



October 20, 2022

PRINCIPALS

Ms. Lori Capone  
Sudbury Conservation Commission  
275 Old Lancaster Road  
Sudbury, MA 01776

**Subject: Sudbury-Hudson Transmission Reliability Project (DEP File # 301-1287)  
Snow Removal Plan and Request for Minor Change to Equipment Storage  
Condition**

Dear Ms. Capone and Sudbury Conservation Commission Members:

On behalf of NSTAR d/b/a Eversource Energy ("Eversource"), Epsilon Associates, Inc. ("Epsilon") is submitting this letter to provide details regarding the proposed snow removal plan for the Project and to request a minor deviation from existing Permit Condition Part II: Conditions Specific to Phase I, Eversource Underground Transmission Line, Condition ee.

**Equipment Storage (Special Condition: Part II: Conditions Specific To Phase I: Eversource Underground Transmission Line, Item ee)**

This condition states "No spoils of construction, construction material, or equipment shall be stored, placed, or operated in the wetland resource areas or the wetland buffer zone except as may be permitted by this Order for work in the riverfront and upland resource area. These activities may not occur within the bordering vegetated wetland or within bordering land subject to flooding. "

The contractor requests the Commission to allow the feller buncher, which is part of the vegetation removal operation, to be stored overnight within the limits of work only along the segment of the Project from Union Avenue to the Sudbury Substation. This segment of the Project is almost entirely within the 100-foot buffer zone, or the inner riparian zone and this equipment would need to be moved great distances each day to mobilize to and demobilize from the work area to comply with this condition. For the vegetation removal process, the Contractor needs to utilize mats to facilitate movement of their equipment over the existing tracks and to protect the integrity of the existing tracks for efficient removal. Their plan is to have the feller buncher advance on a series of timber mats, placed in a leapfrog fashion as they progress with the vegetation removal. If this equipment has to mobilize to and demobilize from these segments of

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Margaret B Briggs  
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Douglas J Kelleher  
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David E Hewett, LEED AP  
Dwight R Dunk, LPD  
David C Klinch, PWS, PMP  
Maria B Hartnett  
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Marc Bergeron, PWS, CWS

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the Project each day, it will significantly delay the project's construction schedule. To protect adjacent wetlands and waterbodies from any potential unforeseen releases of fluids from the equipment while stored overnight, the Contractor will place secondary containment under the machine at the end of each workday. A picture of the feller buncher with the secondary containment deployed is attached to the email transmission for this letter. We estimate that vegetation removal activities in this segment of the Project if allowed to proceed in this manner, will take approximately two weeks to complete.

### **Snow Removal Plan**

Condition ii, in Part II: Conditions Specific to Phase I: Eversource Underground Transmission Line requires that the Contractor to stockpile snow within the limits of work only or remove it from the site outside of wetlands resource areas.

Based on experience, the Contractor foresees the need to clear snow from the project site (limits of work), during a 2-inch or greater snow event. This type of snow event in a construction zone of this relatively small size will hinder the movement of construction equipment and cause safety concerns and delays to the progress of construction of the Project.

The Contractor is proposing to employ the following methods of snow removal along the Project during a 2-inch or greater snow event. Depending upon the event and the work operations occurring at the time of the event one or more of these techniques could be employed. These techniques are consistent with the Stormwater Management Permit issued by the Sudbury Planning Board.

- Disperse snow outside the limits of work by means of either snow blower attachment or loader bucket with raised skis (approx. 1 inch off the ground) along areas not within the Commission's jurisdiction (i.e., outside of wetland resource areas).
- Stockpile snow at manhole locations within the limits of work within or outside of areas subject to the Commission's jurisdiction. In these instances and due to workspace constraints in the limits of work these stockpiles would typically be limited to approximately 20 feet long and 15 feet wide.
- Stockpile snow outside of limits of work within areas not subject to the Commission's jurisdiction (i.e., outside of wetland resource areas). The approximate size of these piles would be limited to 40 feet long and 40 feet wide. Silt fence would be placed and maintained around these snow stockpiles until melt is complete in the spring.

- Snow will be loaded and hauled to a stockpile location at a facility away from the project area. This could occur within or outside of areas subject to the Commission's jurisdiction.

Thank you for your consideration of our request and please do not hesitate to contact me at 508-212-0420 or via email at [mbergeron@epsilonassociates.com](mailto:mbergeron@epsilonassociates.com) if you have any questions related to this submission. I look forward to discussing these topics with the Commission at the October 31, 2022, Conservation Commission meeting.

Sincerely,



Marc Bergeron, PWS, NHCWS  
Project Manager/Principal

Cc: Denise Bartone, Eversource  
Rebecca Weissman, SWCA  
Michael Hager, Eversource  
Matt Devlin, Eversource



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QUADCO

CAUTION

KEEP CLEAR  
250 FEET MINIMUM

TL  
745C



## Attachment D

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Project Plans

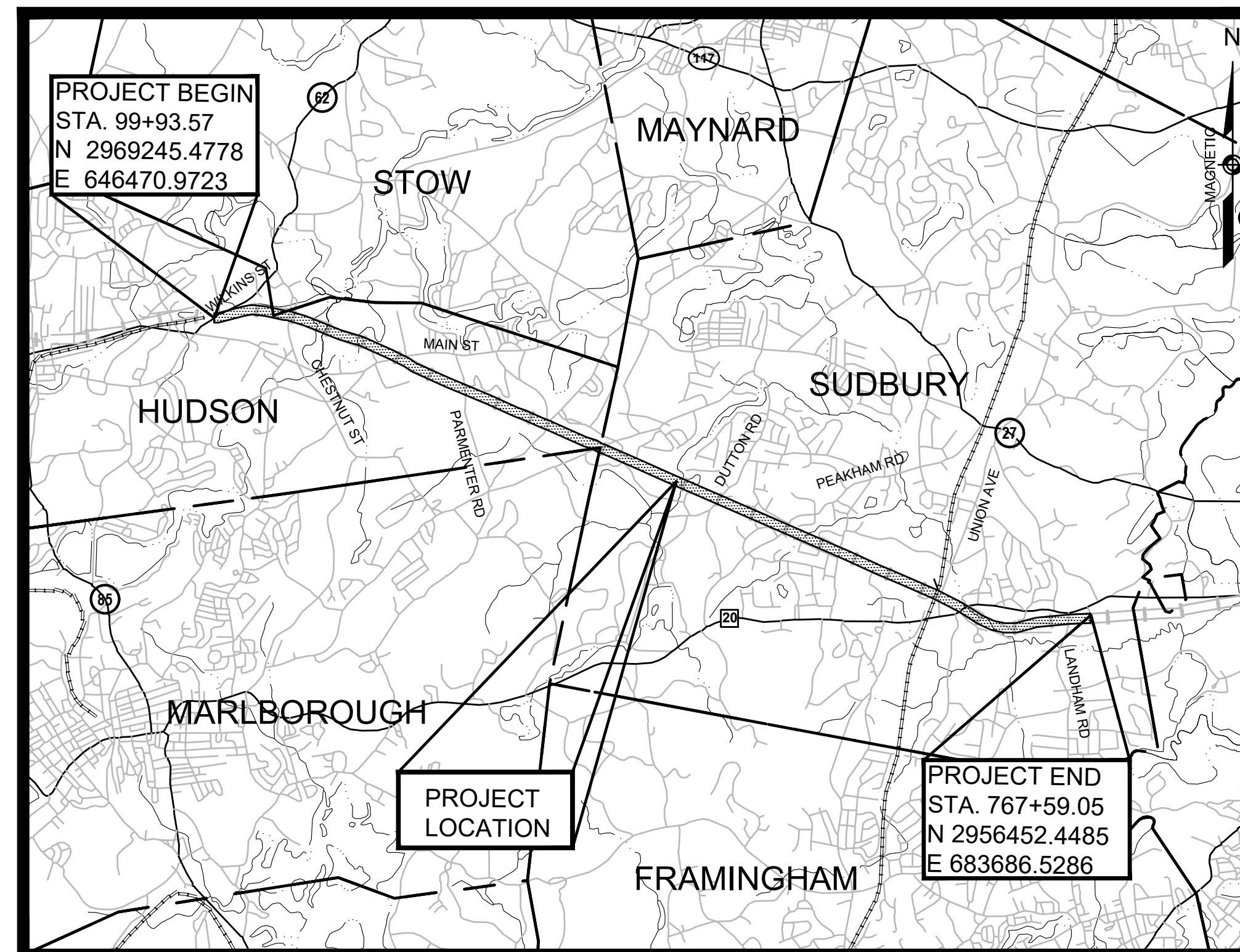


# EVERSOURCE

## SUDBURY-HUDSON

### TRANSMISSION RELIABILITY PROJECT

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**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.

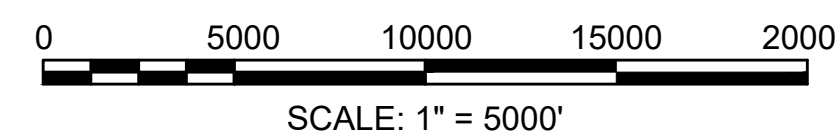
JOSHUA C. CONE-RODDY  
 CIVIL  
 No. 54514  
 REGISTERED PROFESSIONAL ENGINEER  
*Joshua Cone-Roddy* 12-20-2021  
 ENGINEER DATE

MARK A. COSTA  
 CIVIL  
 No. 49941  
 REGISTERED PROFESSIONAL ENGINEER  
*Mark Costa* 12/21/2021  
 ENGINEER SHEETS 167-168 DATE

SHANTA B. KELLER  
 STRUCTURAL  
 No. 51381  
 REGISTERED PROFESSIONAL ENGINEER  
*Shanta B. Keller* 12/20/21  
 ENGINEER SHEETS 164-166, 169-201 DATE



VANASSE HANGEN BRUSTLIN, INC.  
 WATERTOWN, MASSACHUSETTS



REVISION			
N.O.	DESCRIPTION	BY	DATE
1	HISTORIC FEATURE DISPOSITIONS		02/03/2022

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 TITLE SHEET & INDEX

PLAN 1 OF 349

SCALE: unless noted 1"=5000'	DATE DEC 2021	DRAWN MS	CHK'D. SK	A.P.P.R. MS	DRAWING NO. 11	REV. .
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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 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 CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO 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 A PROVIDED ON DETAIL SHEET 161 UNLESS NOTED OTHERWISE.
						17.	JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACKSANDS.
						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 450' OF VERNAL POOLS 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.
						28.	ALL HISTORIC RAILROAD FEATURES LOCATED WITHIN THE LIMIT OF WORK AND OUTSIDE THE LIMITS OF THE 14' GRAVEL SUB-BASE SHALL BE RETAINED AND PROTECTED UNLESS OTHERWISE NOTED. CONSTRUCTION FENCING AND SIGNAGE SHALL BE INSTALLED AROUND THE FEATURE IN CONSULTATION WITH THE CULTURAL RESOURCES CONSULTANT. 24 HOURS ADVANCED NOTICE SHALL BE GIVEN TO THE CULTURAL RESOURCES CONSULTANT BEFORE ANY CONSTRUCTION WITHIN THE IMMEDIATE VICINITY OF THE FEATURE OCCURS. IF IT IS NOT POSSIBLE TO RETAIN THE FEATURE, IT SHALL BE CAREFULLY REMOVED AND RESET AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION. THE REMOVAL AND RESETTING OF ANY HISTORIC RAILROAD FEATURE SHALL ONLY BE DONE WITH CONSULTATION OF THE CULTURAL RESOURCES CONSULTANT.

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HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE

**EVERSOURCE**

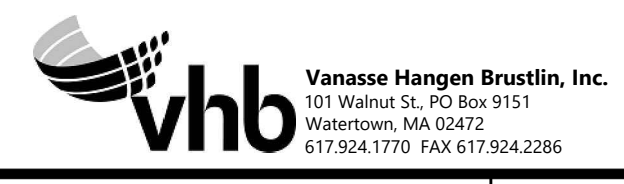
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT

HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS

LEGEND, ABBREVIATIONS, & GENERAL NOTES

PLAN 2 OF 349

SCALE: unless noted	D A T E	D R A W N	C H K'D	A P P R.	DRAWING NO.	REV.
NTS	DEC 2021	MS	SK	MS		

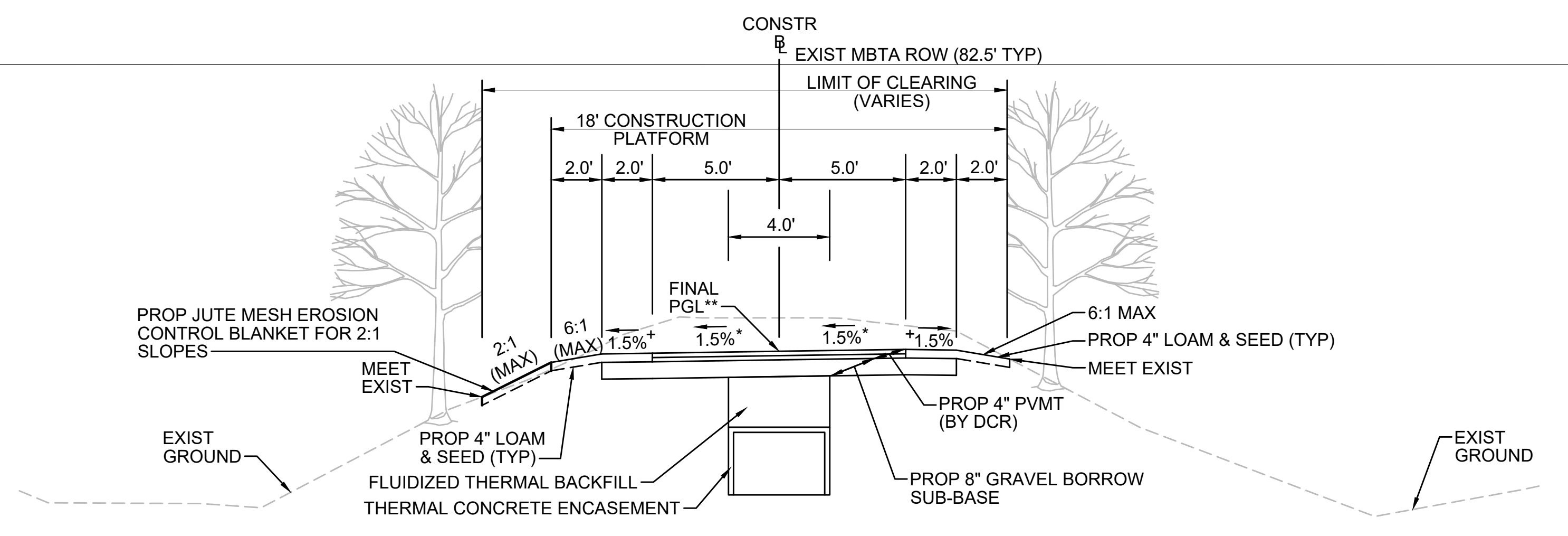


Vannase Hangan Brustlin, Inc.  
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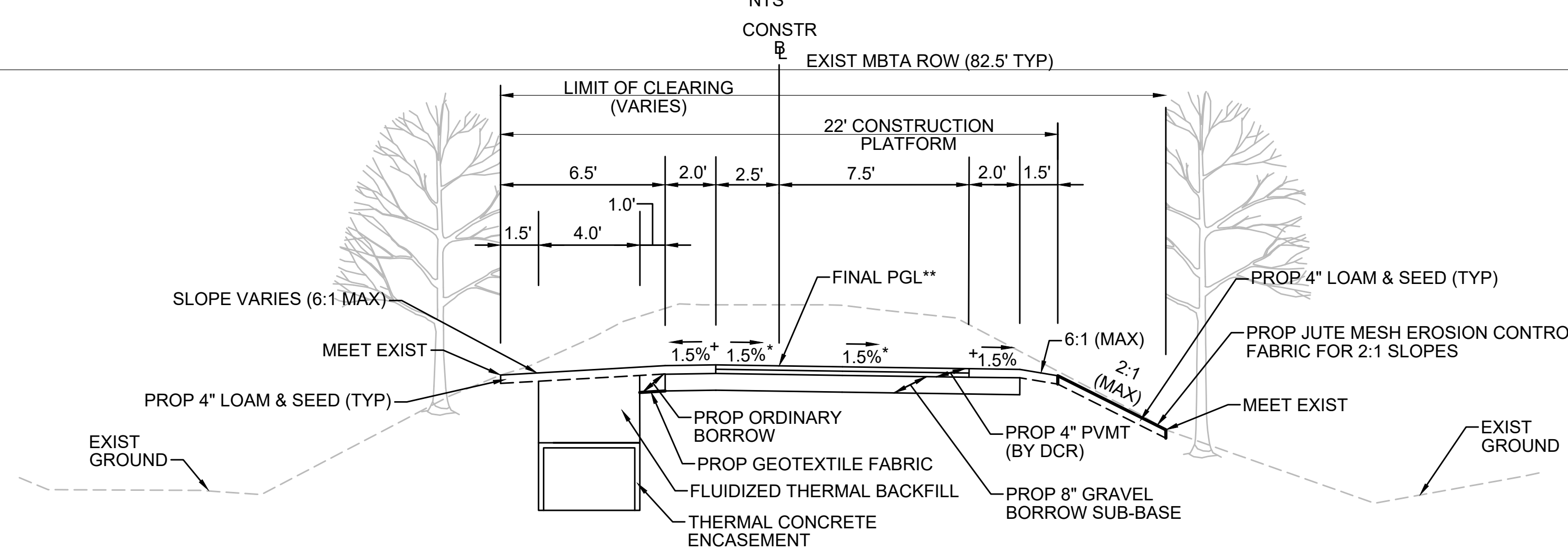


\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID 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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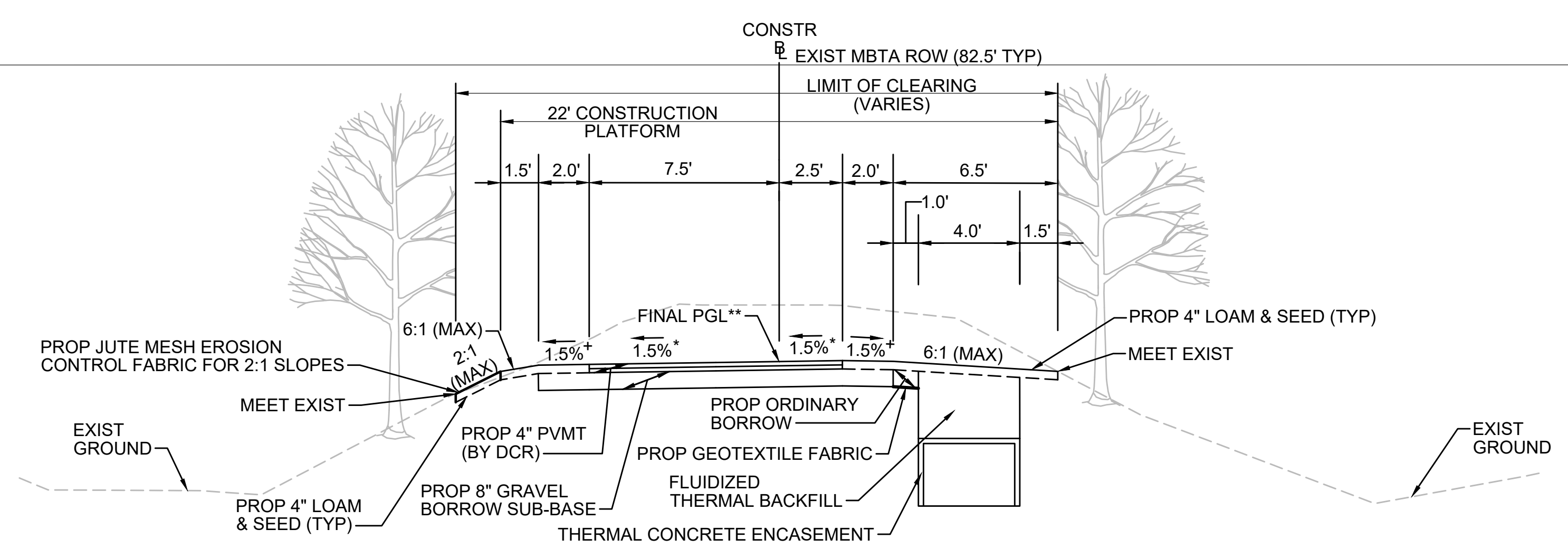


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**TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE ON LEFT**

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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 \*\* 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 157 FOR ADDITIONAL INFORMATION.  
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 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±  
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N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 14 OF 349				
SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D. SK	APPR. MES
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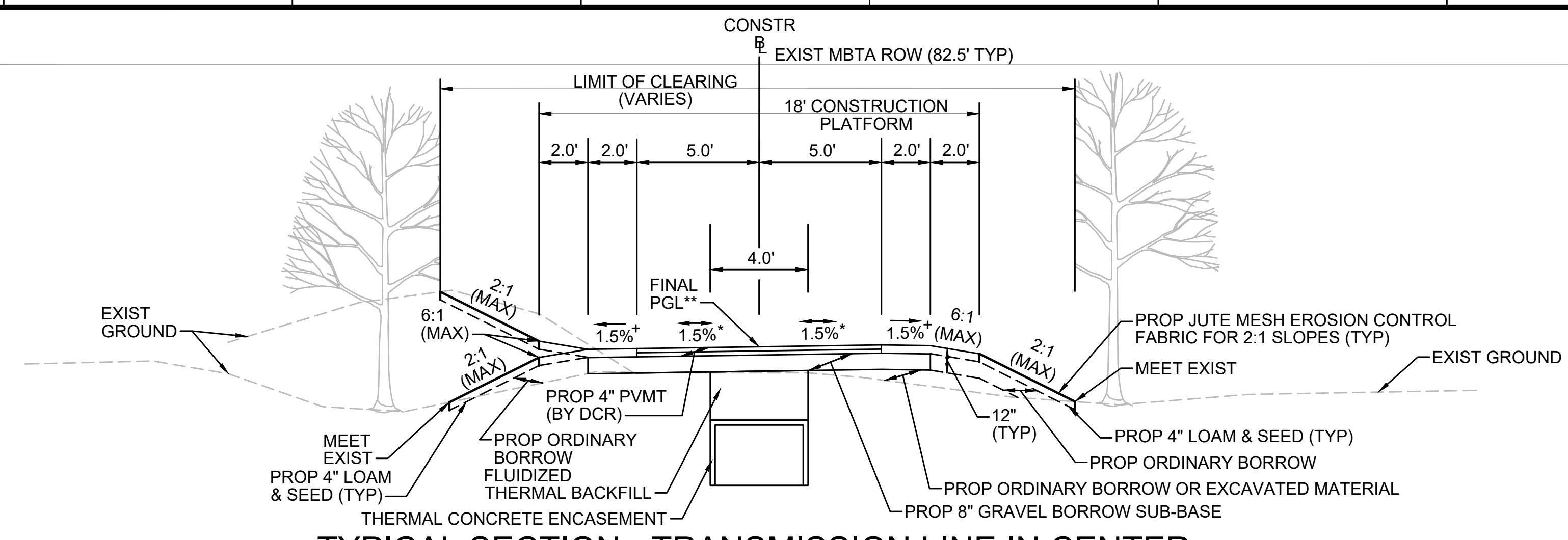
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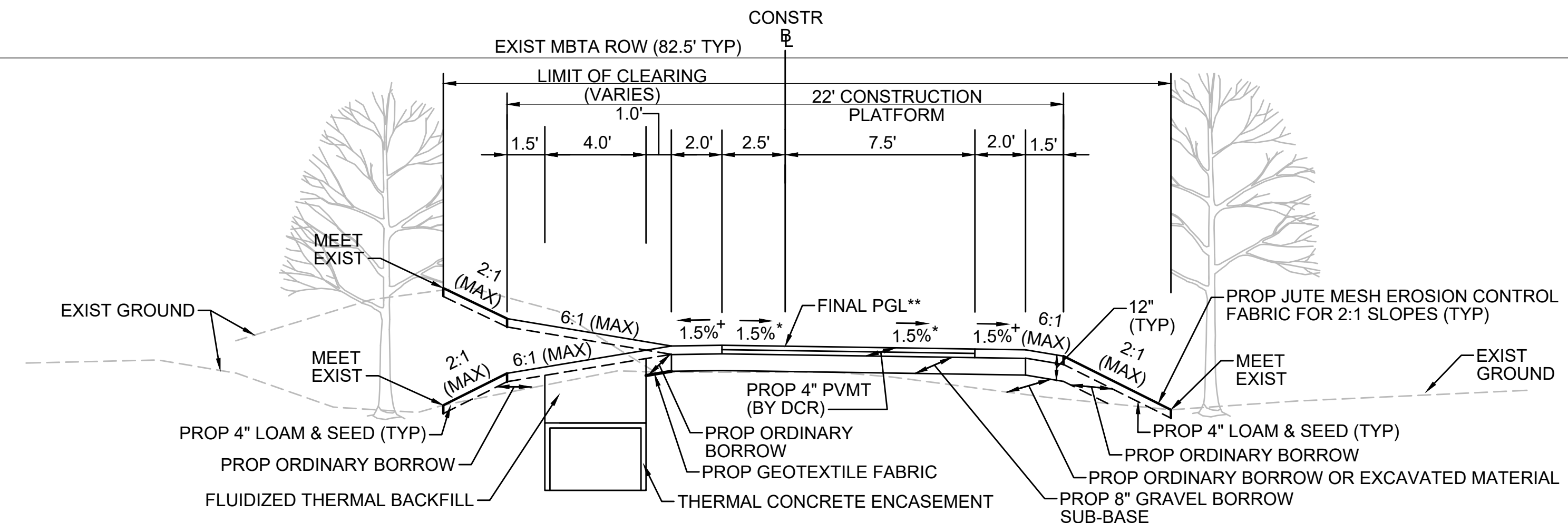
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**TYPICAL SECTION - TRANSMISSION LINE IN CENTER**

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

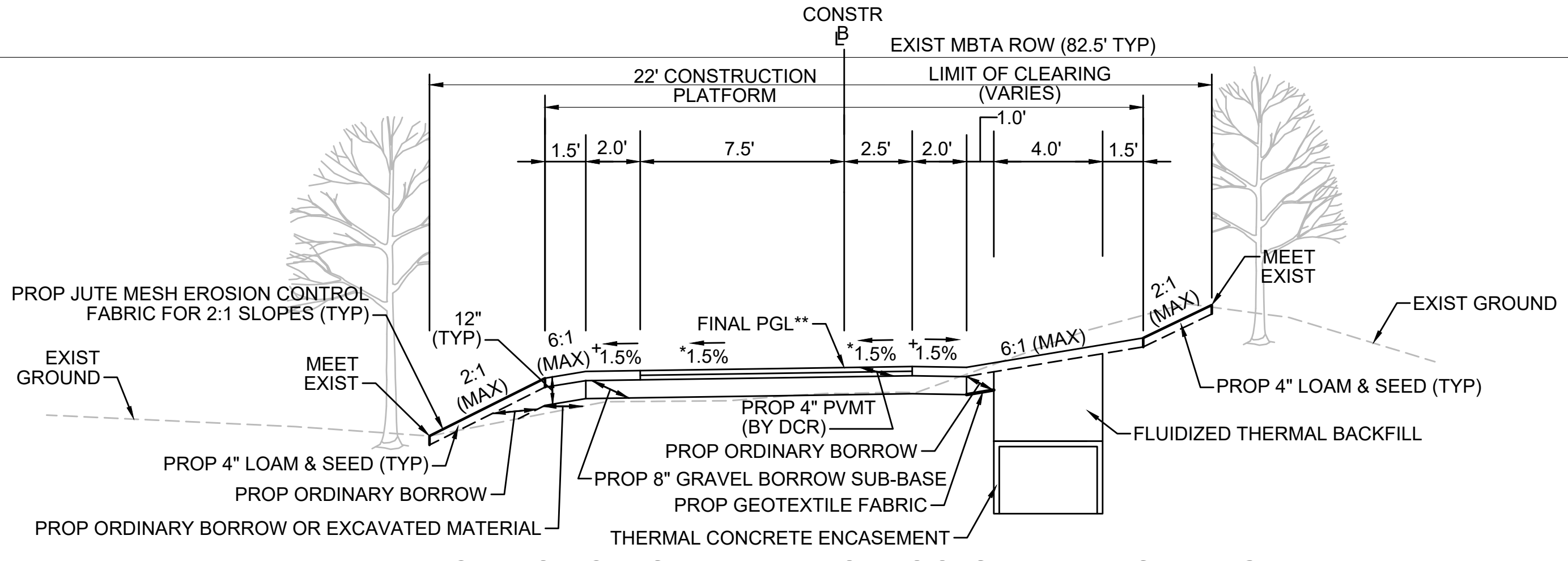
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+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
SEE CROSS SECTIONS FOR MORE INFORMATION



**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±  
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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 157 FOR ADDITIONAL INFORMATION.  
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SEE CROSS SECTIONS FOR MORE INFORMATION




**TYPICAL SECTION - TRANSMISSION LINE ON RIGHT**

STA 100+31.46± TO STA 101+00±  
NTS

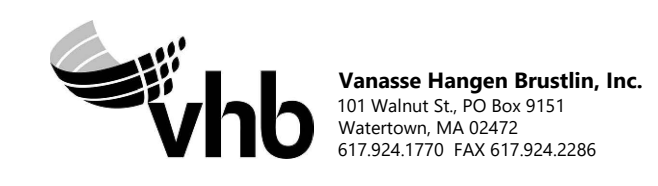
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REVISION			
NO.	DESCRIPTION	BY	DATE



**SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT**  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 15 OF 349

SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D. SK	APP'R. MES	DRAWING NO.	REV.
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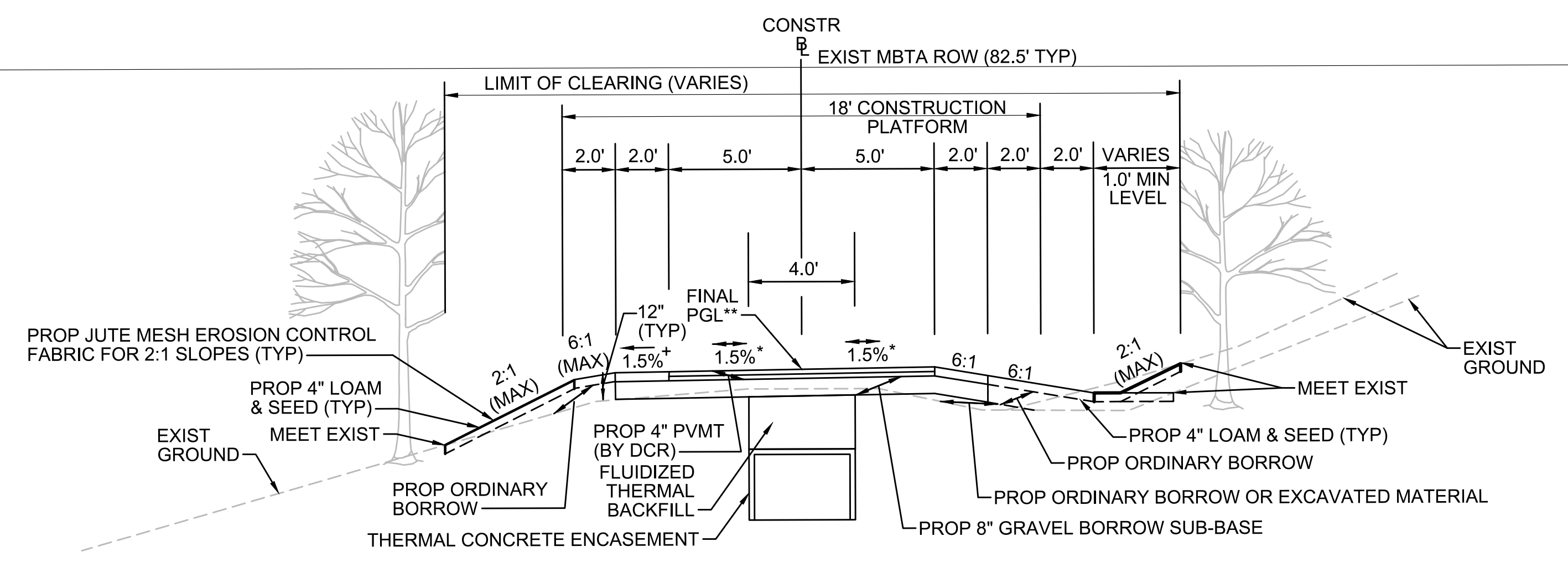
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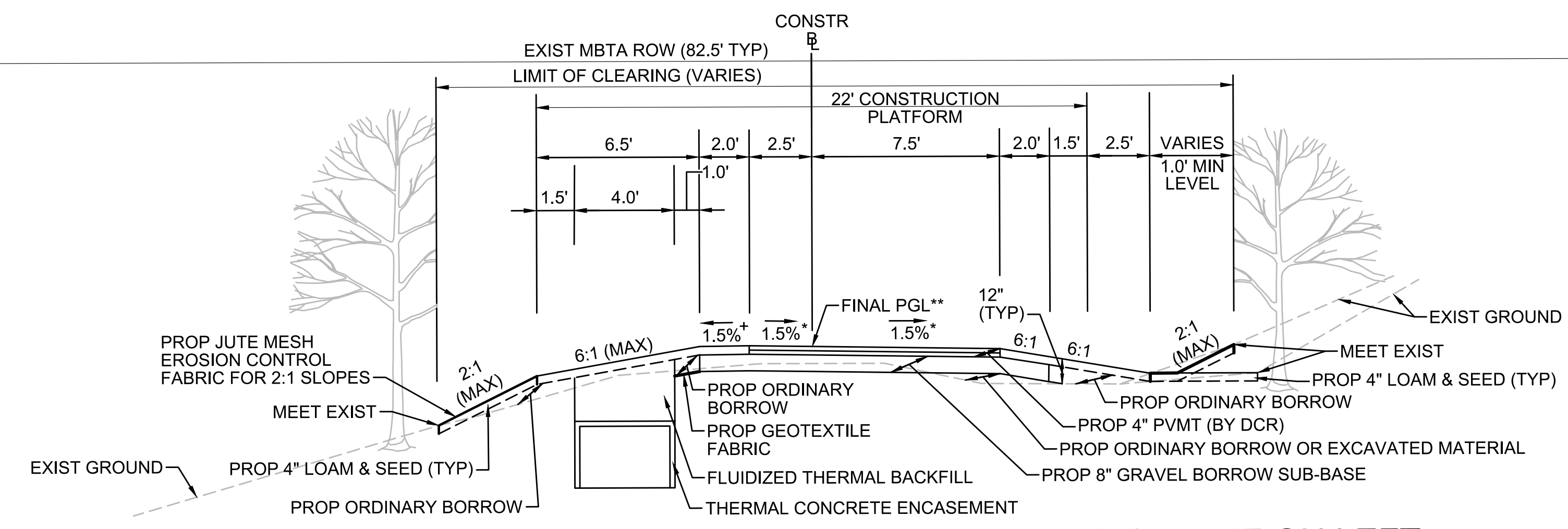
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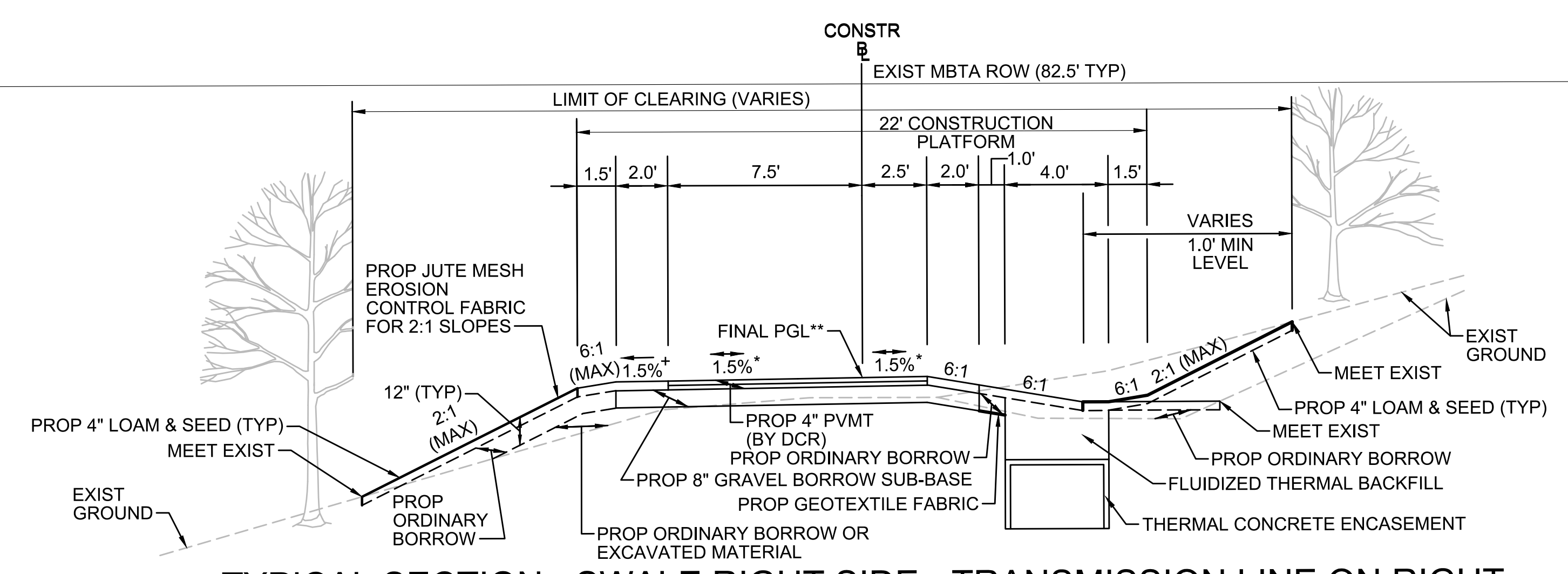
**TYPICAL SECTION - SWALE RIGHT SIDE - TRANSMISSION LINE IN CENTER**

STA 113+00± TO STA 118+50±, STA 121+50± TO STA 126+25±  
NTS



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

STA 134+25± TO STA 134+75±, STA 175+00± TO STA 175+50±, STA 304+00± TO STA 305+50±, STA 350+25± TO STA 350+50±,  
STA 360+25± TO STA 362+50±, STA 405+00± TO STA 407+50±, STA 500+21± TO STA 500+25±, STA 512+50± TO STA 513+25±,  
STA 533+48± TO STA 533+75±, STA 565+00± TO STA 569+00±, STA 579+00± TO STA 586+75±,  
STA 587+25± TO STA 588+25±, STA 721+25± TO STA 722+25±  
NTS



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

STA 118+50± TO STA 120+75±, STA 121+25± TO STA 121+50±, STA 126+25± TO STA 128+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 157 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 157 FOR ADDITIONAL INFORMATION.
- + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
- SEE CROSS SECTIONS FOR MORE INFORMATION

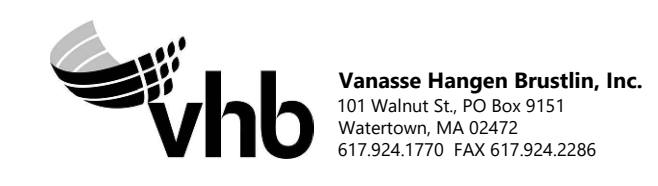
- \* TOLERANCE FOR CONSTRUCTION ±0.5%
- \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
- + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES
- SEE CROSS SECTIONS FOR MORE INFORMATION

NO.	DESCRIPTION	BY	DATE	APPR.
REVISION				

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 16 OF 349

SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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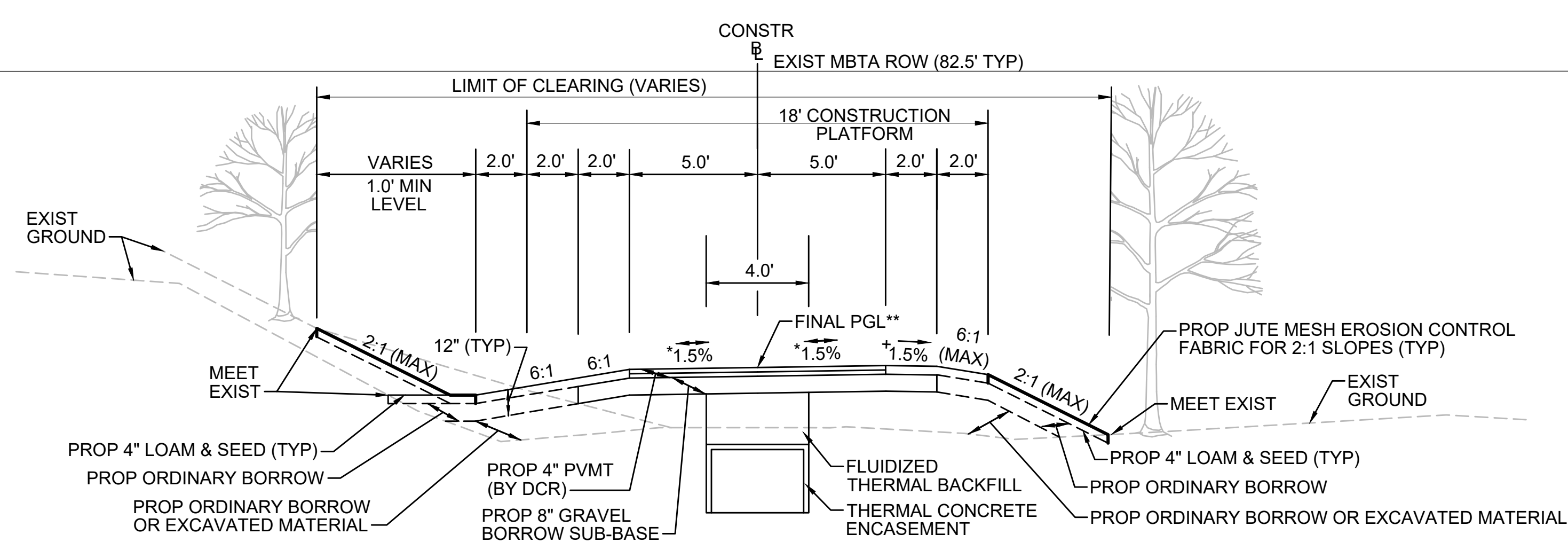


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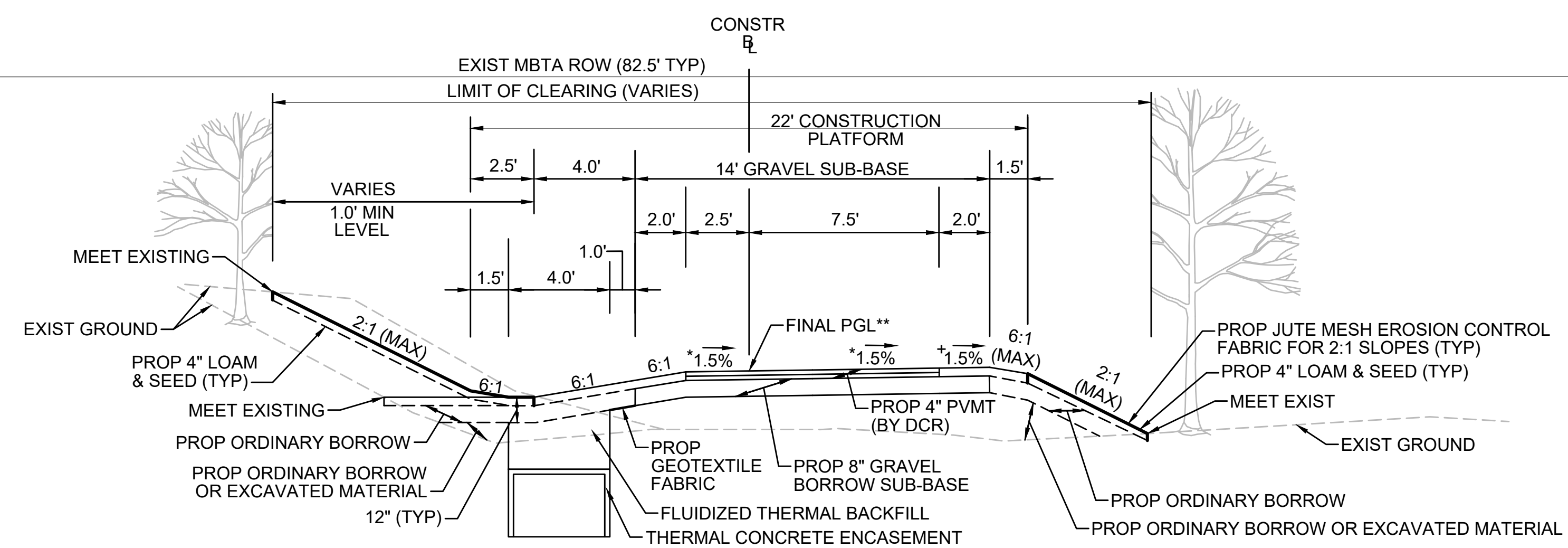
**TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE IN CENTER**

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 157 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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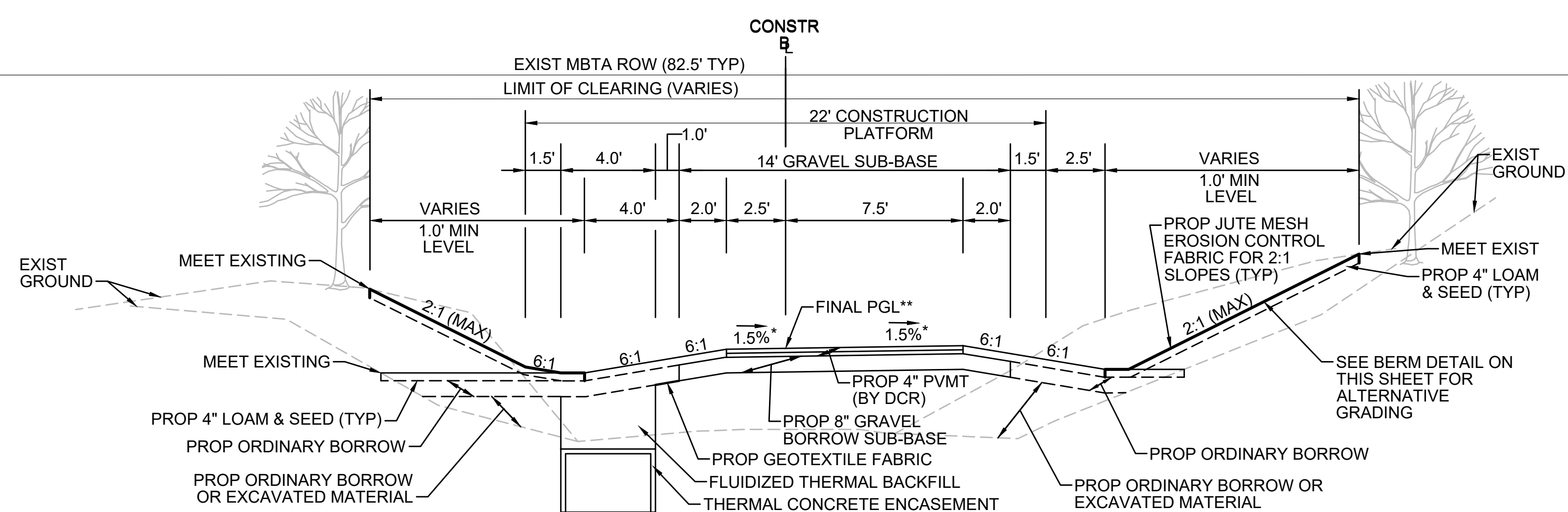
**TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE ON LEFT**

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+50± 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 157 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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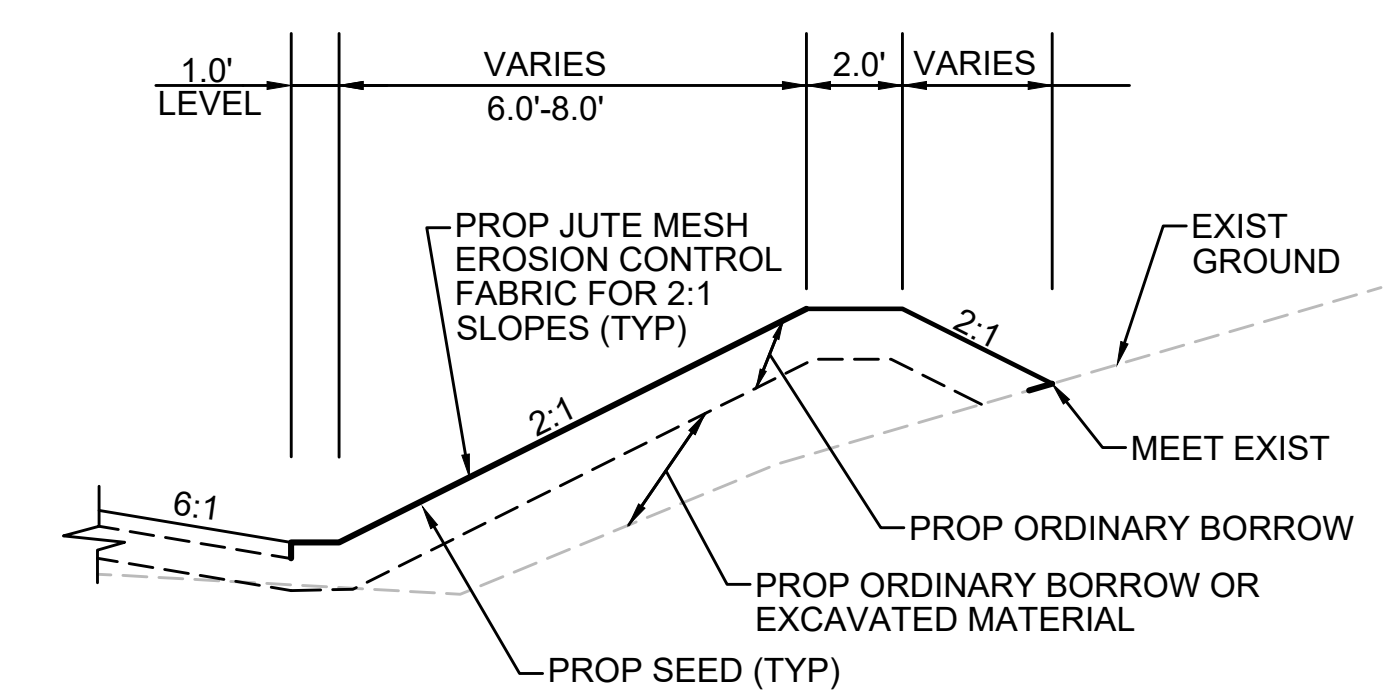
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**TYPICAL SECTION - SWALE BOTH SIDES - TRANSMISSION LINE ON LEFT**

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+50±, 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 157 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION



**BERM DETAIL**  
STA 394+50 TO STA 395+50



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TYPICAL SECTIONS					
PLAN 17 OF 349					
SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D SK	APPR. MES	DRAWING NO. REV.

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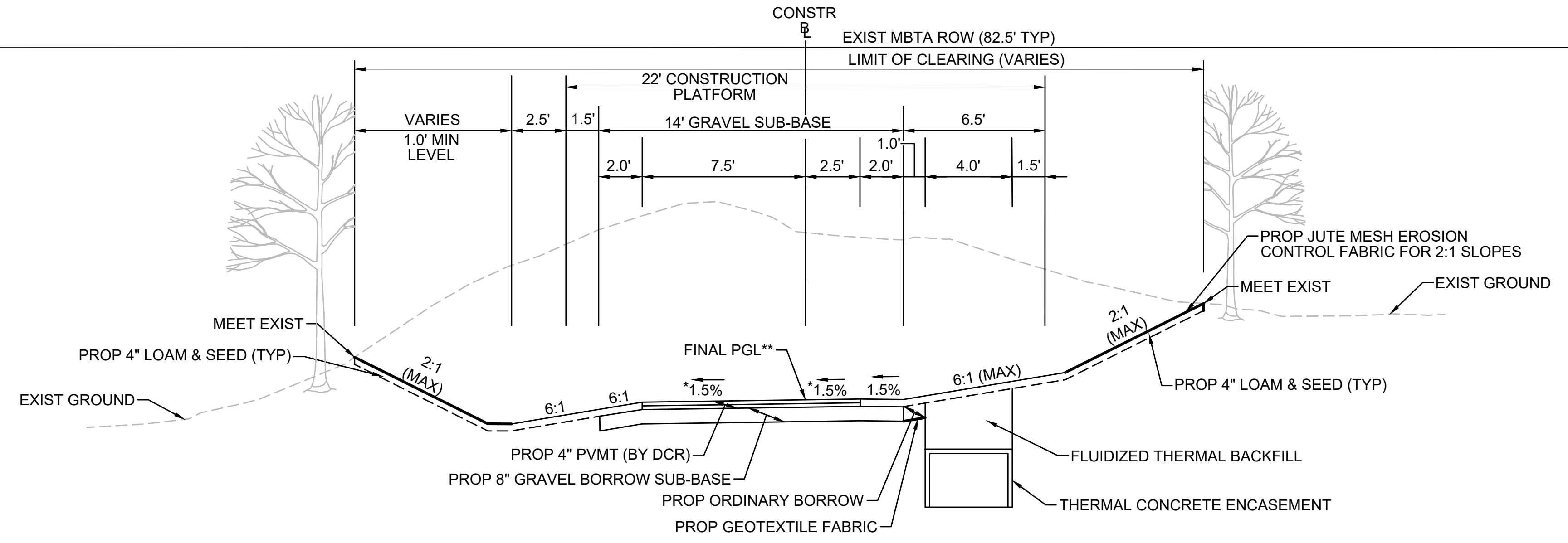
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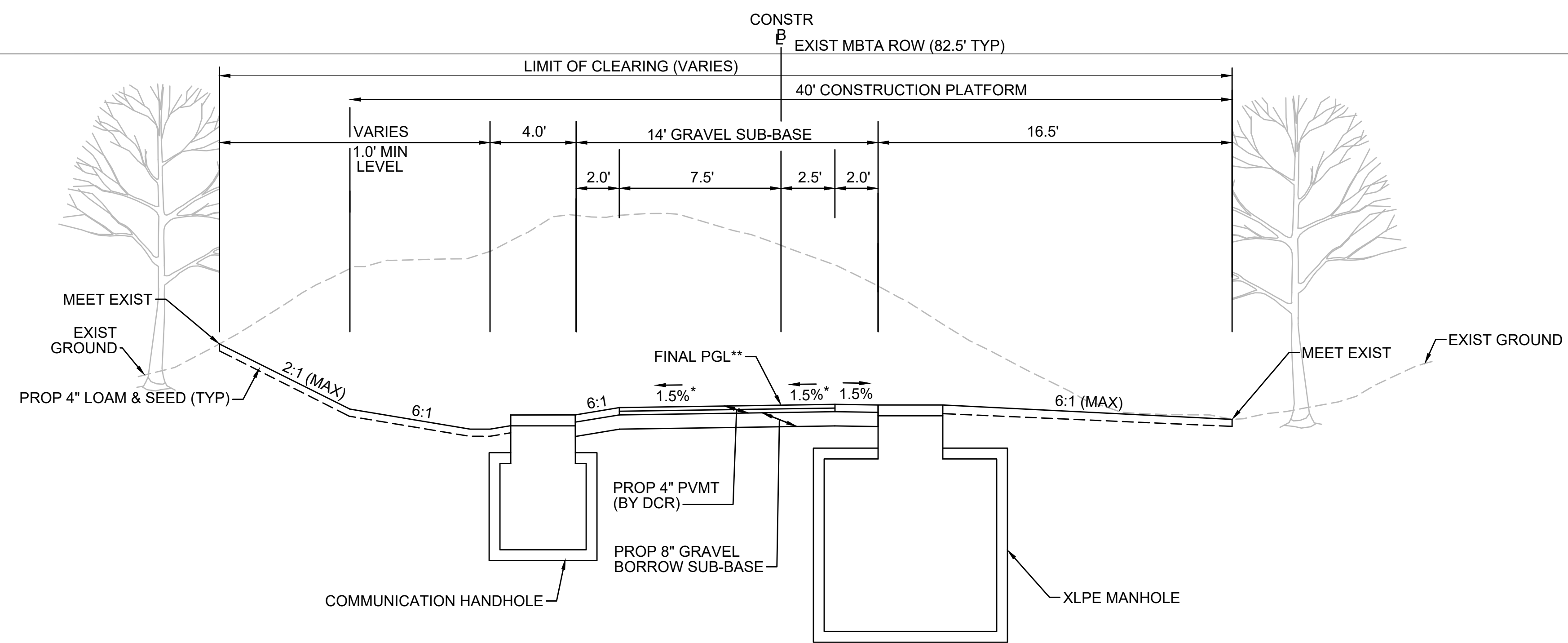
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**TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE ON RIGHT**

STA 101+00± TO STA 101+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 157 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION



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

STA 101+75± TO STA 102+25±  
NTS

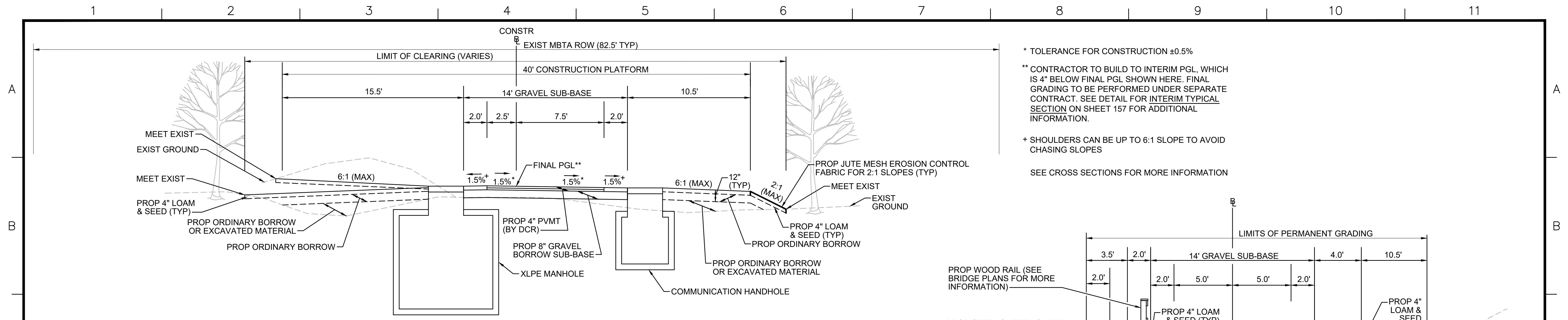
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 18 OF 349				
SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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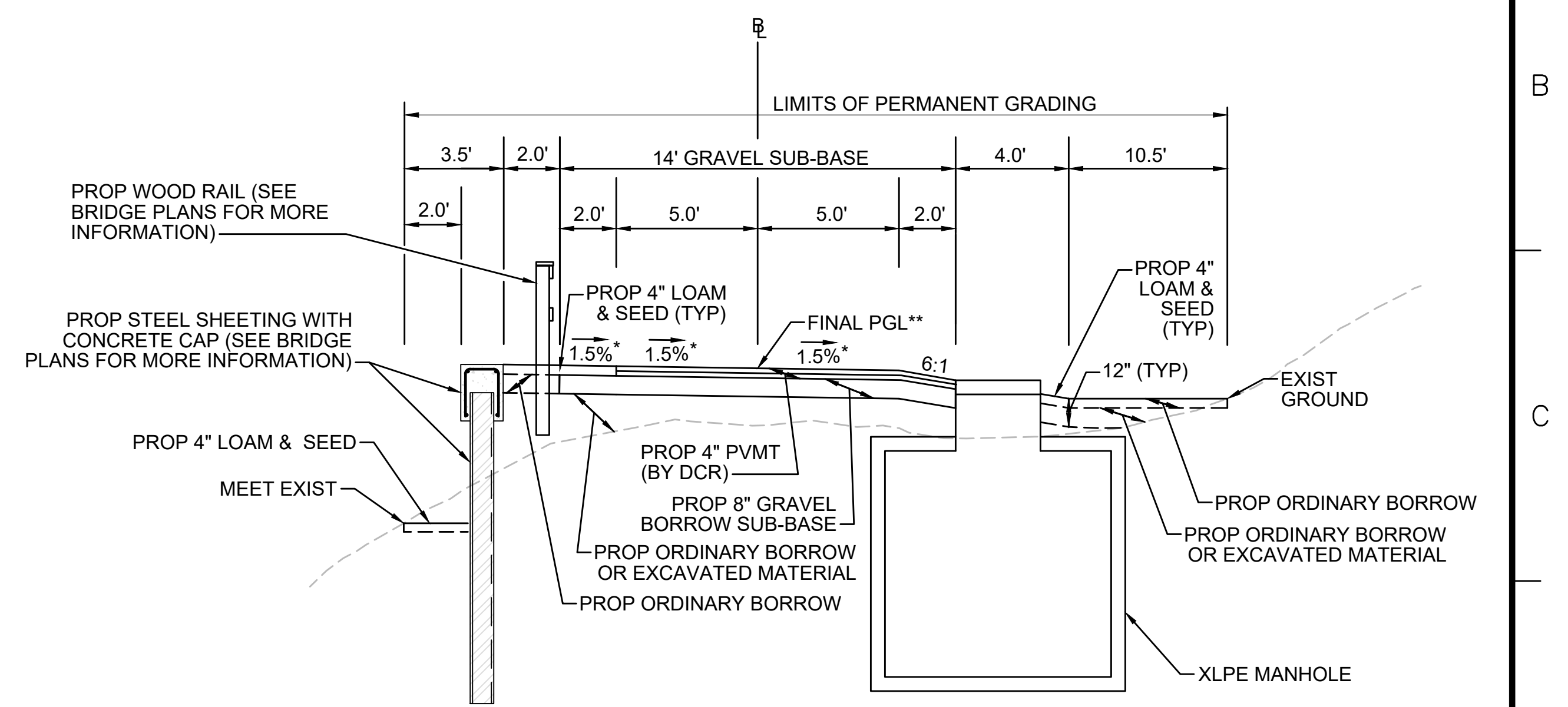




**TYPICAL SECTION - MANHOLE ON LEFT**

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

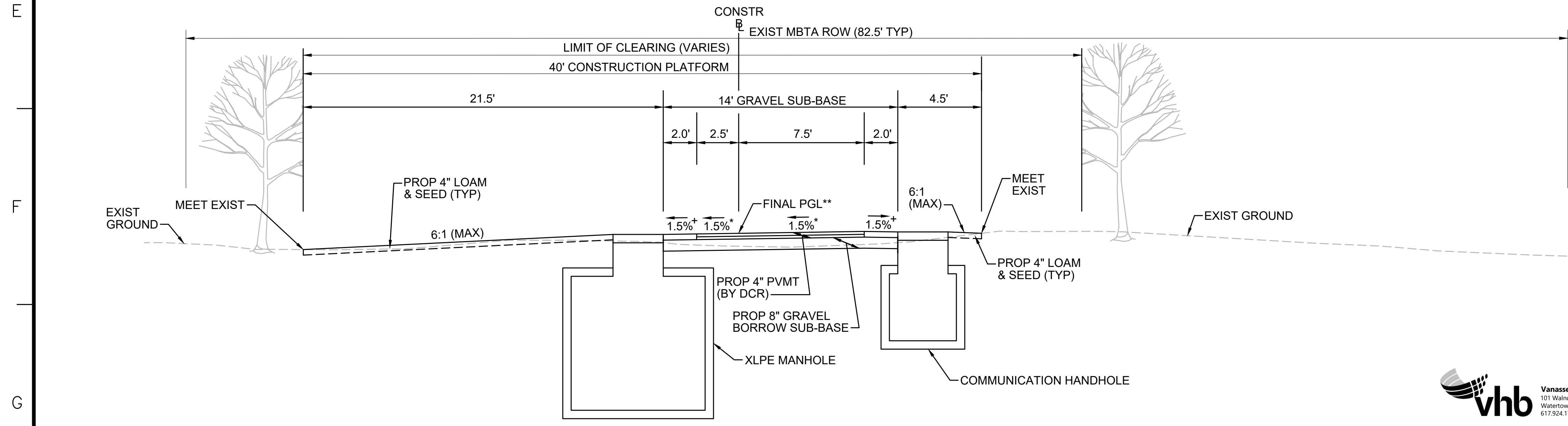
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID 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 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION  
 SEE SHEET 157 FOR TEMPORARY GRADING CONSTRUCTION DETAIL



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

STA 601+09± TO STA 601+59± 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 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 19 OF 349				
SCALE: unless noted NTS	DATE	DRAWN	CHK'D	APPR.
	FEB 2021	MS	SK	MES
DRAWING NO.	REV.			



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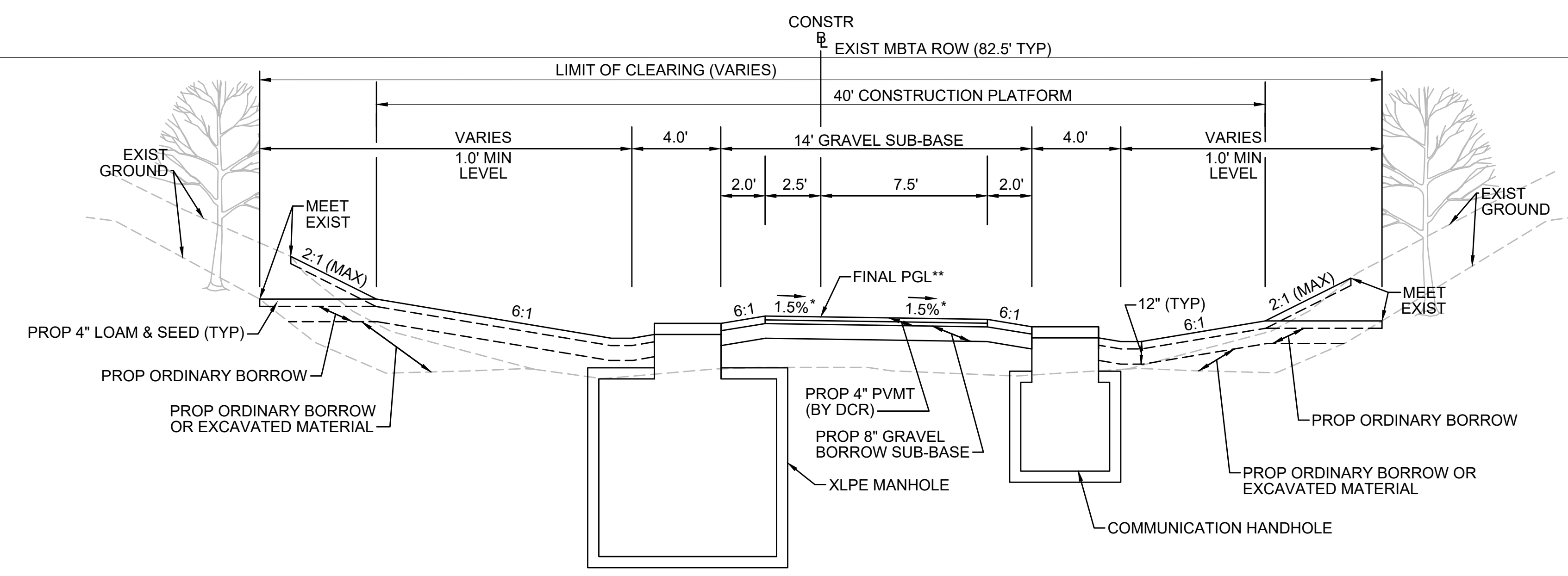
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**TYPICAL SECTION - SWALE BOTH SIDES - MANHOLE ON LEFT**

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%  
 \*\* 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 157 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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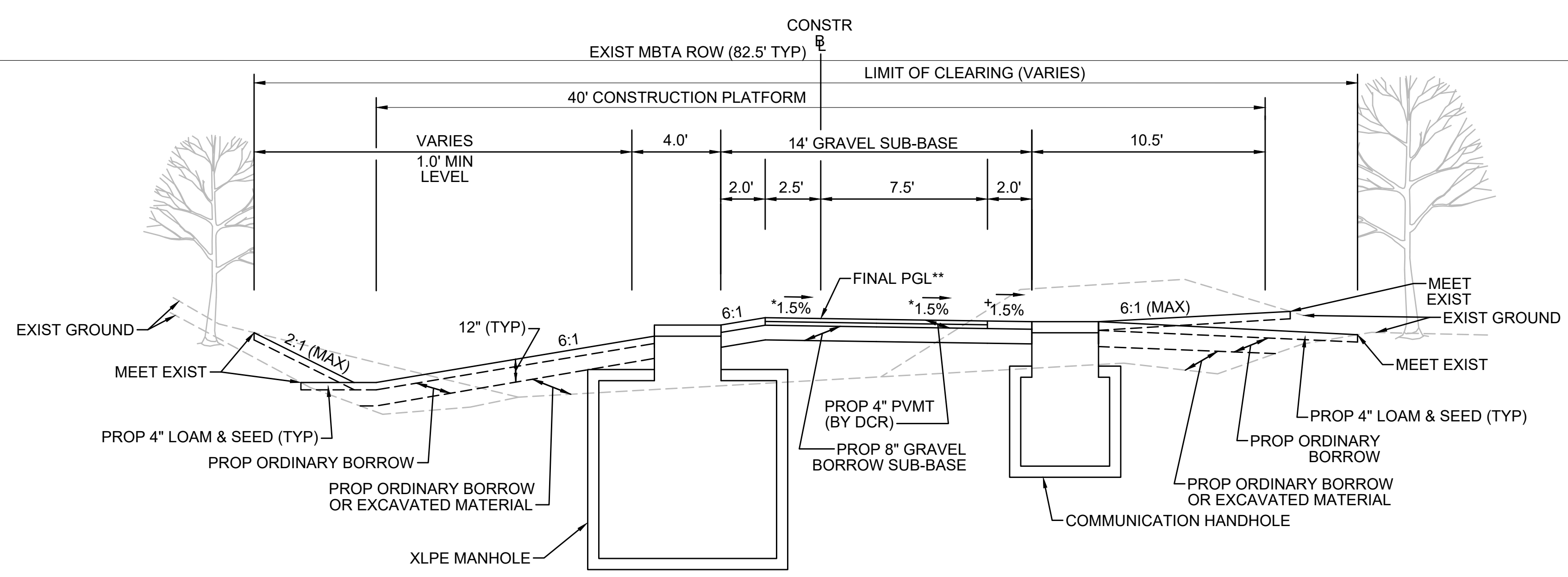
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**TYPICAL SECTION - SWALE LEFT SIDE - MANHOLE ON LEFT**

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 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

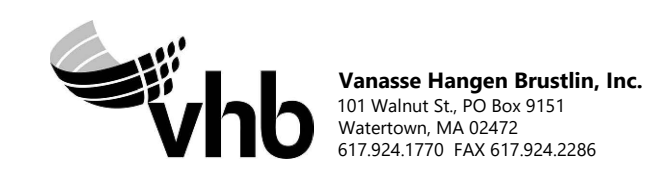
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
 \*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.  
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING SLOPES  
 SEE CROSS SECTIONS FOR MORE INFORMATION

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N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 20 OF 349				
SCALE: unless noted NTS	DATE FEB 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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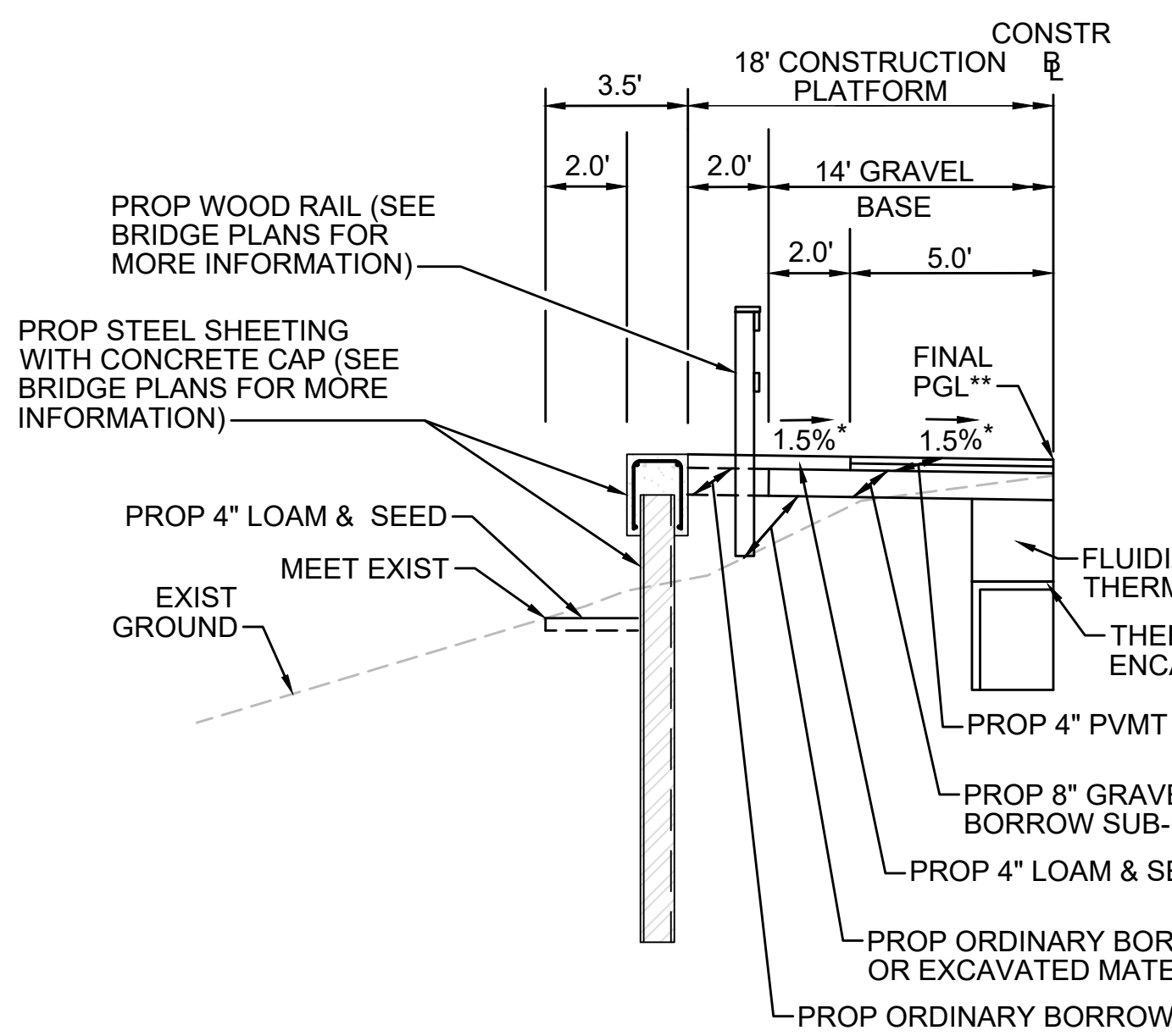






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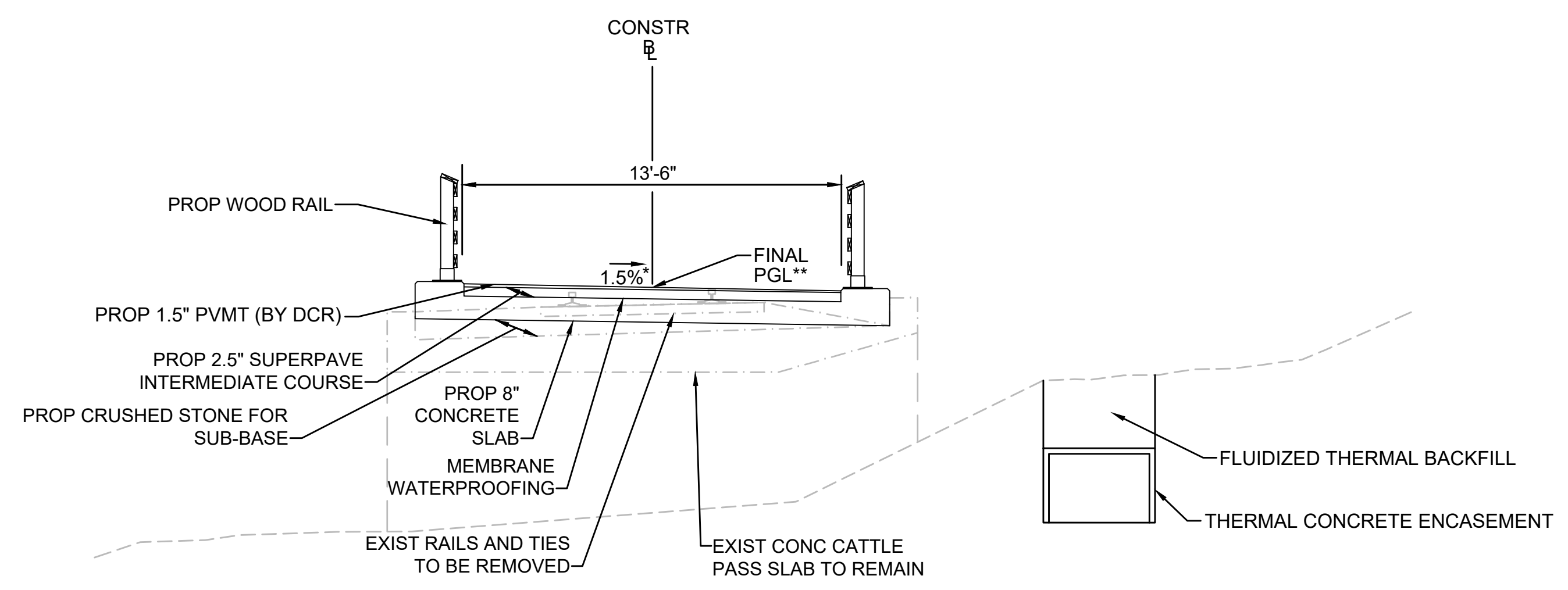
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**SHEETING SECTION LT**

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

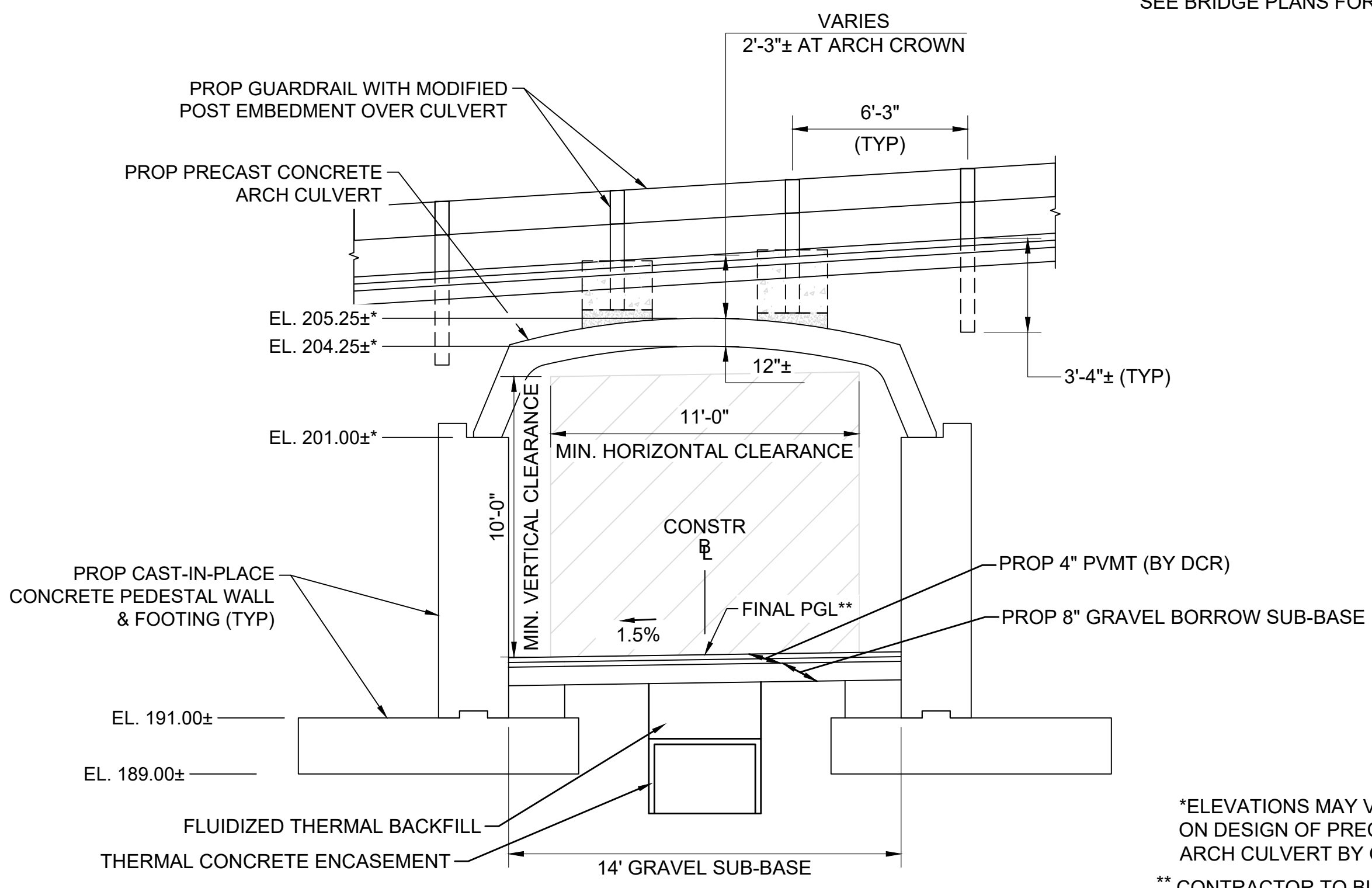
\* TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION



**CATTLE CROSSING**

STA 119+38± TO STA 119+52± NTS

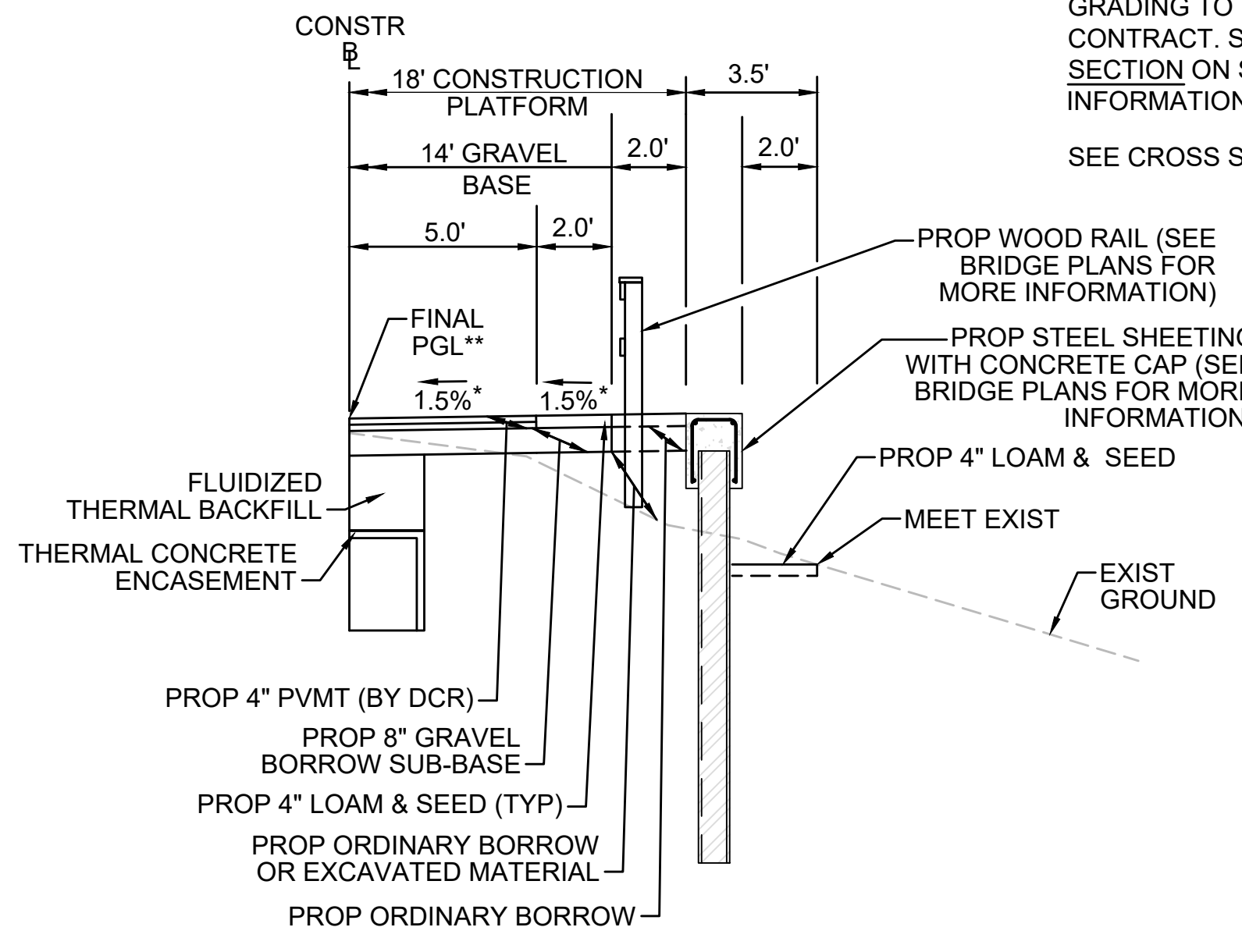
\*TOLERANCE FOR CONSTRUCTION ±0.5%  
\*\* CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 1.5" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL ON SHEET 158 FOR ADDITIONAL INFORMATION.



**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 157 FOR ADDITIONAL INFORMATION.  
SEE BRIDGE PLANS FOR MORE INFORMATION

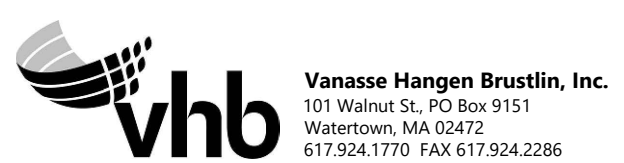


**SHEETING SECTION RT**

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 157 FOR ADDITIONAL INFORMATION.  
SEE CROSS SECTIONS FOR MORE INFORMATION

\*TOLERANCE FOR CONSTRUCTION ±0.5%



REVISION			
N.O.	DESCRIPTION	BY	DATE

**EVERSOURCE**

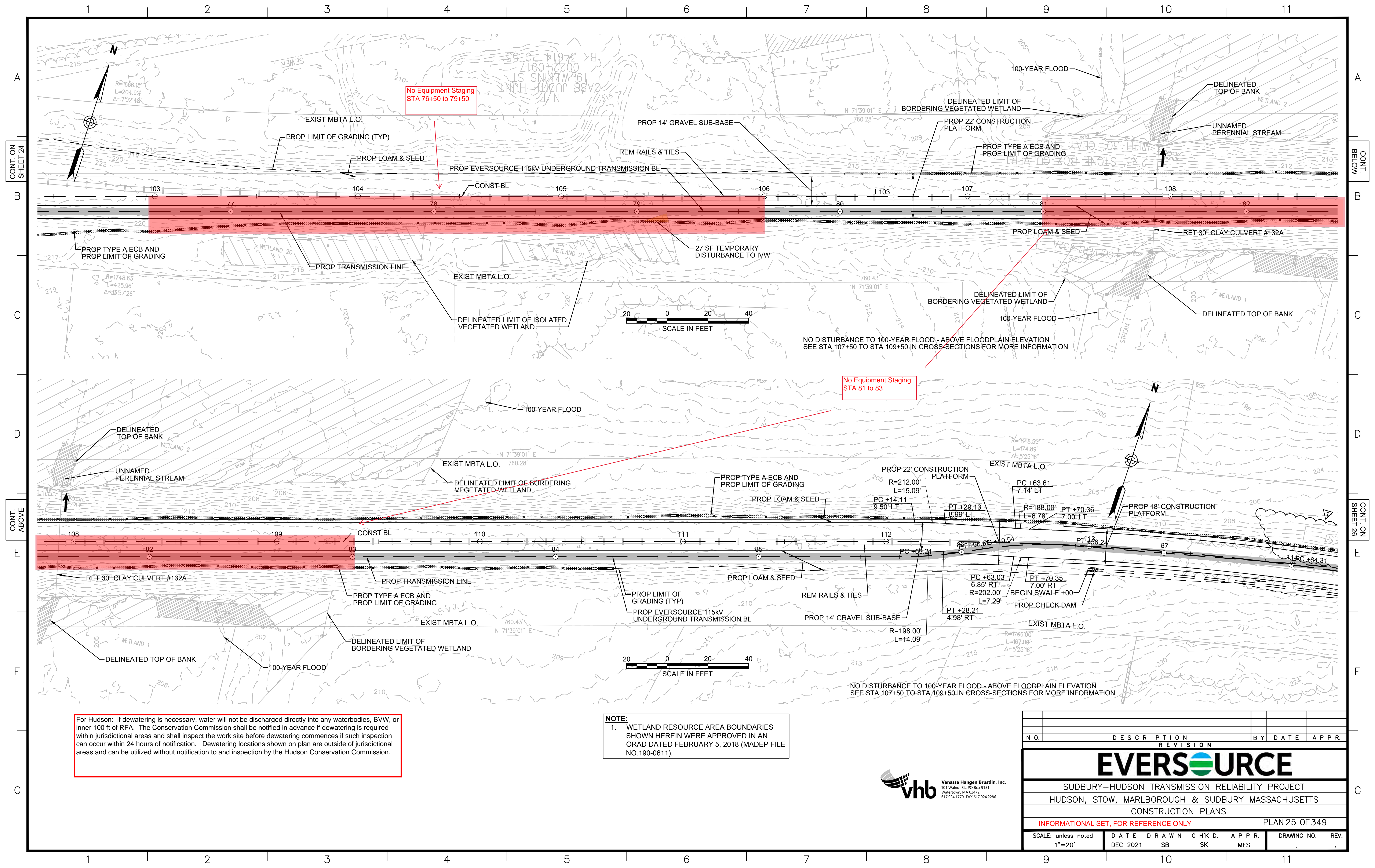
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
TYPICAL SECTIONS  
PLAN 22 OF 349

SCALE: unless noted NTS	DATE: DEC 2021	DRAWN: MS	CHK'D: SK	APP'R: MES	DRAWING NO.:	REV.:
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No Equipment Staging  
STA 76+50 to 79+50

No Equipment Staging  
STA 81 to 83

**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

REVISION			
N.O.	DESCRIPTION	BY	DATE

**EVERSOURCE**

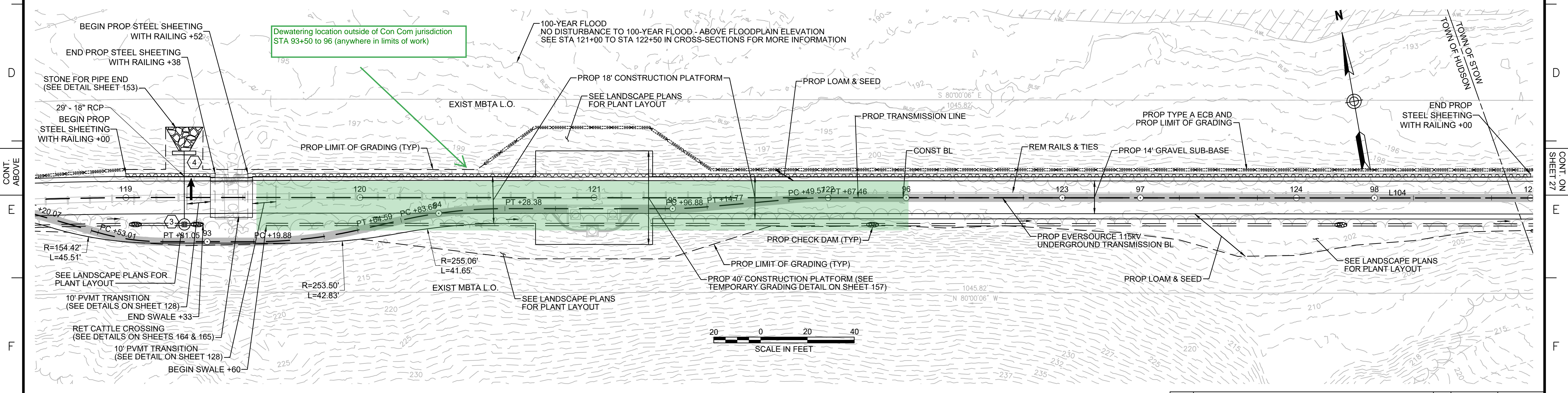
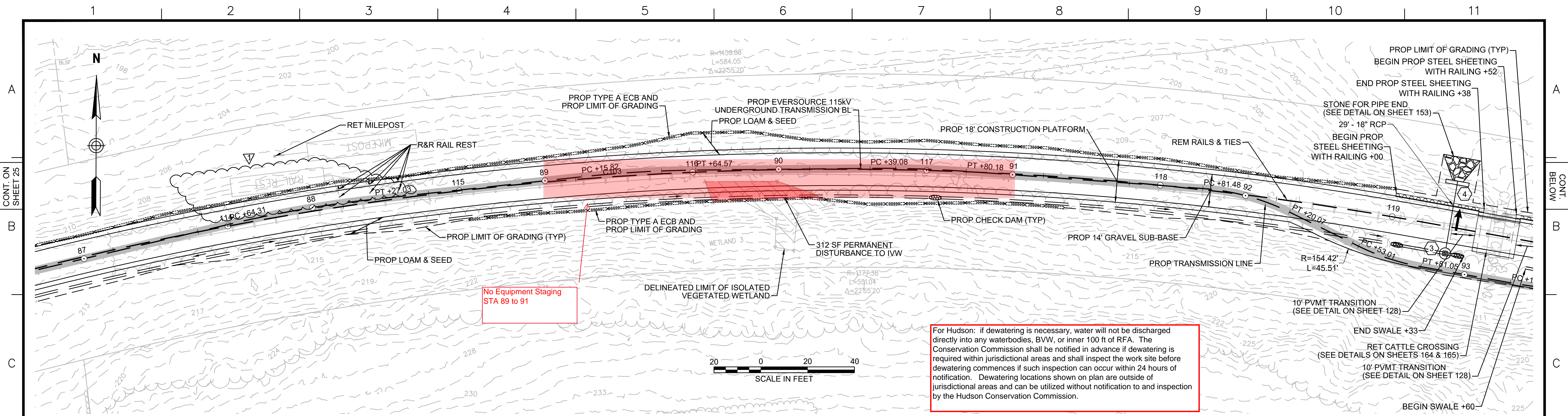
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 25 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN SB	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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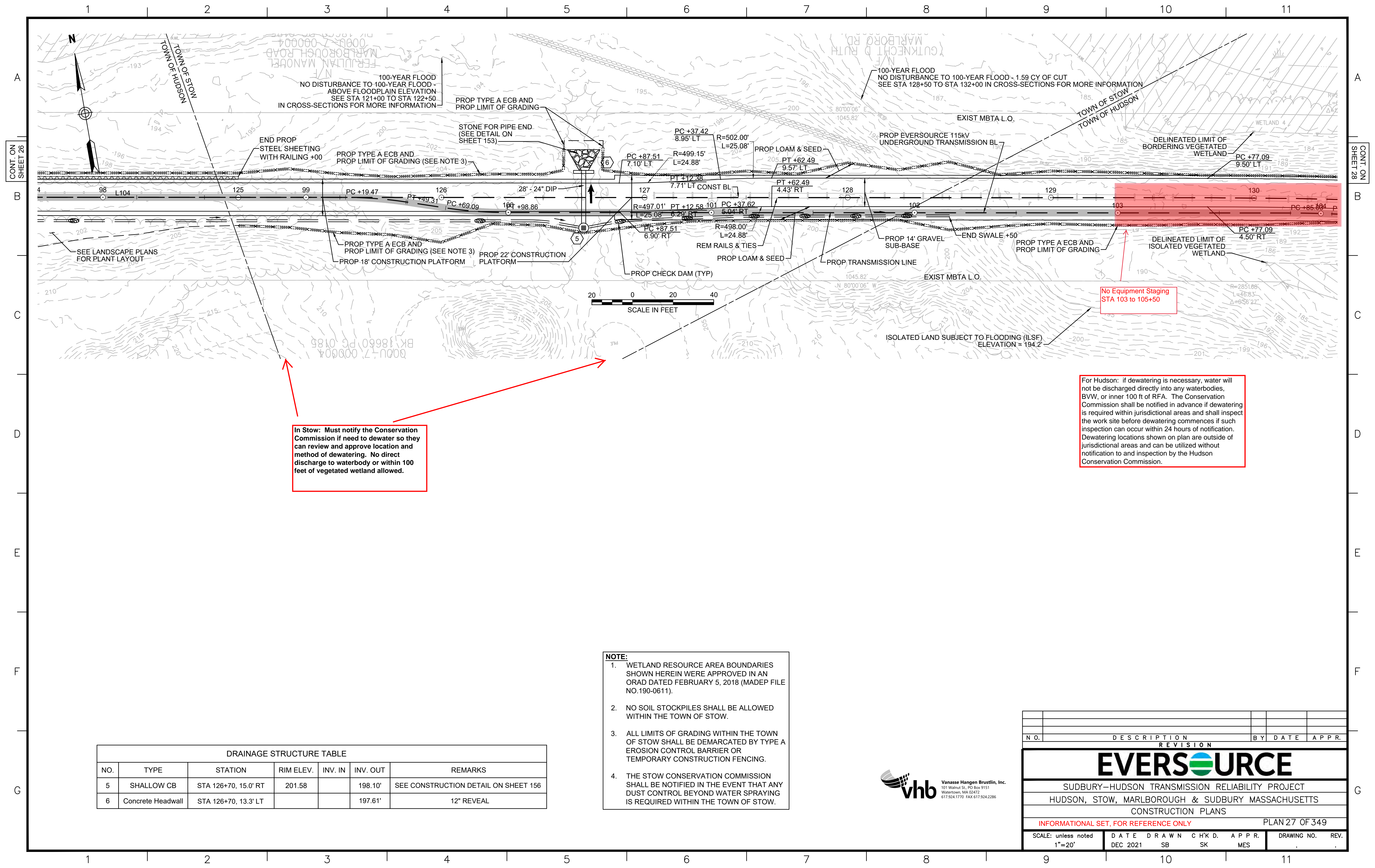
**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).

DRAINAGE STRUCTURE TABLE						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
3	Leaching Catch Basin	STA 119+25, 11.5' RT	207.24		199.17'	CONTRACTOR TO PROVIDE
4	Concrete Headwall	STA 119+25, 19.1' LT			197.91'	12" REVEAL

1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 26 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN SB	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			







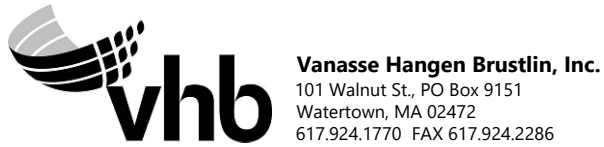
**In Stow:** Must notify the Conservation Commission if need to dewater so they can review and approve location and method of dewatering. No direct discharge to waterbody or within 100 feet of vegetated wetland allowed.

No Equipment Staging STA 103 to 105+50

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

- NOTE:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. NO SOIL STOCKPILES SHALL BE ALLOWED WITHIN THE TOWN OF STOW.
  3. ALL LIMITS OF GRADING WITHIN THE TOWN OF STOW SHALL BE DEMARCATED BY TYPE A EROSION CONTROL BARRIER OR TEMPORARY CONSTRUCTION FENCING.
  4. THE STOW CONSERVATION COMMISSION SHALL BE NOTIFIED IN THE EVENT THAT ANY DUST CONTROL BEYOND WATER SPRAYING IS REQUIRED WITHIN THE TOWN OF STOW.

DRAINAGE STRUCTURE TABLE						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
5	SHALLOW CB	STA 126+70, 15.0' RT	201.58		198.10'	SEE CONSTRUCTION DETAIL ON SHEET 156
6	Concrete Headwall	STA 126+70, 13.3' LT			197.61'	12" REVEAL



NO.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 27 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN SB	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

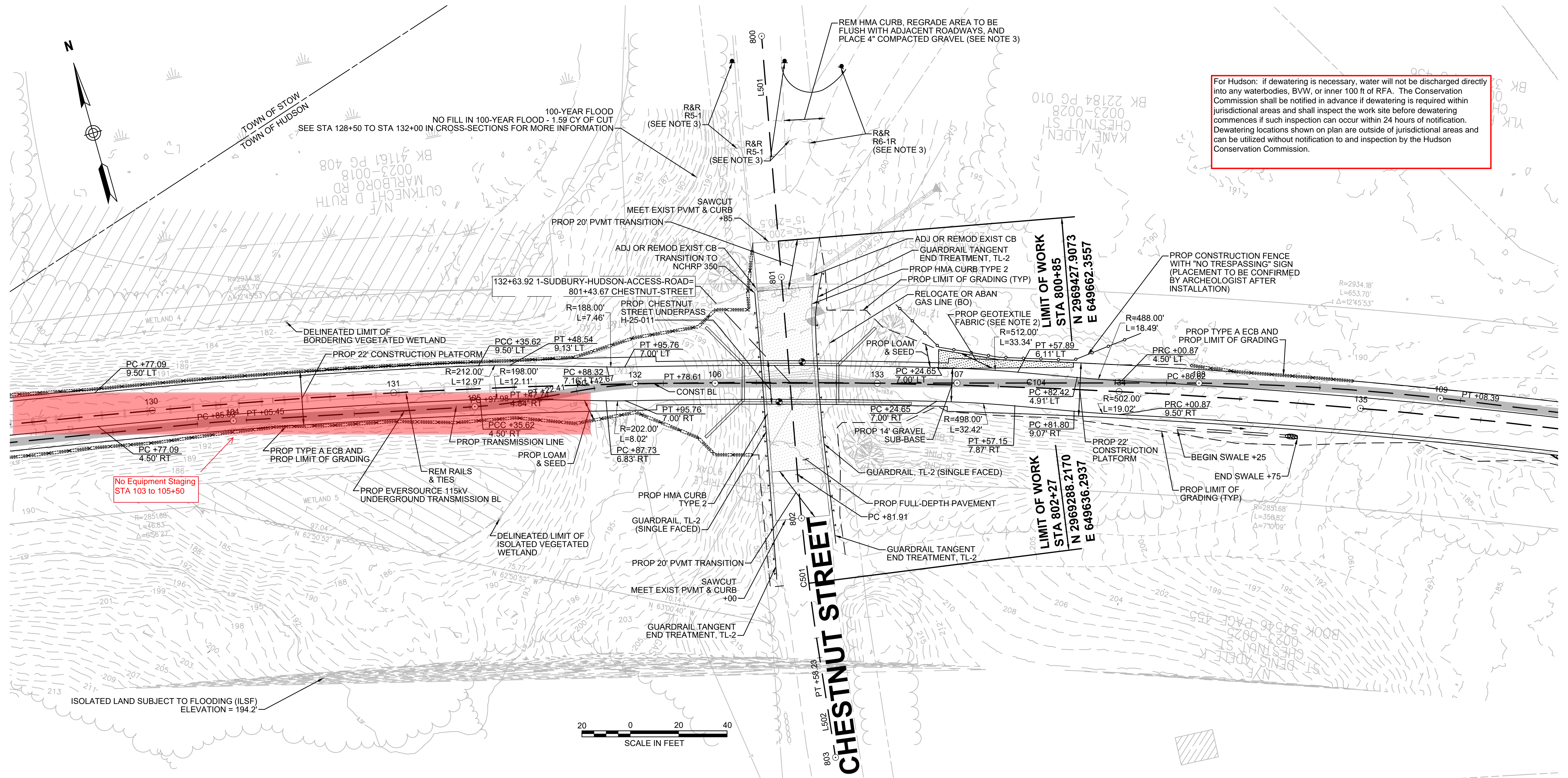


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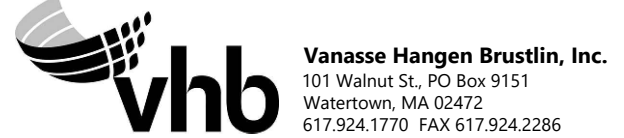
For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.



No Equipment Staging STA 103 to 105+50



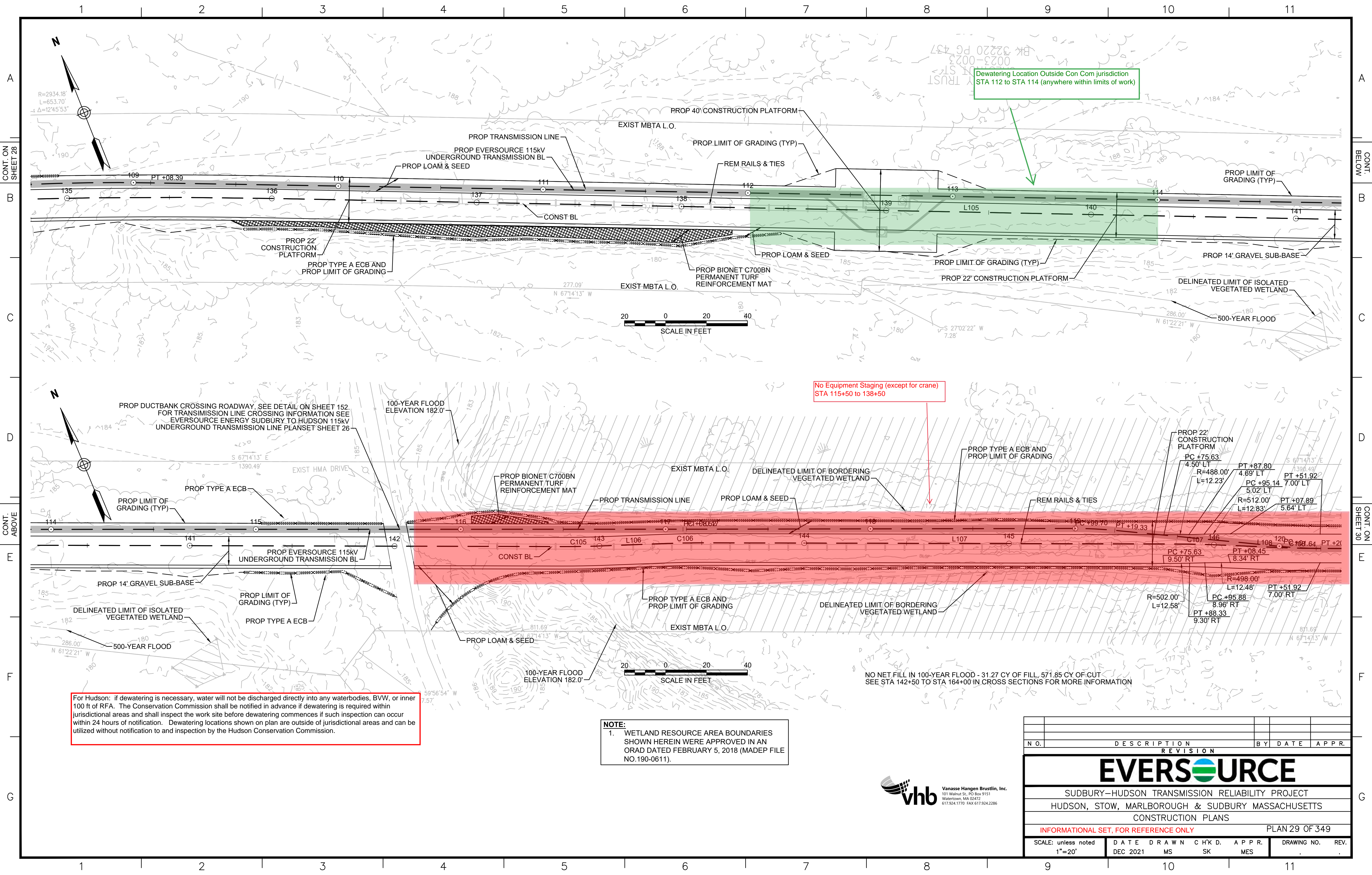
- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO. 190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 4" LOAM & SEED WITHIN LIMITS SHOWN.
  3. CONTRACTOR TO HAVE COMPACTED GRAVEL IN PLACE AND SIGNS REMOVED AND RESET BEFORE CHESTNUT STREET IS CLOSED TO TRAFFIC. CONTRACTOR TO RESTORE AREA TO ORIGINAL CONDITIONS AFTER CHESTNUT STREET UNDERPASS IS CONSTRUCTED AND CHESTNUT STREET IS REOPENED TO TRAFFIC.
  4. FOR CHESTNUT STREET PROFILE, SEE SHEET 95.



NO.	DESCRIPTION	BY	DATE	APPR.	REVISION	
<b>EVERSOURCE</b>						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CONSTRUCTION PLANS						
INFORMATIONAL SET, FOR REFERENCE ONLY						PLAN 28 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.

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Dewatering Location Outside Con Com jurisdiction  
 STA 112 to STA 114 (anywhere within limits of work)

No Equipment Staging (except for crane)  
 STA 115+50 to 138+50

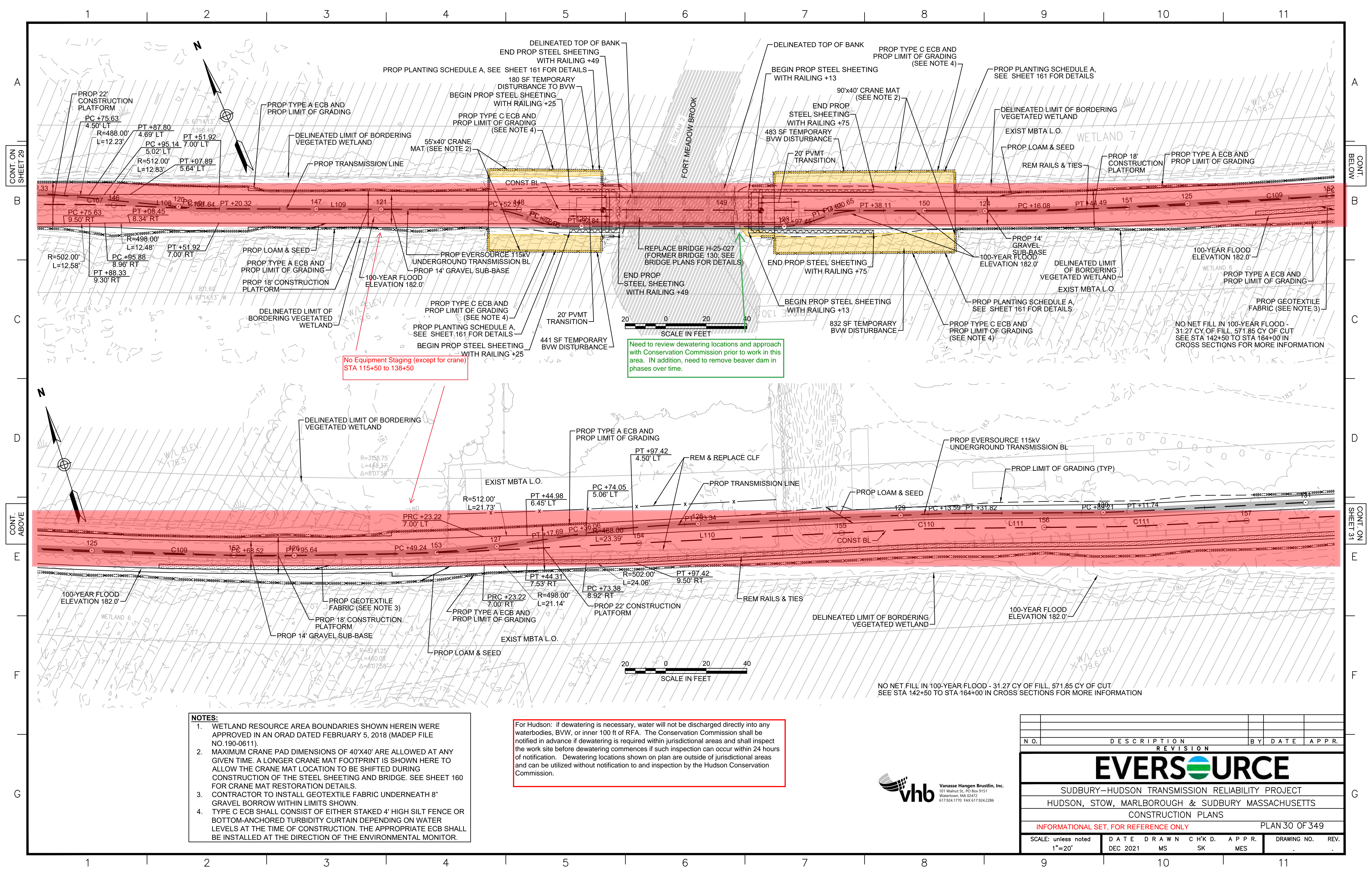
For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 29 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO. REV.
	DEC 2021	MS	SK	MES	





No Equipment Staging (except for crane) STA 115+50 to 138+50

Need to review dewatering locations and approach with Conservation Commission prior to work in this area. IN addition, need to remove beaver dam in phases over time.

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO. 190-0611).
  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. SEE SHEET 160 FOR CRANE MAT RESTORATION DETAILS.
  3. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.
  4. 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.

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.



REVISION			
N.O.	DESCRIPTION	BY	DATE

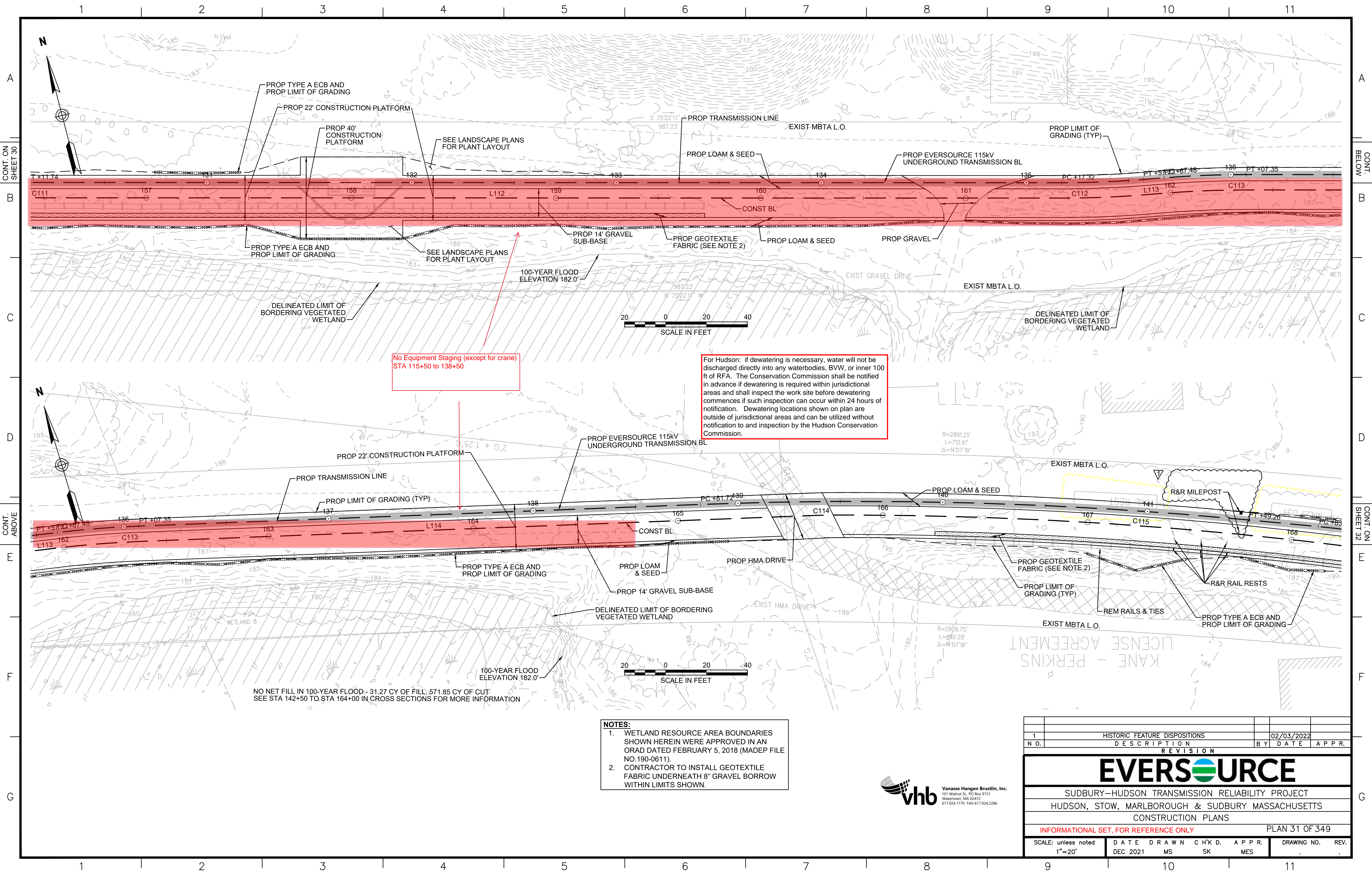
**EVERSOURCE**

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

INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 30 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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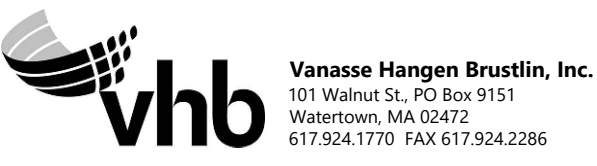


No Equipment Staging (except for crane)  
STA 115+50 to 138+50

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

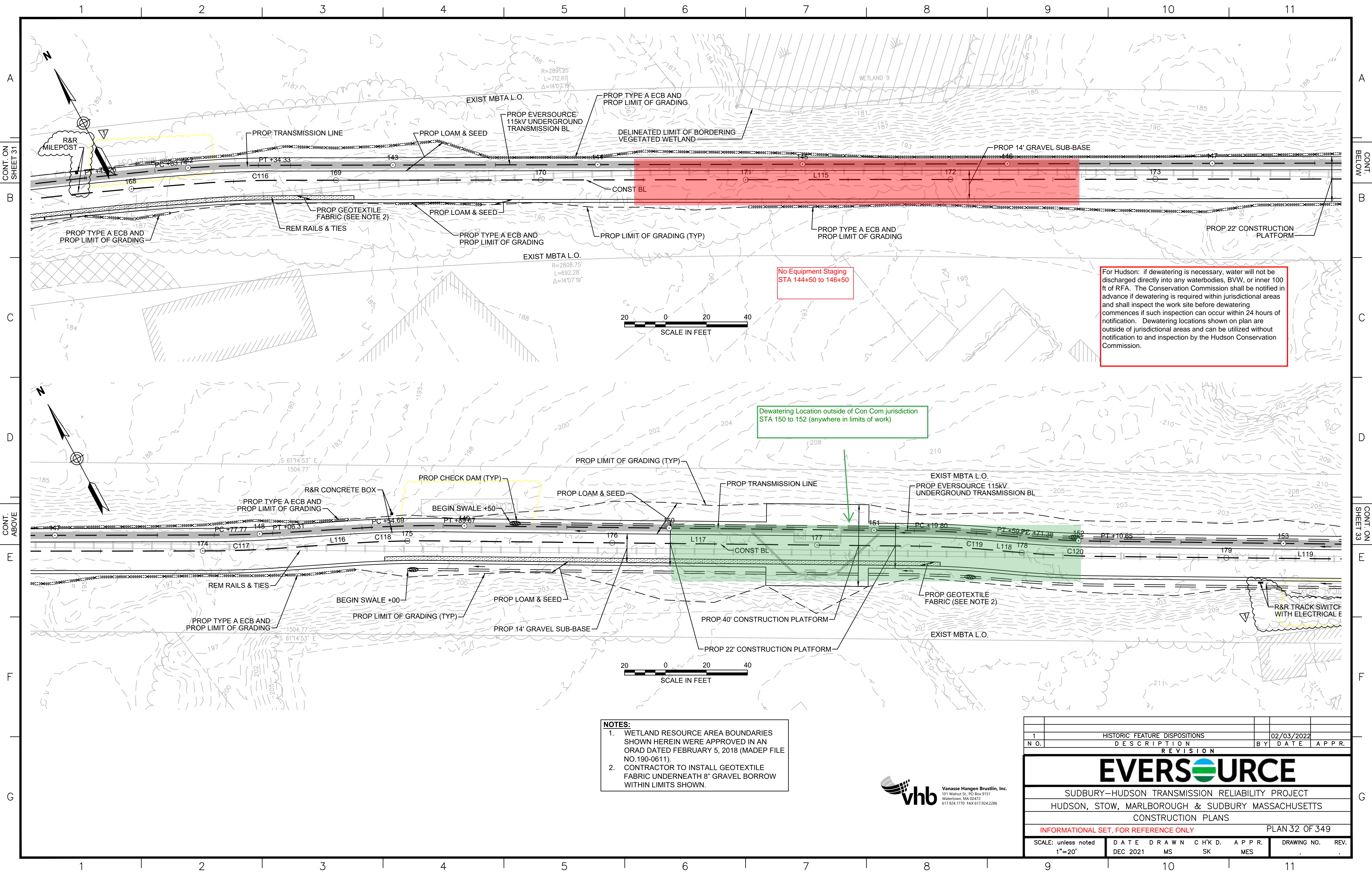
NO NET FILL IN 100-YEAR FLOOD - 31.27 CY OF FILL, 571.85 CY OF CUT  
SEE STA 142+50 TO STA 164+00 IN CROSS SECTIONS FOR MORE INFORMATION

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.



1		HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 31 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.





No Equipment Staging  
STA 144+50 to 146+50

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

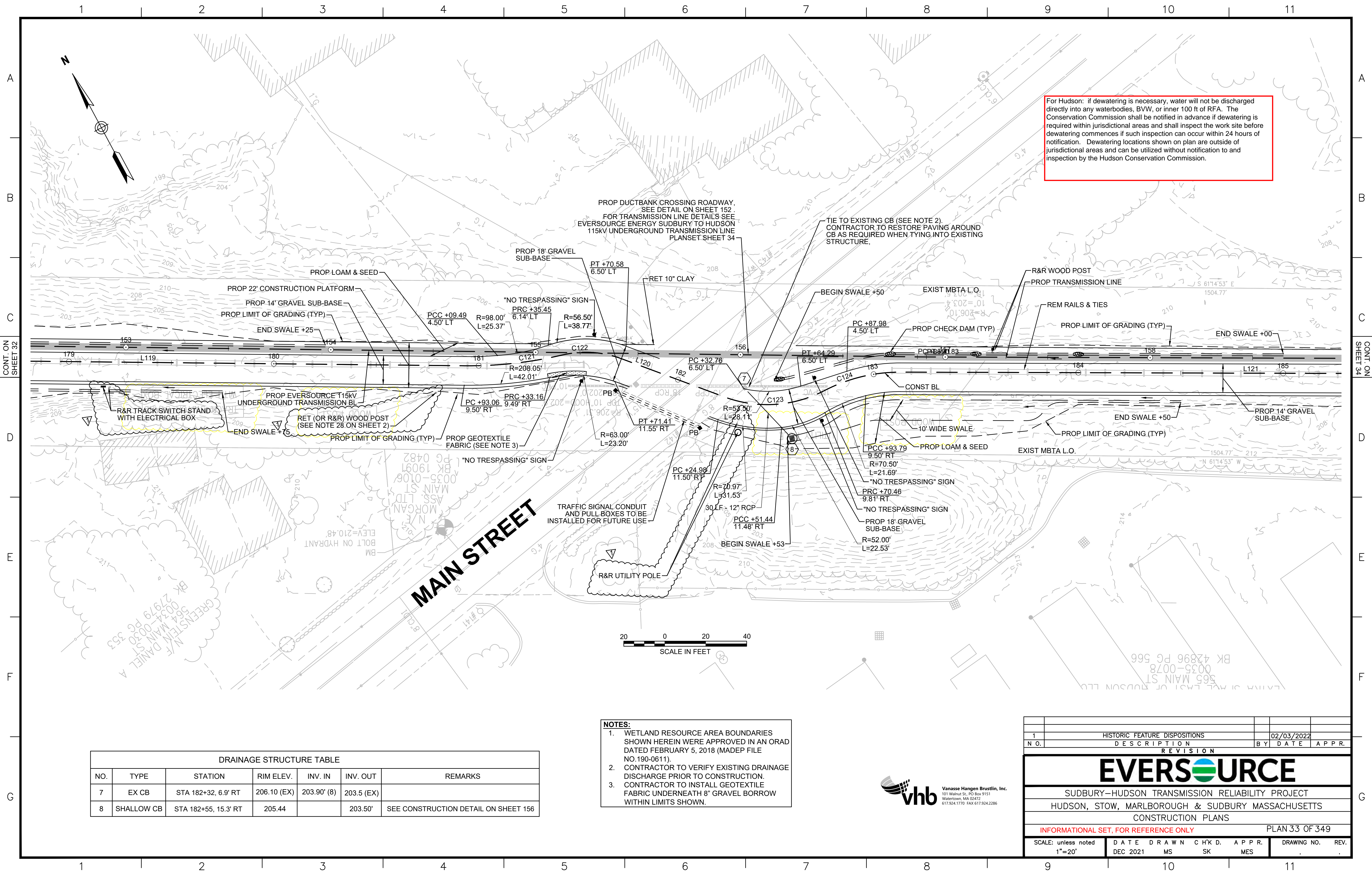
Dewatering Location outside of Con Com jurisdiction  
STA 150 to 152 (anywhere in limits of work)

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.



1		HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 32 OF 349	
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.





For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

CONT. ON SHEET 32

CONT. ON SHEET 34



DRAINAGE STRUCTURE TABLE						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
7	EX CB	STA 182+32, 6.9' RT	206.10 (EX)	203.90' (8)	203.5 (EX)	
8	SHALLOW CB	STA 182+55, 15.3' RT	205.44		203.50'	SEE CONSTRUCTION DETAIL ON SHEET 156

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO VERIFY EXISTING DRAINAGE DISCHARGE PRIOR TO CONSTRUCTION.
  3. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.

1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 33 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

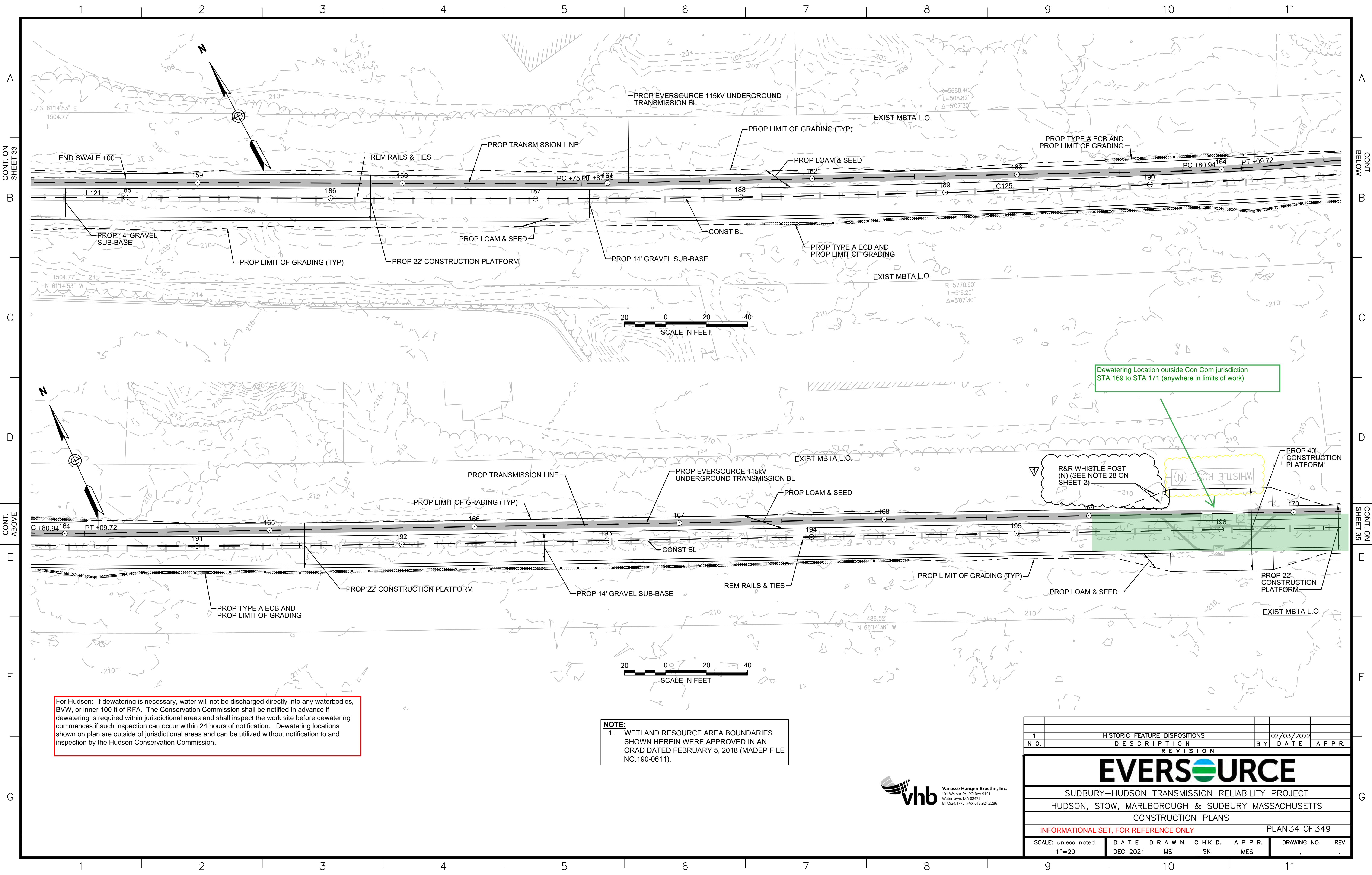


**MAIN STREET**

GREENSTEIN, DANIEL A  
504 MAIN ST  
SUITE 200  
WATERTOWN, MA 02472  
TEL: 617.924.1770  
PG 504-0030  
PG 504-0031  
PG 504-0032  
PG 504-0033  
PG 504-0034  
PG 504-0035  
PG 504-0036  
PG 504-0037  
PG 504-0038  
PG 504-0039  
PG 504-0040  
PG 504-0041  
PG 504-0042  
PG 504-0043  
PG 504-0044  
PG 504-0045  
PG 504-0046  
PG 504-0047  
PG 504-0048  
PG 504-0049  
PG 504-0050

EXHIBIT OF PLAN EAST OF HUDSON LLC  
565 MAIN ST  
SUITE 200  
WATERTOWN, MA 02472  
TEL: 617.924.1770  
PG 565-0078  
PG 565-0079  
PG 565-0080  
PG 565-0081  
PG 565-0082  
PG 565-0083  
PG 565-0084  
PG 565-0085  
PG 565-0086  
PG 565-0087  
PG 565-0088  
PG 565-0089  
PG 565-0090





For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

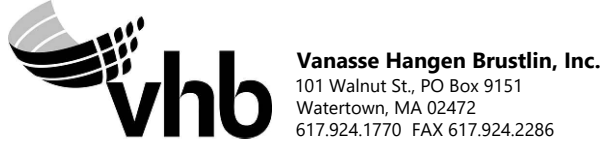
**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).

Dewatering Location outside Con Com jurisdiction  
 STA 169 to STA 171 (anywhere in limits of work)

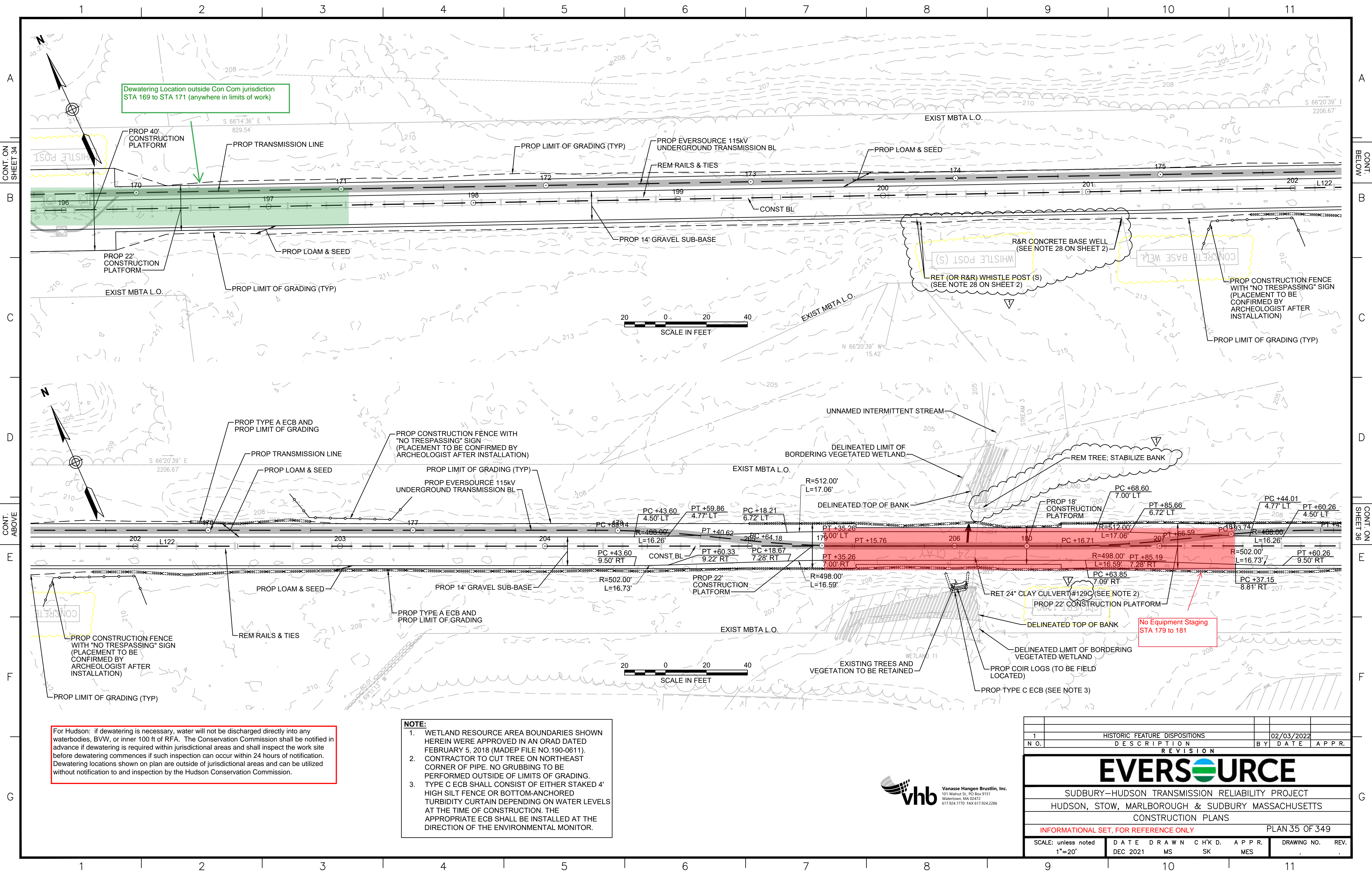
R&R WHISTLE POST (N) (SEE NOTE 28 ON SHEET 2)

WHISTLE POST (N)

1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 34 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK APP'R. MES
			DRAWING NO. REV.





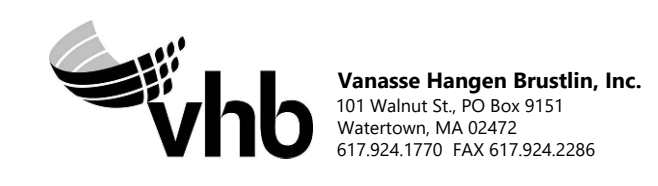


Dewatering Location outside Con Com jurisdiction STA 169 to STA 171 (anywhere in limits of work)

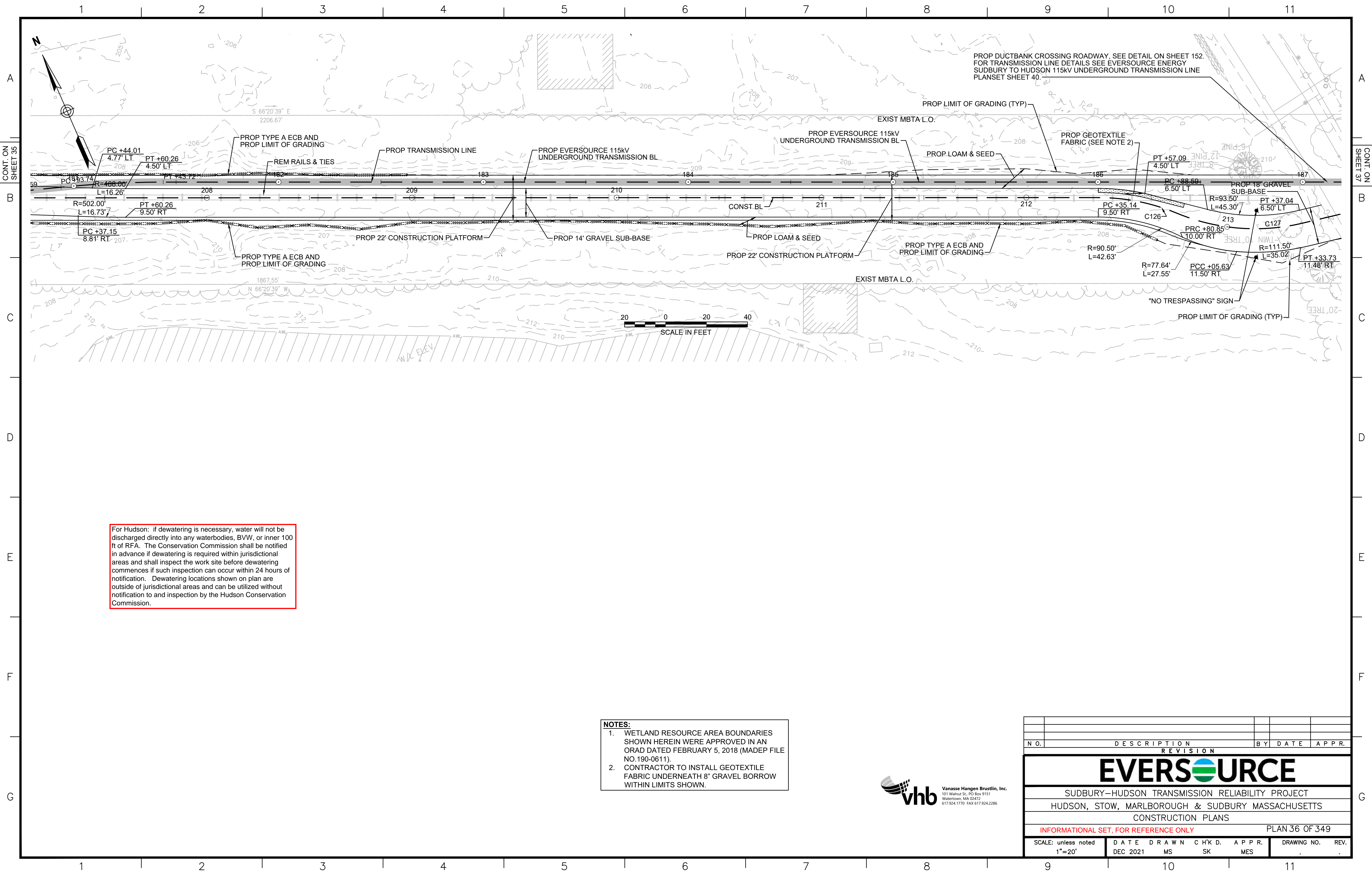
For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

- NOTE:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611). CONTRACTOR TO CUT TREE ON NORTHEAST CORNER OF PIPE. NO GRUBBING TO BE PERFORMED OUTSIDE OF LIMITS OF GRADING.
  2. 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.
  - 3.

1		HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.		DESCRIPTION		BY DATE APPR.	
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 35 OF 349	
SCALE: unless noted 1"=20'		DATE DRAWN DEC 2021 MS		CHK'D. APPR. SK MES	
				DRAWING NO. REV.	



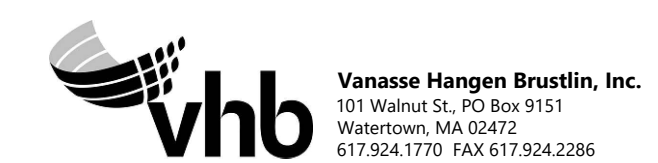




PROP DUCTBANK CROSSING ROADWAY. SEE DETAIL ON SHEET 152.  
 FOR TRANSMISSION LINE DETAILS SEE EVERSOURCE ENERGY  
 SUDBURY TO HUDSON 115KV UNDERGROUND TRANSMISSION LINE  
 PLANSET SHEET 40.

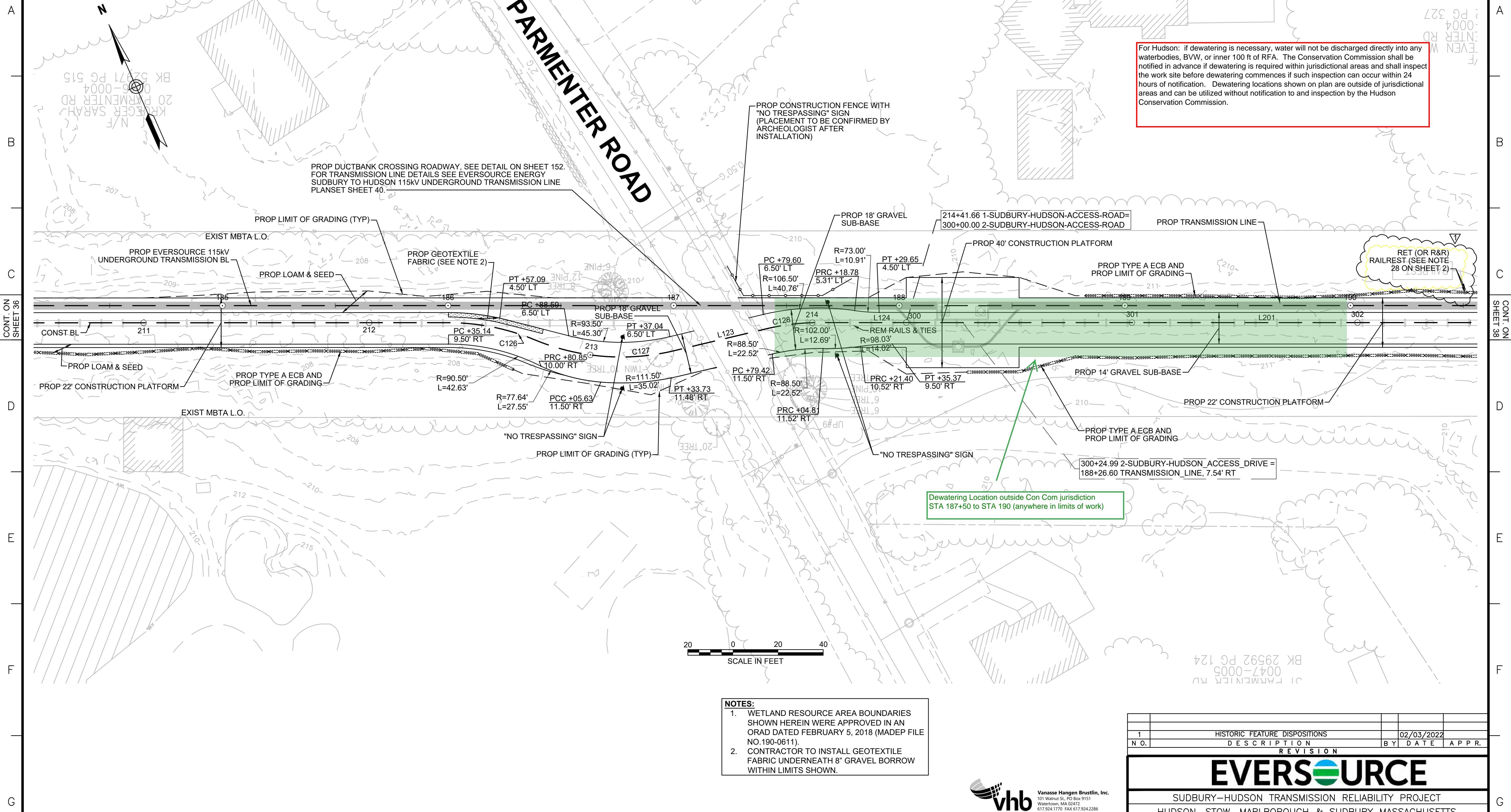
For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 36 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
			DRAWING NO.	REV.





For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.



HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE
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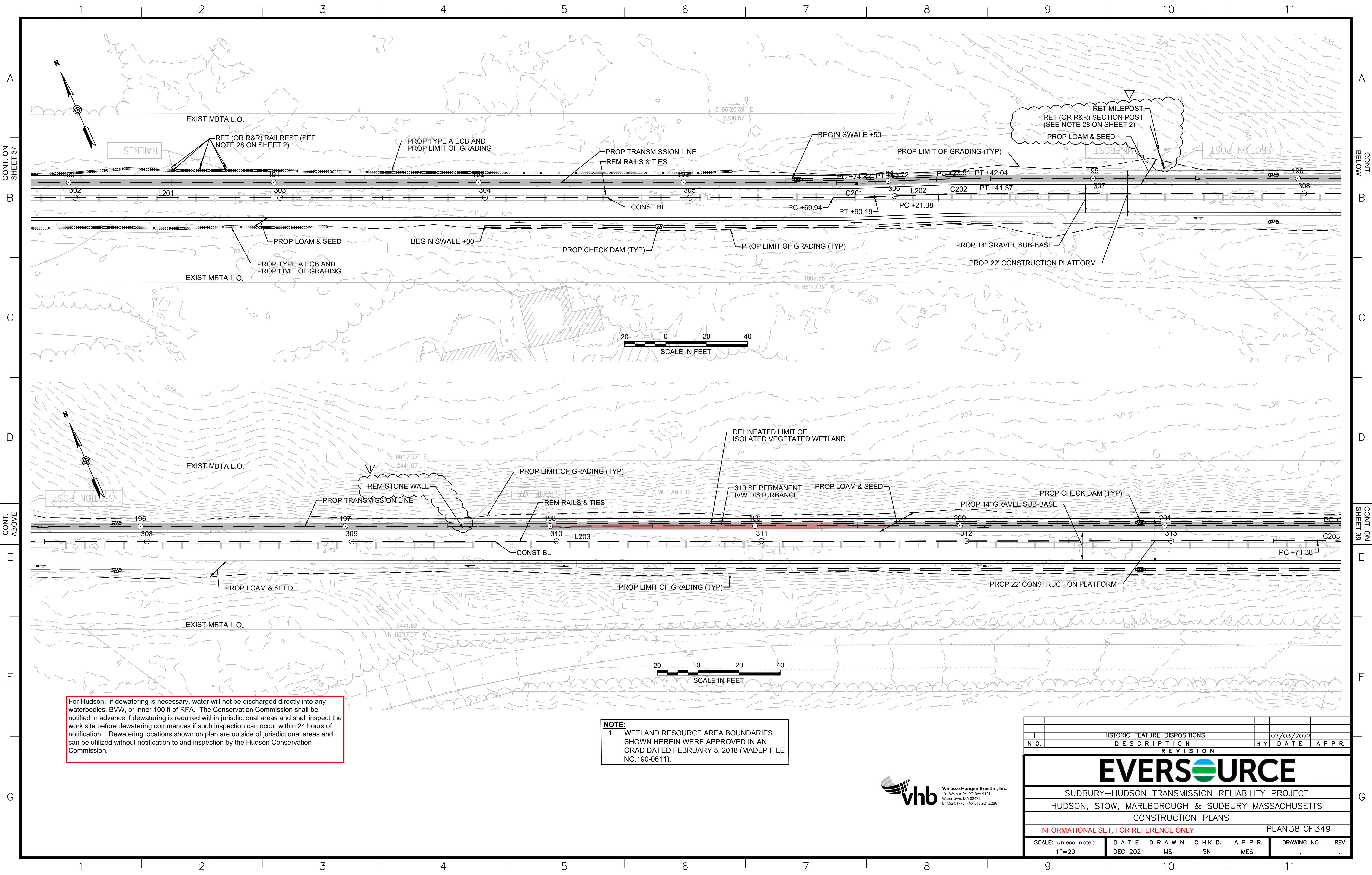
  

REVISION			

<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 37 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK
	A.P.P.R. MES	DRAWING NO.	REV.





For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 38 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. APPR. SK MES
DRAWING NO.		REV.	



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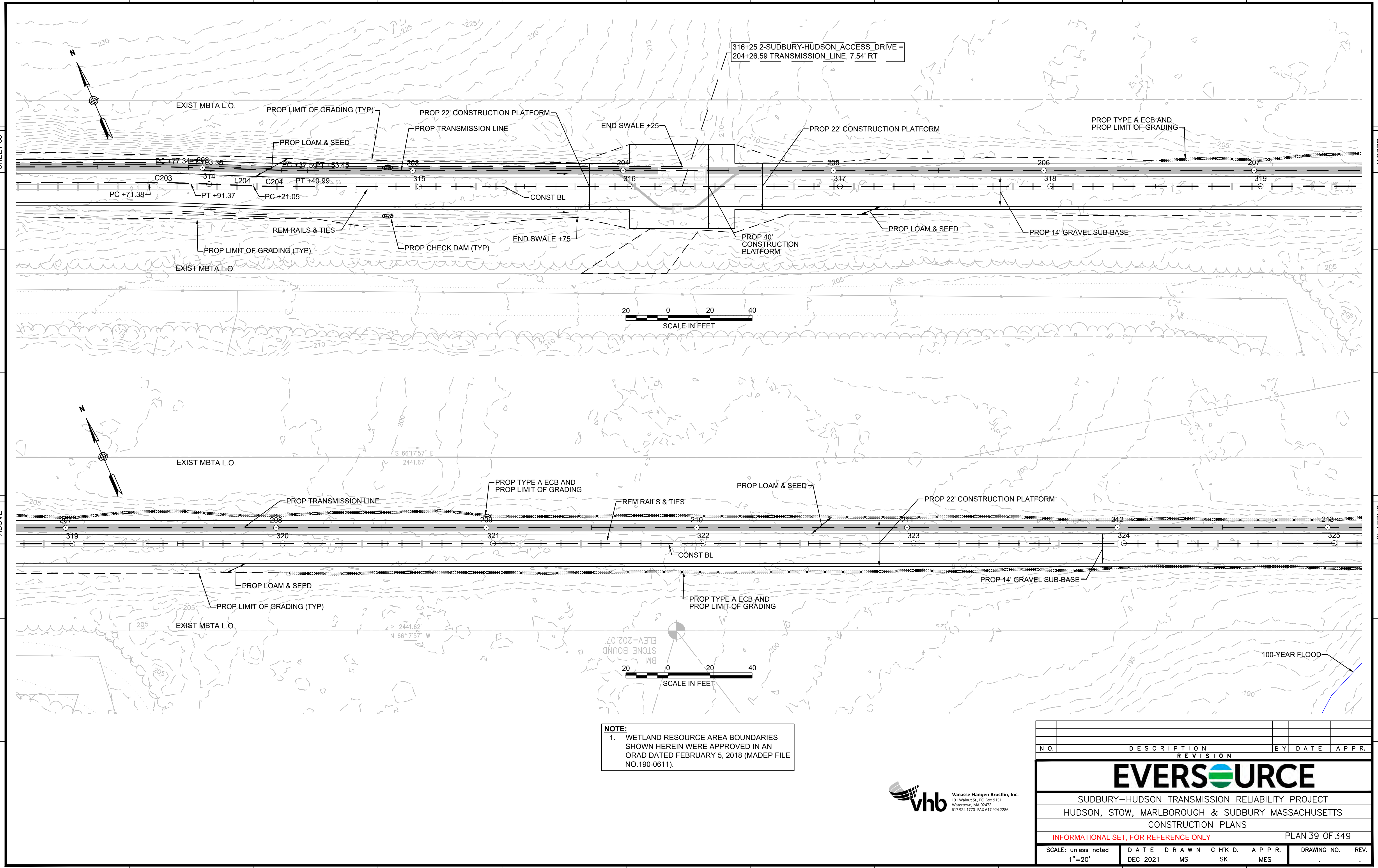
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**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

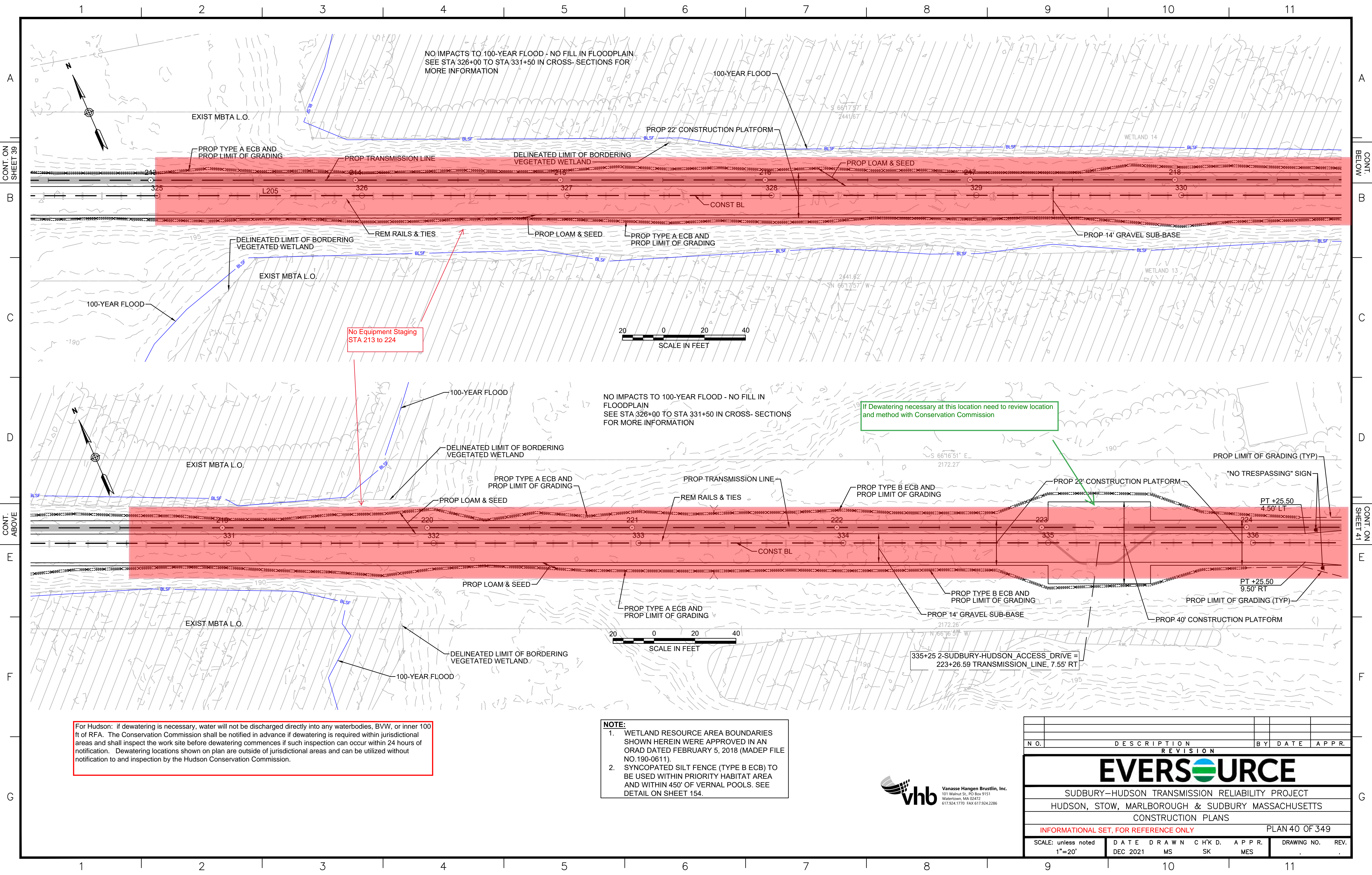
**EVERSOURCE**

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

INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 39 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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NO IMPACTS TO 100-YEAR FLOOD - NO FILL IN FLOODPLAIN  
SEE STA 326+00 TO STA 331+50 IN CROSS-SECTIONS FOR  
MORE INFORMATION

NO IMPACTS TO 100-YEAR FLOOD - NO FILL IN  
FLOODPLAIN  
SEE STA 326+00 TO STA 331+50 IN CROSS-SECTIONS  
FOR MORE INFORMATION

If Dewatering necessary at this location need to review location  
and method with Conservation Commission

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).  
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND WITHIN 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



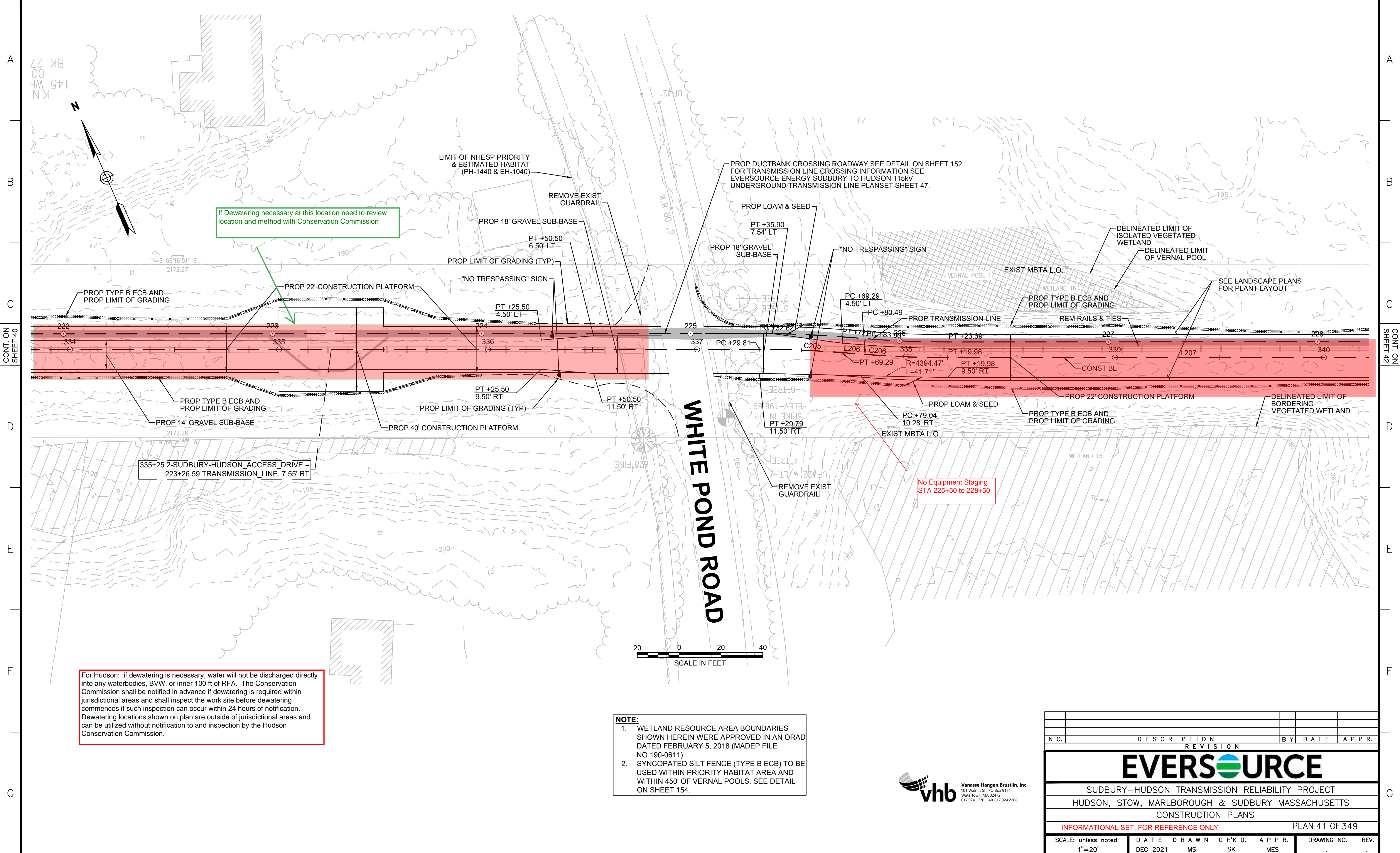
NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 40 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO. REV.
	DEC 2021	MS	SK	MES	



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CONT. ON SHEET 40

CONT. ON SHEET 42

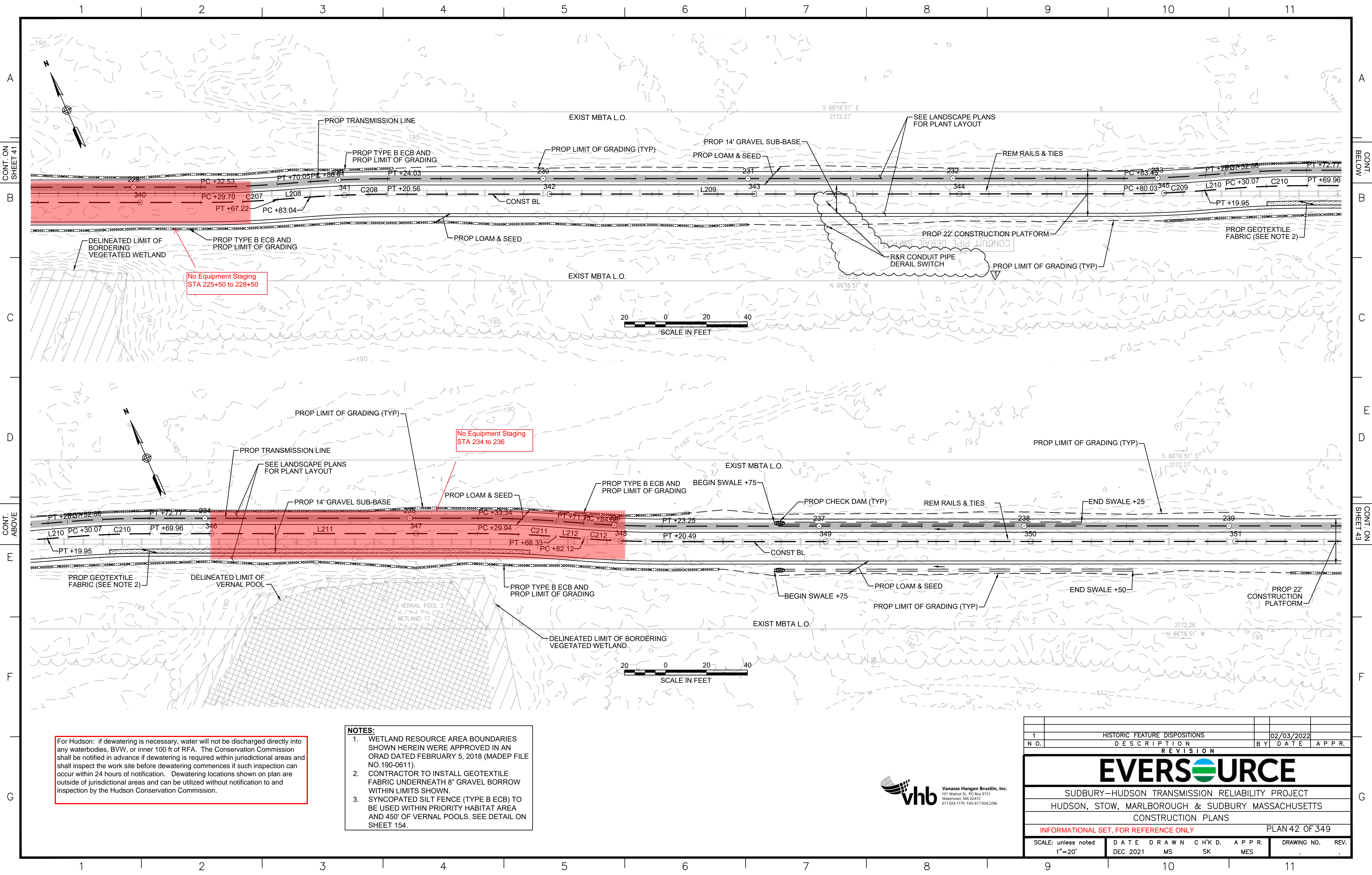
NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 41 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO. REV.
	DEC 2021	MS	SK	MES	



**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).  
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND WITHIN 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.



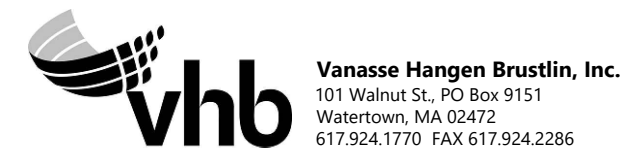


No Equipment Staging  
STA 225+50 to 228+50

No Equipment Staging  
STA 234 to 236

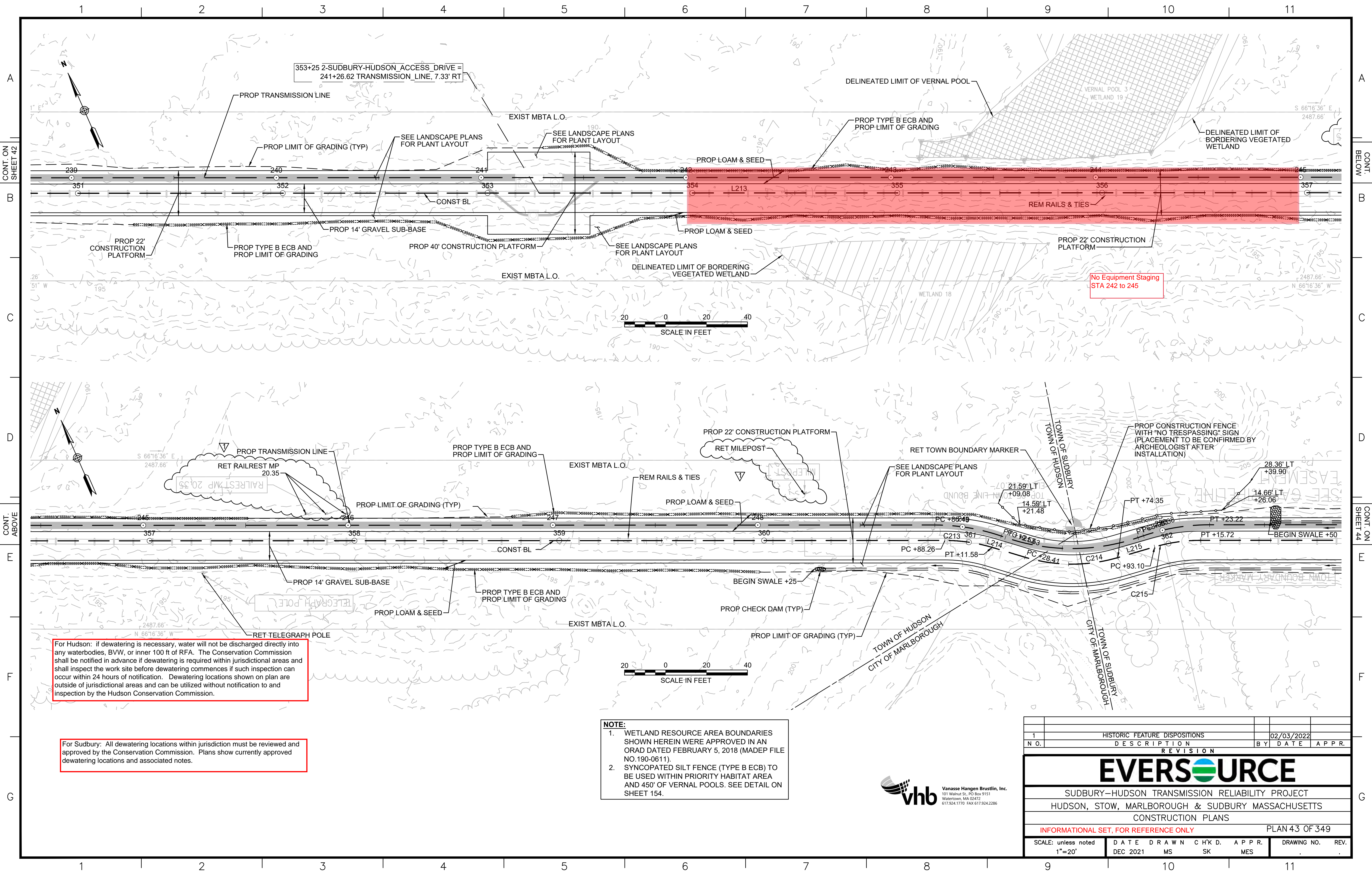
For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 8" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



1		HISTORIC FEATURE DISPOSITIONS	02/03/2022
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 42 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D. APPR.
	DEC 2021	MS	SK MES
			DRAWING NO. REV.





CONT. ON SHEET 42

CONT. BELOW

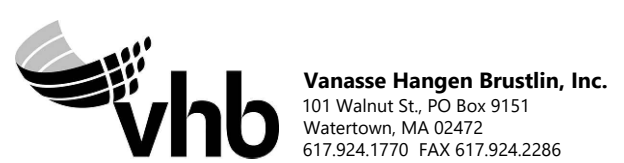
CONT. ABOVE

CONT. ON SHEET 44

For Hudson: if dewatering is necessary, water will not be discharged directly into any waterbodies, BVW, or inner 100 ft of RFA. The Conservation Commission shall be notified in advance if dewatering is required within jurisdictional areas and shall inspect the work site before dewatering commences if such inspection can occur within 24 hours of notification. Dewatering locations shown on plan are outside of jurisdictional areas and can be utilized without notification to and inspection by the Hudson Conservation Commission.

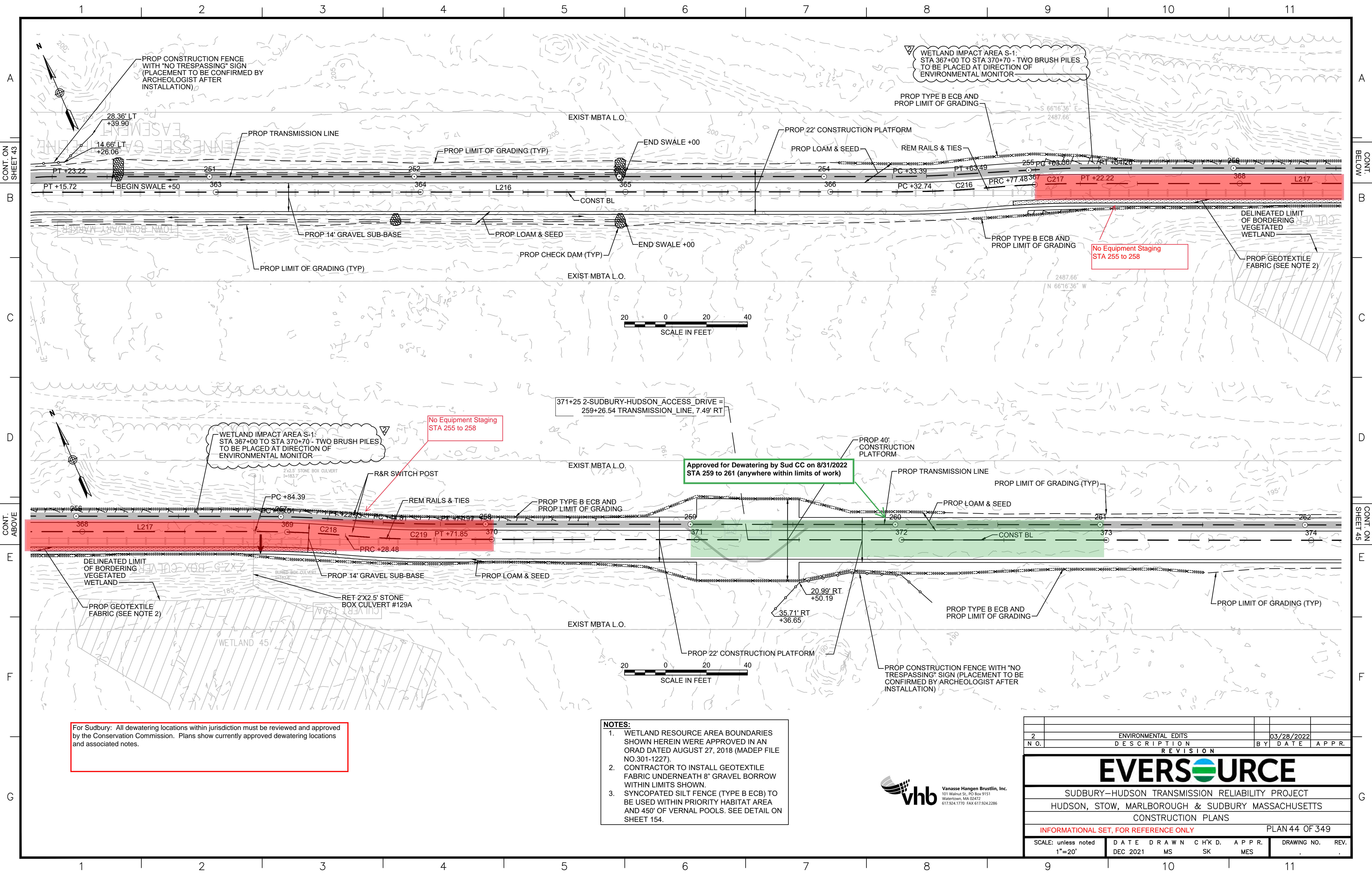
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



1		HISTORIC FEATURE DISPOSITIONS		02/03/2022	
N.O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 43 OF 349	
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.





CONT. ON SHEET 43

CONT. BELOW

CONT. ABOVE

CONT. ON SHEET 45

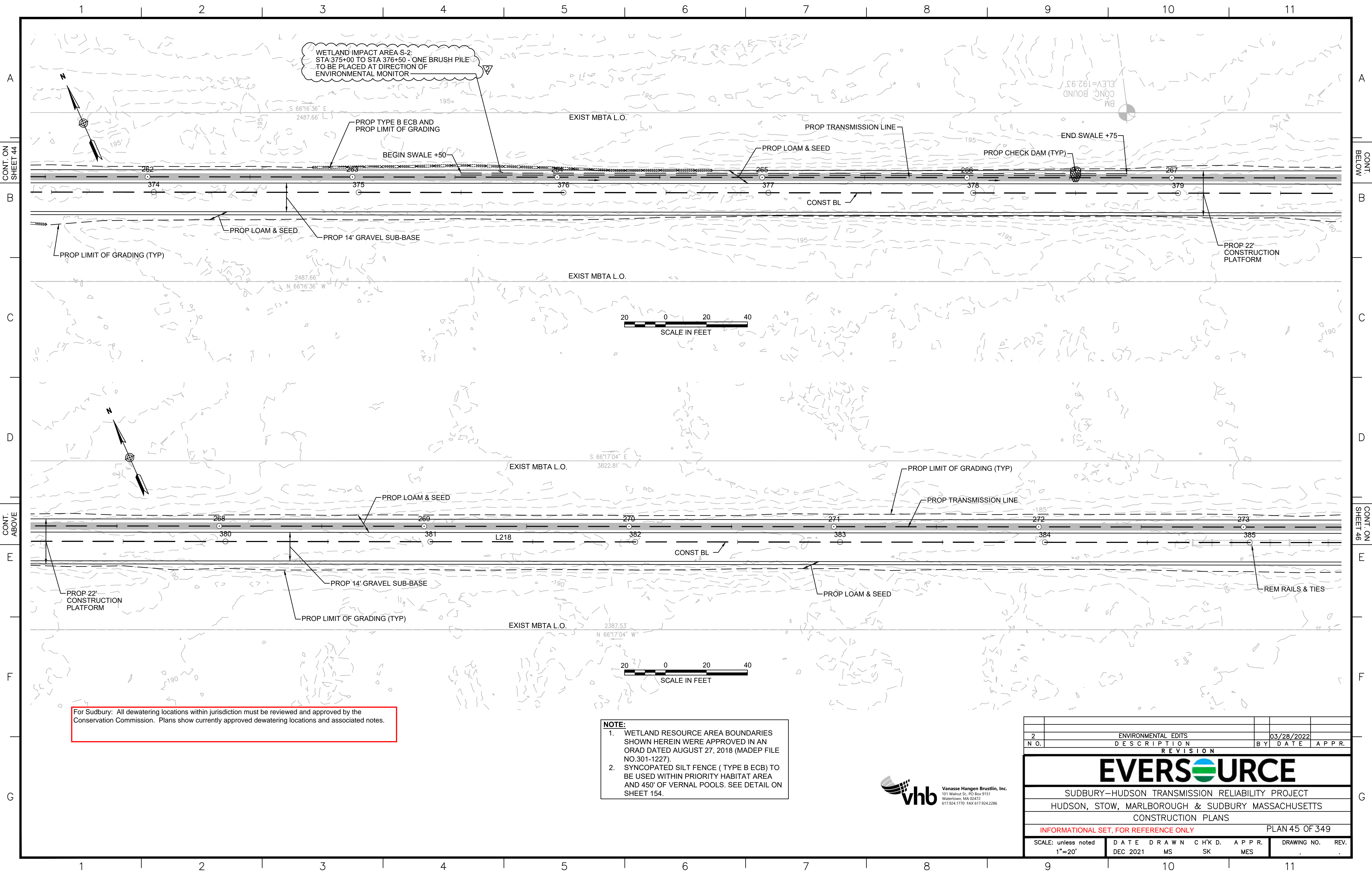
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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 8" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2		ENVIRONMENTAL EDITS	03/28/2022	
N.O.		DESCRIPTION	BY	DATE
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 44 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	DEC 2021	MS	SK	MES
DRAWING NO.				REV.





For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

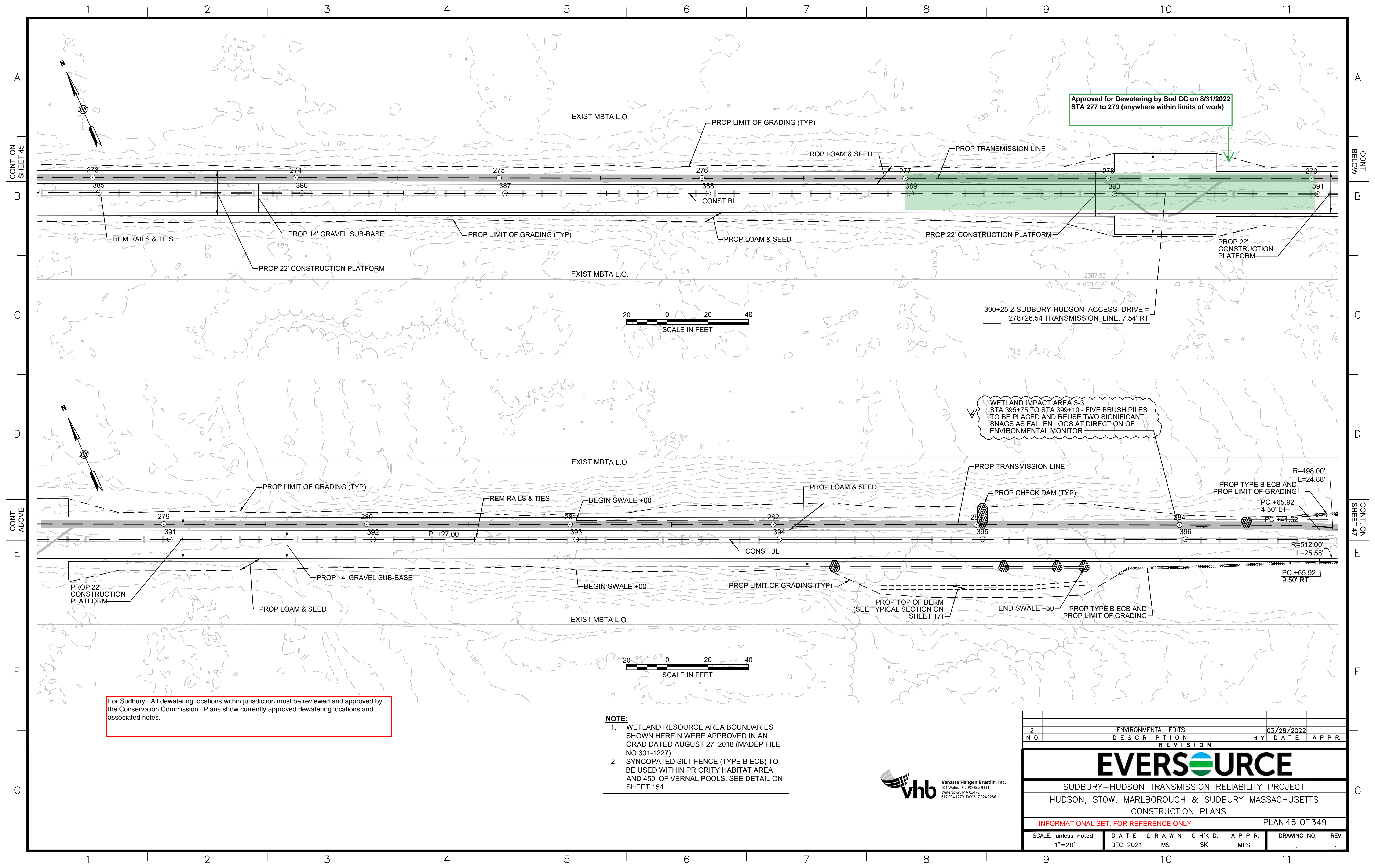
**NOTE:**

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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 45 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK
	APPR. MES	DRAWING NO.	REV.





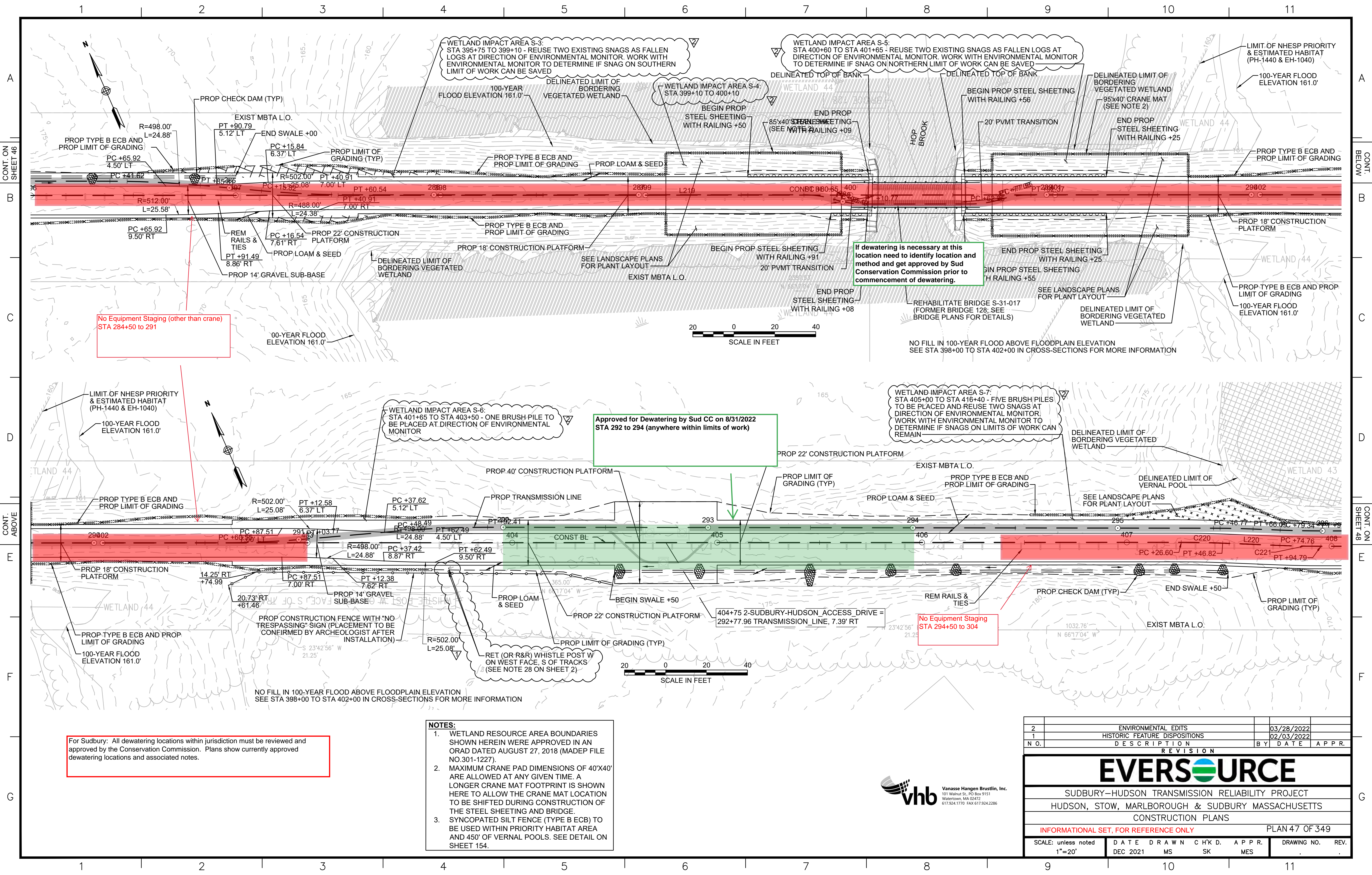
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

**NOTE:**  
 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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2		ENVIRONMENTAL EDITS	03/28/2022	
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 46 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
			DRAWING NO.	REV.





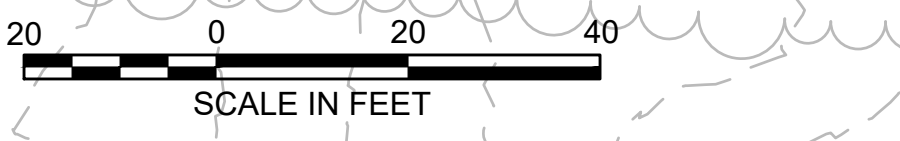
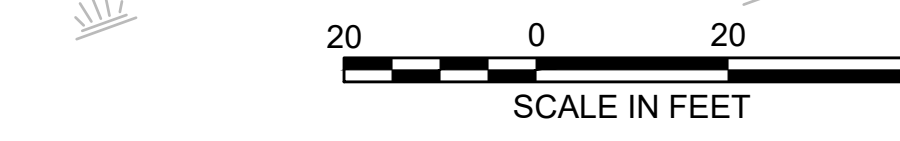
No Equipment Staging (other than crane) STA 284+50 to 291

Approved for Dewatering by Sud CC on 8/31/2022 STA 292 to 294 (anywhere within limits of work)

No Equipment Staging STA 294+50 to 304

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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 TO BE SHIFTED DURING CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



If dewatering is necessary at this location need to identify location and method and get approved by Sud Conservation Commission prior to commencement of dewatering.

NO FILL IN 100-YEAR FLOOD ABOVE FLOODPLAIN ELEVATION SEE STA 398+00 TO STA 402+00 IN CROSS-SECTIONS FOR MORE INFORMATION

NO FILL IN 100-YEAR FLOOD ABOVE FLOODPLAIN ELEVATION SEE STA 398+00 TO STA 402+00 IN CROSS-SECTIONS FOR MORE INFORMATION

2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 47 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D. APPR.
	DEC 2021	MS	SK MES
DRAWING NO.	REV.		





1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 47

CONT. ON SHEET 49

B

B

C

C

D

D

E

E

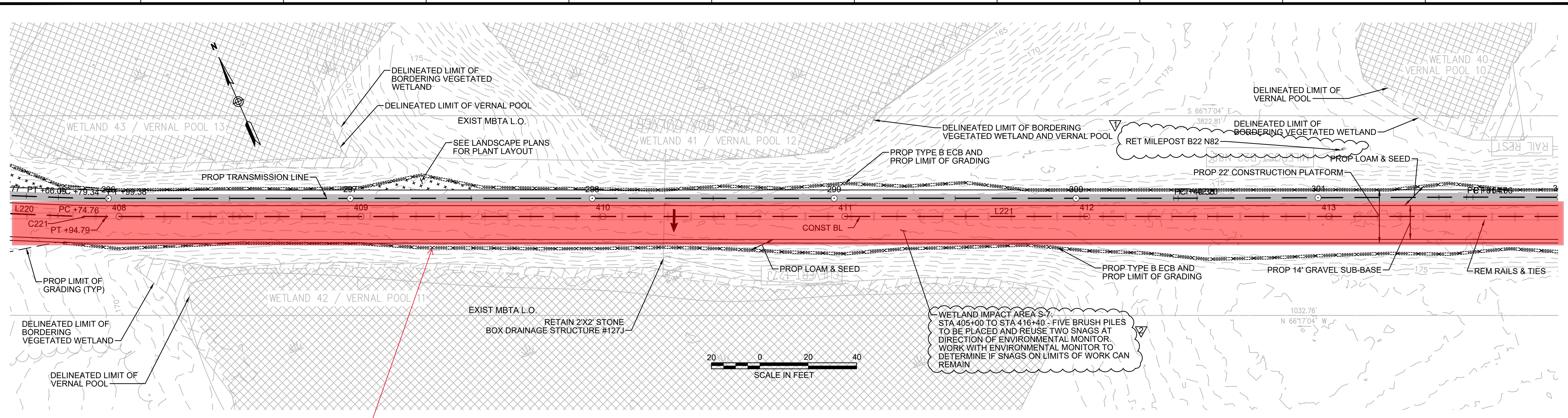
F

F

G

G

1 2 3 4 5 6 7 8 9 10 11



No Equipment Staging  
STA 294+50 to 304

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

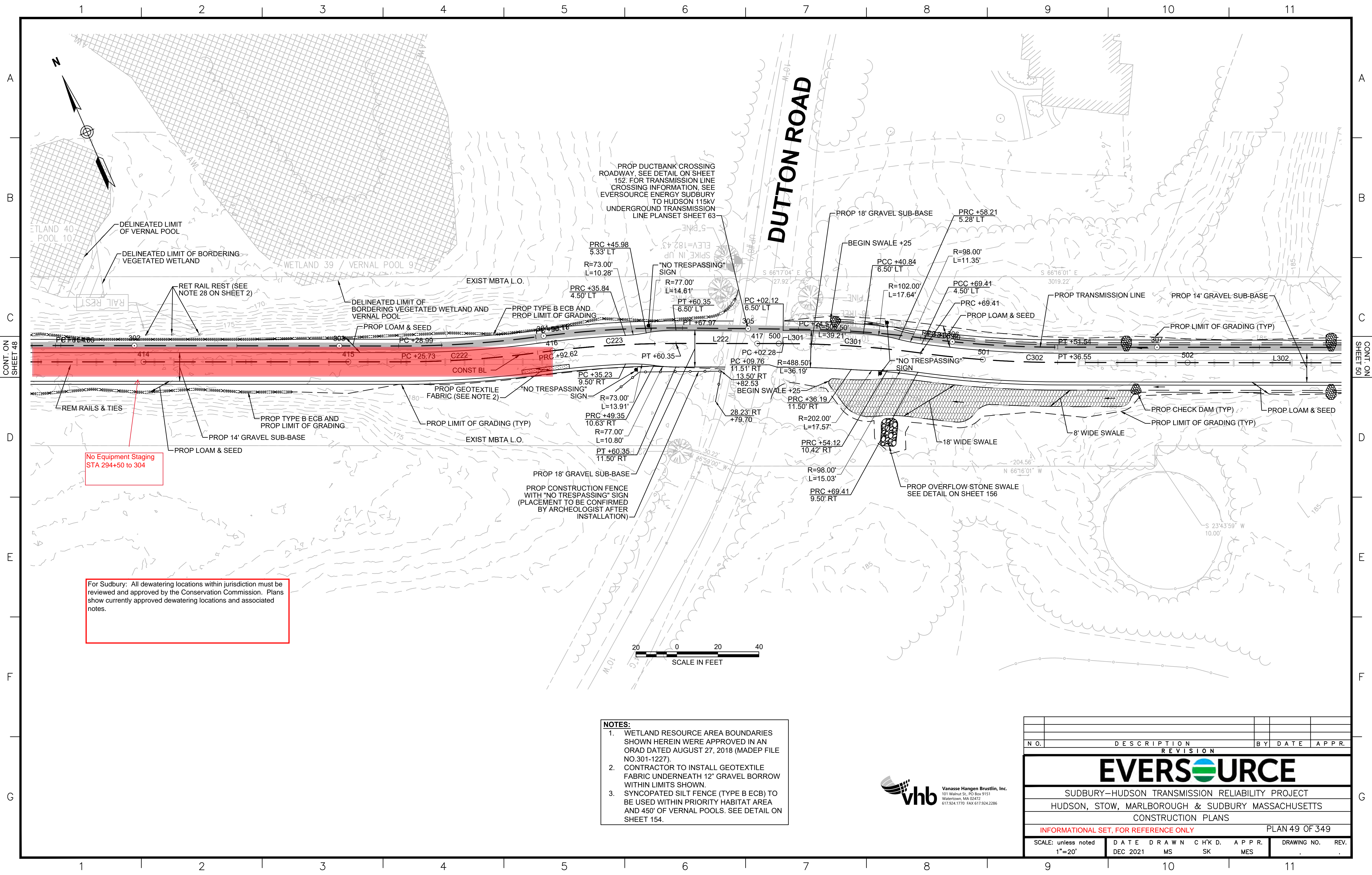
WETLAND IMPACT AREA S-7:  
STA 405+00 TO STA 416+40 - FIVE BRUSH PILES TO BE PLACED AND REUSE TWO SNAGS AT DIRECTION OF ENVIRONMENTAL MONITOR. WORK WITH ENVIRONMENTAL MONITOR TO DETERMINE IF SNAGS ON LIMITS OF WORK CAN REMAIN

**NOTE:**  
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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 48 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CH'K D. SK
		APPR. MES	DRAWING NO. REV.

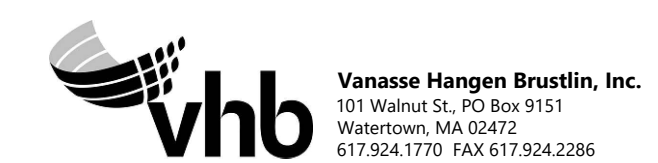




No Equipment Staging  
STA 294+50 to 304

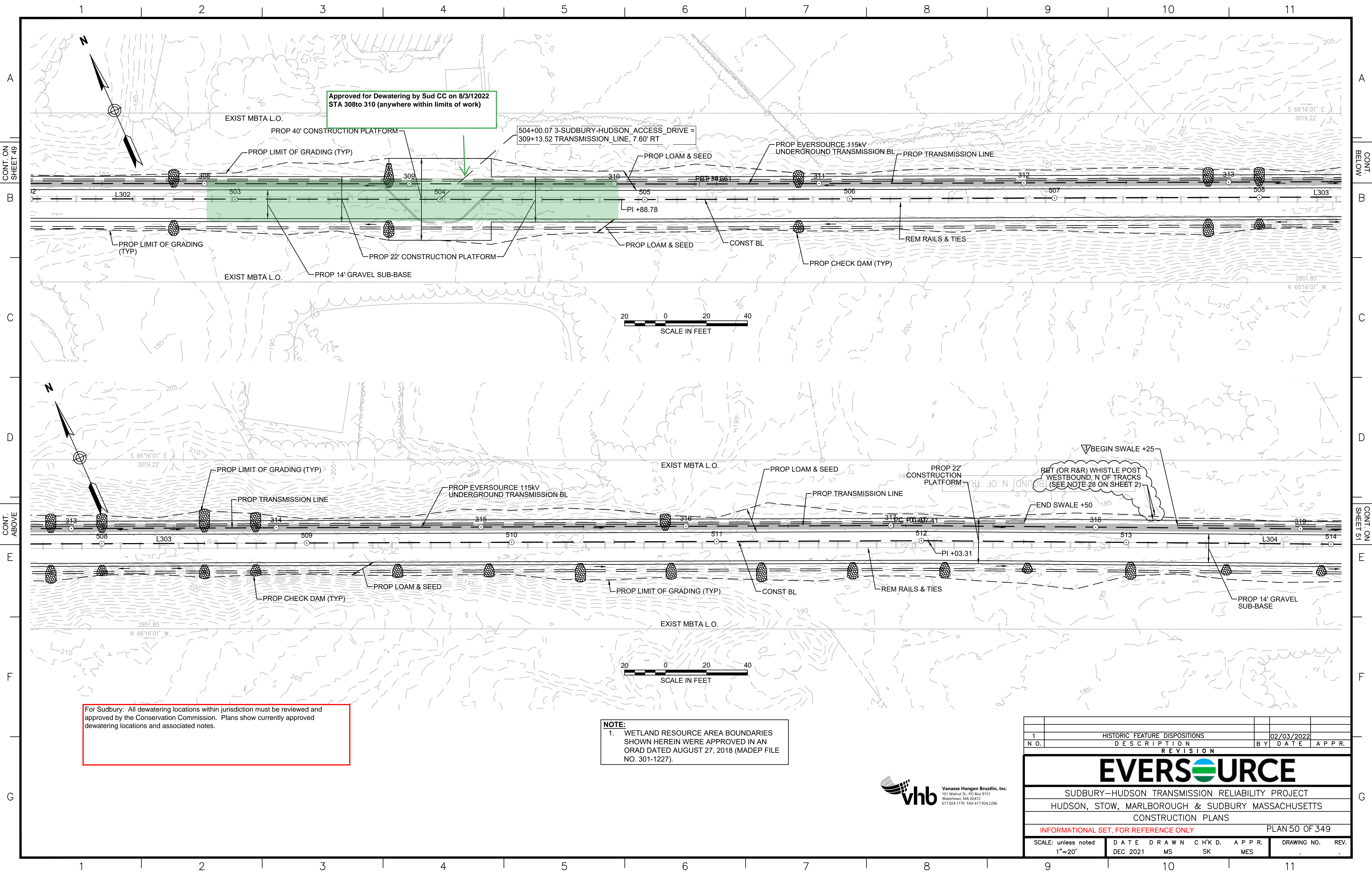
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 49 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.





Approved for Dewatering by Sud CC on 8/3/2022  
 STA 308 to 310 (anywhere within limits of work)

504+00.07 3-SUBBURY-HUDSON\_ACCESS\_DRIVE =  
 309+13.52 TRANSMISSION\_LINE, 7.60' RT

RET (OR R&R) WHISTLE POST  
 WESTBOUND, N OF TRACKS  
 (SEE NOTE 28 ON SHEET 2)

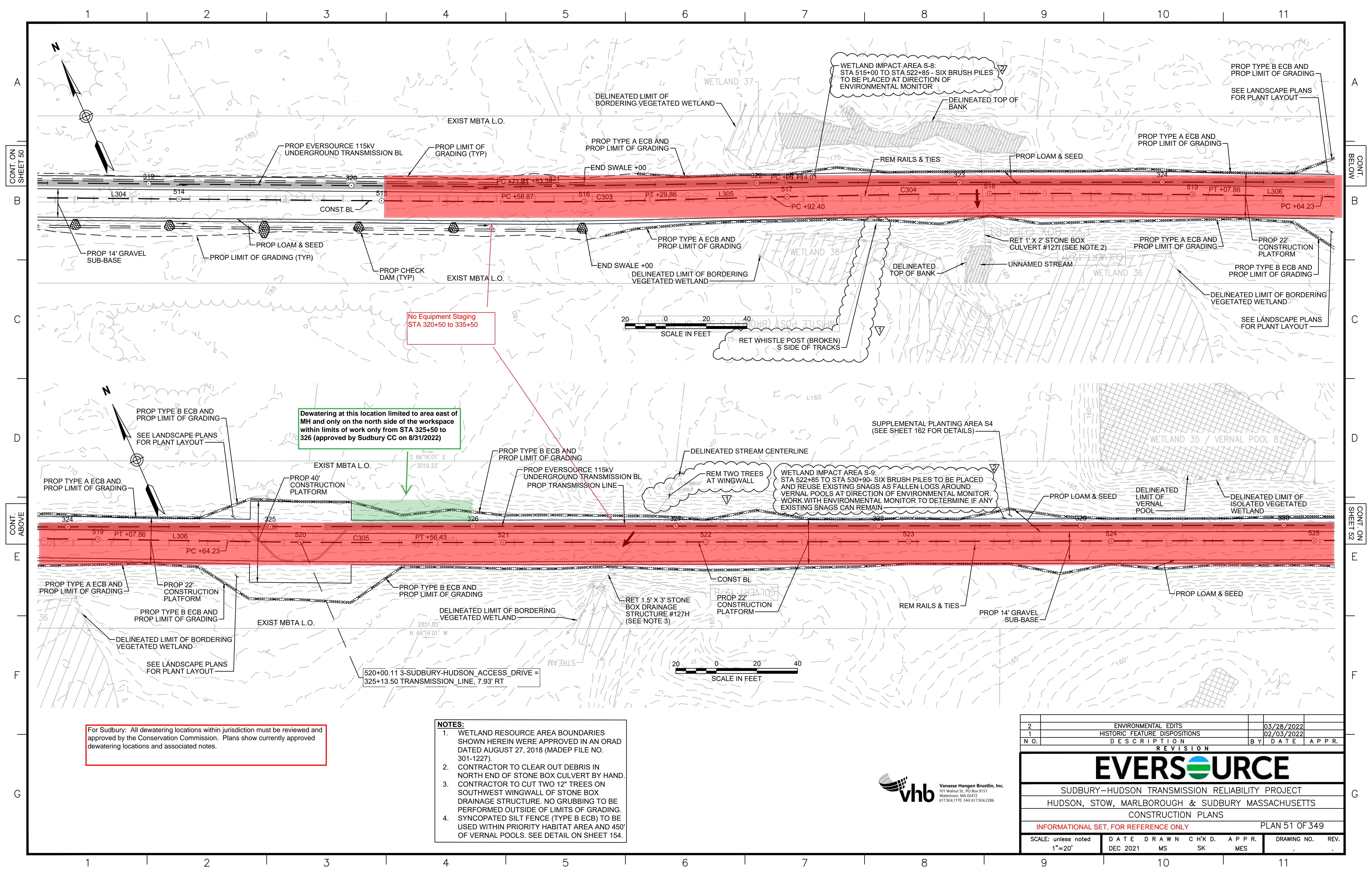
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

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



1		HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.		DESCRIPTION	BY	DATE
		REVISION	APPR.	
<b>EVERSOURCE</b>				
SUBBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUBBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 50 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	DEC 2021	MS	SK	MES
DRAWING NO.		REV.		





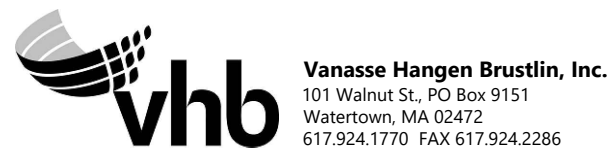
No Equipment Staging  
STA 320+50 to 335+50

Dewatering at this location limited to area east of MH and only on the north side of the workspace within limits of work only from STA 325+50 to 326 (approved by Sudbury CC on 8/31/2022)

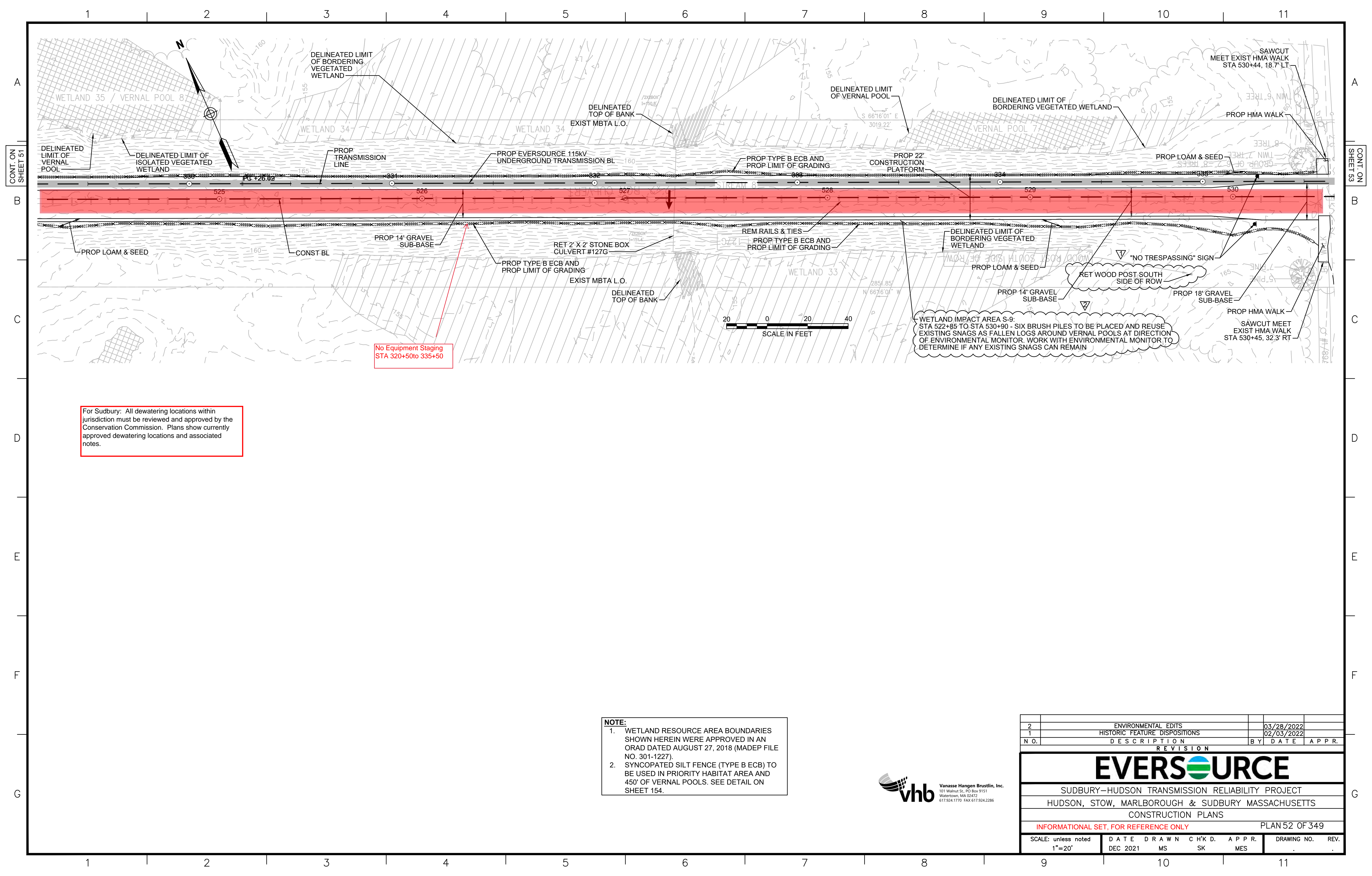
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 51 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D. APPR.
	DEC 2021	MS	SK MES
DRAWING NO.	REV.		







For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

No Equipment Staging  
STA 320+50 to 335+50

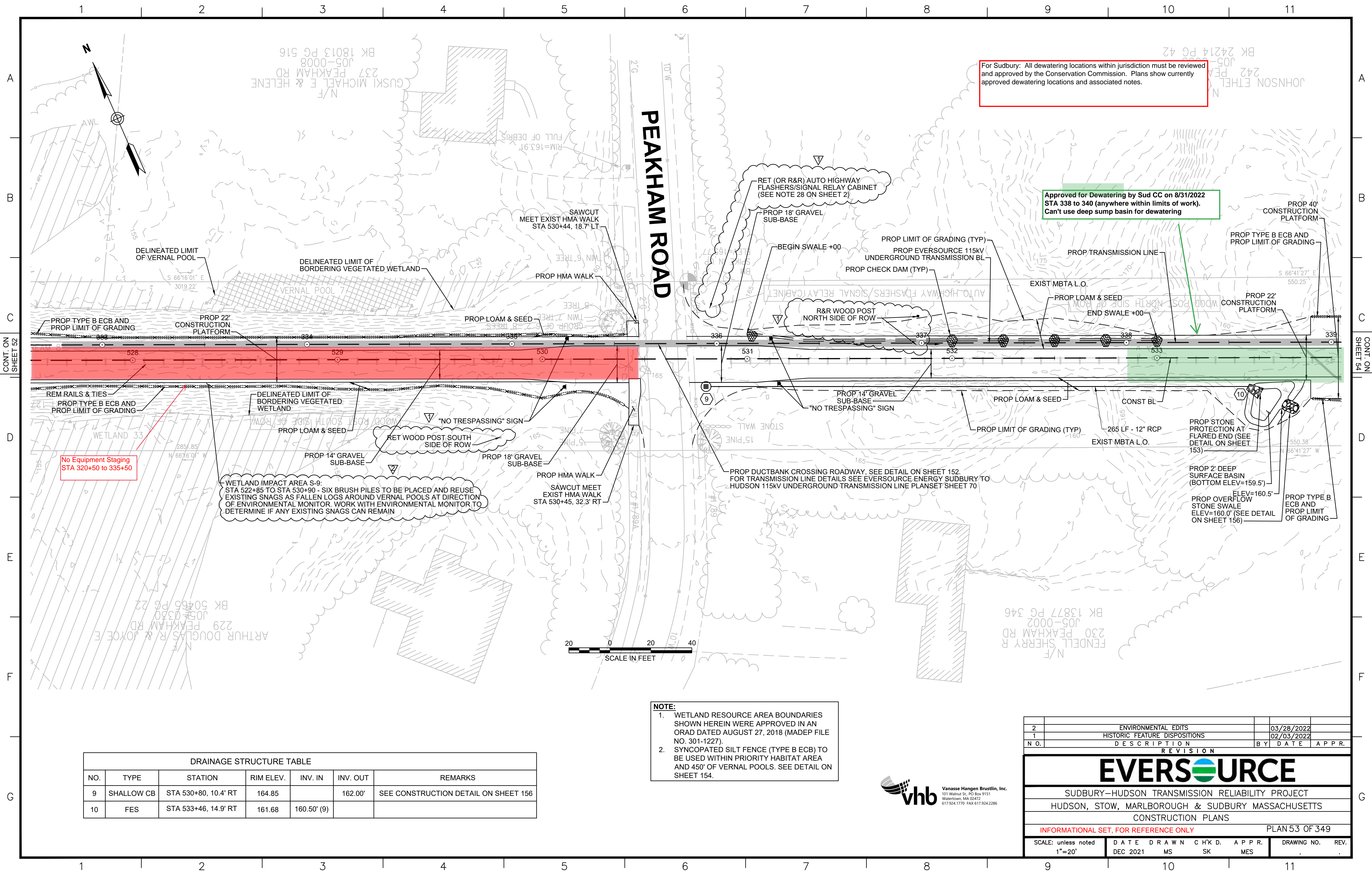
WETLAND IMPACT AREA S-9:  
STA 522+85 TO STA 530+90 - SIX BRUSH PILES TO BE PLACED AND REUSE EXISTING SNAGS AS FALLEN LOGS AROUND VERNAL POOLS AT DIRECTION OF ENVIRONMENTAL MONITOR. WORK WITH ENVIRONMENTAL MONITOR TO DETERMINE IF ANY EXISTING SNAGS CAN REMAIN

**NOTE:**  
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 IN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022		
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 52 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CH'K D. SK	APPR. MES
DRAWING NO.		REV.		





For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

Approved for Dewatering by Sud CC on 8/31/2022  
 STA 338 to 340 (anywhere within limits of work).  
 Can't use deep sump basin for dewatering

No Equipment Staging  
 STA 320+50 to 335+50

WETLAND IMPACT AREA S-9:  
 STA 522+85 TO STA 530+90 - SIX BRUSH PILES TO BE PLACED AND REUSE EXISTING SNAGS AS FALLEN LOGS AROUND VERNAL POOLS AT DIRECTION OF ENVIRONMENTAL MONITOR. WORK WITH ENVIRONMENTAL MONITOR TO DETERMINE IF ANY EXISTING SNAGS CAN REMAIN

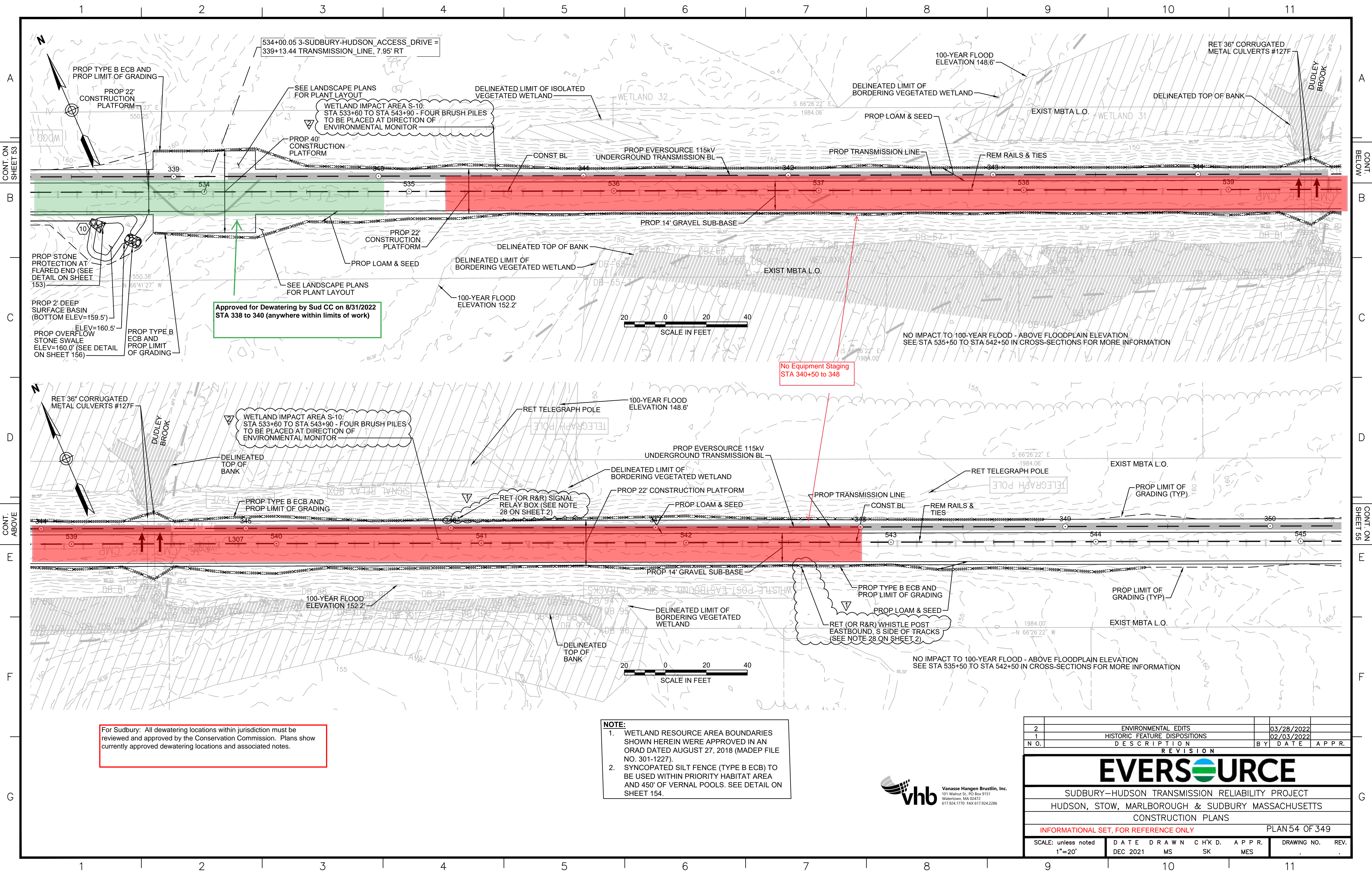
**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

DRAINAGE STRUCTURE TABLE						
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 156
10	FES	STA 533+46, 14.9' RT	161.68	160.50' (9)		

2	ENVIRONMENTAL EDITS	03/28/2022		
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 53 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			





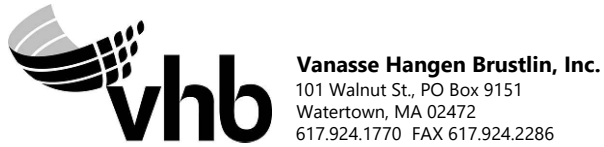


Approved for Dewatering by Sud CC on 8/31/2022  
 STA 338 to 340 (anywhere within limits of work)

No Equipment Staging  
 STA 340+50 to 348

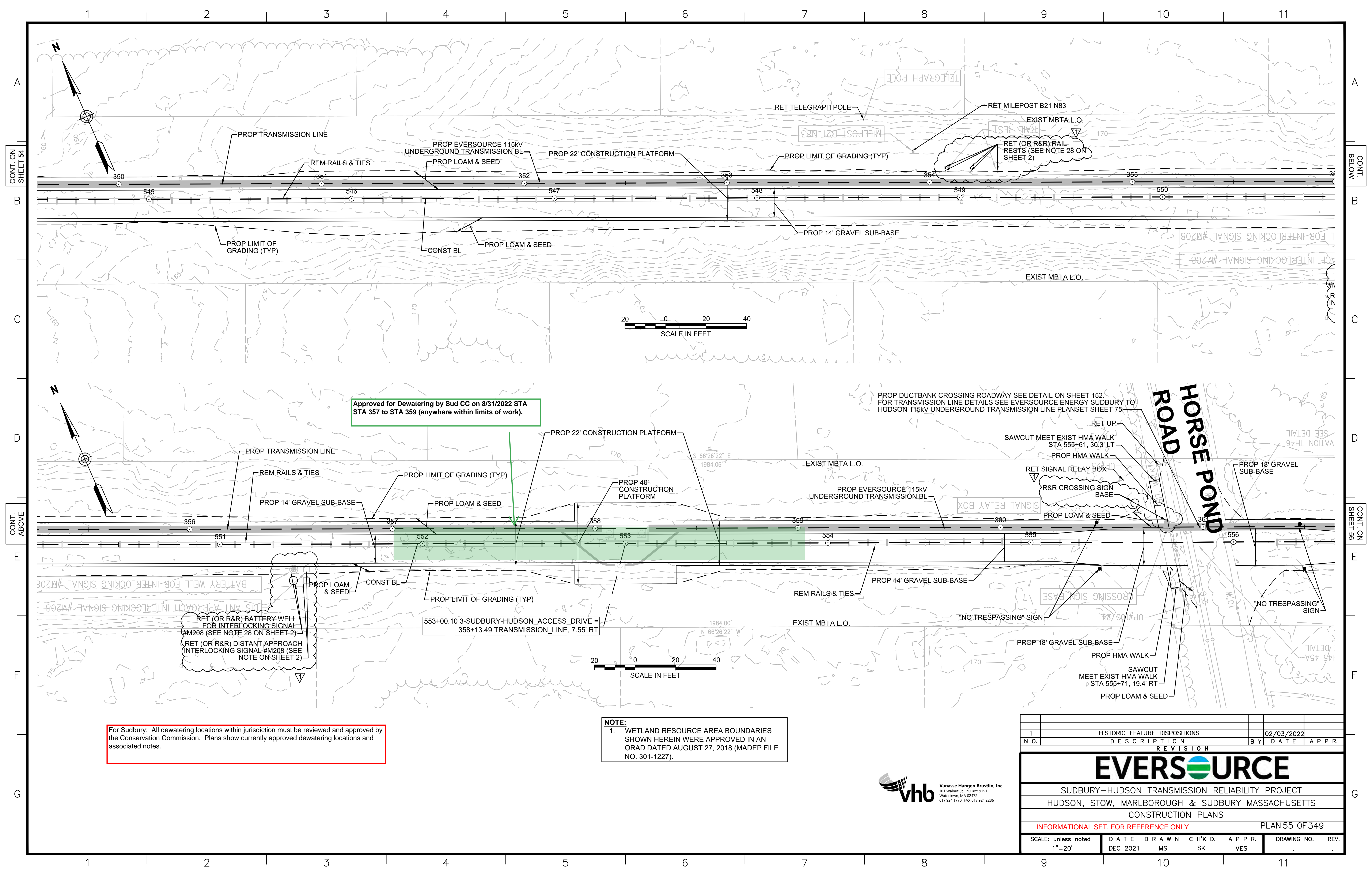
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

**NOTE:**  
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 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
<b>REVISION</b>			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 54 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK APP'R. MES
		DRAWING NO.	REV.
		11	





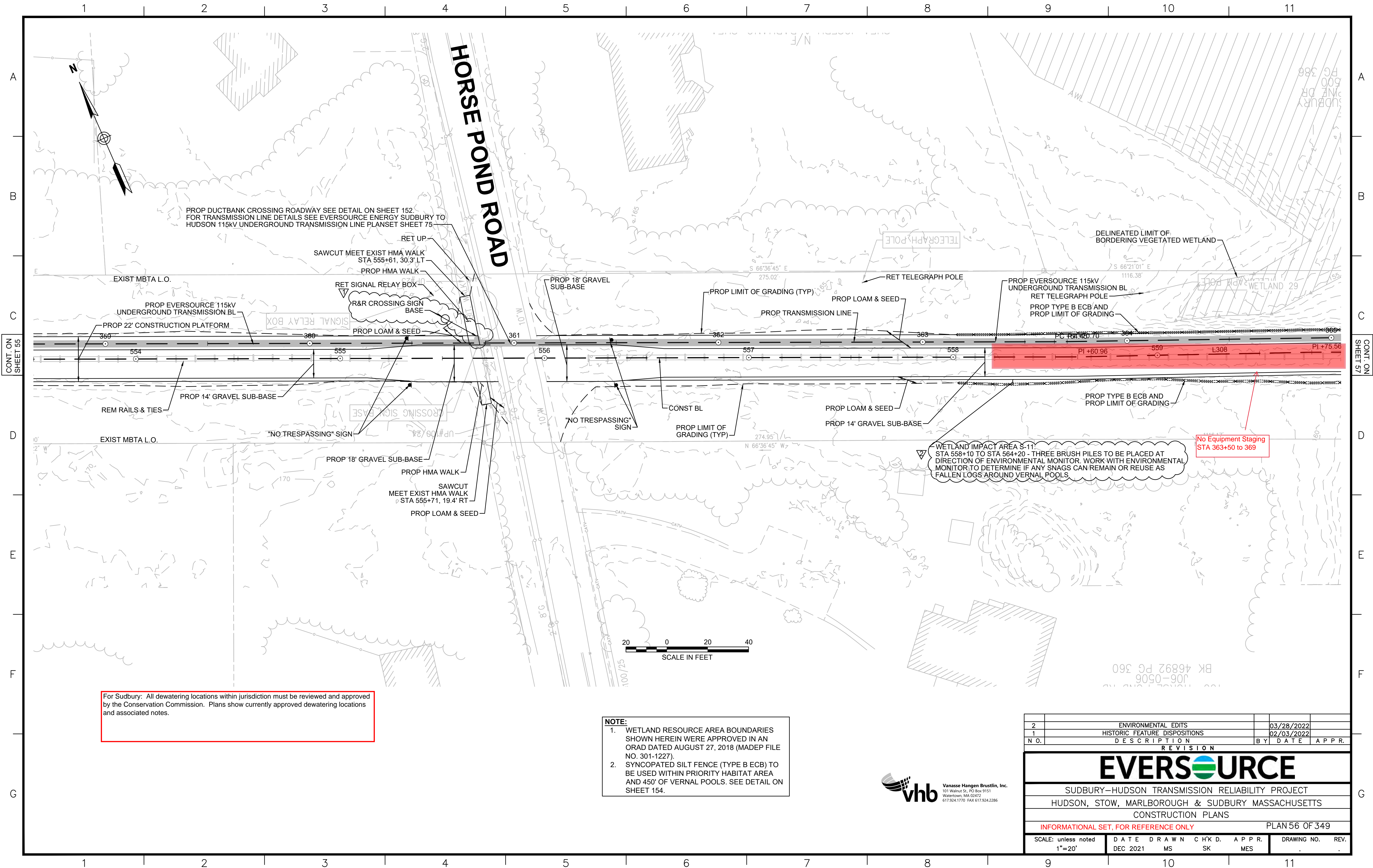
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

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



1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 55 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. APPR. SK MES
			DRAWING NO. REV.





PROP DUCTBANK CROSSING ROADWAY SEE DETAIL ON SHEET 152.  
FOR TRANSMISSION LINE DETAILS SEE EVERSOURCE ENERGY SUDBURY TO HUDSON 115KV UNDERGROUND TRANSMISSION LINE PLANSET SHEET 75

EXIST MBTA L.O.

PROP EVERSOURCE 115KV UNDERGROUND TRANSMISSION BL  
PROP 22' CONSTRUCTION PLATFORM

REM RAILS & TIES

EXIST MBTA L.O.

HORSE POND ROAD

RET UP  
SAWCUT MEET EXIST HMA WALK  
STA 555+61, 30.3' LT

PROP HMA WALK

RET SIGNAL RELAY BOX

R&R CROSSING SIGN BASE

PROP LOAM & SEED

PROP 18' GRAVEL SUB-BASE

PROP 14' GRAVEL SUB-BASE

PROP 18' GRAVEL SUB-BASE

PROP HMA WALK

SAWCUT MEET EXIST HMA WALK  
STA 555+71, 19.4' RT

PROP LOAM & SEED

PROP 18' GRAVEL SUB-BASE

PROP LIMIT OF GRADING (TYP)

PROP TRANSMISSION LINE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LIMIT OF GRADING (TYP)

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

RET TELEGRAPH POLE

PROP LOAM & SEED

PROP TYPE B ECB AND  
PROP LIMIT OF GRADING

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

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PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

PROP 14' GRAVEL SUB-BASE

PROP LOAM & SEED

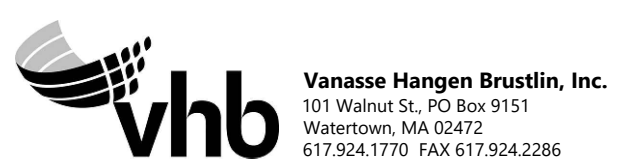
PROP 14' GRAVEL SUB-BASE

WETLAND IMPACT AREA S-11  
STA 558+10 TO STA 564+20 - THREE BRUSH PILES TO BE PLACED AT  
DIRECTION OF ENVIRONMENTAL MONITOR. WORK WITH ENVIRONMENTAL  
MONITOR TO DETERMINE IF ANY SNAGS CAN REMAIN OR REUSE AS  
FALLEN LOGS AROUND VERNAL POOLS

No Equipment Staging  
STA 363+50 to 369

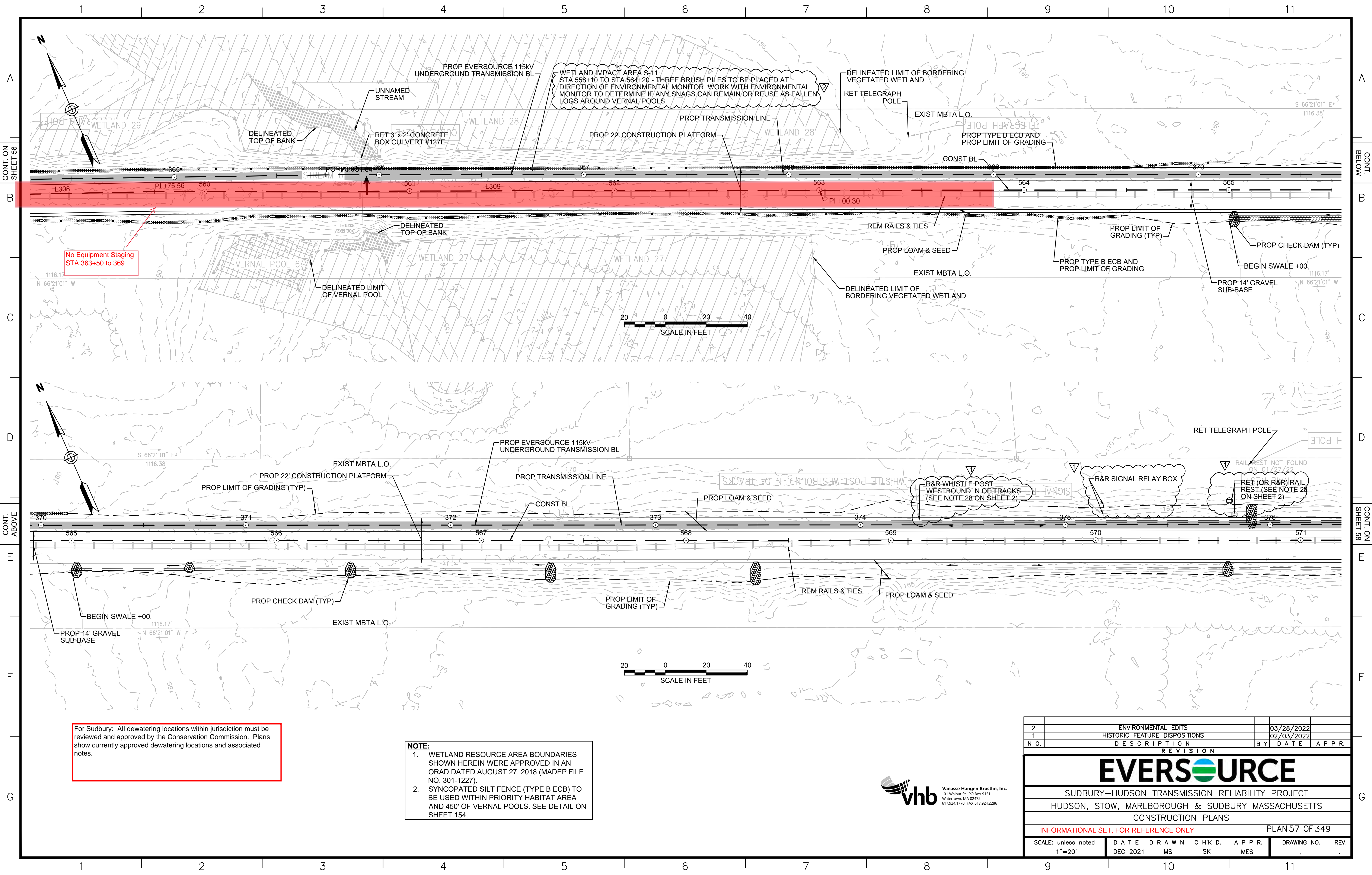
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

**NOTE:**  
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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 56 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK
	APPR. MES	DRAWING NO.	REV.





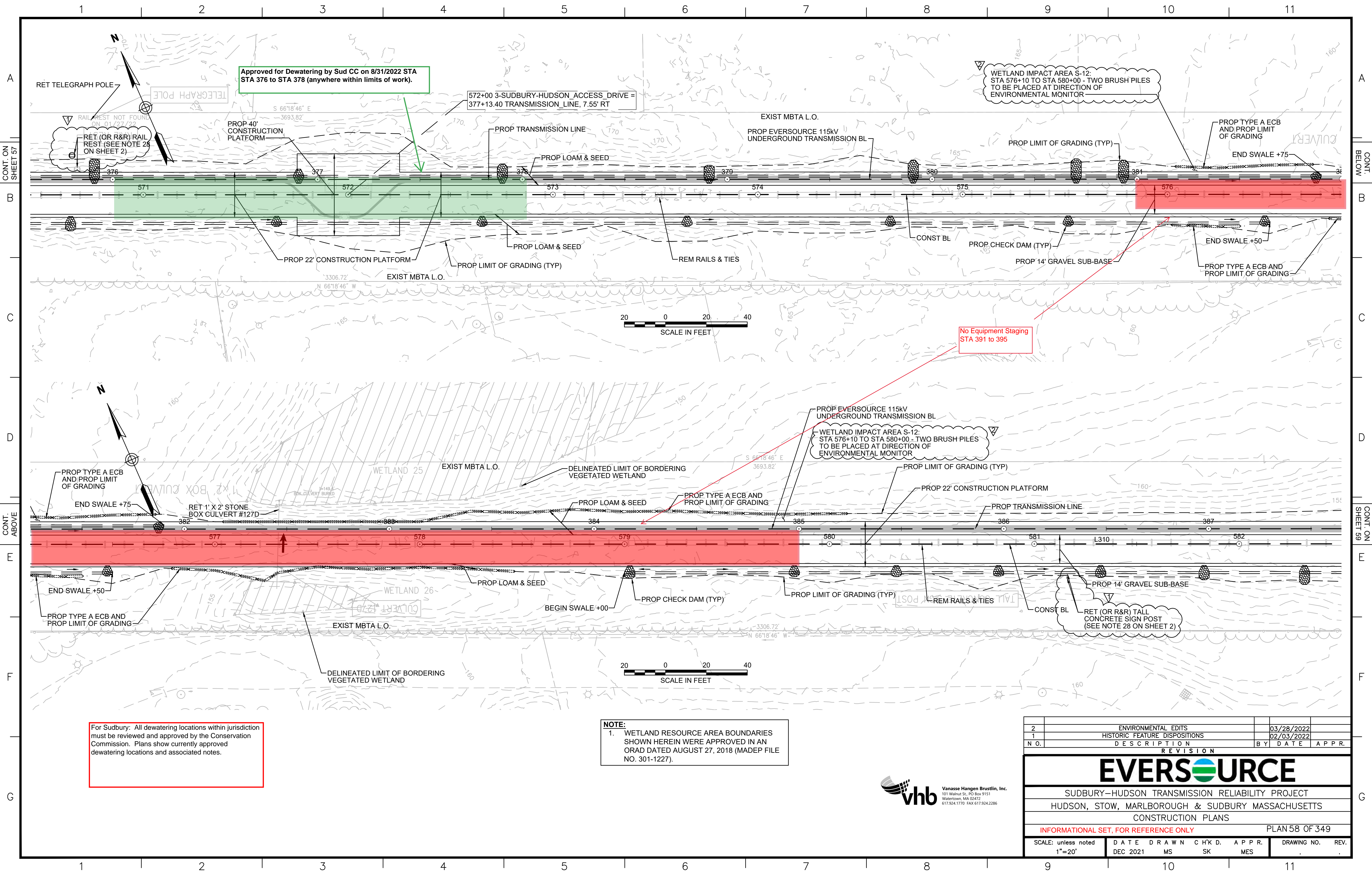
For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- NOTE:**
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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



2	ENVIRONMENTAL EDITS	03/28/2022		
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 57 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			





Approved for Dewatering by Sud CC on 8/31/2022 STA 376 to STA 378 (anywhere within limits of work).

WETLAND IMPACT AREA S-12: STA 576+10 TO STA 580+00 - TWO BRUSH PILES TO BE PLACED AT DIRECTION OF ENVIRONMENTAL MONITOR

No Equipment Staging STA 391 to 395

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

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

NO.	DESCRIPTION	REVISION		
		BY	DATE	APPR.
2	ENVIRONMENTAL EDITS		03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS		02/03/2022	

**EVERSOURCE**

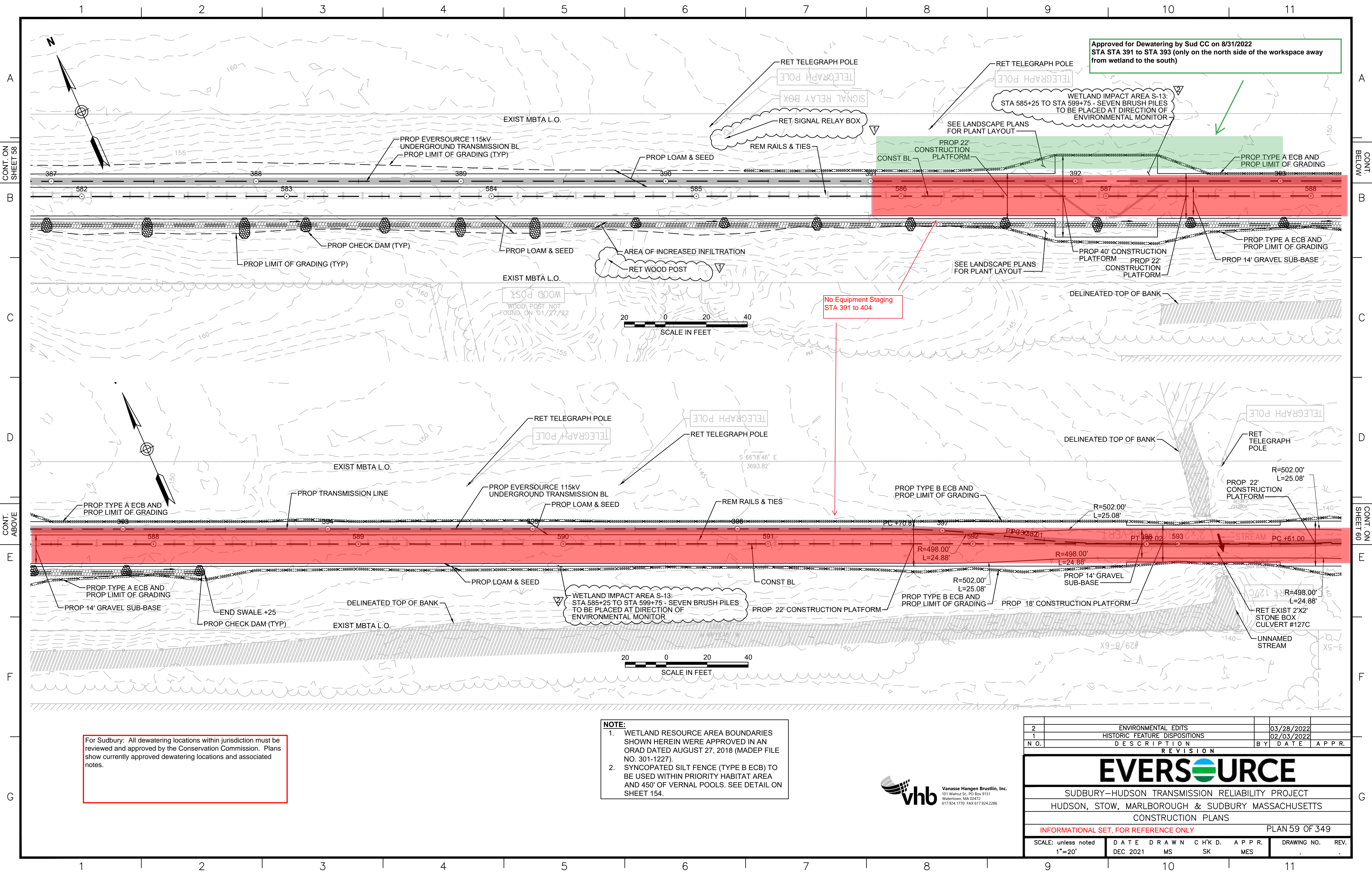
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
 CONSTRUCTION PLANS

INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 58 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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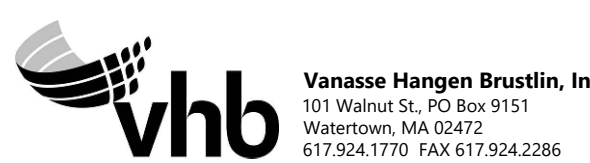




Approved for Dewatering by Sud CC on 8/31/2022  
 STA STA 391 to STA 393 (only on the north side of the workspace away from wetland to the south)

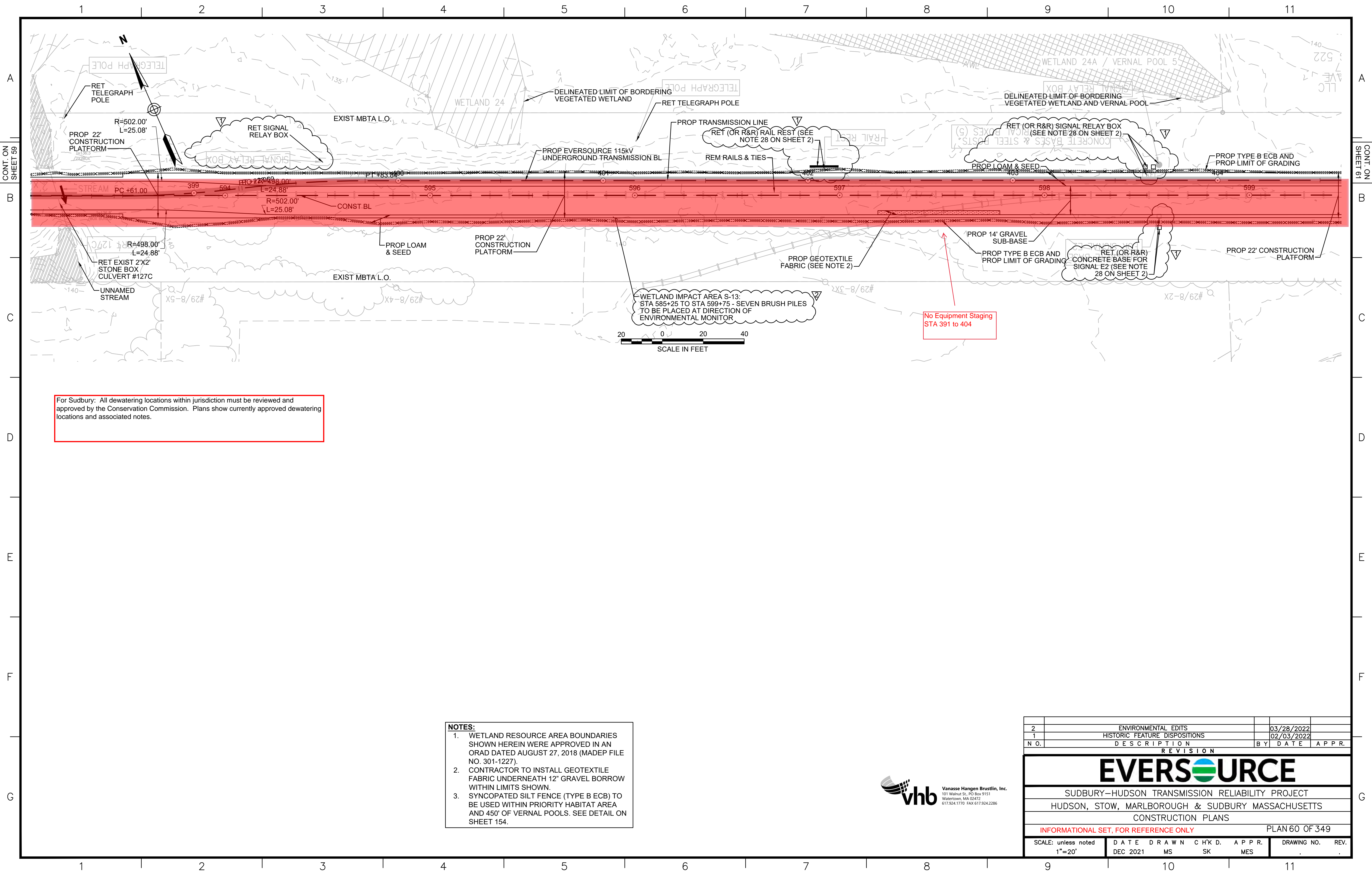
**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).  
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 59 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK
	APPR. MES	DRAWING NO.	REV.





For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.



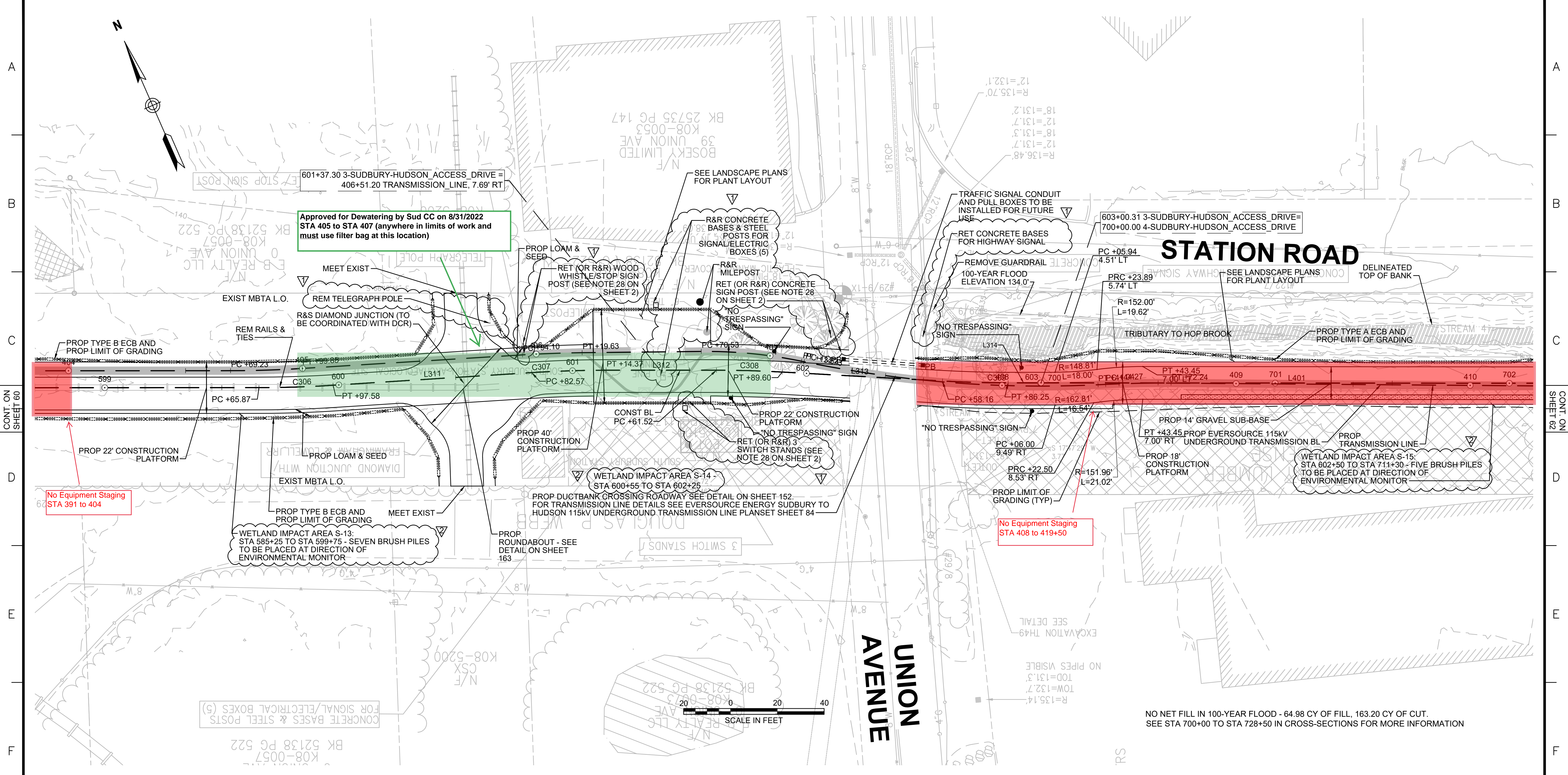
2	ENVIRONMENTAL EDITS	03/28/2022		
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 60 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.			REV.	



1 2 3 4 5 6 7 8 9 10 11

A  
B  
C  
D  
E  
F  
G

A  
B  
C  
D  
E  
F  
G



Approved for Dewatering by Sud CC on 8/31/2022  
STA 405 to STA 407 (anywhere in limits of work and must use filter bag at this location)

No Equipment Staging  
STA 391 to 404

No Equipment Staging  
STA 408 to 419+50

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

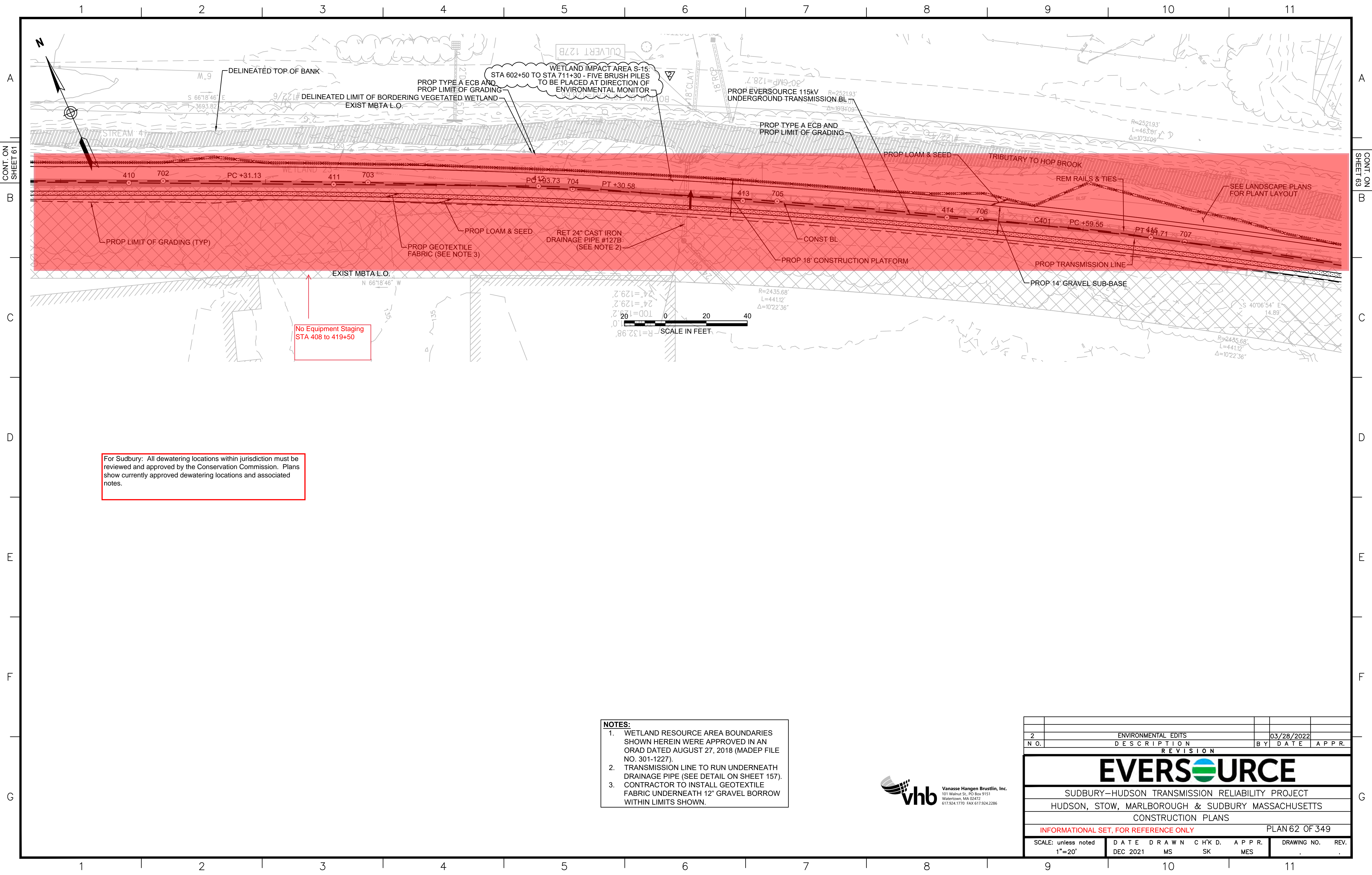
- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

NO NET FILL IN 100-YEAR FLOOD - 64.98 CY OF FILL, 163.20 CY OF CUT.  
SEE STA 700+00 TO STA 728+50 IN CROSS-SECTIONS FOR MORE INFORMATION



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 61 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. APPR. SK MES
			DRAWING NO. REV. 11





For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

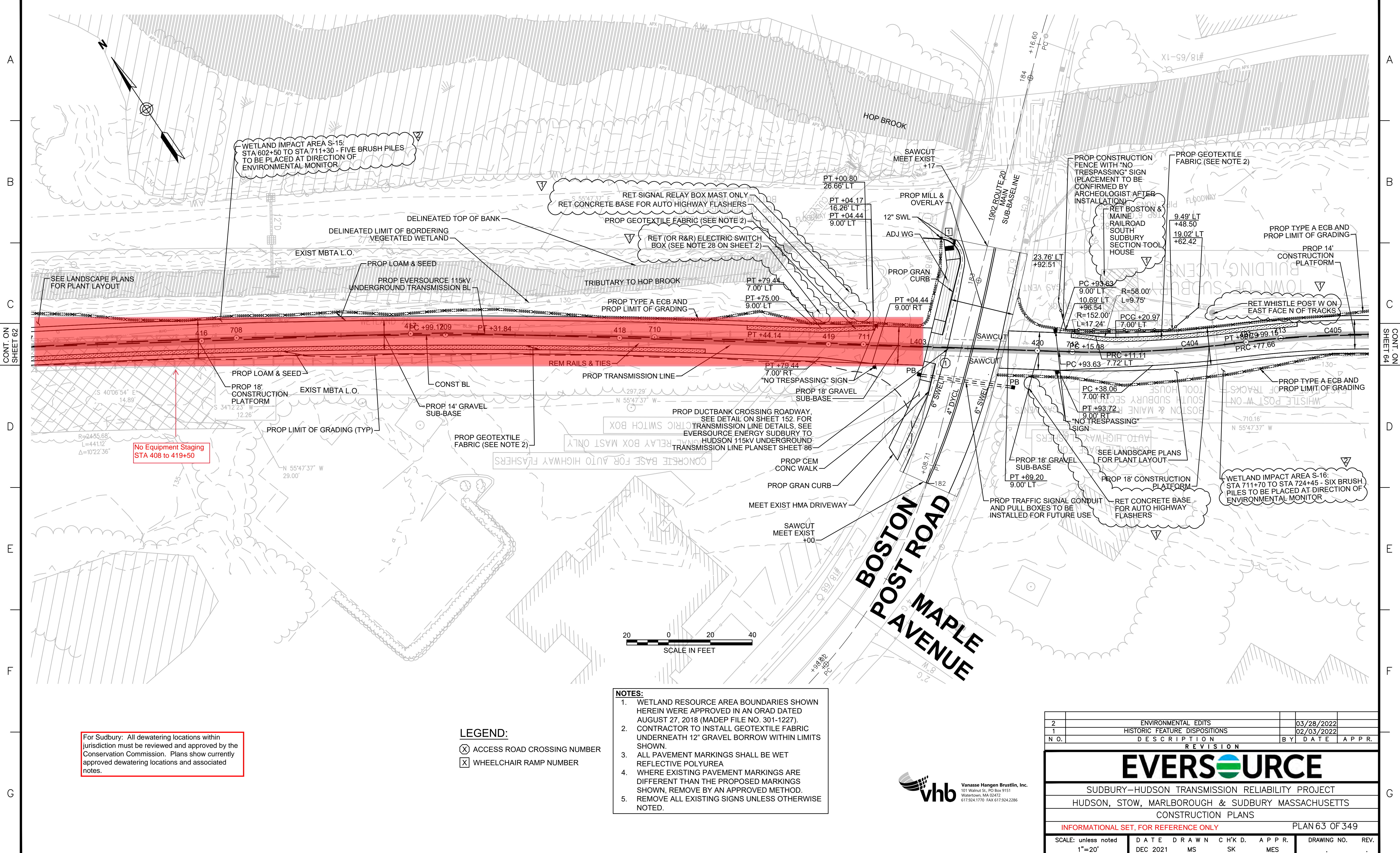
No Equipment Staging  
STA 408 to 419+50

- 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 157).
  3. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.



2		ENVIRONMENTAL EDITS		03/28/2022	
N O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 62 OF 349	
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.





No Equipment Staging  
STA 408 to 419+50

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.



**LEGEND:**  
 (X) ACCESS ROAD CROSSING NUMBER  
 (X) WHEELCHAIR RAMP NUMBER

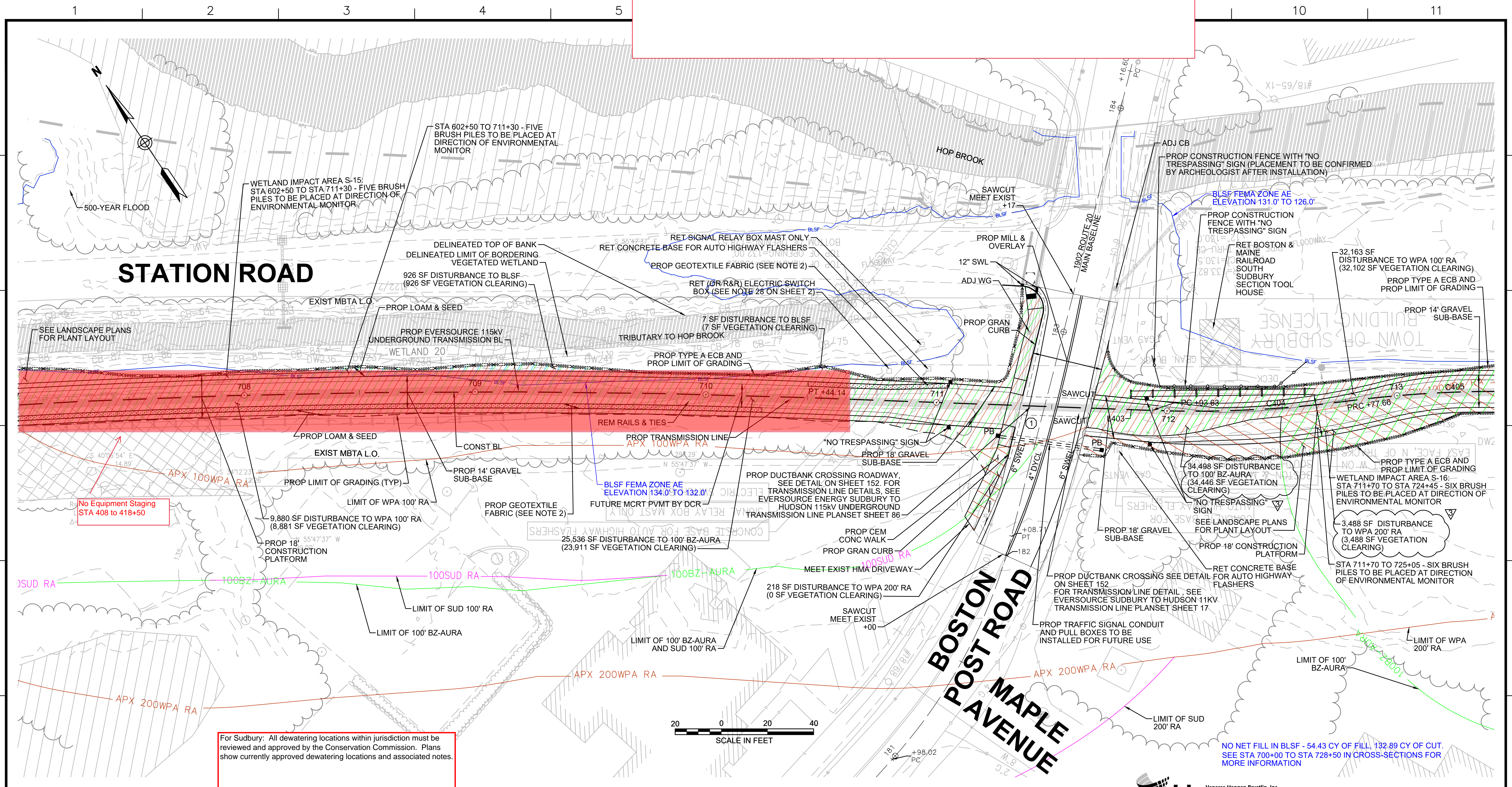
- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  3. ALL PAVEMENT MARKINGS SHALL BE WET REFLECTIVE POLYUREA
  4. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN THE PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
  5. REMOVE ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
<b>REVISION</b>			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 63 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK APPR. MES
DRAWING NO.	REV.		



This duplicate sheet shows the change in limits of work at the tool house (east side of Boston Post Road)  
Need to retain or remove and replace section of track in front of tool house



For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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.

**LEGEND:**

- (X) ACCESS ROAD CROSSING NUMBER
- (X) WHEELCHAIR RAMP NUMBER

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)		



**vhb** Vanasse Hangen Brustlin, Inc.  
101 Walnut St., PO Box 9151  
Watertown, MA 02472  
617-254-1770 FAX 617-254-2286

3	PATH REALIGNMENT 710+50 TO 713+50	08/19/2022	
N.O.	DESCRIPTION	BY	DATE
	REVISION		APPR.

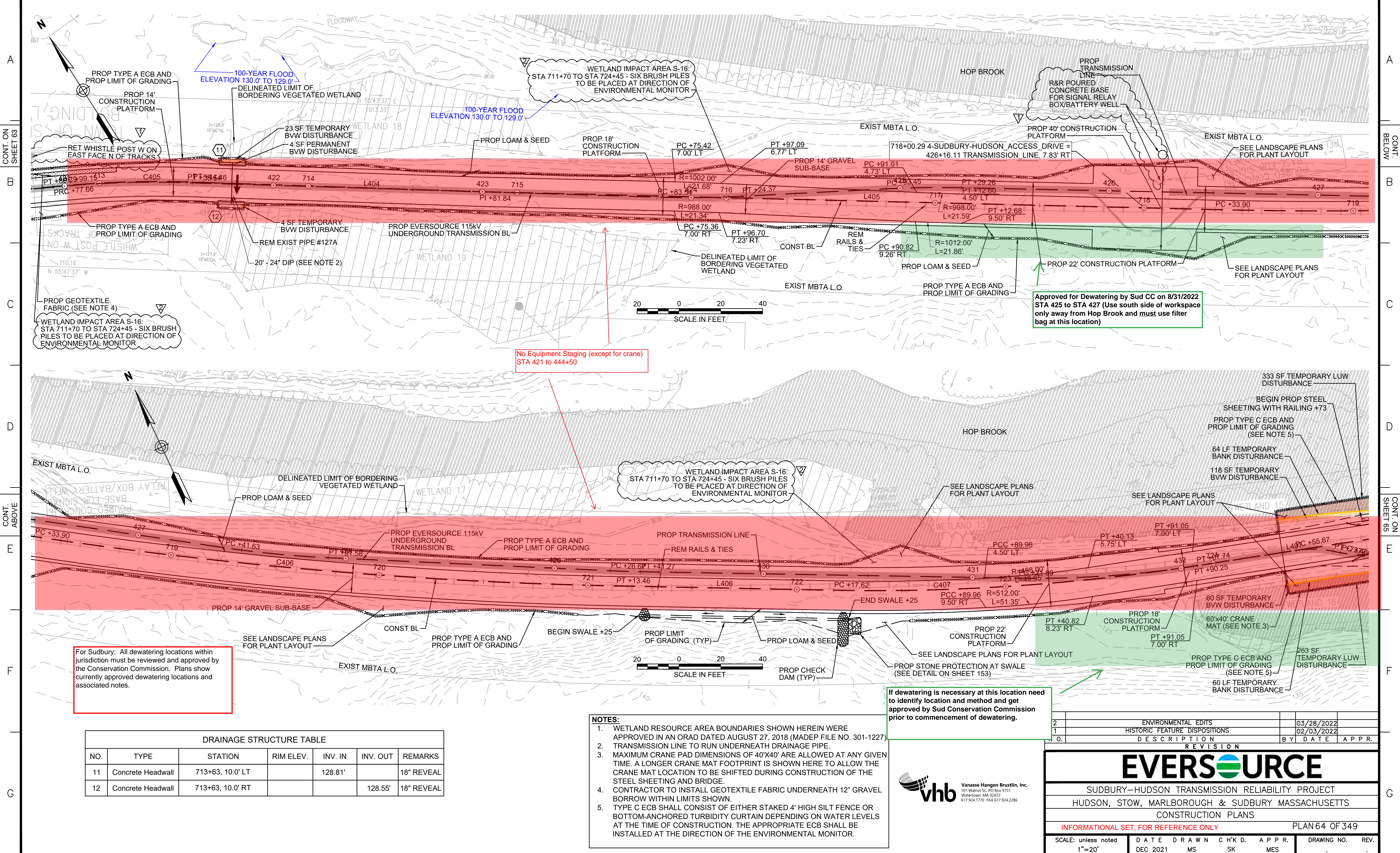
**EVERSOURCE**

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

PLAN 63 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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CONT. ON SHEET 63  
CONT. ABOVE  
CONT. ON SHEET 65

CONT. BELOW  
CONT. ON SHEET 65

PROP TYPE A ECB AND PROP LIMIT OF GRADING  
PROP 14' CONSTRUCTION PLATFORM  
RET WHISTLE POST W ON EAST FACE N OF TRACKS  
100-YEAR FLOOD ELEVATION 130.0' TO 129.0'  
DELINEATED LIMIT OF BORDERING VEGETATED WETLAND  
WETLAND 18  
23 SF TEMPORARY BVW DISTURBANCE  
4 SF PERMANENT BVW DISTURBANCE  
PROP LOAM & SEED  
PROP 18' CONSTRUCTION PLATFORM  
PC +75.42 7.00' LT  
PT +97.09 6.77' LT  
PROP 14' GRAVEL SUB-BASE  
PC +91.01 4.73' LT  
718+00.29 4-SUDBURY-HUDSON ACCESS DRIVE = 426+16.11 TRANSMISSION LINE. 7.83' RT  
R&R Poured CONCRETE BASE FOR SIGNAL RELAY BOX/BATTERY WELL  
PROP 40' CONSTRUCTION PLATFORM  
EXIST MBTA L.O.  
SEE LANDSCAPE PLANS FOR PLANT LAYOUT

WETLAND IMPACT AREA S-16: STA 711+70 TO STA 724+45 - SIX BRUSH PILES TO BE PLACED AT DIRECTION OF ENVIRONMENTAL MONITOR

WETLAND 19  
4 SF TEMPORARY BVW DISTURBANCE  
REM EXIST PIPE #127A  
20' - 24' DIP (SEE NOTE 2)  
PROP EVERSOURCE 115KV UNDERGROUND TRANSMISSION BL  
DELINEATED LIMIT OF BORDERING VEGETATED WETLAND  
EXIST MBTA L.O.  
PROP LOAM & SEED  
PROP TYPE A ECB AND PROP LIMIT OF GRADING  
WETLAND 17  
WETLAND IMPACT AREA S-16: STA 711+70 TO STA 724+45 - SIX BRUSH PILES TO BE PLACED AT DIRECTION OF ENVIRONMENTAL MONITOR  
HOP BROOK  
SEE LANDSCAPE PLANS FOR PLANT LAYOUT  
333 SF TEMPORARY LUW DISTURBANCE  
BEGIN PROP STEEL SHEETING WITH RAILING +73  
PROP TYPE C ECB AND PROP LIMIT OF GRADING (SEE NOTE 5)  
64 LF TEMPORARY BANK DISTURBANCE  
118 SF TEMPORARY BVW DISTURBANCE  
WETLAND 15  
WETLAND 16  
60 SF TEMPORARY BVW DISTURBANCE  
60'x40' CRANE MAT (SEE NOTE 3)  
263 SF TEMPORARY LUW DISTURBANCE  
PROP TYPE C ECB AND PROP LIMIT OF GRADING (SEE NOTE 5)  
60 LF TEMPORARY BANK DISTURBANCE

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

If dewatering is necessary at this location need to identify location and method and get approved by Sud Conservation Commission prior to commencement of dewatering.

- 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.
  3. 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.
  4. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  5. 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.

**DRAINAGE STRUCTURE TABLE**

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

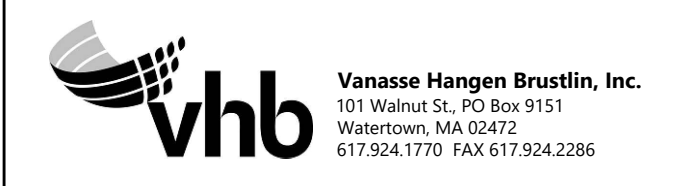
**NOTES:**

2 ENVIRONMENTAL EDITS 03/28/2022  
1 HISTORIC FEATURE DISPOSITIONS 02/03/2022  
0. DESCRIPTION BY DATE APPR.

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS  
INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 64 OF 349

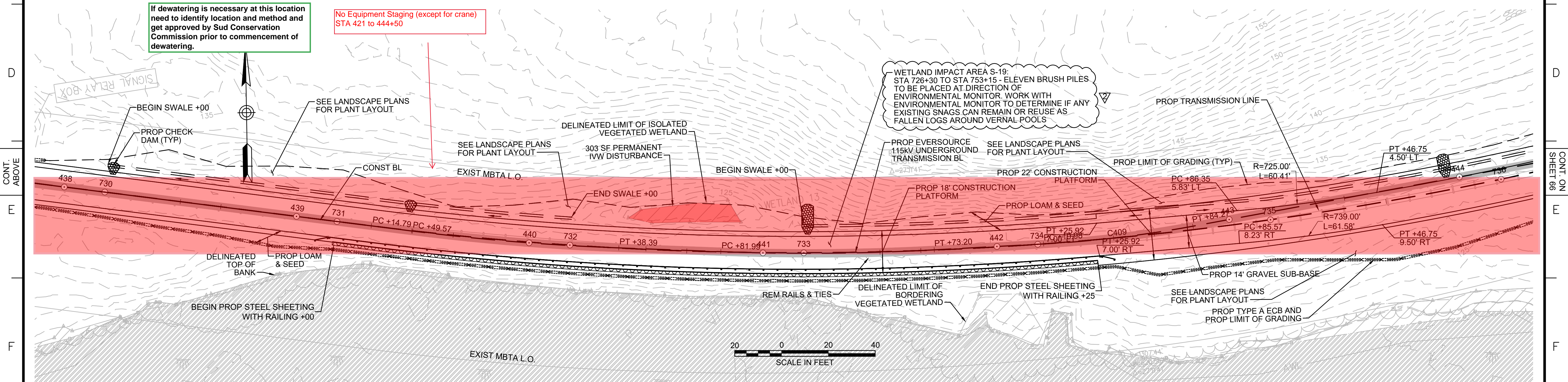
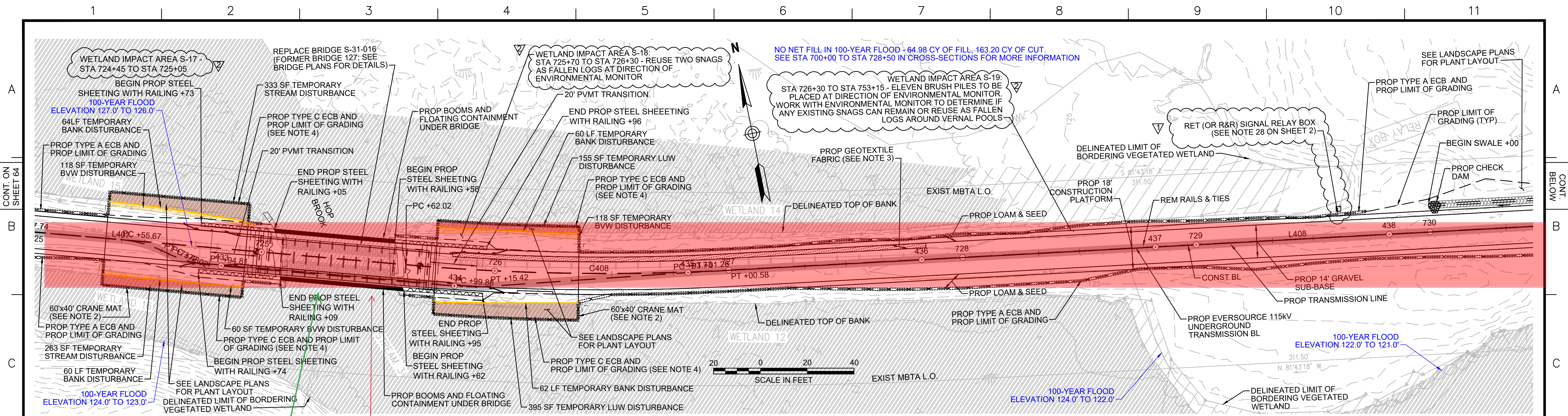
SCALE: unless noted 1"=20'  
DATE DEC 2021  
DRAWN MS  
CHK'D SK  
APP'R. MES  
DRAWING NO. REV.



Approved for Dewatering by Sud CC on 8/31/2022  
STA 425 to STA 427 (Use south side of workspace only away from Hop Brook and must use filter bag at this location)

No Equipment Staging (except for crane)  
STA 421 to 444+50





If dewatering is necessary at this location need to identify location and method and get approved by Sud Conservation Commission prior to commencement of dewatering.

No Equipment Staging (except for crane) STA 421 to 444+50

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- 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 TO BE SHIFTED DURING CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
  3. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  4. TYPE C ECB SHALL CONSIST OF EITHER STAKE 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.

2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE

**EVERSOURCE**

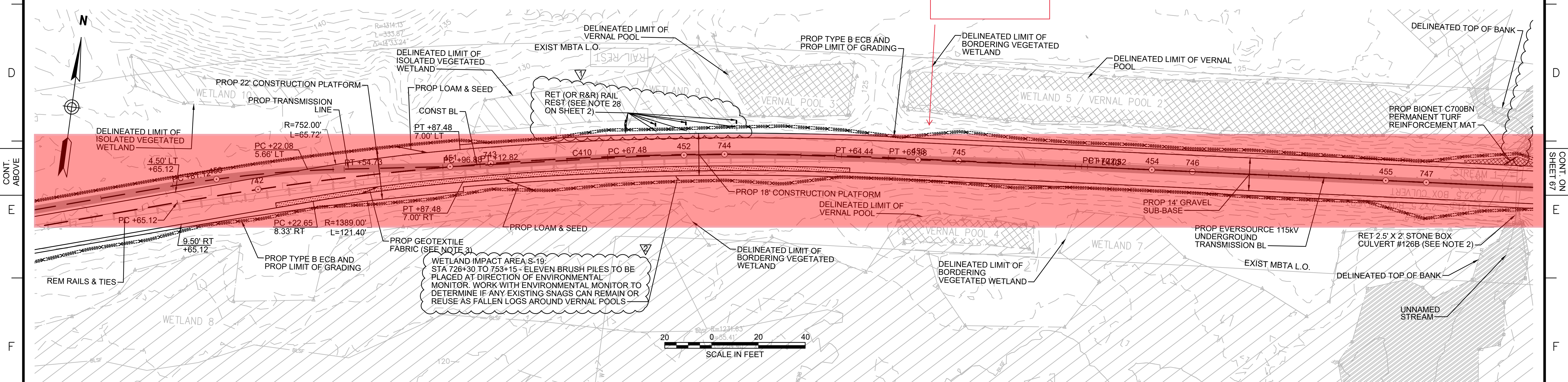
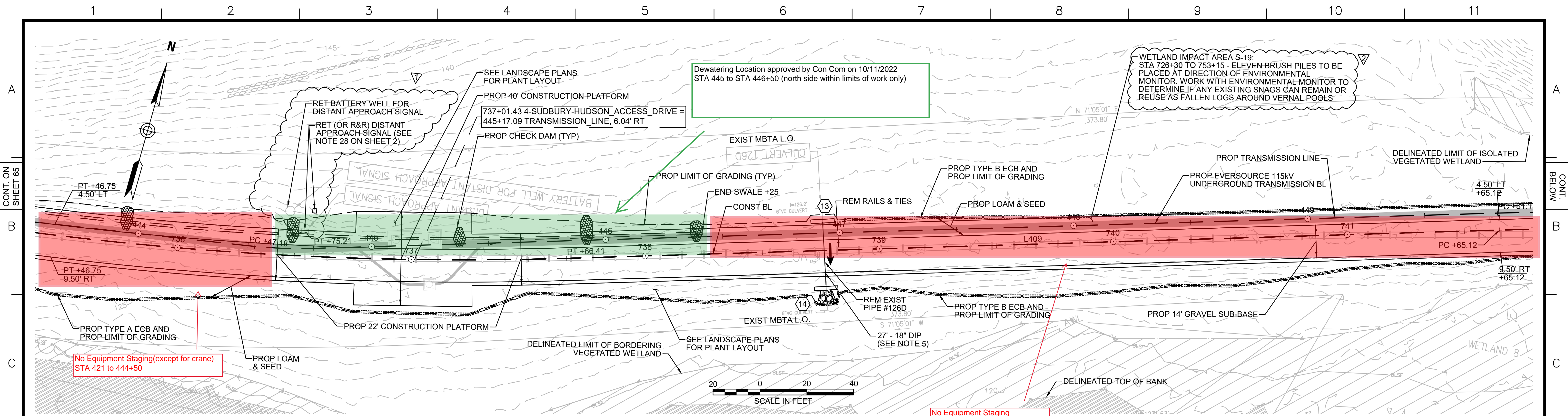
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
CONSTRUCTION PLANS

INFORMATIONAL SET, FOR REFERENCE ONLY PLAN 65 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	A.P.P.R. MES	DRAWING NO.	REV.
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NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
13	Concrete Headwall	738+77, 12.0' LT			127.10'	
14	Concrete Headwall	738+77, 15.4' RT		125.07'		

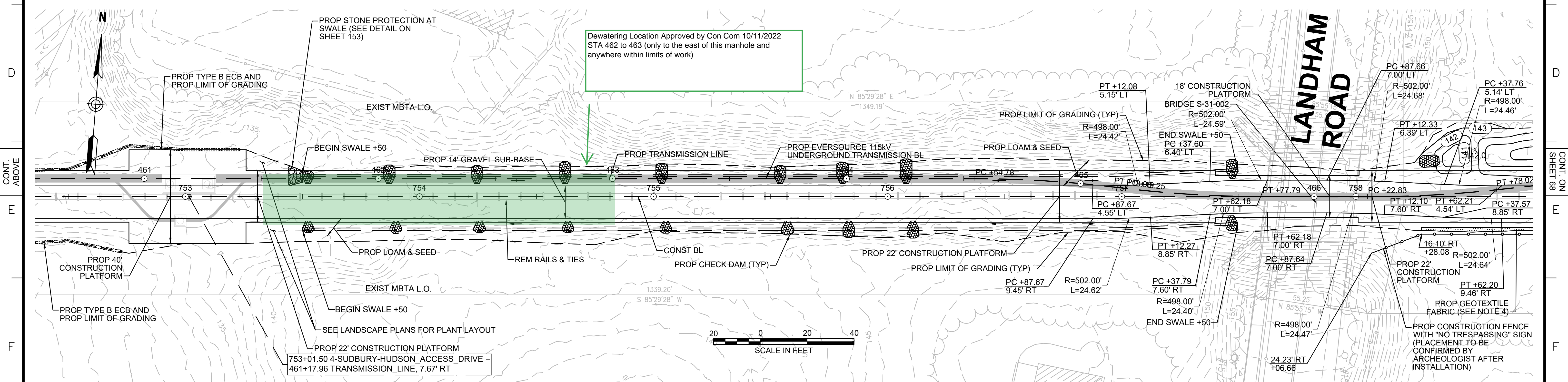
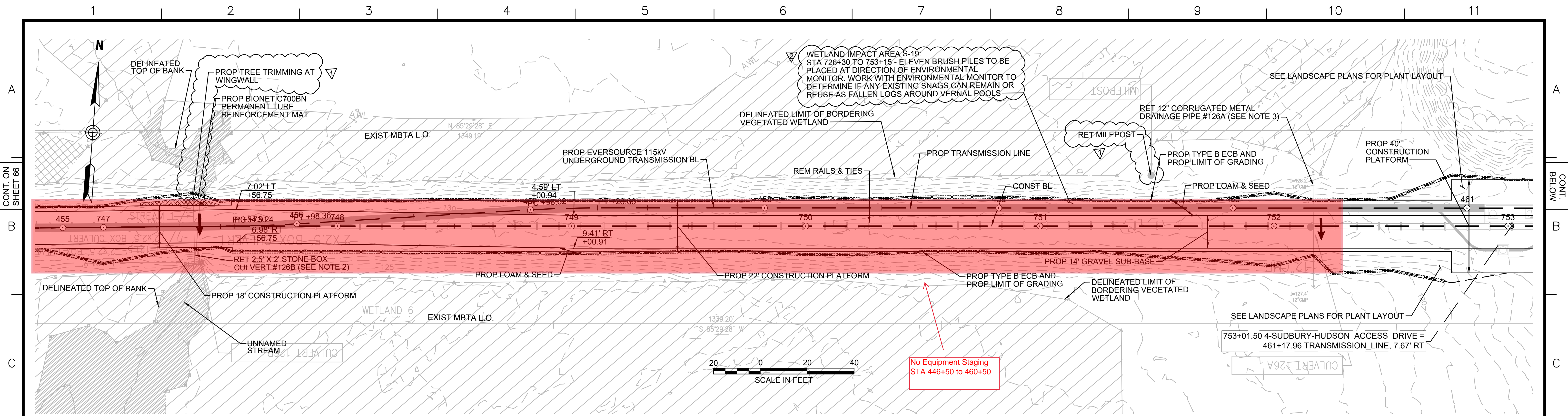
- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
  3. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
  4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.
  5. TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE. SEE DETAIL ON SHEET 157.

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.



2	ENVIRONMENTAL EDITS	03/28/2022		
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022		
N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 66 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	DEC 2021	MS	SK	MES
DRAWING NO.				REV.

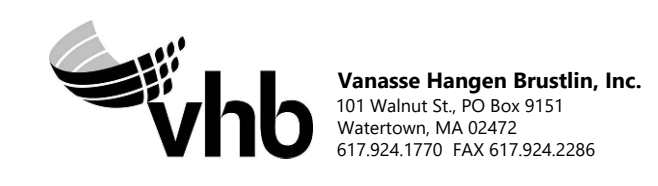




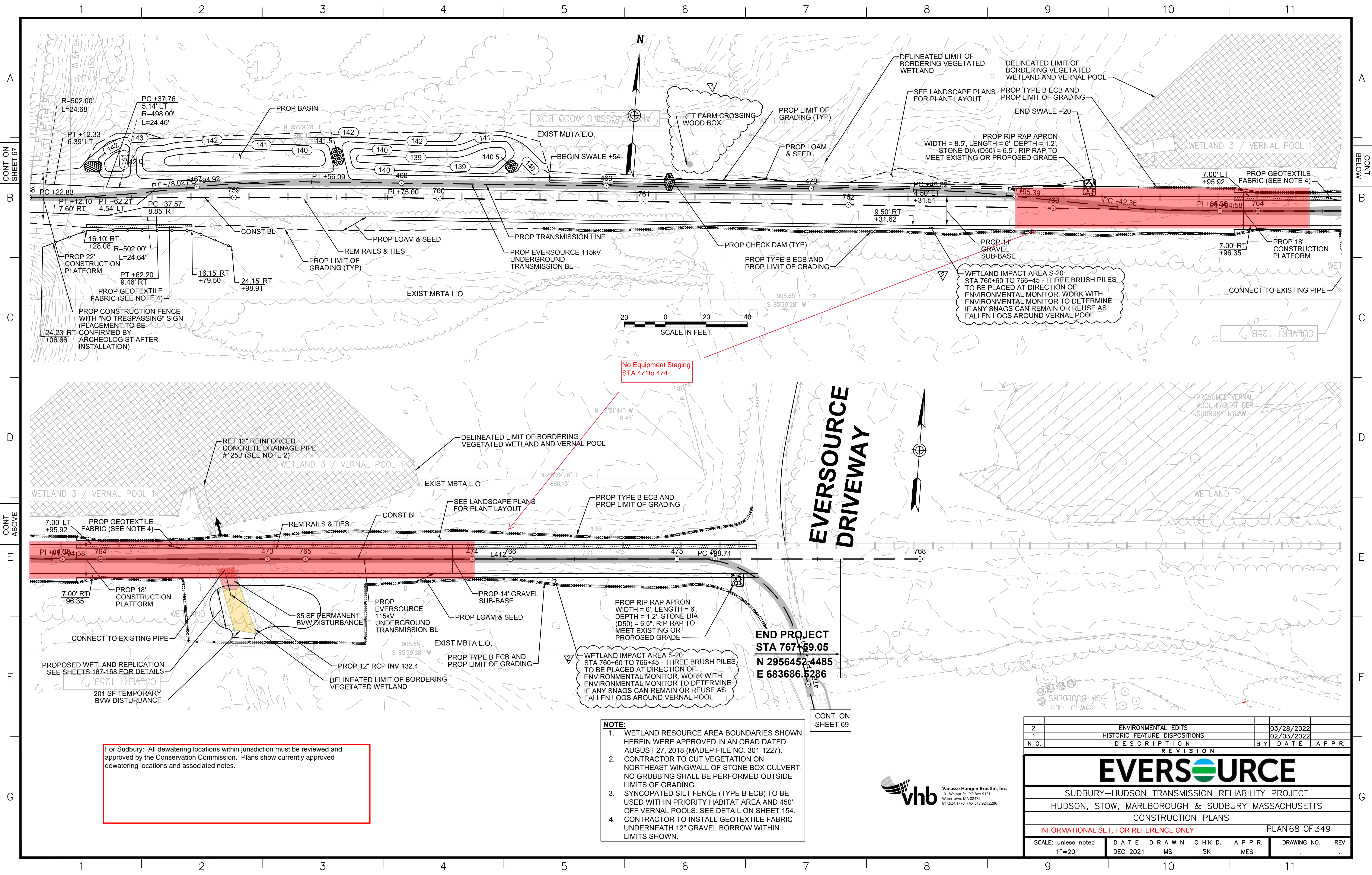
- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
  2. CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
  3. CONTRACTOR TO CLEAR SEDIMENT IN DRAINAGE PIPE BY HAND.
  4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OF VERNAL POOLS. SEE DETAIL ON SHEET 154.

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY DATE	APPR.
REVISION			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 67 OF 349
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D. APPR.
	DEC 2021	MS	SK MES
DRAWING NO.	REV.		







20 0 20 40  
SCALE IN FEET

No Equipment Staging  
STA 471 to 474

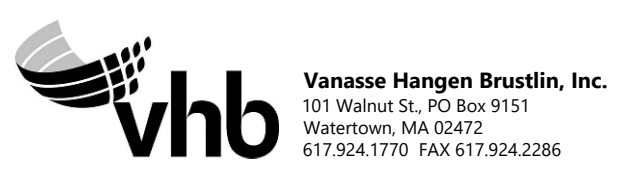
**EVERSOURCE  
DRIVEWAY**

**END PROJECT  
STA 767+59.05  
N 2956452-4485  
E 683686-5286**

For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

- NOTE:**
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. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 450' OFF VERNAL POOLS. SEE DETAIL ON SHEET 154.
  4. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

2	ENVIRONMENTAL EDITS	03/28/2022	
1	HISTORIC FEATURE DISPOSITIONS	02/03/2022	
N.O.	DESCRIPTION	BY	DATE APPR.
<b>REVISION</b>			
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
CONSTRUCTION PLANS			
INFORMATIONAL SET, FOR REFERENCE ONLY			PLAN 68 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK
	A.P.P.R. MES	DRAWING NO.	REV.

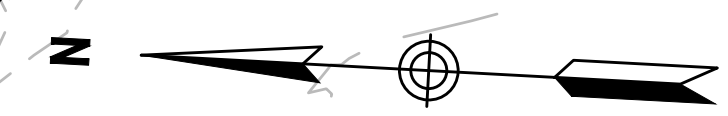




For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

# EVERSOURCE DRIVEWAY

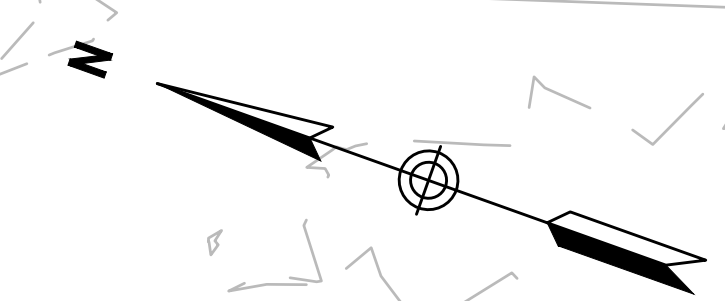
END PROJECT  
STA 767+59.05  
N 2956452.4485  
E 683686.5286



- PROP GRAVEL
- PROP GEOTEXTILE FABRIC (SEE NOTE 2)
- PROP TYPE B ECB AND PROP LIMIT OF GRADING
- REM RAILS & TIES
- PROP LOAM & SEED
- PROP TYPE B ECB AND PROP LIMIT OF GRADING
- PROP 14' GRAVEL SUB-BASE
- PROP 18' CONSTRUCTION PLATFORM
- PROP RIP RAP APRON WIDTH = 6' LENGTH = 6'. DEPTH = 12". STONE DIA (D50) = 6.5". RIP RAP TO MEET EXISTING OR PROPOSED GRADE

# EVERSOURCE DRIVEWAY

CONT. ON SHEET 70



- 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 450' OF VERNAL POOL. SEE DETAIL ON SHEET 154.



NO.	DESCRIPTION	BY	DATE	APPR.	REVISION	
<b>EVERSOURCE</b>						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CONSTRUCTION PLANS						
INFORMATIONAL SET, FOR REFERENCE ONLY						PLAN 69 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.

CONT. ON SHEET 68

CONT. BELOW

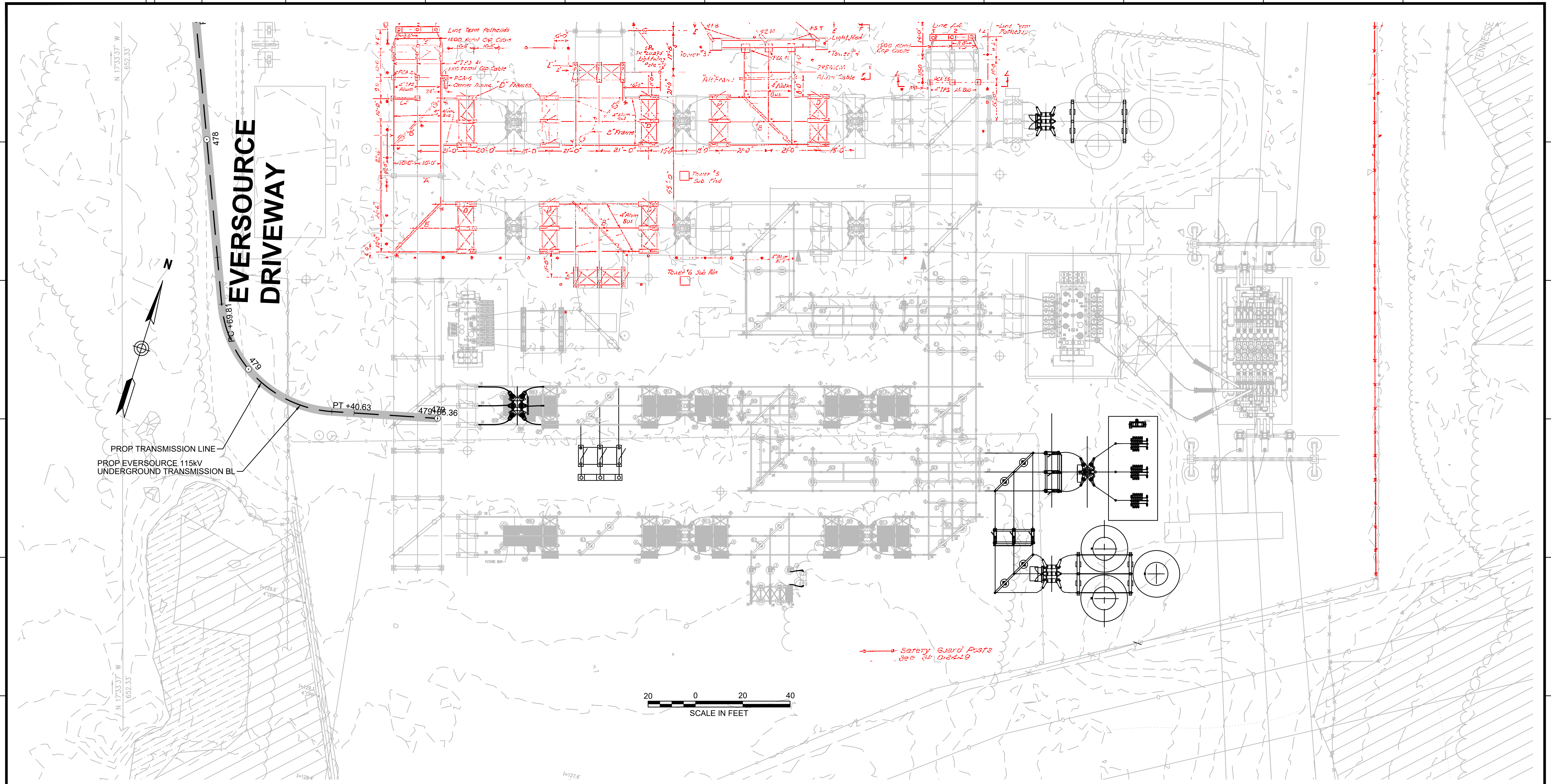
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PROP TRANSMISSION LINE  
PROP EVERSOURCE 115KV UNDERGROUND TRANSMISSION BL

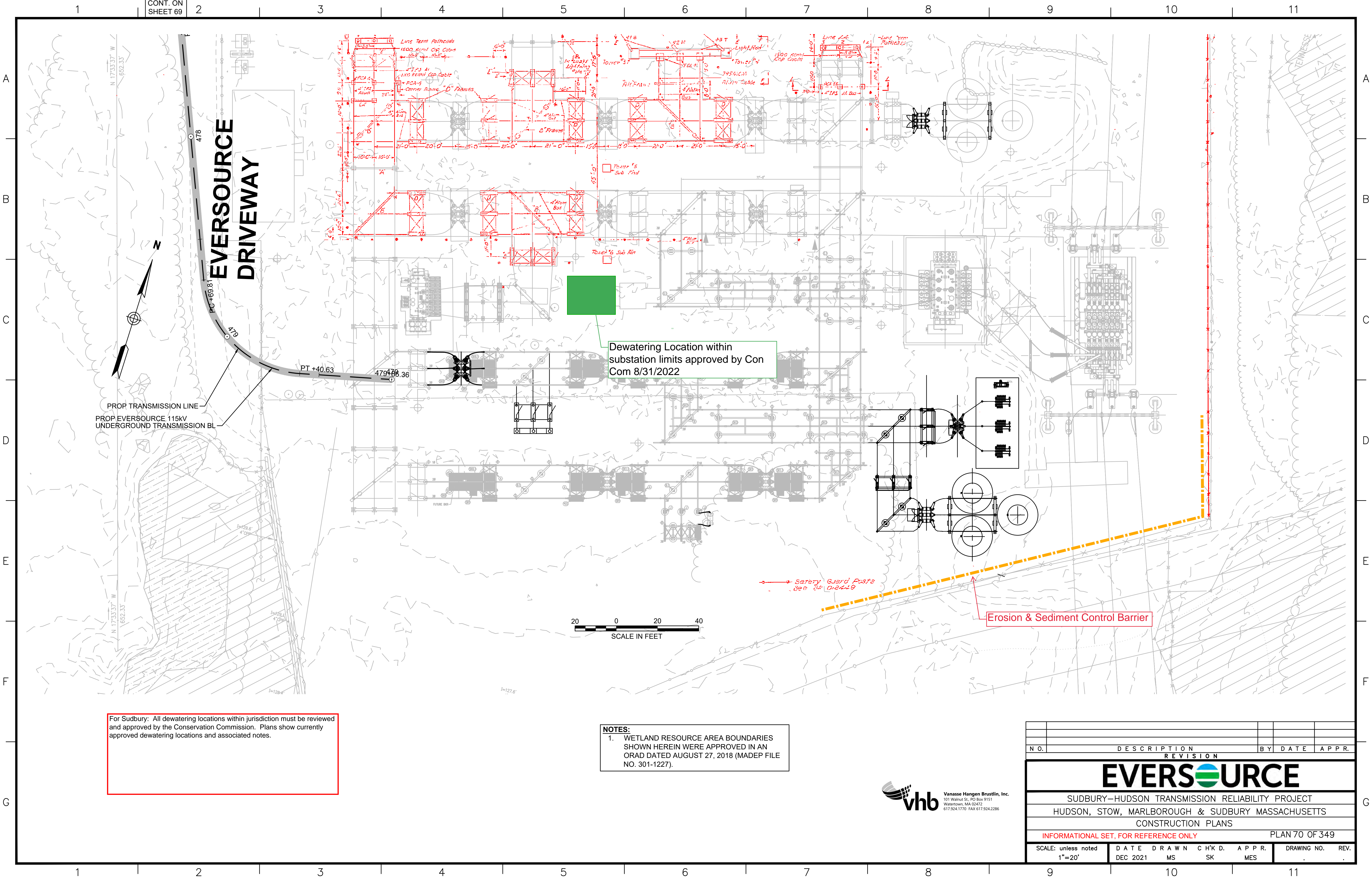


**NOTES:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



NO.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
INFORMATIONAL SET, FOR REFERENCE ONLY				PLAN 70 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.		REV.		





For Sudbury: All dewatering locations within jurisdiction must be reviewed and approved by the Conservation Commission. Plans show currently approved dewatering locations and associated notes.

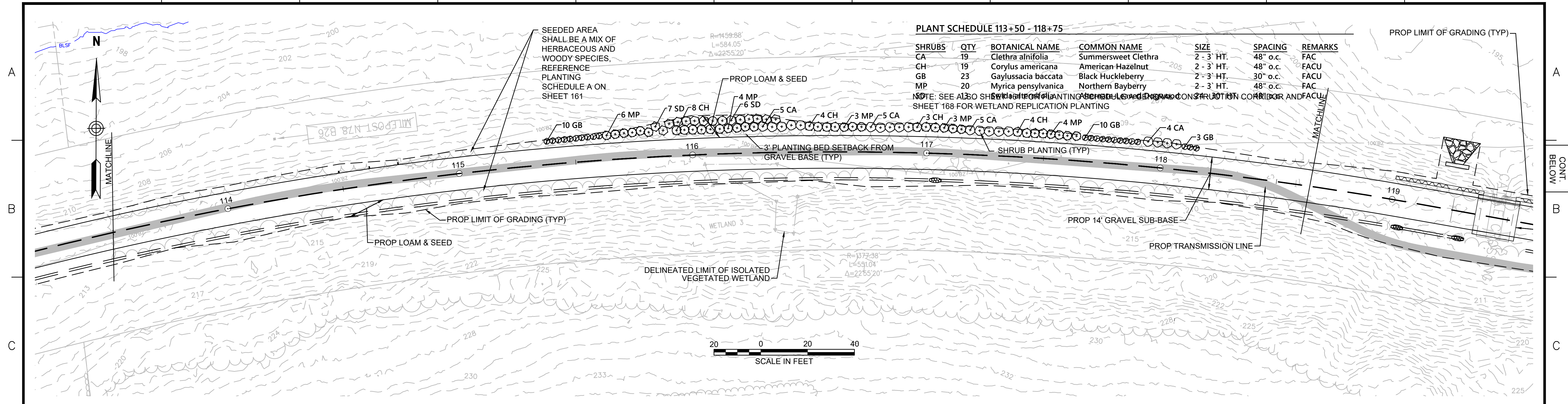
**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).



NO.		DESCRIPTION	BY	DATE	APPR.
		REVISION			
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
INFORMATIONAL SET, FOR REFERENCE ONLY					PLAN 70 OF 349
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.



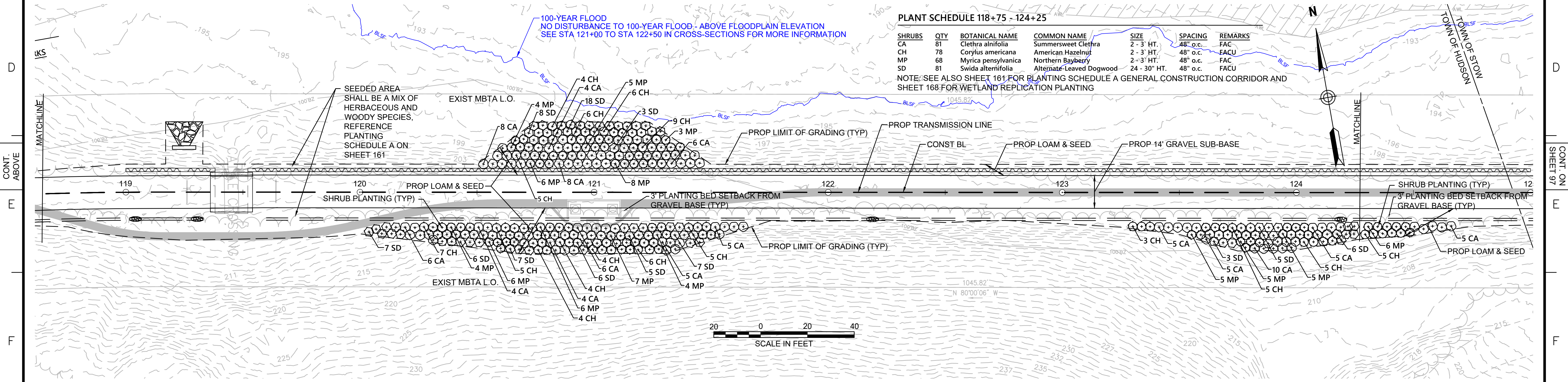
1 2 3 4 5 6 7 8 9 10 11



**PLANT SCHEDULE 113+50 - 118+75**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	19	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	19	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	23	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	20	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

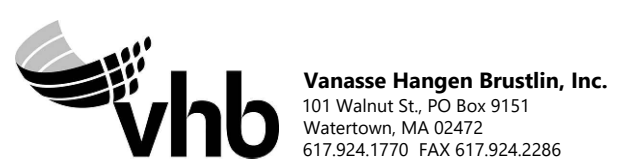


**PLANT SCHEDULE 118+75 - 124+25**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	81	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	78	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	68	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FACU
SD	81	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 96 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

1 2 3 4 5 6 7 8 9 10 11



1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 96

CONT. ON SHEET 98

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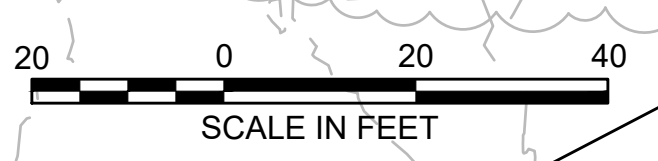
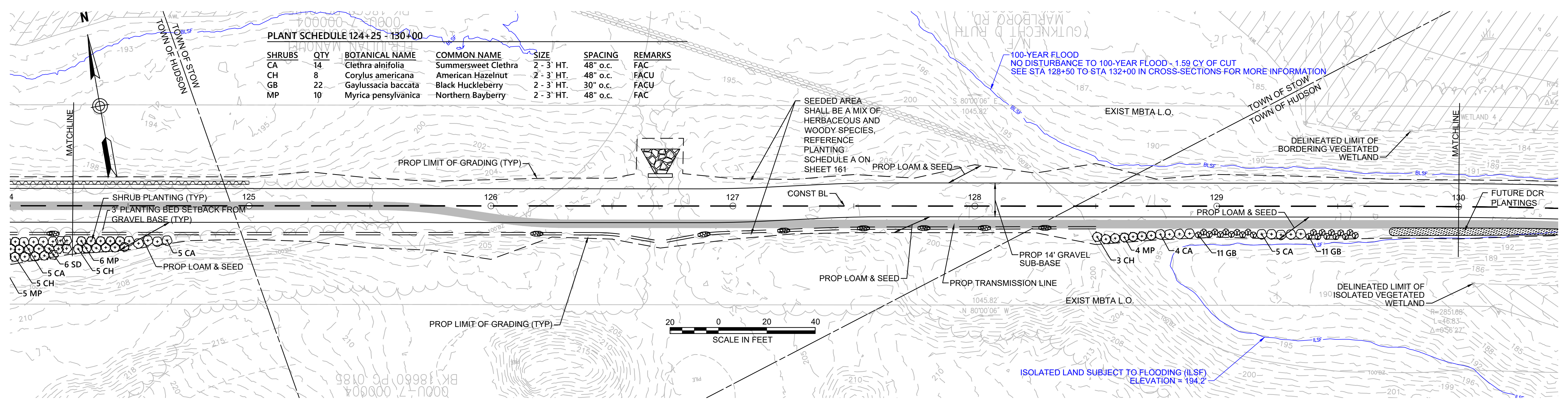
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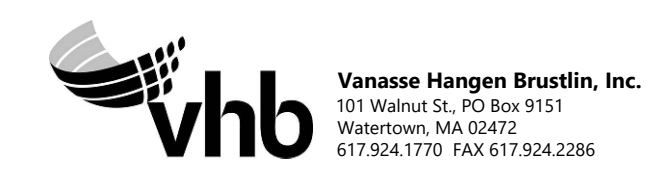
1 2 3 4 5 6 7 8 9 10 11

**PLANT SCHEDULE 124+25 - 130+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	14	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	8	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	22	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	10	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC

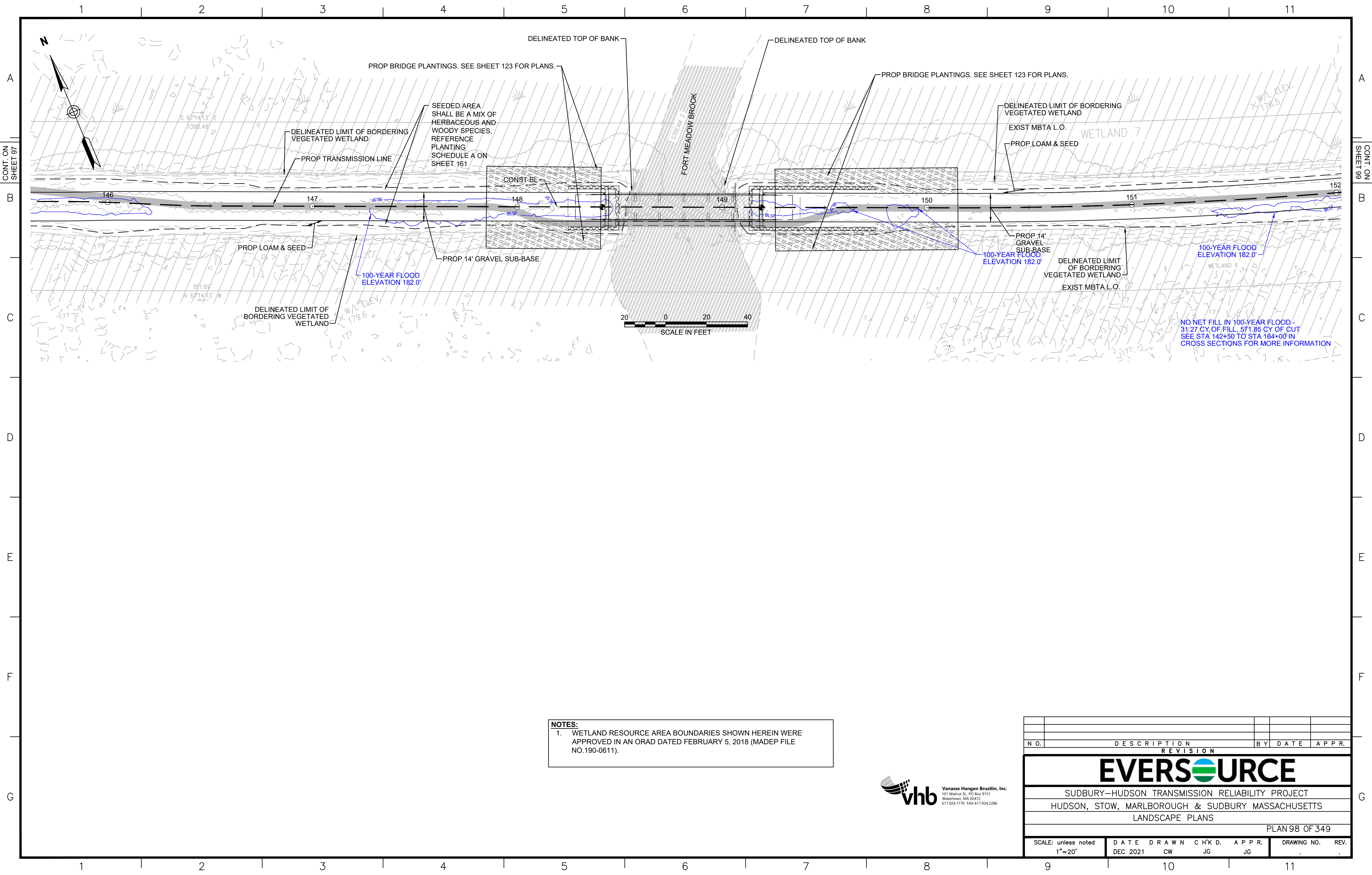


**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 97 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			





CONT. ON SHEET 97

CONT. ON SHEET 99

**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 98 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CH'K D. JG	APPR. JG
DRAWING NO.	REV.			



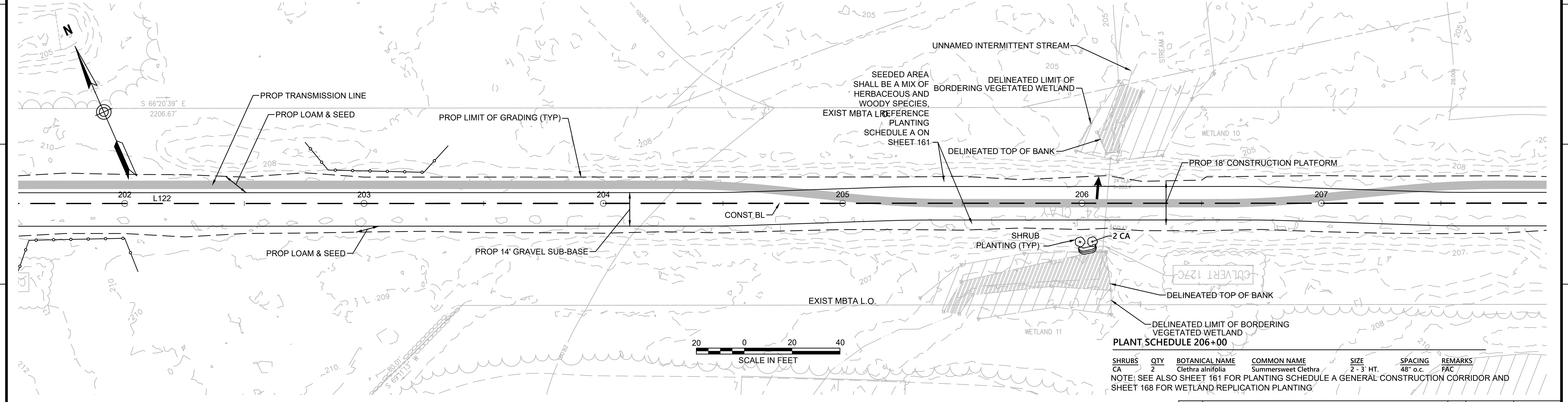
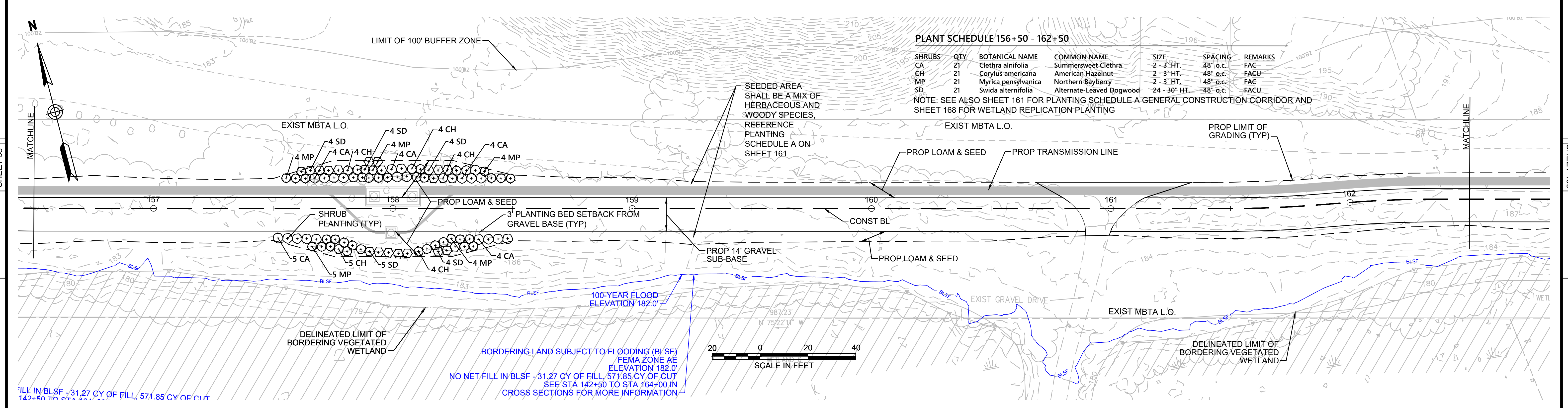
CONT. ON SHEET 98

CONT. ON SHEET 100

**PLANT SCHEDULE 156+50 - 162+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	21	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	21	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	21	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	21	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FAC

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**PLANT SCHEDULE 206+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	2	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC

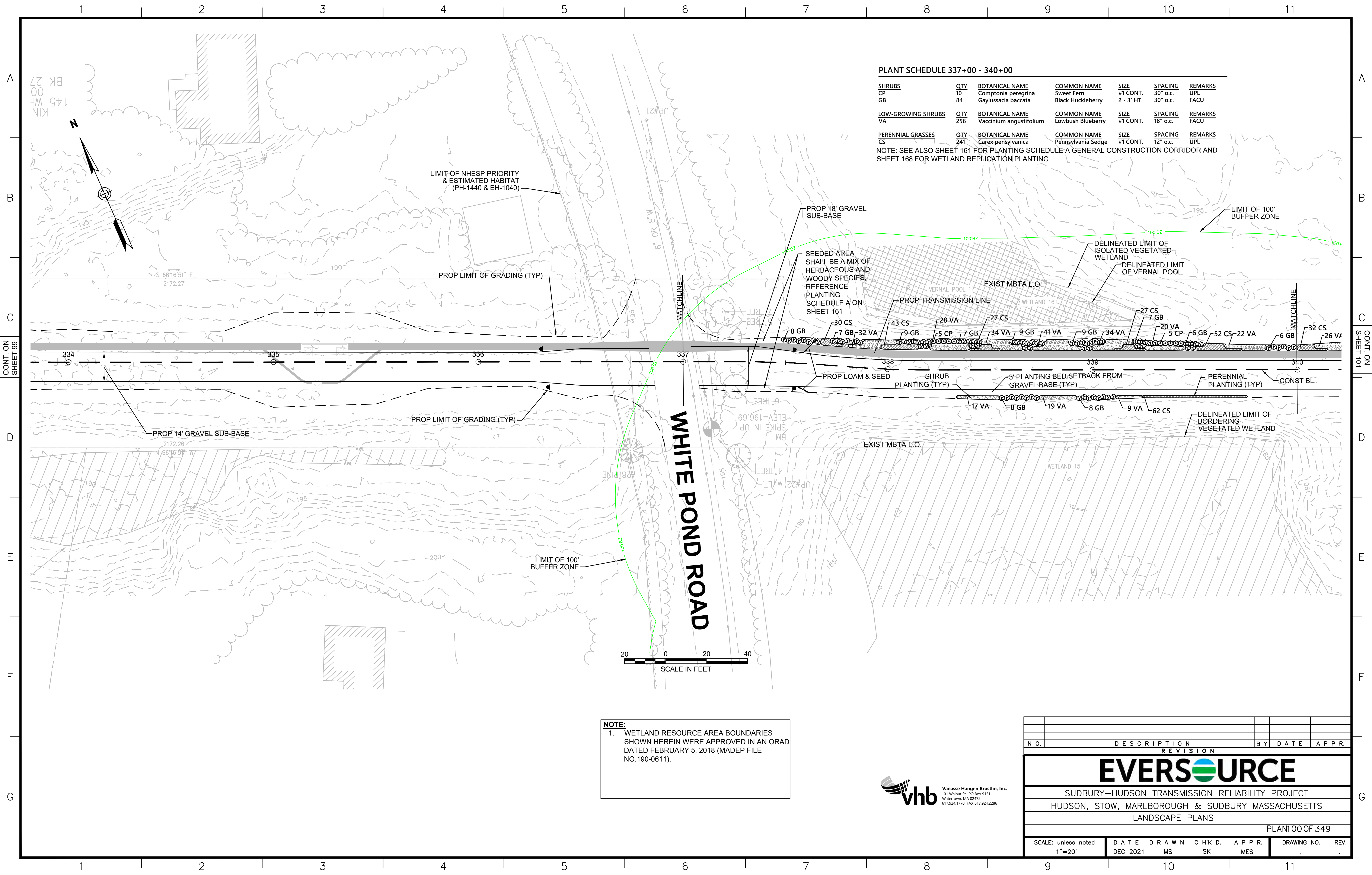
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 99 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.





**PLANT SCHEDULE 337+00 - 340+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	10	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	84	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	256	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	241	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**NOTE:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



REVISION			
N.O.	DESCRIPTION	BY	DATE

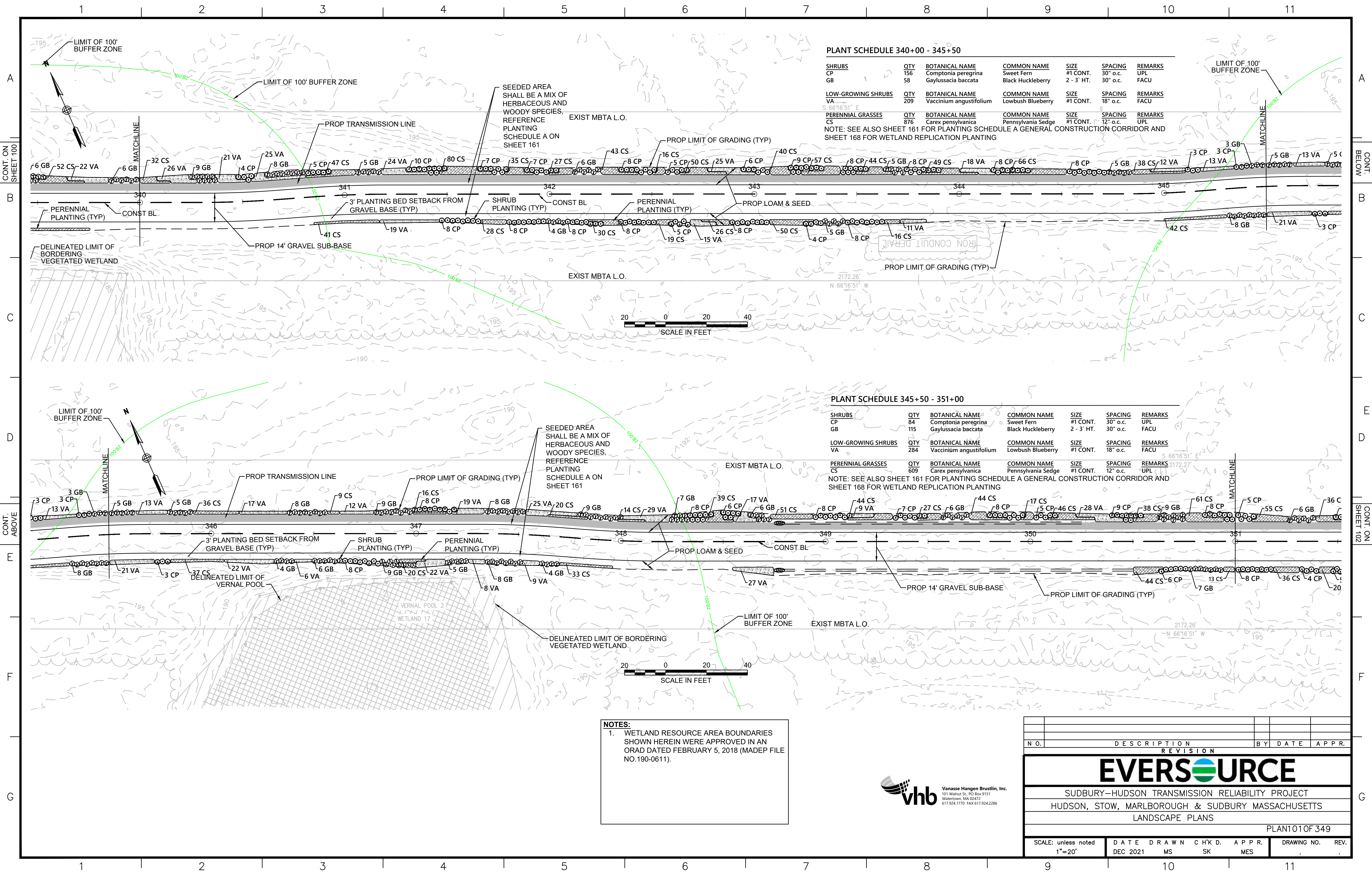
**EVERSOURCE**

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

PLAN 100 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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**PLANT SCHEDULE 340+00 - 345+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	156	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	58	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	209	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	876	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

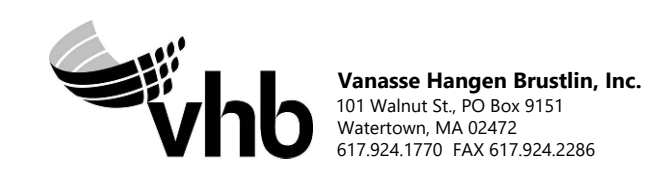
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**PLANT SCHEDULE 345+50 - 351+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	84	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	115	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	284	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	609	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**NOTES:**  
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN101 OF 349				
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	DEC 2021	MS	SK	MES
DRAWING NO.	REV.			



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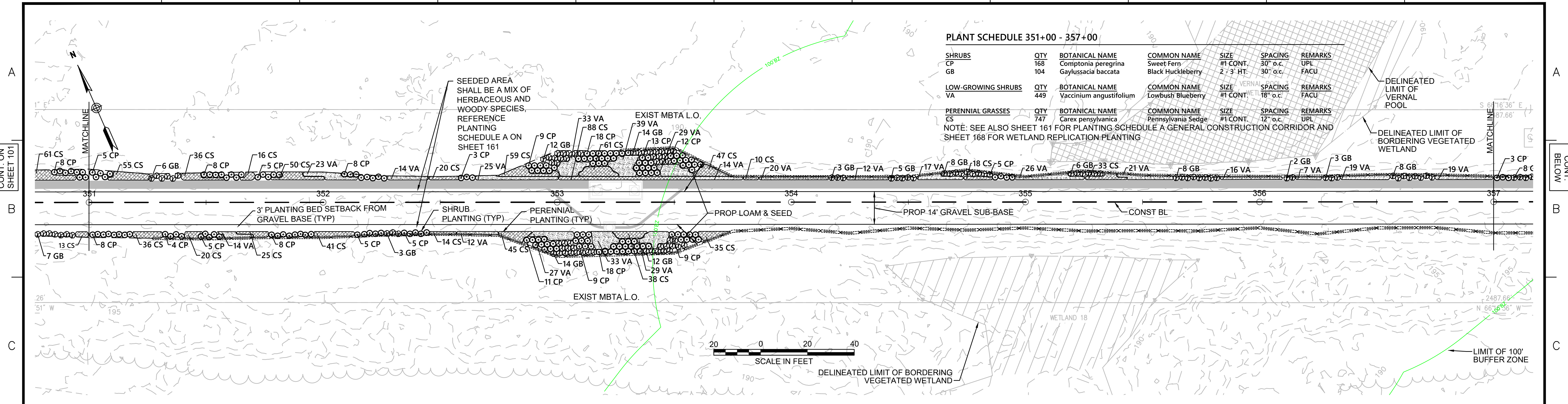
CONT. ON SHEET 101

CONT. BELOW

**PLANT SCHEDULE 351+00 - 357+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	168	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	104	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	449	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	747	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**PLANT SCHEDULE 357+00 - 361+60: HUDSON AND MARLBOROUGH**

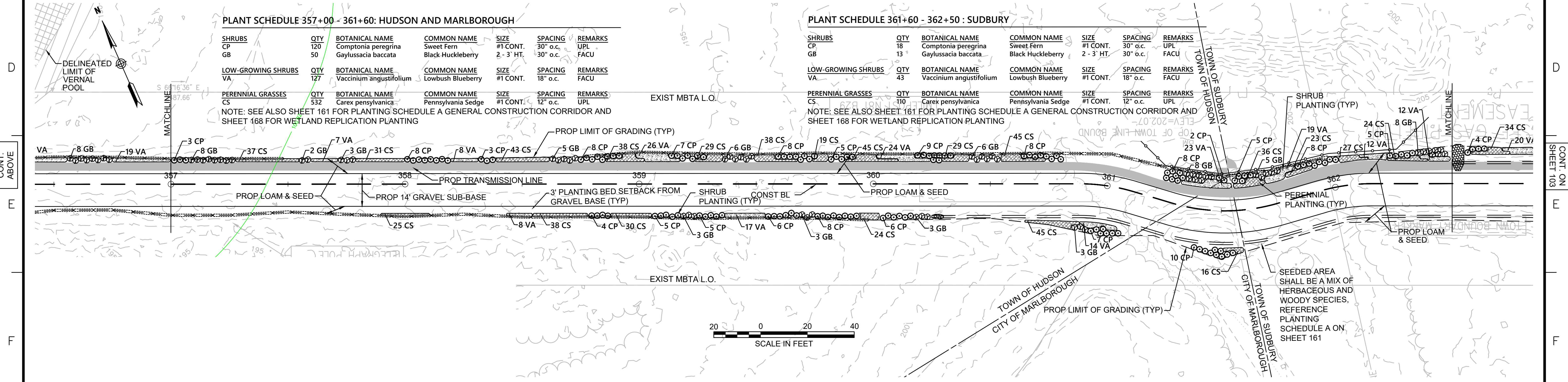
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	120	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	50	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	127	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	532	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

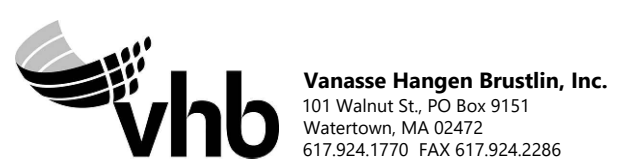
**PLANT SCHEDULE 361+60 - 362+50 : SUDBURY**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	18	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	13	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	43	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	110	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORD DATED FEBRUARY 5, 2018 (MADEP FILE NO.190-0611).



REVISION			
N.O.	DESCRIPTION	BY	DATE

**EVERSOURCE**

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

PLANT 02 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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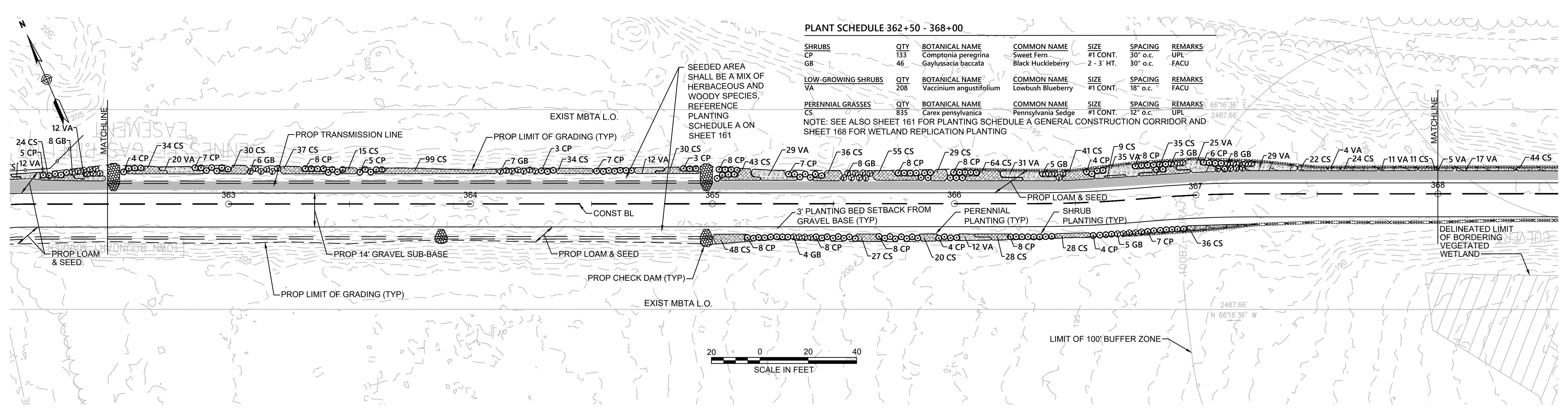
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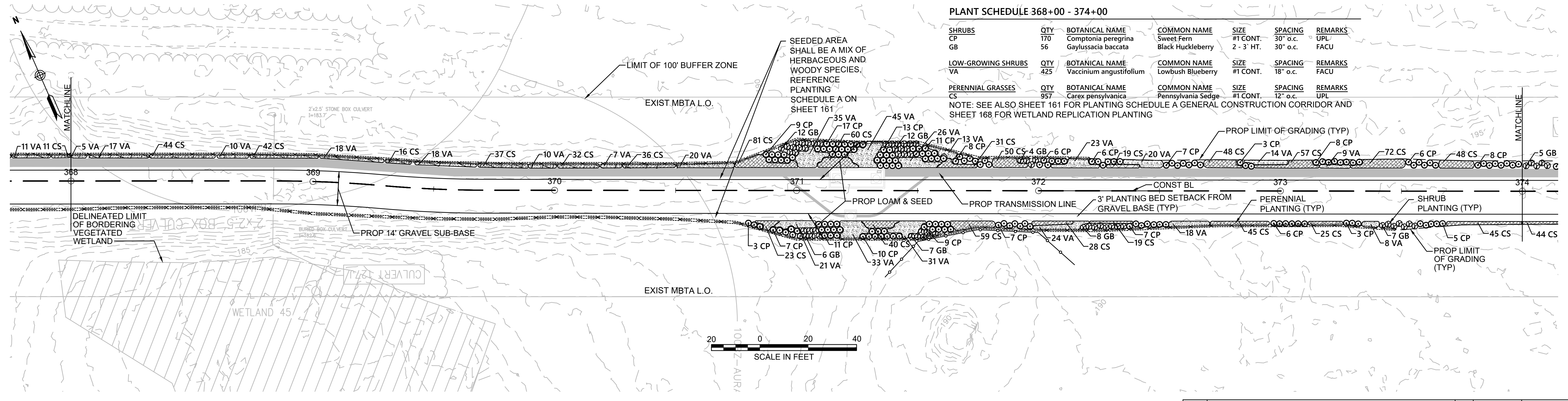
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**PLANT SCHEDULE 362+50 - 368+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	133	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	46	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	208	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	835	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

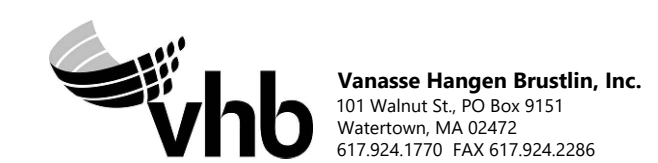


**PLANT SCHEDULE 368+00 - 374+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	170	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	56	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	425	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	957	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

**EVERSOURCE**

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

PLANT 03 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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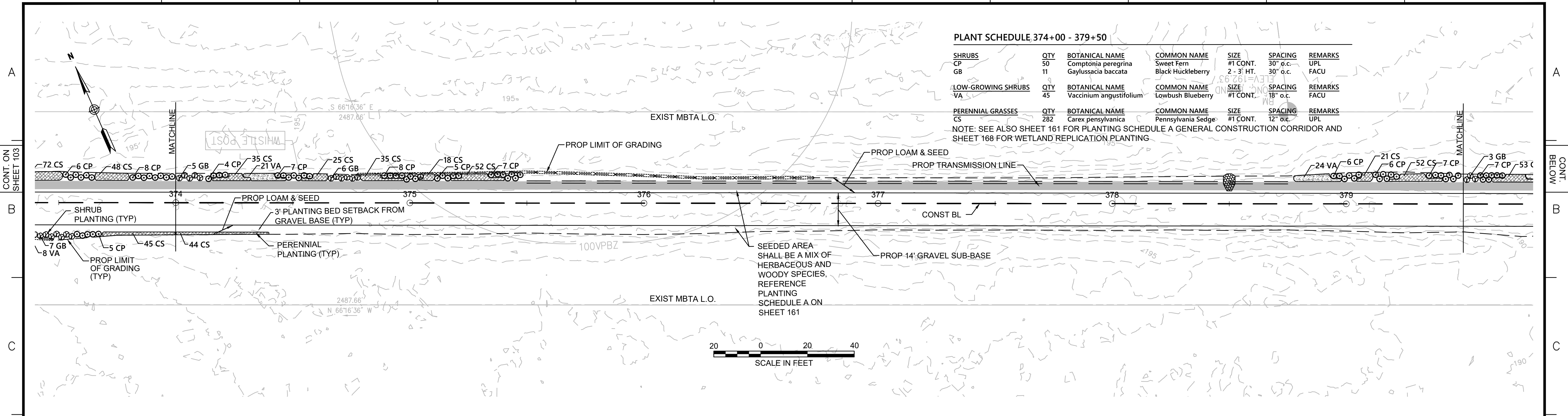
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**PLANT SCHEDULE 374+00 - 379+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	50	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	11	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	45	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	282	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING.



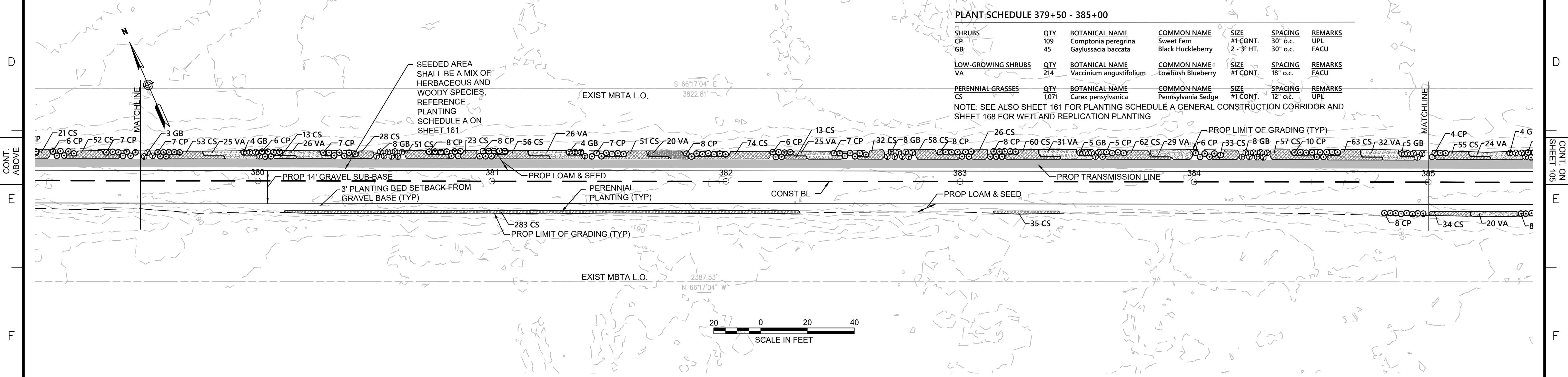
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**PLANT SCHEDULE 379+50 - 385+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	109	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	45	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	214	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	1,071	Carex pensylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING.



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



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLANT 04 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

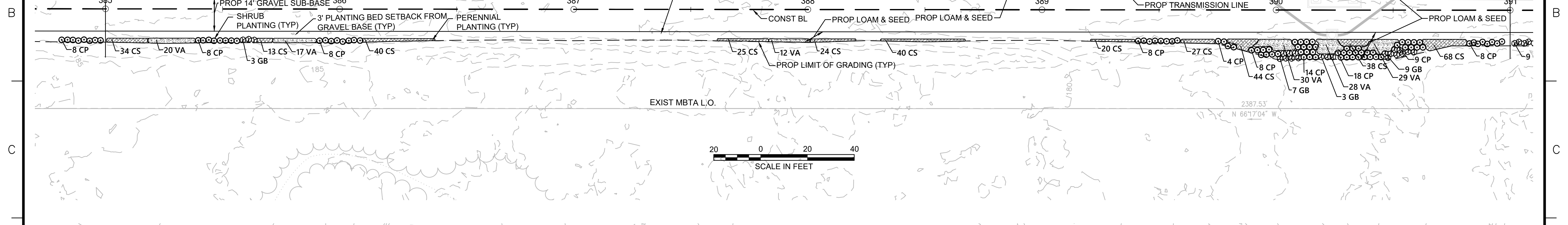
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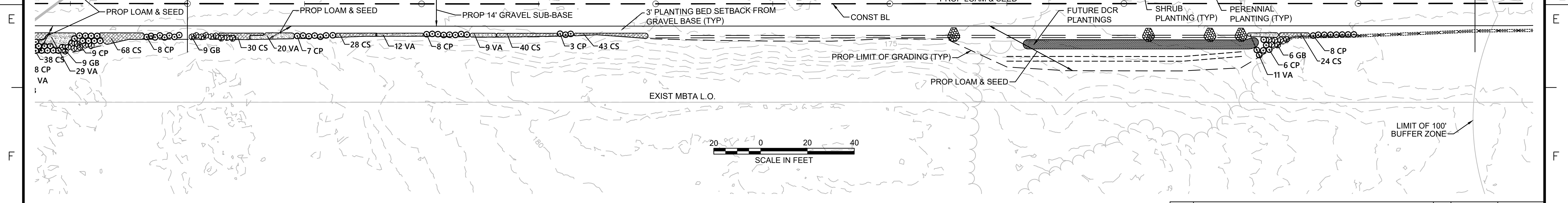
**PLANT SCHEDULE 385+00 - 391+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	230	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	88	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	421	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	1,280	Carex pennsylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

CONT. ABOVE

CONT. ON SHEET 106



**PLANT SCHEDULE 391+00 - 396+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	113	Comptonia peregrina	Sweet Fern	#1 CONT.	30" o.c.	UPL
GB	49	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	217	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18" o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	792	Carex pennsylvanica	Pennsylvania Sedge	#1 CONT.	12" o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLANT 05 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	A.P.P.R. JG	DRAWING NO. REV.

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CONT. ON SHEET 105

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**PLANT SCHEDULE 396+50 - 402+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CP	5	Comptonia peregrina	Sweet Fern	#1 CONT.	30' o.c.	FACU
GB	42	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30' o.c.	FACU
LOW-GROWING SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VA	84	Vaccinium angustifolium	Lowbush Blueberry	#1 CONT.	18' o.c.	FACU
PERENNIAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CS	135	Carex pennsylvanica	Pennsylvania Sedge	#1 CONT.	12' o.c.	UPL

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

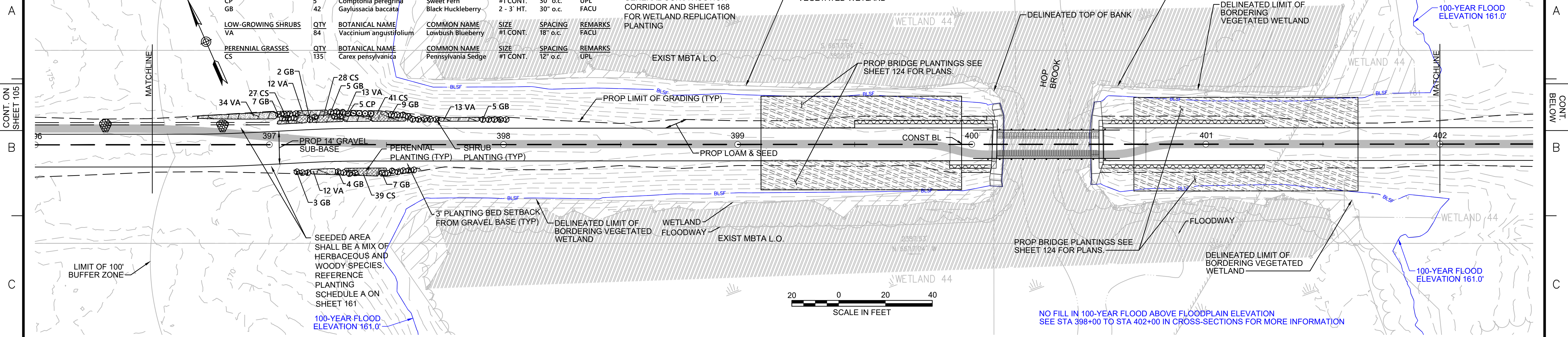
DELIMITED LIMIT OF BORDERING VEGETATED WETLAND

DELIMITED TOP OF BANK

DELIMITED LIMIT OF BORDERING VEGETATED WETLAND

LIMIT OF NHESP PRIORITY & ESTIMATED HABITAT (PH-1440 & EH-1040)

100-YEAR FLOOD ELEVATION 161.0'



**PLANT SCHEDULE 402+00 - 408+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CH	10	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	10	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FACU
SD	10	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU
VC	3	Vaccinium corymbosum	Highbush Blueberry	3 - 4' HT.	48" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

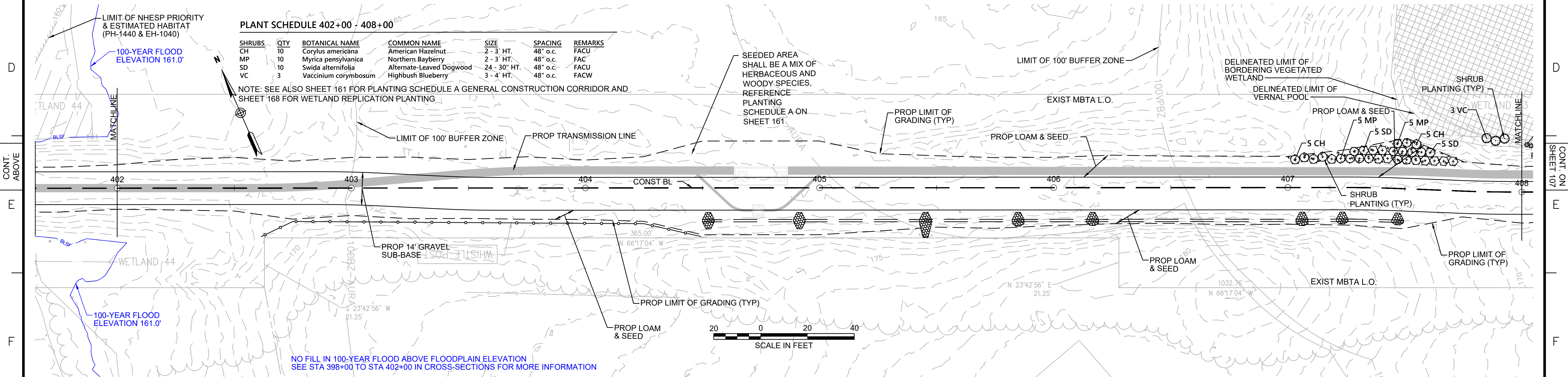
SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES, REFERENCE PLANTING SCHEDULE A ON SHEET 161

LIMIT OF 100' BUFFER ZONE

DELIMITED LIMIT OF BORDERING VEGETATED WETLAND

DELIMITED LIMIT OF VERNAL POOL

SHRUB PLANTING (TYP)



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



NO.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 106 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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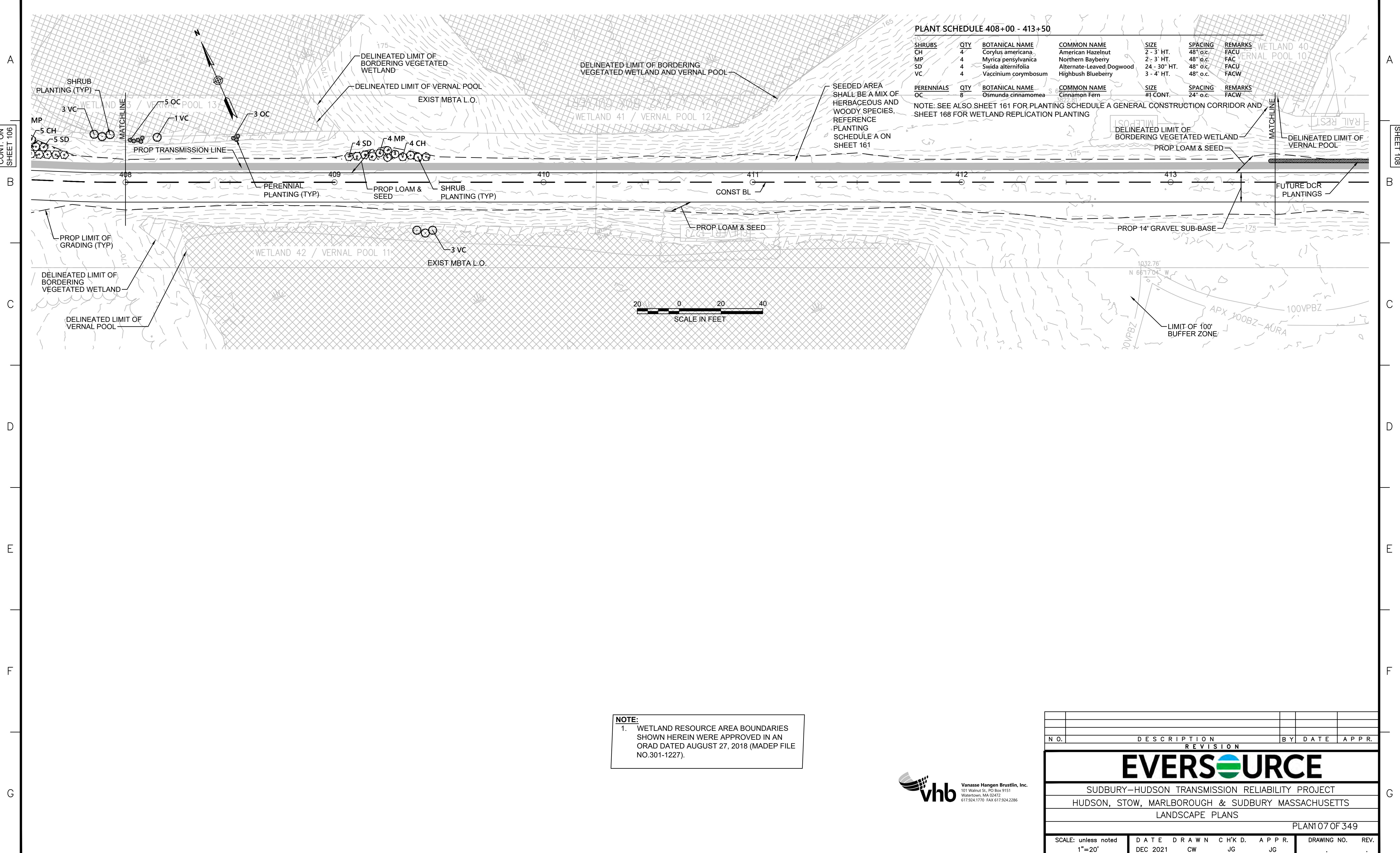
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CONT. ON SHEET 106

CONT. ON SHEET 108



**PLANT SCHEDULE 408+00 - 413+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CH	4	<i>Corylus americana</i>	American Hazelnut	2 - 3 HT.	48" o.c.	FACU
MP	4	<i>Myrica pensylvanica</i>	Northern Bayberry	2 - 3 HT.	48" o.c.	FACU
SD	4	<i>Swida alternifolia</i>	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU
VC	4	<i>Vaccinium corymbosum</i>	Highbush Blueberry	3 - 4 HT.	48" o.c.	FACW

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
OC	8	<i>Osmunda cinnamomea</i>	Cinnamon Fern	#1 CONT.	24" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161

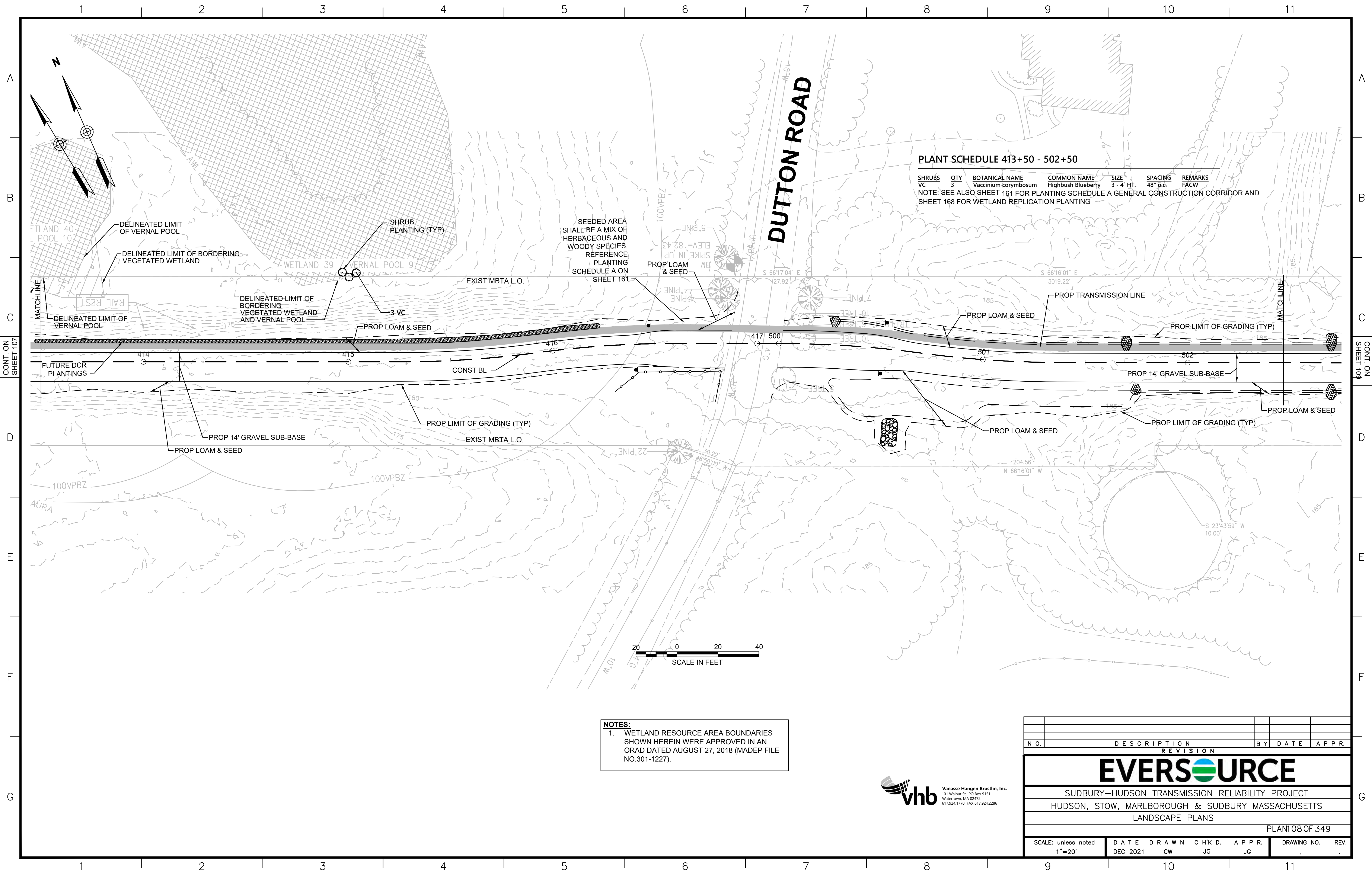
**NOTE:**  
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO.301-1227).



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 107 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.				REV.

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**PLANT SCHEDULE 413+50 - 502+50**

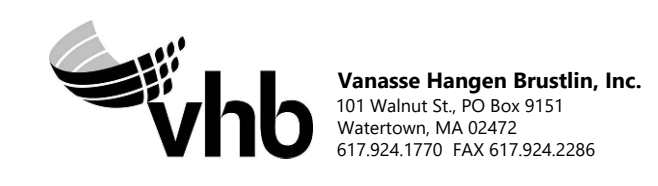
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VC	3	Vaccinium corymbosum	Highbush Blueberry	3-4 HT.	48" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



NO.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 108 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.				REV.

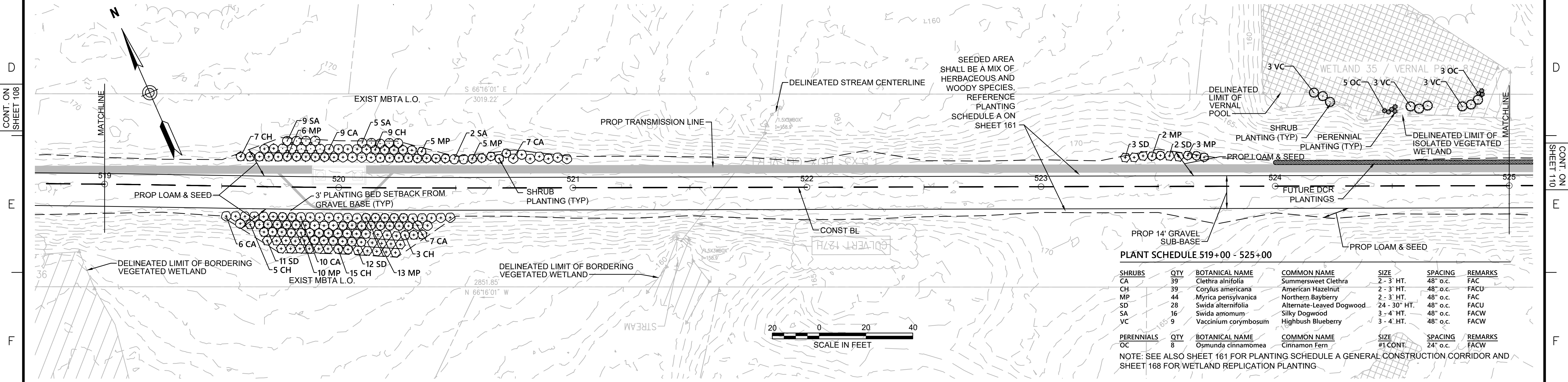




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**PLANT SCHEDULE 519+00 - 525+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	39	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	39	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	44	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	28	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU
SA	16	Swida anomum	Silky Dogwood	3 - 4' HT.	48" o.c.	FACU
VC	9	Vaccinium corymbosum	Highbush Blueberry	3 - 4' HT.	48" o.c.	FACW

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
OC	8	Osmunda cinnamomea	Cinnamon Fern	#1 CONT.	24" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 109 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

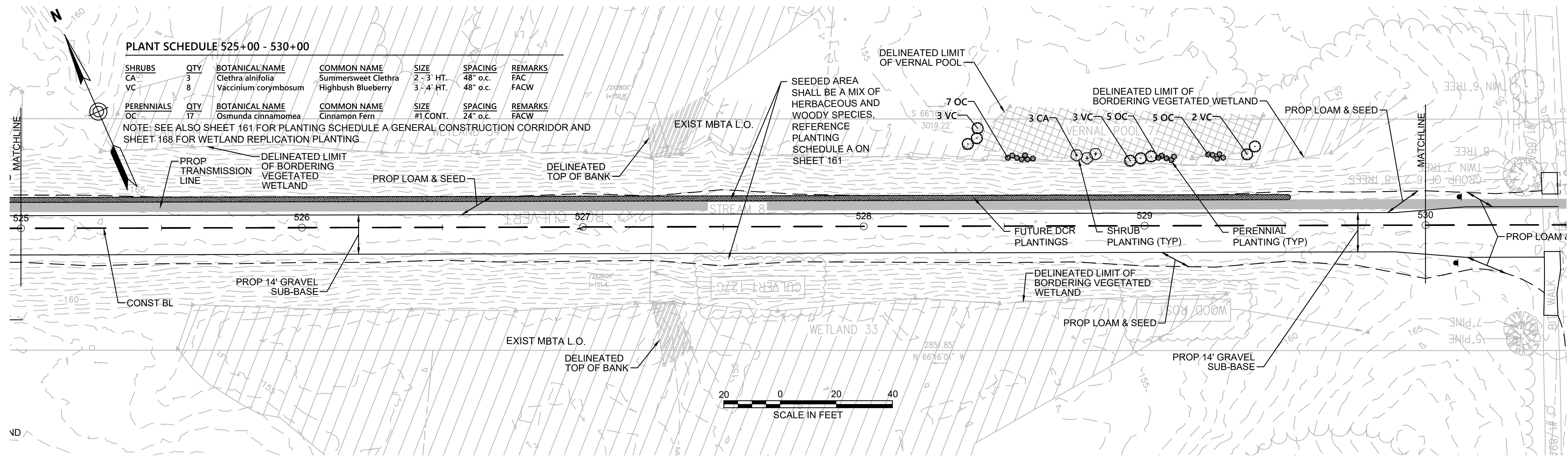
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**PLANT SCHEDULE 525+00 - 530+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	3	Clethra alnifolia	Summersweet Clethra	2 - 3 HT.	48" o.c.	FAC
VC	8	Vaccinium corymbosum	Highbush Blueberry	3 - 4 HT.	48" o.c.	FACW

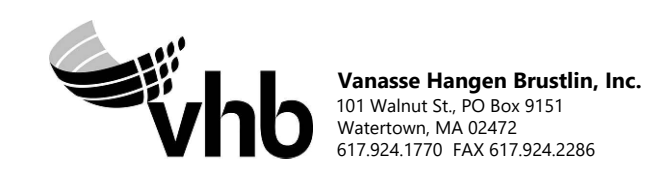
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
OC	17	Osmunda cinnamomea	Cinnamon Fern	#1 CONT.	24" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161



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



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 10 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CH'K D. JG	APPR. JG
DRAWING NO.	REV.			

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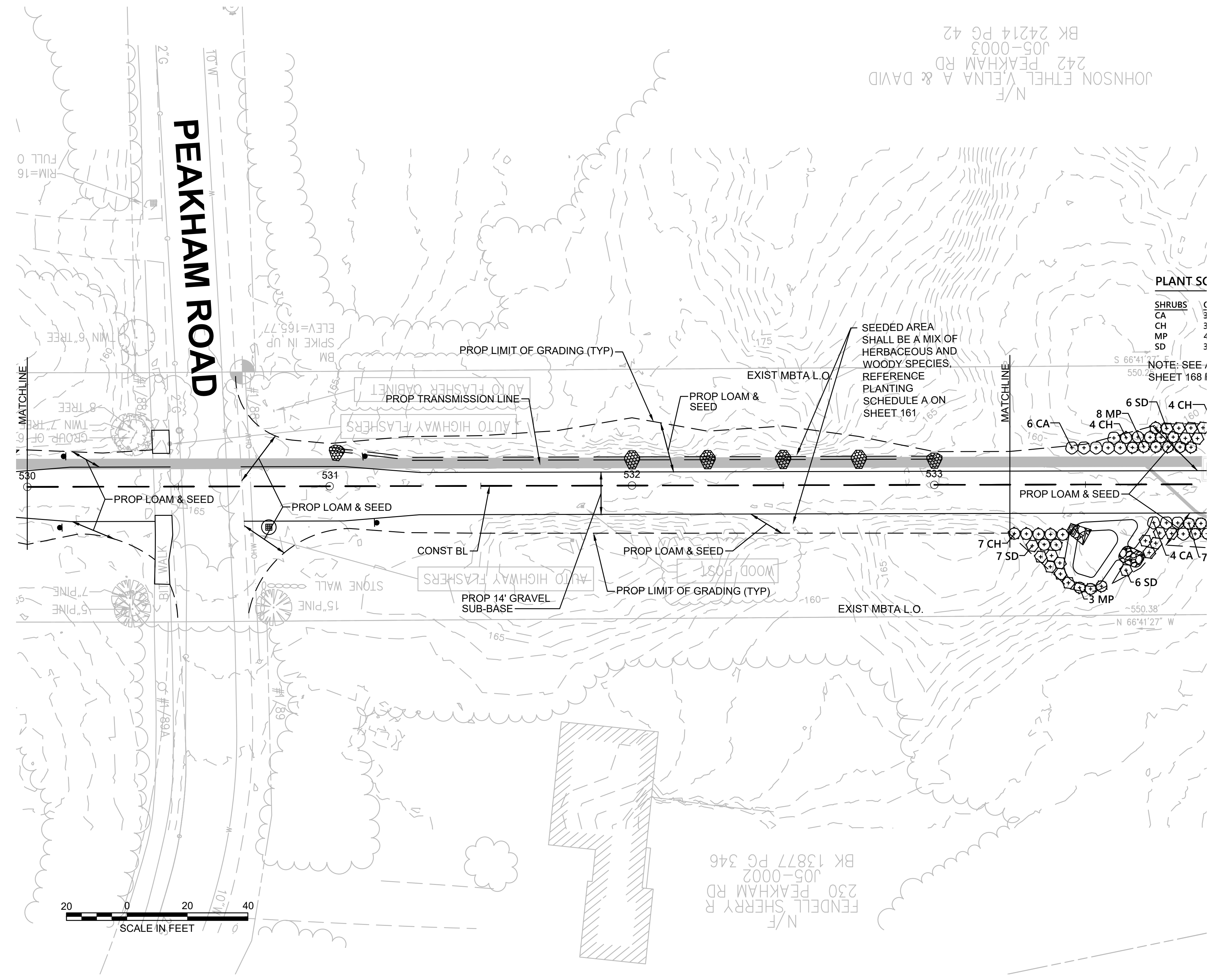


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FENDELL SHERRY R  
230 PEAKHAM RD  
J05-0002  
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CONT. ON SHEET 110

CONT. ON SHEET 112

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 111 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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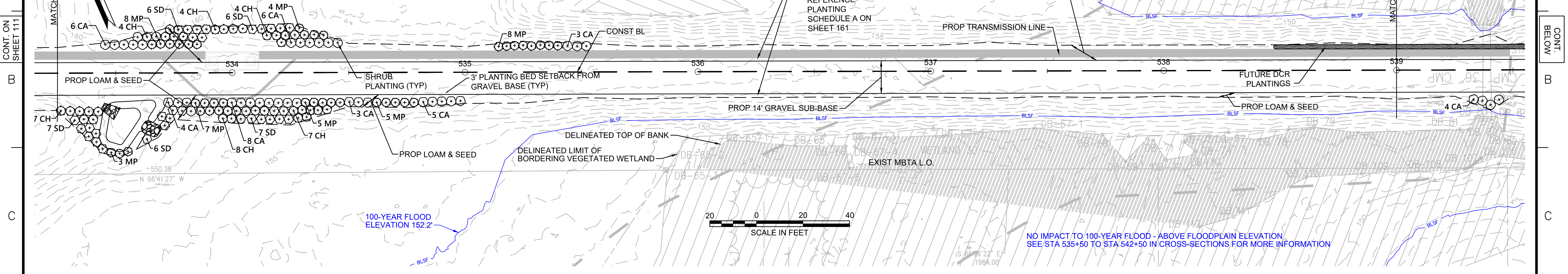
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**PLANT SCHEDULE 533+25 - 539+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	35	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	34	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	40	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	32	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



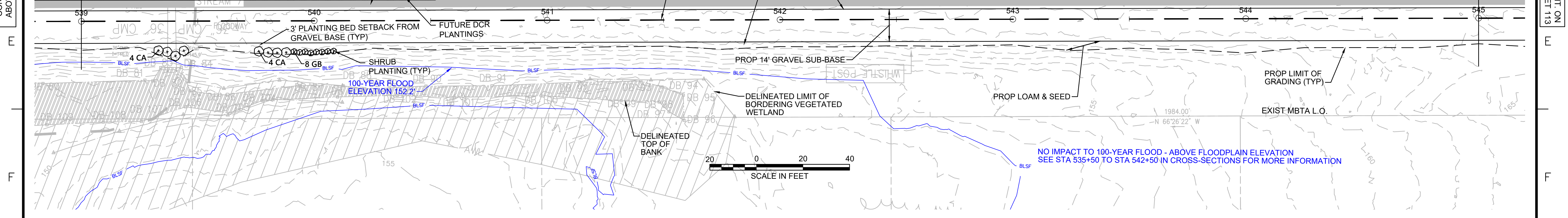
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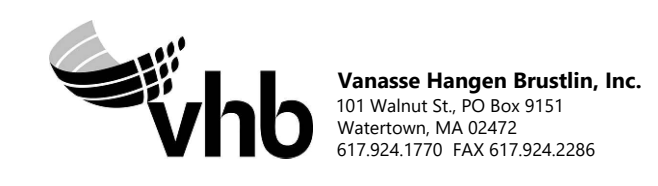
**PLANT SCHEDULE 539+00 - 545+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	8	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
GB	8	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 112 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

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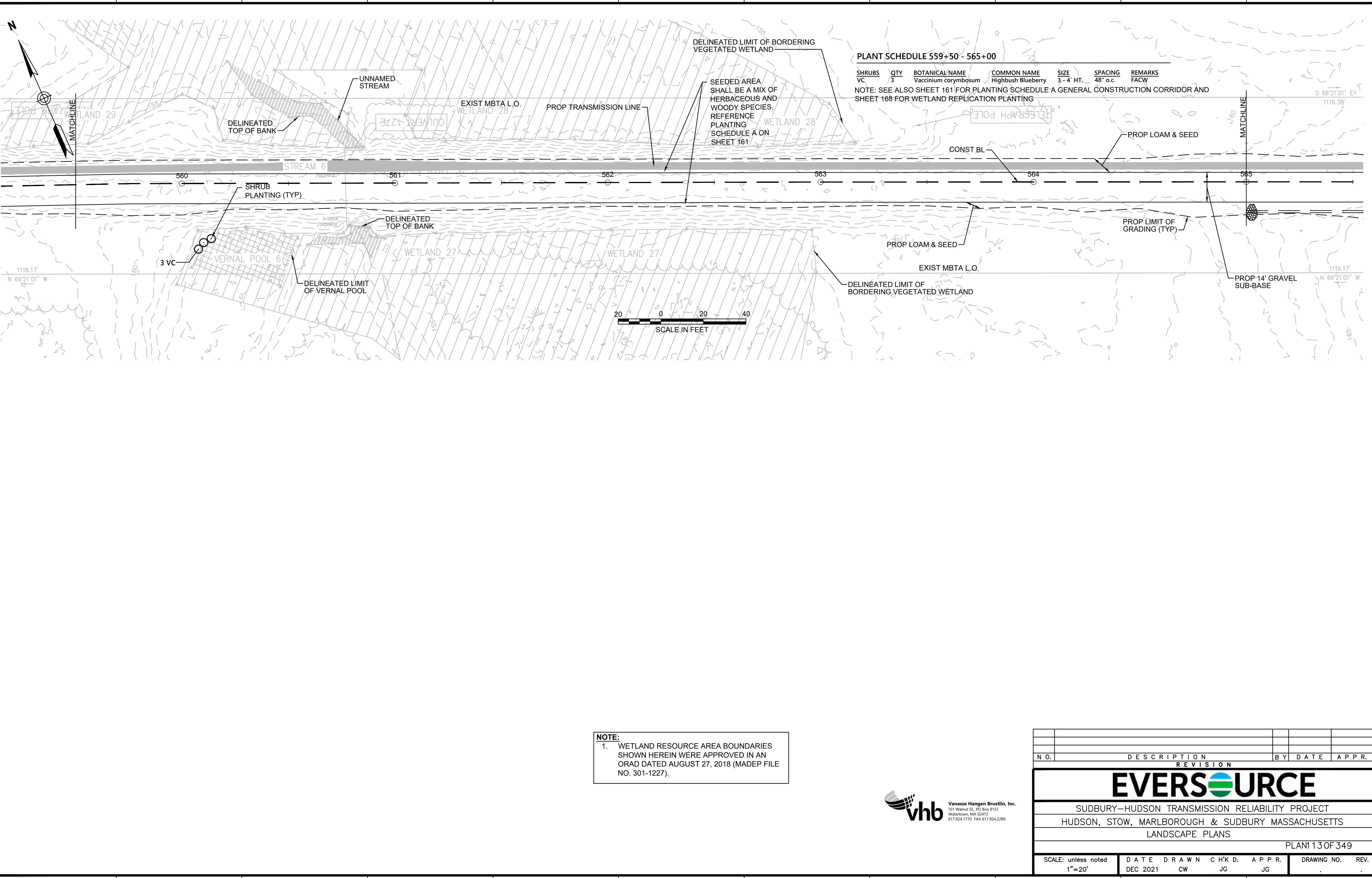
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**PLANT SCHEDULE 559+50 - 565+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
VC	3	Vaccinium corymbosum	Highbush Blueberry	3'-4' HT.	48" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 113 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.				REV.

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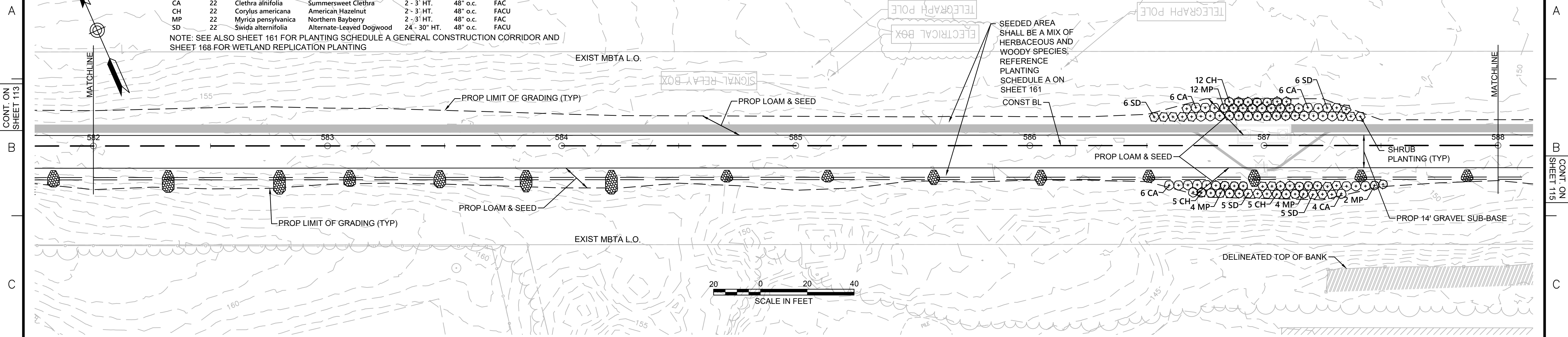


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**PLANT SCHEDULE 582+00 - 588+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	22	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	22	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	22	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	22	Swida alternifolia	Alternate-Leaved Dogwood	24' - 30' HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 14 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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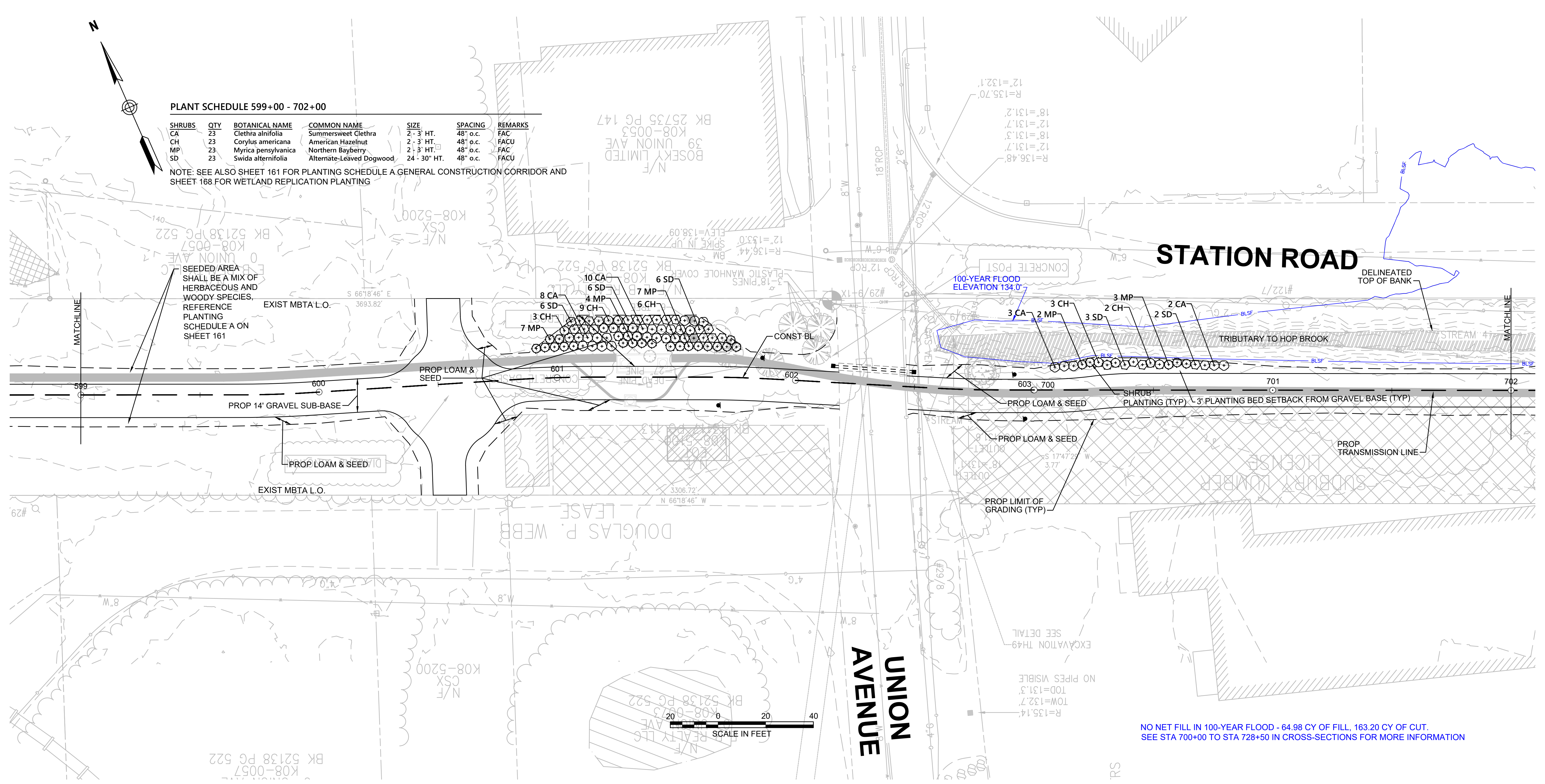
**PLANT SCHEDULE 599+00 - 702+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	23	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	23	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	23	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	23	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

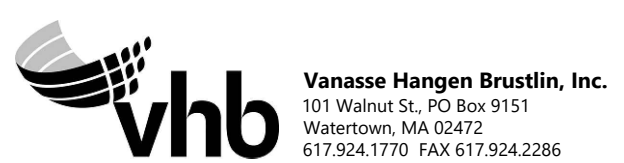
SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161

**STATION ROAD**



NO NET FILL IN 100-YEAR FLOOD - 64.98 CY OF FILL, 163.20 CY OF CUT. SEE STA 700+00 TO STA 728+50 IN CROSS-SECTIONS FOR MORE INFORMATION

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



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 115 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

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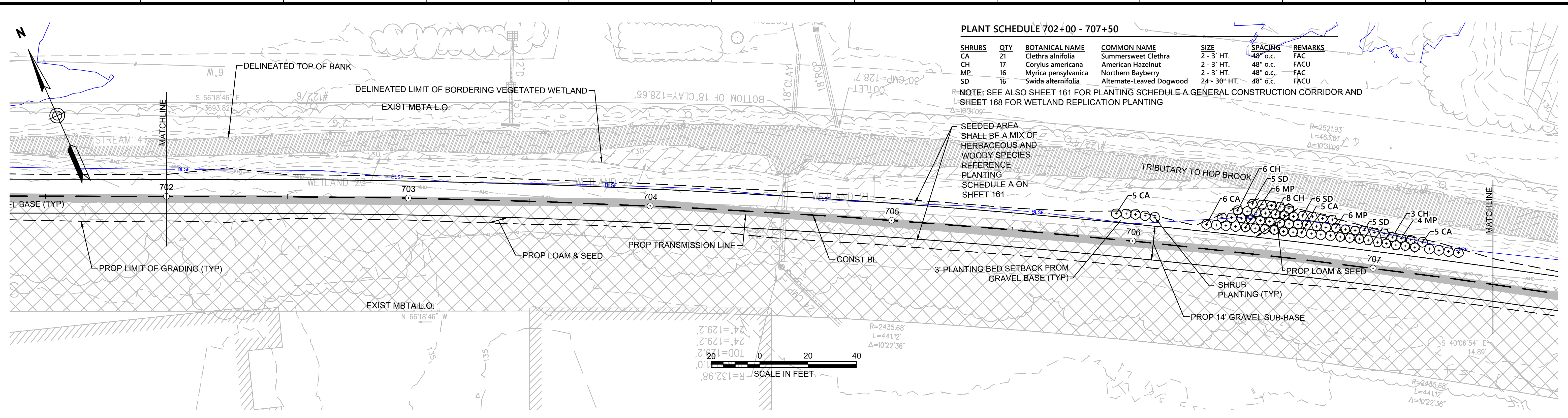
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**PLANT SCHEDULE 702+00 - 707+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	21	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	17	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	16	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	16	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 116 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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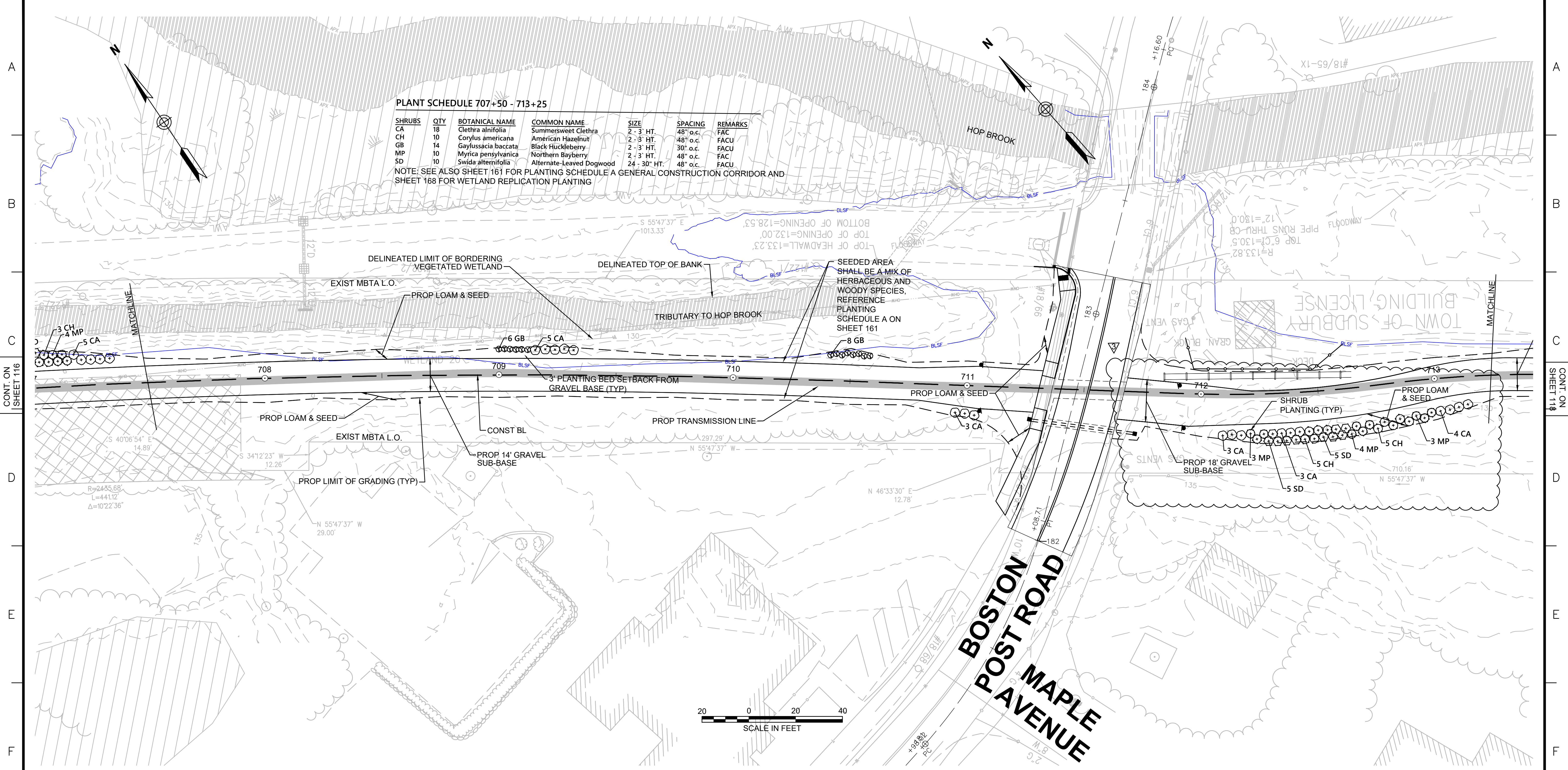
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**PLANT SCHEDULE 707+50 - 713+25**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	18	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	10	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	14	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	10	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	10	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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

N.O.	DESCRIPTION	BY	DATE	APPR.
3	PATH REALIGNMENT 710+50 TO 713+50		08/19/2022	

**EVERSOURCE**

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

PLAN 117 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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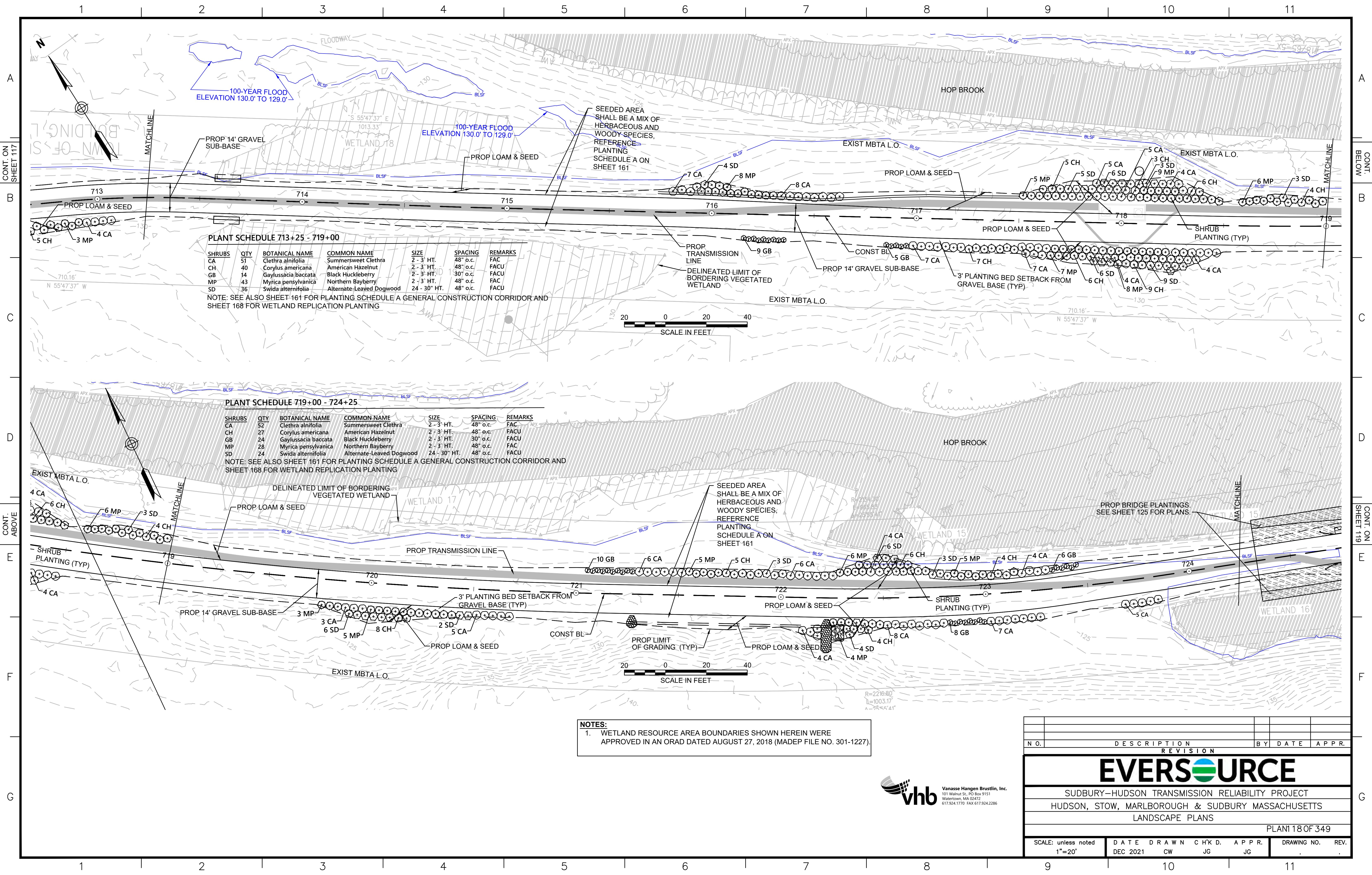


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**PLANT SCHEDULE 713+25 - 719+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	51	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	40	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	14	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	43	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	36	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

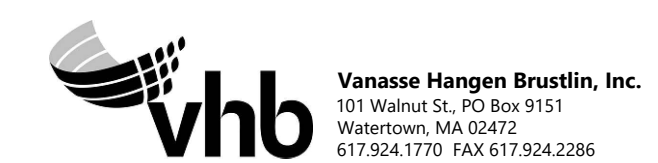
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

**PLANT SCHEDULE 719+00 - 724+25**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	52	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	27	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	24	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	28	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	24	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

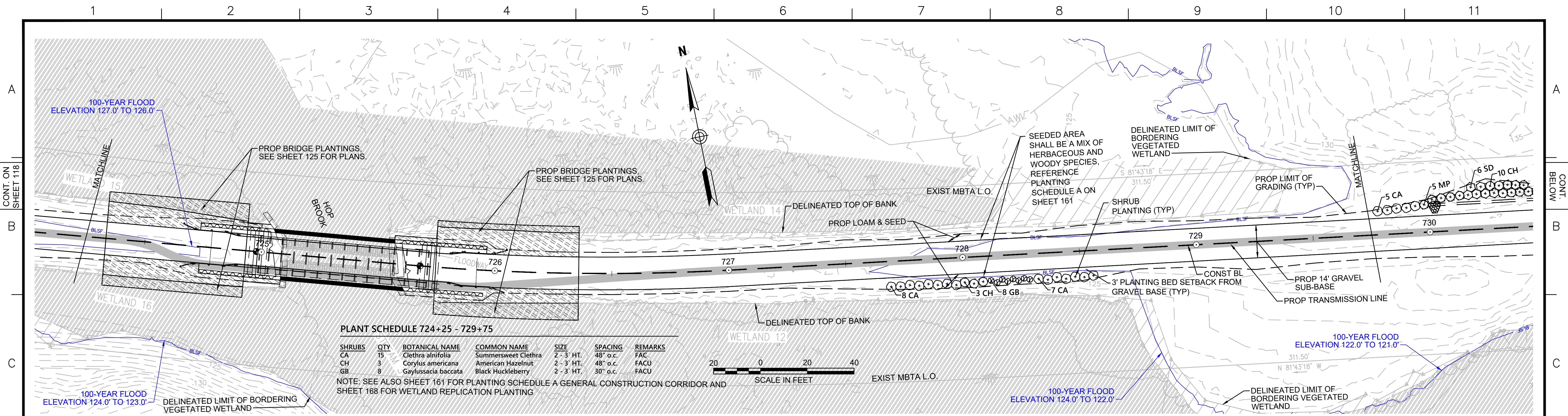
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 18 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

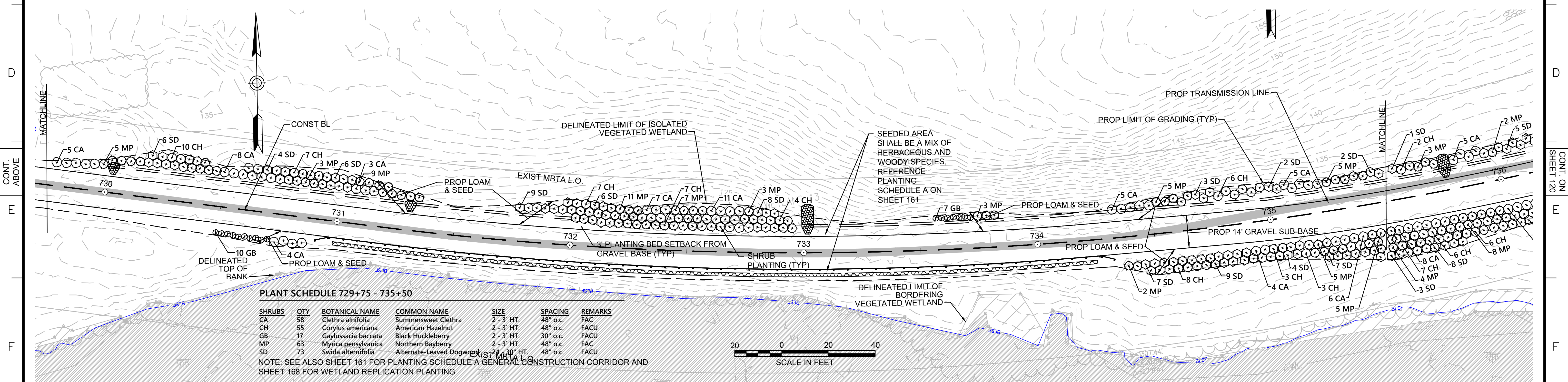




**PLANT SCHEDULE 724+25 - 729+75**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	15	<i>Clethra alnifolia</i>	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	3	<i>Corylus americana</i>	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	8	<i>Gaylussacia baccata</i>	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**PLANT SCHEDULE 729+75 - 735+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	58	<i>Clethra alnifolia</i>	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	55	<i>Corylus americana</i>	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	17	<i>Gaylussacia baccata</i>	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	63	<i>Myrica pensylvanica</i>	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	73	<i>Swida alternifolia</i>	Alternate-Leaved Dogwood	2 - 3' HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

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



NO.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 119 OF 349				
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			



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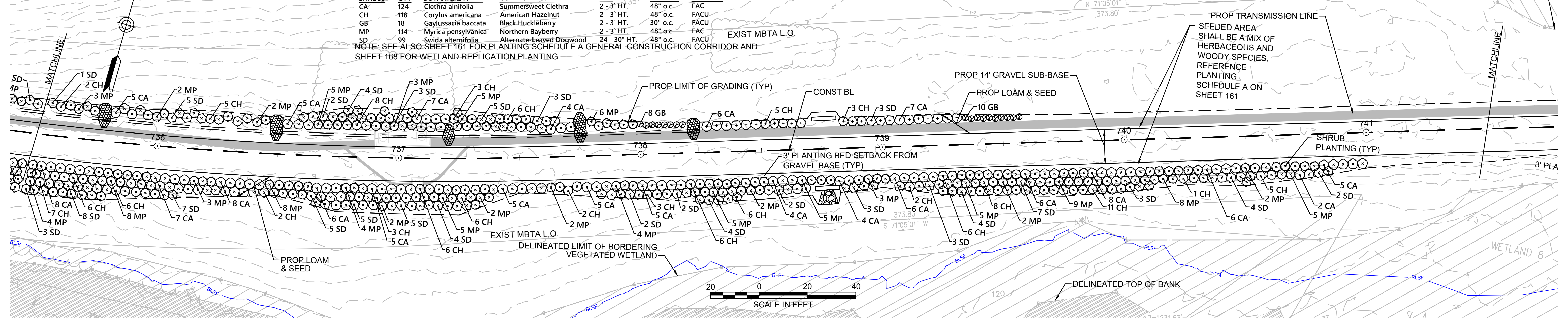
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**PLANT SCHEDULE 735+50 - 741+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	124	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	118	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	18	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	114	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	99	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

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NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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**PLANT SCHEDULE 741+50 - 747+00**

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AR	1	Acer rubrum	Red Maple	1 1/2" CAL	FAC

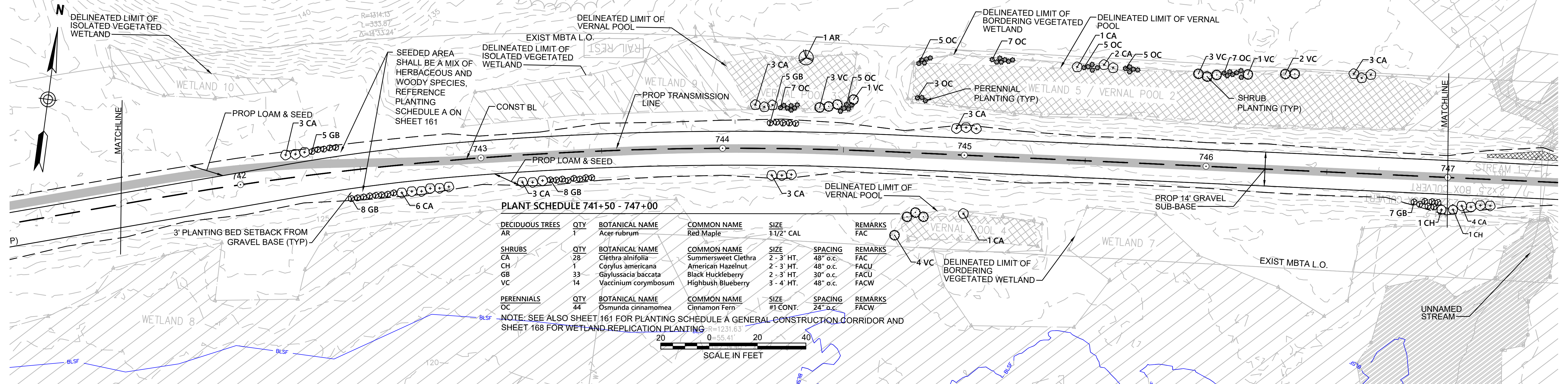
  

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	28	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	1	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	33	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
VC	14	Vaccinium corymbosum	Highbush Blueberry	3 - 4' HT.	48" o.c.	FACW

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
OC	44	Osmunda cinnamomea	Cinnamon Fern	#1 CONT.	24" o.c.	FACW

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

**EVERSOURCE**

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

PLAN 120 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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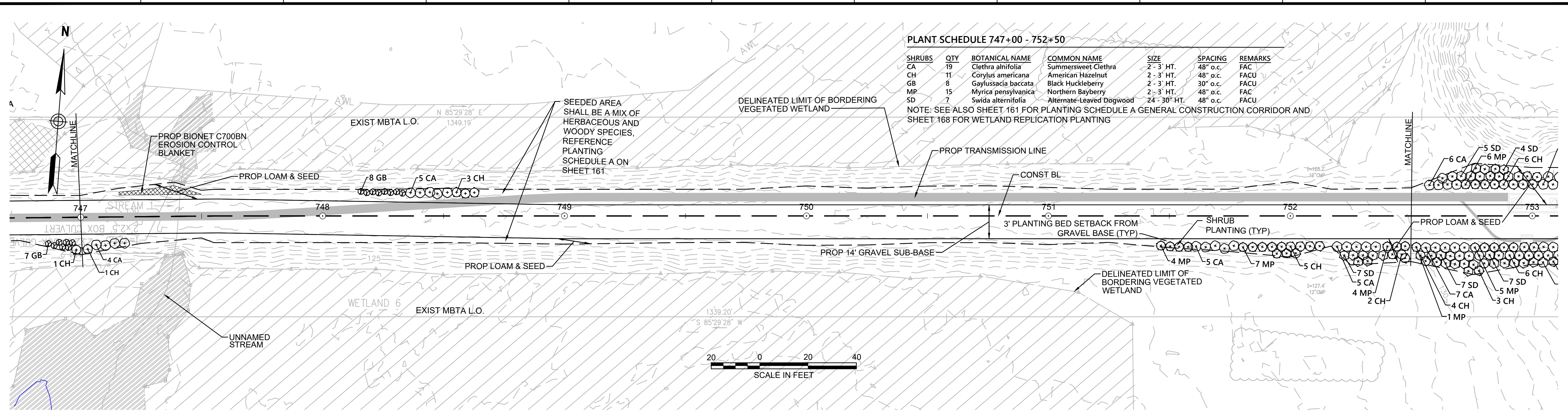
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**PLANT SCHEDULE 747+00 - 752+50**

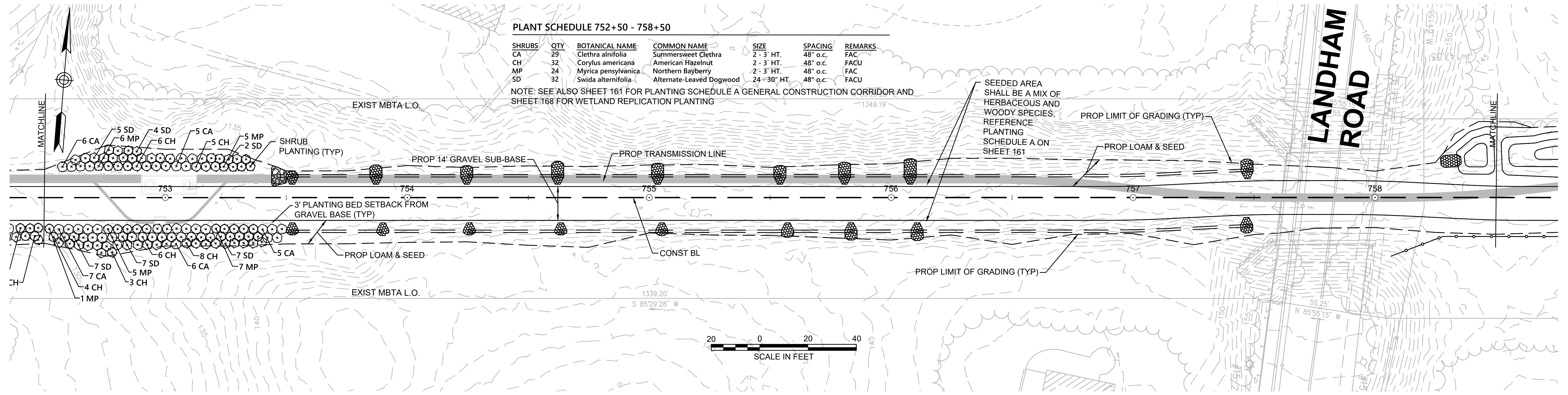
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	19	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	11	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	8	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	15	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	7	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

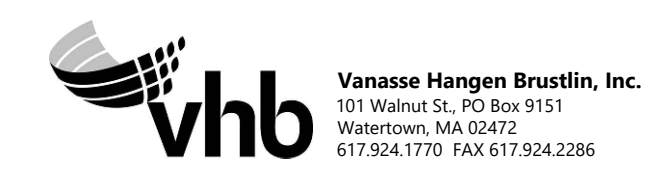
**PLANT SCHEDULE 752+50 - 758+50**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	29	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	32	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	24	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	32	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

**EVERSOURCE**

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

PLAN 121 OF 349

SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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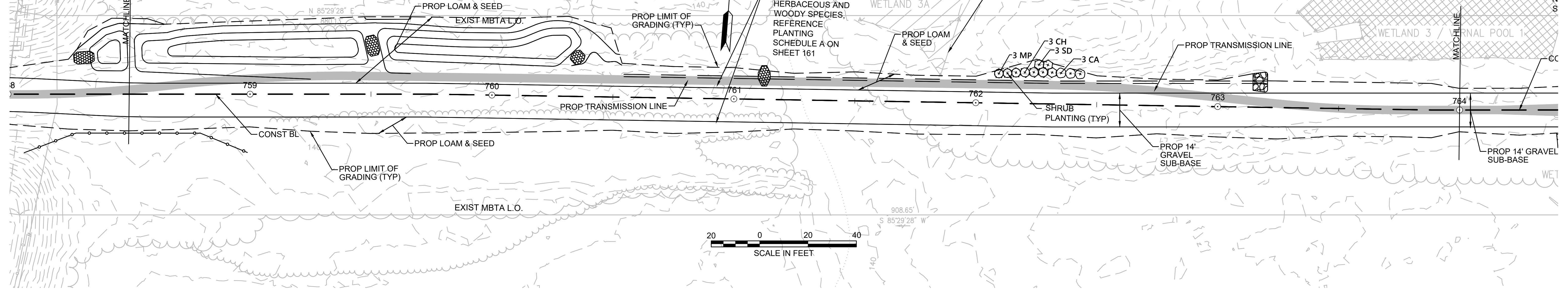
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**PLANT SCHEDULE 758+50 - 764+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	3	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	3	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	3	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	3	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

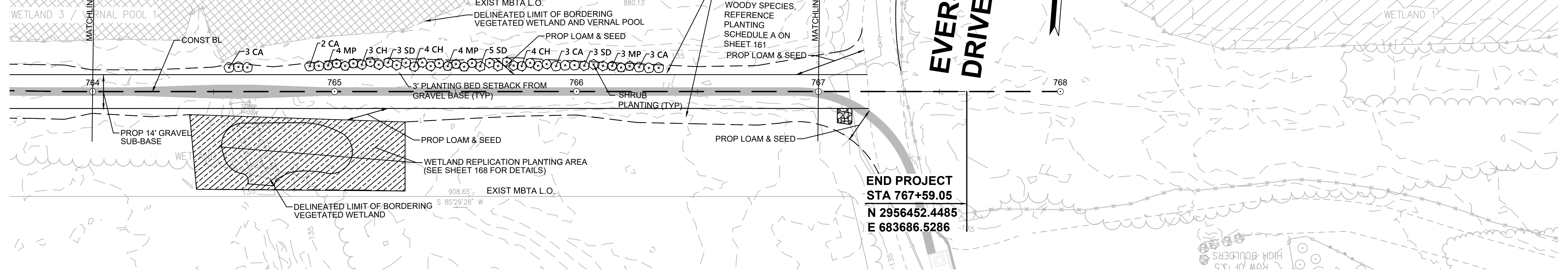
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**PLANT SCHEDULE 764+00 - 767+00**

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	11	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	11	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	11	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	11	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU

NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



**END PROJECT  
STA 767+59.05  
N 2956452.4485  
E 683686.5286**

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



NO.		DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 122 OF 349					
SCALE: unless noted 1"=20'	DATE DEC 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

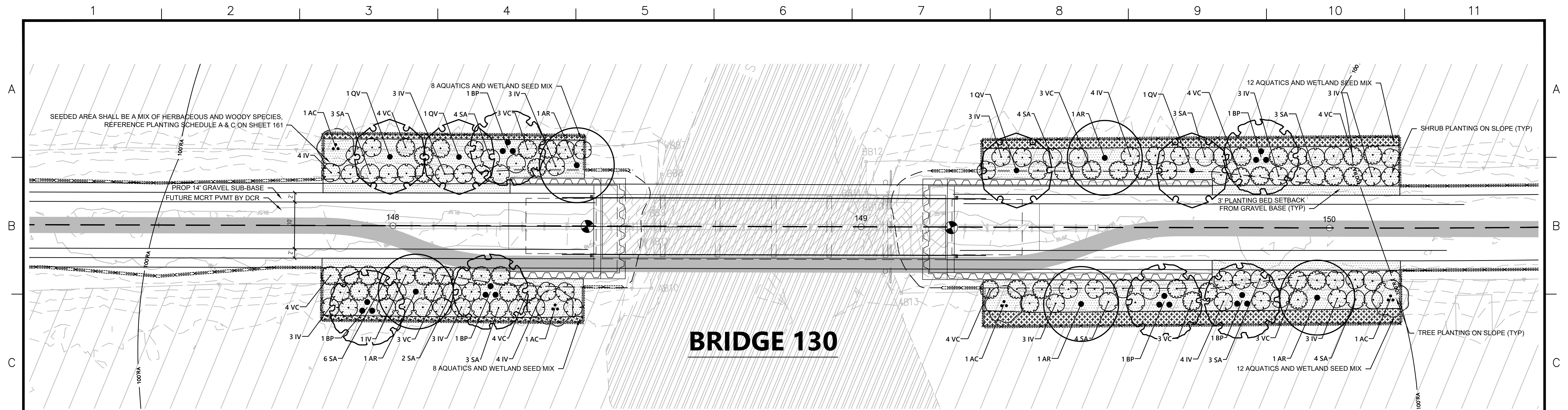
1 2 3 4 5 6 7 8 9 10 11

CONT. ABOVE

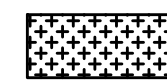

CONT. BELOW



# BRIDGE 130



### LEGEND

-  AQUATIC PLANTS AND WETLAND SEED MIX
-  SEEDED AREA

### PLANT SCHEDULE WEST SIDE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	2	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	2	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	2	Quercus velutina	Black Oak	1 1/2" CAL	UPL

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	FACW
IV	21	Ilex verticillata	Winterberry	3' - 4'	48" o.c.	FACW
SA	18	Swida amomum	Silky Dogwood	3' - 4'	48" o.c.	FACW
VC	18	Vaccinium corymbosum	Highbush Blueberry	3' - 4'	48" o.c.	FACW

AQUATICS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
	4	Alisma plantago-aquatica	Northern Water-Plantain	2" plug	OBL
	4	Peltandra virginica	Green Arrow-Arum	2" plug	OBL
	4	Pontederia cordata	Pickernelweed	2" plug	OBL
	4	Sagittaria latifolia	Common Arrowhead	2" plug	OBL

### PLANT SCHEDULE EAST SIDE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	3	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	2	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	2	Quercus velutina	Black Oak	1 1/2" CAL	UPL

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	FACW
IV	23	Ilex verticillata	Winterberry	3' - 4'	48" o.c.	FACW
SA	21	Swida amomum	Silky Dogwood	3' - 4'	48" o.c.	FACW
VC	21	Vaccinium corymbosum	Highbush Blueberry	3' - 4'	48" o.c.	FACW

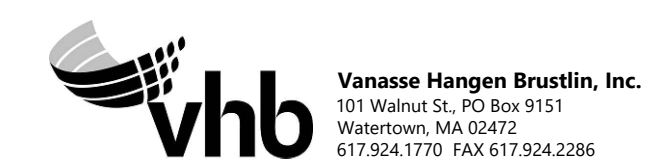
  

AQUATICS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
	6	Alisma plantago-aquatica	Northern Water-Plantain	2" plug	OBL
	6	Peltandra virginica	Green Arrow-Arum	2" plug	OBL
	6	Pontederia cordata	Pickernelweed	2" plug	OBL
	6	Sagittaria latifolia	Common Arrowhead	2" plug	OBL

### WETLAND SEED MIX

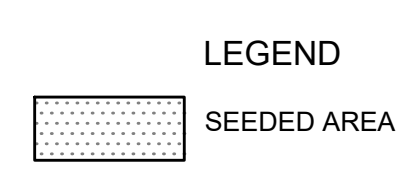
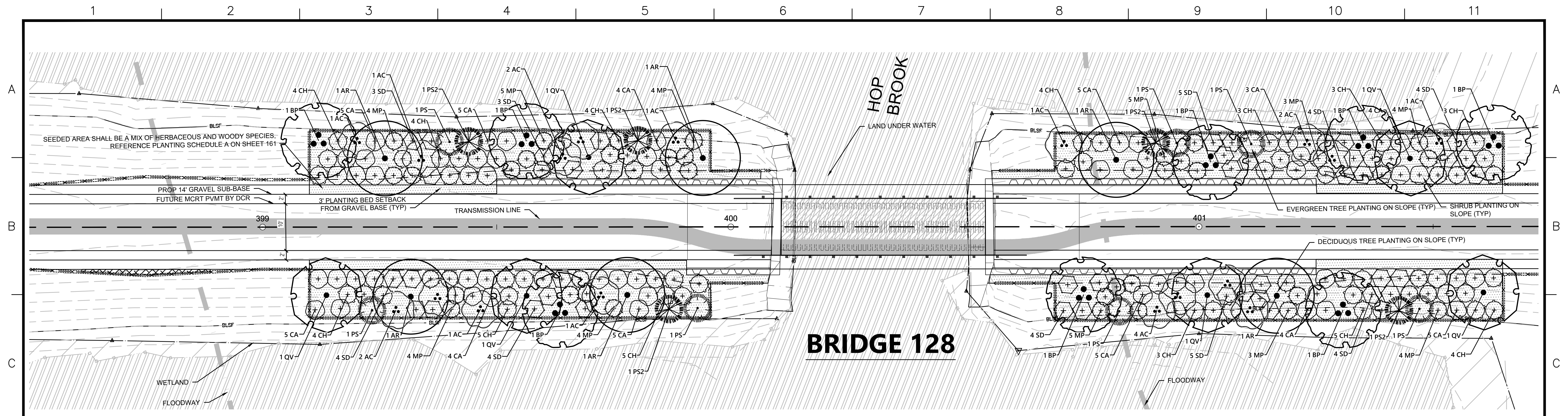
WETLAND SEED MIX SHALL BE APPLIED AT A DENSITY OF 18LB./AC.

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*).



N. O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 123 OF 349				
SCALE: unless noted 1"=10'	DATE	DRAWN	CHK'D	APPR.
	DEC 2021	MS	SK	MES
DRAWING NO.	REV.			





**PLANT SCHEDULE WEST SIDE**

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	4	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	9	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	3	Quercus velutina	Black Oak	1 1/2" CAL	UPL
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
PS	3	Pinus strobus	White Pine	6 - 8' HT.	FACU
PS2	3	Pinus strobus	White Pine	8 - 10' HT.	FACU
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CA	28	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c. FAC
CH	26	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c. FACU
MP	21	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c. FAC
SD	14	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c. FACU

**PLANT SCHEDULE EAST SIDE**

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	2	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	8	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	5	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	3	Quercus velutina	Black Oak	1 1/2" CAL	UPL
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
PS	4	Pinus strobus	White Pine	6 - 8' HT.	FACU
PS2	2	Pinus strobus	White Pine	8 - 10' HT.	FACU
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CA	26	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c. FAC
CH	25	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c. FACU
MP	24	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c. FAC
SD	26	Swida alternifolia	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c. FACU



N. O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

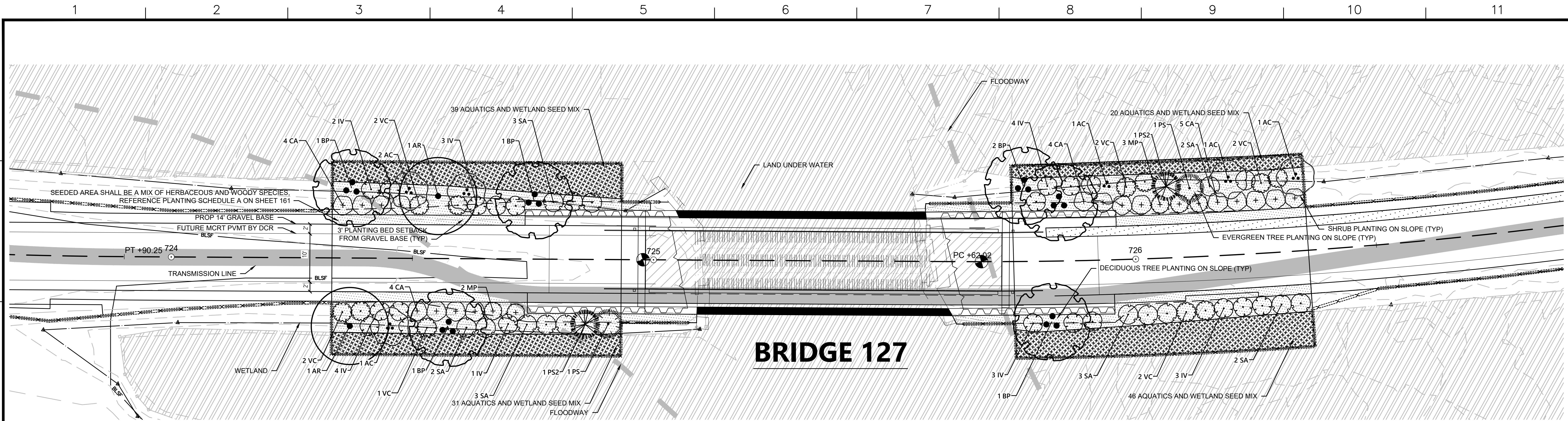
**EVERSOURCE**

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

PLANT 24 OF 349

SCALE: unless noted 1"=10'	DATE DEC 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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# BRIDGE 127

### LEGEND

- AQUATIC PLANTS AND WETLAND SEED MIX
- SEEDING AREA

### PLANT SCHEDULE WEST SIDE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	2	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	3	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
PS	1	Pinus strobus	White Pine	6 - 8' HT.	FACU
PS2	1	Pinus strobus	White Pine	8 - 10' HT.	FACU
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CA	8	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c. FAC
IV	10	Ilex verticillata	Winterberry	3 - 4' HT.	48" o.c. FACW
MP	2	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c. FAC
SA	8	Swida amomum	Silky Dogwood	3 - 4' HT.	48" o.c. FACW
VC	5	Vaccinium corymbosum	Highbush Blueberry	3 - 4' HT.	48" o.c. FACW
AQUATICS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
	18	Alisma plantago-aquatica	Northern Water-Plantain	2" plug	36" o.c. OBL
	18	Peltandra virginica	Green Arrow-Arum	2" plug	36" o.c. OBL
	17	Pontederia cordata	Pickereelweed	2" plug	36" o.c. OBL
	17	Sagittaria latifolia	Common Arrowhead	2" plug	36" o.c. OBL

### PLANT SCHEDULE EAST SIDE

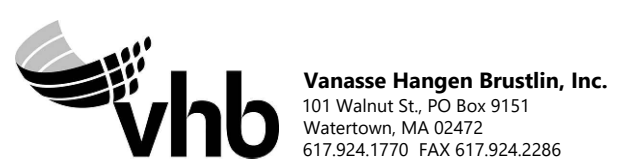
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AC	3	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
PS	1	Pinus strobus	White Pine	6 - 8' HT.	FACU
PS2	1	Pinus strobus	White Pine	8 - 10' HT.	FACU
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CA	9	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c. FAC
IV	10	Ilex verticillata	Winterberry	3 - 4' HT.	48" o.c. FACW
MP	3	Myrica pensylvanica	Northern Bayberry	2 - 3' HT.	48" o.c. FAC
SA	7	Swida amomum	Silky Dogwood	3 - 4' HT.	48" o.c. FACW
VC	6	Vaccinium corymbosum	Highbush Blueberry	3 - 4' HT.	48" o.c. FACW
AQUATICS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
	17	Alisma plantago-aquatica	Northern Water-Plantain	2" plug	36" o.c. OBL
	17	Peltandra virginica	Green Arrow-Arum	2" plug	36" o.c. OBL
	16	Pontederia cordata	Pickereelweed	2" plug	36" o.c. OBL
	16	Sagittaria latifolia	Common Arrowhead	2" plug	36" o.c. OBL

### WETLAND SEED MIX

WETLAND SEED MIX SHALL BE APPLIED AT A DENSITY OF 18LB./AC.

"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 mangrass (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 (Symphyotrichum novae-angliae), rattlesnake mangrass (Glyceria canadensis), purple-stem aster (Symphyotrichum puniceum), soft-stemmed bulrush (Schoenoplectus tabernaemontani), blueflag (Iris versicolor), swamp milkweed (Asclepias incarnata), and Allegheny monkey-flower (Mimulus ringens).

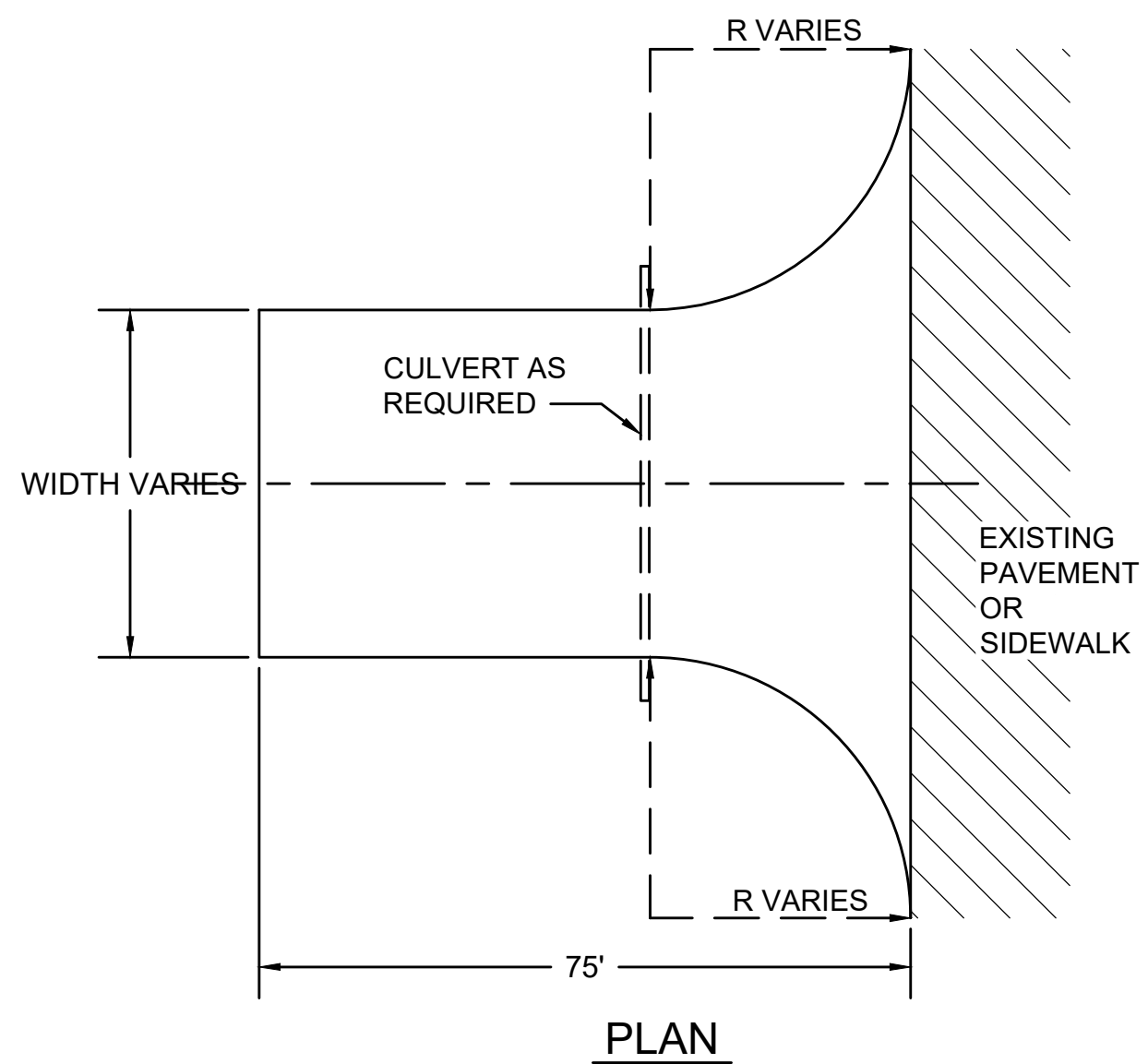
NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
<b>EVERSOURCE</b>						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
LANDSCAPE PLANS						
PLAN 125 OF 349						
SCALE: unless noted 1"=10'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO.	REV.
	DEC 2021	MS	SK	MES		





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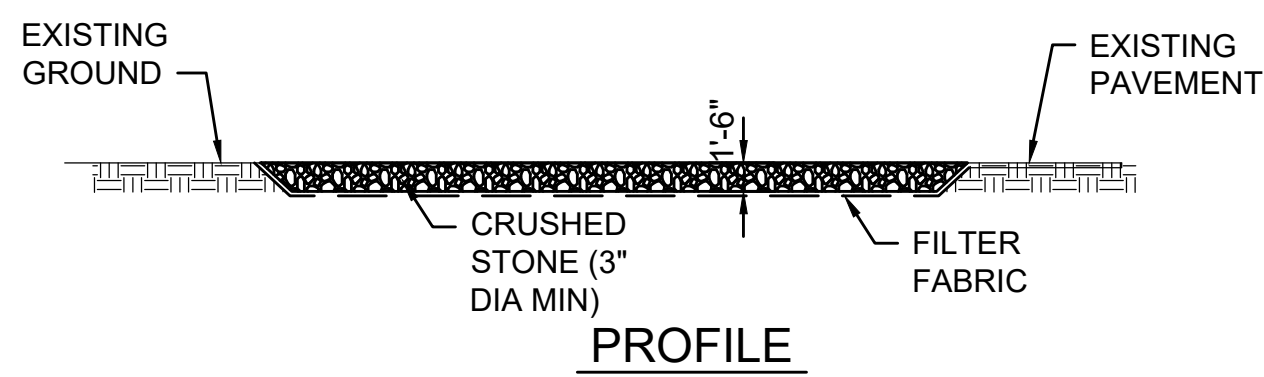
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PLAN

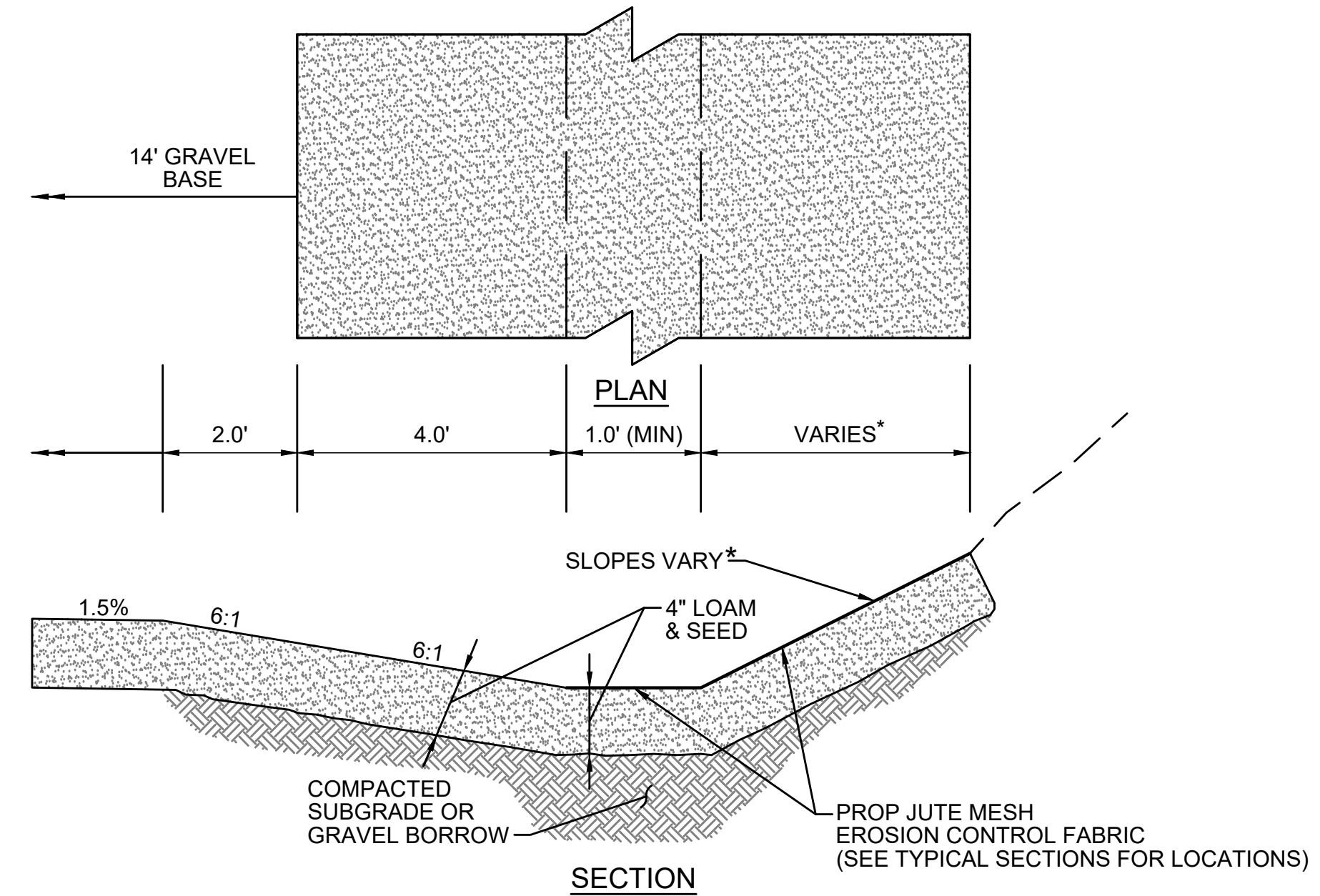
STABILIZED CONSTRUCTION ENTRANCE LOCATIONS
WILKINS STREET
MAIN STREET
PARMENTER ROAD
WHITE POND ROAD
DUTTON ROAD
PEAKHAM ROAD
HORSE POND ROAD
UNION AVENUE
BOSTON POST ROAD
SUDBURY SUBSTATION DRIVEWAY

- 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.
  3. CONTRACTOR SHALL SWEEP PAVED AREAS ADJACENT TO THE SITE ON A DAILY BASIS.
  4. ALL PEDESTRIAN CROSSINGS MUST BE MAINTAINED AT ALL TIMES.
  5. CONTRACTOR TO REPLACE CRUSHED STONE WITH CLEAN STONE AS REQUIRED.



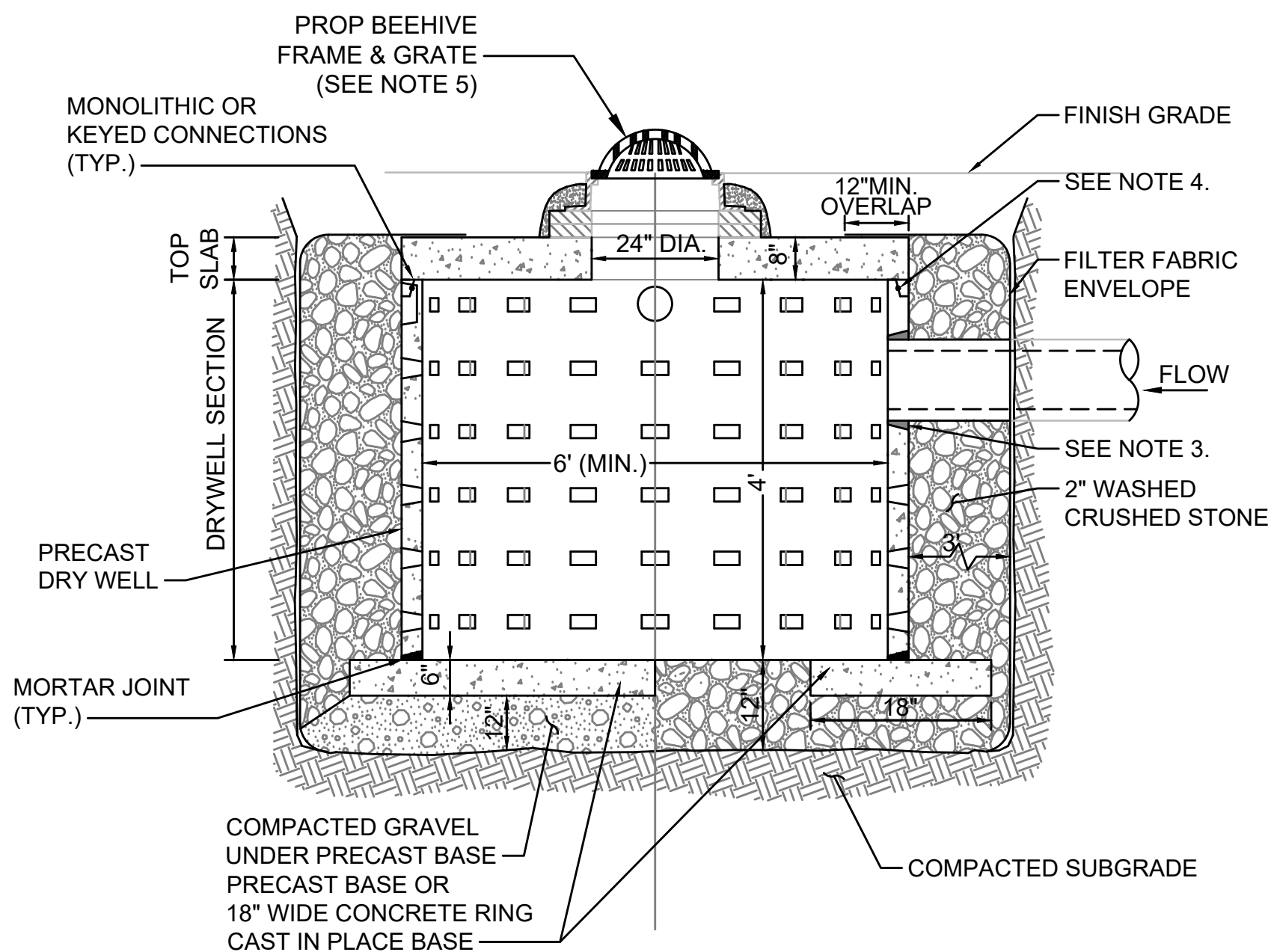
PROFILE

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



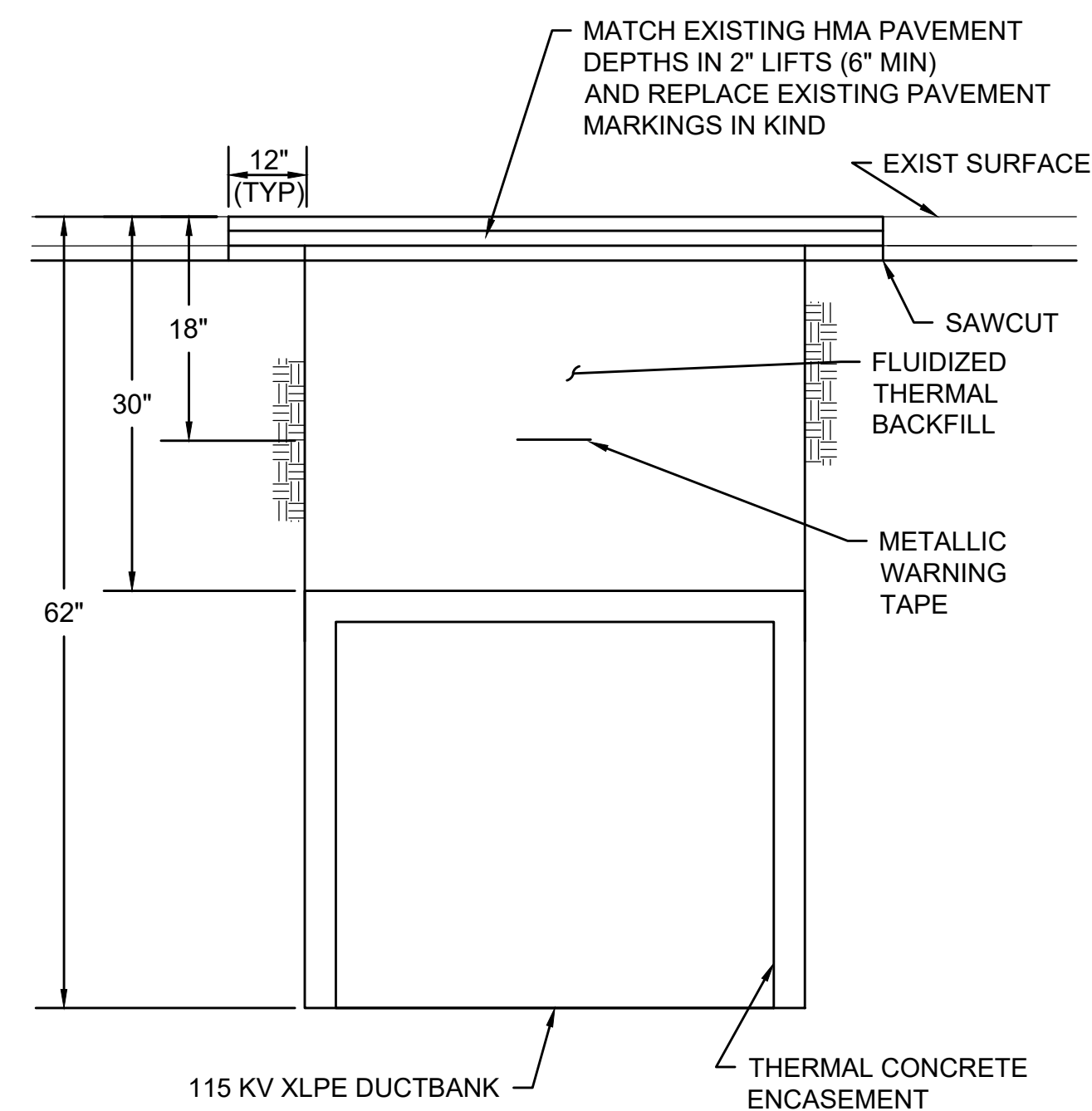
SECTION

\*SEE TYPICAL SECTIONS & CROSS SECTIONS FOR ADDITIONAL INFORMATION  
**SWALE/AREA OF INCREASED INFILTRATION**  
SCALE: N.T.S.

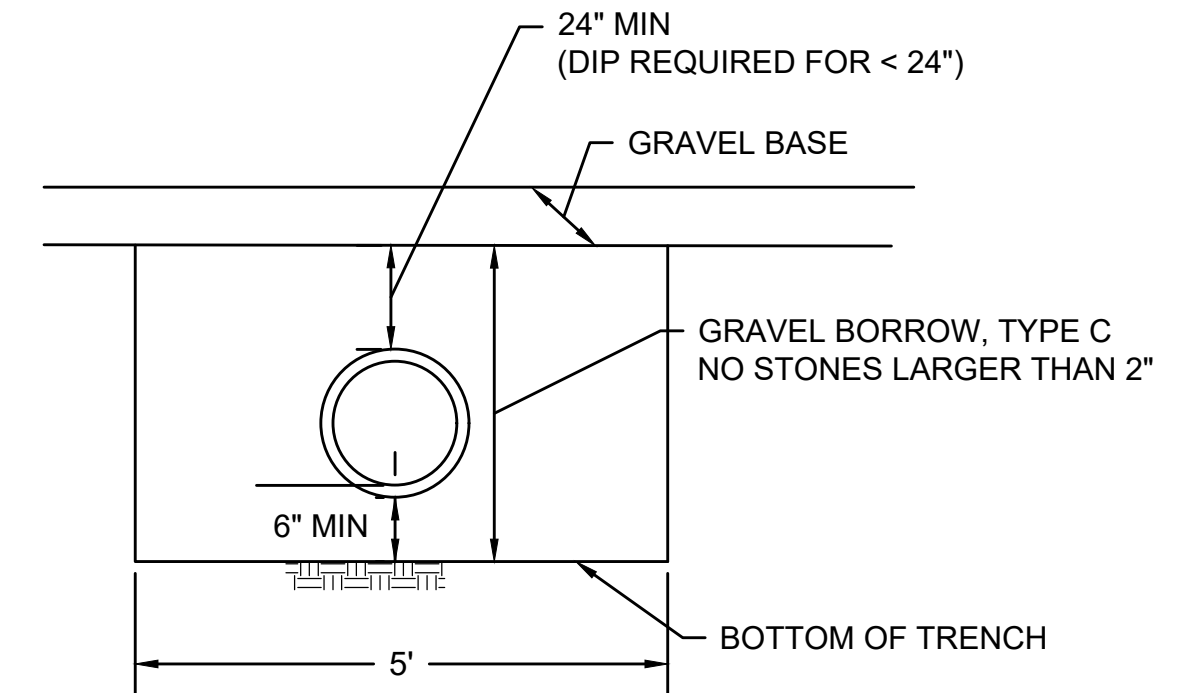


- NOTES
1. BASE SECTION SHALL BE PRECAST CONCRETE WITH MORTARED JOINTS OR CAST IN PLACE.
  2. ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING.
  3. PROVIDE PRECAST OPENINGS FOR PIPES WITH 2\"/>

**LEACHING CATCH BASIN**  
SCALE: N.T.S.



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



- NOTE:
1. GRAVEL BORROW FOR TRENCH BACKFILL MUST BE NEW MATERIAL. EXCESS FILL MATERIAL FROM SITE CANNOT BE USED.

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

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 152 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

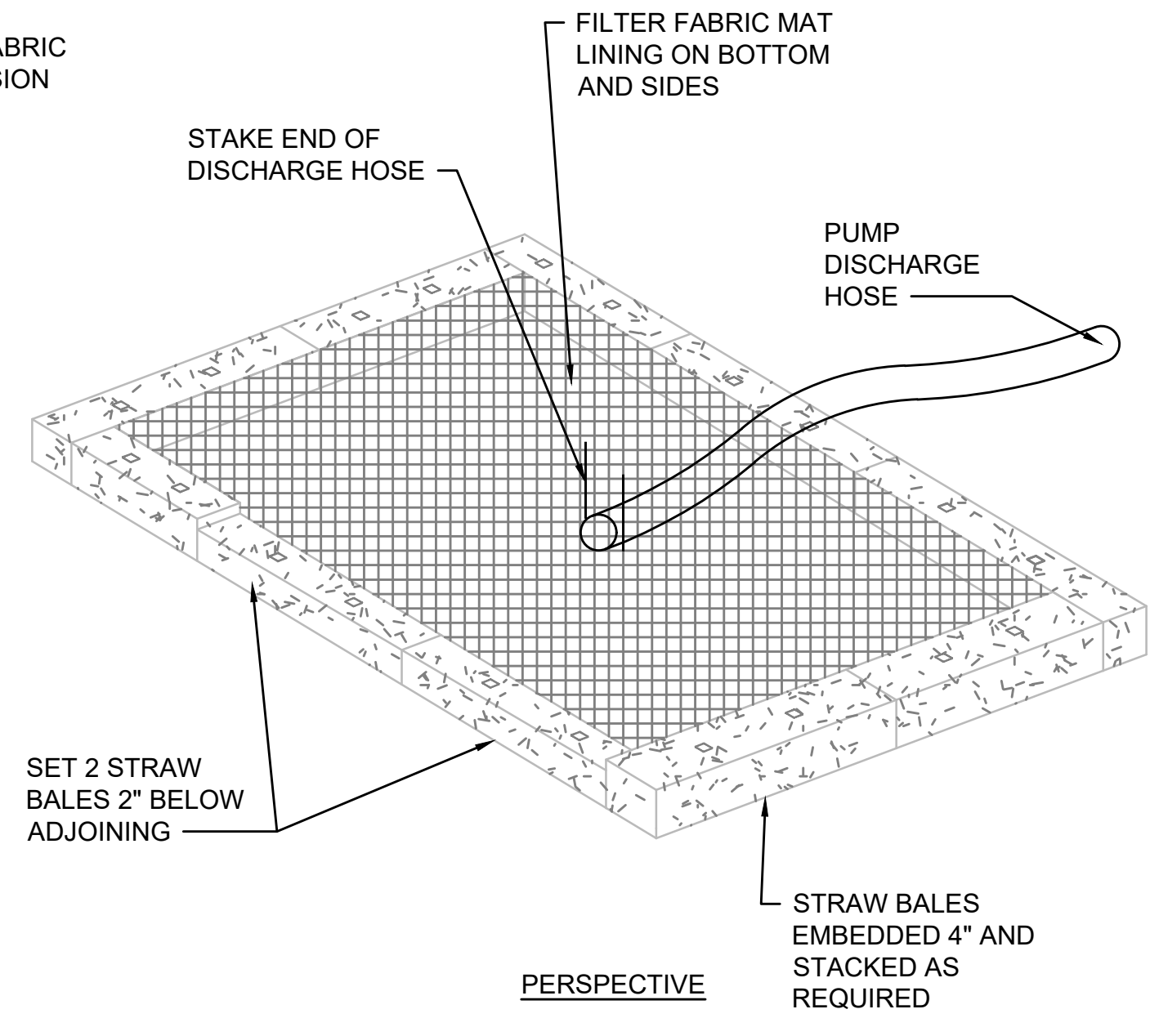
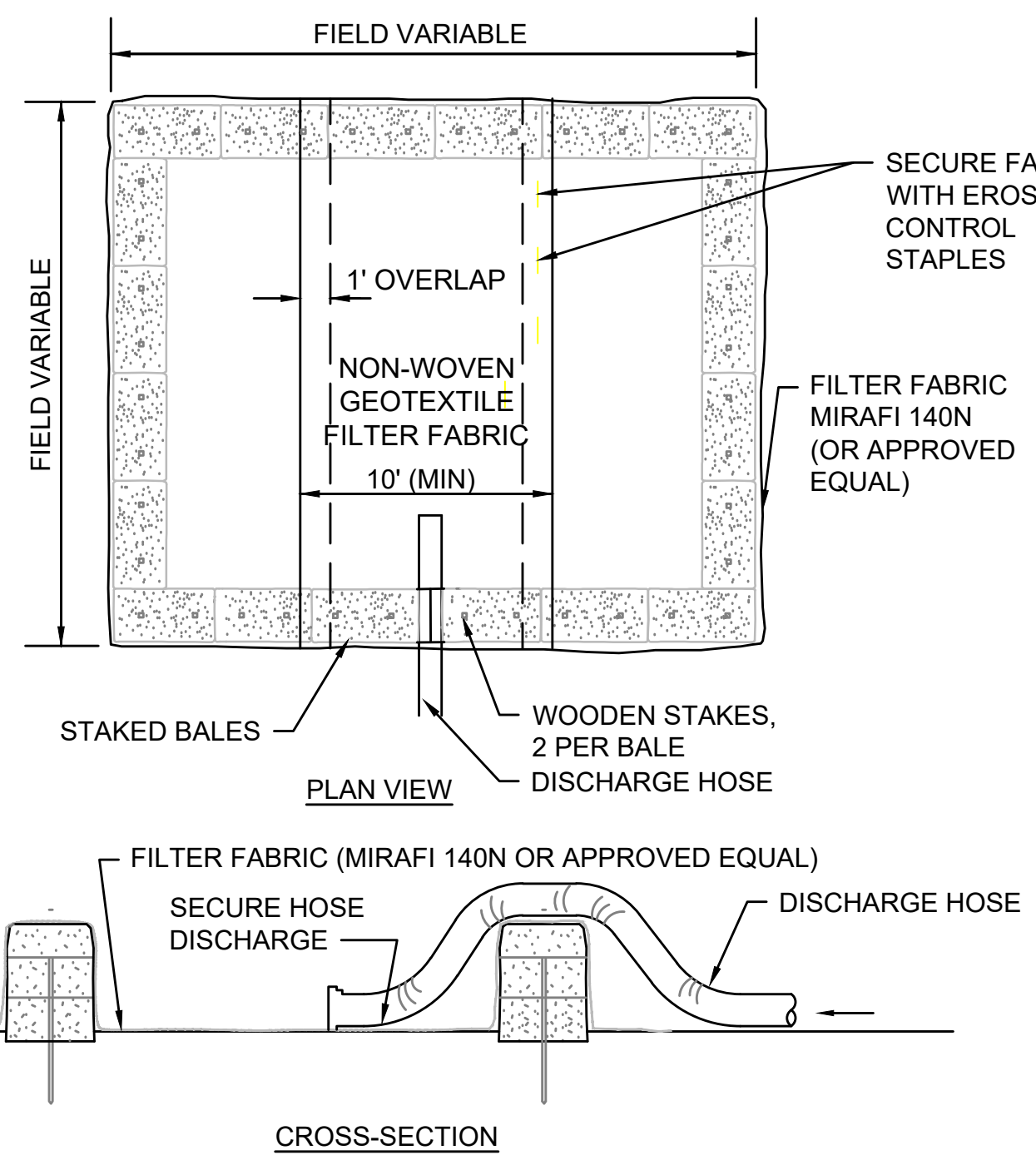
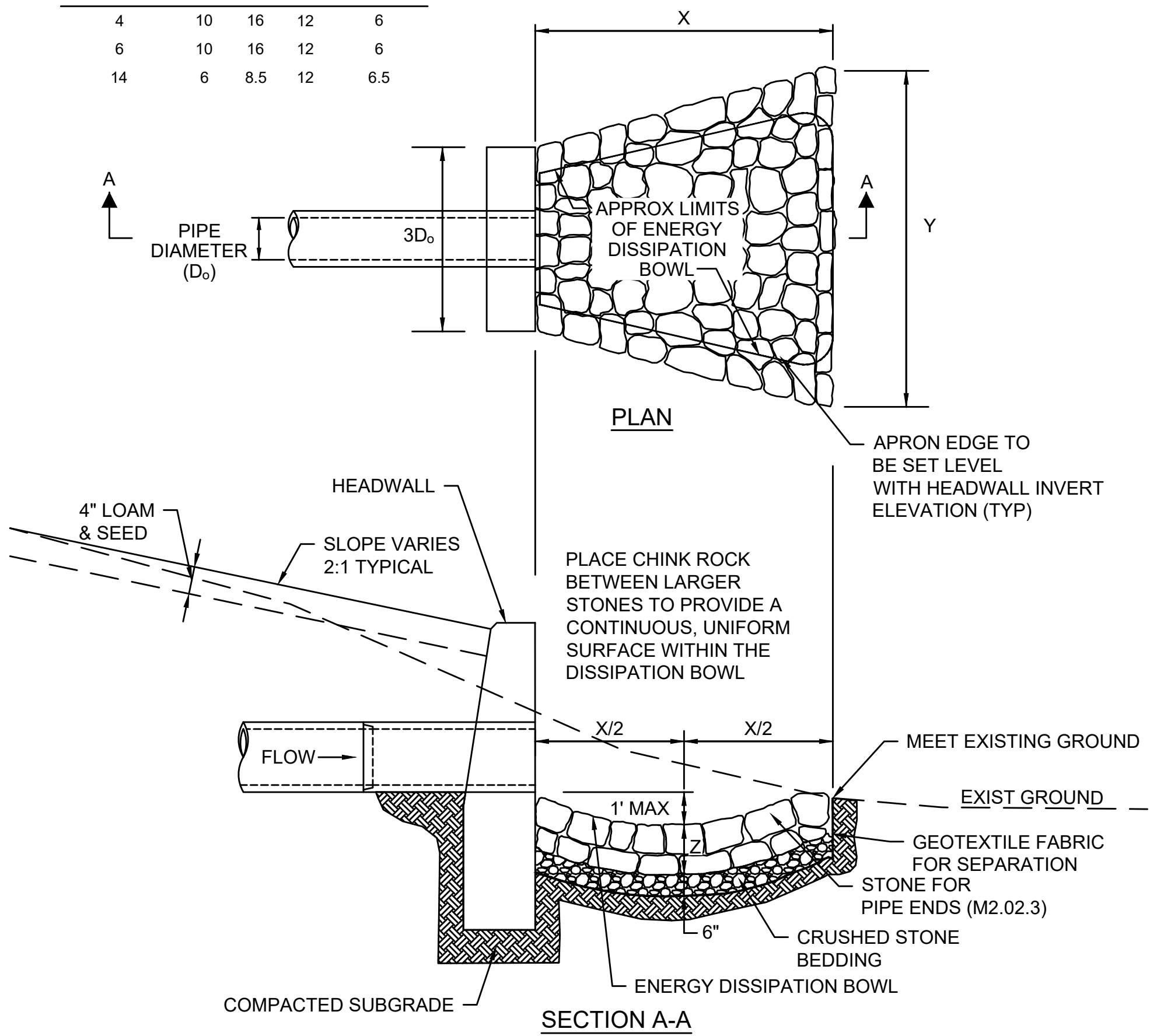


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**RIPRAP STONE**

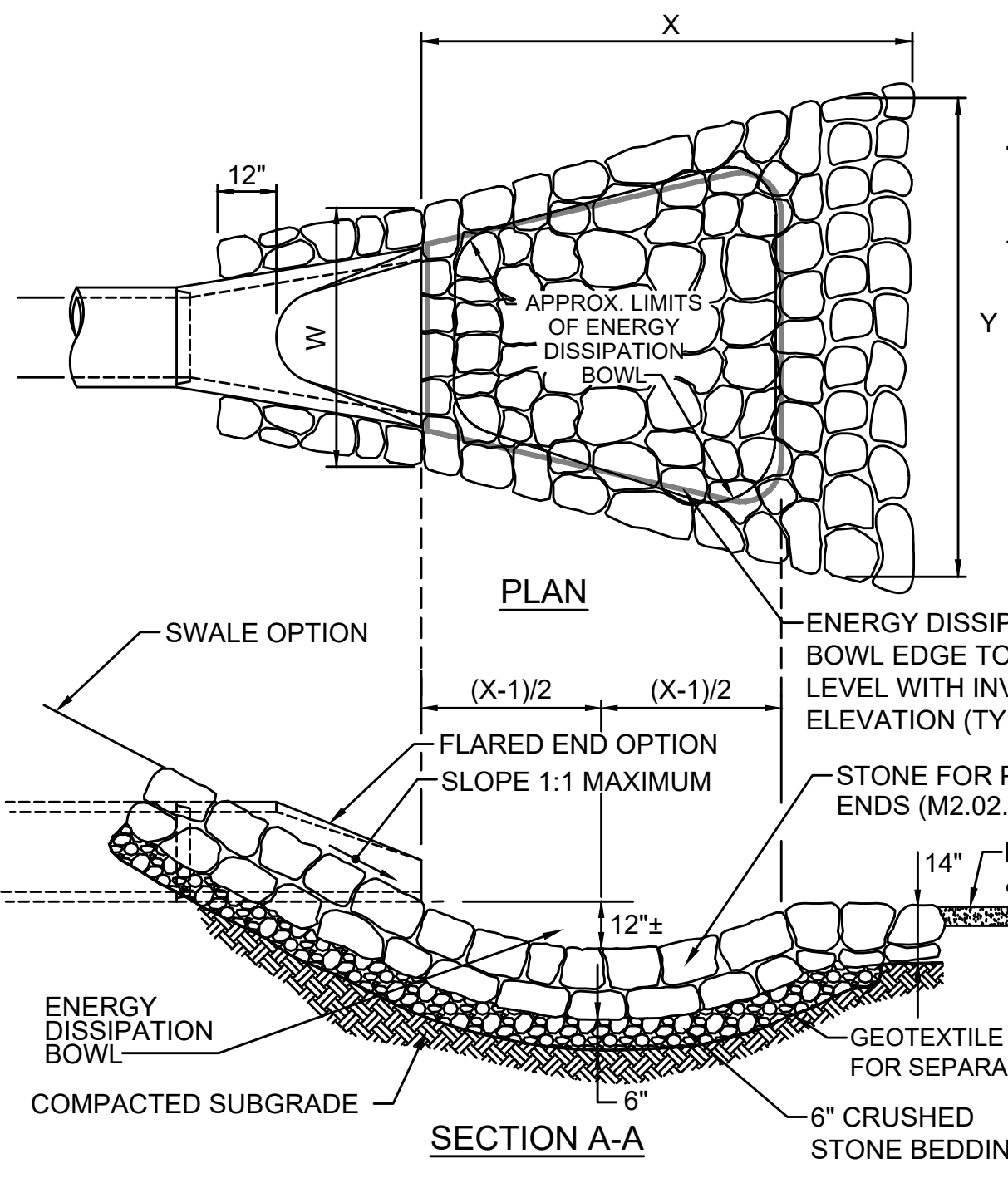
STRUCTURE NUMBER	X (FT)	Y (FT)	Z (IN)	STONE DIA. (D <sub>50</sub> ) (IN)
4	10	16	12	6
6	10	16	12	6
14	6	8.5	12	6.5



- NOTES:**
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
  2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.

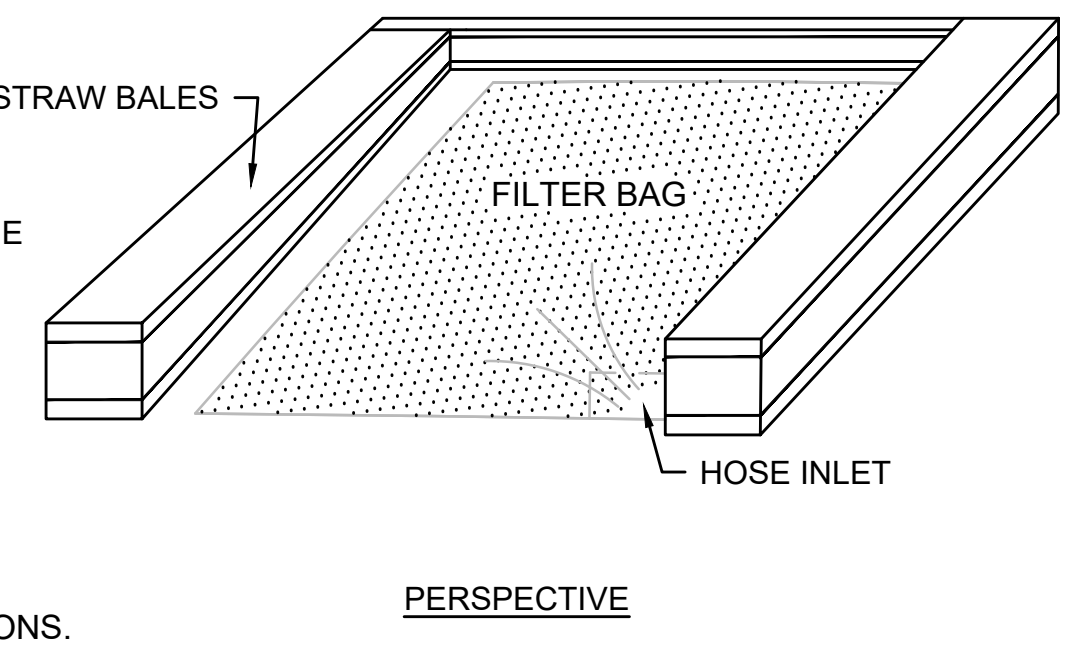
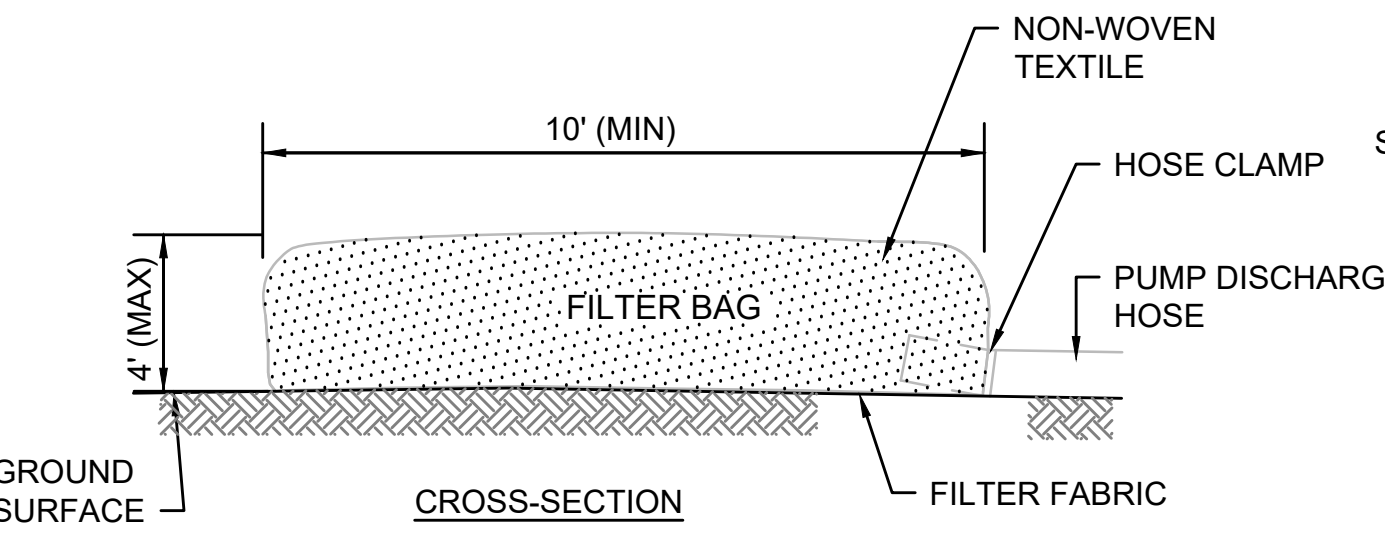
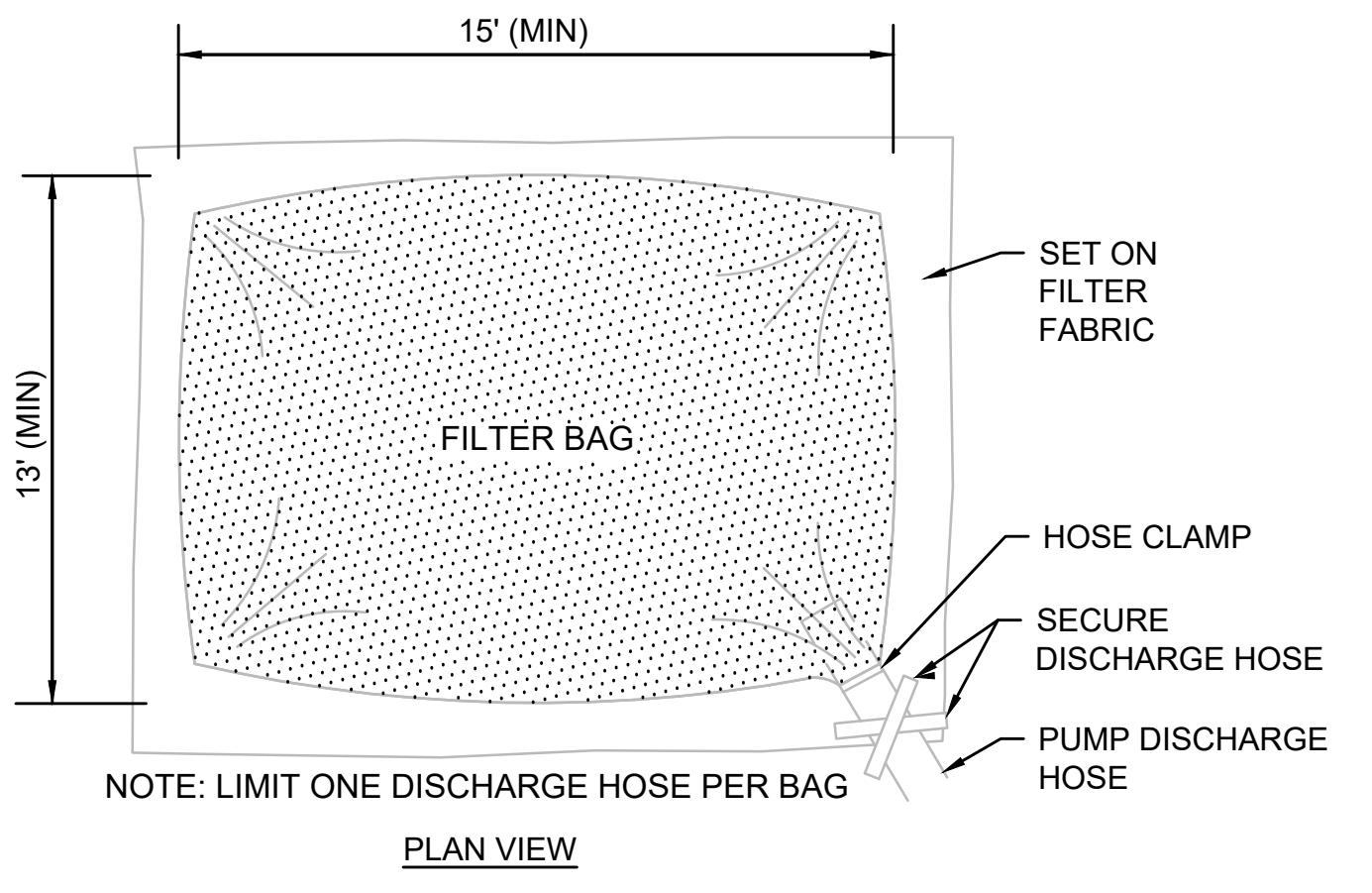
**DEWATERING STRAW BALE BASIN**  
SCALE: N.T.S.

**STONE FOR PIPE ENDS**  
SCALE: N.T.S.



**RIPRAP STONE**

DESIGN OPTION	W (FT)	X (FT)	Y (FT)	STONE DIA. (D <sub>50</sub> ) (IN)
STRUCTURE 10	3	4	5	6.5
SWALE	7	6	8	6.5



- NOTE:**
1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**DEWATERING FILTER BAG**  
SCALE: N.T.S.

**STONE PROTECTION AT SWALE/FLARED END (STRUCTURE NUMBER 10)**  
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 153 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



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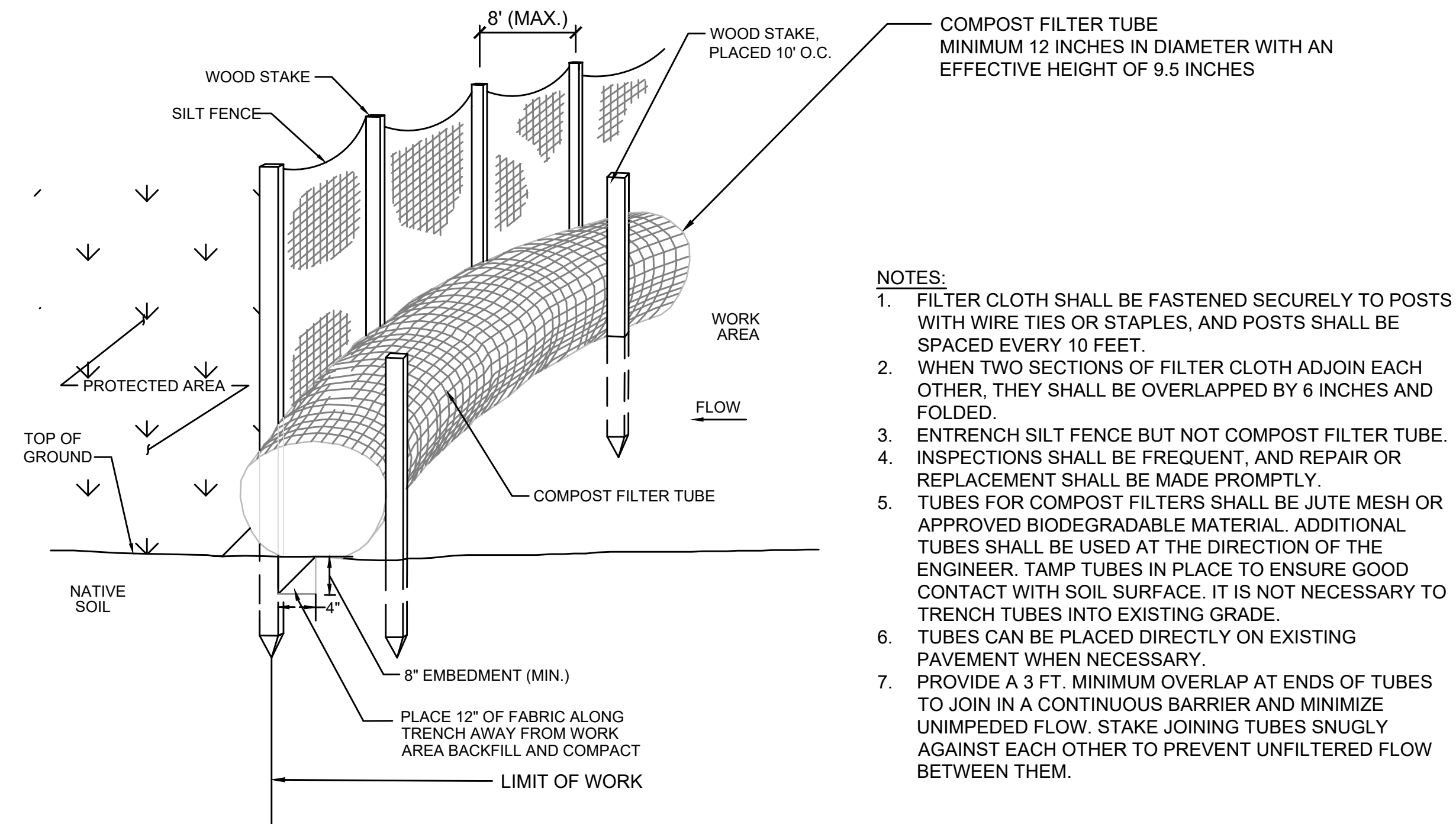
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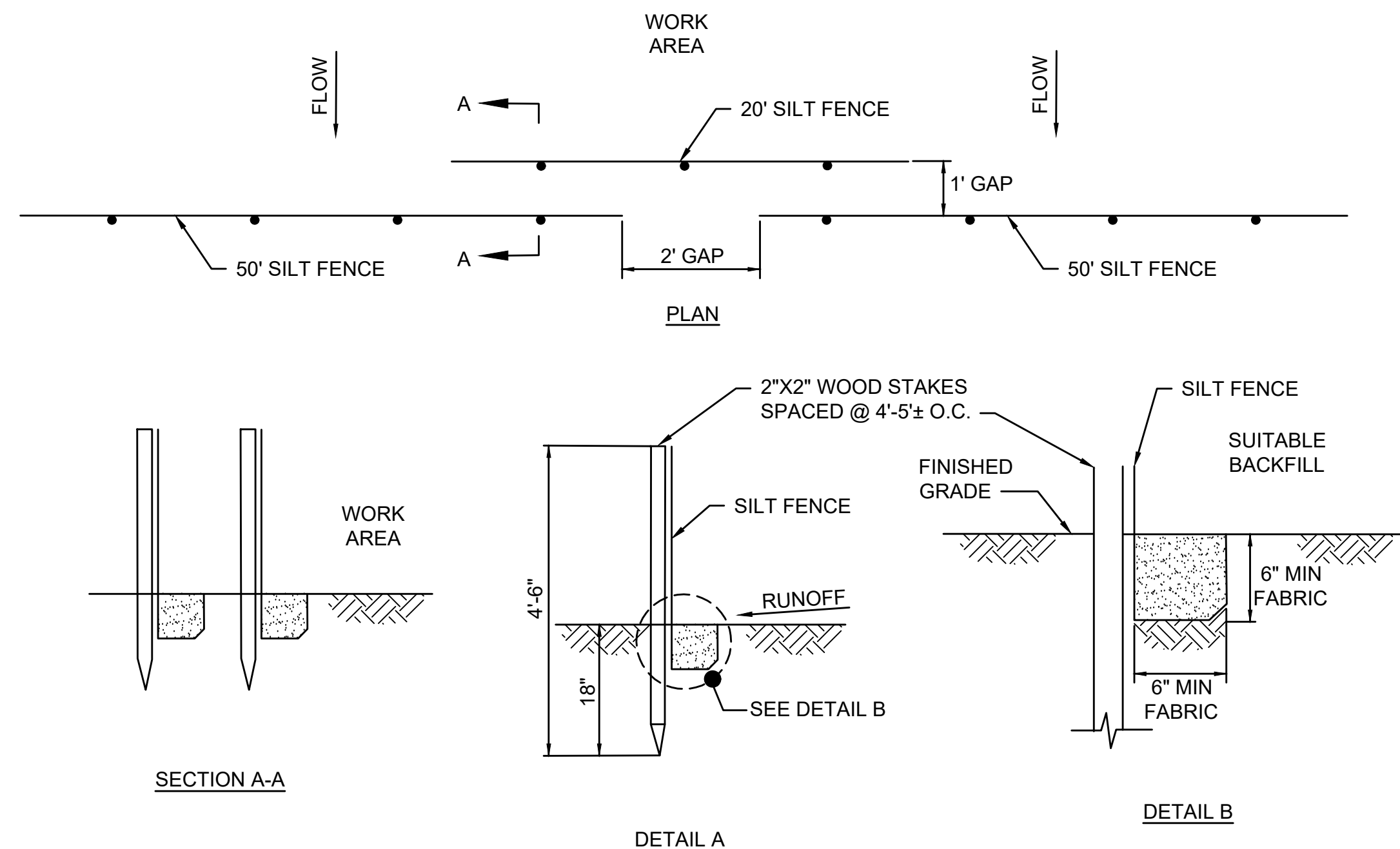
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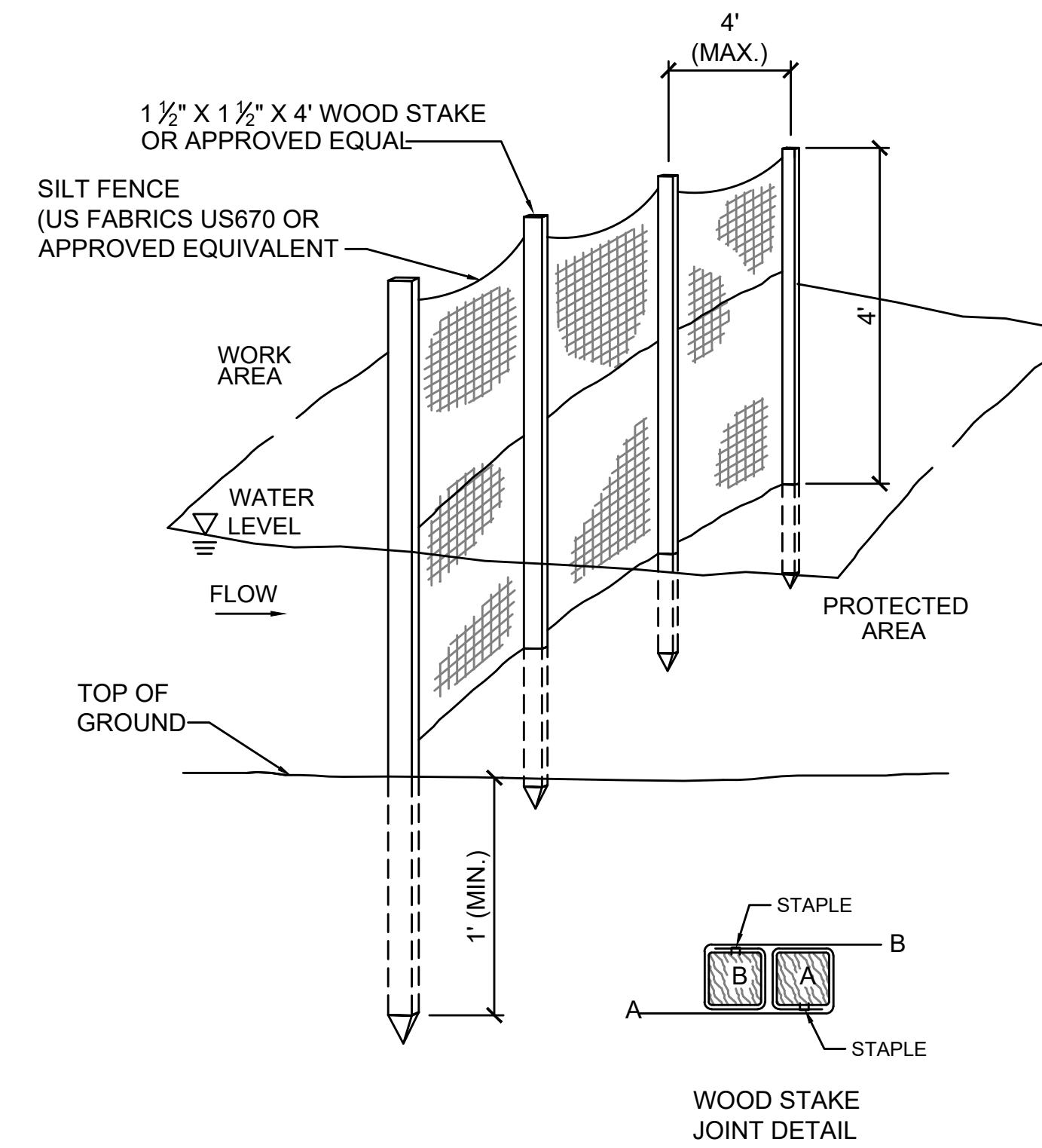
- NOTES:**
1. FILTER CLOTH SHALL BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES, AND POSTS SHALL BE SPACED EVERY 10 FEET.
  2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
  3. ENTRENCH SILT FENCE BUT NOT COMPOST FILTER TUBE. INSPECTIONS 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.

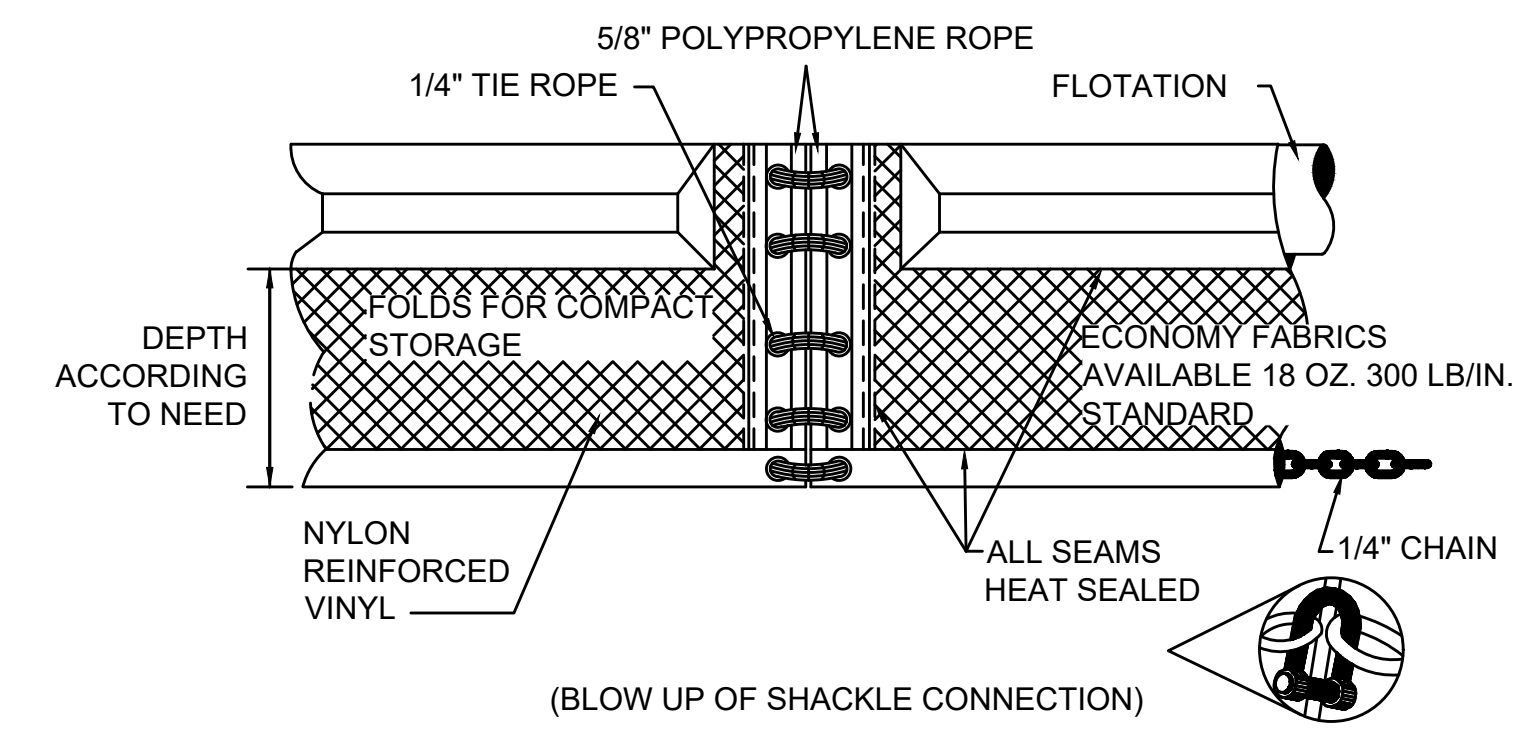


- NOTES:**
1. SYNCPATED SILT FENCE SHALL BE USED WITHIN ALL PRIORITY HABITAT AREAS AND WITHIN 450' OF VERNAL POOLS.
  2. INSTALL GAP AFTER EVERY 50' OF EROSION CONTROL BARRIER.

**SYNCPATED SILT FENCE DETAIL - TYPE B EROSION CONTROL BARRIER**  
SCALE: N.T.S.



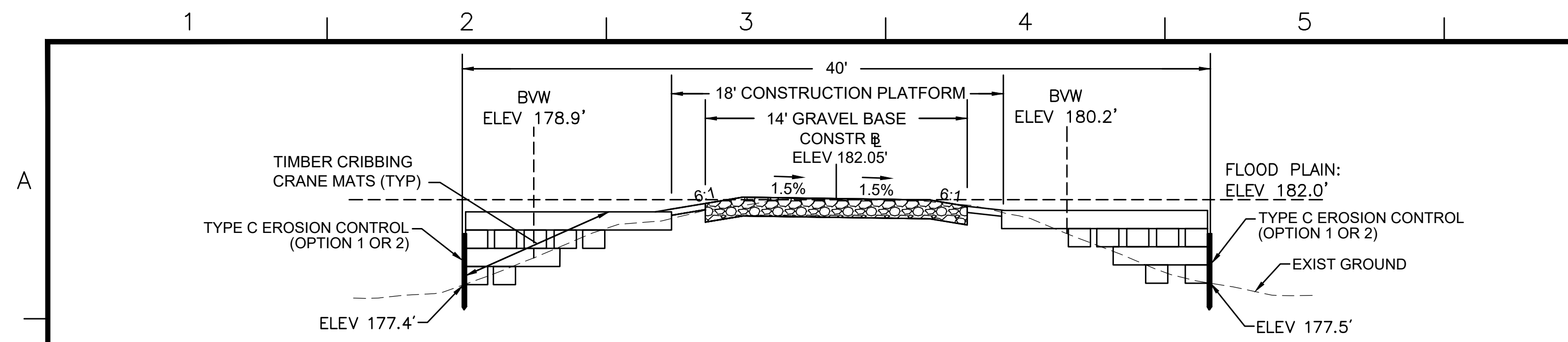
**4' HIGH SILT FENCE BARRIER DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 1)**  
SCALE: N.T.S.



**TURBIDITY CURTAIN DETAIL - EROSION CONTROL BARRIER TYPE C (OPTION 2)**  
SCALE: N.T.S.

NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
<b>EVERSOURCE</b>						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CONSTRUCTION DETAILS						
PLAN 154 OF 347						
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.

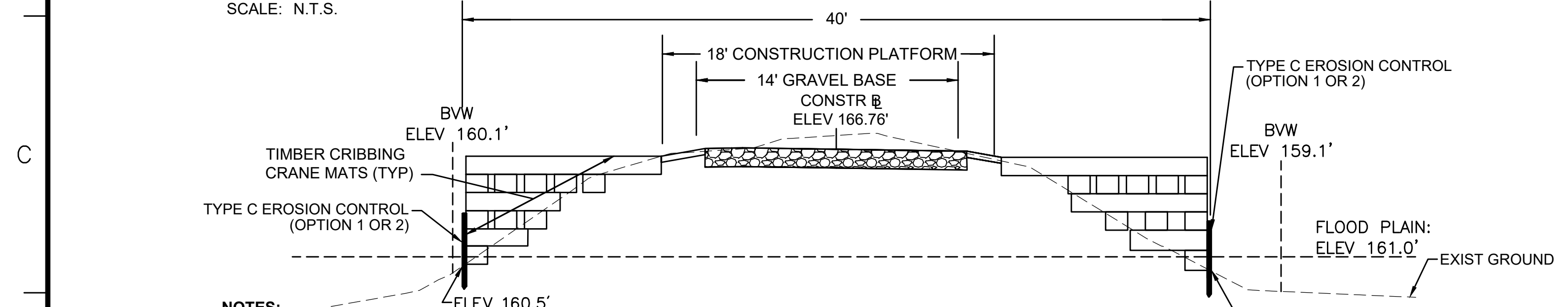




- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
  2. AREA DISTURBED BY CRANE MATS OUTSIDE 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.
  4. THE CROSS-SECTION FOR STATION 148+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

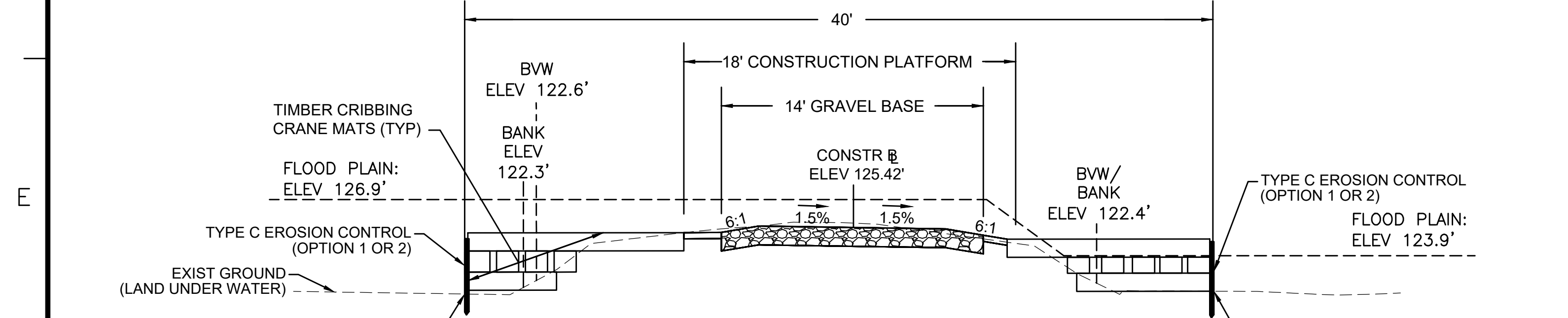
**TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 130**

SCALE: N.T.S.



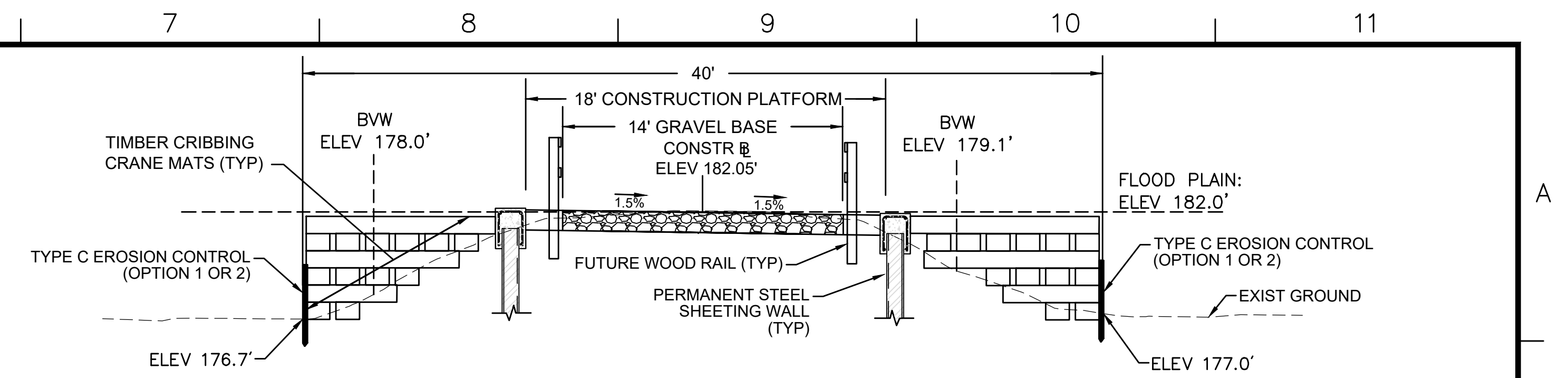
- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
  2. AREA DISTURBED BY CRANE MATS OUTSIDE 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.
  4. THE CROSS-SECTION FOR STATION 401+50 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 128**



- NOTES:**
1. 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.
  4. THE CROSS-SECTION FOR STATION 726+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

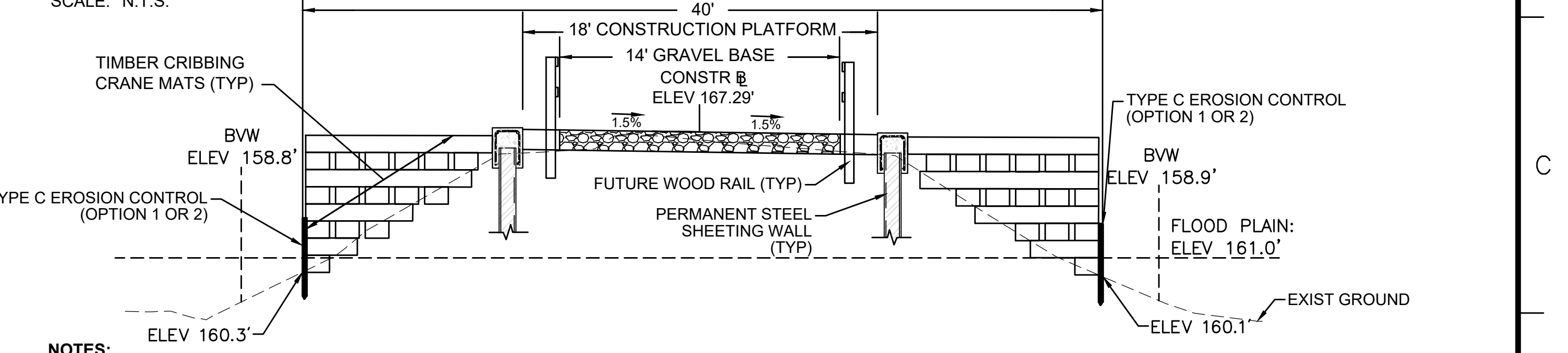
**TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 127**



- NOTES:**
1. 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.
  4. THE CROSS-SECTION FOR STATION 148+25 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 130**

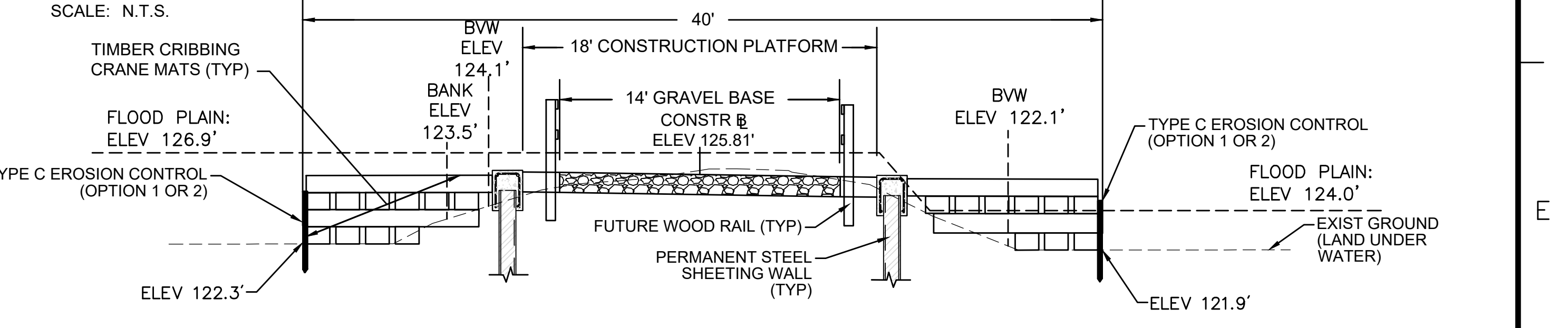
SCALE: N.T.S.



- NOTES:**
1. 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.
  4. THE CROSS-SECTION FOR STATION 401+00 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 128**

SCALE: N.T.S.



- NOTES:**
1. 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.
  4. THE CROSS-SECTION FOR STATION 724+90 IS USED AS A REPRESENTATIVE AREA FOR THE PURPOSES OF THIS DETAIL.

**TYPICAL CRANE MAT CROSS-SECTION WITH STEEL SHEETING - BRIDGE 127**

SCALE: N.T.S.

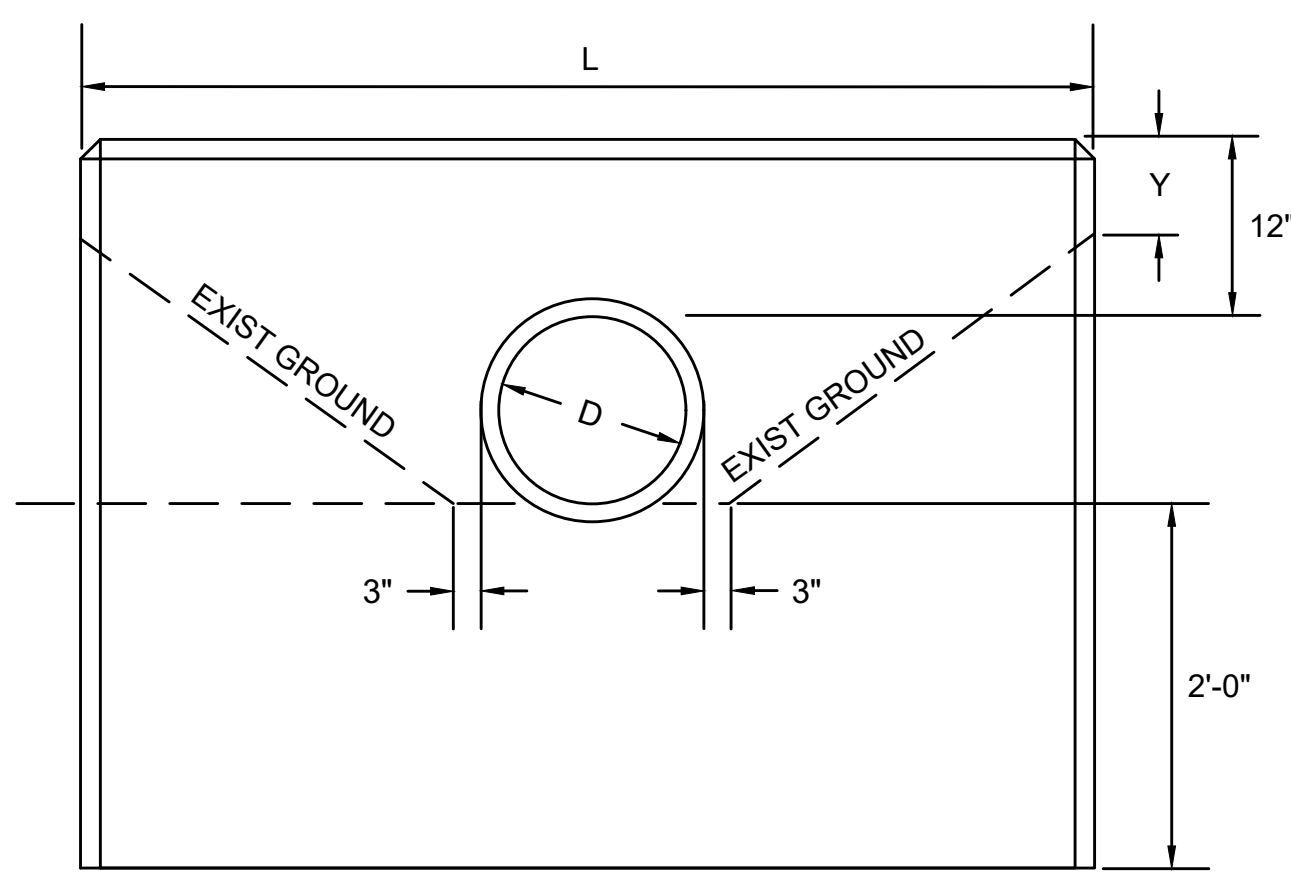
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 155 OF 347				
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DRAWING NO.	REV.			



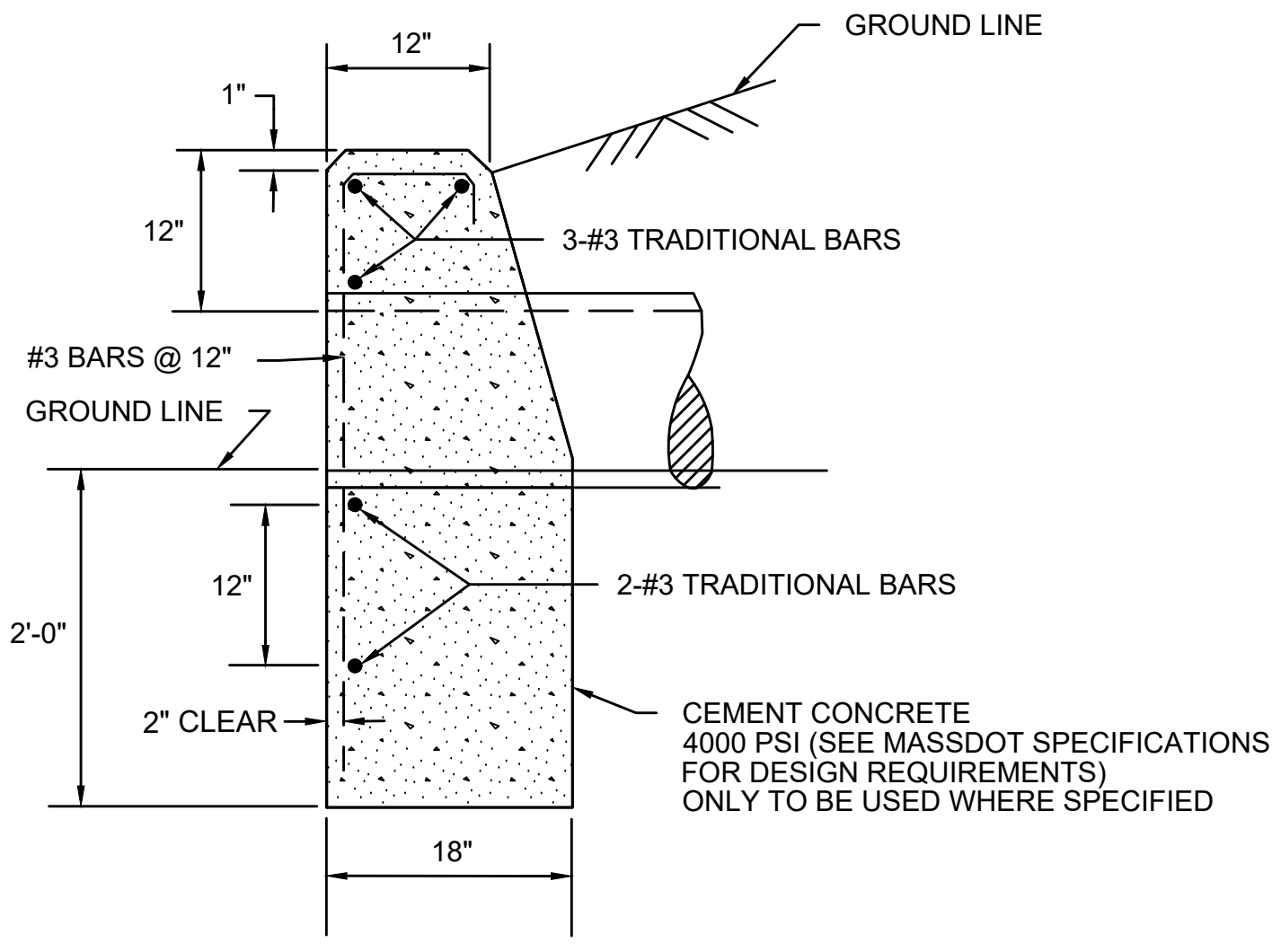
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FRONT ELEVATION

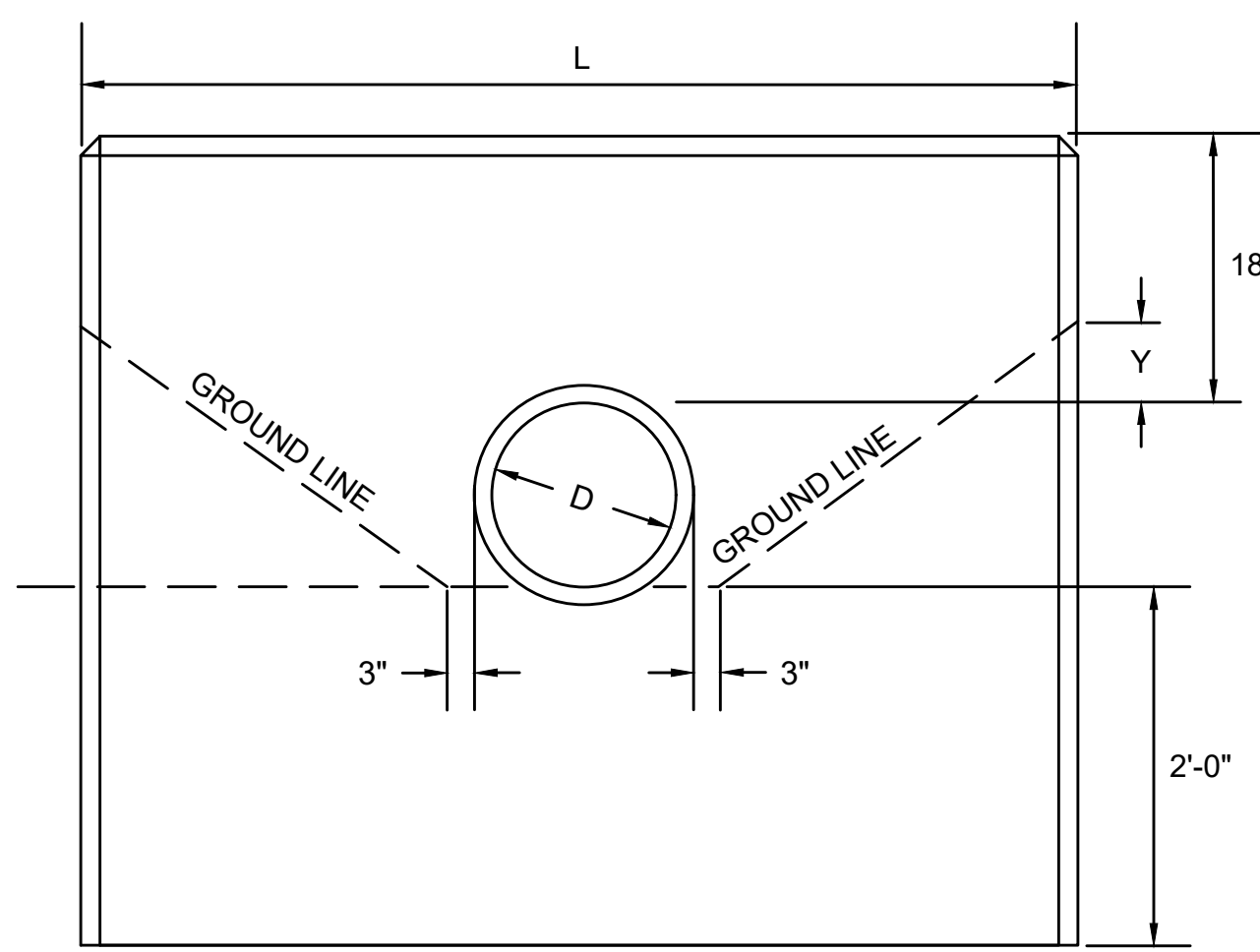


END ELEVATION

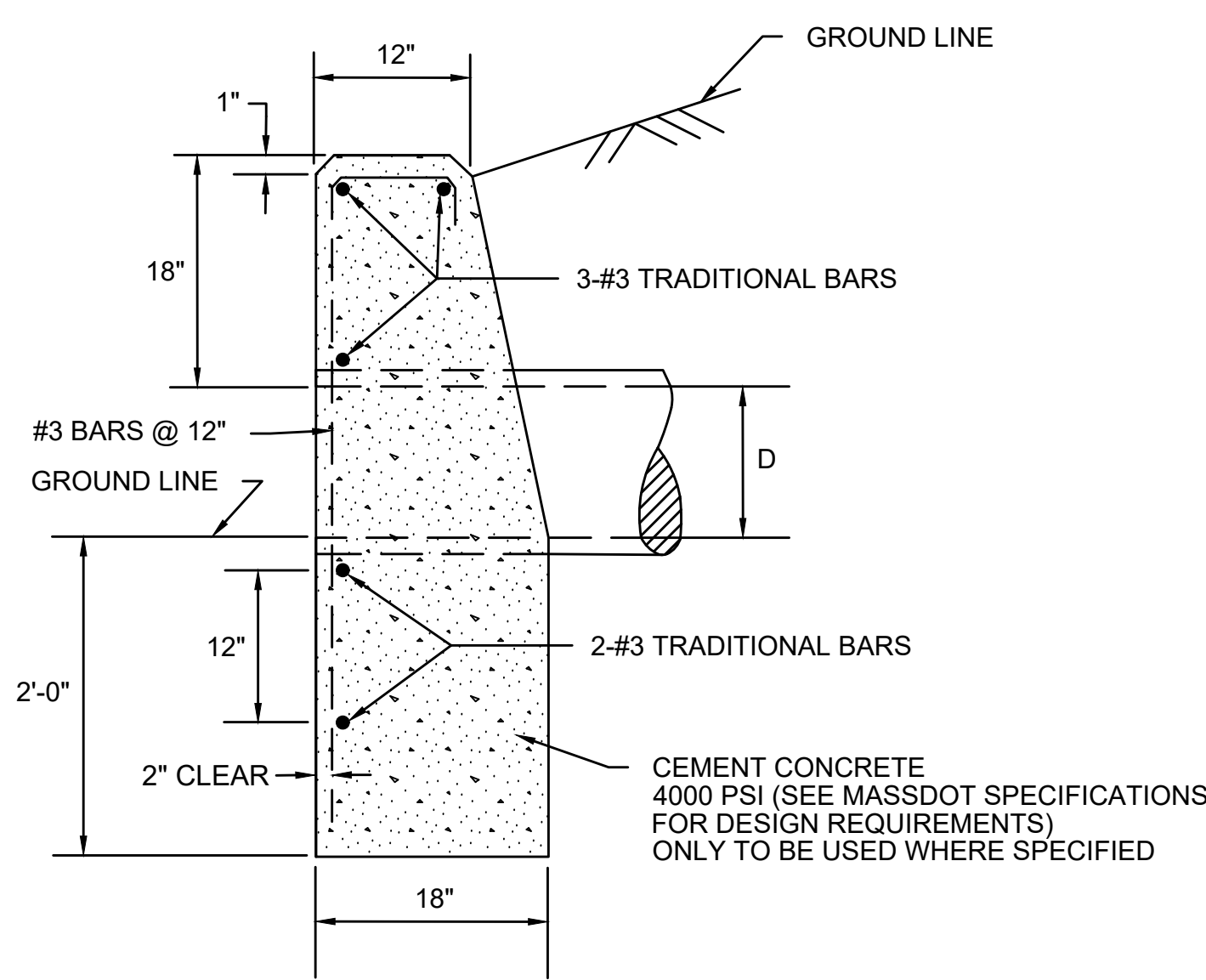
- NOTES:
- THIS DETAIL SHALL BE APPLIED TO THE PROPOSED 18" DRAINAGE PIPE AT STATION 738+77.
  - SEE MASSDOT CONST STD 206.4.1 FOR THE VALUES OF L AND Y FOR VARIOUS PIPE DIAMETERS.

**HEADWALL WITH 12" REVEAL ABOVE PIPE**

SCALE: N.T.S.



FRONT ELEVATION



END ELEVATION

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

**HEADWALL WITH 18" REVEAL ABOVE PIPE**

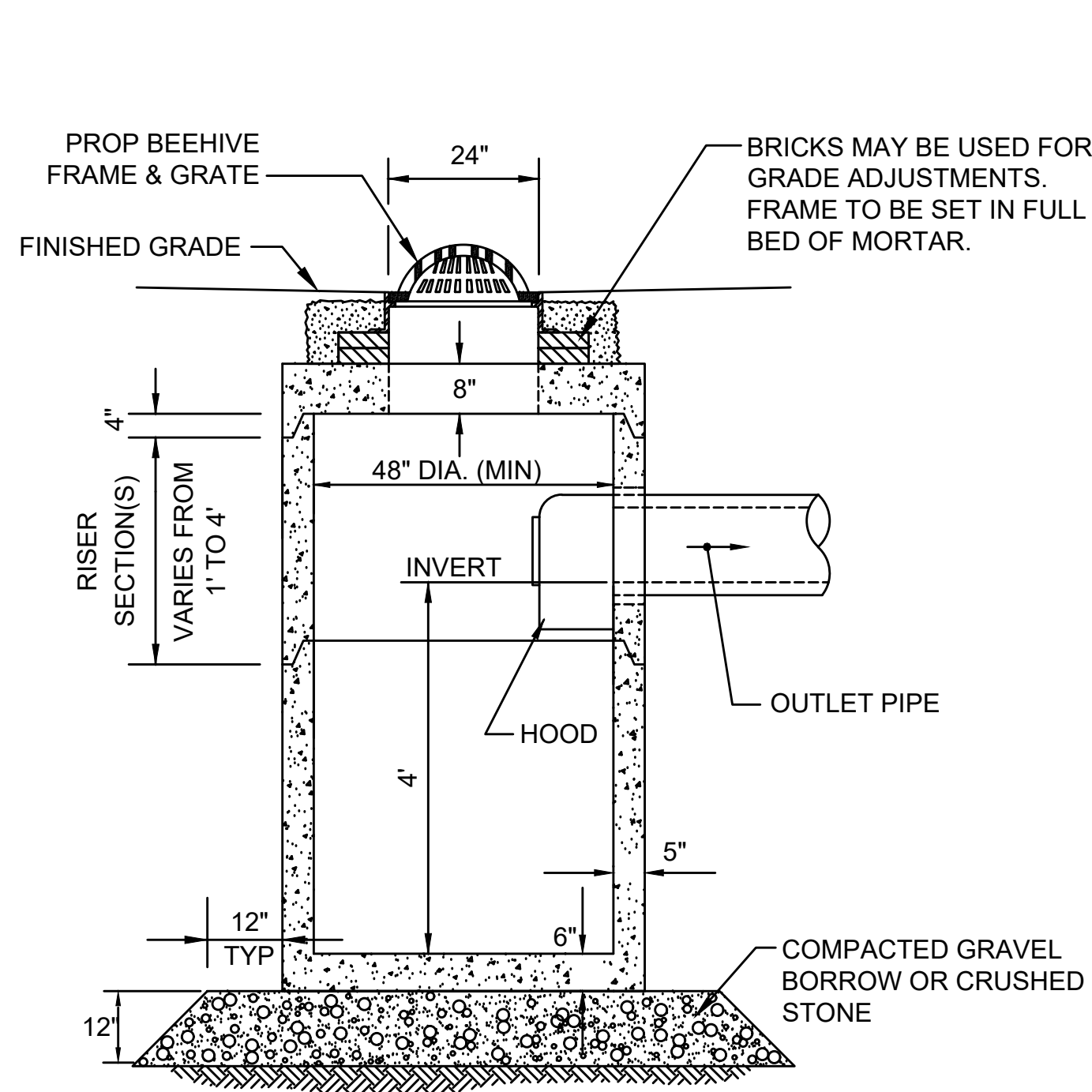
SCALE: N.T.S.

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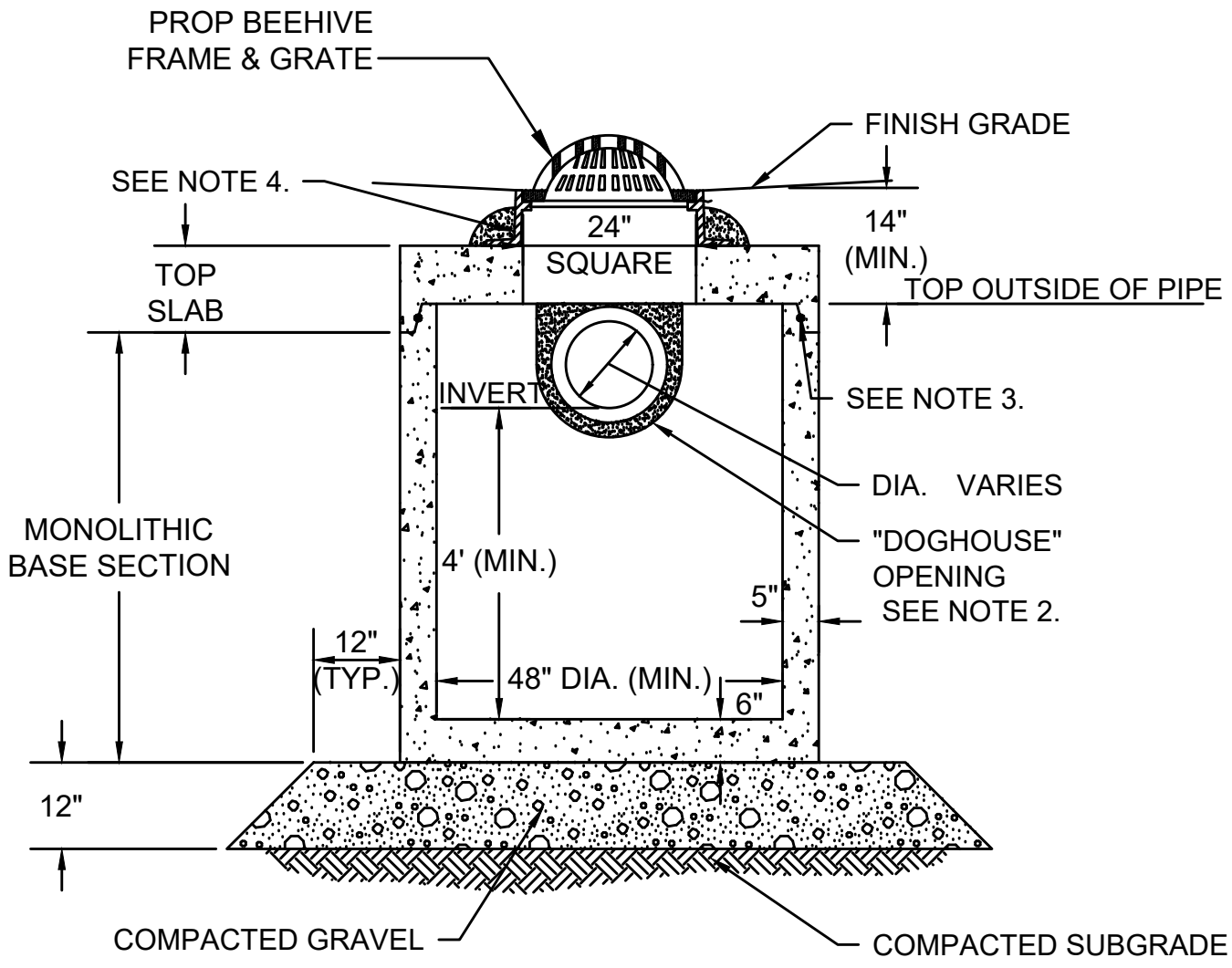
G



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)**

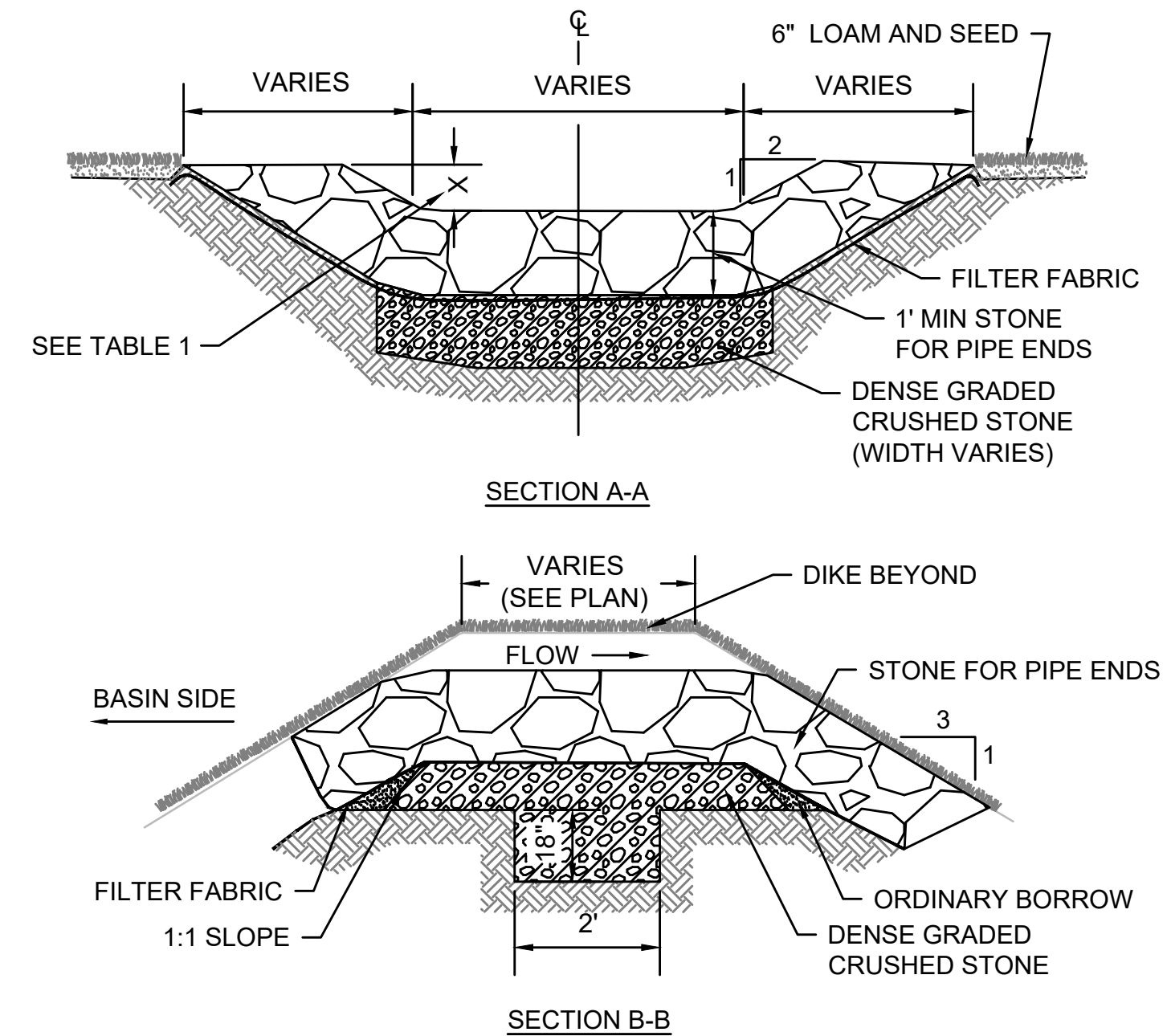
SCALE: N.T.S.



- NOTES:
- ALL SECTIONS SHALL BE DESIGNED FOR HS-10 LOADING.
  - 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).
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
  - CATCH BASIN FRAME (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
  - ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

**CATCH BASIN WITH SHALLOW COVER (SHALLOW CB)**

SCALE: N.T.S.

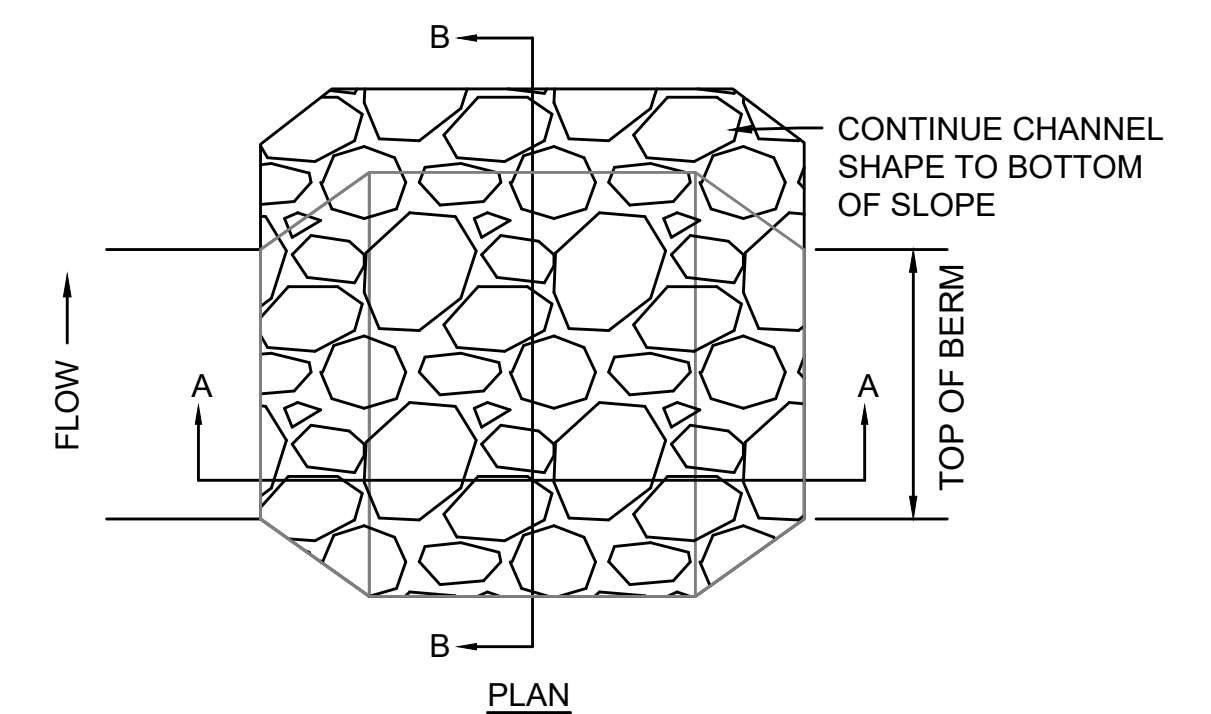


**OVERFLOW STONE SWALE**

SCALE: N.T.S.

TABLE 1

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



N.O.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS CONSTRUCTION DETAILS				
PLAN 156 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



1 2 3 4 5 6 7 8 9 10 11

A

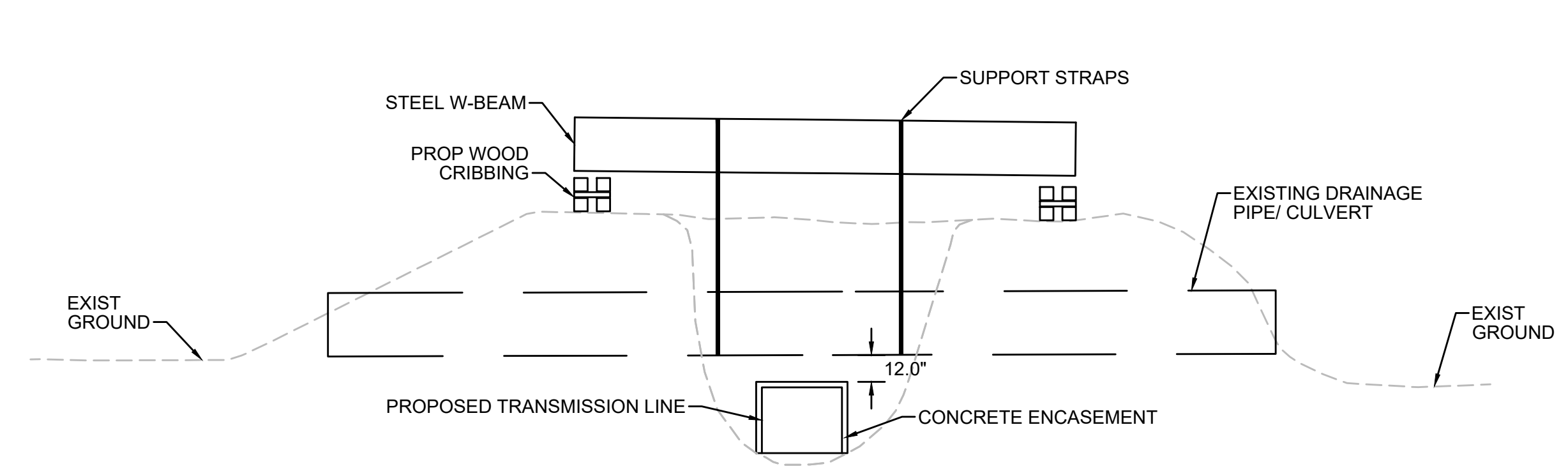
B

C

A

B

C

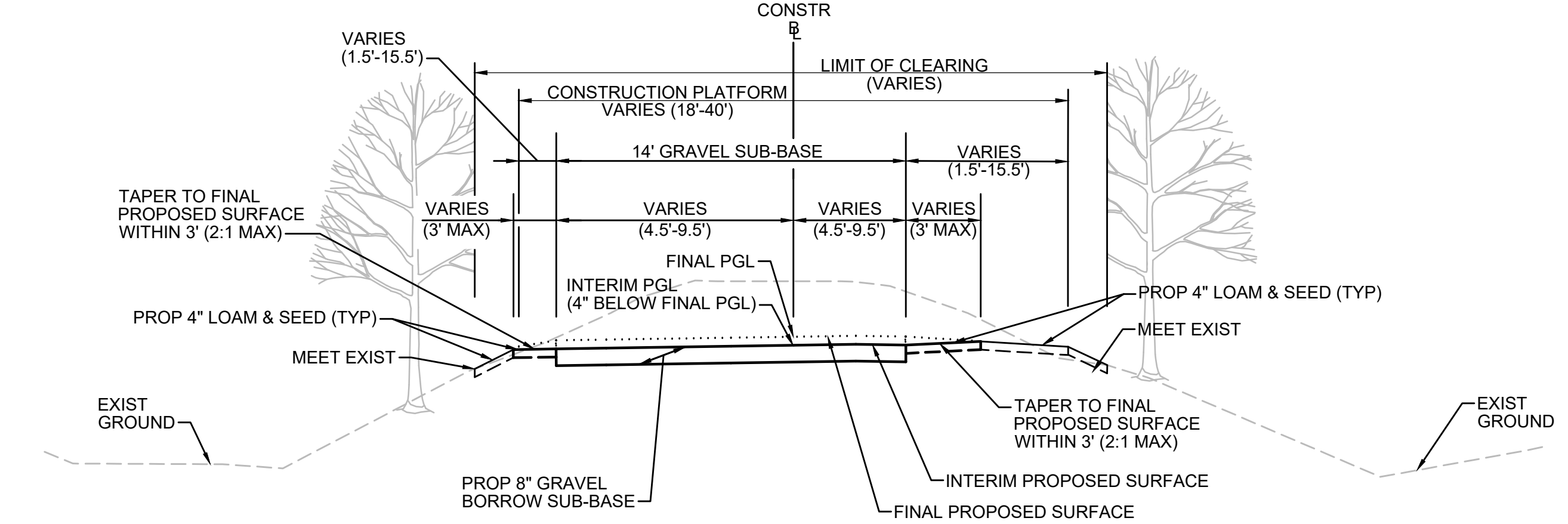


**NOTES:**

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 W-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.

D

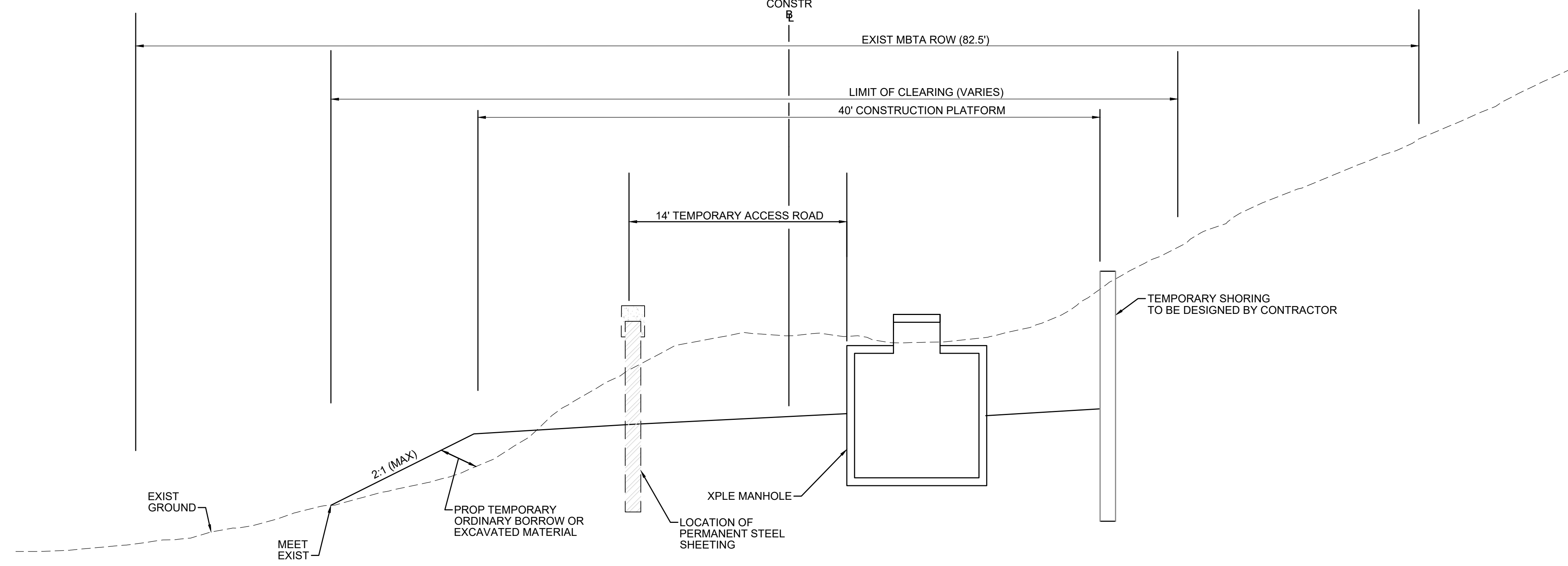
E

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E

F



**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.

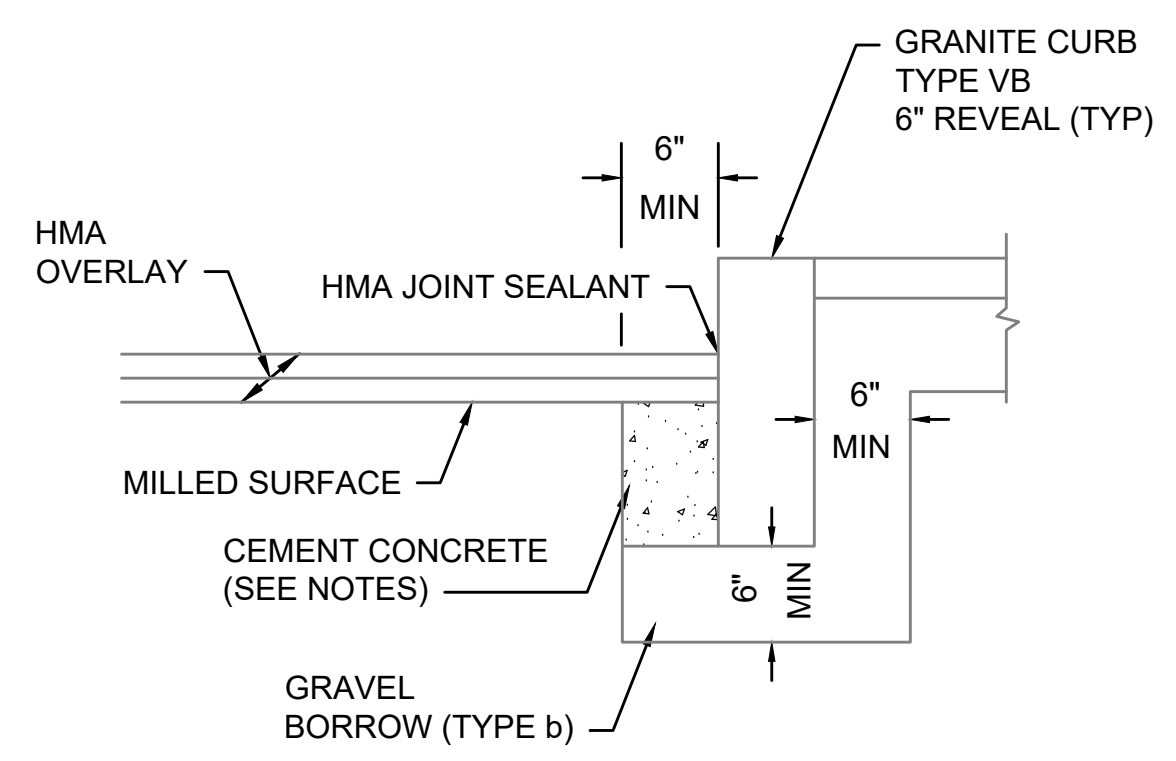
N.O.	DESCRIPTION	BY	DATE	APPR.
<b>REVISION</b>				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 157 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

G

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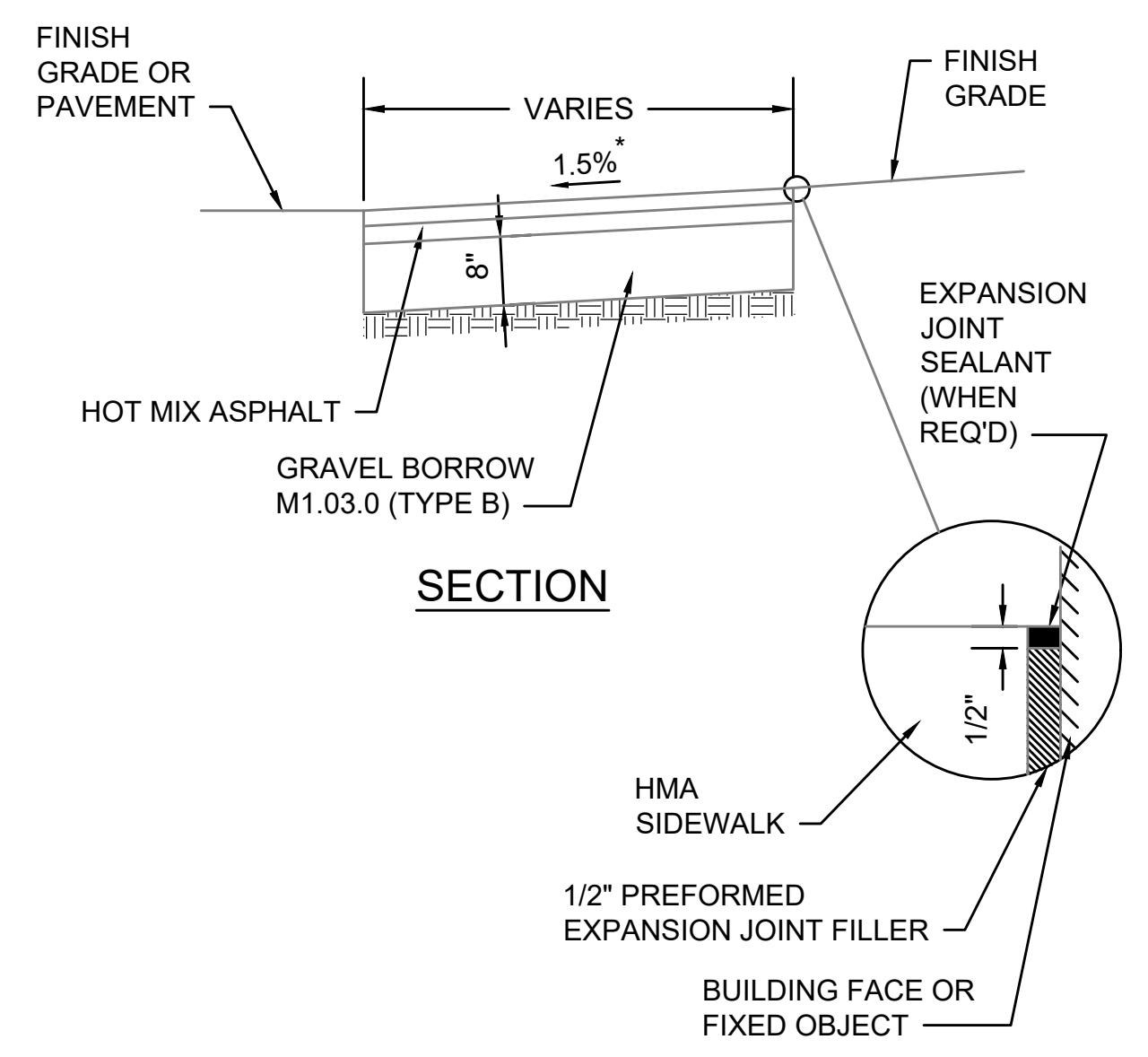




- NOTES:**
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
  2. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

**GRANITE CURB IN MILL & OVERLAY**

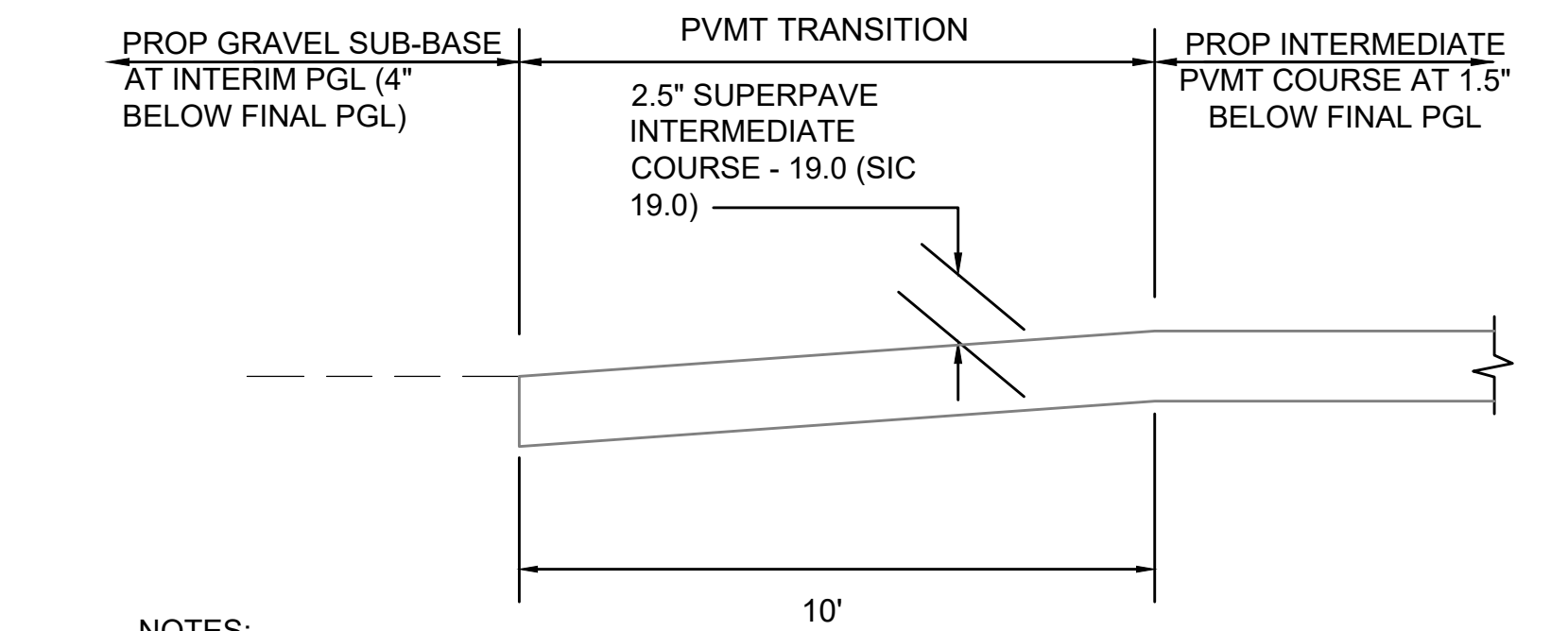
SCALE: N.T.S.



\* TOLERANCE FOR CONSTRUCTION ±0.5%

**HOT MIX ASPHALT SIDEWALK**

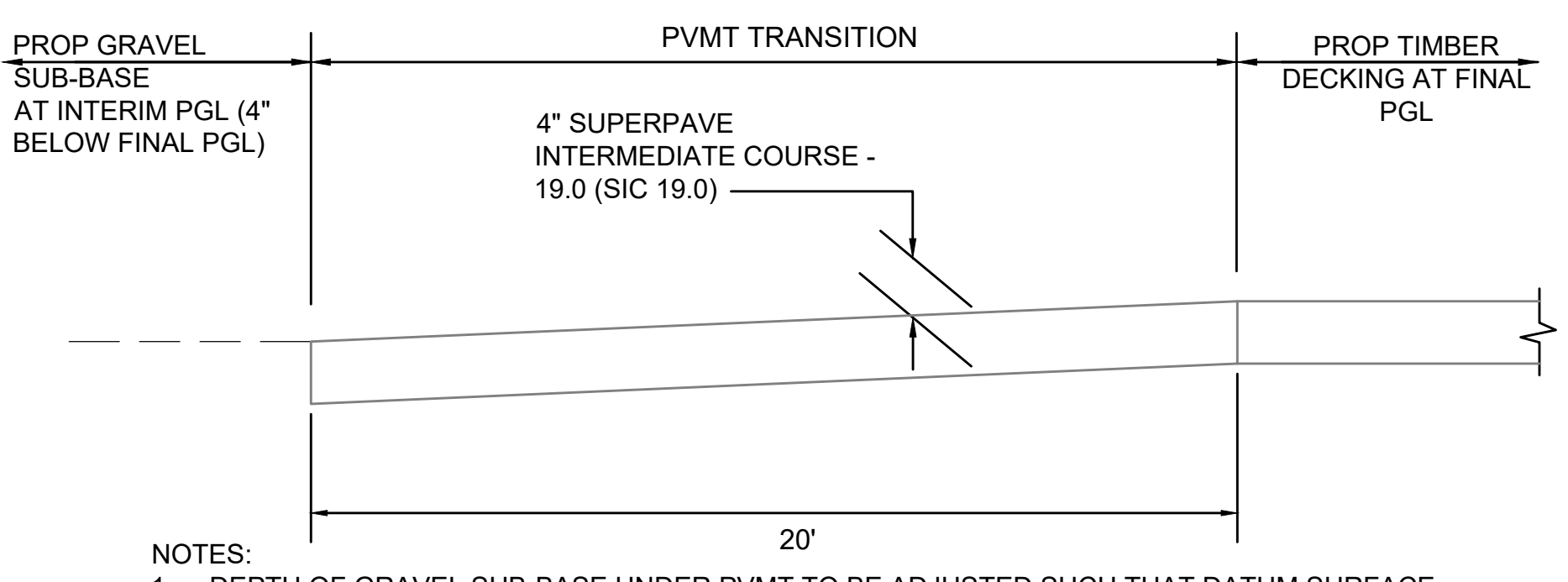
SCALE: N.T.S. DWG: WALK-01 DATE: MARCH 2013



- 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**

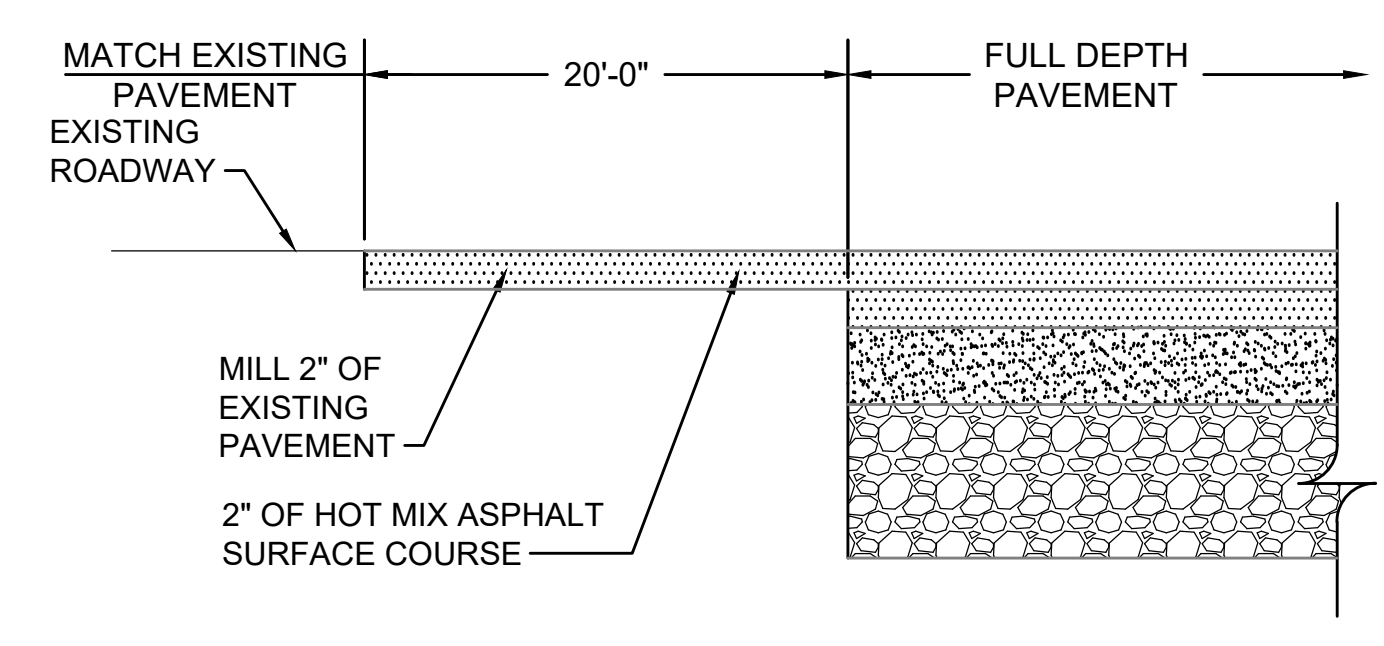
SCALE: N.T.S.



- 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**

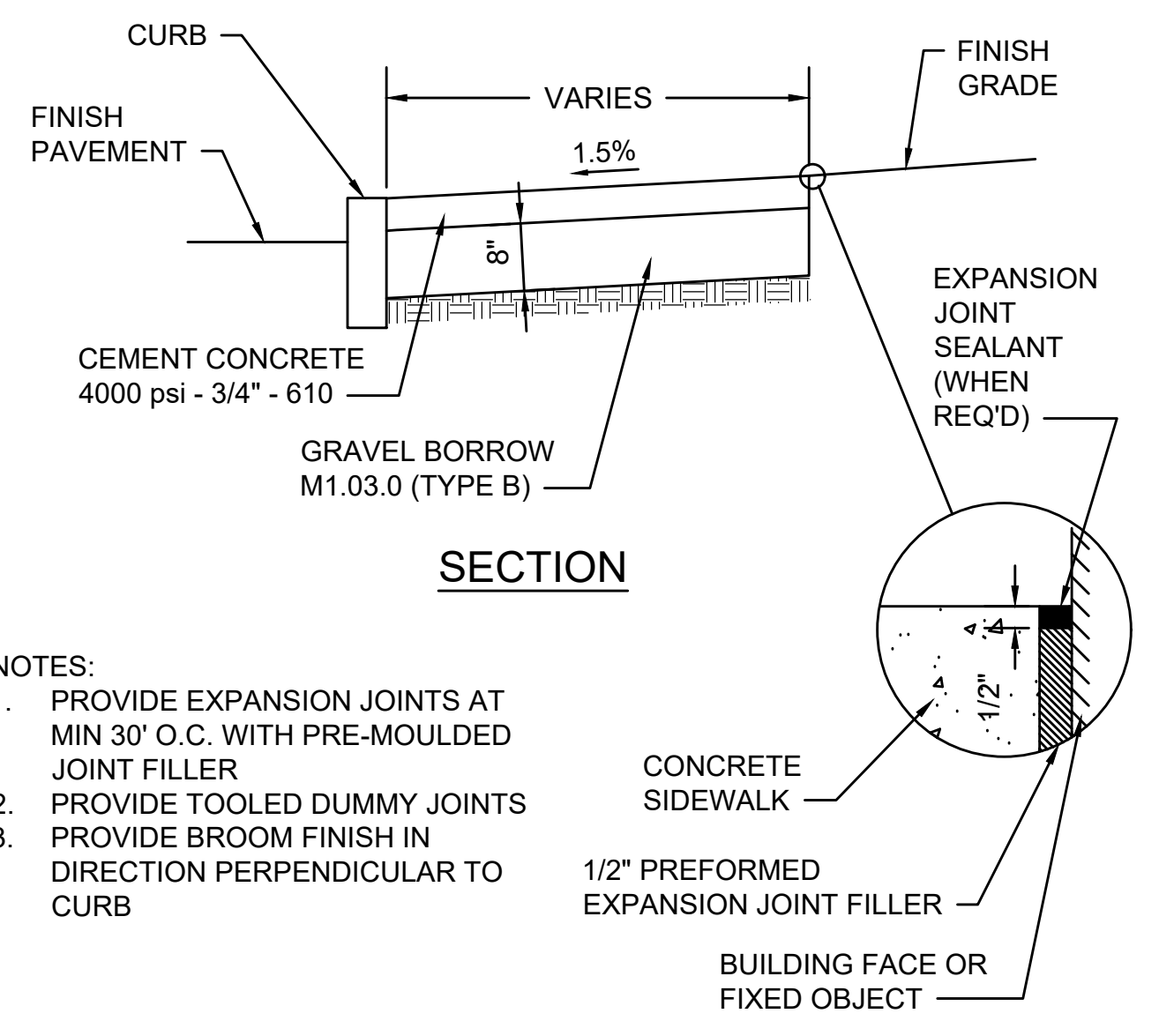
SCALE: N.T.S.



LONGITUDINAL SECTION

**FULL DEPTH PAVEMENT TRANSITION**

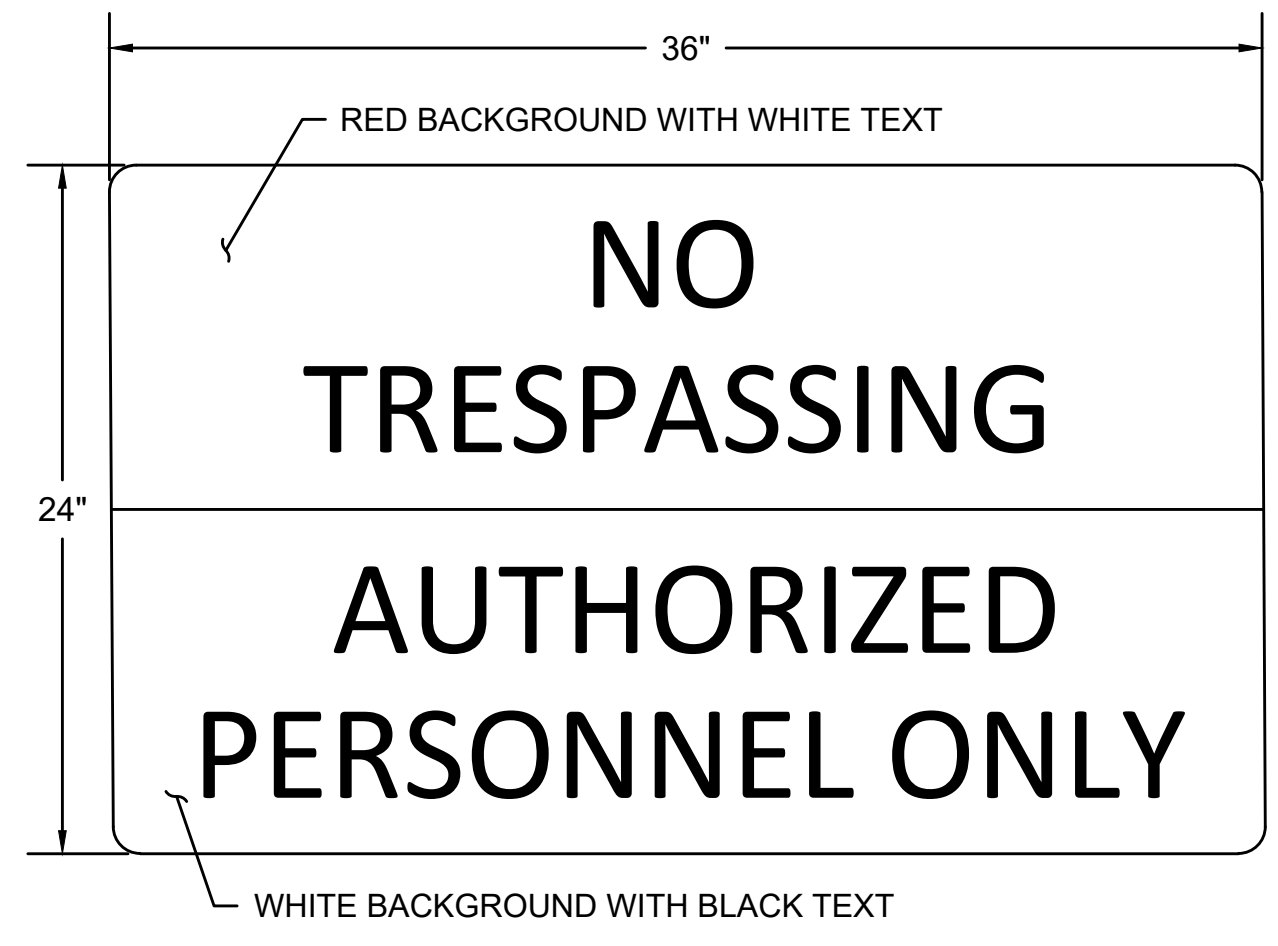
SCALE: N.T.S.



- 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

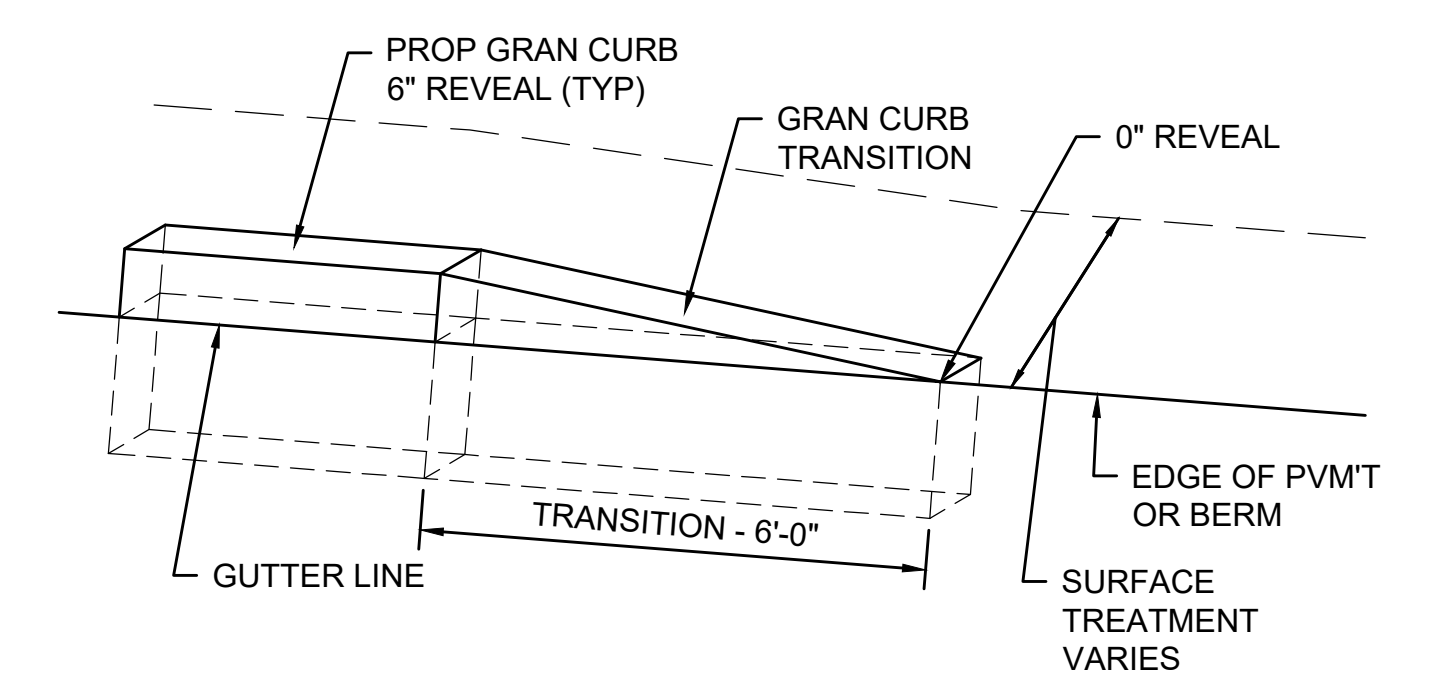
**CEMENT CONCRETE SIDEWALK**

SCALE: N.T.S.



- NO BORDER
- MATERIAL - FLAT SHEET ALUMINUM 0.08" INCHES THICK
- SIGN SHALL BE MOUNTED ON P5 POST AT ALL WORK ZONE ACCESS POINTS AND ON CONSTRUCTION FENCE FACING CONSTRUCTION PLATFORM AS NOTED ON THE PLANS.

**NO TRESPASSING SIGN**



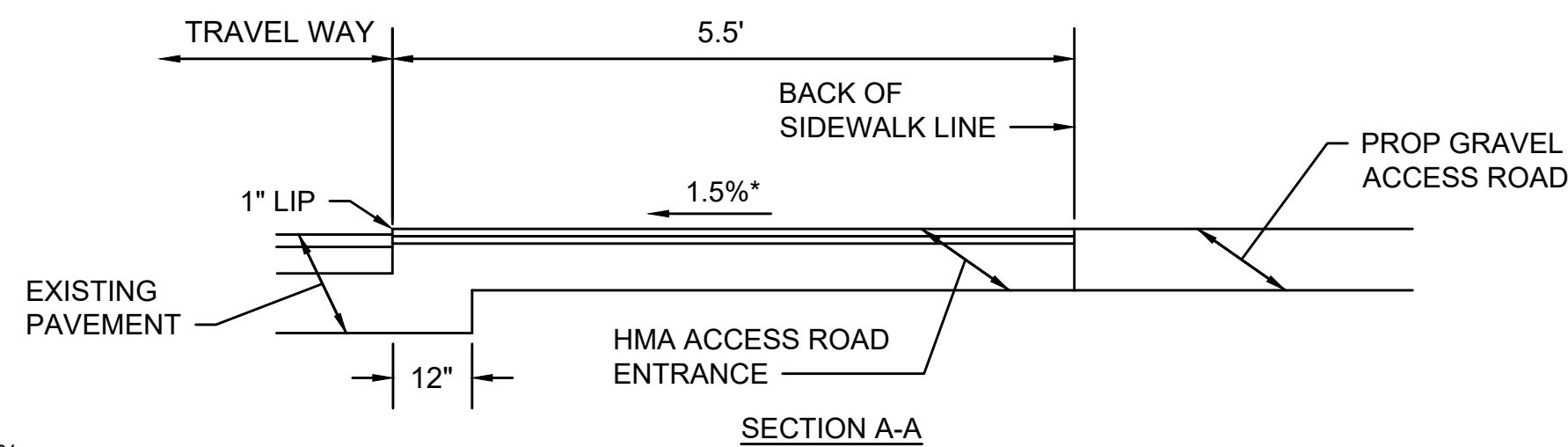
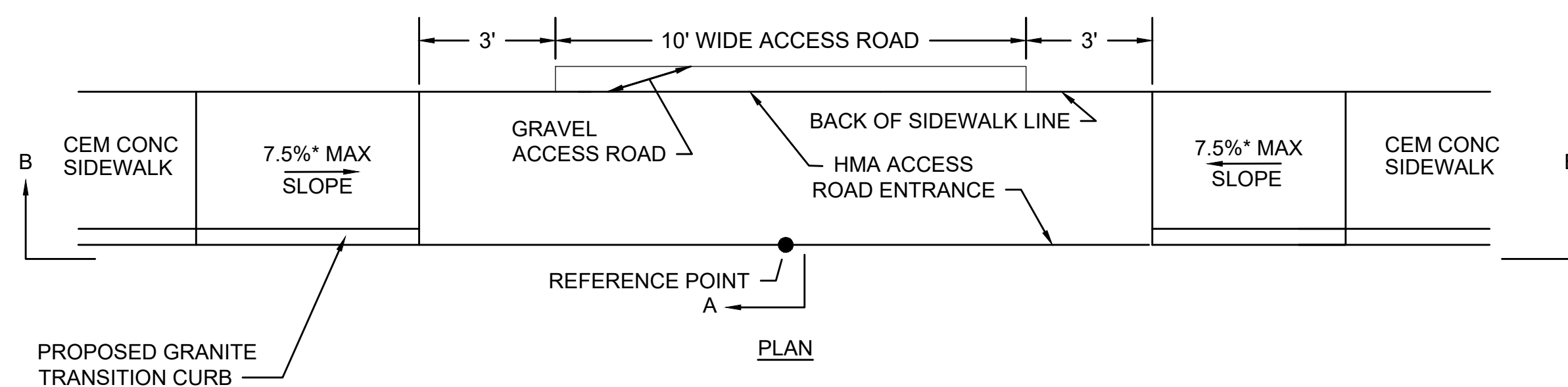
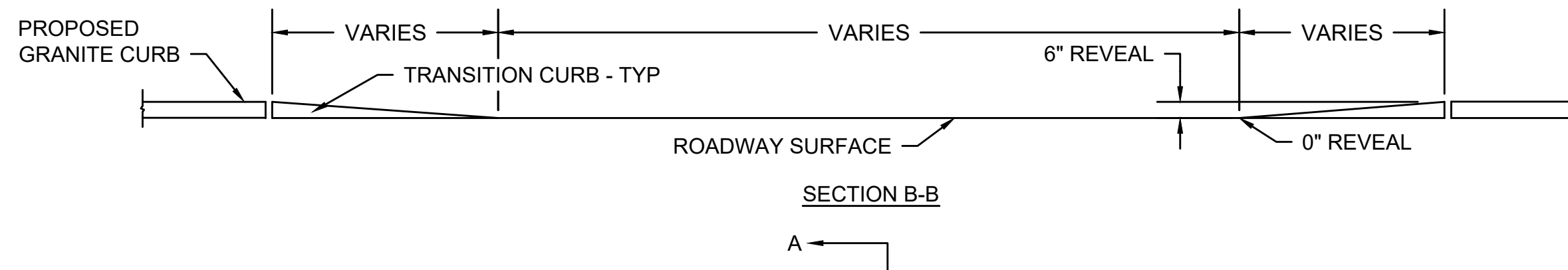
**GRANITE CURB TRANSITION PIECE**

SCALE: N.T.S.

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 158 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



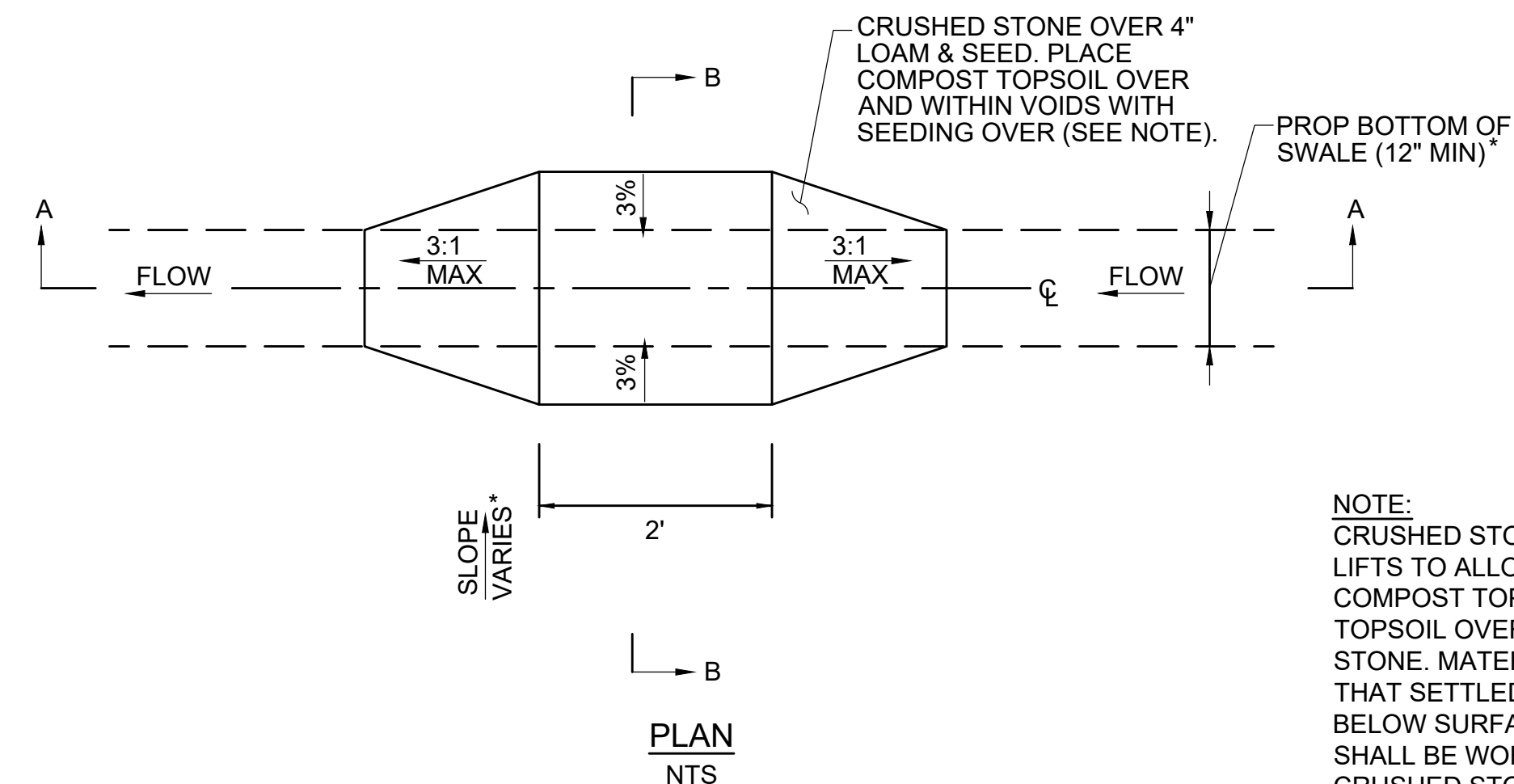
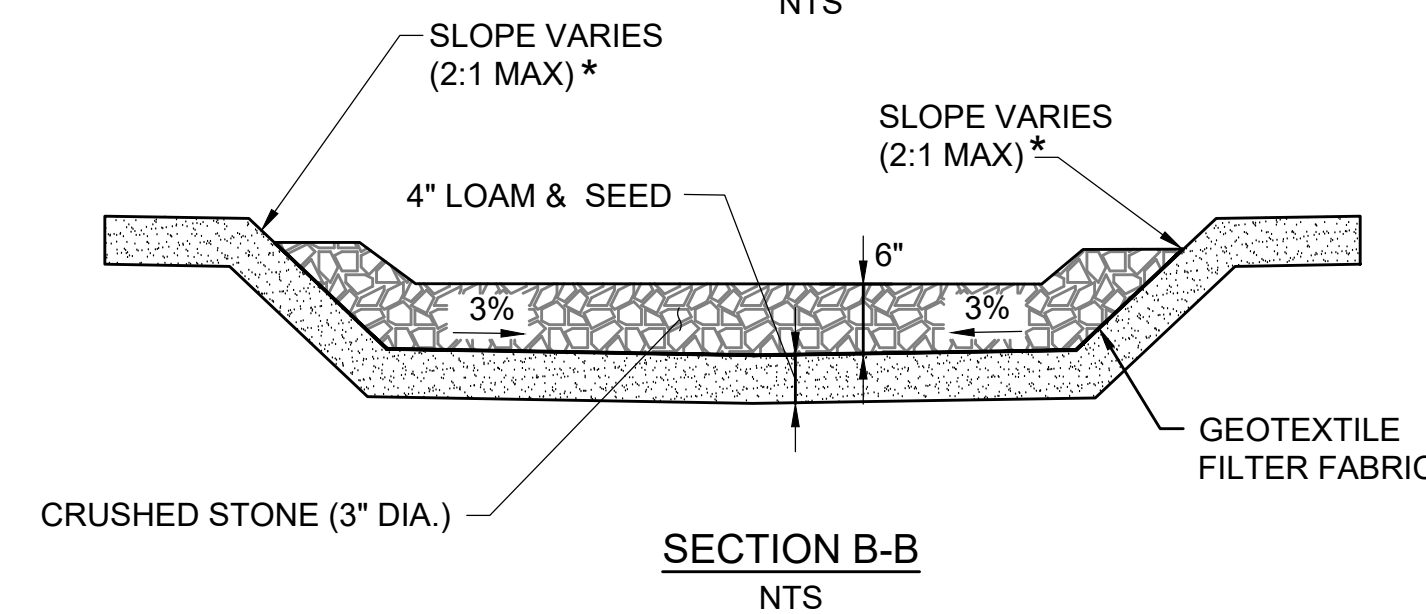
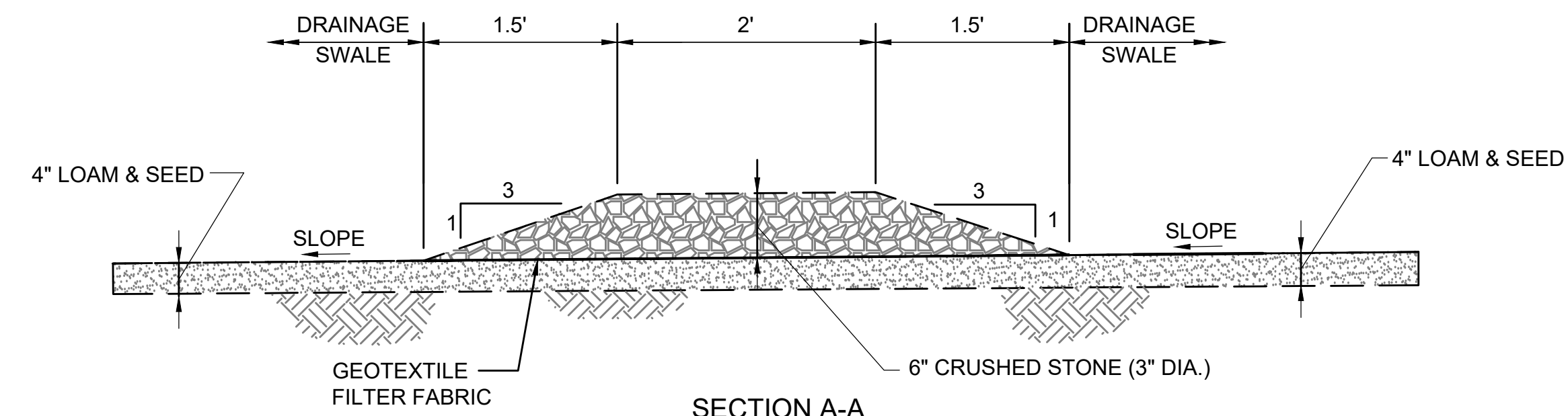
ACCESS ROAD CROSSING DATA									
NO.	LOCATION (REF POINT)	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE		RIGHT SIDE		OPENING ELEVATION	COMMENTS
				REVEAL	TRANS	REVEAL	TRANS		
BOSTON POST ROAD (ROUTE 20) STATE HIGHWAY LAYOUT									
1	182+61.6, 9.6' LT	5.2%	5'-6"	6"	9'-0"	6"	7'-8"	134.31'	



\*TOLERANCE FOR CONSTRUCTION ±0.5%

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

SCALE: N.T.S.

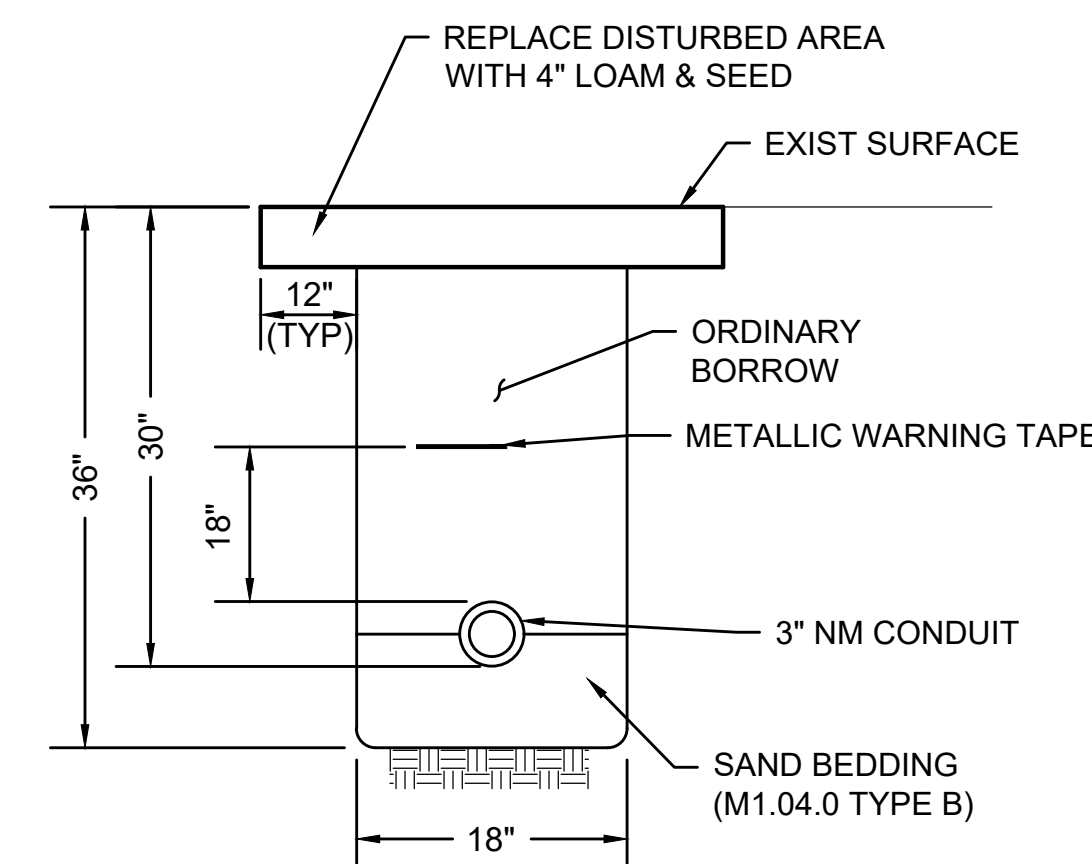
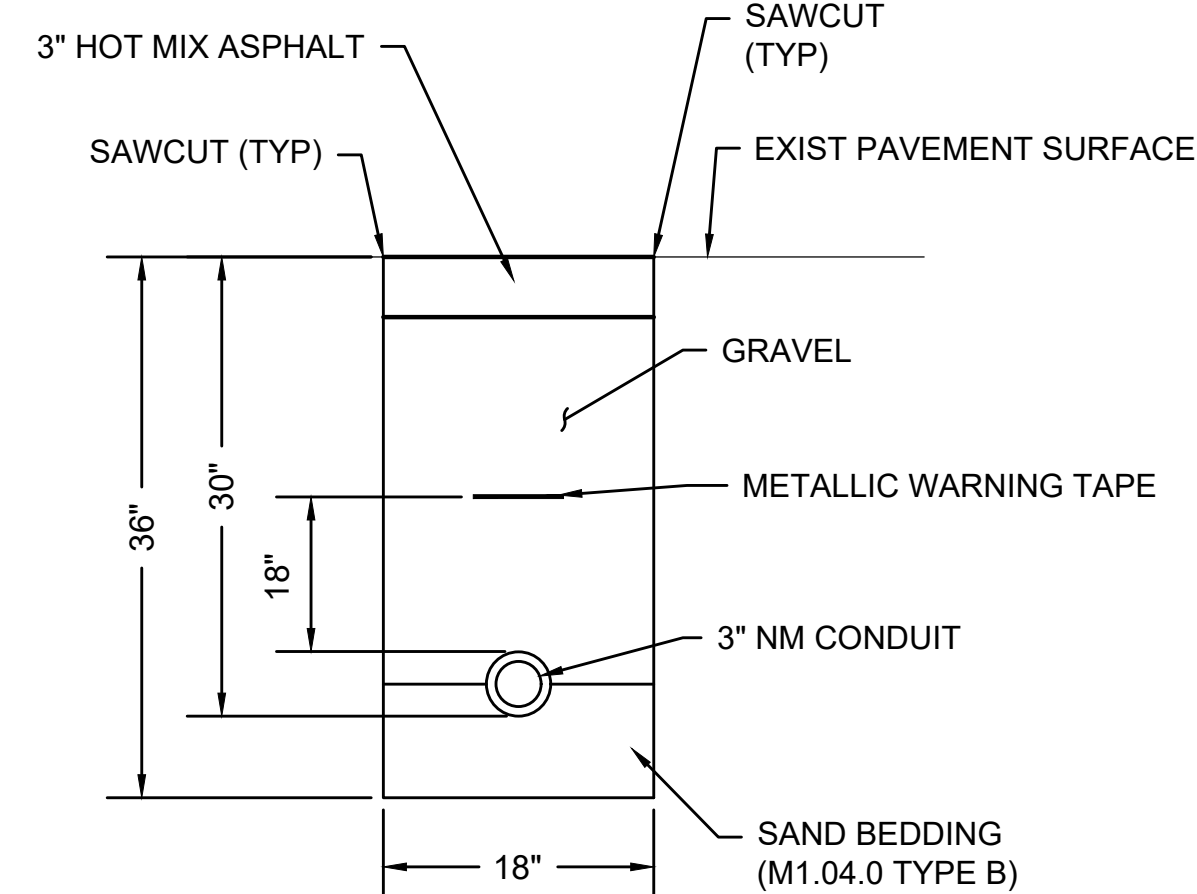
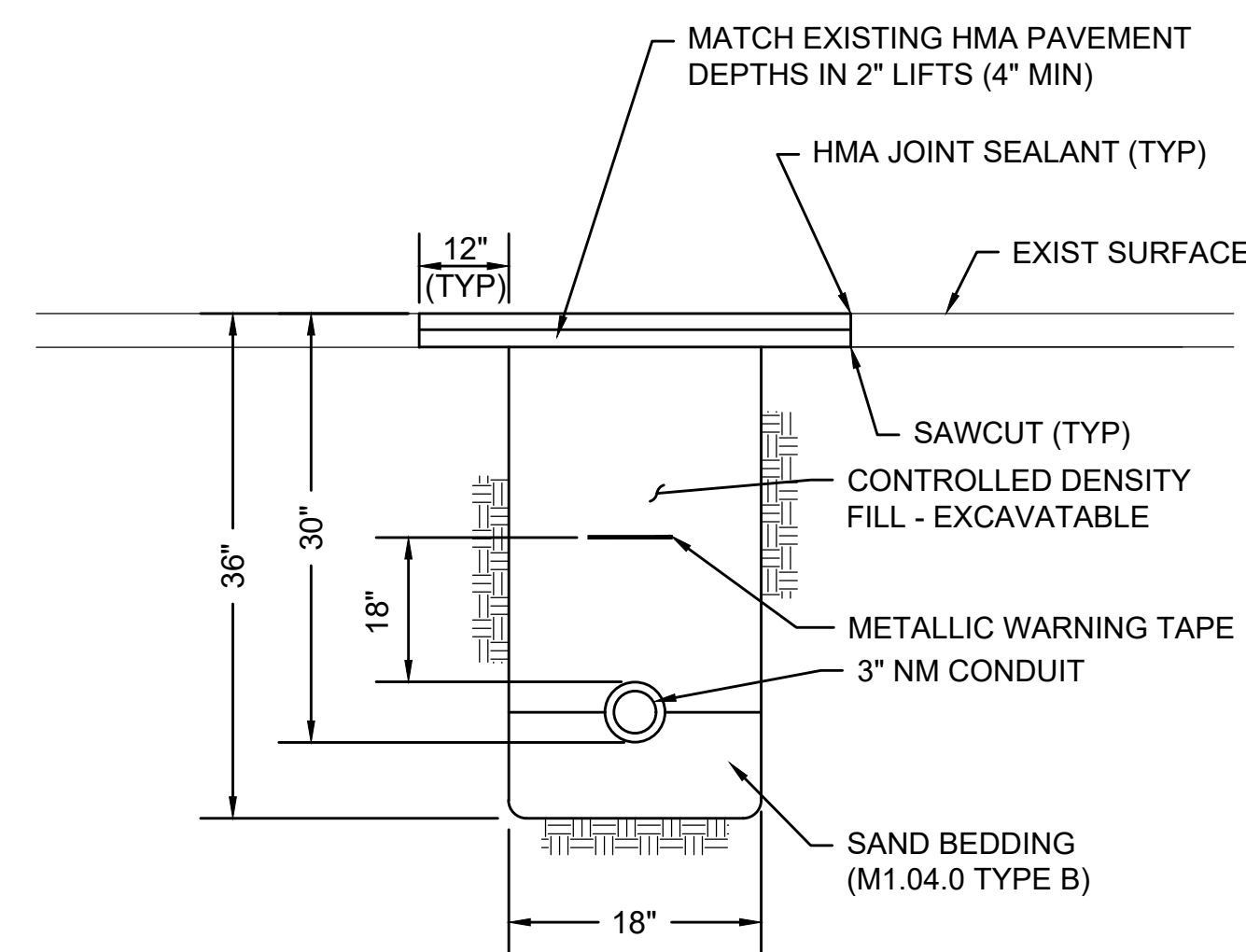


NOTE:  
CRUSHED STONE TO BE PLACED IN TWO LIFTS TO ALLOW FOR THE APPLICATION OF COMPOST TOPSOIL. APPLY COMPOST TOPSOIL OVER AND WITHIN THE CRUSHED STONE. MATERIAL SHOULD BE PLACED SUCH THAT SETTLED MATERIAL IS AT OR SLIGHTLY BELOW SURFACE PLANE OF STONE AND SHALL BE WORKED INTO THE VOIDS OF THE CRUSHED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

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

**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 159 OF 347					
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.

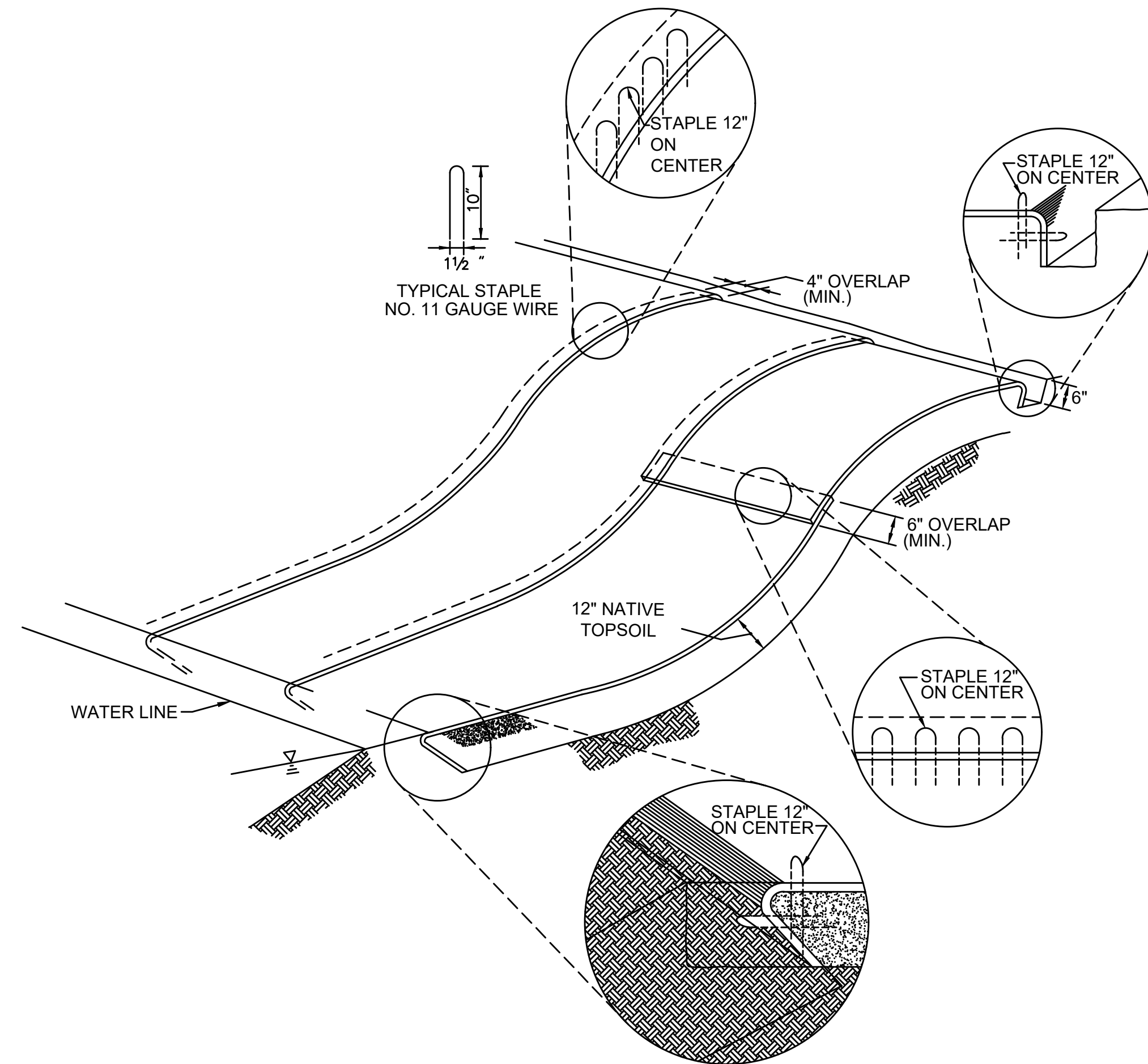


**NOTES FOR BIONET C700BN EROSION CONTROL BLANKET:**

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

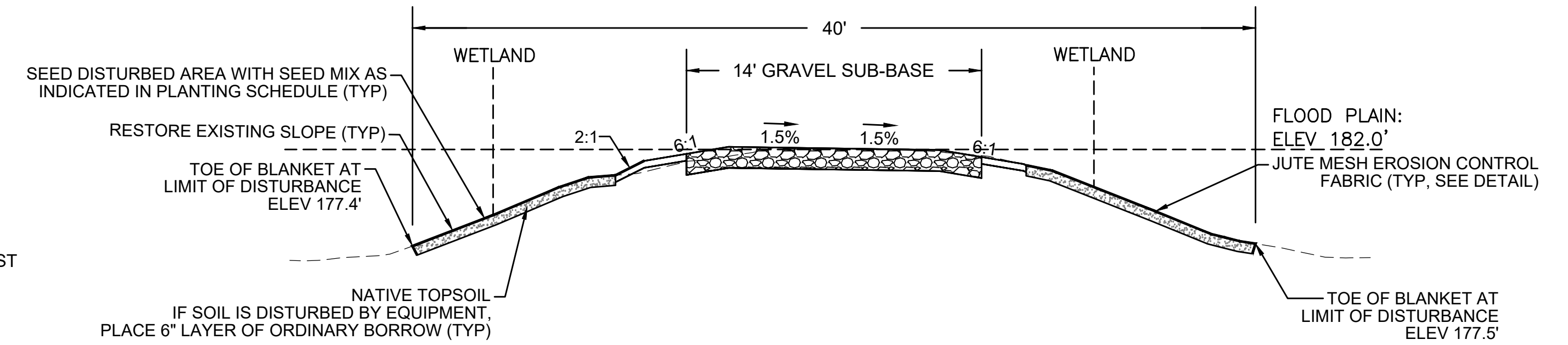
**NOTES FOR JUTE MESH EROSION CONTROL FABRIC:**

1. 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.
2. PREPARE SOIL BEFORE INSTALLING FABRIC, INCLUDING ANY NECESSARY APPLICATION OF LIME, AND SEED.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE FABRIC IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE FABRIC WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF FABRIC BACK OVER SEED AND COMPACTED SOIL. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
4. ROLL FABRIC FROM TOP OF SLOPE TO BOTTOM. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
5. INSTALL TREE, SHRUB, AND/OR PLUG PLANTINGS AT THE LOCATIONS INDICATED IN THE PLANTING SCHEDULE ON SHEET 161 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.
6. 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.
7. PLACE CONSECUTIVE FABRICS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE FABRIC.
8. FULL LENGTH EDGE OF FABRIC AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. ADJACENT FABRICS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (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.
10. FULL LENGTH EDGE OF FABRIC AT BOTTOM OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART. FABRIC SHALL HAVE A MINIMUM 6" RUNOUT LENGTH UNDER GEOWEB.
11. A MINIMUM OF 4 NOTCHED WOOD STAKES SHALL BE INSTALLED TO SECURE EACH FABRIC, ONE AT EACH CORNER.
12. THE TERMINAL END OF THE FABRIC MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



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

SCALE: N.T.S.

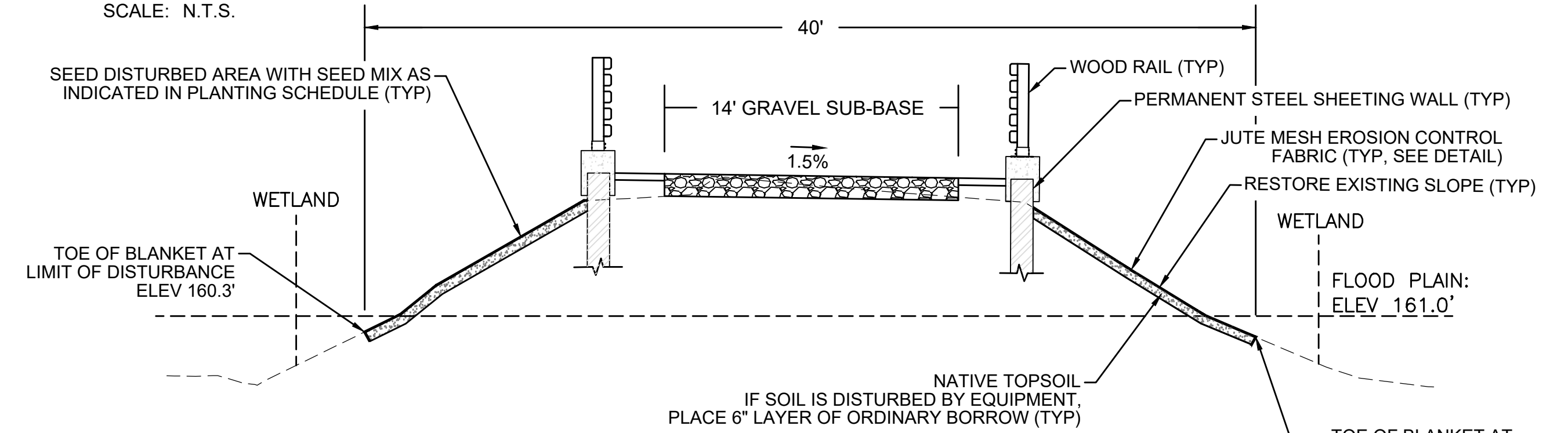


**NOTES:**

1. THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 147+75 TO 148+50  
STA 149+00 TO 150+25
2. 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.

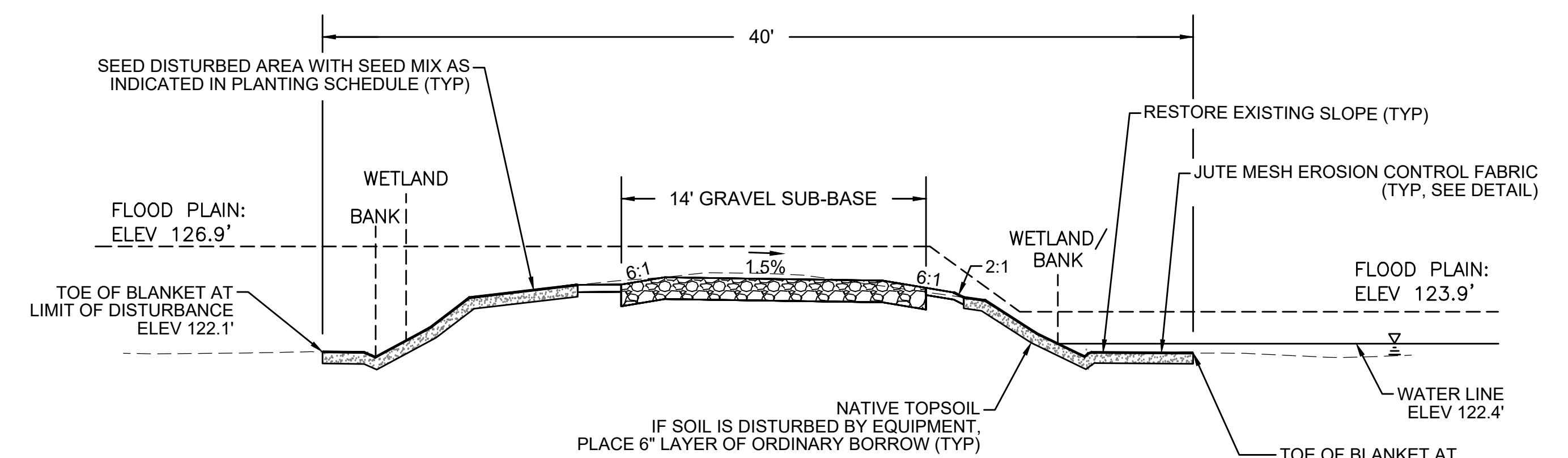


**NOTES:**

1. THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 399+10 TO 400+20  
STA 400+75 TO 401+75
2. 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:**

1. THIS SECTION APPLIES ONLY TO THE FOLLOWING STATION RANGES:  
STA 724+40 TO 725+00  
STA 725+70 TO 726+40
2. 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 160 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



**PLANTING SCHEDULE A: GENERAL CONSTRUCTION CORRIDOR**

HERBACEOUS SEED MIX		
SPECIES	WETLAND STATUS	%
VIRGINIA WILD RYE ( <i>ELYMUS VIRGINICUS</i> )	FACW	25.00
CANADA WILD RYE ( <i>ELYMUS CANADENSIS</i> )	FACU	25.00
LITTLE BLUESTEM ( <i>SCHIZACHYRIUM SCOPARIUM</i> )	FACU	25.00
DEER-TONGUE GRASS ( <i>DICHANTHELIUM CLANDESTINUM</i> )	FACW	8.00
UPLAND BENTGRASS ( <i>AGROSTIS PERENNANS</i> )	FACU	8.00
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>EUTROCHIUM MACULATUM</i> )	OBL	0.30
WHITE AVENS ( <i>GEUM CANADENSE</i> )	FAC	0.30
RIGID GOLDENROD ( <i>OLIGONEURON RIGIDUM</i> )	UPL	0.30

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

NOTE: HERBACEOUS AND SHRUB SEED MIXES TO BE APPLIED AT AN APPLICATION RATE RECOMMENDED BY THE SUPPLIER

SOD SEED MIX	
SPECIES	%
KENTUCKY BLUEGRASS ( <i>POA PRATENSIS</i> )	60-75
PERENNIAL RYEGRASS ( <i>LOLIUM PERENNE</i> )	10-20
TALL FESCUE ( <i>SCHEDONORUS ARUNDINACEUS</i> )	15

NOTE: SOD SEED MIX TO BE USED INSTEAD OF HERBACEOUS SEED MIX AND SHRUB SEED MIX FOR AREA OF INCREASED INFILTRATION P-10.13A (STA 753+50 TO STA 756+50)

**PLANTING SCHEDULE B: SUPPLEMENTAL PLANTING AREAS**

SUPPLEMENTAL PLANTINGS																																			
SPECIES	WETLAND STATUS	SPACING	PLANT SIZE																																
				H1	H2	H3	H4 NORTH	H4 SOUTH	S1	S2	S3 NORTH	S3 SOUTH	S4	S5 NORTH	S5 SOUTH	S6 NORTH	S6 SOUTH	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	
SUMMERSWEET CLETHRA ( <i>CLETHRA ALNIFOLIA</i> )	FAC	48" O.C.	2' - 3'	58	26	30	12	9																											
ALTERNATE-LEAVED DOGWOOD ( <i>SWIDA ALTERNIFOLIA</i> )	FACU	48" O.C.	24" - 30"	58	26	30	12	9	10	4	16	23	5	12	20	12	10	18	5	16	10	14	15	8	6	4	15	18	30	100	11	27	3	11	
NORTHERN BAYBERRY ( <i>MYRICA PENNSYLVANICA</i> )	FAC	48" O.C.	2' - 3'	58	26	30	12	9	10	4	16	23	5	12	20	12	10	18	5	16	10	14	15	8	6	4	15	18	30	100	11	27	3	11	
AMERICAN HAZELNUT ( <i>CORYLUS AMERICANA</i> )	FACU	48" O.C.	2' - 3'	58	26	30	12	9	10	4	16	23		12	20	12	10	18	5	16	10	14	15	8	6	4	15	18	30	100	11	27	3	11	

**PLANTING NOTES:**

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT OR ENVIRONMENTAL MONITOR PRIOR TO INSTALLATION.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY 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.
- A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTINGS BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENVIRONMENTAL MONITOR.
- NO FERTILIZERS SHALL BE APPLIED.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL MONITOR OF ANY CONFLICT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE ENVIRONMENTAL MONITOR.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.

- AREAS DESIGNATED AS "LOAM & SEED" SHALL RECEIVE MINIMUM 4" OF LOAM AND SPECIFIED SEED MIX.
- THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE/CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

**PLANT MAINTENANCE NOTES:**

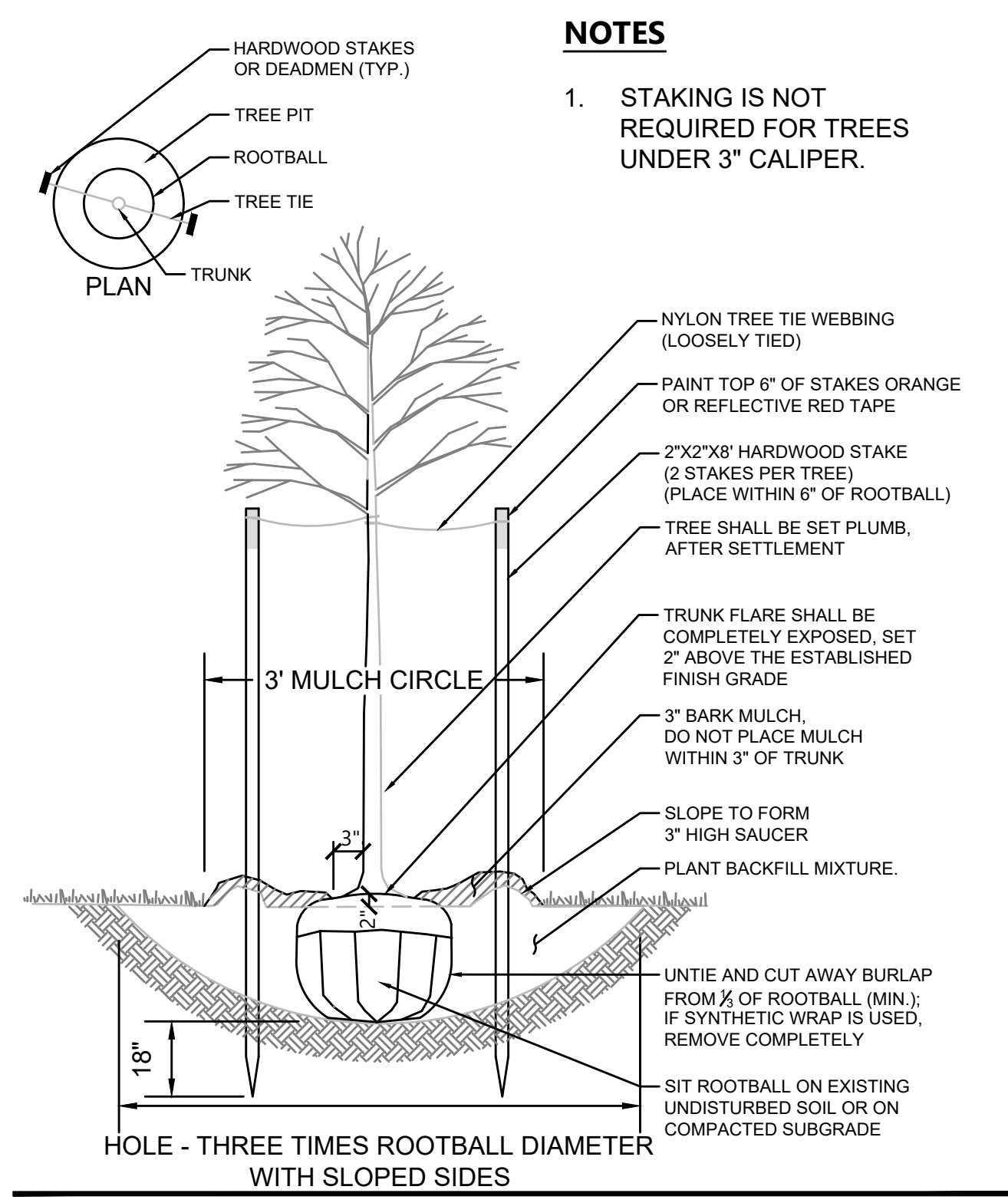
- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF SEEDED AREAS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR SEEDED AREAS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- 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.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.

NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION DETAILS					
PLAN 161 OF 347					
SCALE: unless noted NTS	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.
	JAN 2021	MS	SK	MES	REV.



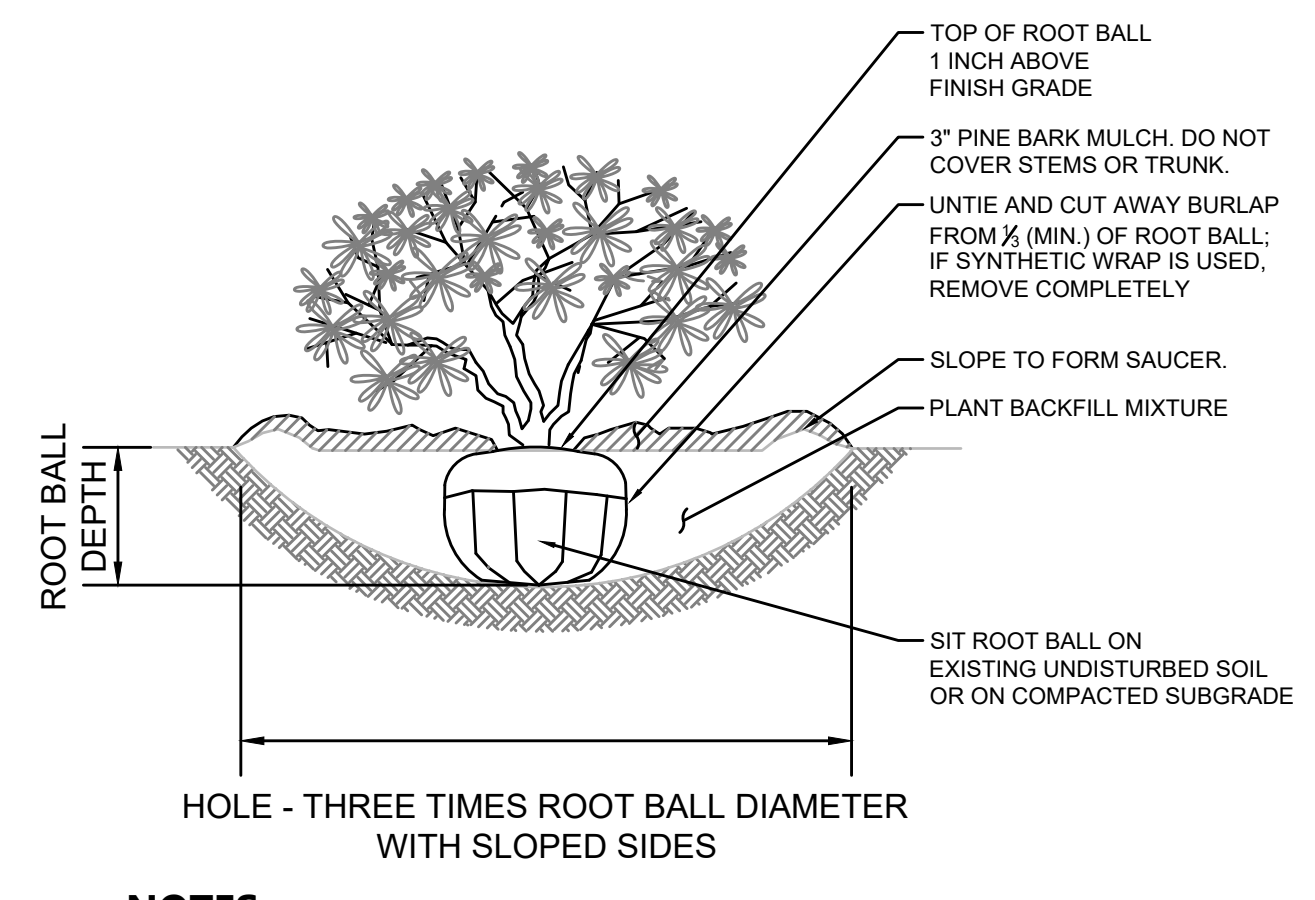
A  
B  
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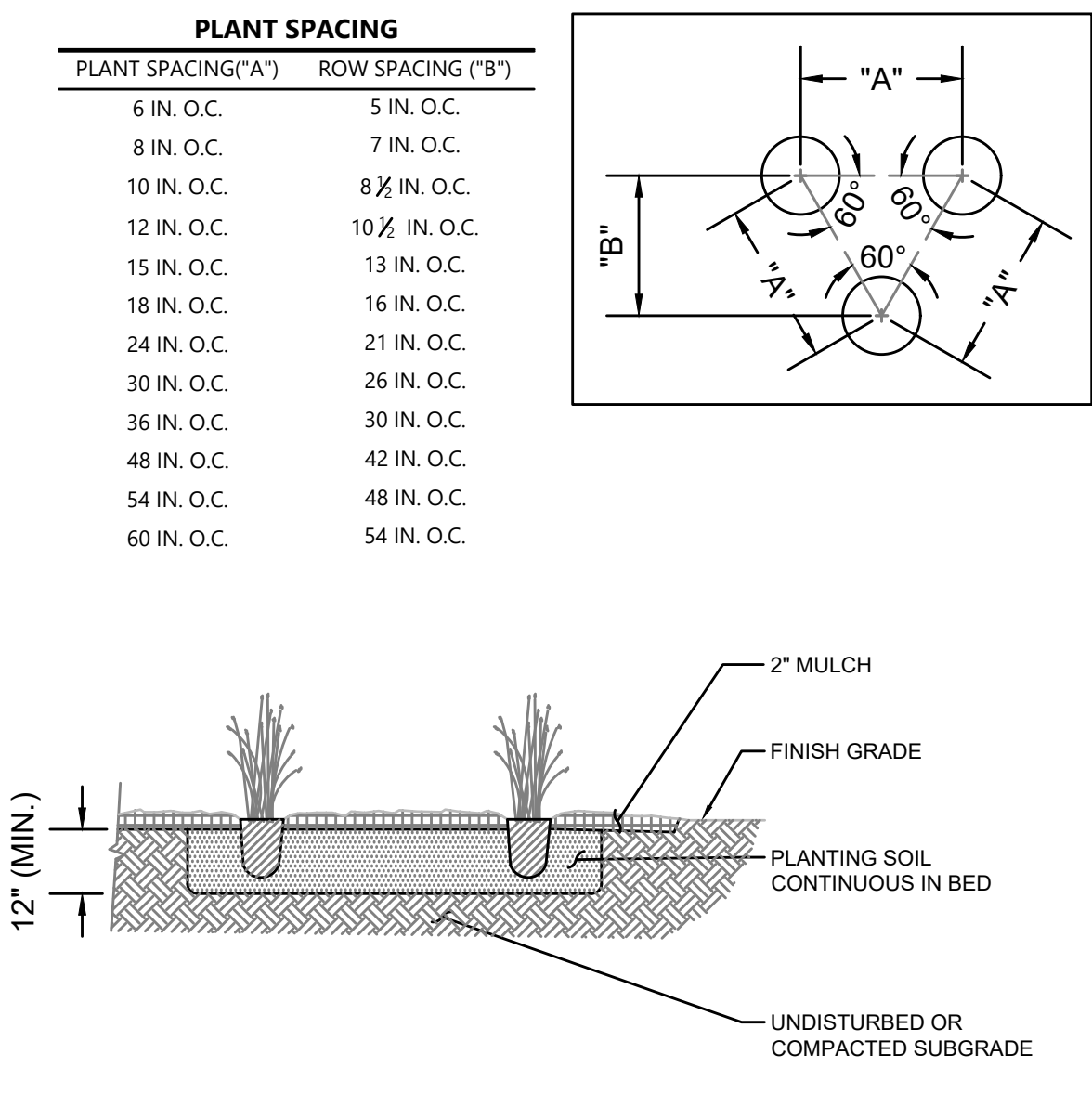
**NOTES**  
1. STAKING IS NOT REQUIRED FOR TREES UNDER 3\"/>

**TREE PLANTING (FOR TREES UNDER 4\"/>**



**NOTES**  
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

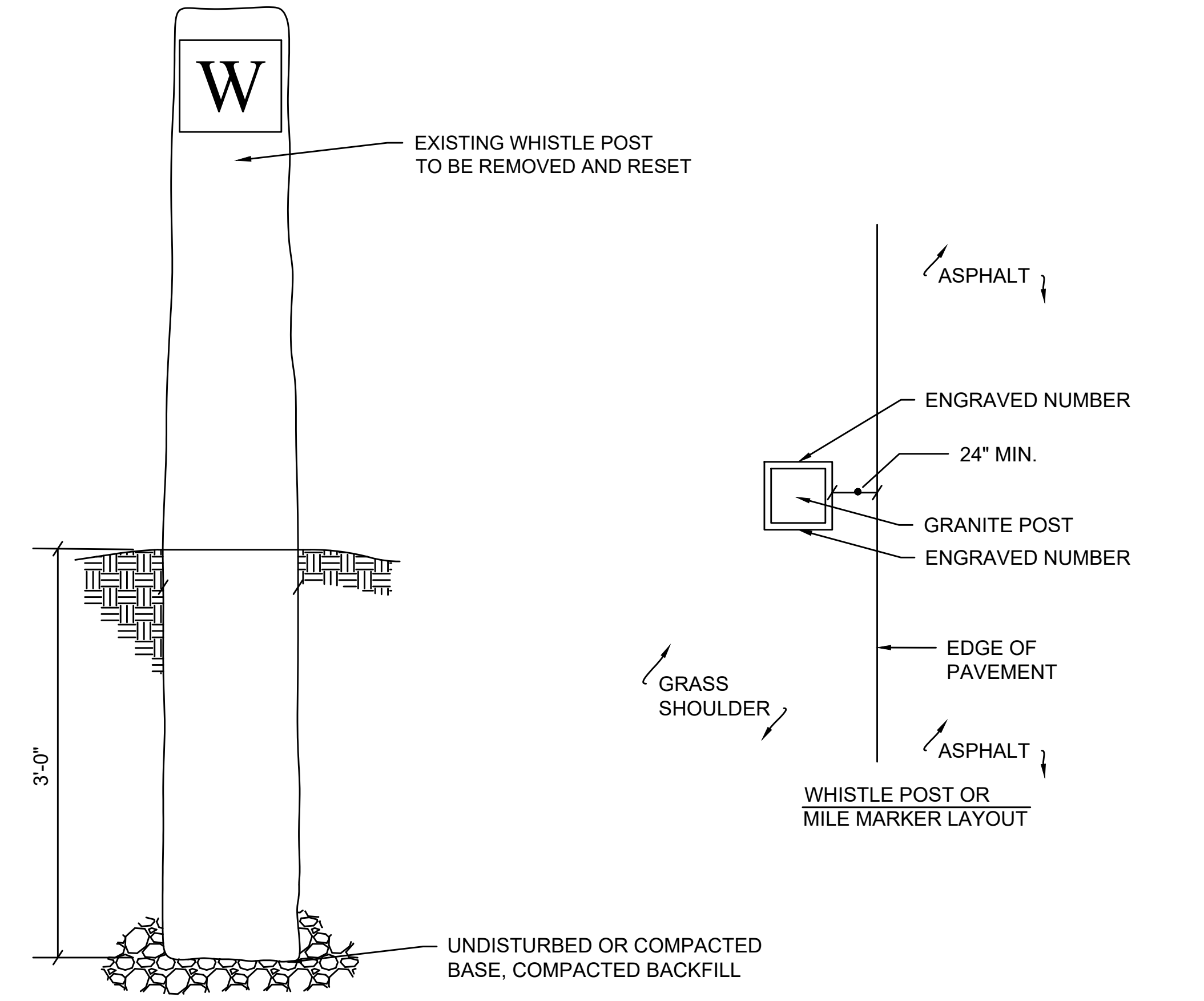
**SHRUB PLANTING**  
SCALE: NTS



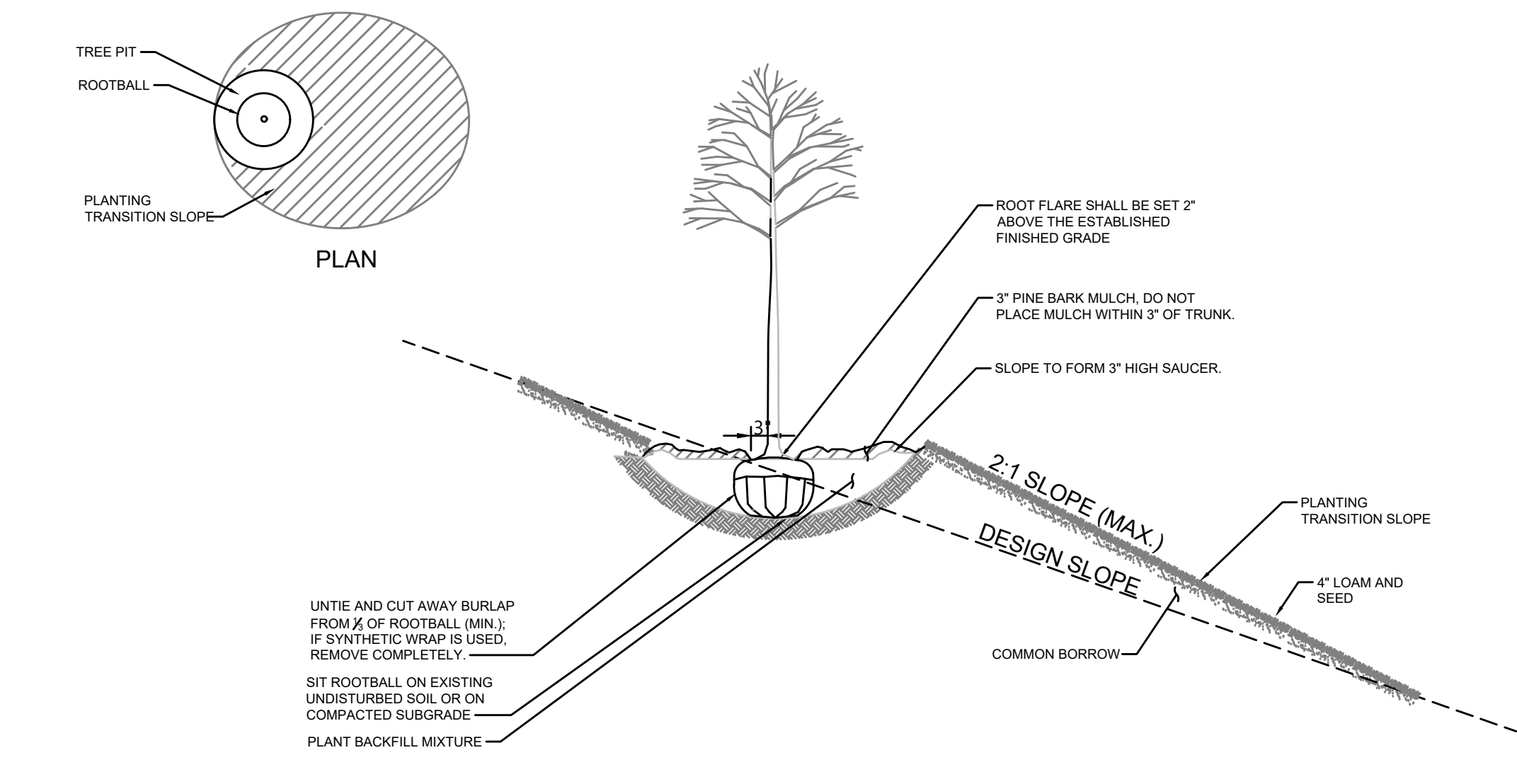
**PERENNIAL PLANTING**  
SCALE: NTS

**PLANT SPACING**

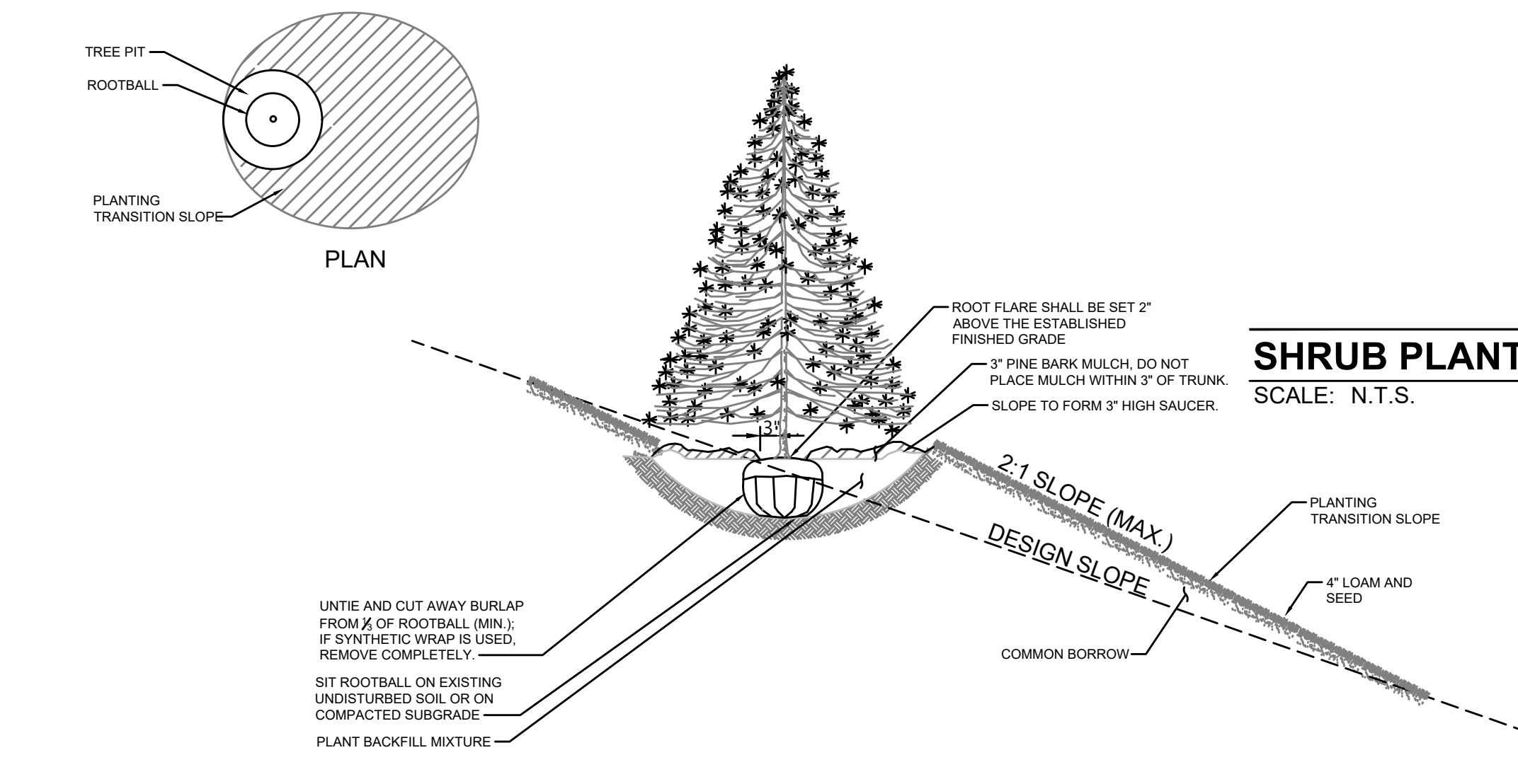
PLANT SPACING("A")	ROW SPACING("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 1/2 IN. O.C.
12 IN. O.C.	10 1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
48 IN. O.C.	42 IN. O.C.
54 IN. O.C.	48 IN. O.C.
60 IN. O.C.	54 IN. O.C.



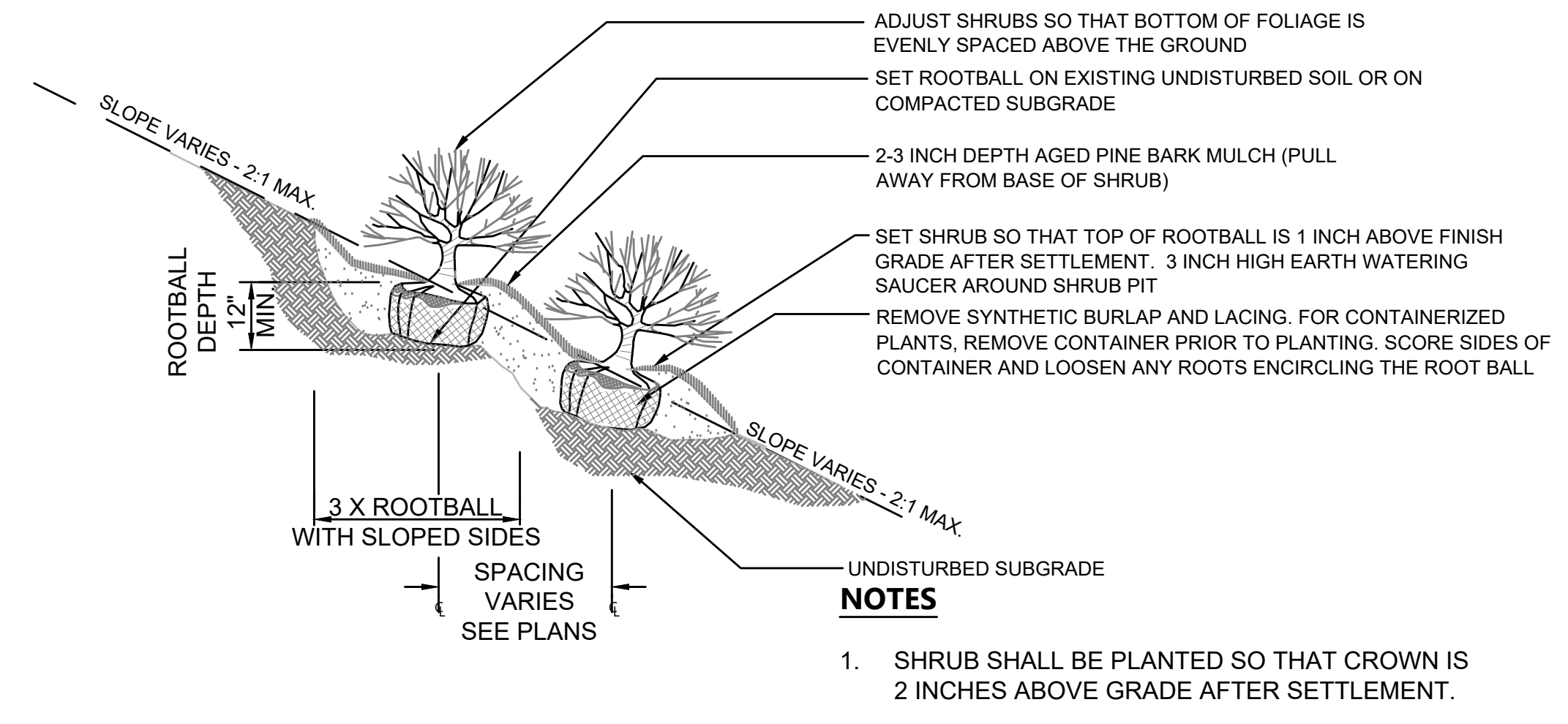
**WHISTLE POST OR MILE MARKER DETAIL**  
SCALE: NTS



**DECIDUOUS TREE PLANTING ON SLOPE**  
SCALE: N.T.S.



**EVERGREEN TREE PLANTING ON SLOPE**  
SCALE: N.T.S.



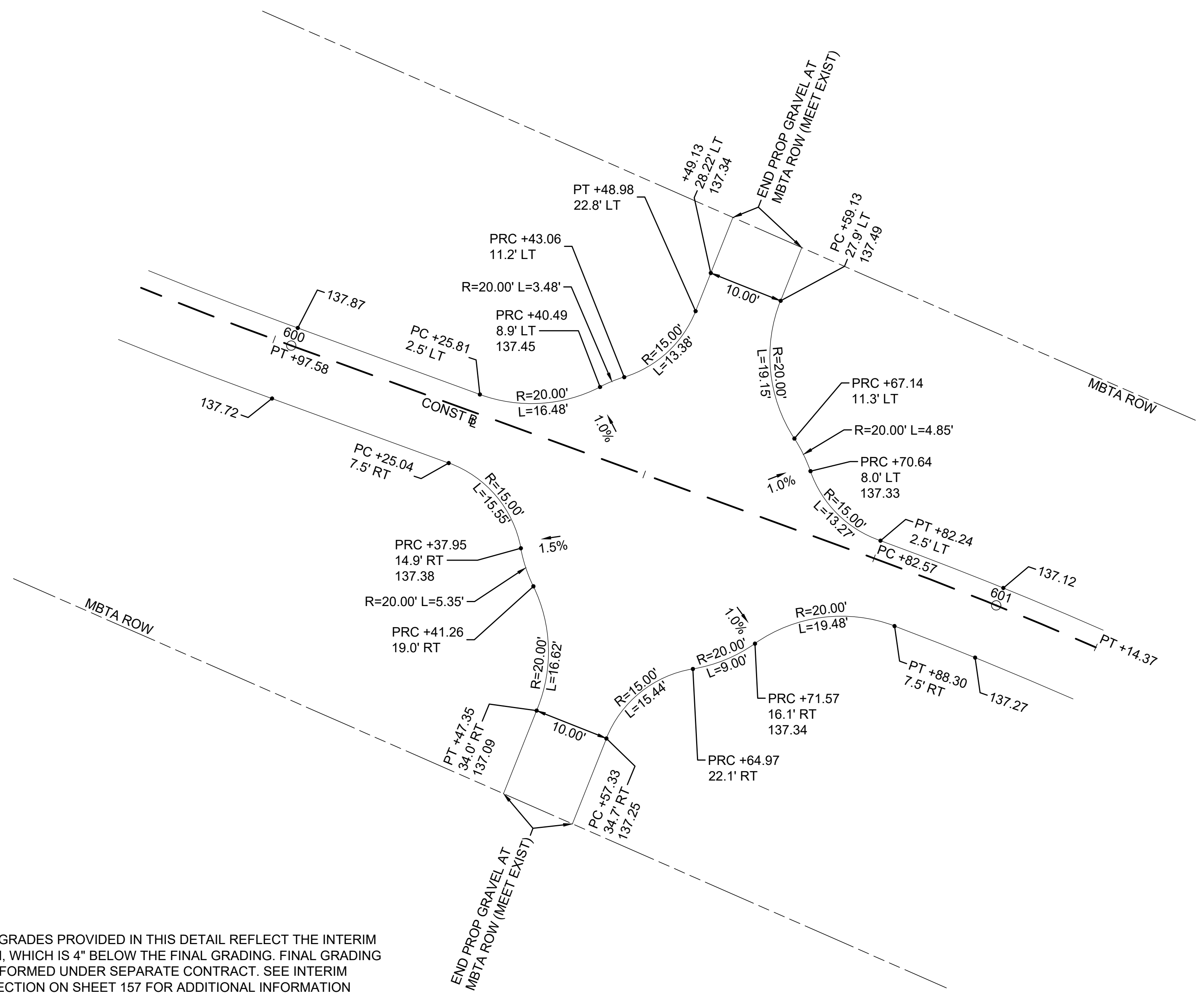
**SHRUB PLANTING ON SLOPE**  
SCALE: N.T.S.

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 162 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



1 2 3 4 5 6 7 8 9 10 11

A  
B  
C  
D  
E  
F  
G



NOTE:  
THE SPOT GRADES PROVIDED IN THIS DETAIL REFLECT THE INTERIM  
CONDITION, WHICH IS 4" BELOW THE FINAL GRADING. FINAL GRADING  
TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE INTERIM  
TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION

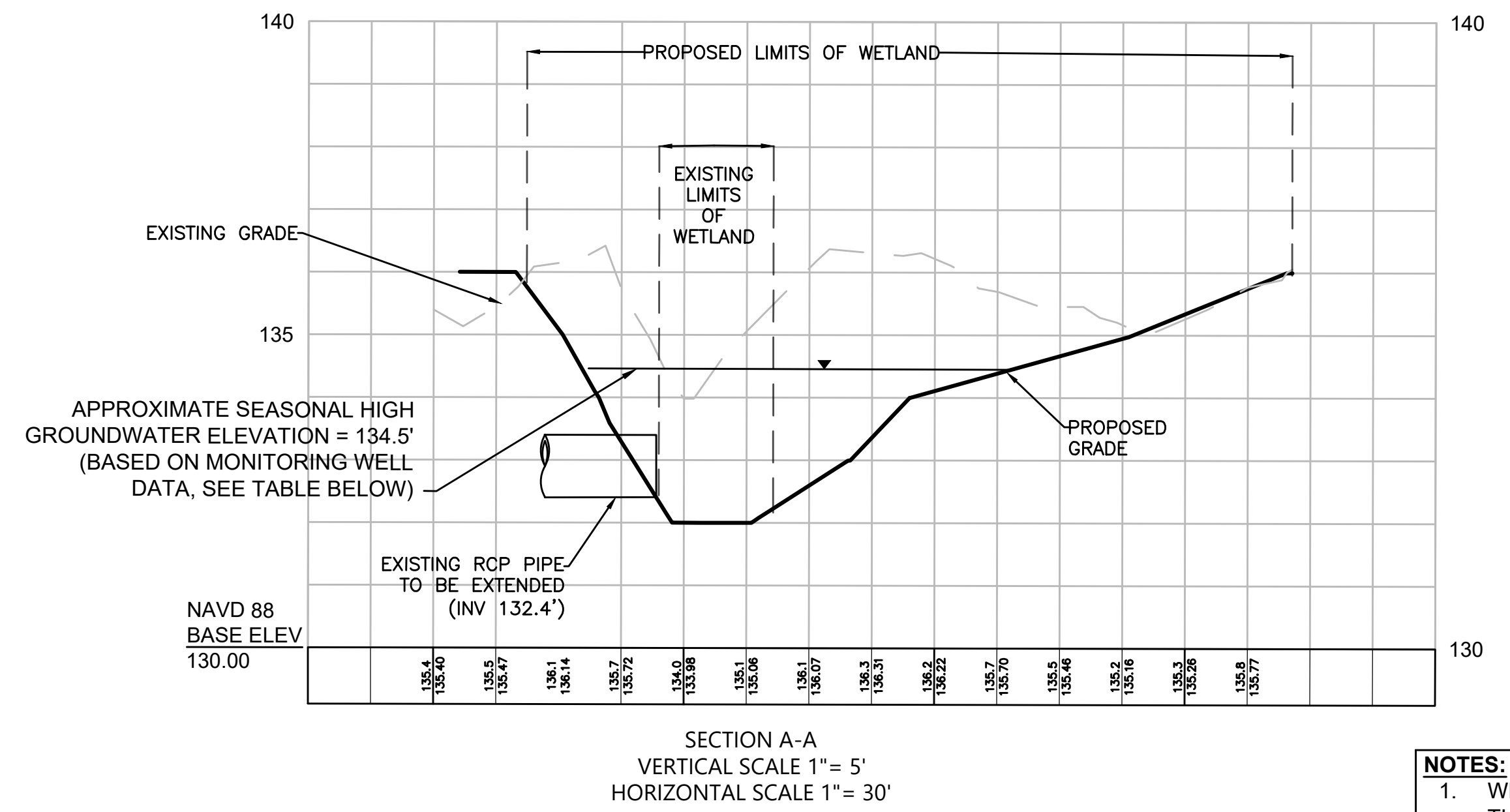
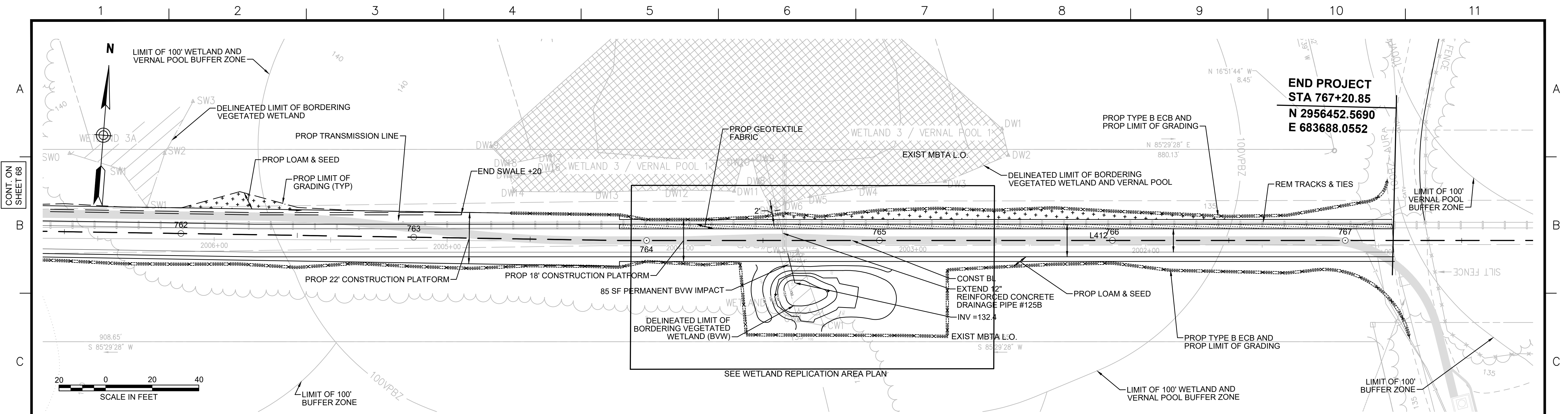
### ROUNDBOUT

SCALE: 1"=10'

NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION DETAILS					
PLAN 163 OF 348					
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.

1 2 3 4 5 6 7 8 9 10 11





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.
	REVISION			

**EVERSOURCE**

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT  
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS  
WETLAND REPLICATION GRADING PLAN  
PLAN 167 OF 347

SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
unless noted 1"=20'	JAN 2021	MBB	EJM	MAC		

**LEGEND**

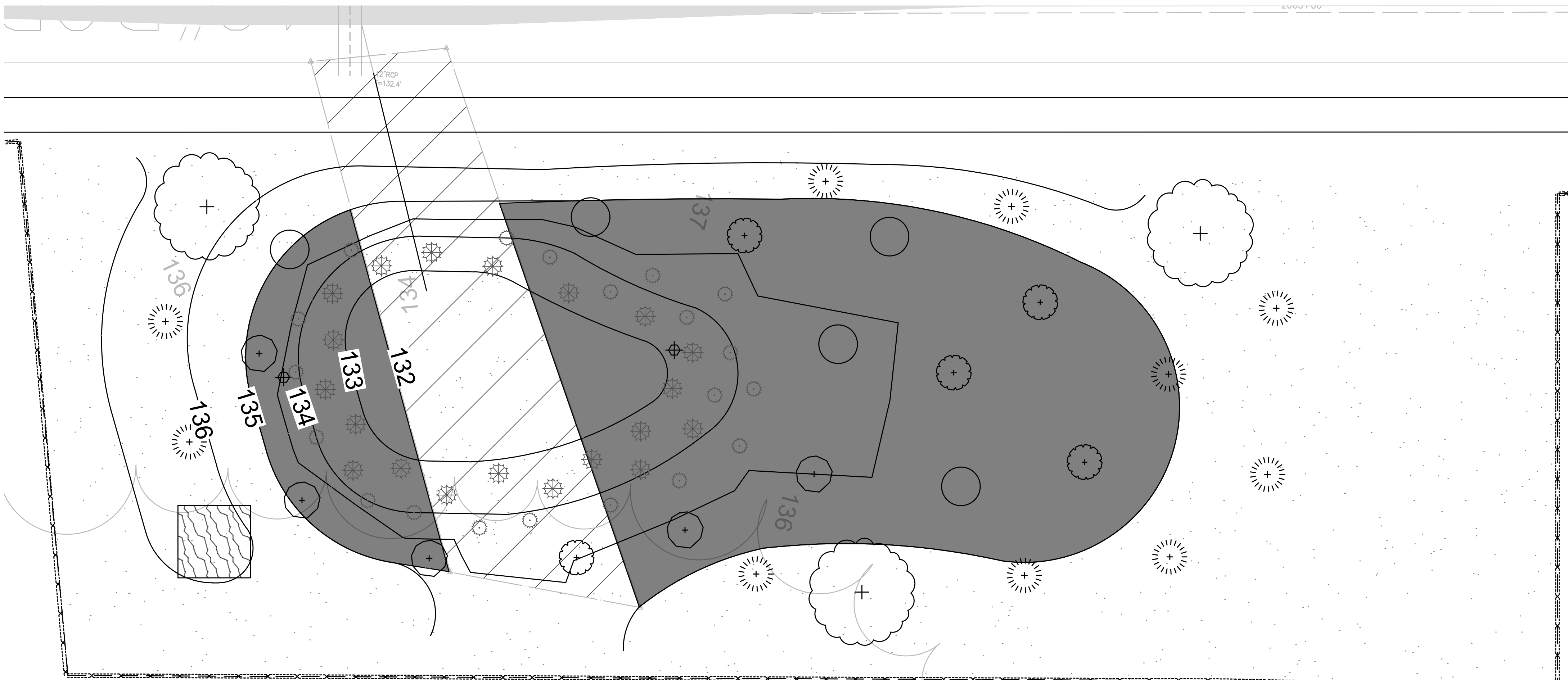
- TEMPORARY BVW IMPACTS (201 SF)
- PERMANENT BVW IMPACTS (85 SF)
- PROPOSED BVW REPLICATION AREA (819 SF)

WETLAND REPLICATION AREA PLAN  
SCALE 1" = 10'

CONT. ON SHEET 68



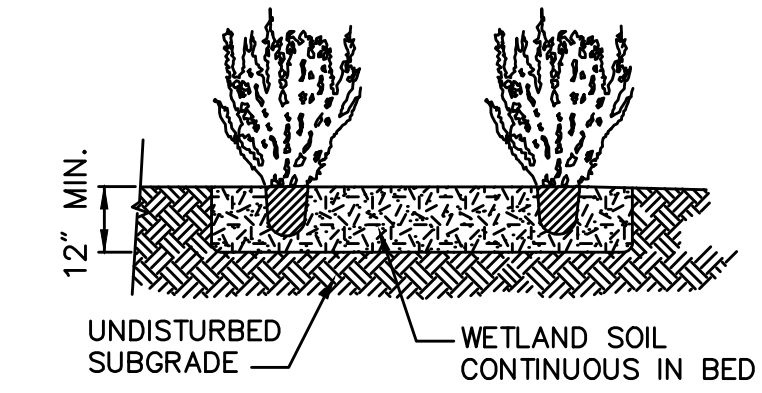
CONT. ON SHEET 68



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	5	6-8 ft. on center
arrow arum ( <i>Peltandra virginica</i> )	OBL	Herbaceous	2" plug	20	2-3 ft. on center
swamp rose	OBL	Shrub	18-24 inches	5	6 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: WHB LD\_691

LEGEND

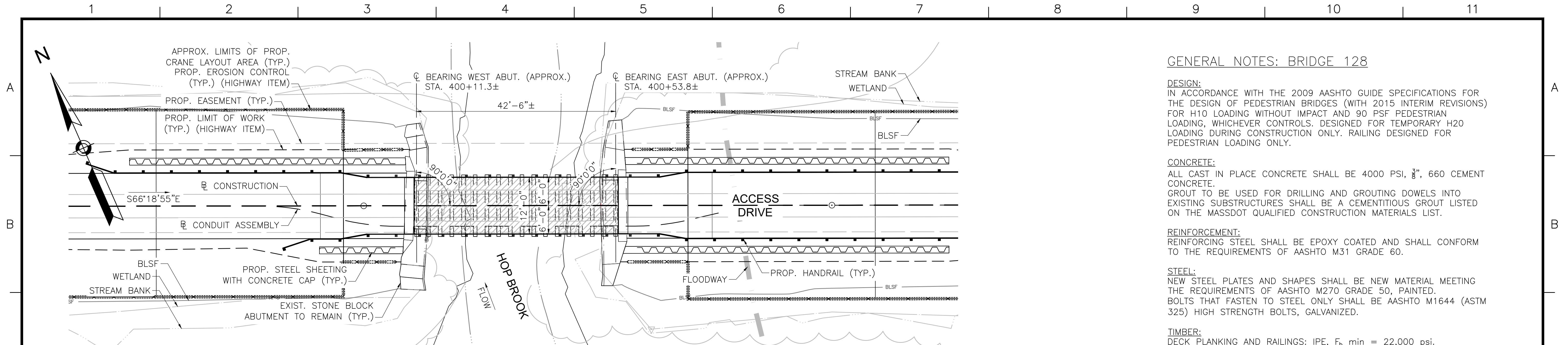
	WETLAND SEED MIX		BUTTONBUSH		GIANT BUR-REED
	REPLICATION AREA/WETLAND SEED MIX		SWEET PEPPERBUSH		ARROW ARUM
	SILKY DOGWOOD		RED MAPLE		TREE SNAG
	SWAMP ROSE				

- 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 SEEDED 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 RESEED WITH A SUITABLE WETLAND SEED MIX.
  - SHRUBS AND SEED MIX ARE SUBJECT TO CHANGE OR SUBSTITUTION PENDING AVAILABILITY AND ACTUAL SITE CONDITIONS.

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

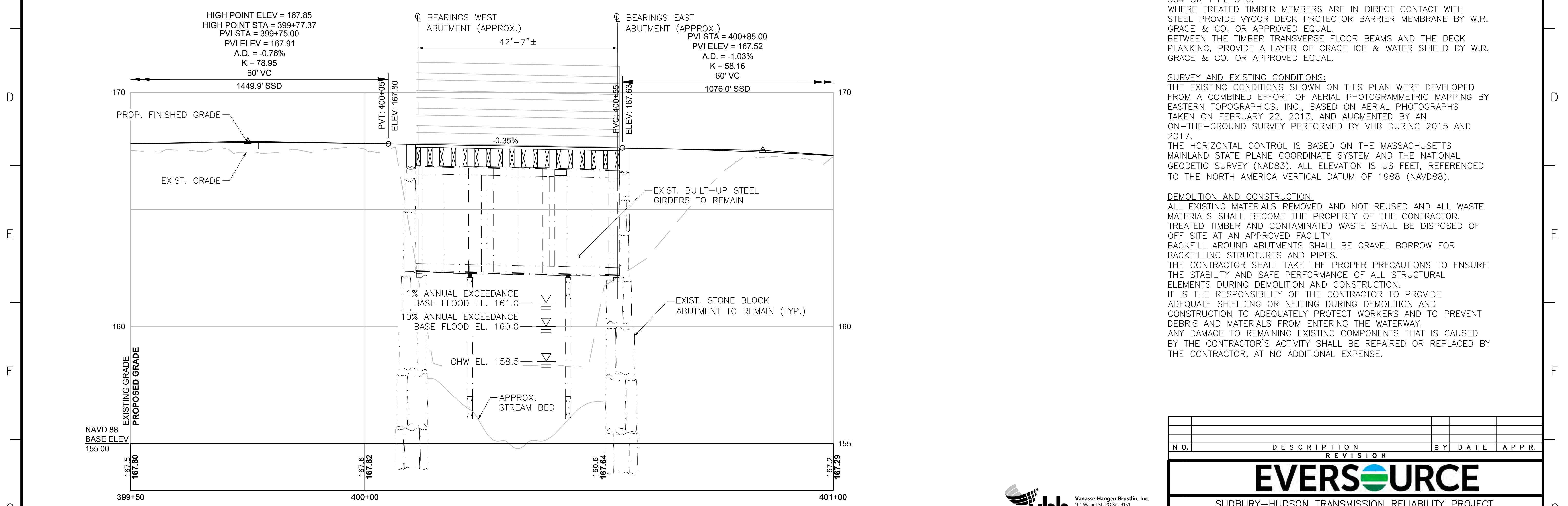
NO.				DESCRIPTION				BY DATE		APPR.										
<b>EVERSOURCE</b>																				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT																				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS																				
WETLAND REPLICATION PLANTING PLAN																				
PLAN 168 OF 347																				
SCALE: unless noted 1"=4'			DATE			DRAWN			CHK'D.			APPR.			DRAWING NO.			REV.		
			JAN 2021			MBB			EJM			MAC								





**BRIDGE KEY PLAN**

SCALE: 1"=10'



**PROFILE - ACCESS DRIVE**

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1/2"=1'-0"

**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, 3/8", 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 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.  
 FLOOR BEAMS: SYP NO. 1 OR BETTER, F<sub>b</sub> 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 OR NETTING 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.



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 101 Walnut St., PO Box 9151  
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NO.	DESCRIPTION	BY	DATE	APP.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-017 (BRIDGE 128) - KEY PLAN & PROFILE				
PLAN 188 OF 348				
SCALE: unless noted H: 1"=10' V: 1"=2'		DATE DRAWN JAN 2021		REV. AMS
		C H K D. SBK		APP R. KGK
		DRAWING NO.		REV.



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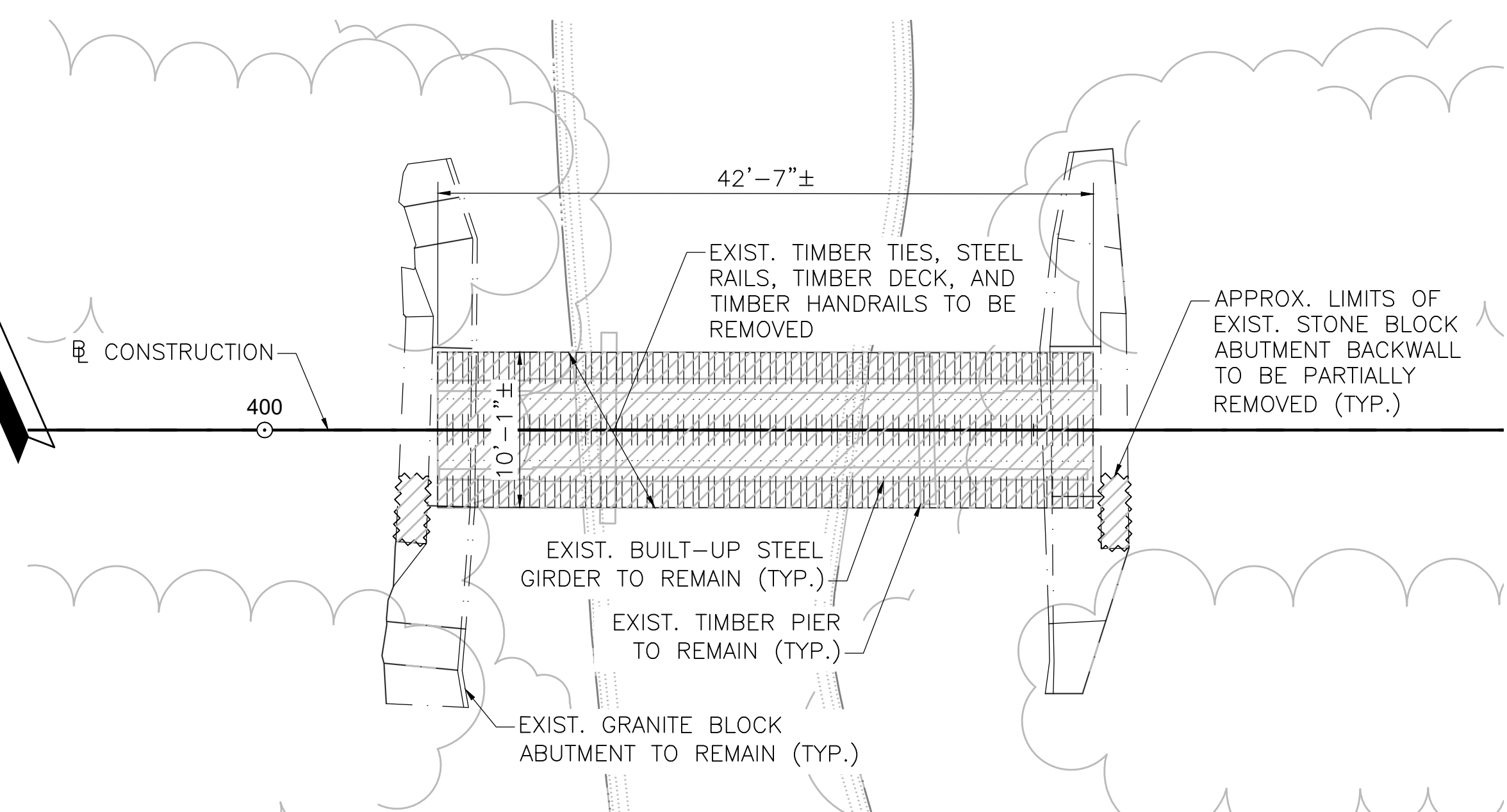
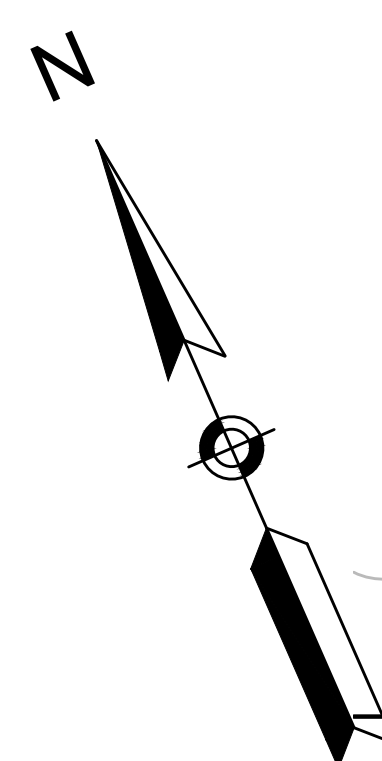
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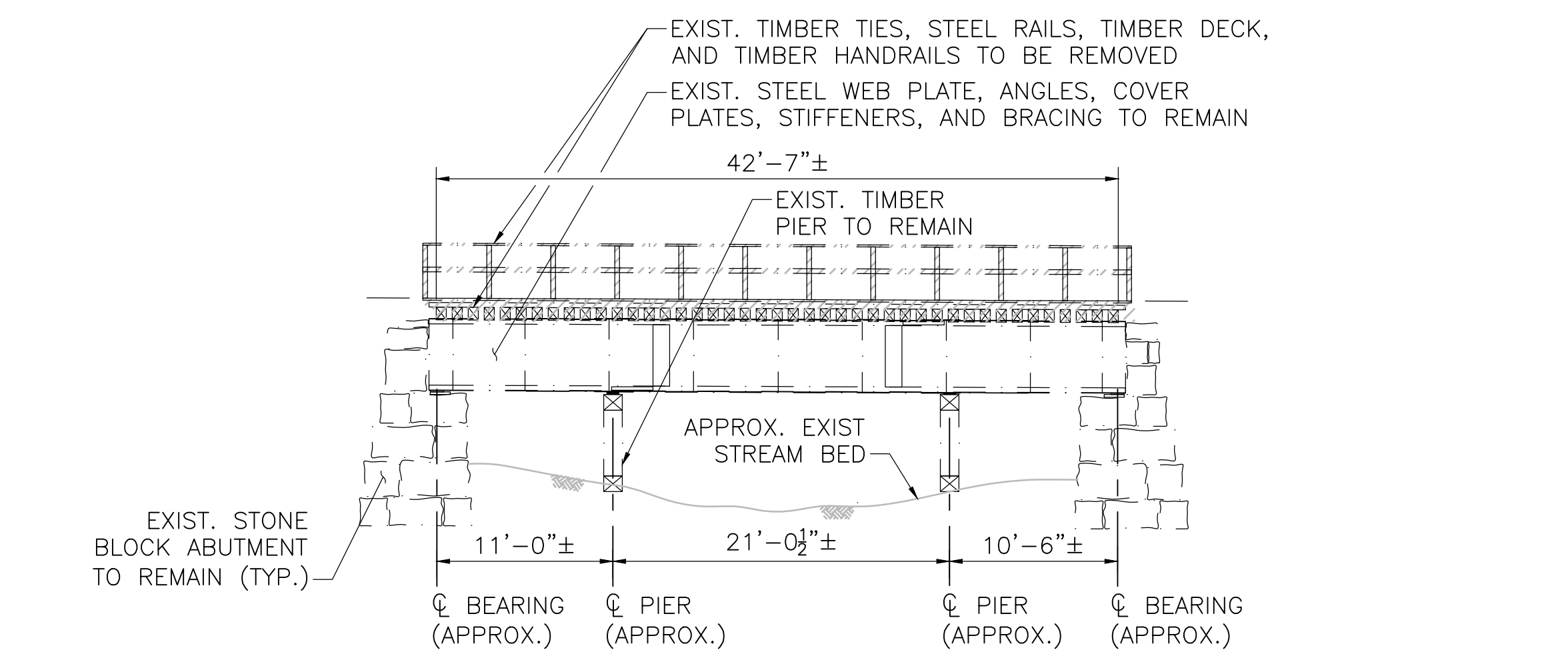
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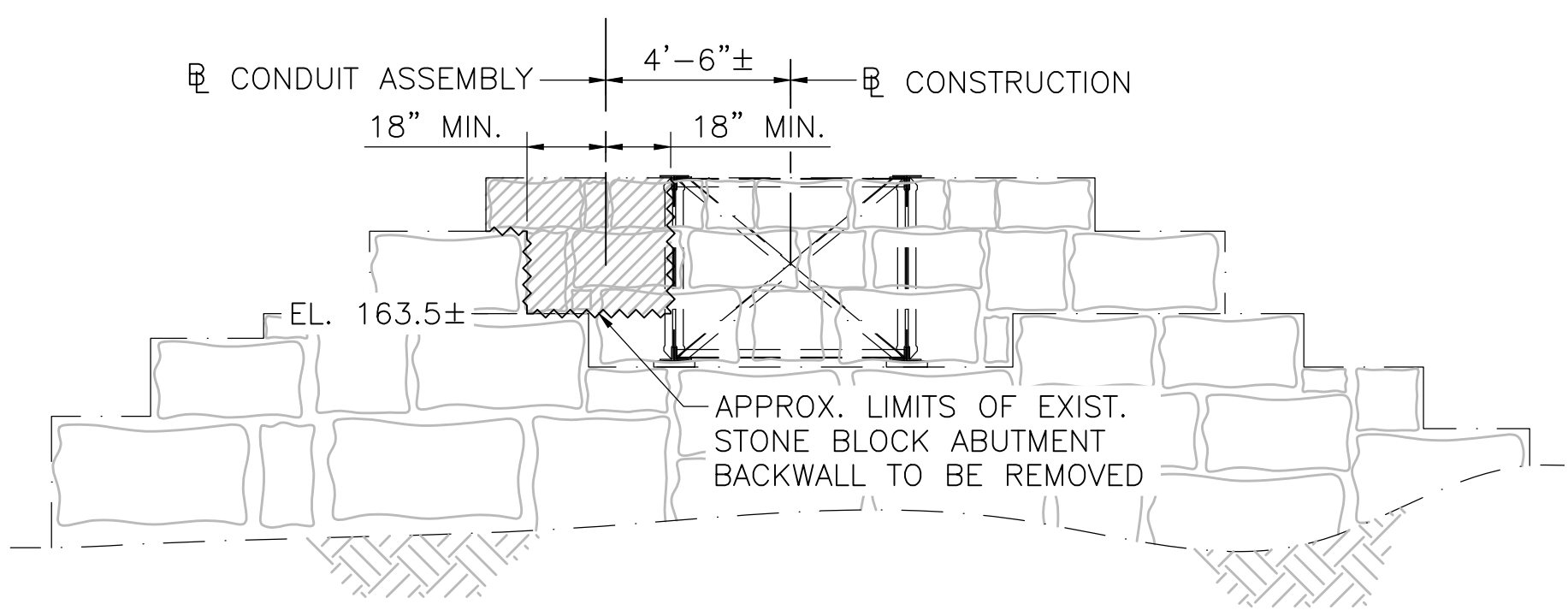
**BRIDGE PLAN**

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



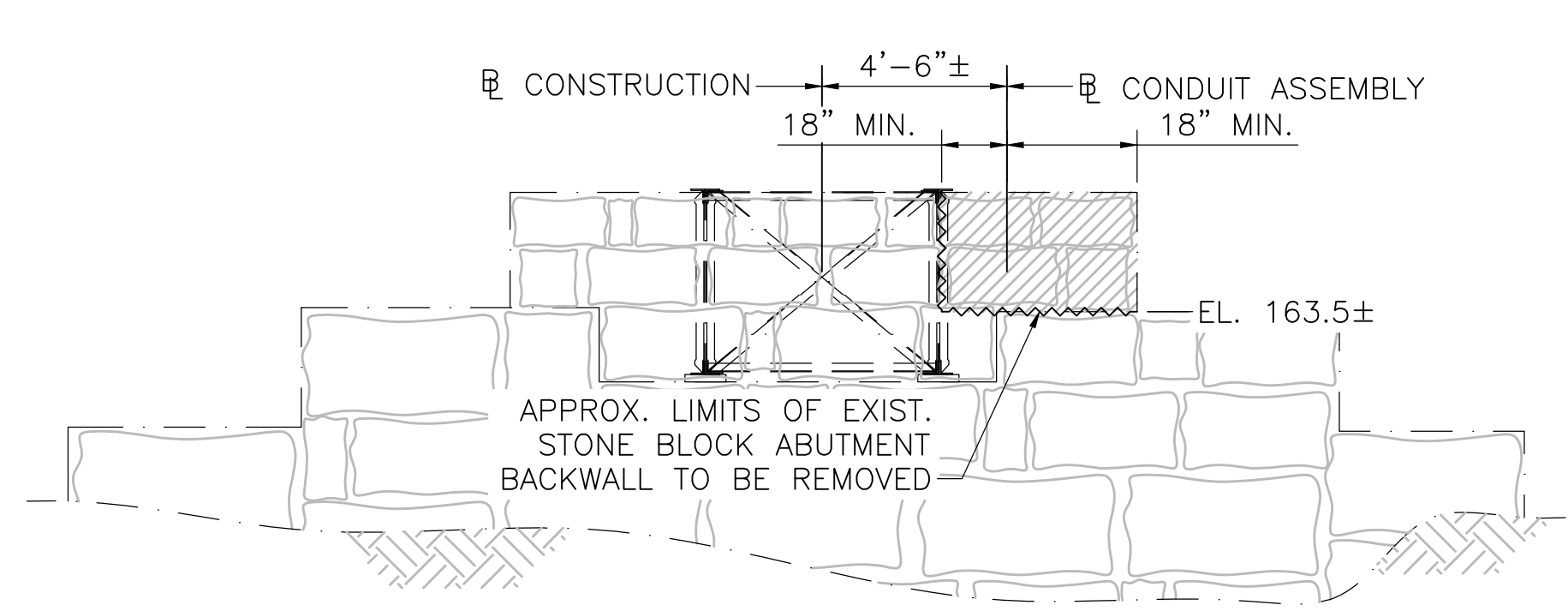
**BRIDGE ELEVATION**

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



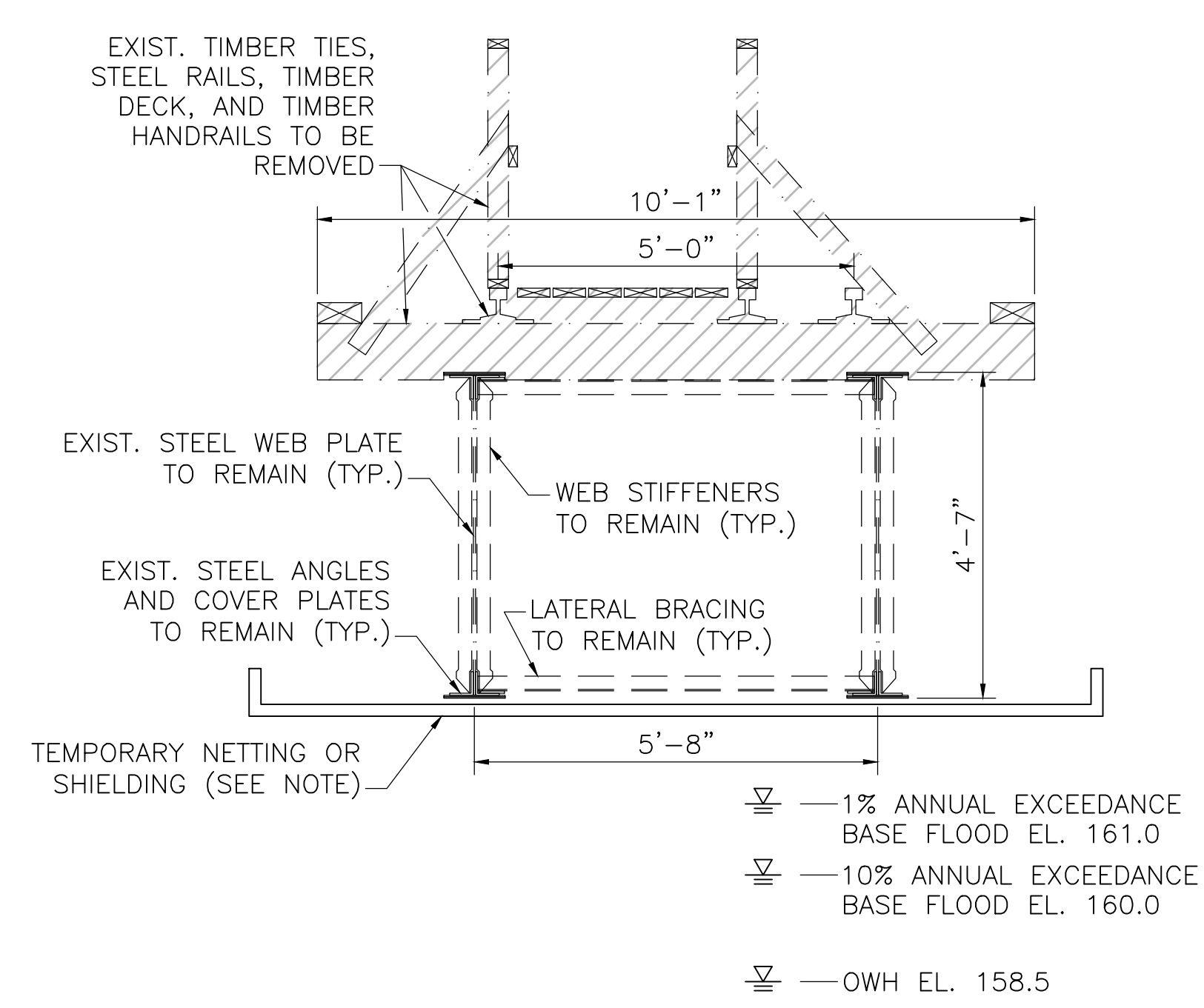
**WEST ABUTMENT ELEVATION**

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



**EAST ABUTMENT ELEVATION**

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

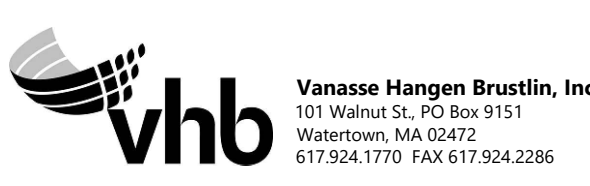


**BRIDGE TRANSVERSE SECTION**

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

NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING OR NETTING 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.

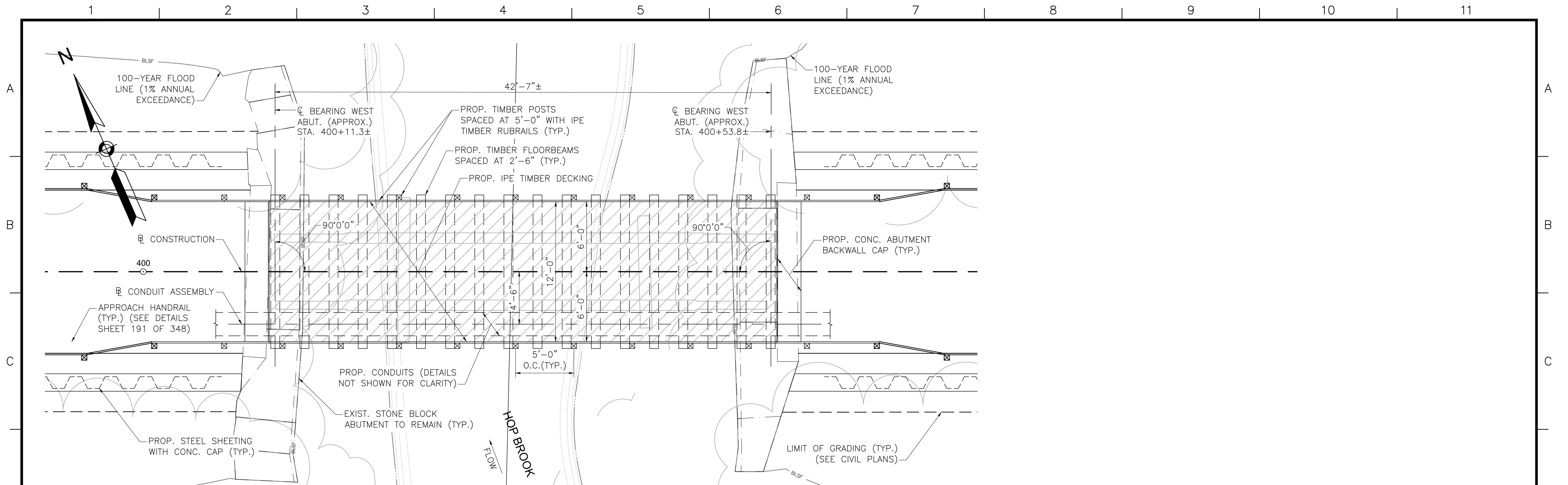
- ▽ — 1% ANNUAL EXCEEDANCE BASE FLOOD EL. 161.0
- ▽ — 10% ANNUAL EXCEEDANCE BASE FLOOD EL. 160.0
- ▽ — OWH EL. 158.5



N.O.	DESCRIPTION	REVISION	BY	DATE	APPR.
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
BRIDGE S-31-017 (BRIDGE 128) - DEMOLITION PLAN					
PLAN 189 OF 348					
SCALE: unless noted VARIES	DATE: JAN 2021	DRAWN: AMS	CHECKED: SBK	APPROVED: KGK	DRAWING NO. REV.

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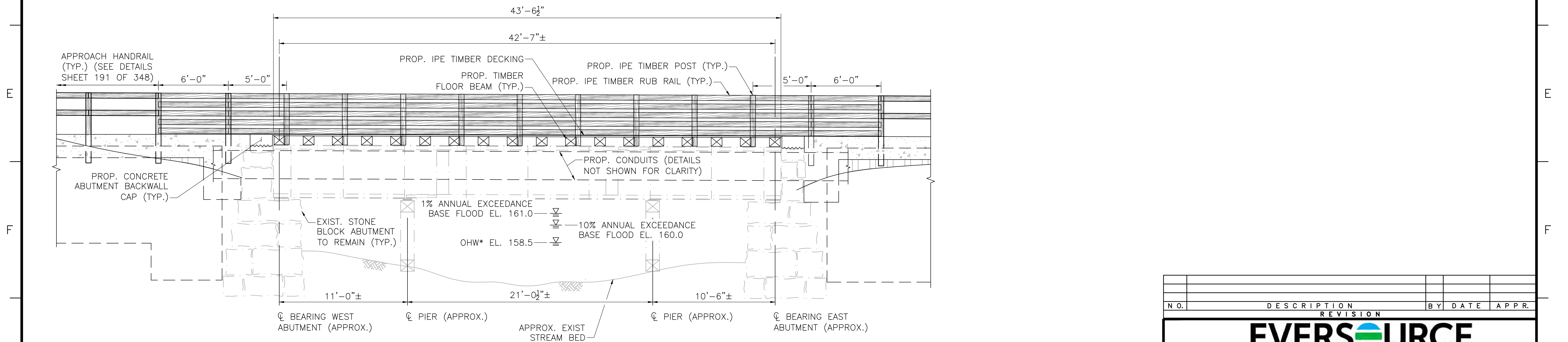




**BRIDGE 128 (HOP BROOK) PLAN**

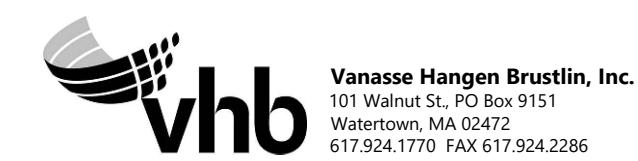
SCALE: 1/4"=1'-0"

\*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 90 OF 348				
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	CHECKED SBK	APPROVED KGK
			DRAWING NO.	REV.

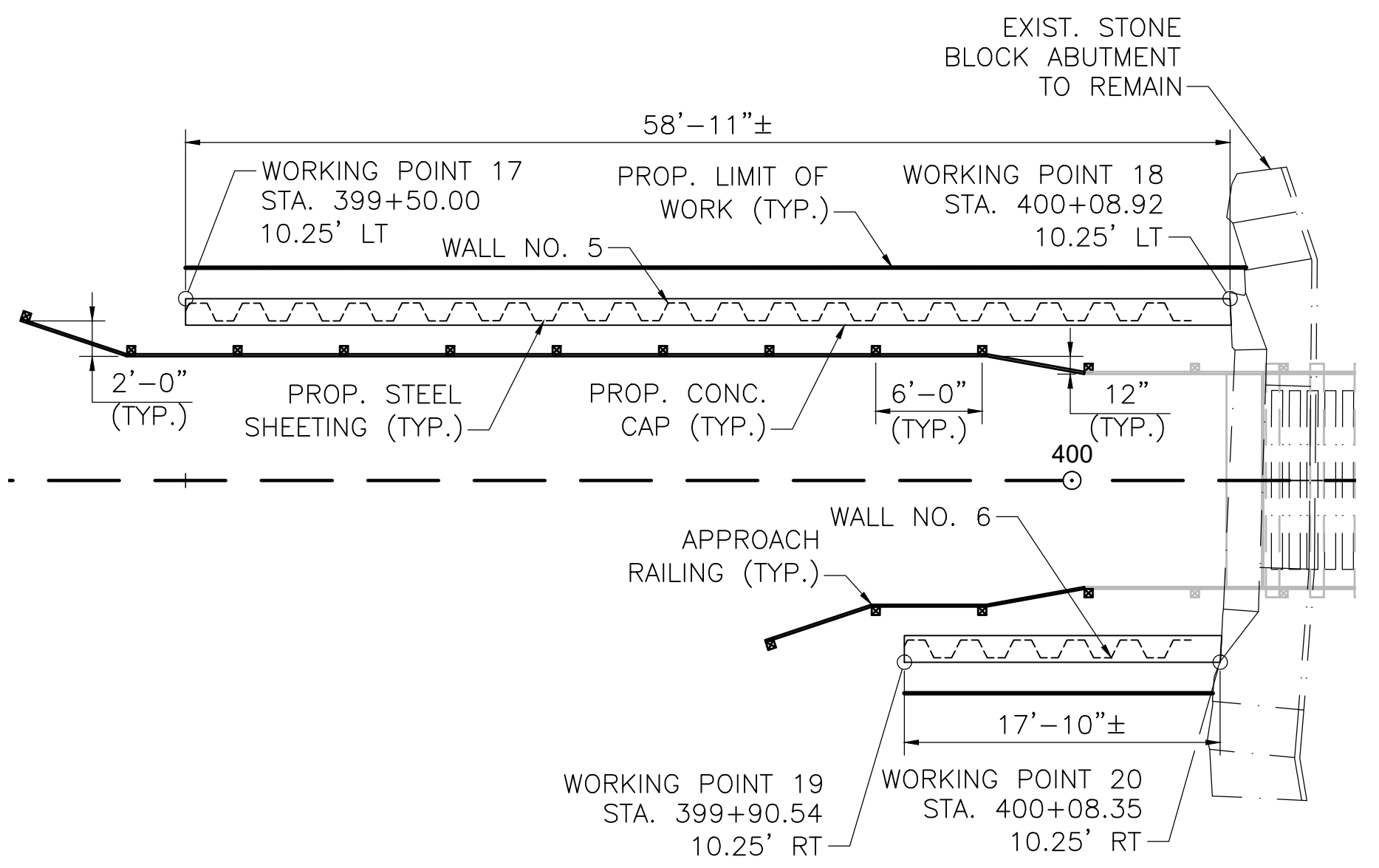


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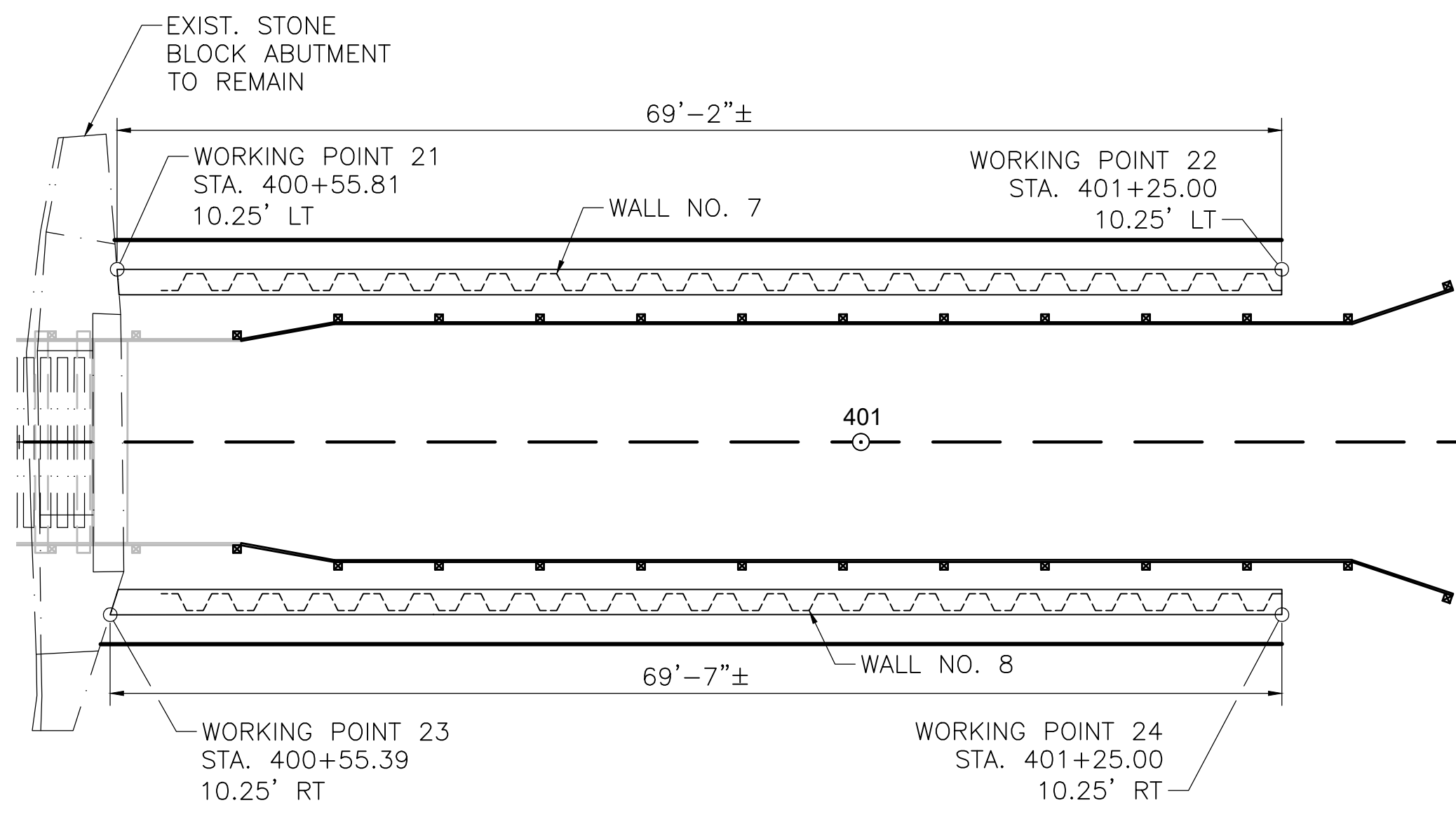
**NOTES:**

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.



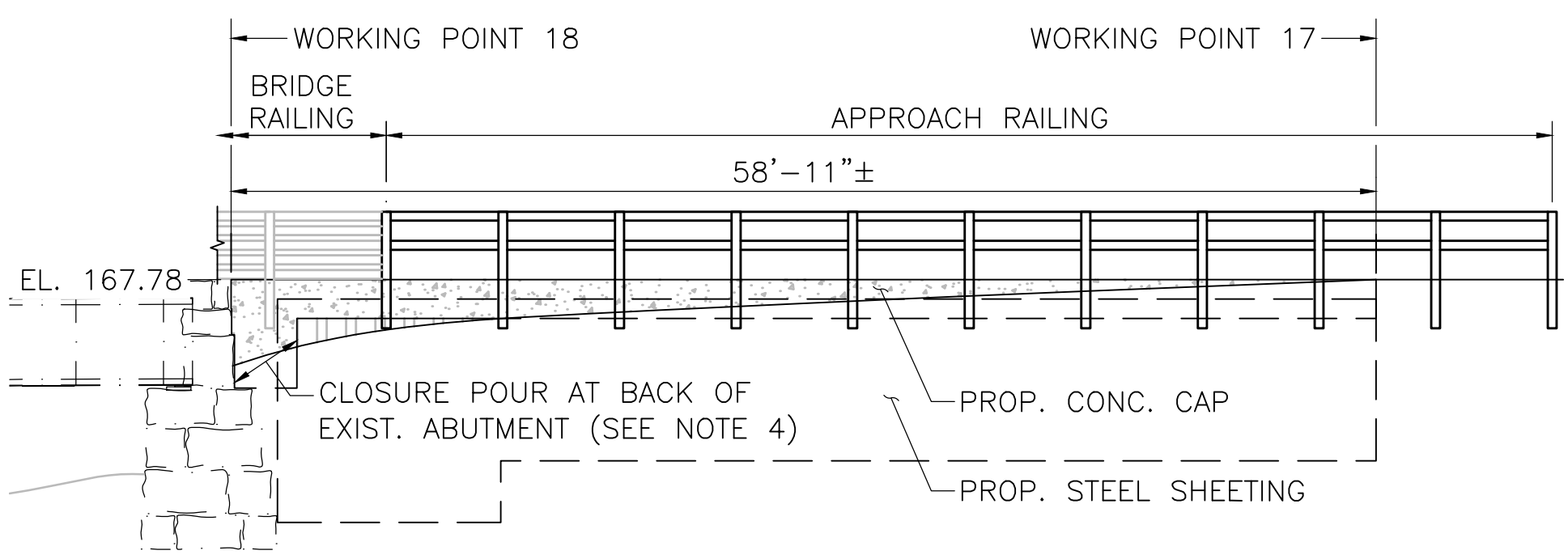
**WALL 5 & 6 SHEETING PLAN (WEST APPROACH)**

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



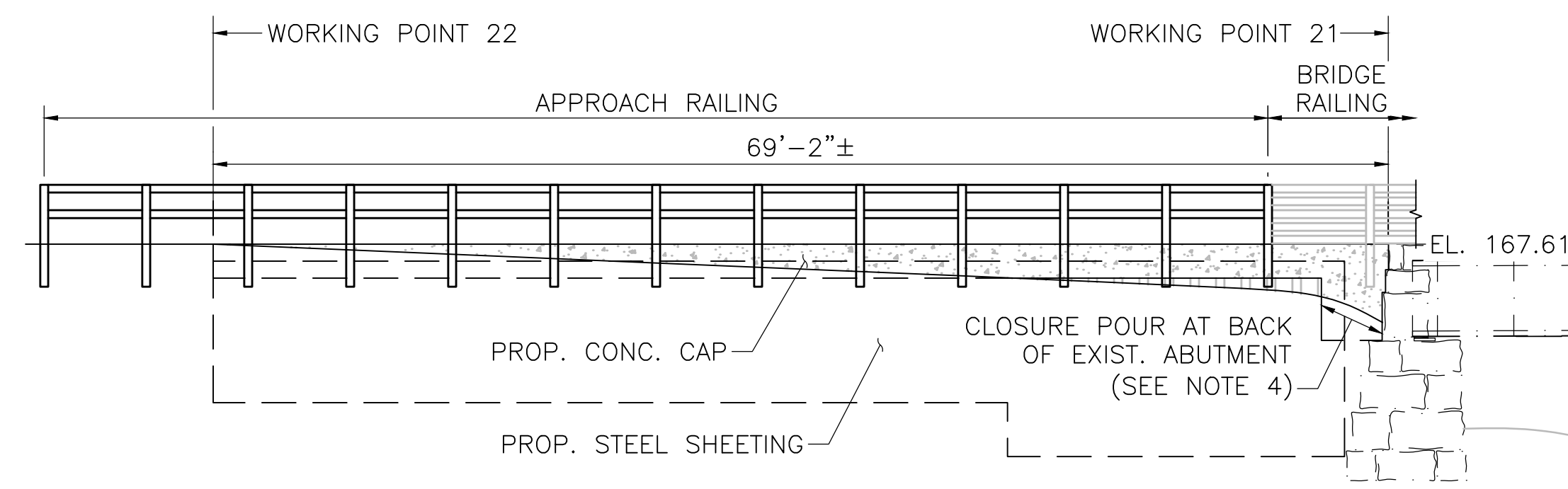
**WALL 7 & 8 SHEETING PLAN (EAST APPROACH)**

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



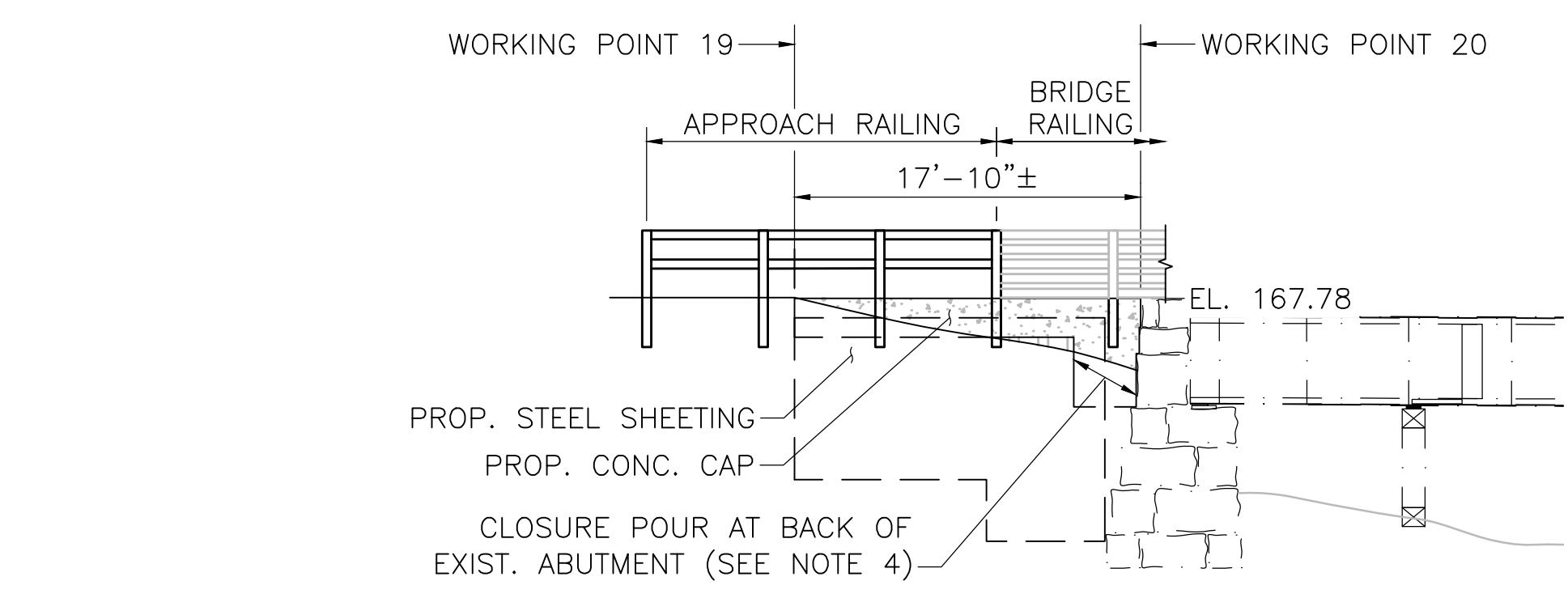
**WALL 5 ELEVATION (WEST APPROACH NORTH SHEETING WALL)**

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



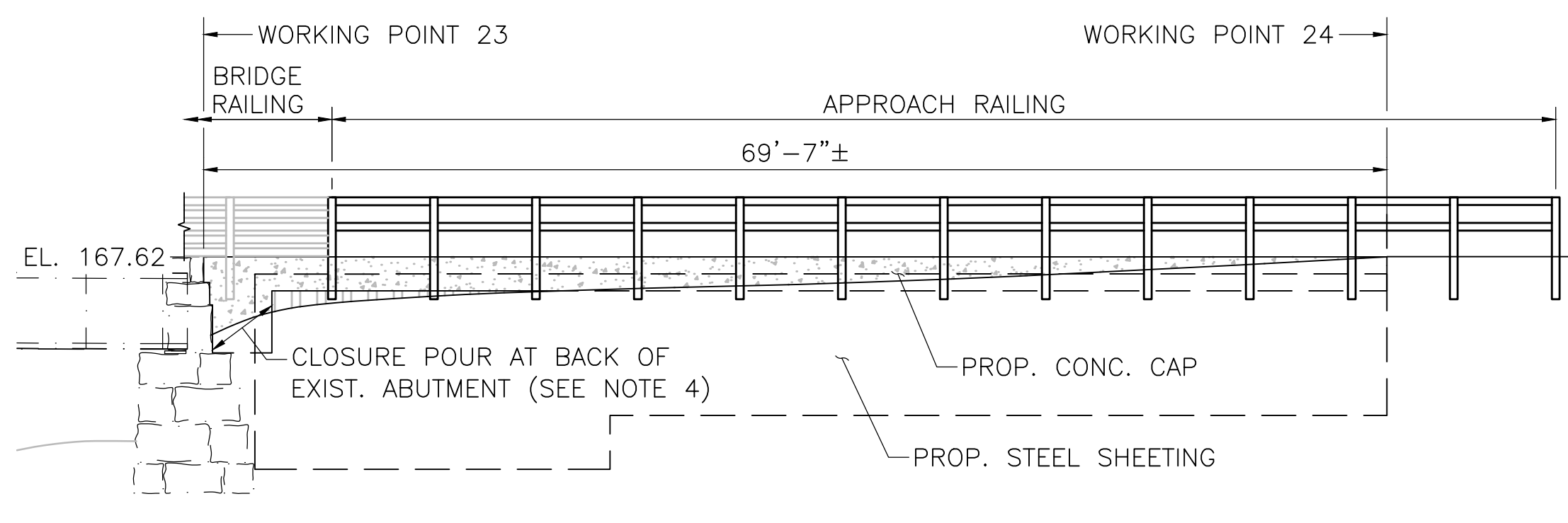
**WALL 7 (EAST APPROACH NORTH SHEETING WALL)**

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



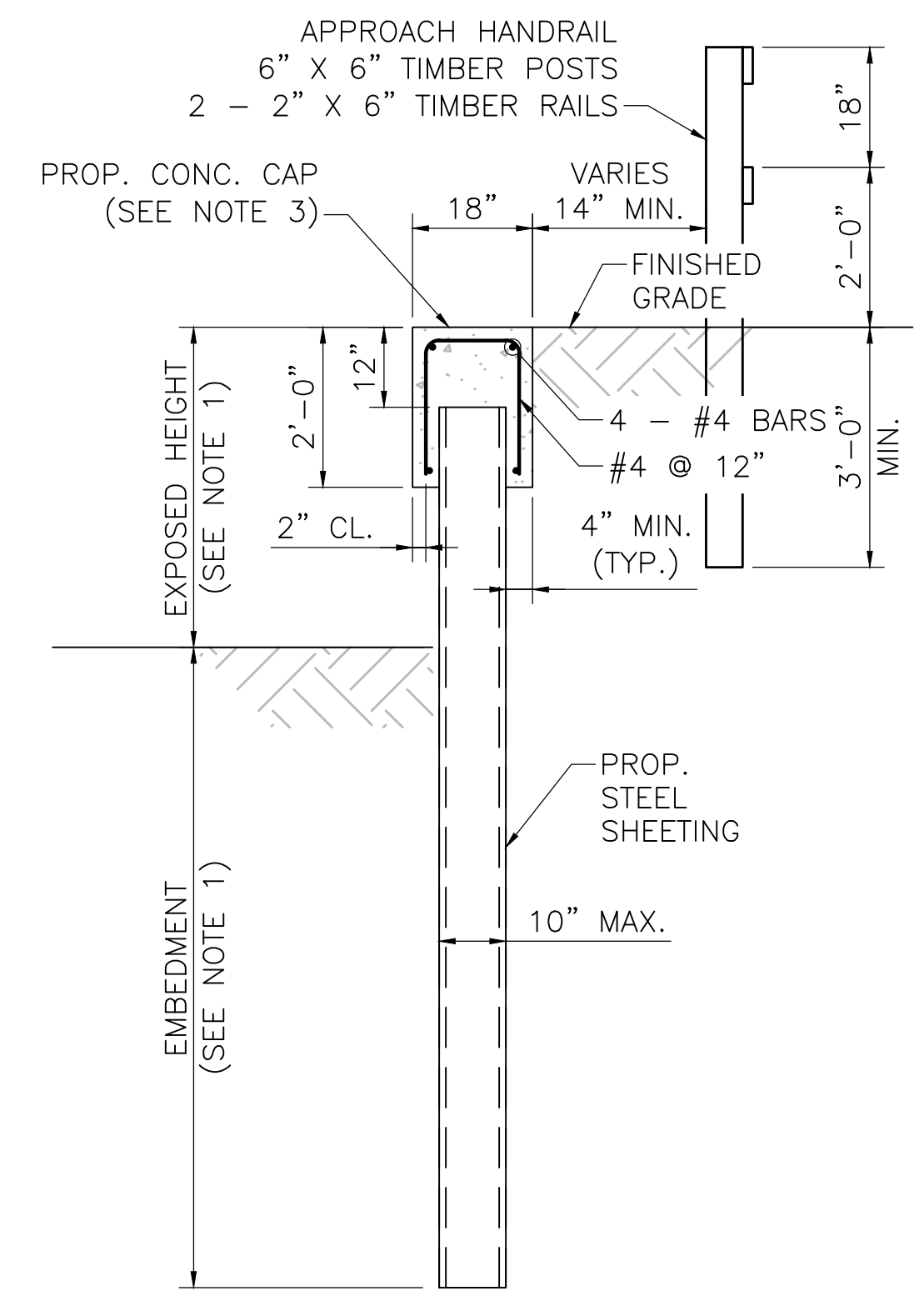
**WALL 6 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)**

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



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

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



**TYPICAL SHEETING SECTION**

SCALE: 1/8"=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.)

NO.				DESCRIPTION				BY DATE		APPR.	
REVISION											
<b>EVERSOURCE</b>											
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT											
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS											
BRIDGE H-25-017 (BRIDGE 128) - SHEETING PLAN											
PLAN191 OF 348											
SCALE: unless noted 1"=8'		DATE JAN 2021		DRAWN AMS		CHK'D. SBK		APPR. KGK		DRAWING NO. REV.	

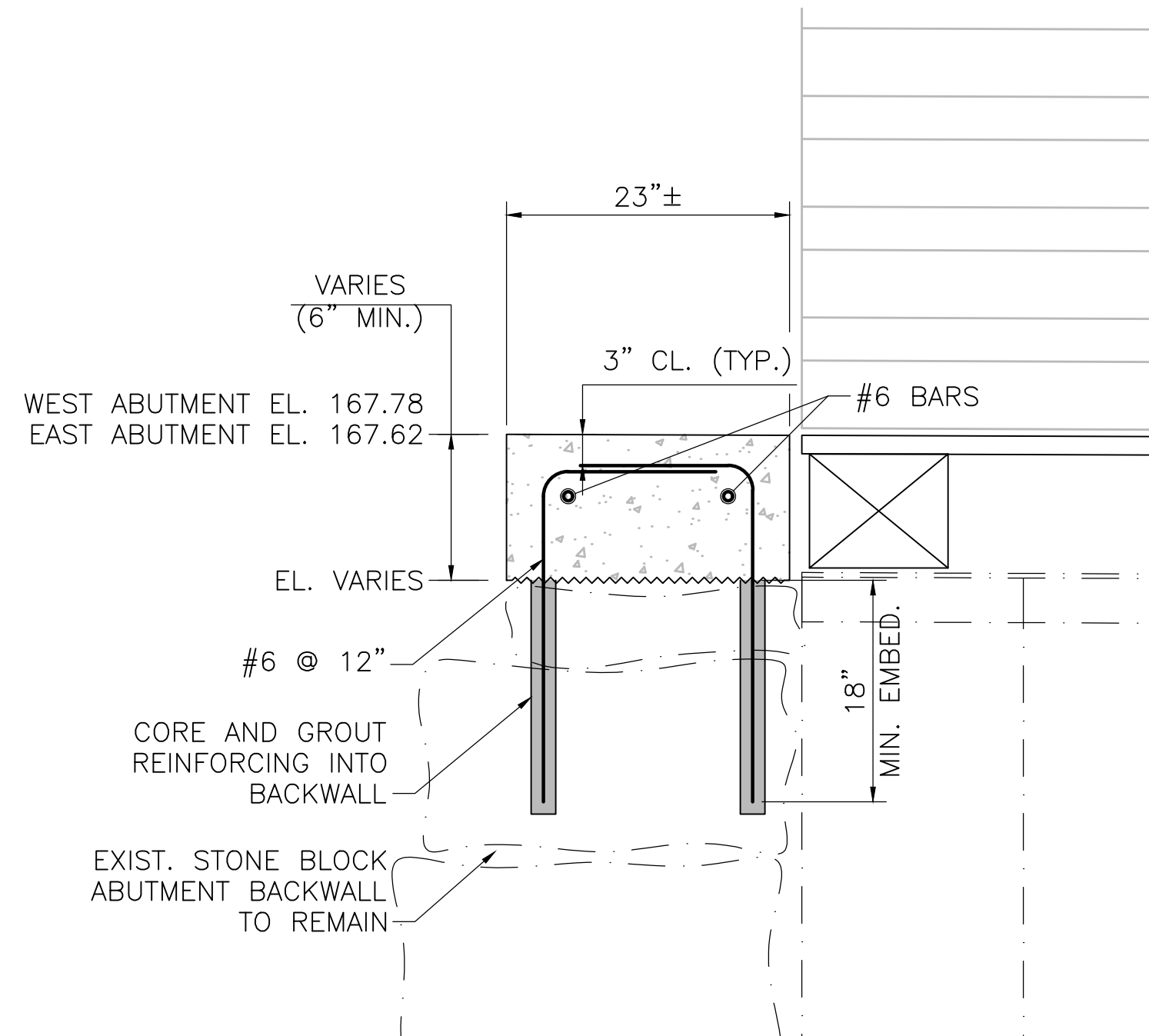




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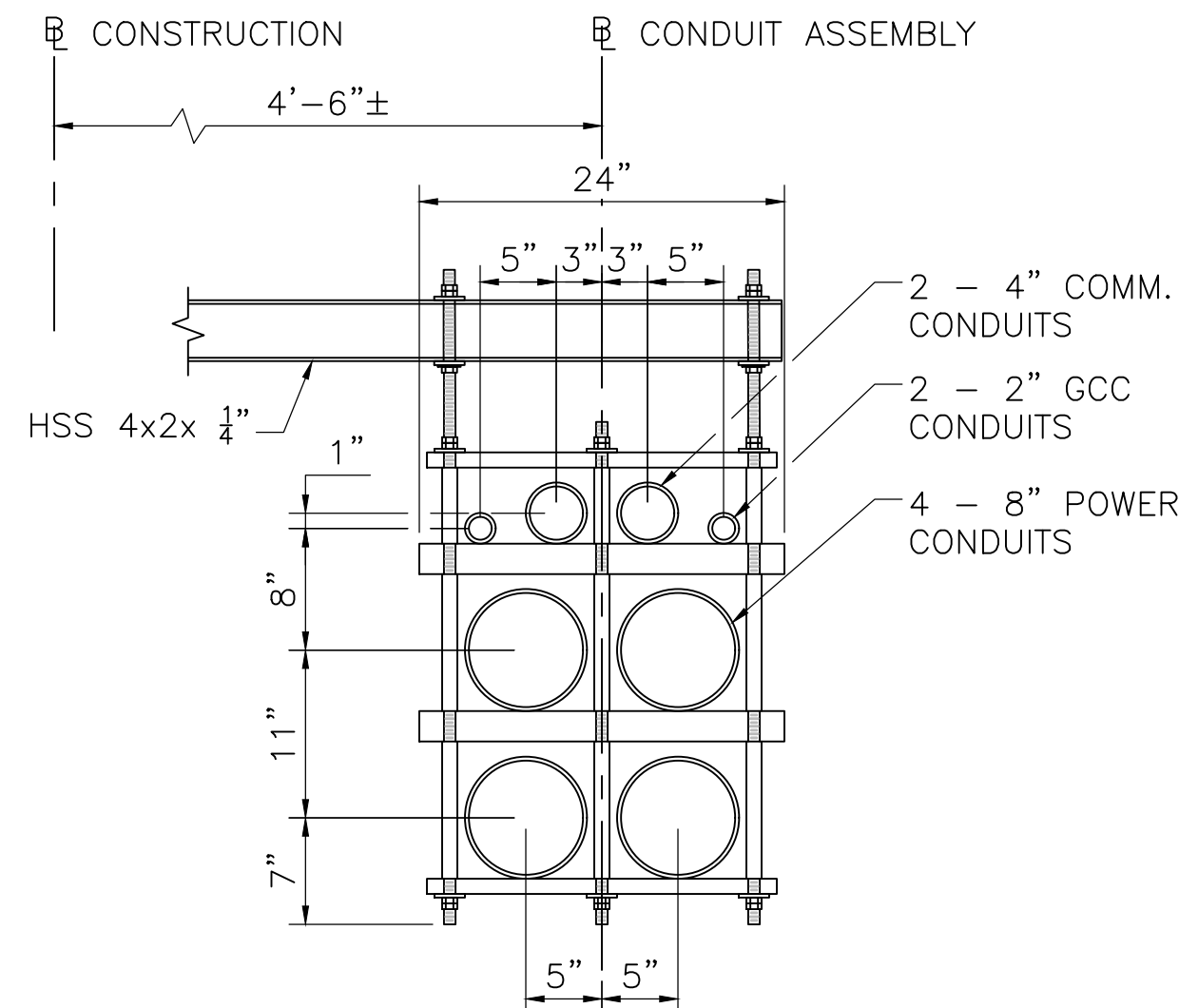
**NOTES:**

- 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.



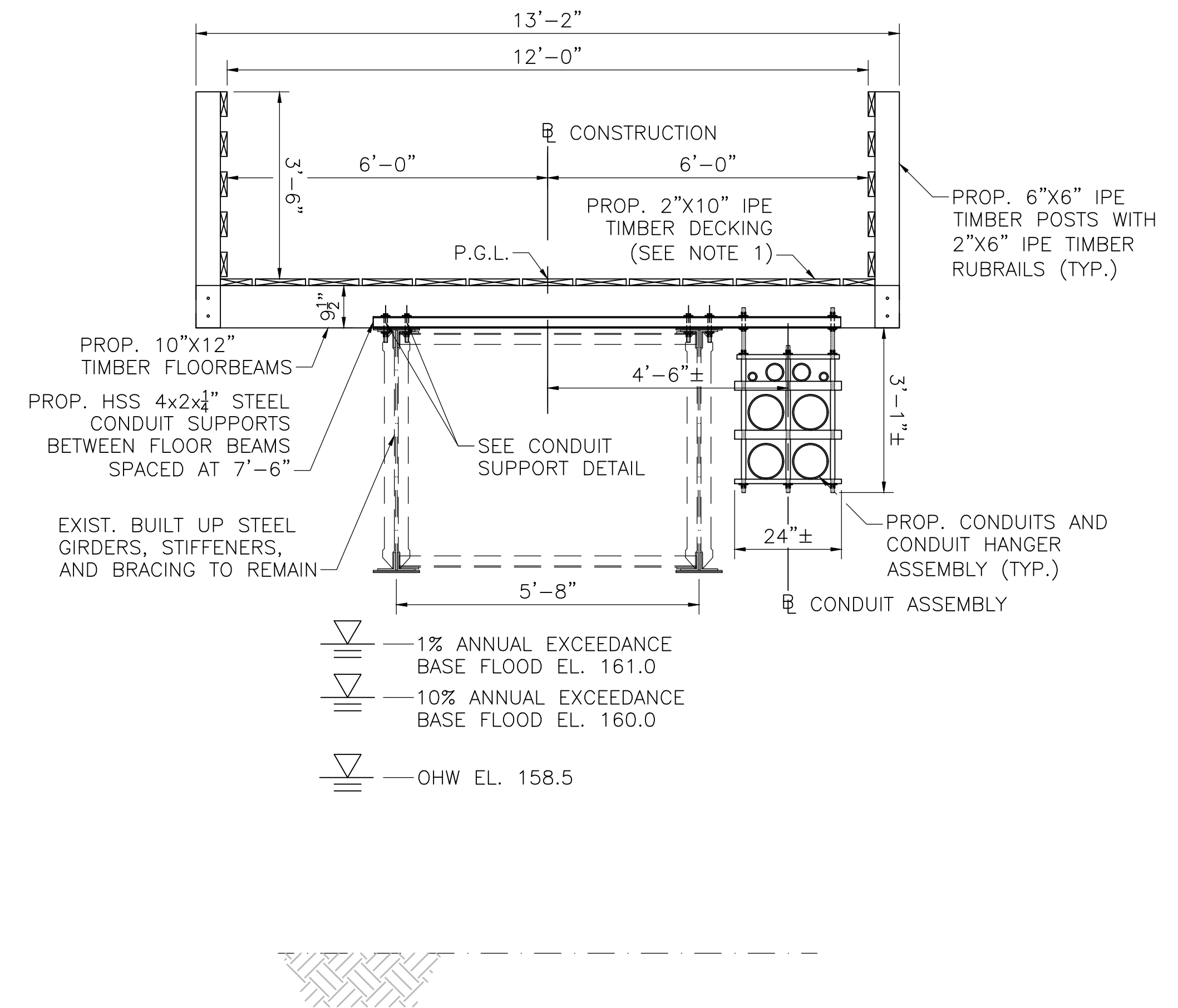
**BACKWALL CAP DETAIL**

SCALE: 1"=1'-0"



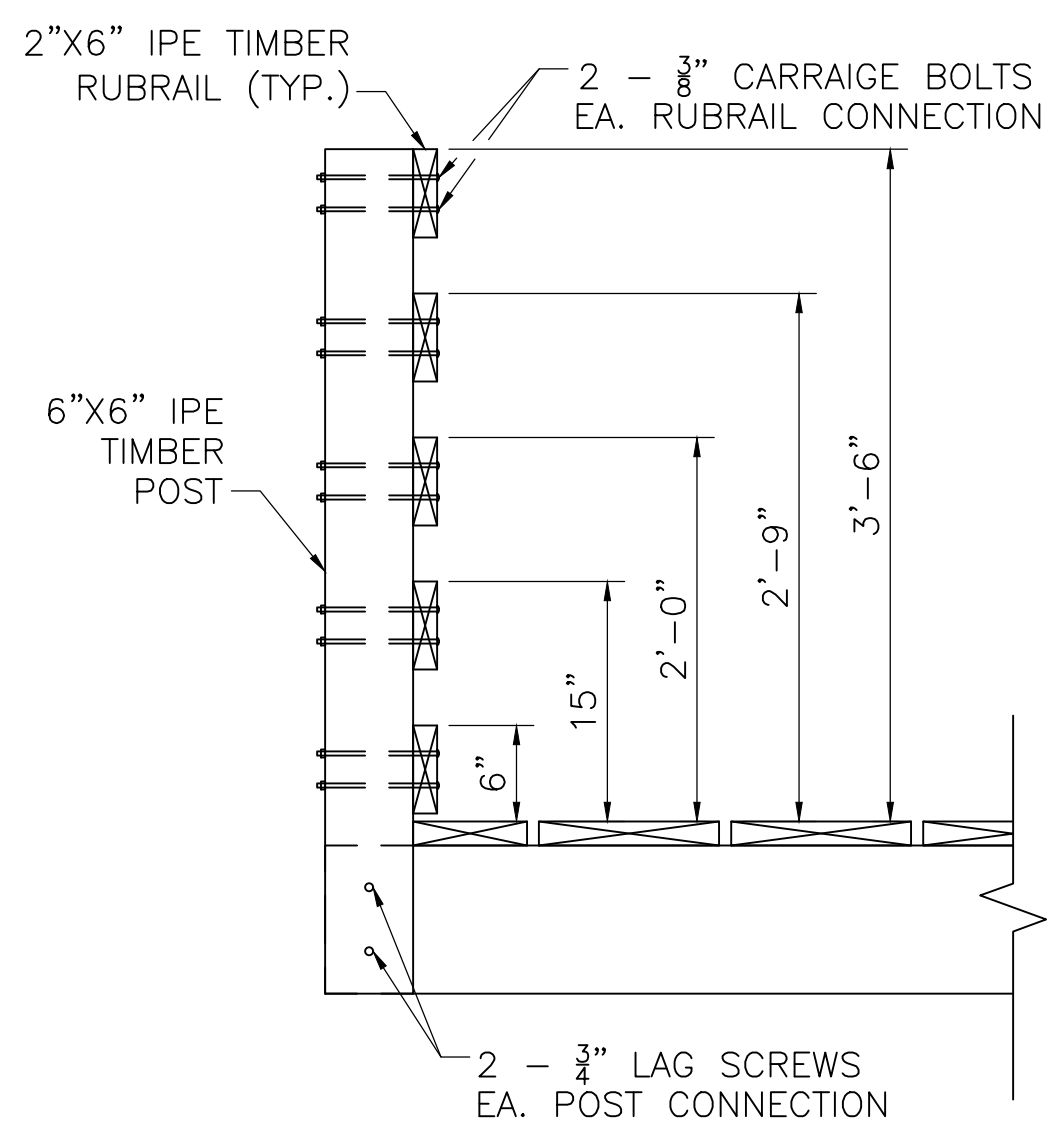
**CONDUIT ASSEMBLY DETAIL**

SCALE: 1"=1'-0"



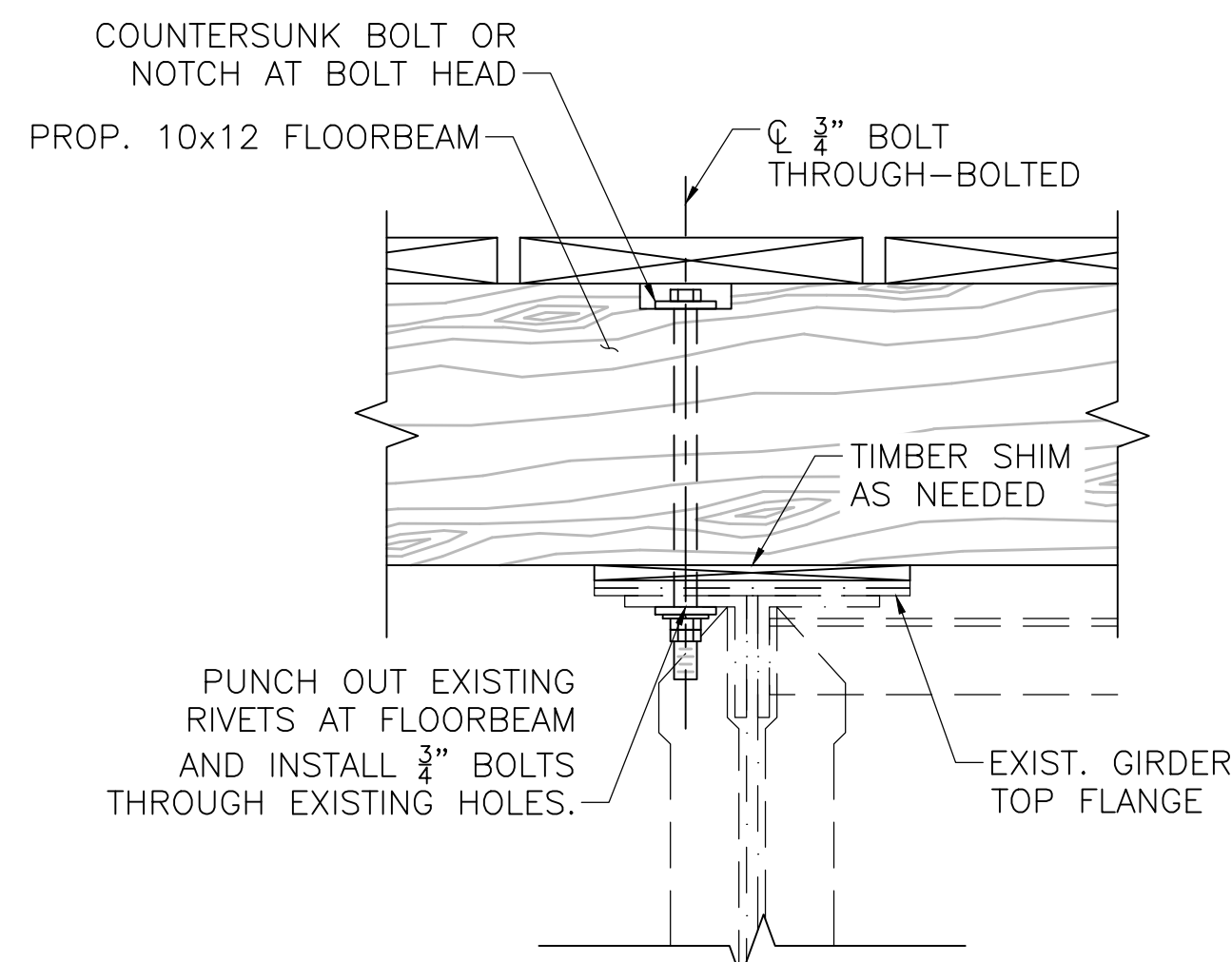
**BRIDGE TRANSVERSE SECTION**

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



**RAILING CONNECTION DETAIL**

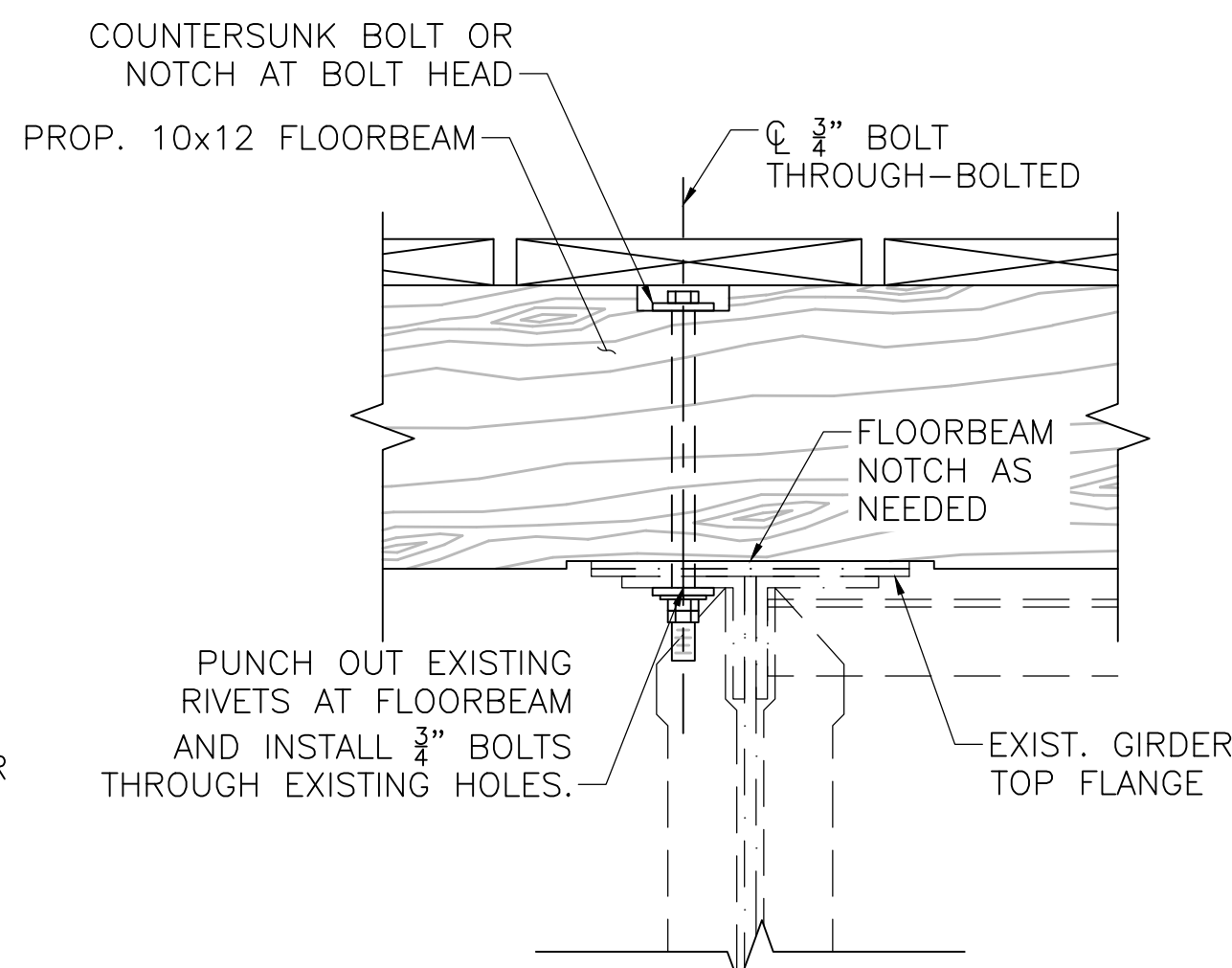
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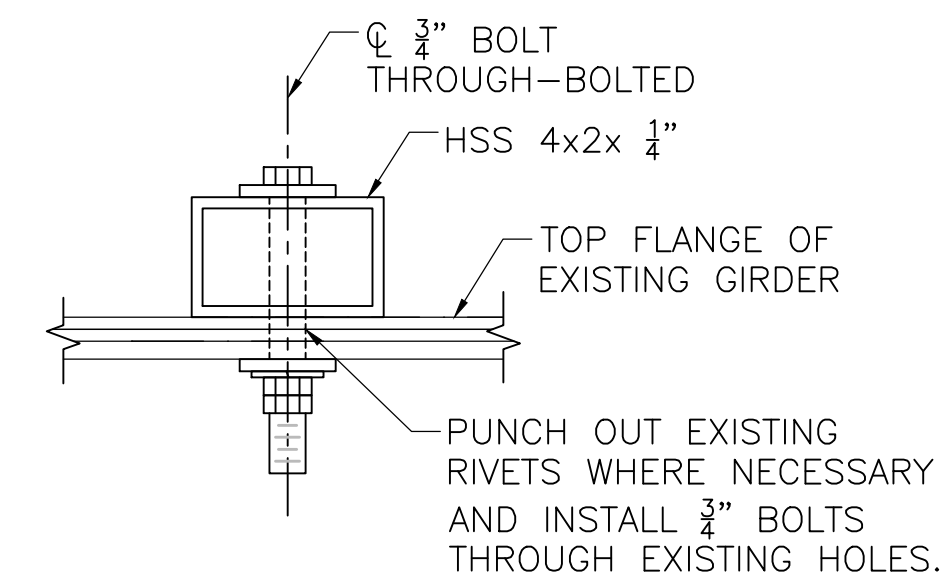
**AT BUILD-UP**

**FLOORBEAM CONNECTION DETAIL**

SCALE: 2"=1'-0"



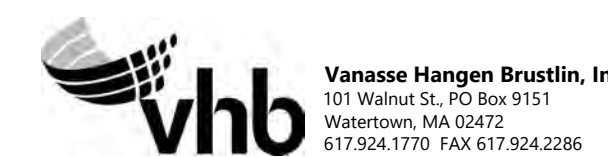
**AT CUT-OUT**



**CONDUIT SUPPORT DETAIL**

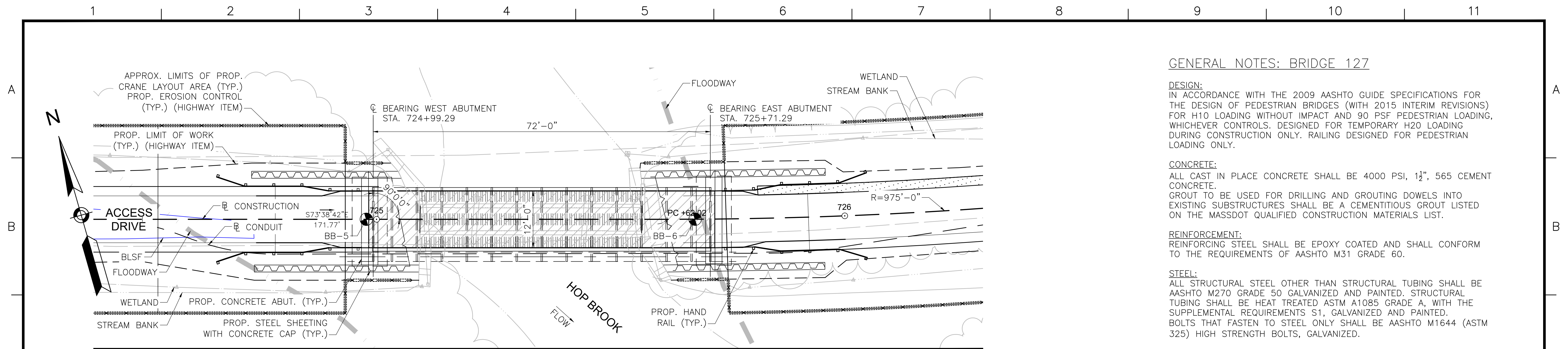
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REVISION			
N.O.	DESCRIPTION	BY	DATE
<b>EVERSOURCE</b>			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
BRIDGE S-31-017 (BRIDGE 128) - SECTION & DETAILS			
PLAN 1920F 348			
SCALE: unless noted	DATE	DRAWN	CHK'D
VARIABLES	JAN 2021	AMS	SBK
		APPR.	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.

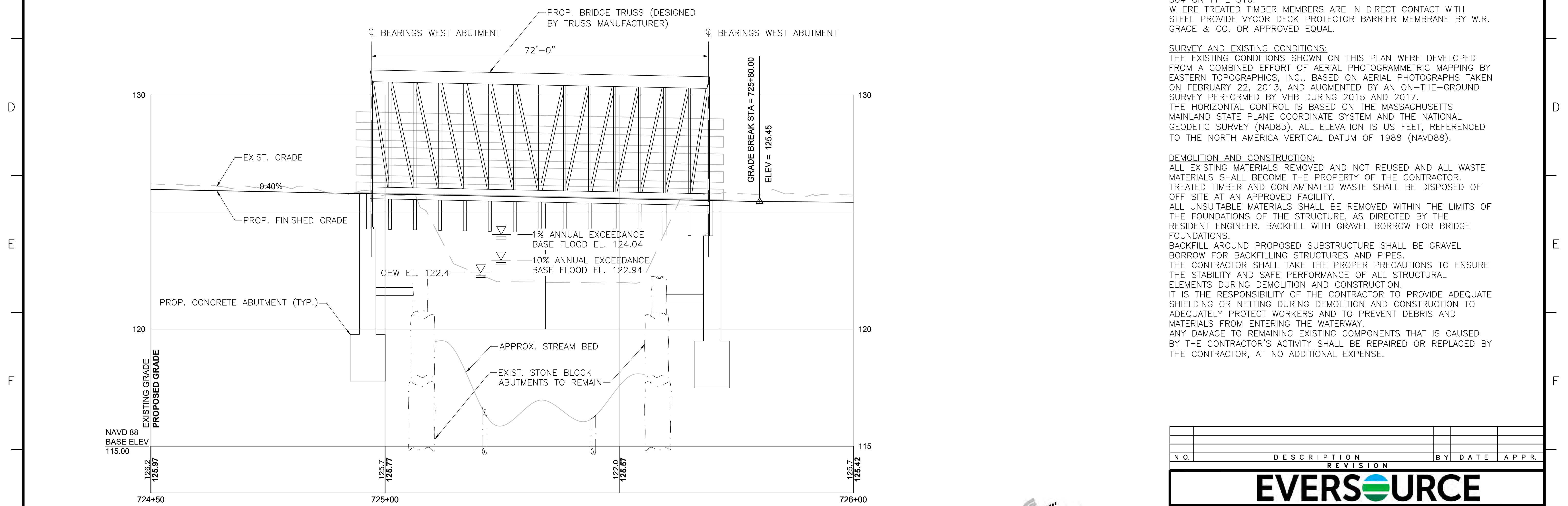
**REINFORCEMENT:**  
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

**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 OR NETTING 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				
PLAN 93 OF 348				
SCALE: unless noted H: 1"=10' V: 1"=2'		DATE DRAWN JAN 2021 AMS		APPR. SBK KGK
DRAWING NO.		REV.		



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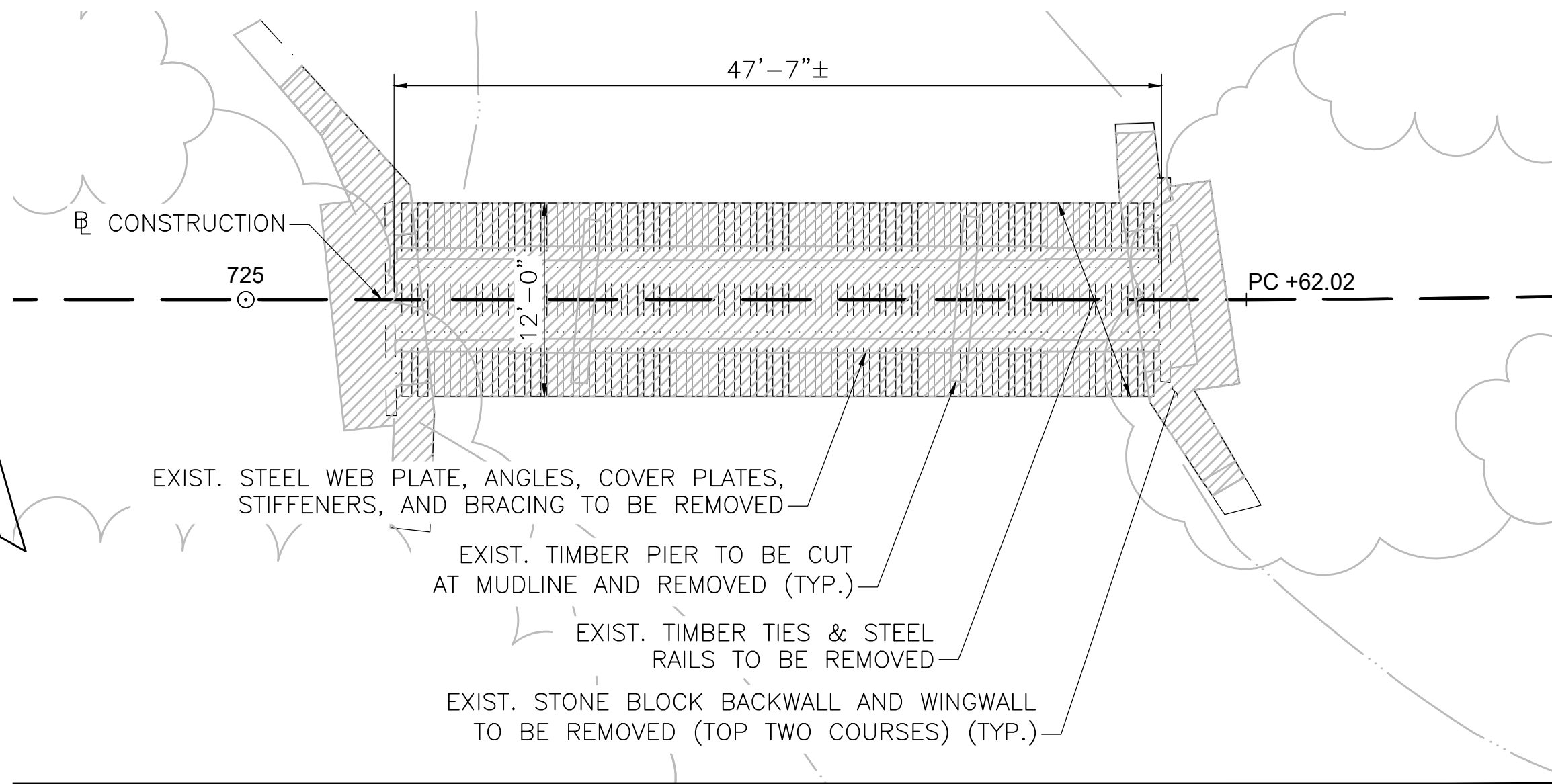
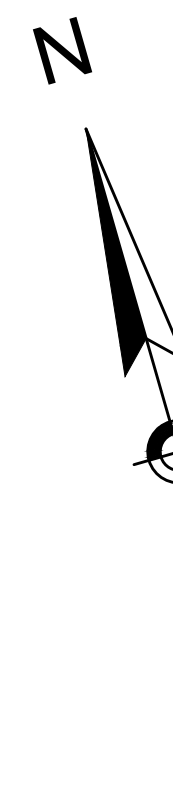
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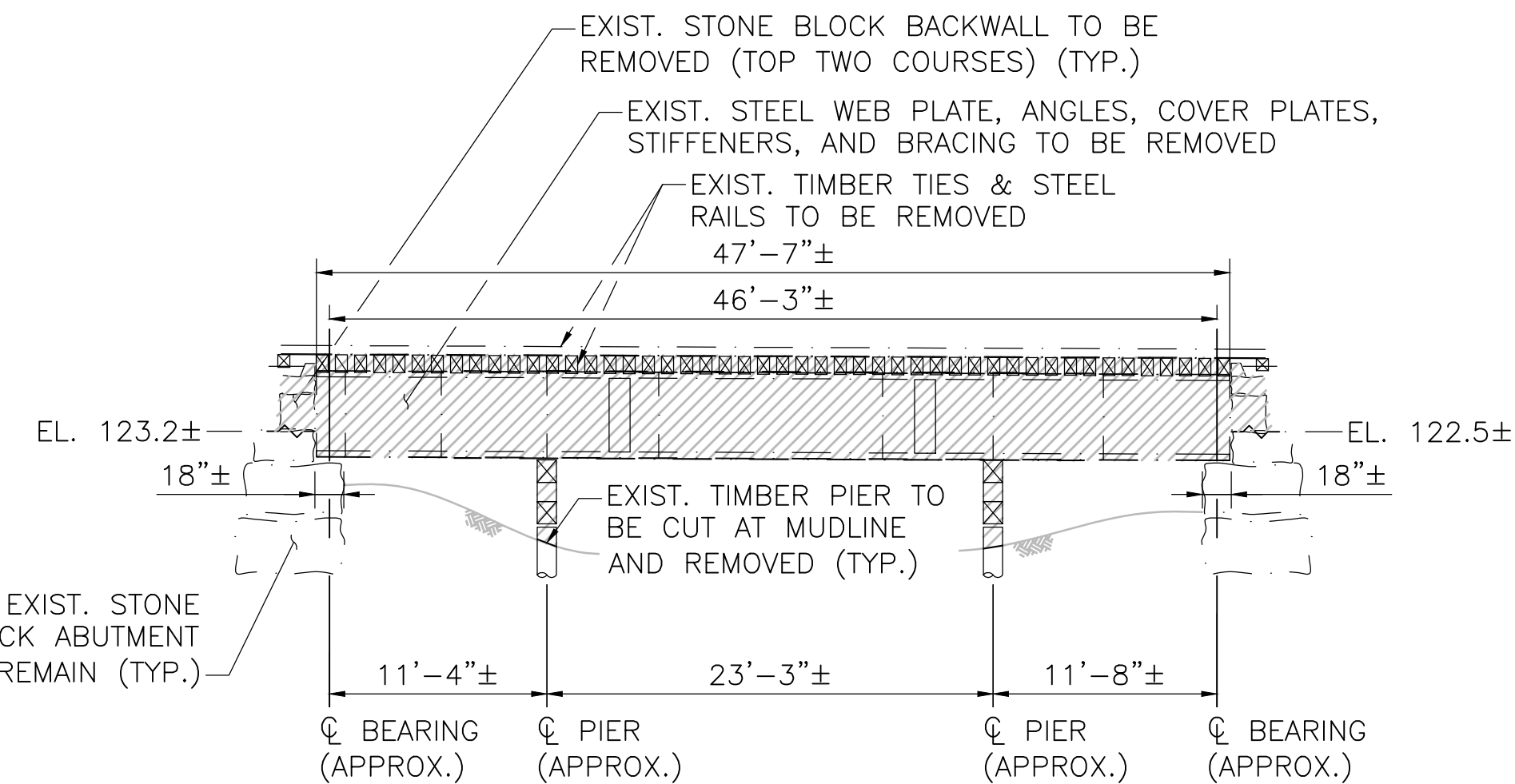
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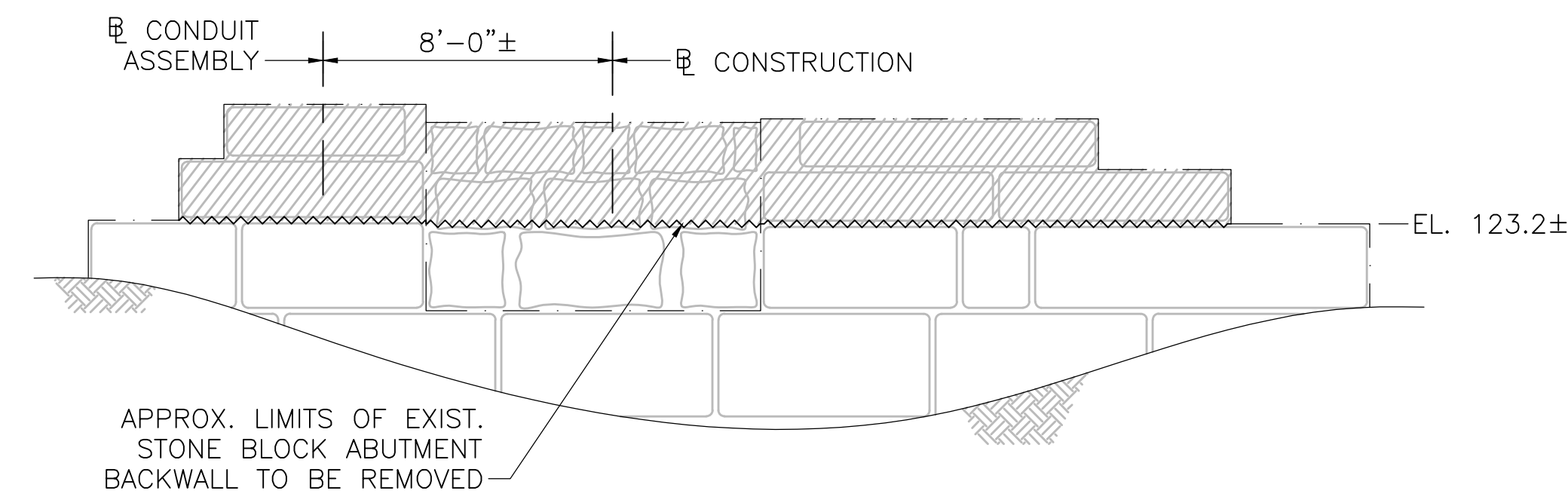
**BRIDGE PLAN**

SCALE:  $\frac{1}{8}$ "=1'-0"



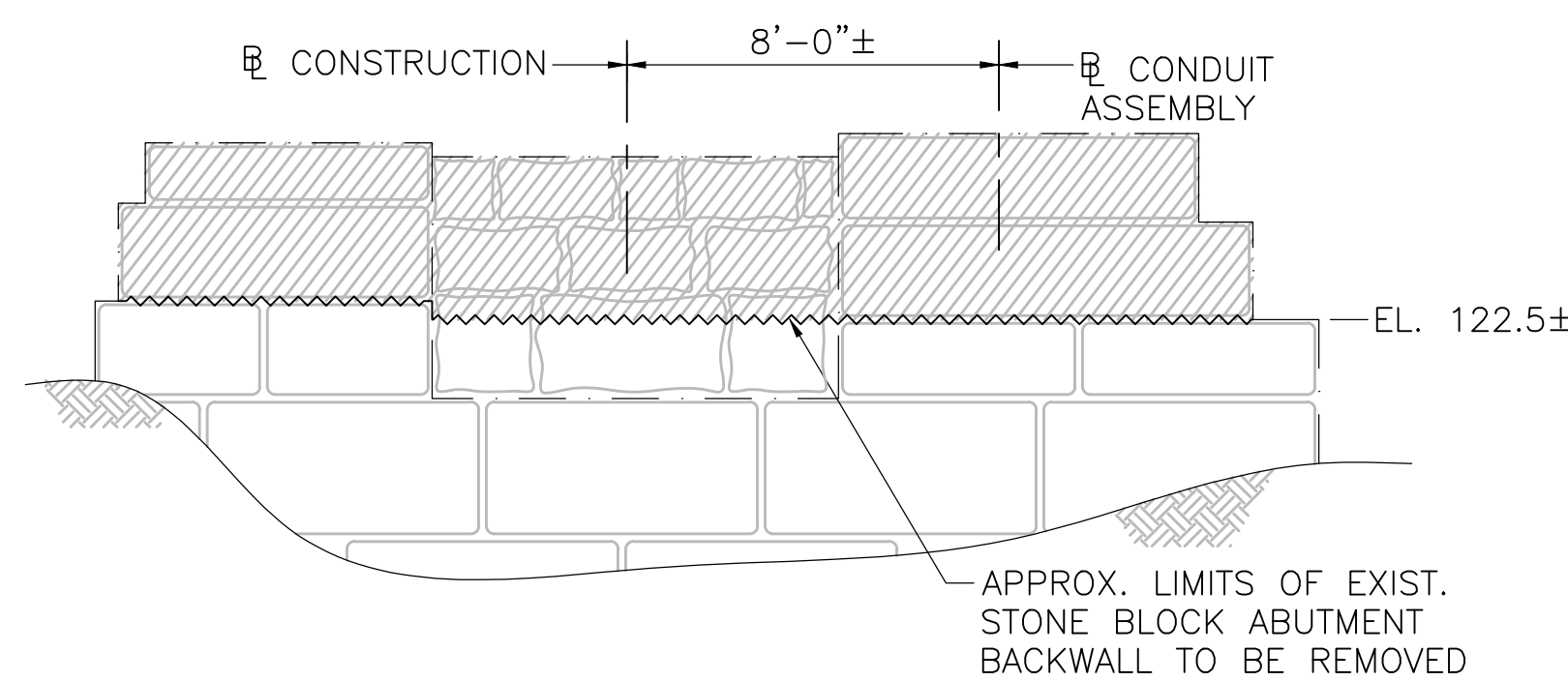
**BRIDGE ELEVATION**

SCALE:  $\frac{1}{8}$ "=1'-0"



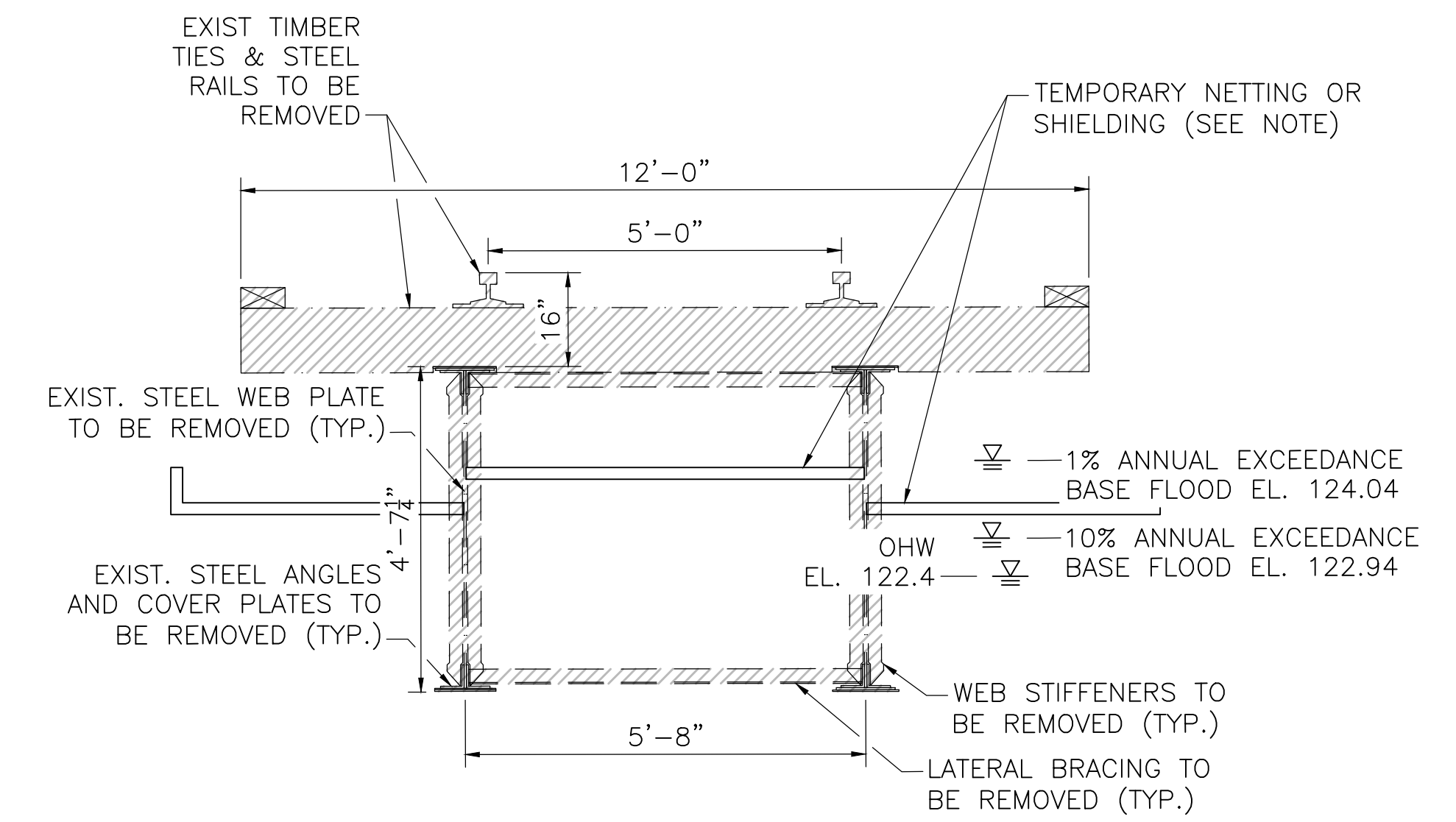
**WEST ABUTMENT ELEVATION**

SCALE:  $\frac{1}{4}$ "=1'-0"



**EAST ABUTMENT ELEVATION**

SCALE:  $\frac{1}{4}$ "=1'-0"

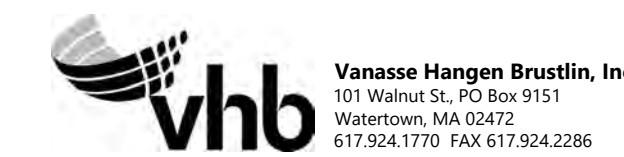


**BRIDGE TRANSVERSE SECTION**

SCALE:  $\frac{1}{2}$ "=1'-0"

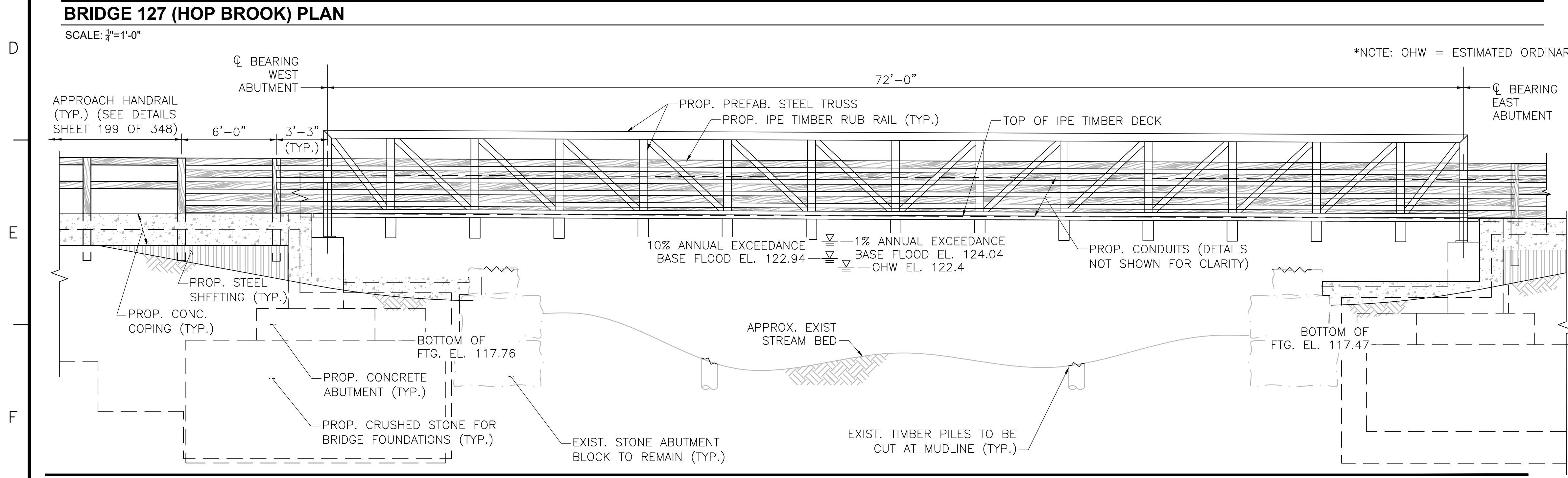
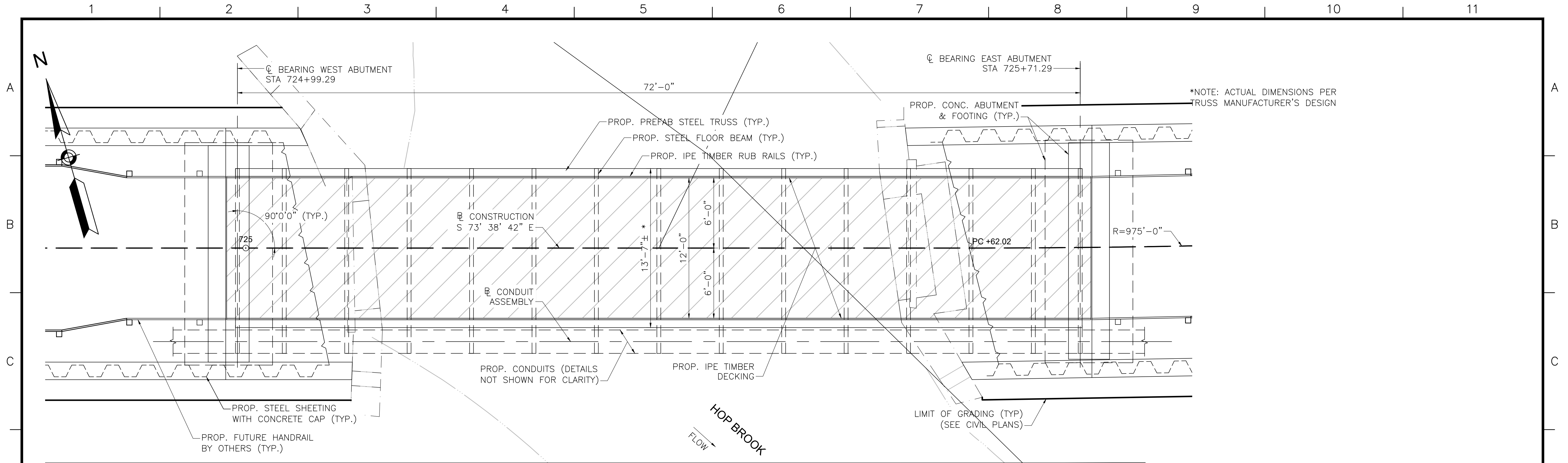
NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING OR NETTING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS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

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 96 OF 348				
SCALE: unless noted VARIES	DATE: JAN 2021	DRAWN: AMS	CHECKED: SBK	APPROVED: KGK
				DRAWING NO. REV.

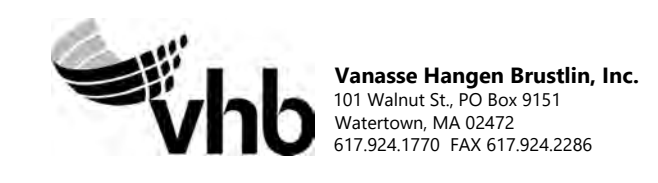


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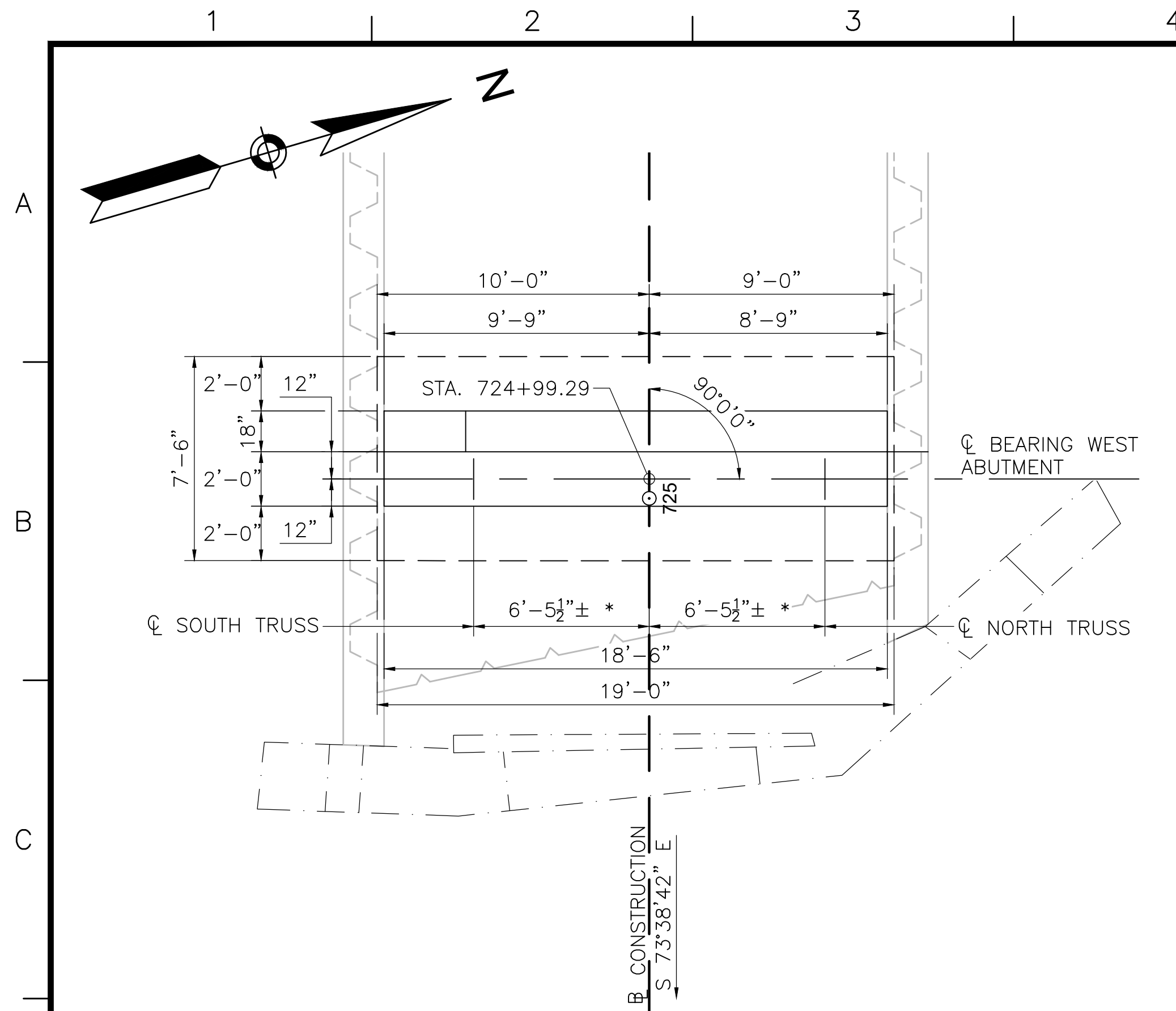




N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127, HOP BROOK) - PLAN & EL.				
PLAN 97 OF 348				
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	C H'K D. SBK	APPR. KGK
			DRAWING NO.	REV.

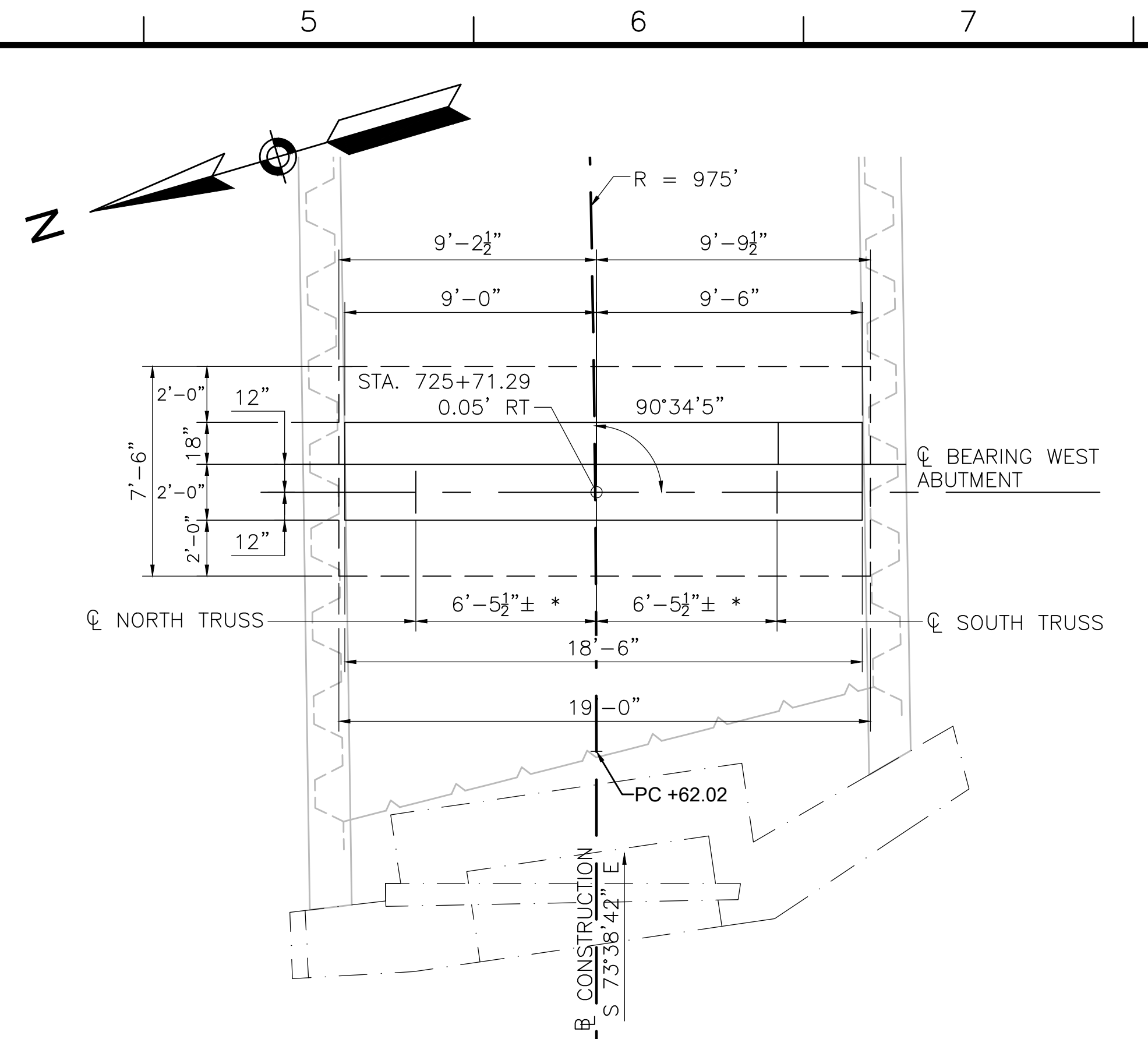






**WEST ABUTMENT PLAN**

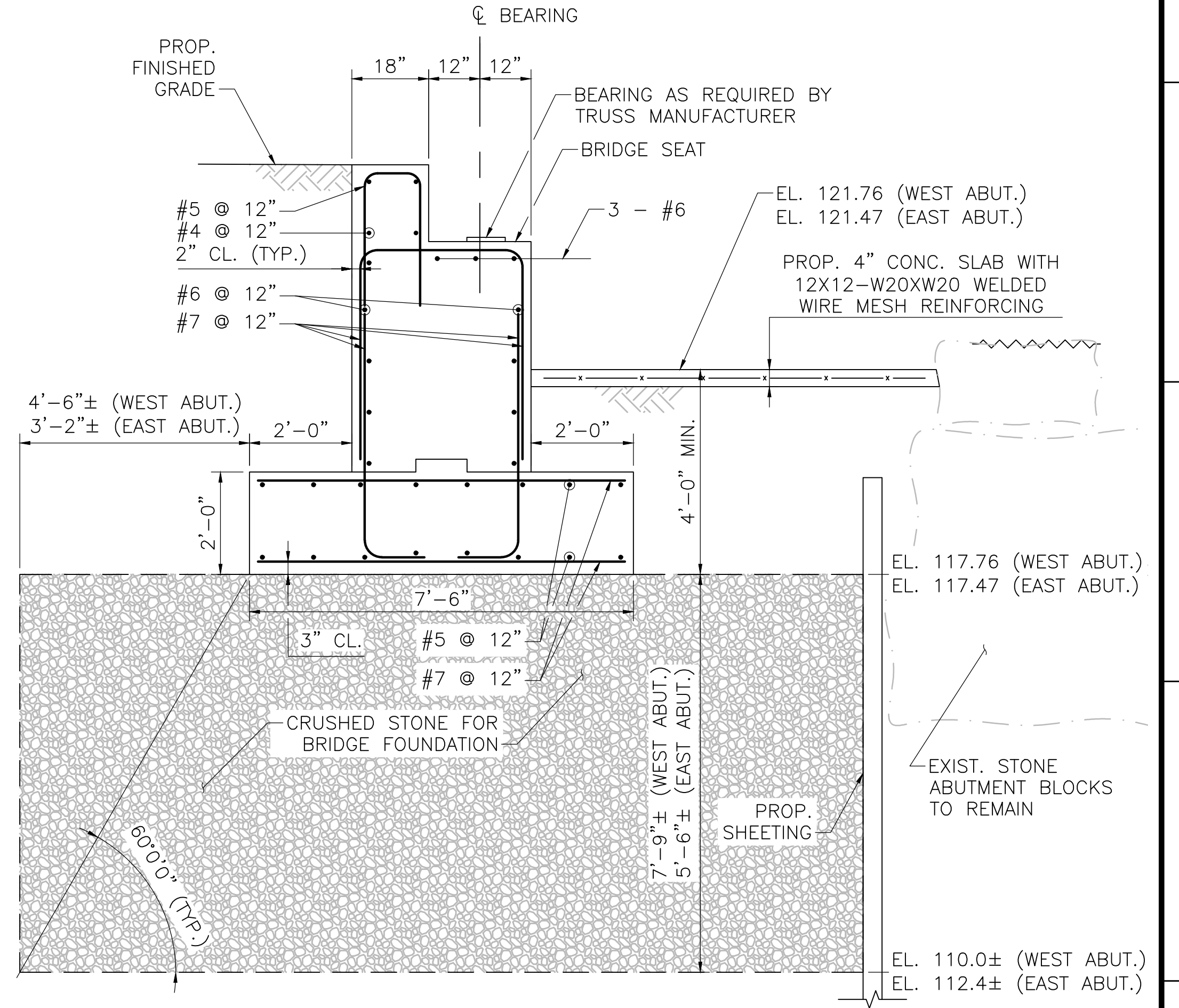
SCALE: 1/4"=1'-0"



**EAST ABUTMENT PLAN**

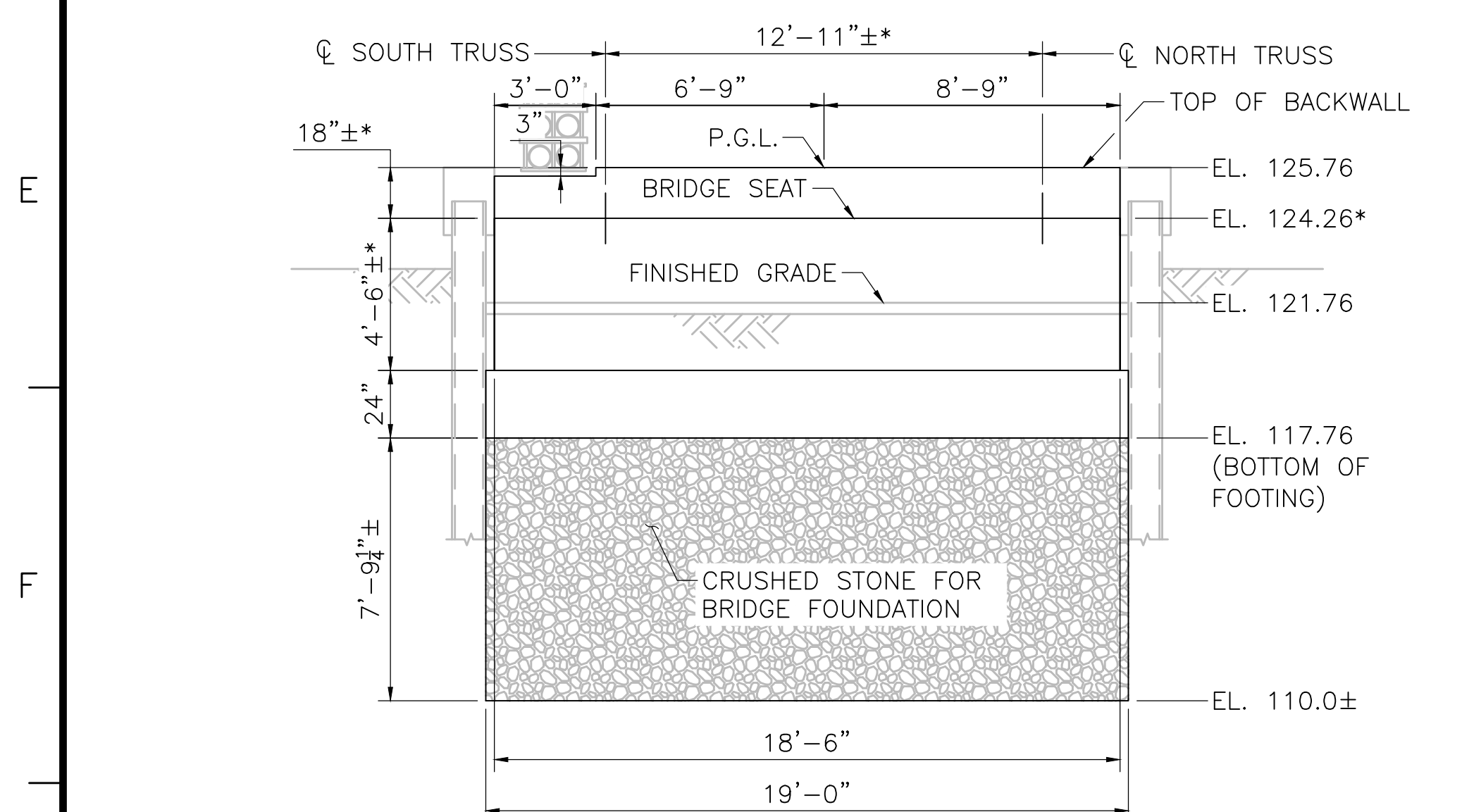
SCALE: 1/4"=1'-0"

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



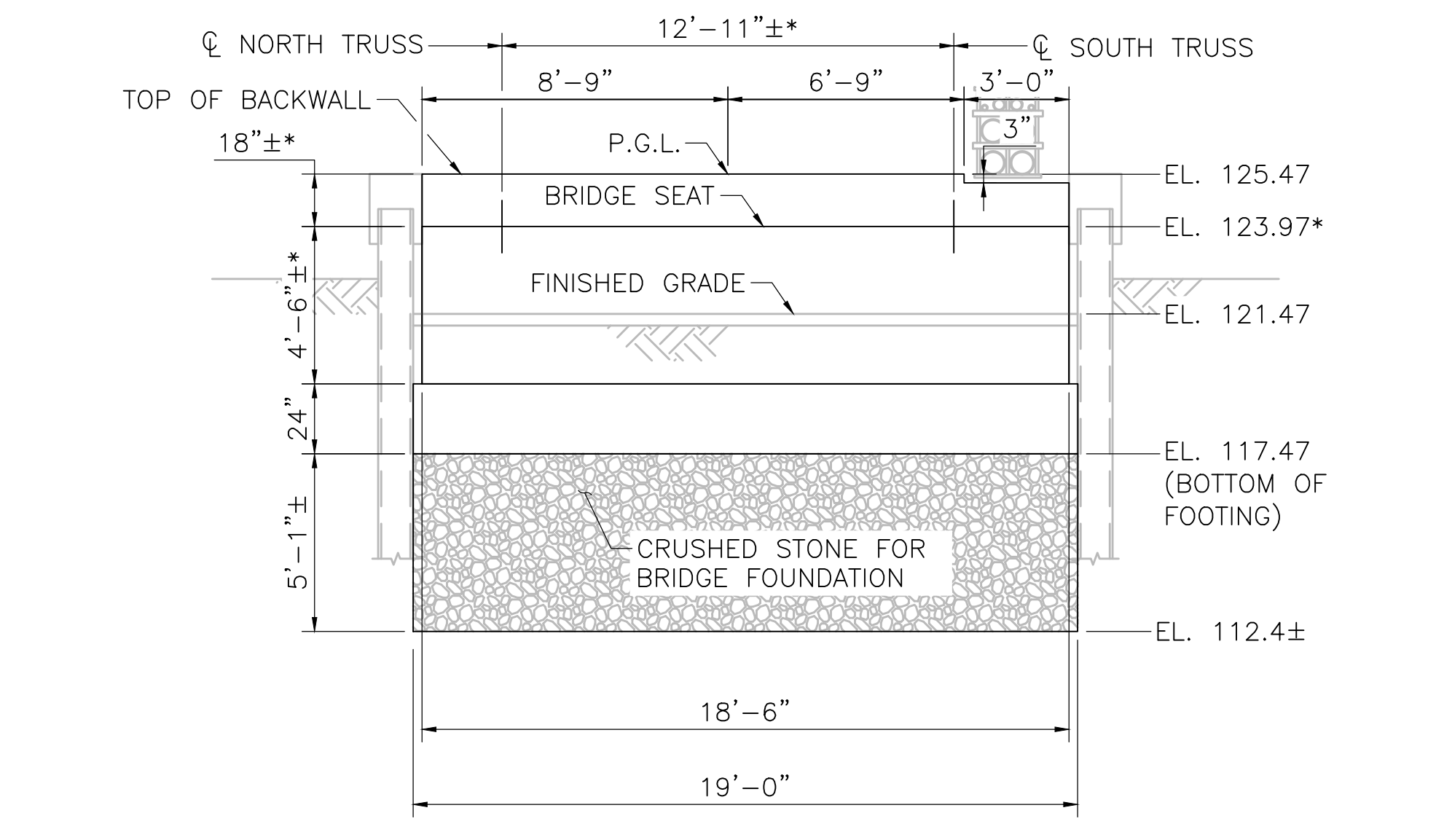
**TYPICAL ABUTMENT SECTION**

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



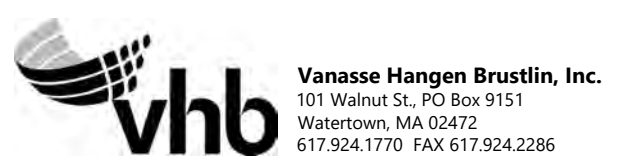
**WEST ABUTMENT ELEVATION**

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



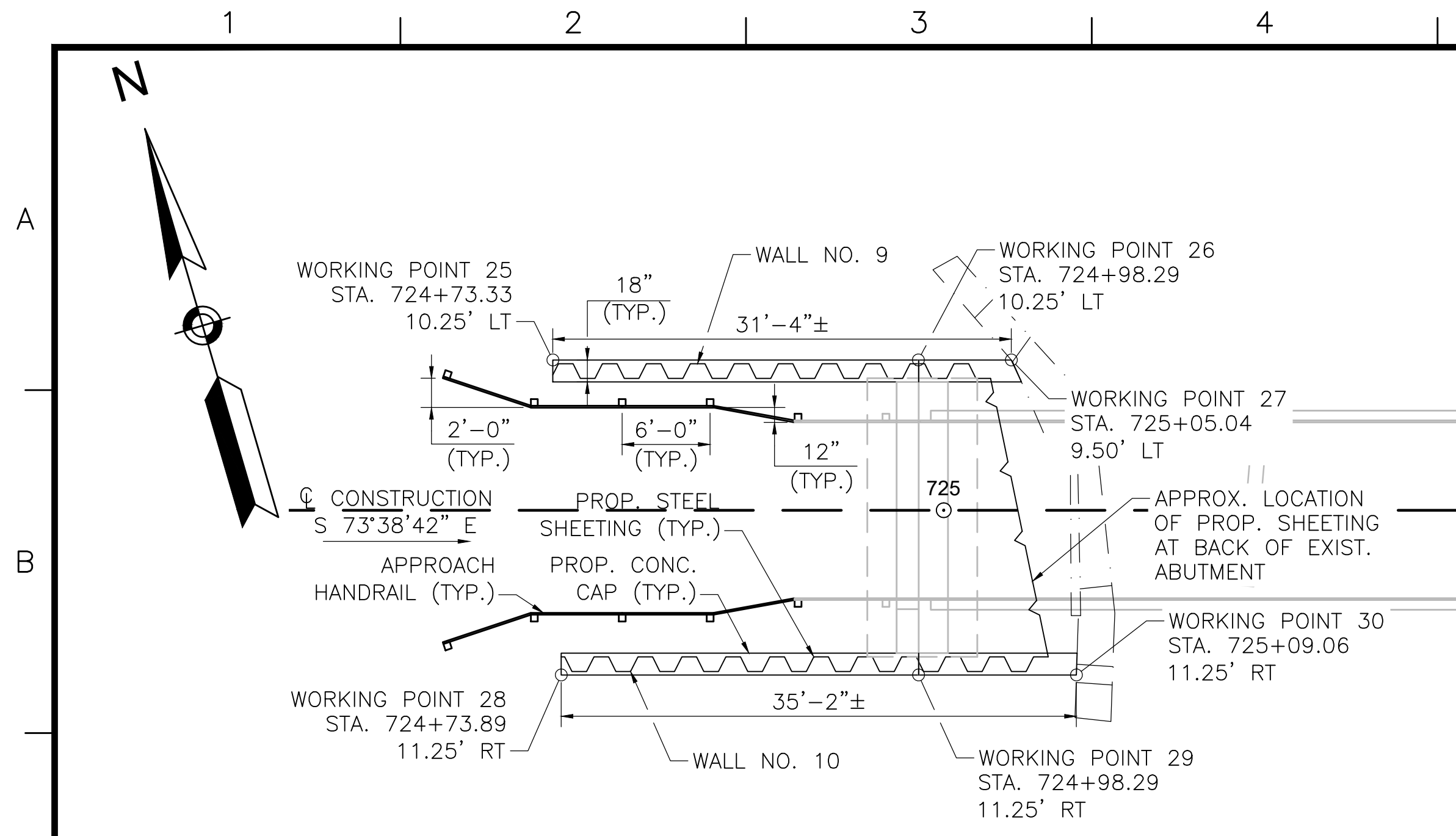
**EAST ABUTMENT ELEVATION**

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

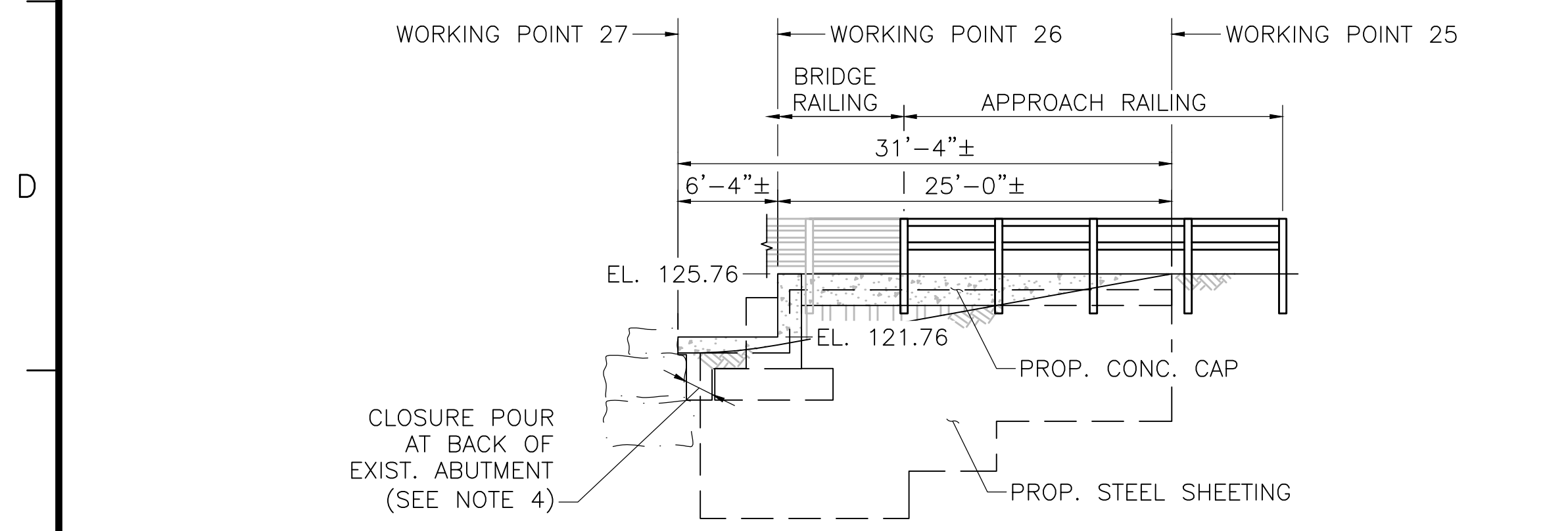


NO.	DESCRIPTION		BY	DATE	APPR.
	REVISION				
<b>EVERSOURCE</b>					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
BRIDGE S-31-016 (BRIDGE 127) - SUBSTRUCTURE DETAILS					
PLAN 98 OF 348					
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	C'H'K D. SBK	APPR. KGK	DRAWING NO. REV.

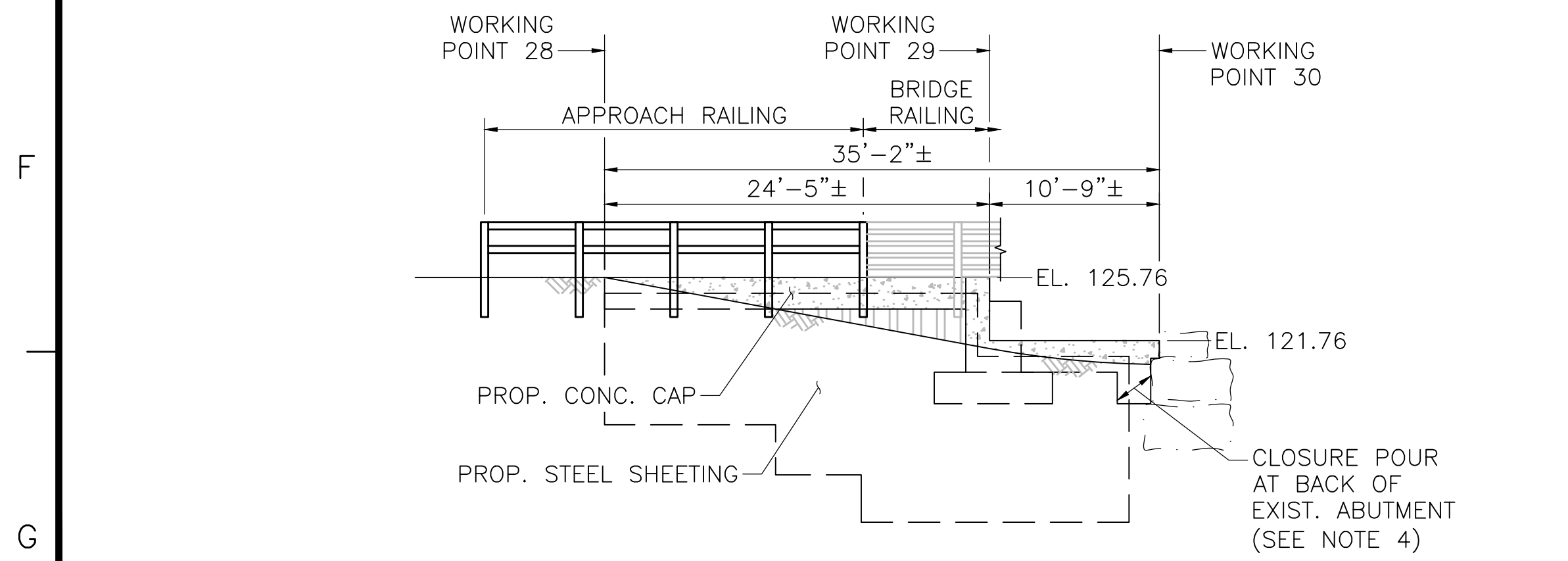




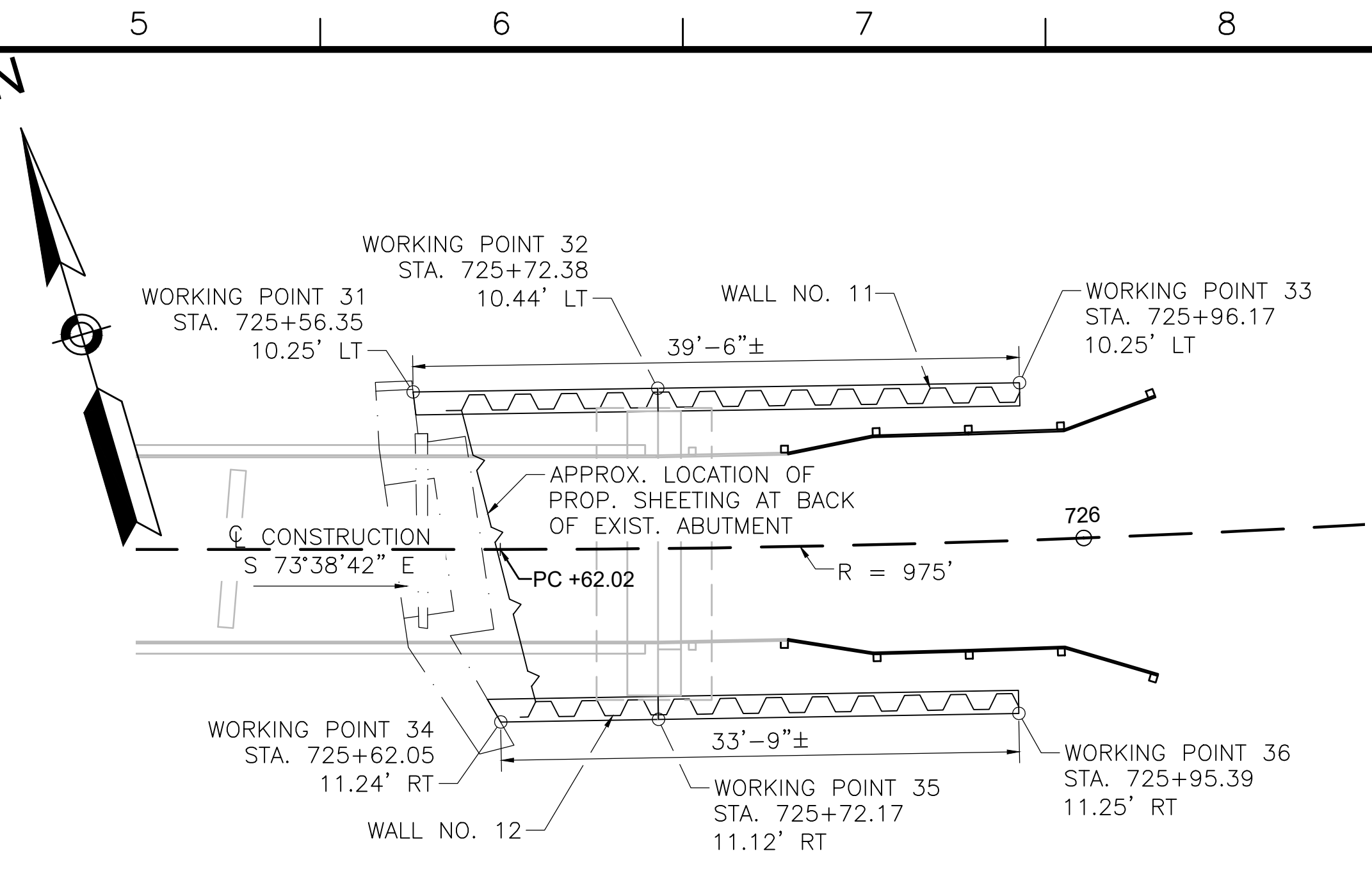
**WALL 9 & 10 SHEETING PLAN (WEST APPROACH)**  
SCALE: 1/4"=1'-0"



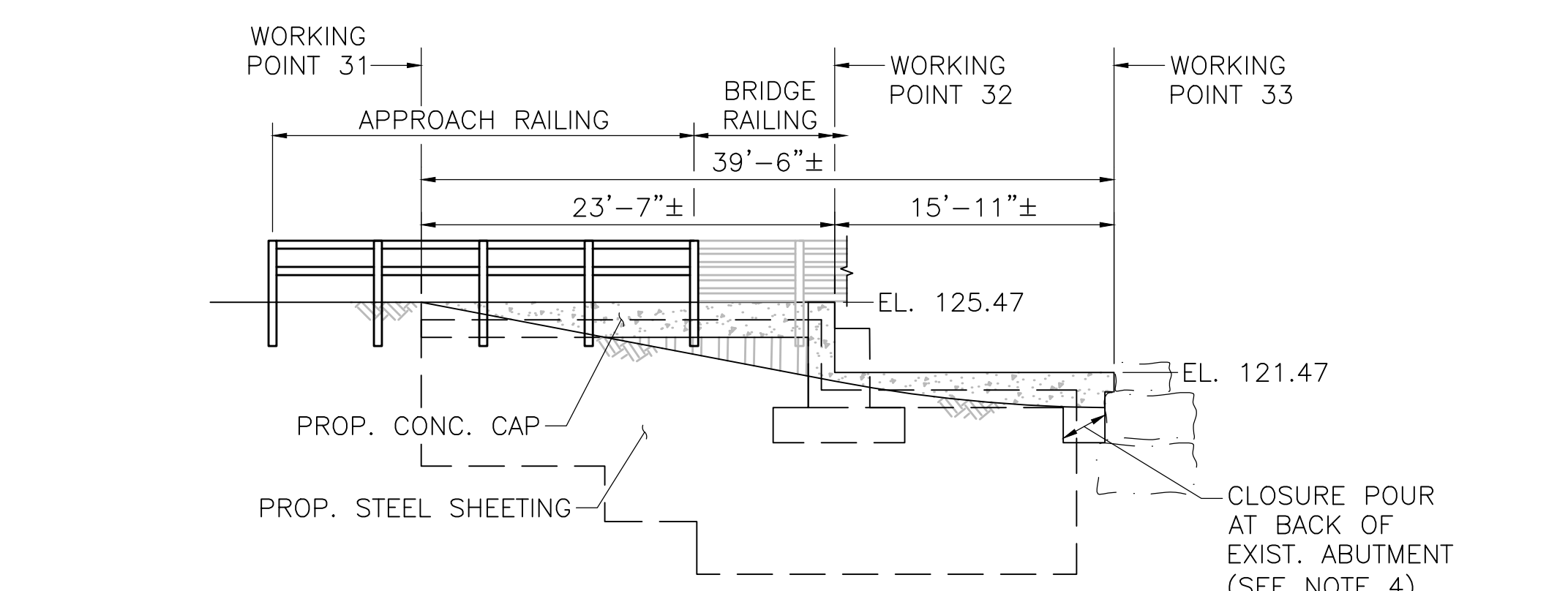
**WALL 9 ELEVATION (WEST APPROACH NORTH SHEETING WALL)**  
SCALE: 1/4"=1'-0"



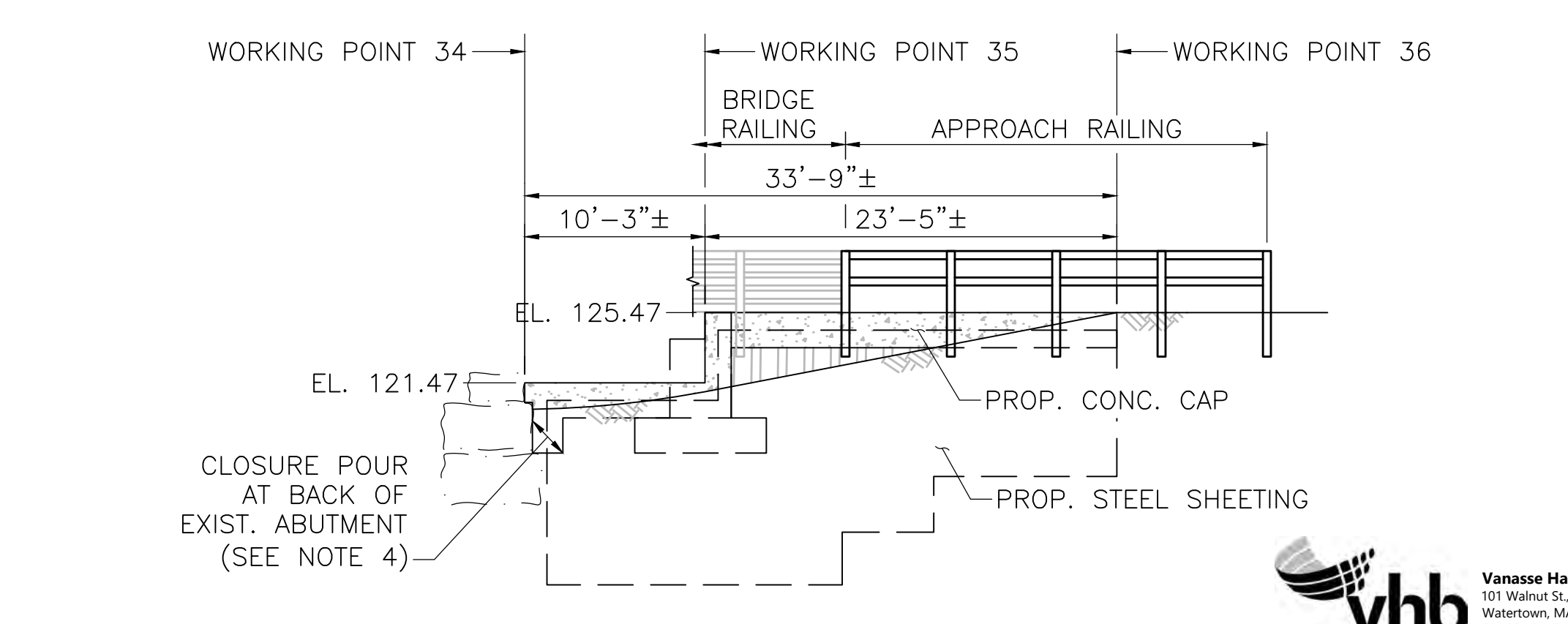
**WALL 10 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)**  
SCALE: 1/4"=1'-0"



**WALL 11 & 12 SHEETING PLAN (EAST APPROACH)**  
SCALE: 1/4"=1'-0"



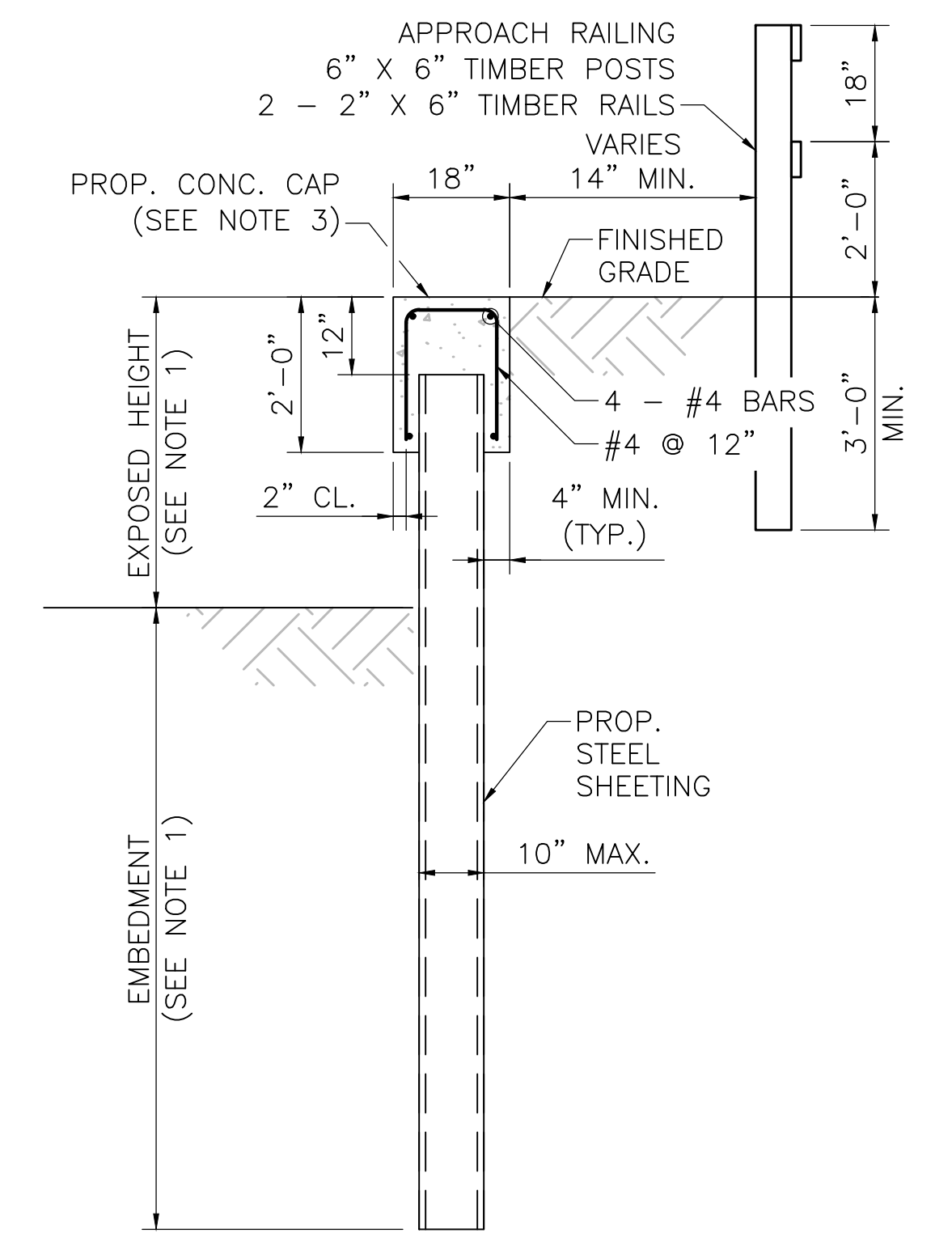
**WALL 11 ELEVATION (EAST APPROACH NORTH SHEETING WALL)**  
SCALE: 1/4"=1'-0"



**WALL 12 ELEVATION (EAST APPROACH SOUTH SHEETING WALL)**  
SCALE: 1/4"=1'-0"

**NOTES:**

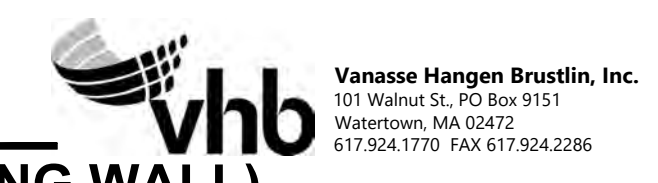
1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS ( $S_x$ ) OF 7.08 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 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.



**TYPICAL SHEETING SECTION**  
SCALE: 1/2"=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.)

N.O.	DESCRIPTION	BY	DATE	APPR.
<b>EVERSOURCE</b>				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127) - SHEETING PLAN				
PLAN 199 OF 348				
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	CHECKED SBK	APPROVED KGG
DRAWING NO.				REV.





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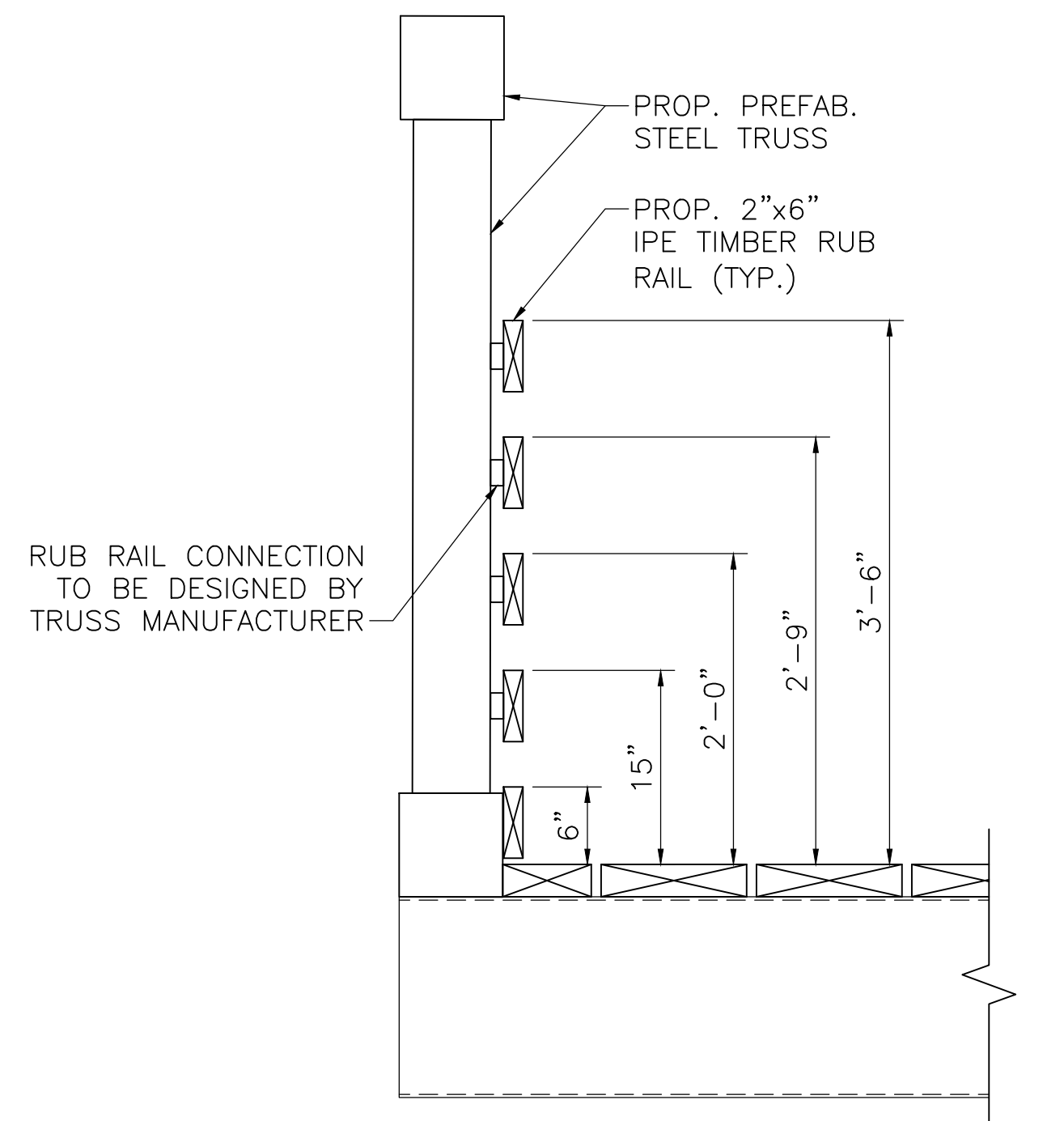
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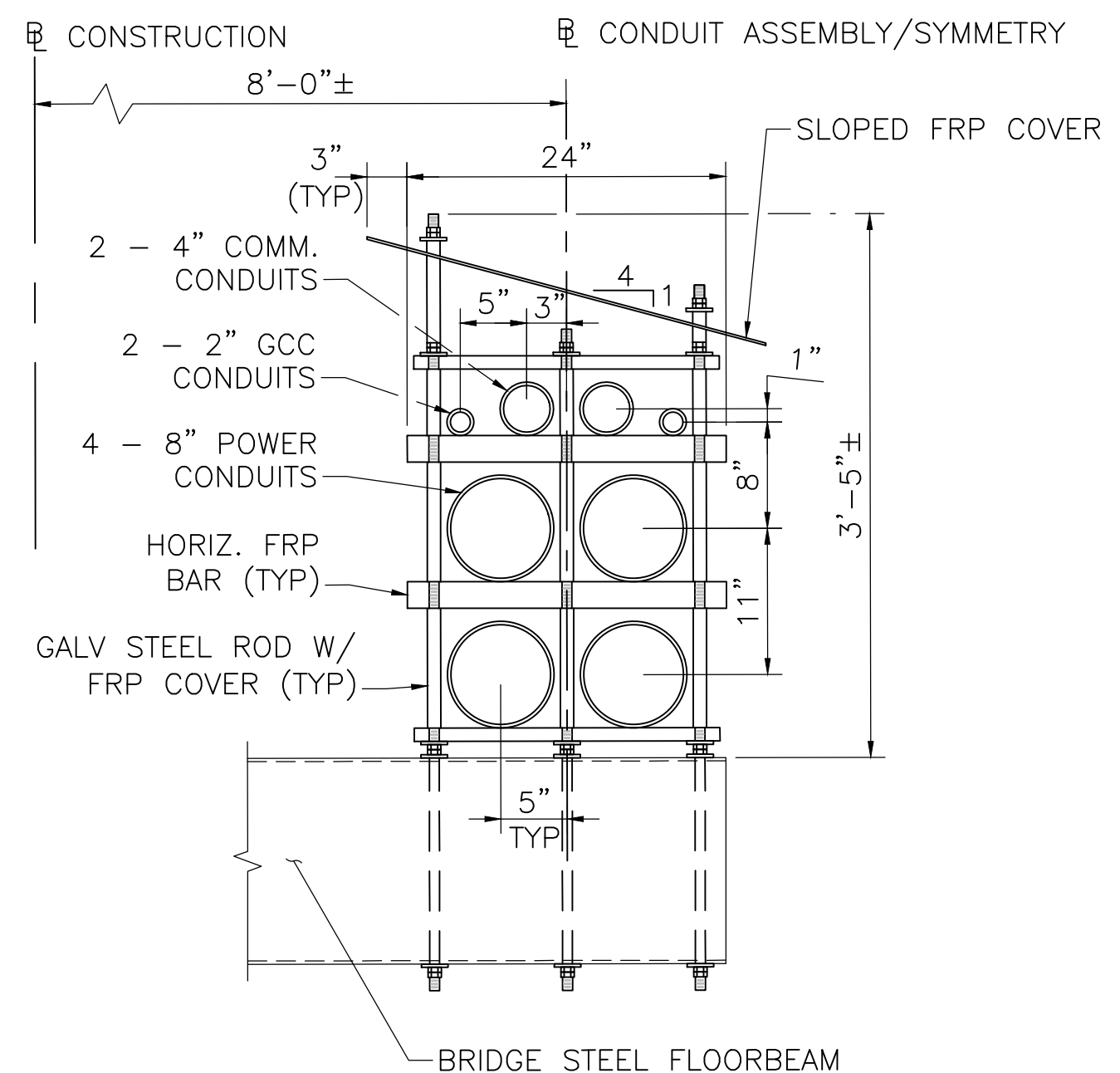
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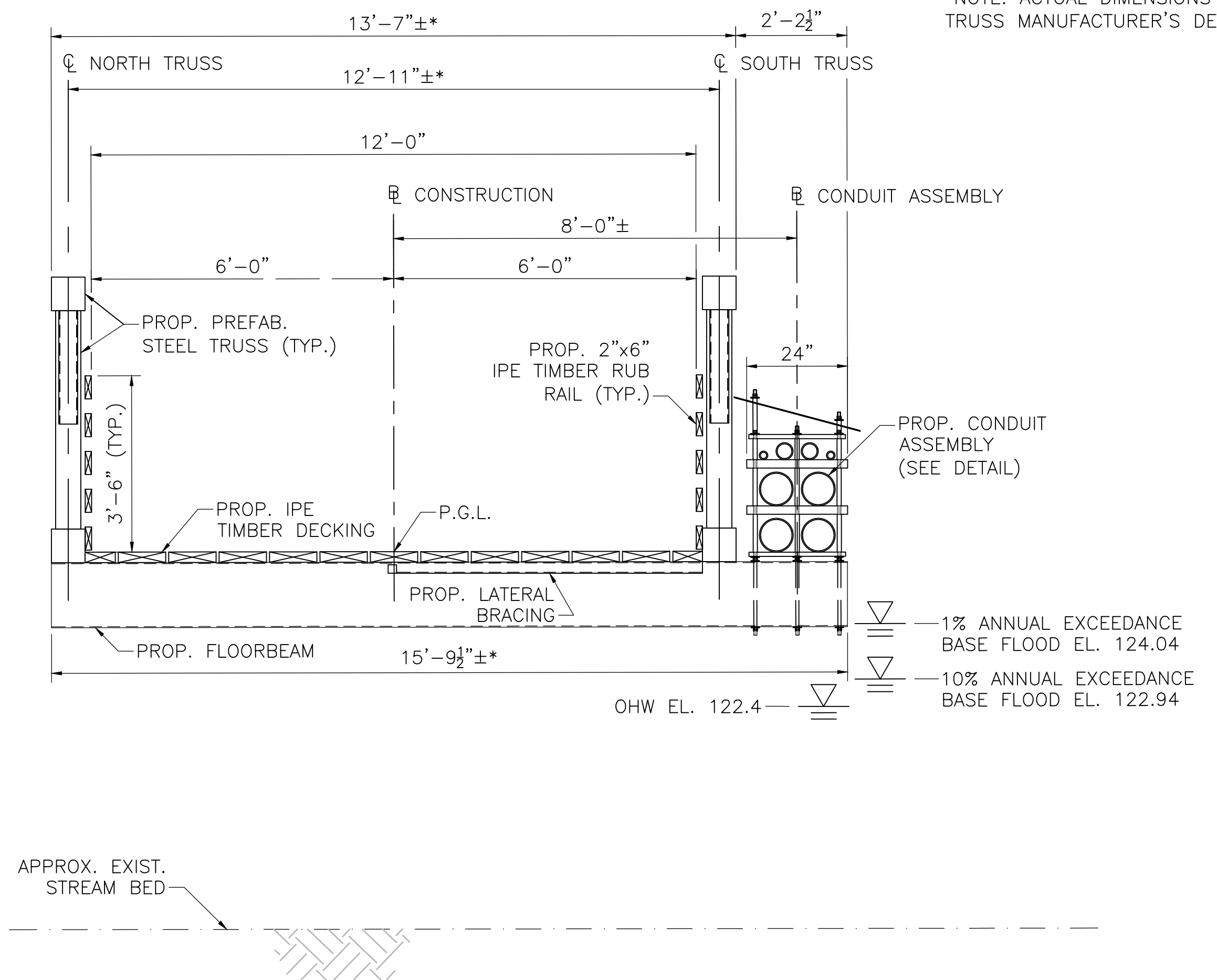
**RAILING CONNECTION DETAIL**

SCALE: 1"=1'-0"



**CONDUIT ASSEMBLY DETAIL**

SCALE: 1"=1'-0"



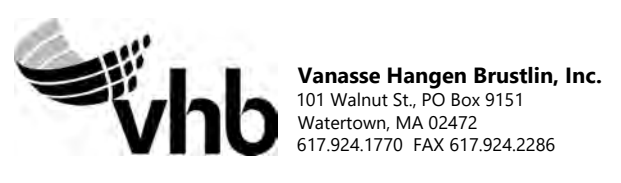
**BRIDGE TRANSVERSE SECTION**

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

**NOTES:**

- TRUSS SHALL BE DESIGNED FOR TEMPORARY H2O 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 200 OF 348				
SCALE: unless noted VARIES	DATE JAN 2021	DRAWN AMS	CHECKED SBK	APPROVED KGK
				DRAWING NO. REV. #



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