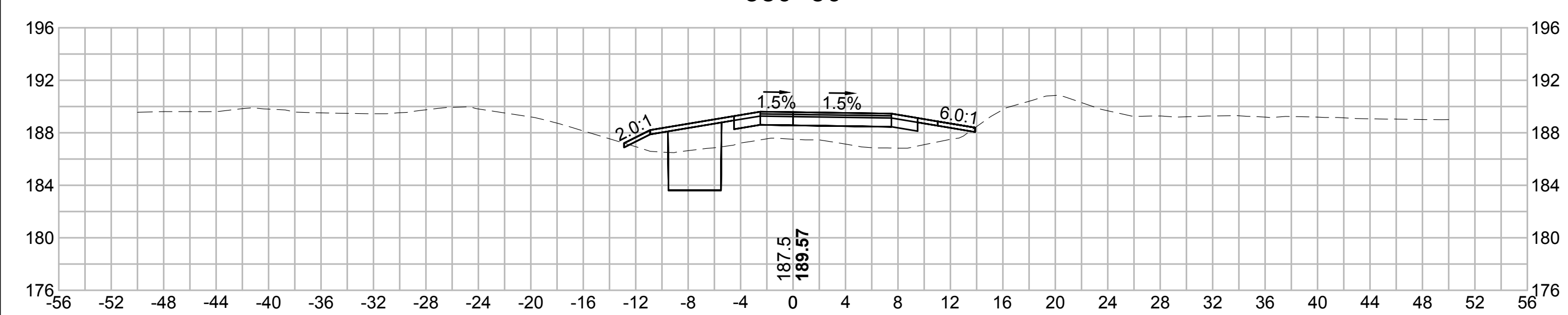
381+00



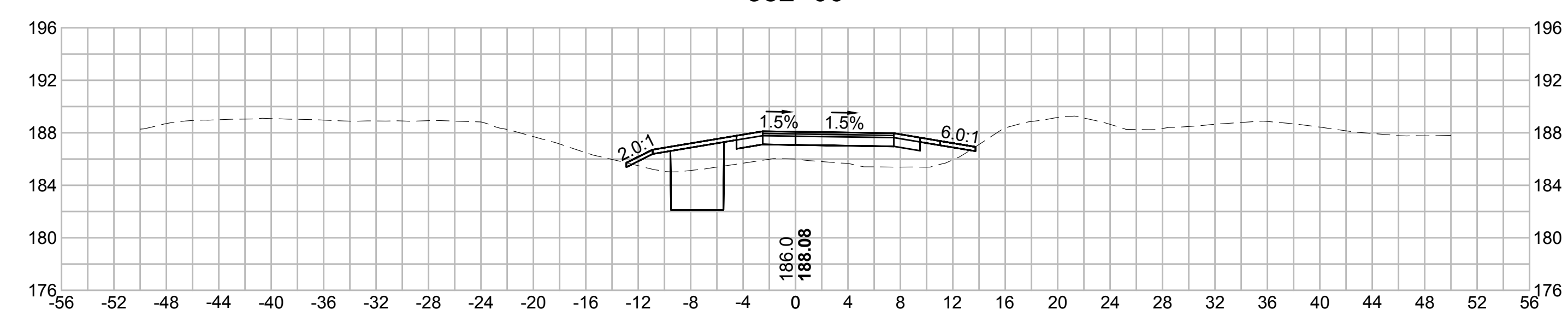
382+50



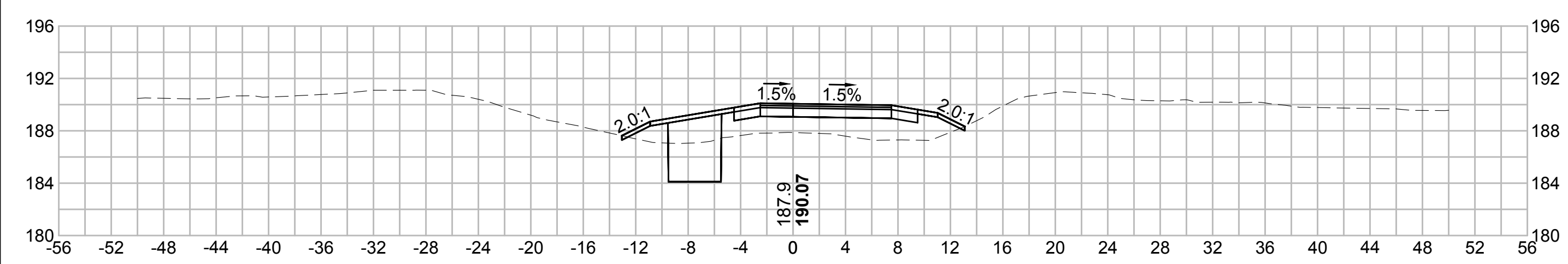
380+50



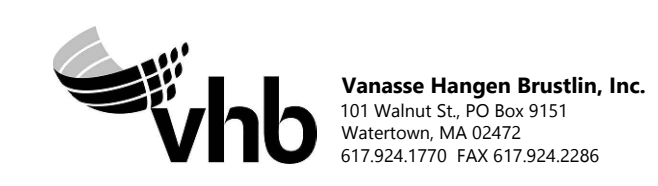
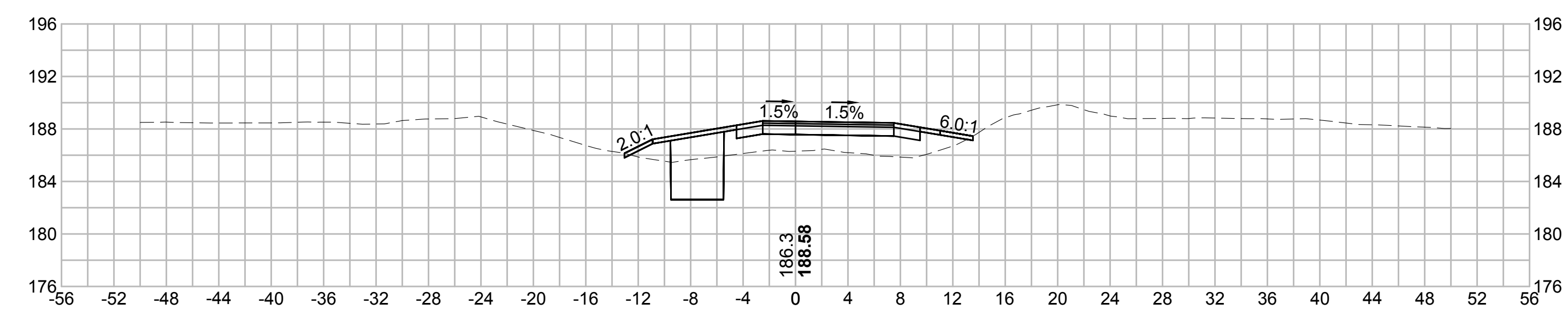
382+00



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| N O.  | DESCRIPTION       | BY          | DATE           | APPR.           |
|---|-------------------|-------------|----------------|-----------------|
|   | REVISION          |             |                |                 |
| <b>EVERSOURCE</b>                                 |                   |             |                |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |                 |
| CROSS SECTIONS                                    |                   |             |                |                 |
| PLAN 240 OF 316                                   |                   |             |                |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C H'K D.<br>SK | A P P R.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |                 |

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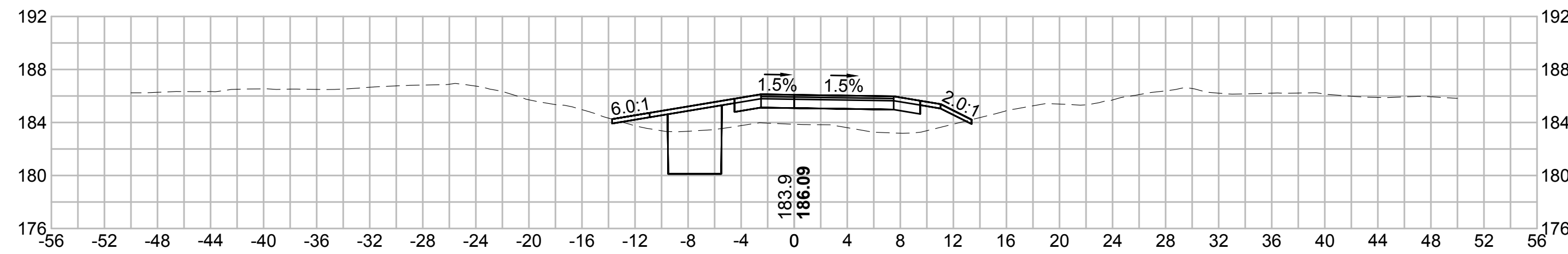
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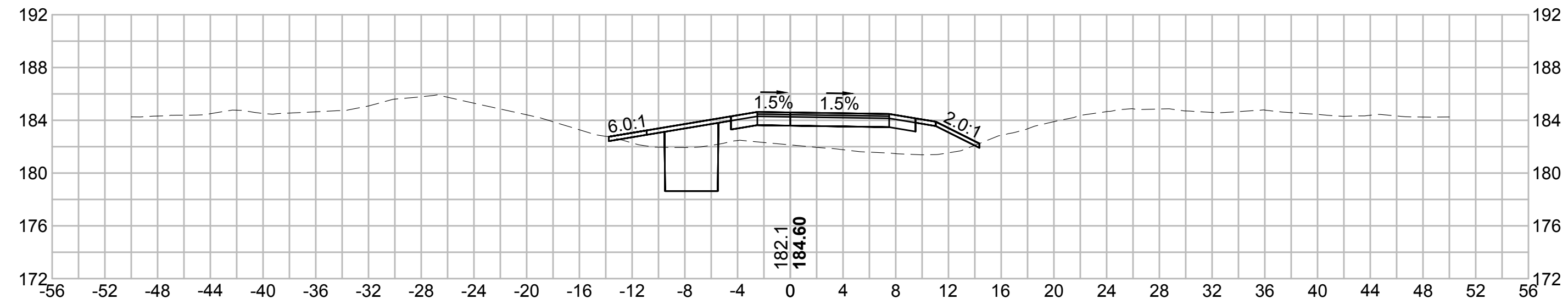
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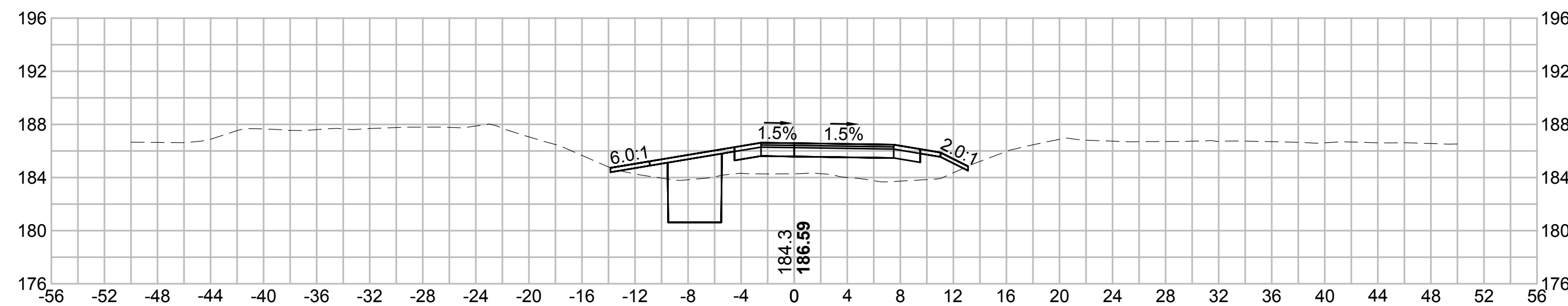
384+00



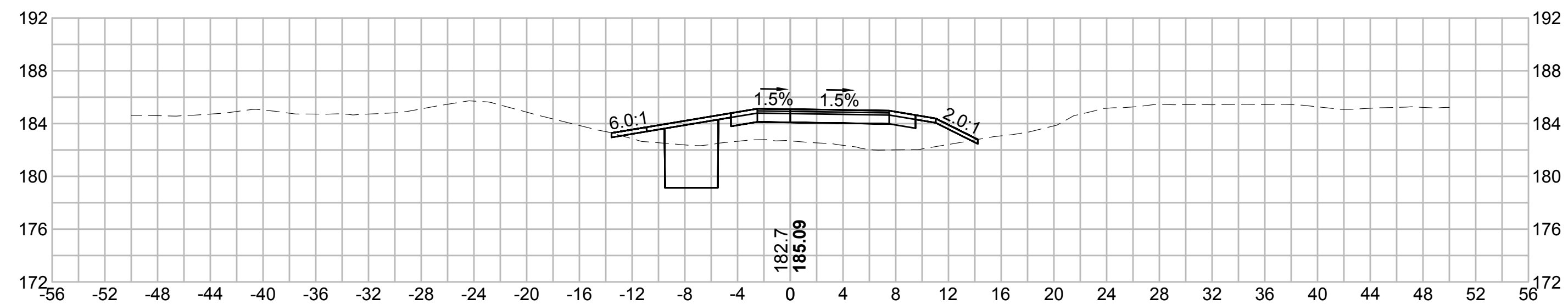
385+50



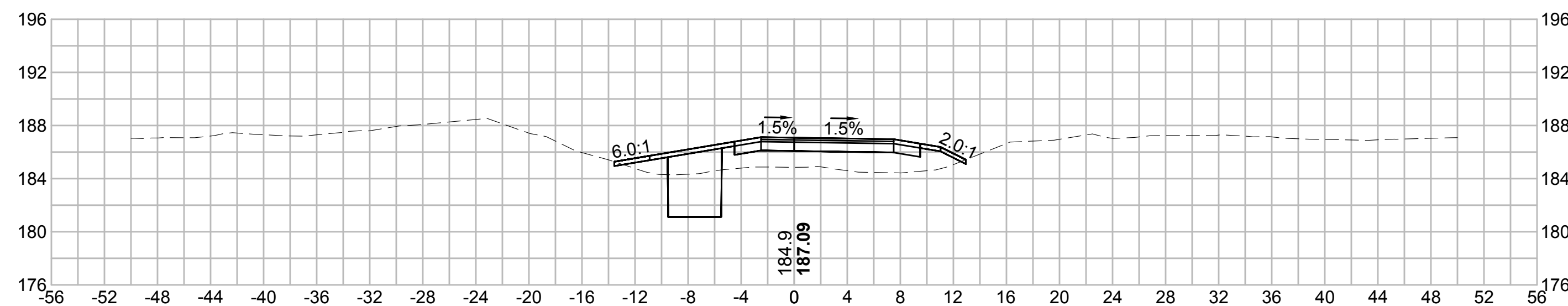
383+50



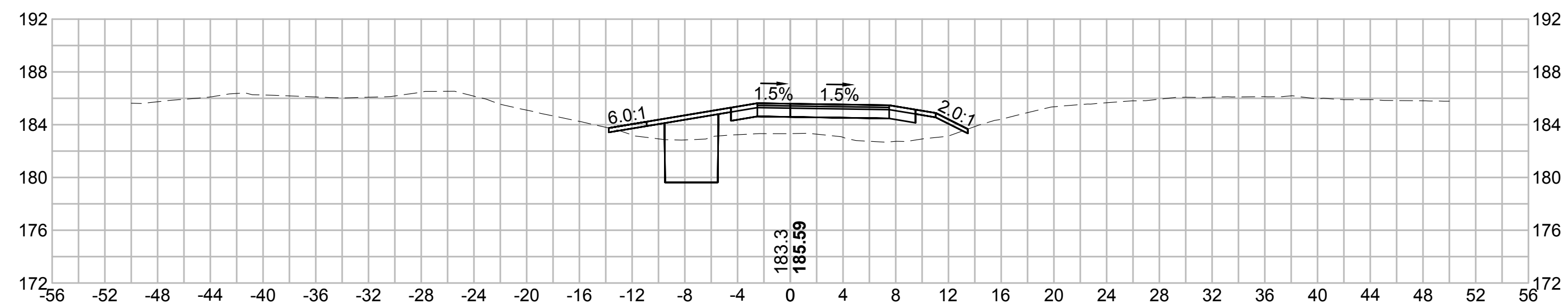
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 2410F316                                     |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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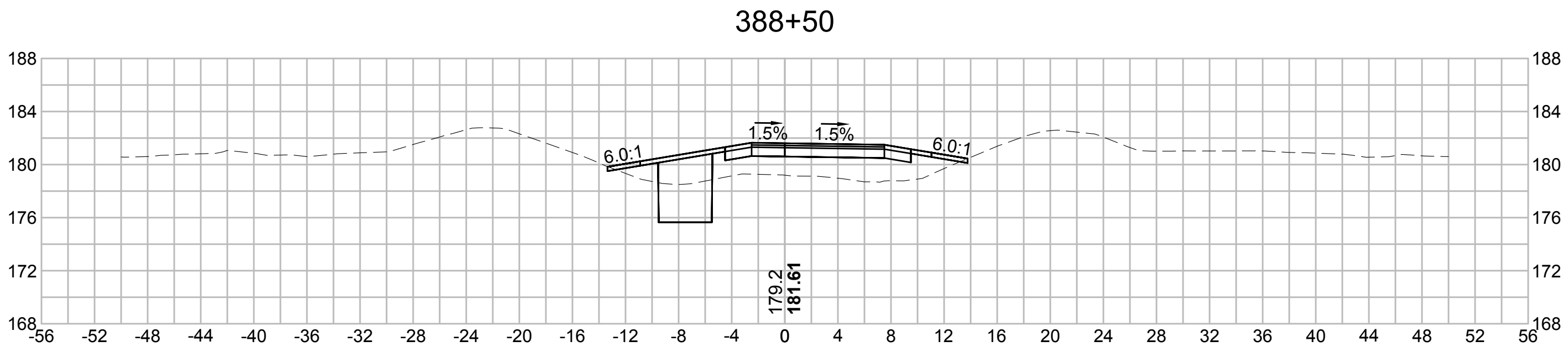
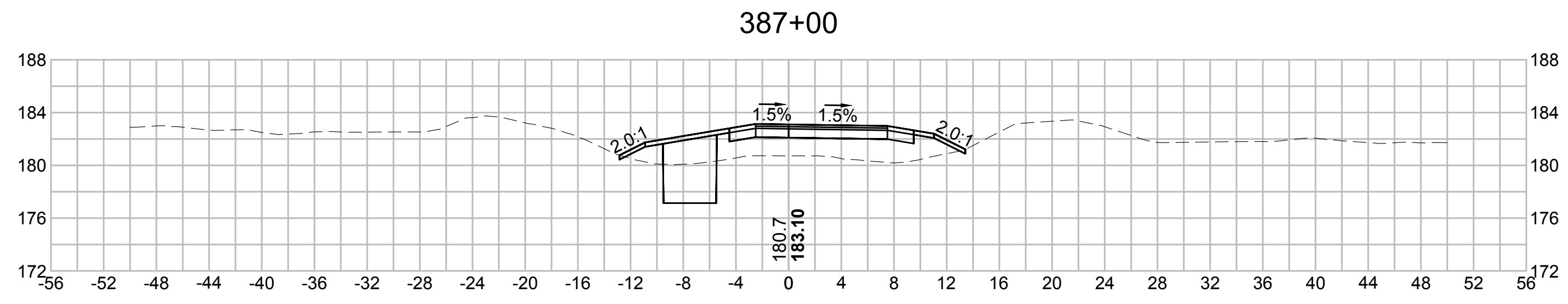
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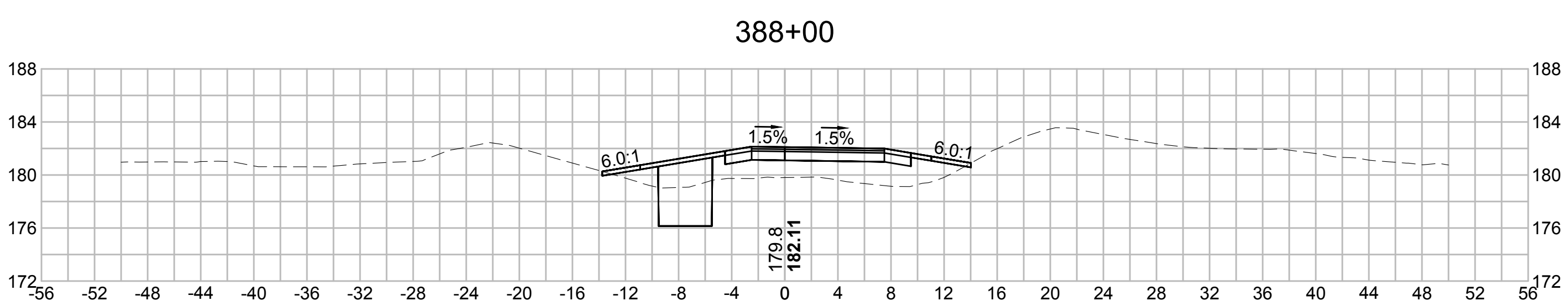
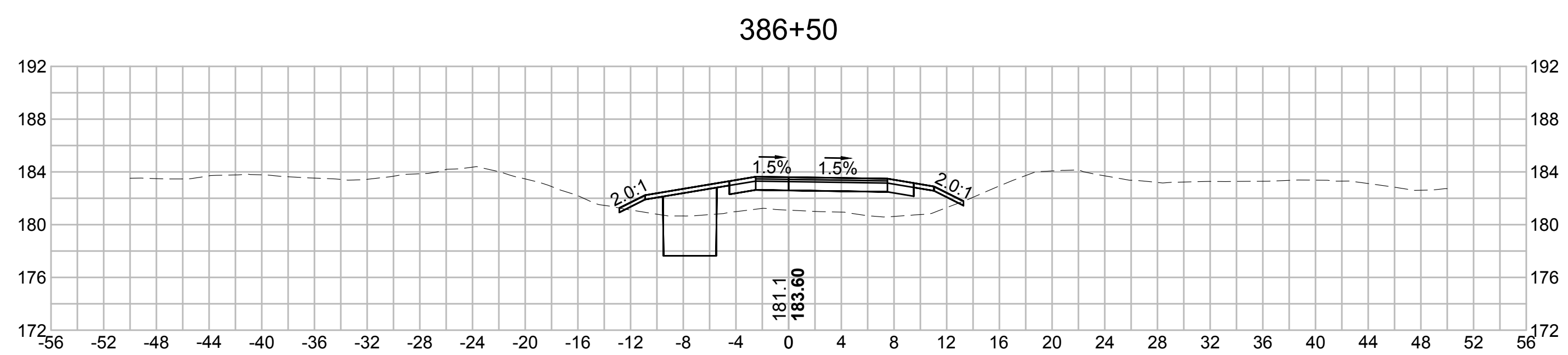


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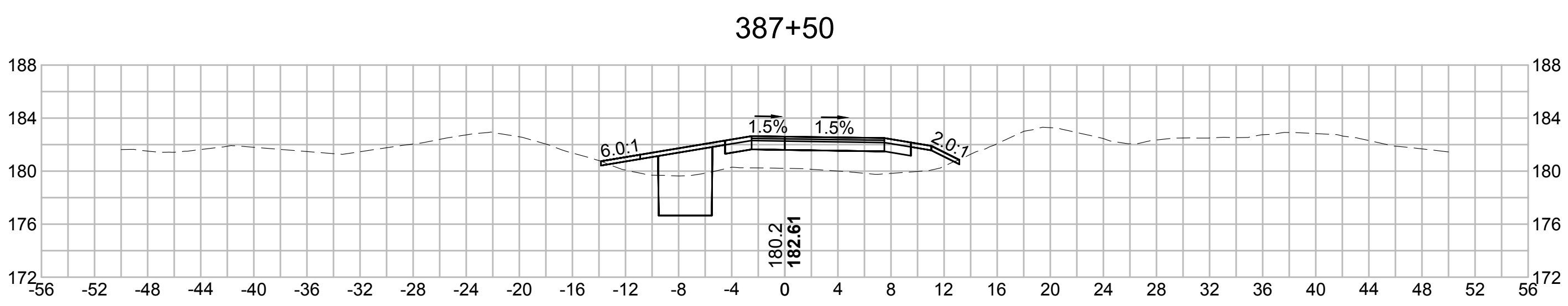
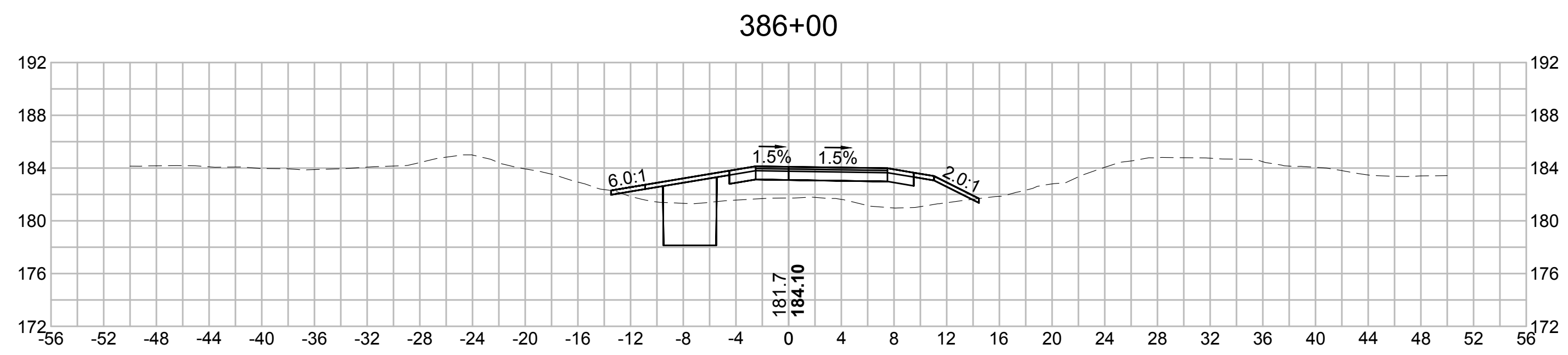


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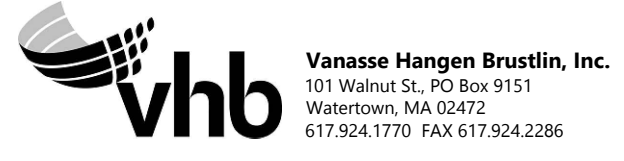
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| N O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
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|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 242 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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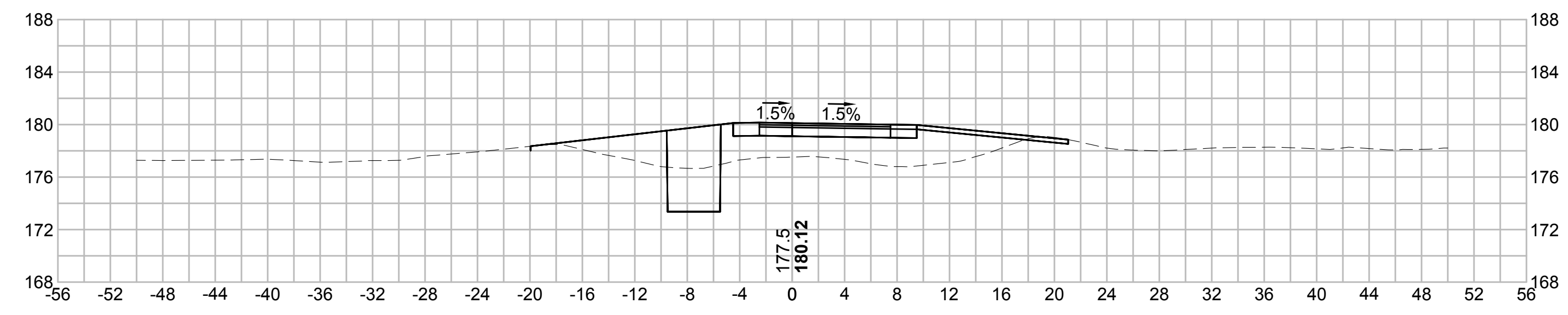
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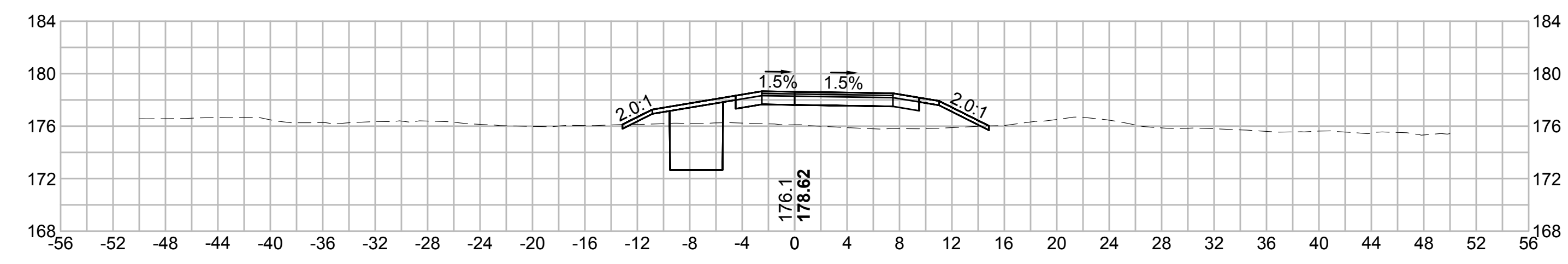
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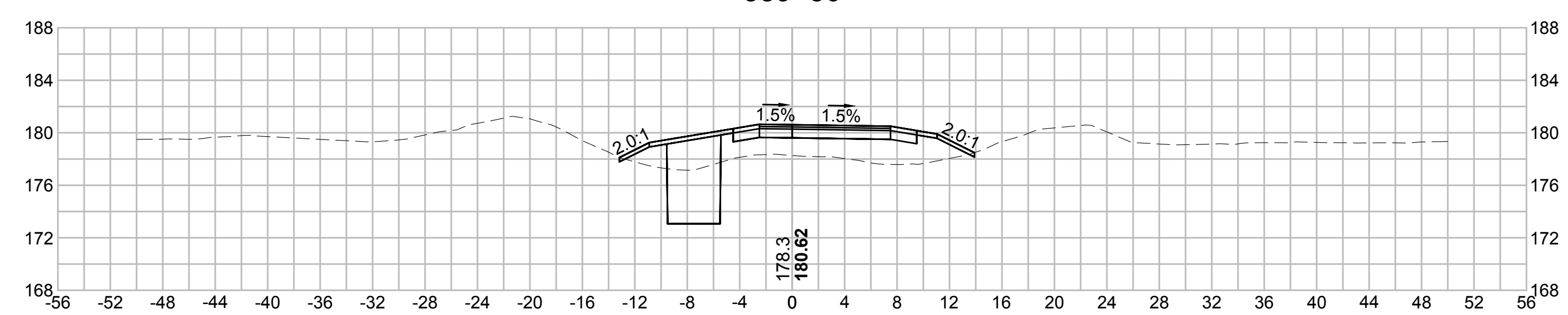
390+00



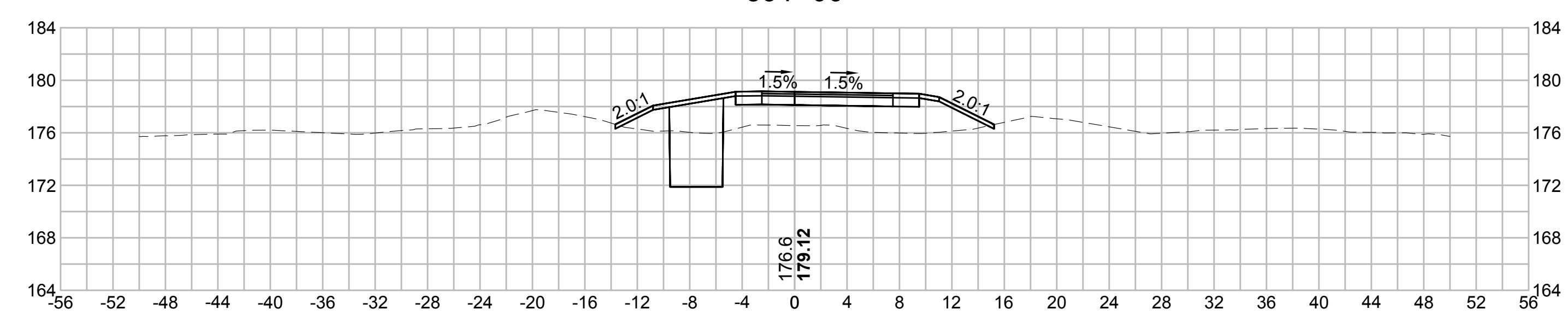
391+50



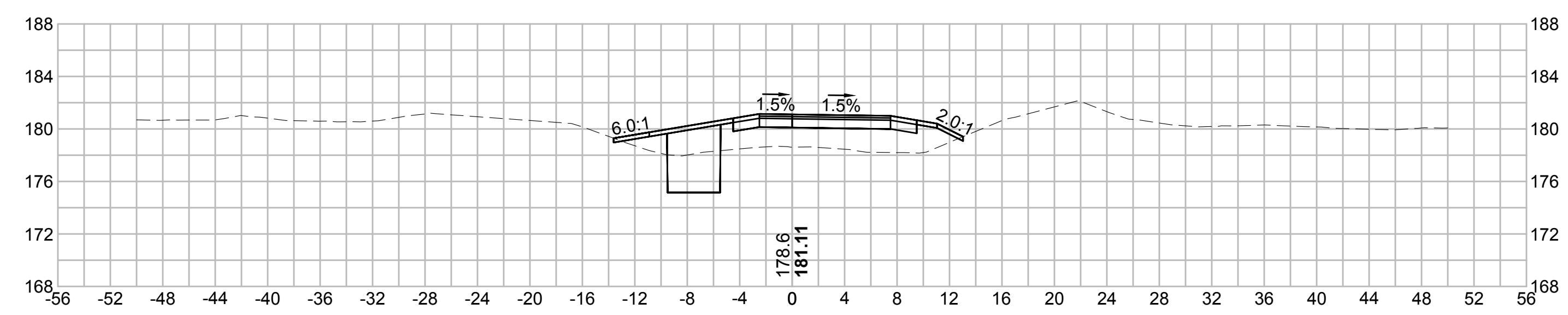
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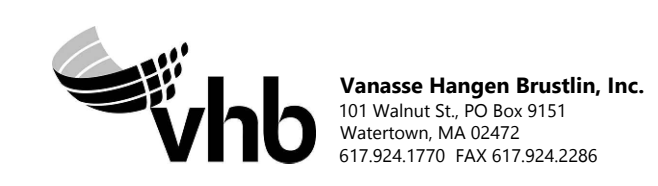
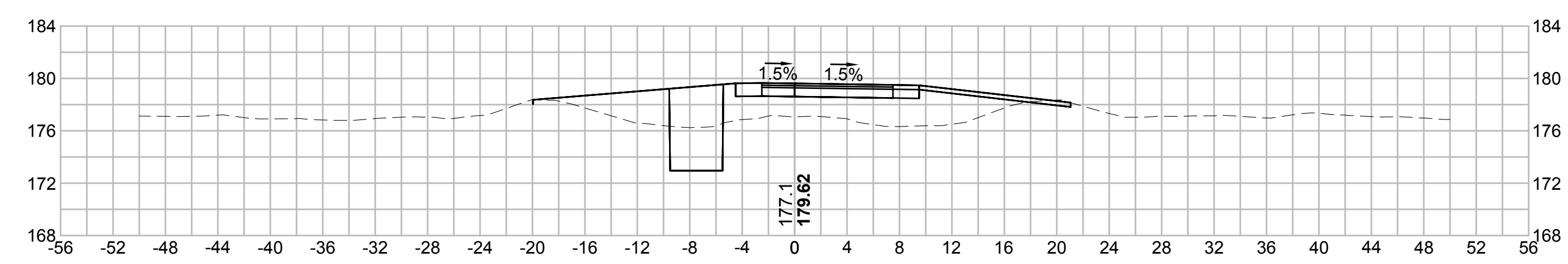
391+00



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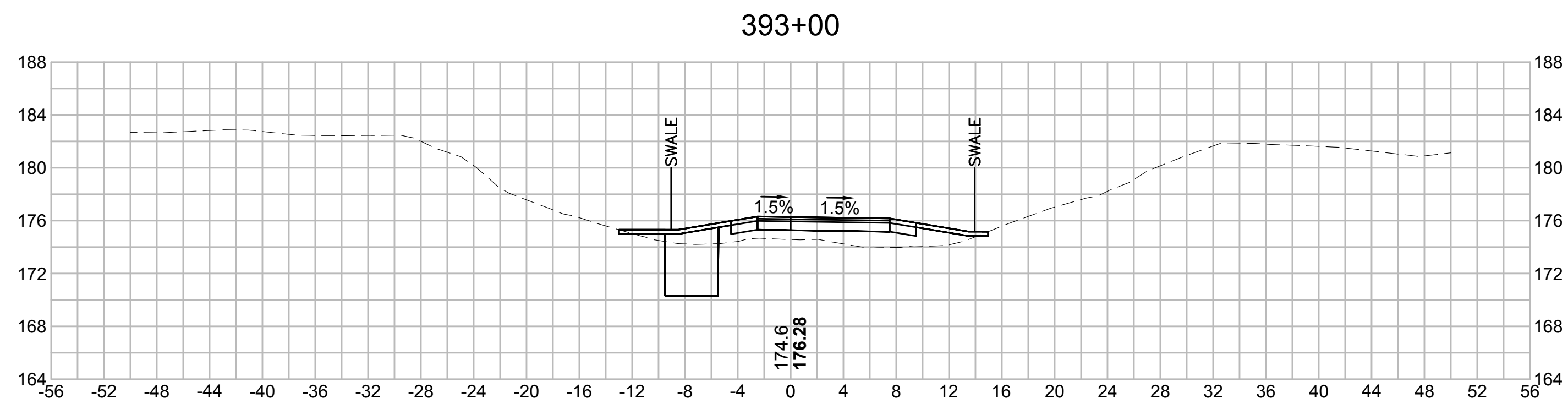


| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
|   | REVISION          |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 243 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

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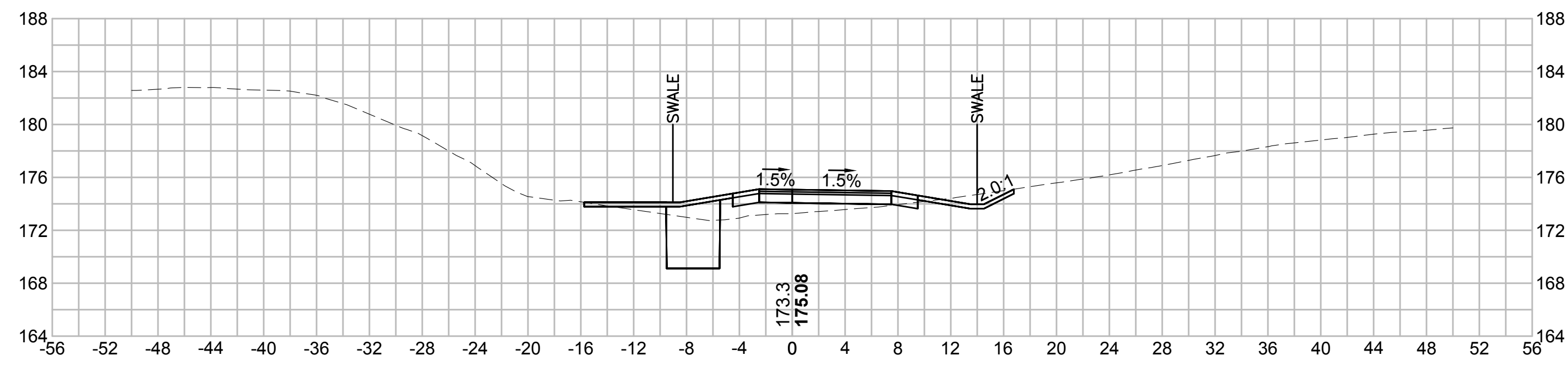
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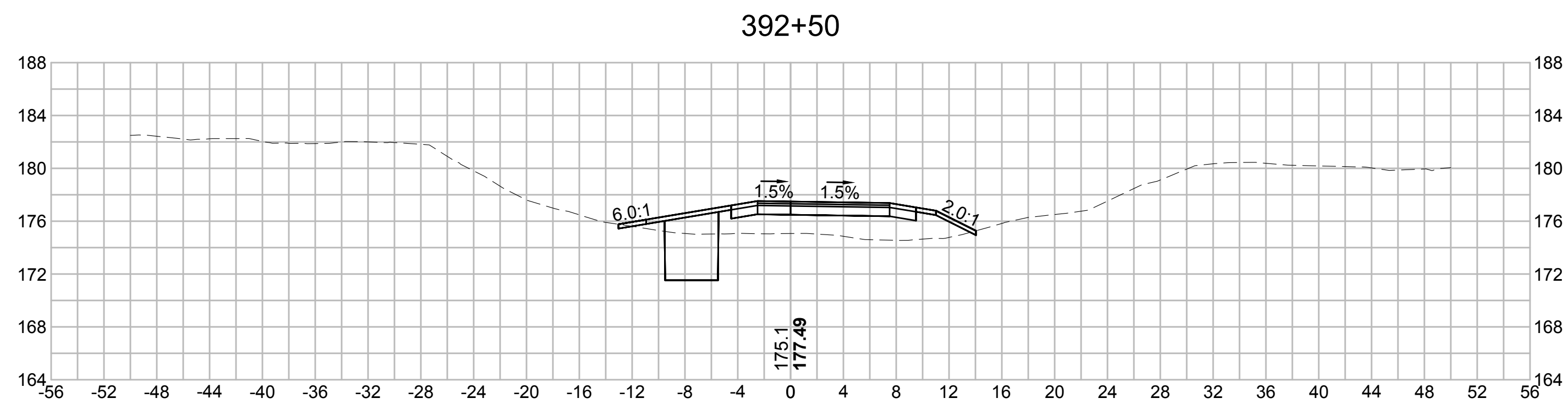
394+50



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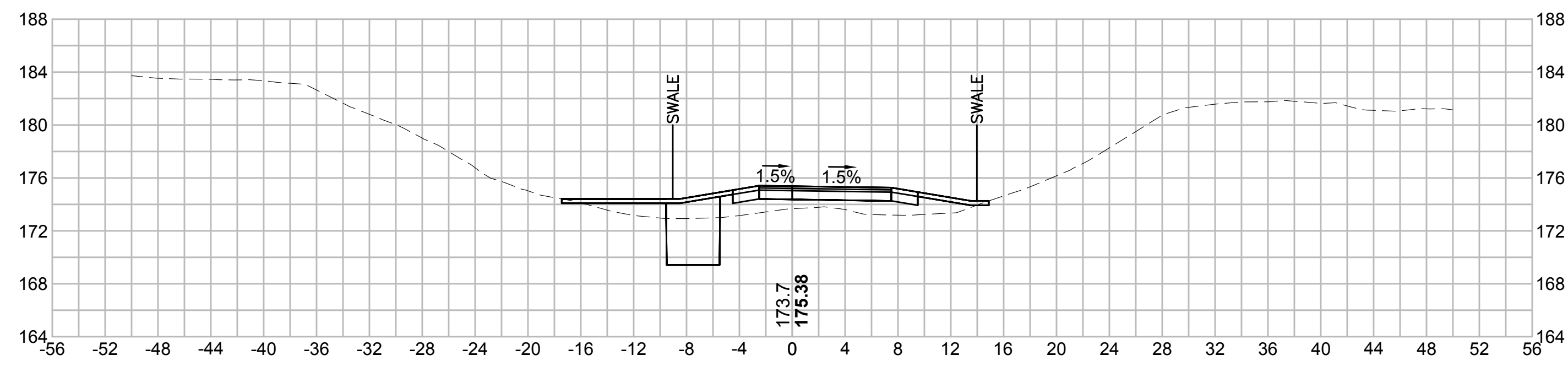
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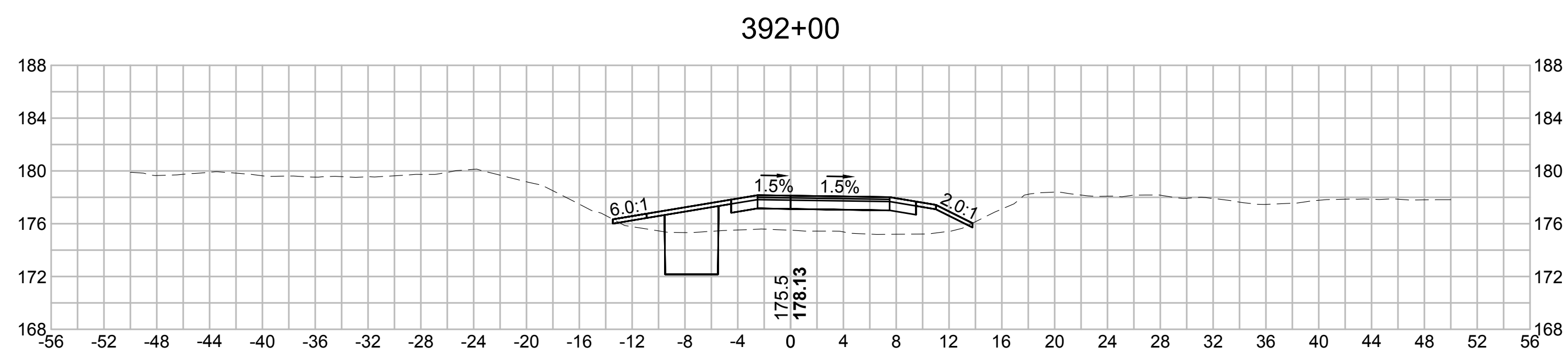
394+00



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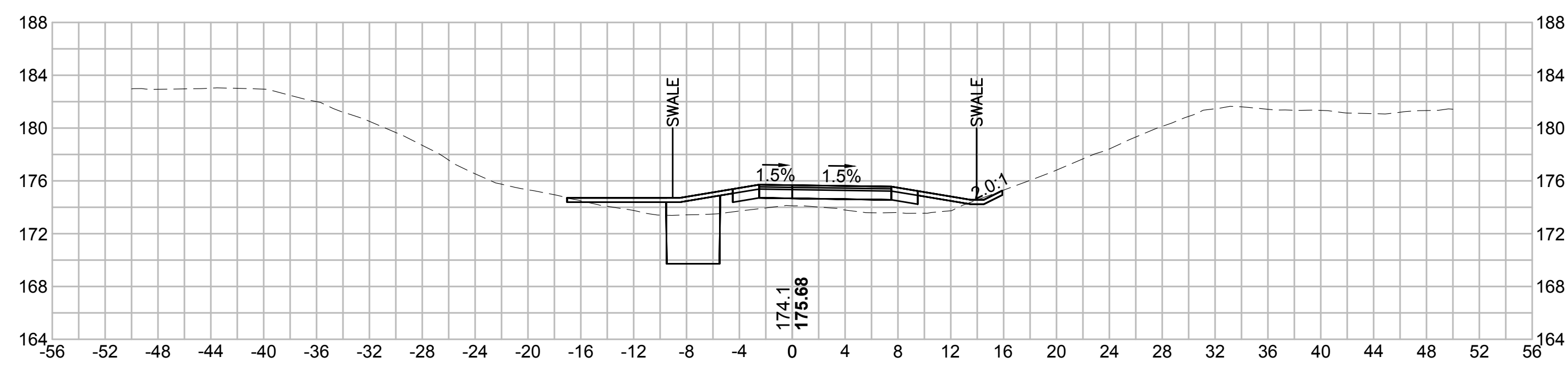
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
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|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 244 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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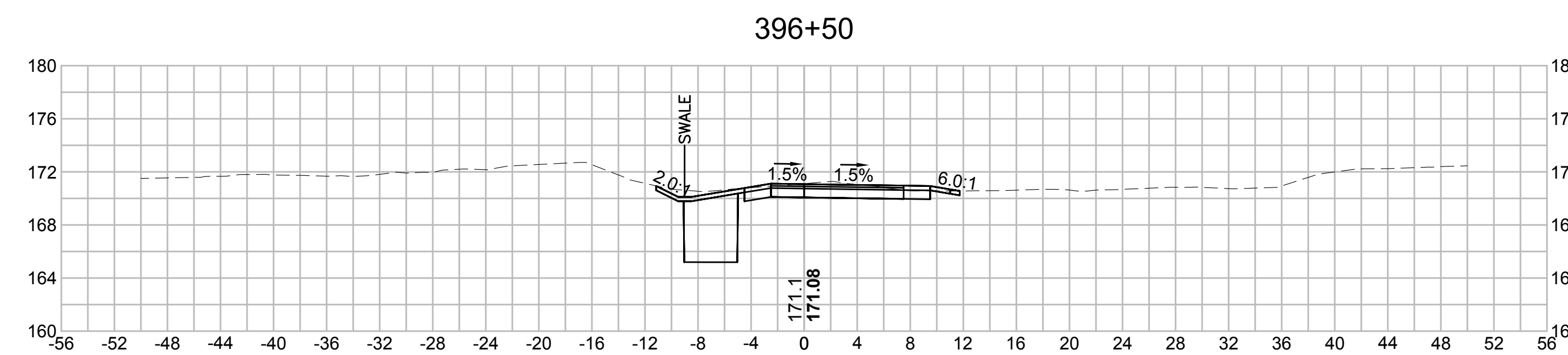
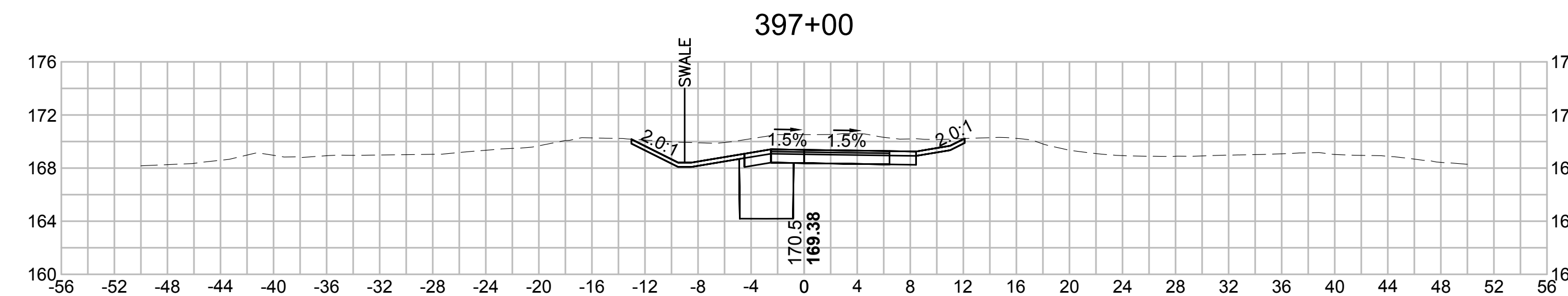
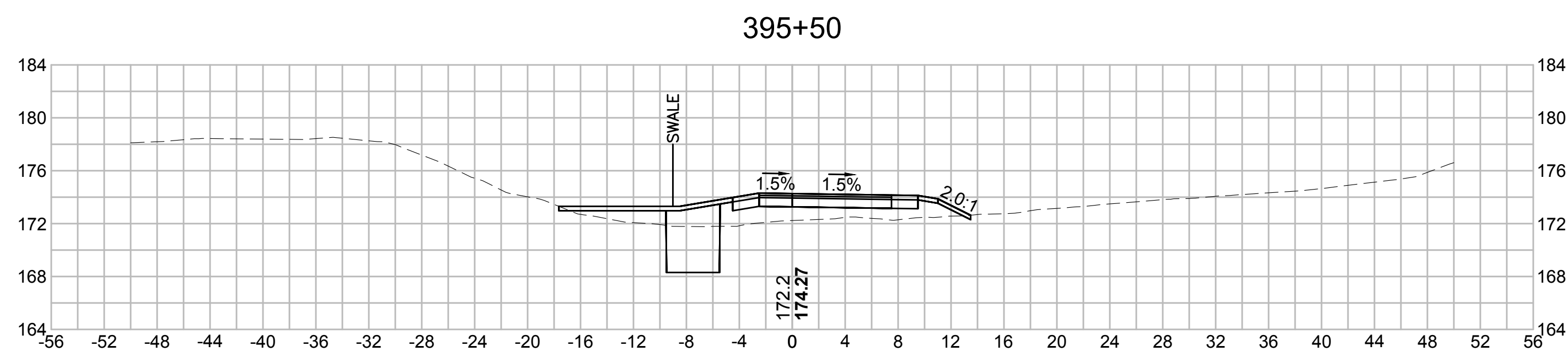
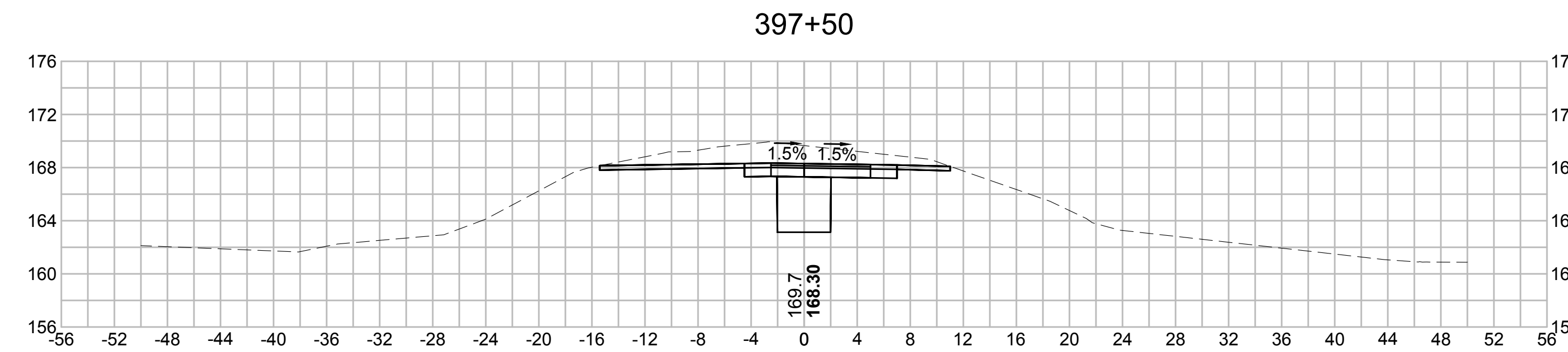
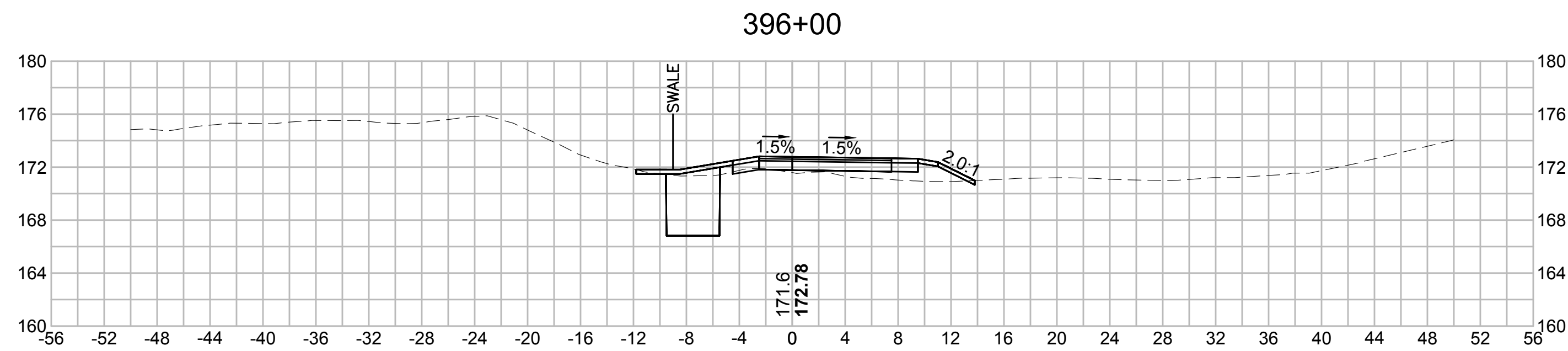
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BLSF CROSSING STA 398 TO STA 403 - FEMA ZONE AE - HOP BROOK

FEMA ELEVATION: 161.0'

FILL:

160'-161': 0.95 CY

159'-160': 0.33 CY

CUT:

160'-161': 4.04 CY

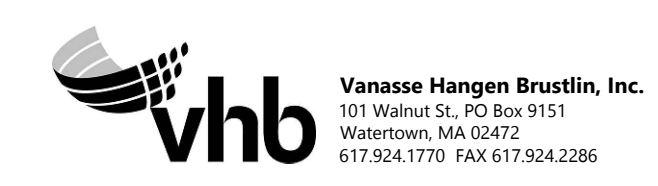
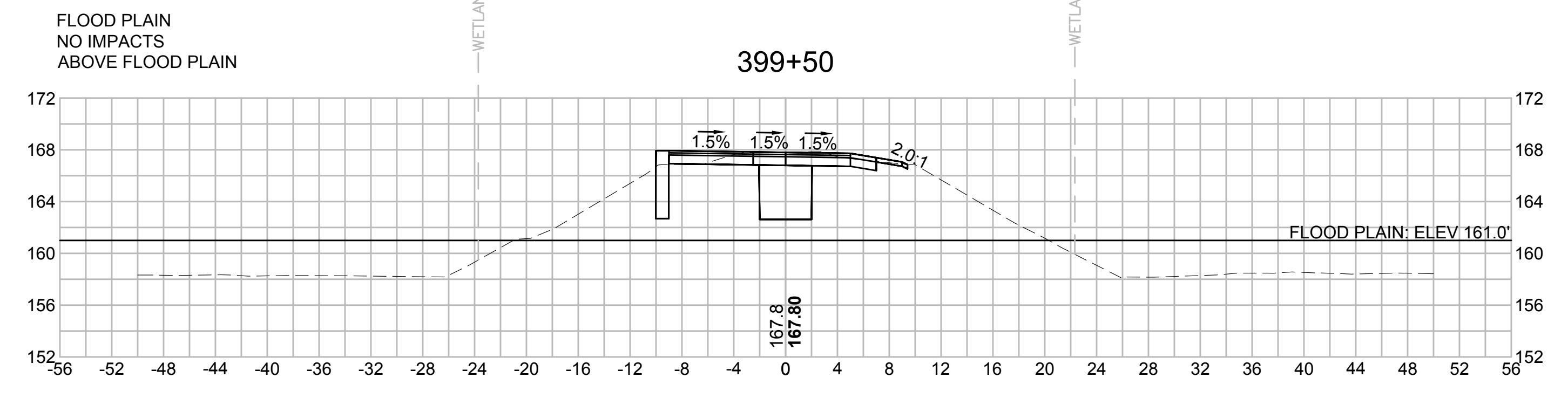
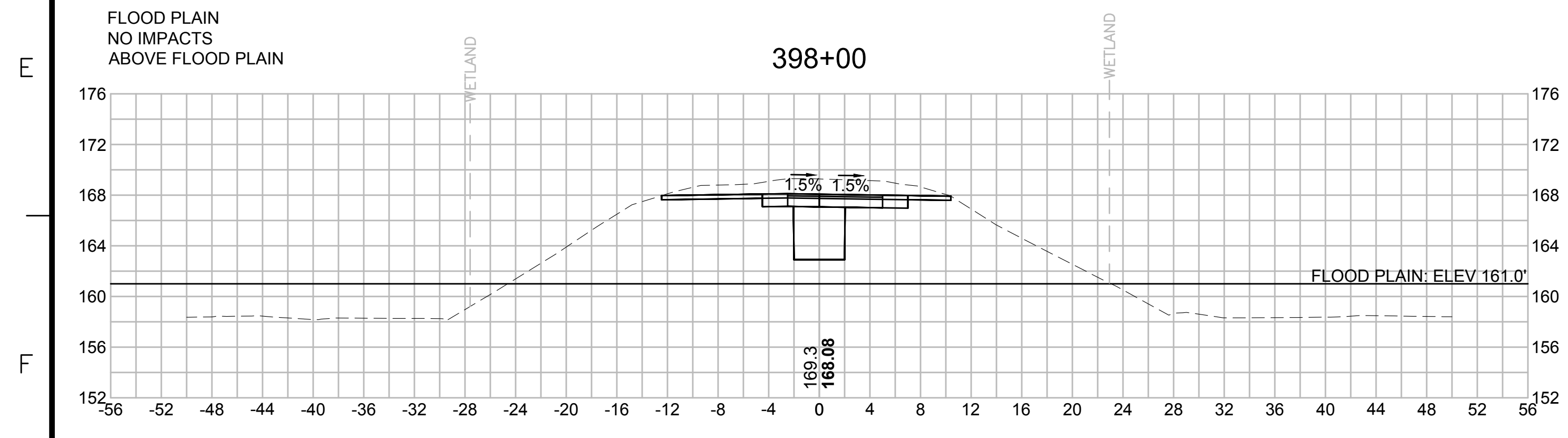
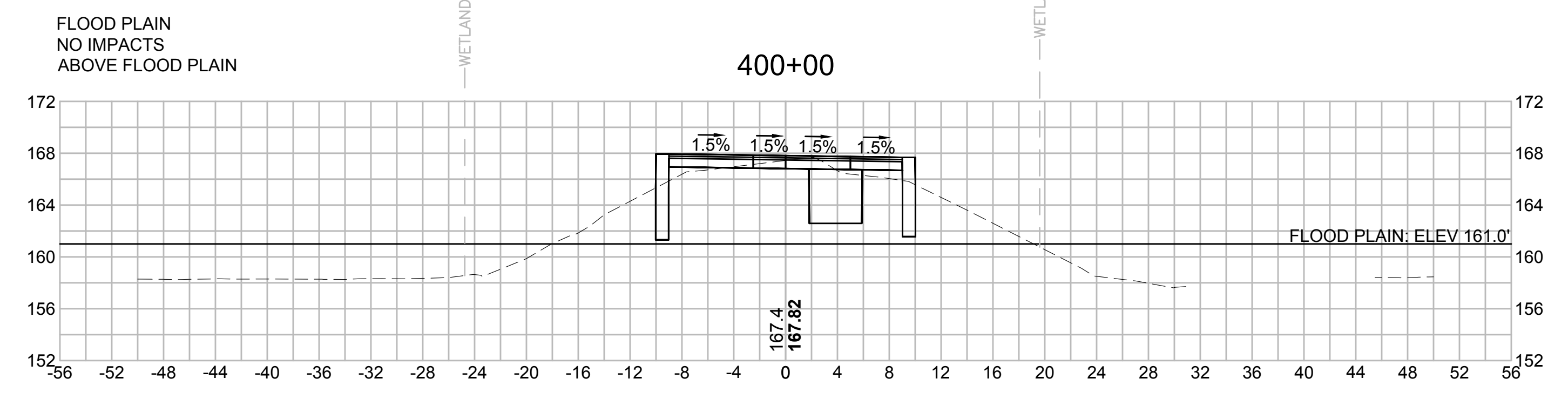
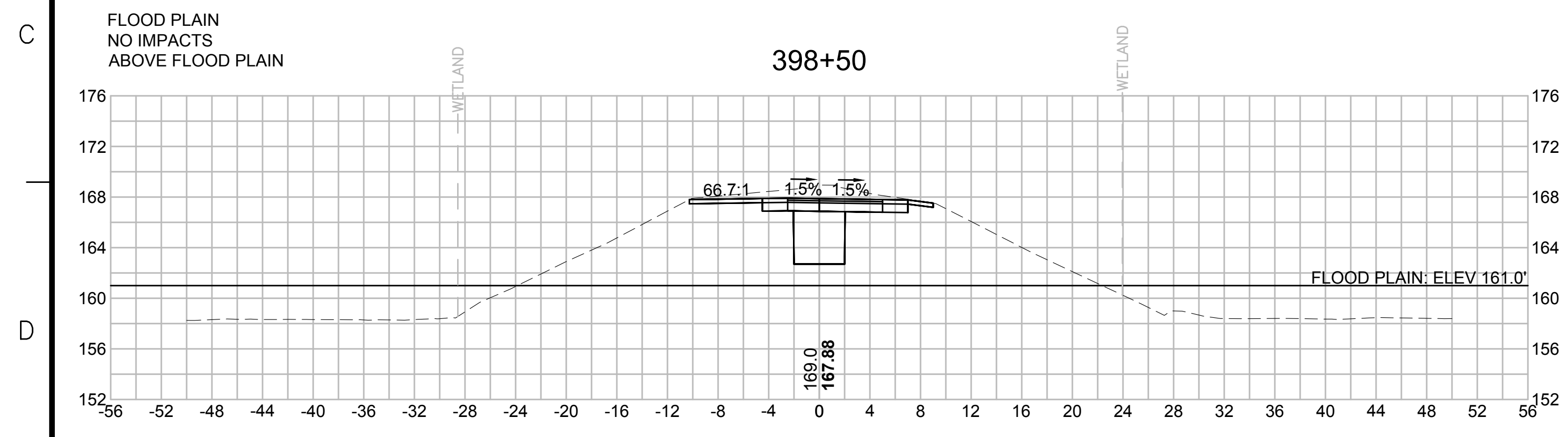
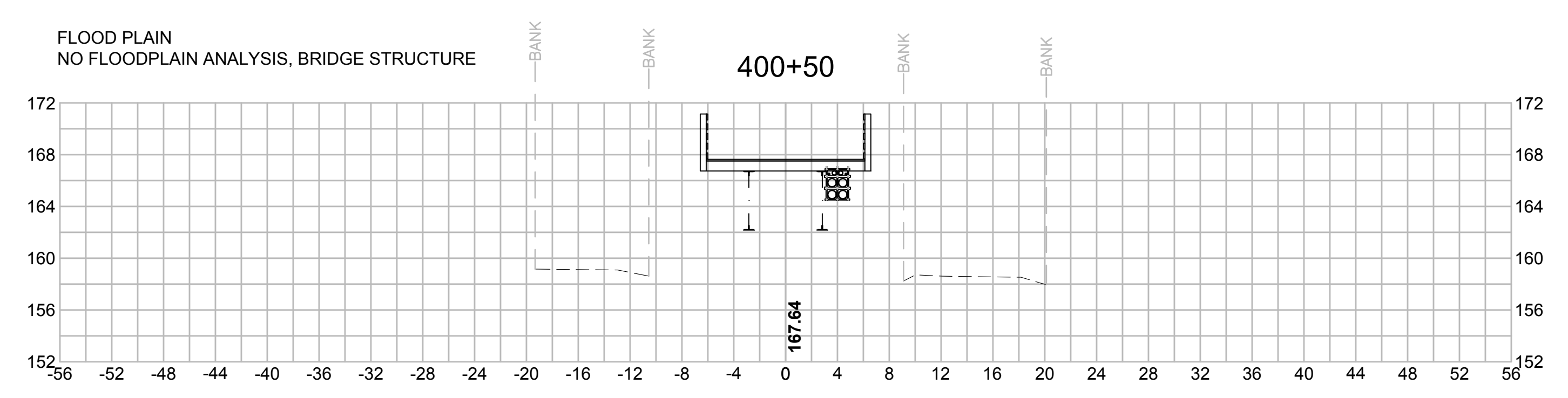
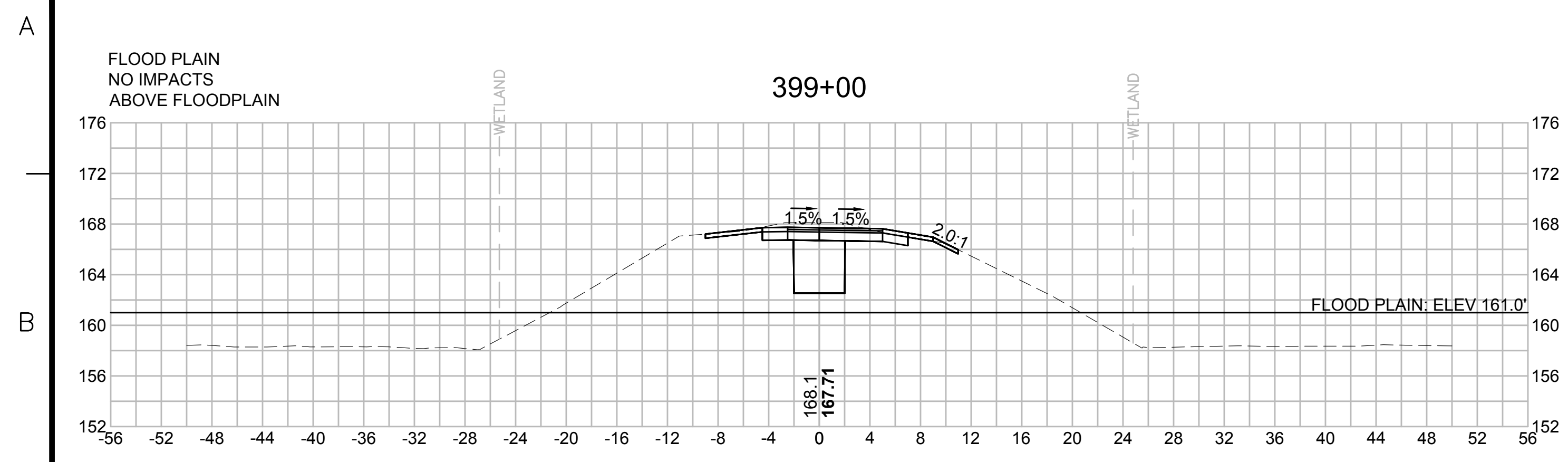
159'-160': 1.17 CY



| N.O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
|   | REVISION          |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 245 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

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1 2 3 4 5 6 7 8 9 10 11



| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 246 OF 316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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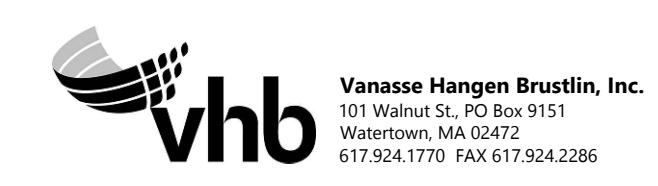
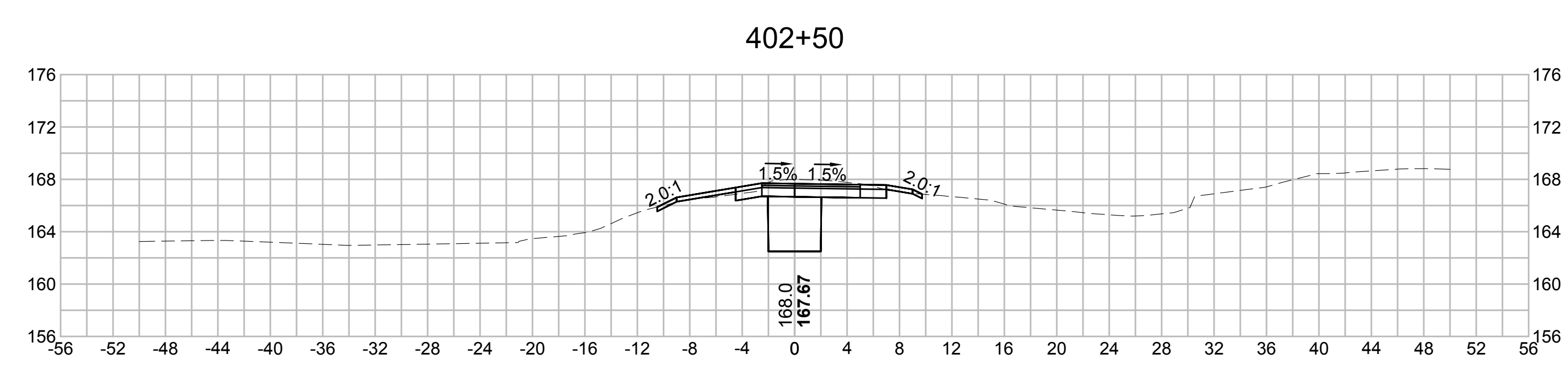
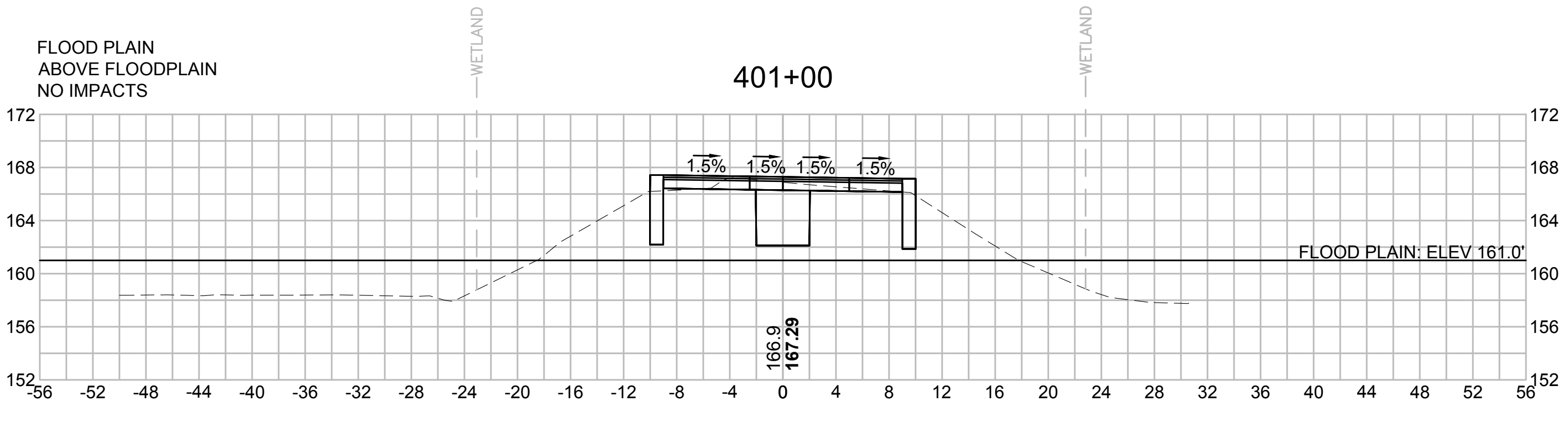
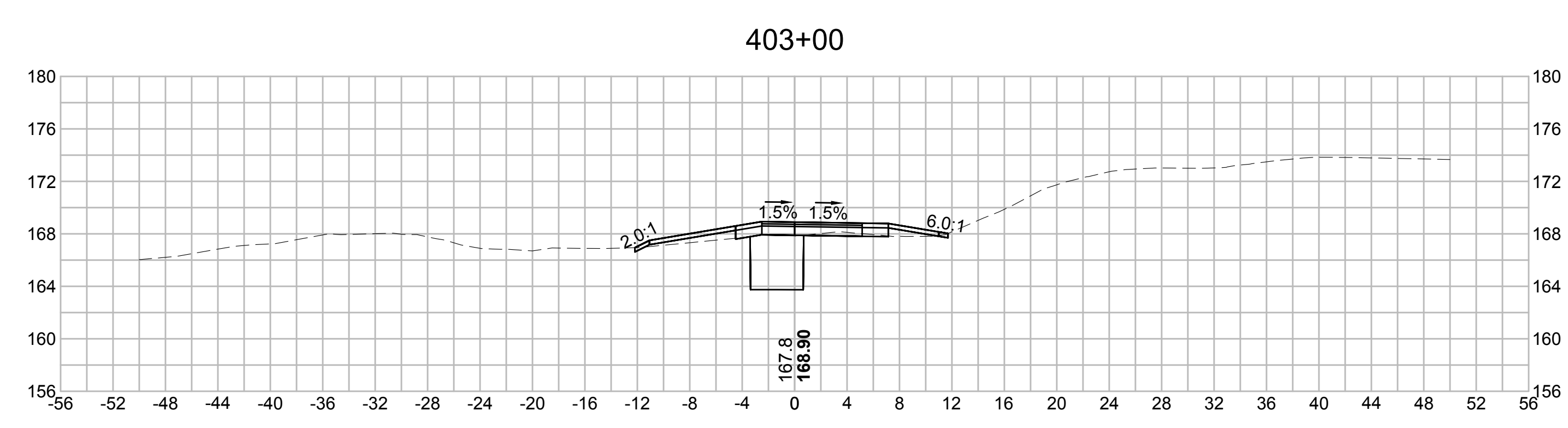
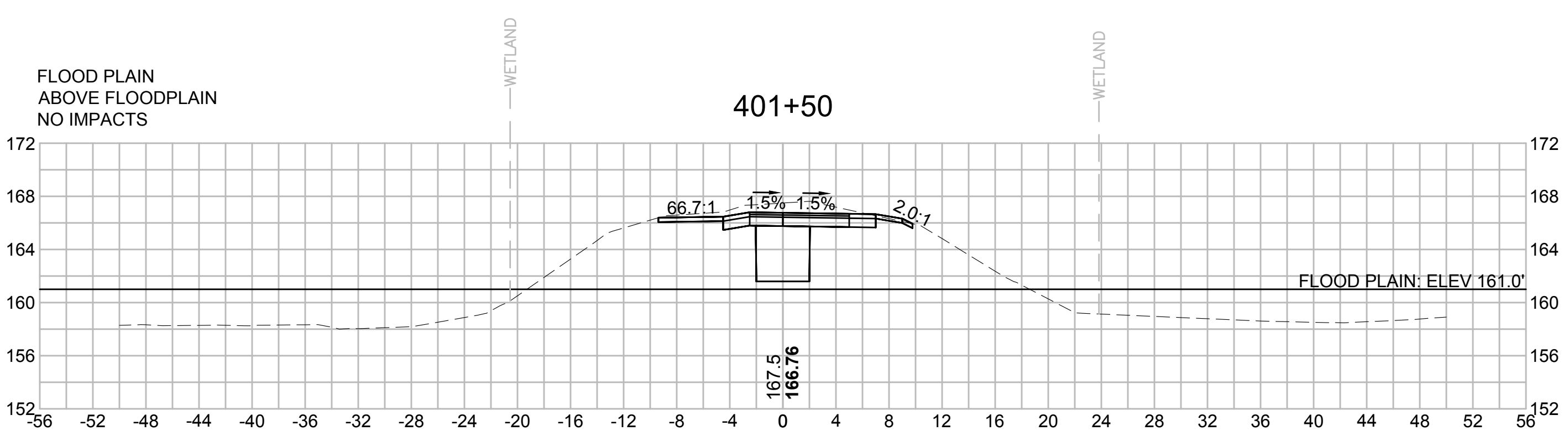
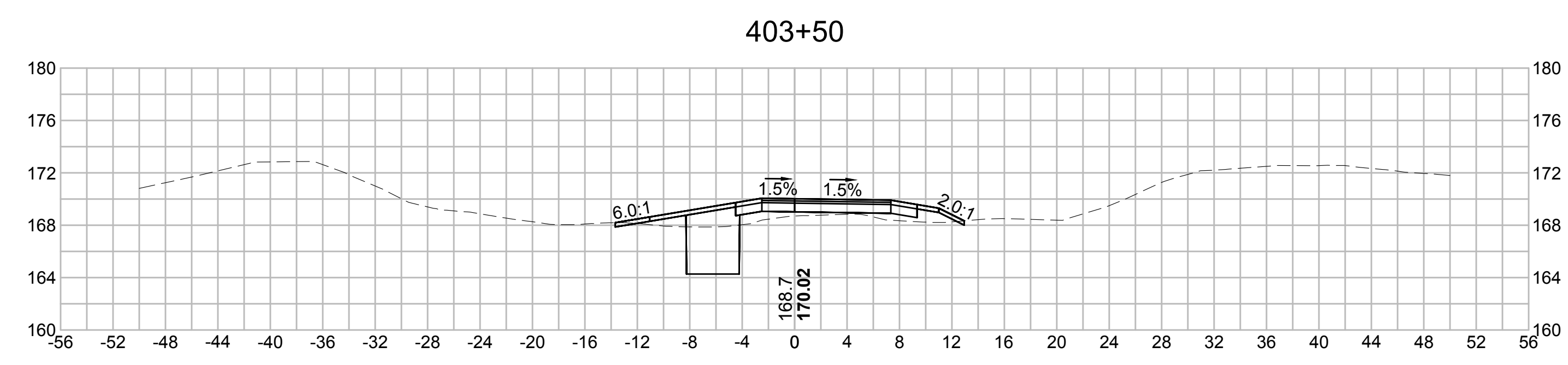
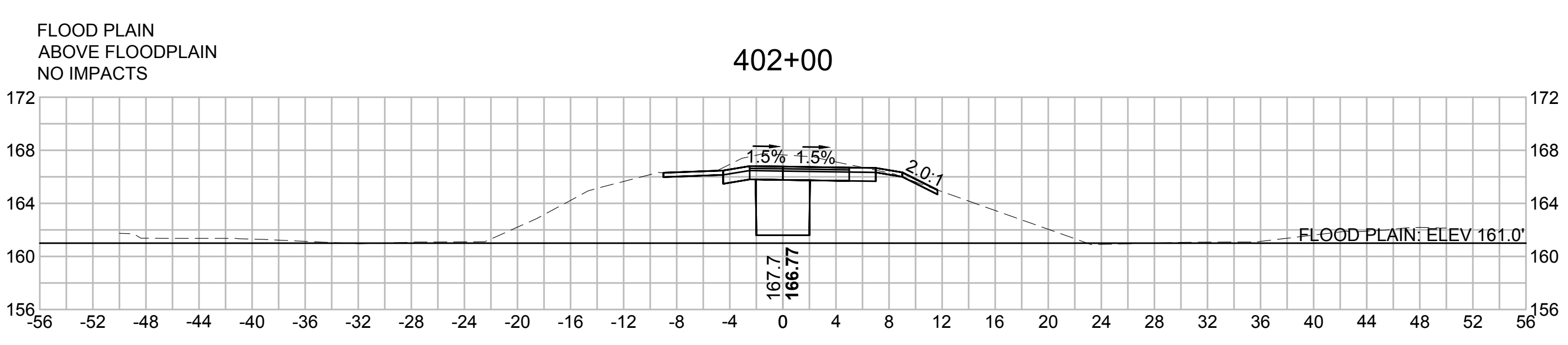
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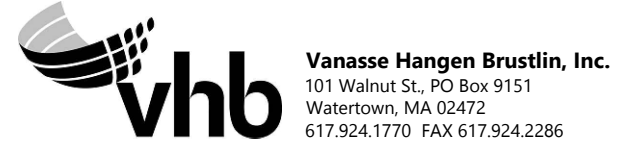
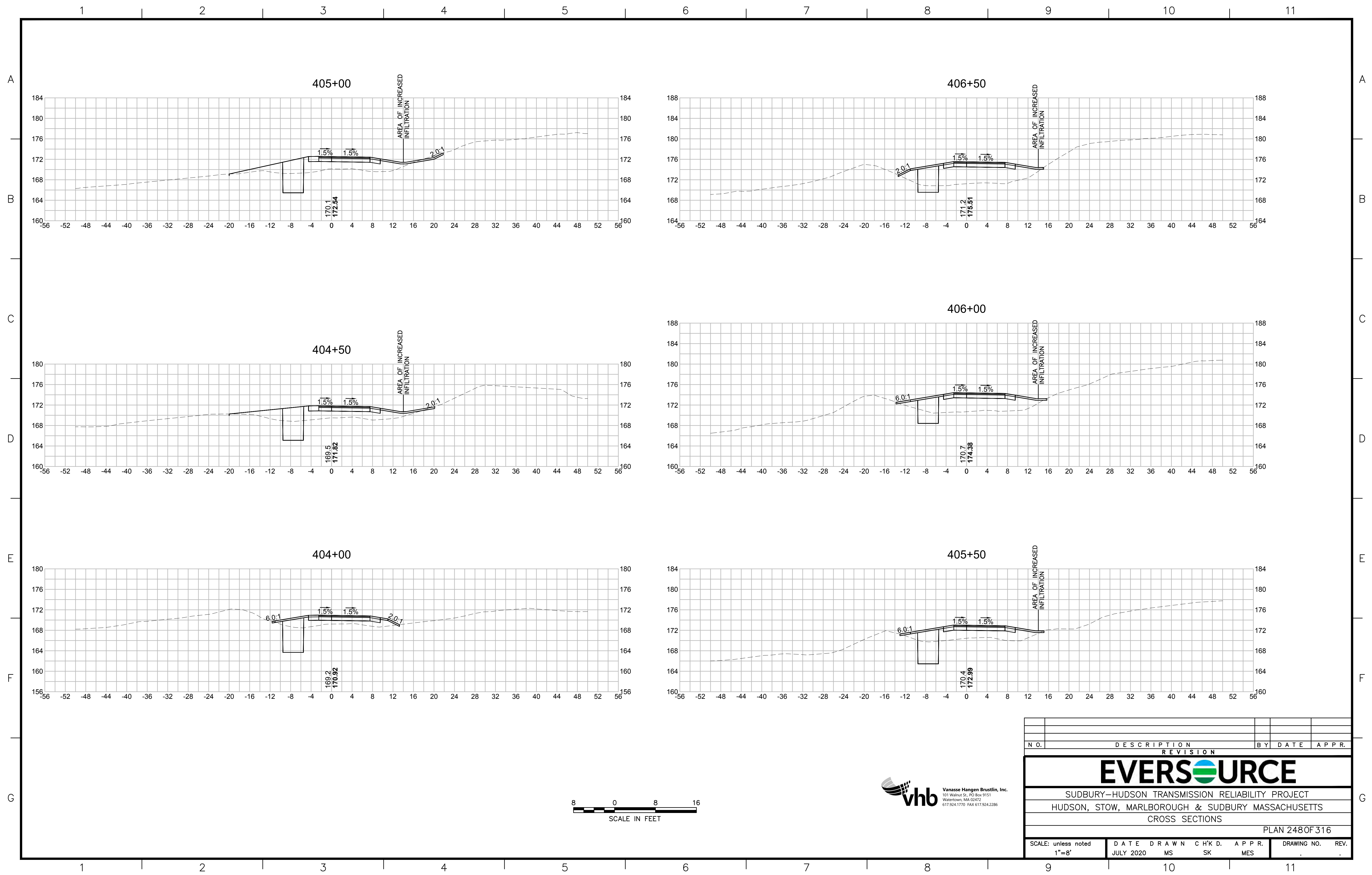
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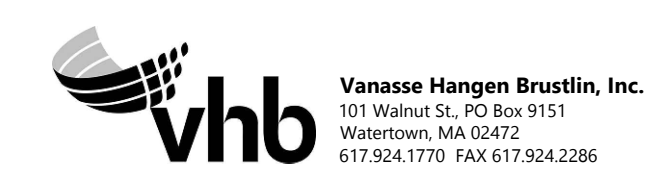
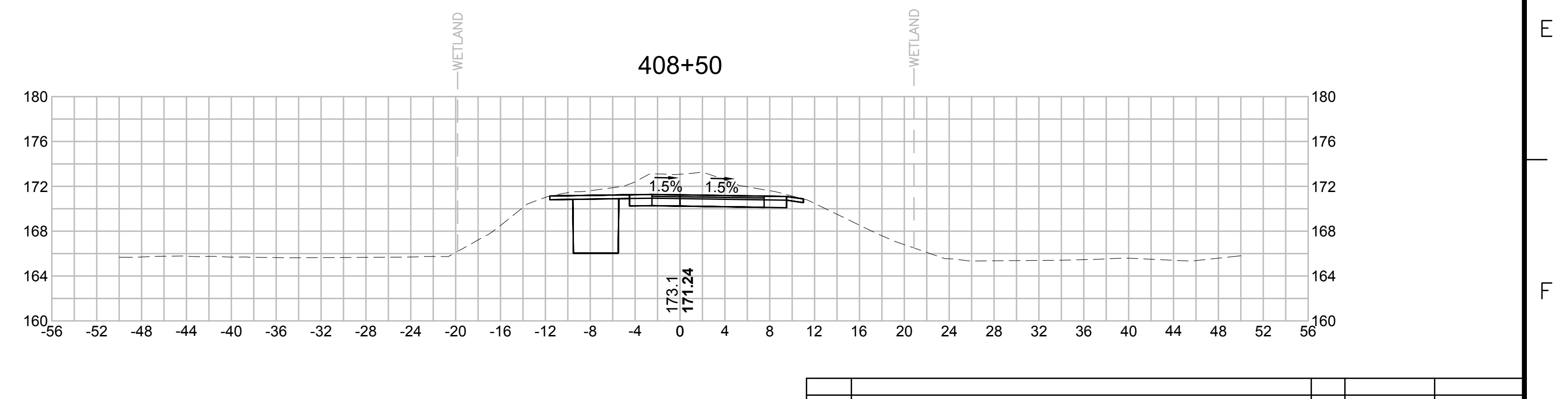
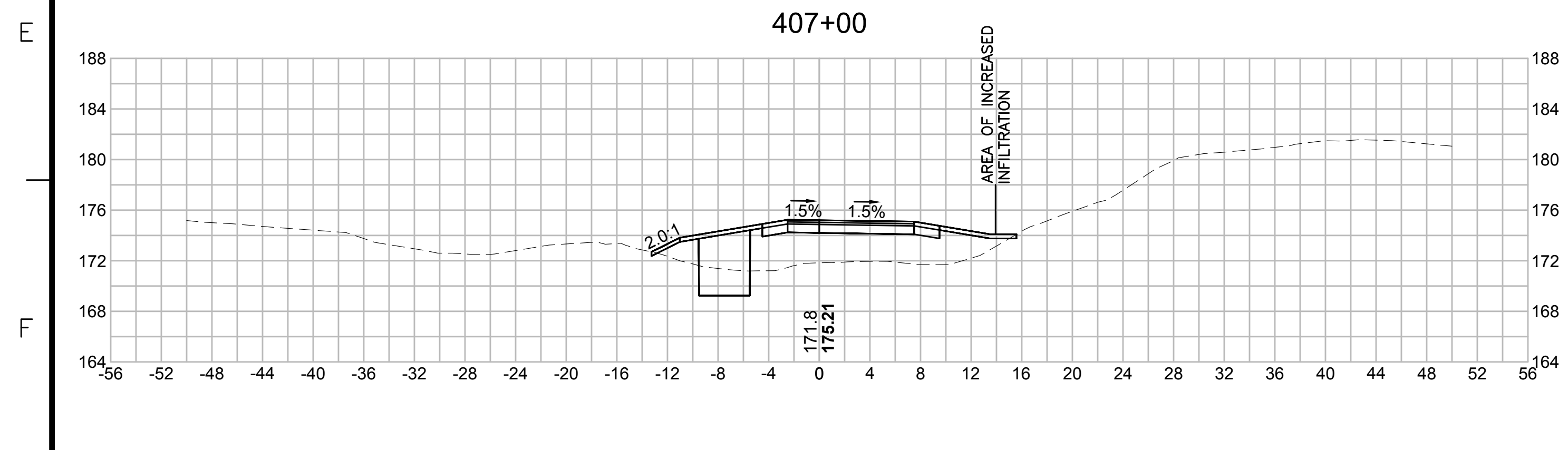
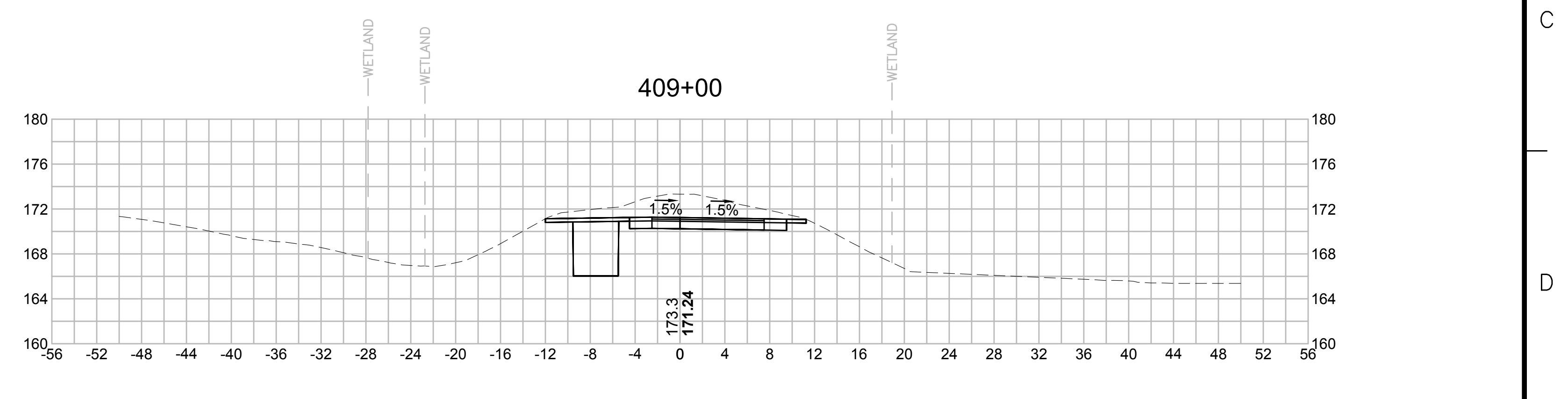
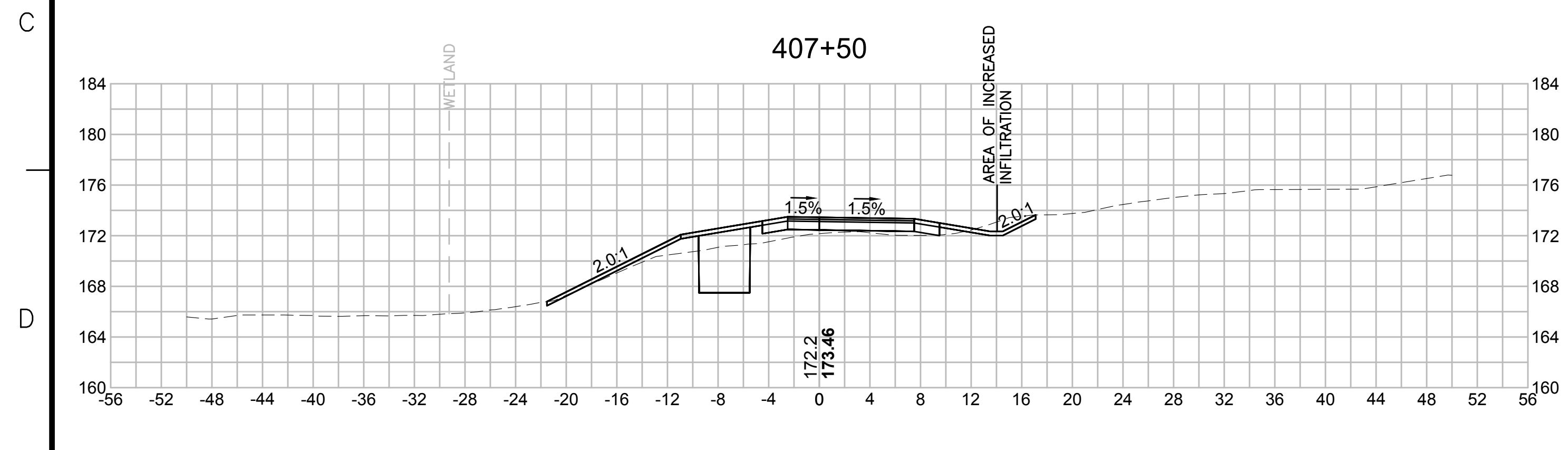
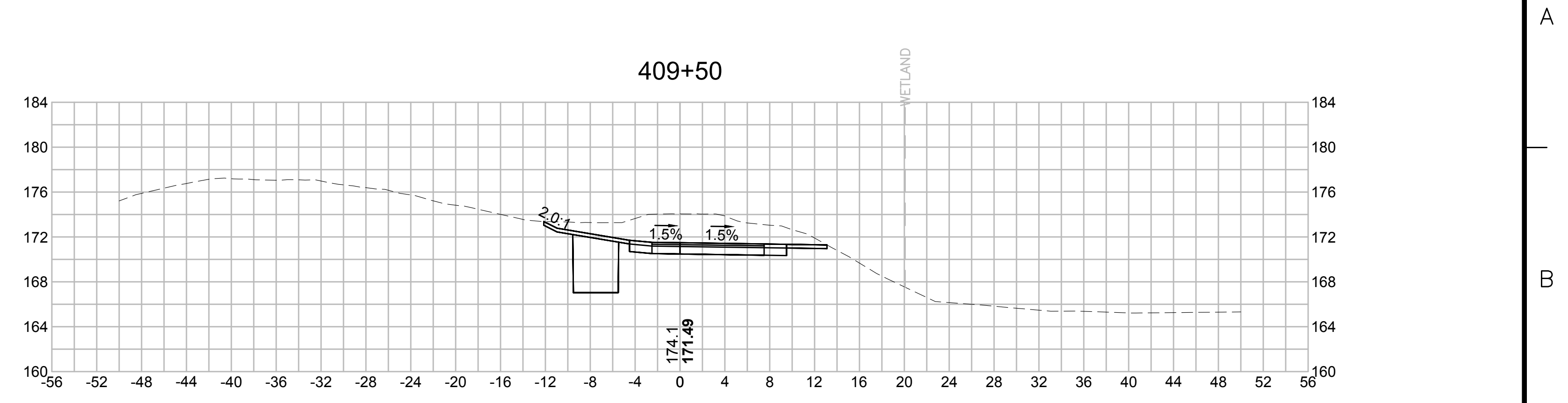
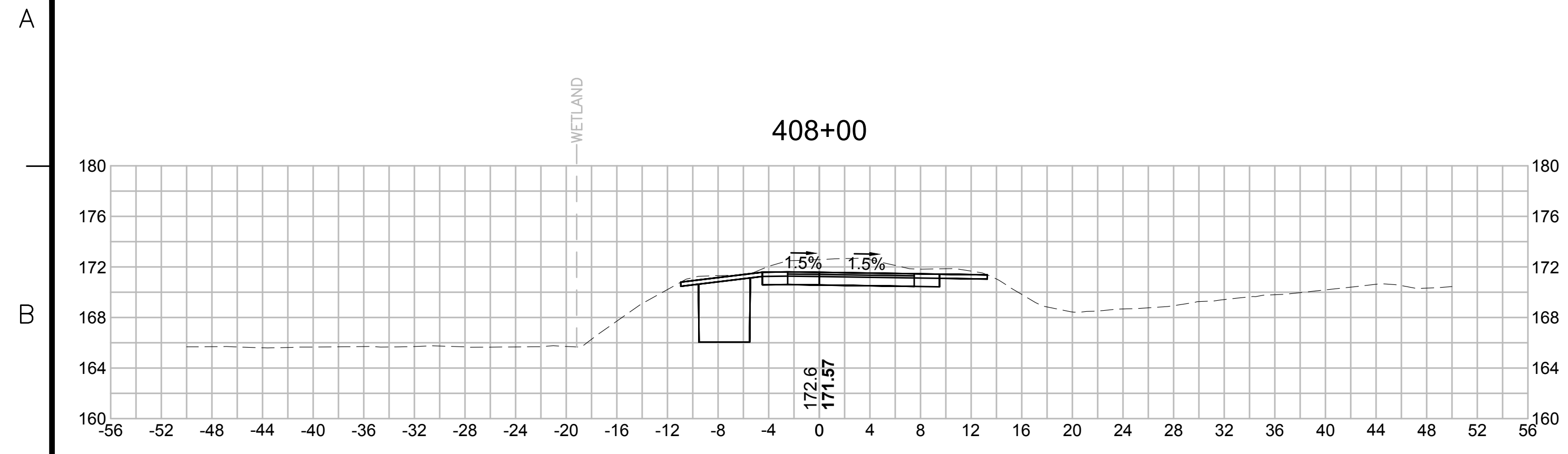
| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 247 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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| N O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 248 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 249 OF 316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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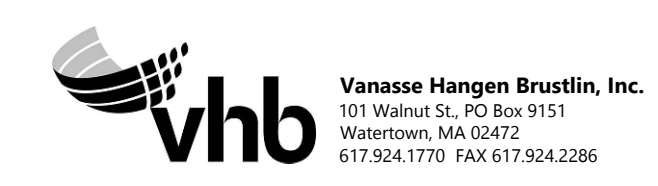
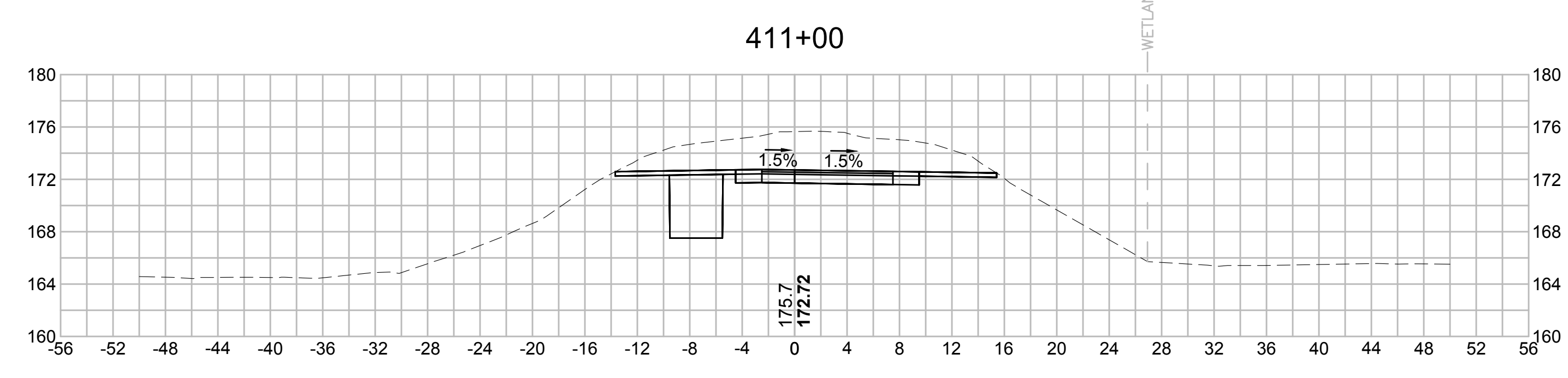
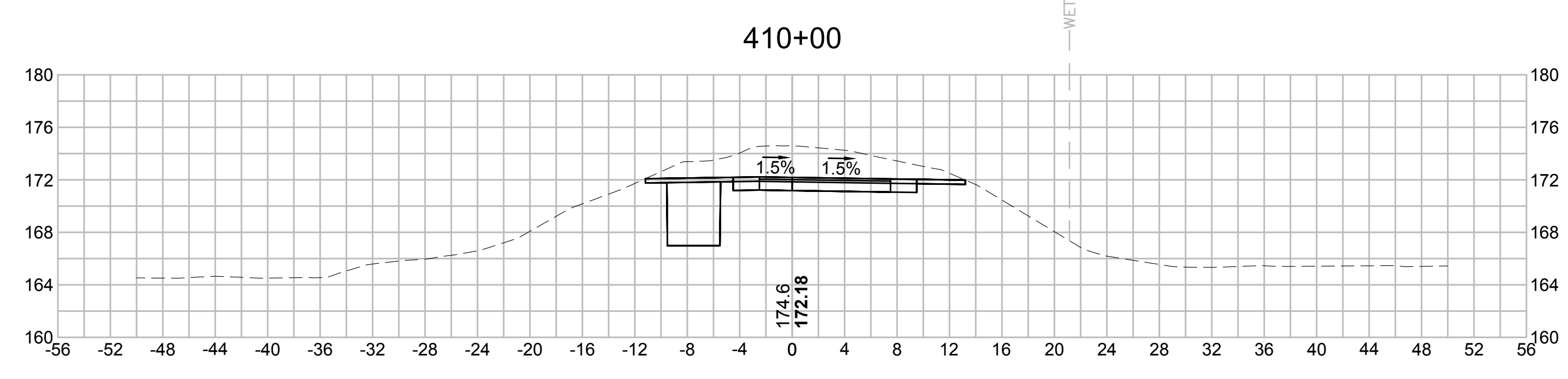
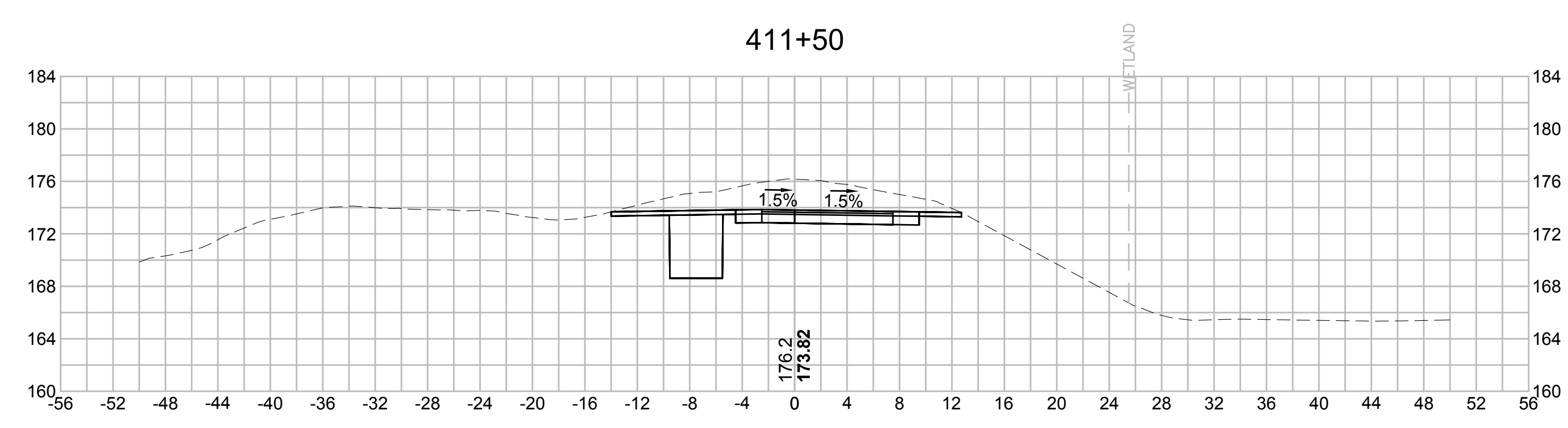
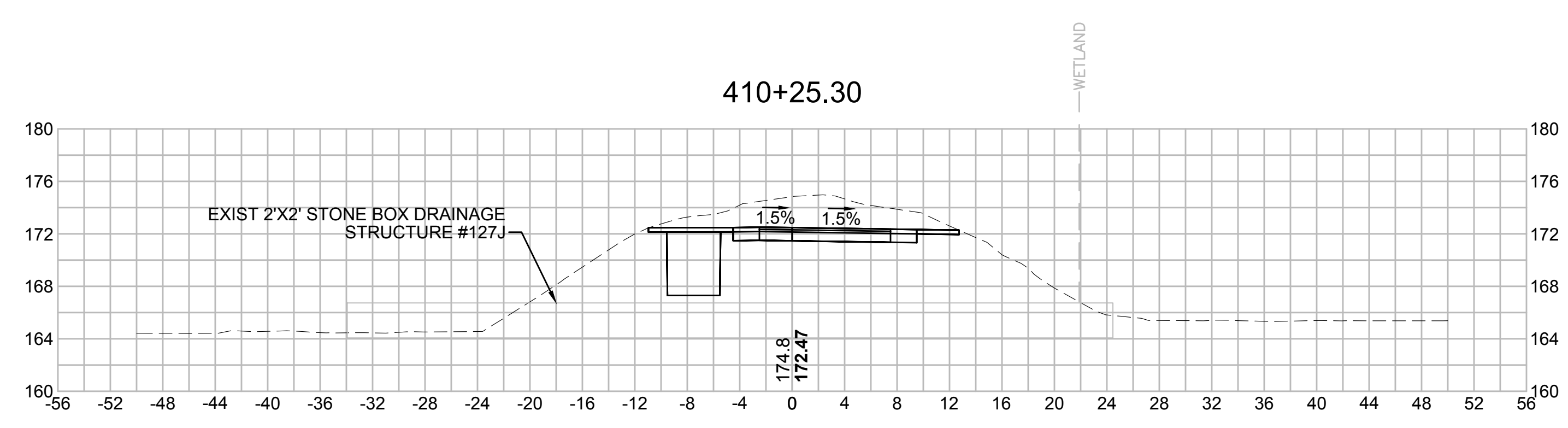
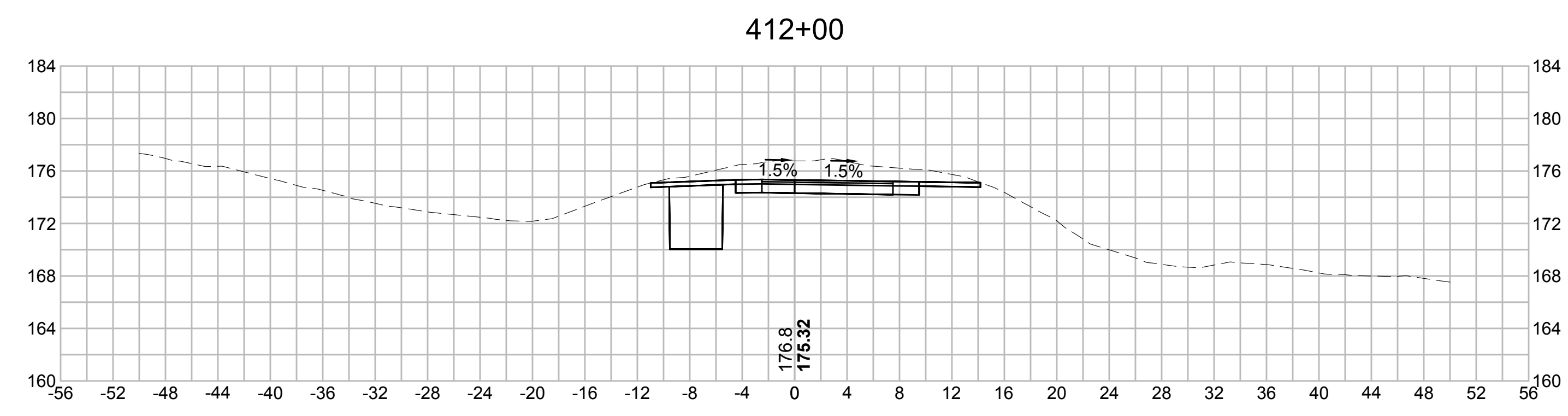
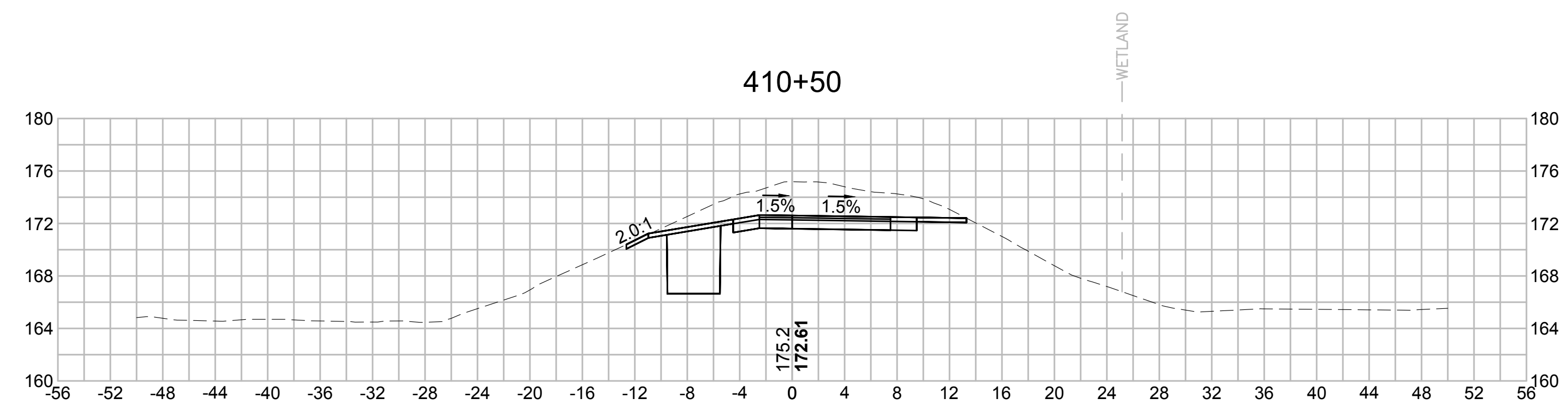
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 2500F316                                     |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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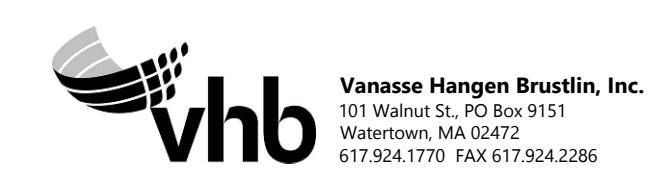
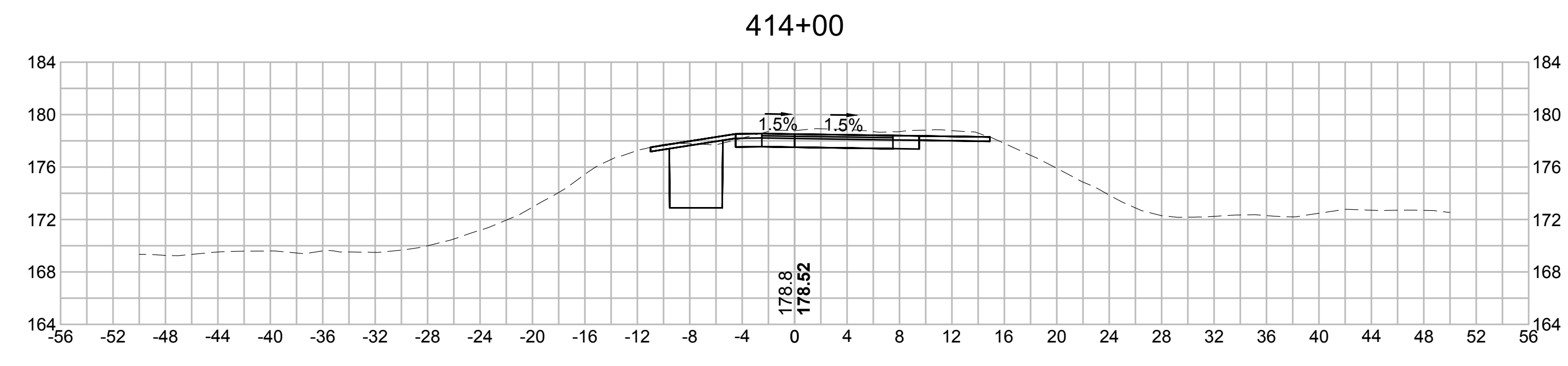
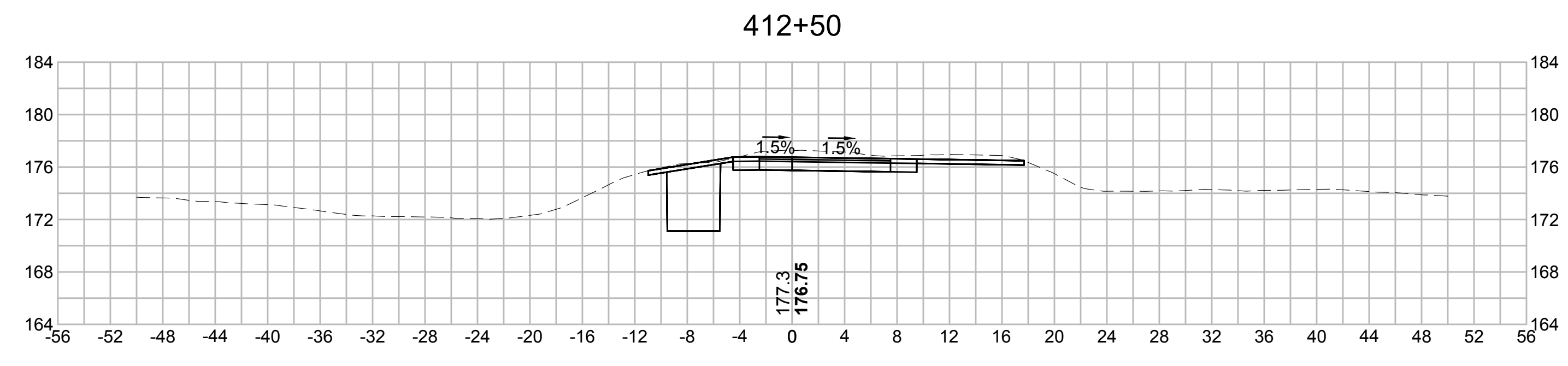
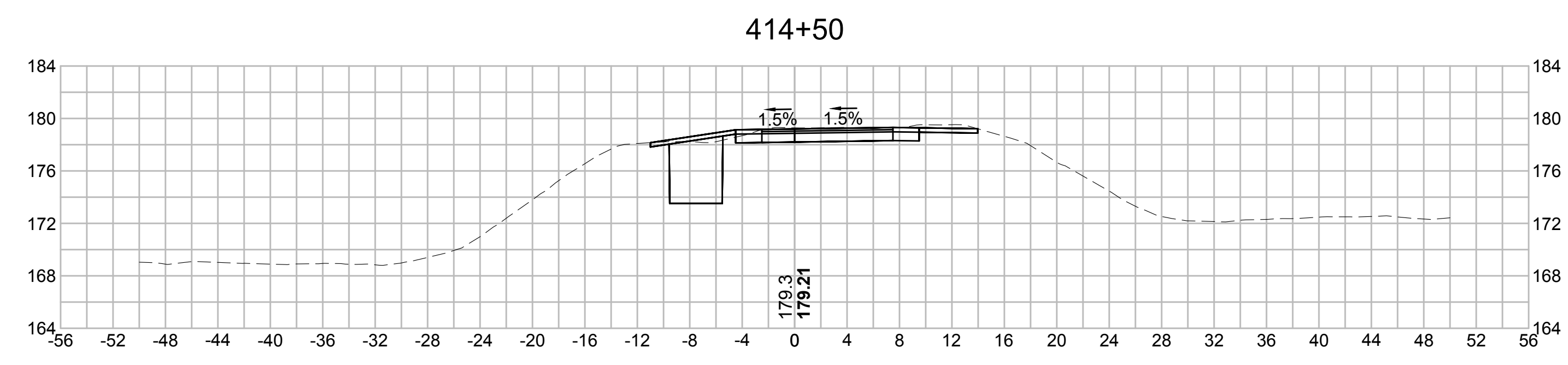
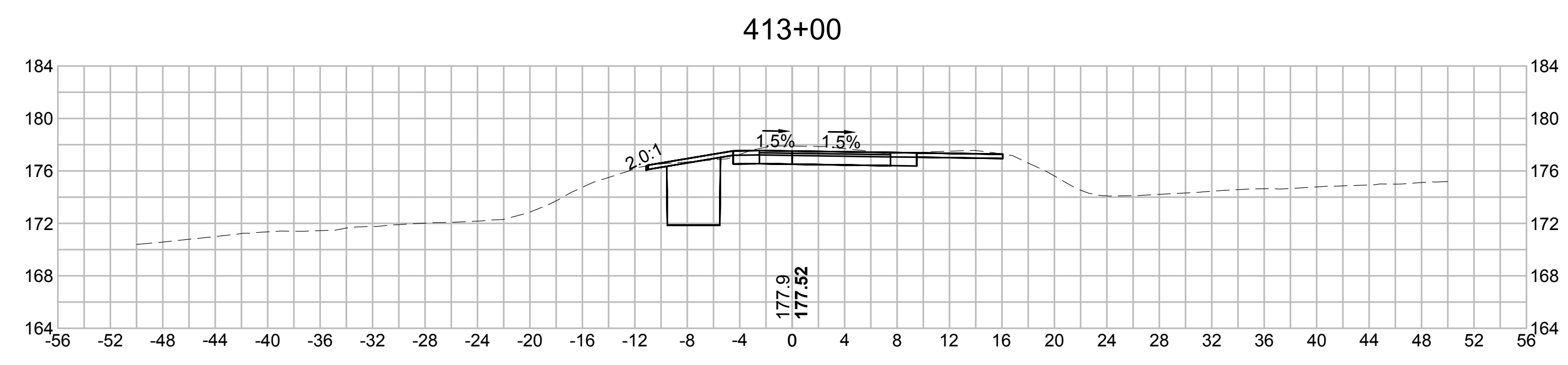
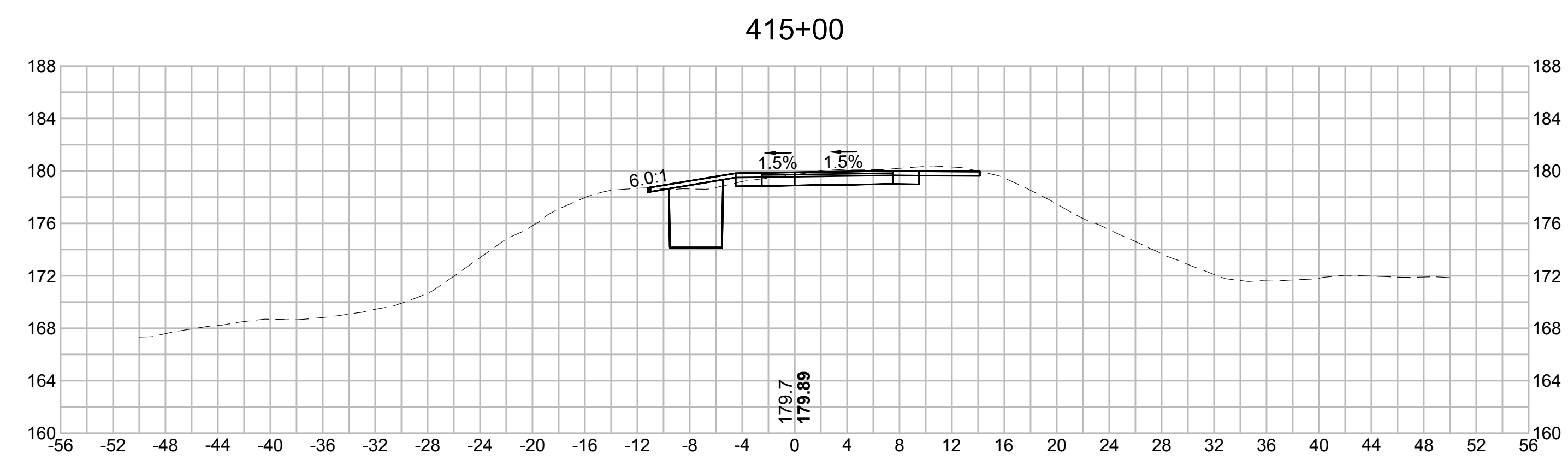
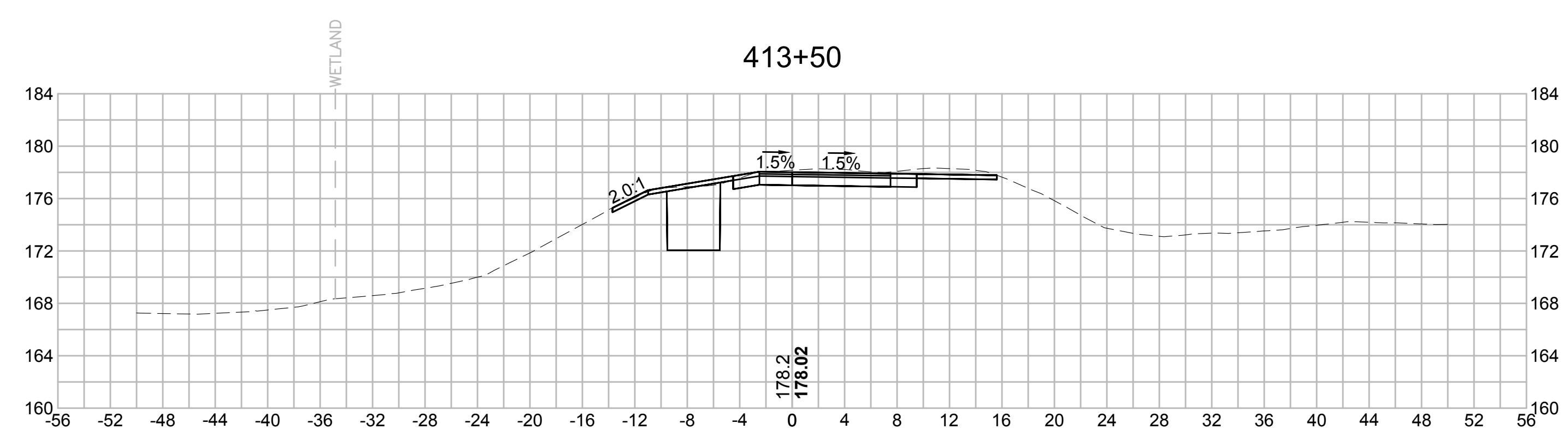
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 2510F316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|

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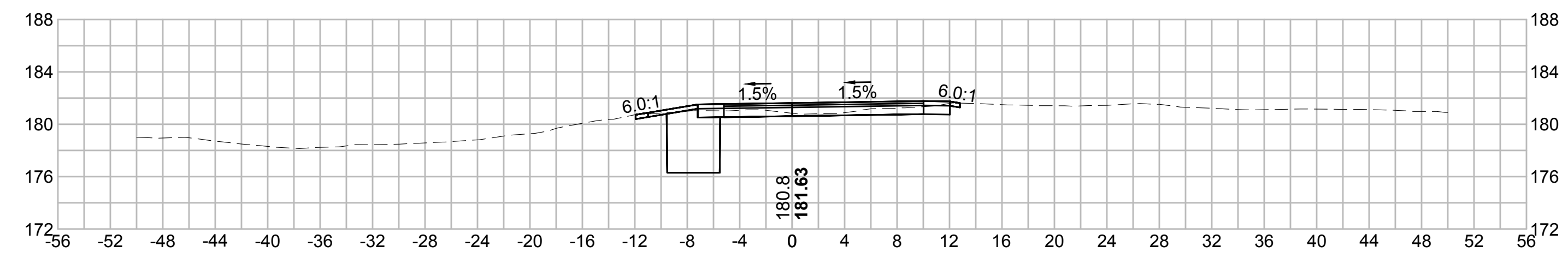
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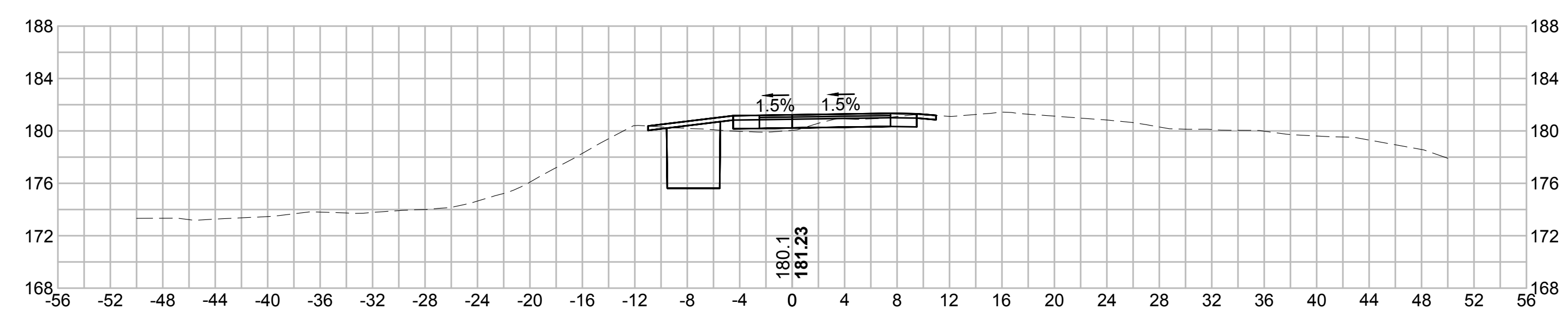
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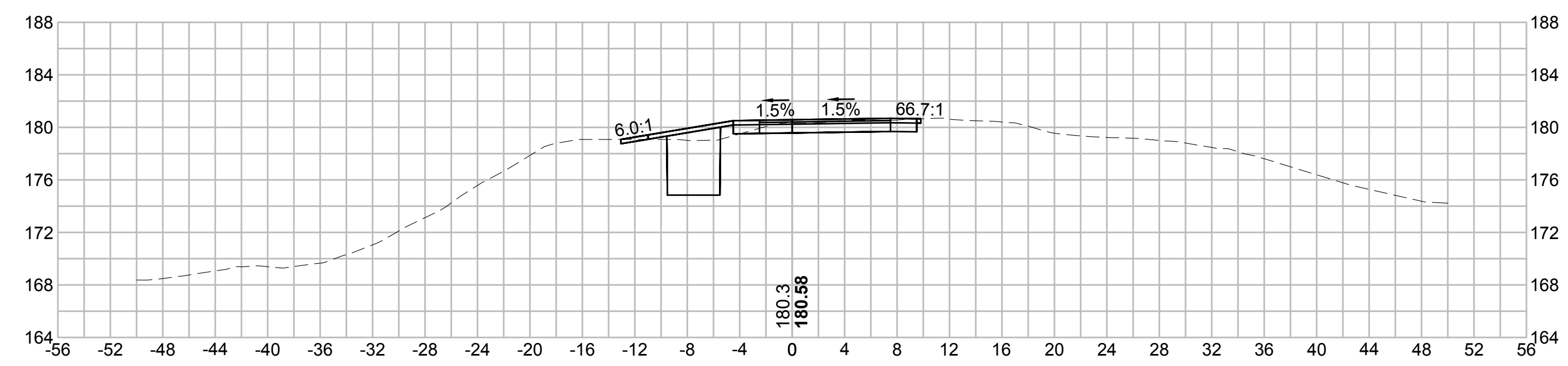
416+50



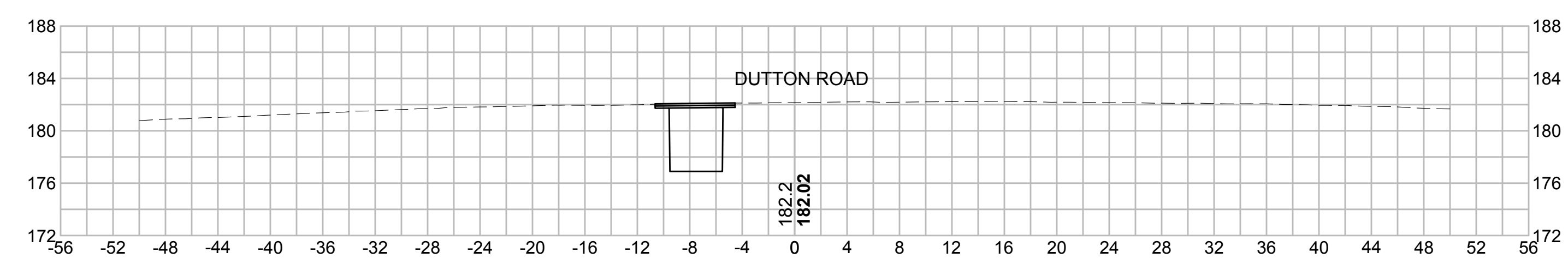
416+00



415+50



417+00



| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.        |
|---|-------------------|-------------|---------------|--------------|
|   | REVISION          |             |               |              |
| <b>EVERSOURCE</b>                                 |                   |             |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |              |
| CROSS SECTIONS                                    |                   |             |               |              |
| PLAN 252 OF 316                                   |                   |             |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |               |              |

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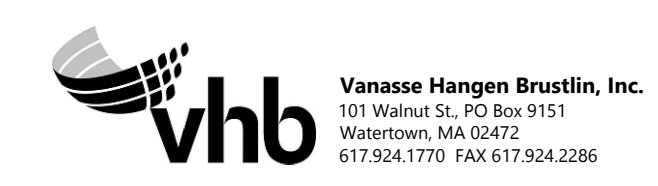
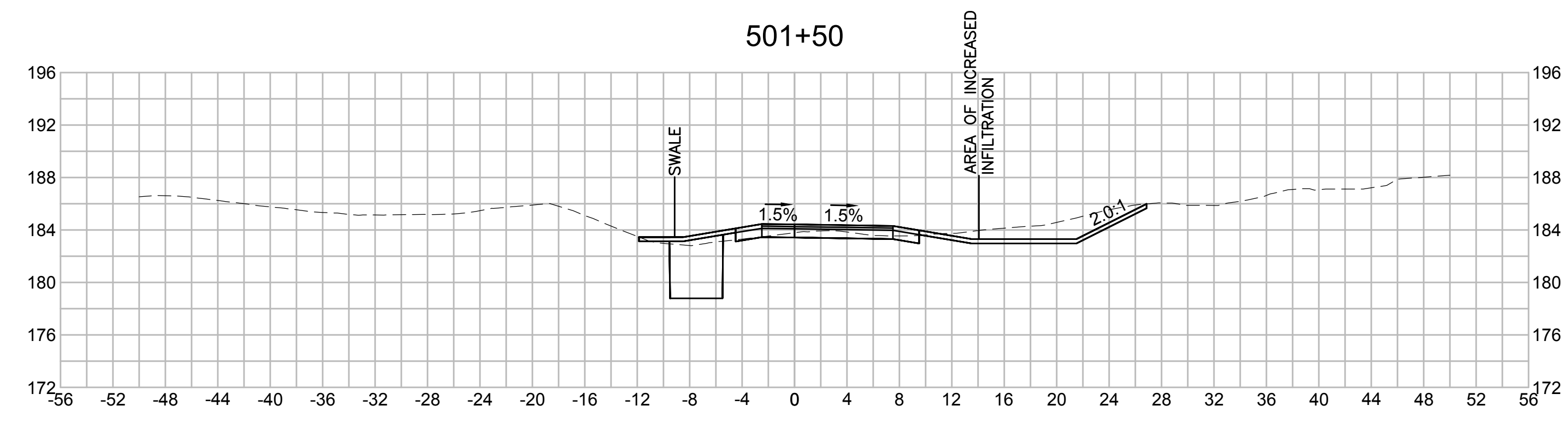
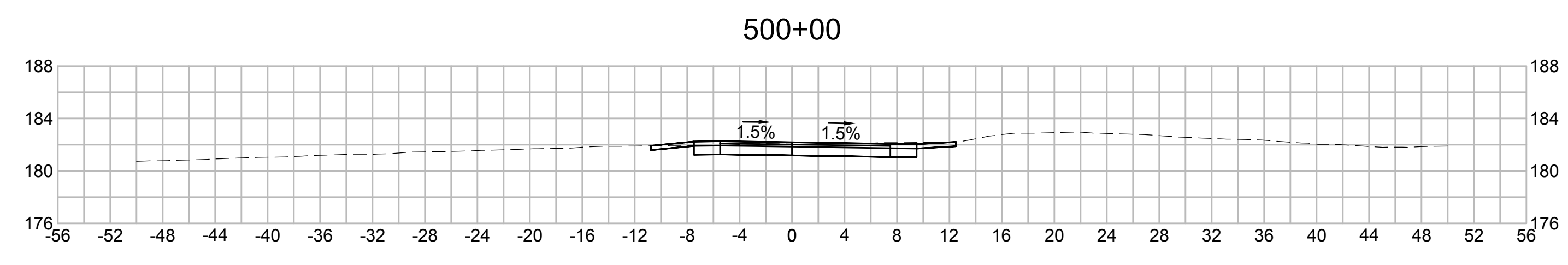
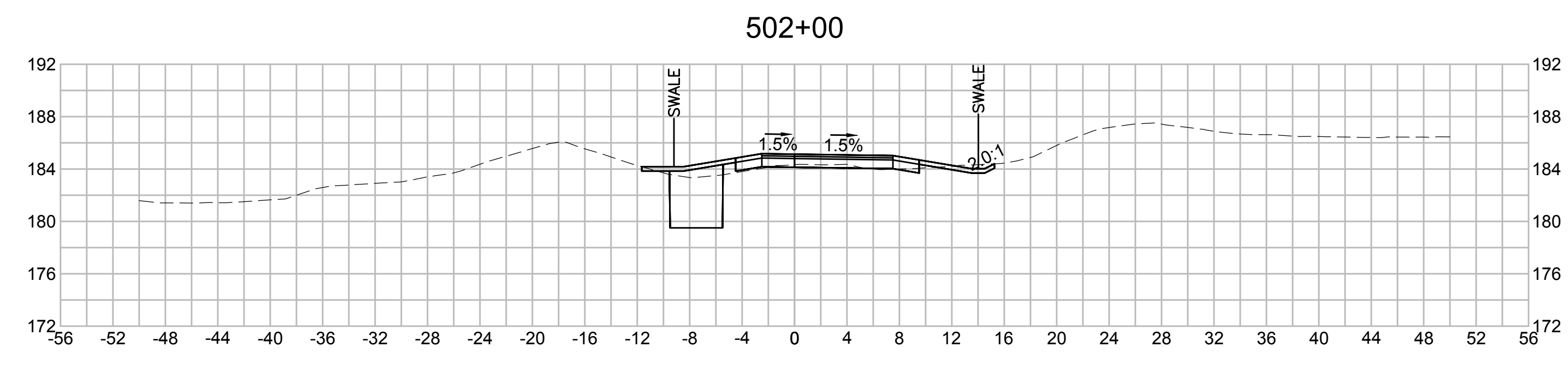
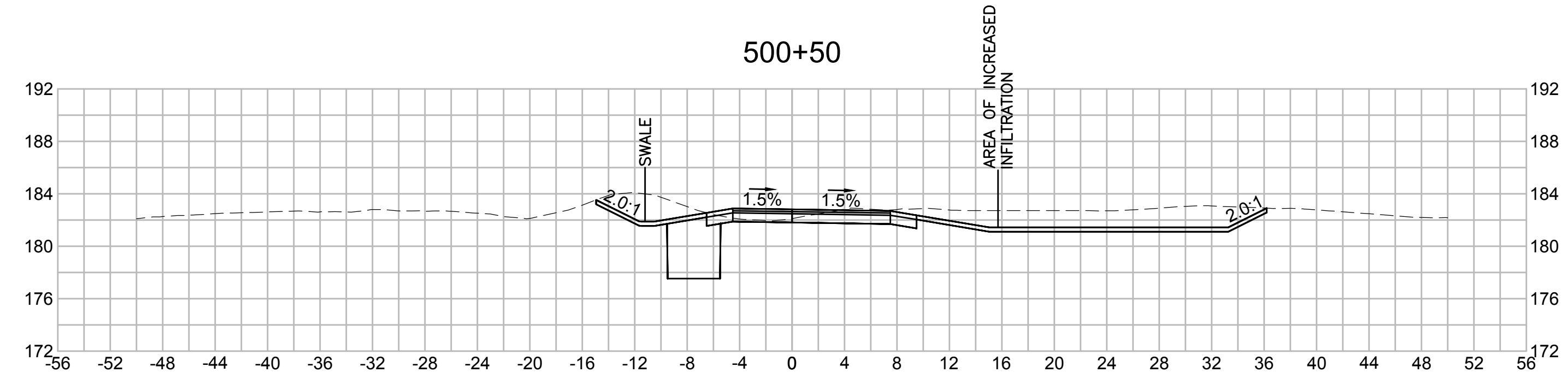
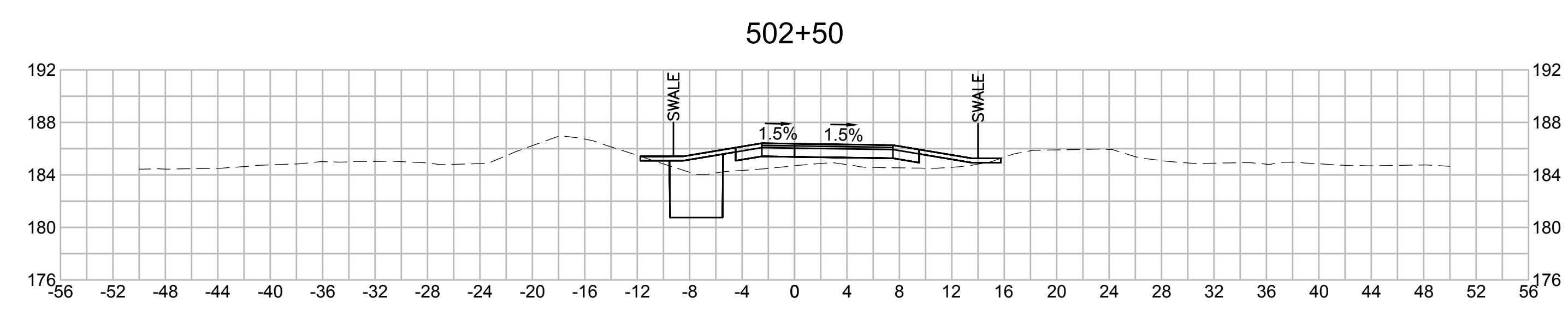
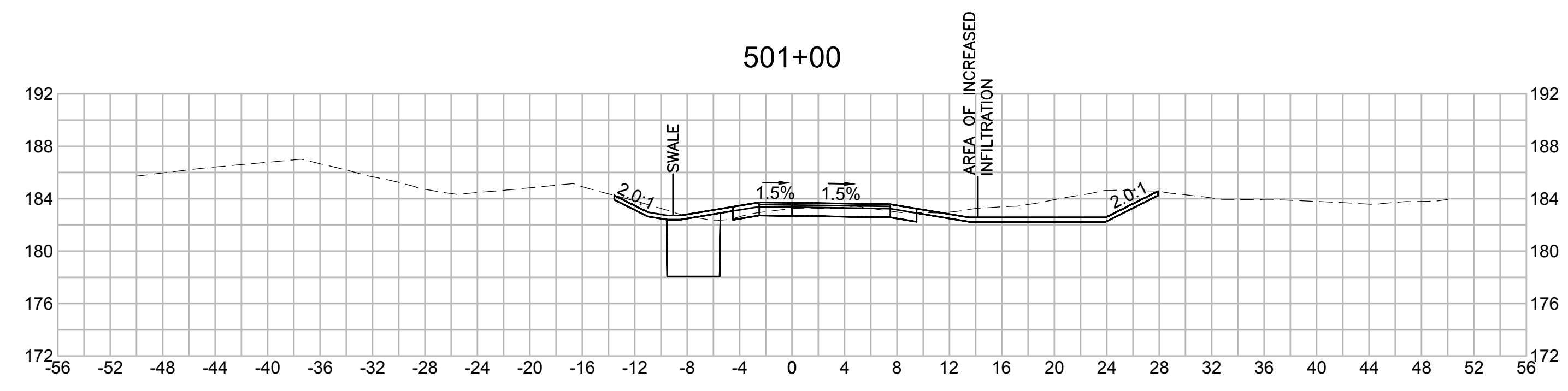
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 253 OF 316

|                              |                   |             |               |                 |                     |
|------------------------------|-------------------|-------------|---------------|-----------------|---------------------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO.<br>REV. |
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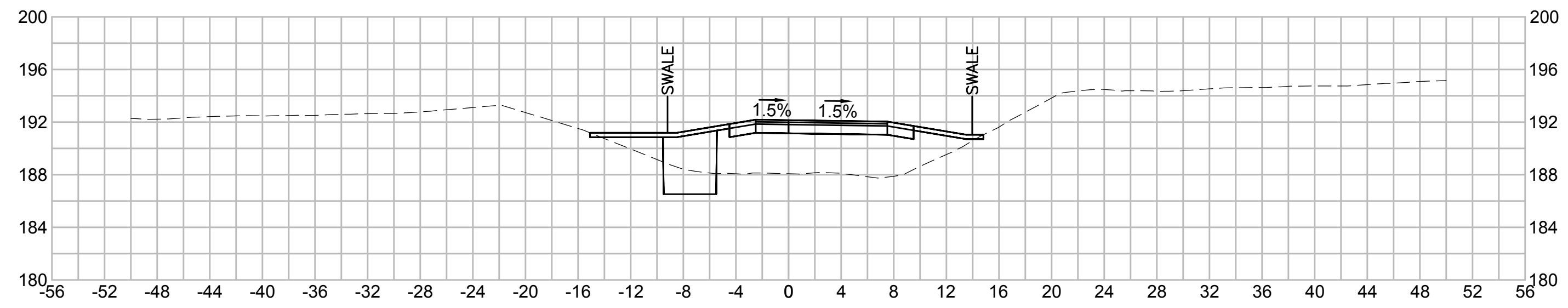
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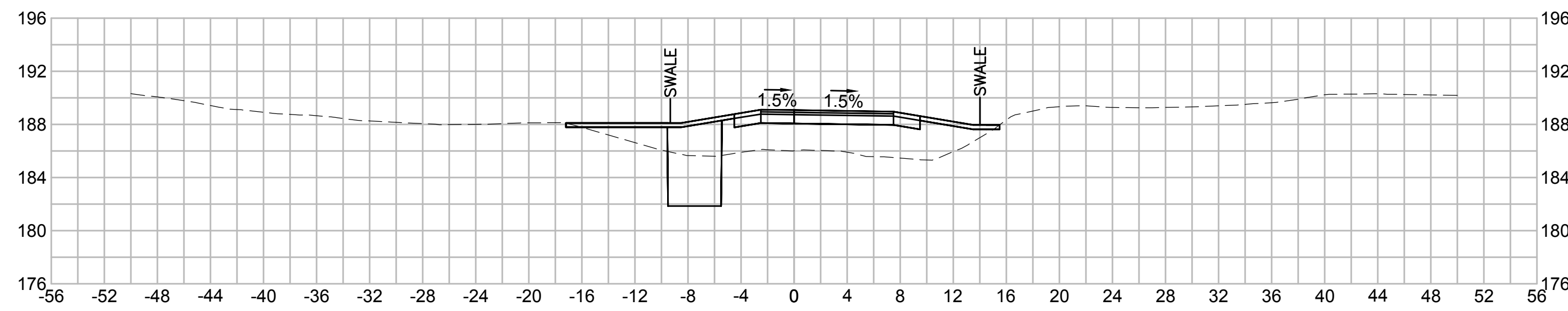
504+00



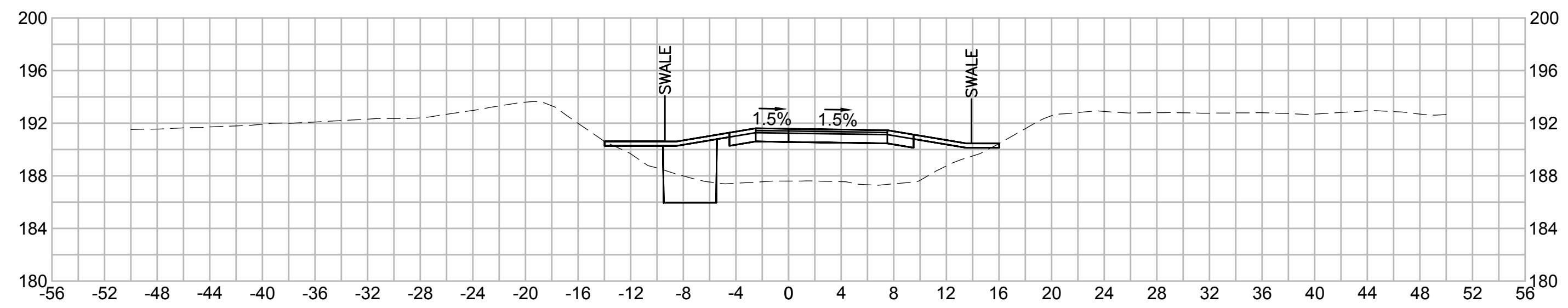
505+50



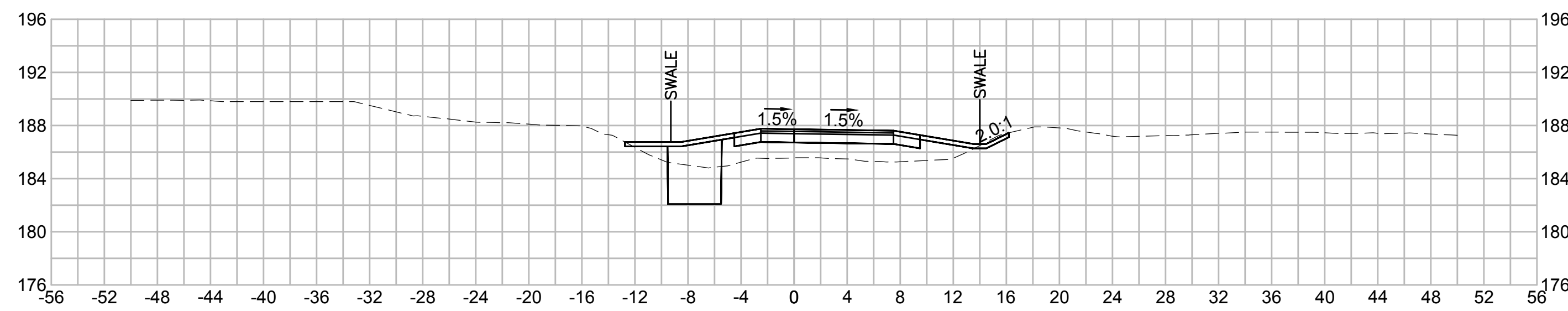
503+50



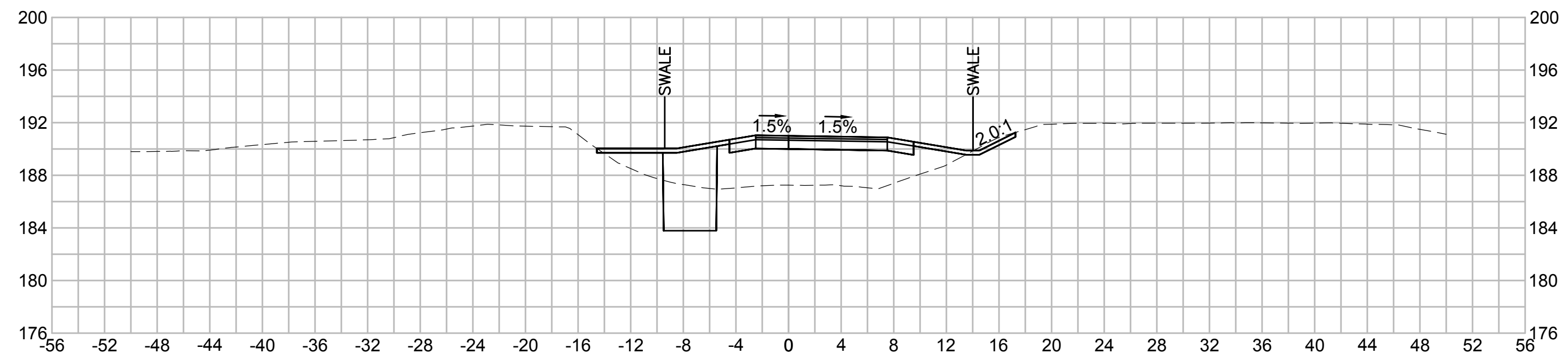
505+00



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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 254 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

1 2 3 4 5 6 7 8 9 10 11



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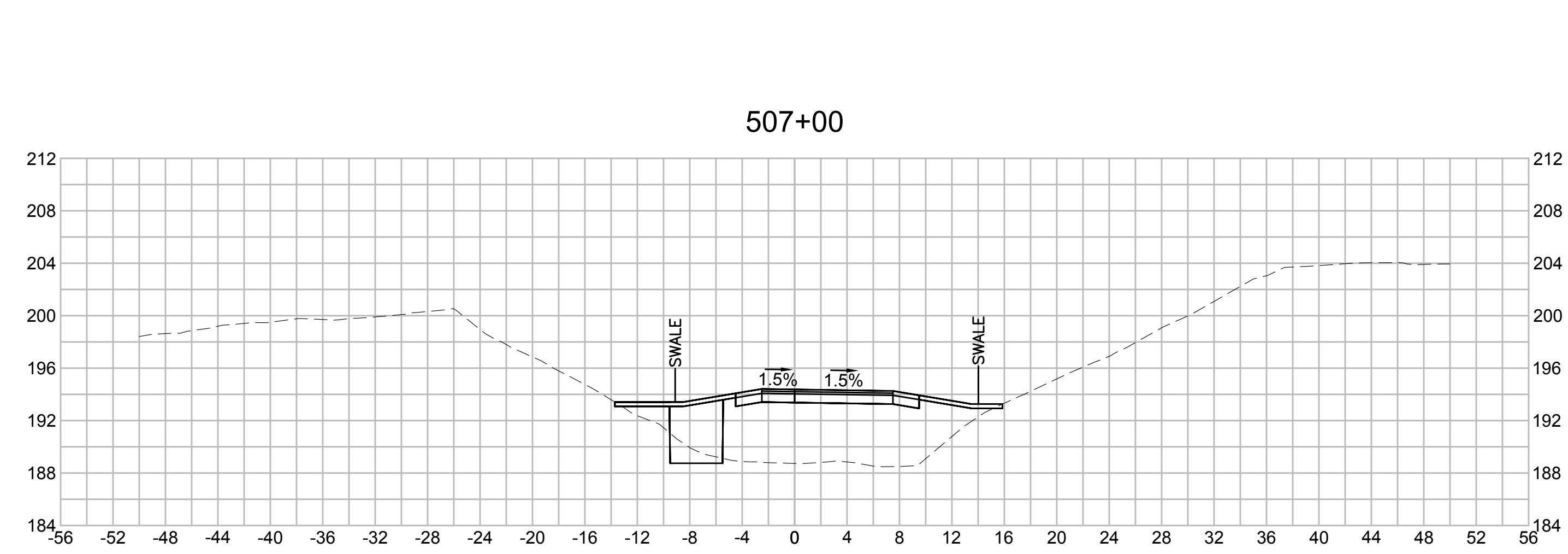
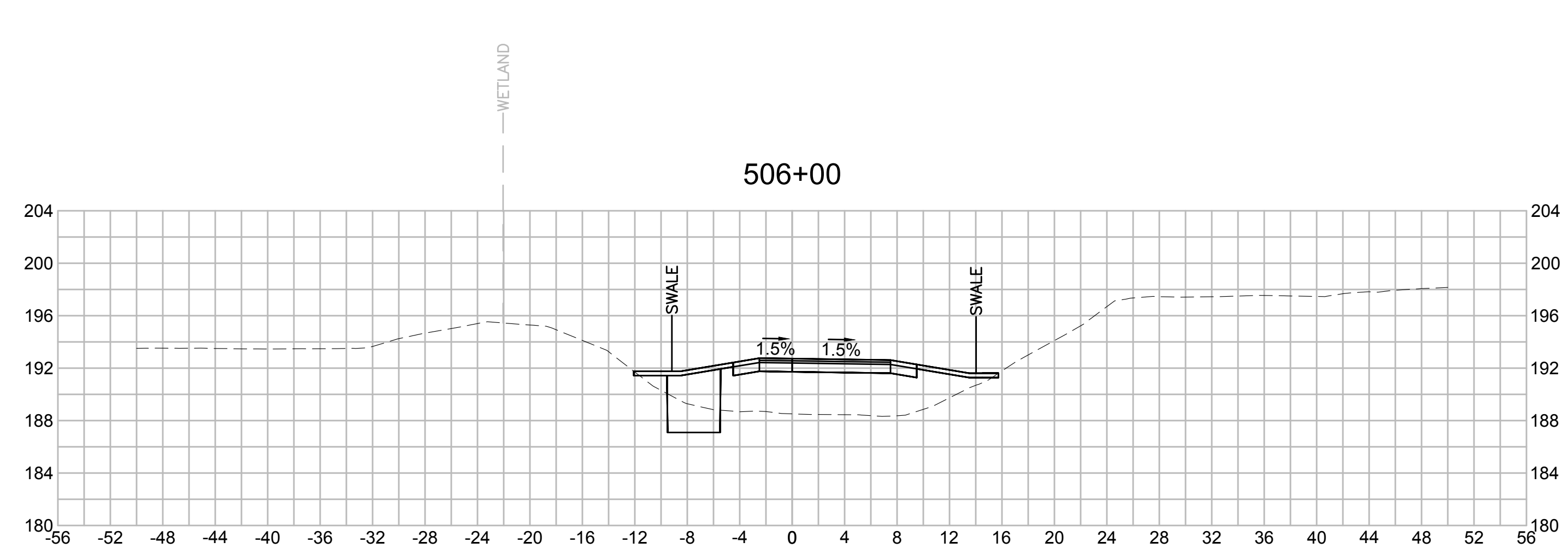
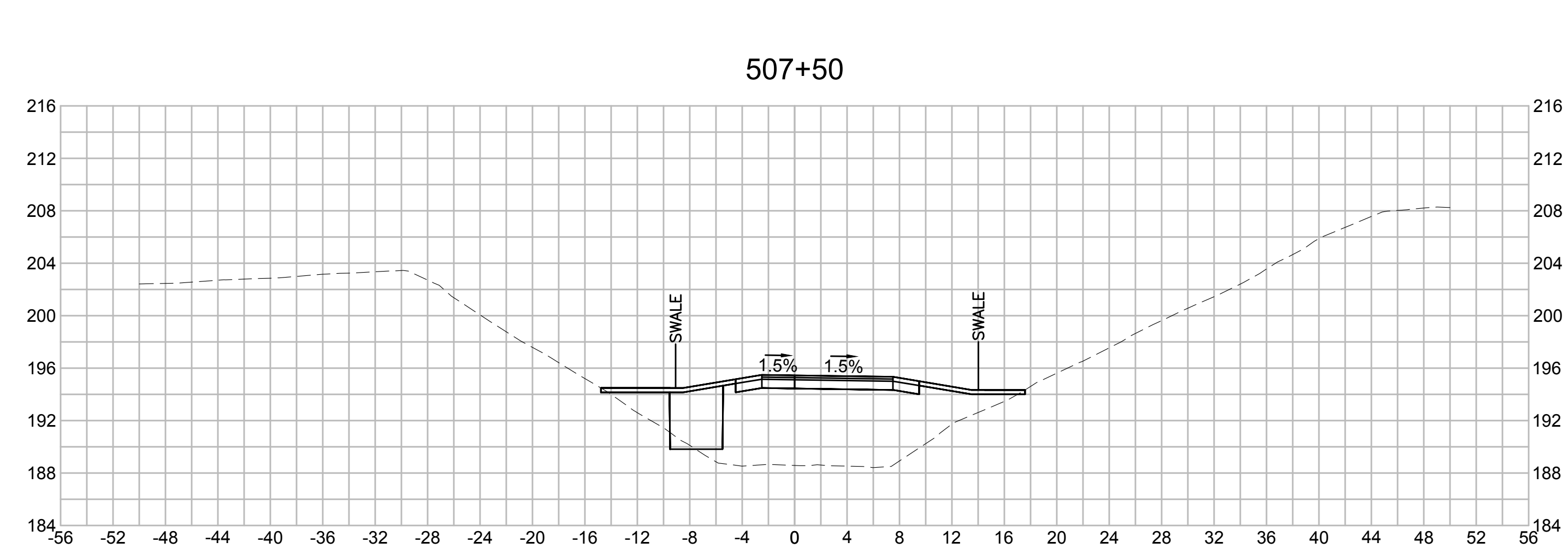
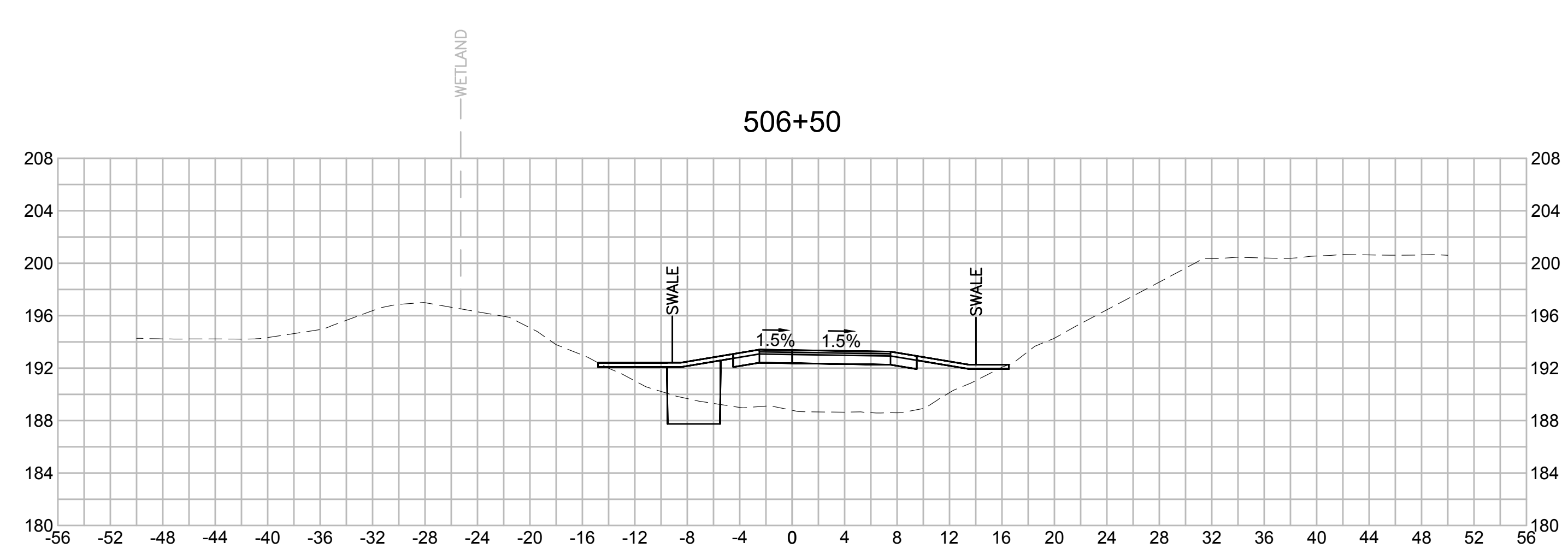
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| NO.   |  | DESCRIPTION |       | BY    | DATE   | APPR.            |
|---|--|-------------|-------|-------|--------|------------------|
|   |  | REVISION    |       |       |        |                  |
| <b>EVERSOURCE</b>                                 |  |             |       |       |        |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |             |       |       |        |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |             |       |       |        |                  |
| CROSS SECTIONS                                    |  |             |       |       |        |                  |
| PLAN 255 OF 316                                   |  |             |       |       |        |                  |
| SCALE: unless noted<br>1"=8'                      |  | DATE        | DRAWN | CHK'D | APP'R. | DRAWING NO. REV. |
|   |  | JULY 2020   | MS    | SK    | MES    | . .              |

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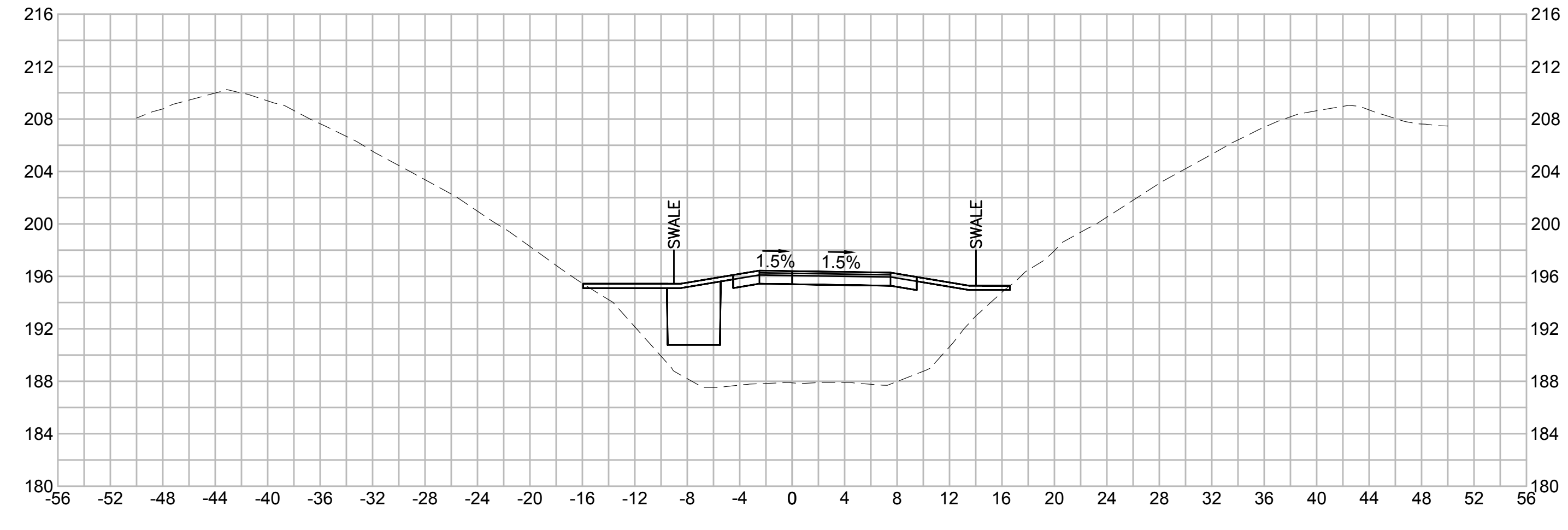
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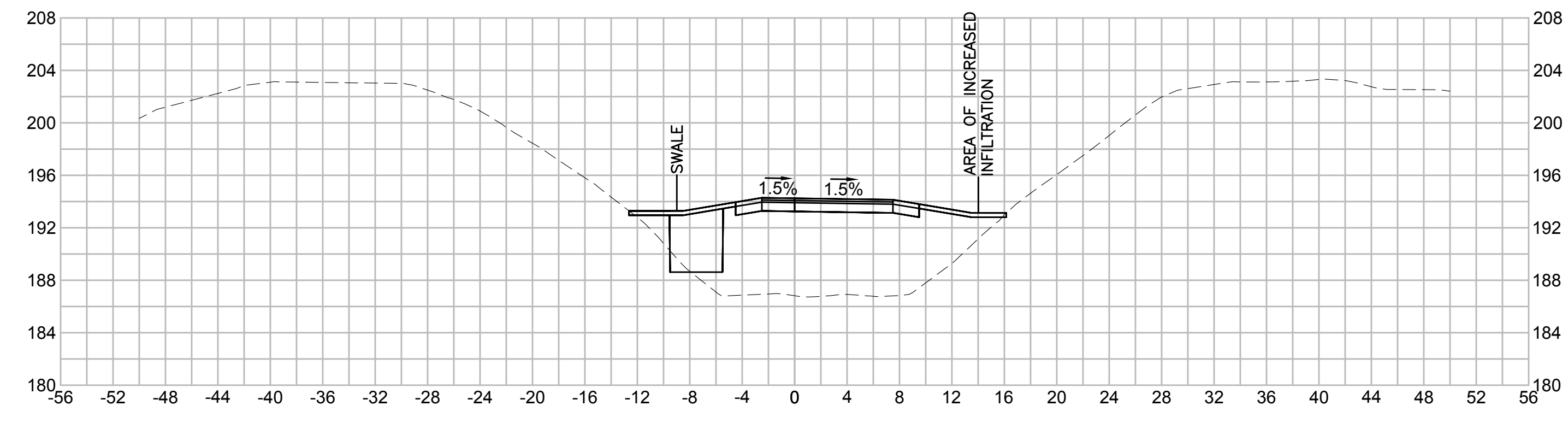
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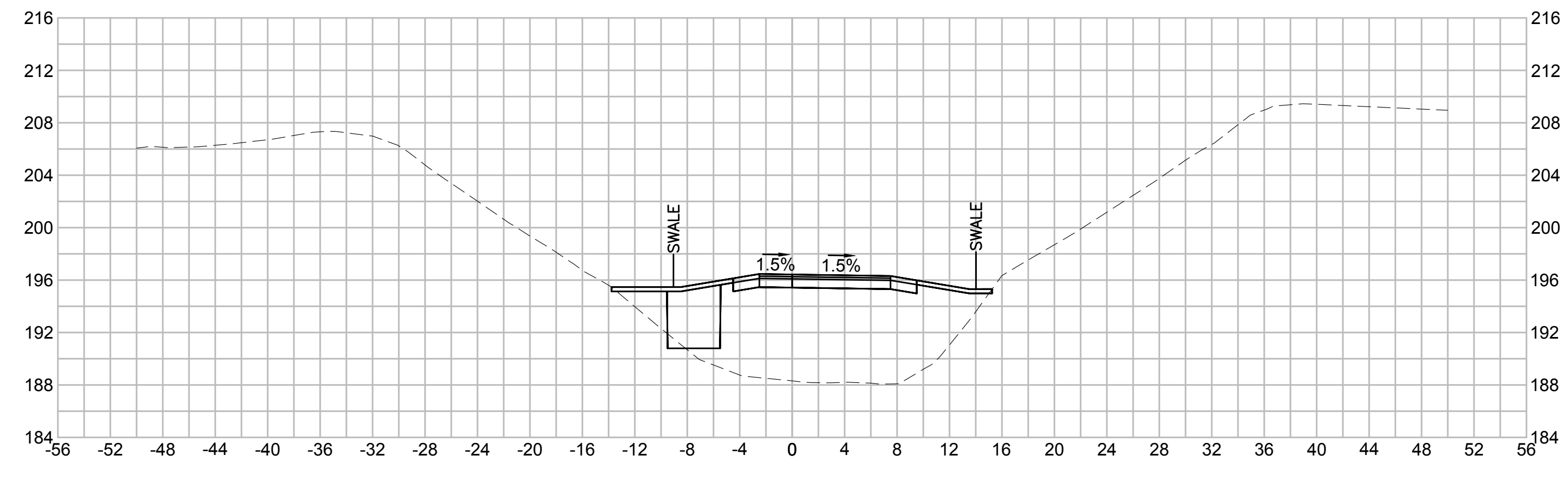
508+50



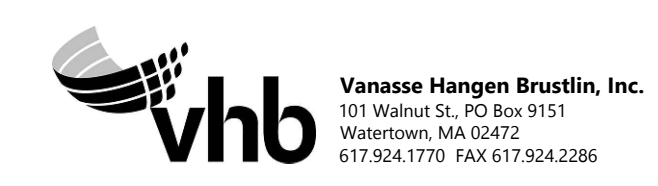
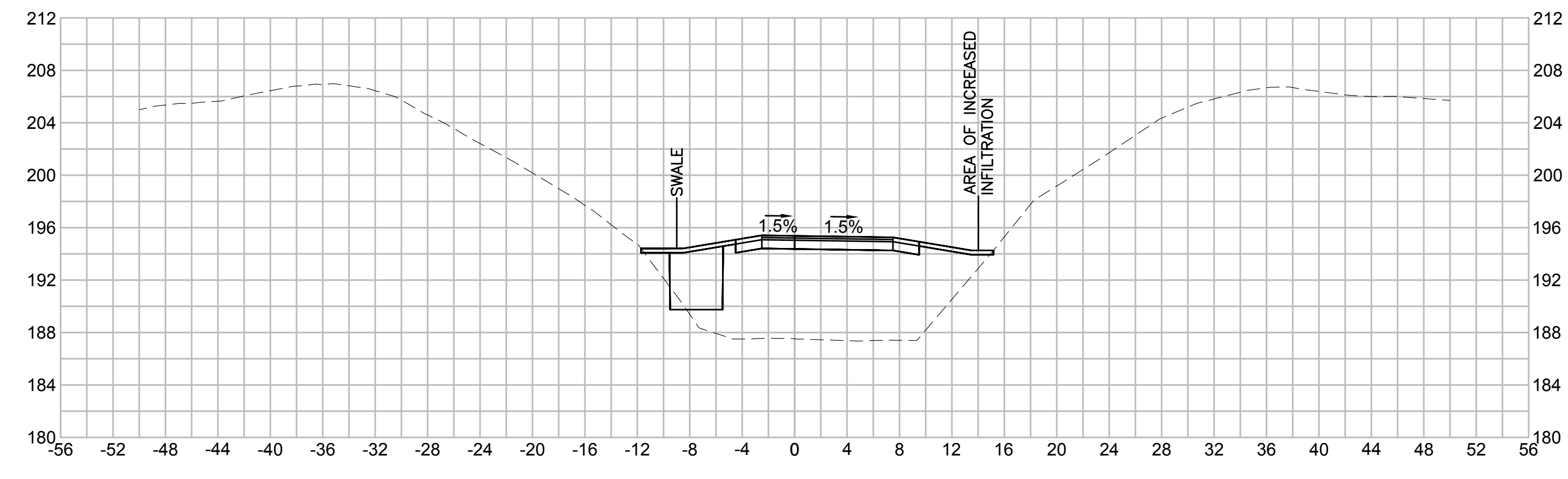
509+50



508+00



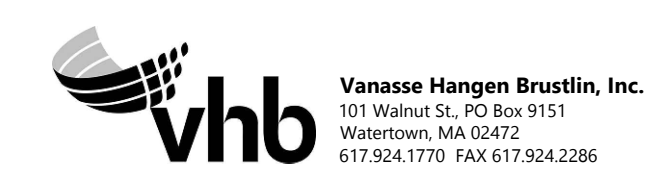
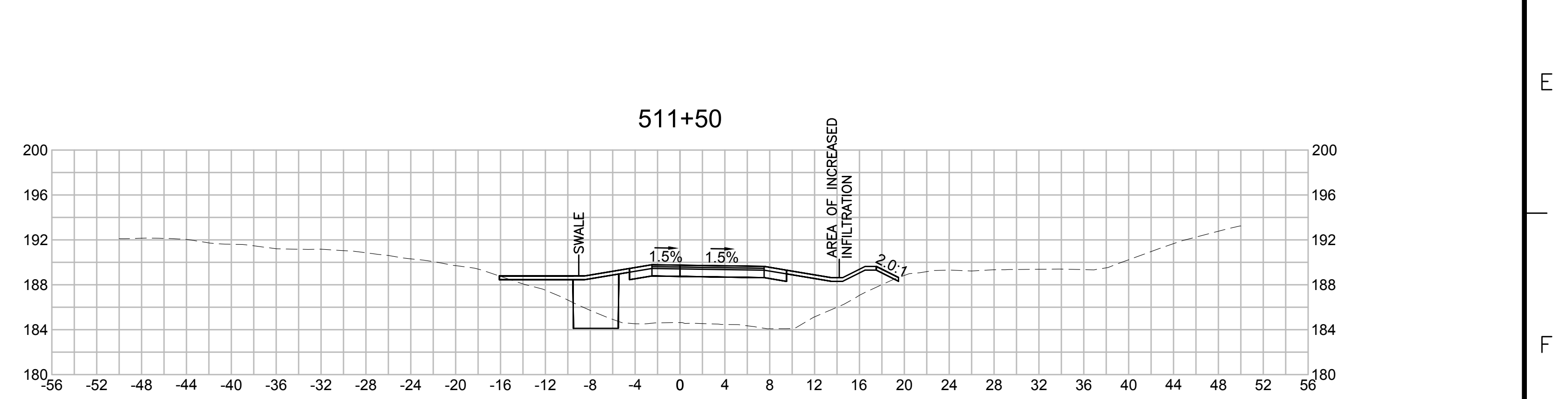
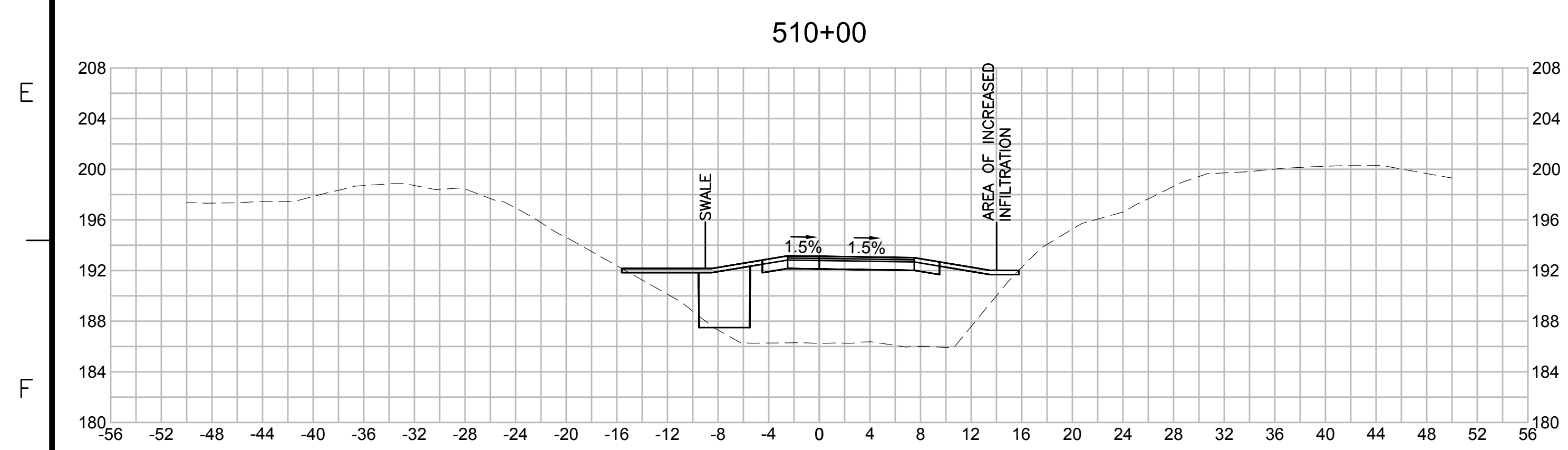
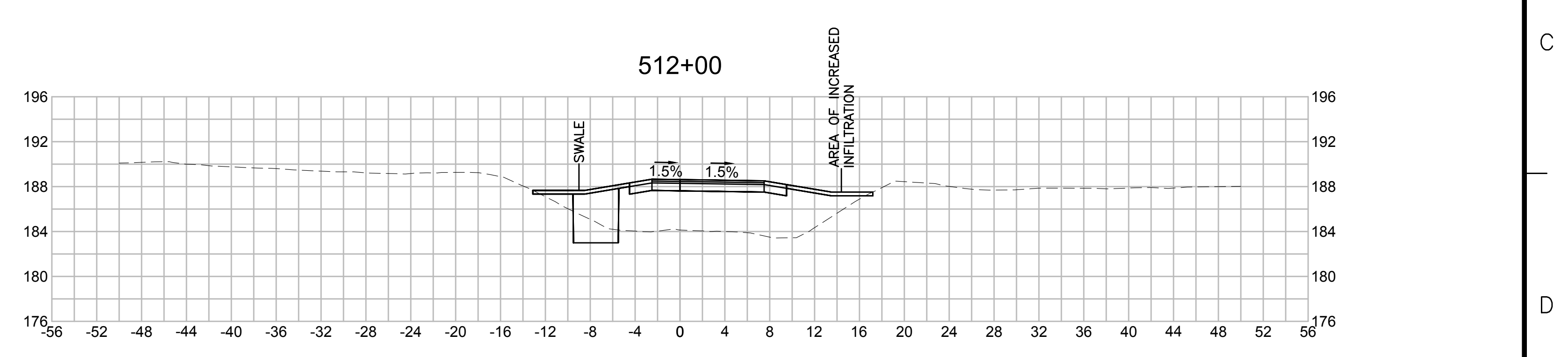
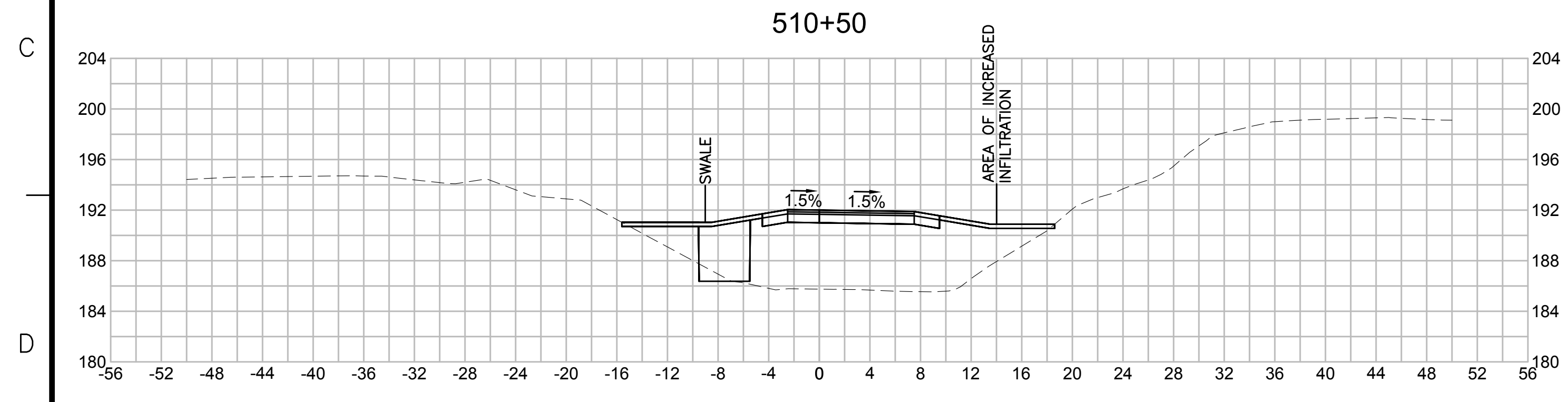
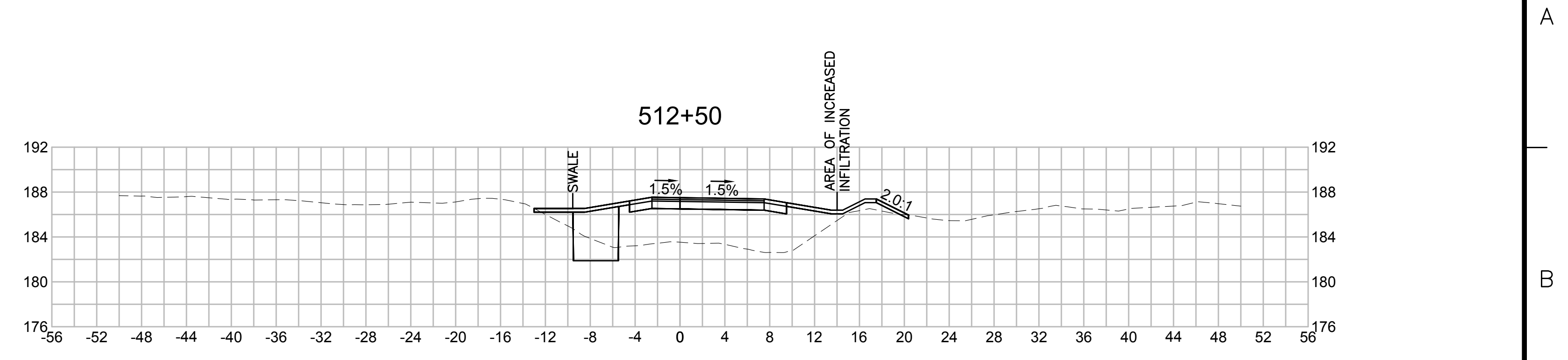
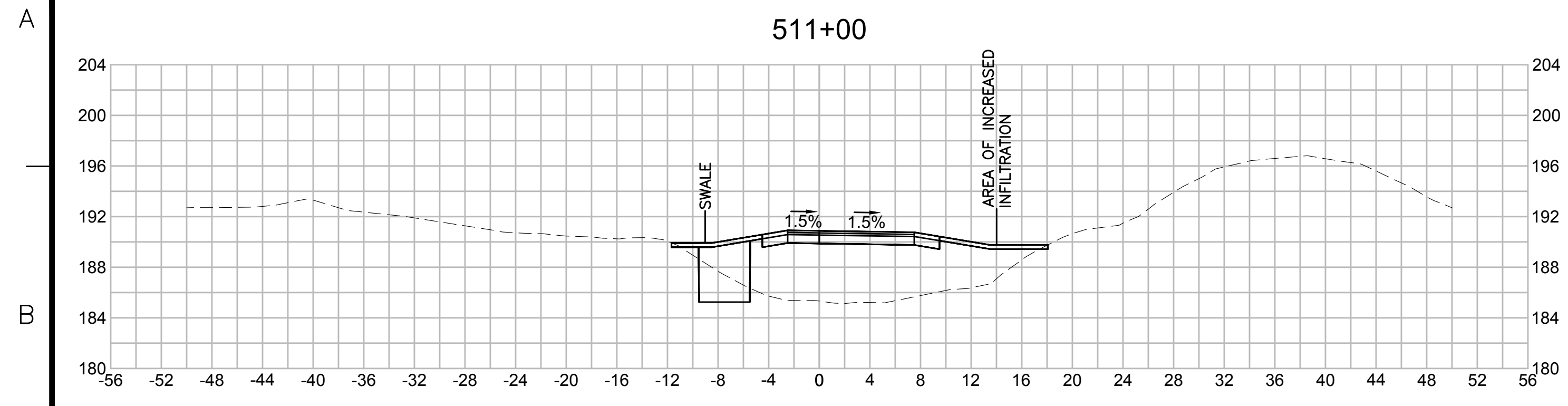
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| NO.   |  | DESCRIPTION |       | BY    | DATE   | APPR.            |
|---|--|-------------|-------|-------|--------|------------------|
|   |  | REVISION    |       |       |        |                  |
| <b>EVERSOURCE</b>                                 |  |             |       |       |        |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |             |       |       |        |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |             |       |       |        |                  |
| CROSS SECTIONS                                    |  |             |       |       |        |                  |
| PLAN 256 OF 316                                   |  |             |       |       |        |                  |
| SCALE: unless noted<br>1"=8'                      |  | DATE        | DRAWN | CHK'D | APP'R. | DRAWING NO. REV. |
|   |  | JULY 2020   | MS    | SK    | MES    | . .              |

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| NO.   |           | DESCRIPTION |       | BY     | DATE        | APPR. |
|---|-----------|-------------|-------|--------|-------------|-------|
| REVISION  |           |             |       |        |             |       |
| <b>EVERSOURCE</b>                                 |           |             |       |        |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |           |             |       |        |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |           |             |       |        |             |       |
| CROSS SECTIONS                                    |           |             |       |        |             |       |
| PLAN 257 OF 316                                   |           |             |       |        |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE      | DRAWN       | CHK'D | APP'R. | DRAWING NO. | REV.  |
|   | JULY 2020 | MS          | SK    | MES    |             |       |

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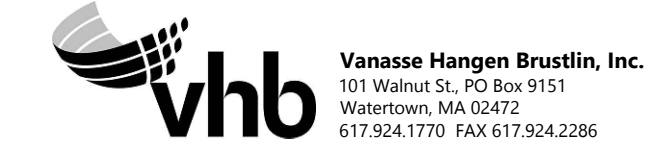
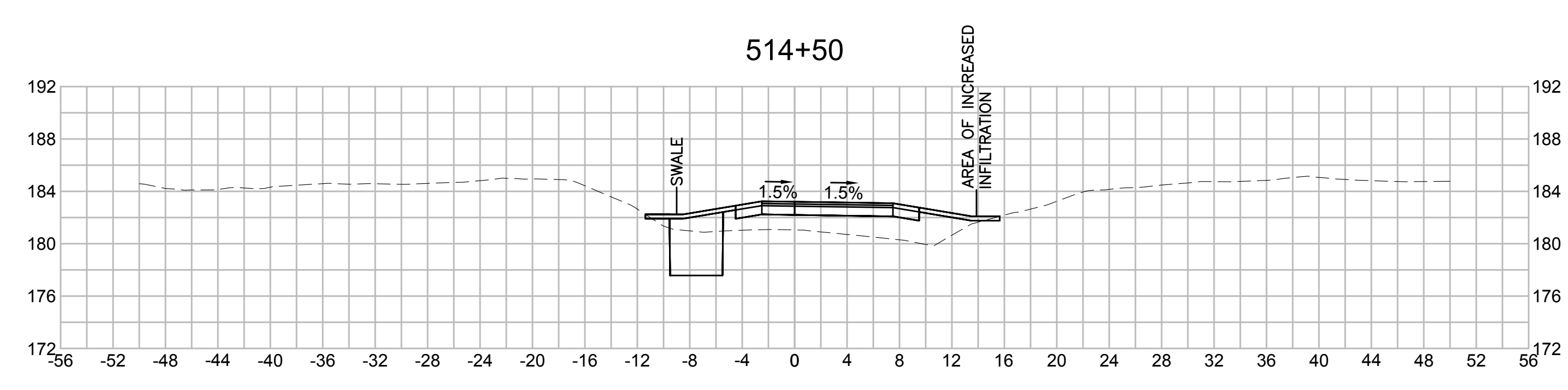
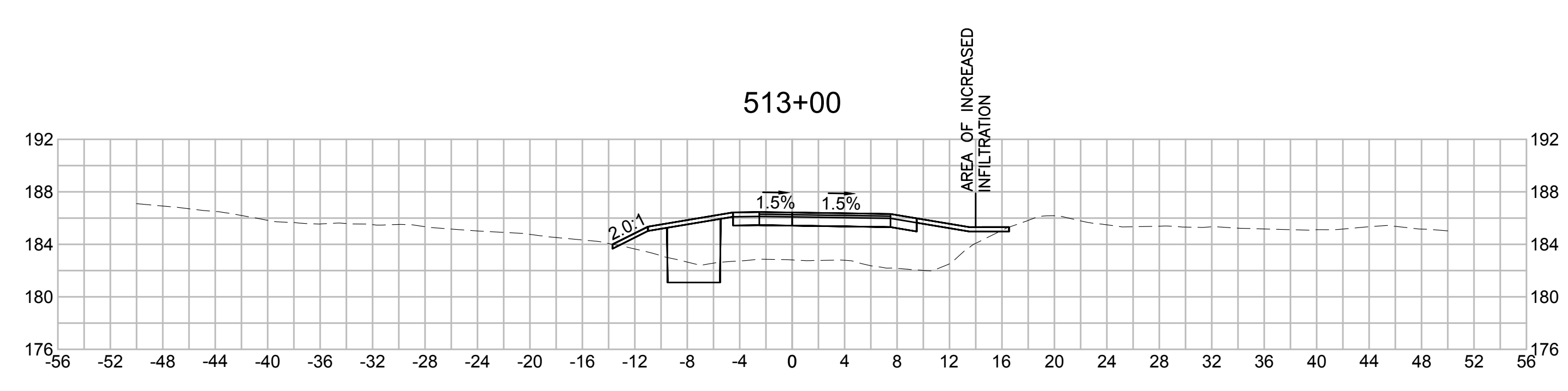
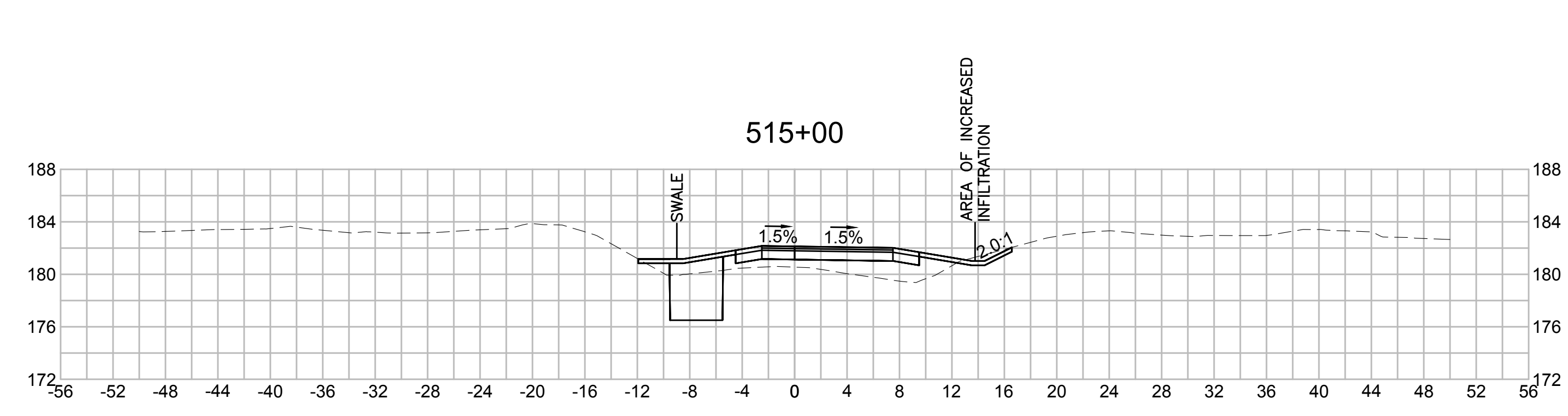
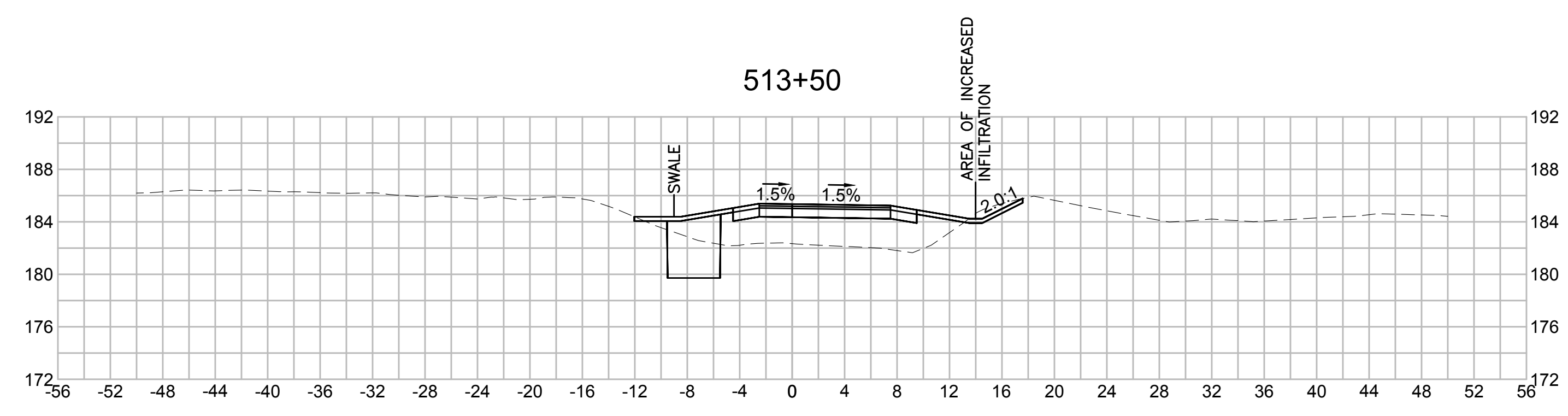
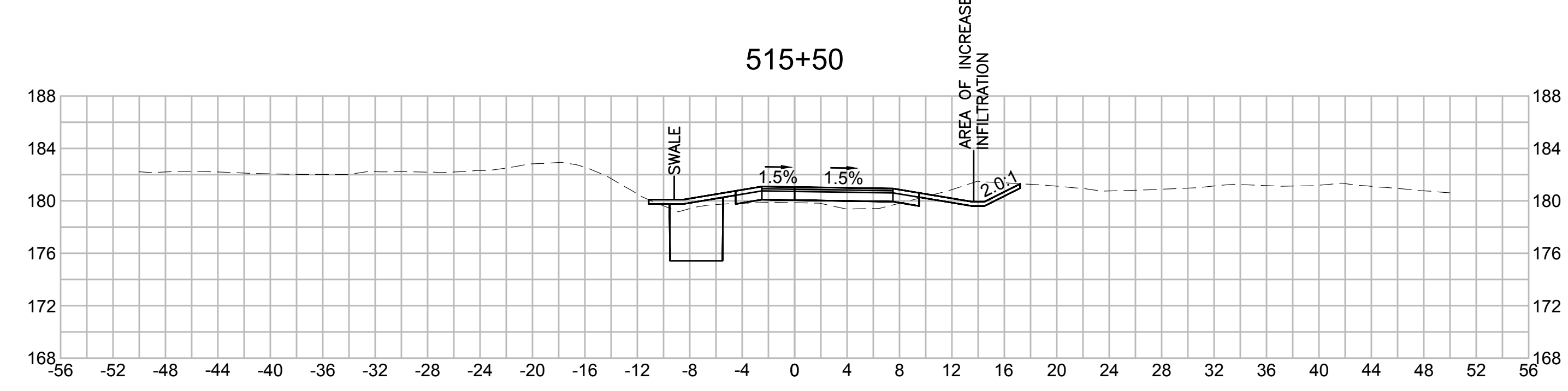
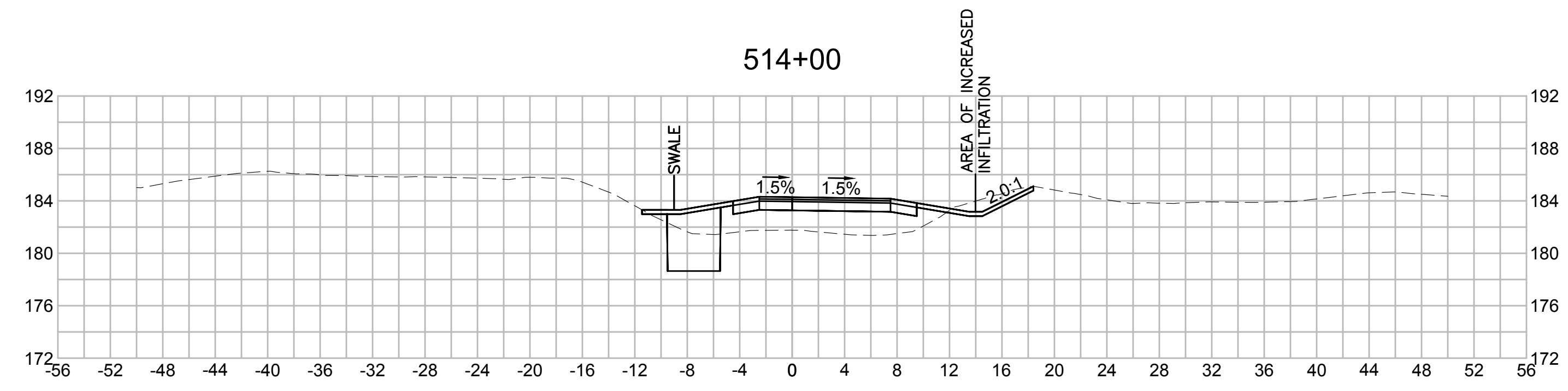
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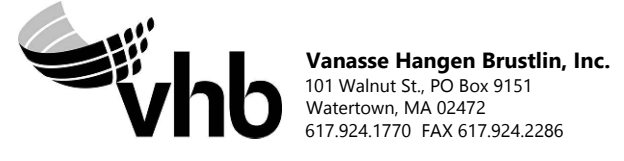
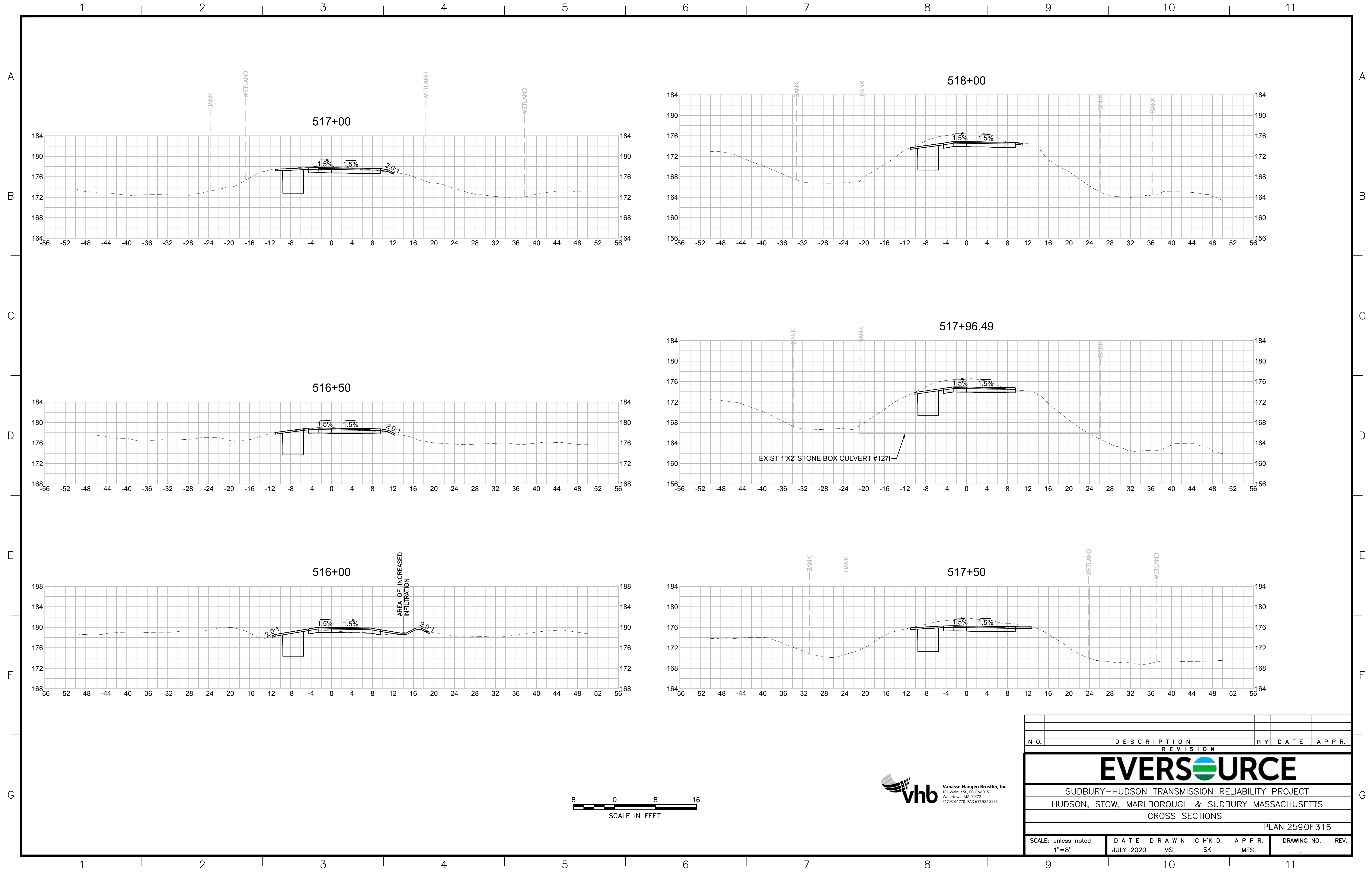
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 258 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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| N.O. | DESCRIPTION | BY | DATE | APPR. |
|------|-------------|----|------|-------|
|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 259 OF 316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|

1 2 3 4 5 6 7 8 9 10 11

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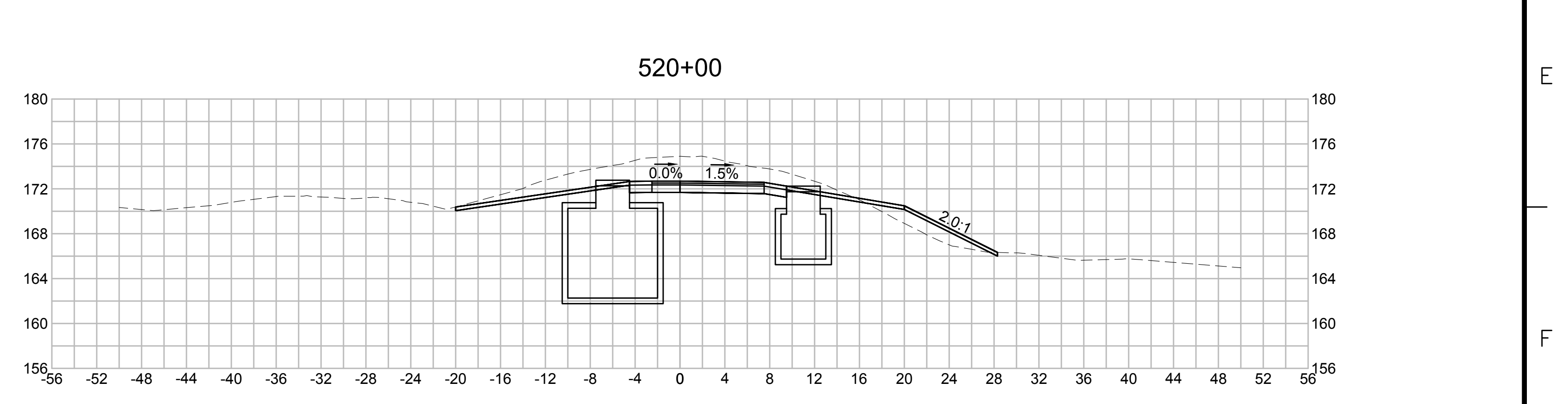
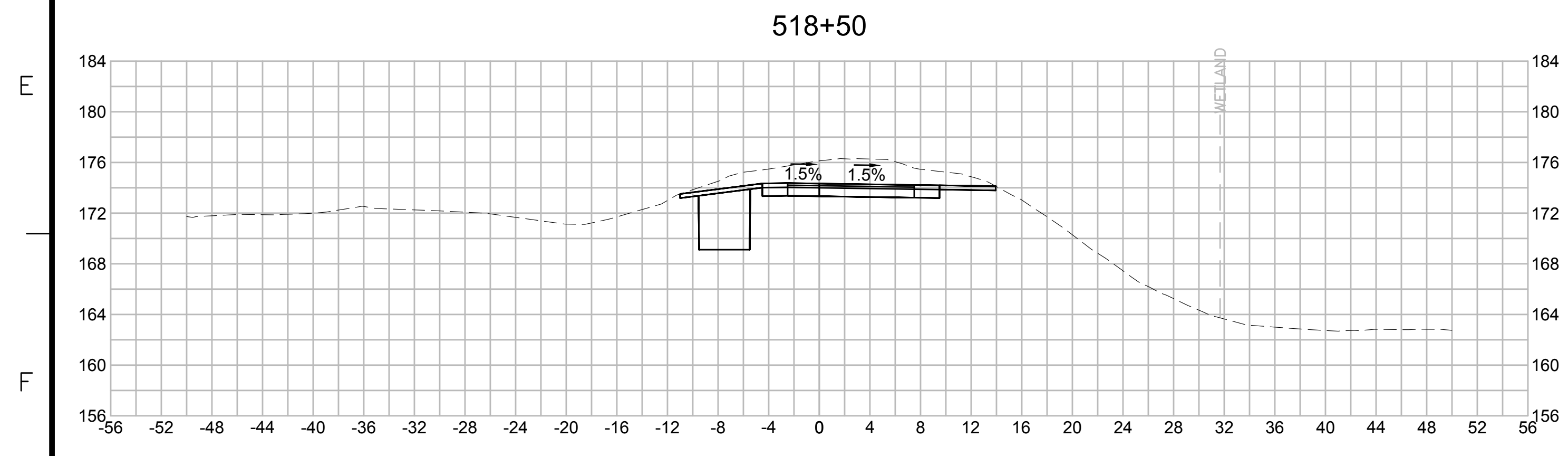
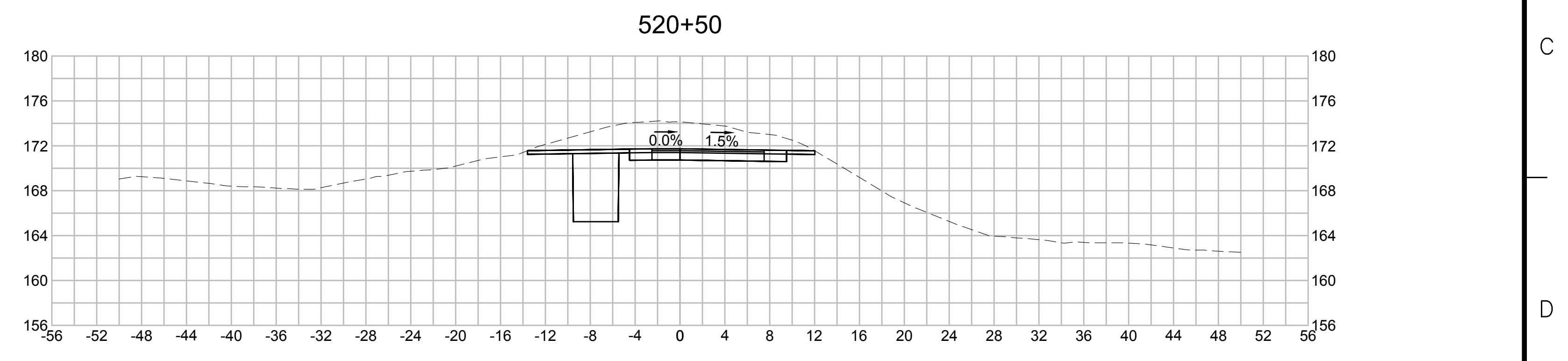
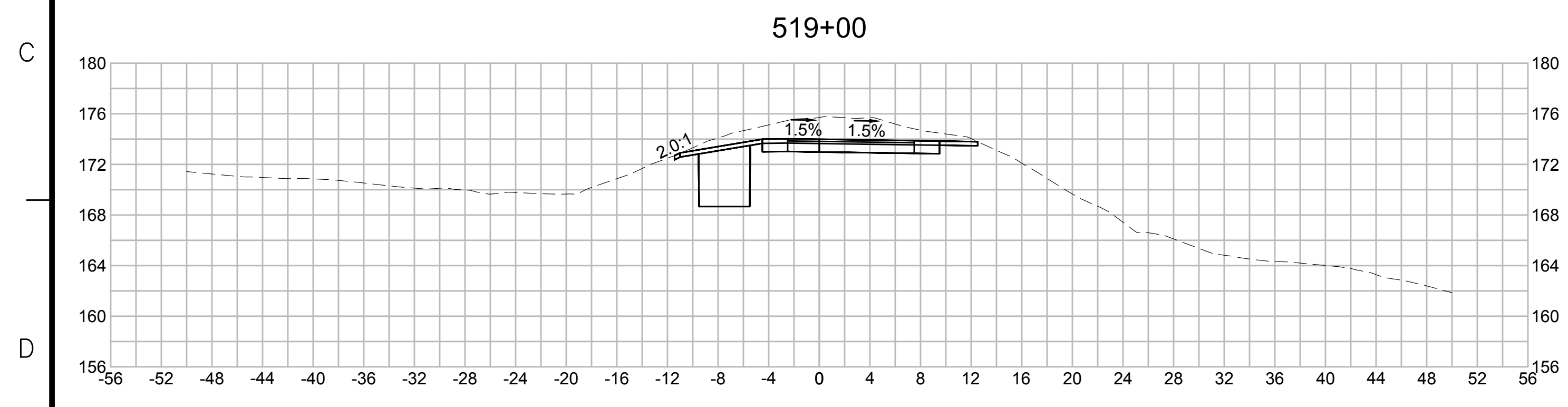
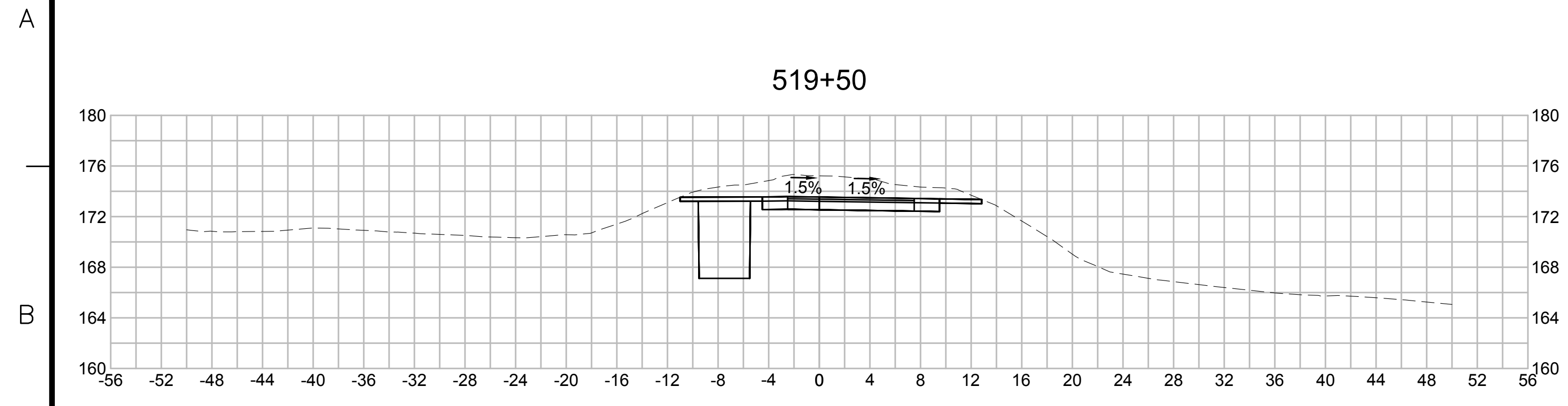
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1 2 3 4 5 6 7 8 9 10 11

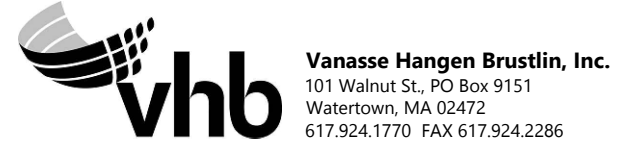
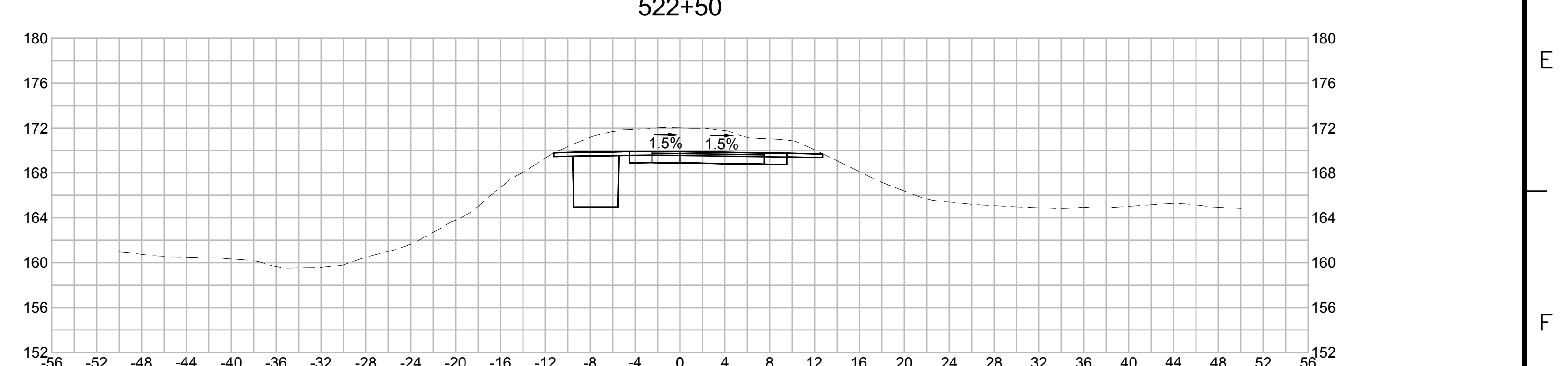
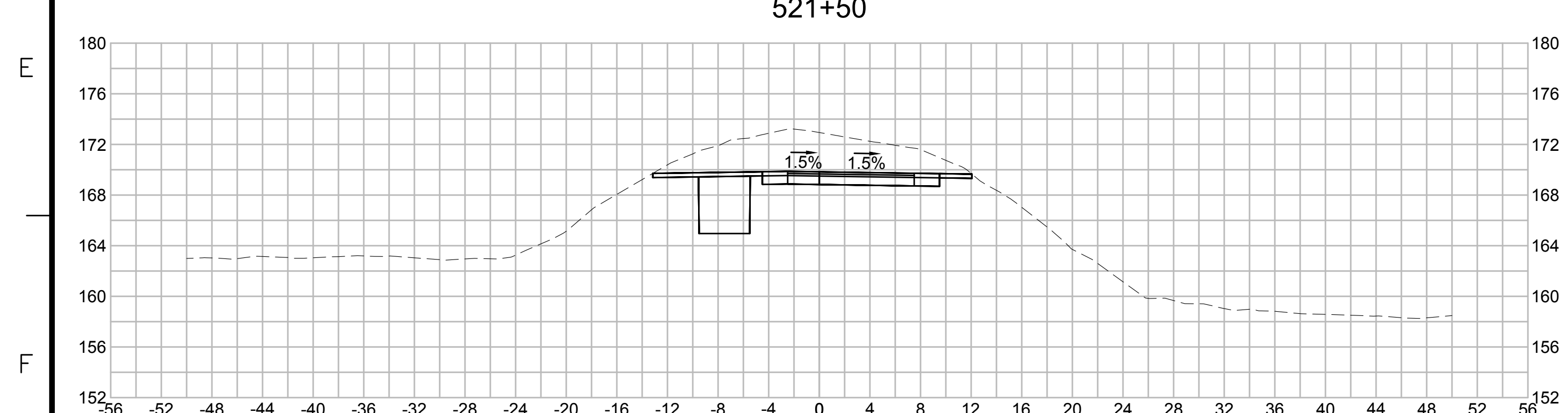
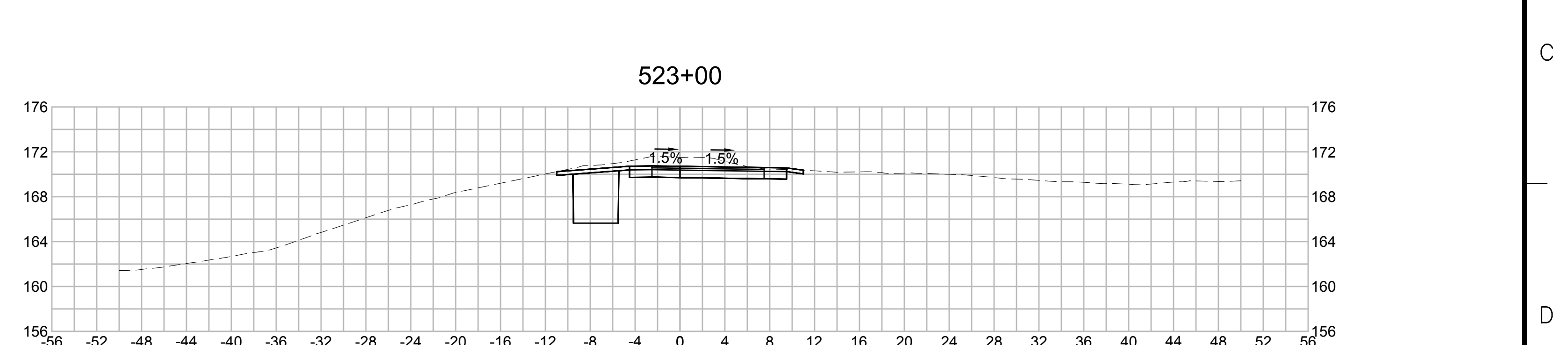
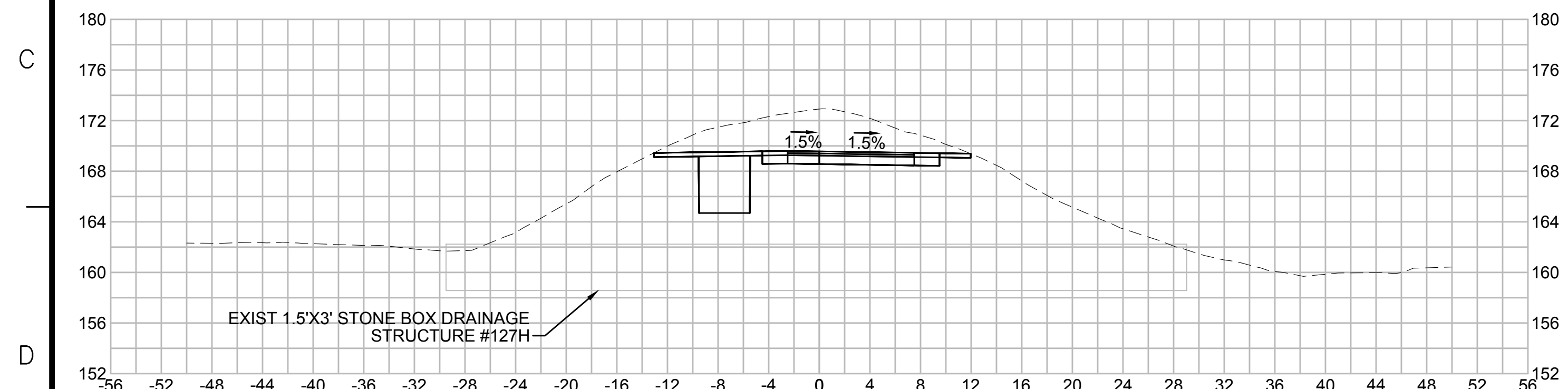
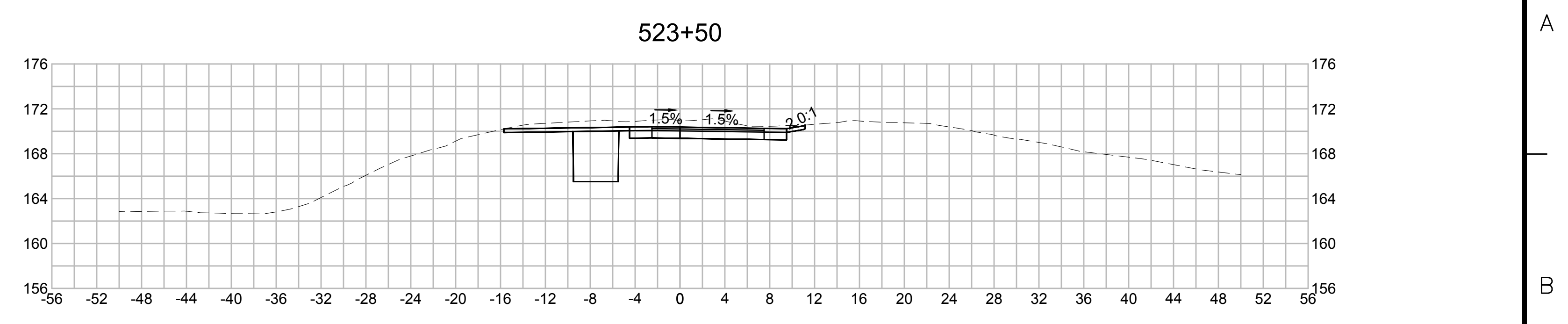
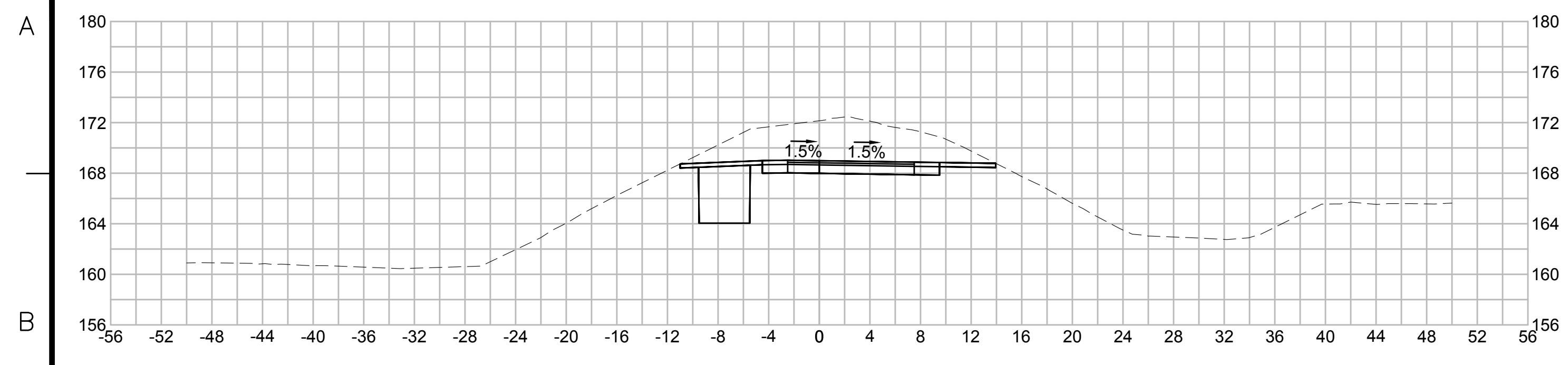
1 2 3 4 5 6 7 8 9 10 11



| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 2600F316                                     |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

1 2 3 4 5 6 7 8 9 10 11

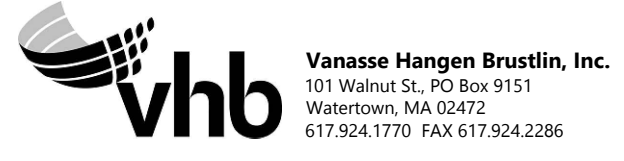
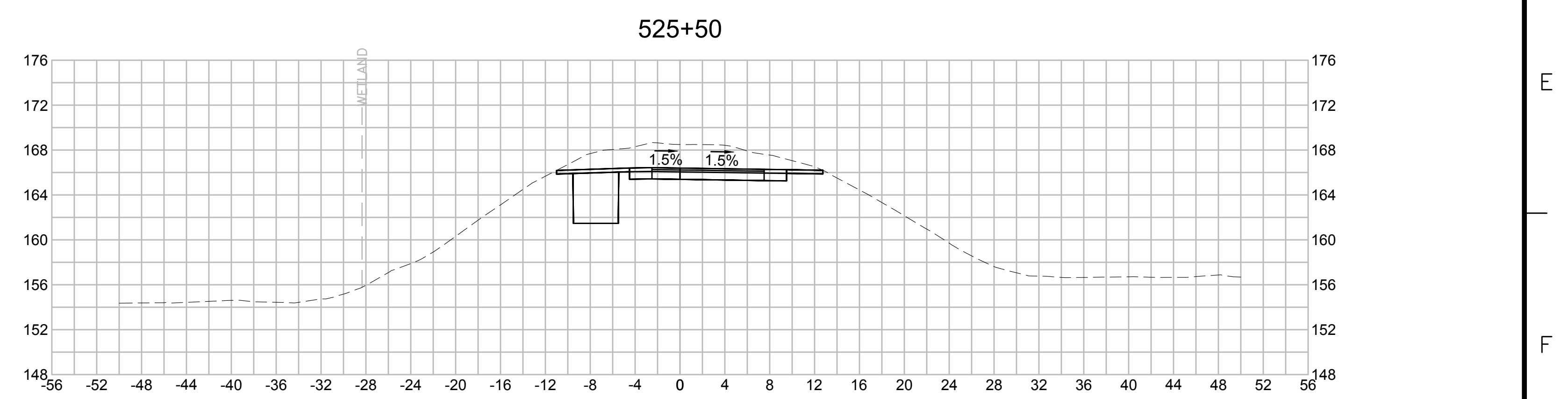
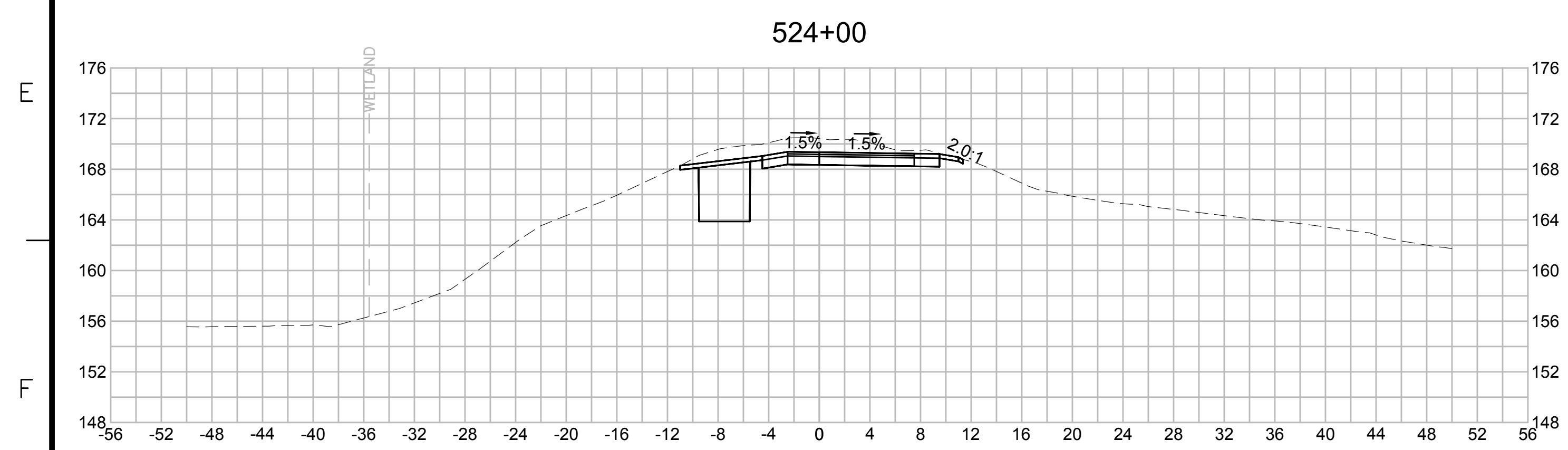
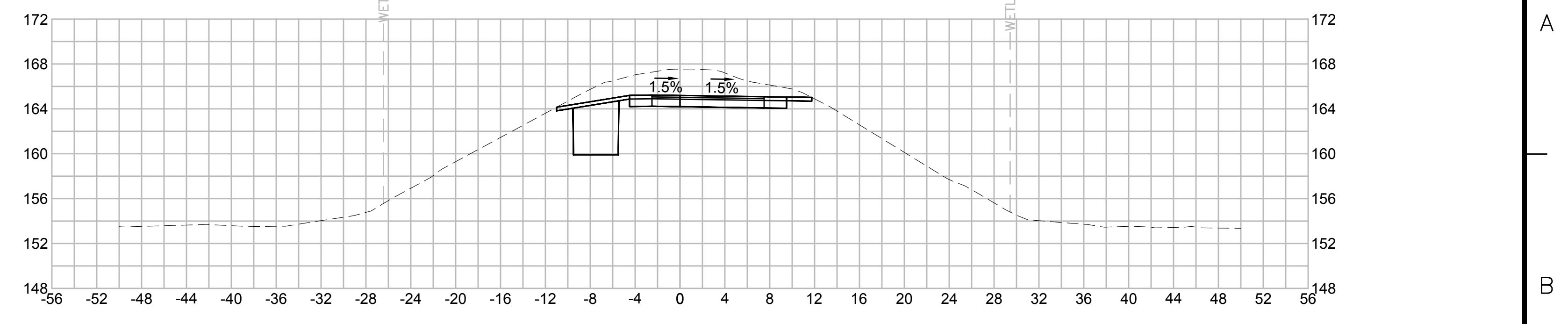
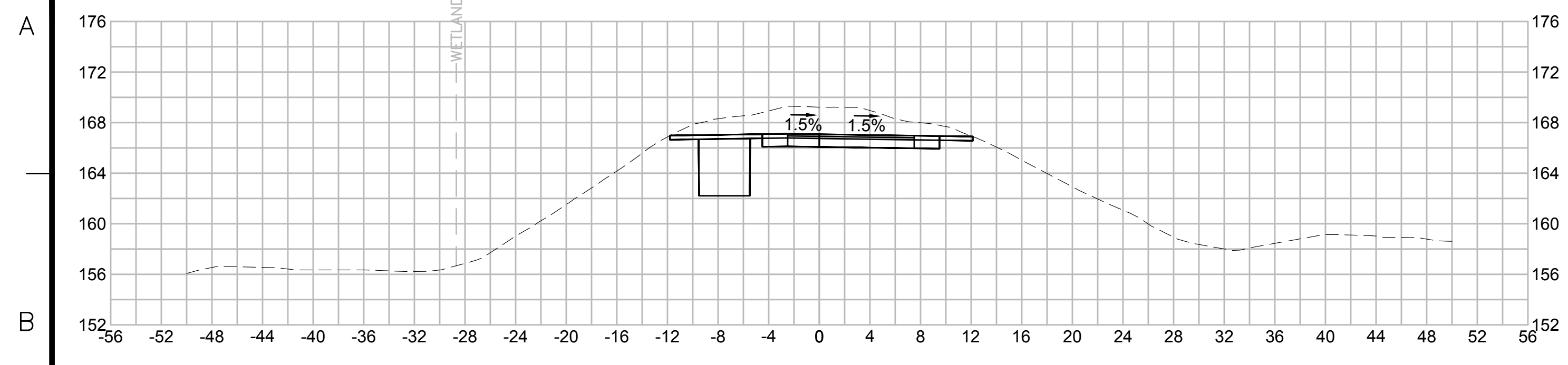
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 2610F316                                     |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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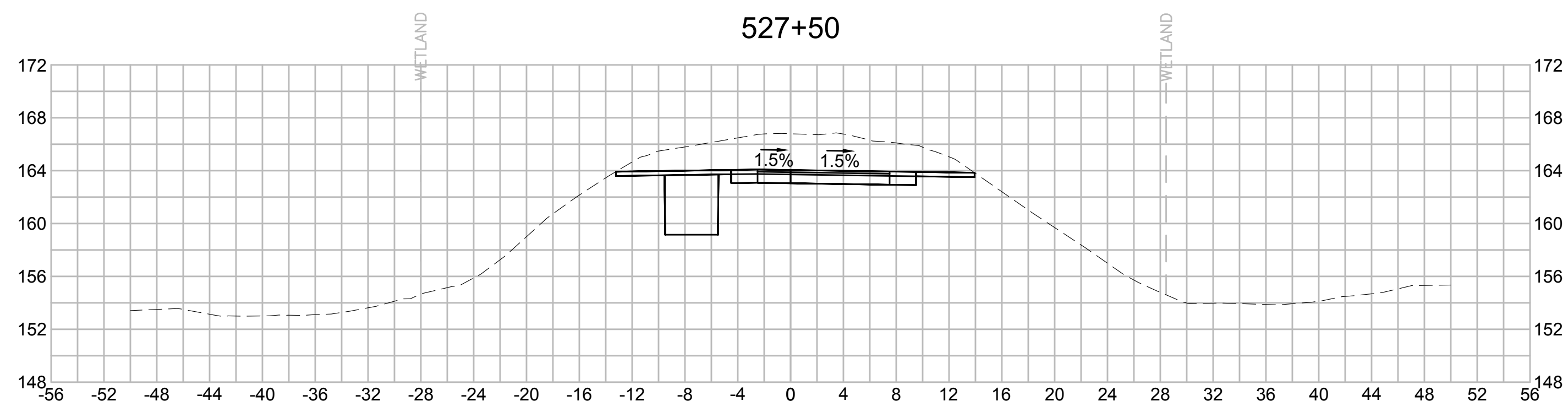
| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 262 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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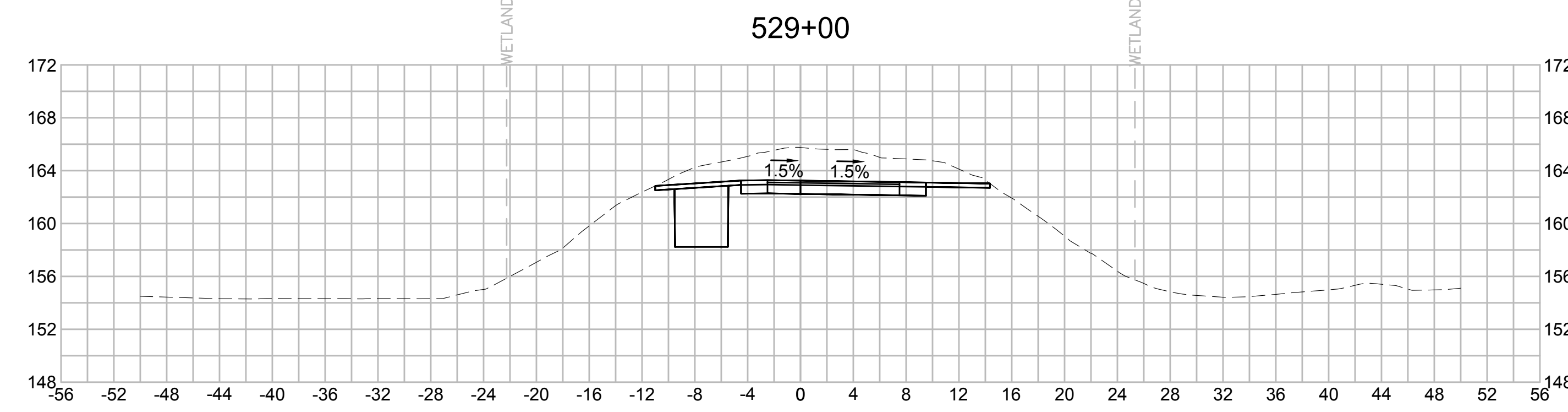


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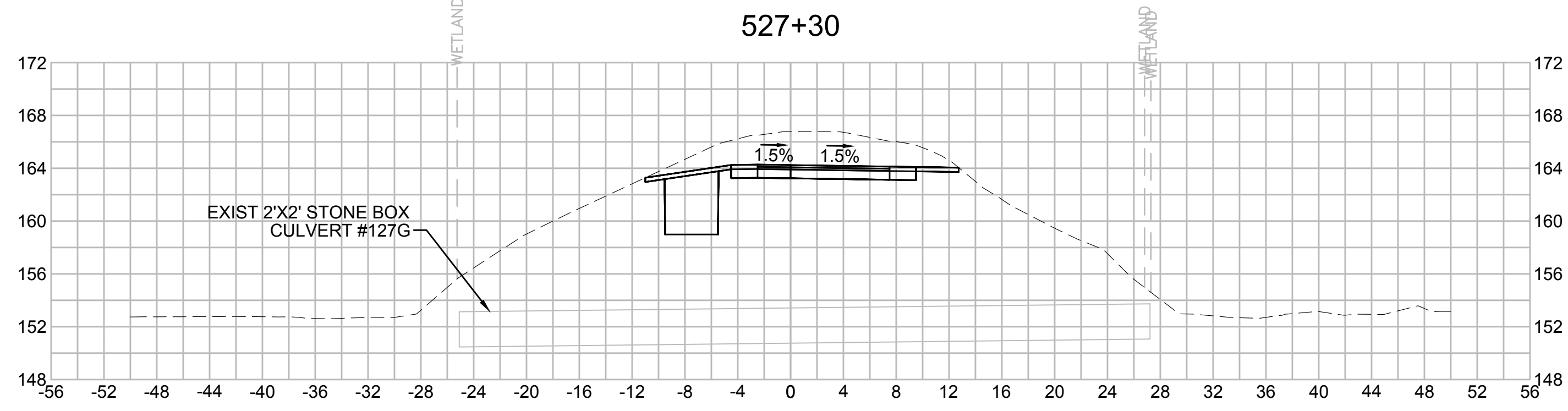


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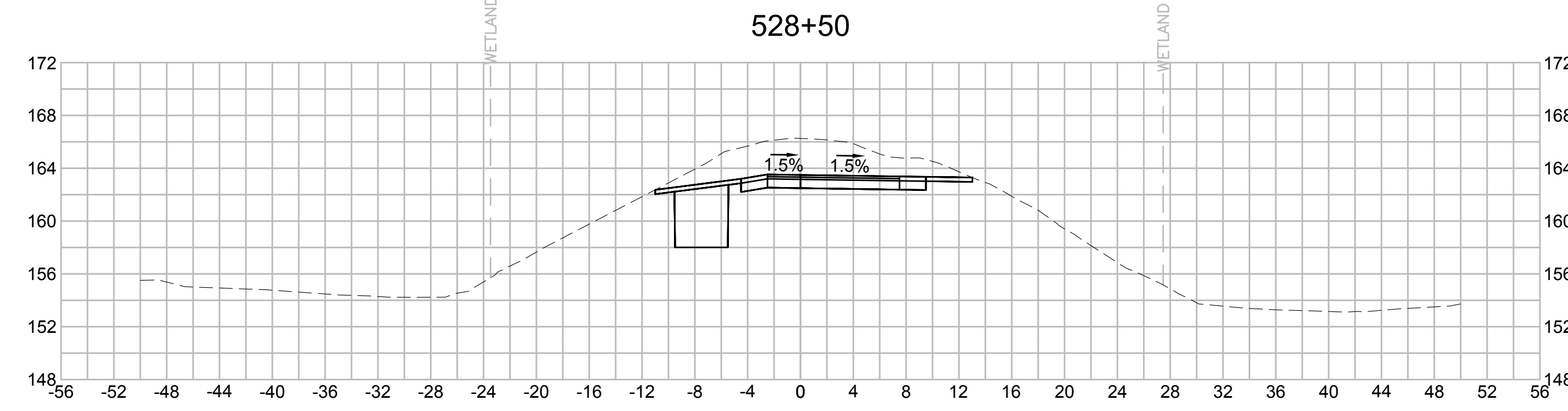


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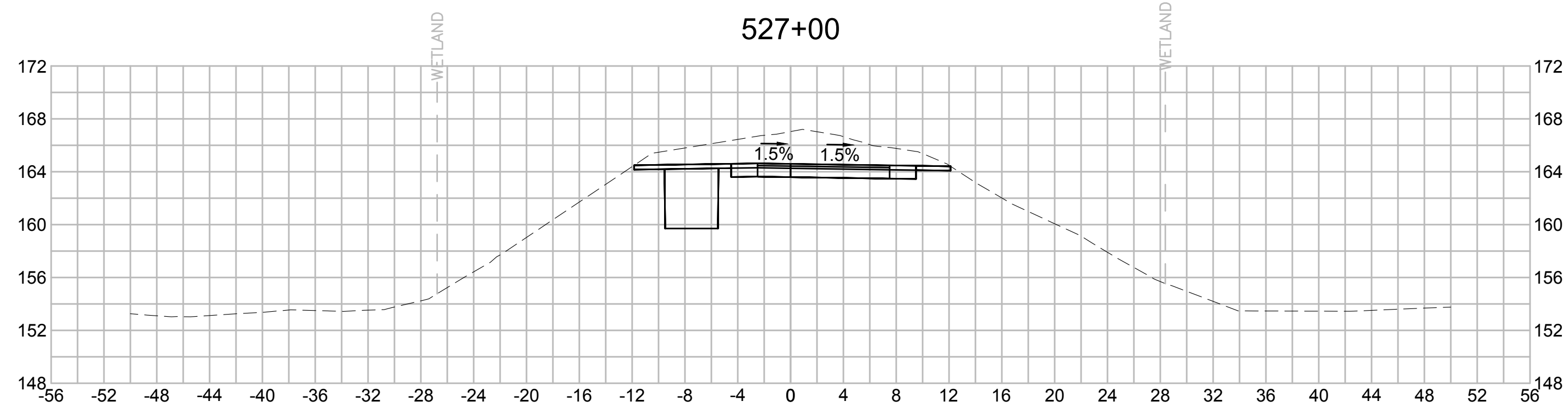


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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 263 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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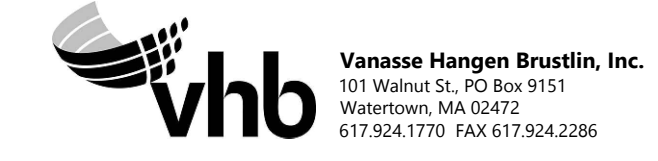
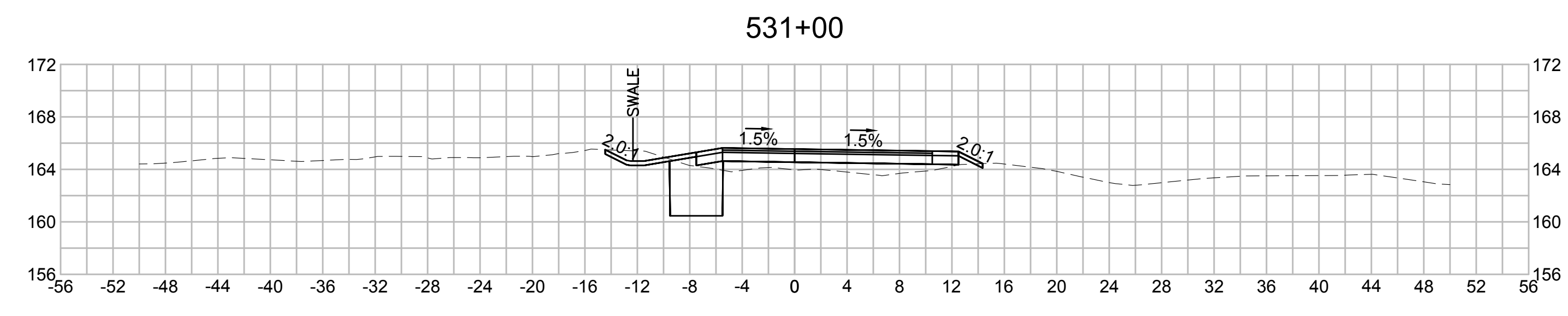
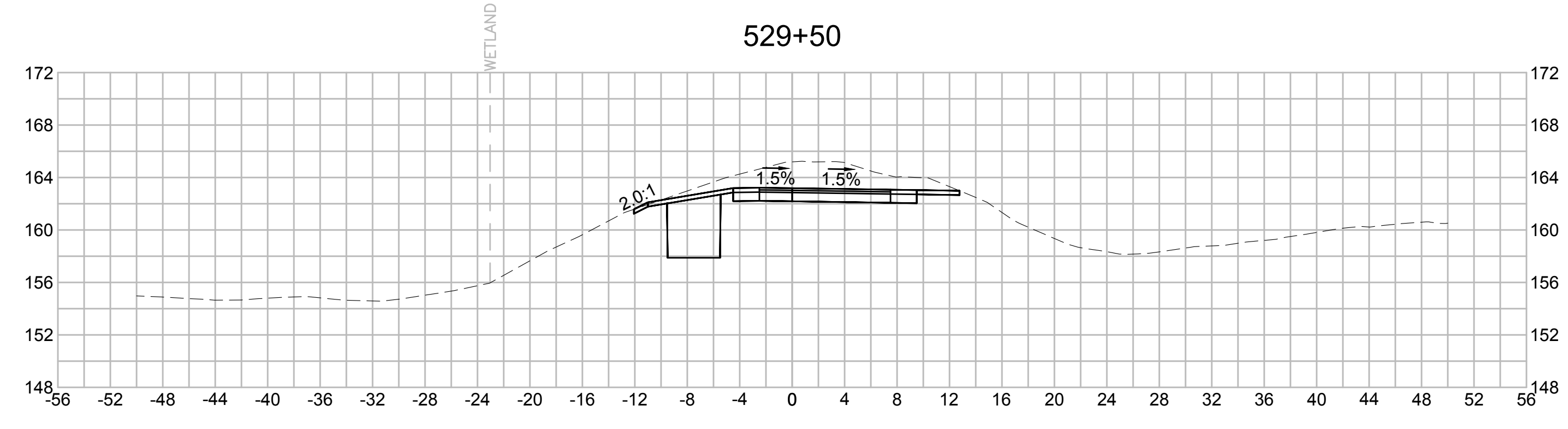
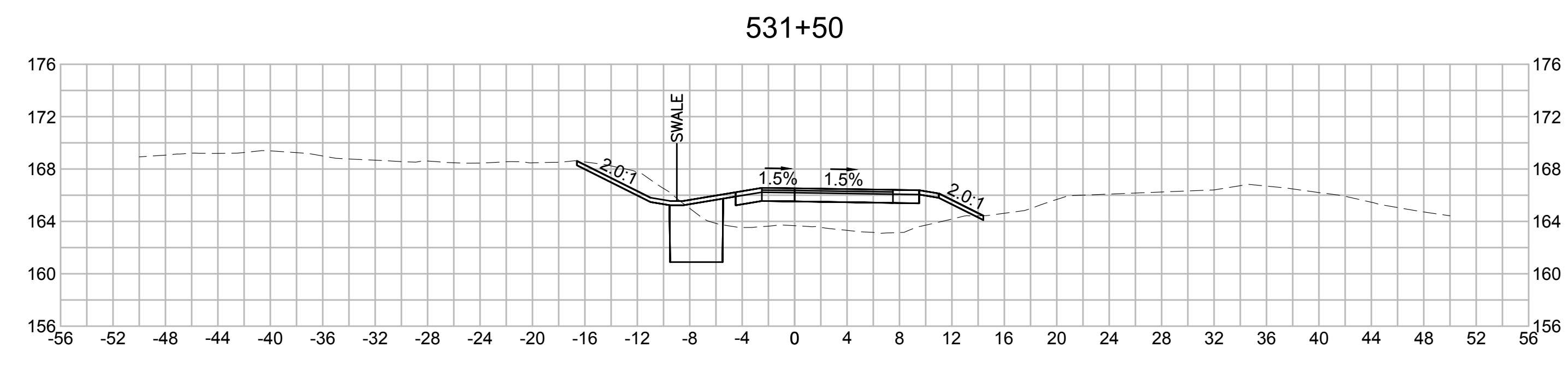
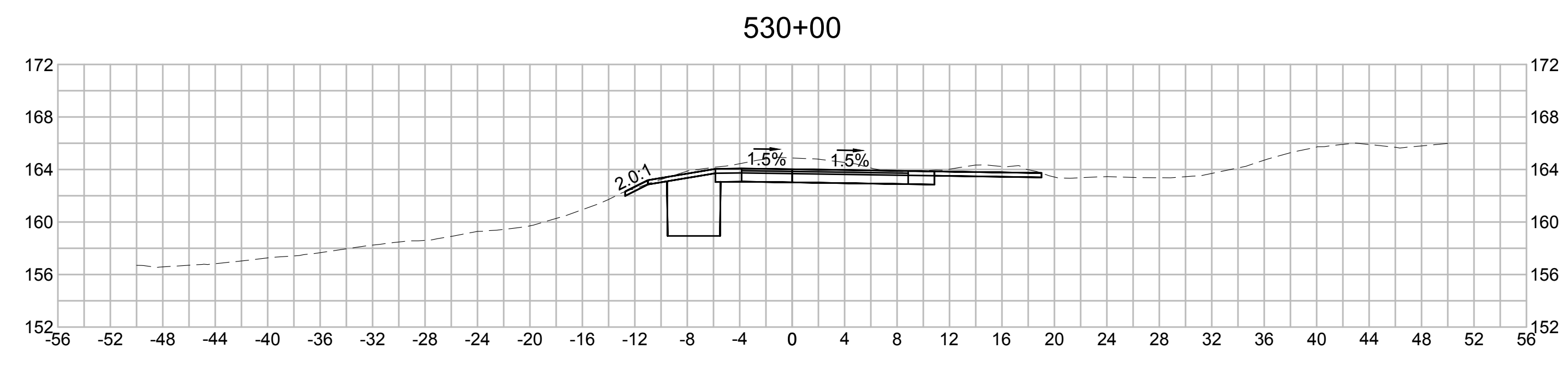
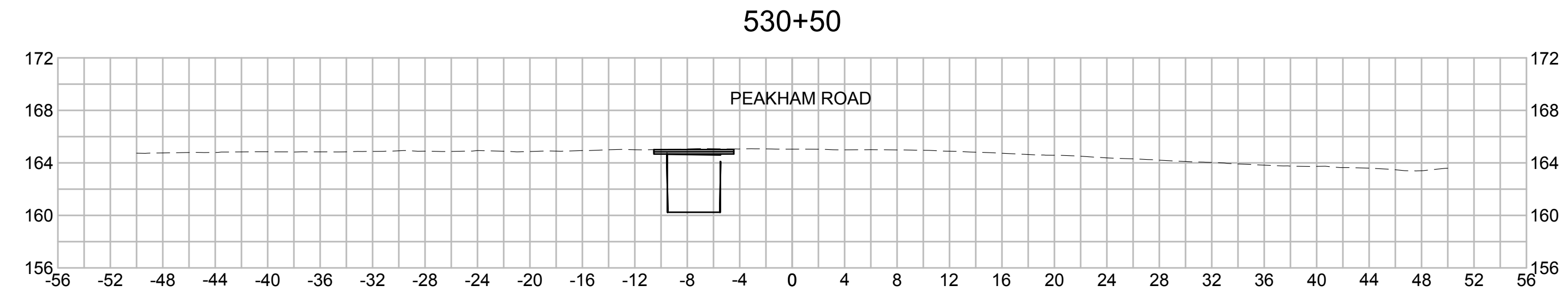
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

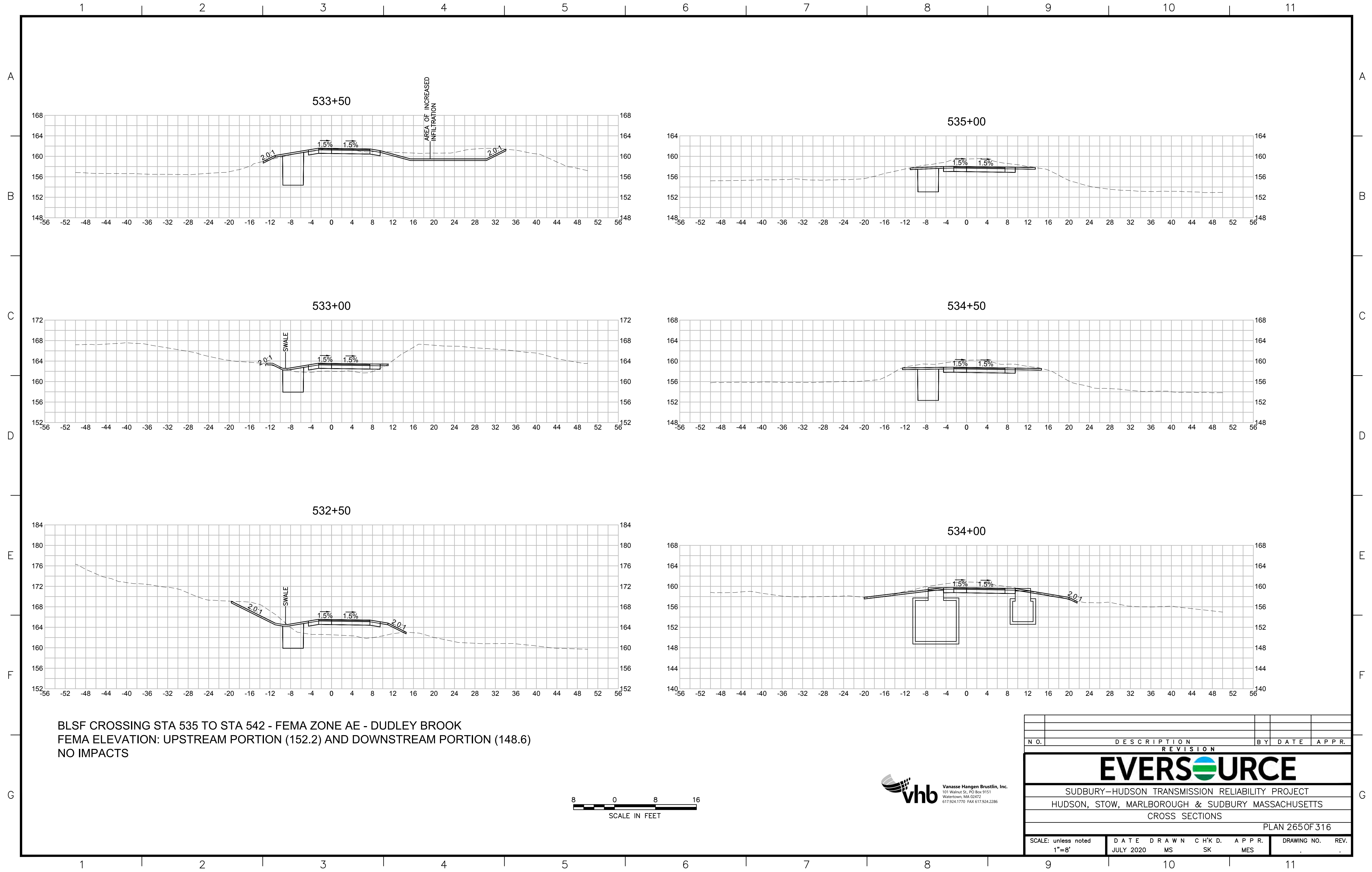
## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

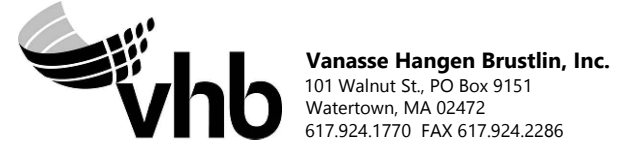
PLAN 264 OF 316

|                              |                   |             |               |                 |                     |
|------------------------------|-------------------|-------------|---------------|-----------------|---------------------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO.<br>REV. |
|------------------------------|-------------------|-------------|---------------|-----------------|---------------------|

1 2 3 4 5 6 7 8 9 10 11

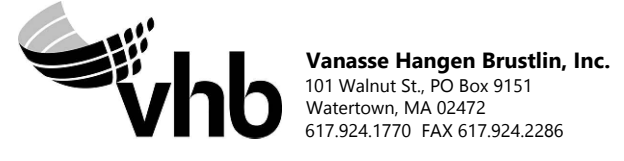
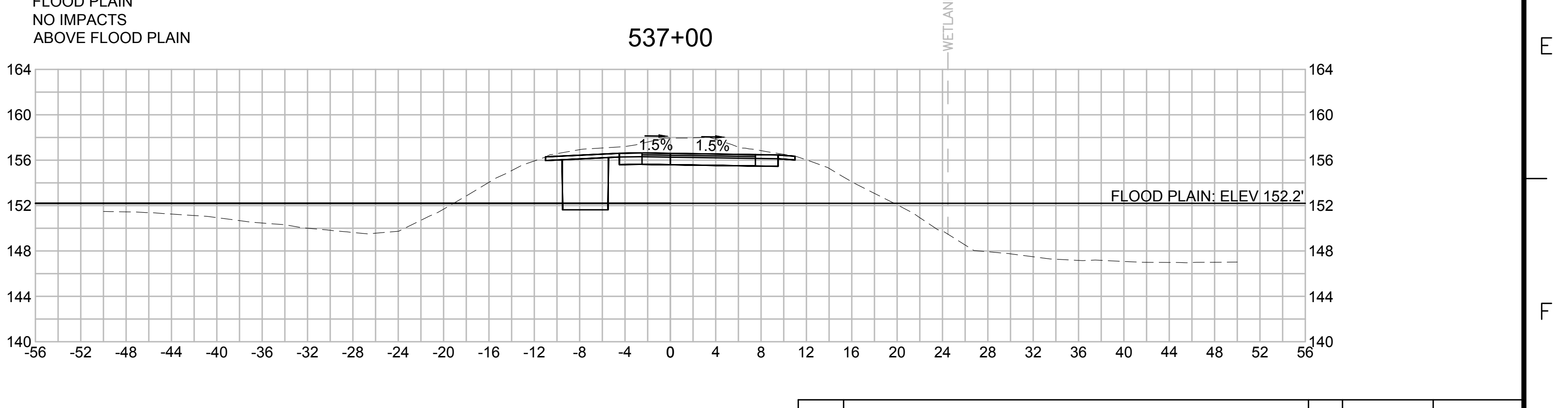
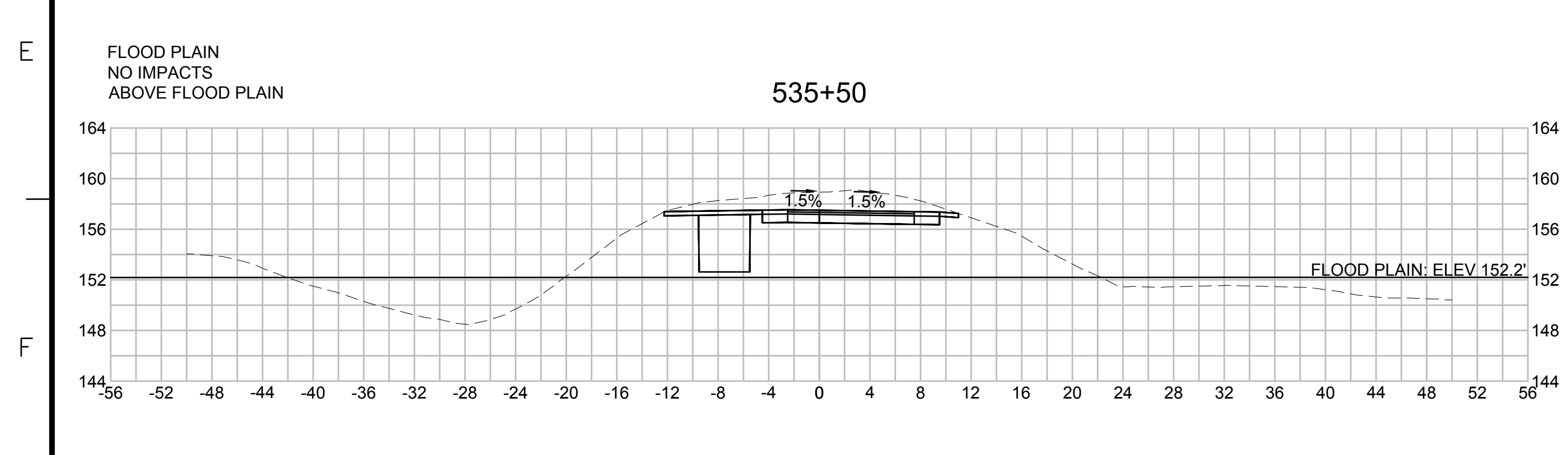
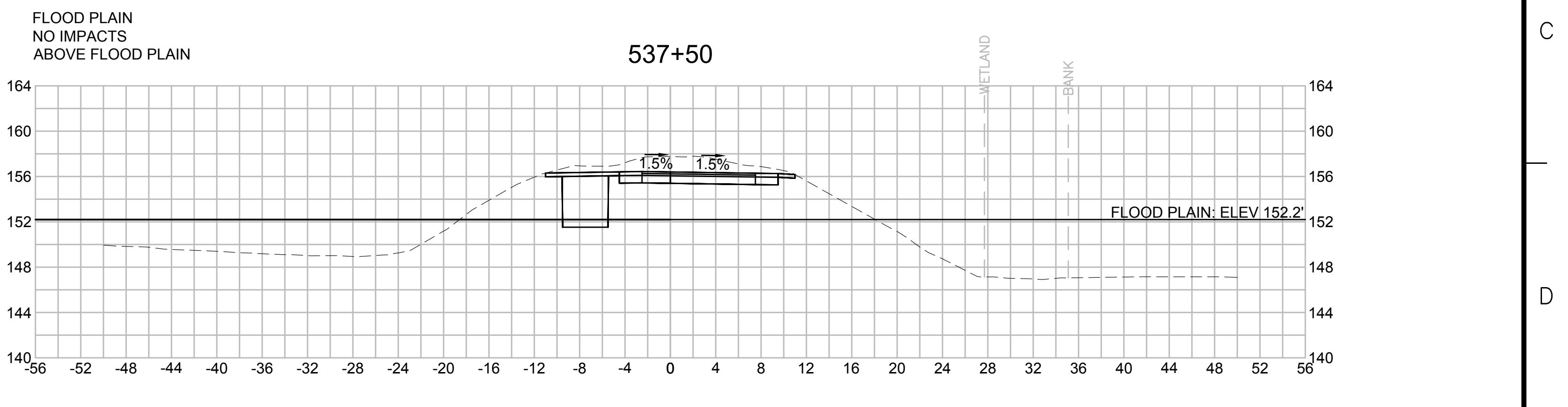
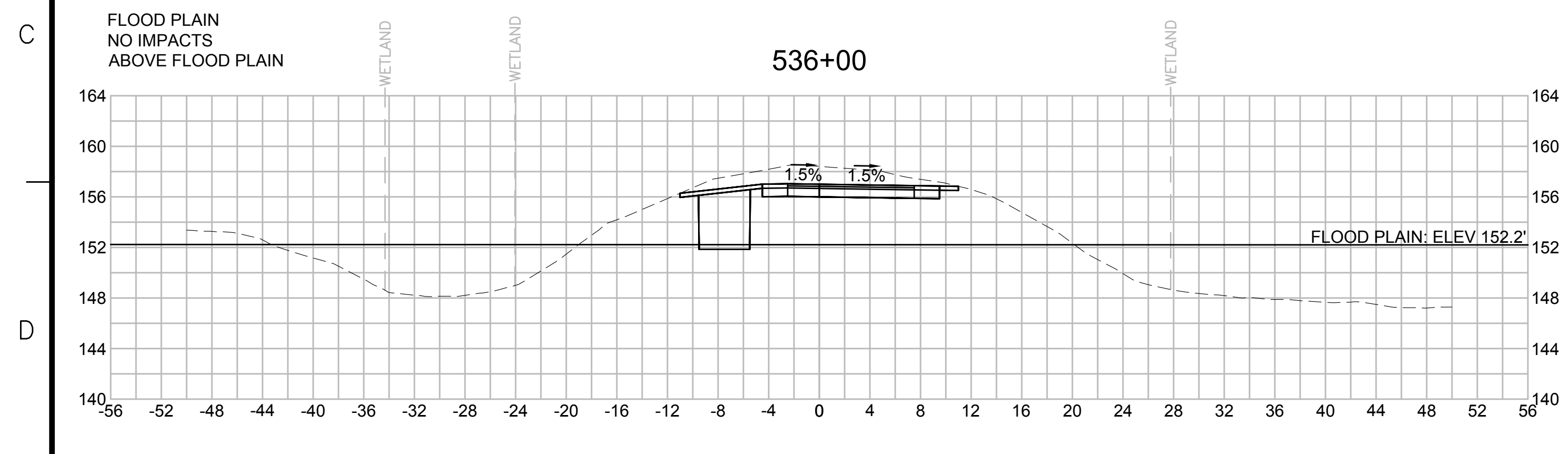
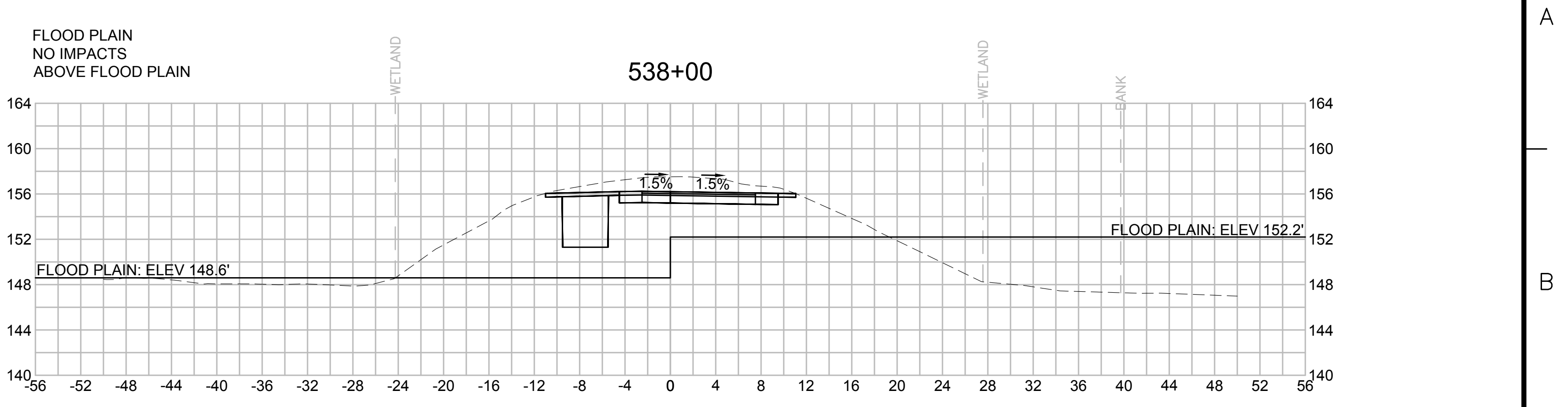
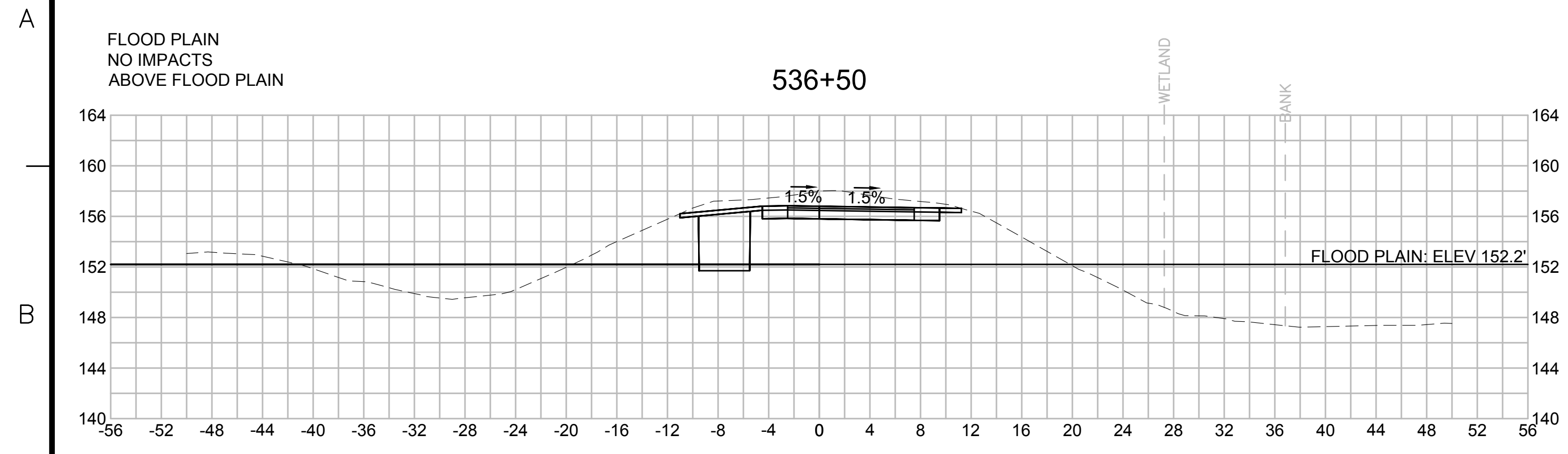


BLSF CROSSING STA 535 TO STA 542 - FEMA ZONE AE - DUDLEY BROOK  
 FEMA ELEVATION: UPSTREAM PORTION (152.2) AND DOWNSTREAM PORTION (148.6)  
 NO IMPACTS



| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 265 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

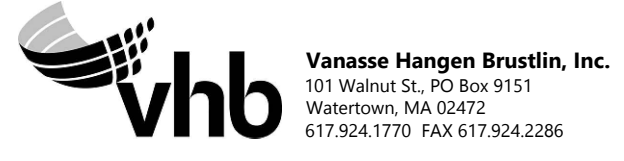
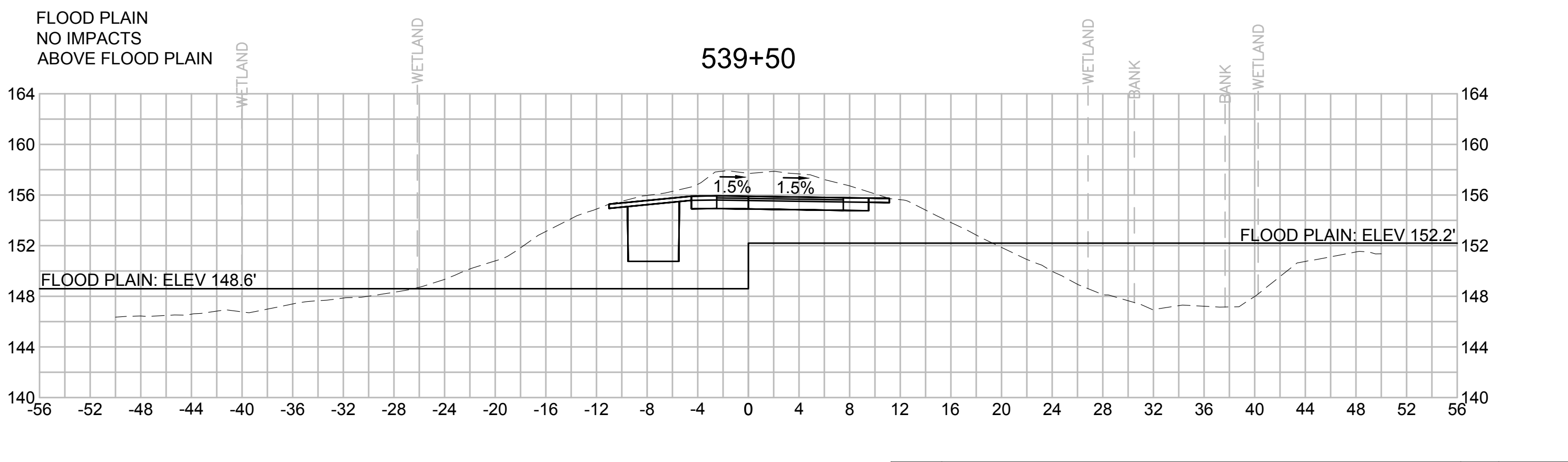
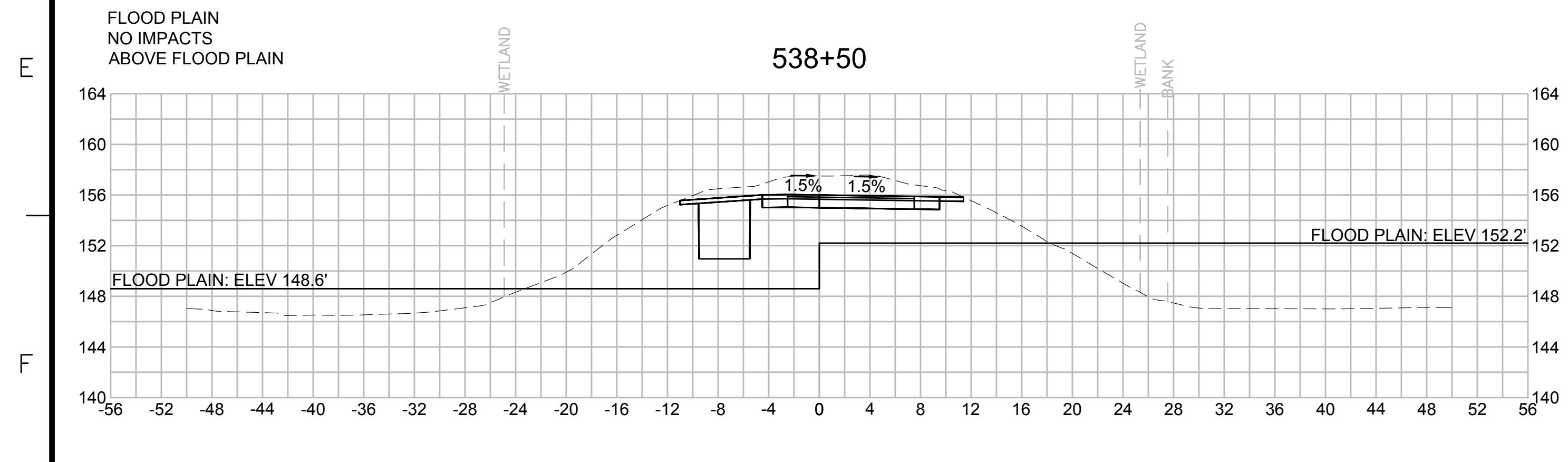
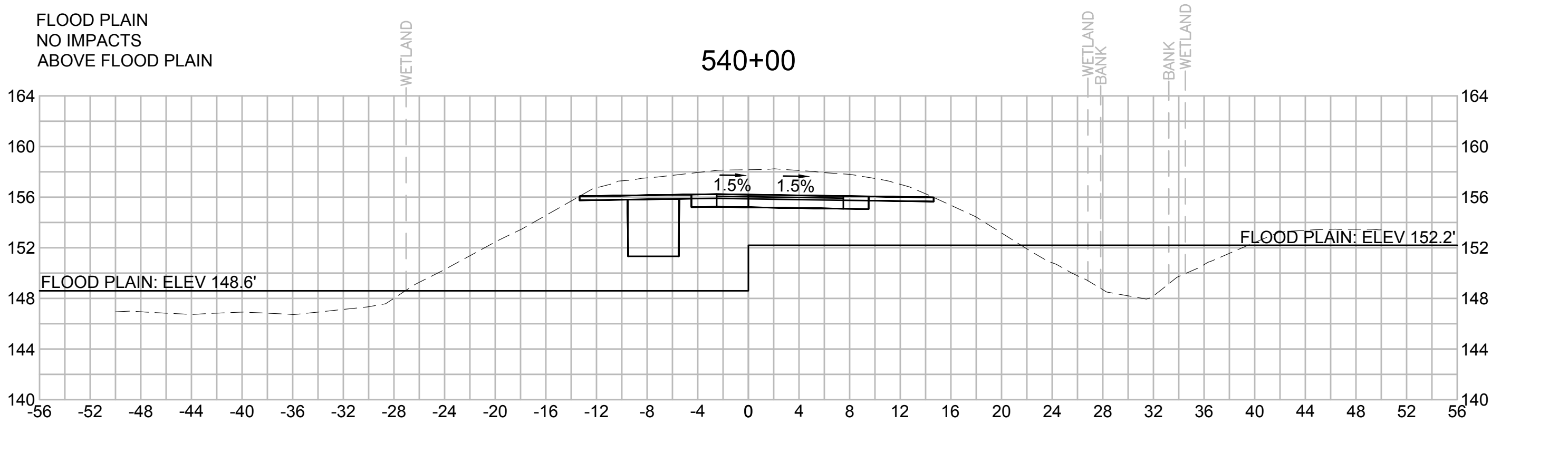
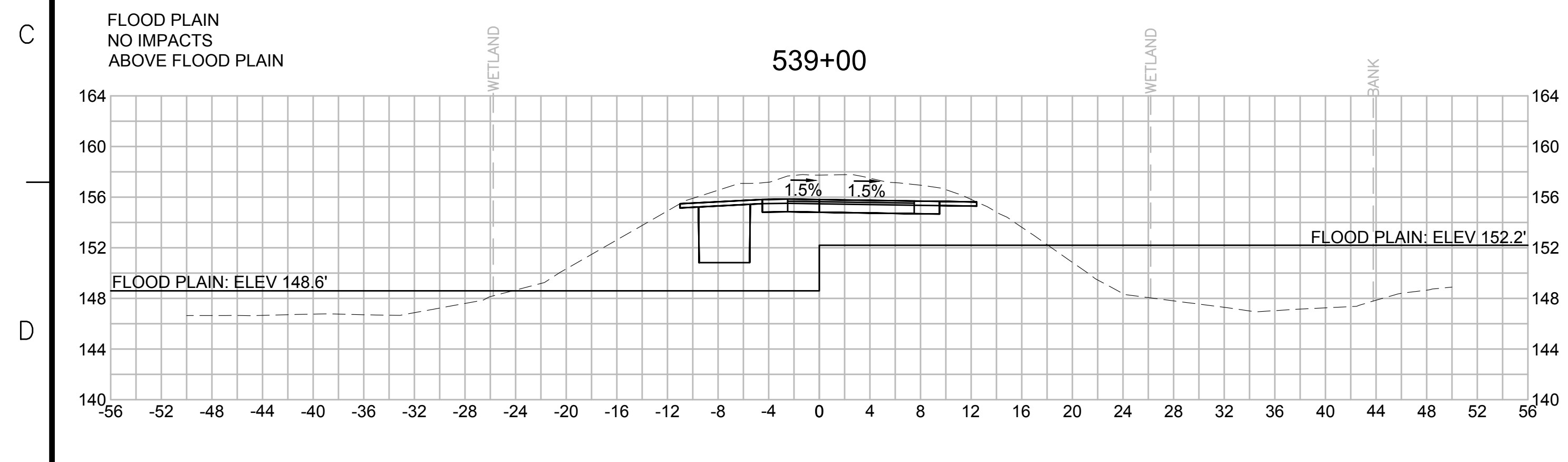
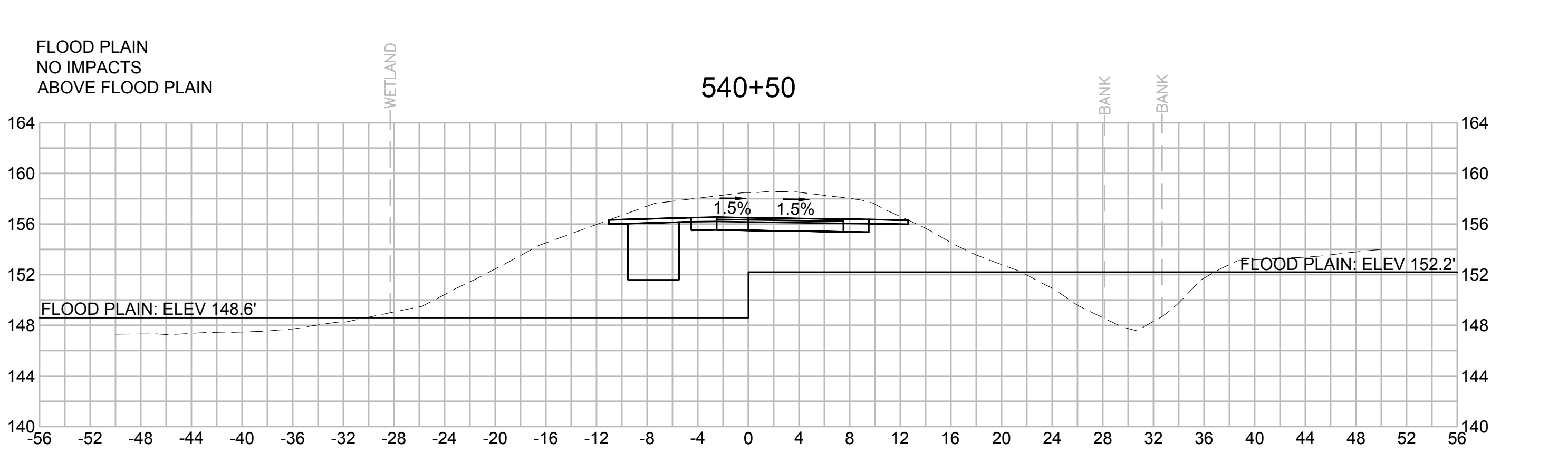
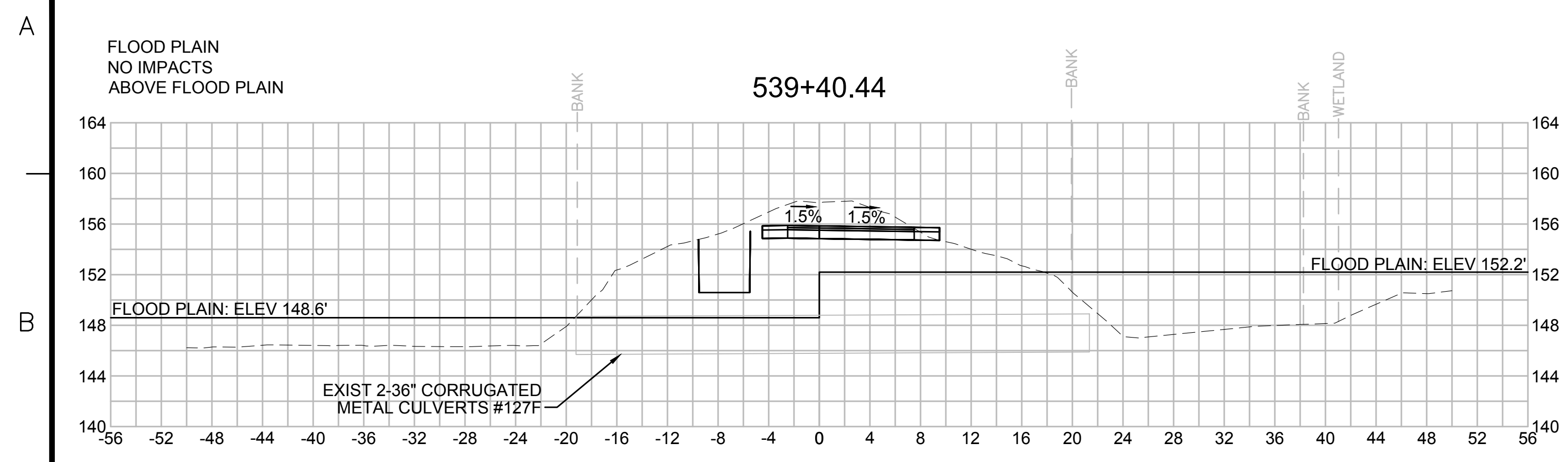
1 2 3 4 5 6 7 8 9 10 11



| N O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 266 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 267 OF 316

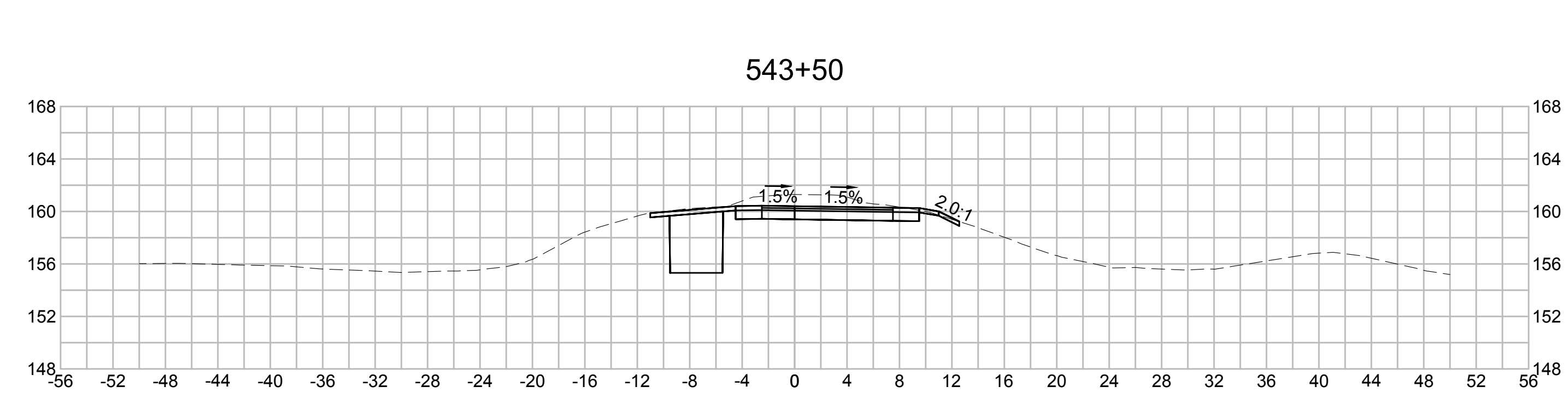
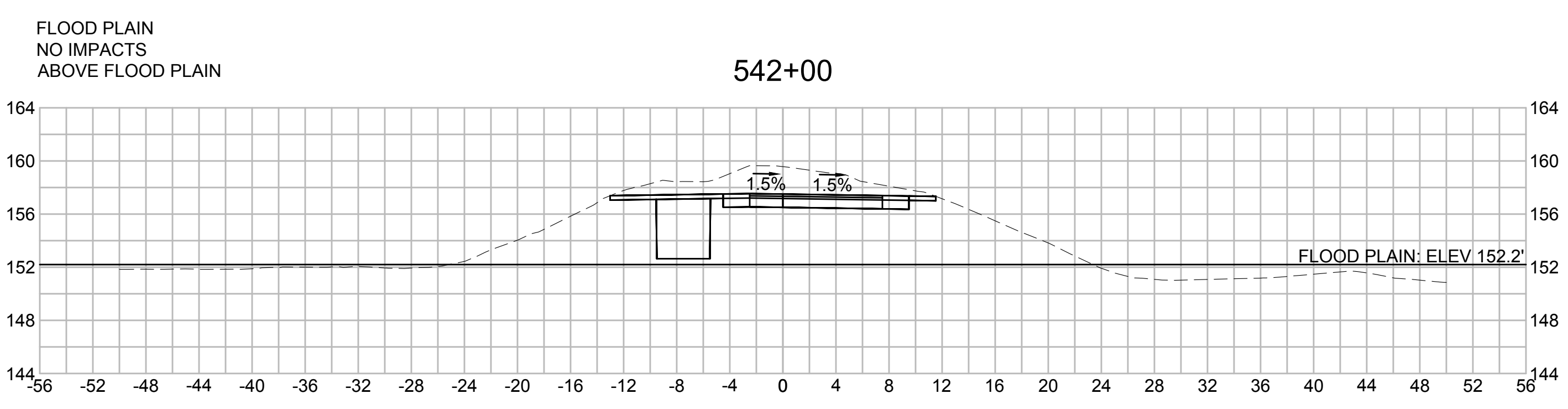
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| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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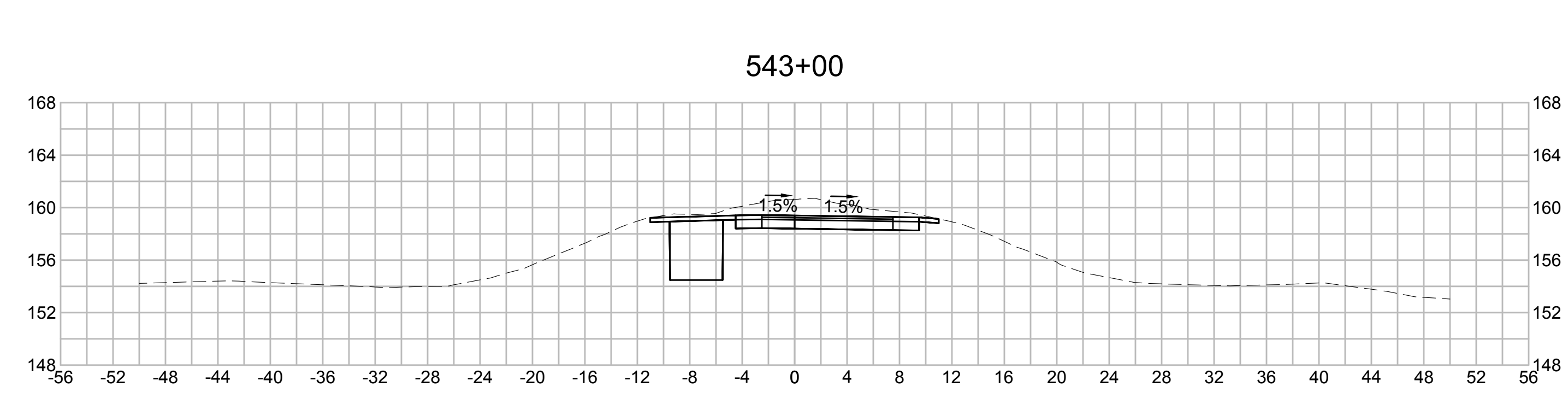
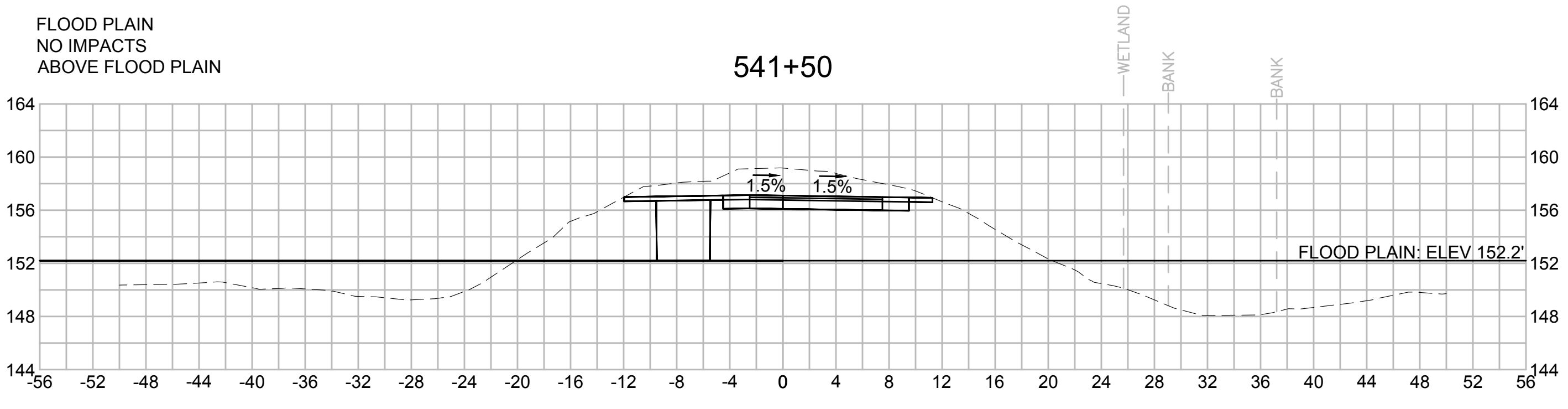
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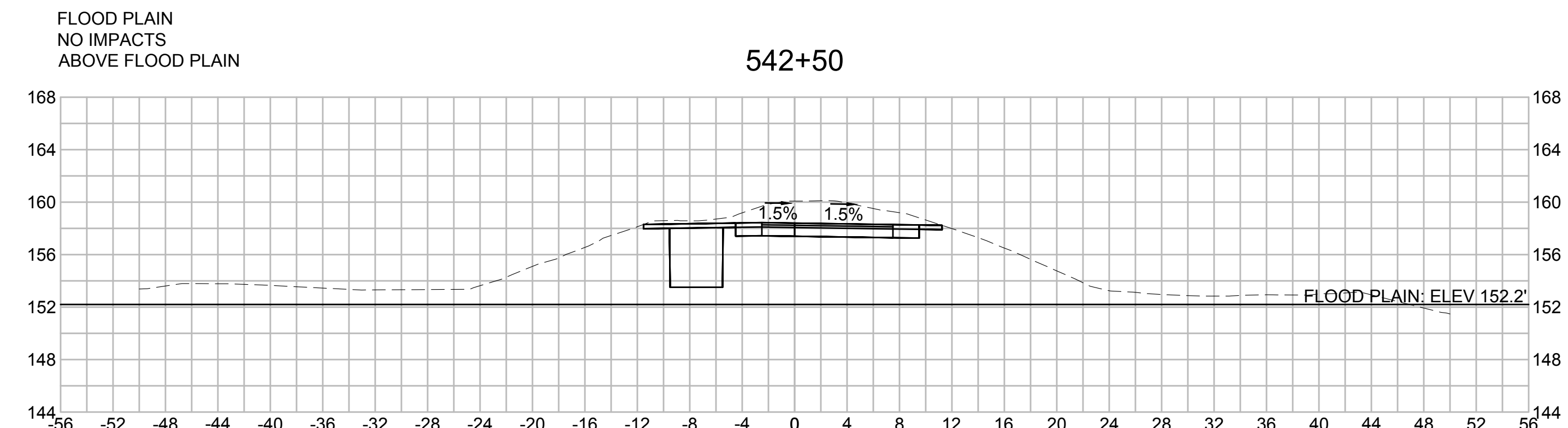
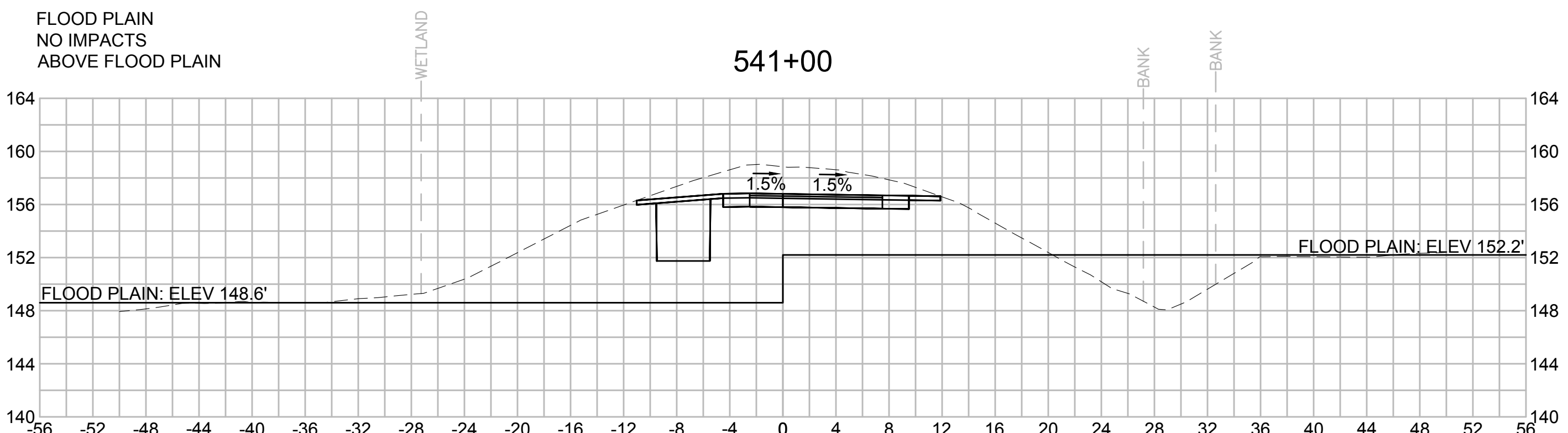
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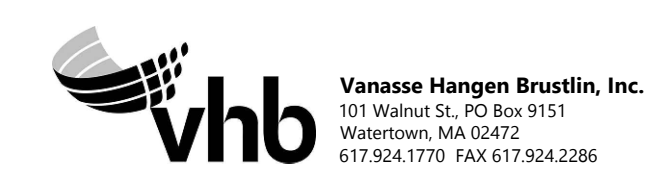
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 268 OF 316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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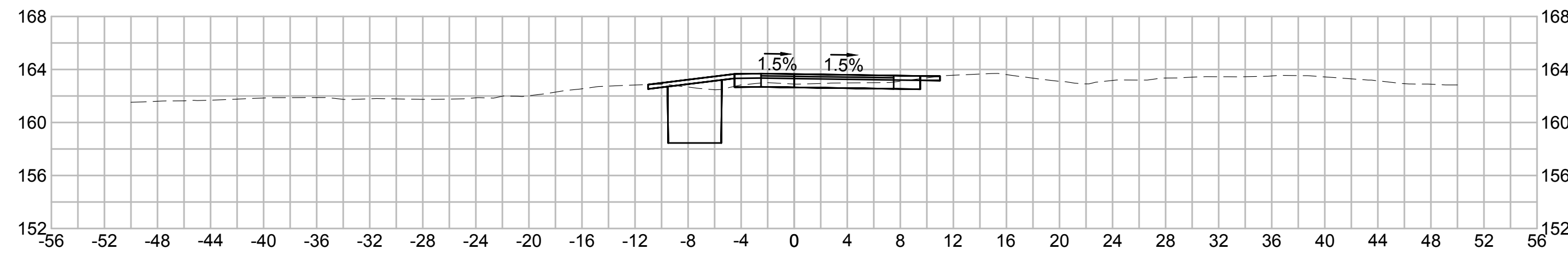
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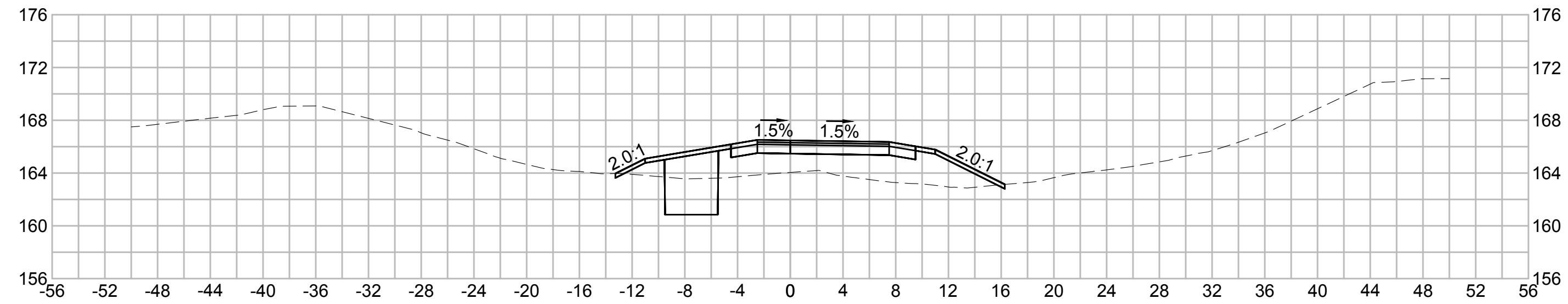
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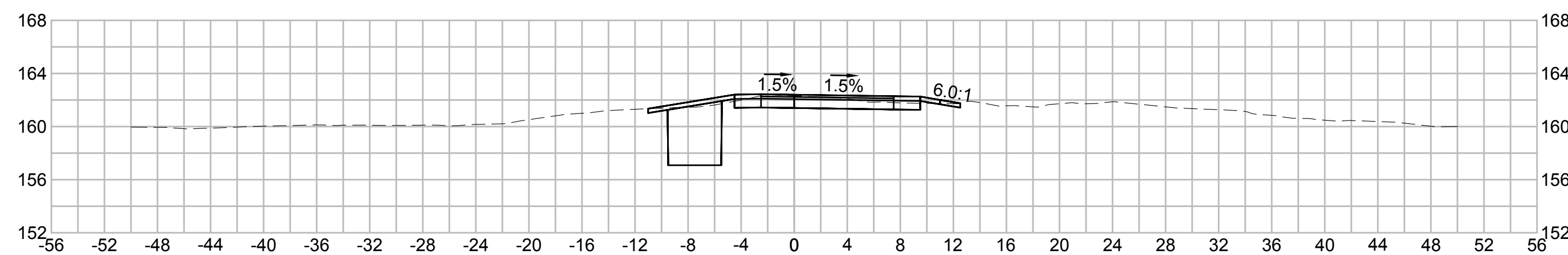
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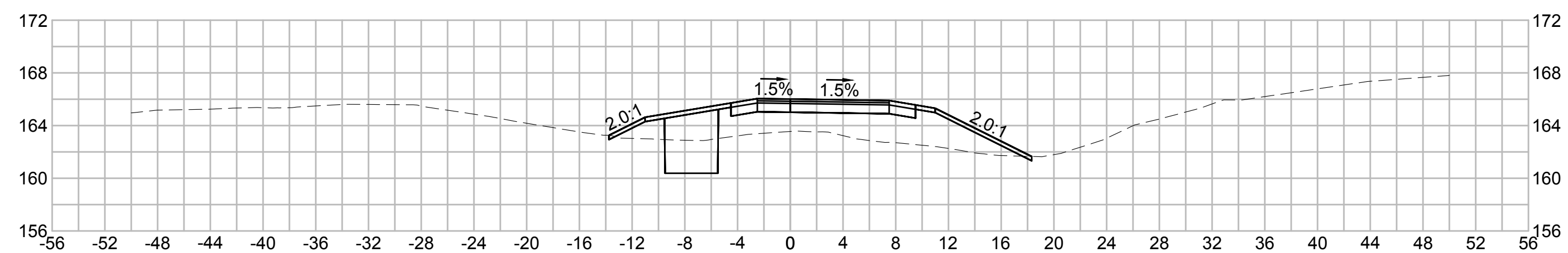
546+50



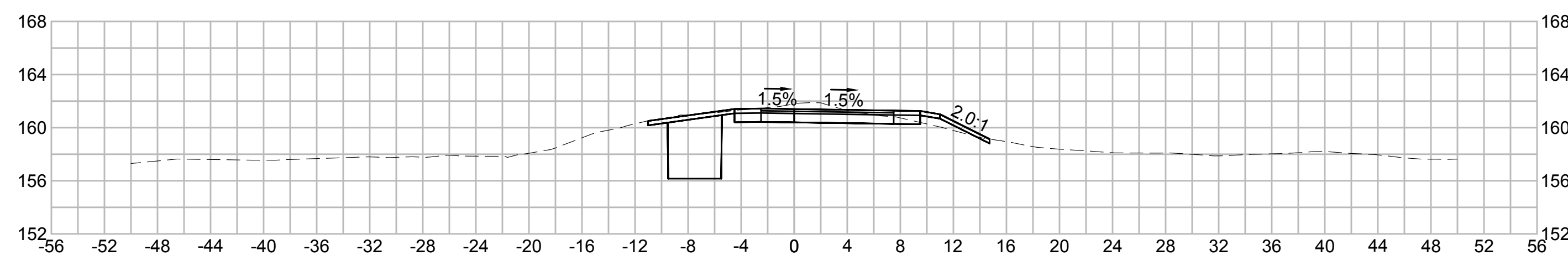
544+50



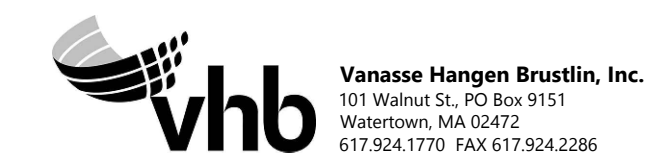
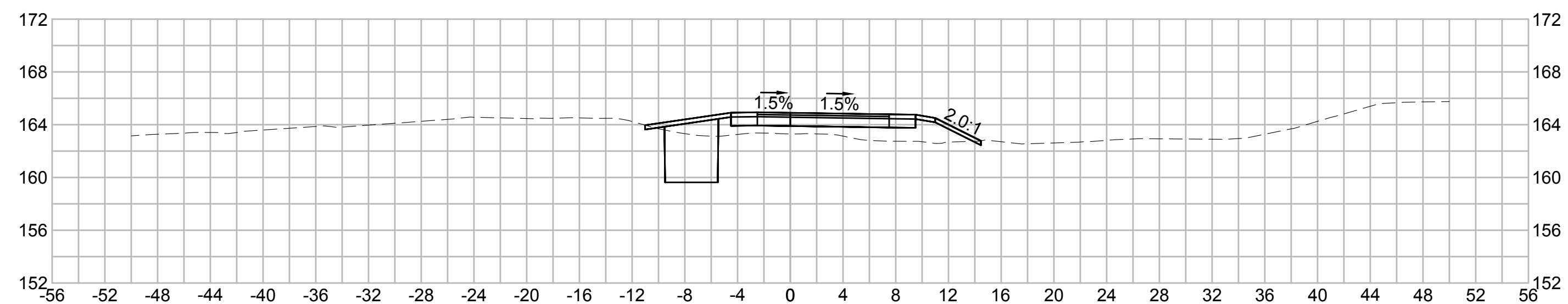
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544+00



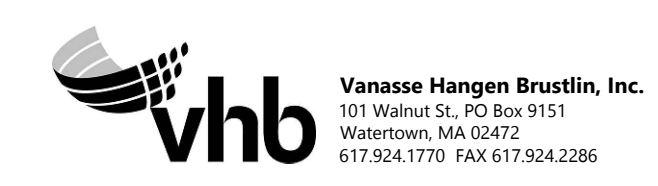
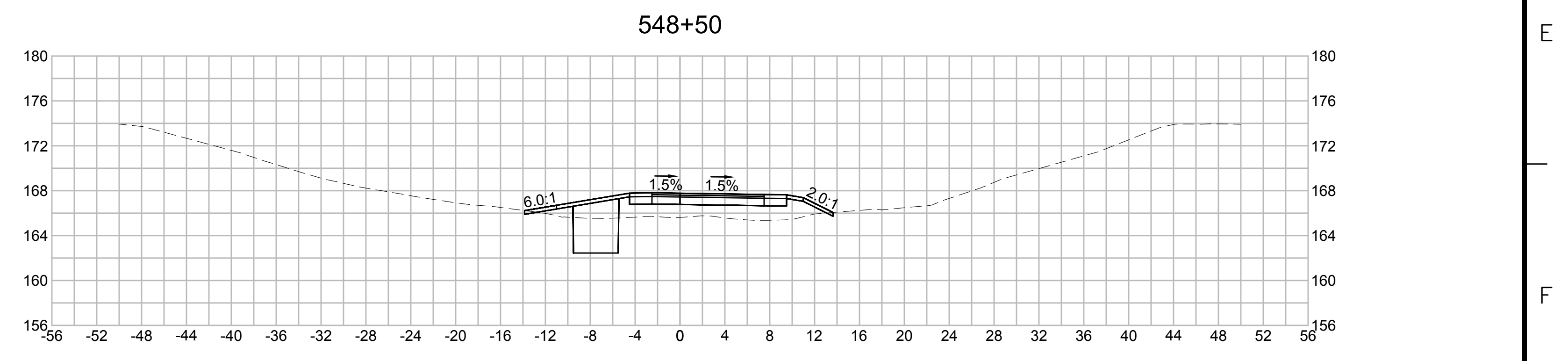
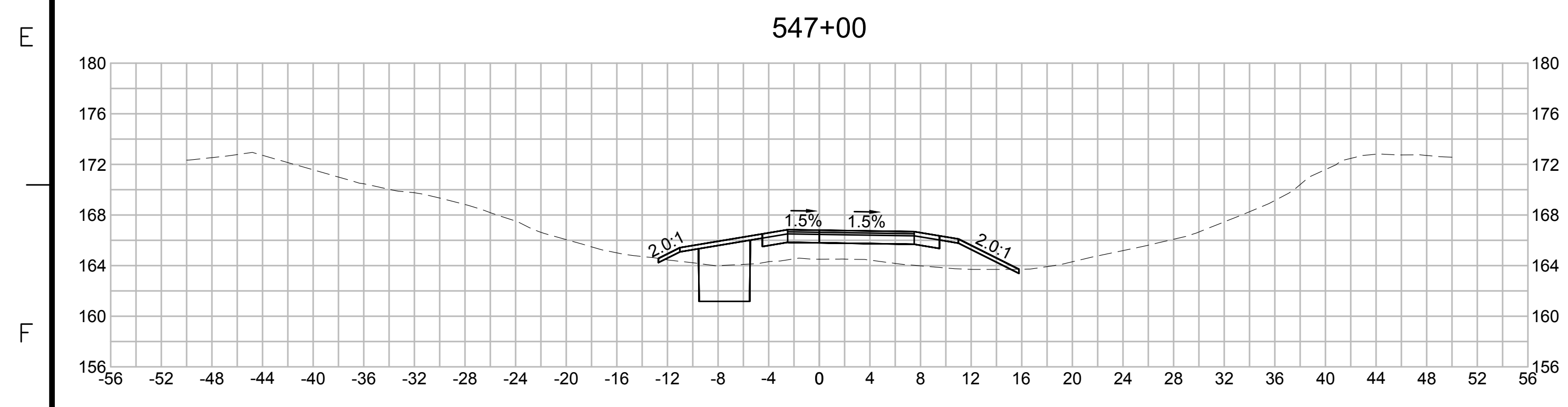
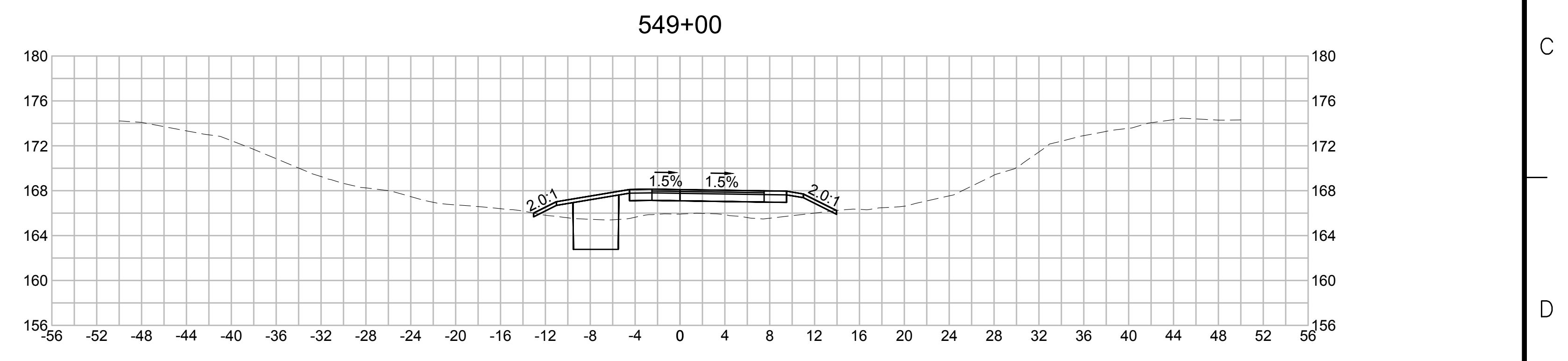
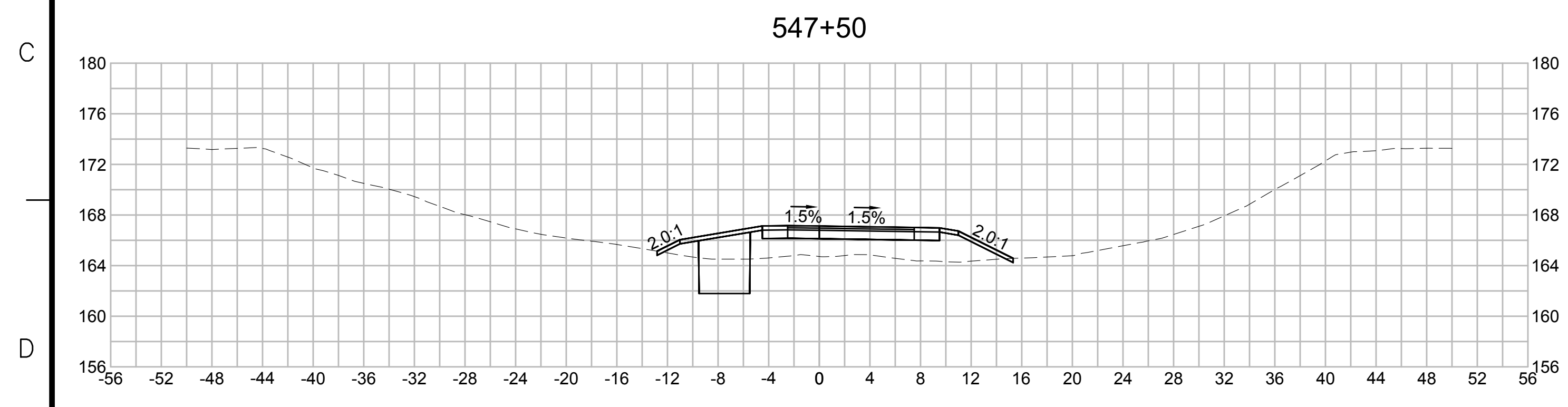
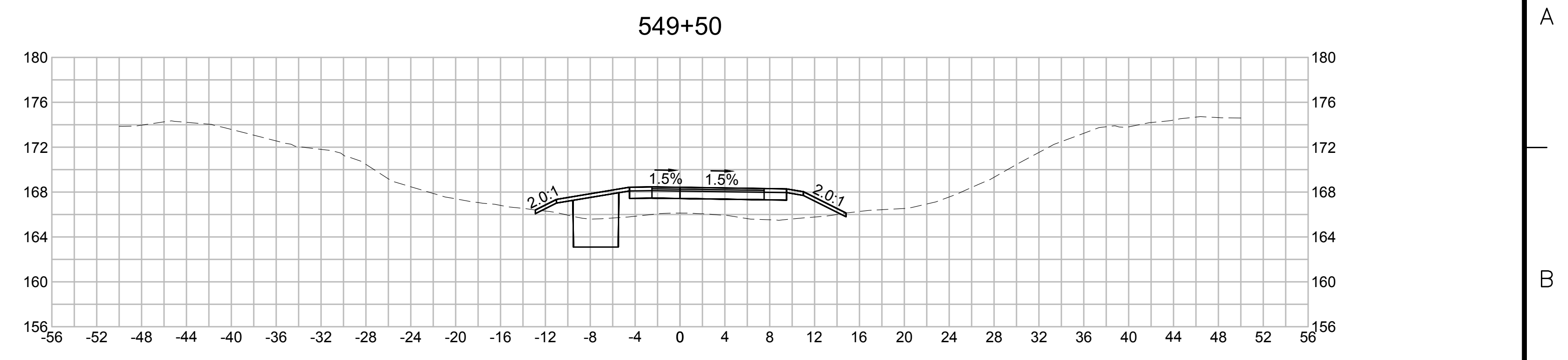
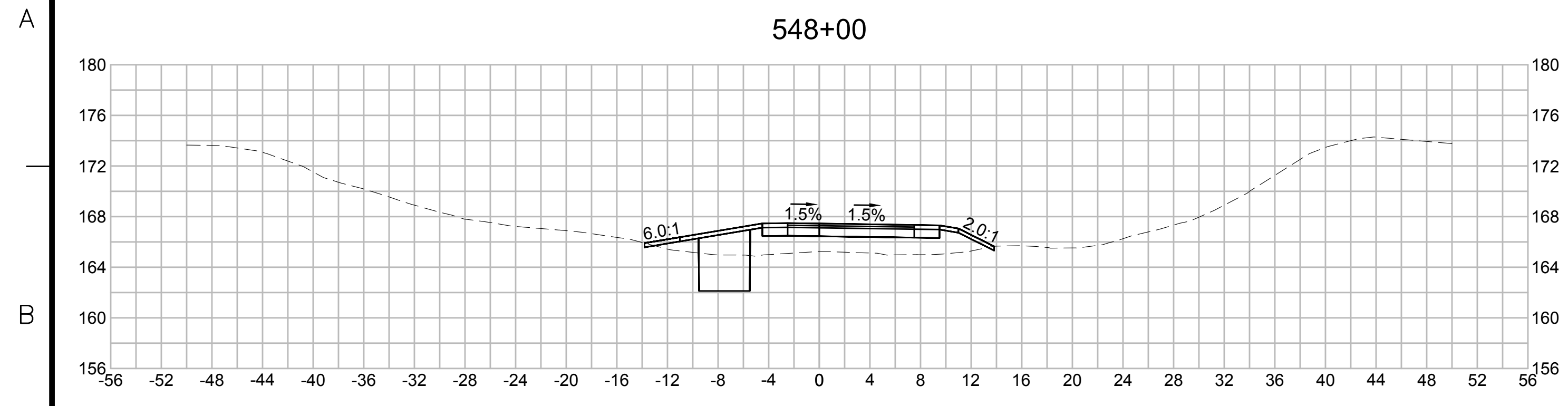
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.        |
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|   | REVISION          |             |               |              |
| <b>EVERSOURCE</b>                                 |                   |             |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |              |
| CROSS SECTIONS                                    |                   |             |               |              |
| PLAN 269 OF 316                                   |                   |             |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K'D.<br>SK | APPR.<br>MES |
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|      | REVISION    |    |      |       |

## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 2700F316

|                              |                   |             |                |               |             |      |
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| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K'D.<br>SK | APP'R.<br>MES | DRAWING NO. | REV. |
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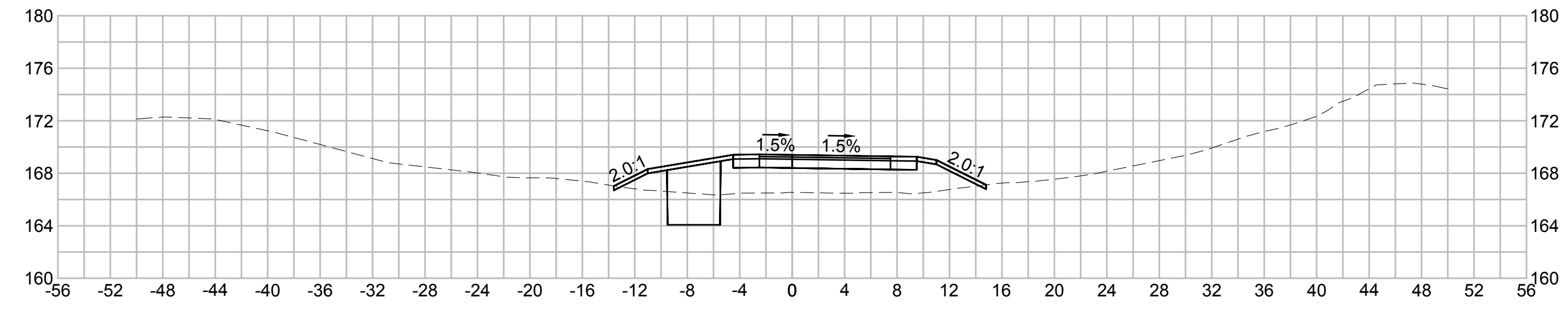


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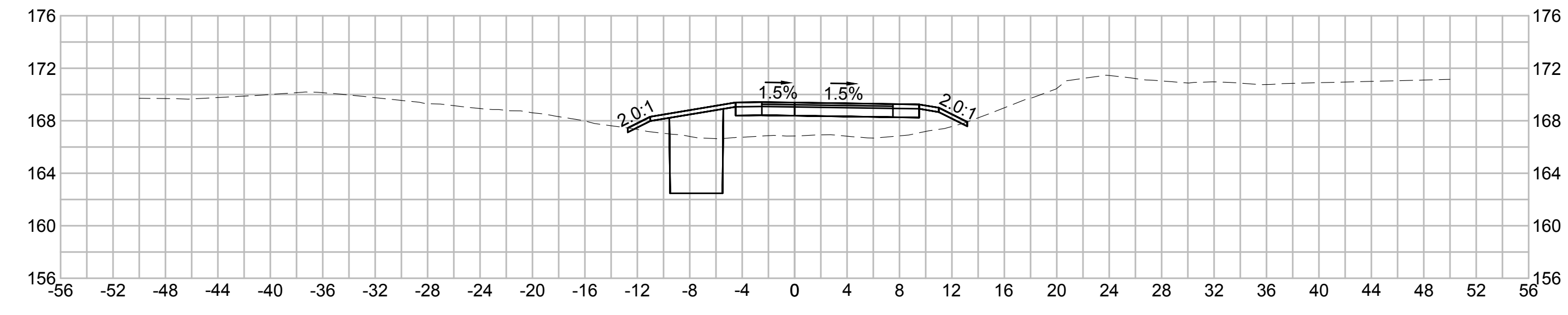
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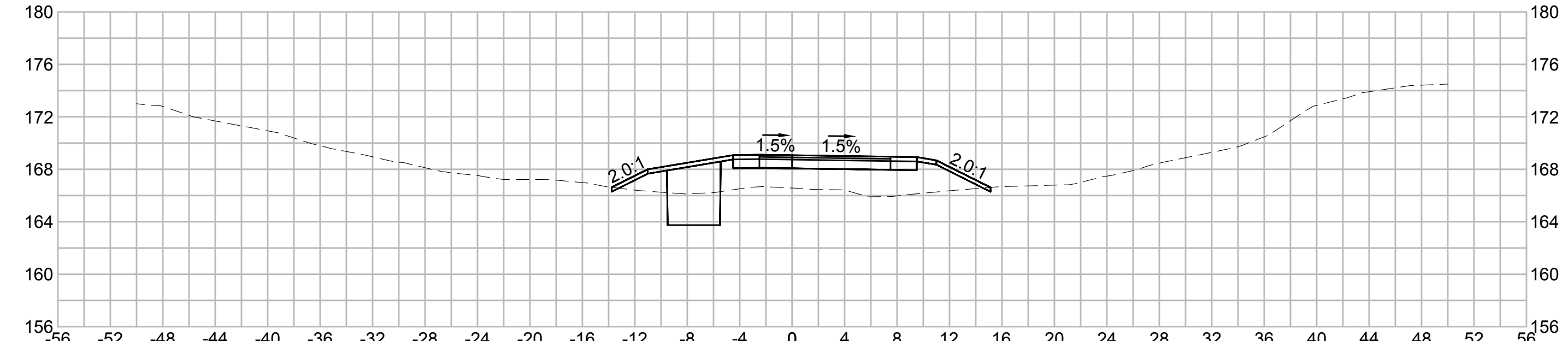
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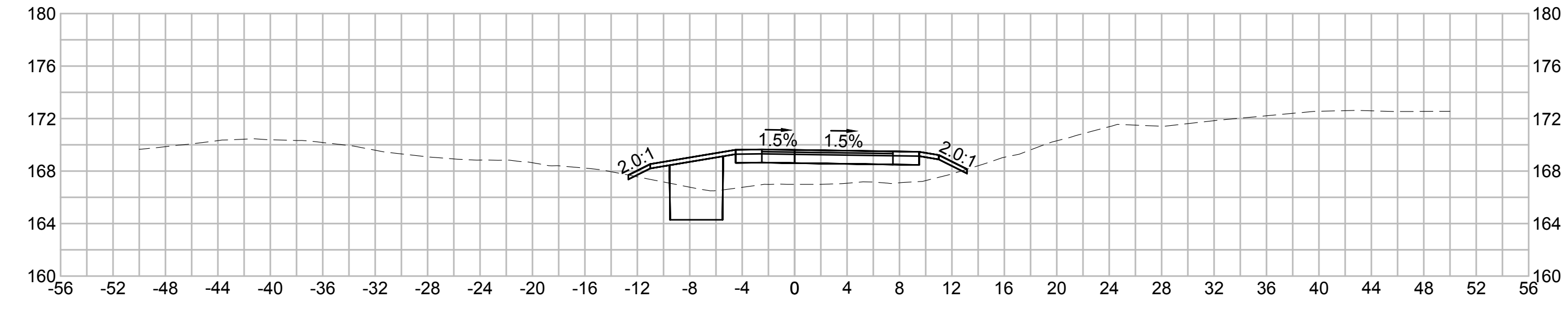
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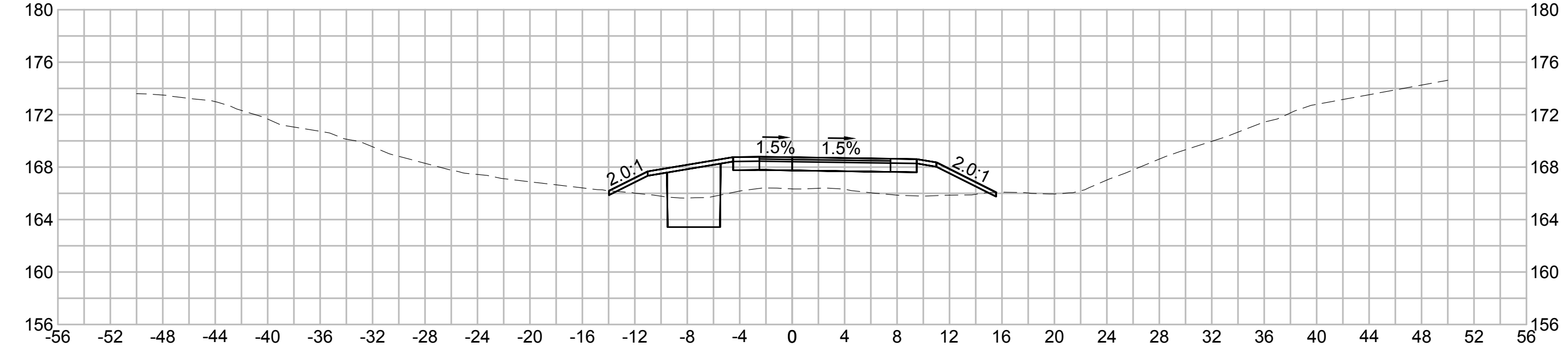
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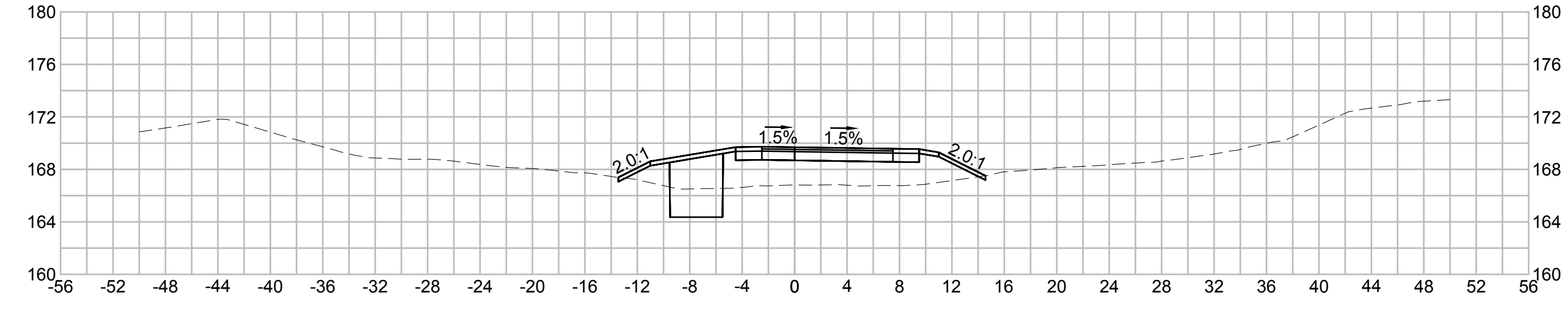
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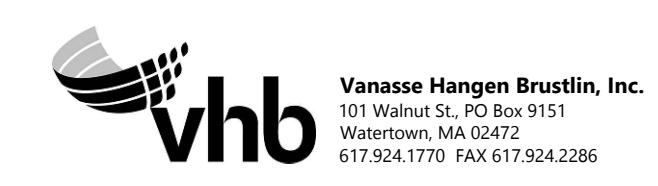


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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS  
 PLAN 2710F316

|                              |                   |             |               |                 |                  |           |
|------------------------------|-------------------|-------------|---------------|-----------------|------------------|-----------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO.<br>. | REV.<br>. |
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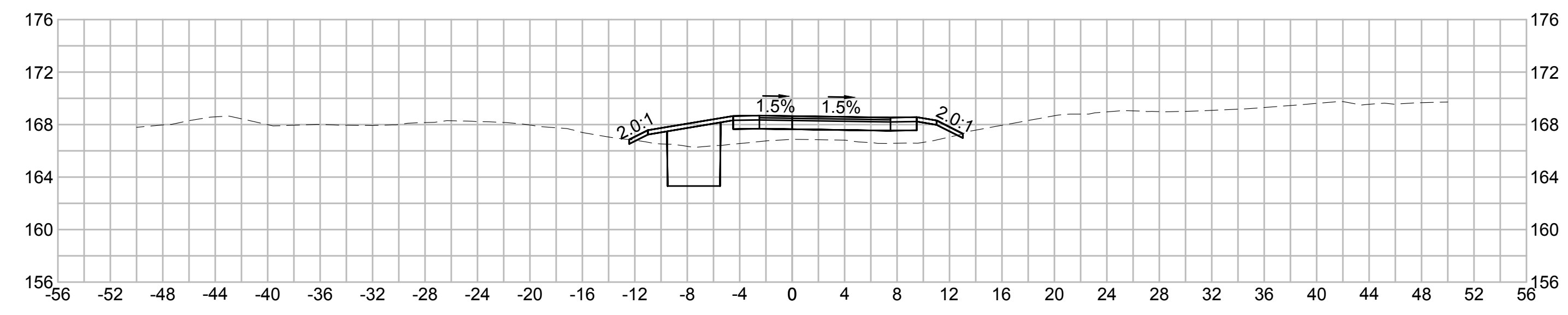
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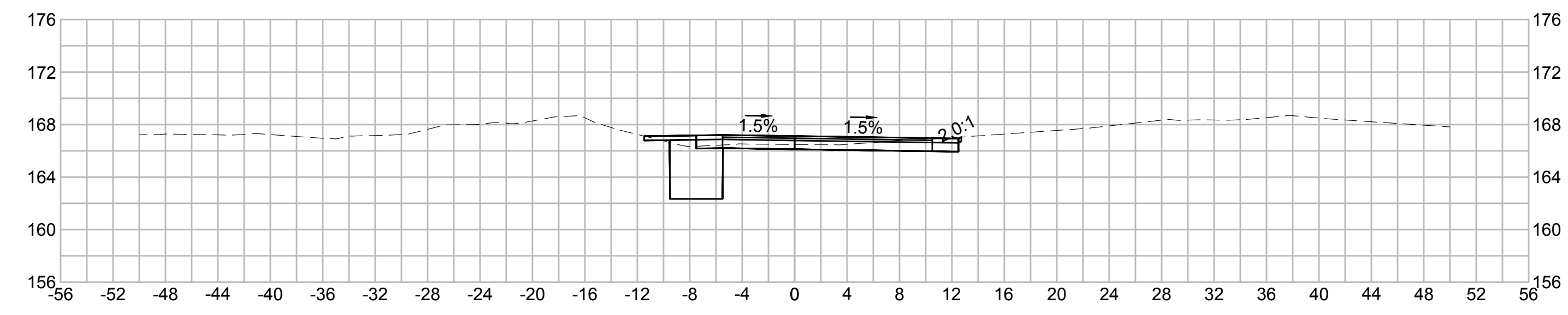
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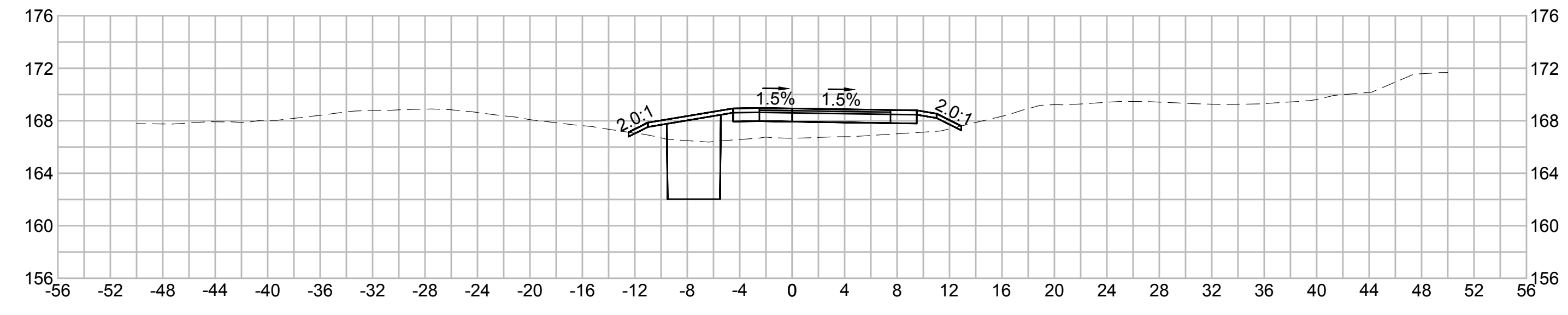
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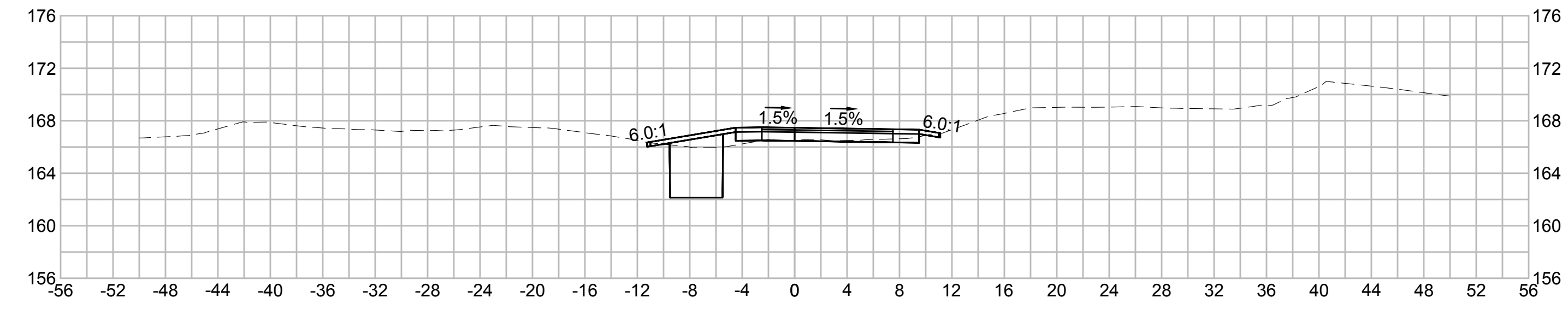
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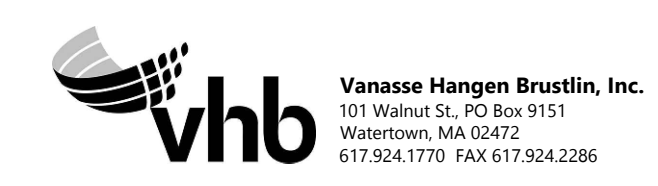
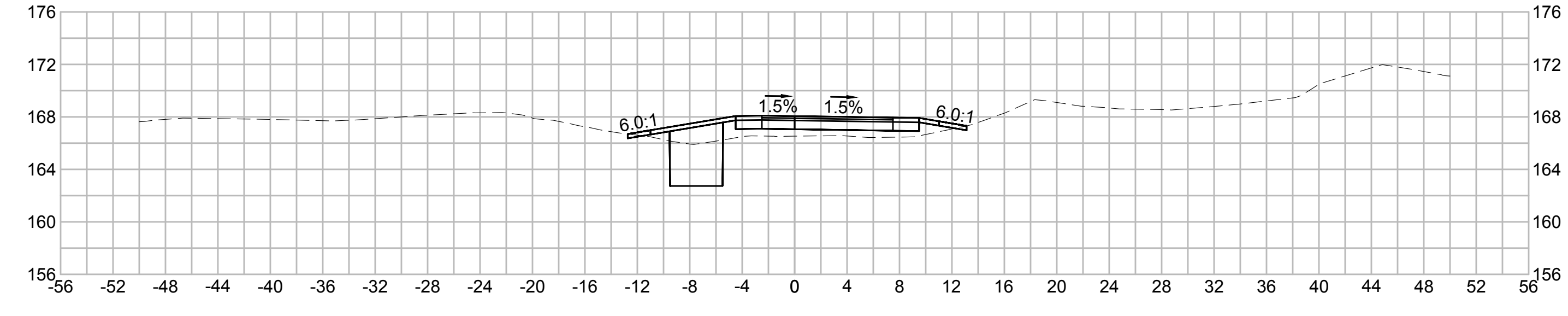
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
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|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 272 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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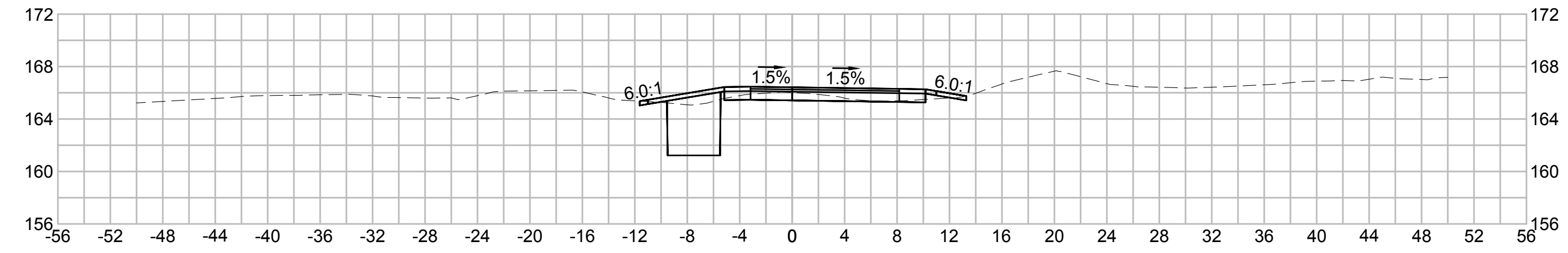
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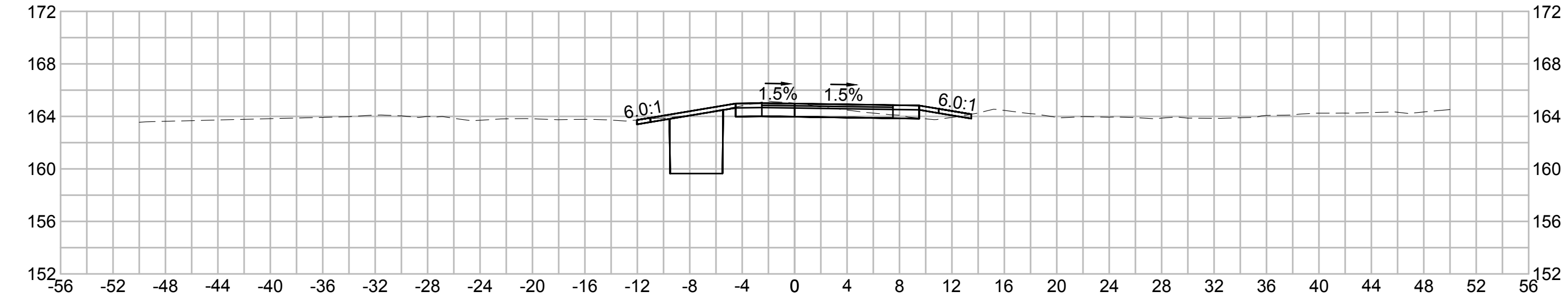
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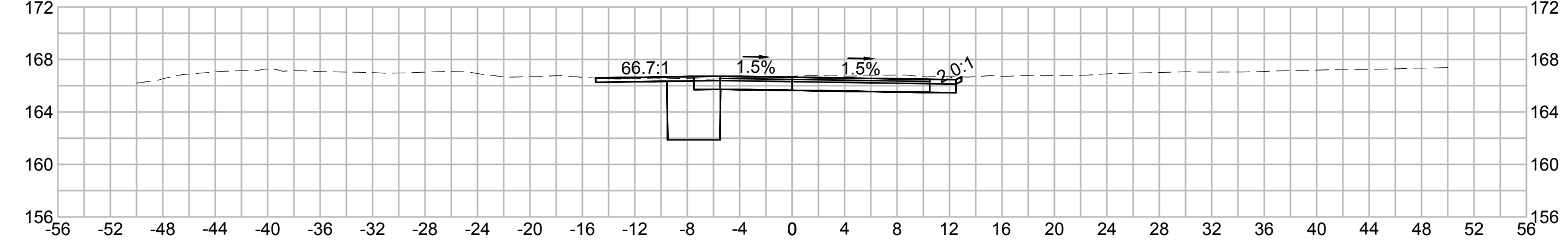
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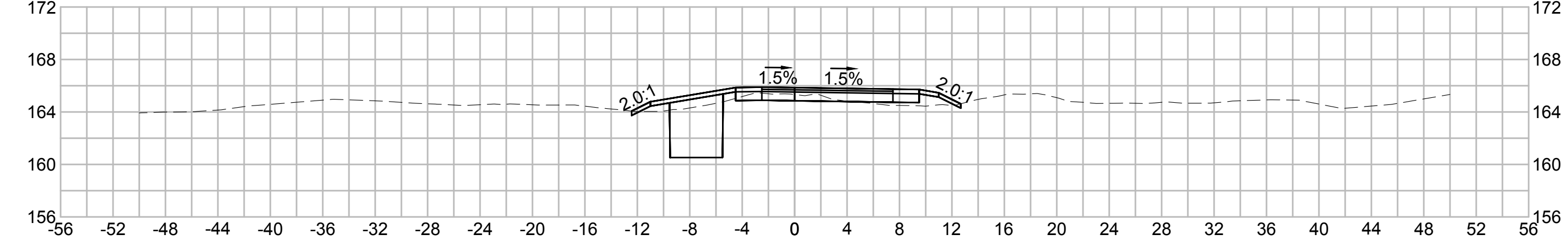
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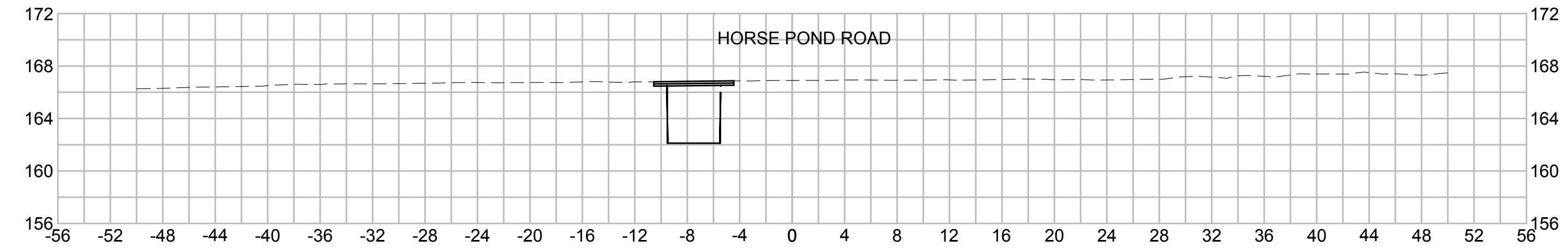
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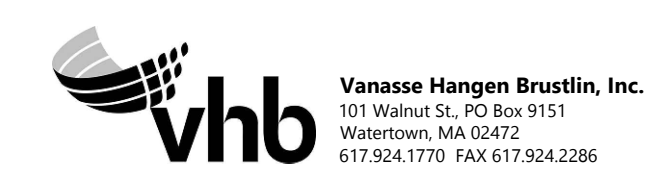
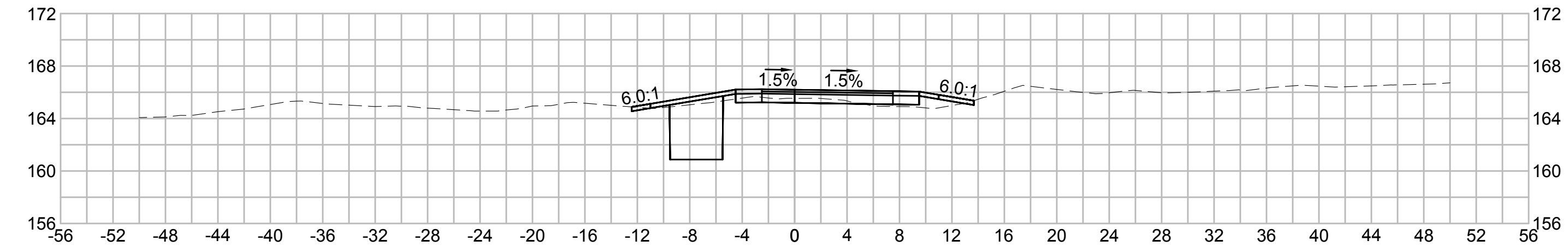
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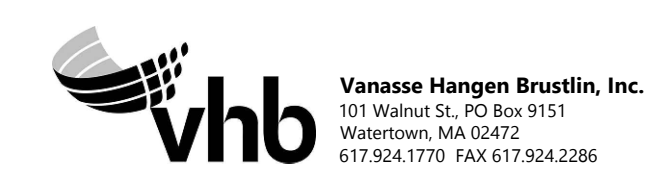
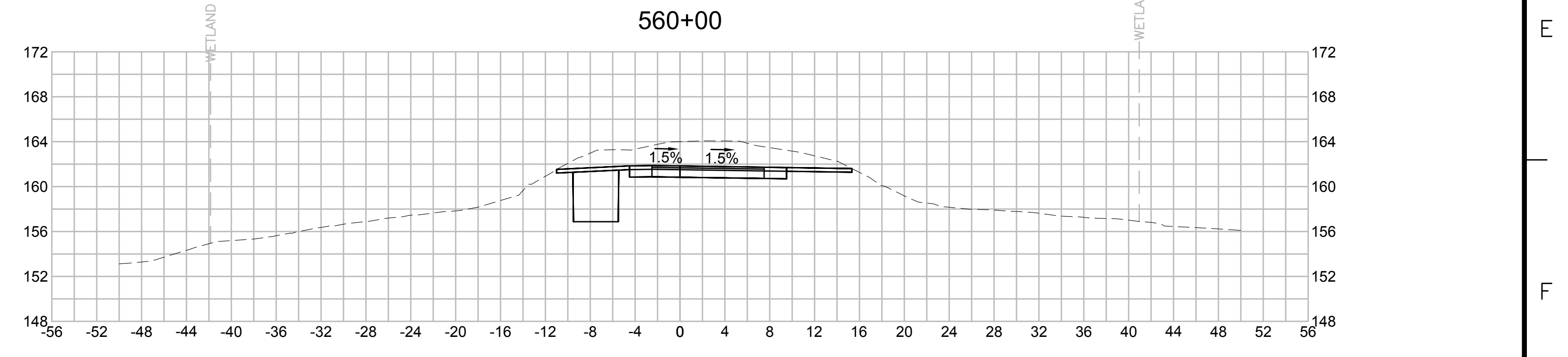
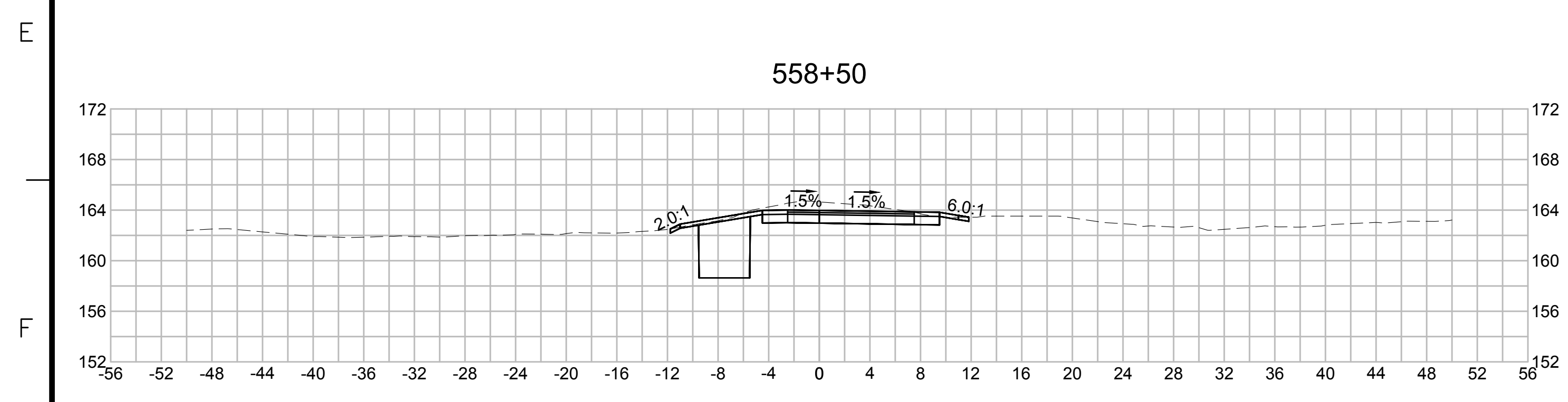
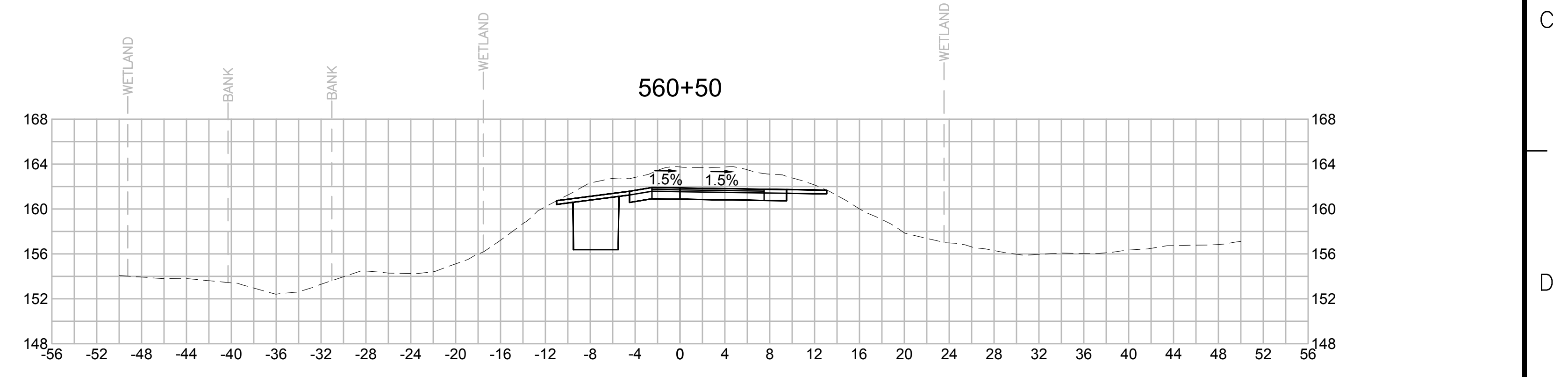
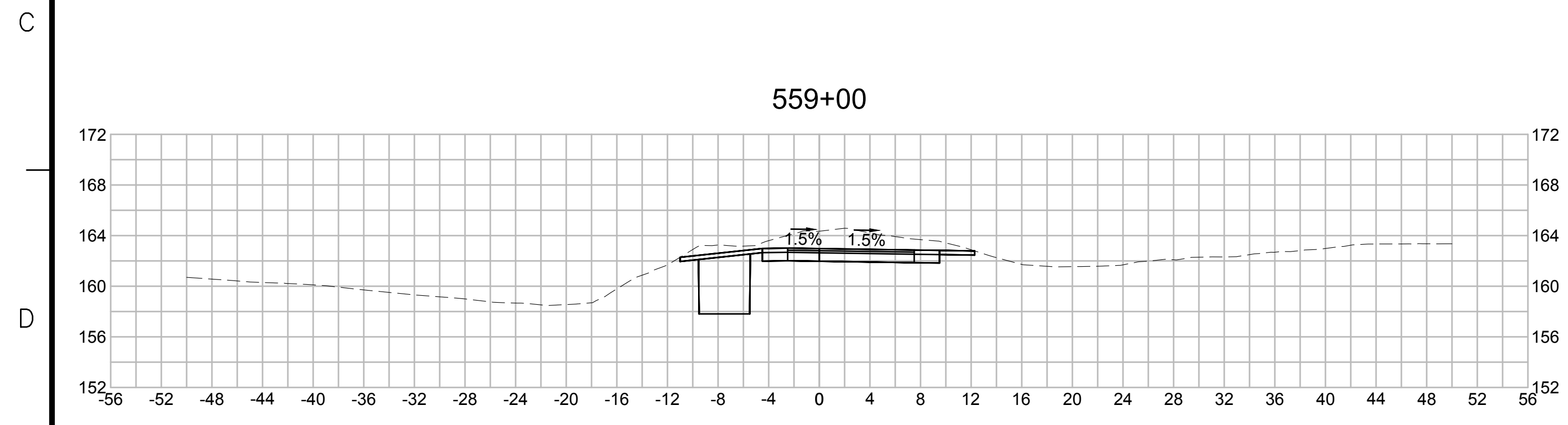
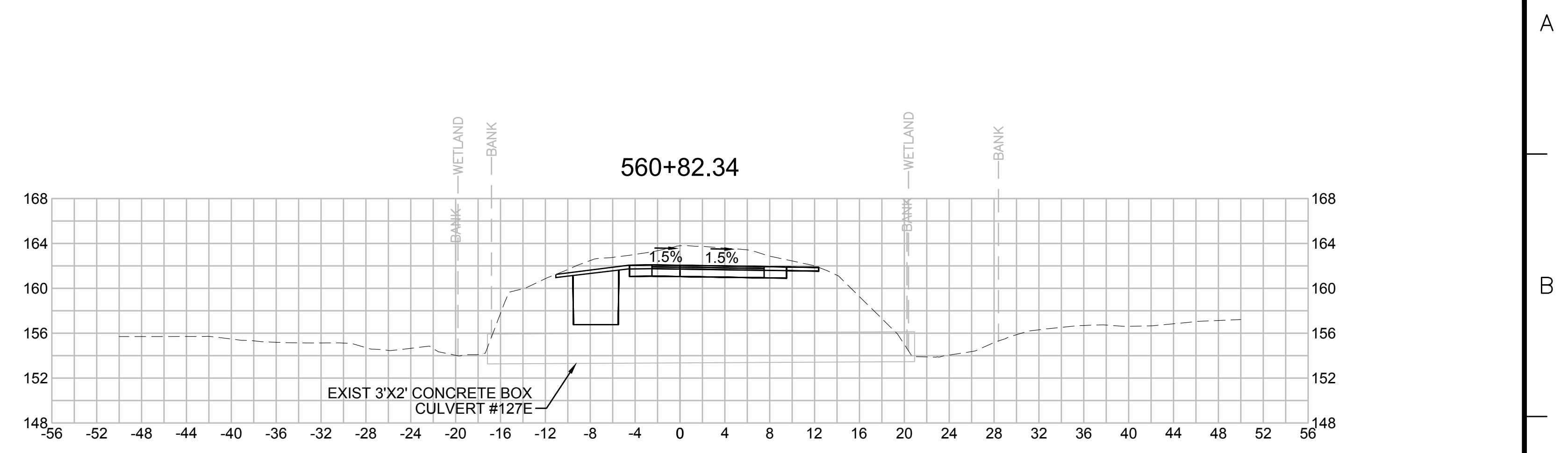
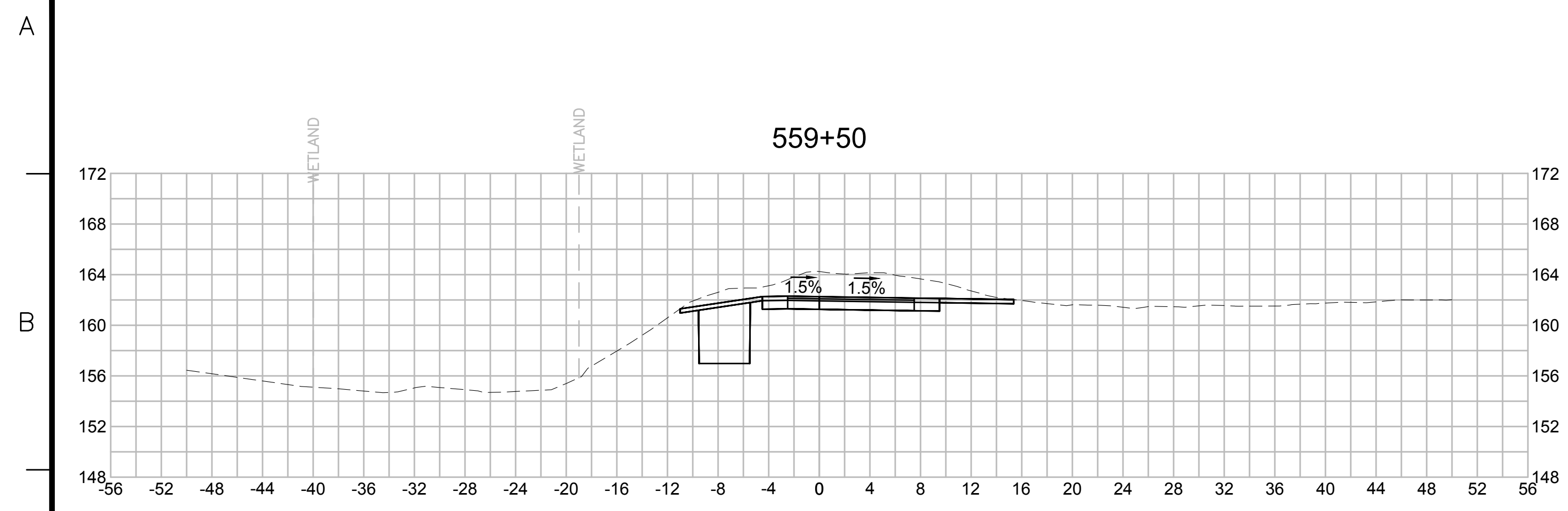
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| REVISION  |                   |             |               |                 |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |             |       |
| CROSS SECTIONS                                    |                   |             |               |                 |             |       |
| PLAN 273 OF 316                                   |                   |             |               |                 |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV.  |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUBBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUBBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 274 OF 316

|                              |                         |              |              |     |             |      |
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| SCALE: unless noted<br>1"=8' | DATE DRAWN<br>JULY 2020 | CHK'D.<br>MS | APP'R.<br>SK | MES | DRAWING NO. | REV. |
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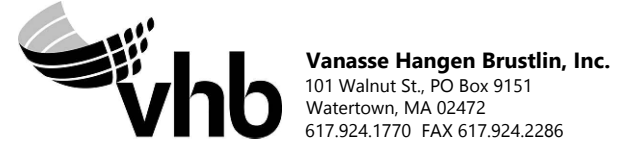
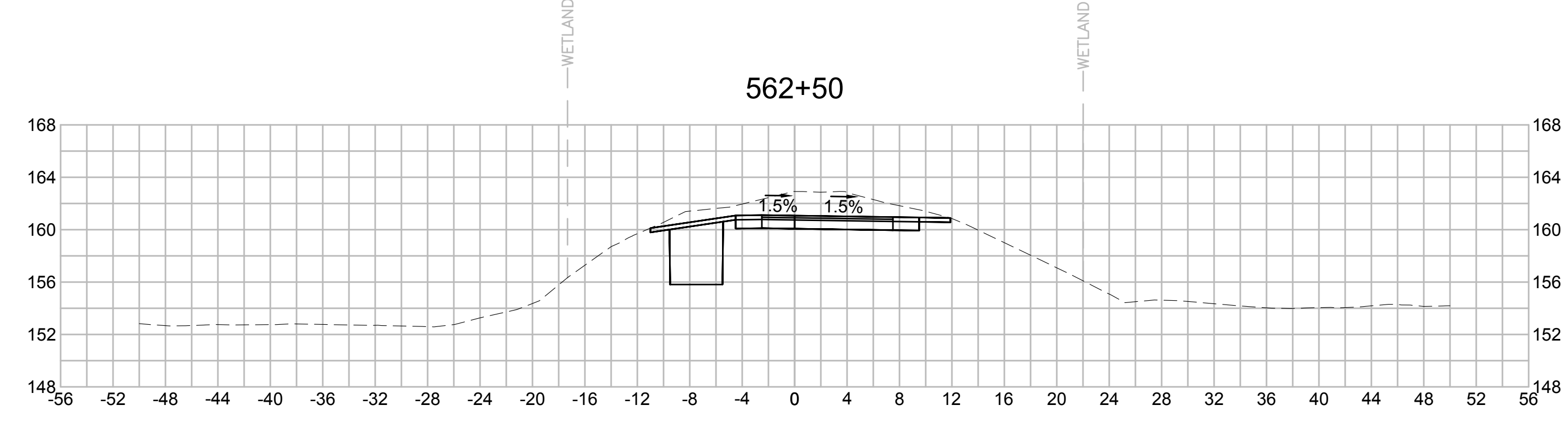
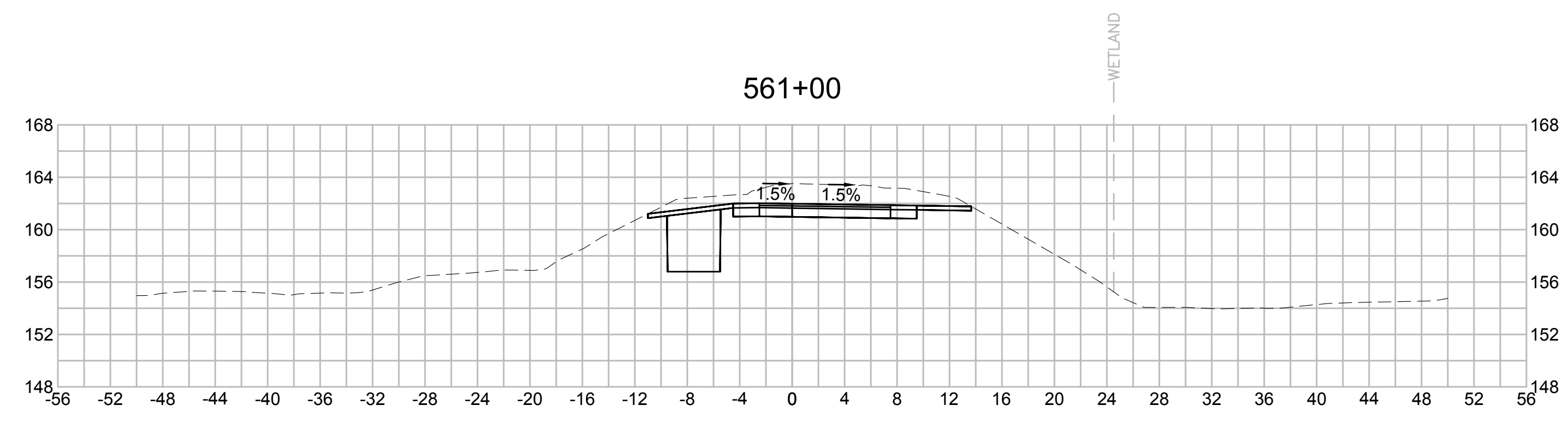
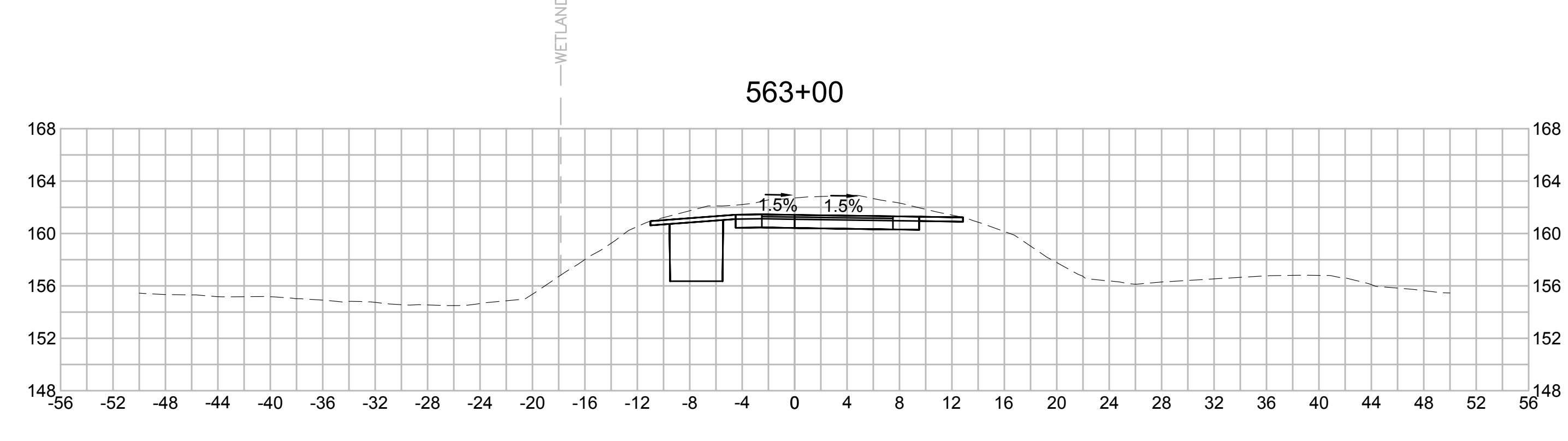
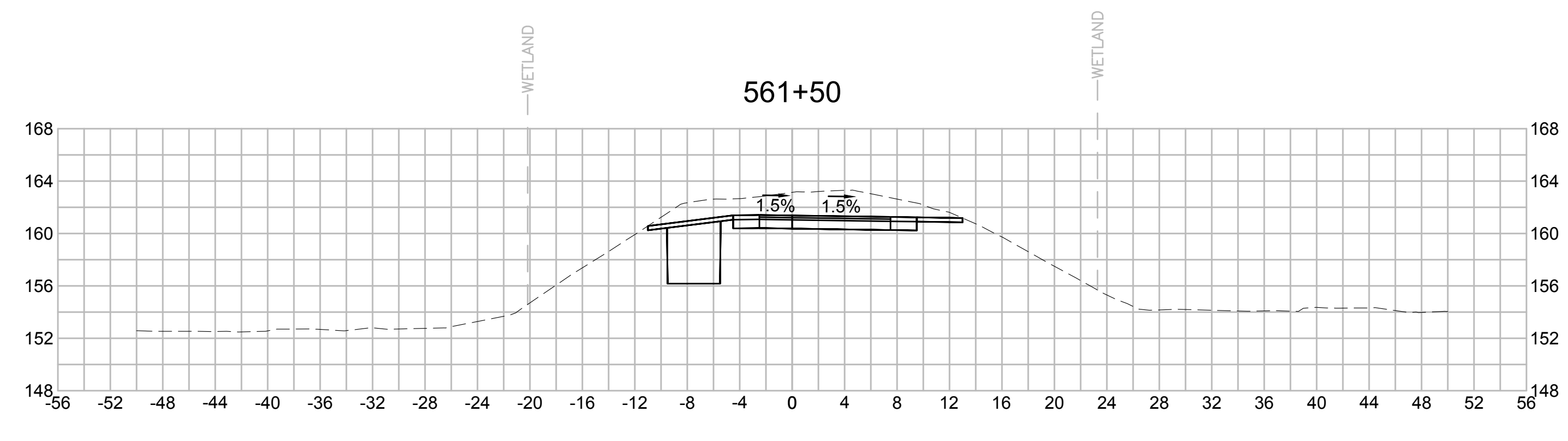
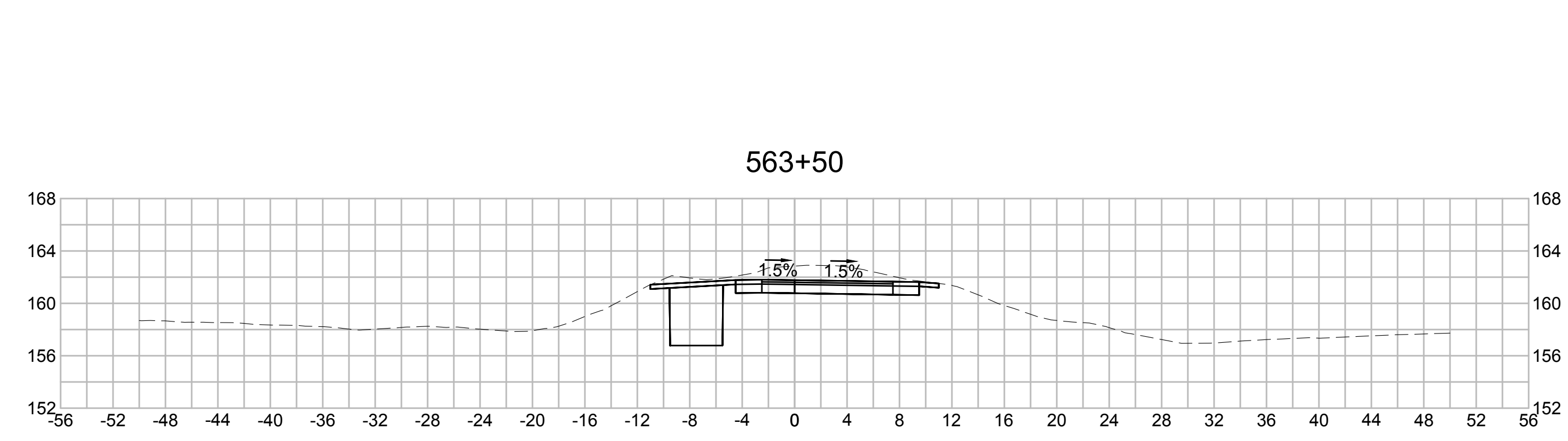
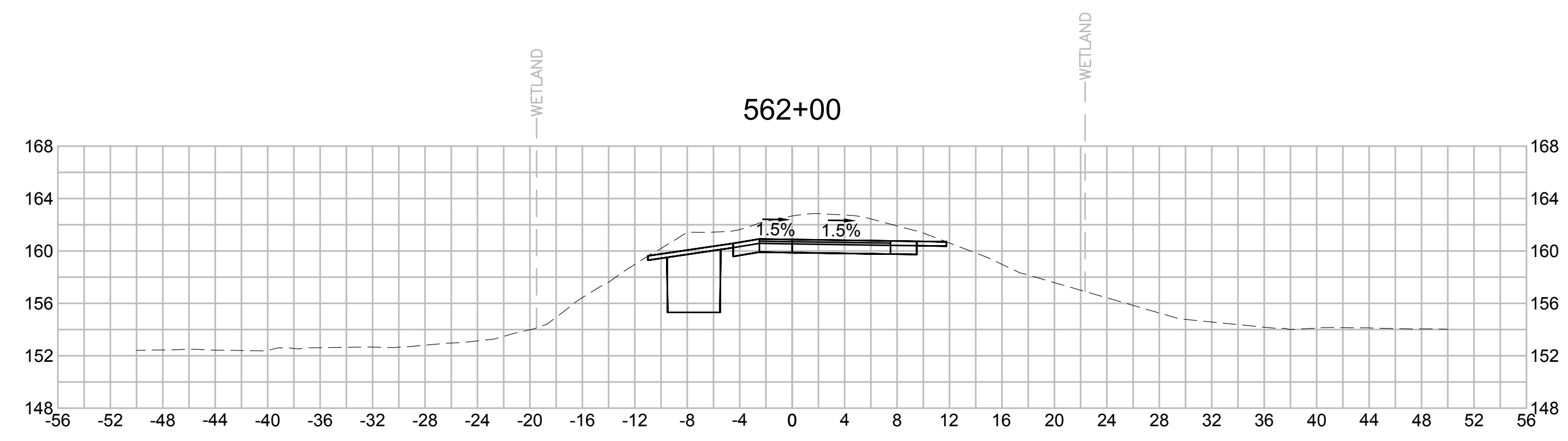
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Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617.924.1770 FAX 617.924.2286

| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
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|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 275 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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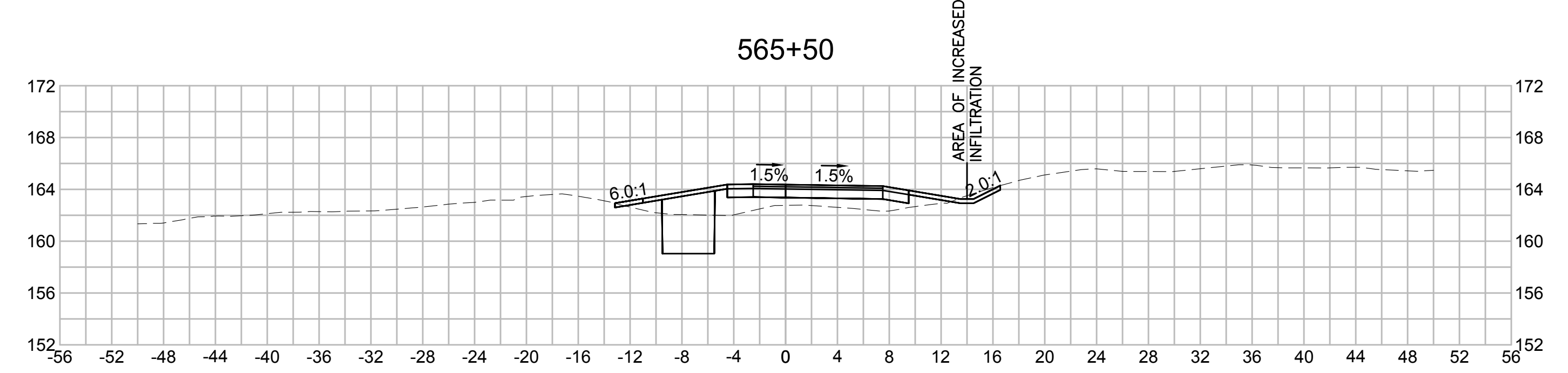
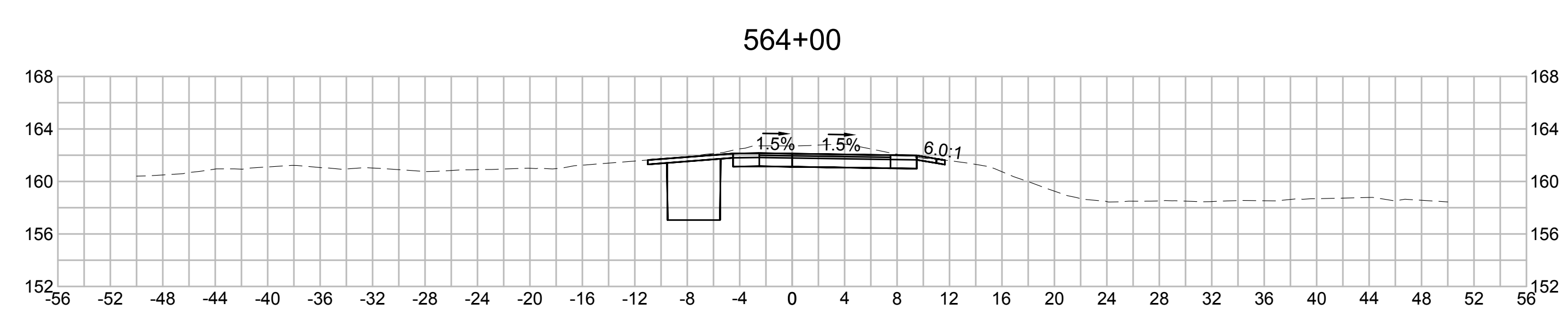
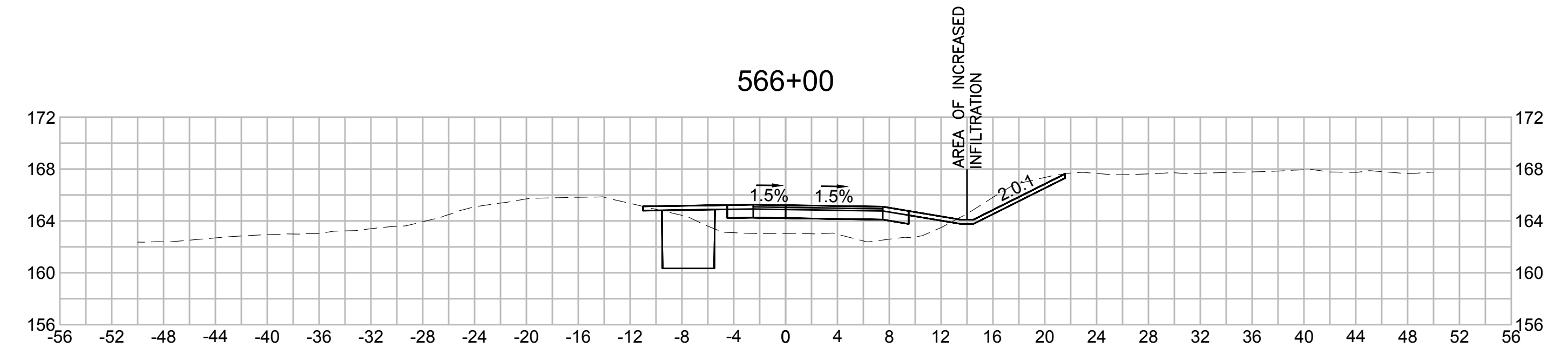
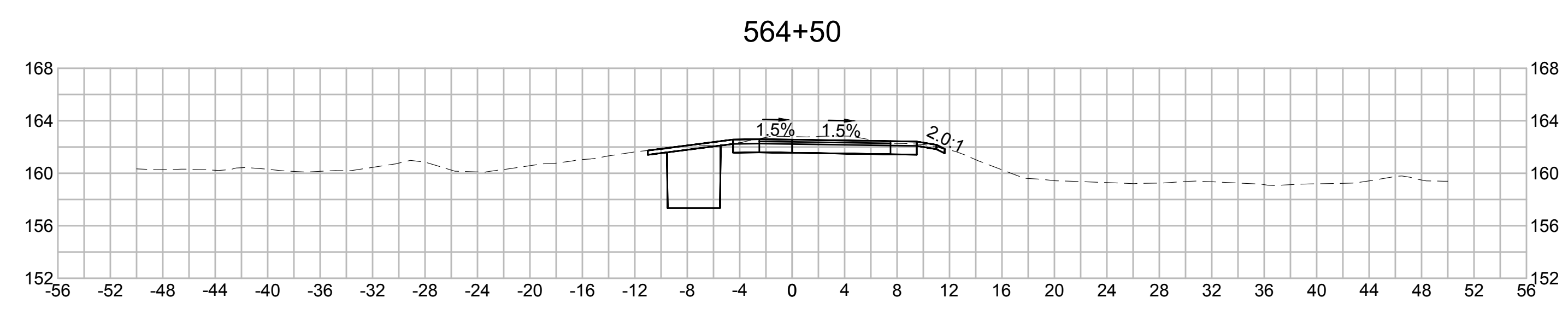
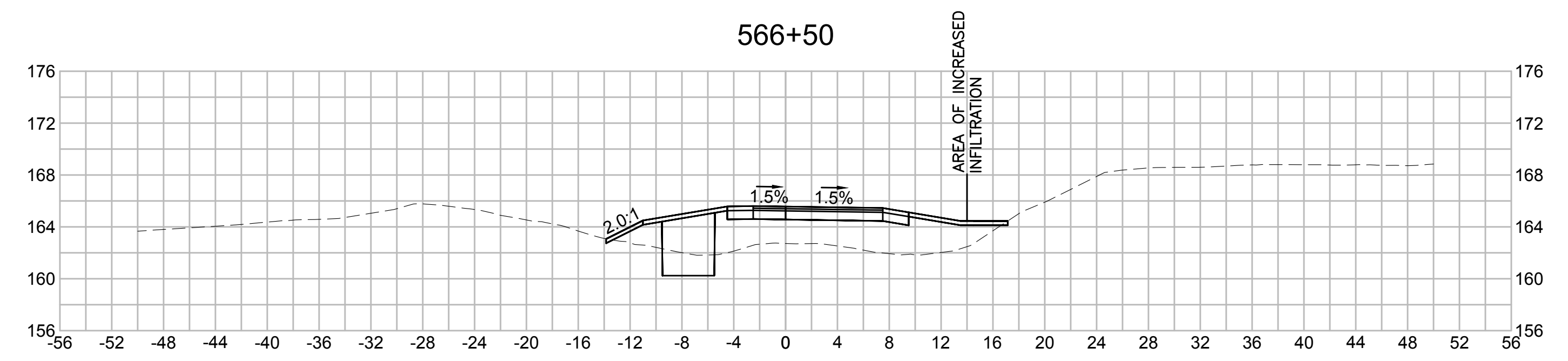
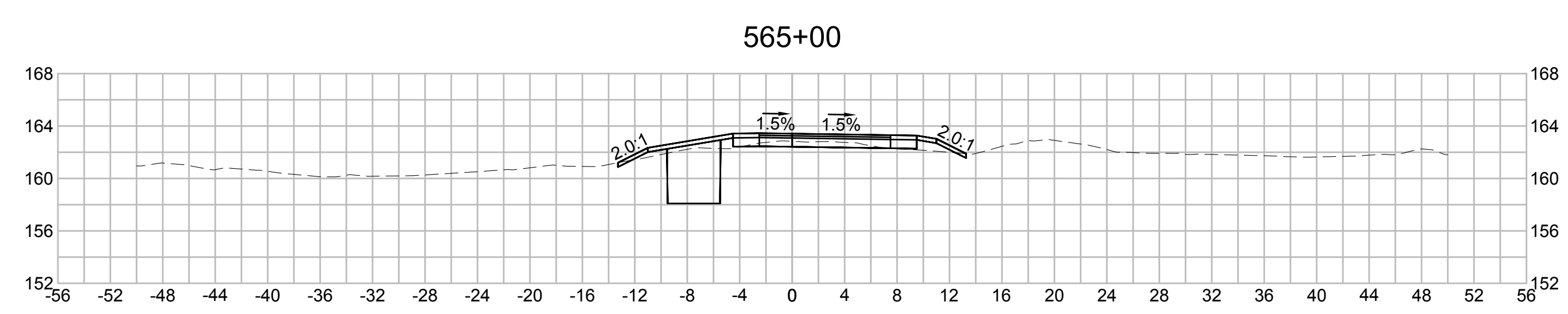
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 276 OF 316

|                              |                   |             |                |              |                     |
|------------------------------|-------------------|-------------|----------------|--------------|---------------------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C H'K D.<br>SK | APPR.<br>MES | DRAWING NO.<br>REV. |
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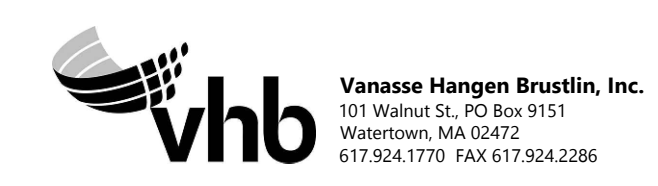
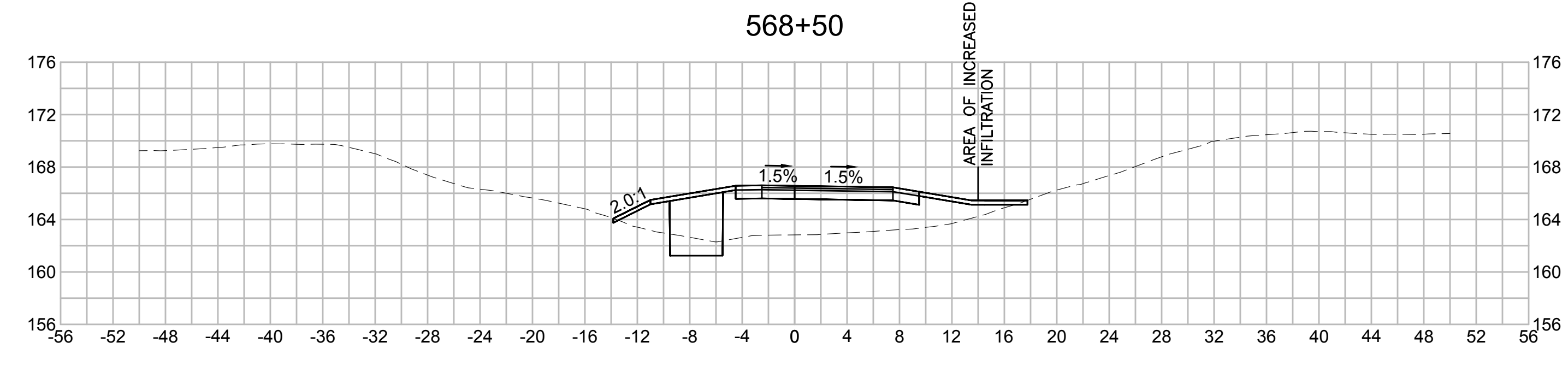
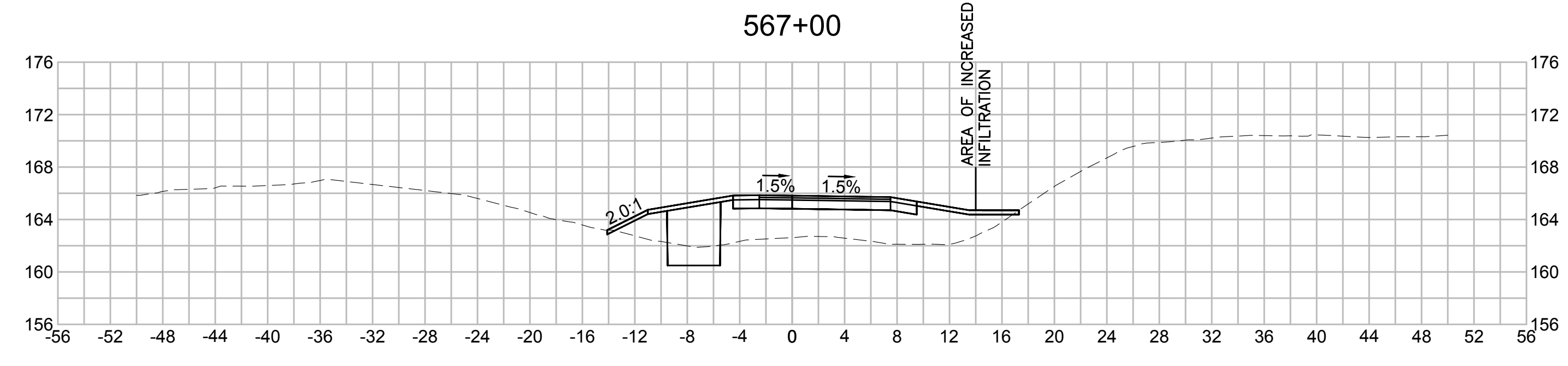
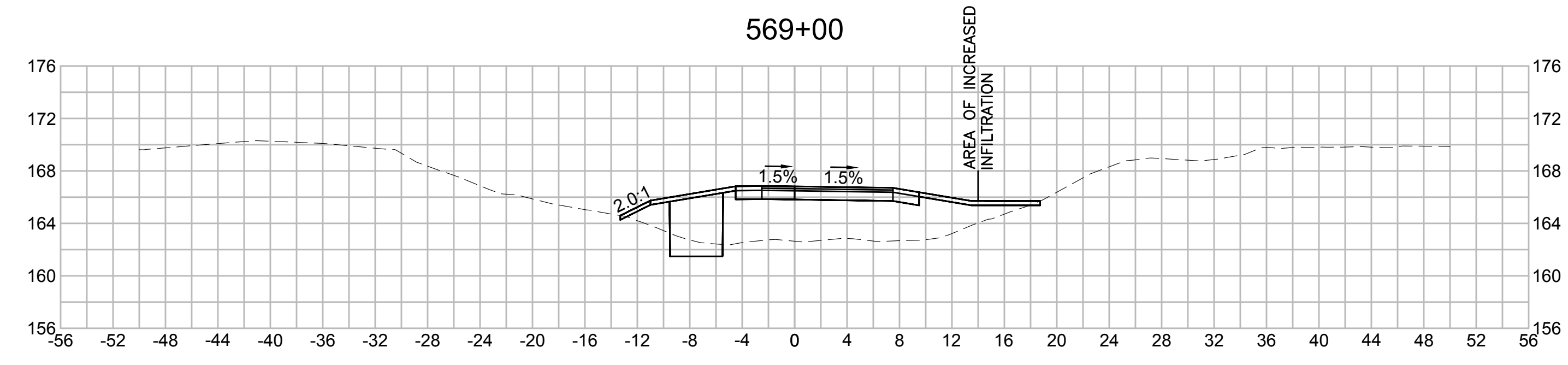
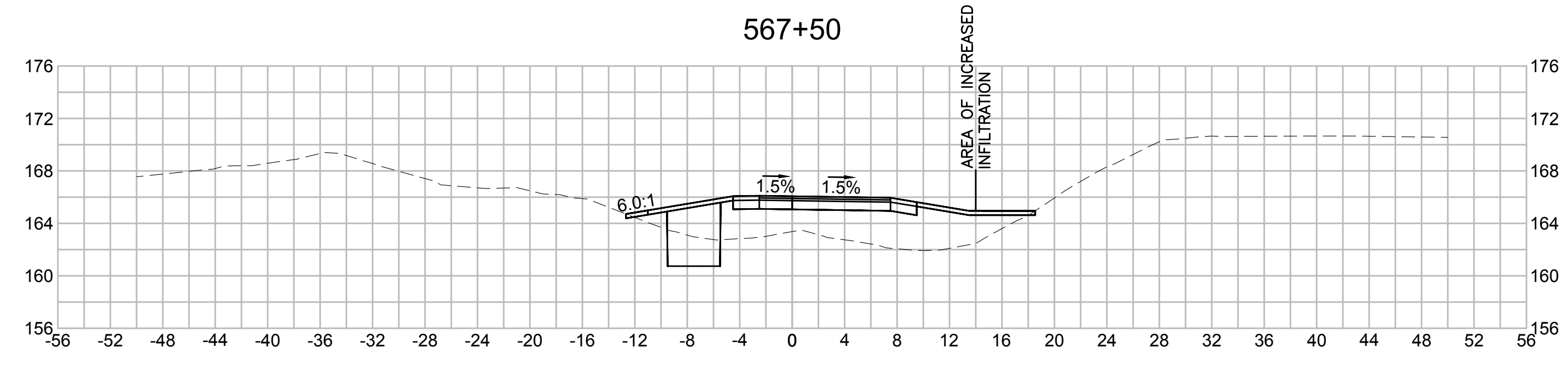
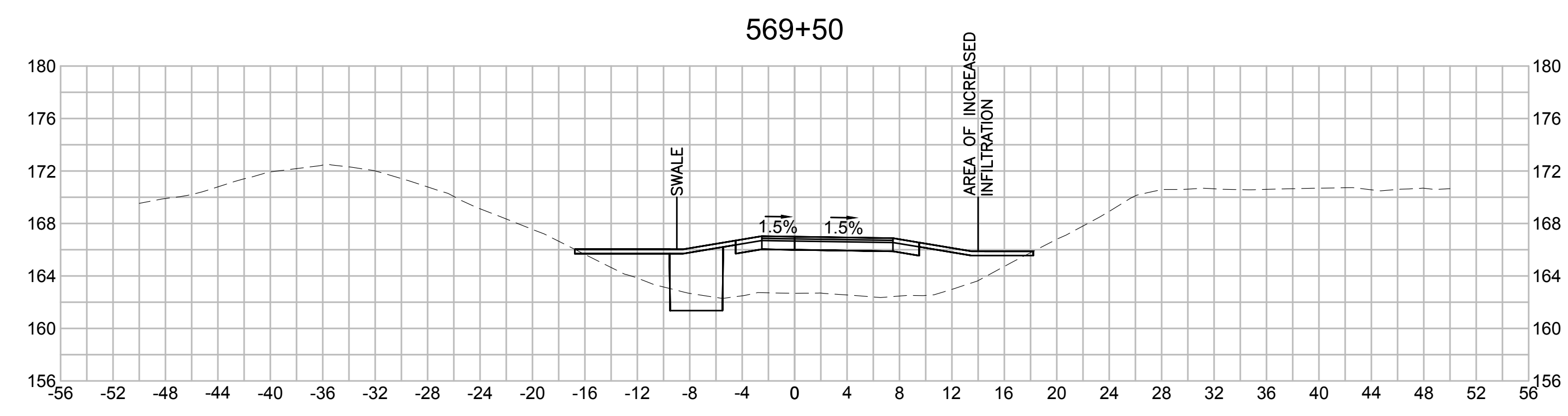
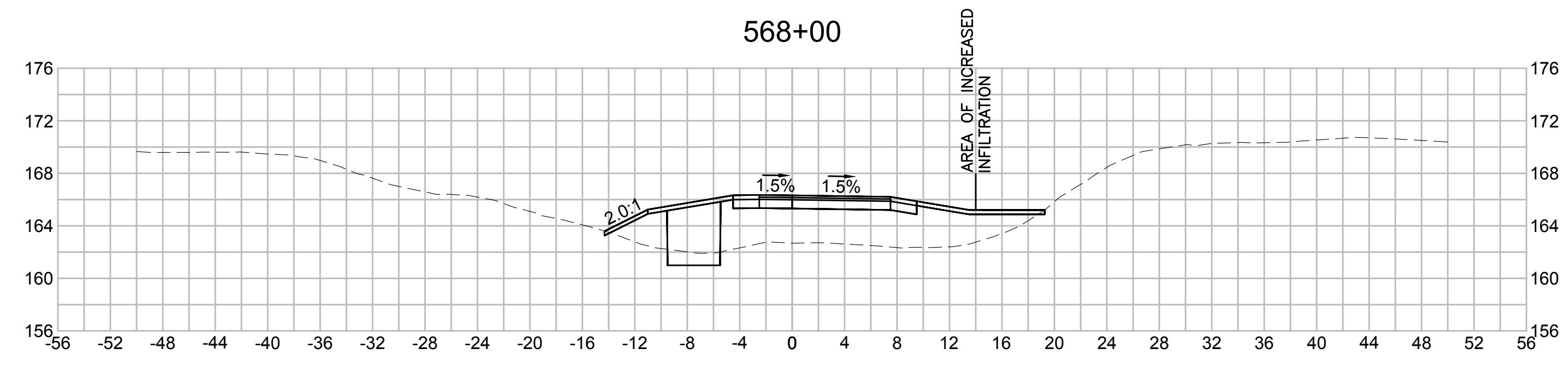
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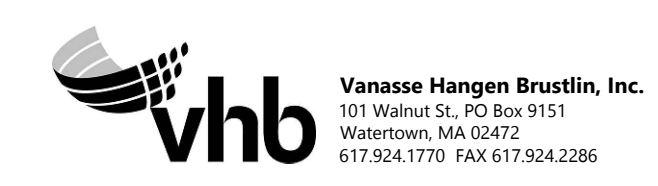
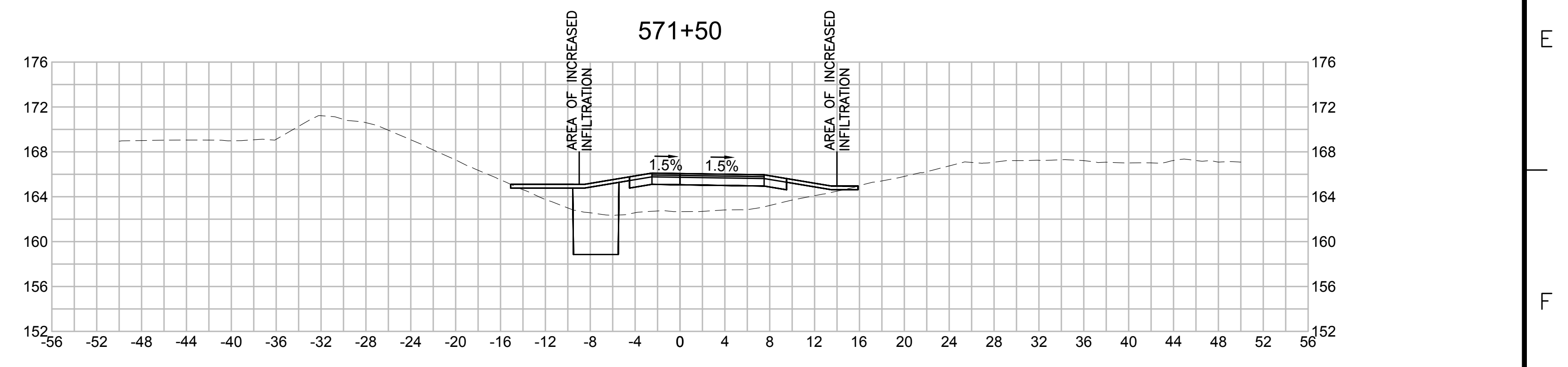
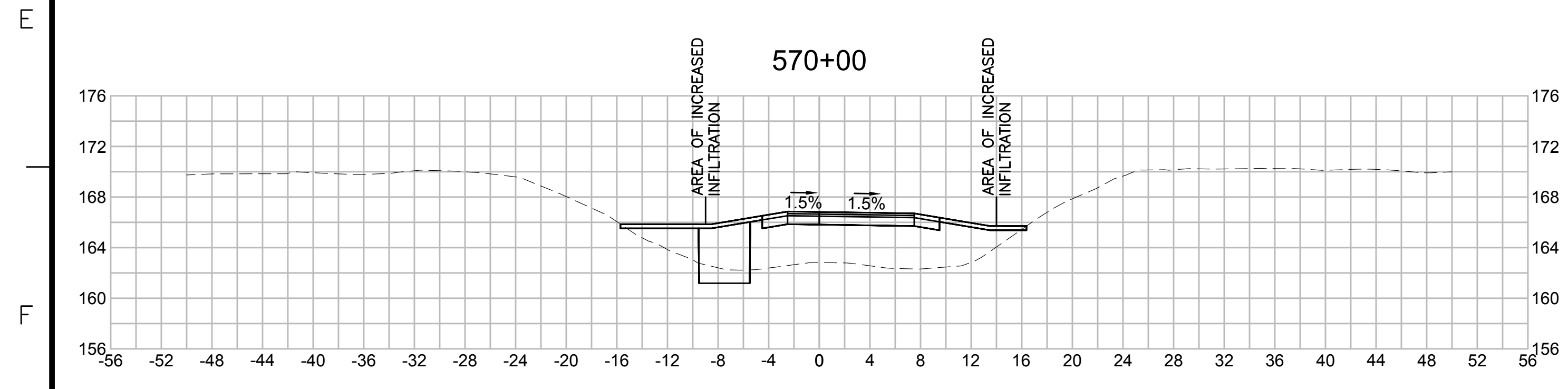
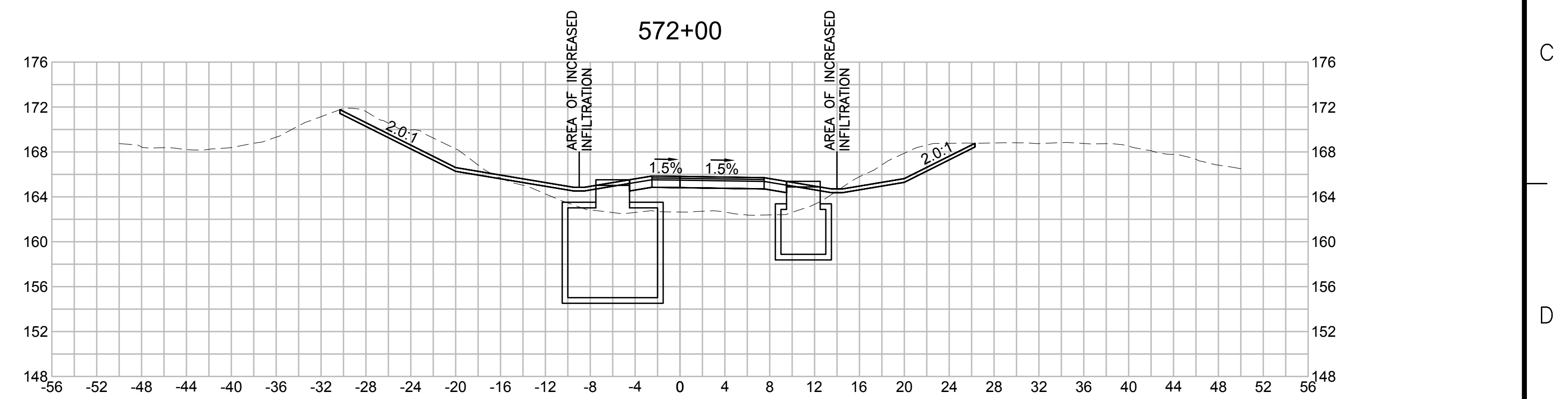
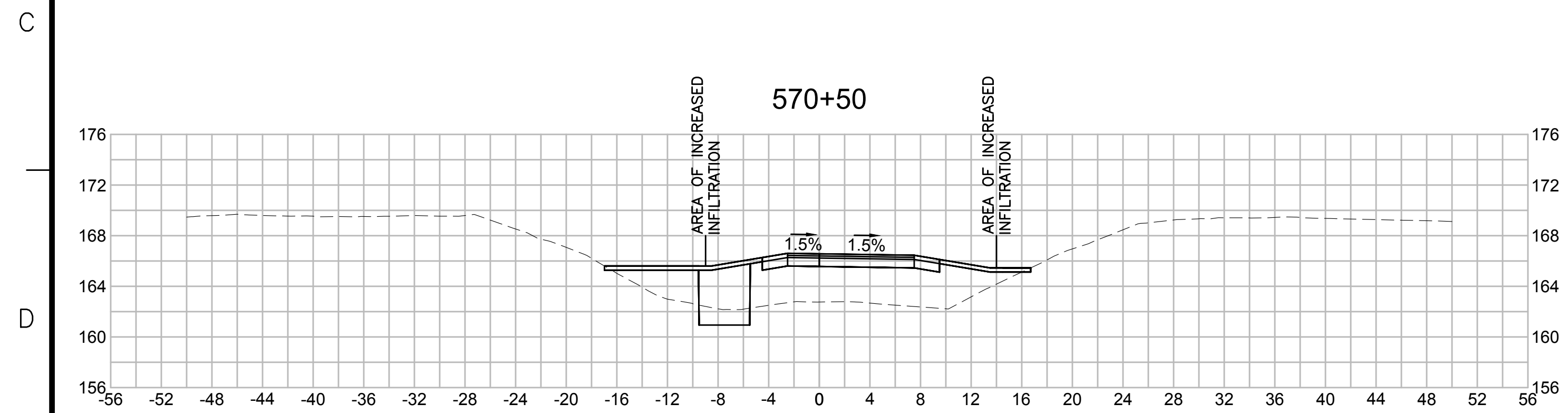
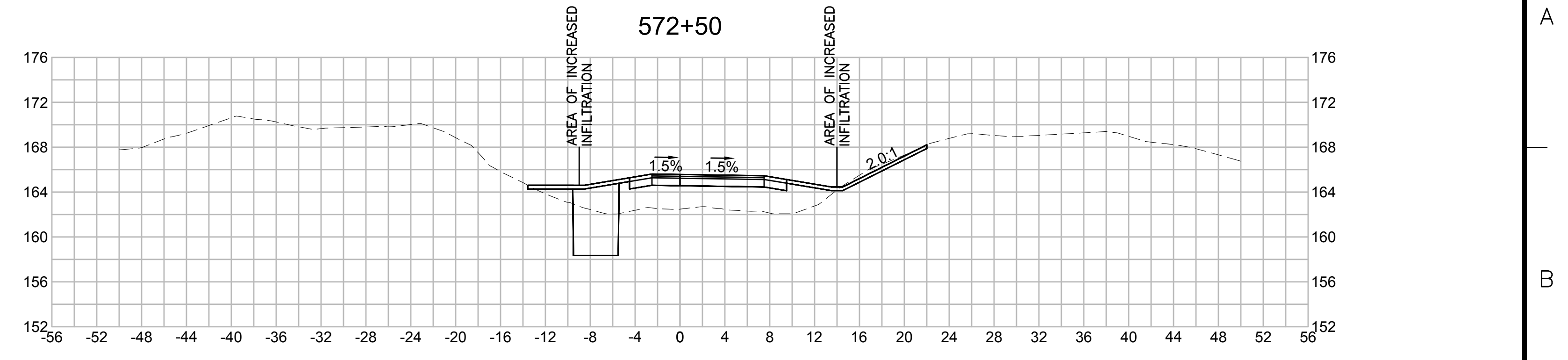
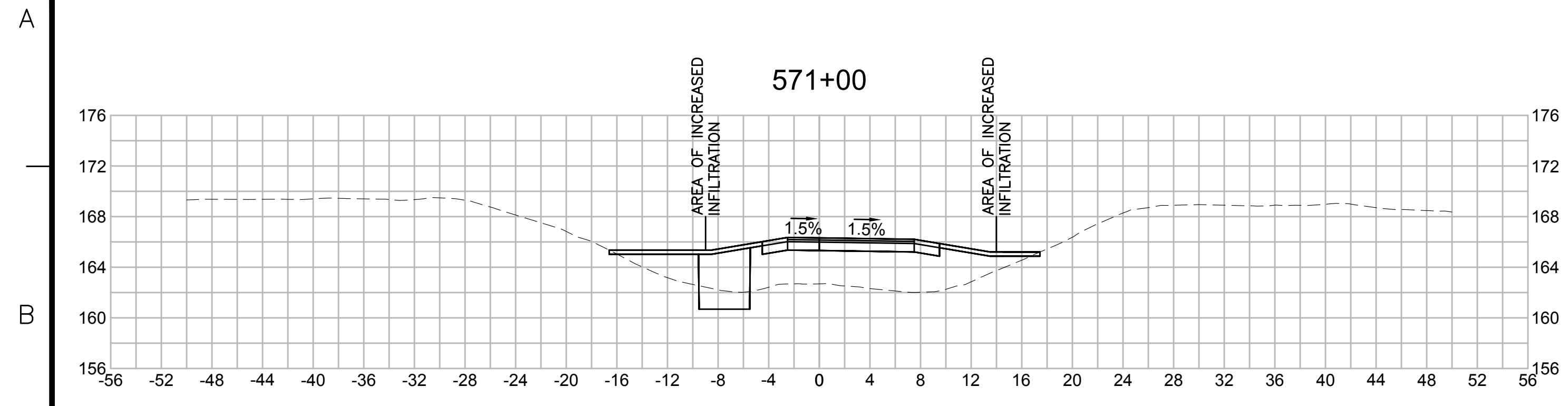
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 277 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
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|   | REVISION          |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 278 OF 316                                   |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |

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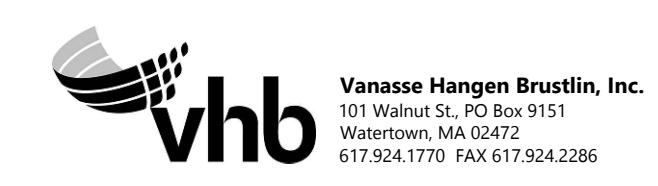
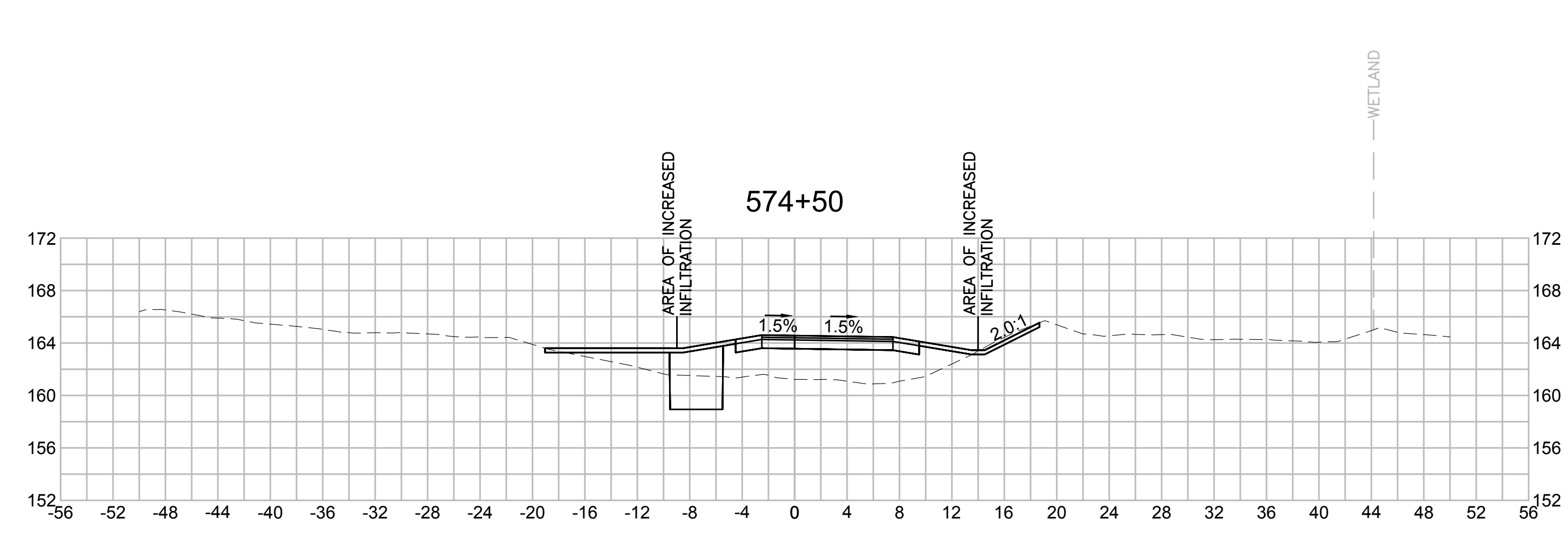
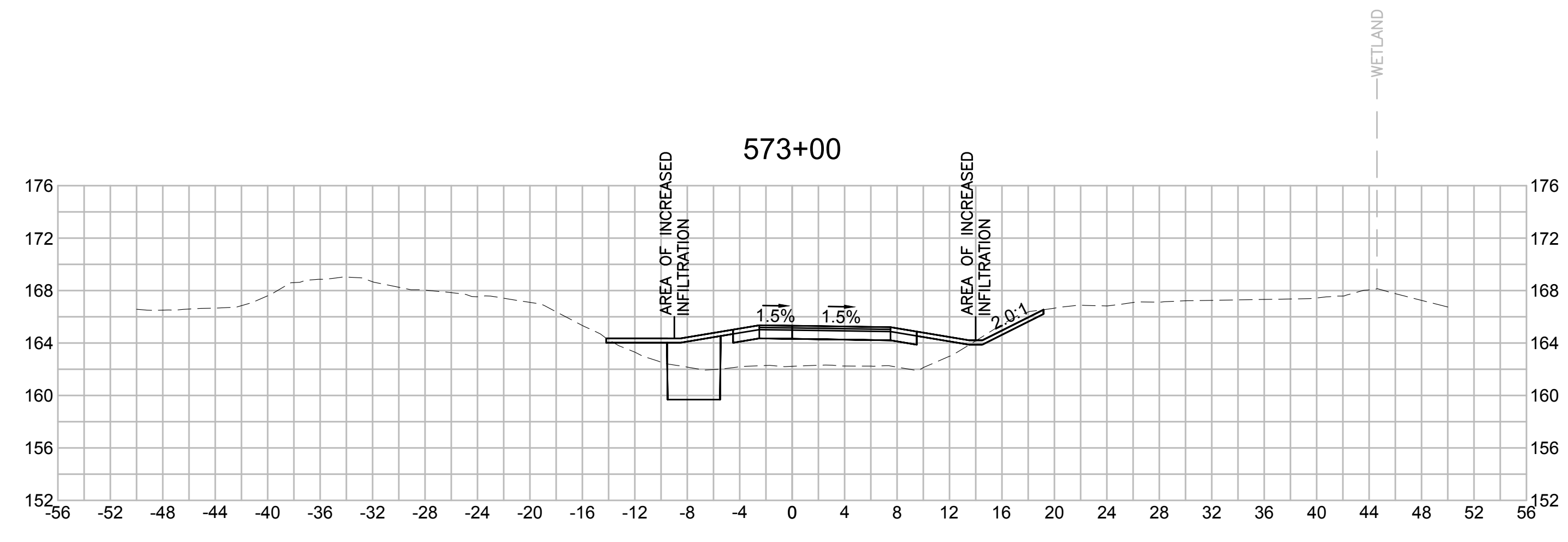
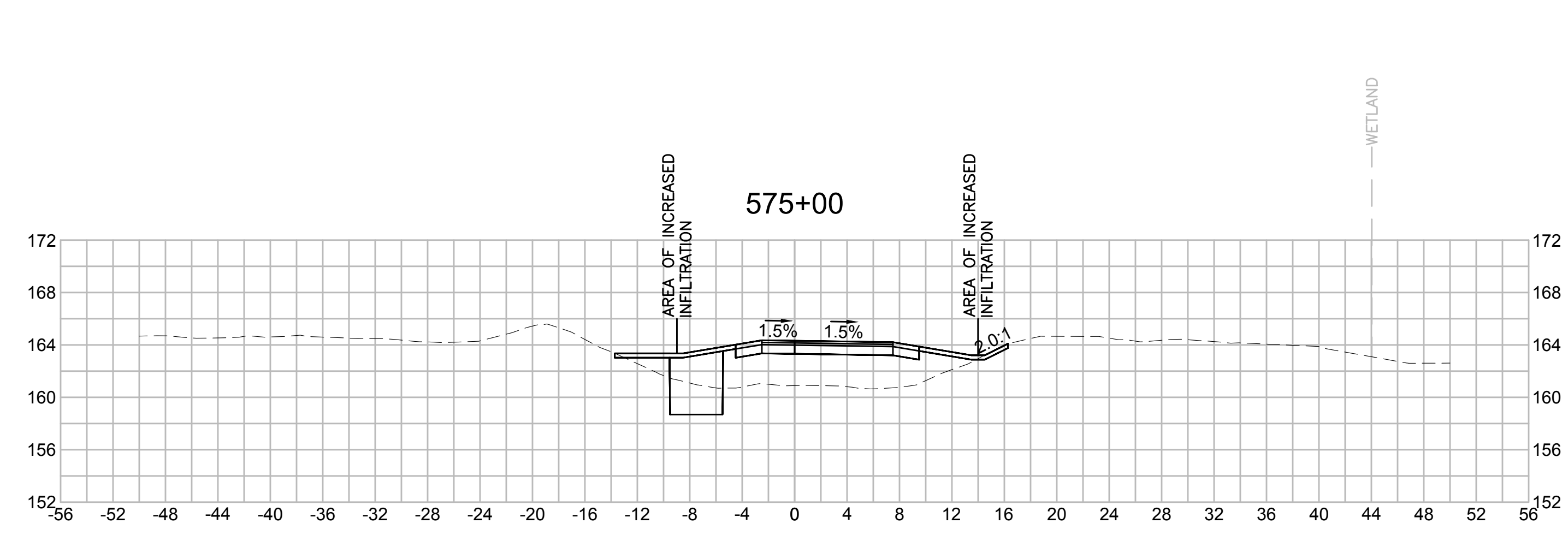
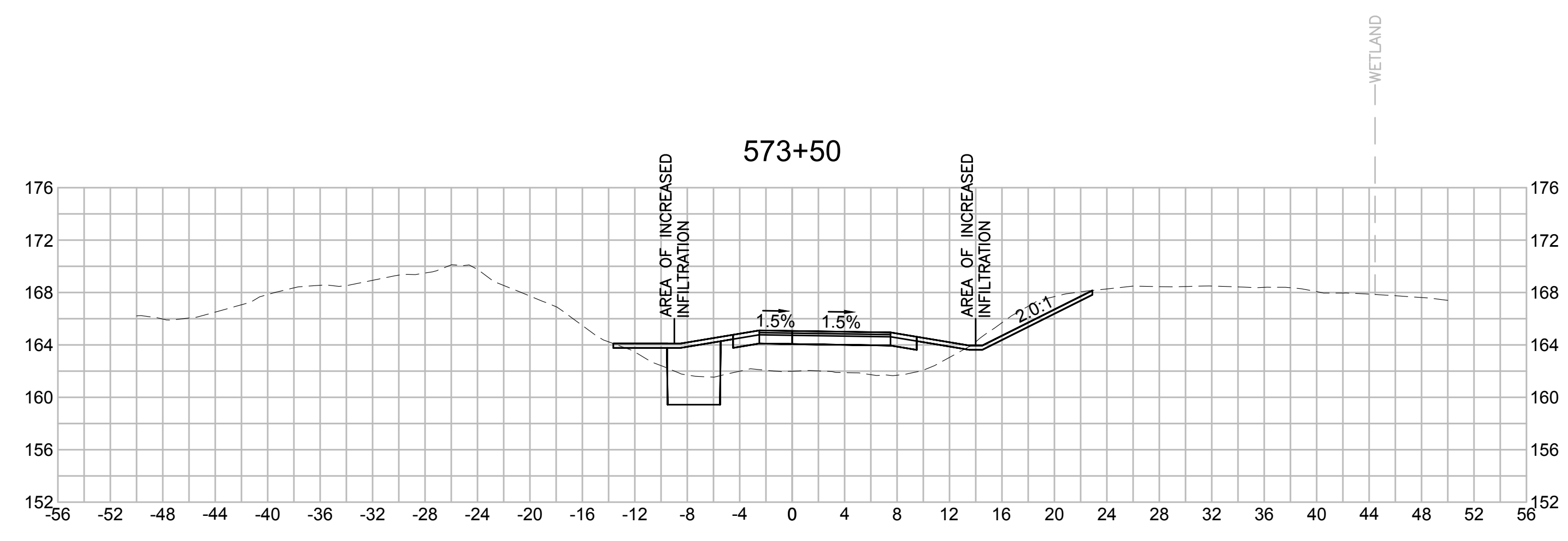
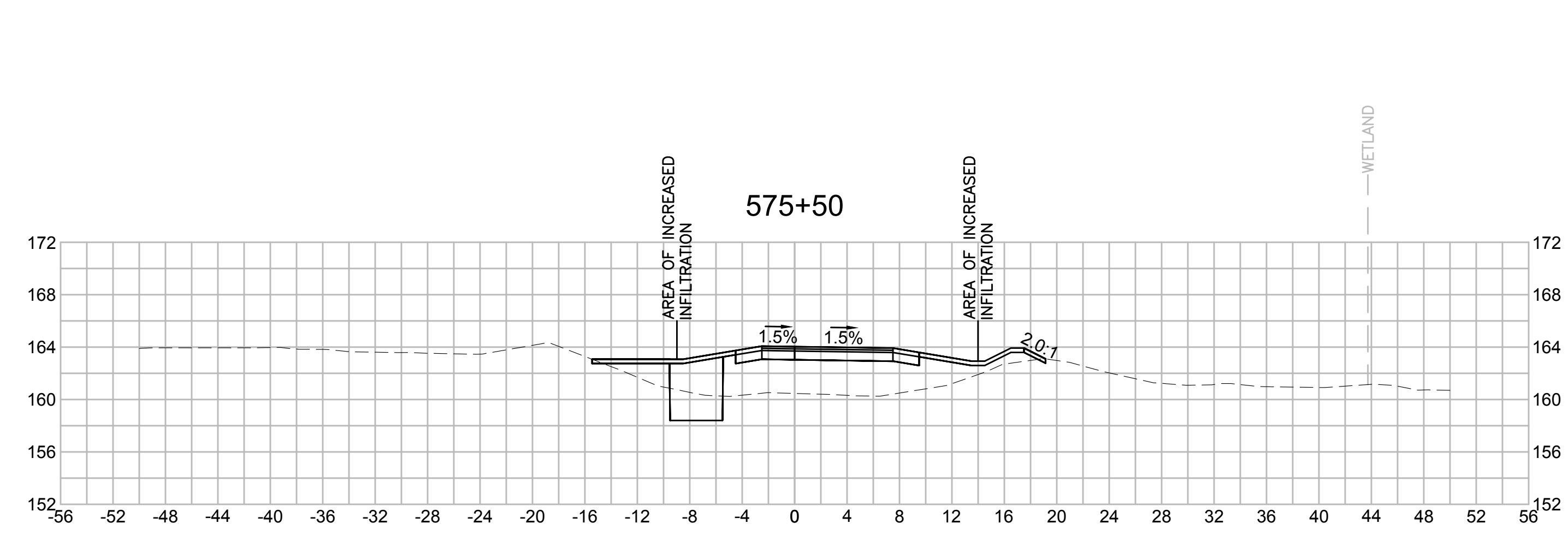
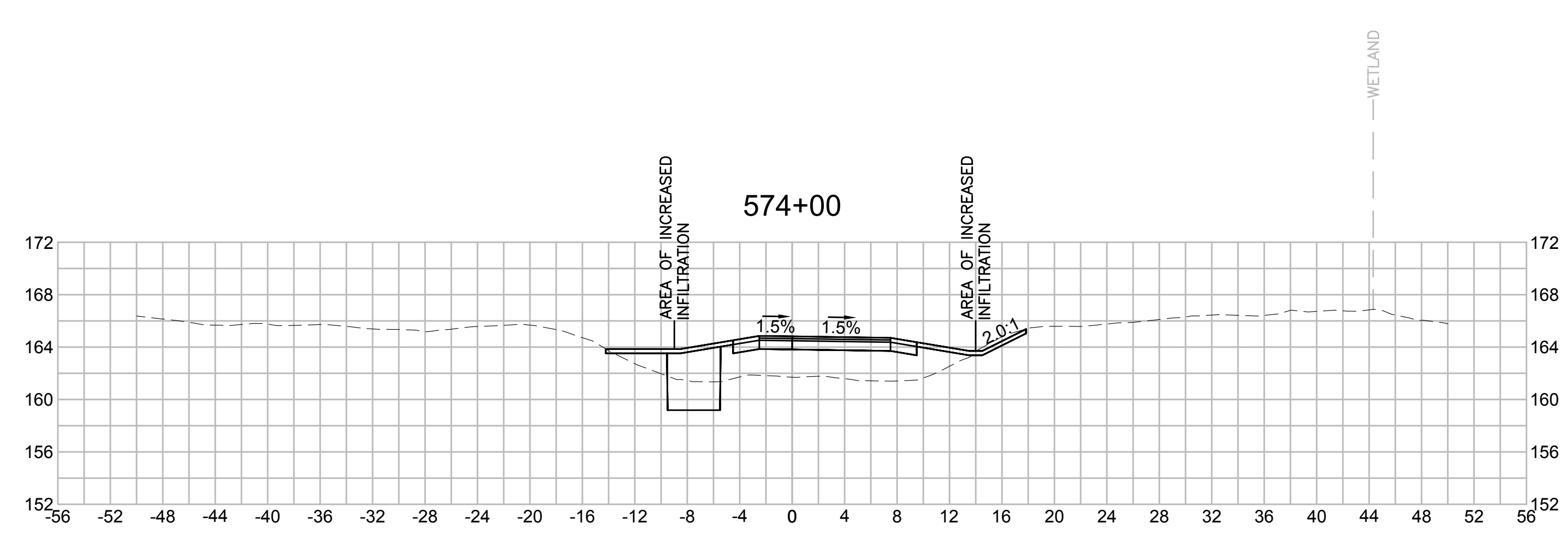
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 279 OF 316

|                              |                   |             |                |                 |             |      |
|------------------------------|-------------------|-------------|----------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K'D.<br>SK | A.P.P.R.<br>MES | DRAWING NO. | REV. |
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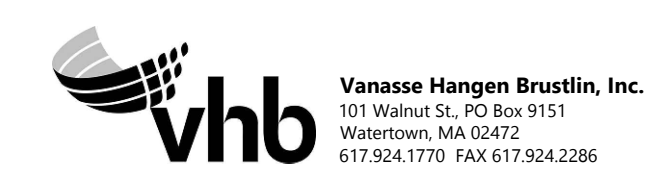
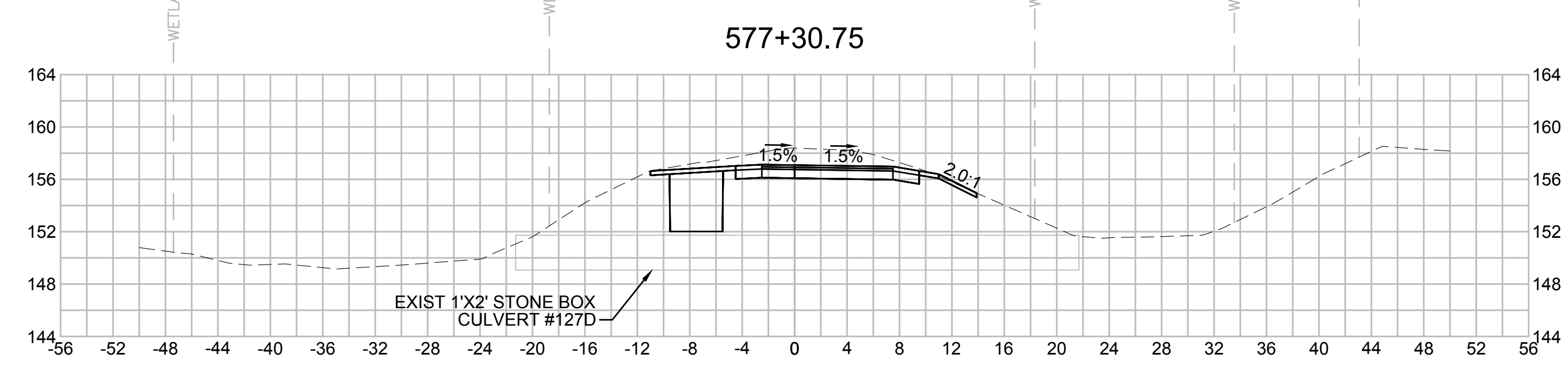
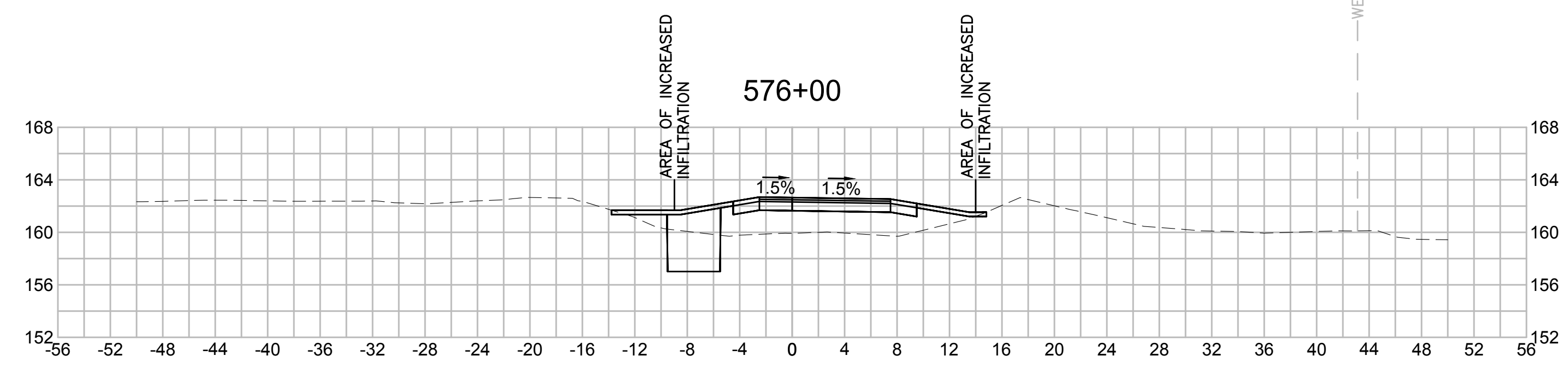
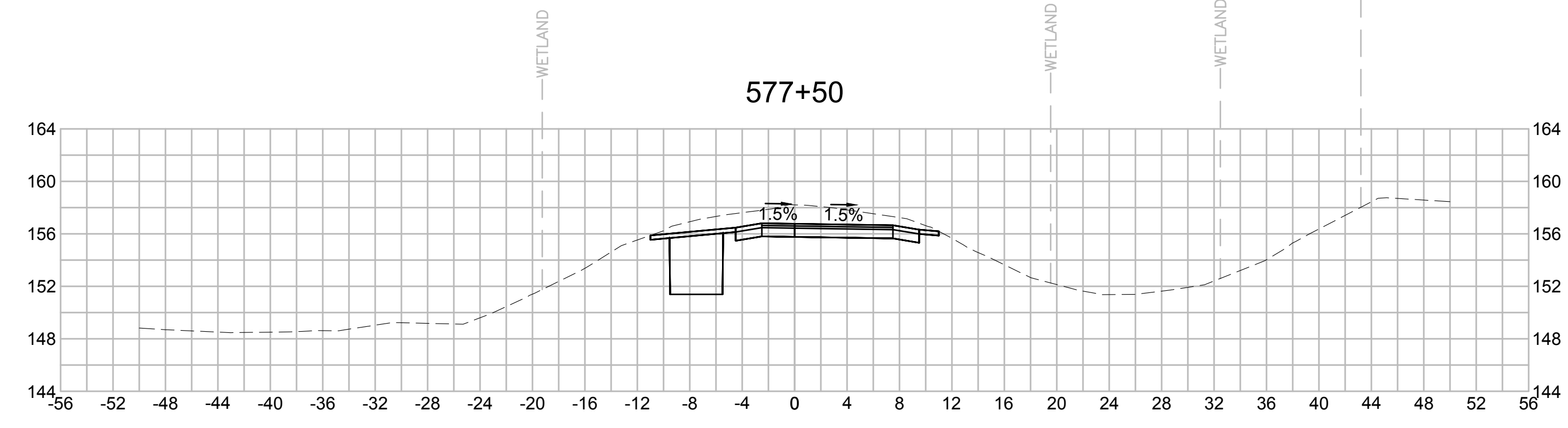
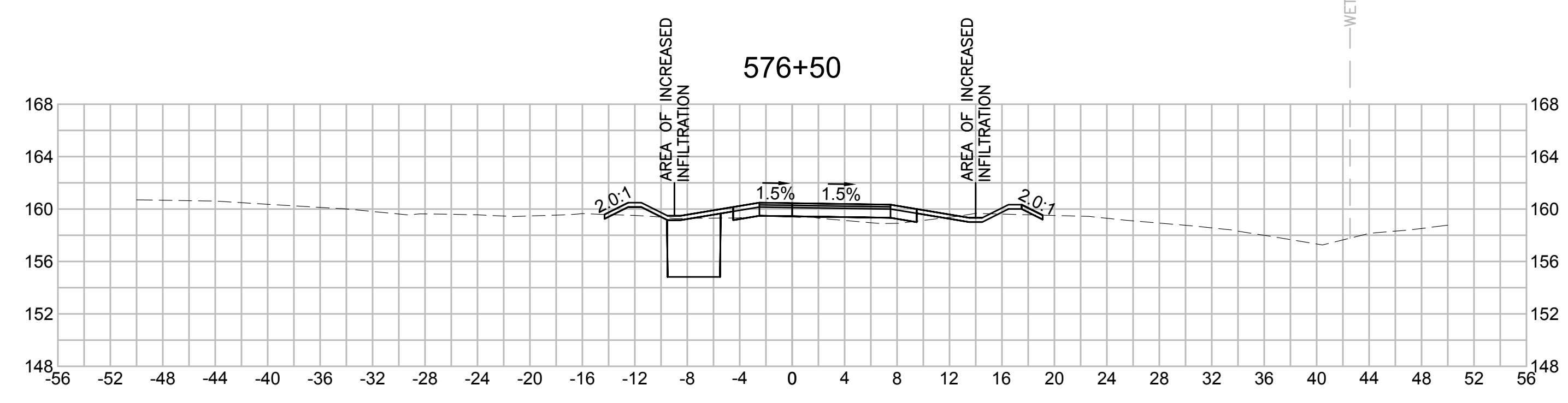
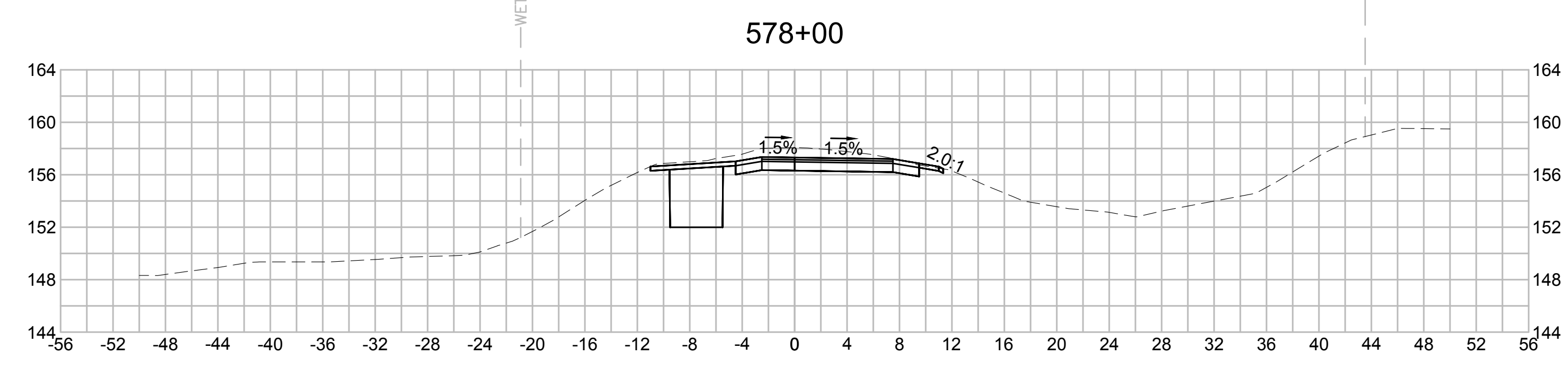
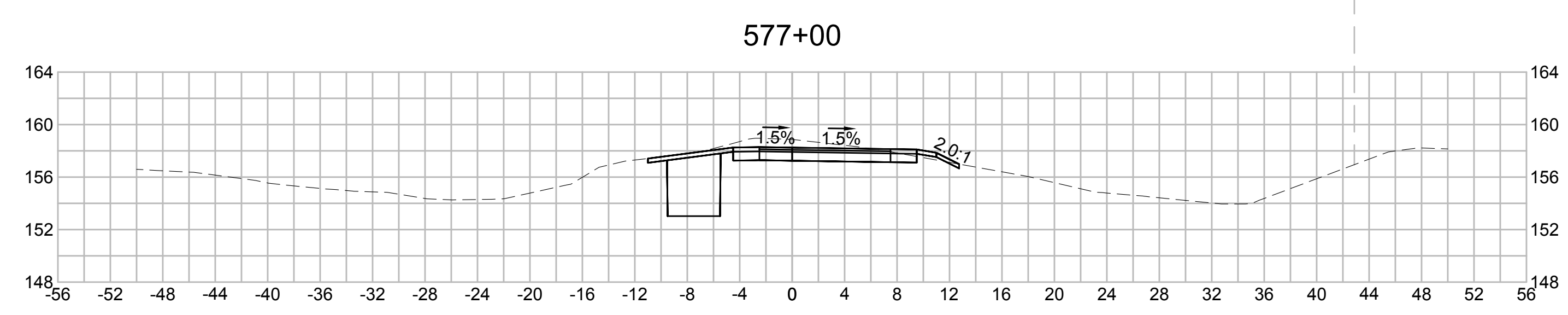
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 2800F316

|                              |                   |             |               |                 |             |      |
|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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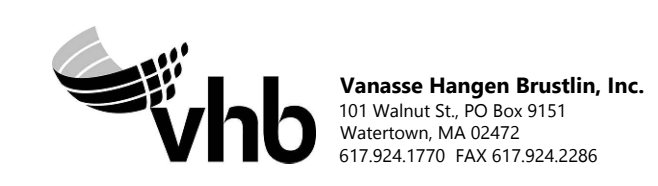
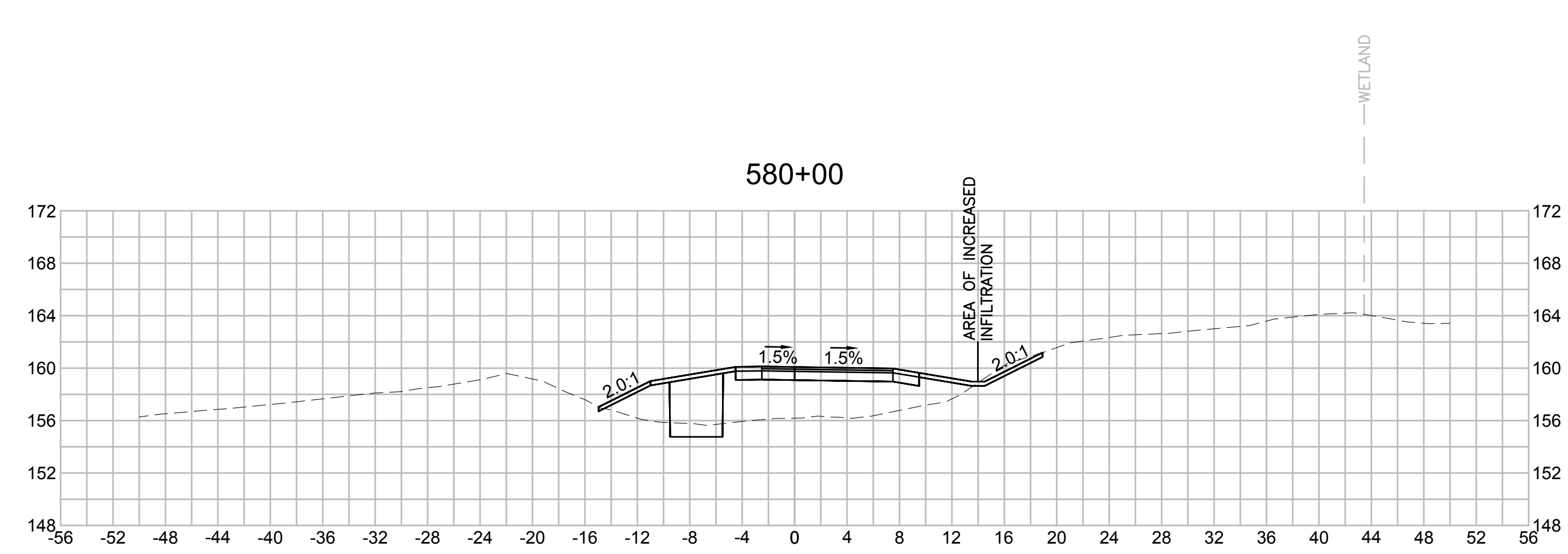
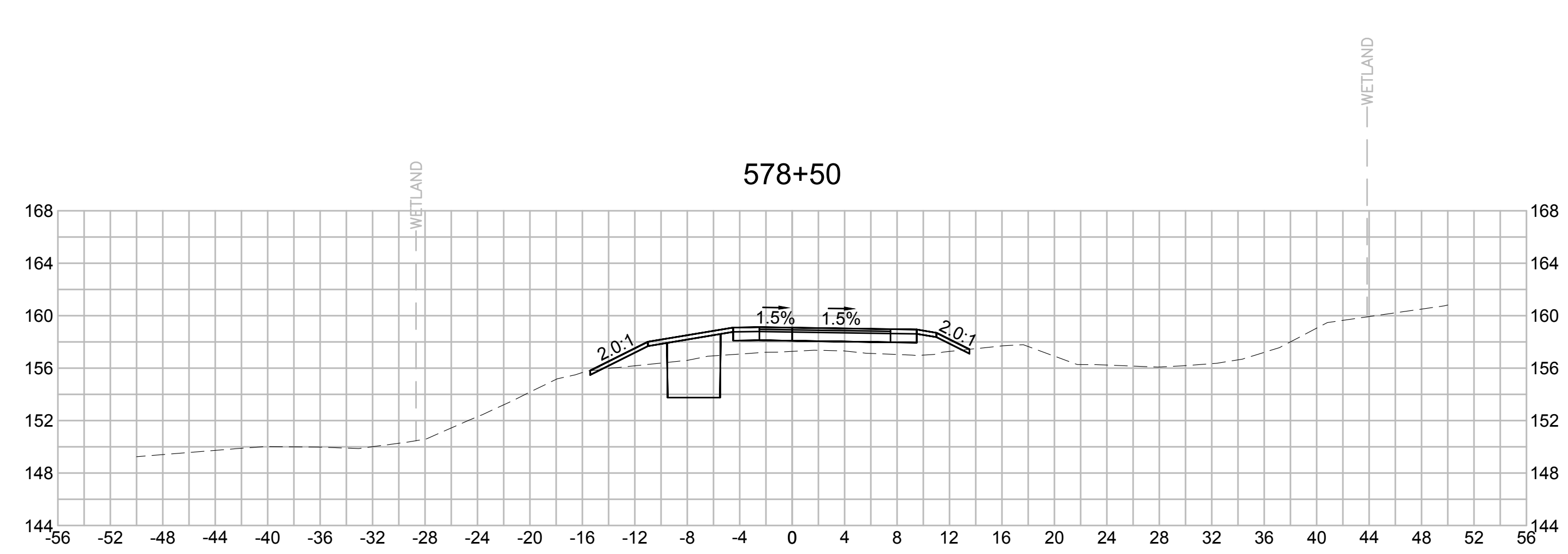
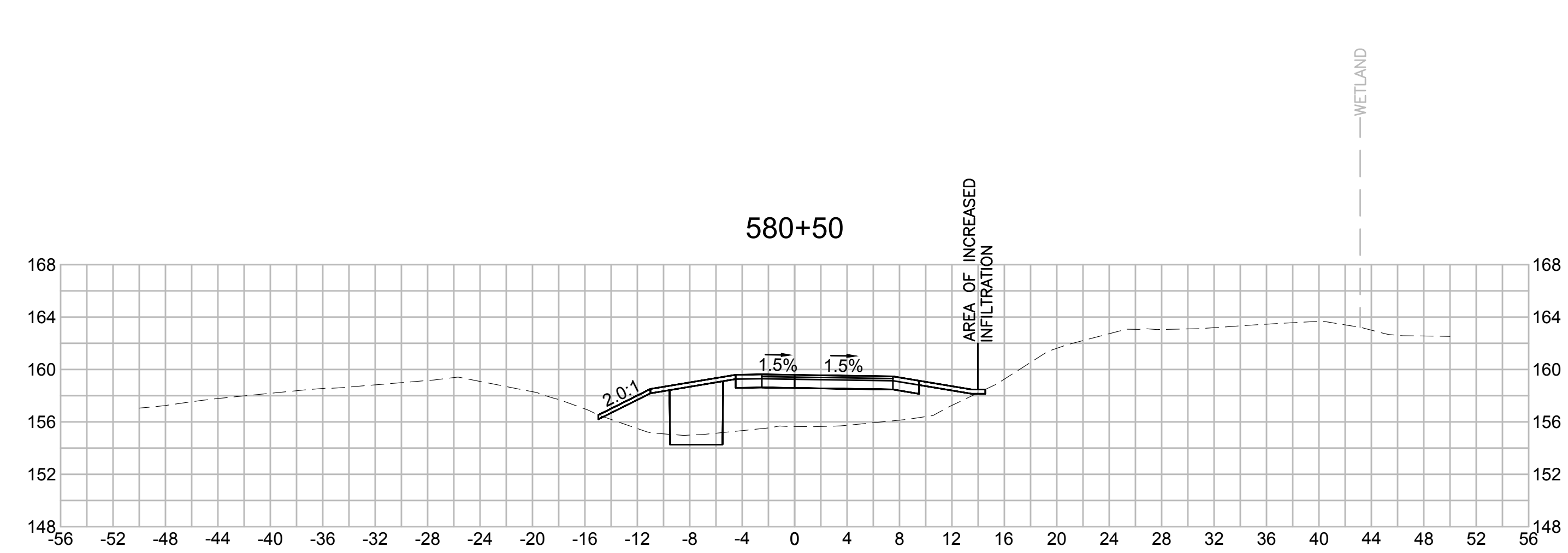
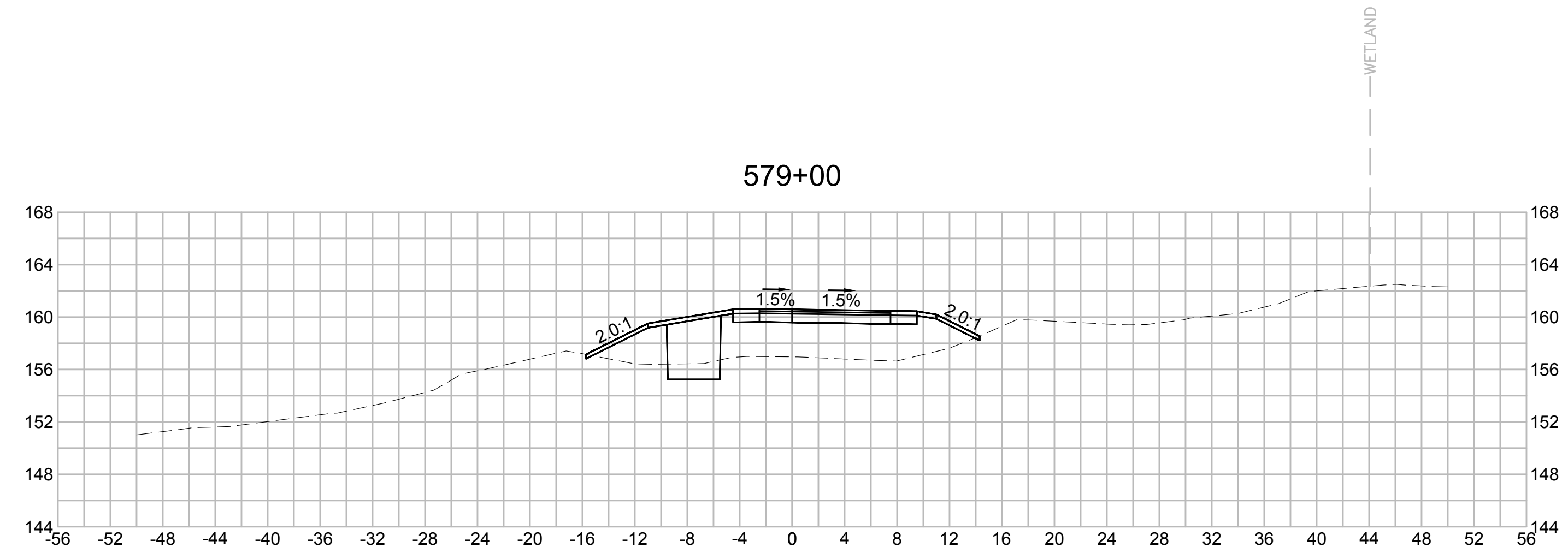
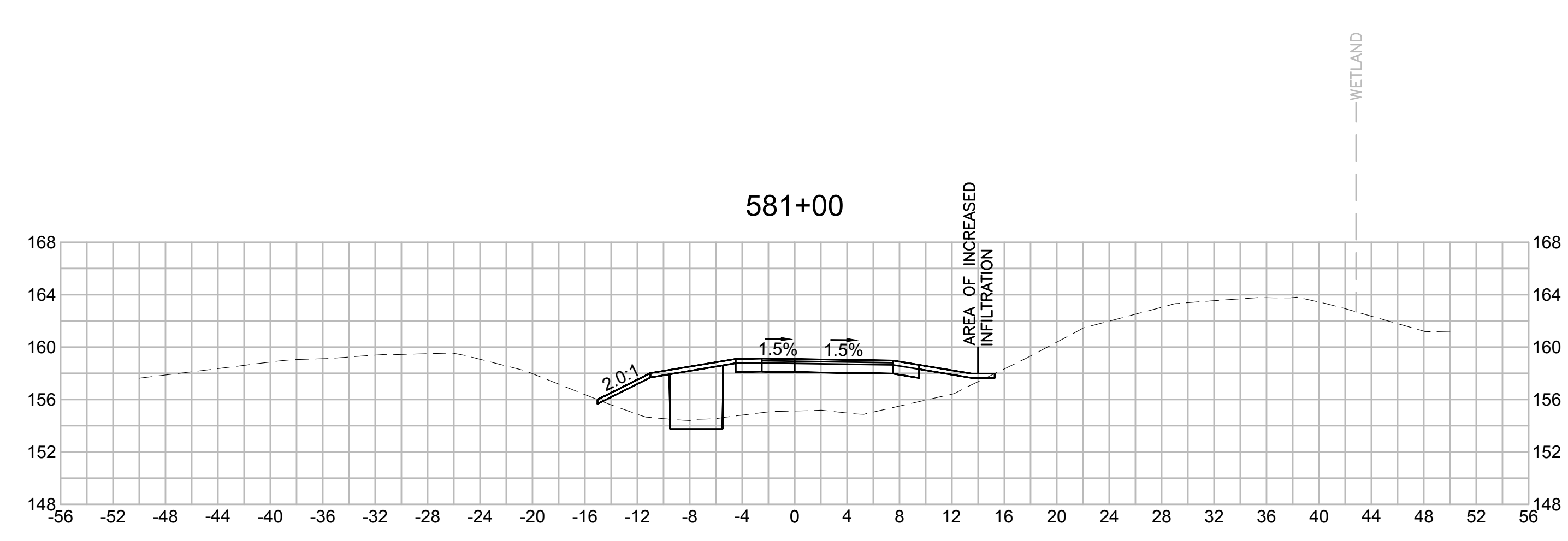
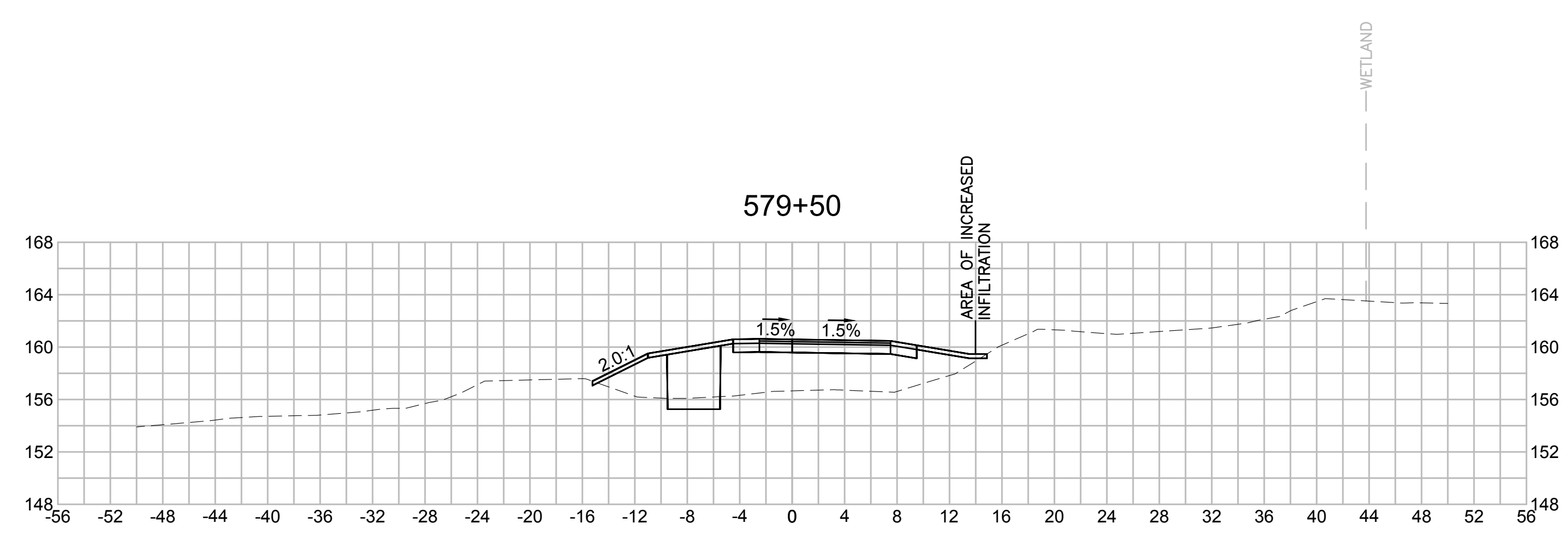
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| N O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
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|   | REVISION          |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 2810F316                                     |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |

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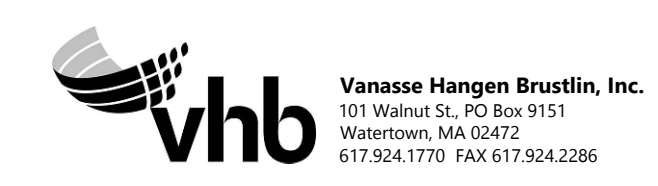
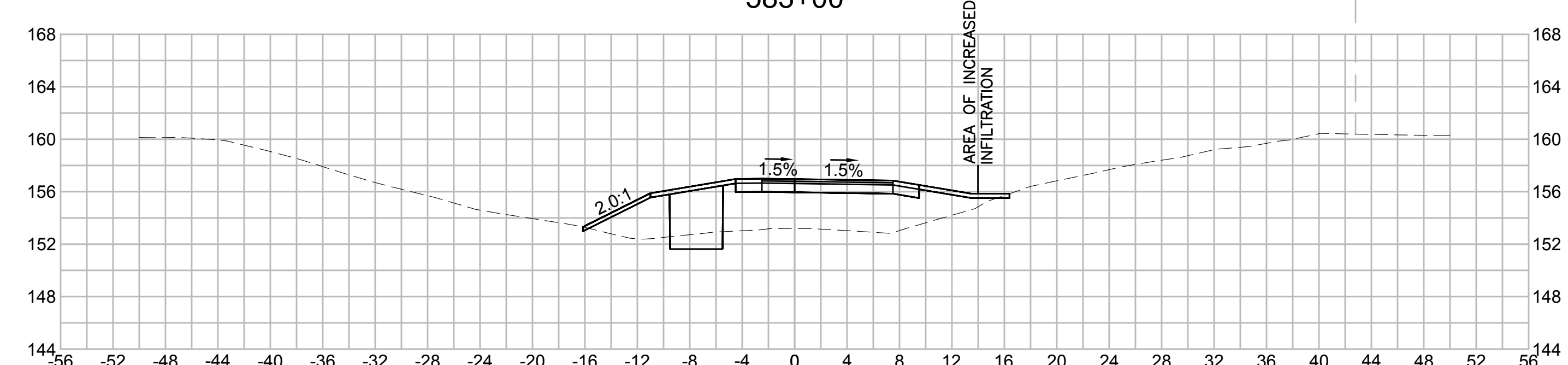
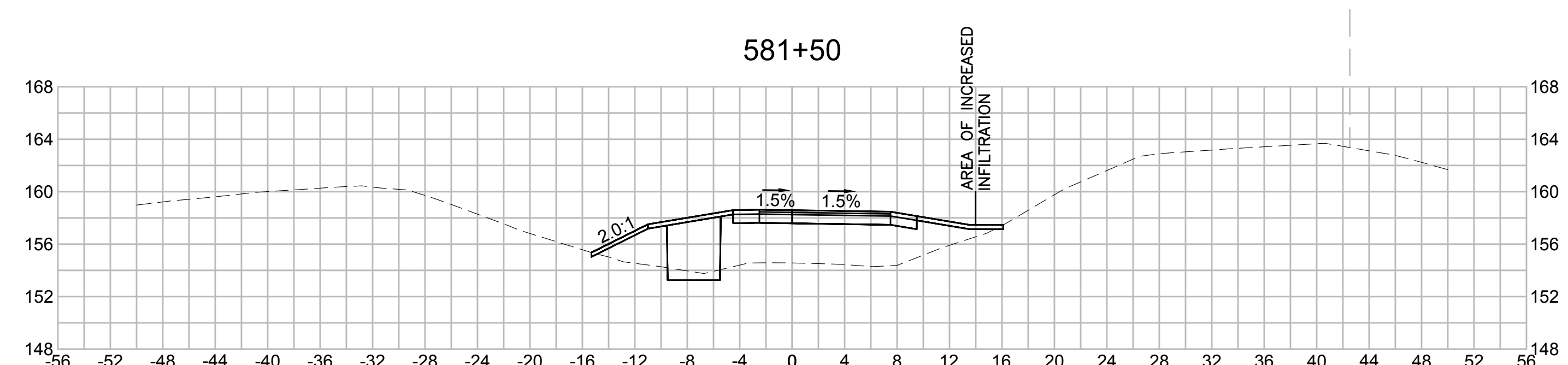
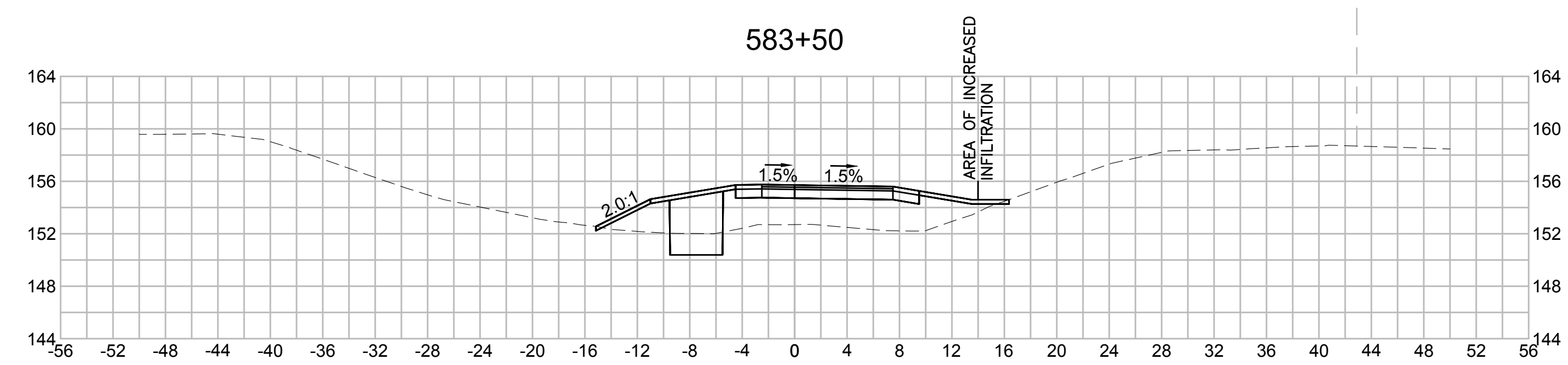
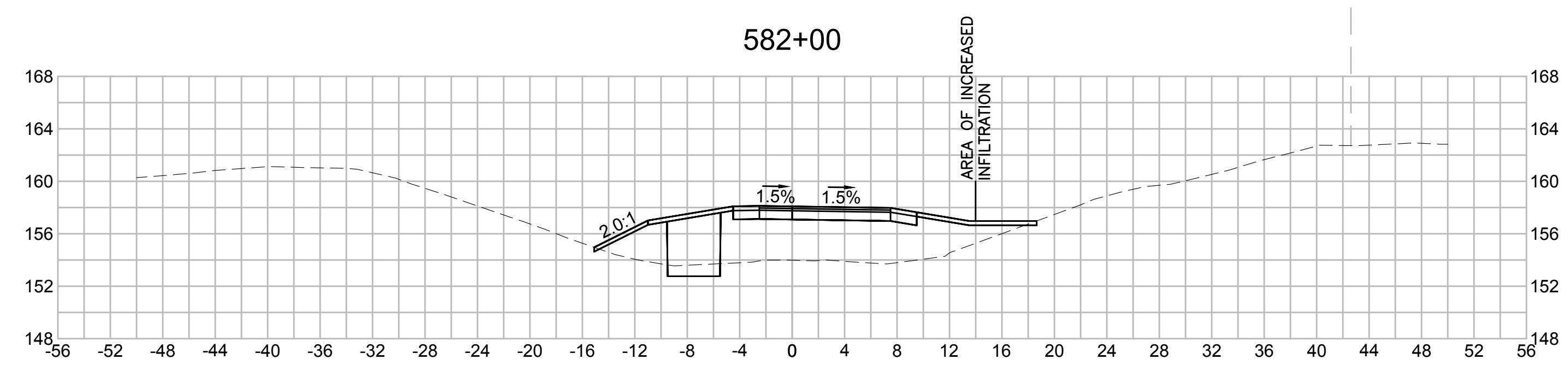
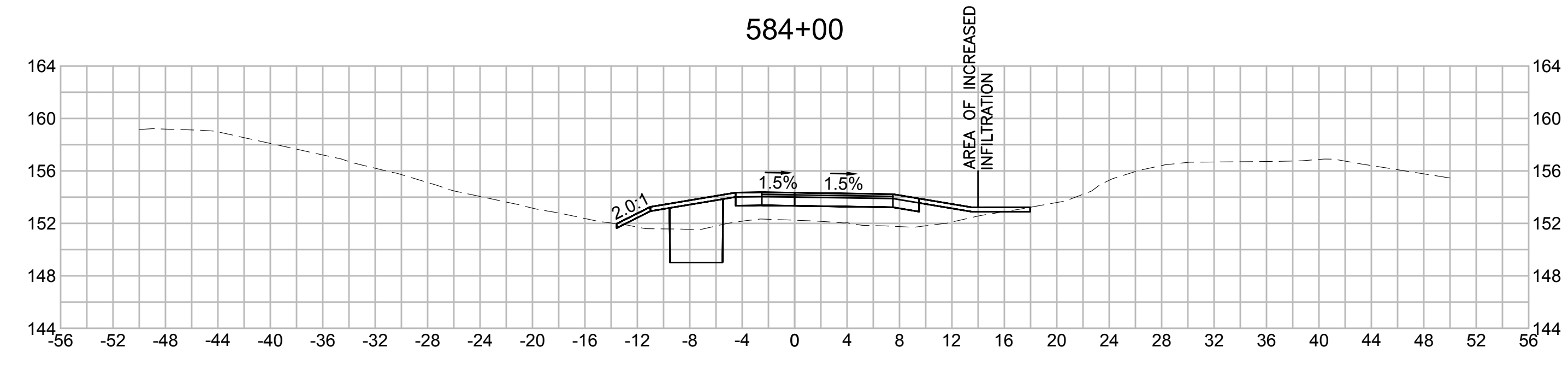
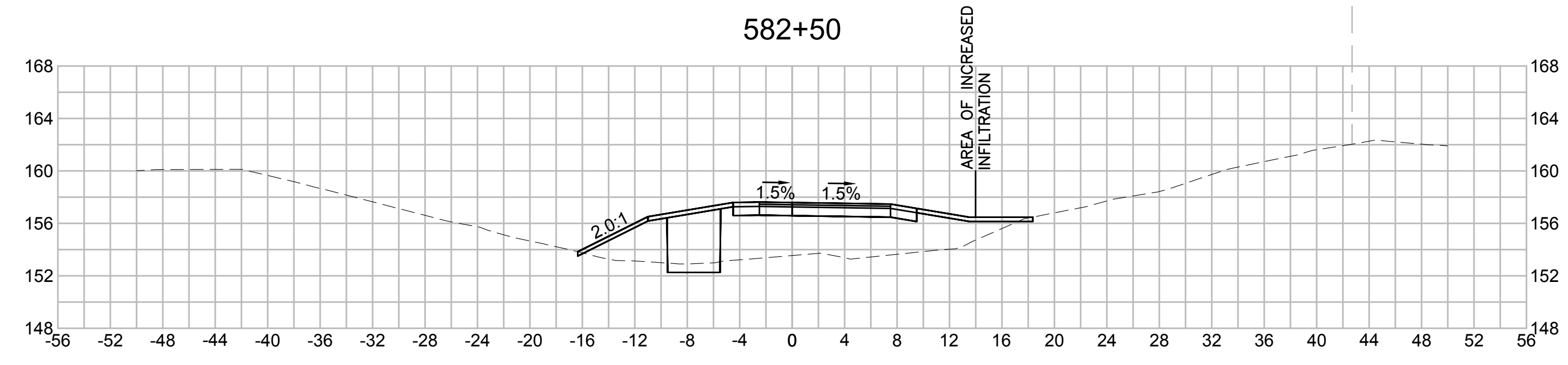
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| NO.   |  | DESCRIPTION                |  | BY                          | DATE | APPR.            |
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| REVISION  |  |                            |  |                             |      |                  |
| <b>EVERSOURCE</b>                                 |  |                            |  |                             |      |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |                            |  |                             |      |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |                            |  |                             |      |                  |
| CROSS SECTIONS                                    |  |                            |  |                             |      |                  |
| PLAN 282 OF 316                                   |  |                            |  |                             |      |                  |
| SCALE: unless noted<br>1"=8'                      |  | DATE DRAWN<br>JULY 2020 MS |  | C H'K D. A P P R.<br>SK MES |      | DRAWING NO. REV. |

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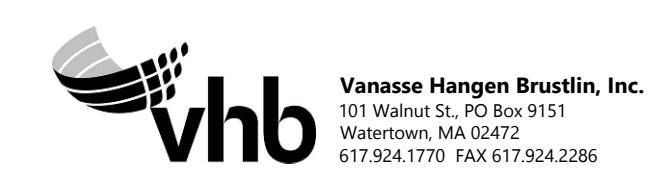
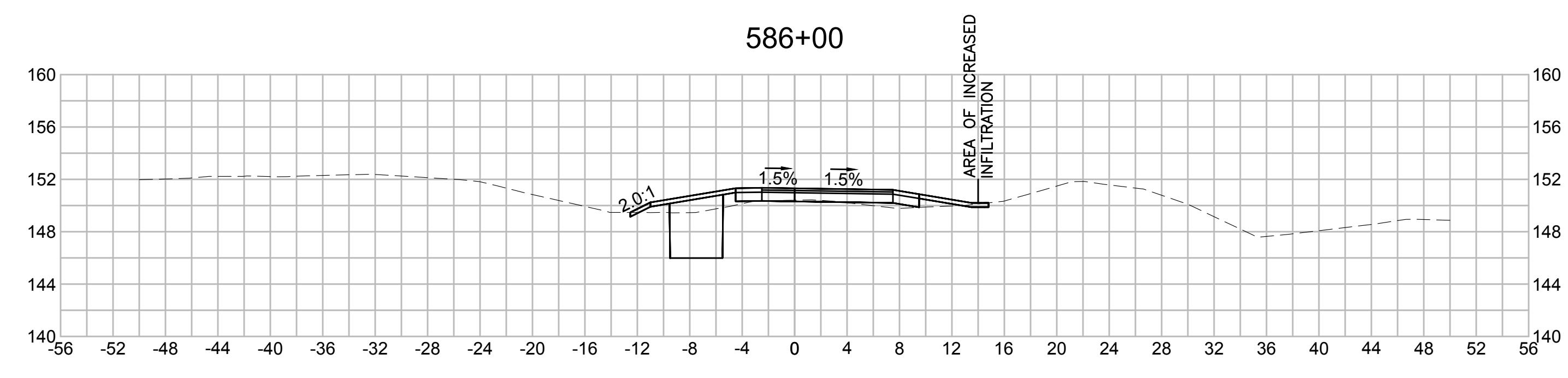
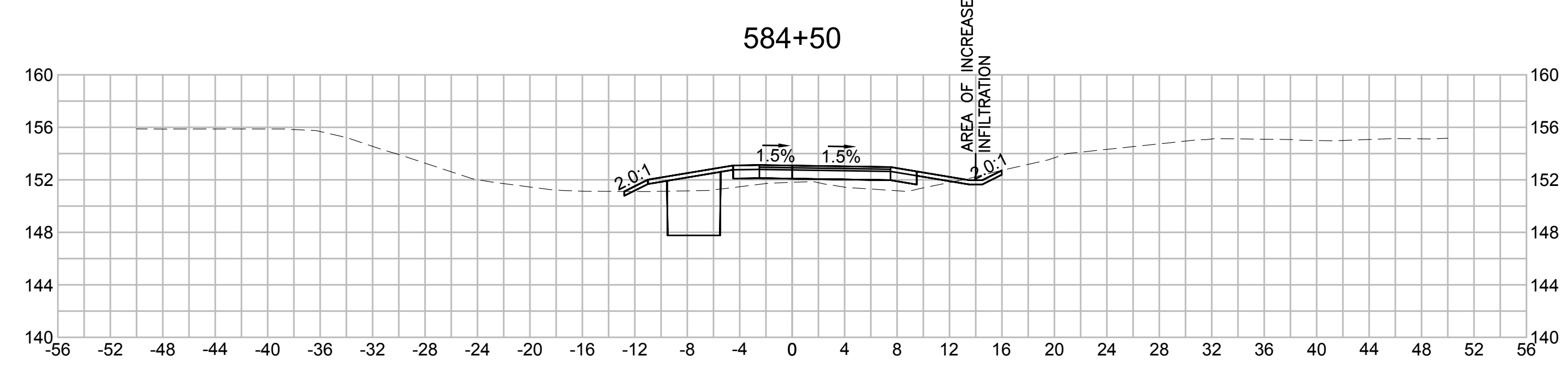
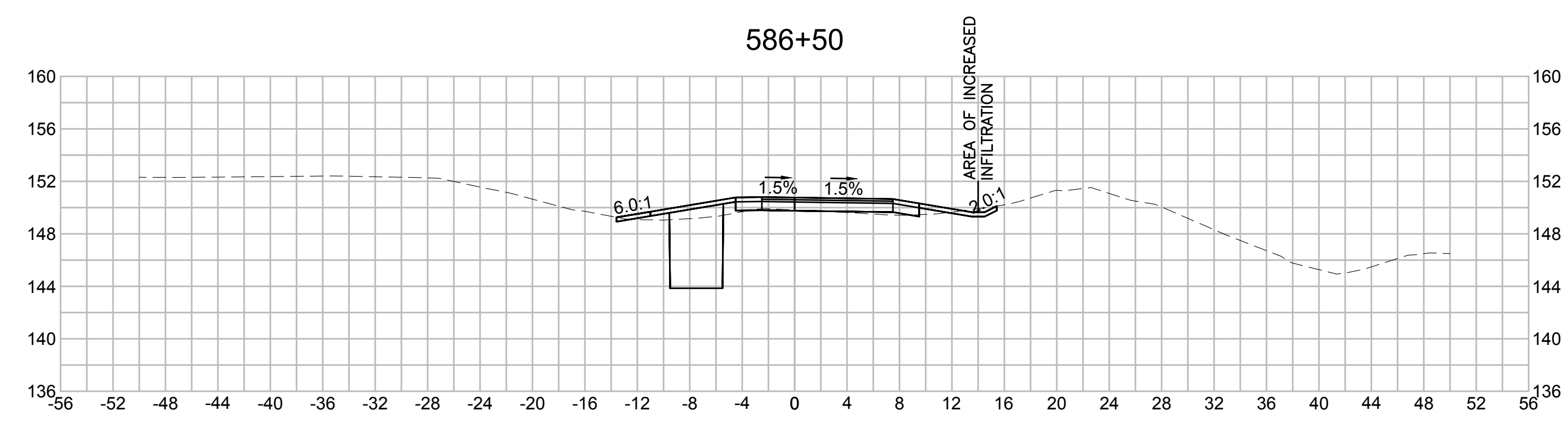
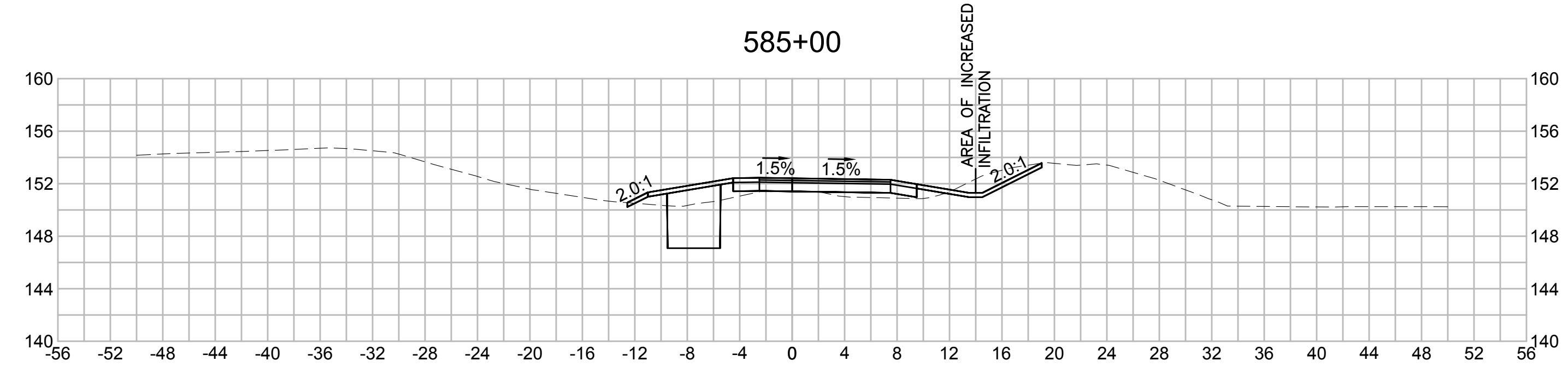
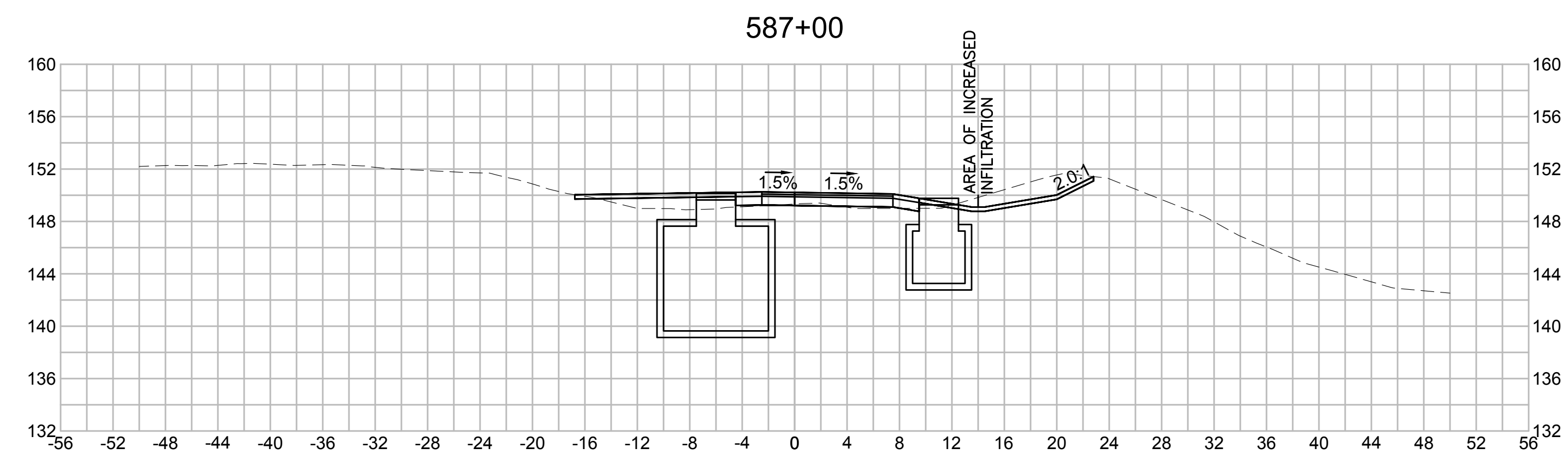
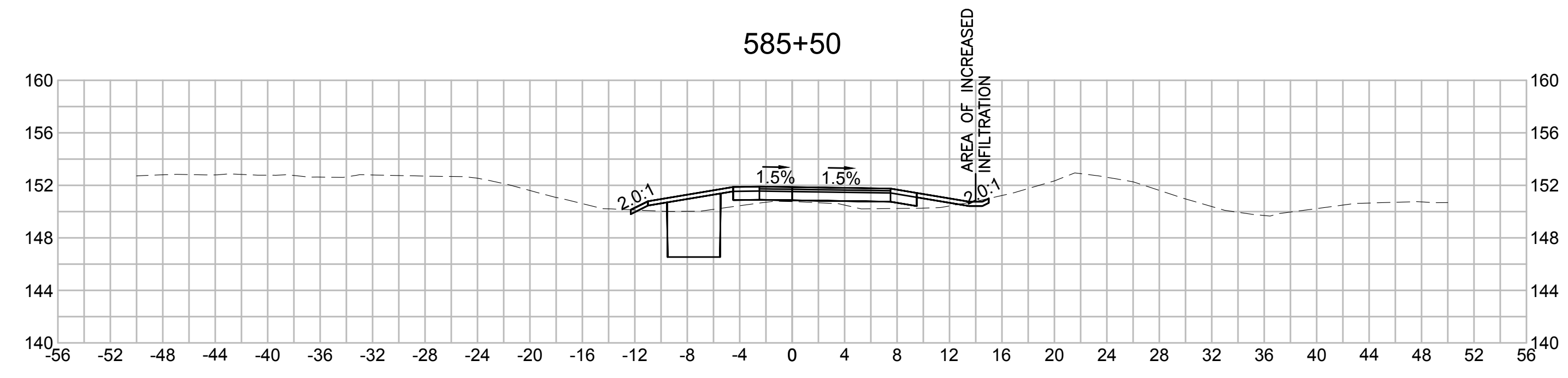
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| N O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

# EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 283 OF 316

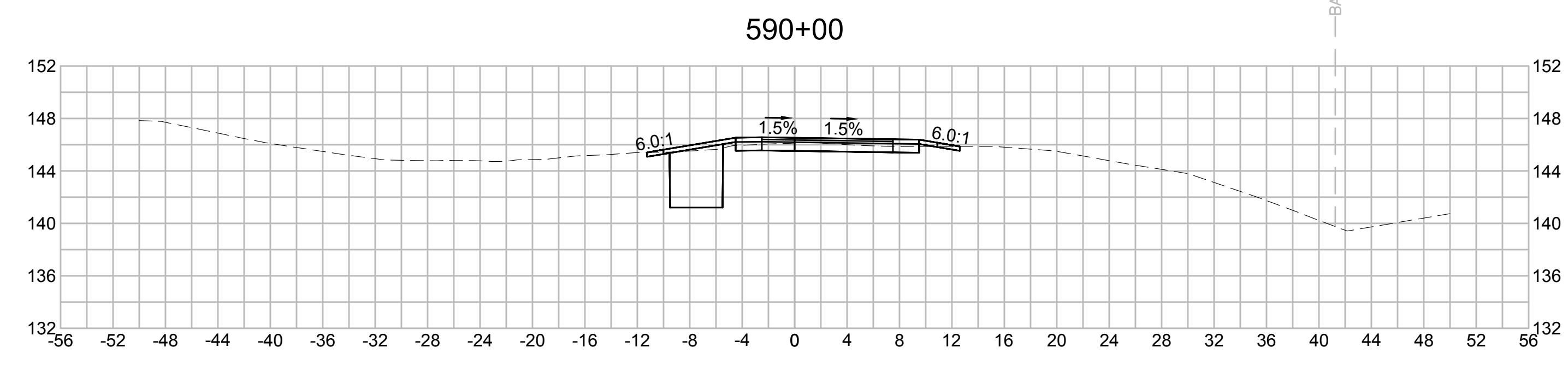
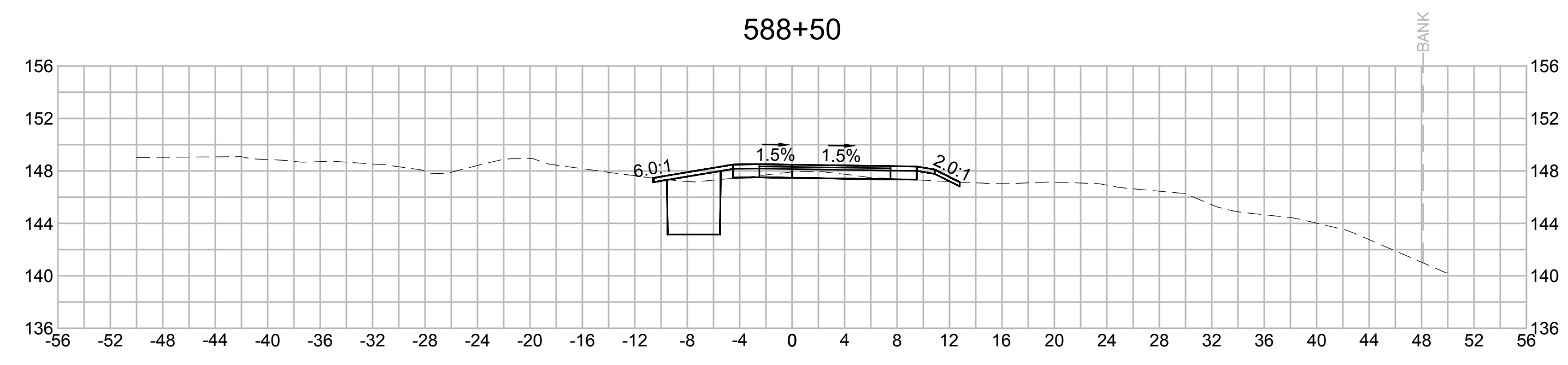
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|------------------------------|-------------------|-------------|---------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES | DRAWING NO. | REV. |
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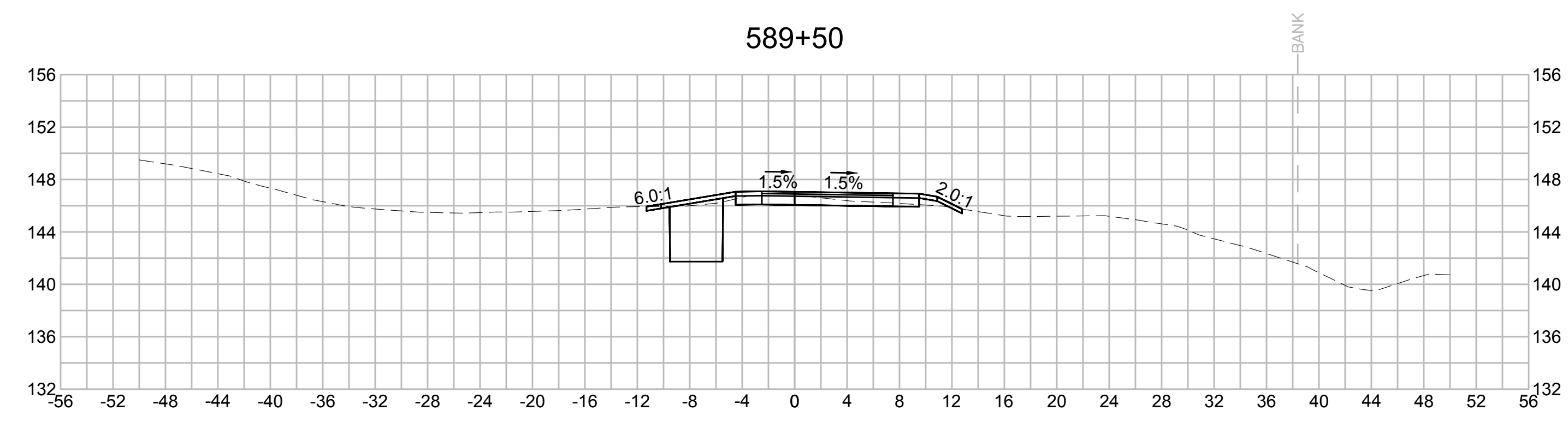
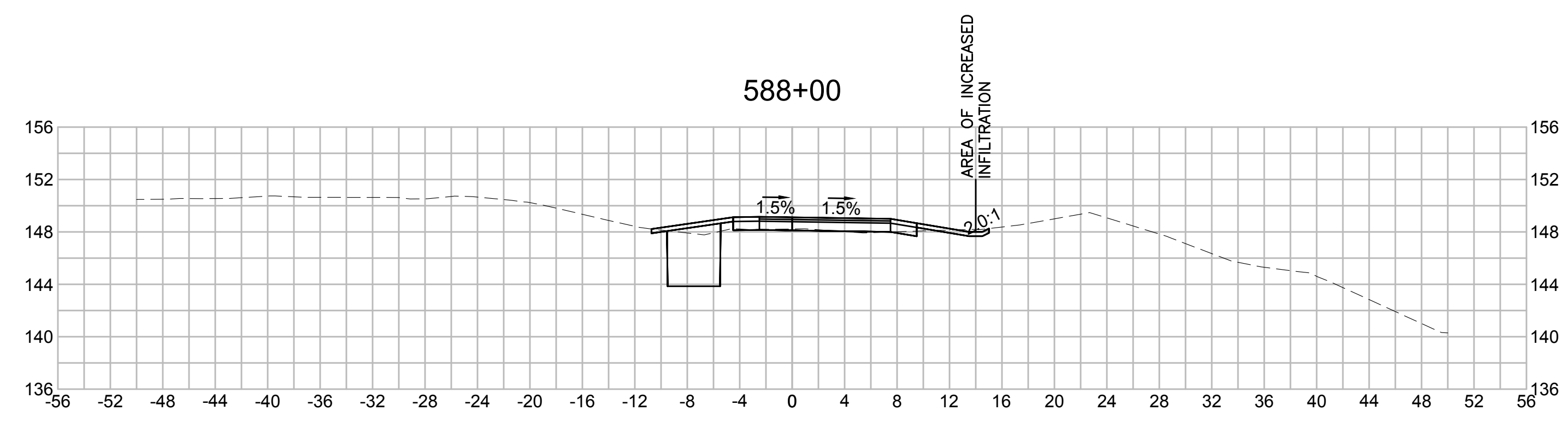
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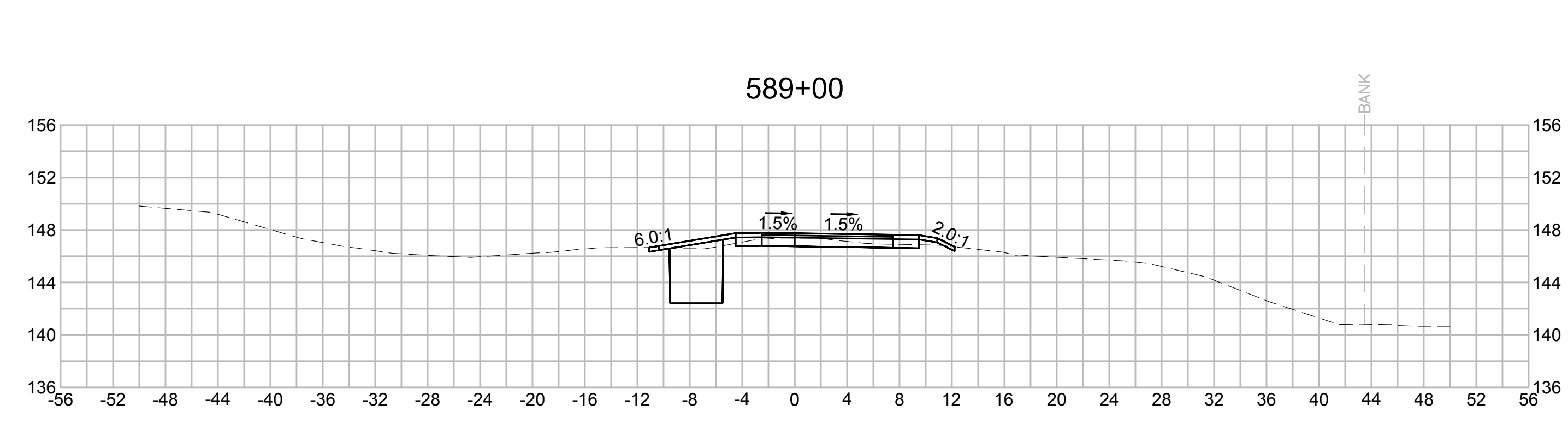
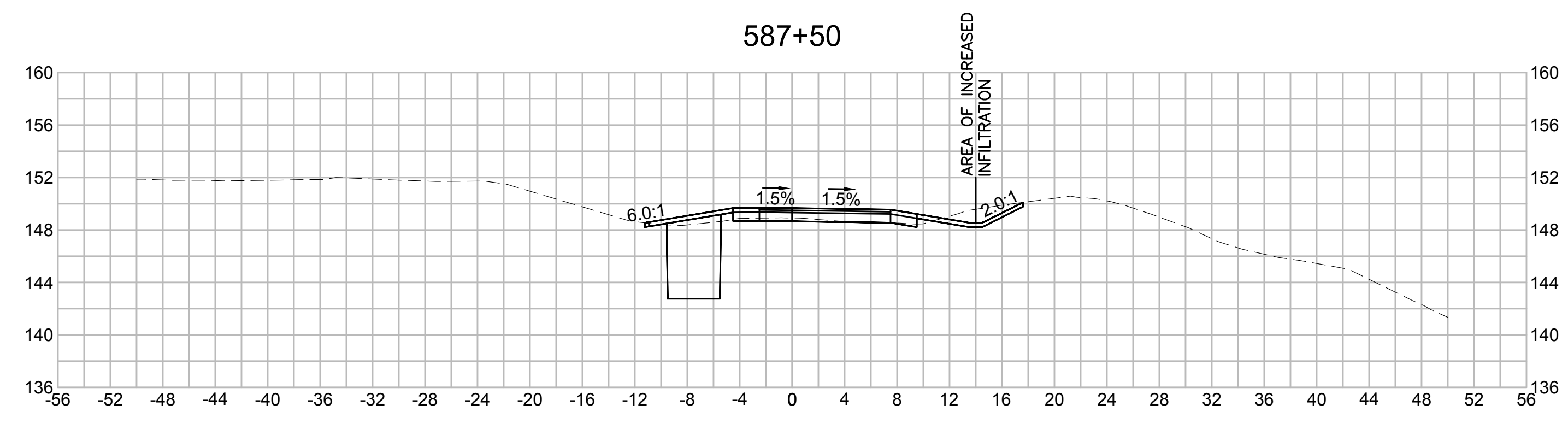
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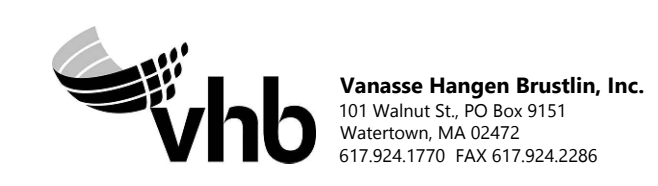


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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 284 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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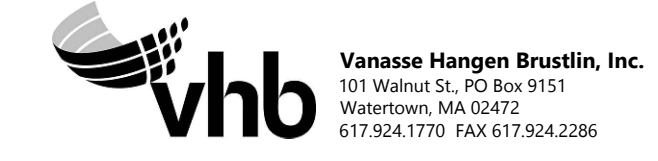
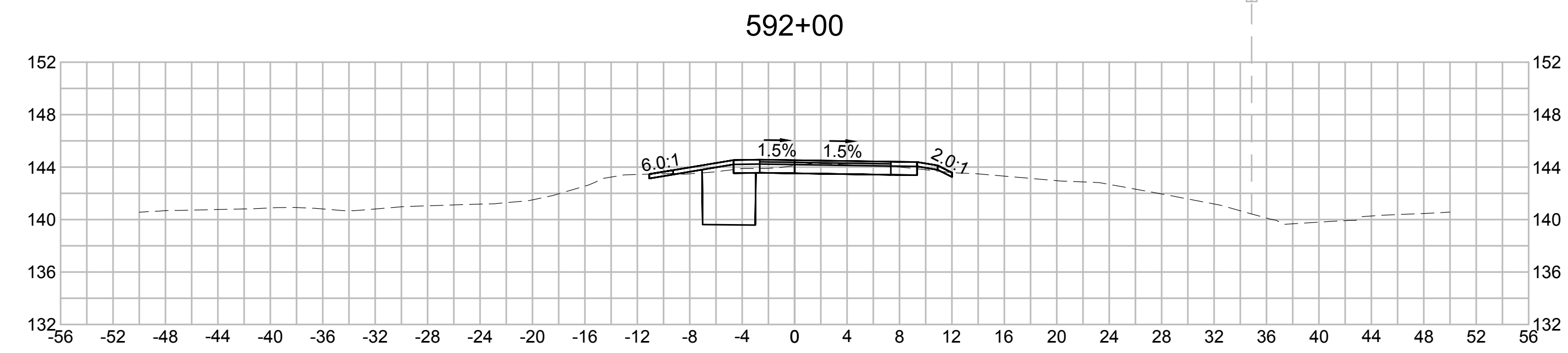
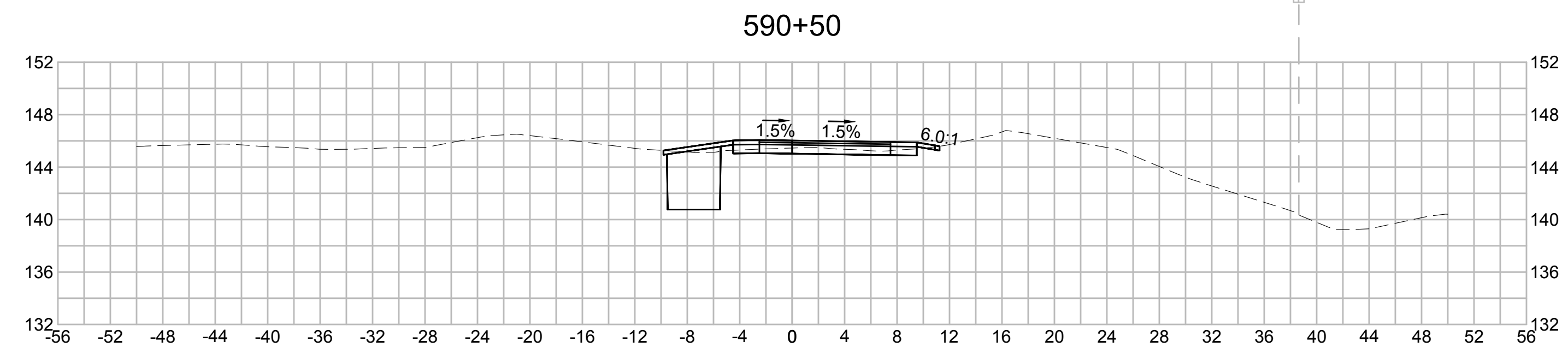
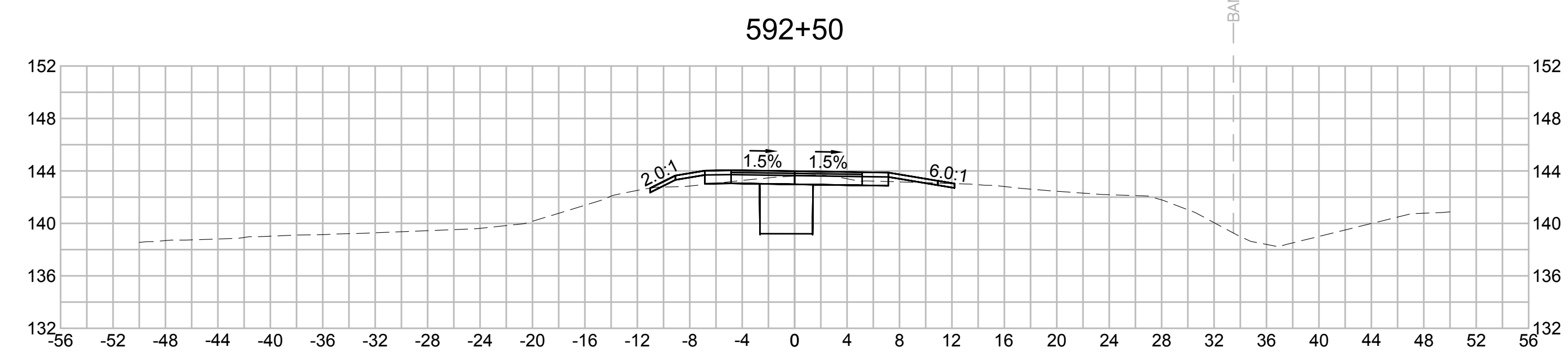
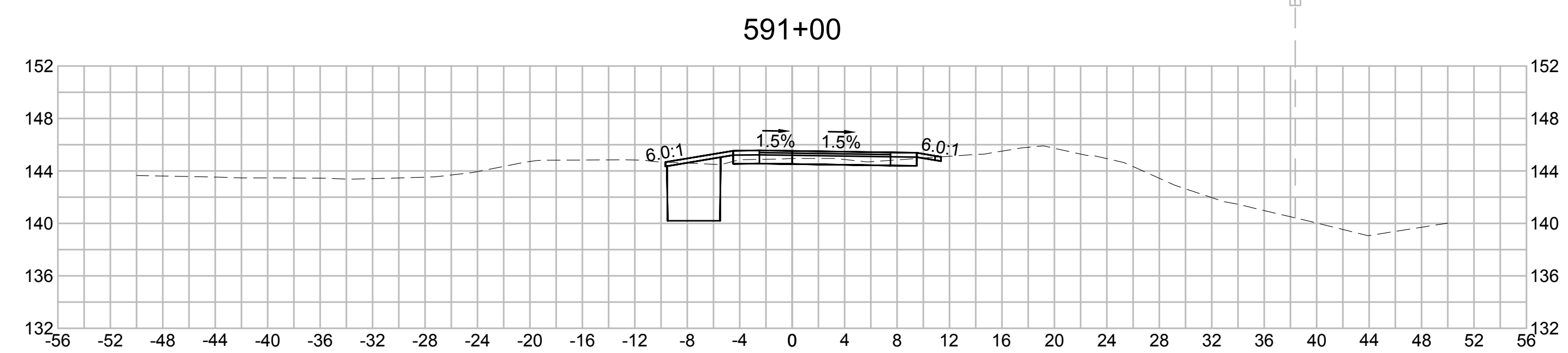
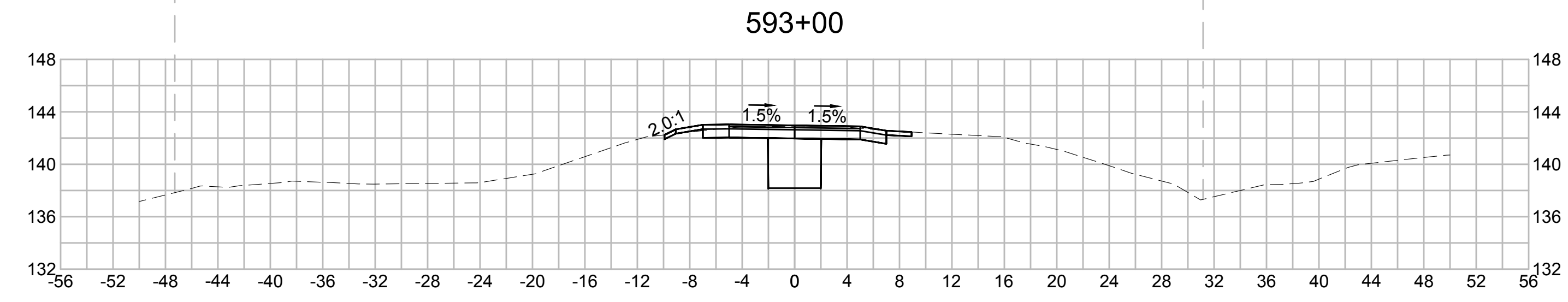
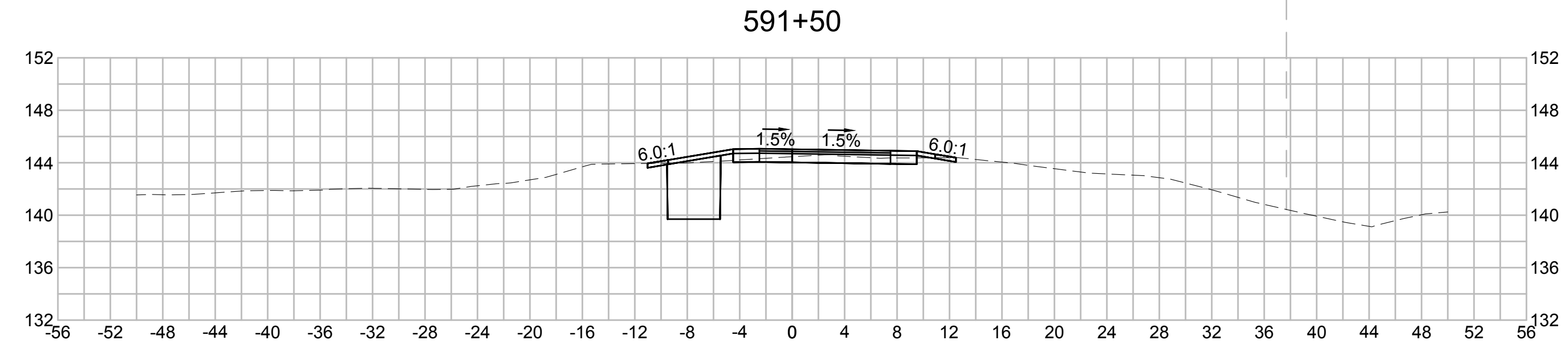
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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.        |
|---|-------------------|-------------|---------------|--------------|
|   | REVISION          |             |               |              |
| <b>EVERSOURCE</b>                                 |                   |             |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |              |
| CROSS SECTIONS                                    |                   |             |               |              |
| PLAN 285 OF 316                                   |                   |             |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |               |              |

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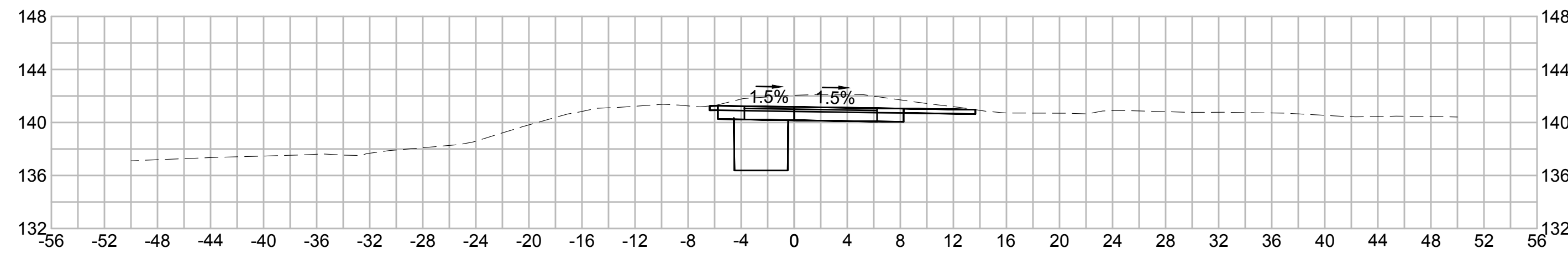
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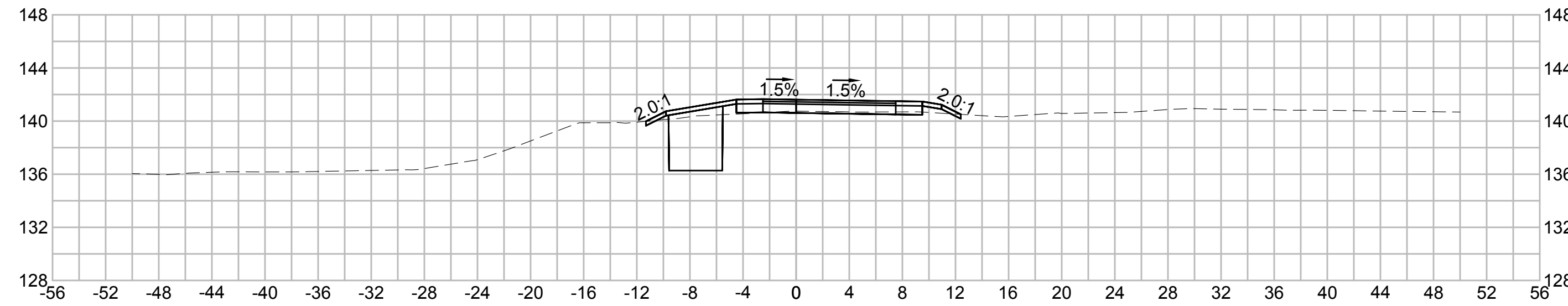
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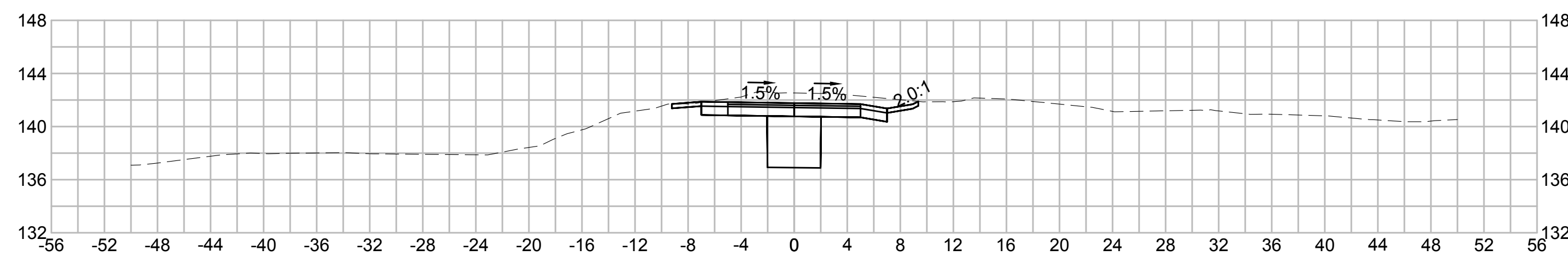
594+00



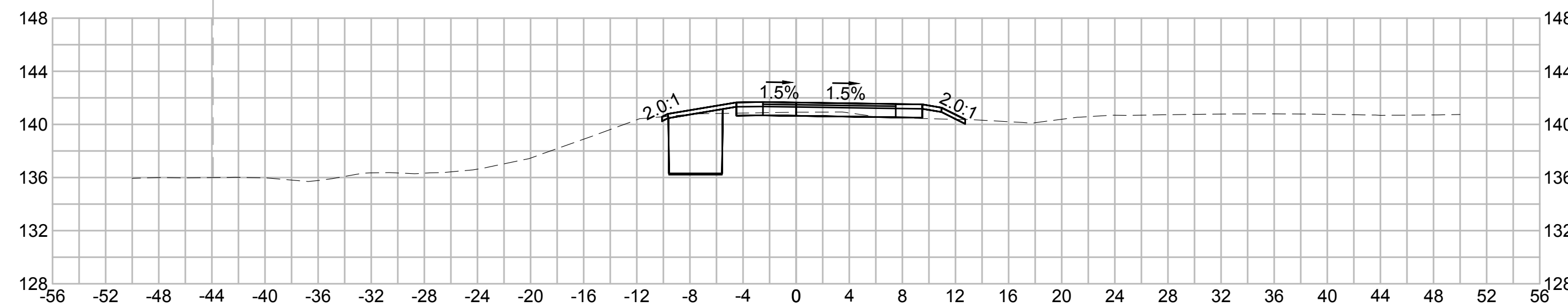
595+50



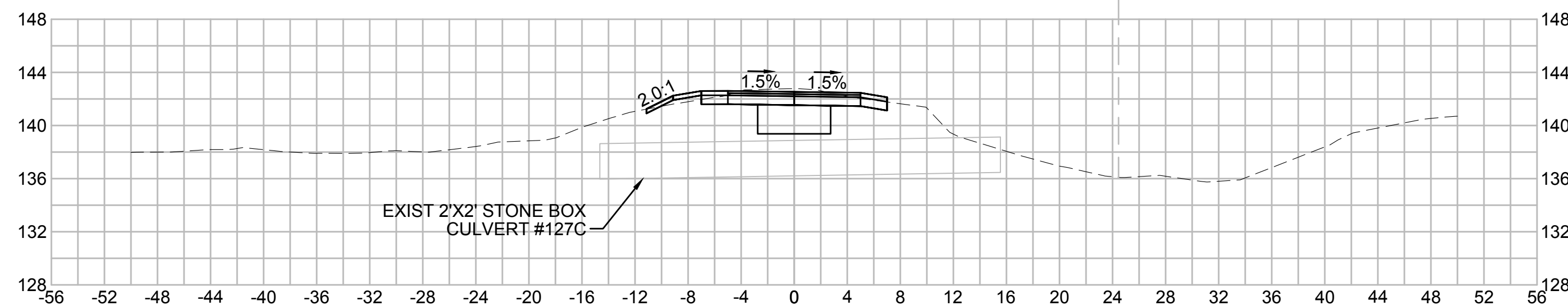
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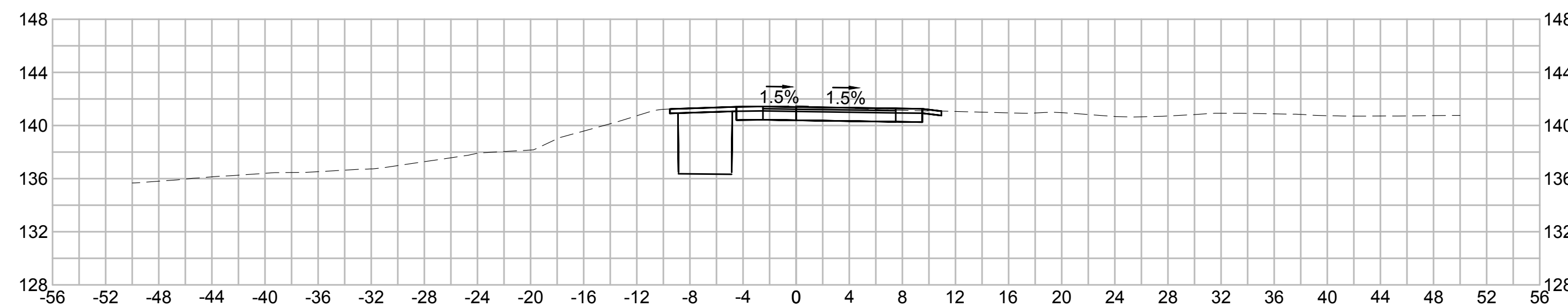
595+00



593+18.03



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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 286 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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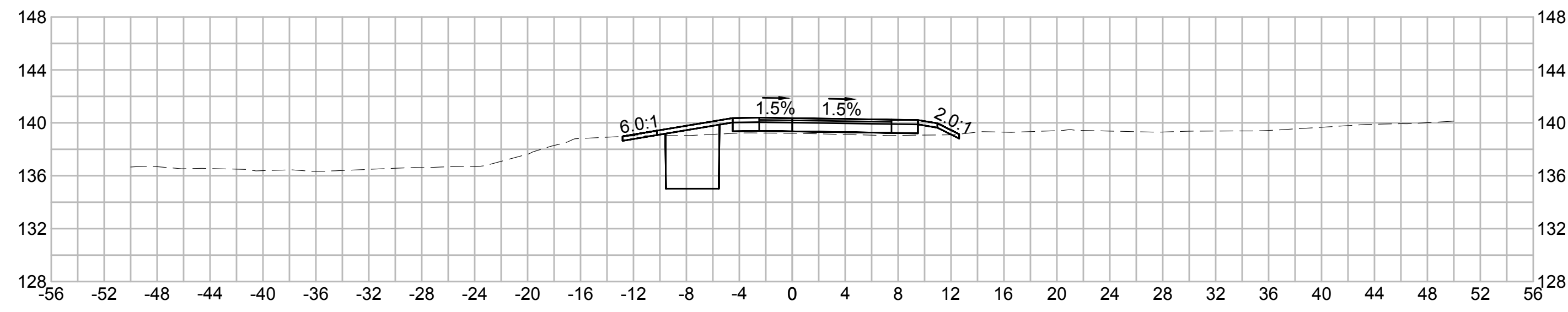
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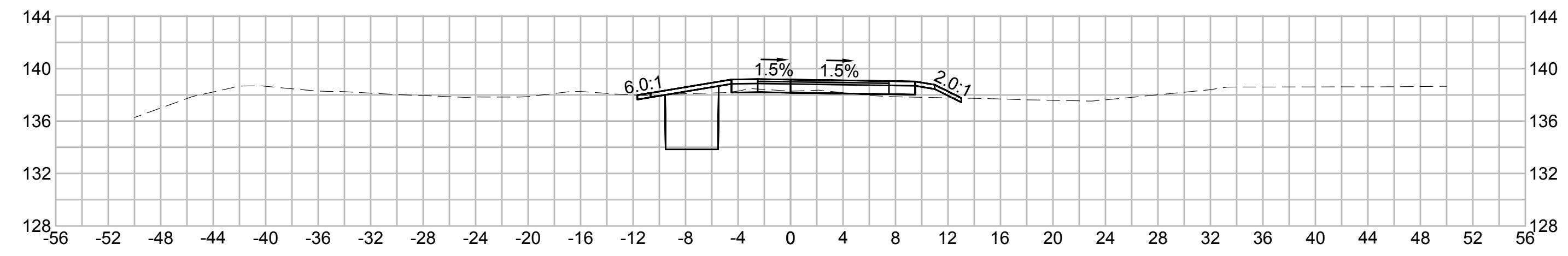
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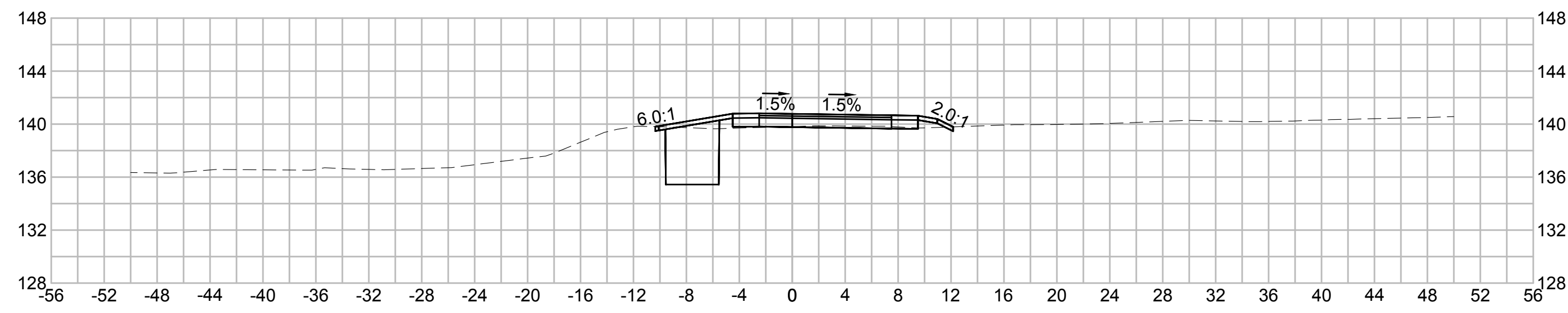
597+00



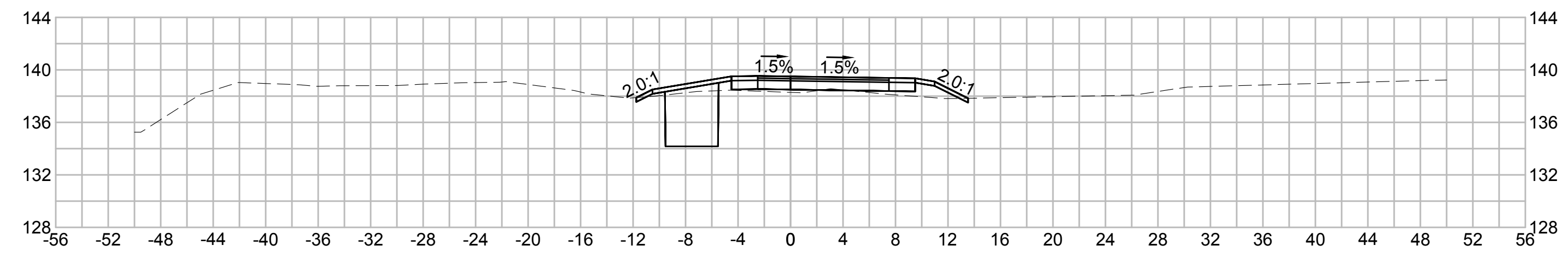
598+50



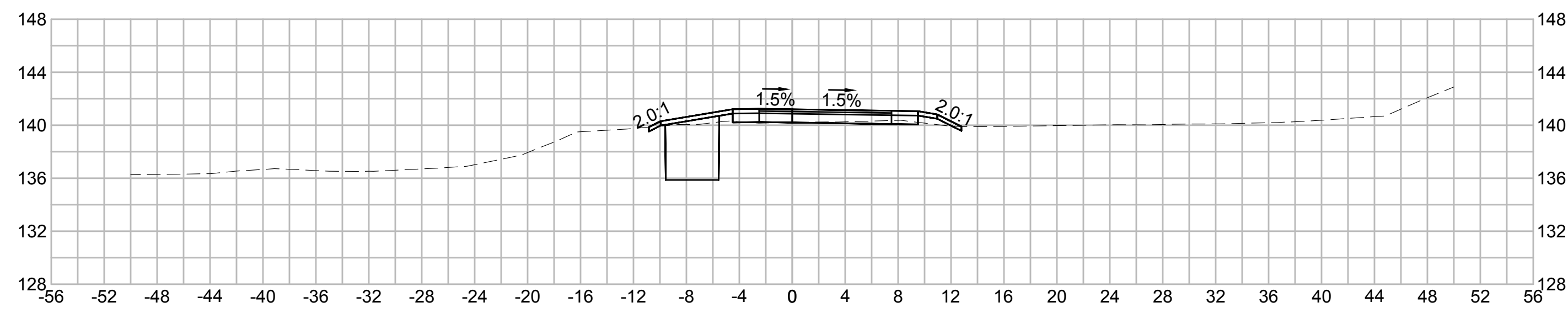
596+50



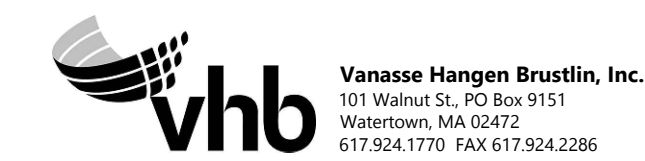
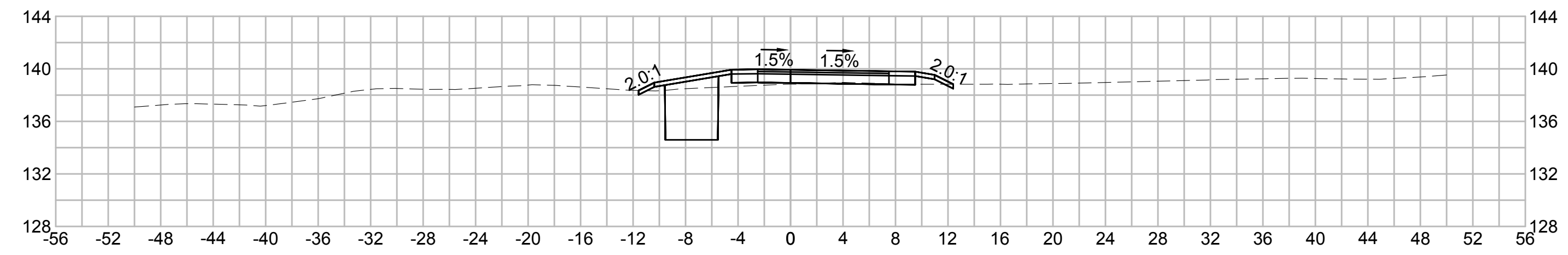
598+00



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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 287 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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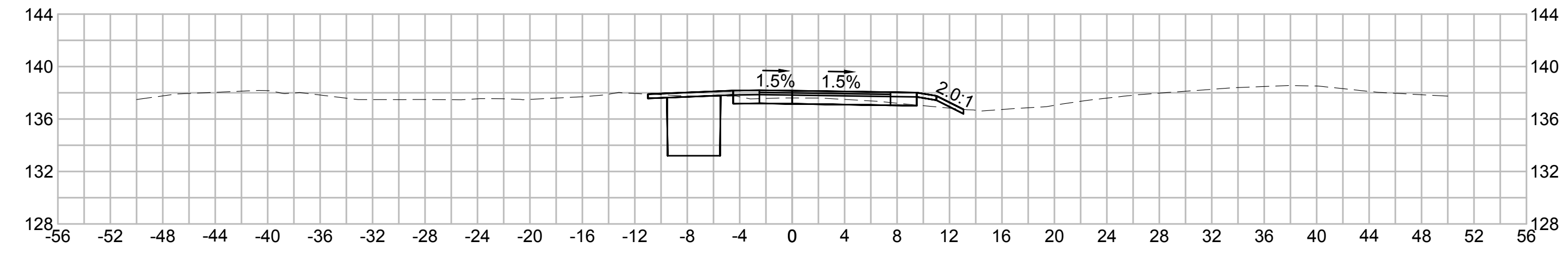
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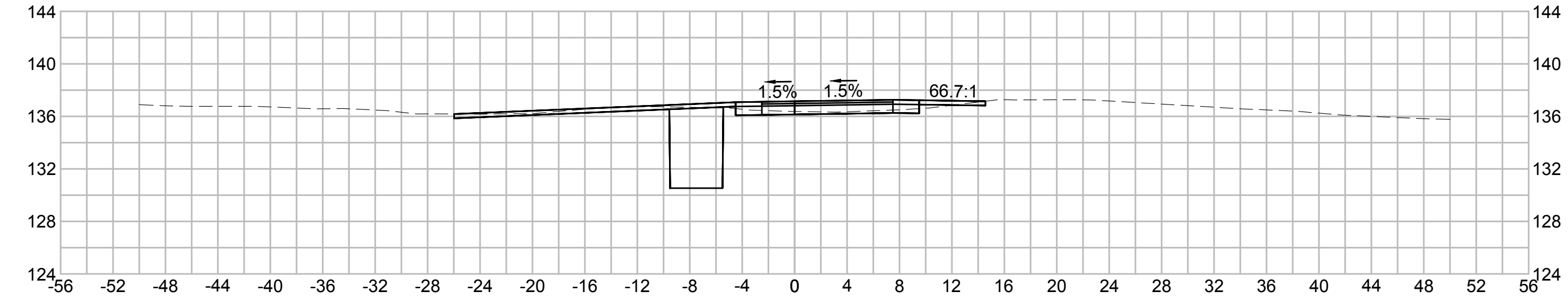
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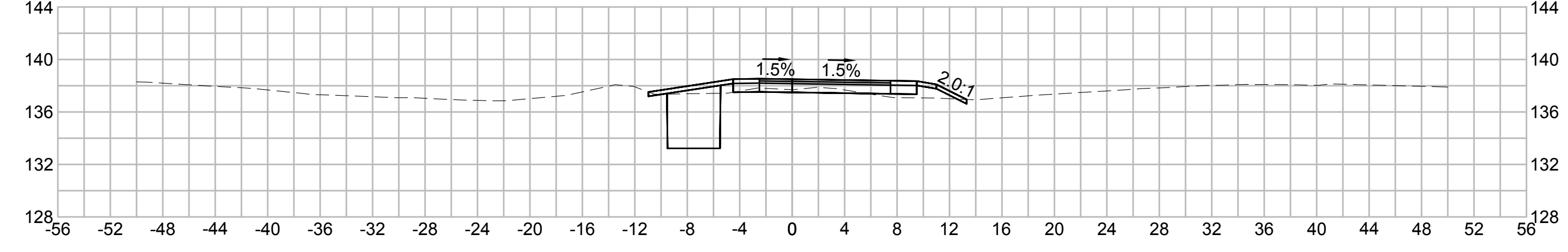
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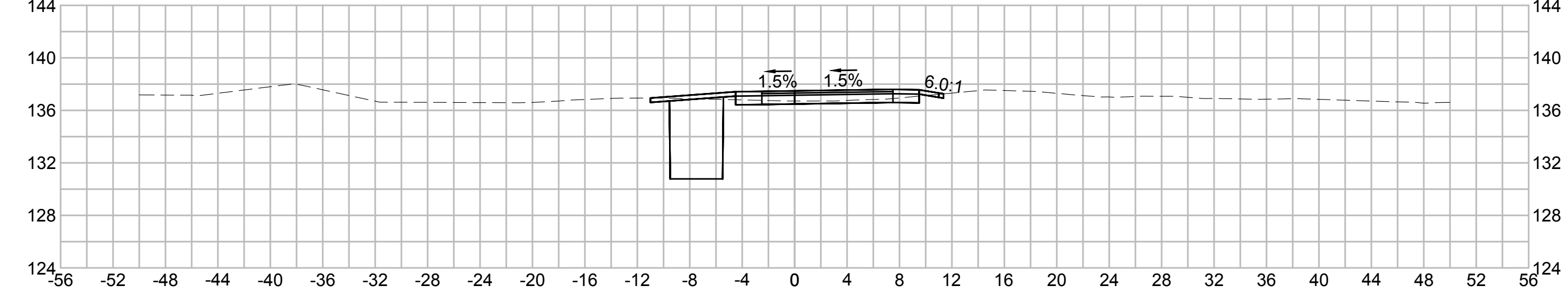
601+50



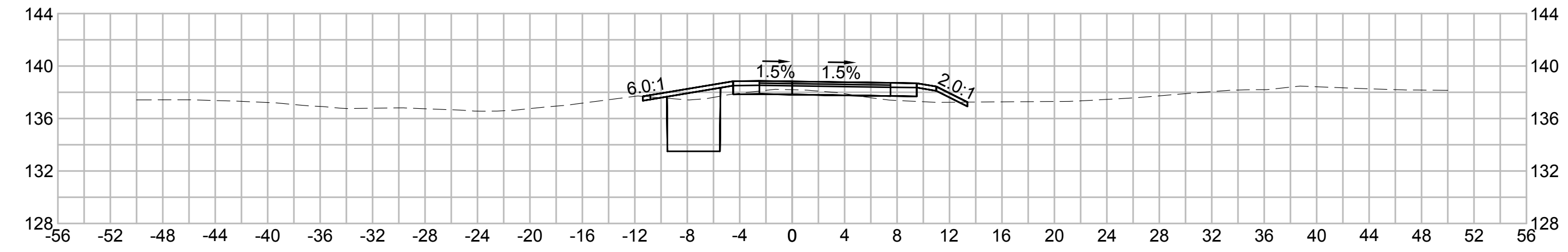
599+50



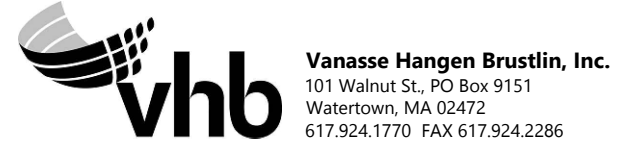
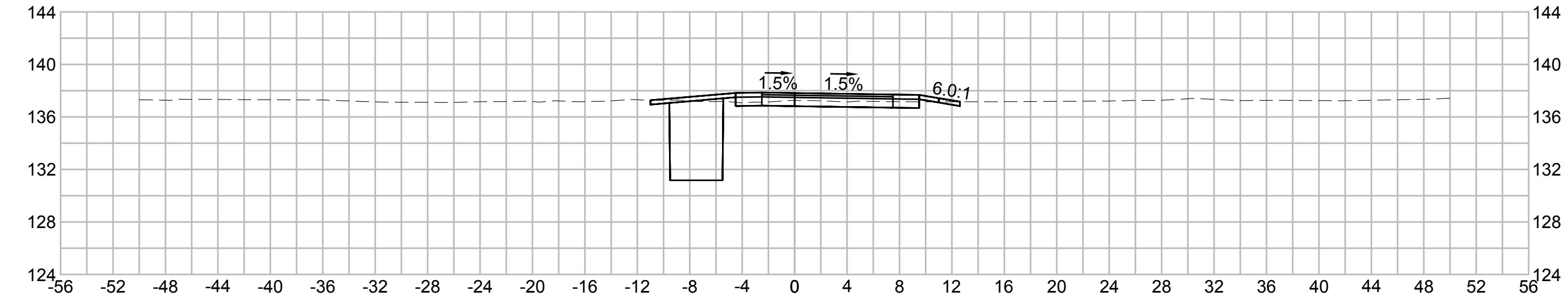
601+00



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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 288 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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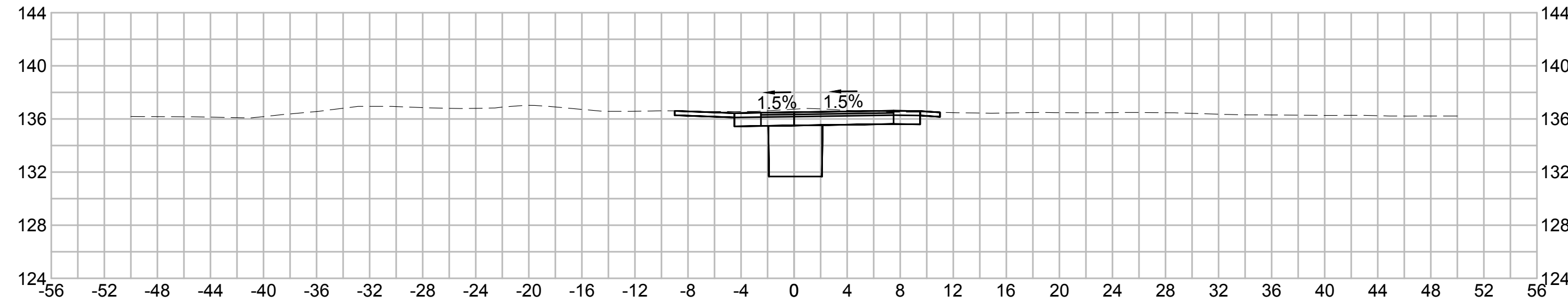
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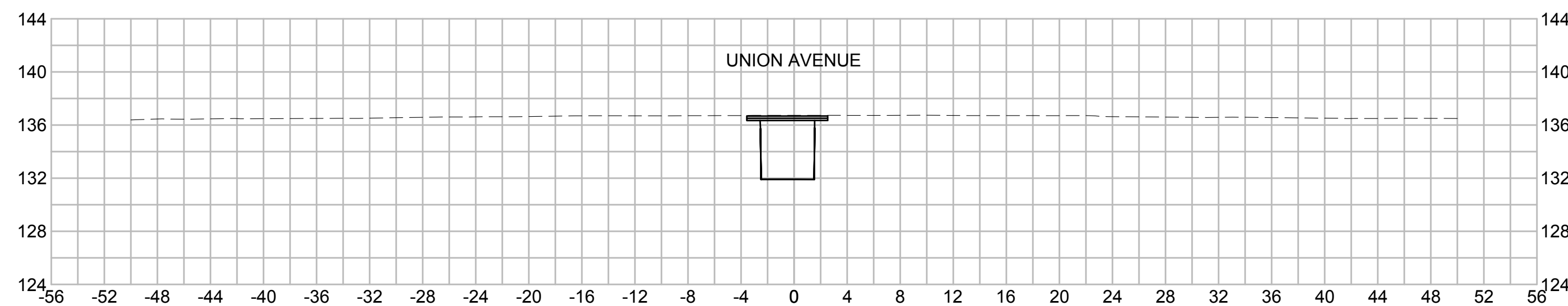
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602+50

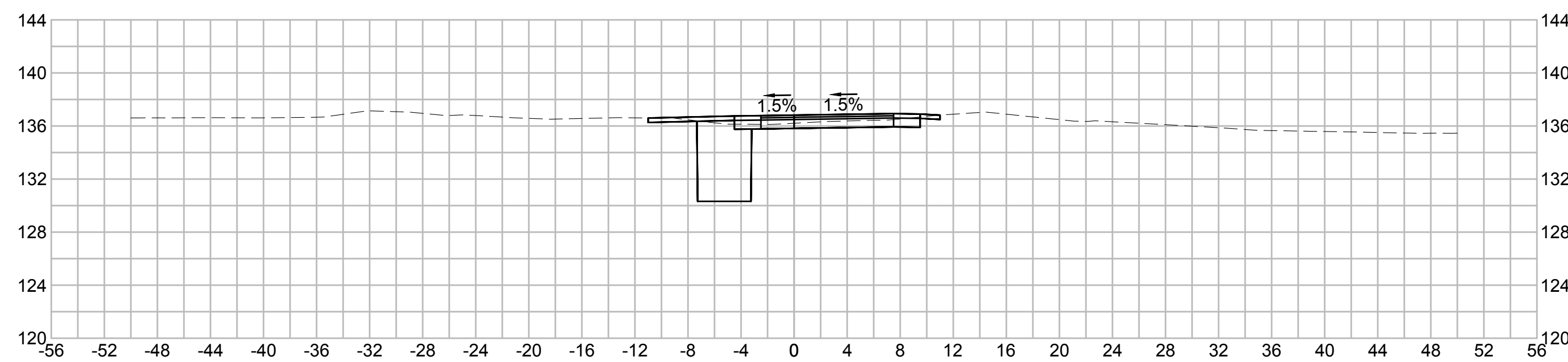


602+38.67

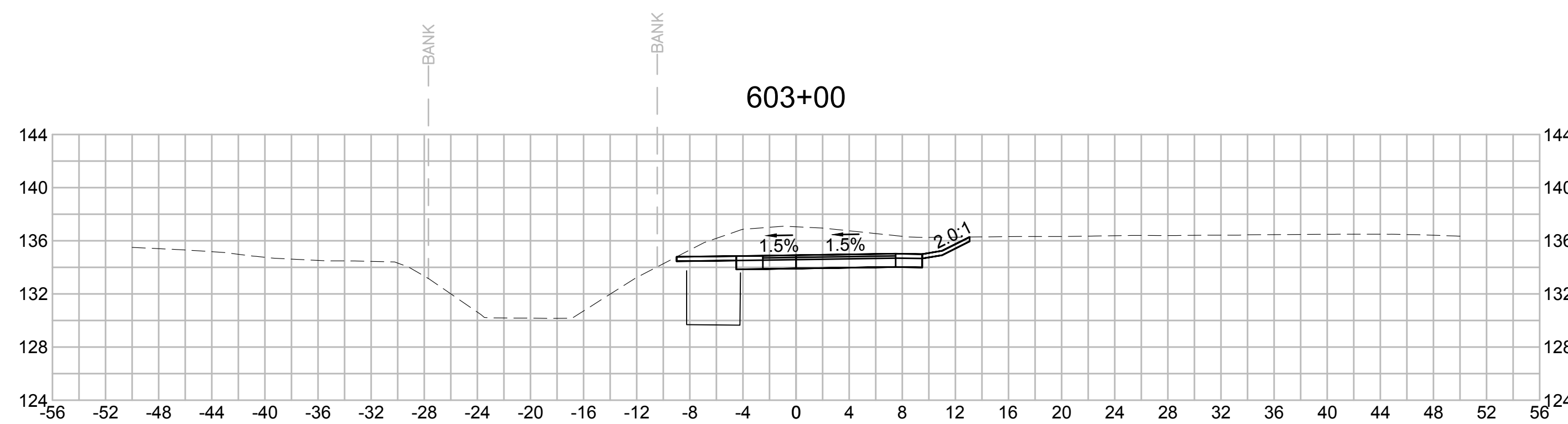
UNION AVENUE



602+00



603+00



| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.           |
|---|-------------------|-------------|---------------|-----------------|
|   | REVISION          |             |               |                 |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |
| CROSS SECTIONS                                    |                   |             |               |                 |
| PLAN 289 OF 316                                   |                   |             |               |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHECKED<br>SK | APPROVED<br>MES |
| DRAWING NO.                                       | REV.              |             |               |                 |

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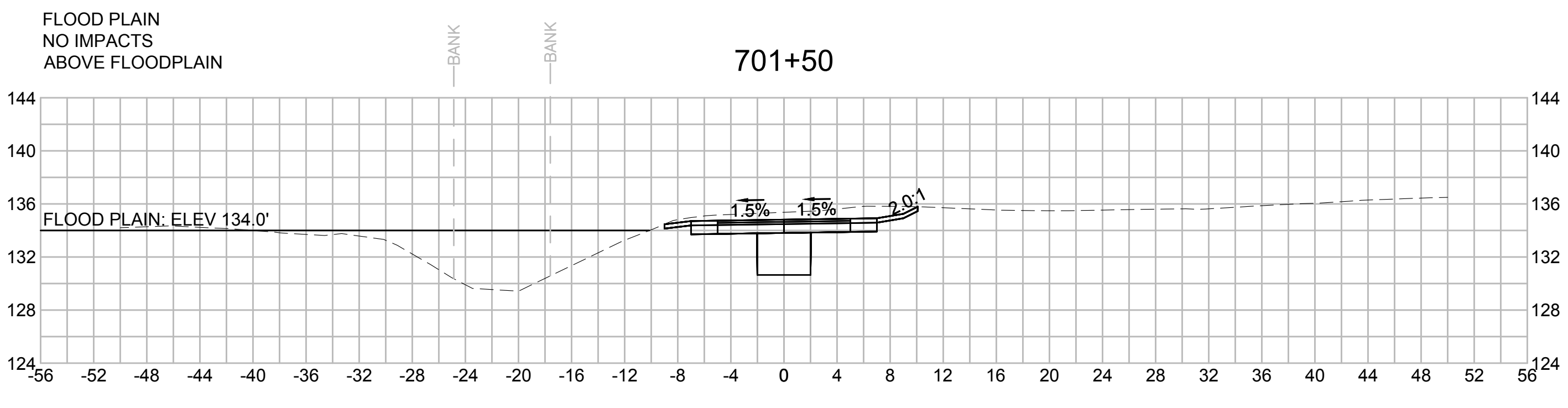
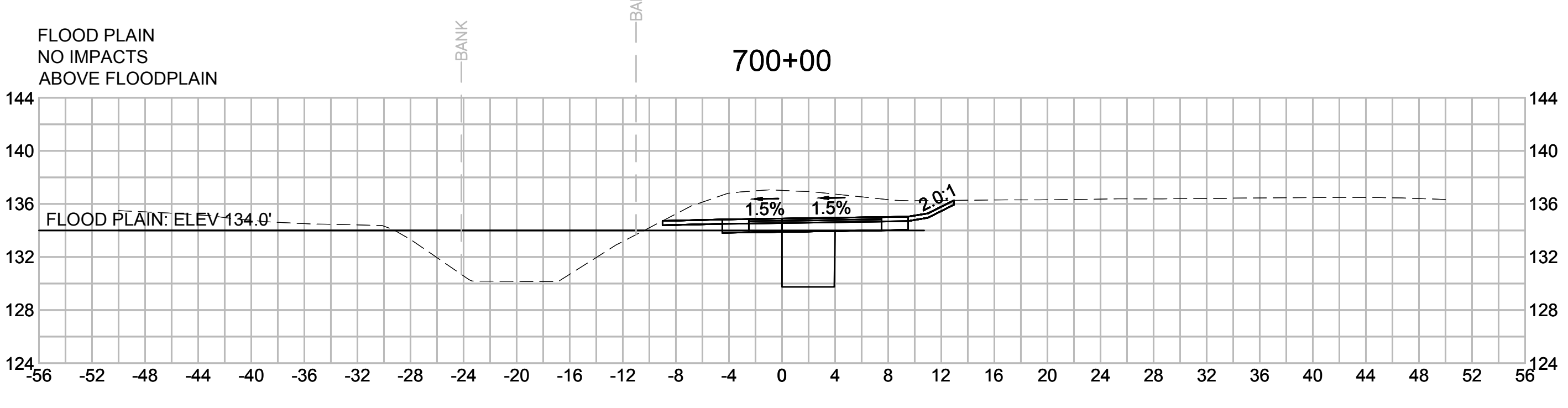
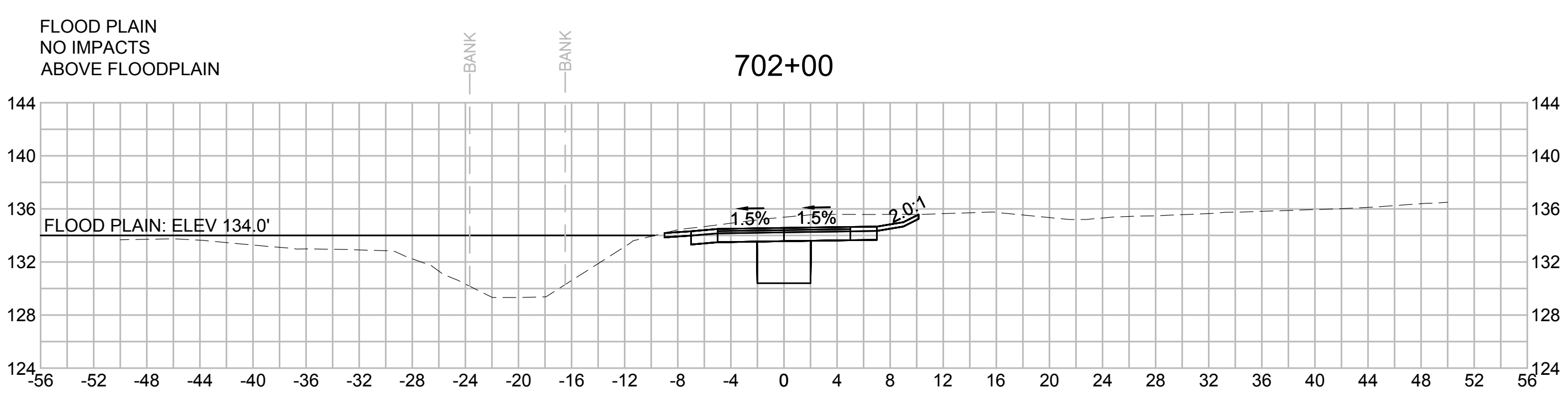
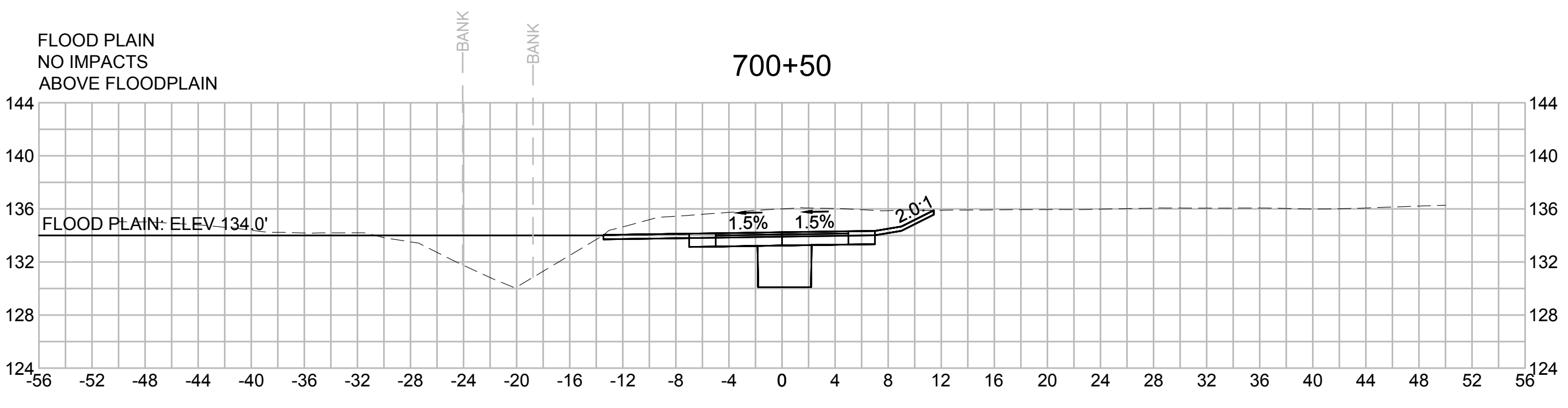
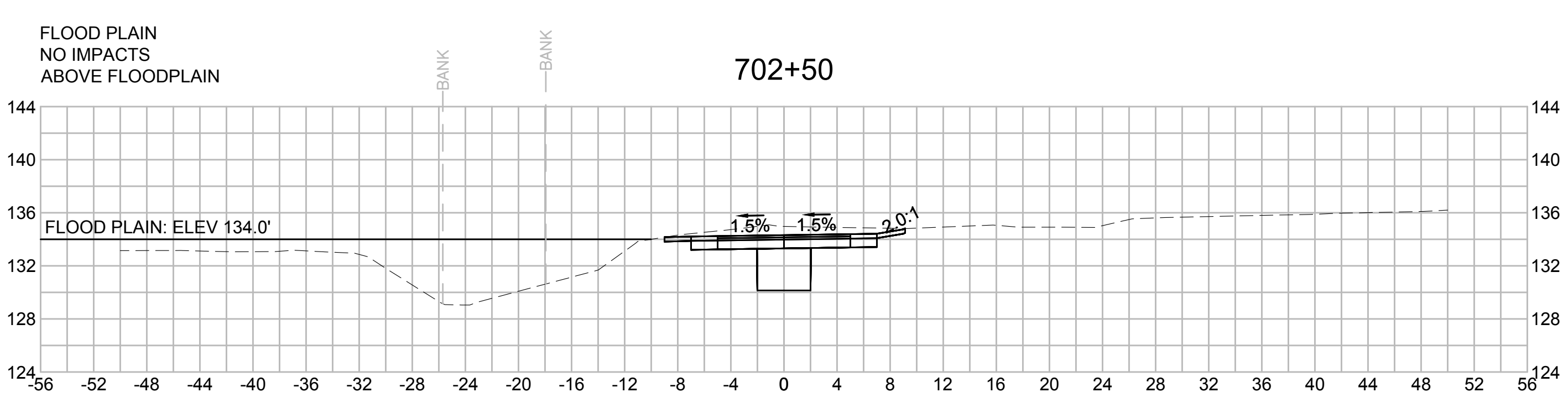
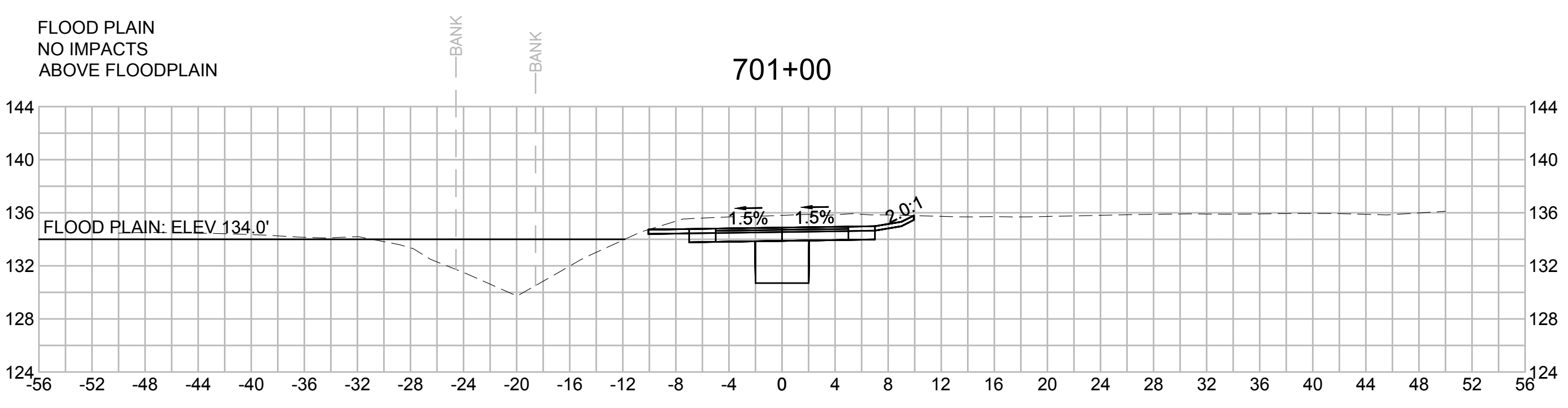
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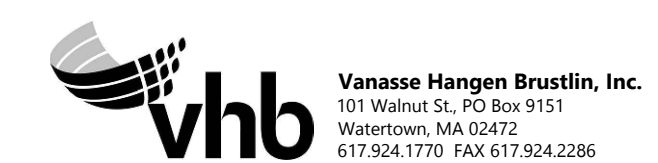
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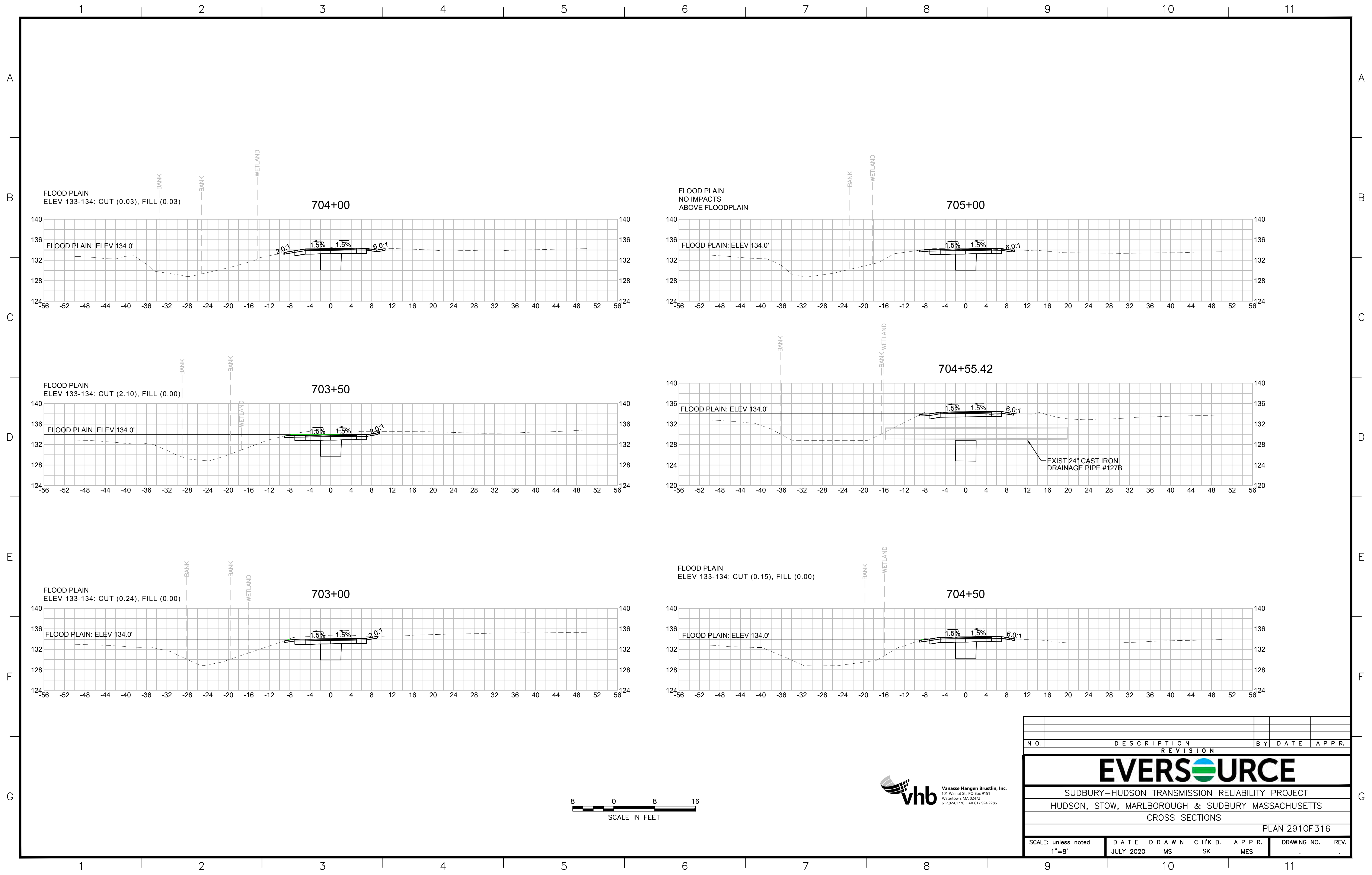


BLSF CROSSING STA 700 TO STA 740 - FEMA ZONE AE - TRIBUTARY TO HOP BROOK AND HOP BROOK  
FEMA ELEVATION VARIES

|                     |                     |
|---------------------|---------------------|
| FILL:               | CUT:                |
| 133'-134': 17.00 CY | 133'-134': 46.91 CY |
| 132'-133': 16.13 CY | 132'-133': 20.22 CY |
| 131'-132': 1.70 CY  | 131'-132': 5.50 CY  |
| 126'-127': 14.96 CY | 126'-127': 17.00 CY |
| 125'-126': 13.81 CY | 125'-126': 67.04 CY |
| 124'-125': 1.37 CY  | 124'-125': 6.11 CY  |
| 123'-124': 0.00 CY  | 123'-124': 0.43 CY  |



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| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
|   | REVISION          |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 2900F 316                                    |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |



| N O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
|---|-------------------|-------------|--------------|--------------|
| REVISION  |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 291 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       |                   |             |              | REV.         |

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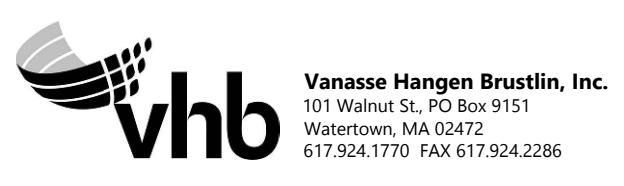
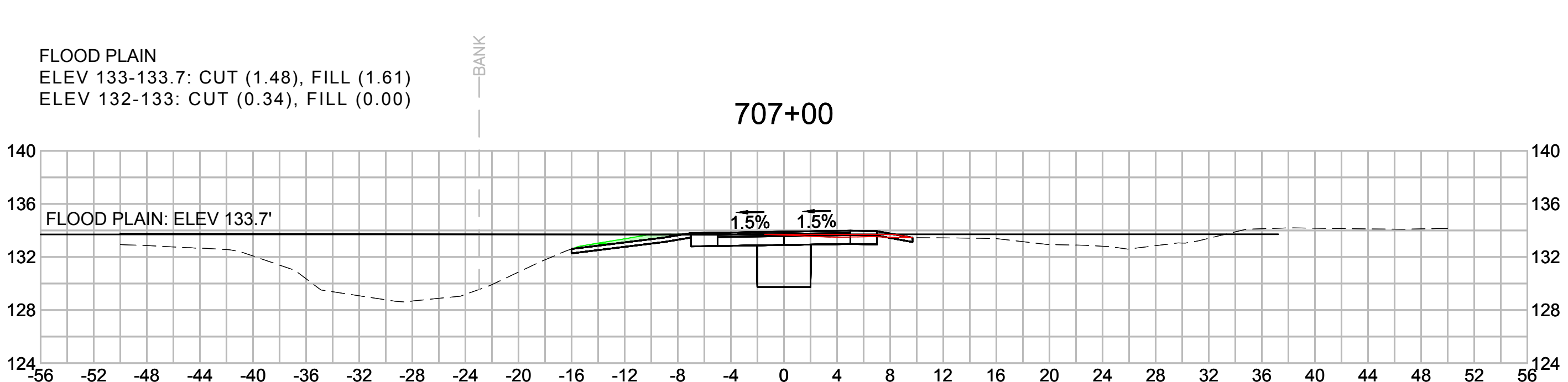
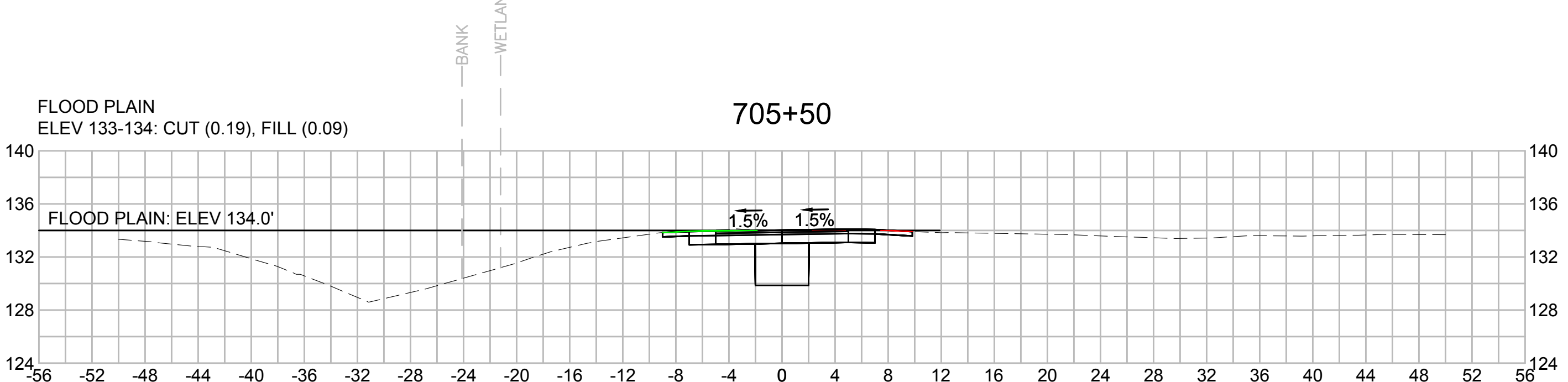
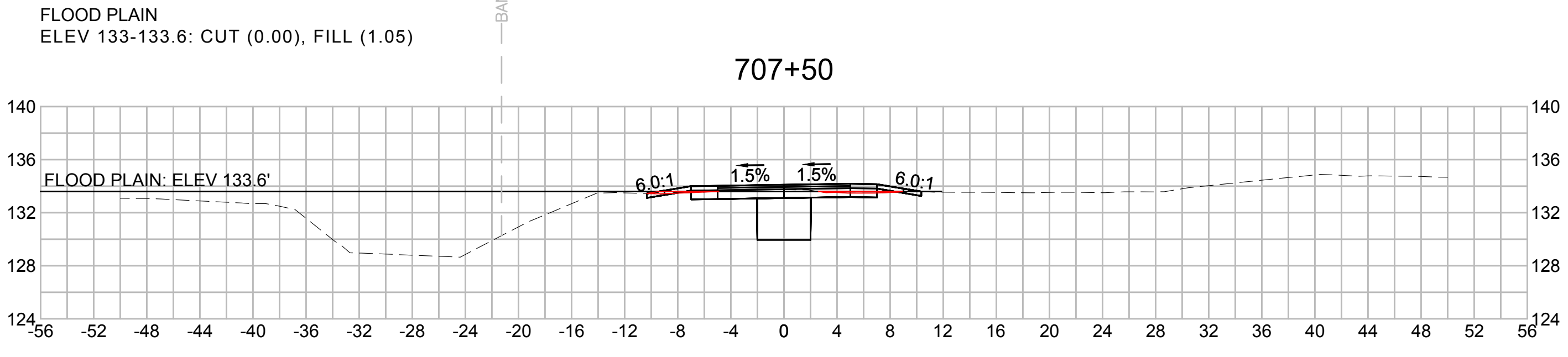
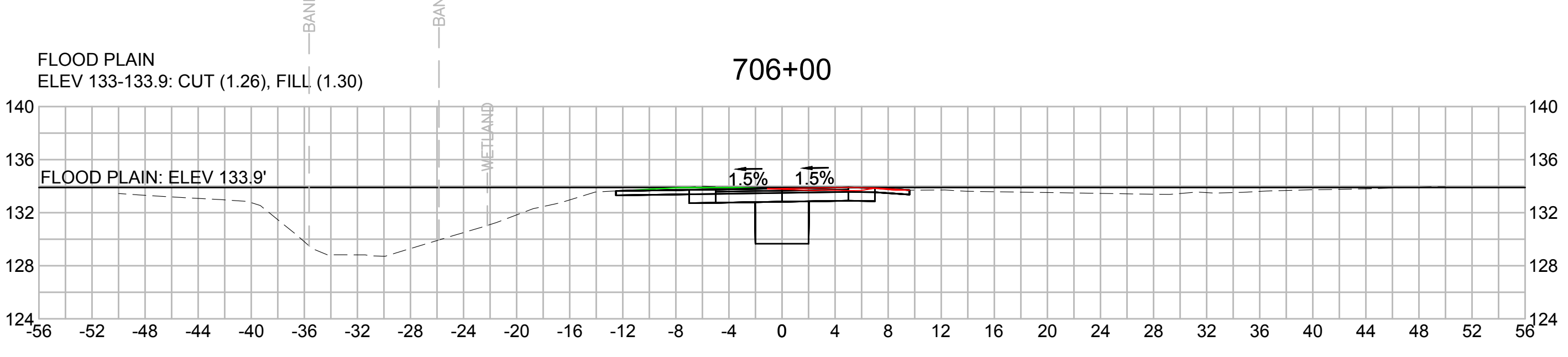
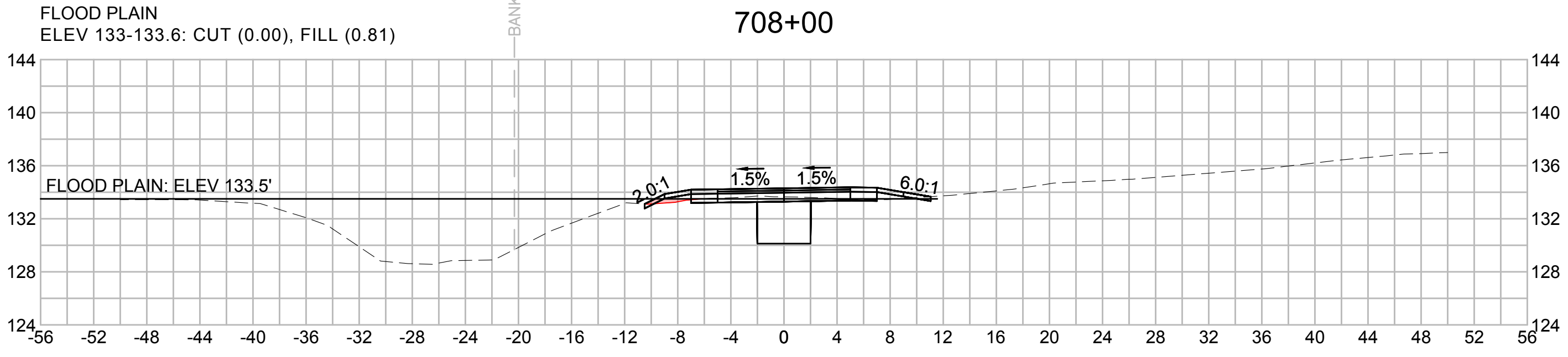
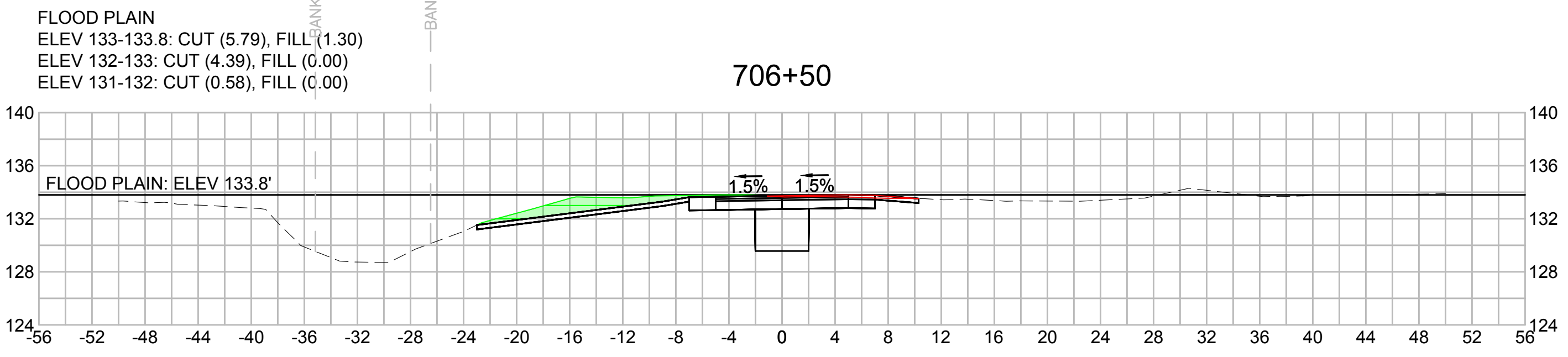
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 292 OF 316

|                              |                   |             |                |                 |                  |           |
|------------------------------|-------------------|-------------|----------------|-----------------|------------------|-----------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A P P R.<br>MES | DRAWING NO.<br>. | REV.<br>. |
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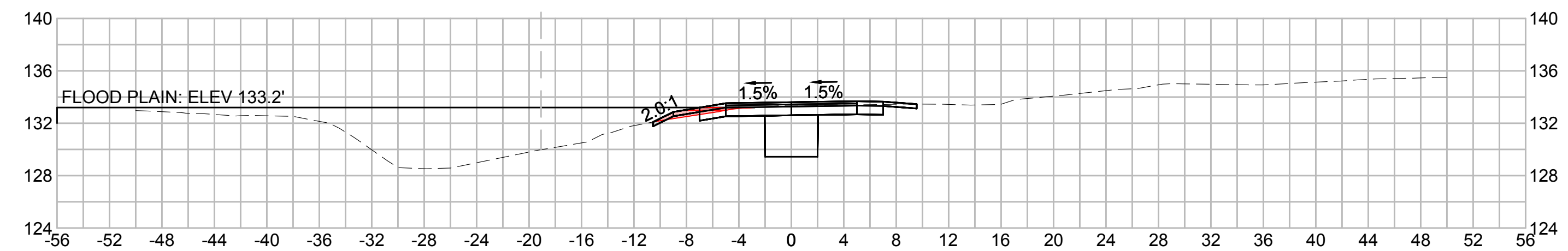
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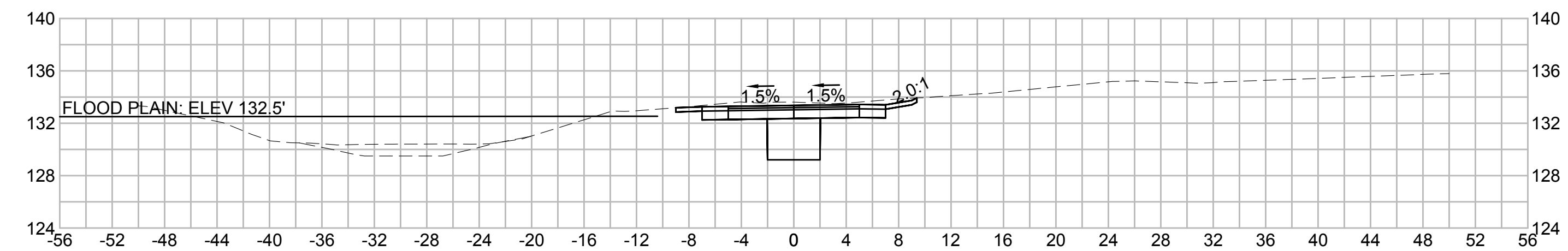
FLOOD PLAIN  
 ELEV 133-133.6: CUT (0.00), FILL (0.68)  
 ELEV 132-133: CUT (0.00), FILL (1.65)  
 ELEV 131-132: CUT (0.00), FILL (####)

709+50



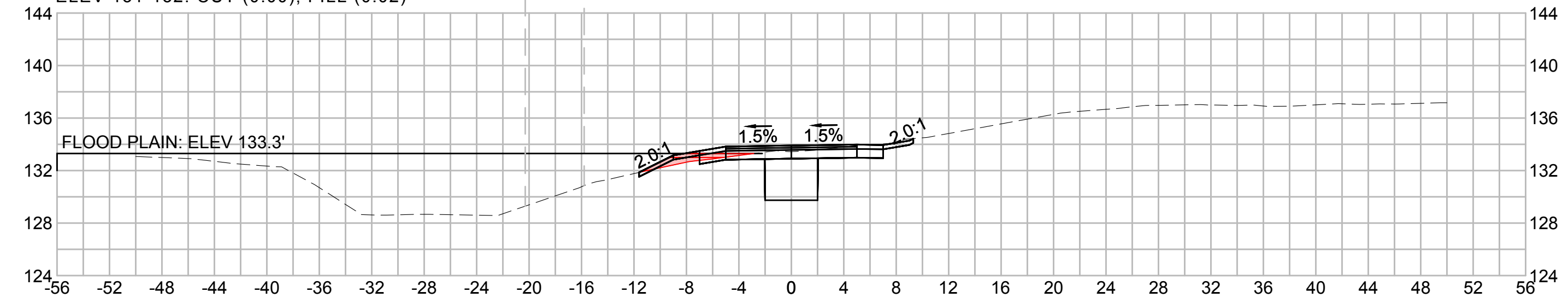
FLOOD PLAIN  
 NO IMPACTS  
 ABOVE FLOODPLAIN

710+75



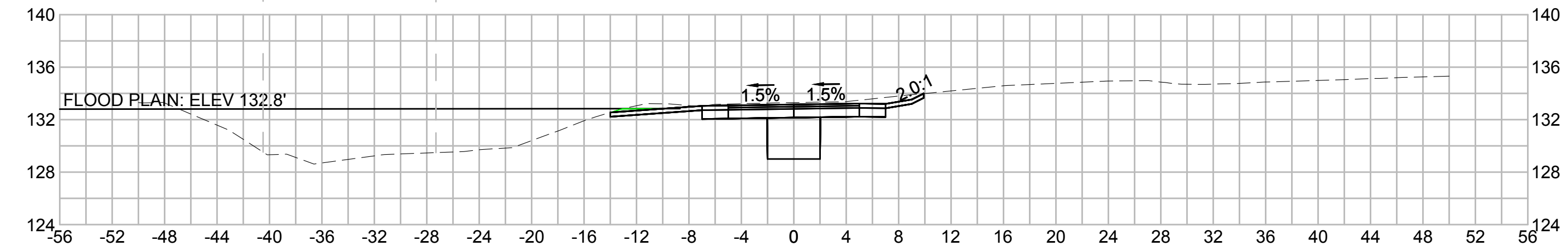
FLOOD PLAIN  
 ELEV 133-133.6: CUT (0.00), FILL (1.47)  
 ELEV 132-133: CUT (0.00), FILL (1.85)  
 ELEV 131-132: CUT (0.00), FILL (0.02)

709+00



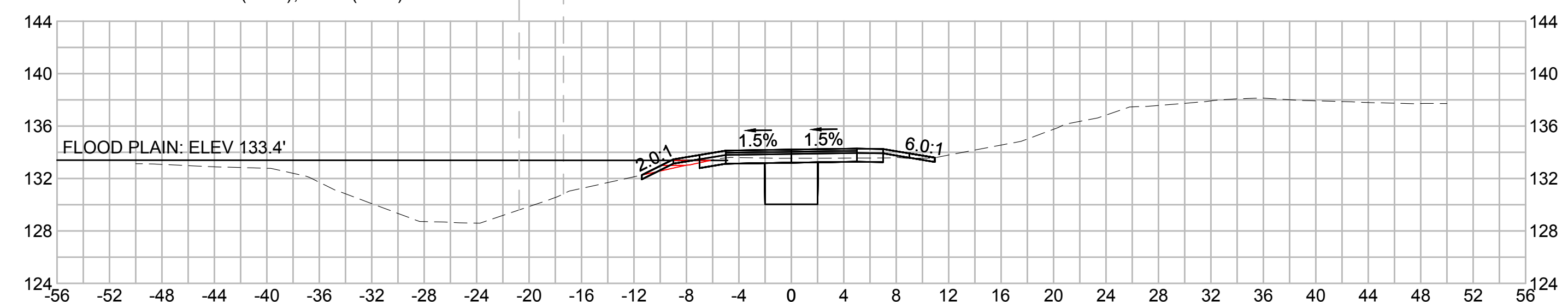
FLOOD PLAIN  
 ELEV 132-132.8: CUT (0.44), FILL (0.00)

710+50



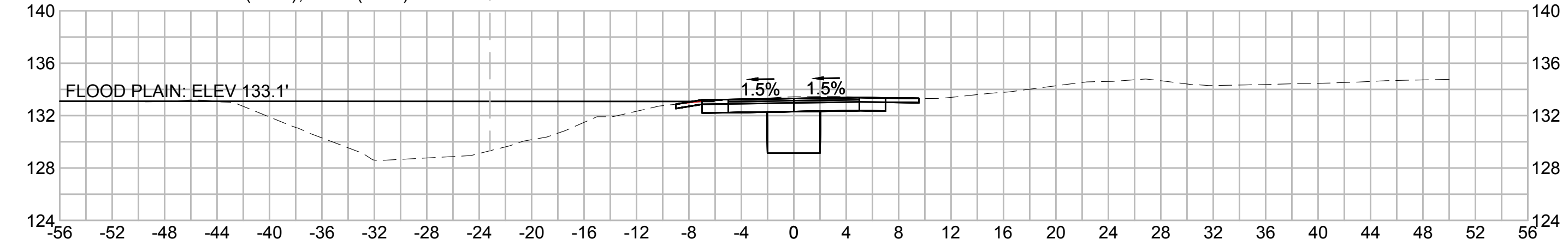
FLOOD PLAIN  
 ELEV 133-133.6: CUT (0.00), FILL (0.96)  
 ELEV 132-133: CUT (0.00), FILL (0.68)

708+50

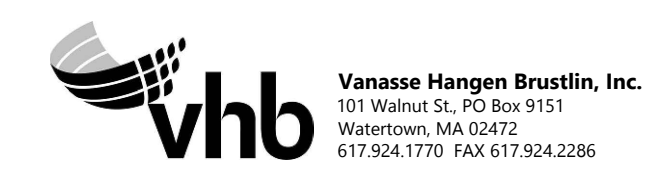
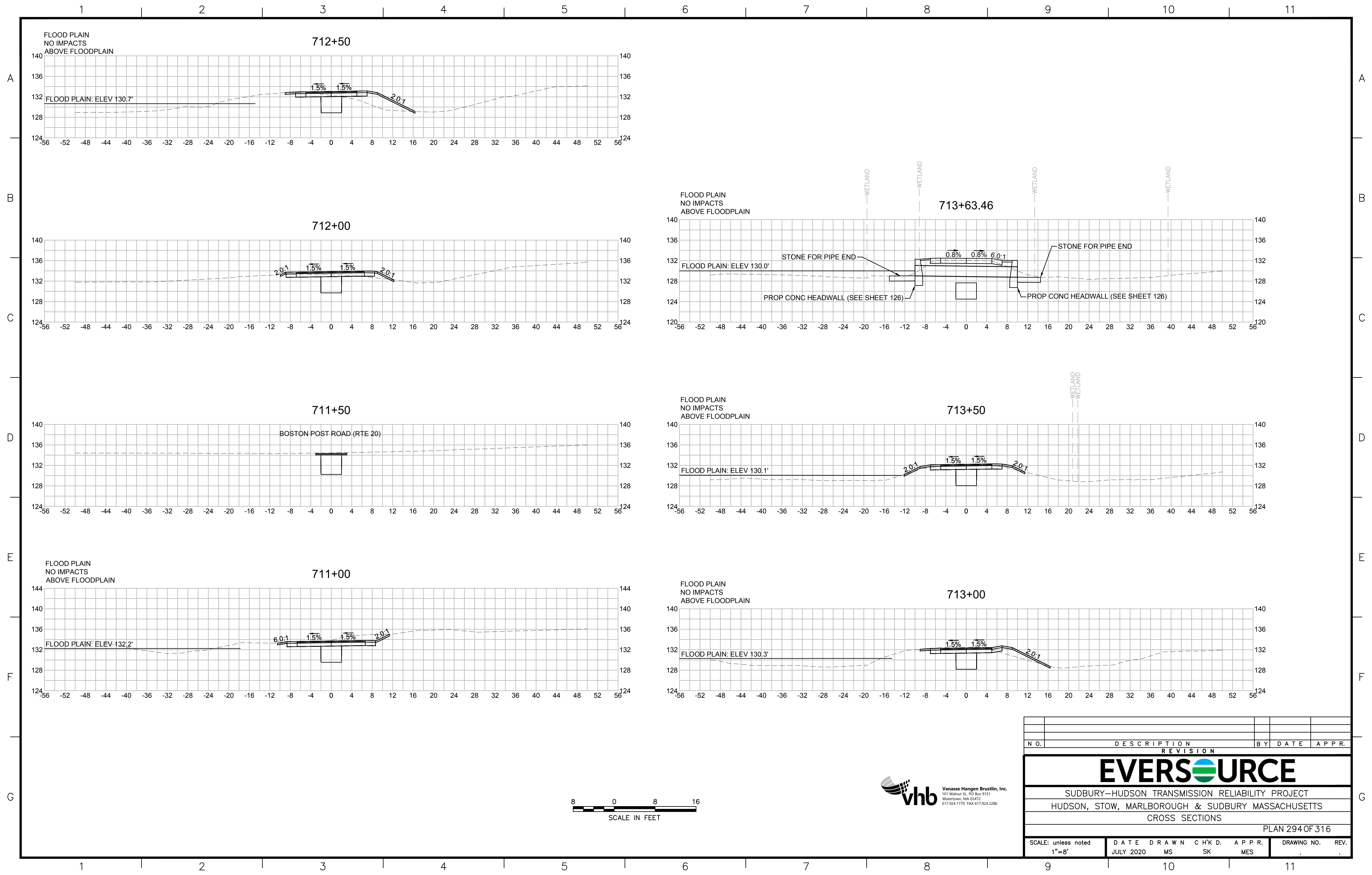


FLOOD PLAIN  
 ELEV 133-133.1: CUT (0.00), FILL (0.04)  
 ELEV 132-133: CUT (0.00), FILL (0.03)

710+00



| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
|---|-------------------|-------------|----------------|--------------|
| REVISION  |                   |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 293 OF 316                                   |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |



| NO.   |                   | DESCRIPTION | BY           | DATE         | APPR.            |
|---|-------------------|-------------|--------------|--------------|------------------|
| REVISION  |                   |             |              |              |                  |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |                  |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |                  |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |                  |
| CROSS SECTIONS                                    |                   |             |              |              |                  |
| PLAN 294 OF 316                                   |                   |             |              |              |                  |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. REV. |



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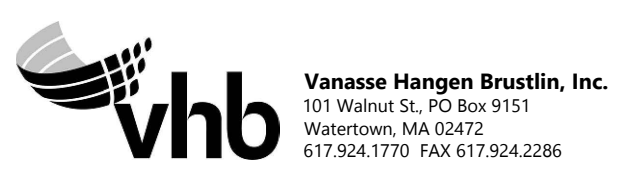
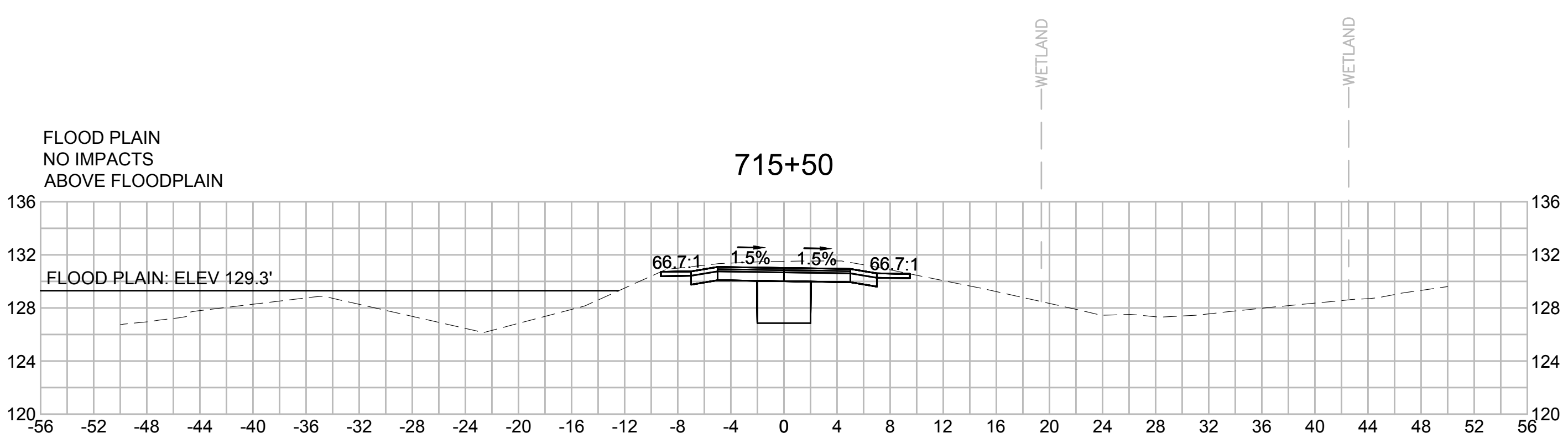
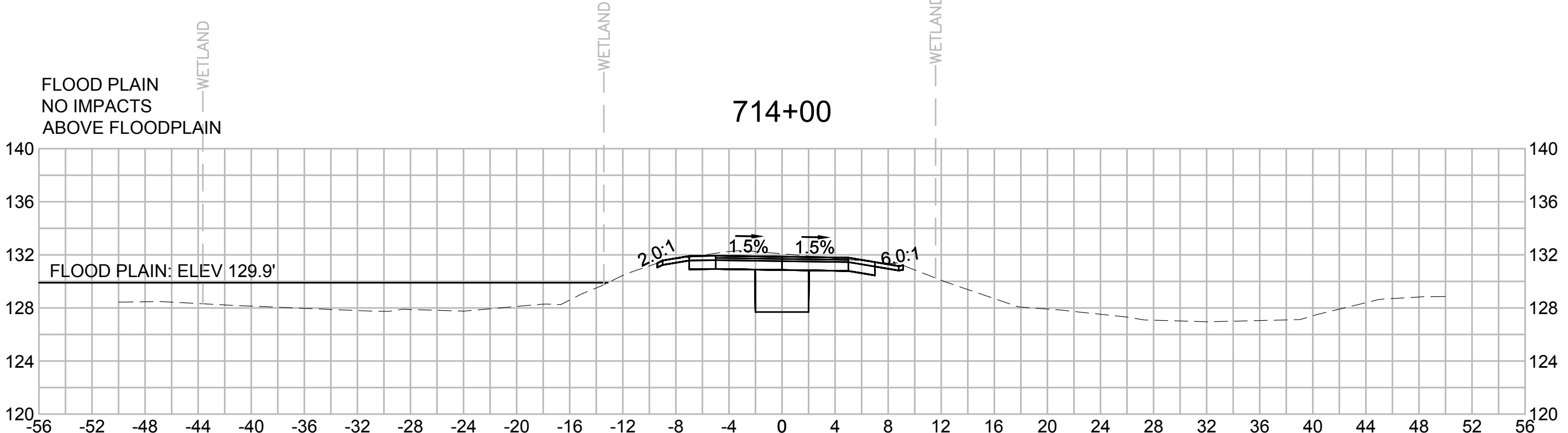
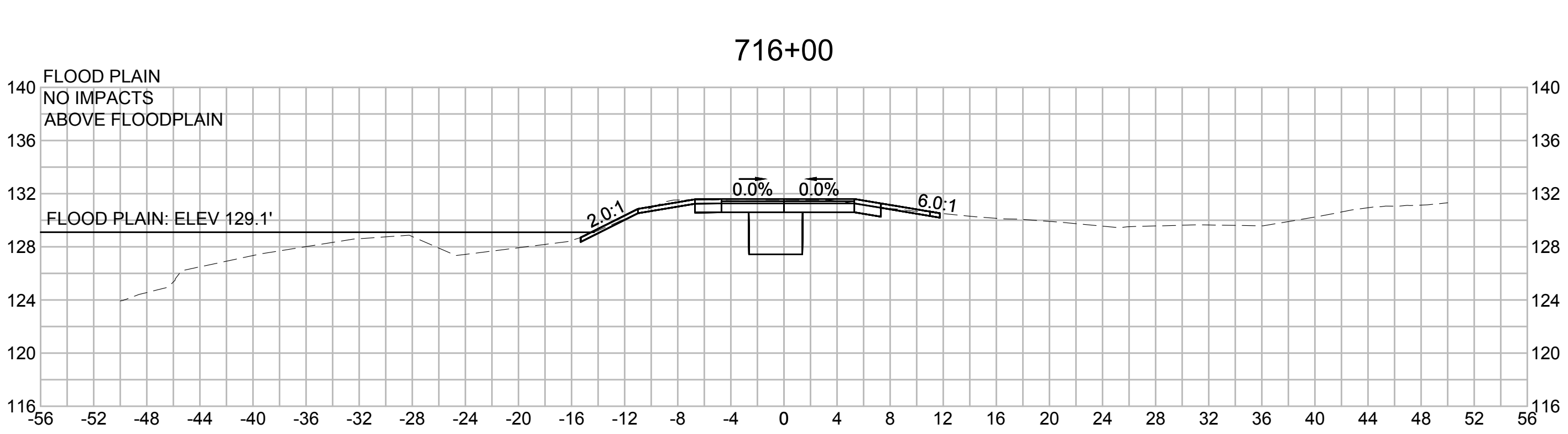
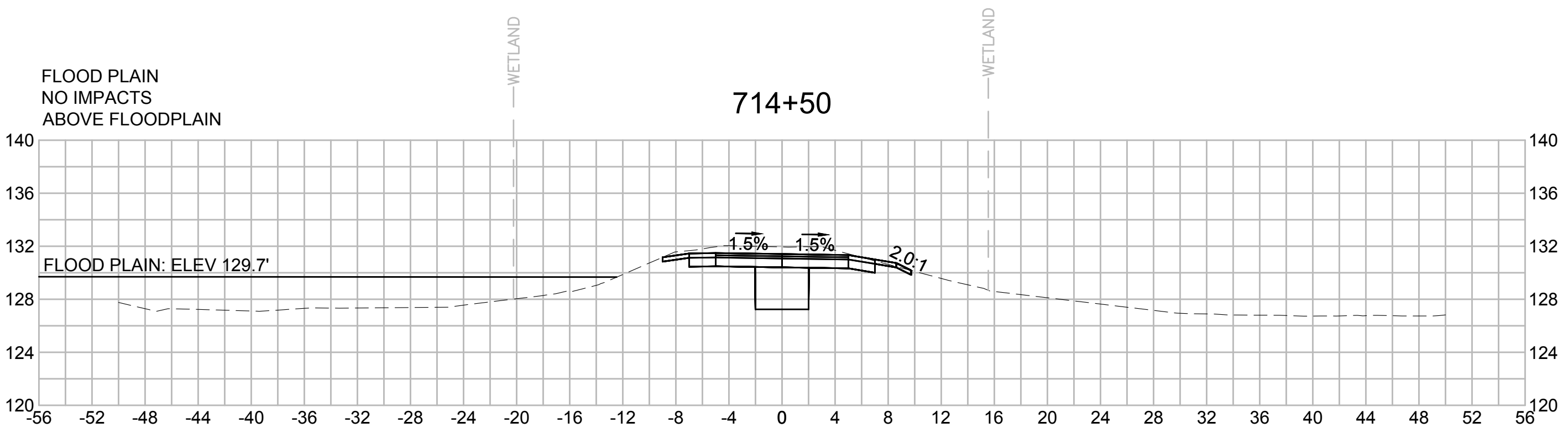
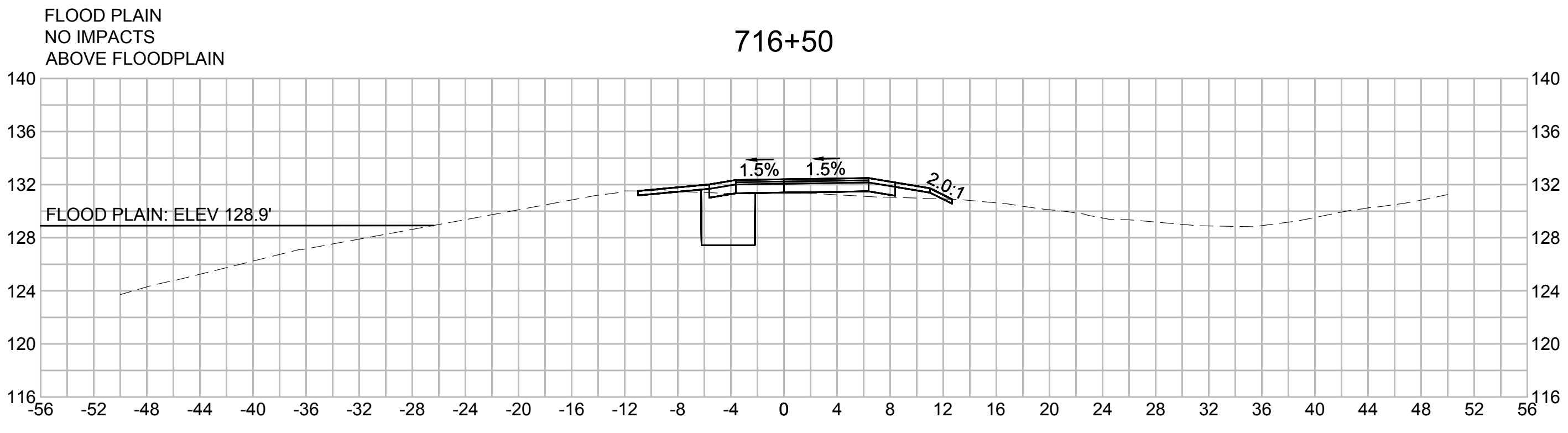
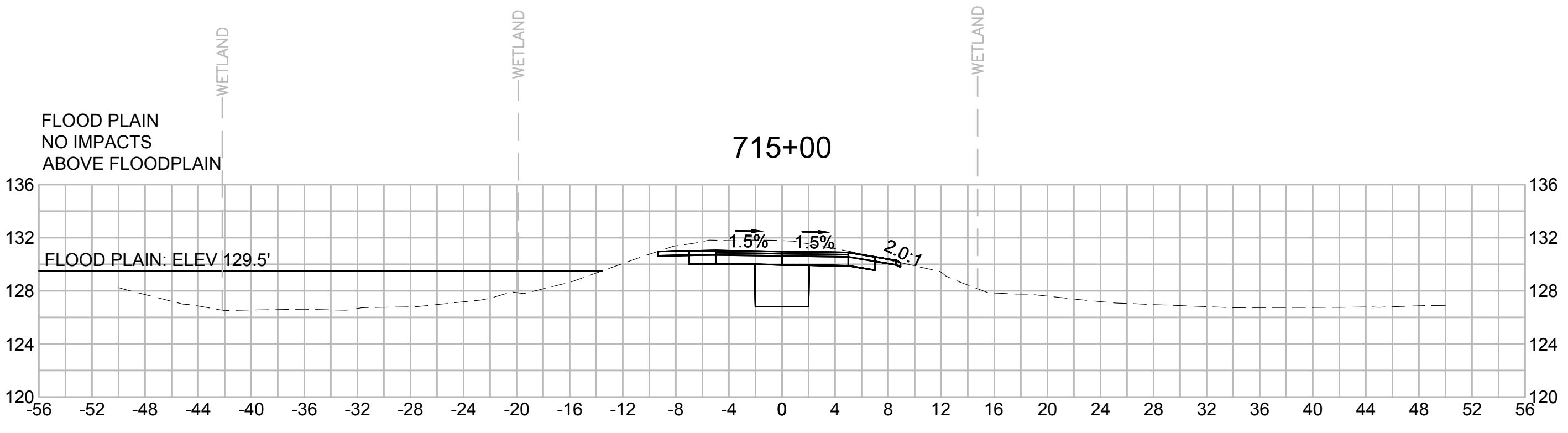
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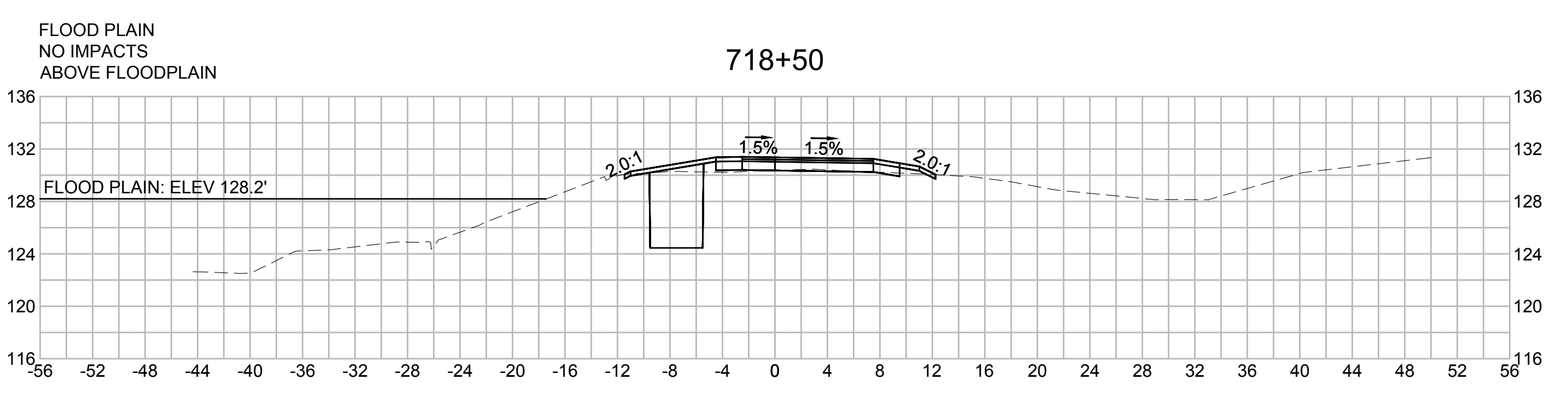
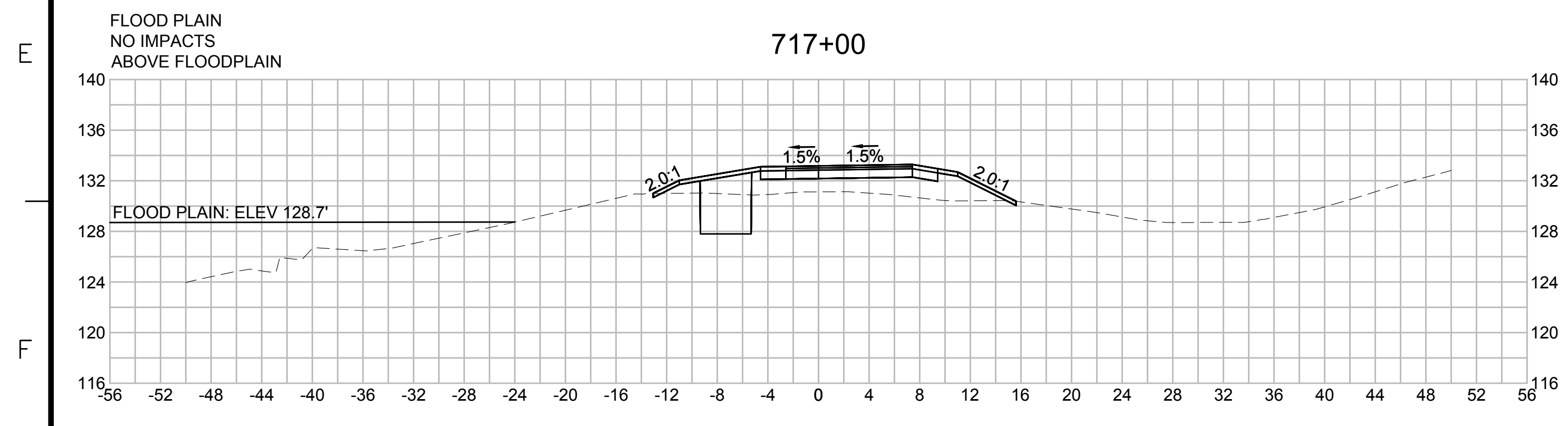
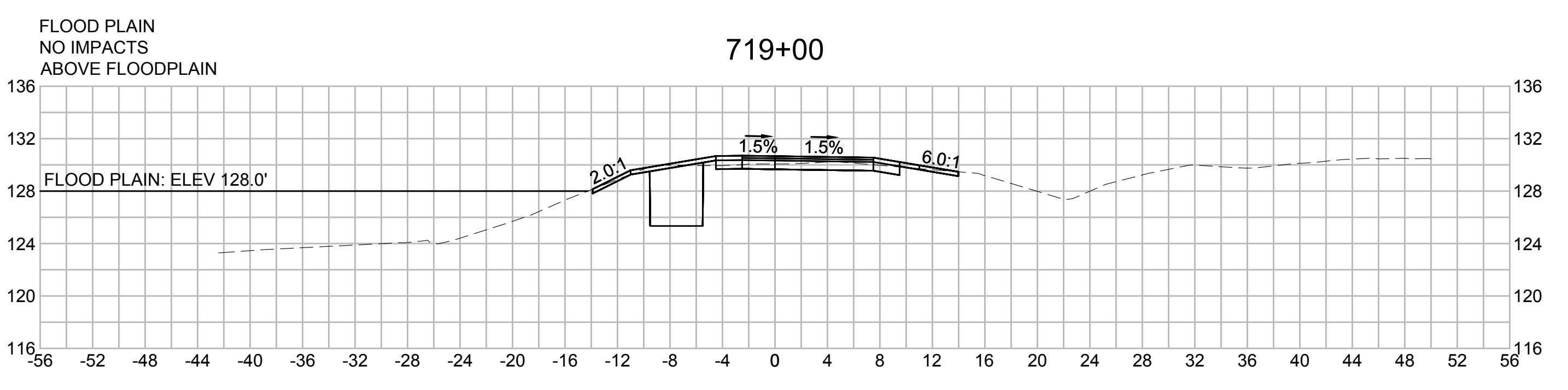
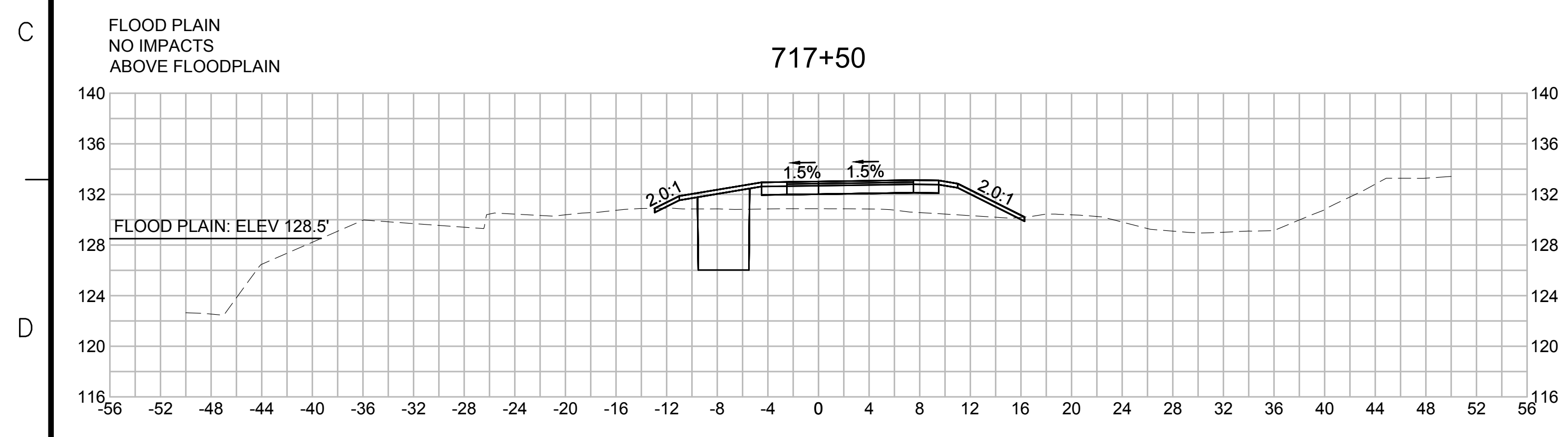
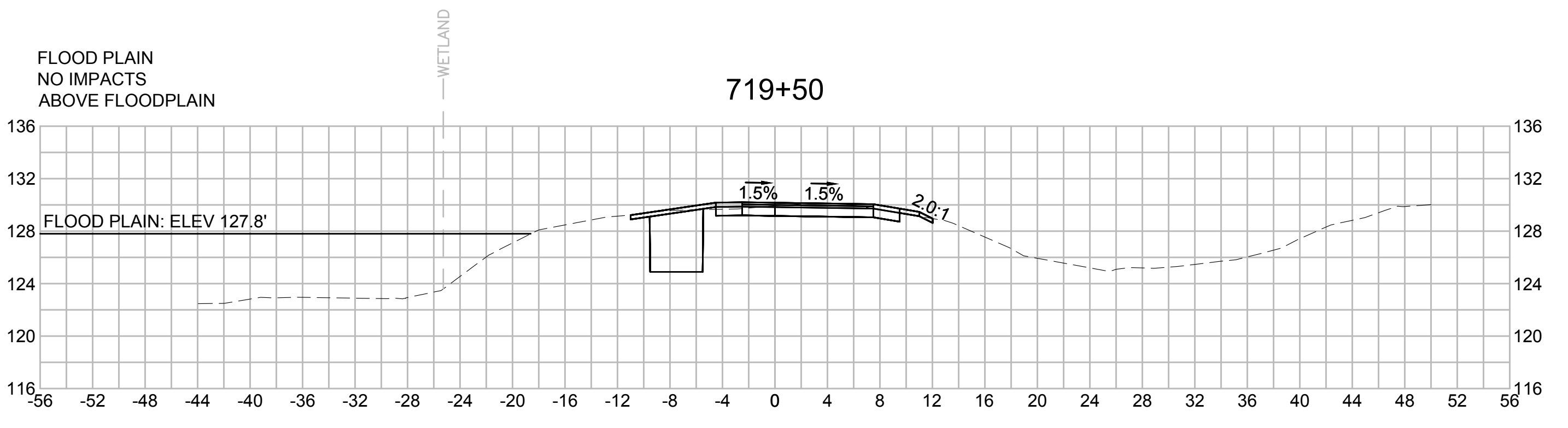
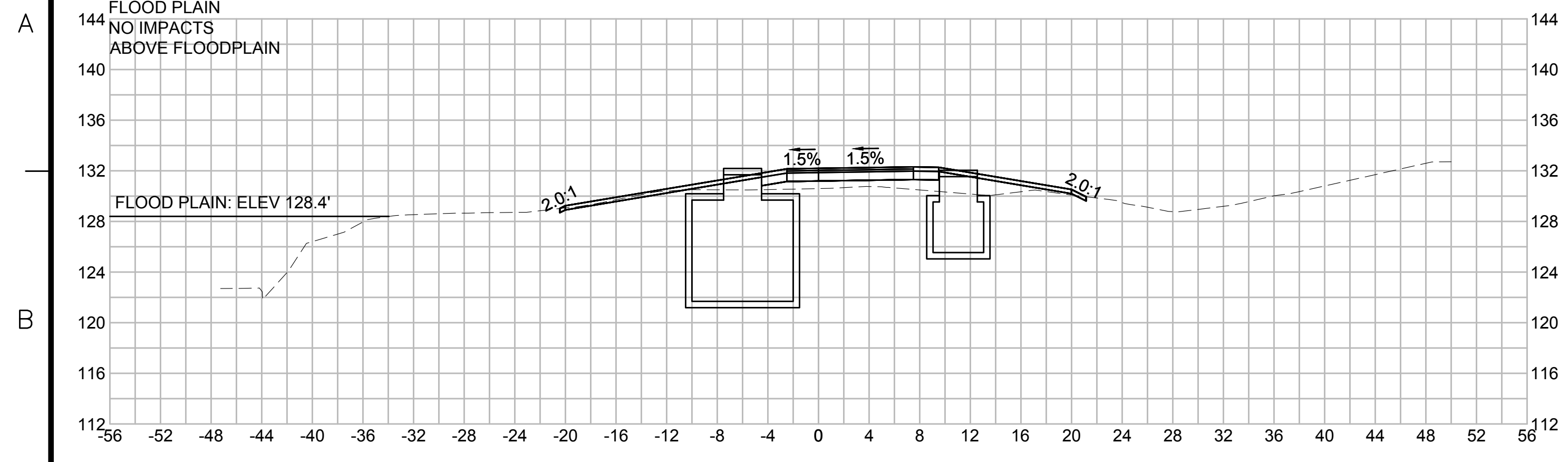
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| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
|---|-------------------|-------------|----------------|--------------|
| REVISION  |                   |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 295 OF 316                                   |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |

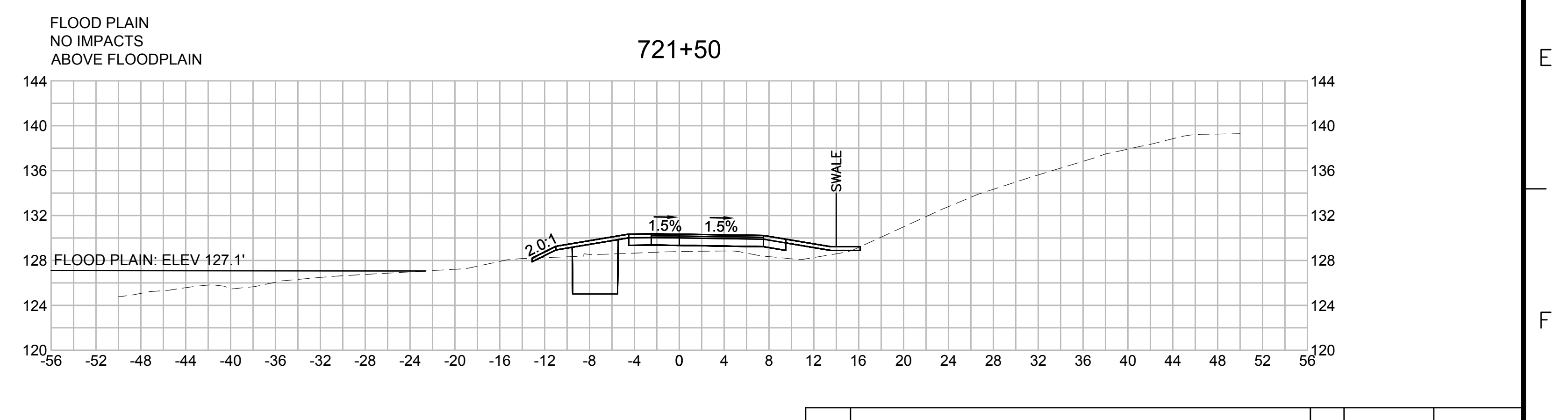
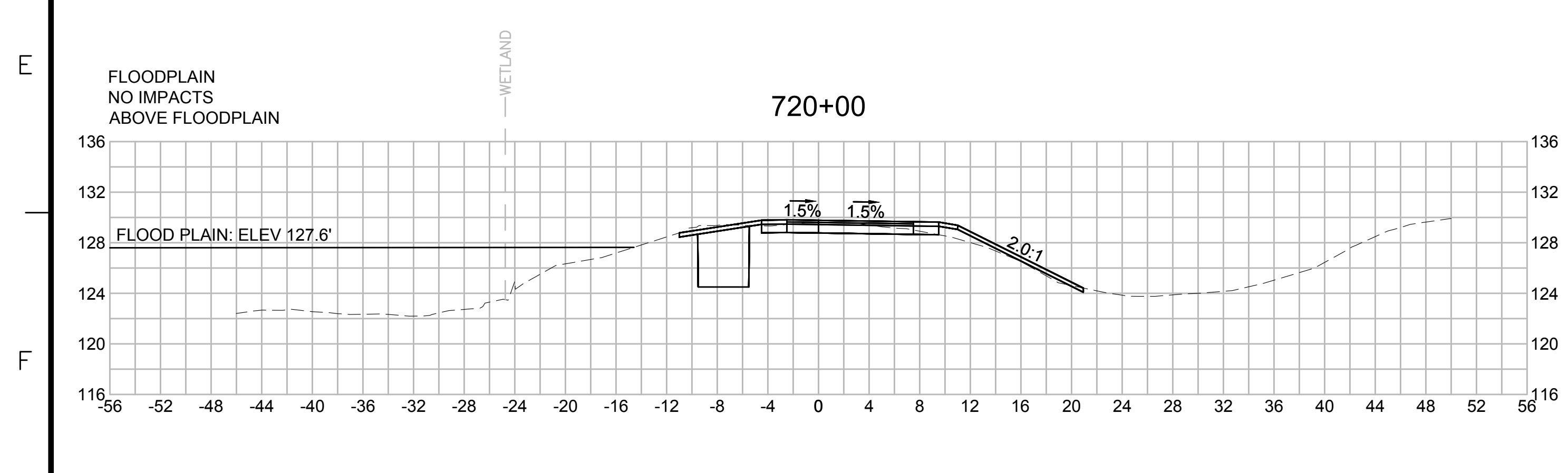
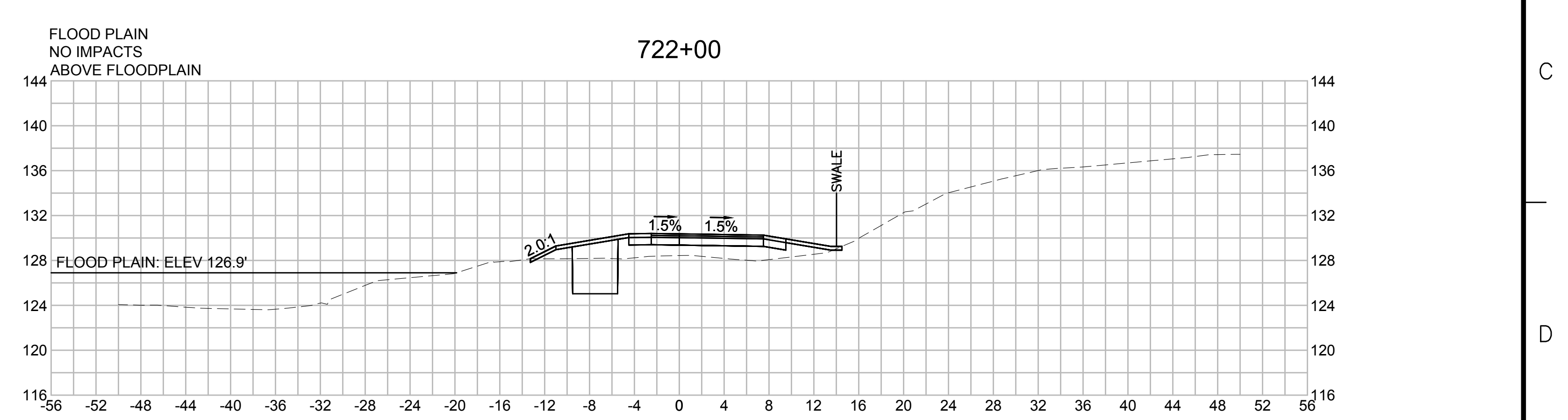
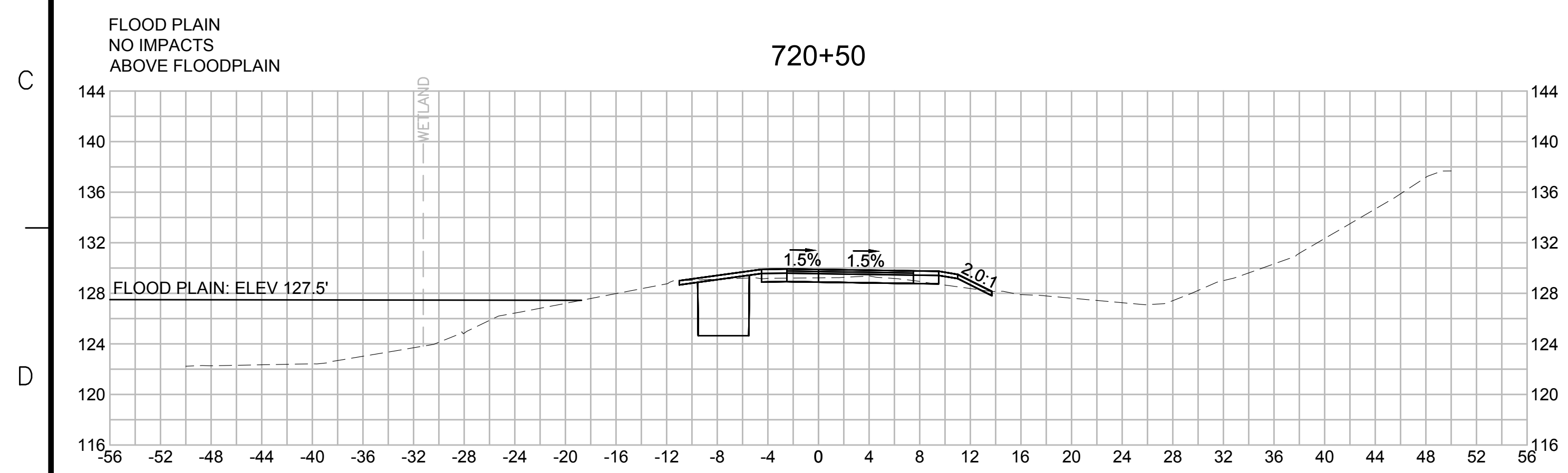
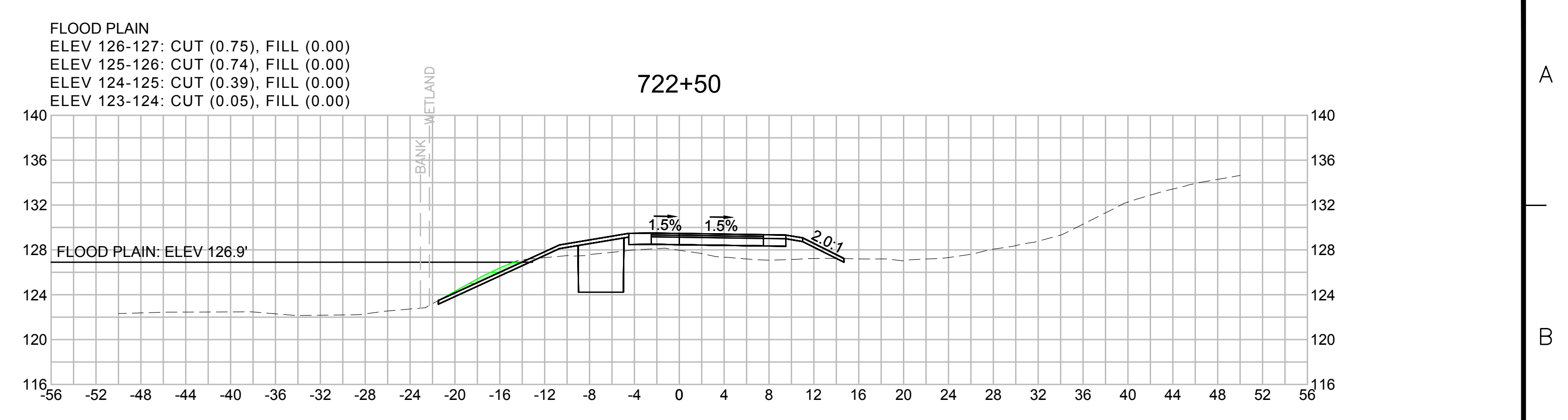
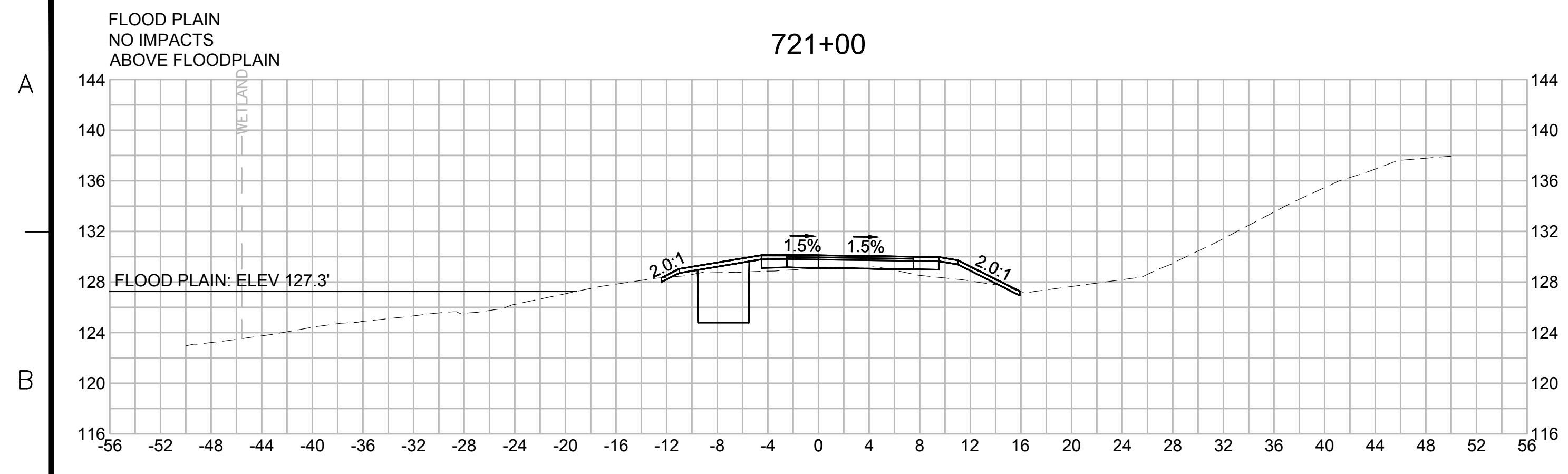
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1 2 3 4 5 6 7 8 9 10 11

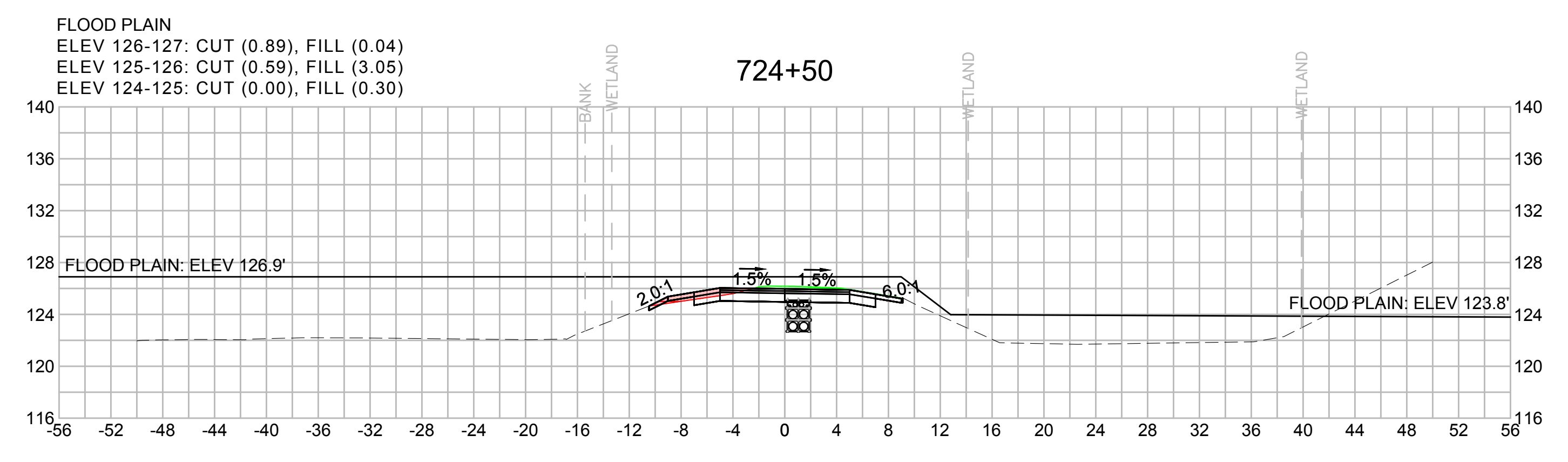
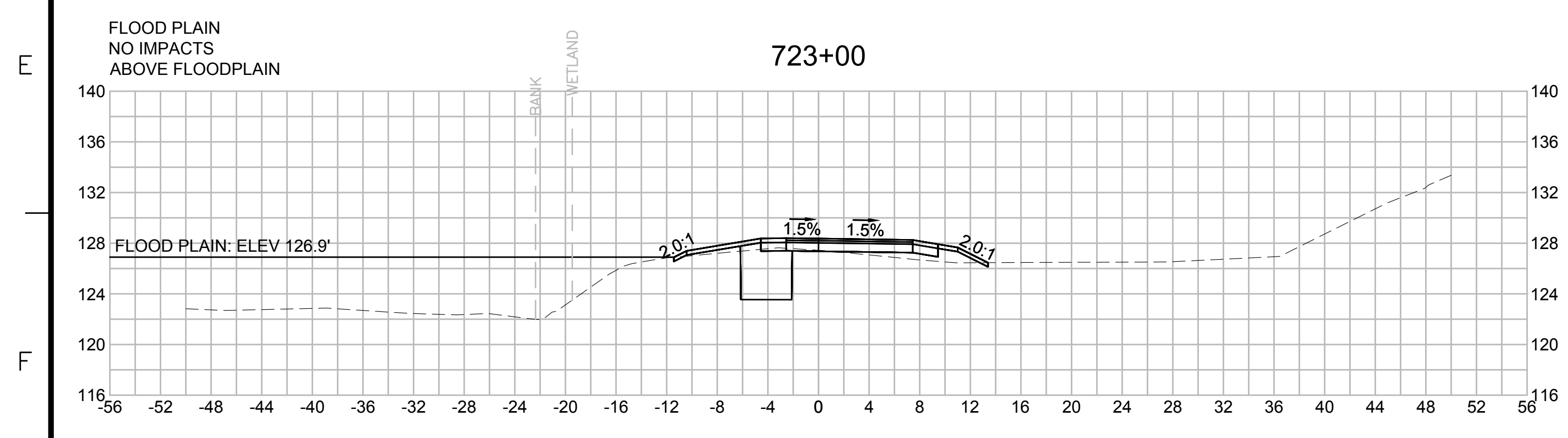
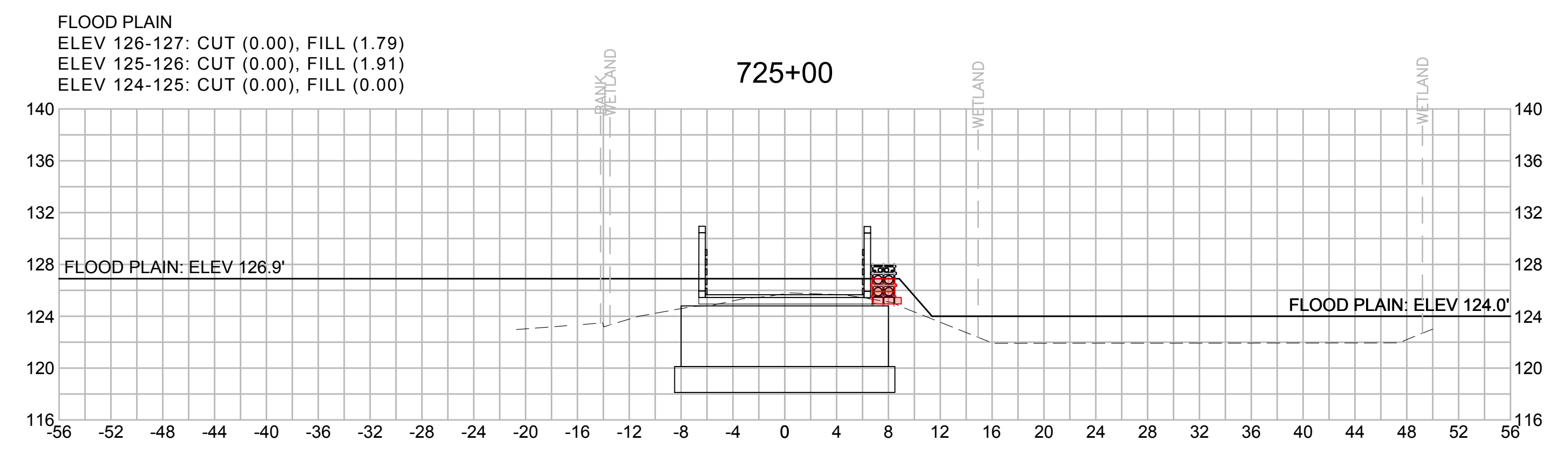
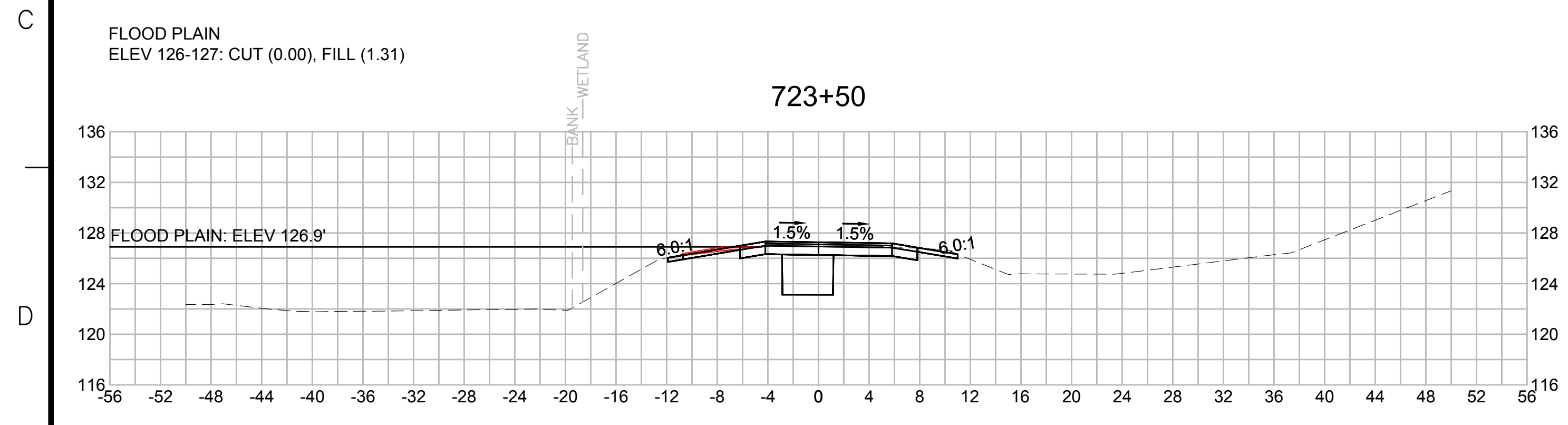
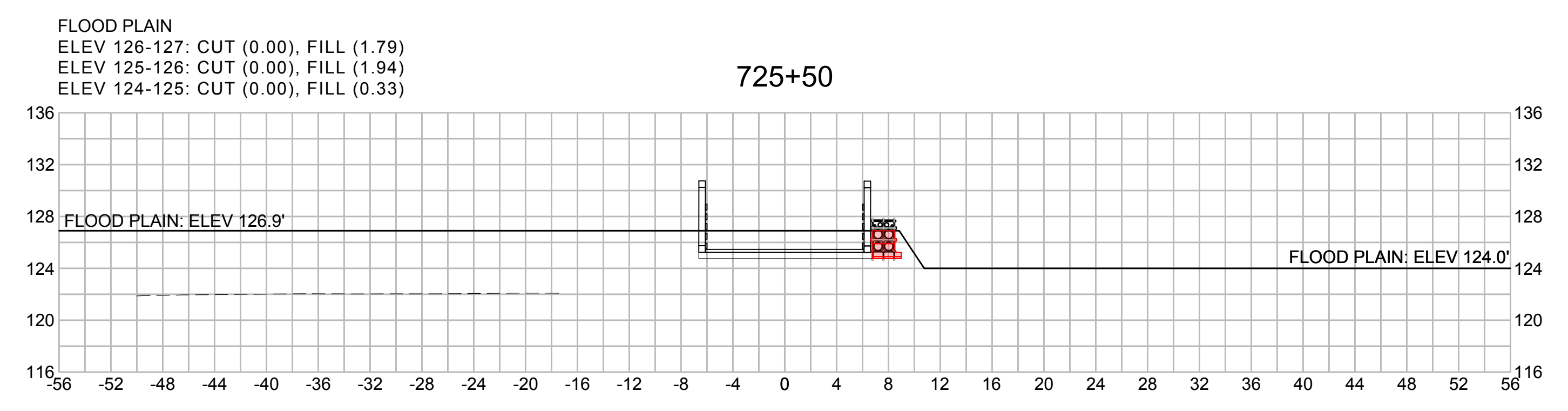
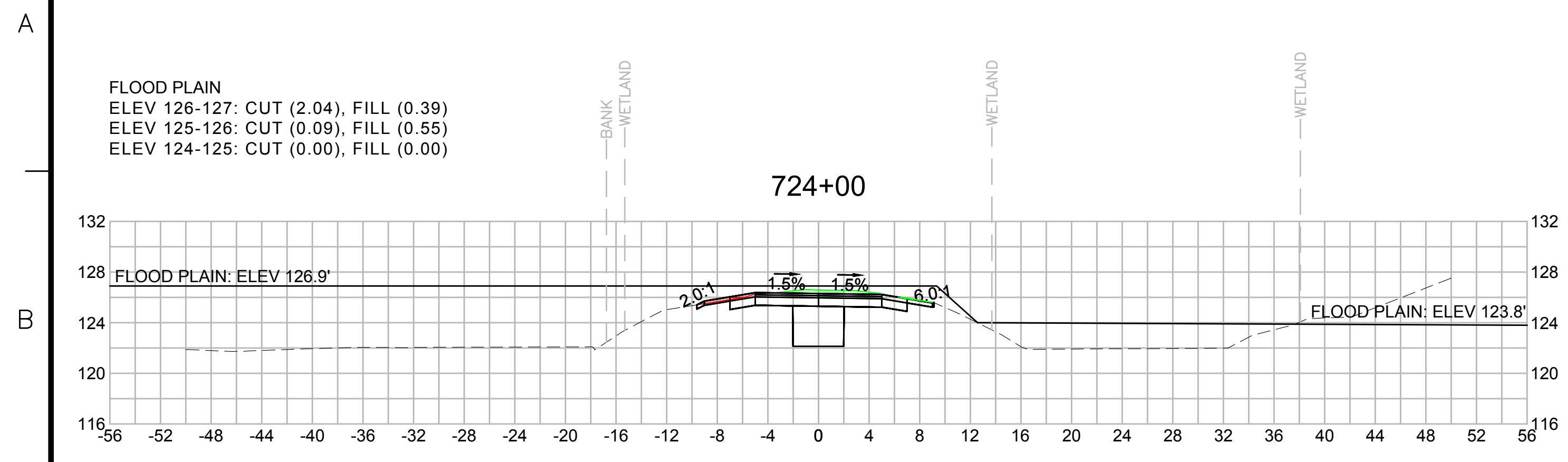


| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.           |
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| REVISION  |                   |             |                |                 |
| <b>EVERSOURCE</b>                                 |                   |             |                |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |                 |
| CROSS SECTIONS                                    |                   |             |                |                 |
| PLAN 296 OF 316                                   |                   |             |                |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A P P R.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |                 |

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| NO.   |                   | DESCRIPTION |              | BY           | DATE        | APPR. |
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| REVISION  |                   |             |              |              |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |             |       |
| CROSS SECTIONS                                    |                   |             |              |              |             |       |
| PLAN 297 OF 316                                   |                   |             |              |              |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV.  |



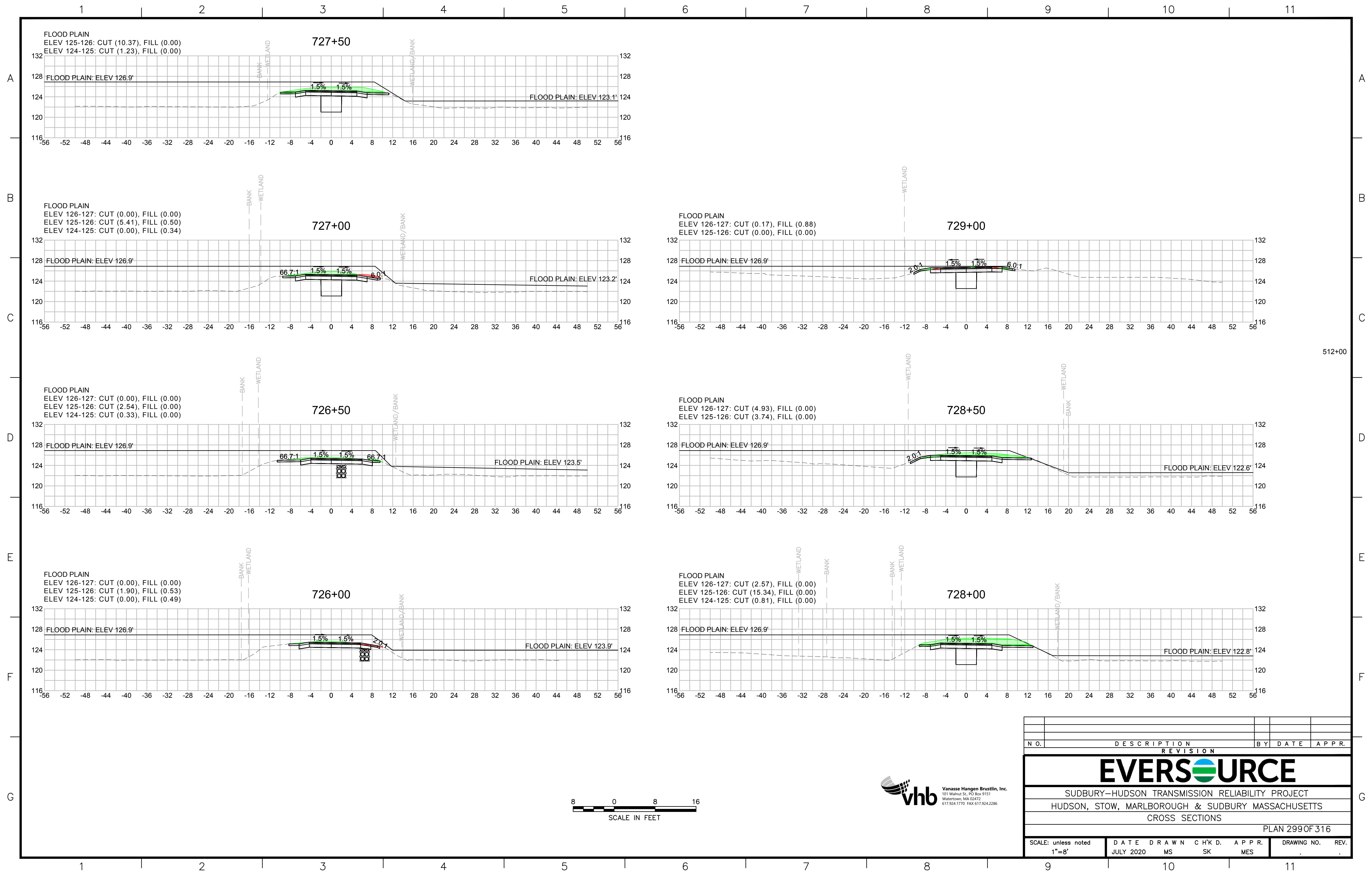
| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

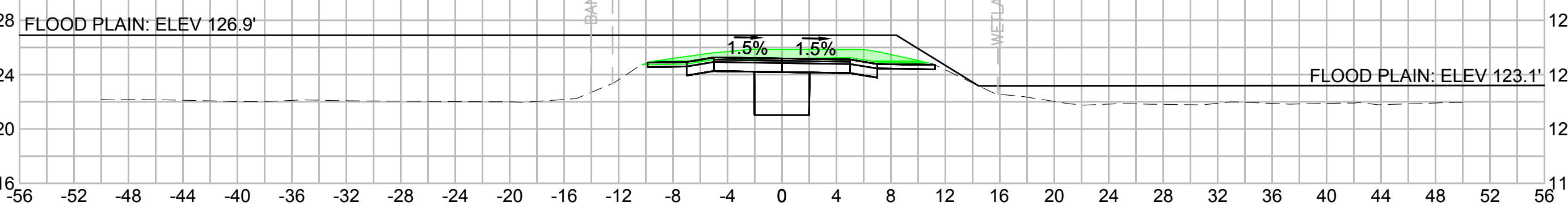
PLAN 298 OF 316

|                              |                   |             |              |              |             |      |
|------------------------------|-------------------|-------------|--------------|--------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV. |
|------------------------------|-------------------|-------------|--------------|--------------|-------------|------|



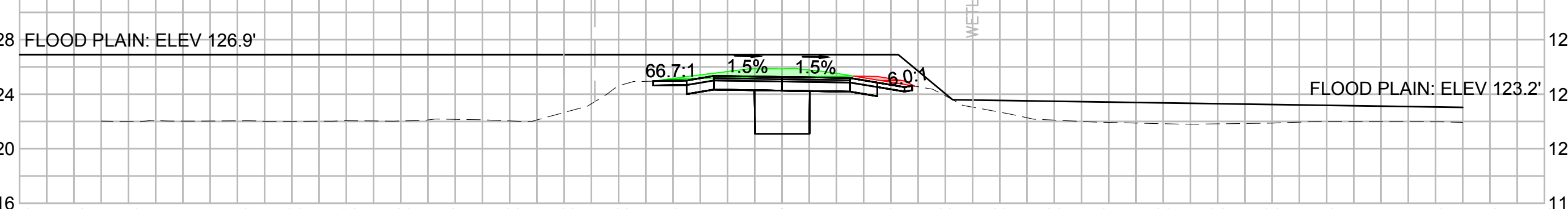
FLOOD PLAIN  
 ELEV 125-126: CUT (10.37), FILL (0.00)  
 ELEV 124-125: CUT (1.23), FILL (0.00)

727+50



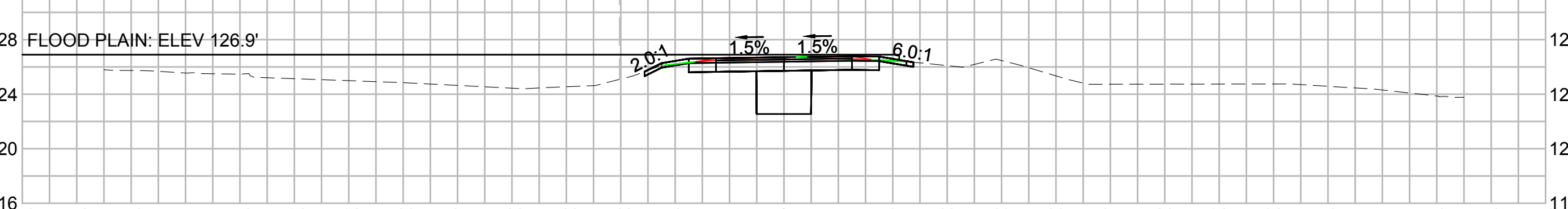
FLOOD PLAIN  
 ELEV 126-127: CUT (0.00), FILL (0.00)  
 ELEV 125-126: CUT (5.41), FILL (0.50)  
 ELEV 124-125: CUT (0.00), FILL (0.34)

727+00



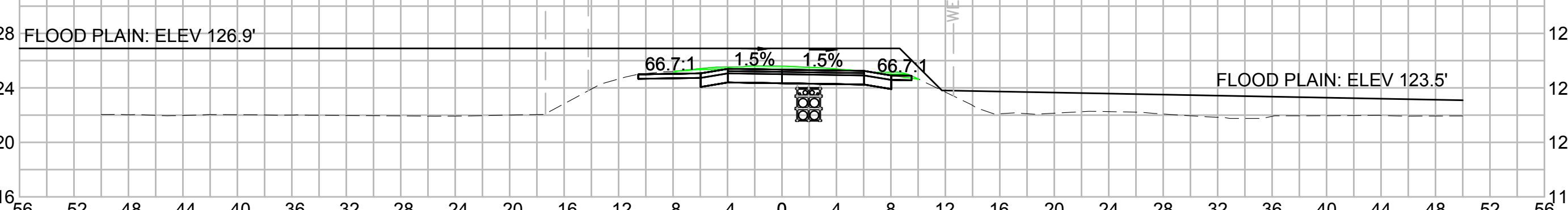
FLOOD PLAIN  
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 ELEV 125-126: CUT (0.00), FILL (0.00)

729+00



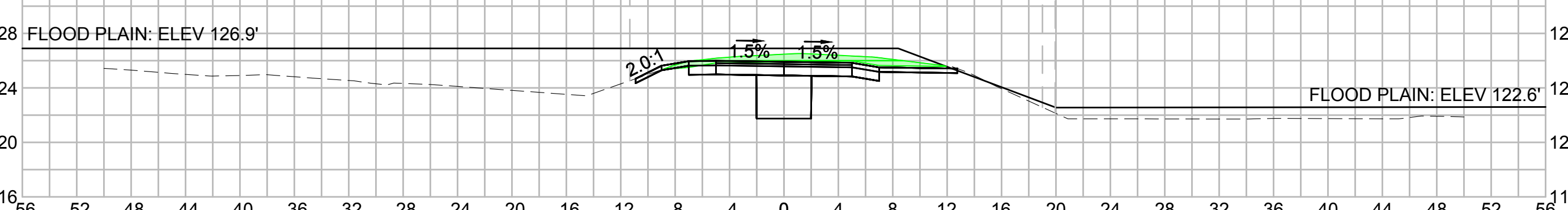
FLOOD PLAIN  
 ELEV 126-127: CUT (0.00), FILL (0.00)  
 ELEV 125-126: CUT (2.54), FILL (0.00)  
 ELEV 124-125: CUT (0.33), FILL (0.00)

726+50



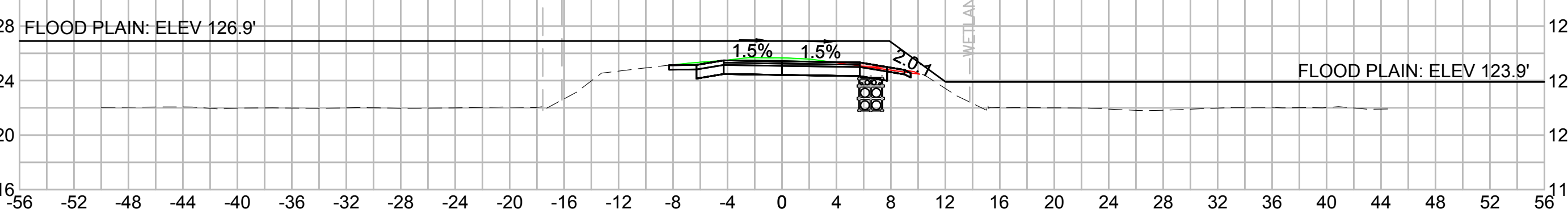
FLOOD PLAIN  
 ELEV 126-127: CUT (4.93), FILL (0.00)  
 ELEV 125-126: CUT (3.74), FILL (0.00)

728+50



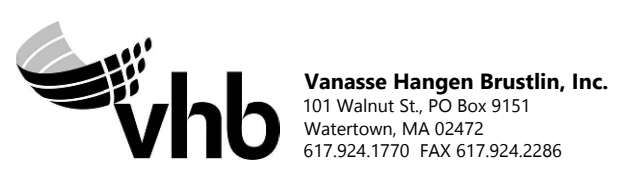
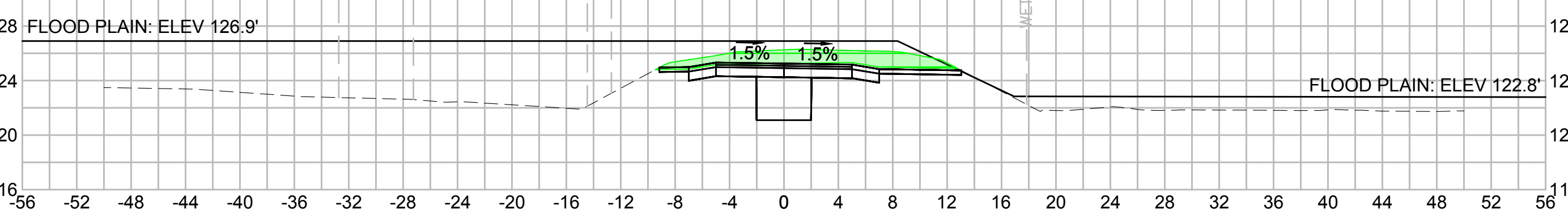
FLOOD PLAIN  
 ELEV 126-127: CUT (0.00), FILL (0.00)  
 ELEV 125-126: CUT (1.90), FILL (0.53)  
 ELEV 124-125: CUT (0.00), FILL (0.49)

726+00



FLOOD PLAIN  
 ELEV 126-127: CUT (2.57), FILL (0.00)  
 ELEV 125-126: CUT (15.34), FILL (0.00)  
 ELEV 124-125: CUT (0.81), FILL (0.00)

728+00



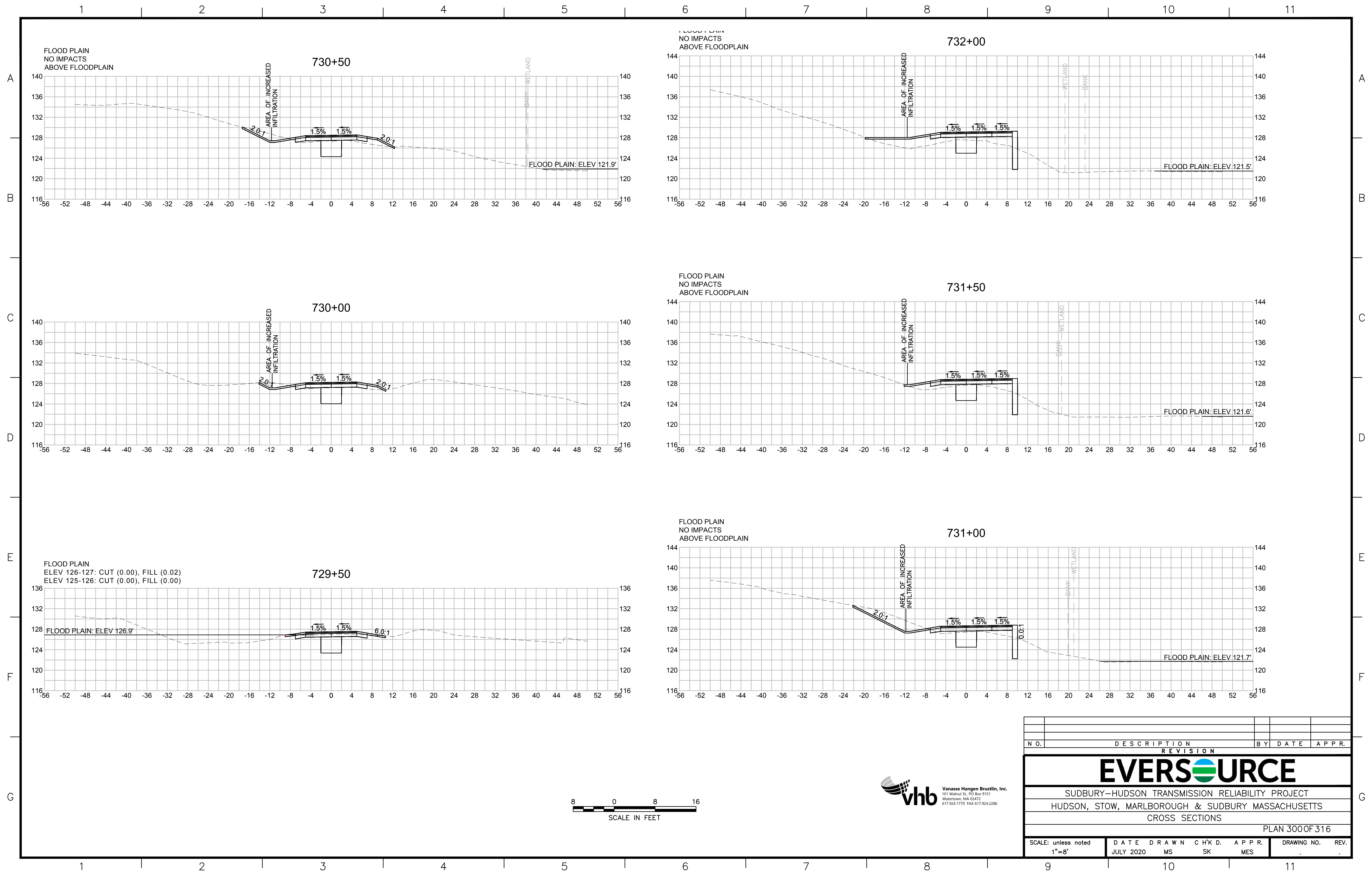
| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 299 OF 316

|                              |                   |             |                |                 |             |      |
|------------------------------|-------------------|-------------|----------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A.P.P.R.<br>MES | DRAWING NO. | REV. |
|------------------------------|-------------------|-------------|----------------|-----------------|-------------|------|



| NO.   |                   | DESCRIPTION |              | BY           | DATE        | APPR. |
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| REVISION  |                   |             |              |              |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |             |       |
| CROSS SECTIONS                                    |                   |             |              |              |             |       |
| PLAN 300 OF 316                                   |                   |             |              |              |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV.  |

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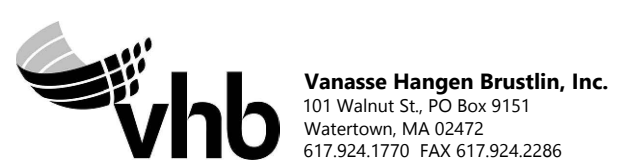
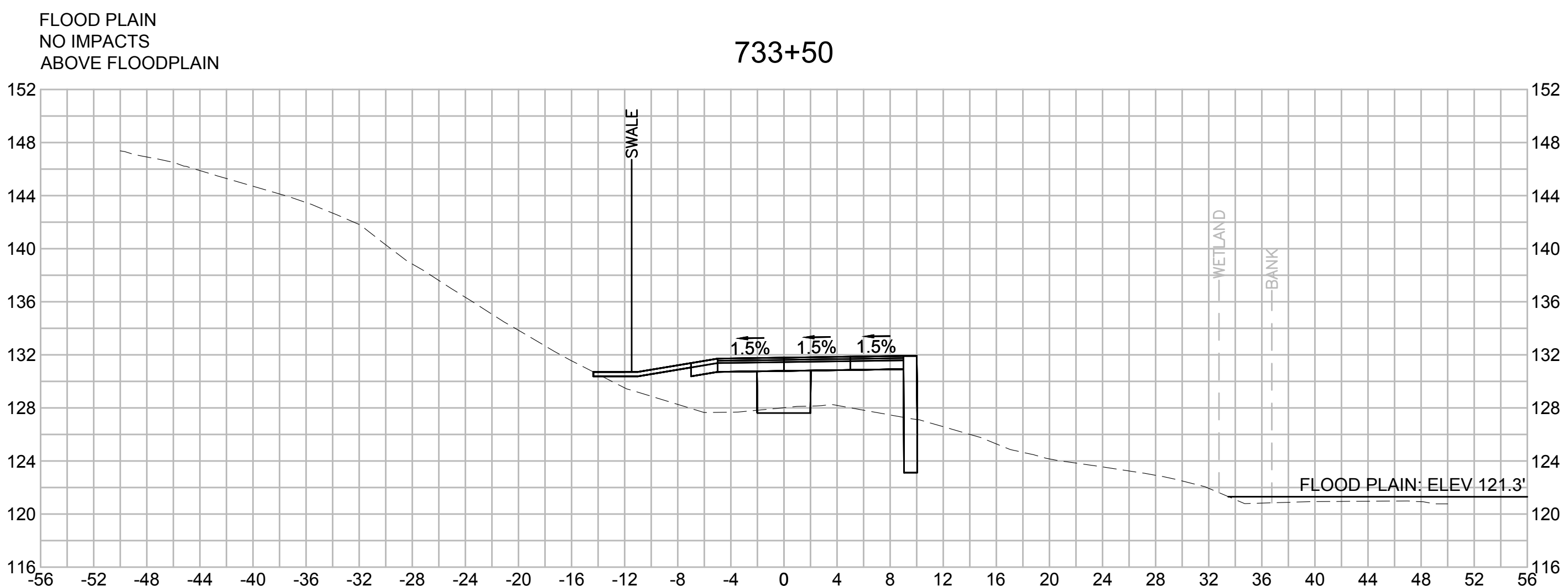
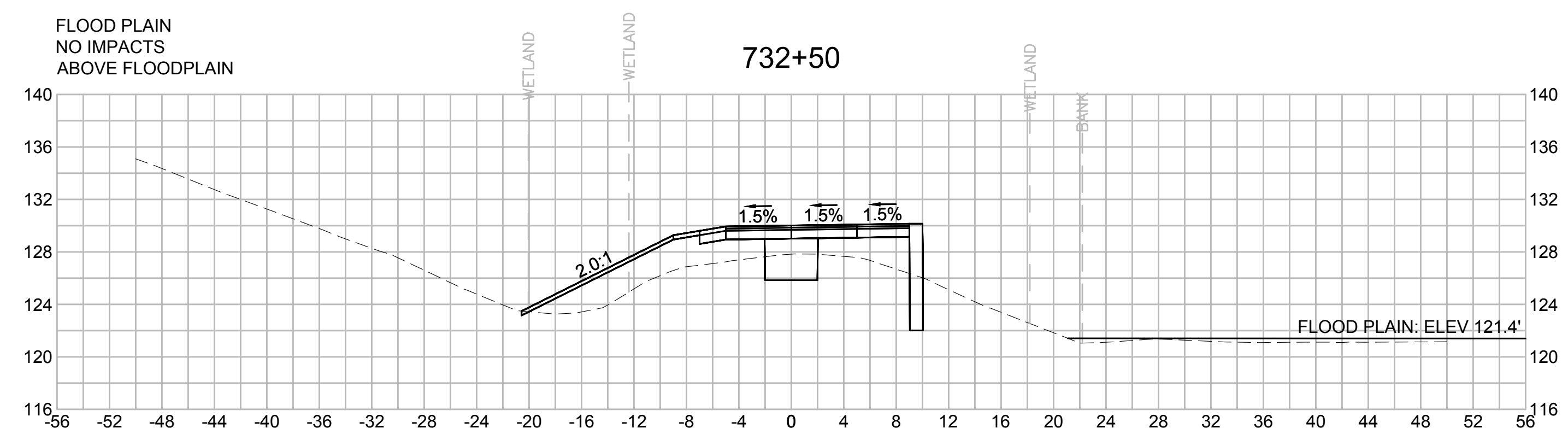
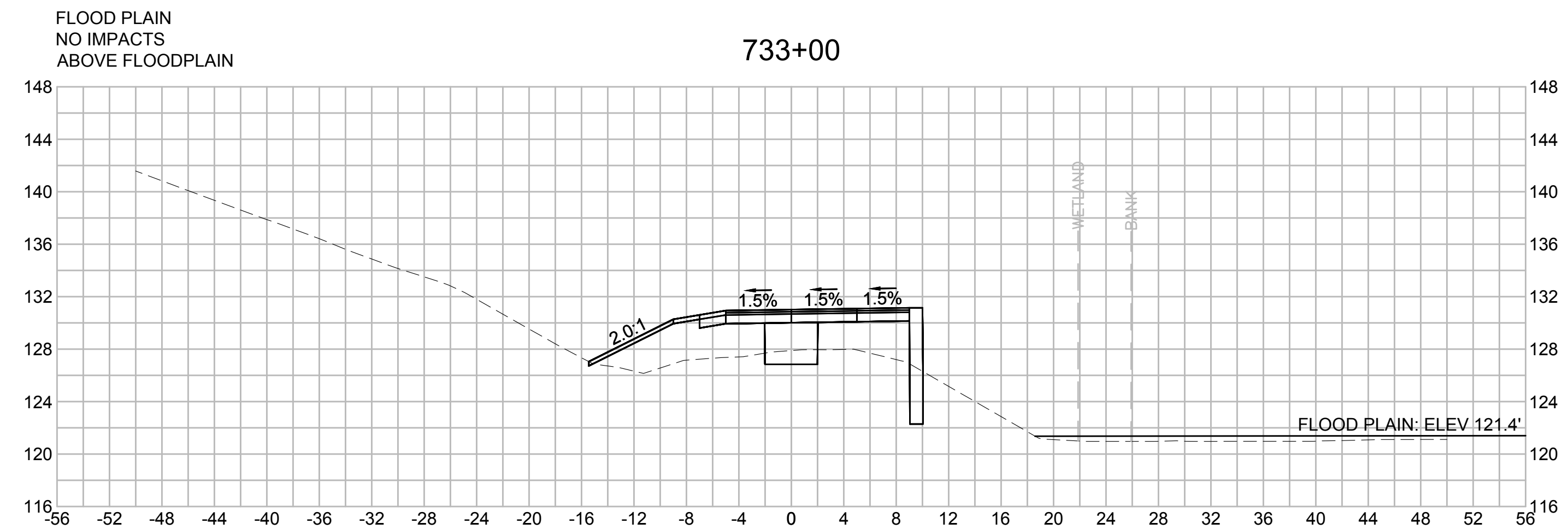
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| N.O. | DESCRIPTION | BY | DATE | APPR. |
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|      | REVISION    |    |      |       |

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 3010F 316

|                              |                   |             |                |                 |             |      |
|------------------------------|-------------------|-------------|----------------|-----------------|-------------|------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A P P R.<br>MES | DRAWING NO. | REV. |
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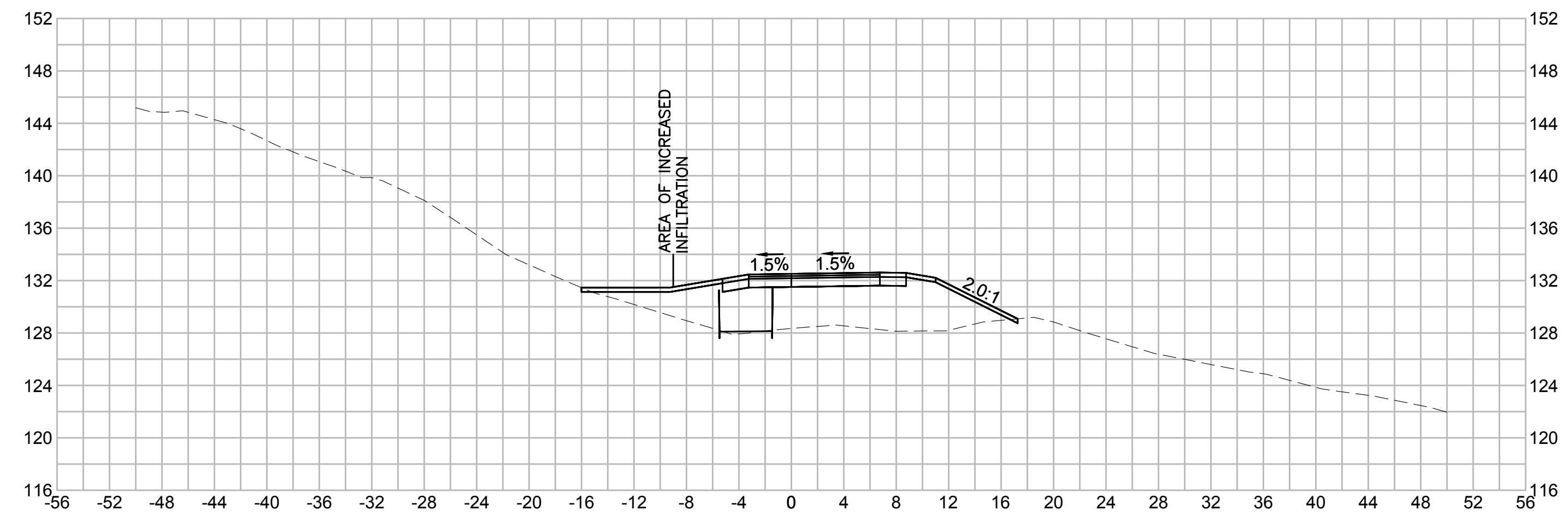
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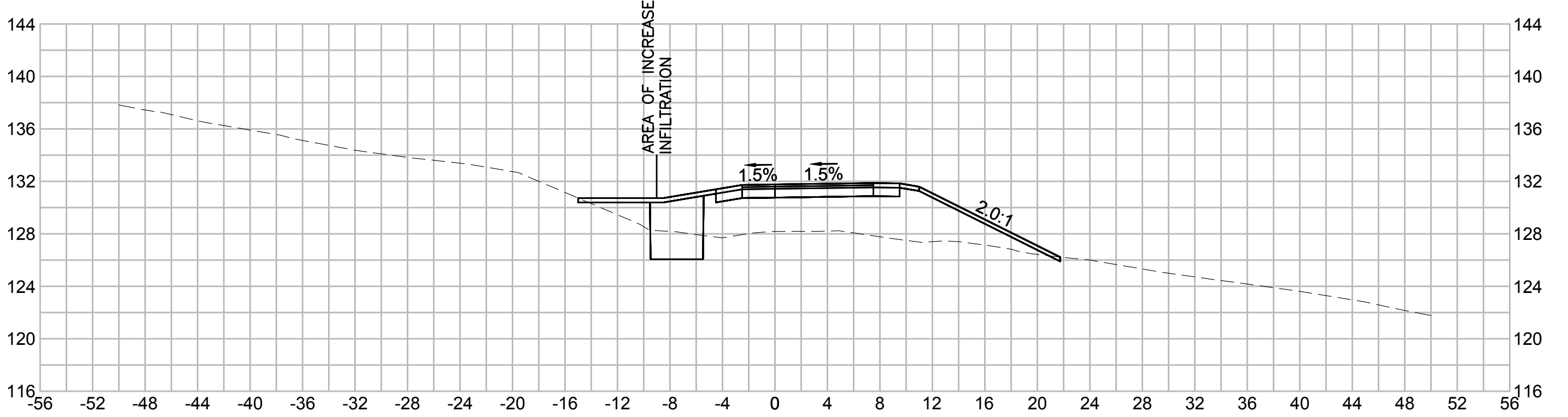
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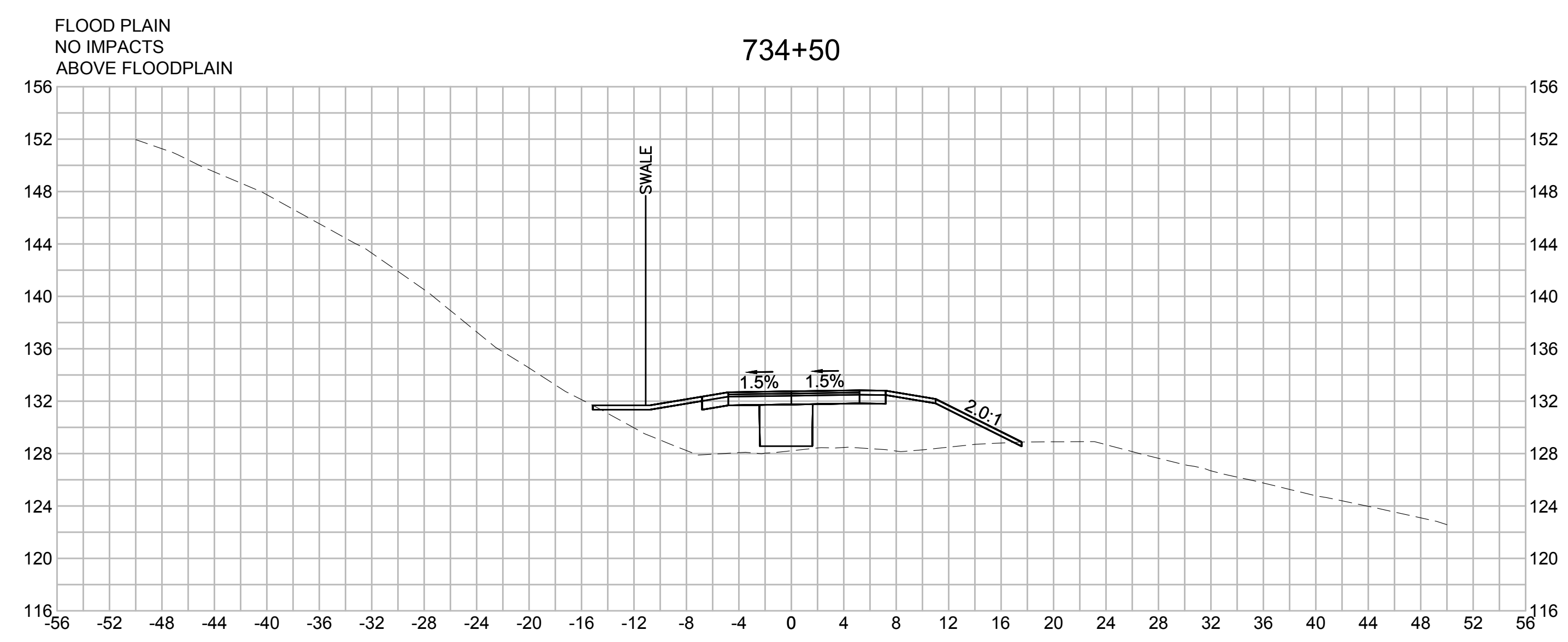
735+00



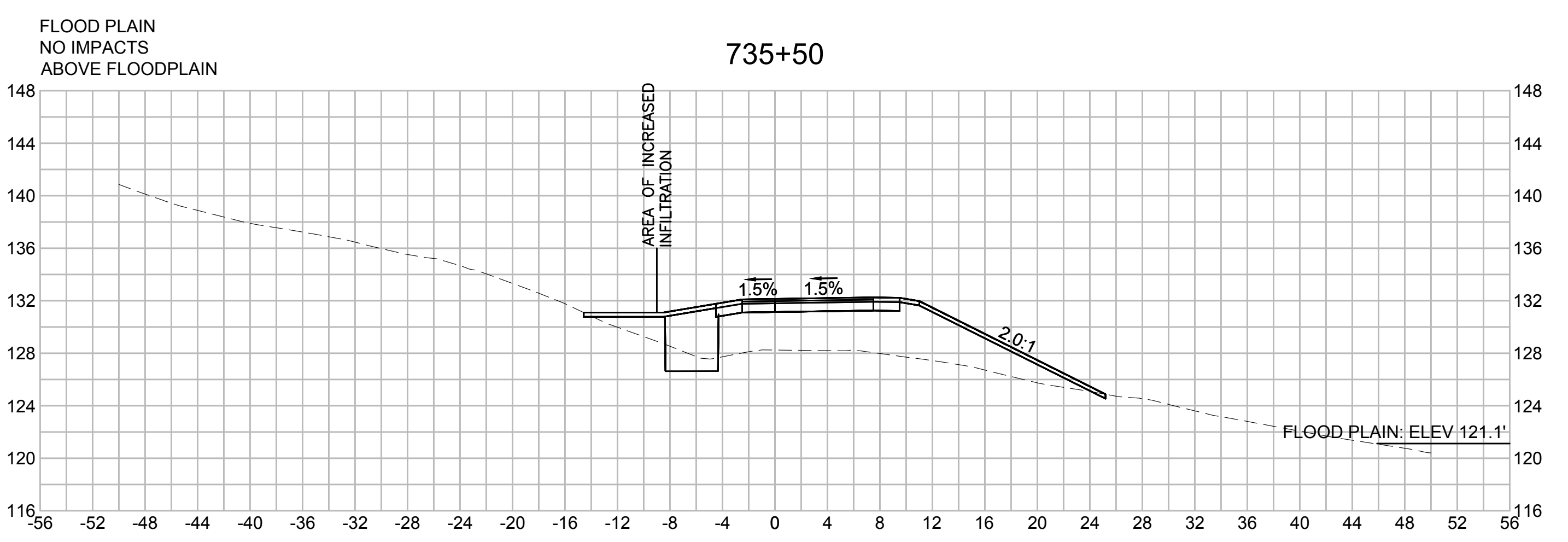
736+00



734+50



735+50



FLOOD PLAIN  
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ABOVE FLOODPLAIN

FLOOD PLAIN  
NO IMPACTS  
ABOVE FLOODPLAIN

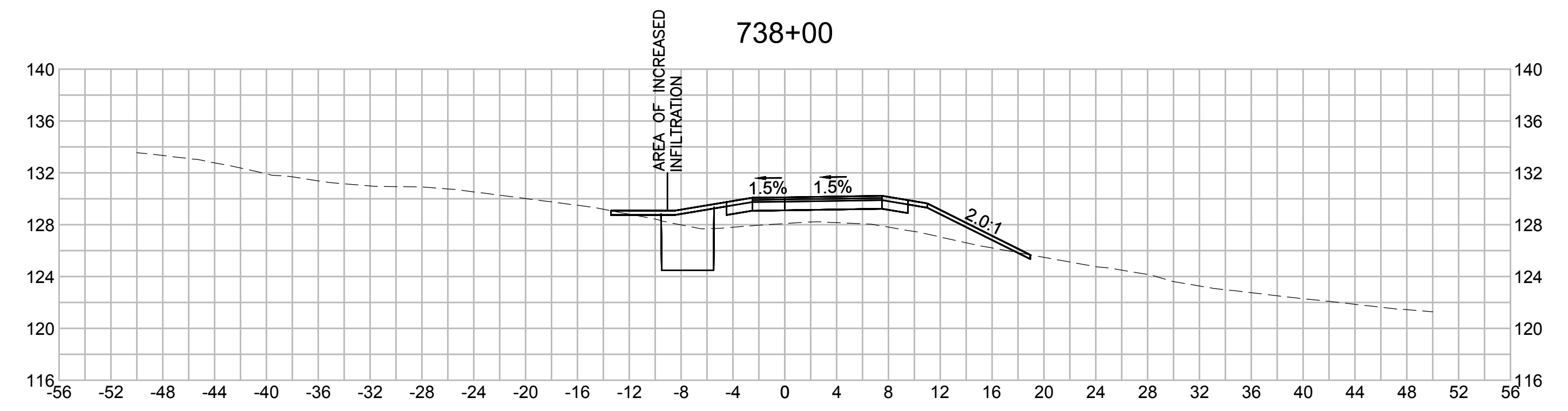
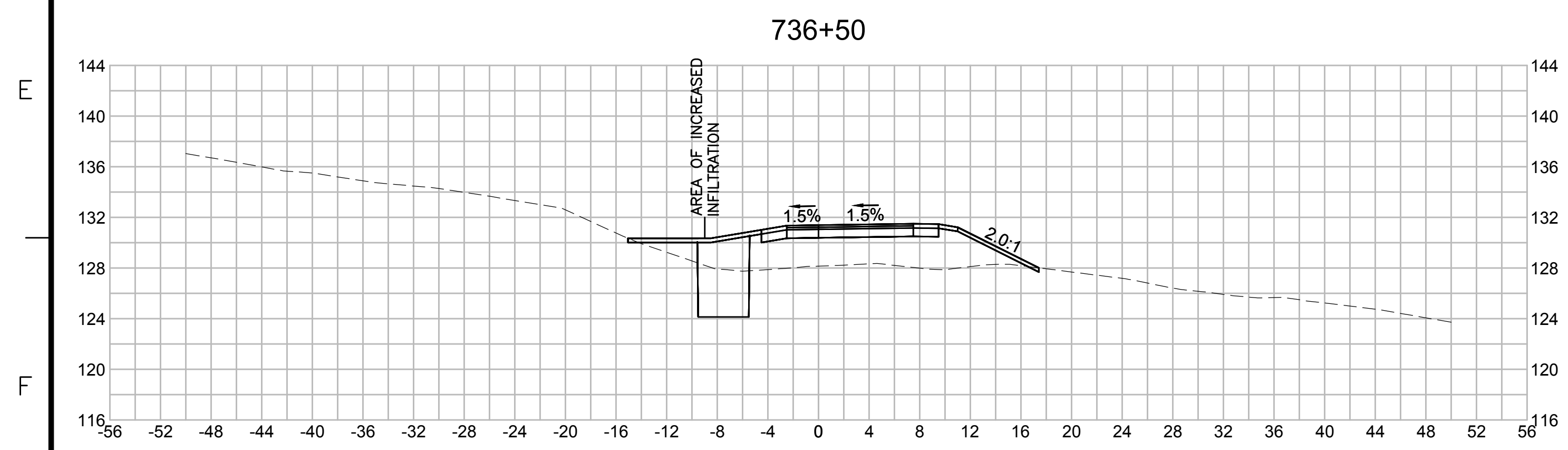
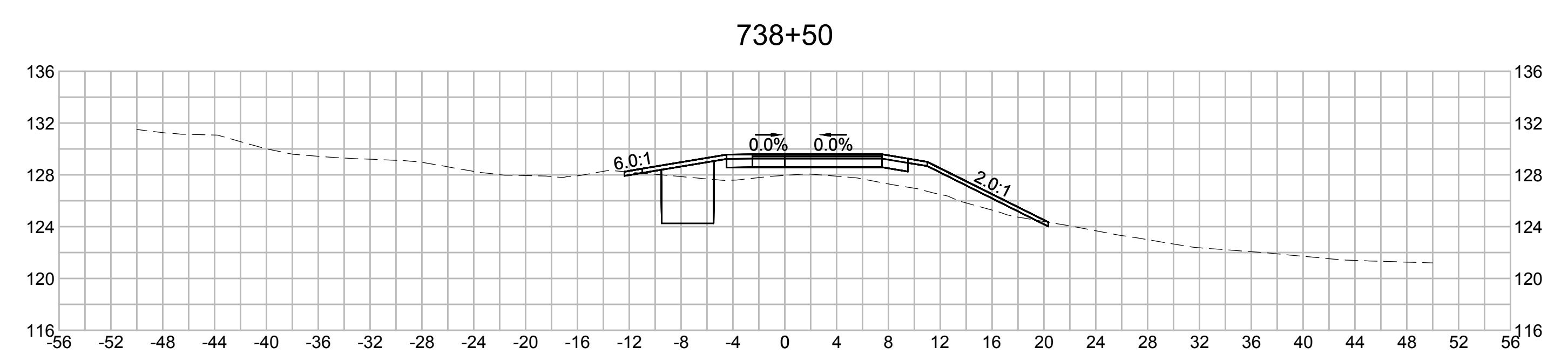
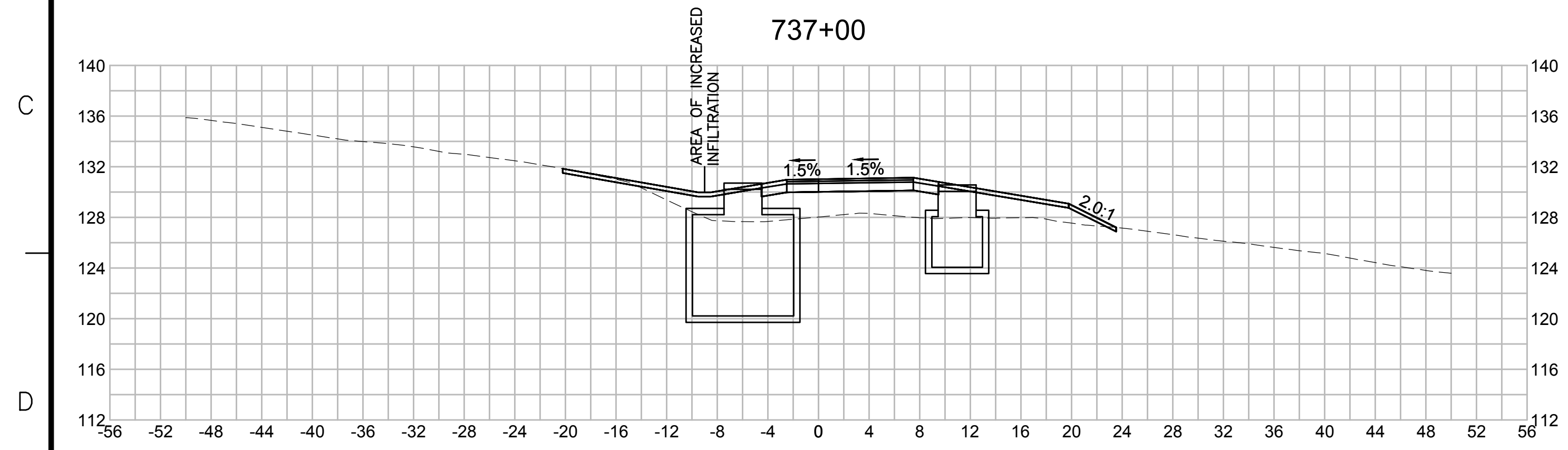
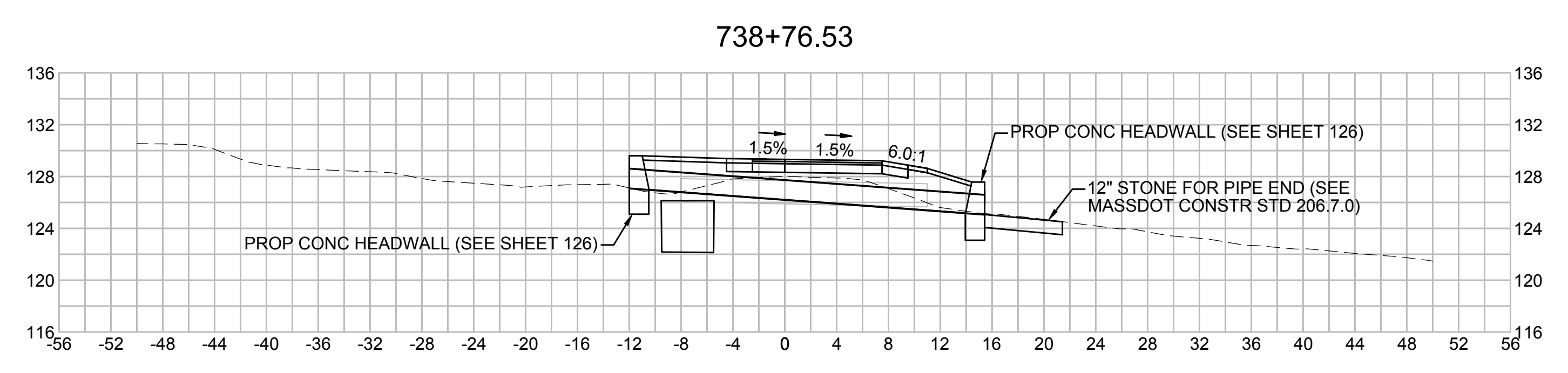
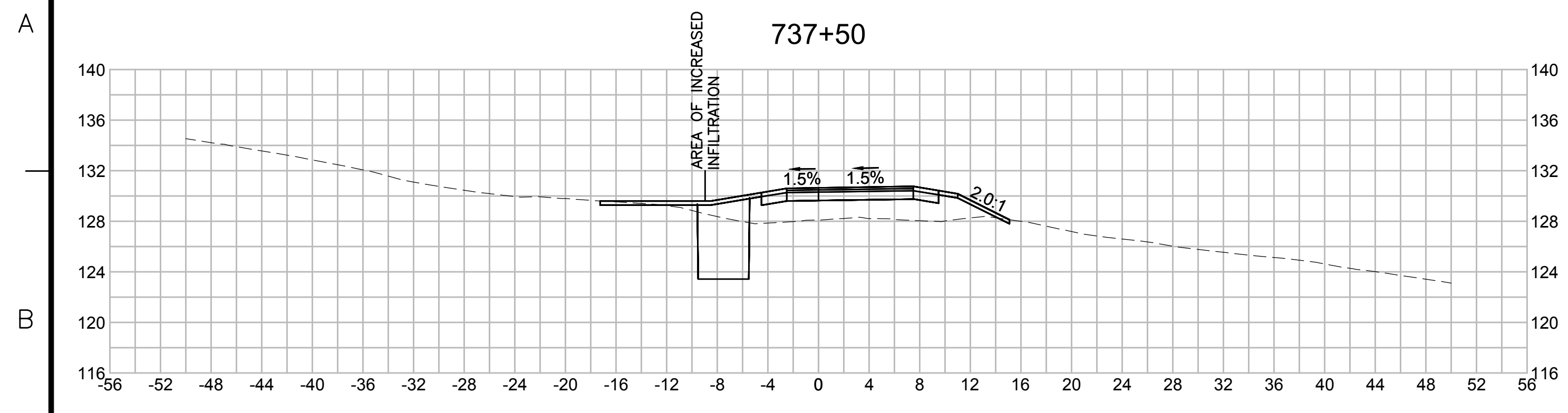


| NO.   |                   | DESCRIPTION |              | BY           | DATE        | APPR. |
|---|-------------------|-------------|--------------|--------------|-------------|-------|
| REVISION  |                   |             |              |              |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |             |       |
| CROSS SECTIONS                                    |                   |             |              |              |             |       |
| PLAN 302 OF 316                                   |                   |             |              |              |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV.  |

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| NO.   |                   | DESCRIPTION |               | BY              | DATE        | APPR. |
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| REVISION  |                   |             |               |                 |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |               |                 |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |                 |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |                 |             |       |
| CROSS SECTIONS                                    |                   |             |               |                 |             |       |
| PLAN 303 OF 316                                   |                   |             |               |                 |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K D.<br>SK | A P P R.<br>MES | DRAWING NO. | REV.  |

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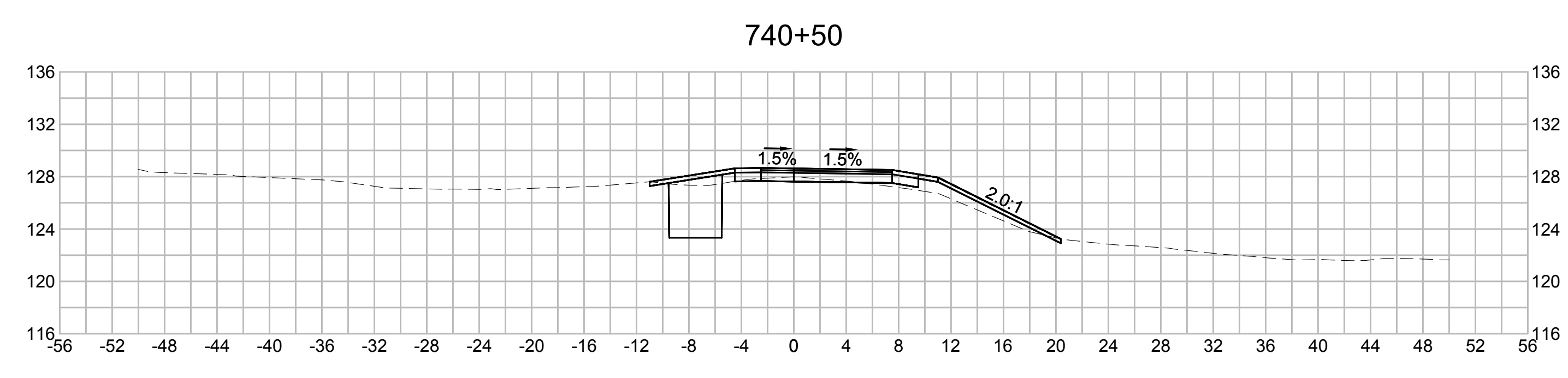
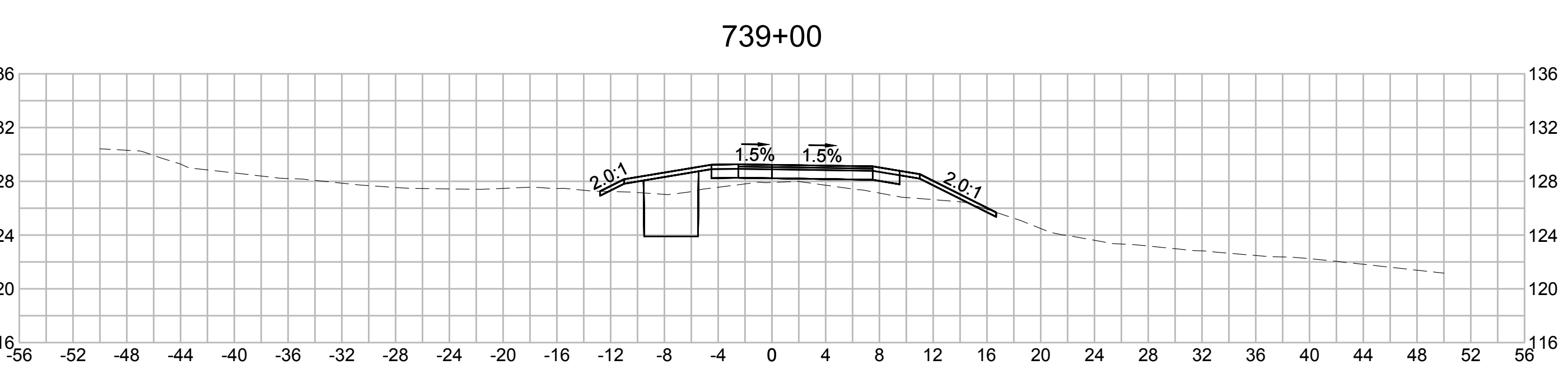
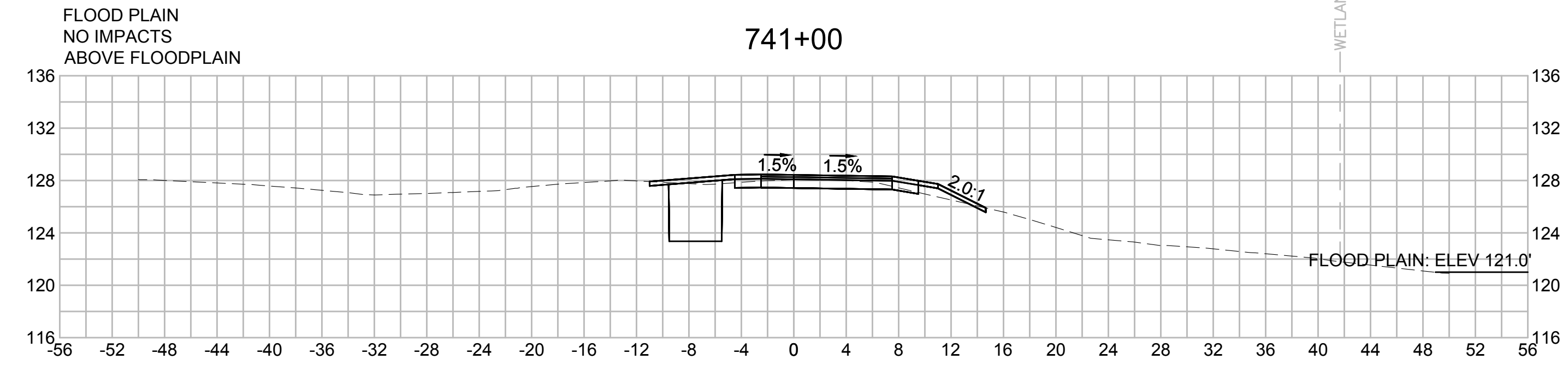
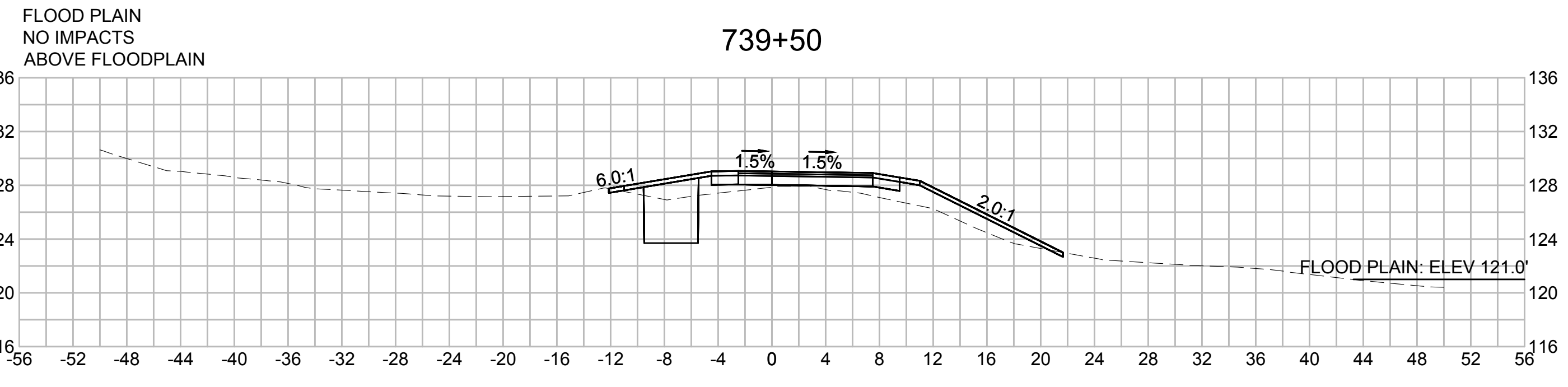
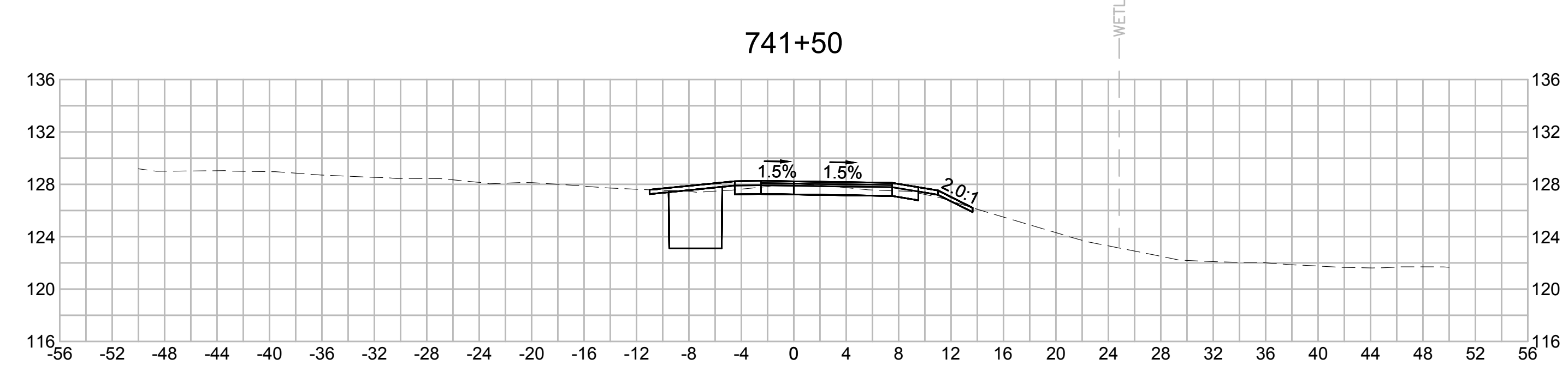
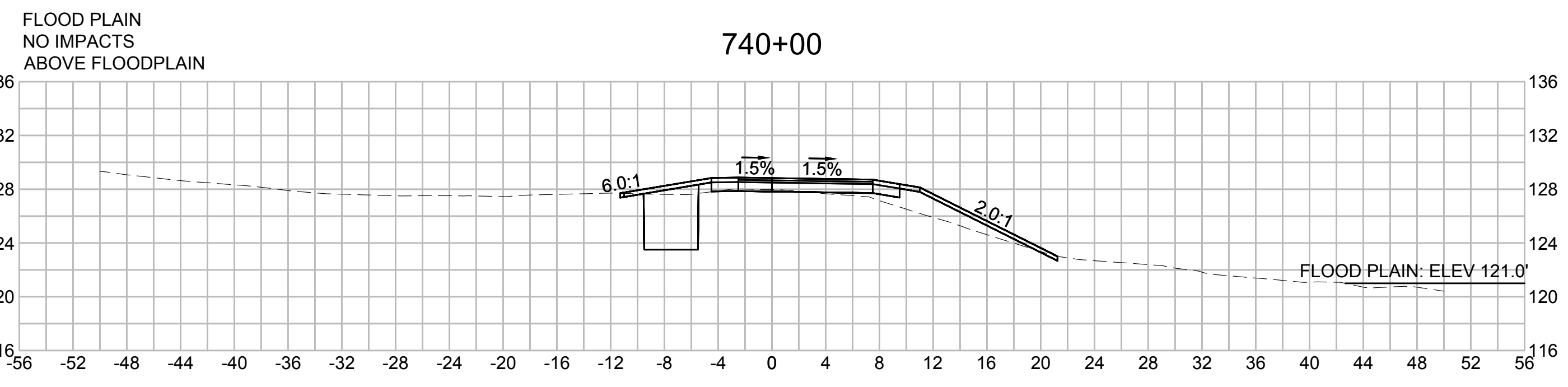
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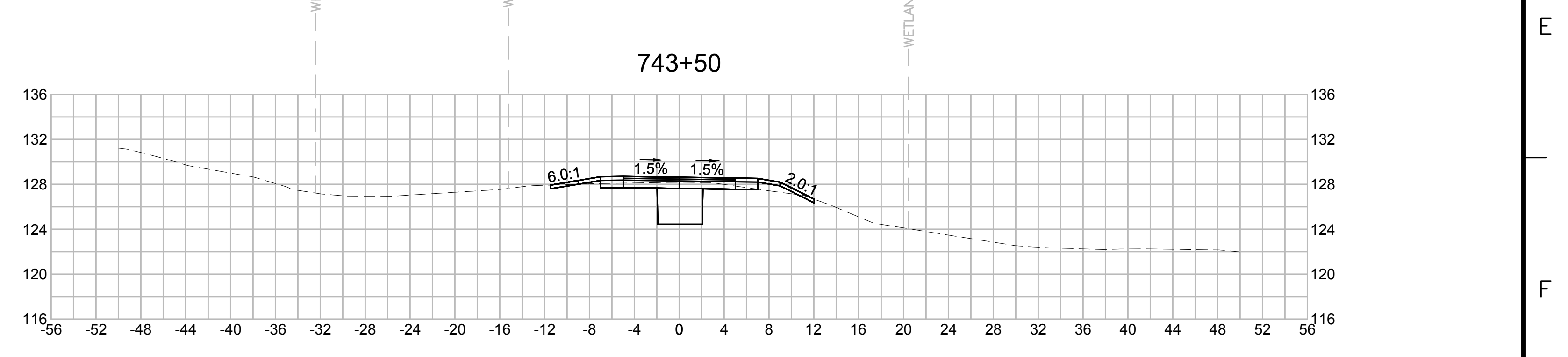
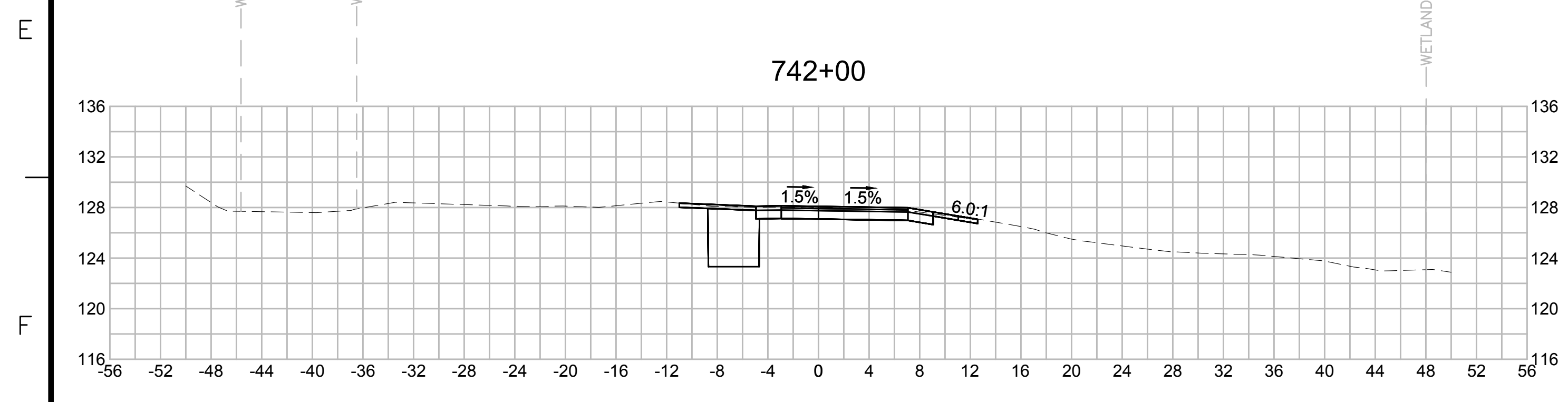
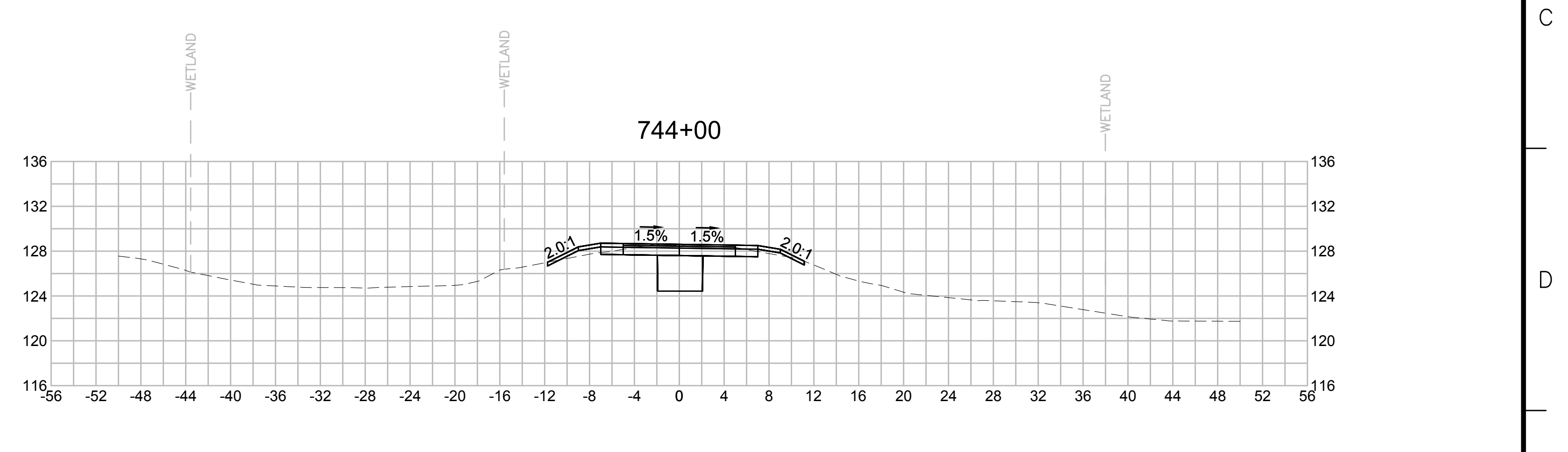
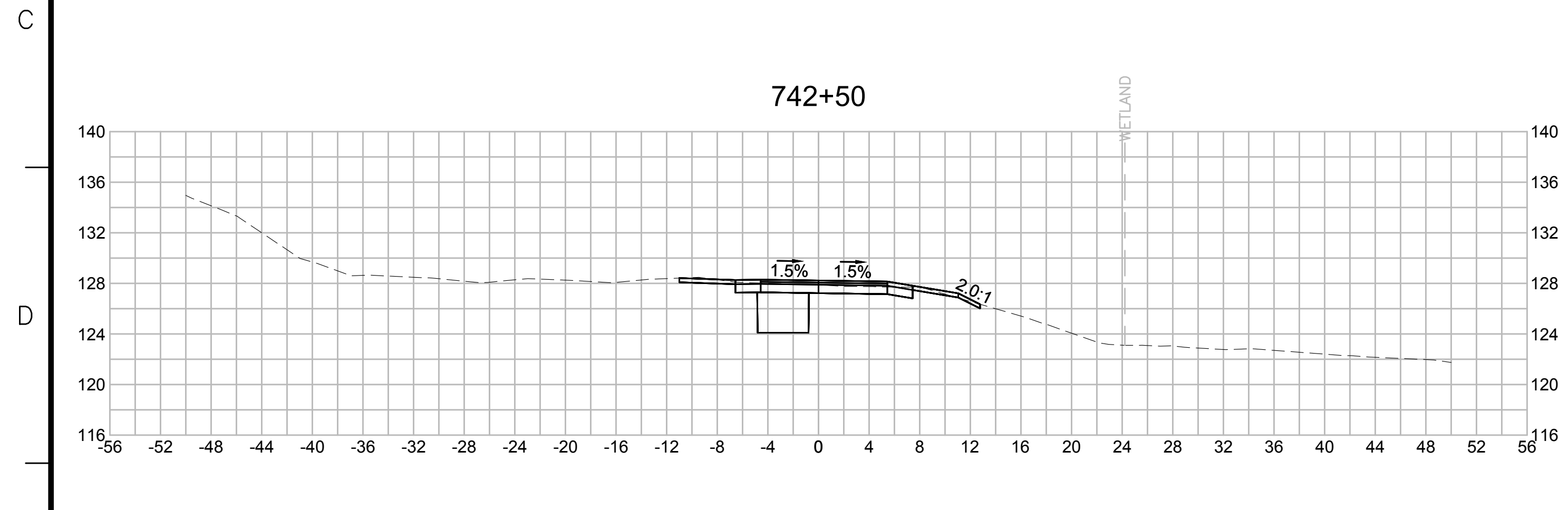
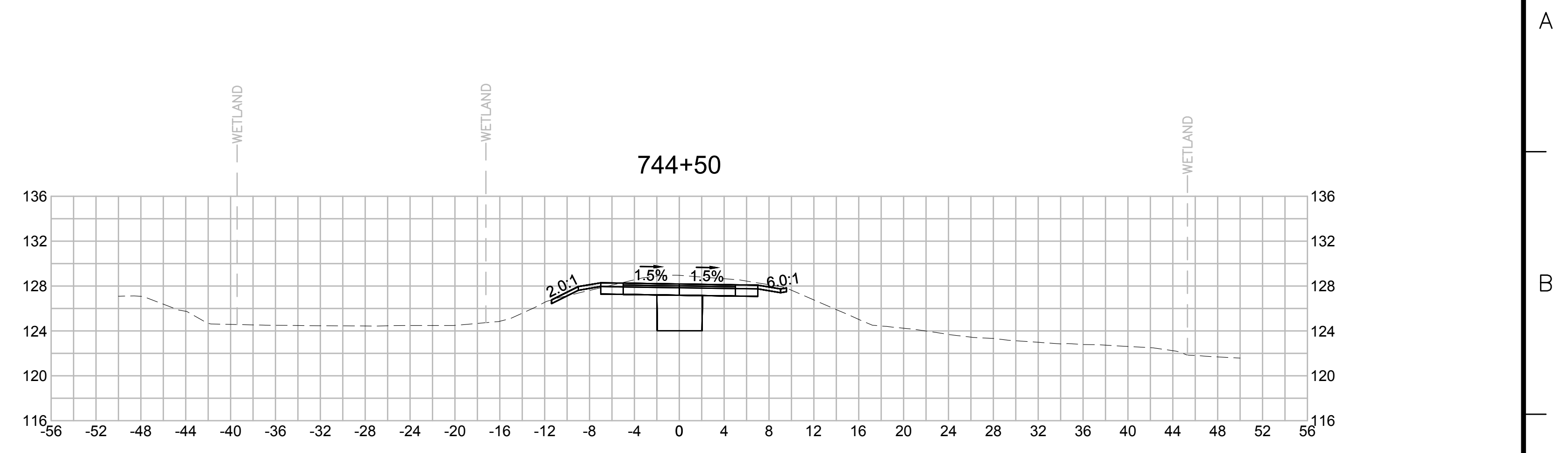
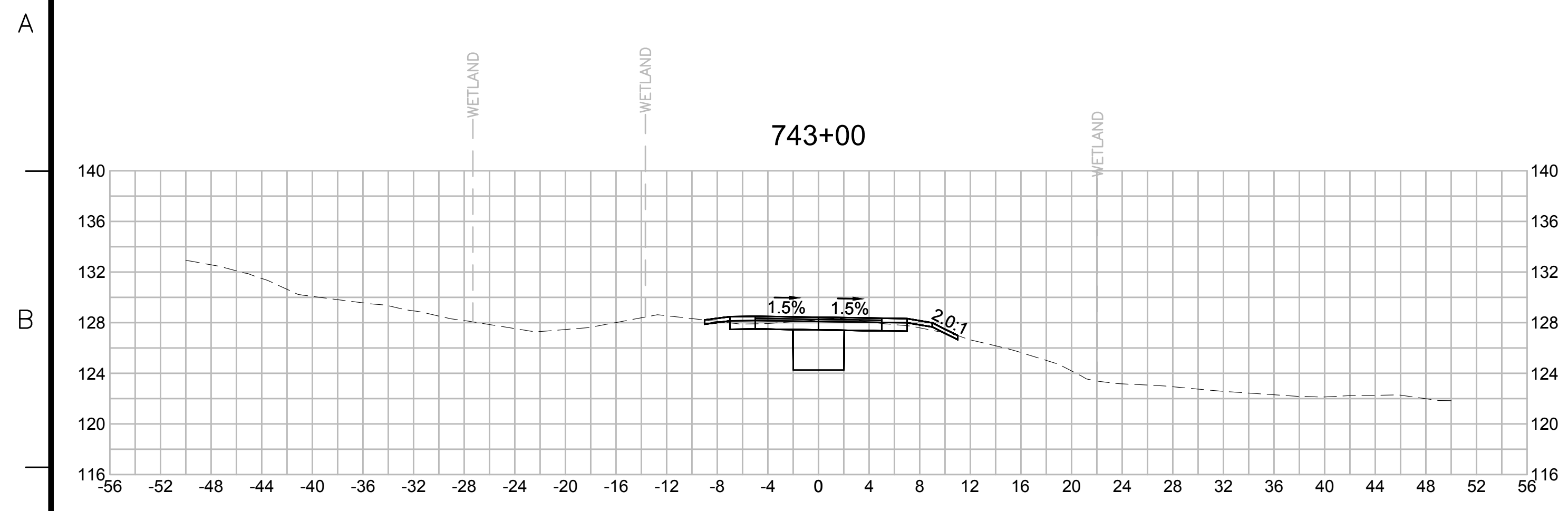
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| N O.  | DESCRIPTION       | BY          | DATE           | APPR.        |
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| REVISION  |                   |             |                |              |
| <b>EVERSOURCE</b>                                 |                   |             |                |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |              |
| CROSS SECTIONS                                    |                   |             |                |              |
| PLAN 304 OF 316                                   |                   |             |                |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |                |              |

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|      | REVISION    |    |      |       |

## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 305 OF 316

|                              |                   |             |                |              |                     |
|------------------------------|-------------------|-------------|----------------|--------------|---------------------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES | DRAWING NO.<br>REV. |
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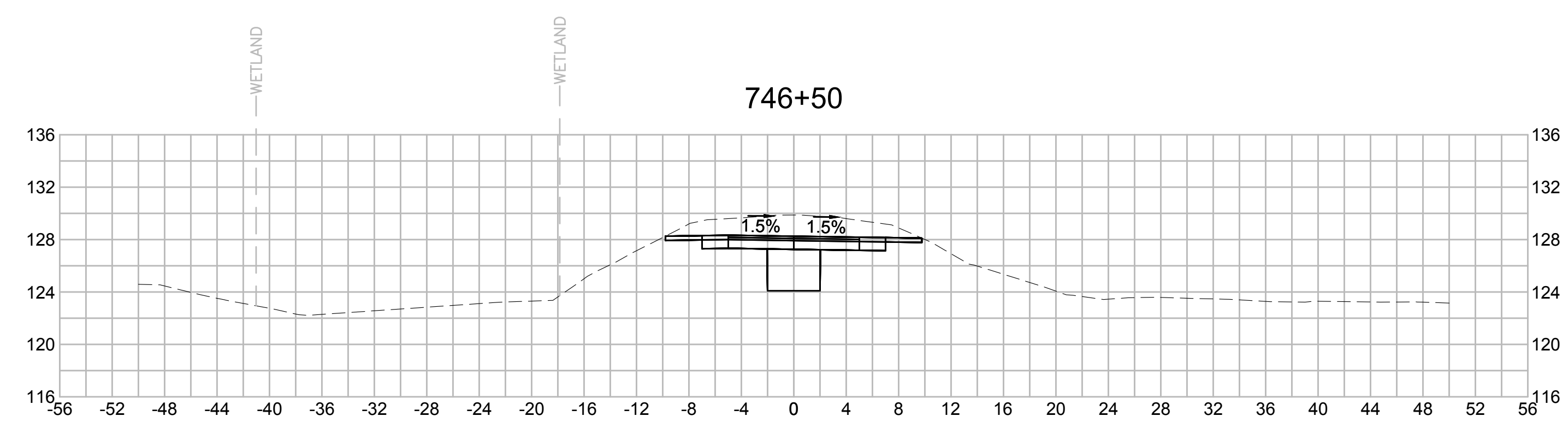
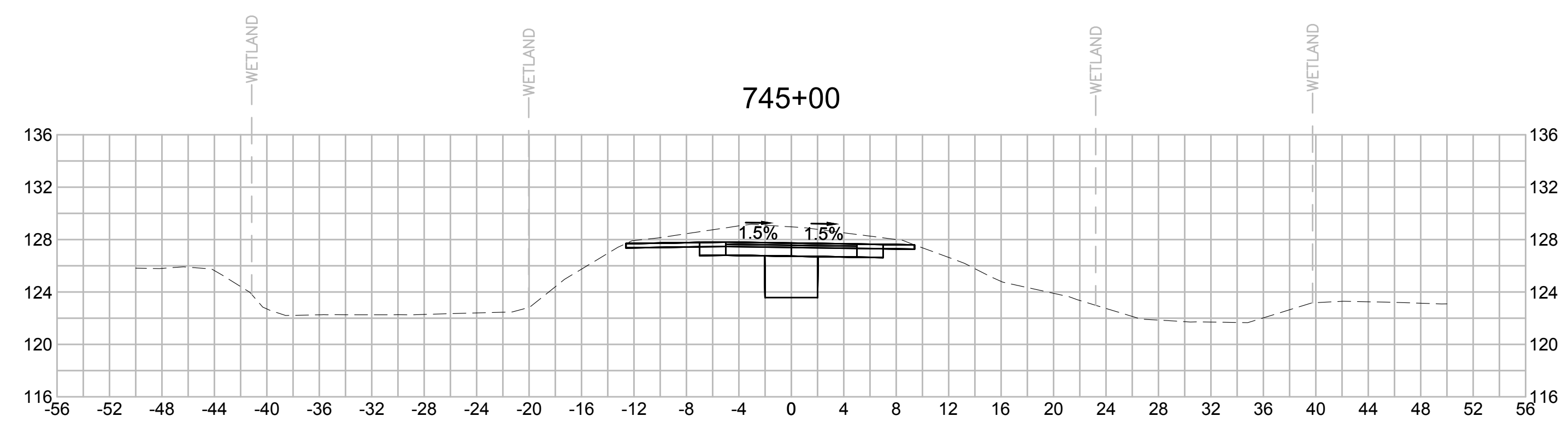
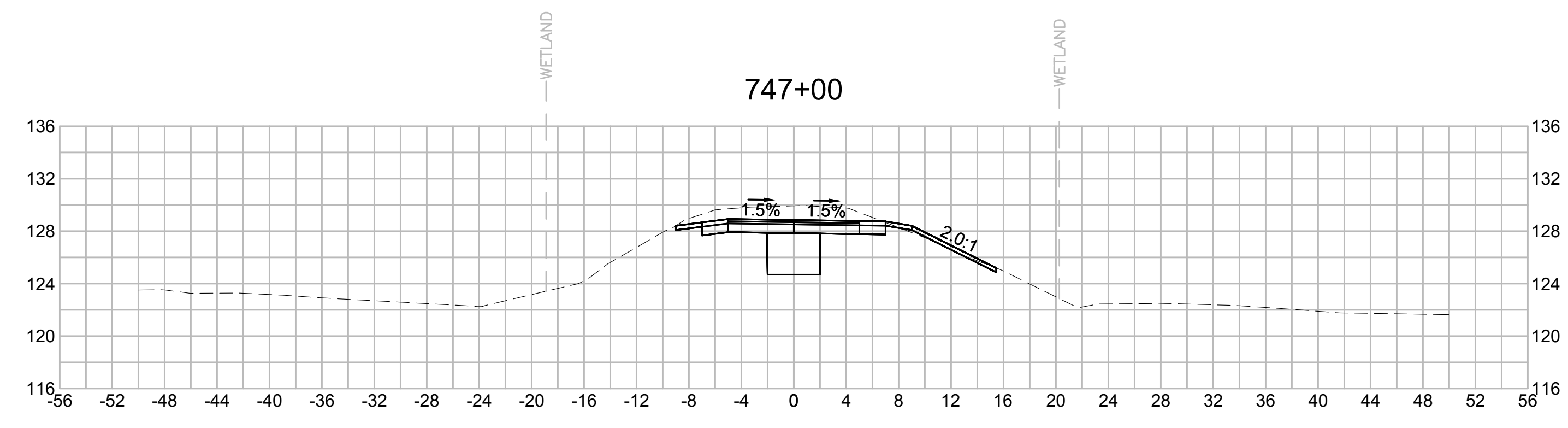
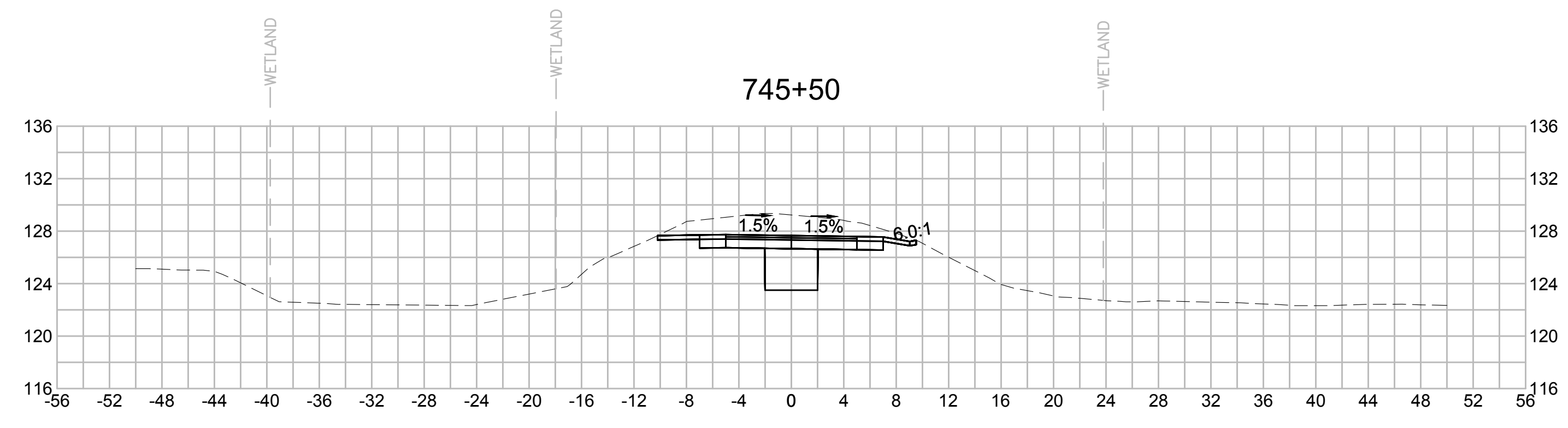
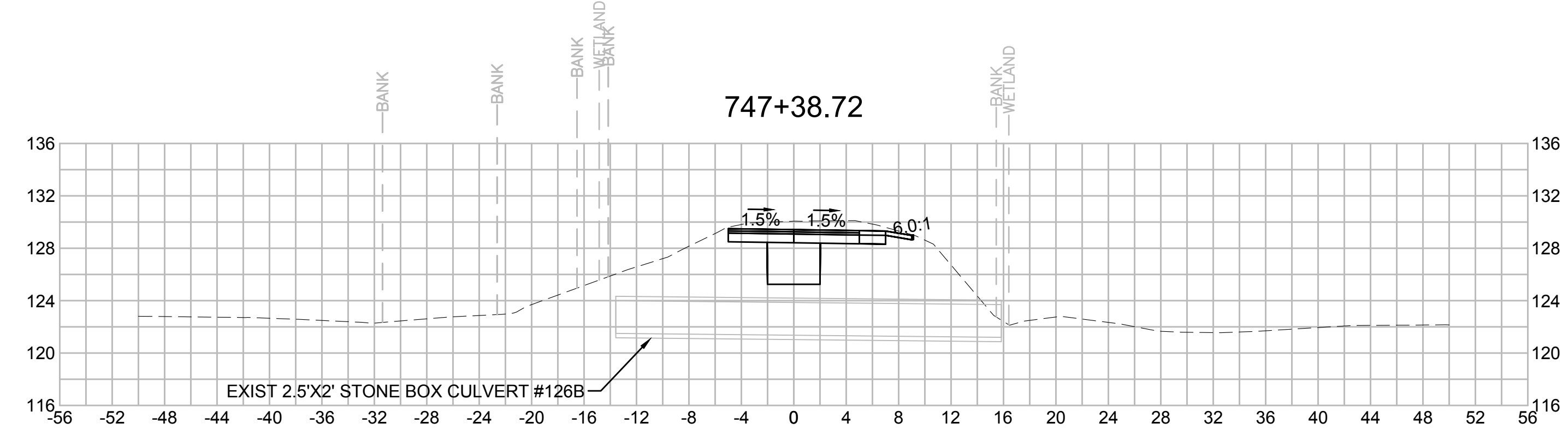
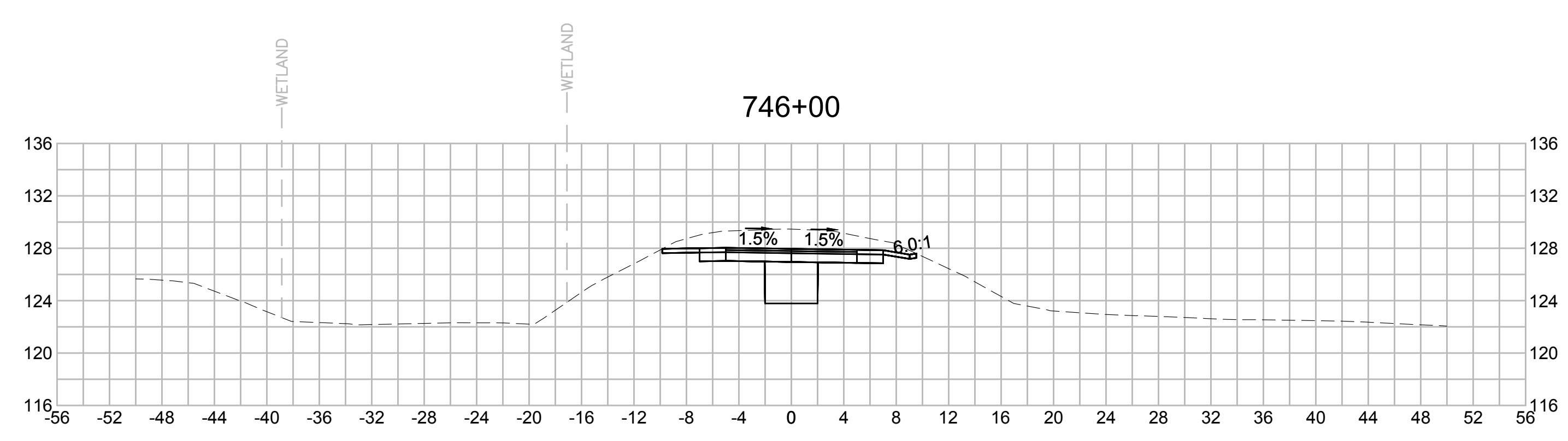
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| N O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
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| REVISION  |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 306 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
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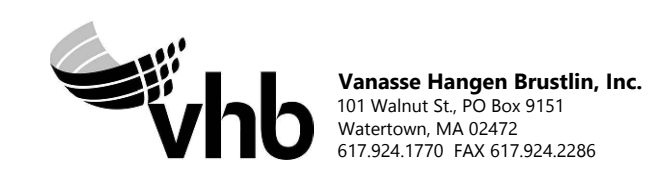
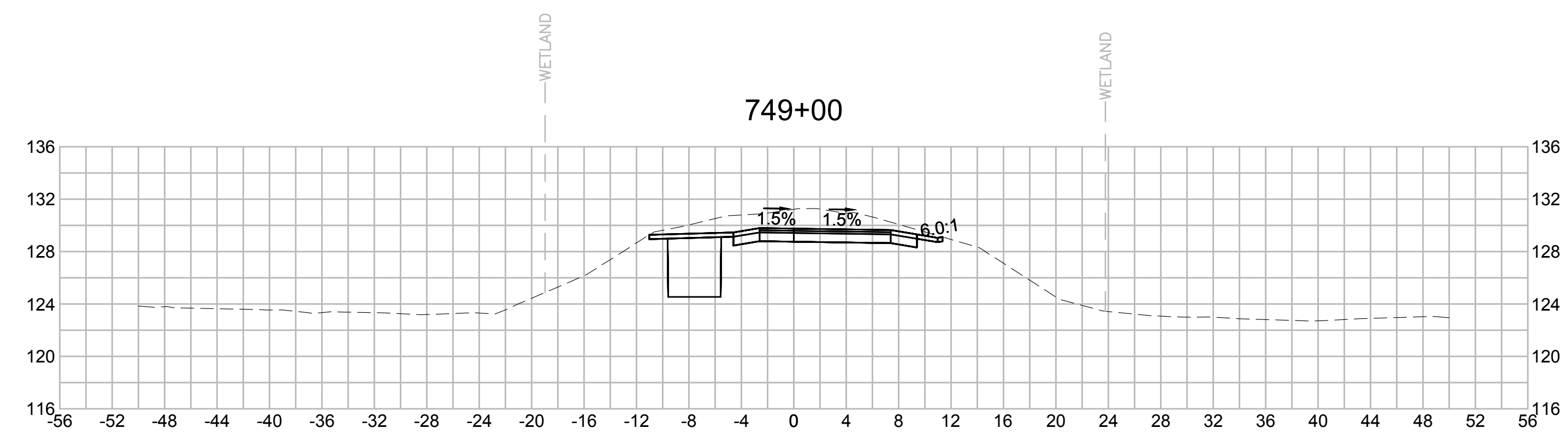
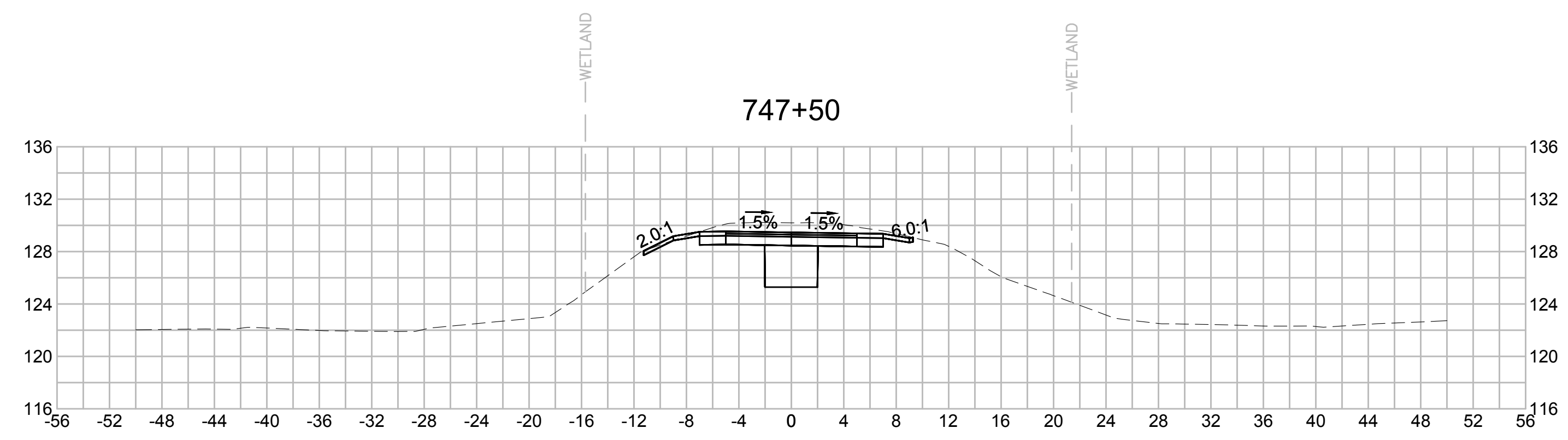
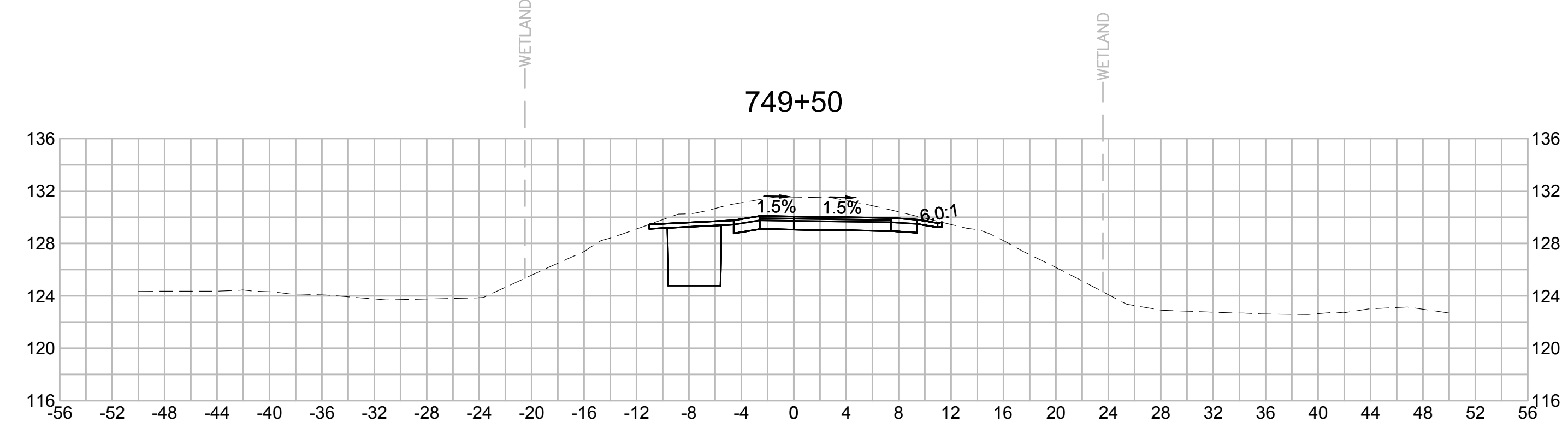
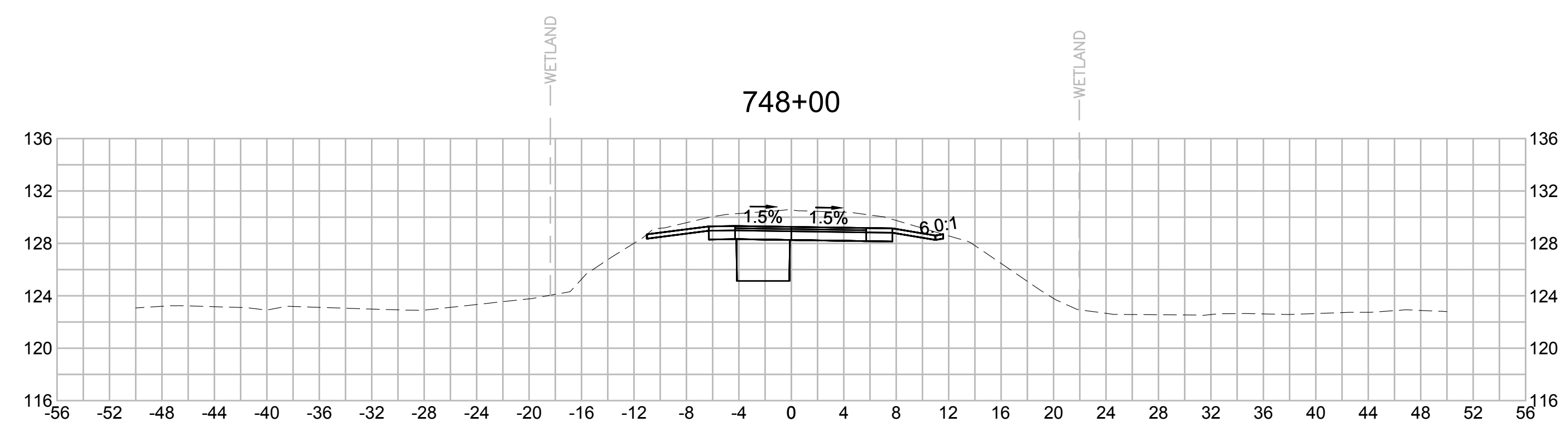
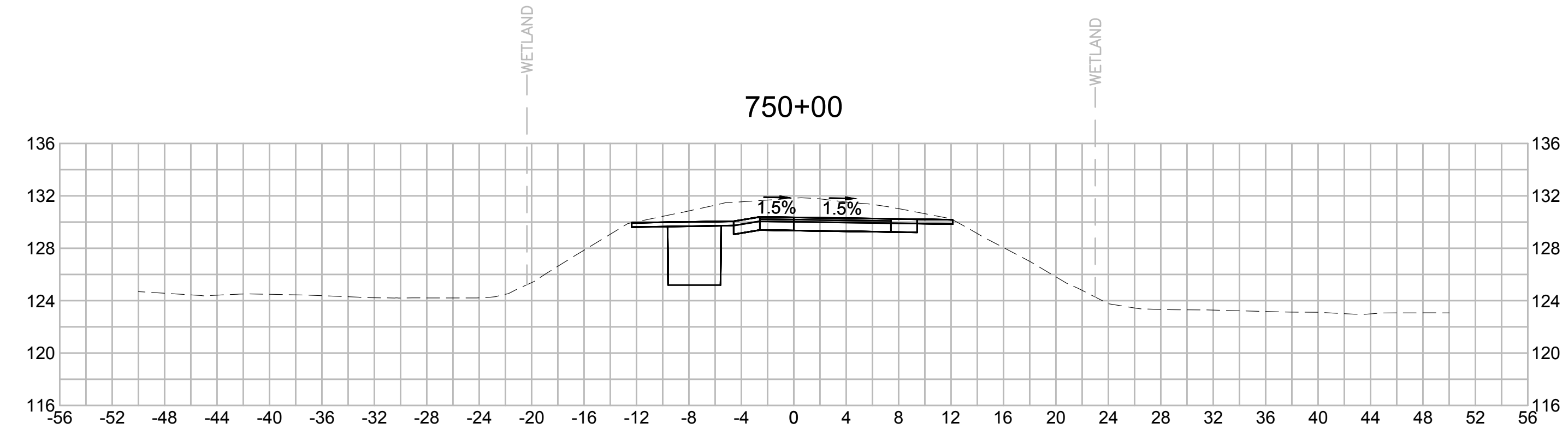
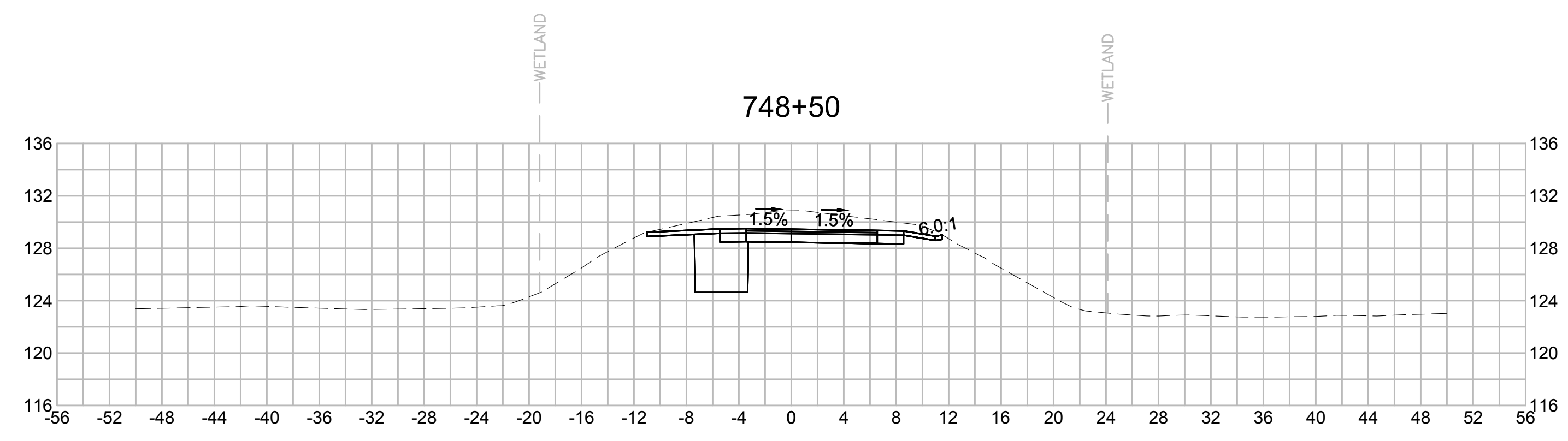
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| NO.   |  | DESCRIPTION |       | BY DATE |       | APPR.       |      |
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| REVISION  |  |             |       |         |       |             |      |
| <b>EVERSOURCE</b>                                 |  |             |       |         |       |             |      |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |  |             |       |         |       |             |      |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |  |             |       |         |       |             |      |
| CROSS SECTIONS                                    |  |             |       |         |       |             |      |
| PLAN 307 OF 316                                   |  |             |       |         |       |             |      |
| SCALE: unless noted<br>1"=8'                      |  | DATE        | DRAWN | CHK'D   | APPR. | DRAWING NO. | REV. |
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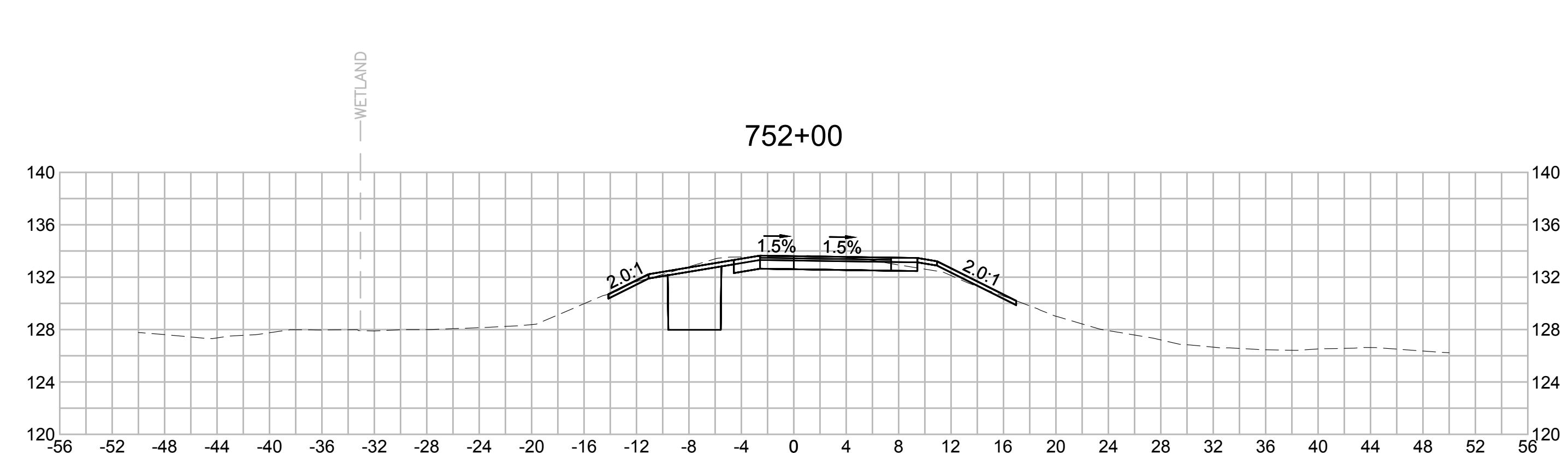
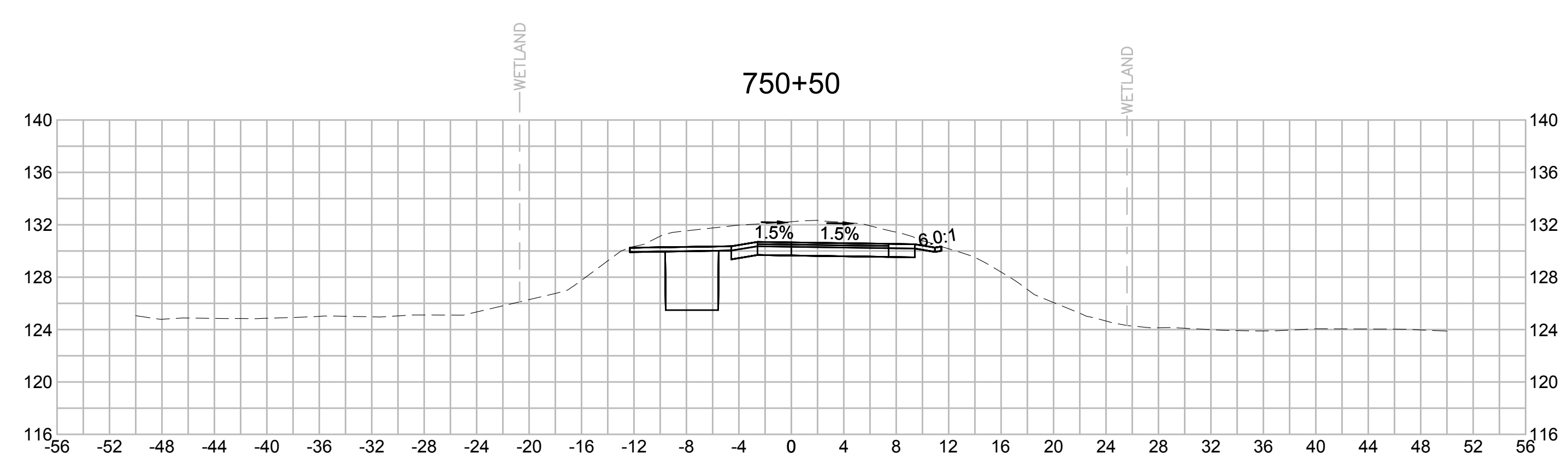
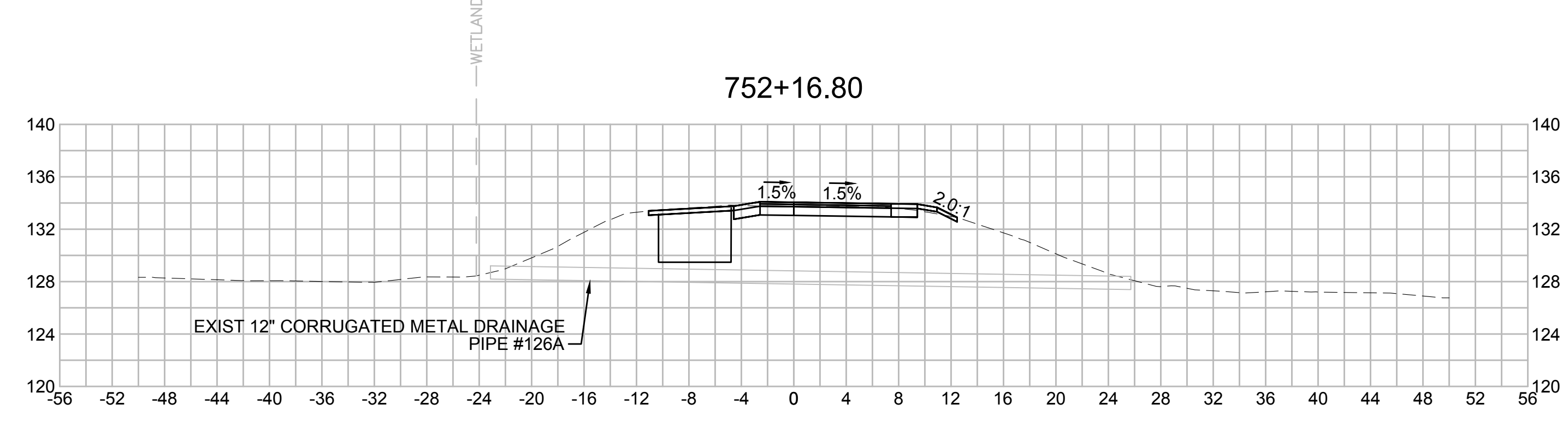
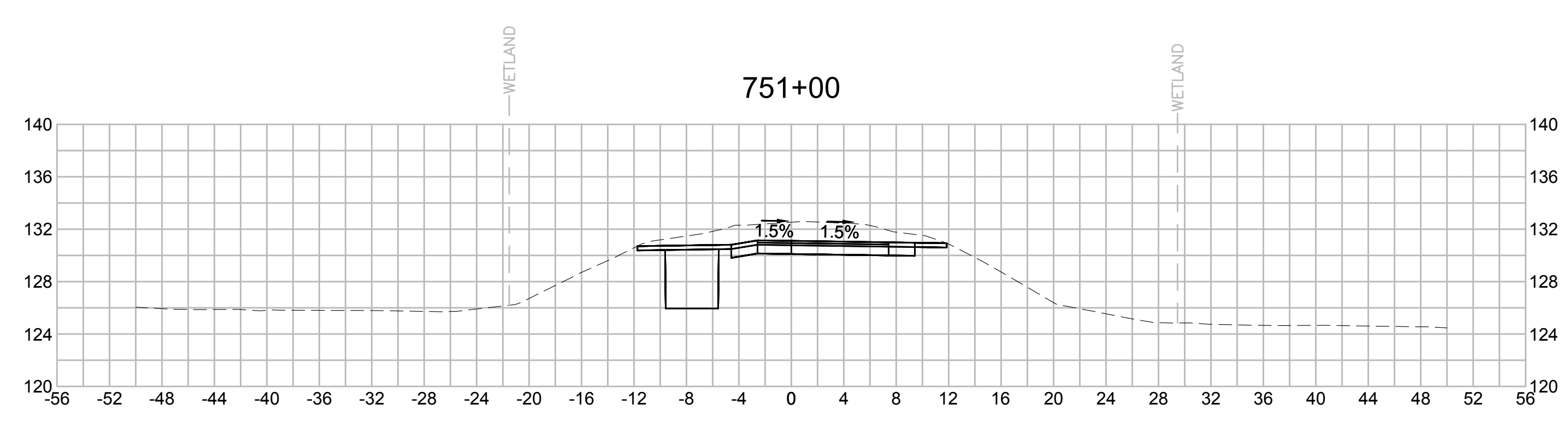
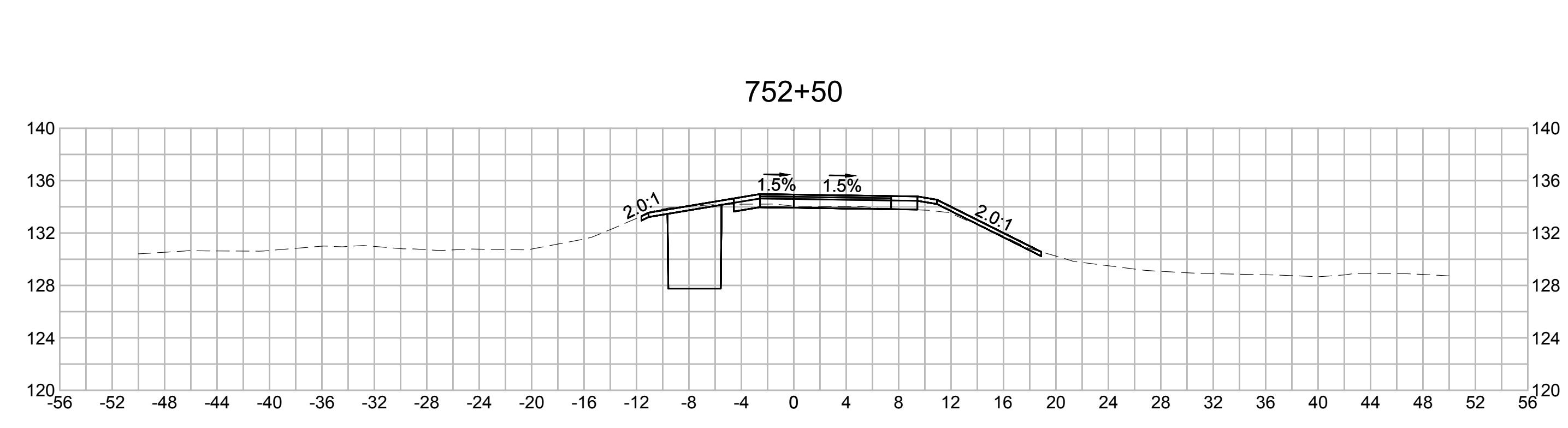
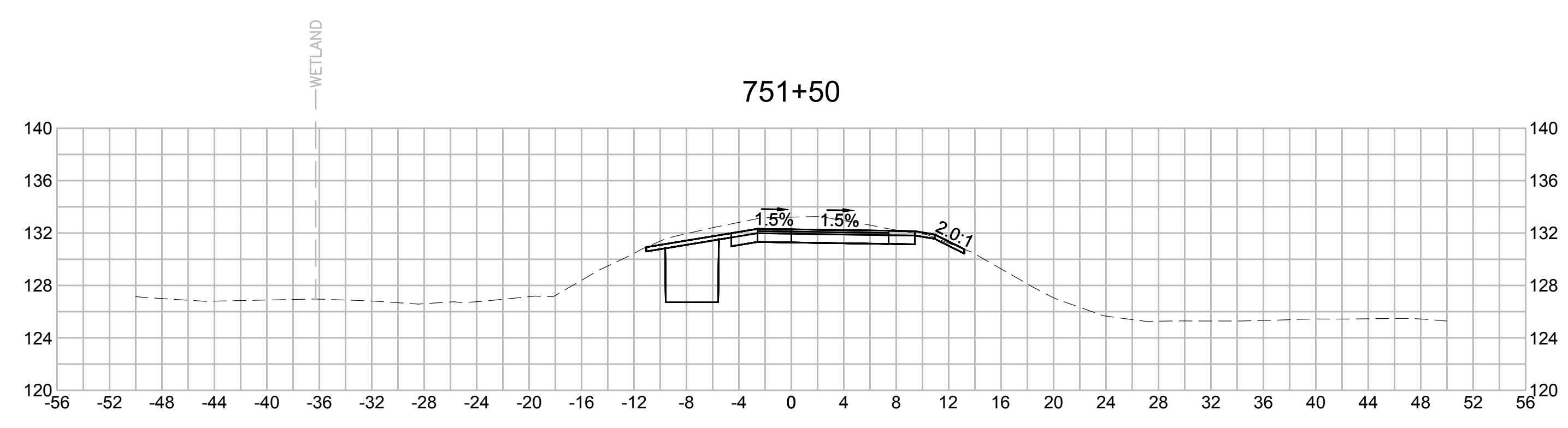
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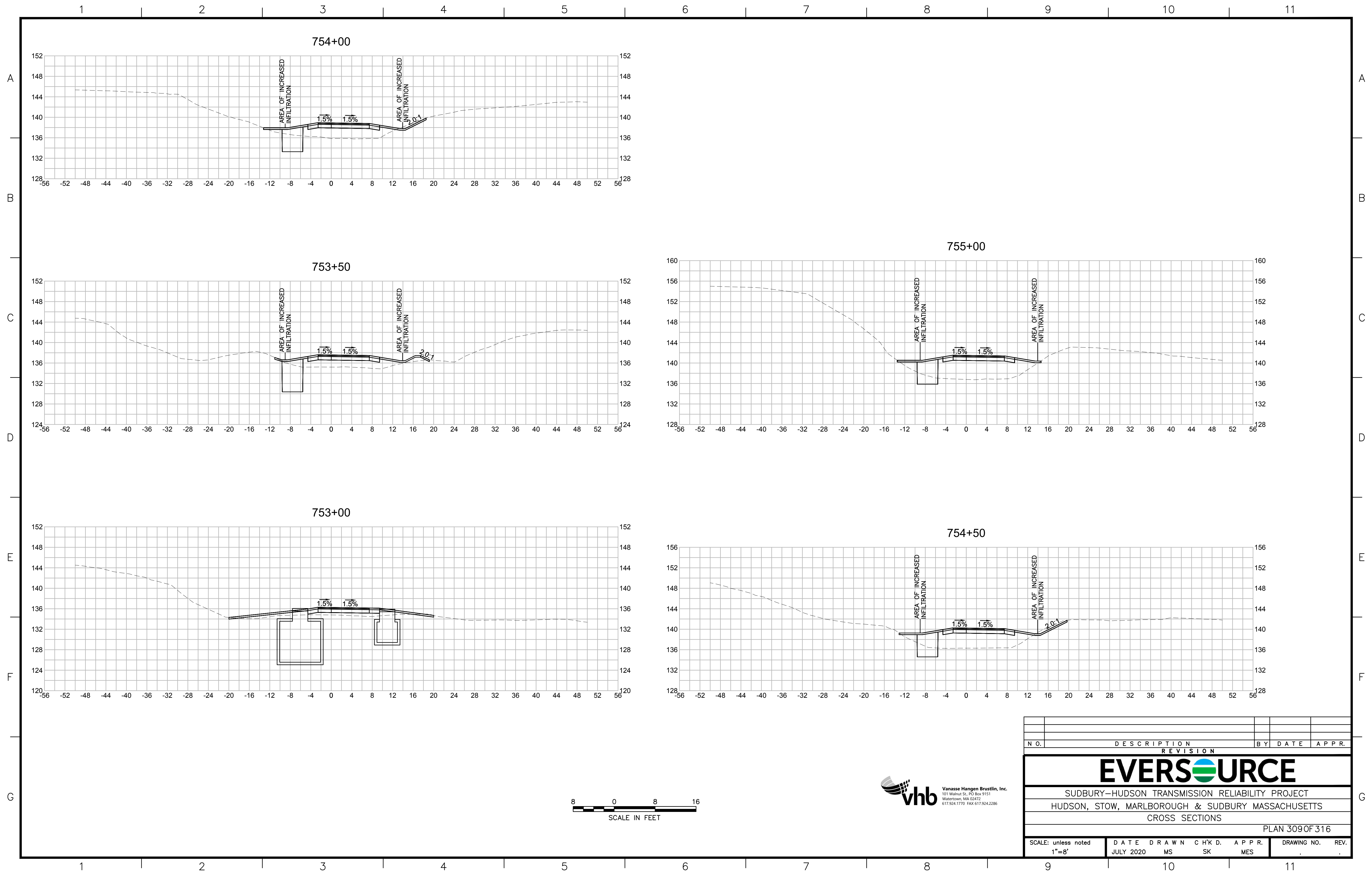
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| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.       |
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| REVISION  |                   |             |                |             |
| <b>EVERSOURCE</b>                                 |                   |             |                |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |             |
| CROSS SECTIONS                                    |                   |             |                |             |
| PLAN 308 OF 316                                   |                   |             |                |             |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       | REV.              |             |                |             |

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| N.O.  | DESCRIPTION       | BY          | DATE          | APPR.        |
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|   | REVISION          |             |               |              |
| <b>EVERSOURCE</b>                                 |                   |             |               |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |              |
| CROSS SECTIONS                                    |                   |             |               |              |
| PLAN 309 OF 316                                   |                   |             |               |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |               |              |

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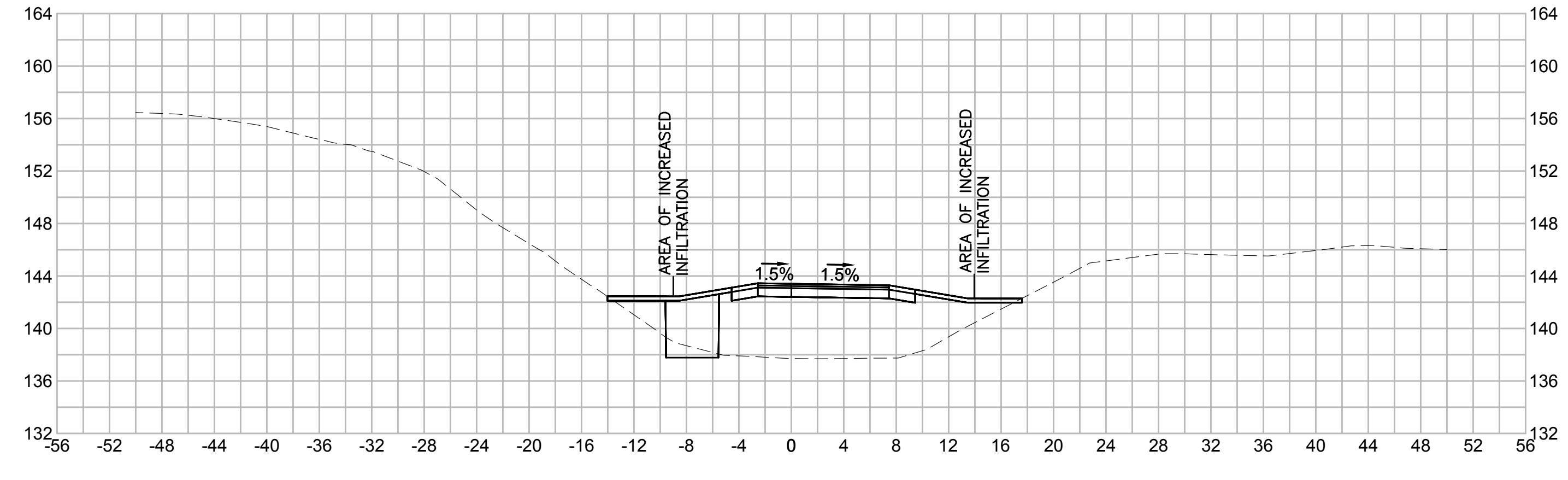
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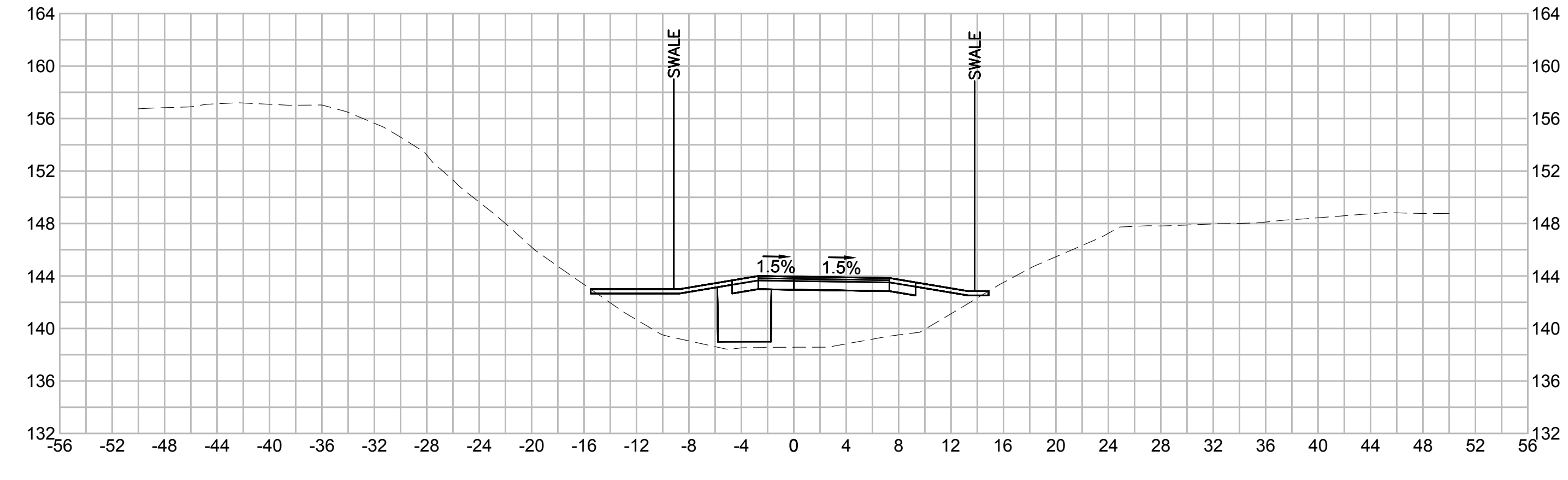
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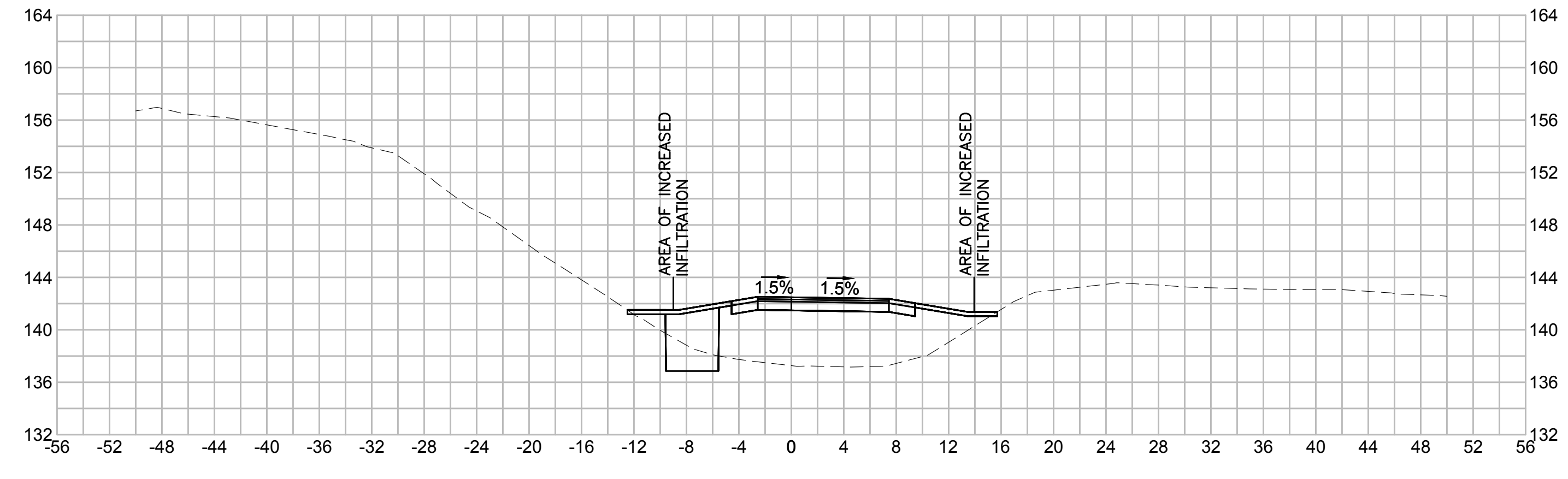
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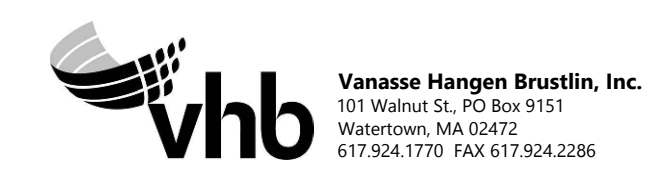
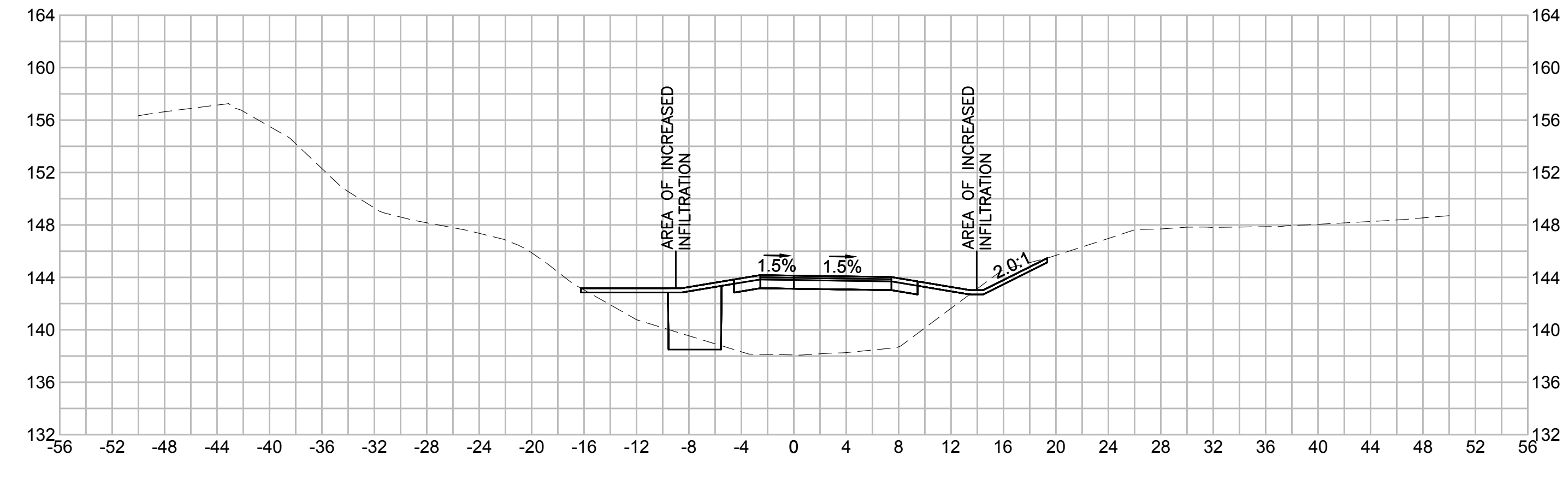
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| N.O.  | DESCRIPTION       | BY          | DATE           | APPR.           |
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|   | REVISION          |             |                |                 |
| <b>EVERSOURCE</b>                                 |                   |             |                |                 |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |                |                 |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |                |                 |
| CROSS SECTIONS                                    |                   |             |                |                 |
| PLAN 310 OF 316                                   |                   |             |                |                 |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | A P P R.<br>MES |
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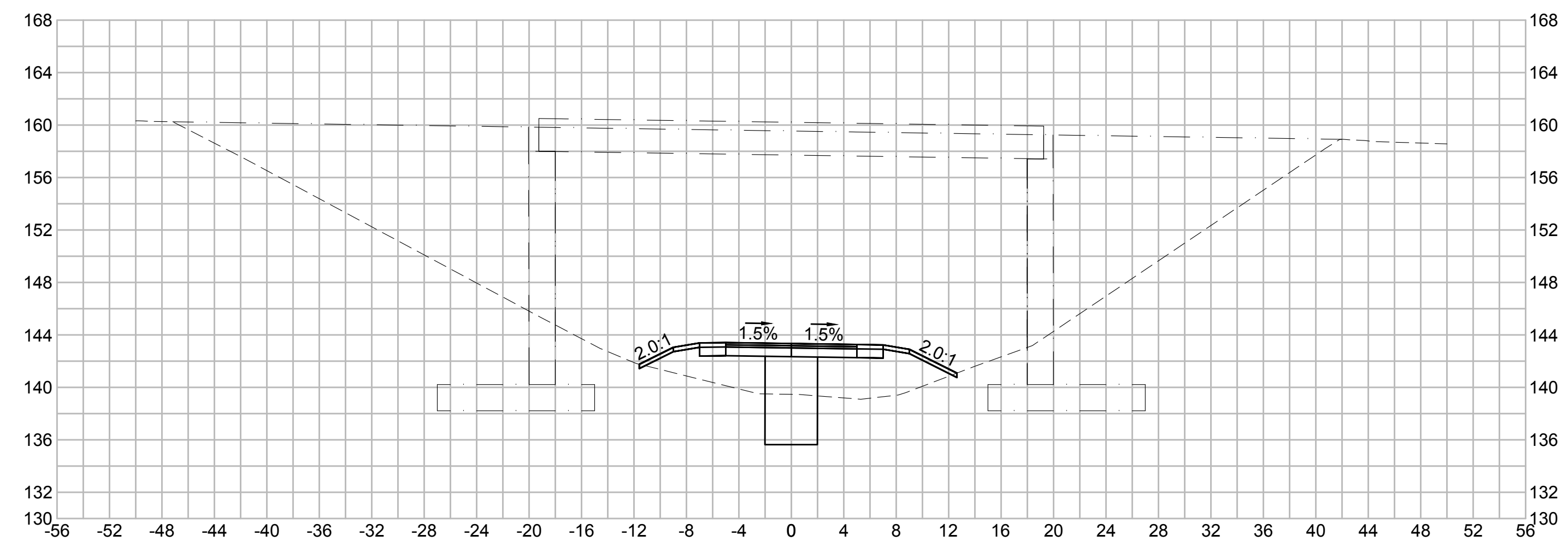
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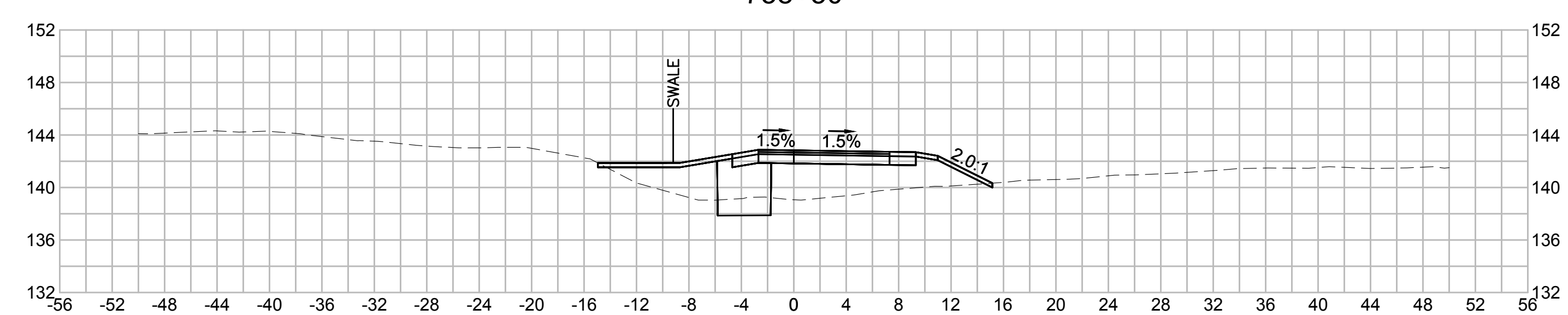
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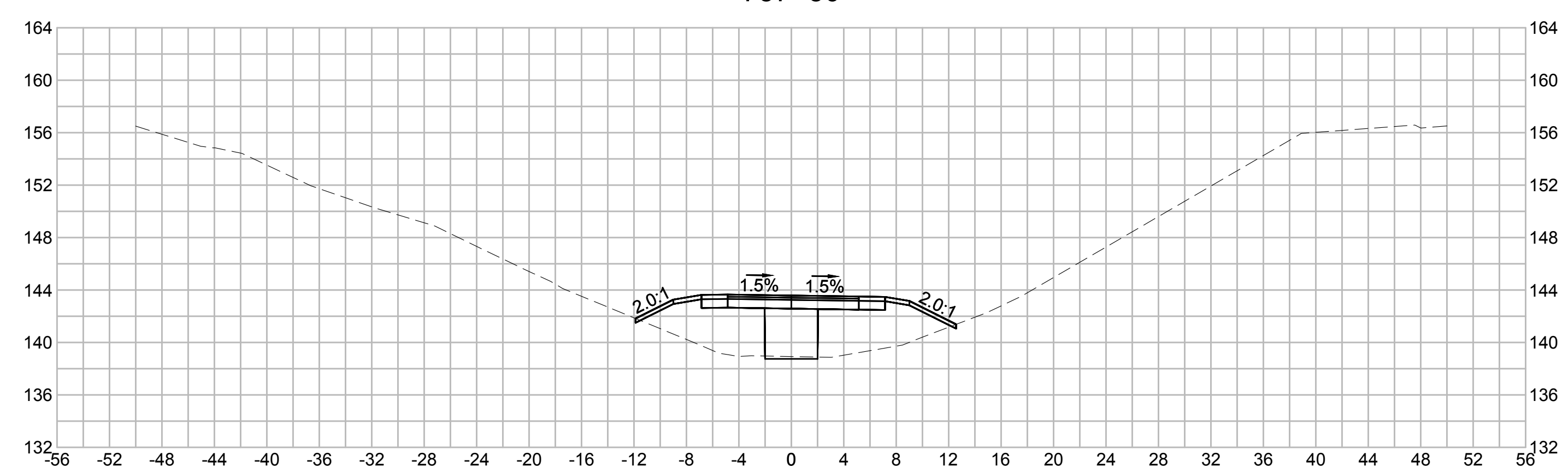
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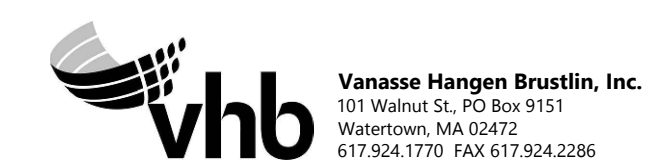
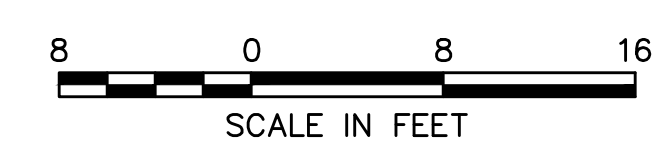
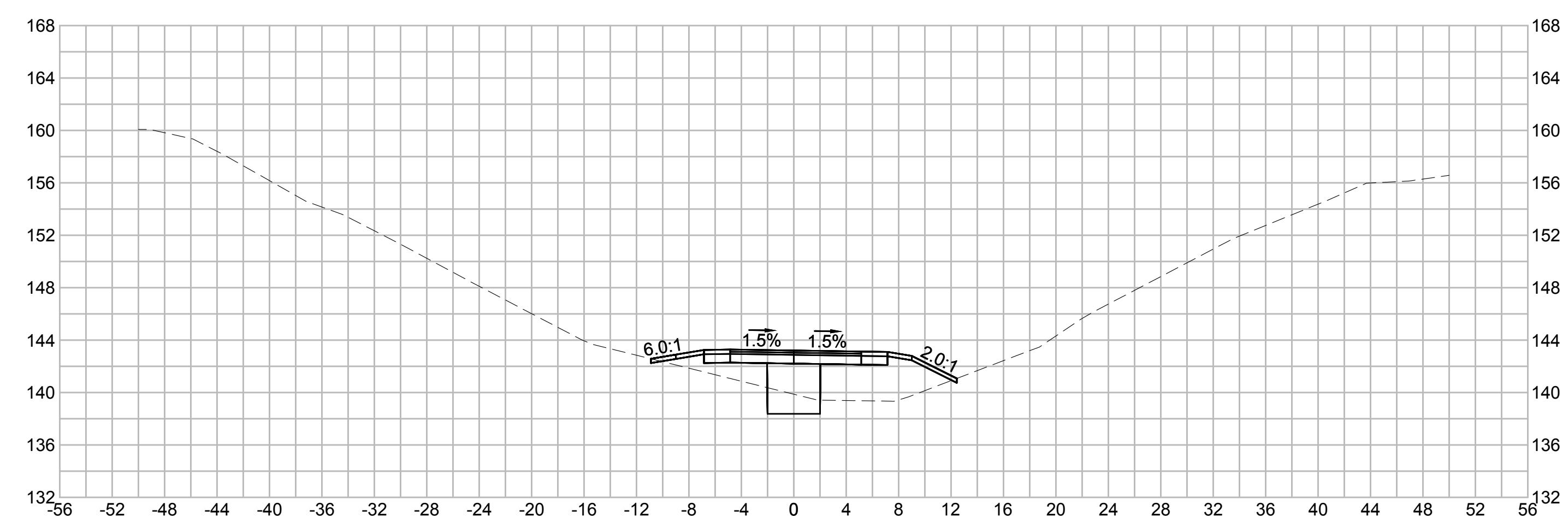
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| NO.   |                   | DESCRIPTION |              | BY           | DATE        | APPR. |
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| REVISION  |                   |             |              |              |             |       |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |             |       |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |             |       |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |             |       |
| CROSS SECTIONS                                    |                   |             |              |              |             |       |
| PLAN 3110F316                                     |                   |             |              |              |             |       |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV.  |

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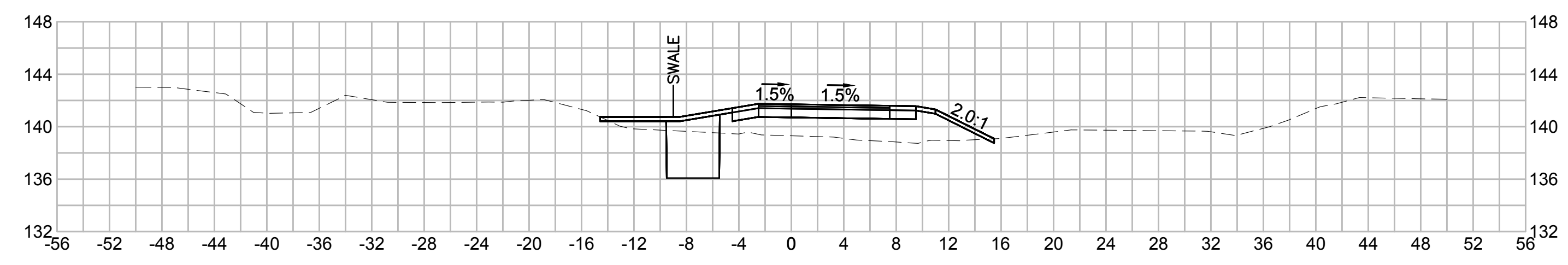
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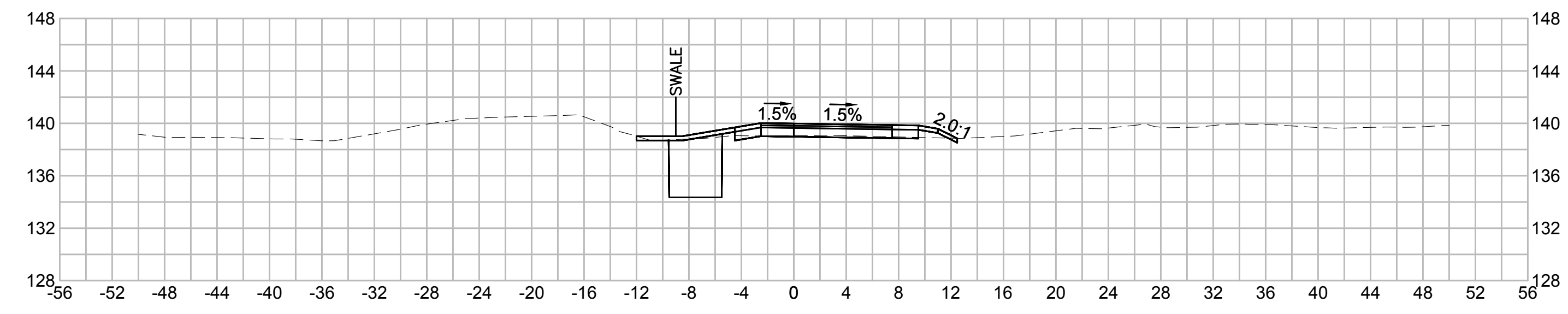
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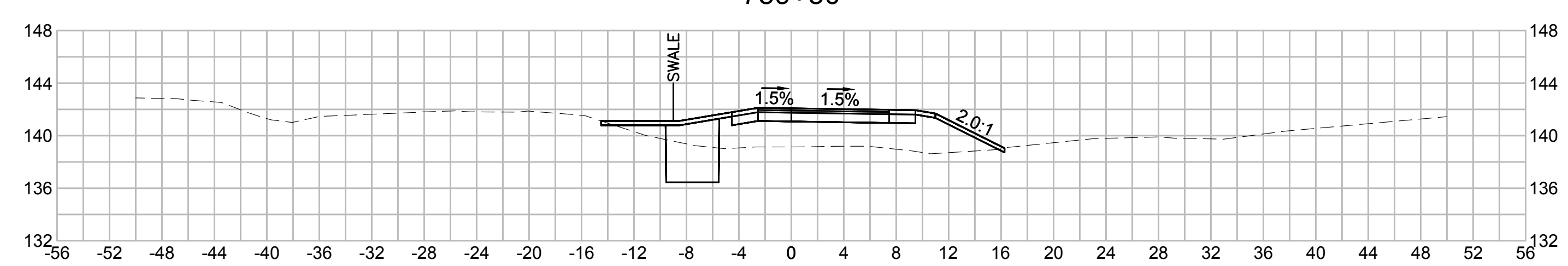
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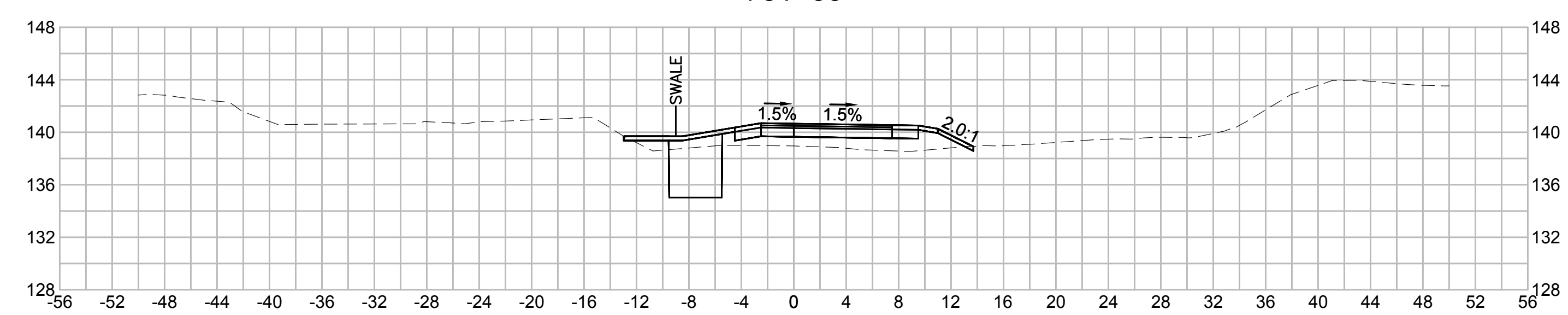
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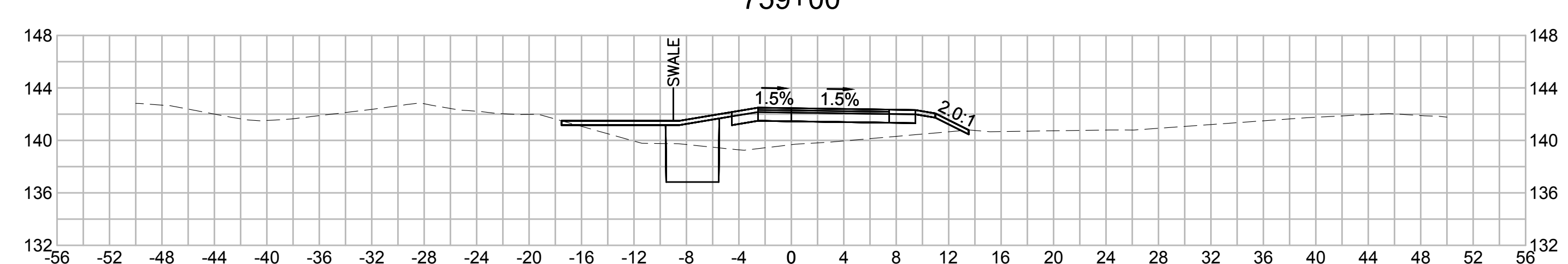
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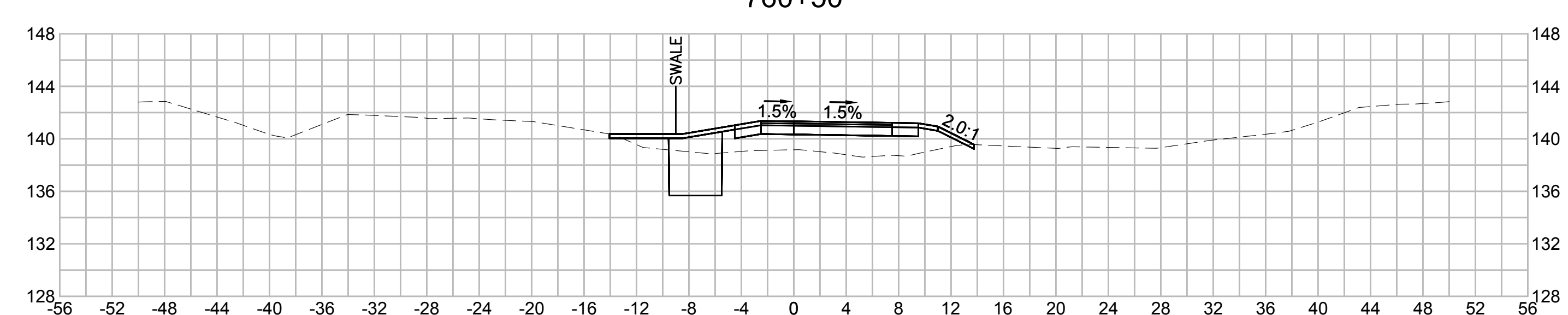
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| N O.  | DESCRIPTION       | BY          | DATE         | APPR.        |
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| REVISION  |                   |             |              |              |
| <b>EVERSOURCE</b>                                 |                   |             |              |              |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |              |              |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |              |              |
| CROSS SECTIONS                                    |                   |             |              |              |
| PLAN 312 OF 316                                   |                   |             |              |              |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES |
| DRAWING NO.                                       | REV.              |             |              |              |

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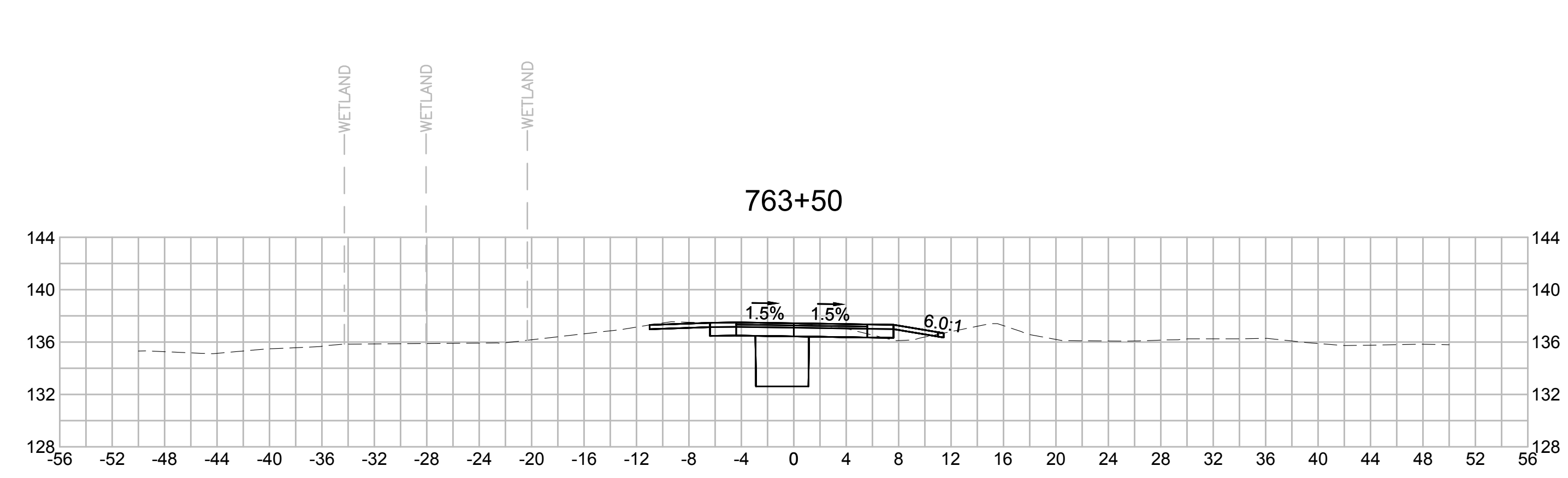
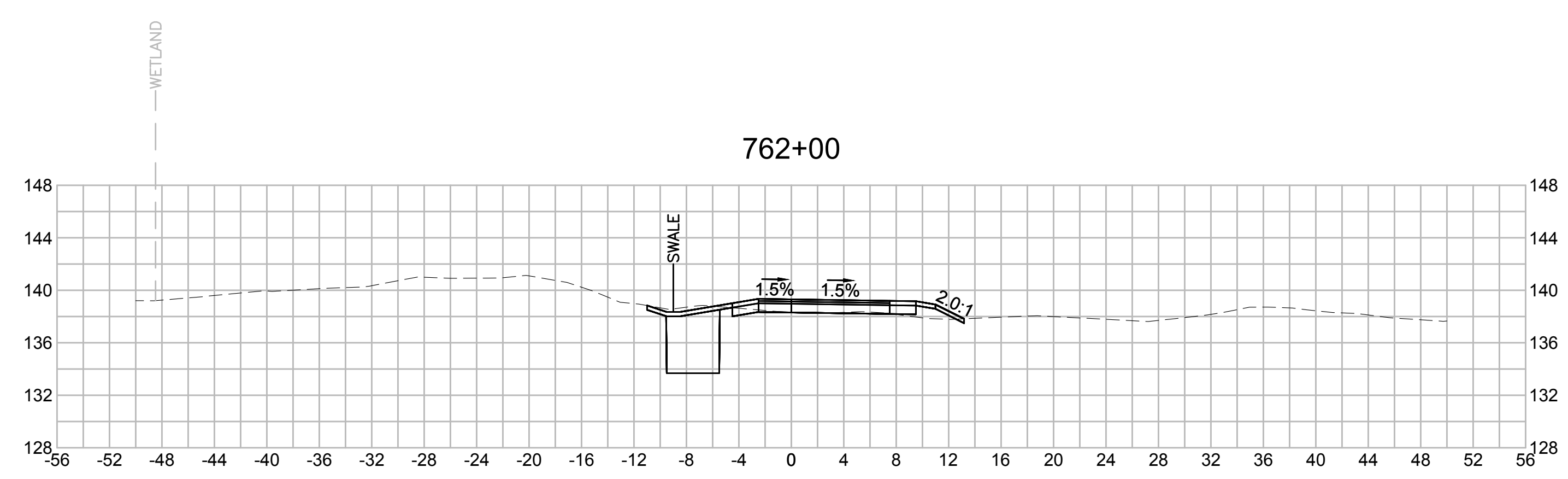
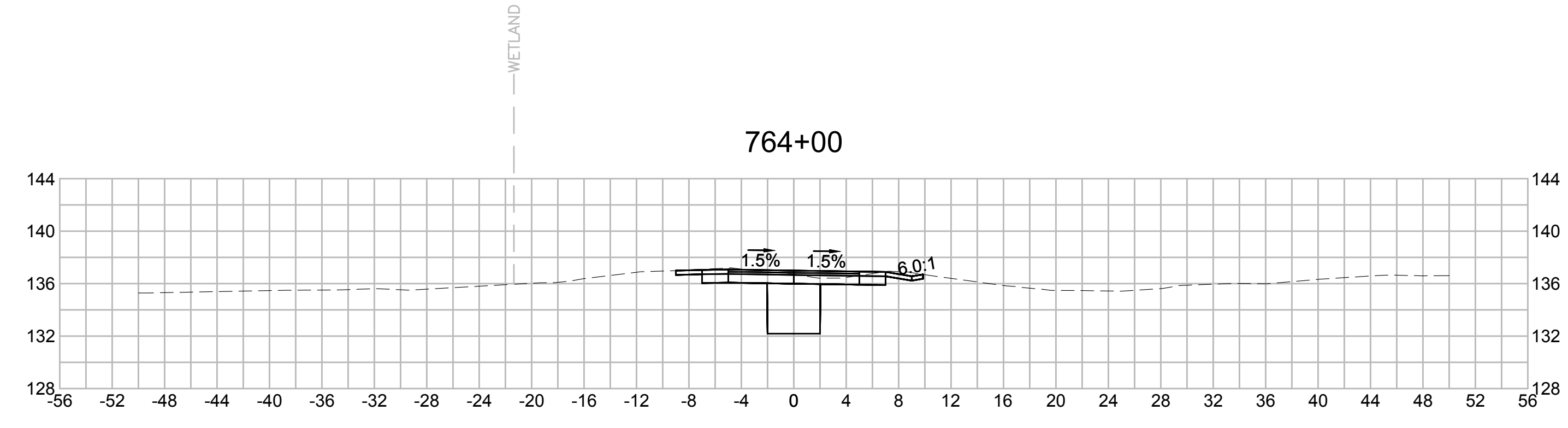
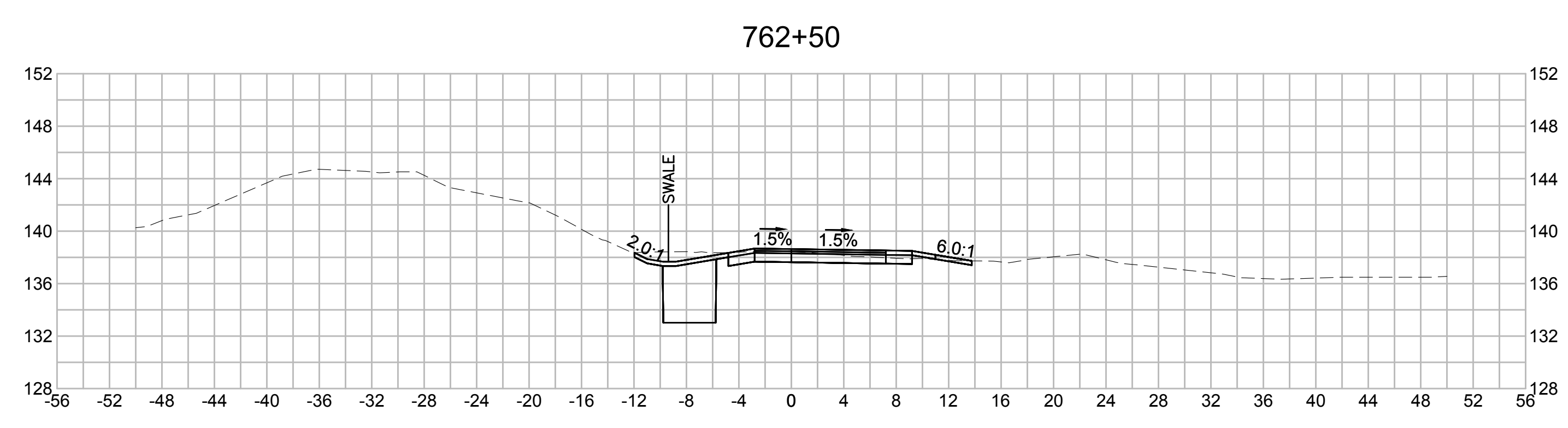
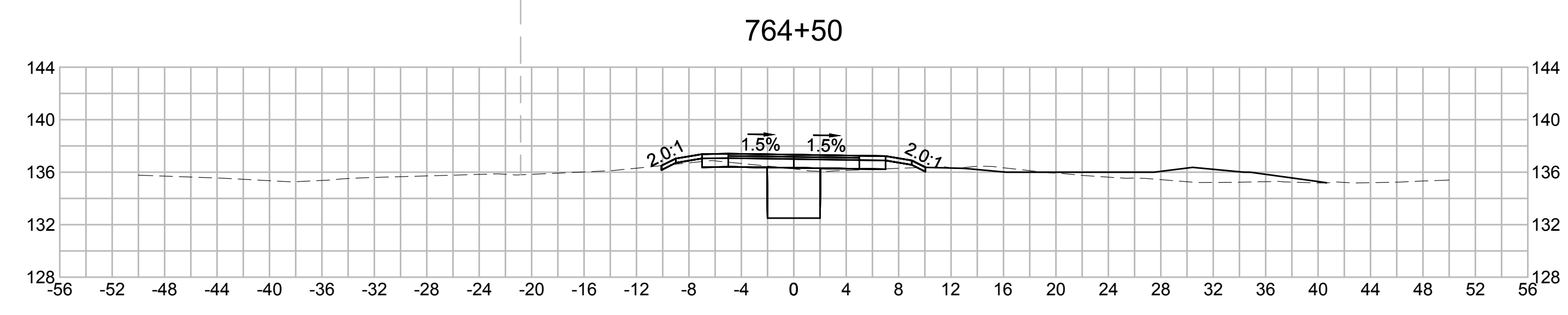
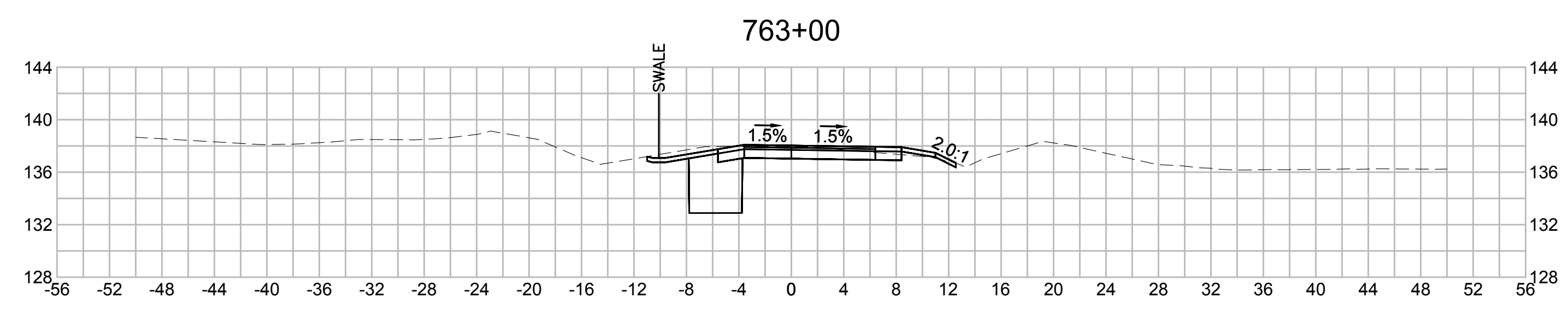
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**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CROSS SECTIONS

PLAN 313 OF 316

|                              |                   |             |              |              |             |      |
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| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | CHK'D.<br>SK | APPR.<br>MES | DRAWING NO. | REV. |
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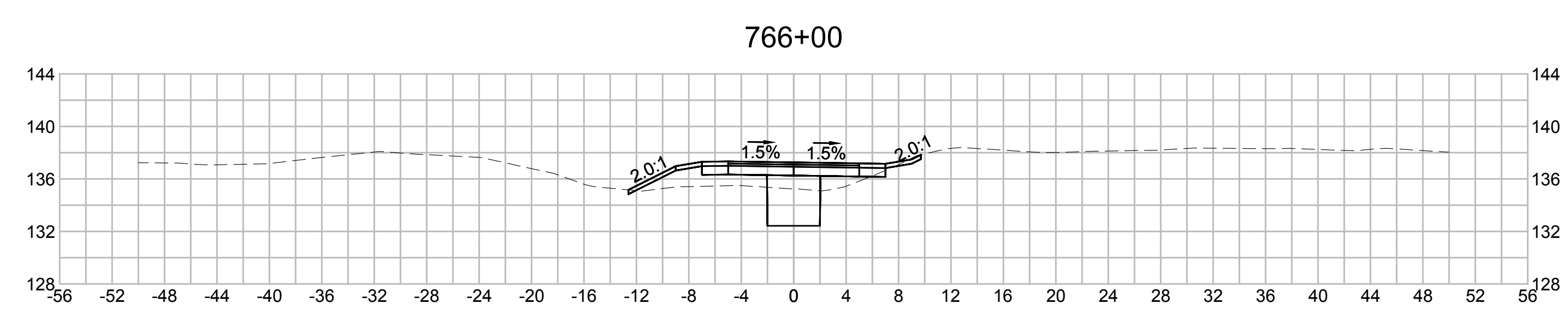
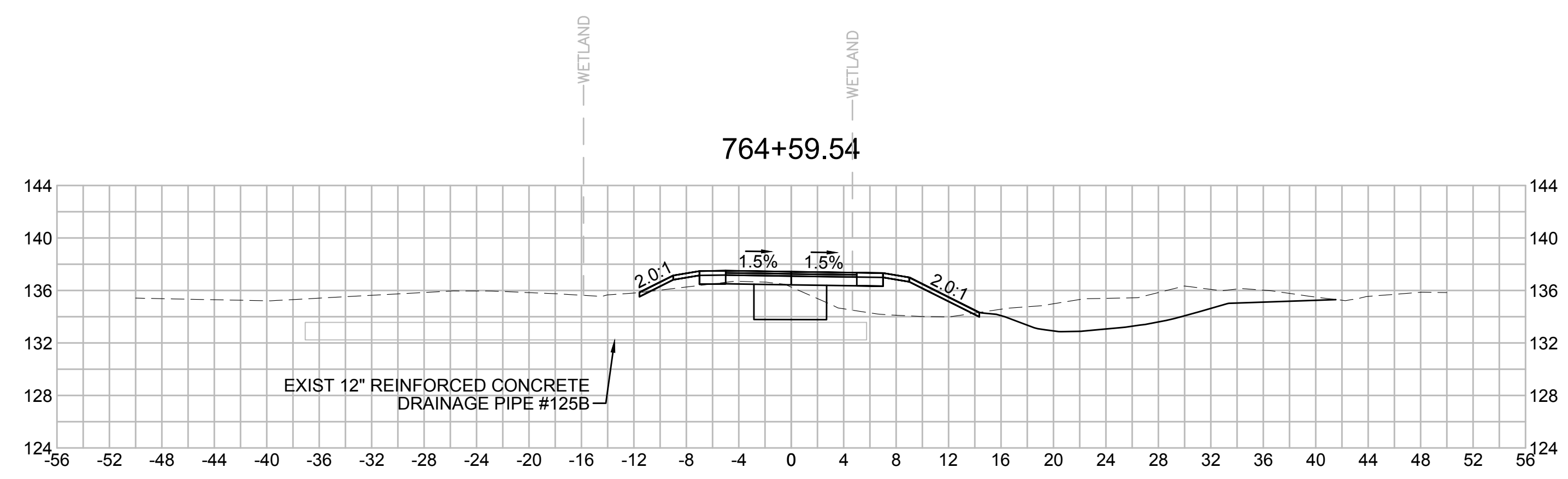
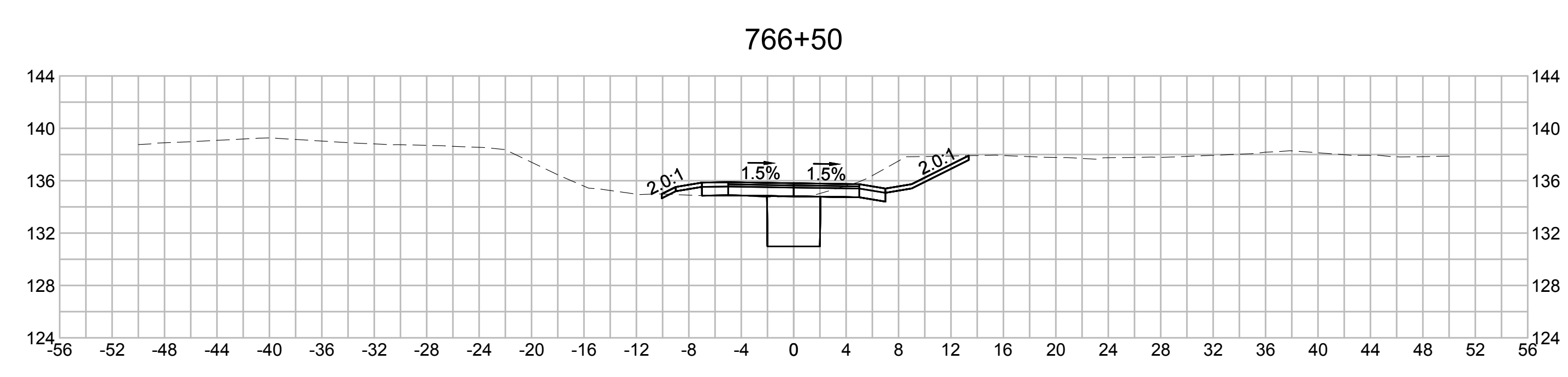
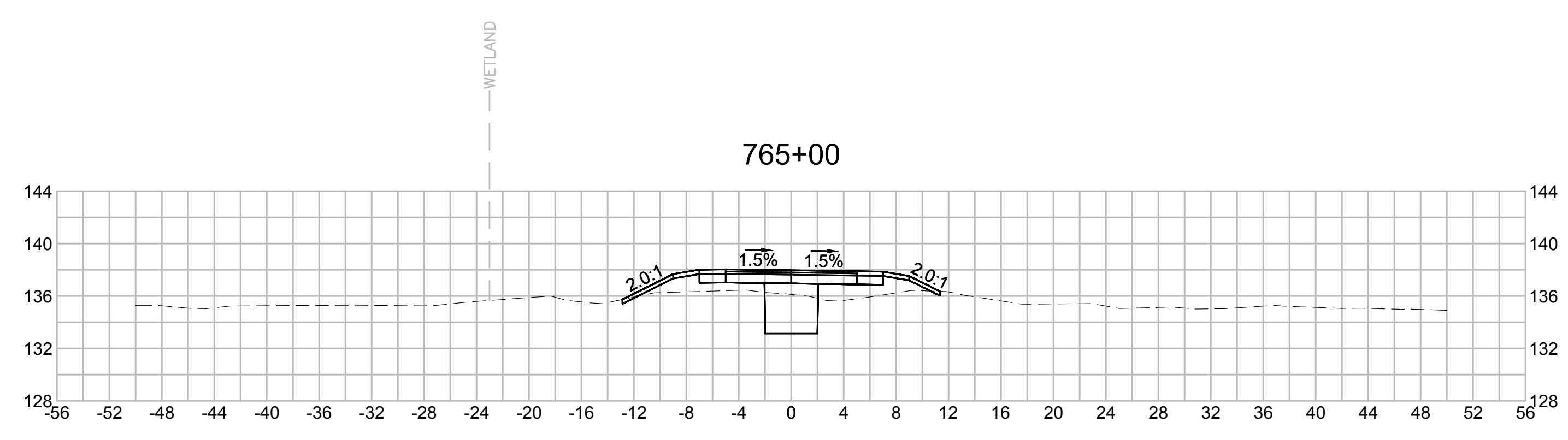
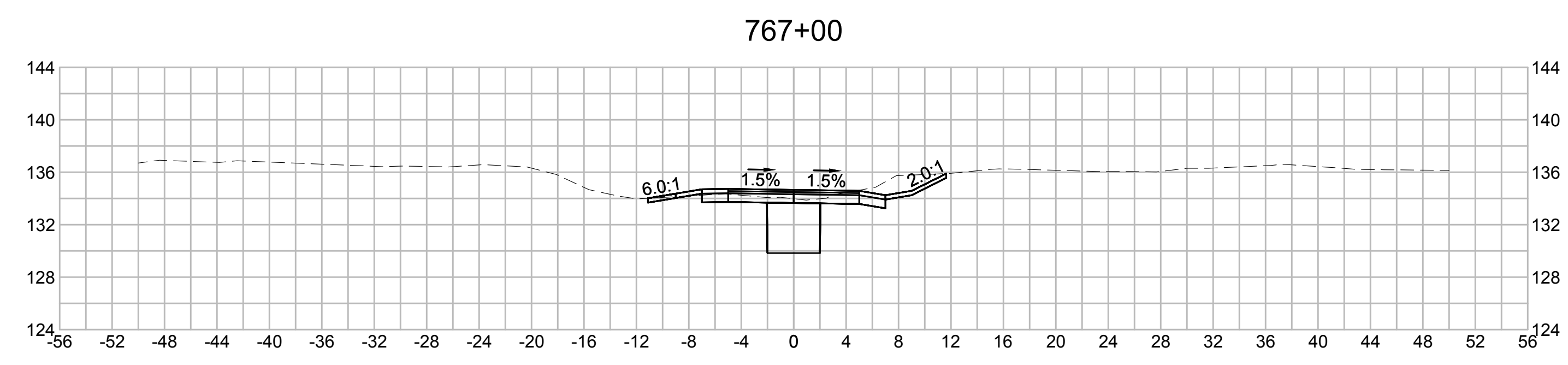
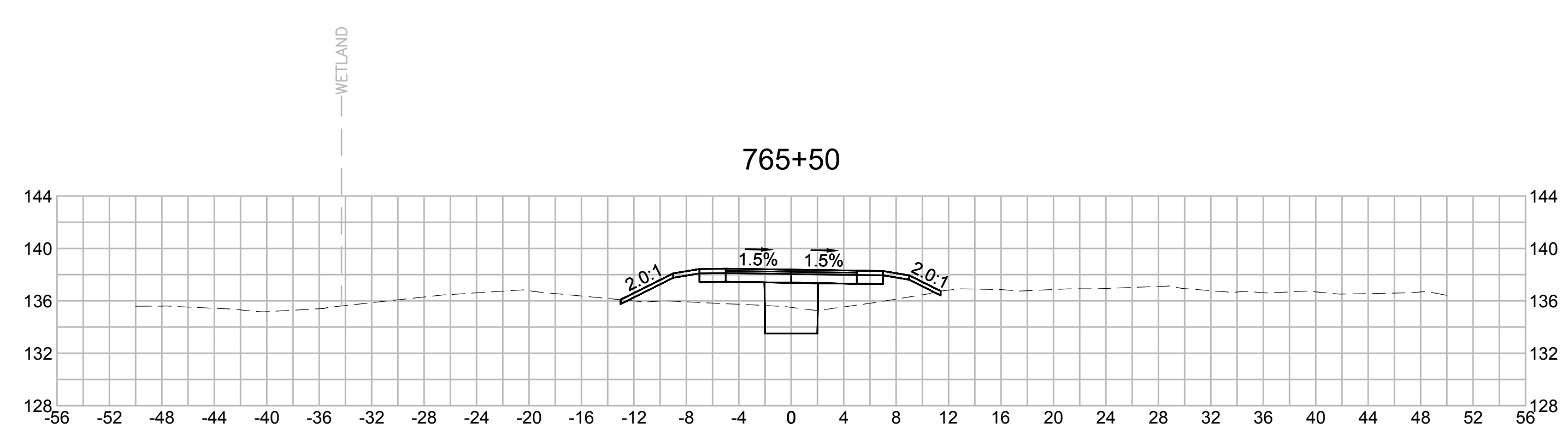
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## EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CROSS SECTIONS

PLAN 314 OF 316

|                              |                   |             |                |              |                     |
|------------------------------|-------------------|-------------|----------------|--------------|---------------------|
| SCALE: unless noted<br>1"=8' | DATE<br>JULY 2020 | DRAWN<br>MS | C'H'K D.<br>SK | APPR.<br>MES | DRAWING NO.<br>REV. |
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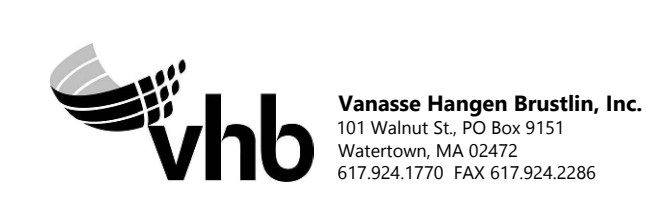
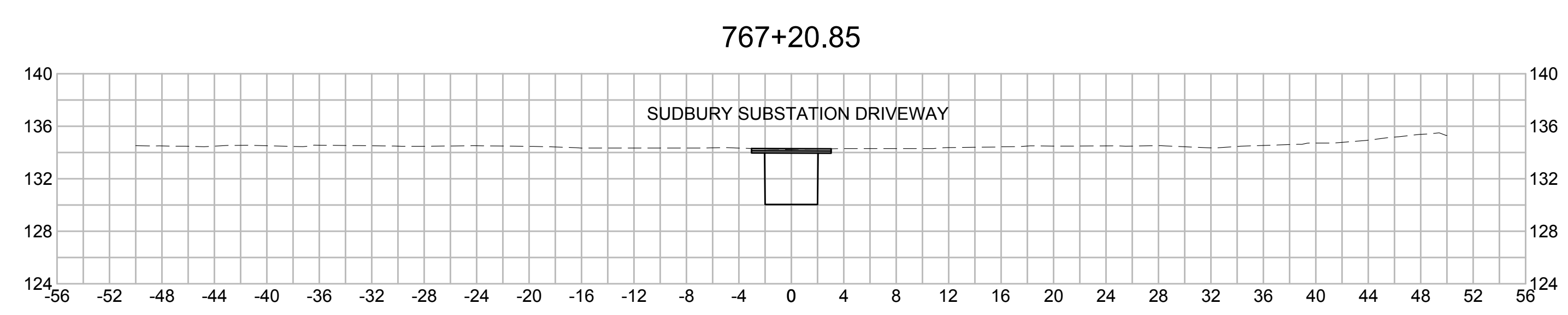
C

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| N O.  | DESCRIPTION       | BY          | DATE          | APPR.       |
|---|-------------------|-------------|---------------|-------------|
| REVISION  |                   |             |               |             |
| <b>EVERSOURCE</b>                                 |                   |             |               |             |
| SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT   |                   |             |               |             |
| HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS |                   |             |               |             |
| CROSS SECTIONS                                    |                   |             |               |             |
| PLAN 315 OF 316                                   |                   |             |               |             |
| SCALE: unless noted<br>1"=8'                      | DATE<br>JULY 2020 | DRAWN<br>MS | CH'K D.<br>SK | APPR.<br>MS |
| DRAWING NO.                                       | REV.              |             |               |             |

1 2 3 4 5 6 7 8 9 10 11