

EVERSOURCE

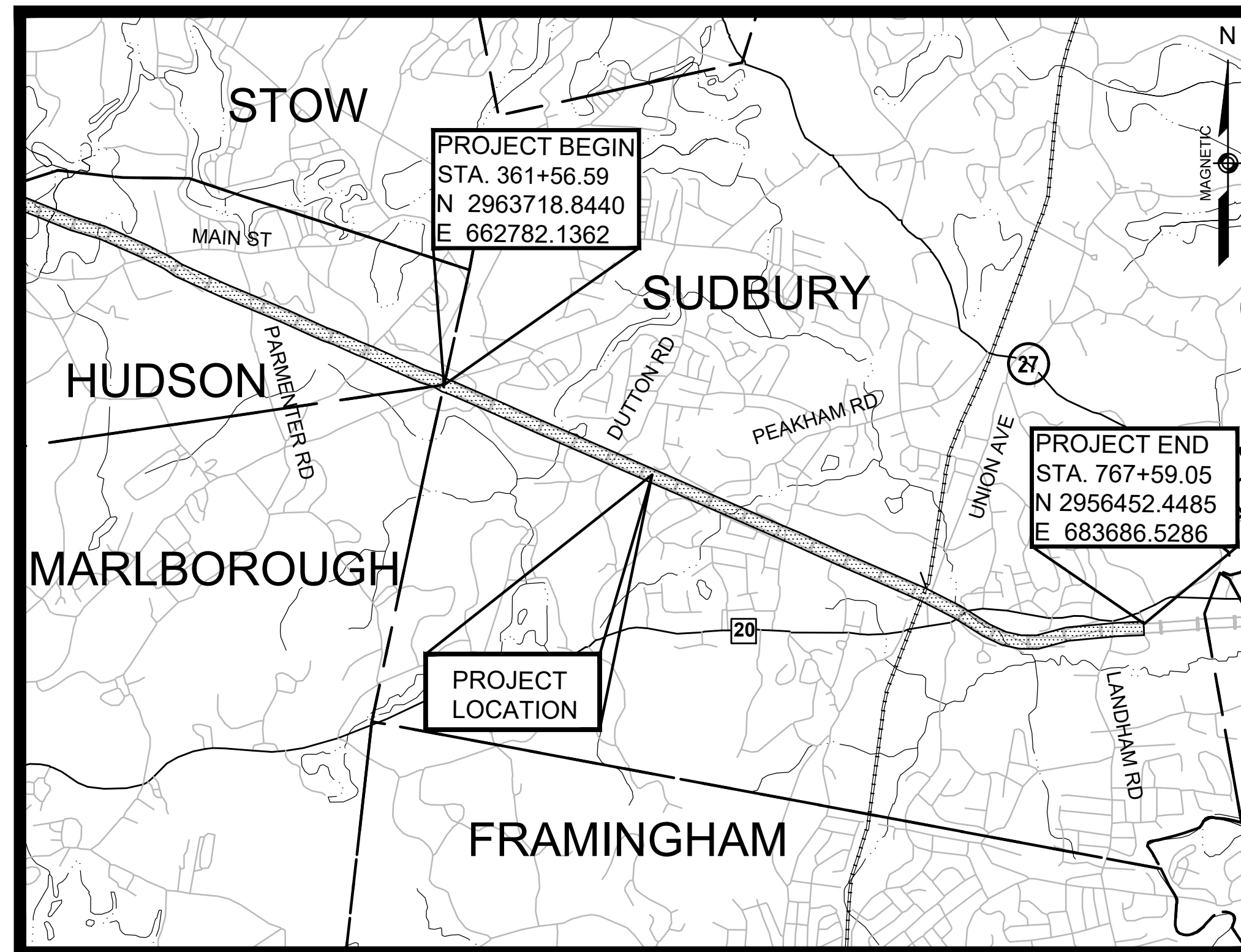
SUDBURY-HUDSON

TRANSMISSION RELIABILITY PROJECT

SUDBURY NOTICE OF INTENT PLANS

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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.



Mark Shamou
 ENGINEER
 DATE 01/07/2021



Kenneth Staffier
 ENGINEER
 SHEETS 167-168
 DATE 2021.01.07
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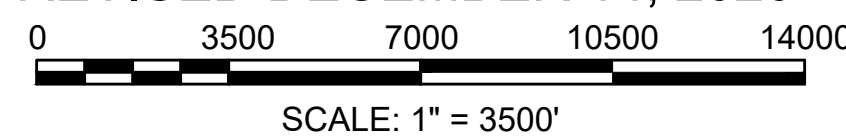


Shanta B. Keller
 ENGINEER
 SHEETS 188-200
 DATE 1/7/2021



VANASSE HANGEN BRUSTLIN, INC.
 WATERTOWN, MASSACHUSETTS

ORIGINALLY SUBMITTED MARCH 5, 2020
 REVISED JULY 30, 2020
 REVISED OCTOBER 21, 2020
 REVISED DECEMBER 14, 2020



SCALE: 1" = 3500'

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TITLE SHEET & INDEX				
PLAN 1 OF 348				
SCALE: unless noted 1"=3500'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
				DRAWING NO. REV.

GENERAL SYMBOLS		GENERAL SYMBOLS (cont.)		PAVEMENT MARKINGS SYMBOLS		GENERAL NOTES:	
EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
						1.	THE PROPERTY LINES SHOWN ON THIS PLAN OF THE PARCELS AT 44 FOREST AVENUE IN HUDSON, 163 BOSTON POST ROAD IN SUDBURY AND THE FORMER RAILROAD RIGHT-OF-WAY ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN 2015 AND FROM DEEDS AND PLANS OF RECORD.
						2.	THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON FEBRUARY 22, 2013, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING 2015 AND 2017.
						3.	THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).
						4.	THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
						5.	THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND INFORMATION OF RECORD. THEY HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
						6.	THE DELINEATED WETLANDS SHOWN ON THIS PLAN WERE FLAGGED BY THE VHB ENVIRONMENTAL DEPARTMENT AND FIELD SURVEYED BY THE VHB SURVEY DEPARTMENT IN SEPTEMBER AND OCTOBER 2017 AND WERE UPDATED IN MAY 2018 (SUDBURY ONLY).
						7.	THE APPROXIMATE WETLANDS AND STREAMS, AND THEIR ASSOCIATED BUFFERS AND RIVERFRONT AREAS, WHERE APPLICABLE, WERE TAKEN FROM AVAILABLE MASSGIS DATA. THESE WERE NOT FIELD DELINEATED OR FIELD VERIFIED.
						8.	THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES THAT MAY CONFLICT WITH PROPOSED TRANSMISSION LINE. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.
						9.	WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
						10.	THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR 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 BACKSANDED.
						18.	EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
						19.	IF SUITABLE, ALL EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
						20.	ALL PROPOSED HOT MIX ASPHALT CURB SHALL BE MASSDOT TYPE 2.
						21.	ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
						22.	ALL PROPOSED BOUNDS SHALL BE PLACED BY A LICENSED PROFESSIONAL SURVEYOR. THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
						23.	DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER AND IN ACCORDANCE WITH ALL PERMITS AND LAWS REGULATING SOIL DISPOSAL.
						24.	LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS.
						25.	WHERE DEWATERING IS REQUIRED, CONTRACTOR SHALL TREAT WATER WITH DEWATERING BASIN OR DEWATERING FILTER BAGS BASED ON INPUT FROM LOCAL CONSERVATION COMMISSIONS.
						26.	SYNCPATED SILT FENCE TO BE USED AS AN EROSION CONTROL BARRIER WITHIN 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 WITH CONSTRUCTION FENCING AND SIGNAGE THAT SHALL BE INSTALLED IN CONSULTATION WITH APPROVED BY THE CULTURAL RESOURCES CONSULTANT GIVEN 24 HOURS ADVANCED NOTICE 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 AFTER CONSULTATION WITH THE CULTURAL RESOURCES CONSULTANT, WHO SHALL SPECIFY THE METHODOLOGY USED TO REMOVE, PRESERVE, AND RESET THE FEATURE.

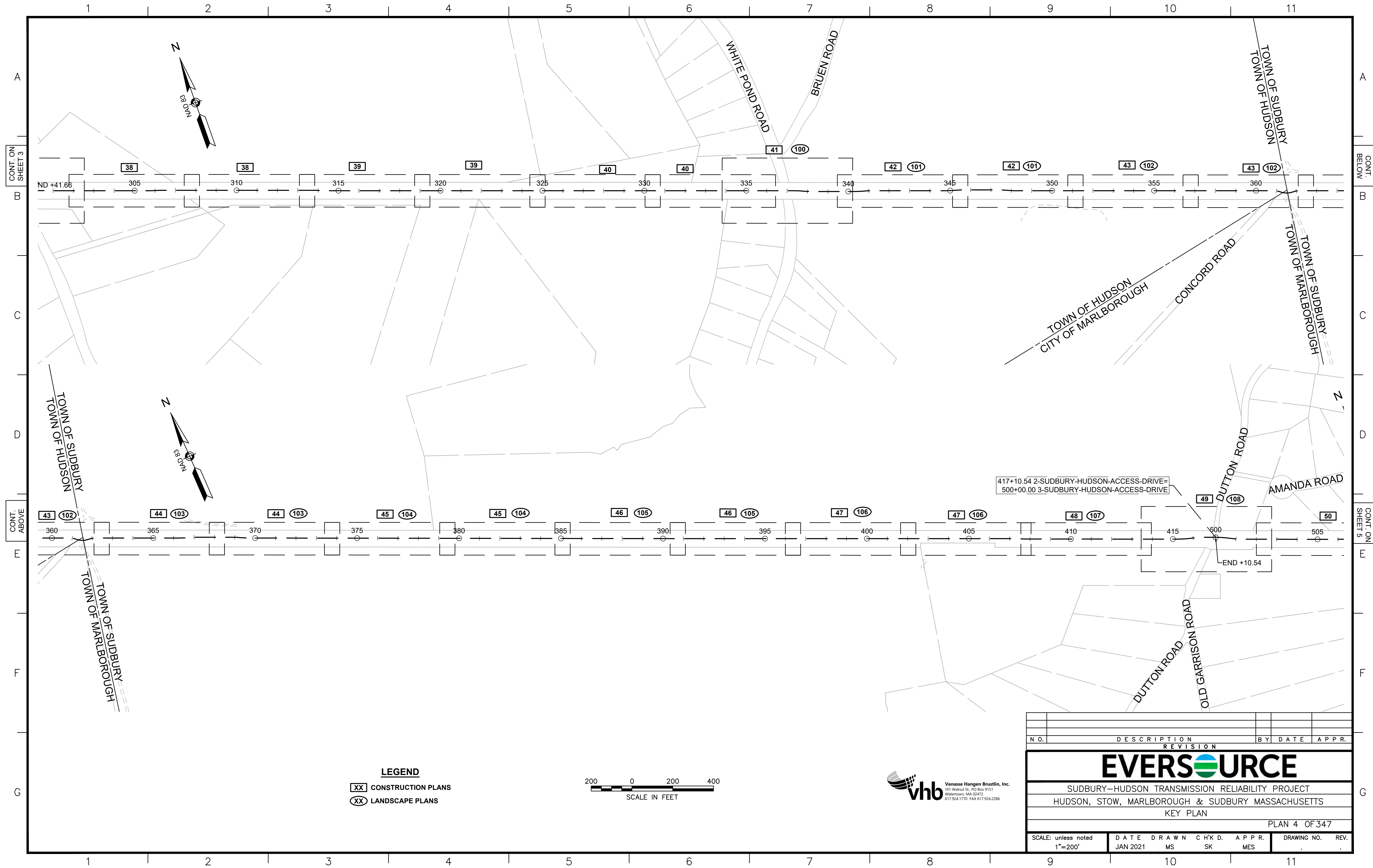
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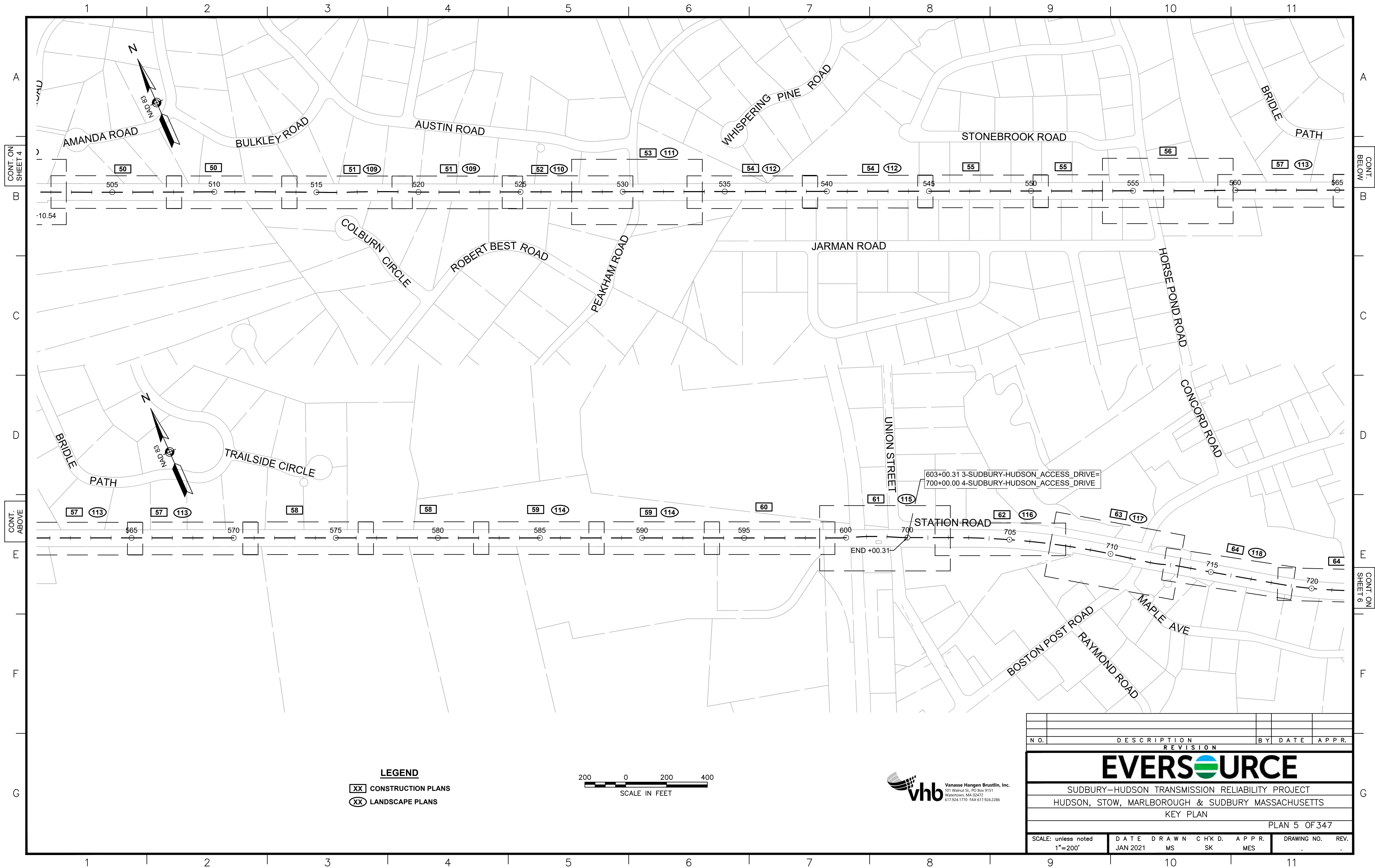
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
LEGEND, ABBREVIATIONS, & GENERAL NOTES

PLAN 2 OF 347

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







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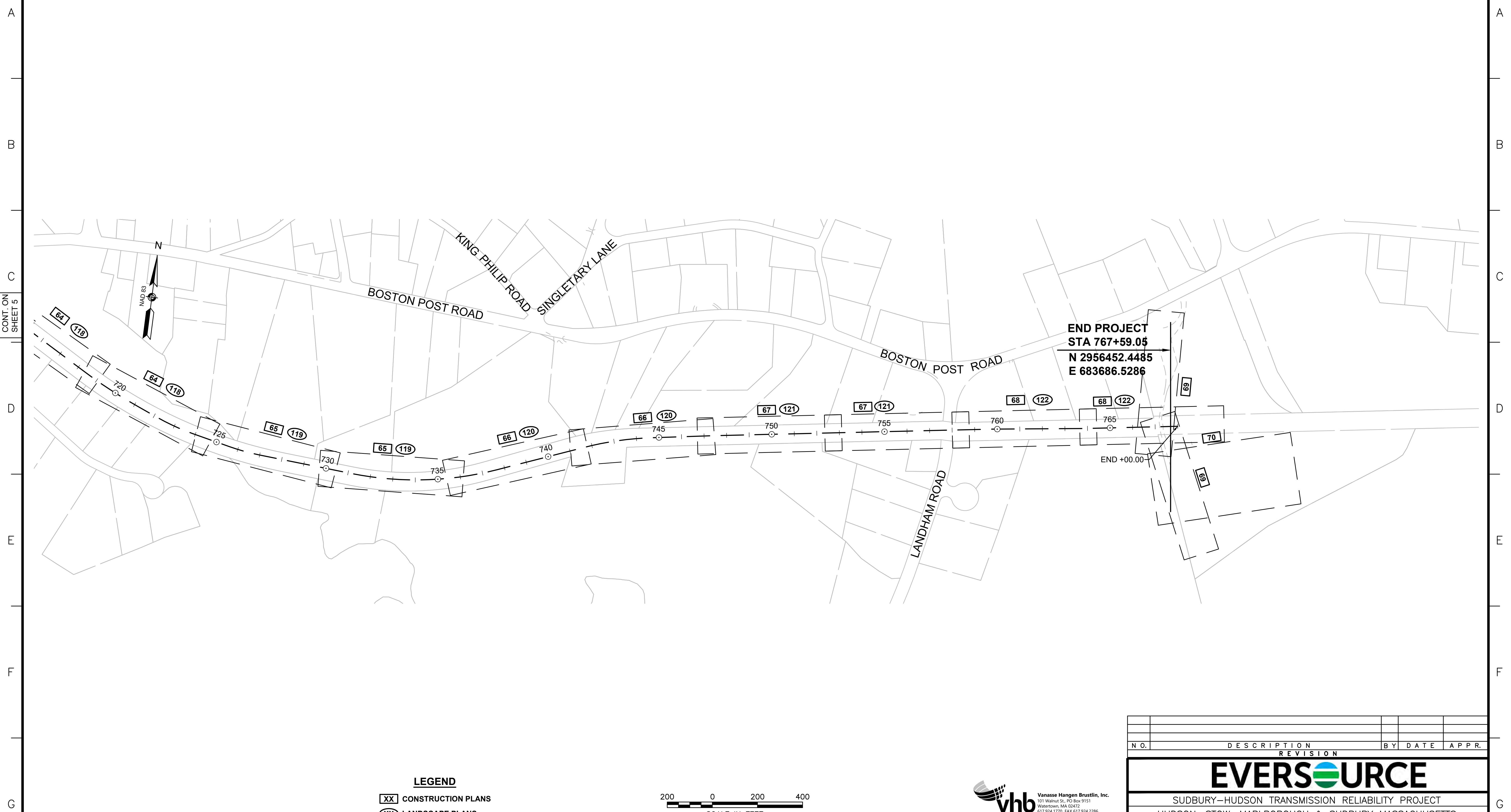
LEGEND

- XX CONSTRUCTION PLANS
- XX LANDSCAPE PLANS



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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
KEY PLAN				
PLAN 5 OF 347				
SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	APPR. MES
				DRAWING NO. REV. 11

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CONT. ON
SHEET 5

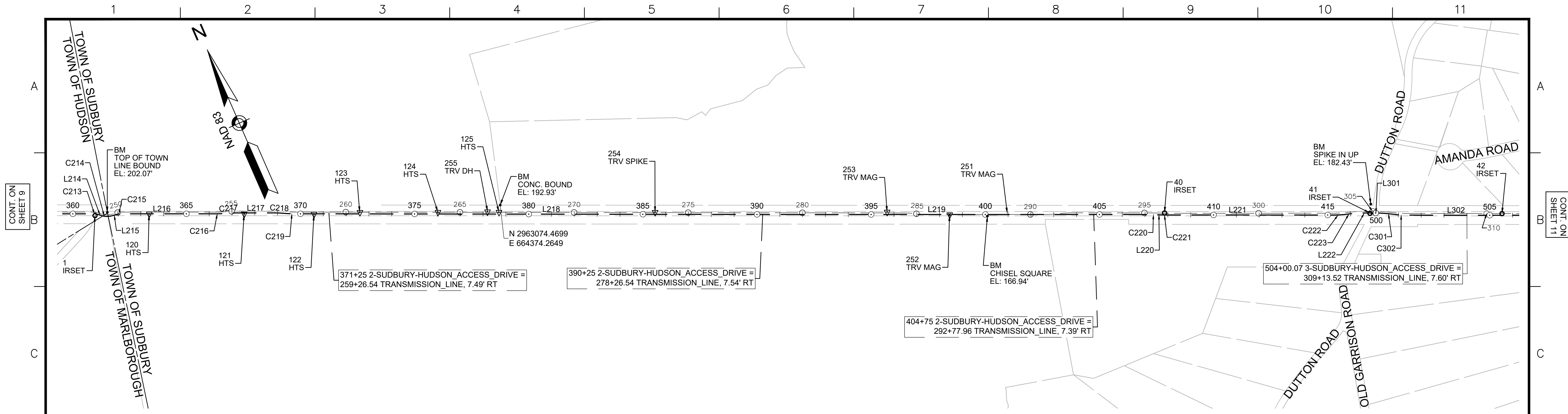
LEGEND

- XX CONSTRUCTION PLANS
- XX LANDSCAPE PLANS



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
KEY PLAN				
PLAN 6 OF 347				
SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	A P P R. MES
DRAWING NO.	REV.			11

1 2 3 4 5 6 7 8 9 10 11



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

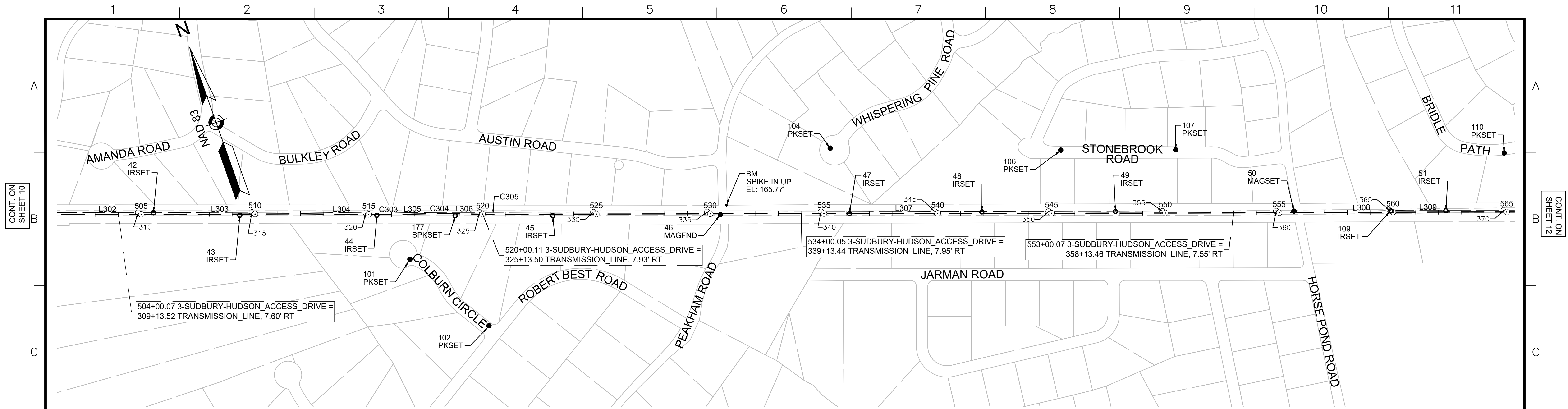
3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA							
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	EASTING
L301	500+00.00	2961502.012	667872.321		S66°12'11"E 2.28'	500+02.28	2961501.092 667874.407
C301	500+02.28	2961501.092	667874.407	R=500.00 Δ=7°41'35" L=67.14'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

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

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



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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
SURVEY TIE-IN PLANS				
PLAN 10 OF 347				
SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	CHECKED SK	APP. REV. MES



CONT. ON SHEET 10

CONT. ON SHEET 12

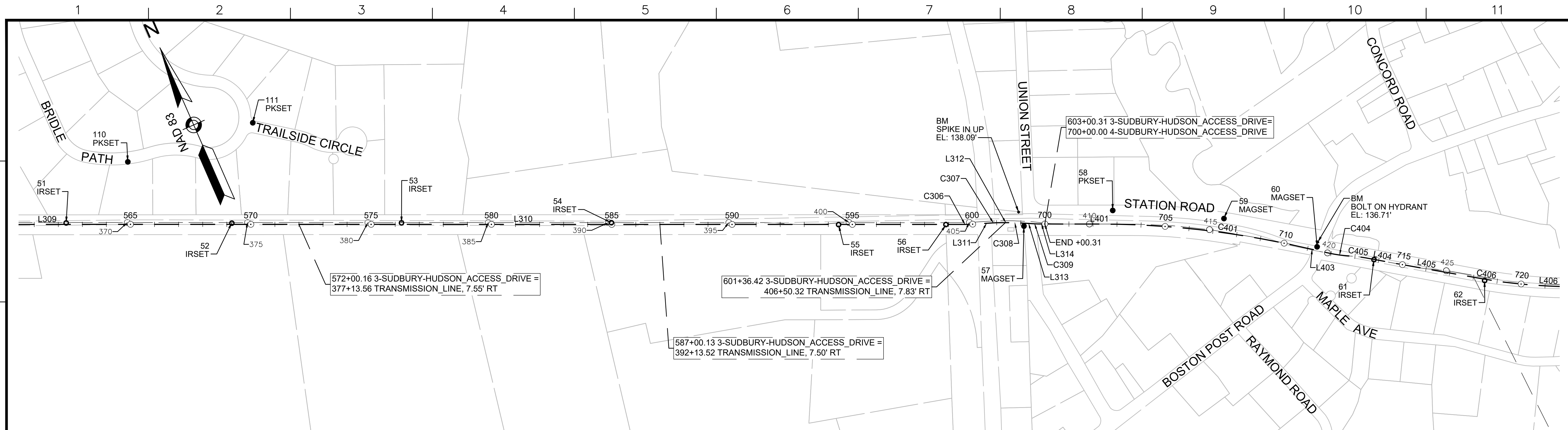
3-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA							
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	EASTING
L302	501+36.55	2961438.842	667993.259		S66°12'10"E 352.24'	504+88.78	2961296.716
L303	504+88.78	2961296.716	668315.548		S66°29'41"E 714.53'	512+03.31	2961011.736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

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEV	RAW DESCRIPTION	STATION CONSTR	OFFSET CONSTR
42	2961276.984	668377.806	188.16	IRSET	505+53.68	6.74 LT
43	2961114.242	668720.884	186.90	IRSET	509+33.20	5.67 RT
44	2960872.290	669272.068	179.54	IRSET	515+35.16	5.71 RT
45	2960561.109	669979.507	170.77	IRSET	523+08.08	6.11 RT
46	2960268.559	670655.156	164.98	MAGFND	530+44.34	3.24 RT
47	2960044.841	671176.622	158.38	IRSET	536+11.75	0.17 LT
48	2959818.439	671712.628	158.76	IRSET	541+93.58	6.87 LT
49	2959584.190	672250.787	164.97	IRSET	547+80.51	7.26 LT
50	2959270.319	672969.429	166.74	MAGSET	555+64.70	7.01 LT
51	2959003.971	673581.771	161.78	IRSET	562+32.47	5.88 LT
101	2960637.452	669327.889	173.64	PKSET	516+80.03	200.80 RT
102	2960230.460	669528.351	161.76	PKSET	520+29.54	489.96 RT
104	2960342.456	671214.805	164.86	PKSET	535+27.81	288.24 LT
106	2959927.516	672139.020	156.93	PKSET	545+40.82	277.29 LT
107	2959725.836	672602.609	167.23	PKSET	550+46.28	277.74 LT
109	2959100.366	673360.157	163.15	IRSET	559+90.81	5.57 LT
110	2959133.231	673918.507	165.88	PKSET	564+88.88	259.43 LT
177	2960732.743	669586.484	175.07	SPKSET	518+79.35	8.71 RT

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



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
SURVEY TIE-IN PLANS				
PLAN 11 OF 347				
SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPR. MES
DRAWING NO.		REV.		



CONT. ON SHEET 11

CONT. ON SHEET 13

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

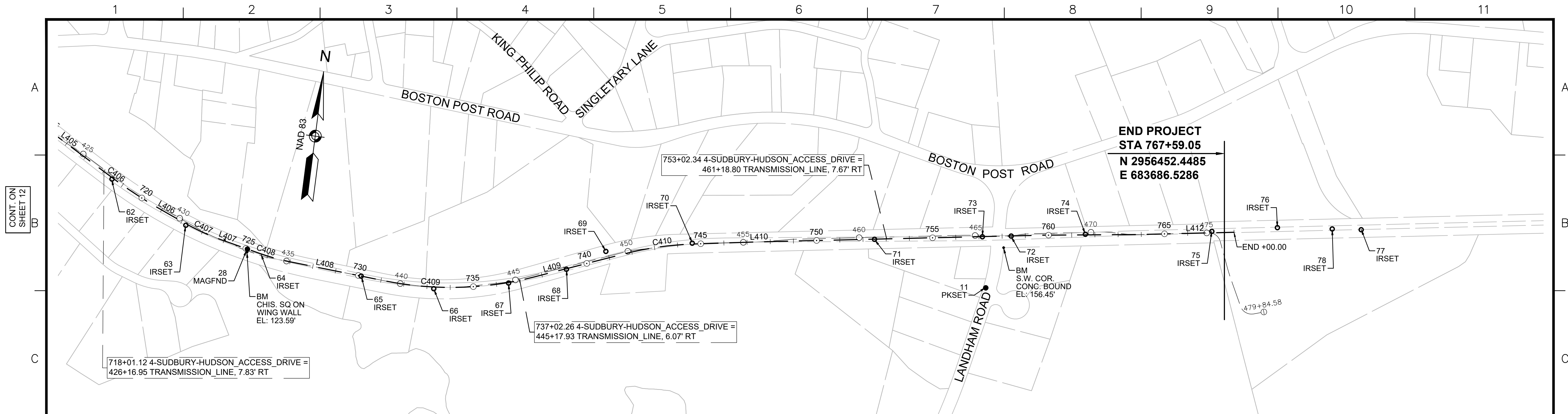
4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L401	700+00.00	2957366.053	677304.821		S66°14'03"E 231.13'	702+31.13	2957272.909	677516.349
C401	702+31.13	2957272.909	677516.349	R=3750.00' L=813.02'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

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

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



NO.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
SURVEY TIE-IN PLANS				
PLAN 12 OF 347				
SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	C'H'K'D. SK	APPR. MES
DRAWING NO.		REV.		

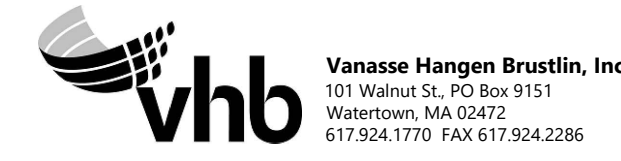


**END PROJECT
STA 767+59.05
N 2956452.4485
E 683686.5286**

4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L405	714+81.84	2956624.519	678582.722		S66°18'15"E 352.06'	718+33.90	2956429.201	678875.635
C406	718+33.90	2956429.201	678875.635	R=2150.00' L=279.96' Δ=7°27'00" T=139.98'		721+13.46	2956289.642	679117.643
L406	721+13.46	2956289.642	679117.643		S63°45'15"E 104.16'	722+17.62	2956243.579	679211.069
C407	722+17.62	2956243.579	679211.069	R=1000.00' L=172.63' Δ=9°53'27" T=86.53'		723+90.25	2956180.949	679371.703
L407	723+90.25	2956180.949	679371.703		S73°38'42"E 171.77'	725+62.02	2956132.580	679536.524
C408	725+62.02	2956132.580	679536.524	R=975.00' L=138.56' Δ=8°08'34" T=69.40'		727+00.58	2956103.125	679671.802
L408	727+00.58	2956103.125	679671.802		S81°47'16"E 414.21'	731+14.79	2956043.959	680081.760
C409	731+14.79	2956043.959	680081.760	R=1450.00' L=651.62' Δ=25°44'54" T=331.41'		737+66.41	2956096.475	680725.774
L409	737+66.41	2956096.475	680725.774		N72°27'50"E 398.71'	741+65.12	2956216.609	681105.957
C410	741+65.12	2956216.609	681105.957	R=1400.00' L=304.86' Δ=12°28'35" T=153.03'		744+69.98	2956276.216	681404.316
L410	744+69.98	2956276.216	681404.316		N84°56'25"E 284.93'	747+54.91	2956301.344	681688.134
L412	763+88.36	2956423.284	683316.984		N85°29'15"E 411.64'	768+00.00	2956455.670	683727.352

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

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



N.O.	DESCRIPTION	BY	DATE	APP.R.
	REVISION			

EVERSOURCE

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

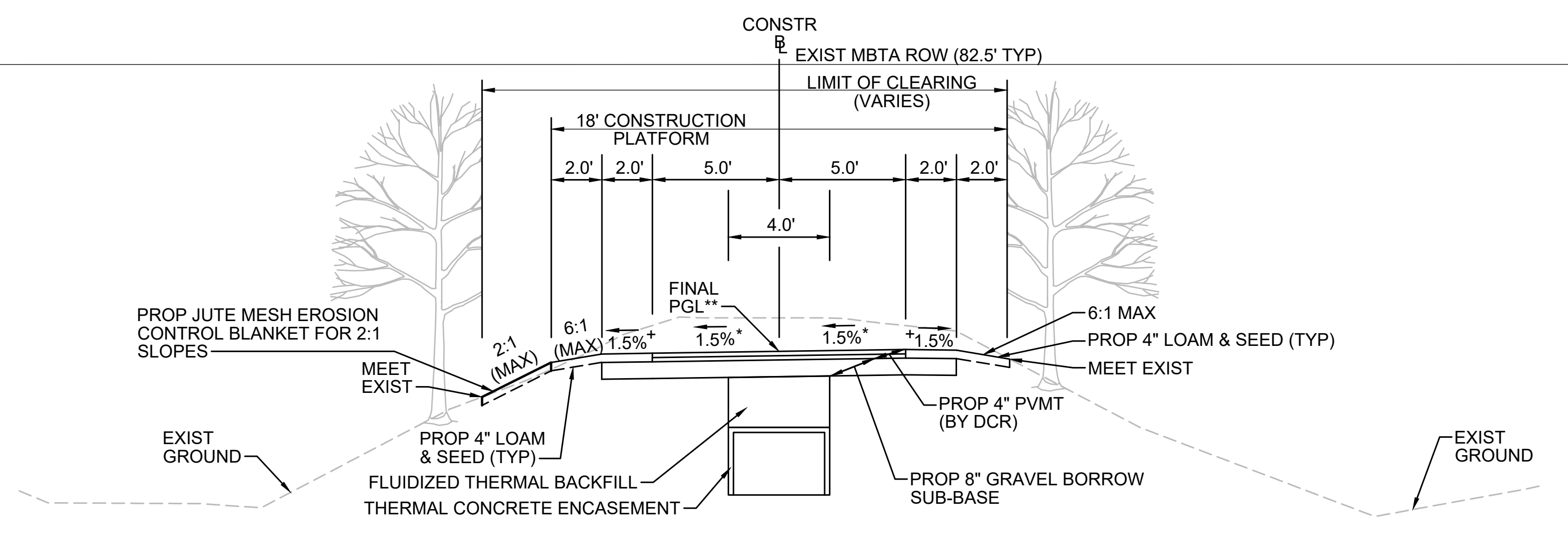
PLAN 13 OF 347

SCALE: unless noted 1"=200'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	A P P R. MES	DRAWING NO.	REV.
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CONT. ON SHEET 12

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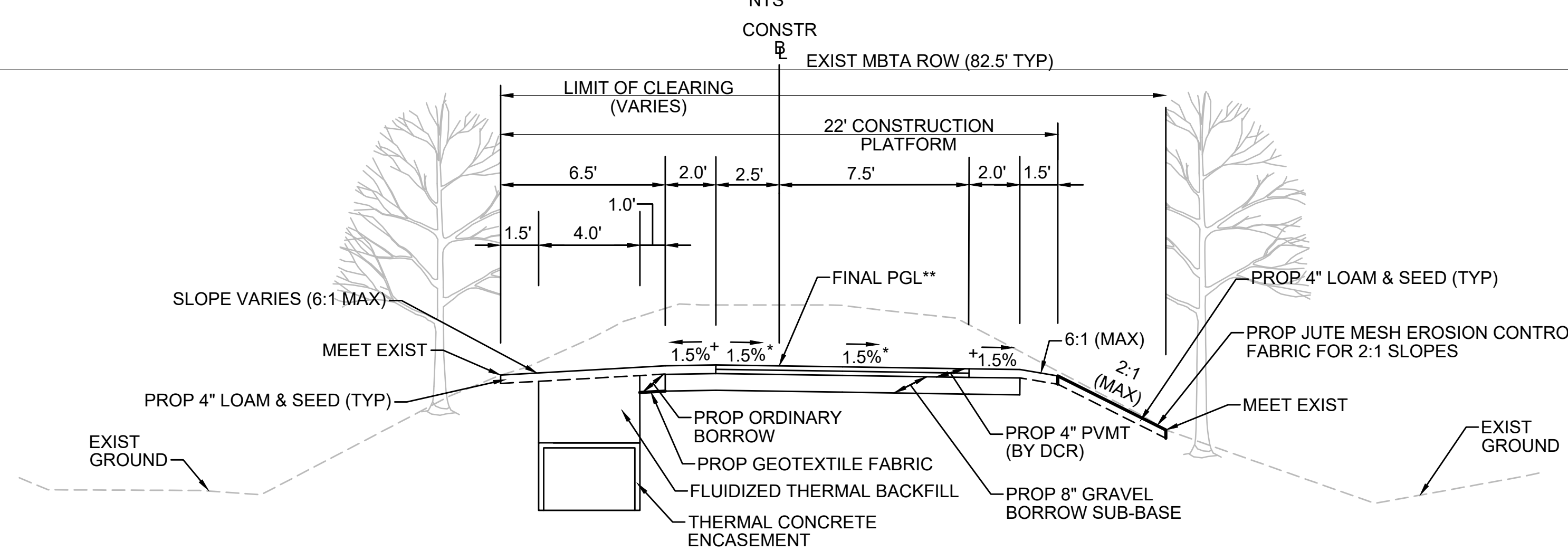


* TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID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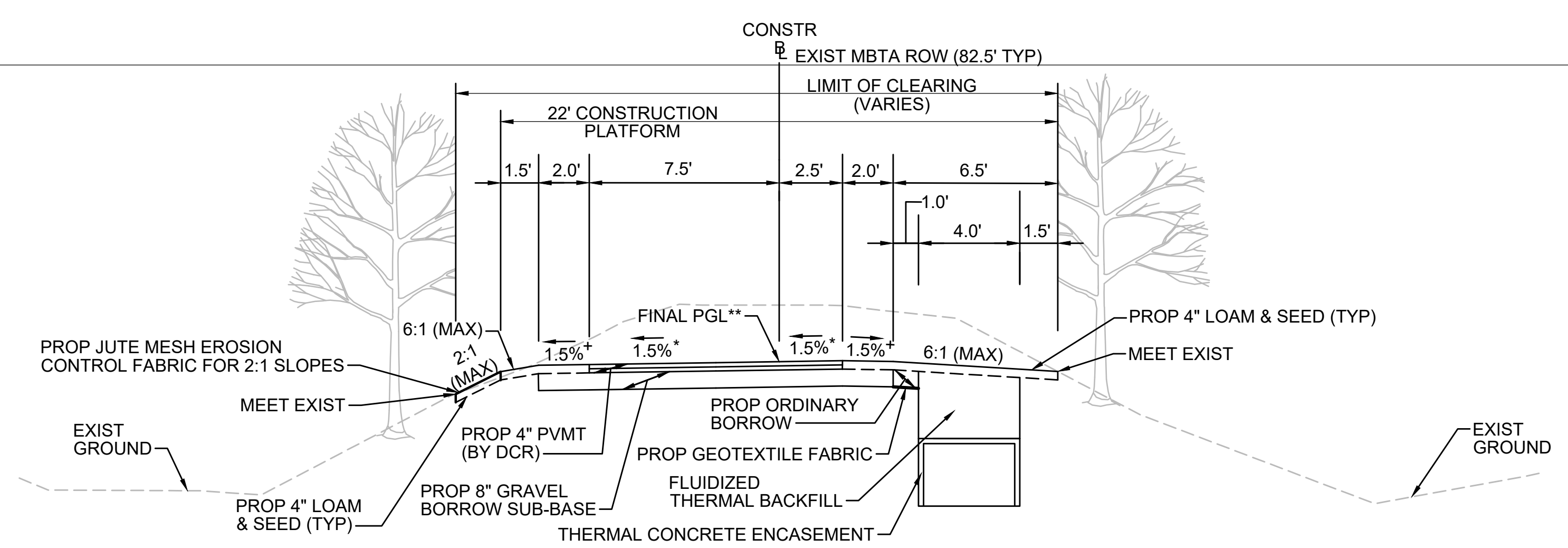


* TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID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

TYPICAL SECTION - CUT INTO EMBANKMENT - TRANSMISSION LINE 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

E



* TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$
 ** 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 ON RIGHT

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

1 2 3 4 5 6 7 8 9 10 11

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 14 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



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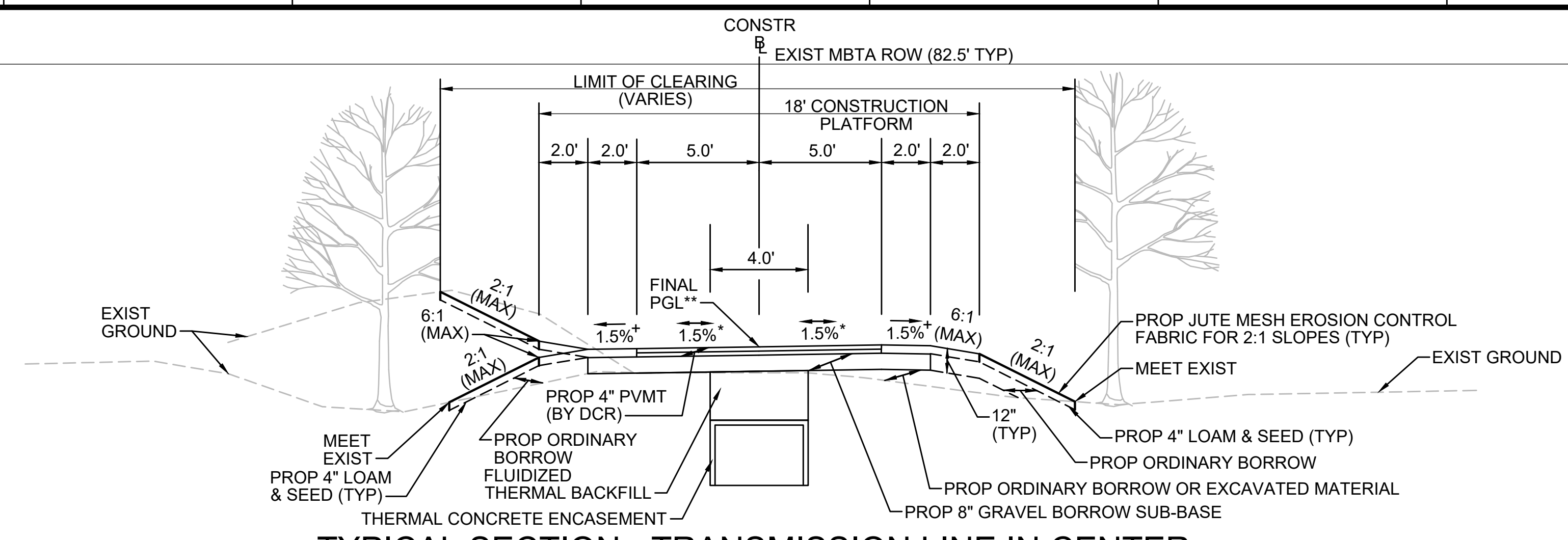
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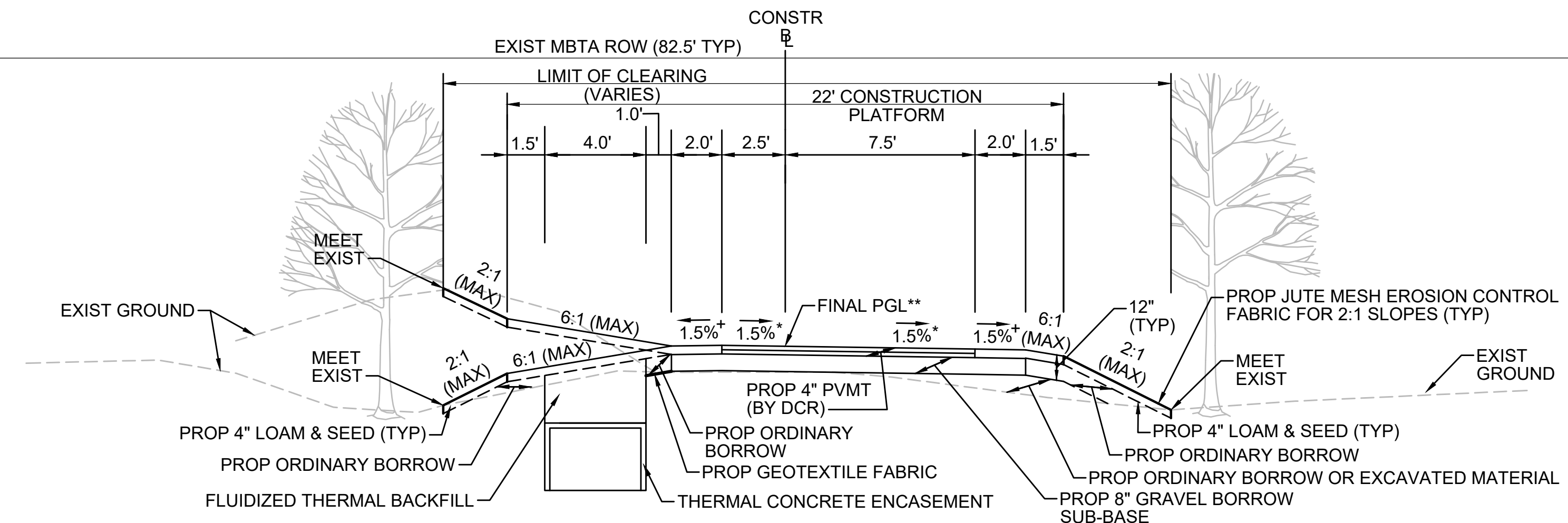
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TYPICAL SECTION - TRANSMISSION LINE IN CENTER

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

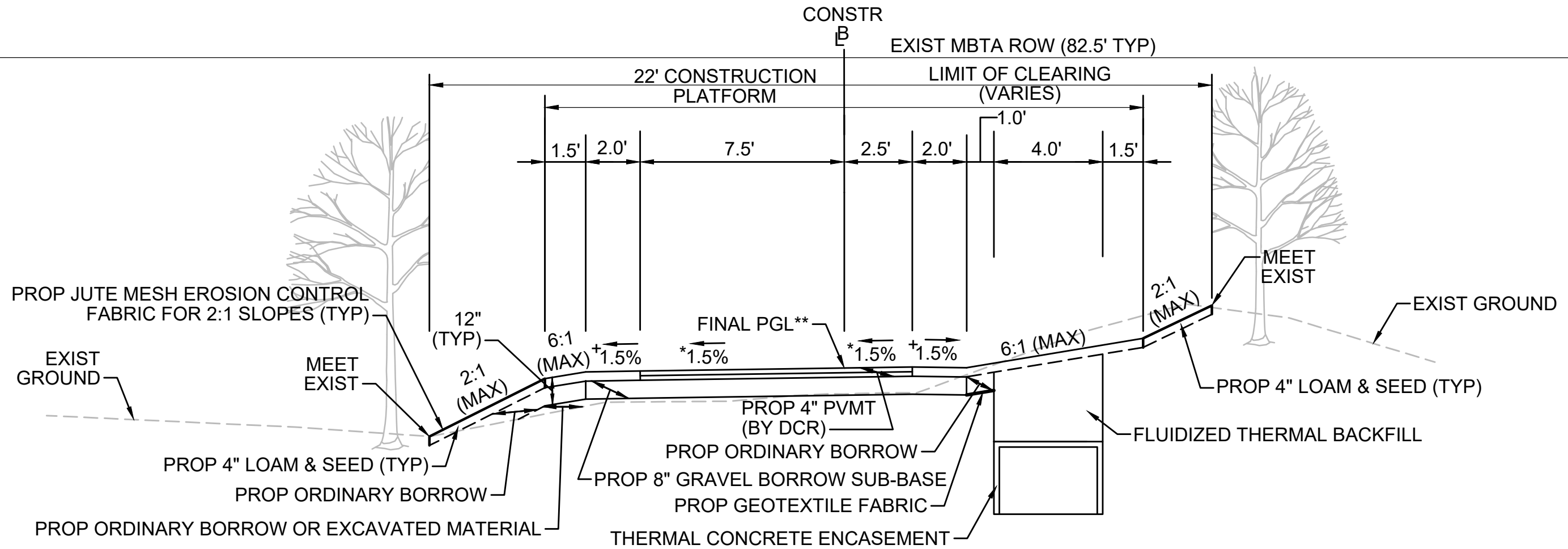
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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



TYPICAL SECTION - TRANSMISSION LINE ON LEFT

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

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



TYPICAL SECTION - TRANSMISSION LINE ON RIGHT

STA 100+31.46± TO STA 101+00±
NTS

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

REVISION			
NO.	DESCRIPTION	BY	DATE

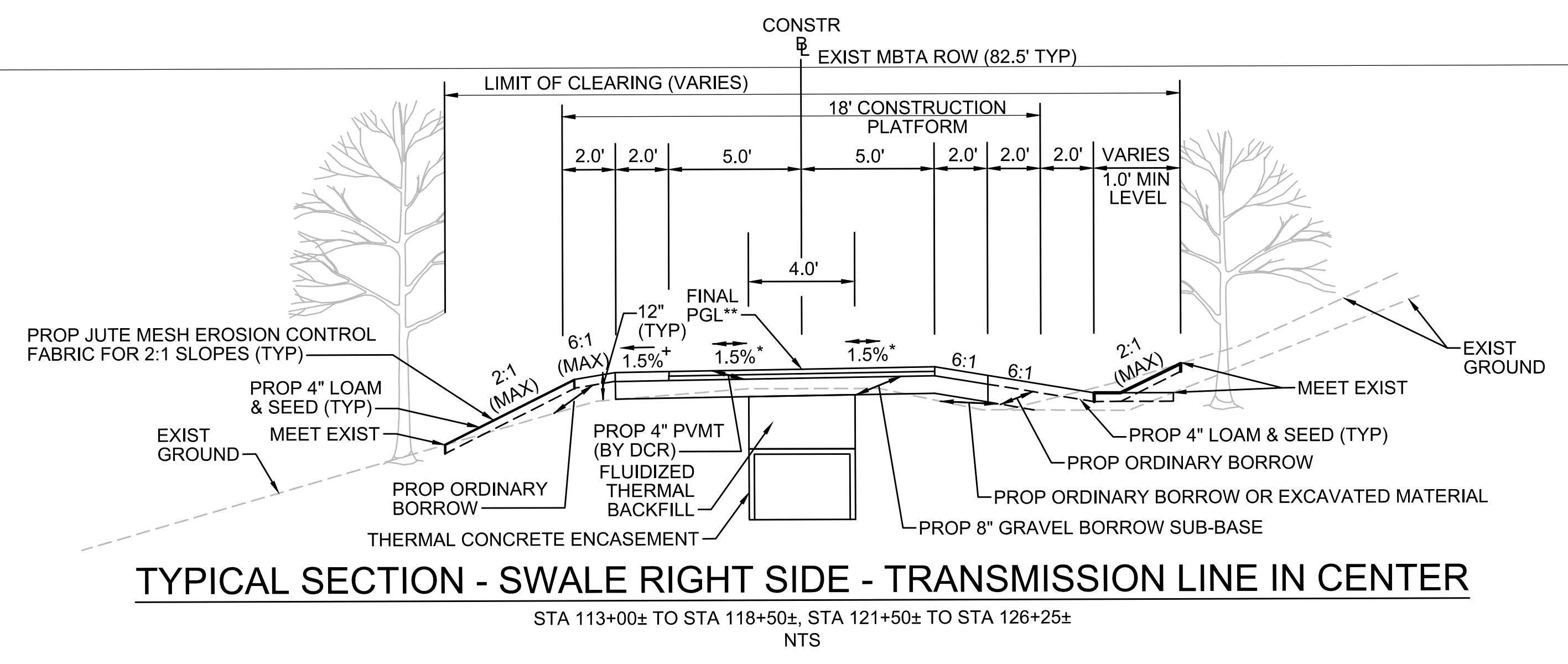
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
TYPICAL SECTIONS
PLAN 15 OF 347

SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APP'R. MES	DRAWING NO.	REV.
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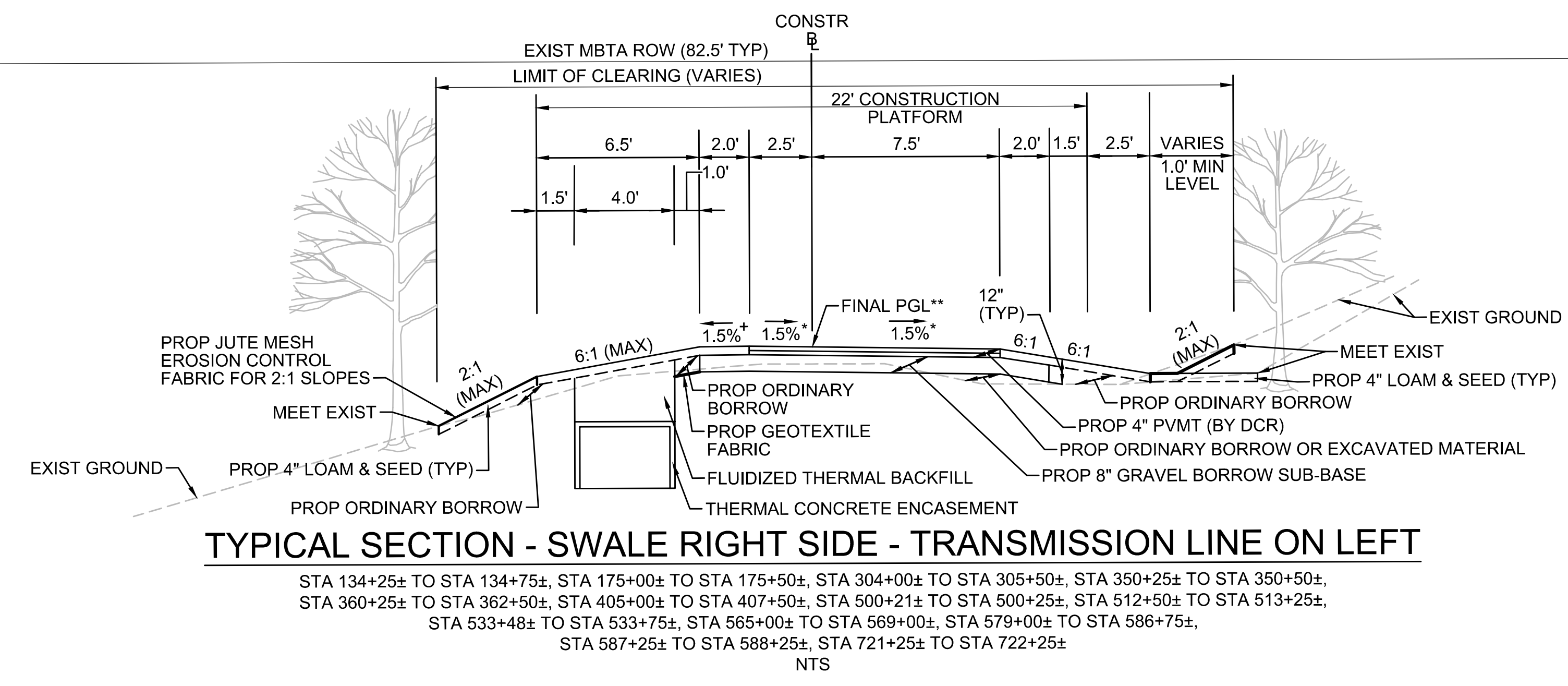


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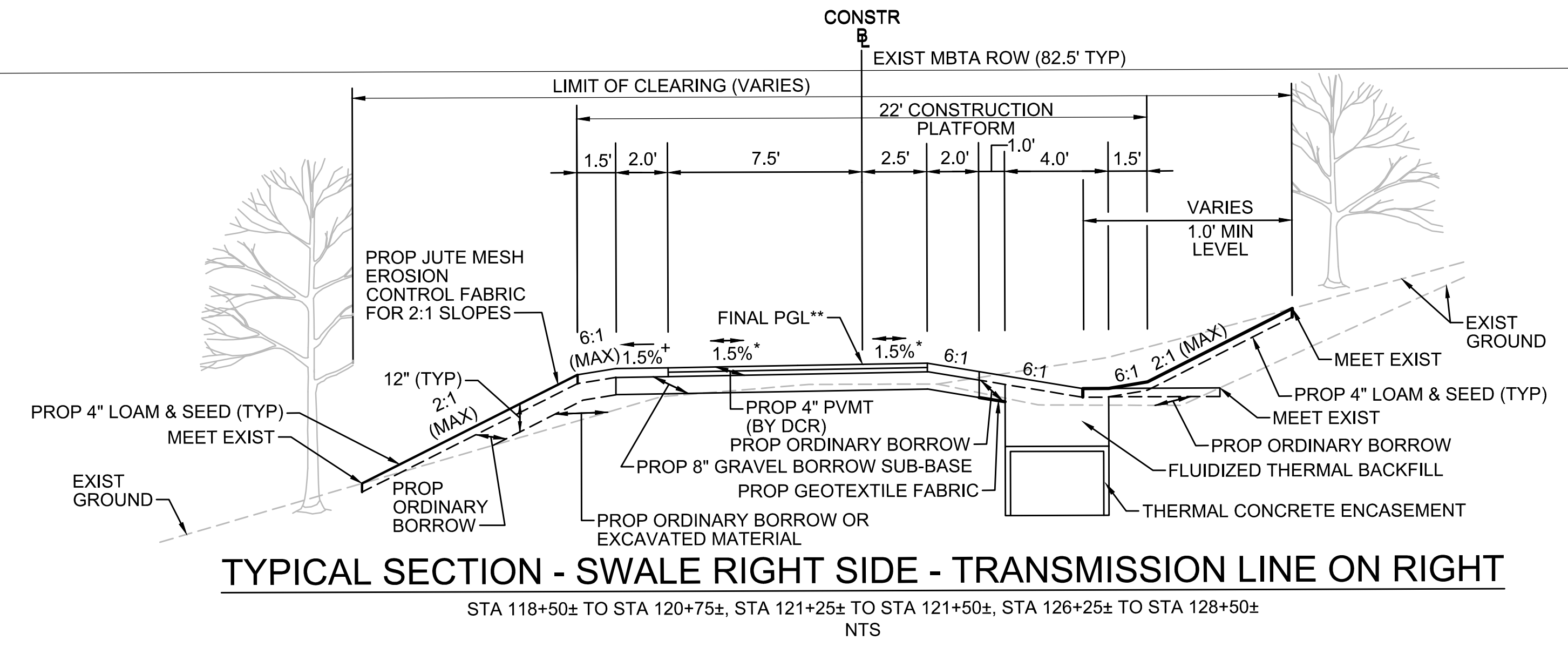
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* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.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



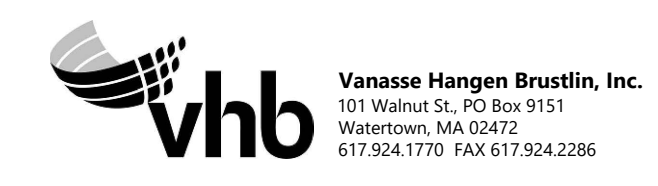
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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

REVISION			
NO.	DESCRIPTION	BY	DATE

EVERSOURCE

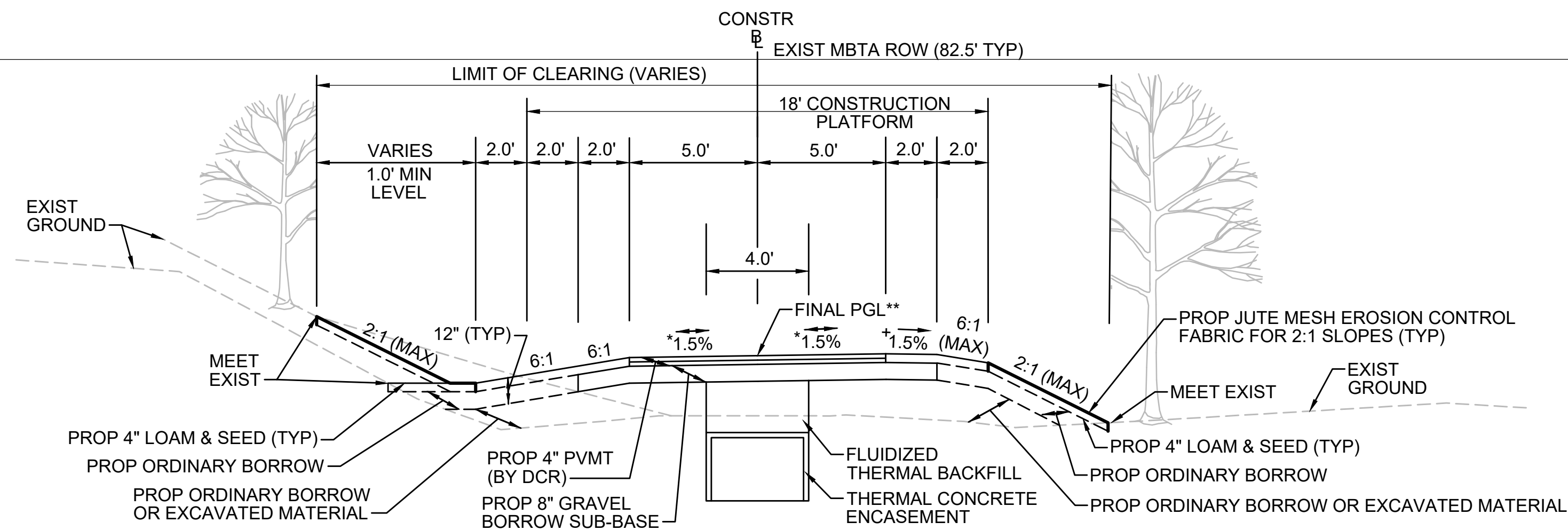
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TYPICAL SECTIONS
 PLAN 16 OF 347

SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. 	REV.
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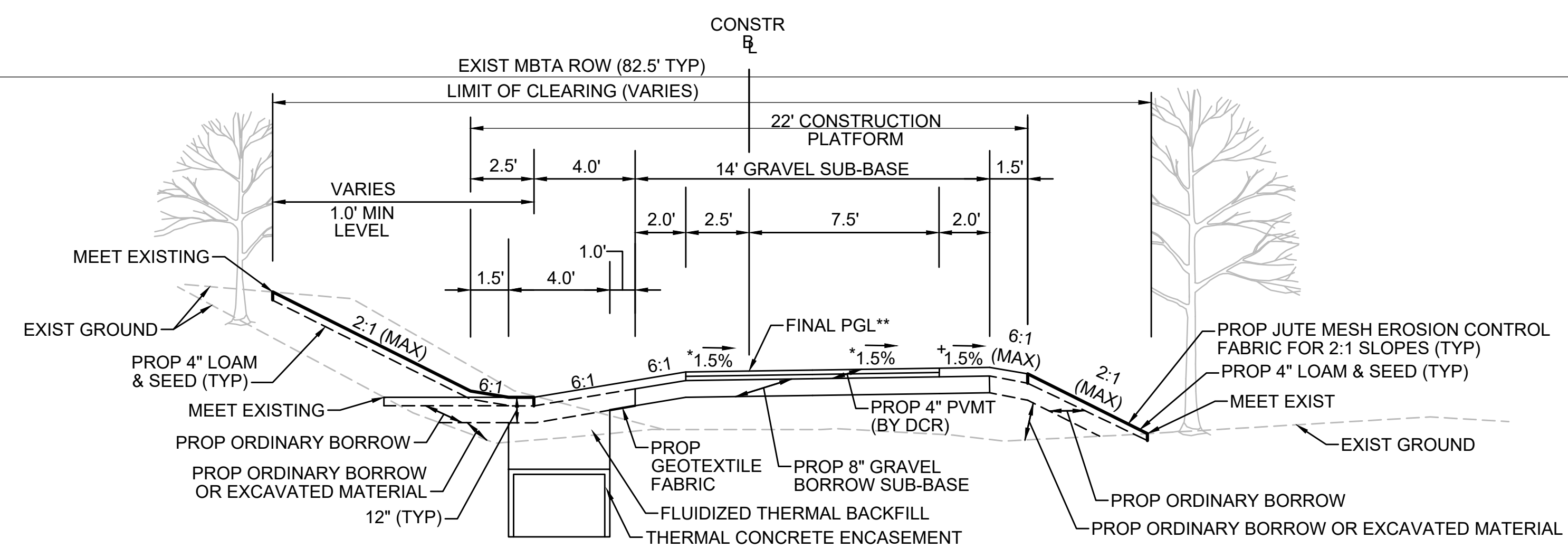
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TYPICAL SECTION - SWALE LEFT SIDE - TRANSMISSION LINE IN CENTER

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

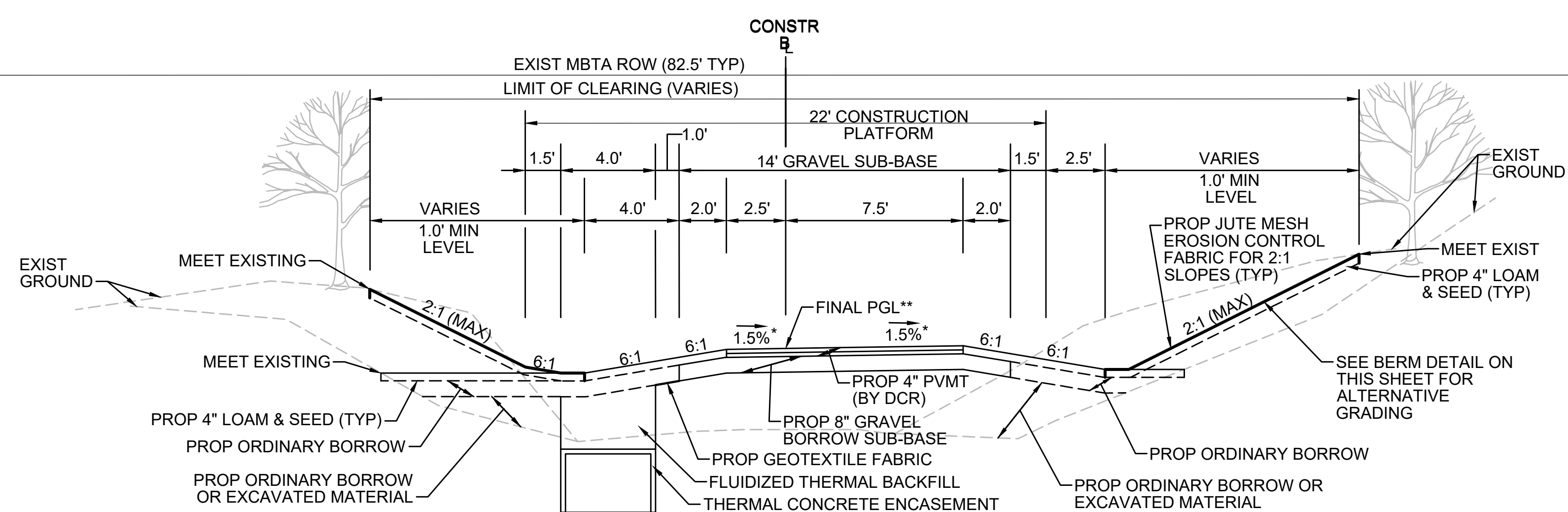
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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



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

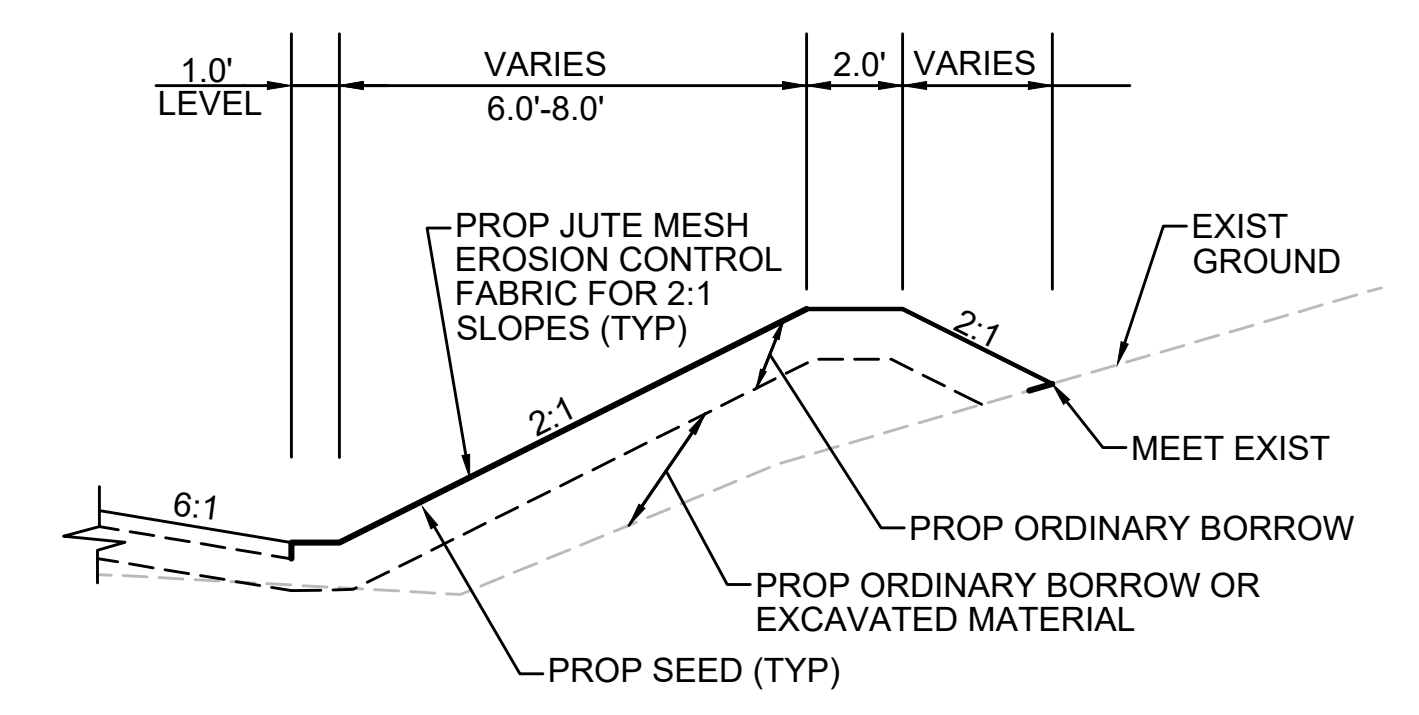
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
+ SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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



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

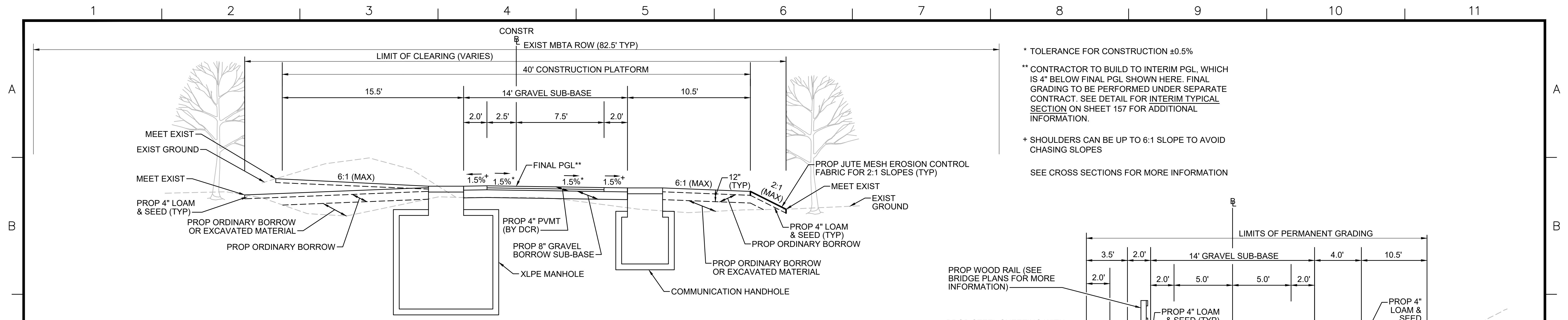
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
SEE CROSS SECTIONS FOR MORE INFORMATION



BERM DETAIL
STA 394+50 TO STA 395+50



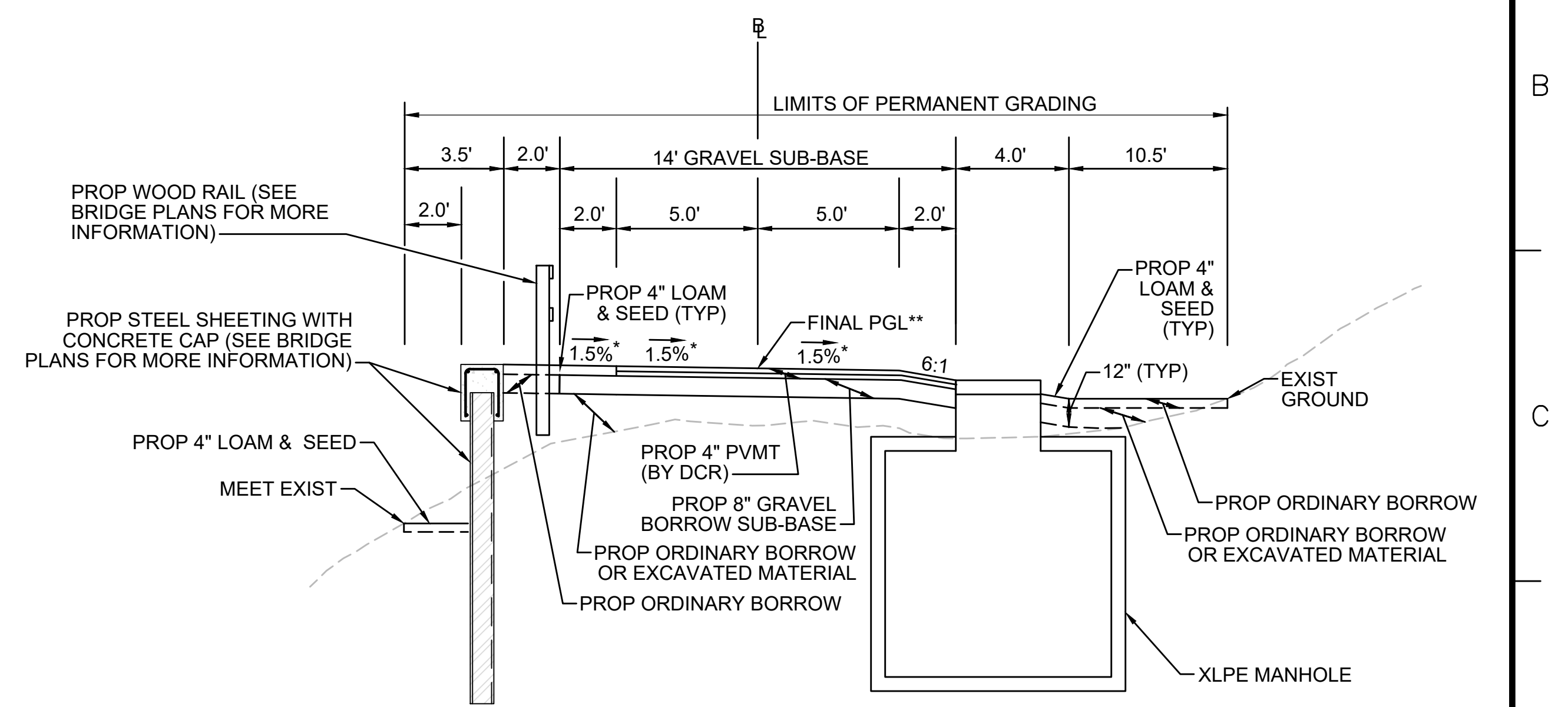
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REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TYPICAL SECTIONS					
PLAN 17 OF 347					
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.



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

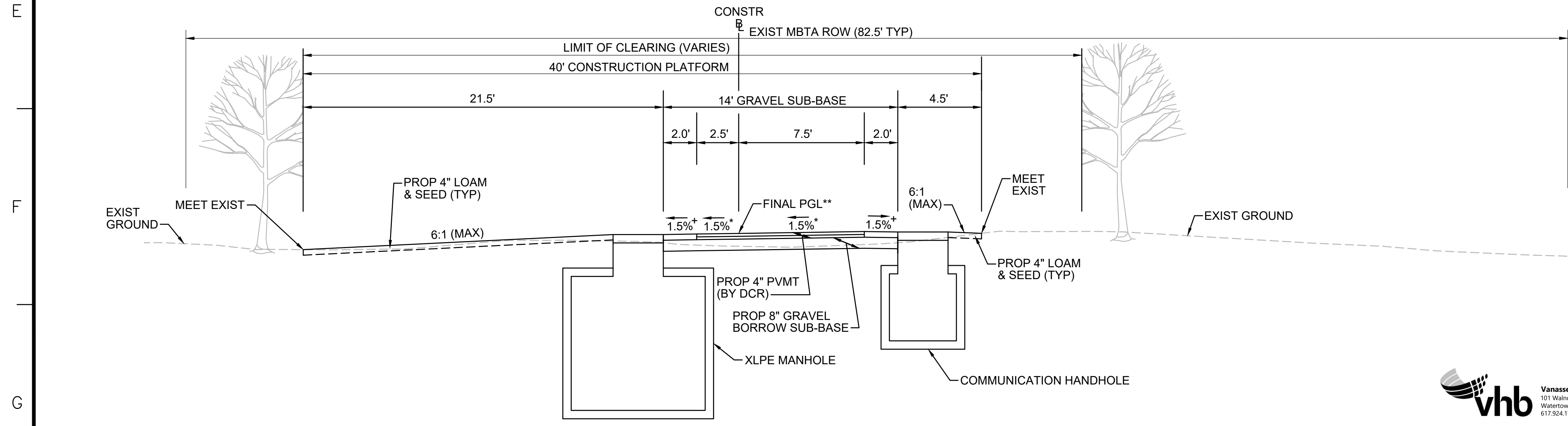
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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

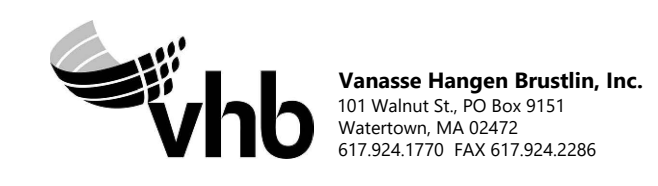


TYPICAL SECTION - MANHOLE ON LEFT - OFF-CENTER CONSTRUCTION PLATFORM

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				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 19 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
				DRAWING NO. REV.



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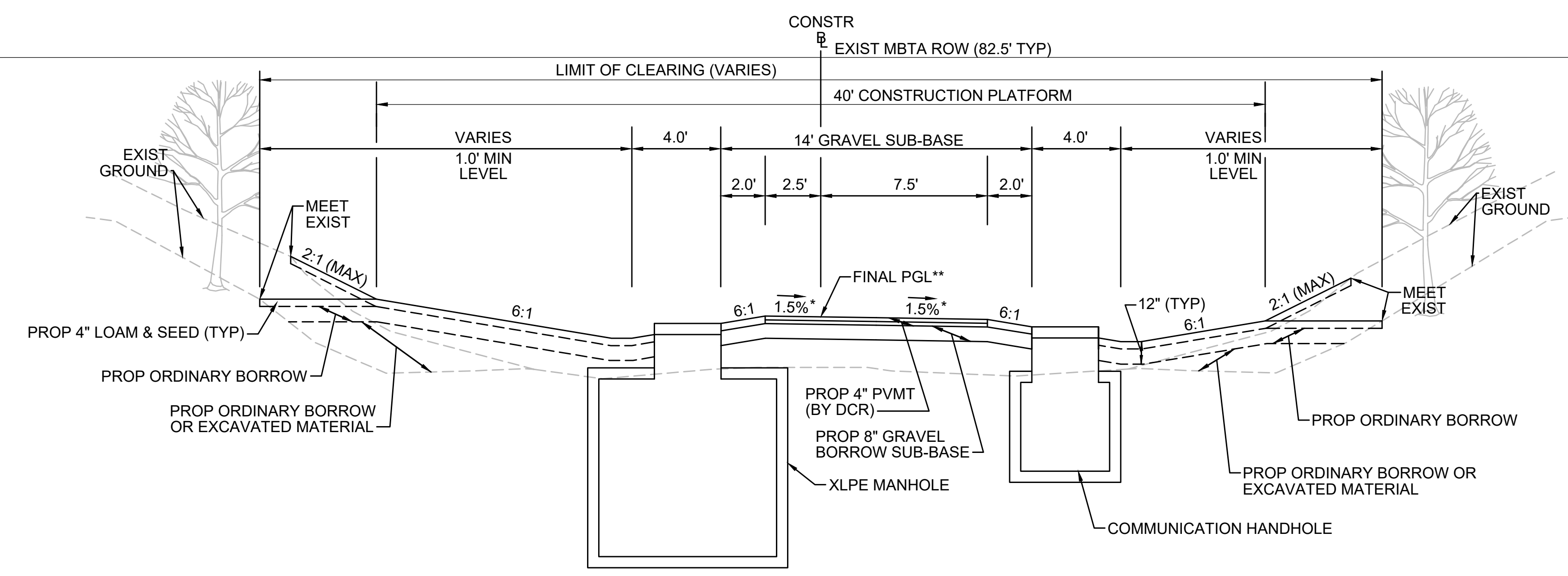
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TYPICAL SECTION - SWALE BOTH SIDES - MANHOLE ON LEFT

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



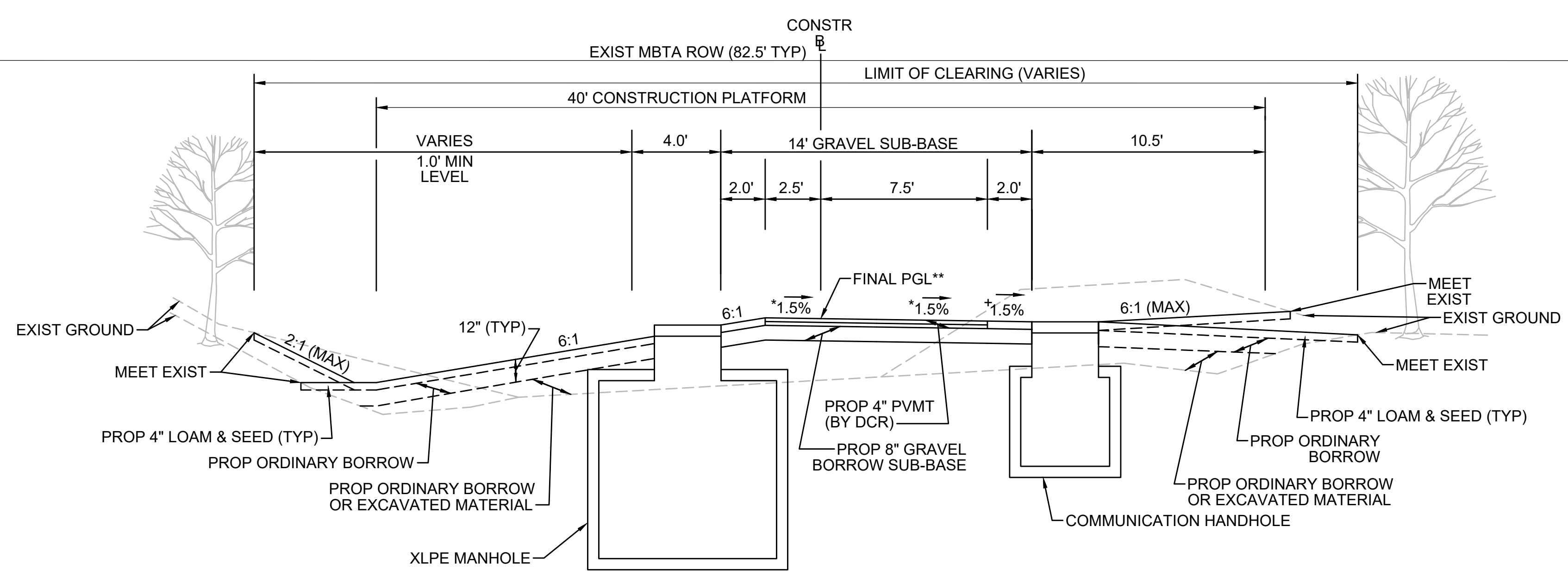
* TOLERANCE FOR CONSTRUCTION ±0.5%
 ** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
 + SHOULDERS CAN BE UP TO 6:1 SLOPE TO AVOID CHASING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

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TYPICAL SECTION - SWALE LEFT SIDE - MANHOLE ON LEFT

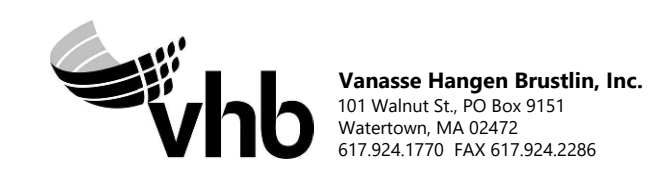
STA 316+00± TO STA 316+50±, STA 736+75± TO STA 737+25±
NTS



* 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

G

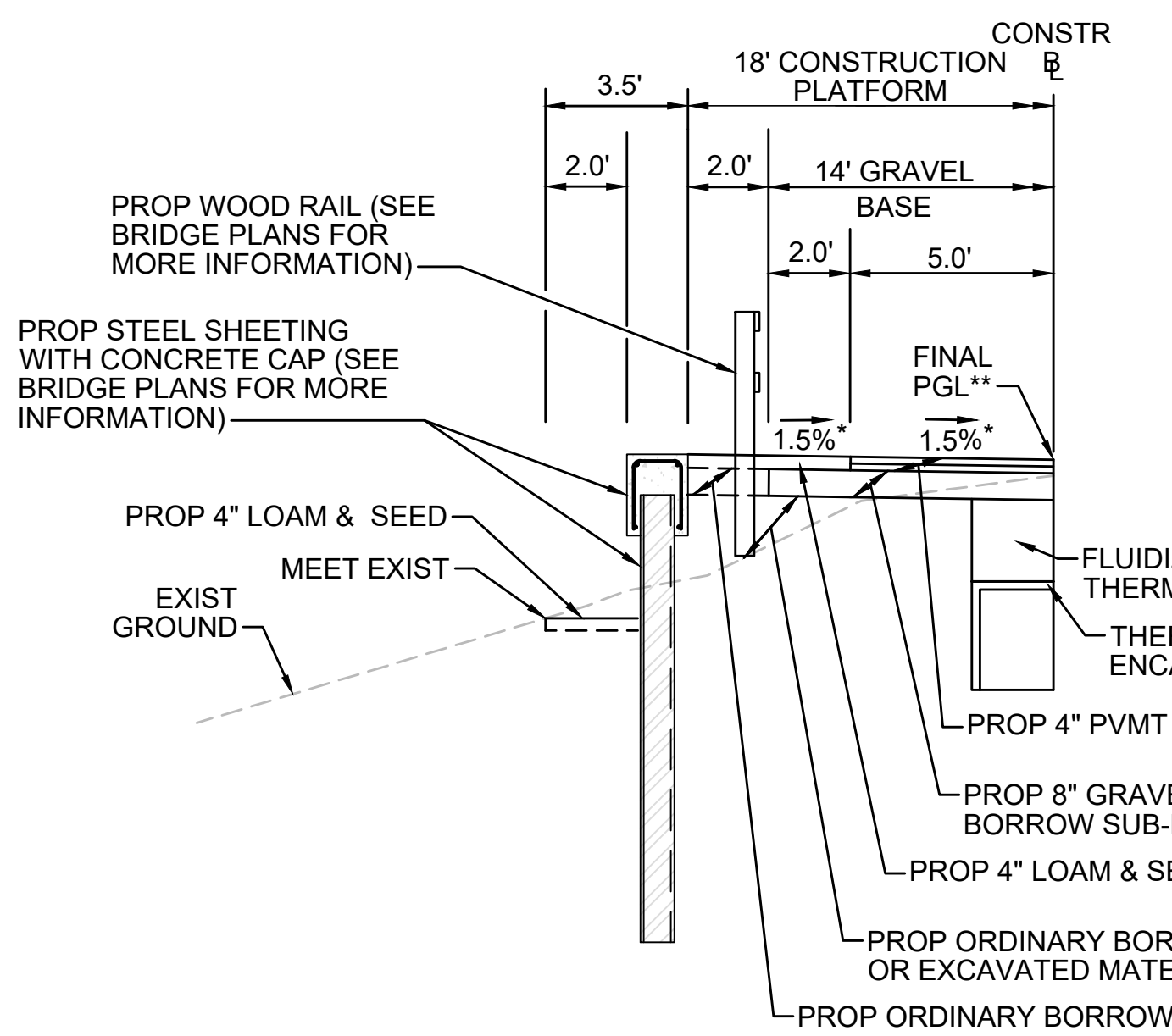


N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TYPICAL SECTIONS				
PLAN 20 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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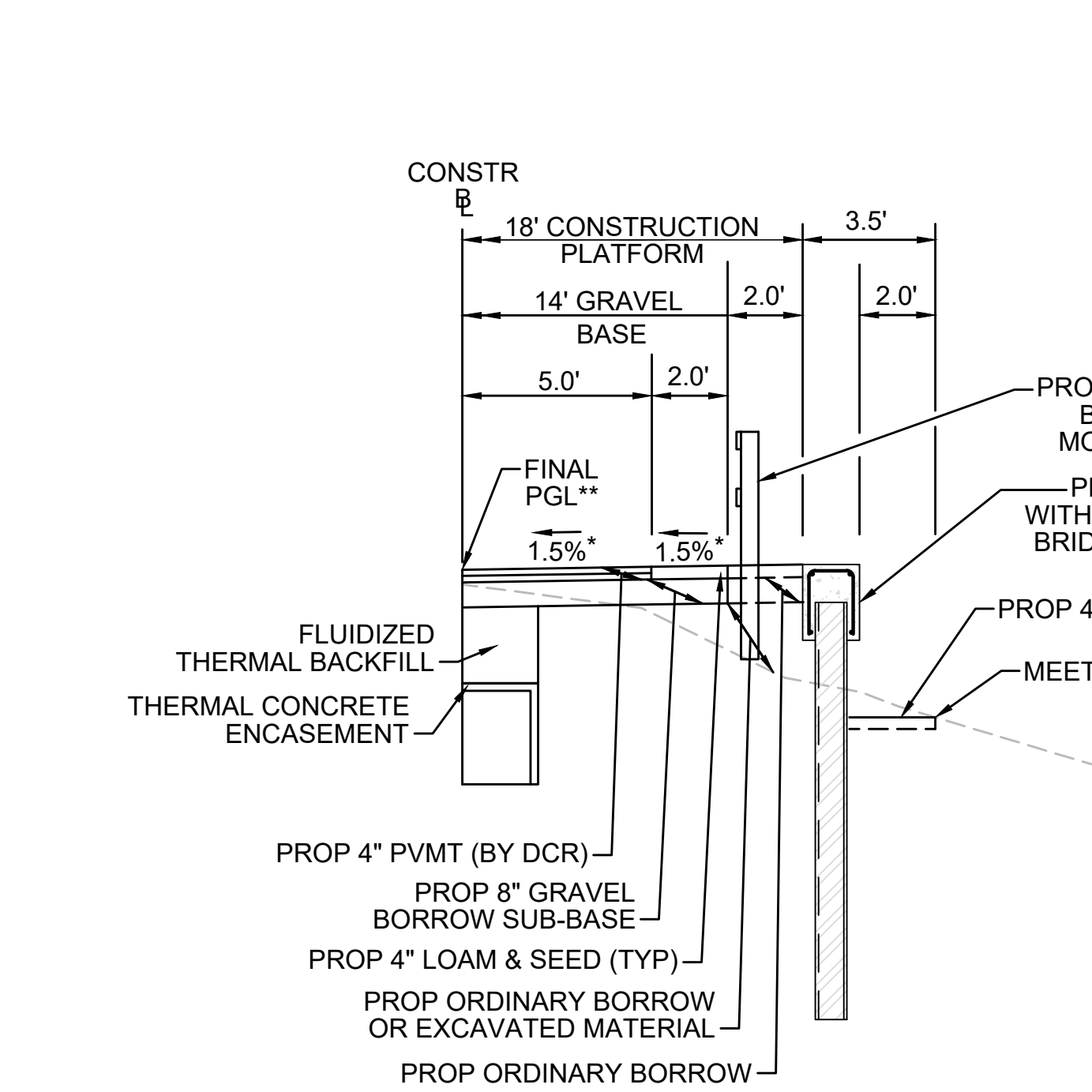
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SHEETING SECTION LT

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

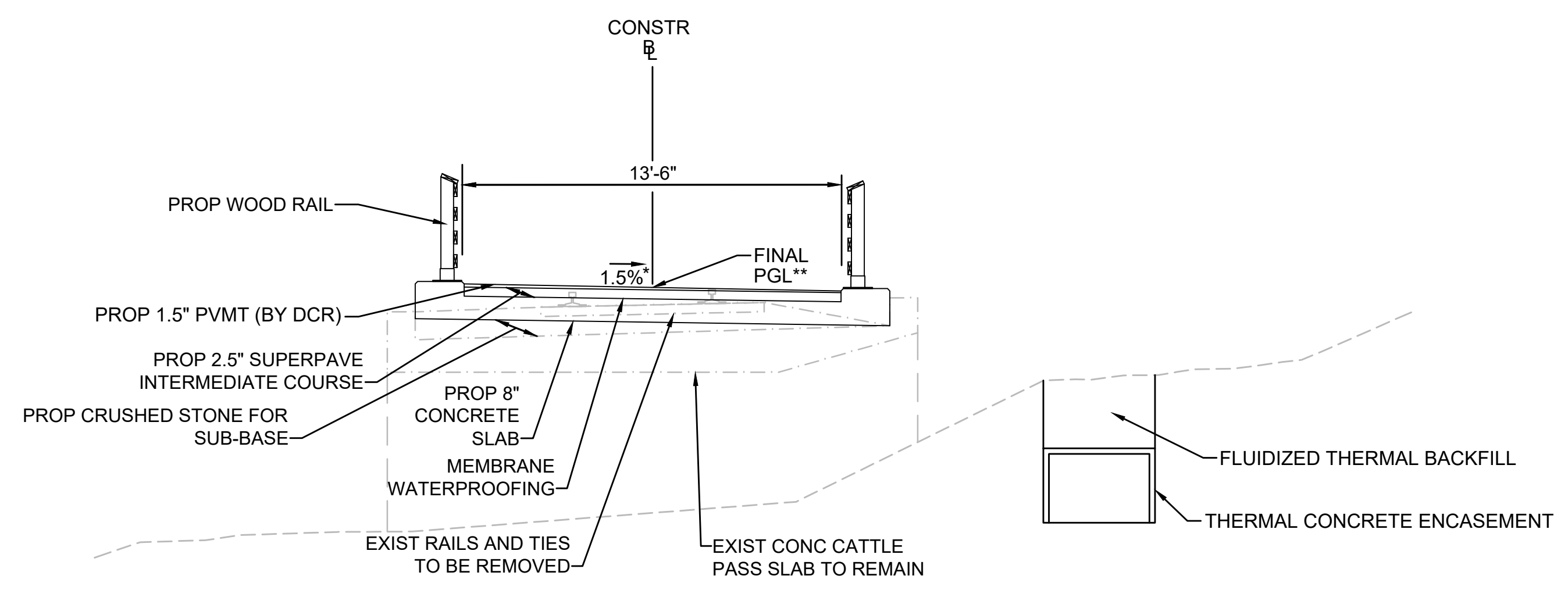
* TOLERANCE FOR CONSTRUCTION ±0.5%
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
SEE CROSS SECTIONS FOR MORE INFORMATION



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

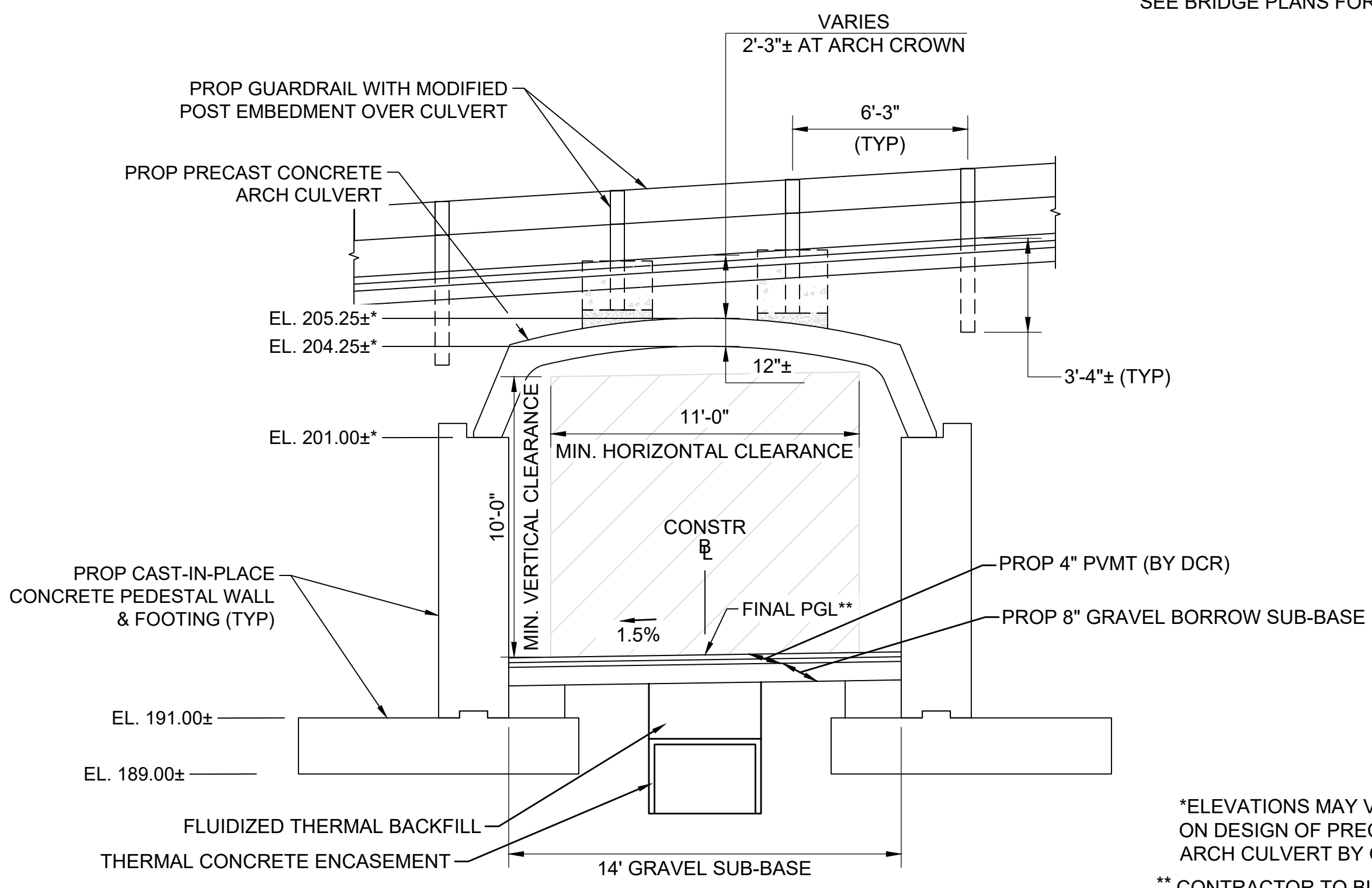
* TOLERANCE FOR CONSTRUCTION ±0.5%



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

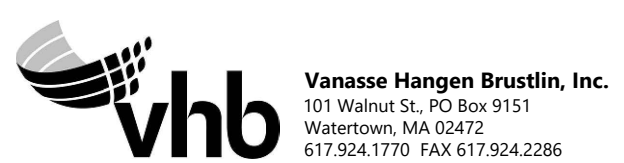
* ELEVATIONS MAY VARY DEPENDING ON DESIGN OF PRECAST CONCRETE ARCH CULVERT BY OTHERS.
** CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.
SEE BRIDGE PLANS FOR MORE INFORMATION

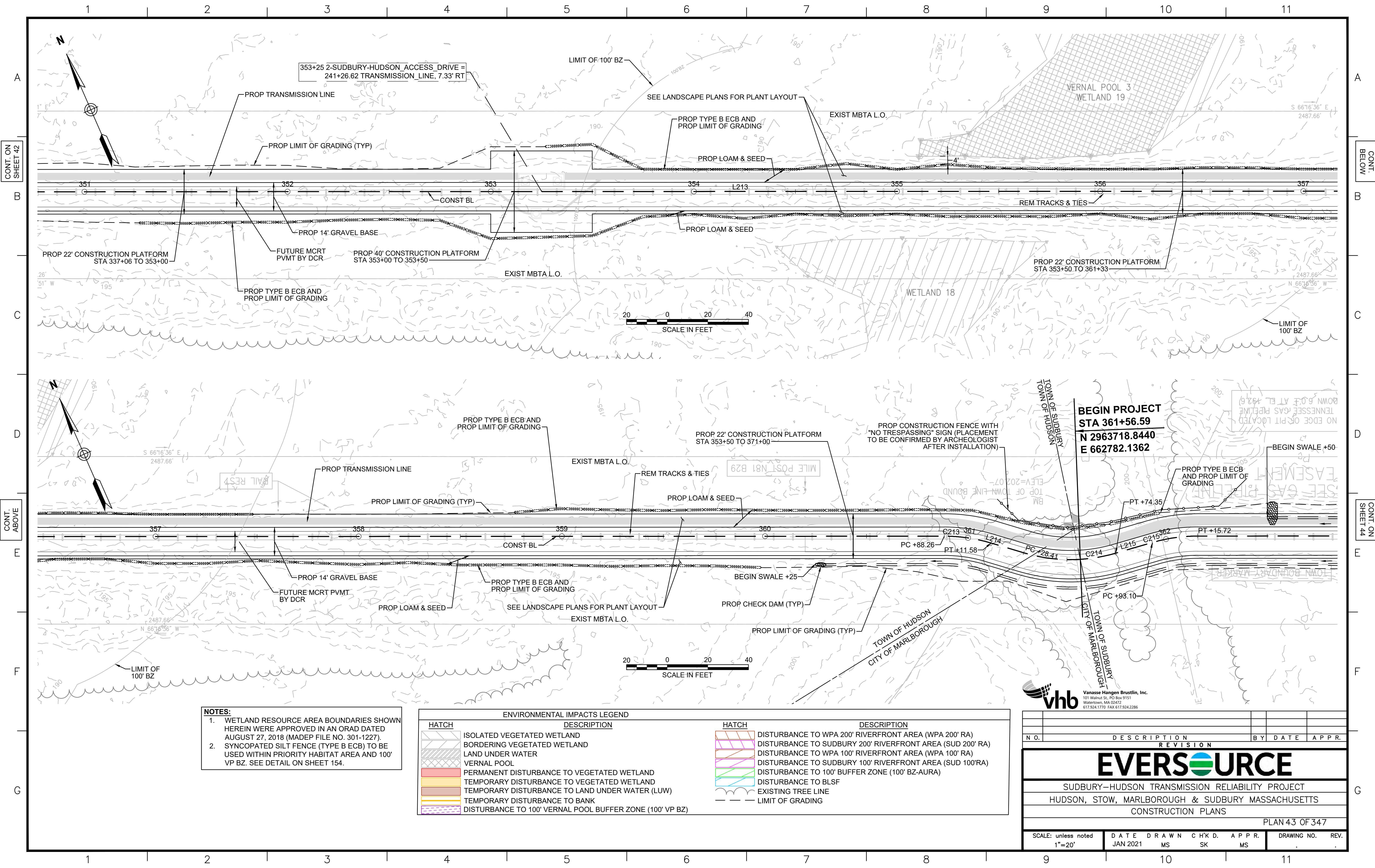
REVISION			
NO.	DESCRIPTION	BY	DATE

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
TYPICAL SECTIONS
PLAN 22 OF 347

SCALE: unless noted NTS	DATE: JAN 2021	DRAWN: MS	CHK'D: SK	APP'R: MES	DRAWING NO.:	REV.:
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NOTES:

1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

vhb
 Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.264.1770 FAX 617.264.2286

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N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

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

PLAN 43 OF 347

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

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CONT. ABOVE

CONT. ON SHEET 45

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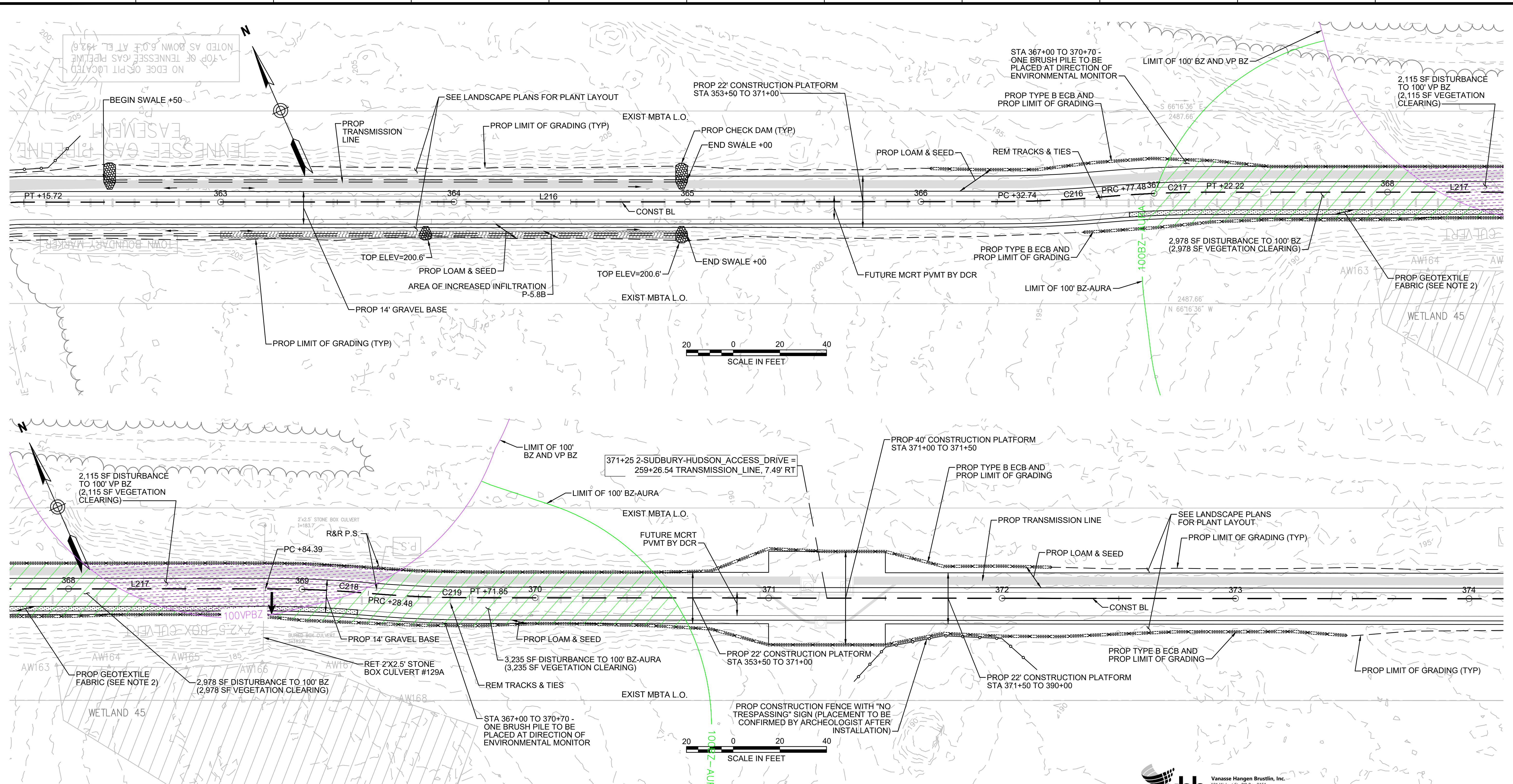
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1 2 3 4 5 6 7 8 9 10 11



- 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.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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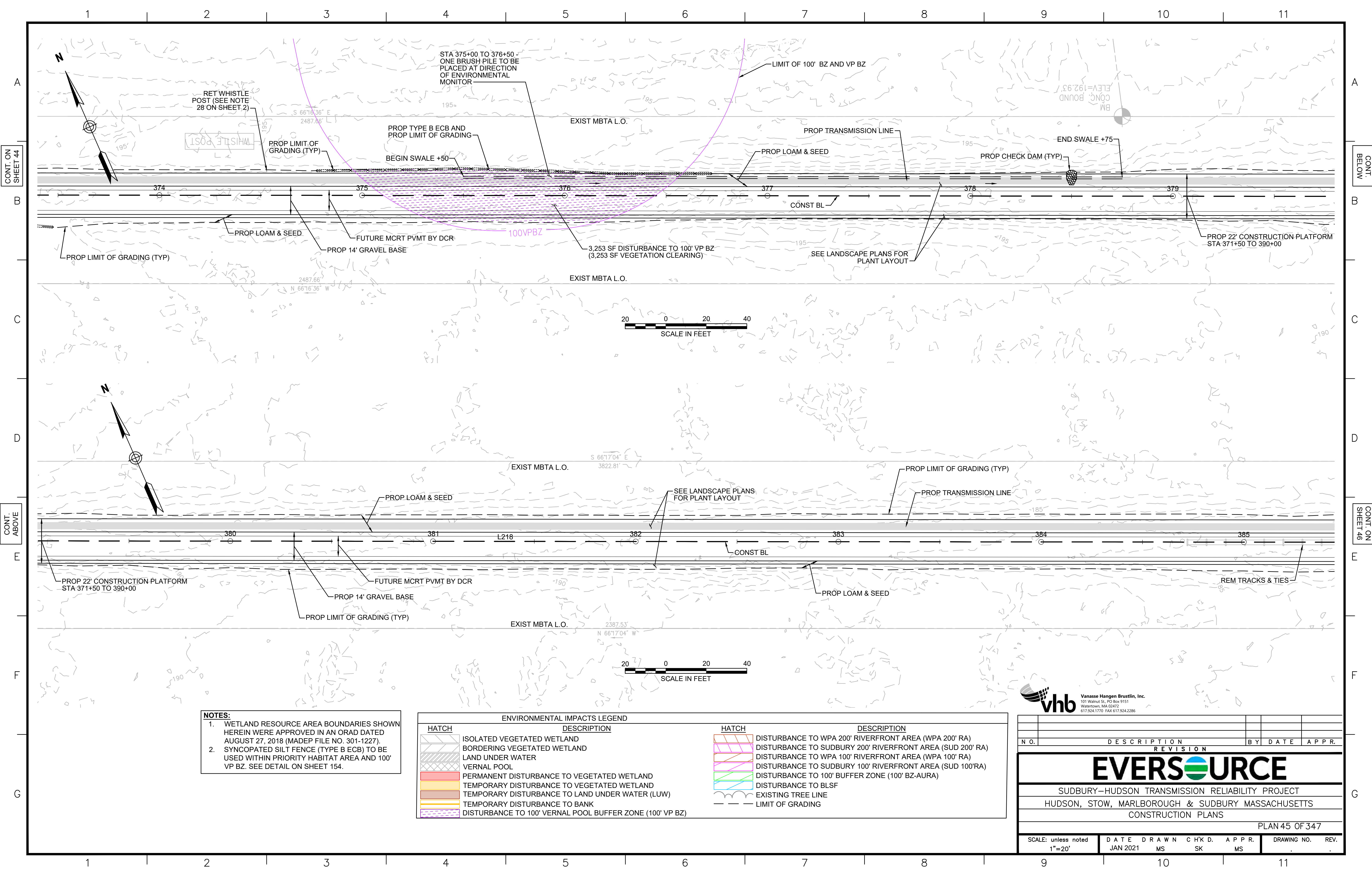
N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 44 OF 347

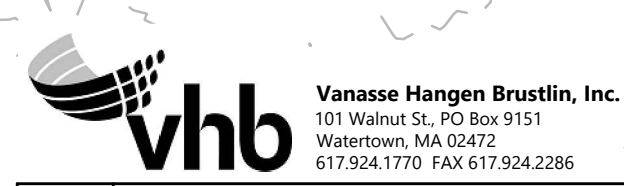
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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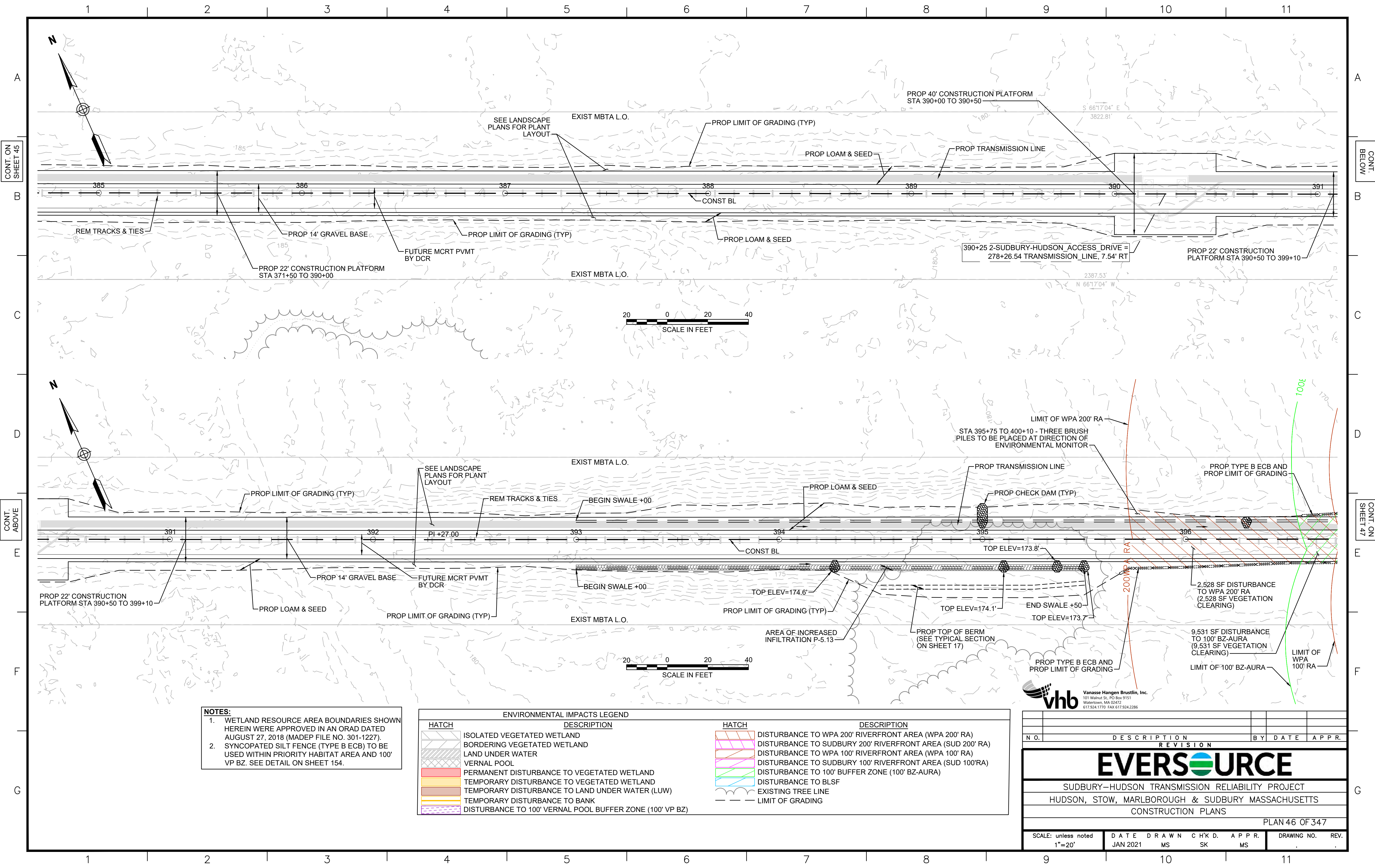
NOTES:

1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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



N.O.	DESCRIPTION	REVISION	BY	DATE	APPR.
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION PLANS					
PLAN 45 OF 347					
SCALE: unless noted 1"=20'		DATE DRAWN JAN 2021		C H'K D. A P P R. MS SK MS	
		DRAWING NO.		REV.	
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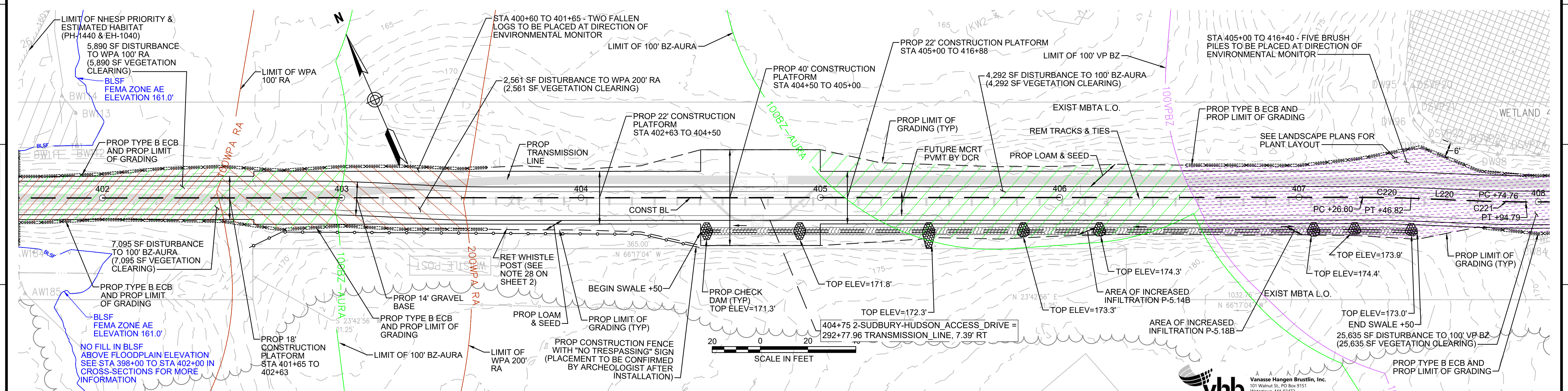
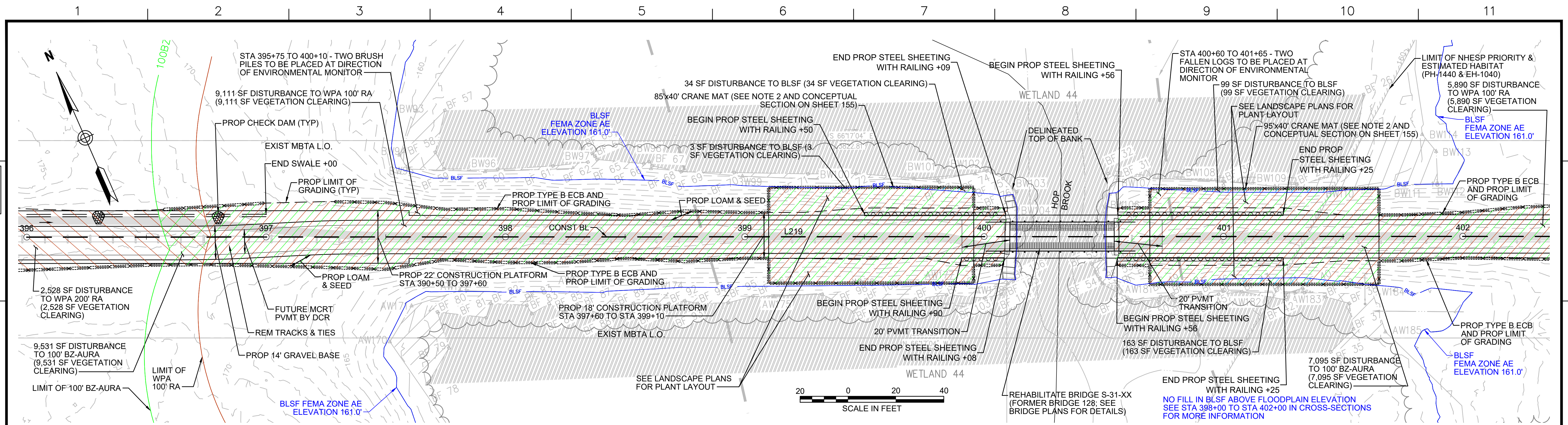


NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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



NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CONSTRUCTION PLANS						
PLAN 46 OF 347						
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. MAXIMUM CRANE PAD DIMENSIONS OF 40'X40' ARE ALLOWED AT ANY GIVEN TIME. A LONGER CRANE MAT FOOTPRINT IS SHOWN HERE TO ALLOW THE CRANE MAT CONSTRUCTION OF THE STEEL SHEETING AND BRIDGE.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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101 Walnut St., PO Box 9151
Watertown, MA 02472
617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	REVISION	BY	DATE	APPR.

EVERSOURCE

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

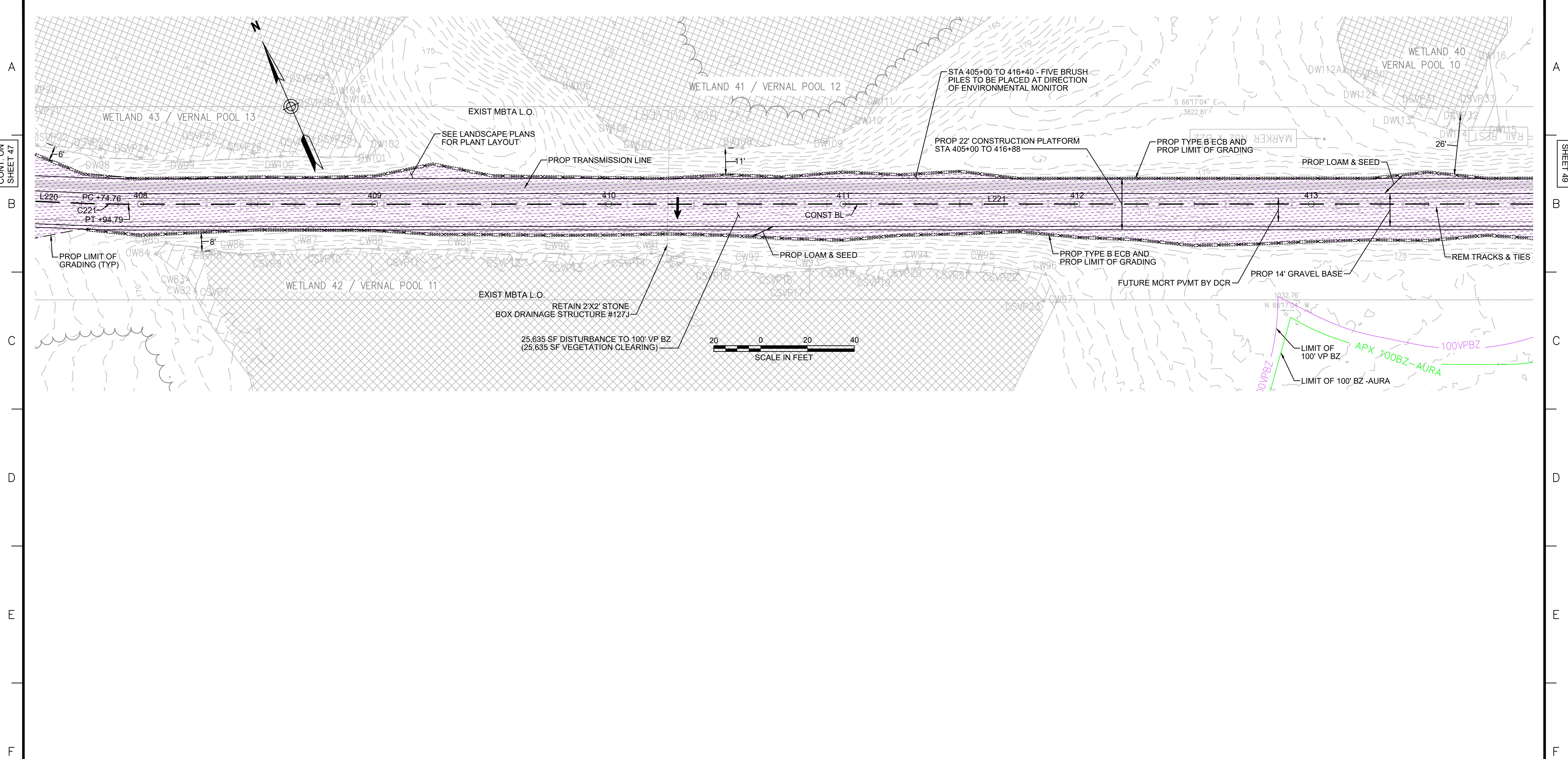
PLAN 47 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO. REV.
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CONT. ON SHEET 47

CONT. ON SHEET 49



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				

EVERSOURCE

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

PLAN 48 OF 347

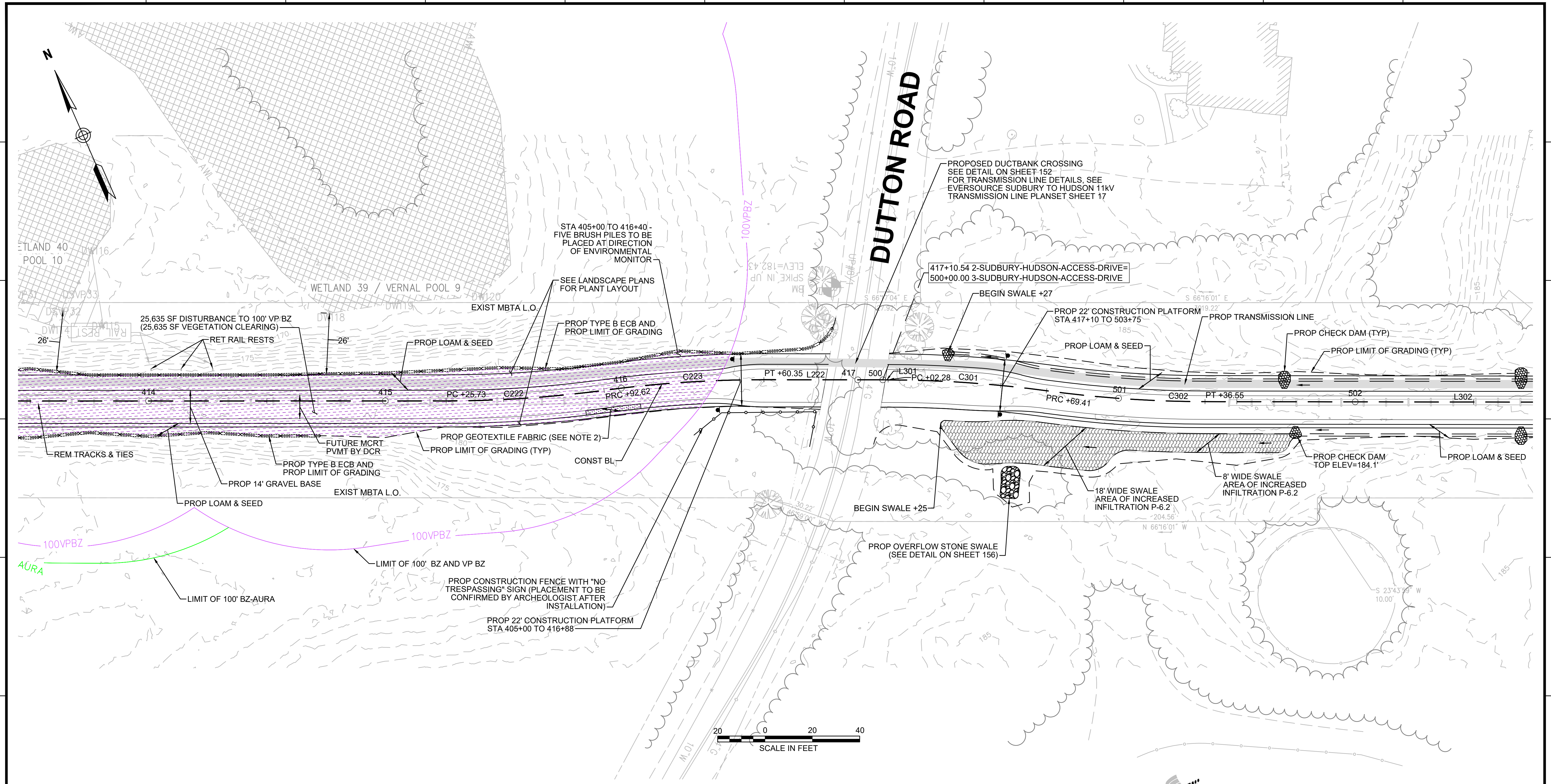
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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CONT. ON SHEET 48

CONT. ON SHEET 50

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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



N.O.	DESCRIPTION	BY	DATE	APPR.

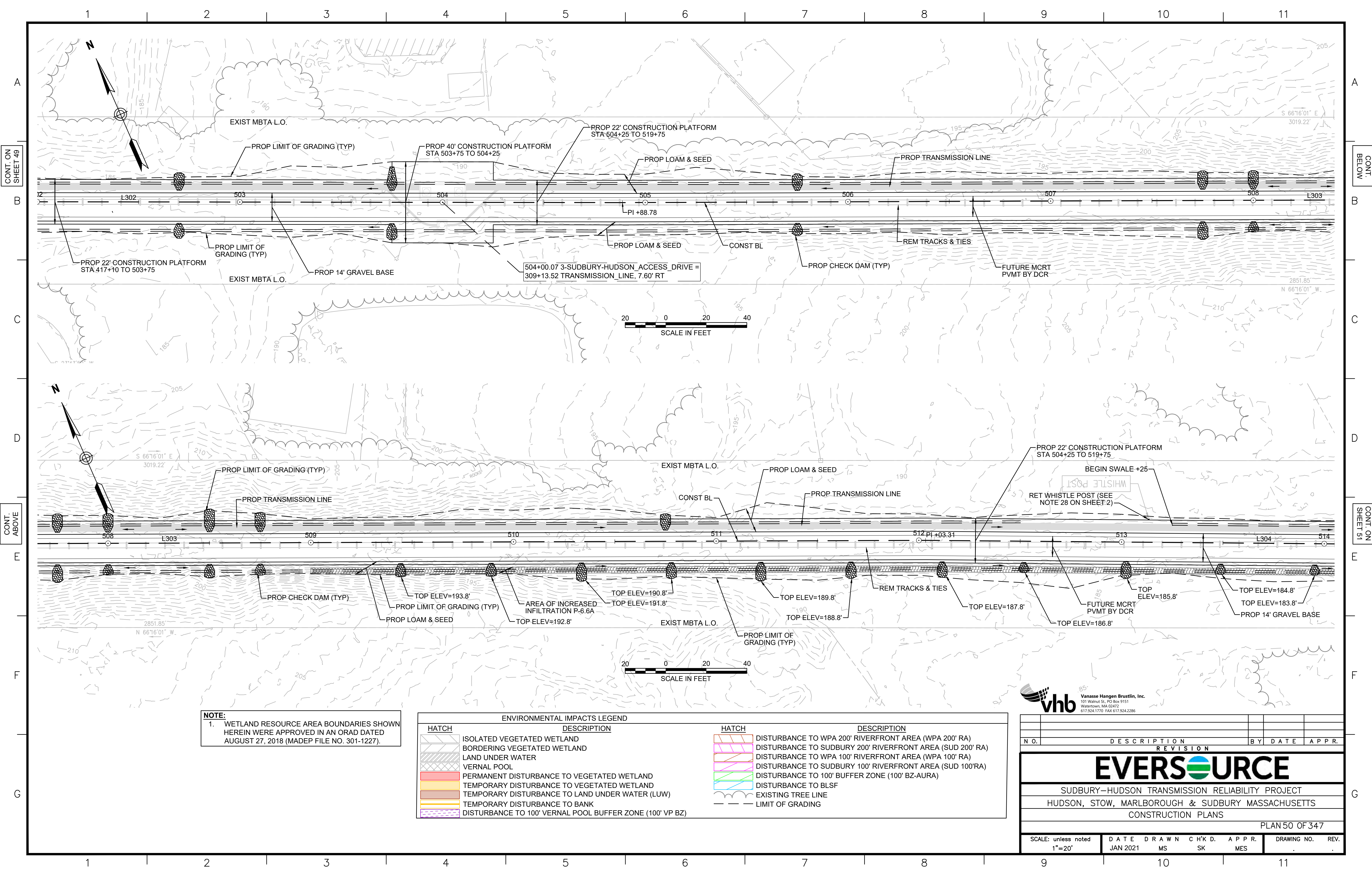
EVERSOURCE

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

PLAN 49 OF 347

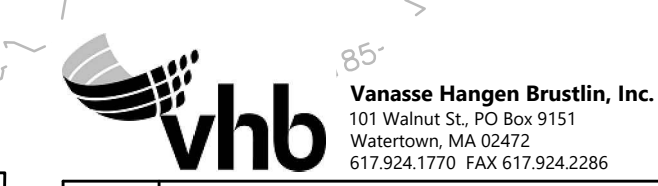
SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MS		

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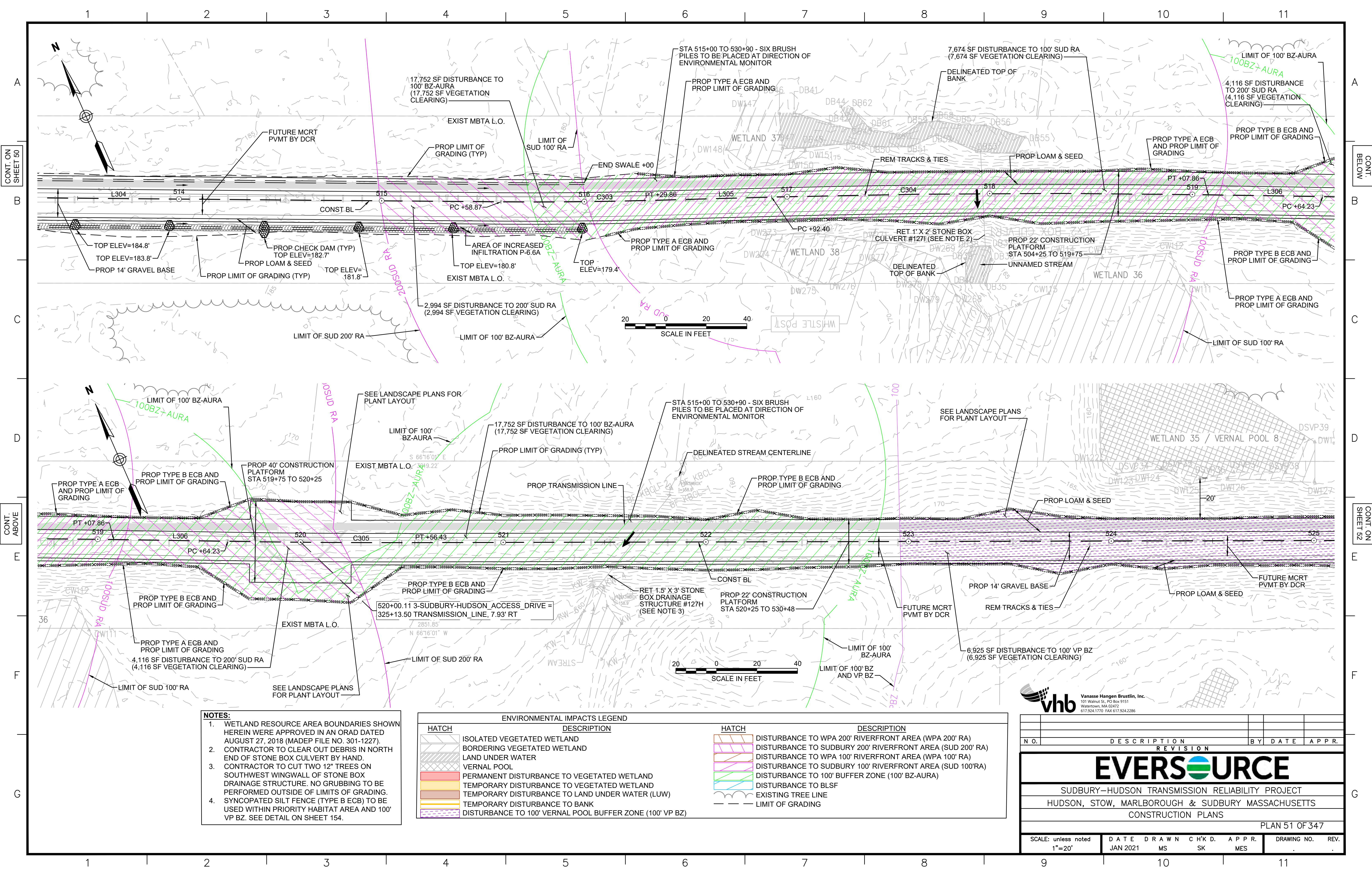


NOTE:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

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



N.O.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
PLAN 50 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.				REV.



CONT. ON SHEET 50

CONT. BELOW

CONT. ABOVE

CONT. ON SHEET 52

- 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. CONTRACTOR TO CUT TWO 12" TREES ON SOUTHWEST WINGWALL OF STONE BOX DRAINAGE STRUCTURE. NO GRUBBING TO BE PERFORMED OUTSIDE OF LIMITS OF GRADING.
 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 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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 Watertown, MA 02472
 617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	REVISION	BY	DATE	APPR.

EVERSOURCE

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

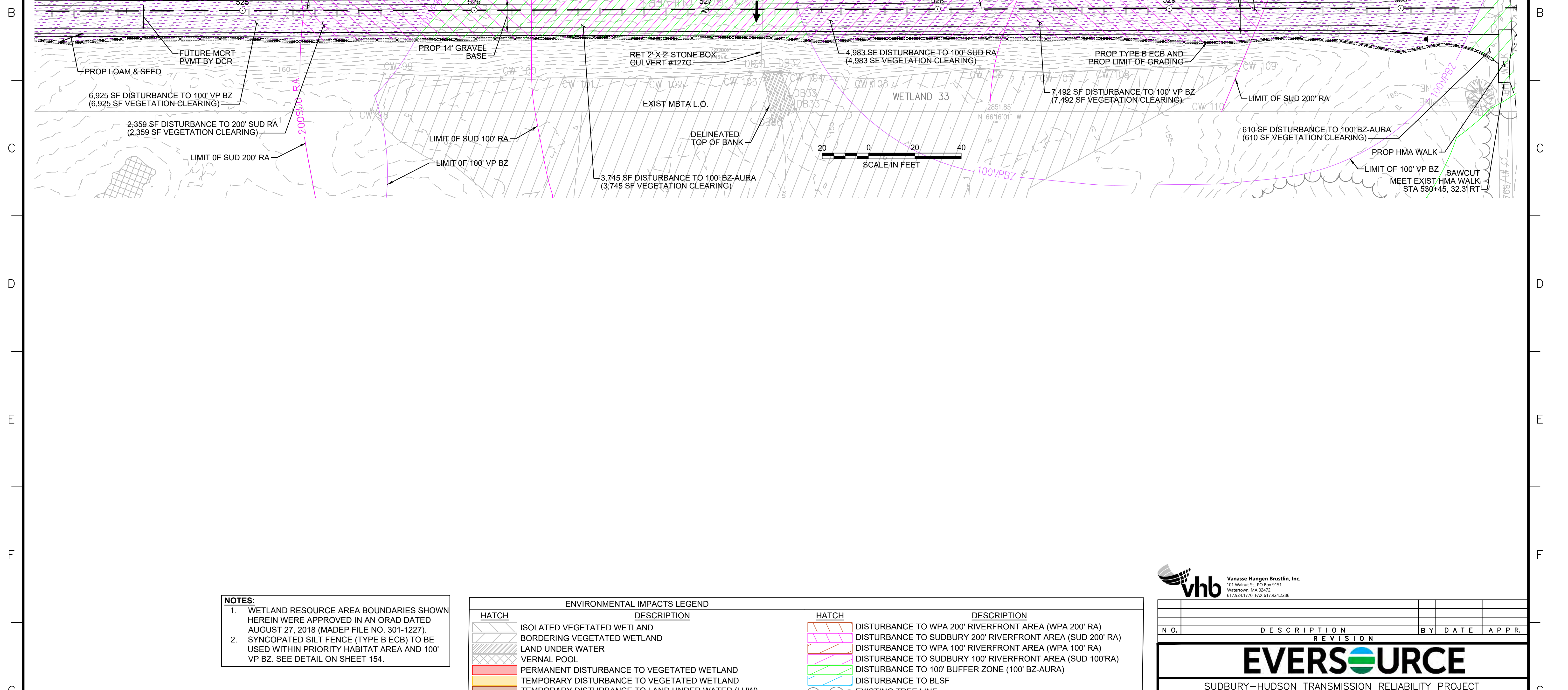
PLAN 51 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	A.P.P.R. MES	DRAWING NO.	REV.
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CONT. ON SHEET 51

CONT. ON SHEET 53



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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 Watertown, MA 02472
 617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	BY	DATE	APPR.

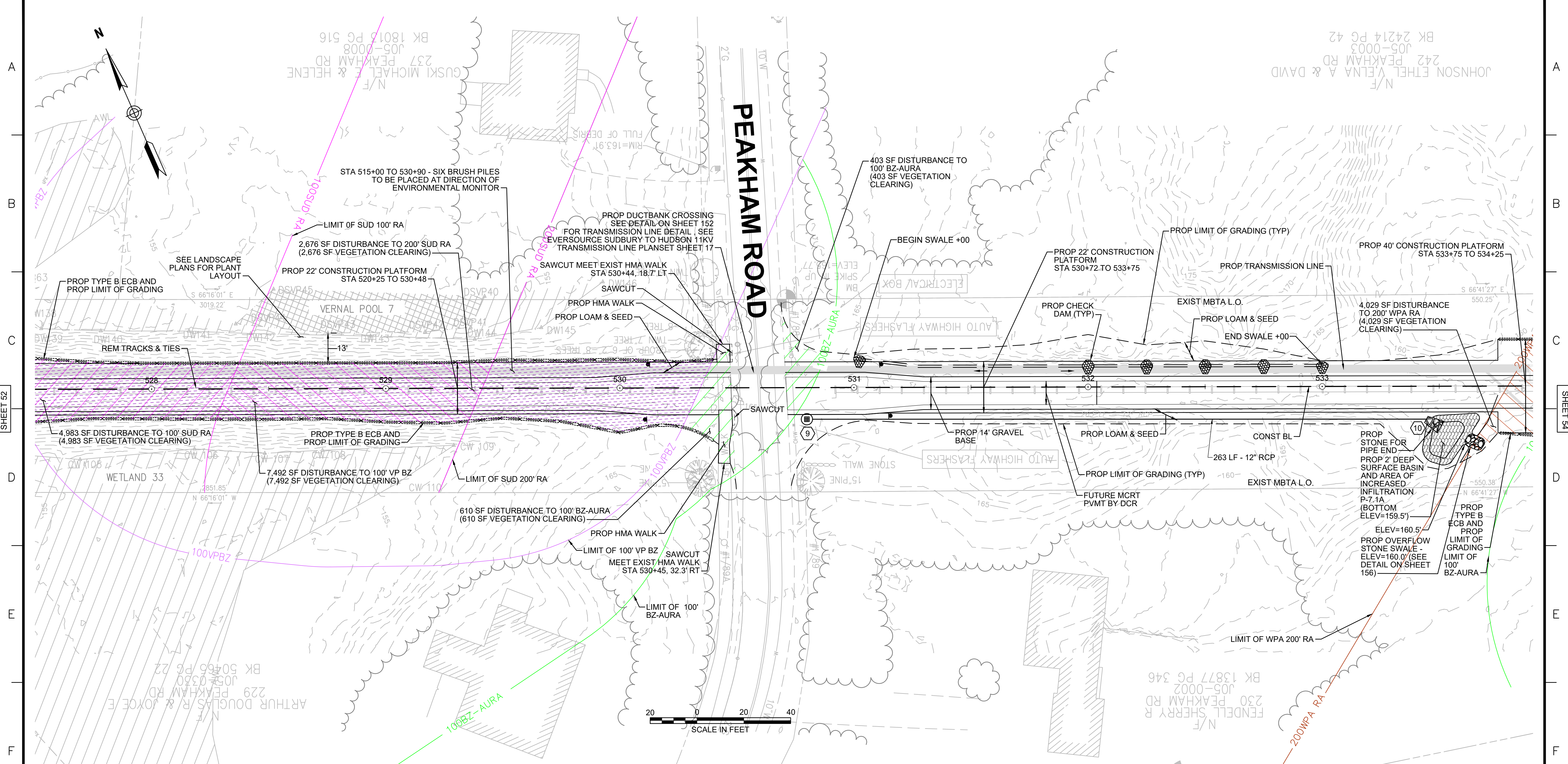
EVERSOURCE

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

PLAN 52 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

NO.	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)		

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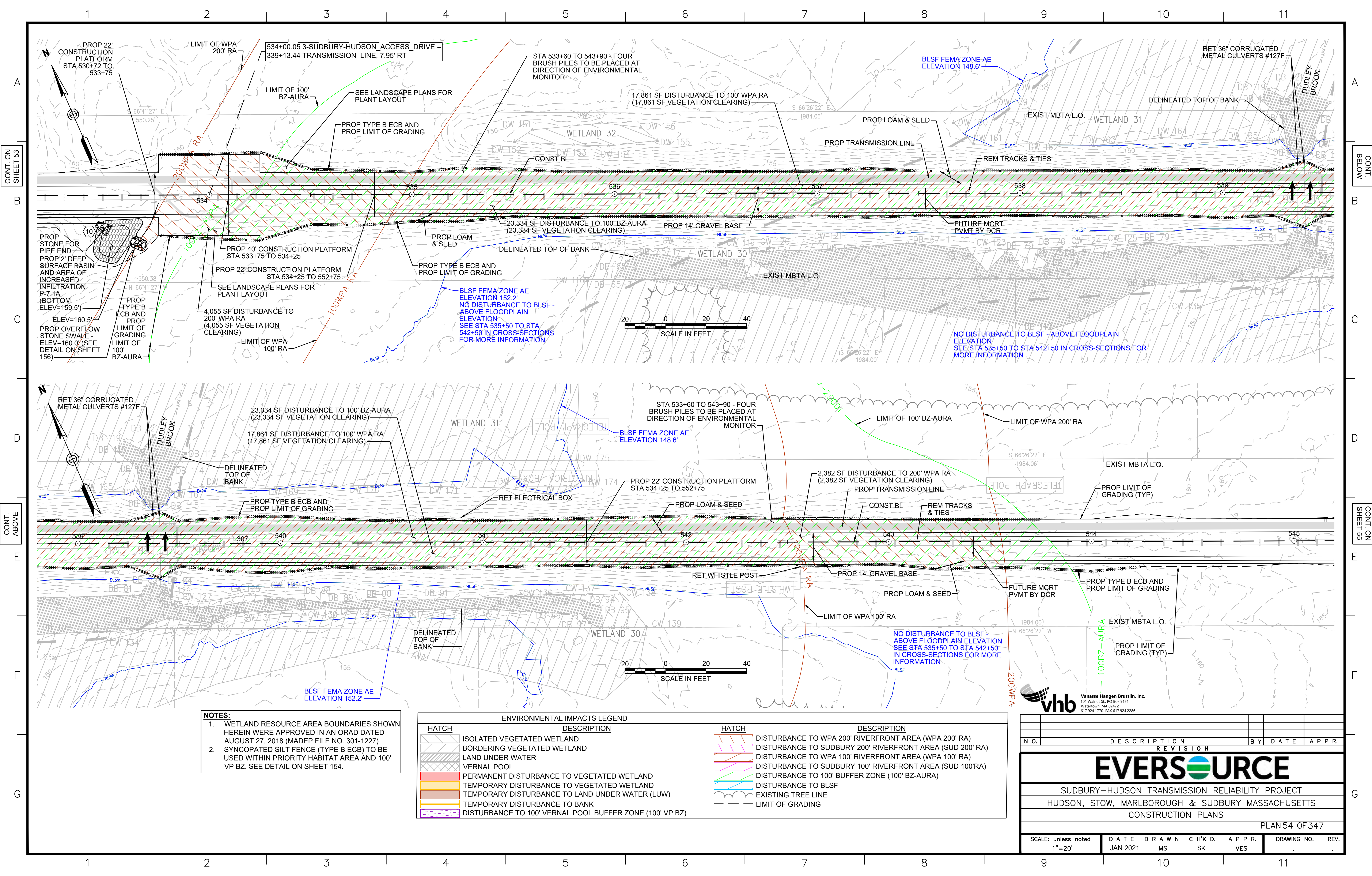
NO.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 53 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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CONT. ON SHEET 53

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CONT. ON SHEET 55

- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227)
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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



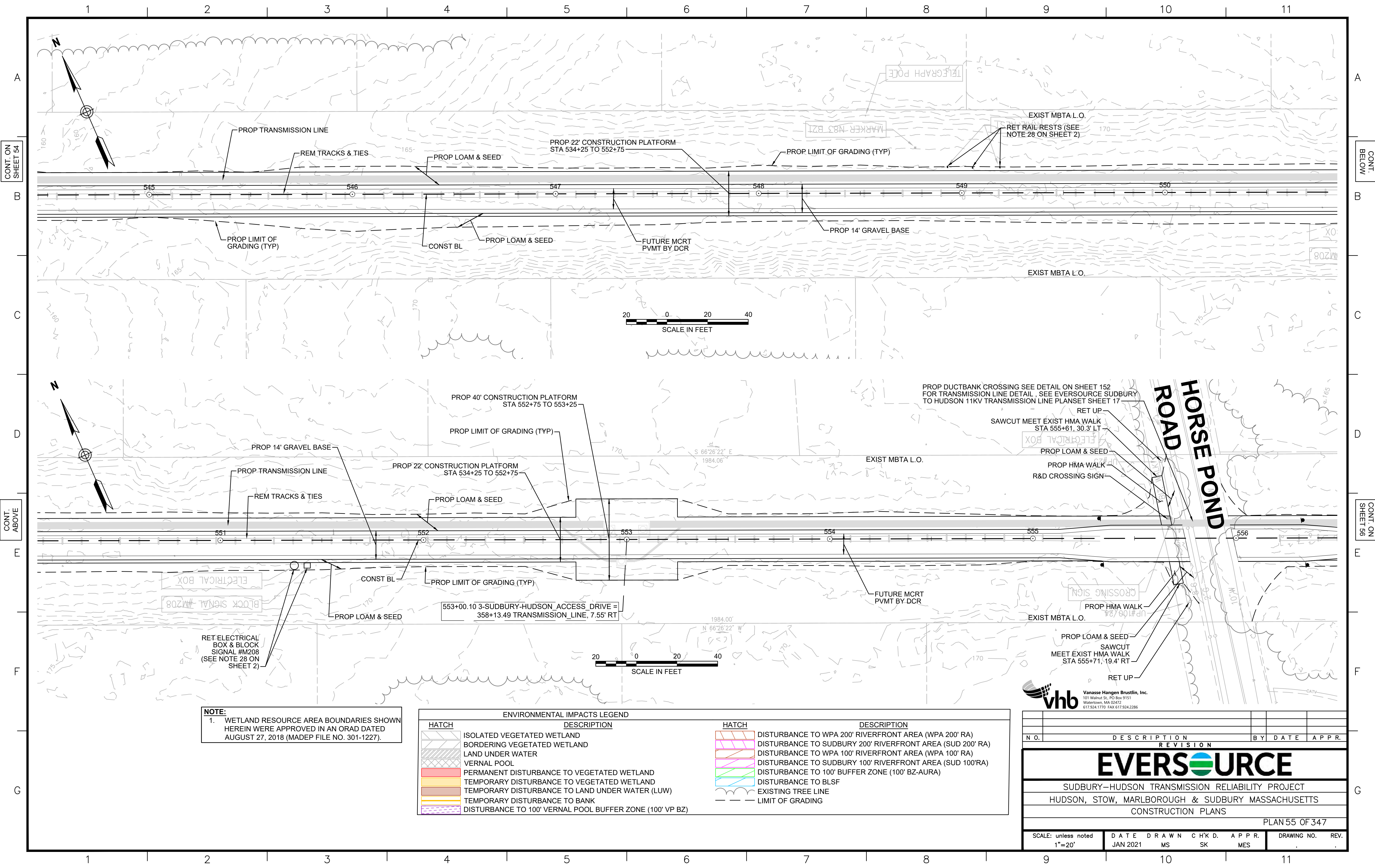
N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 54 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	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 AUGUST 27, 2018 (MADEP FILE NO. 301-1227).

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

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 Watertown, MA 02472
 617.254.1770 FAX 617.254.2286

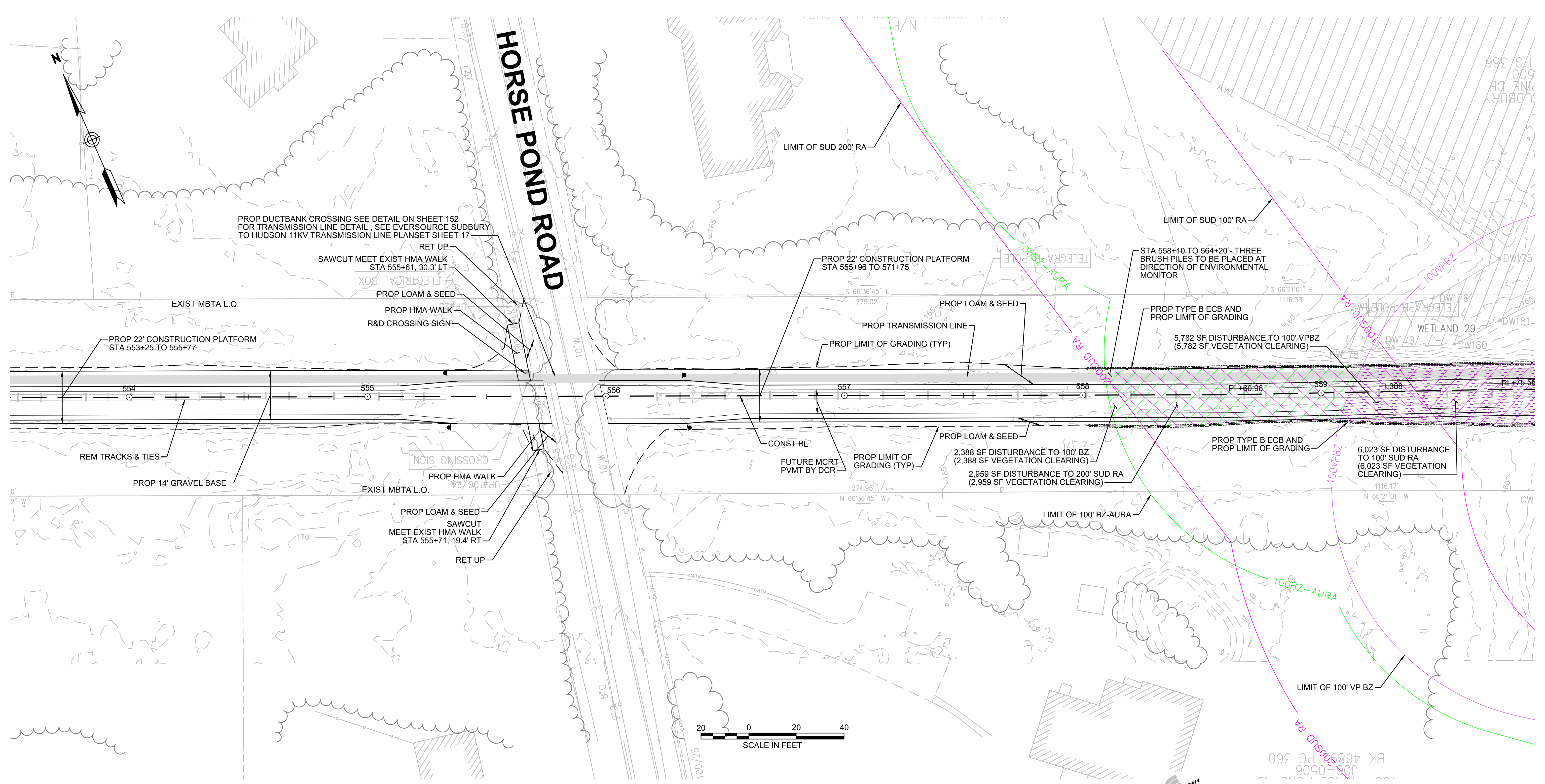
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
PLAN 55 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
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HORSE POND ROAD



CONT. ON SHEET 55

CONT. ON SHEET 57



NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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)		



N.O.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
PLAN 56 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
				DRAWING NO. REV.

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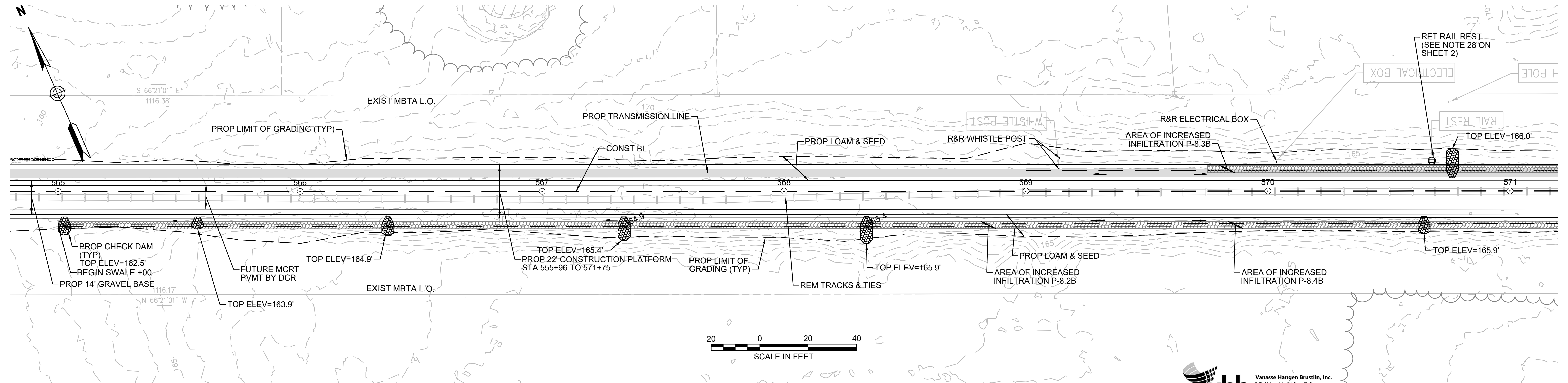
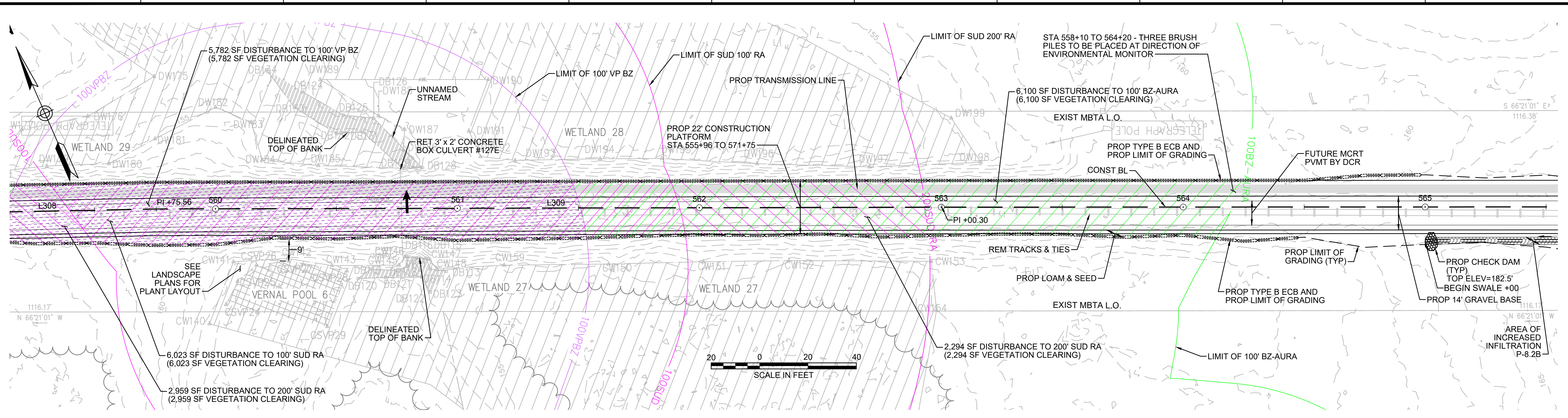
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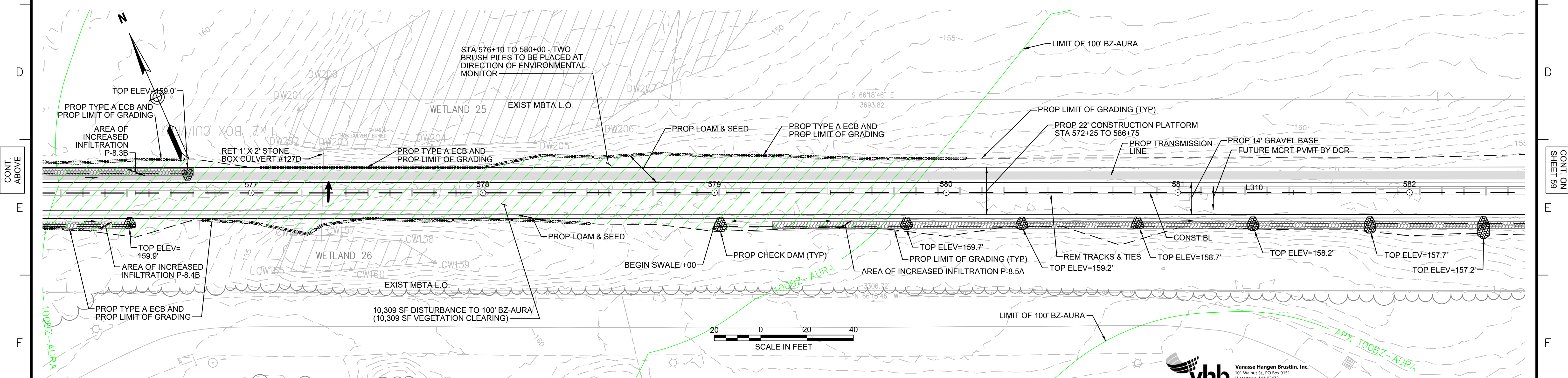
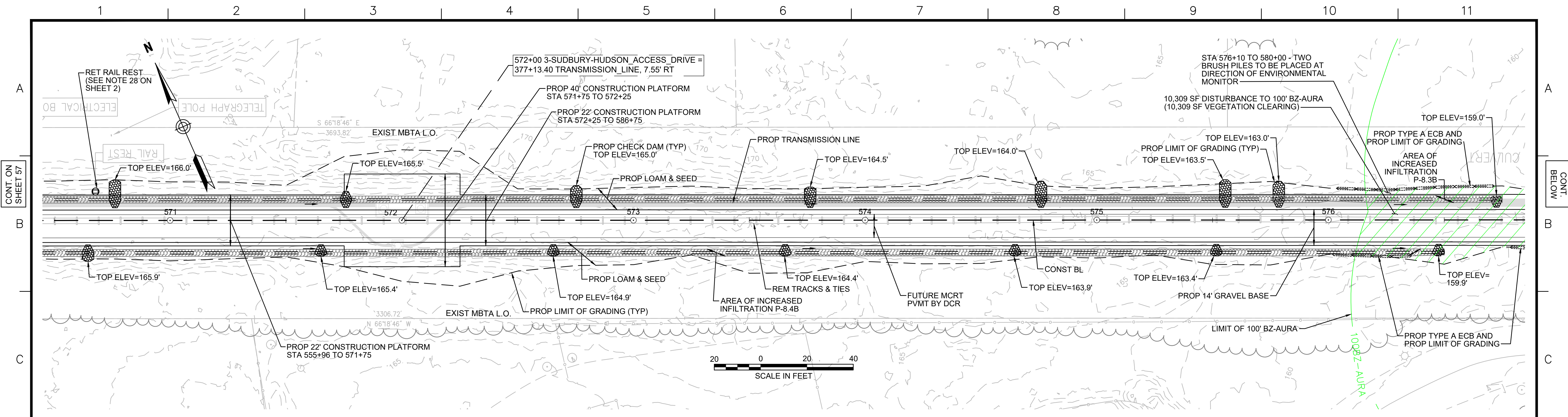
NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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



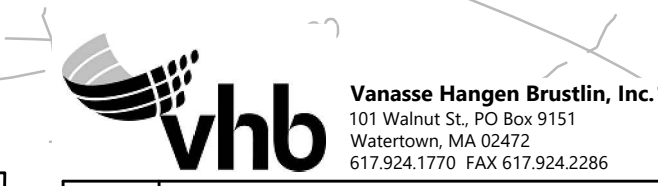
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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
PLAN 57 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.				REV.

1 2 3 4 5 6 7 8 9 10 11



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

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



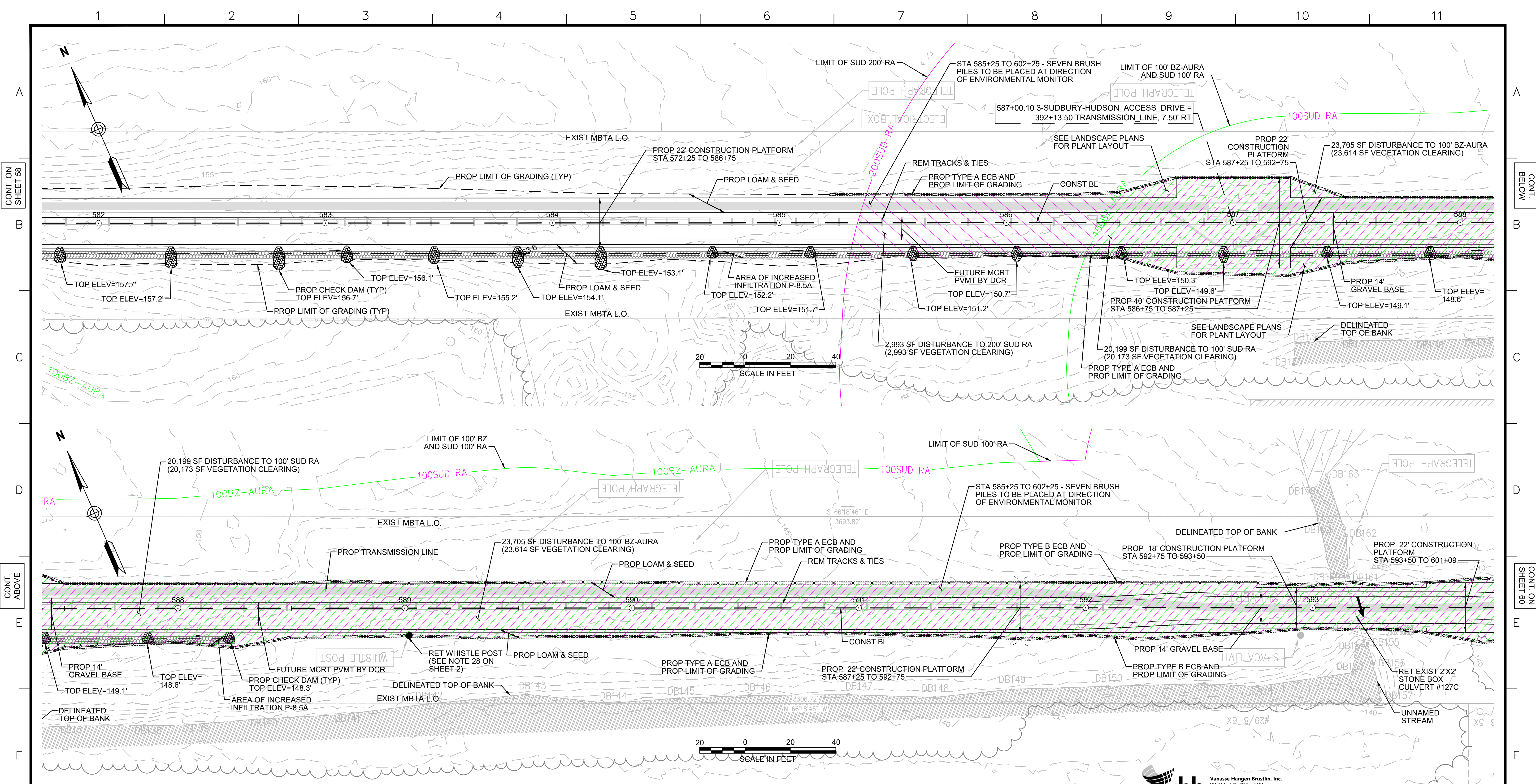
N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 58 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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NOTES:
 1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. SYNCPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

vhb Vanasse Hangen Brustlin, Inc.
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 Watertown, MA 02472
 617.254.1770 FAX 617.254.2286

N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

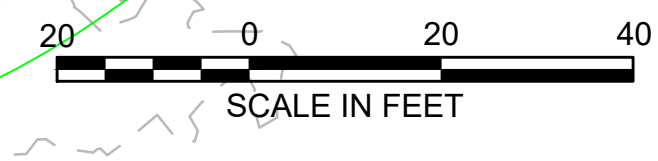
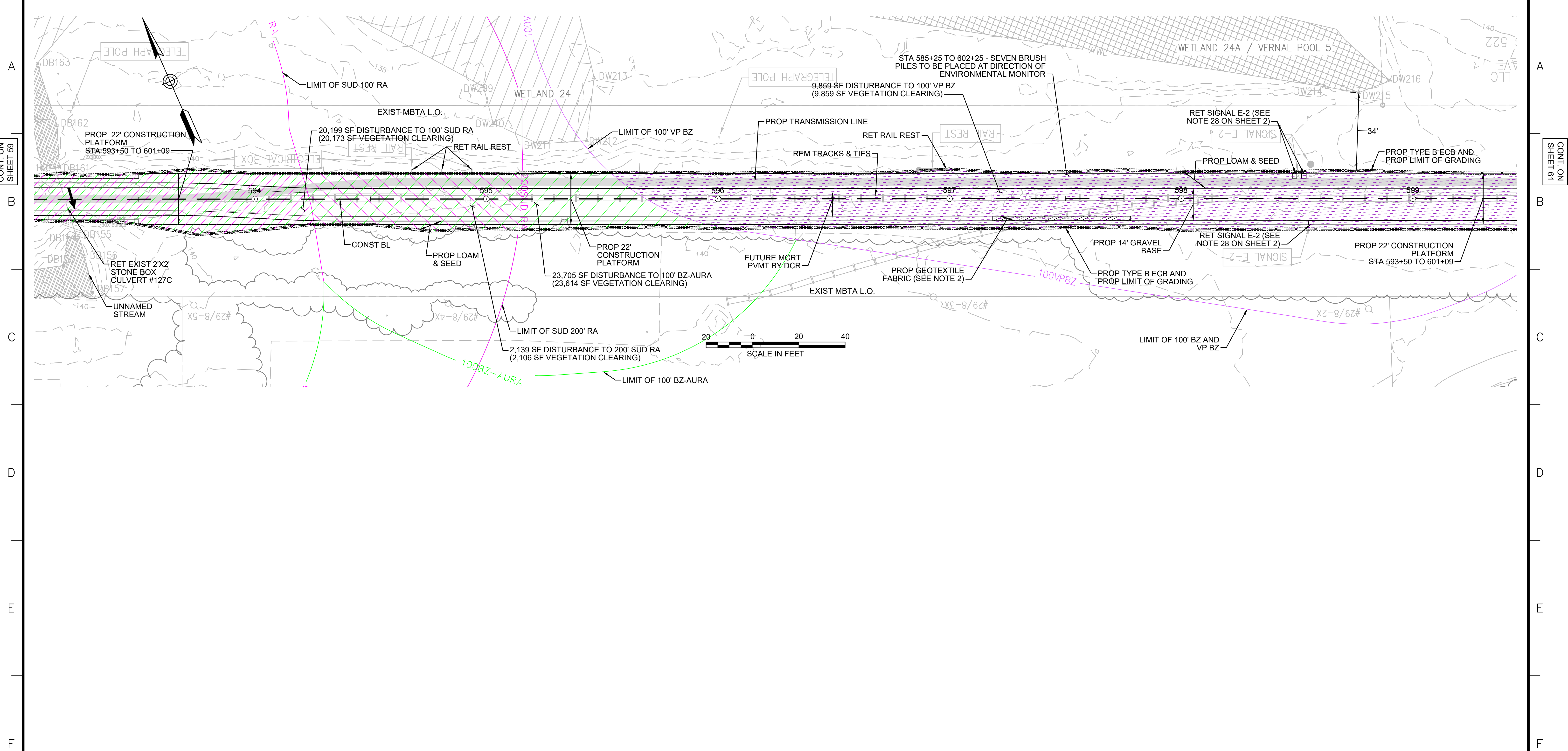
PLAN 59 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	A.P.P.R. MES	DRAWING NO.	REV.
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1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 59

CONT. ON SHEET 61



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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)		



N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 60 OF 347

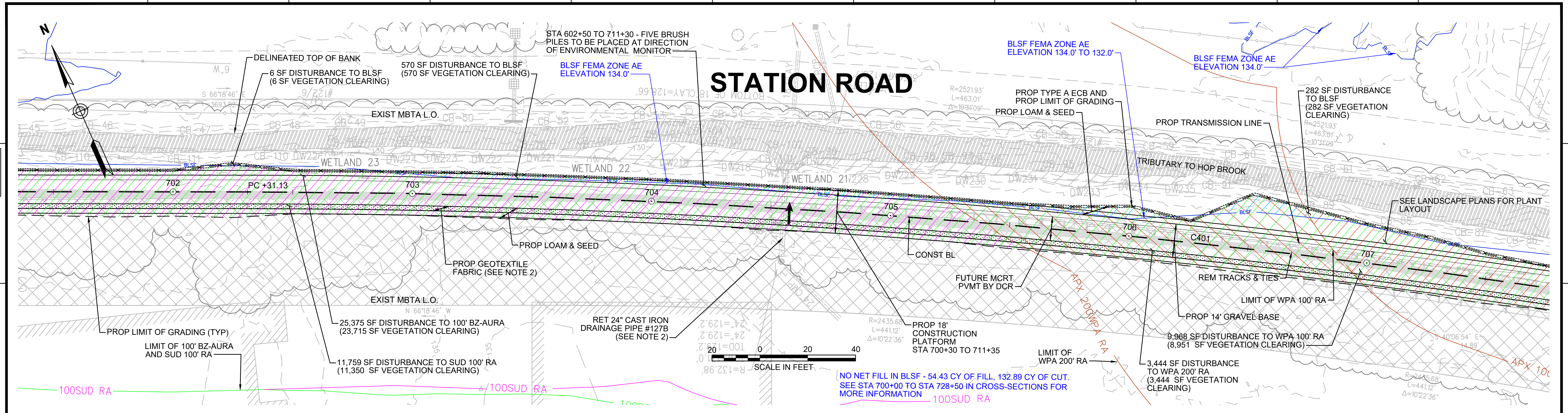
SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MES		

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 61

CONT. ON SHEET 63



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE (SEE DETAIL ON SHEET 157).

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

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Watertown, MA 02472
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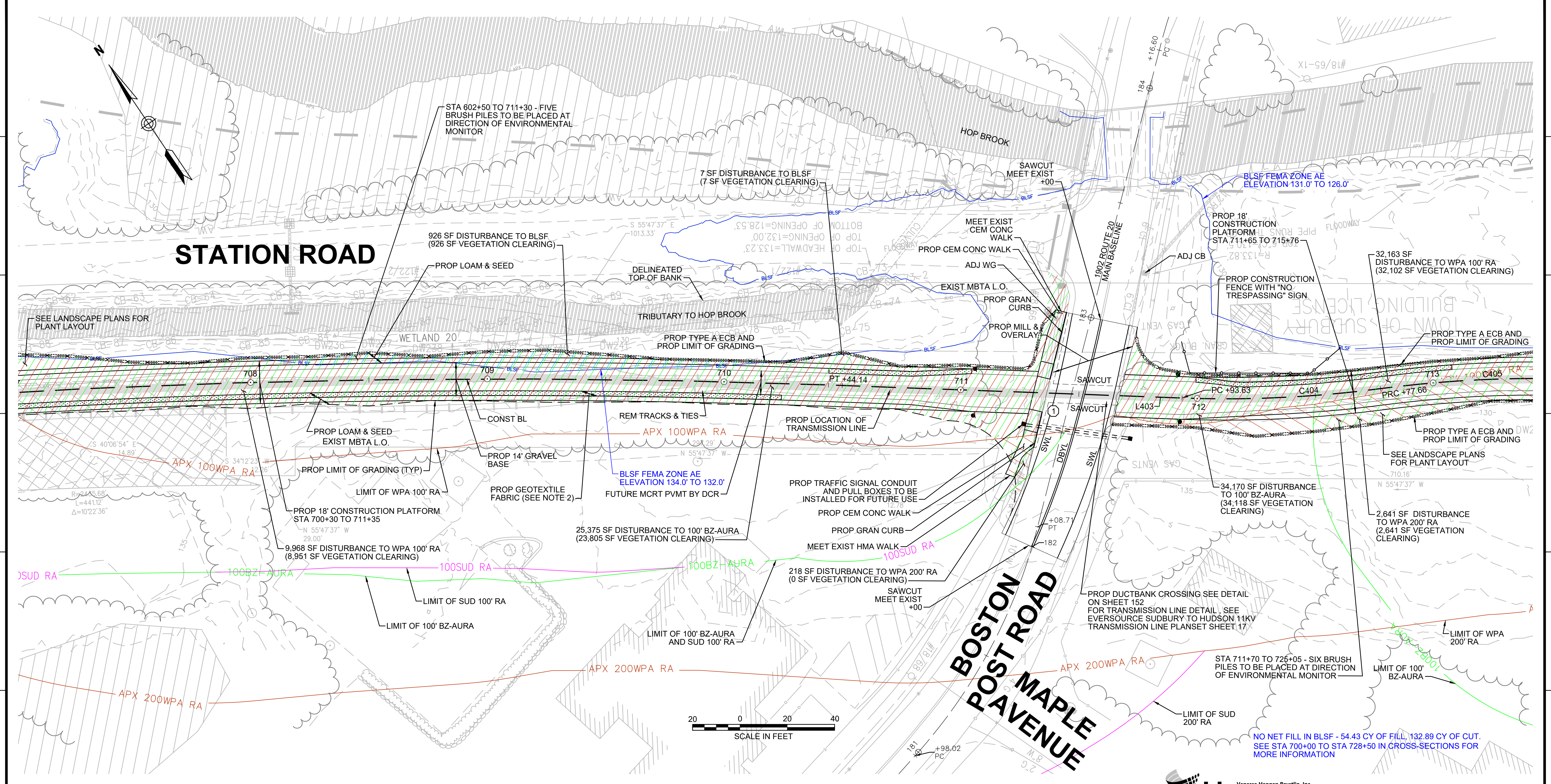
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REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION PLANS				
PLAN 62 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS
DRAWING NO.	REV.			

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STATION ROAD

**BOSTON POST ROAD
MAPLE AVENUE**

- 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

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

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



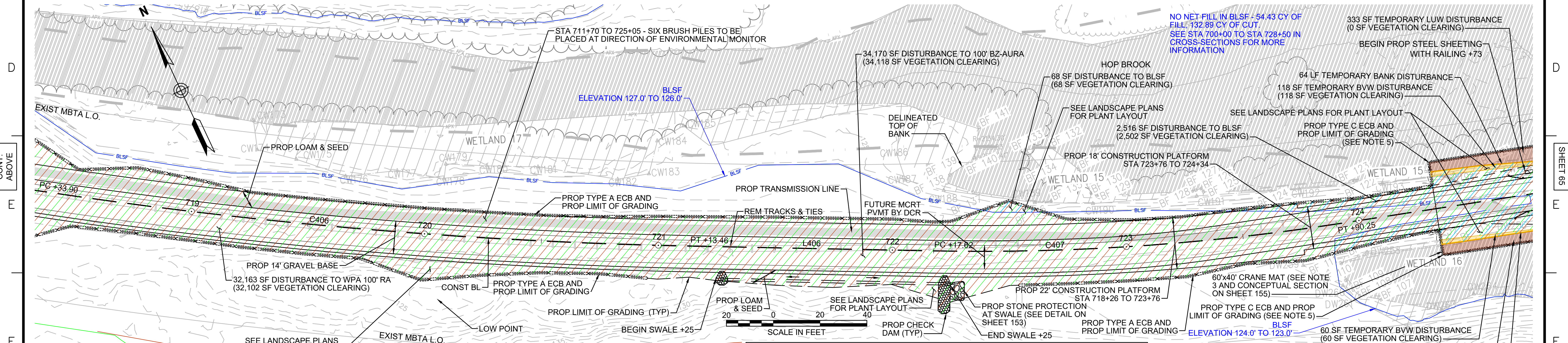
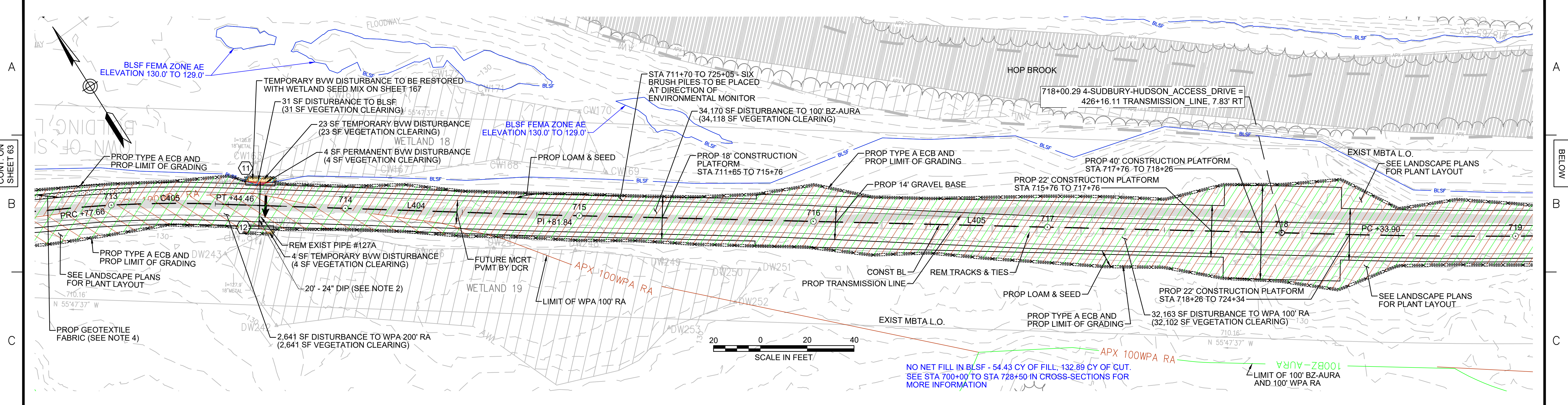
REVISION			
N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

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

PLAN 63 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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HATCH	ENVIRONMENTAL IMPACTS LEGEND DESCRIPTION	HATCH	DESCRIPTION
[Hatched Box]	ISOLATED VEGETATED WETLAND	[Hatched Box]	DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)
[Hatched Box]	BORDERING VEGETATED WETLAND	[Hatched Box]	DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA)
[Hatched Box]	LAND UNDER WATER	[Hatched Box]	DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)
[Hatched Box]	VERNAL POOL	[Hatched Box]	DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA)
[Hatched Box]	PERMANENT DISTURBANCE TO VEGETATED WETLAND	[Hatched Box]	DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)
[Hatched Box]	TEMPORARY DISTURBANCE TO VEGETATED WETLAND	[Hatched Box]	DISTURBANCE TO BLSF
[Hatched Box]	TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)	[Hatched Box]	EXISTING TREE LINE
[Hatched Box]	TEMPORARY DISTURBANCE TO BANK	[Hatched Box]	LIMIT OF GRADING
[Hatched Box]	DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)		

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

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

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Watertown, MA 02472
617.224.1770 FAX 617.224.2296

NO.	DESCRIPTION	REVISION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 64 OF 348

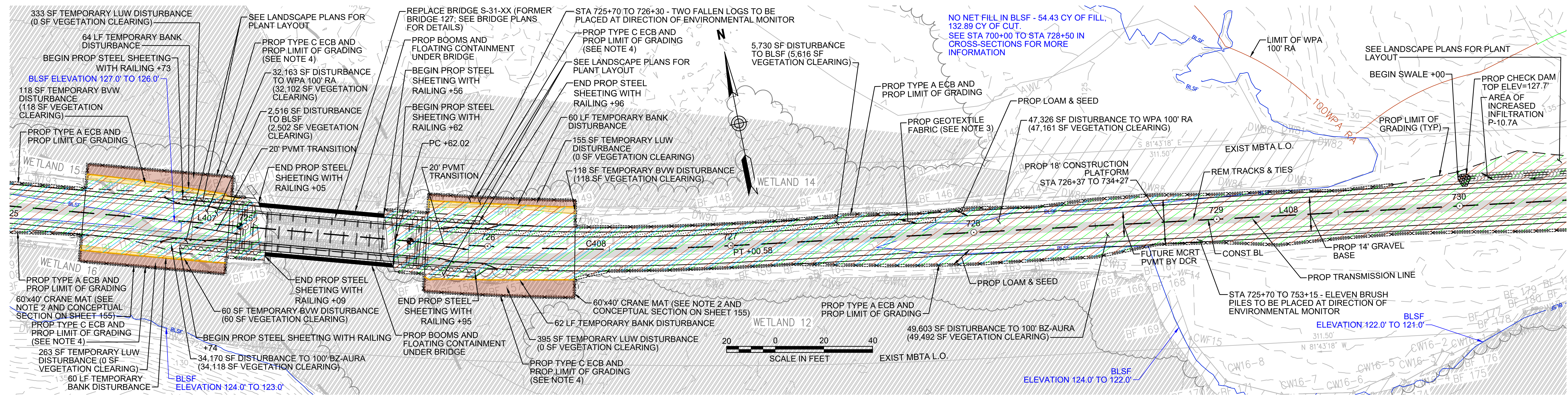
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	A.P.P.R. MS	DRAWING NO. 	REV.
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CONT. ON SHEET 64

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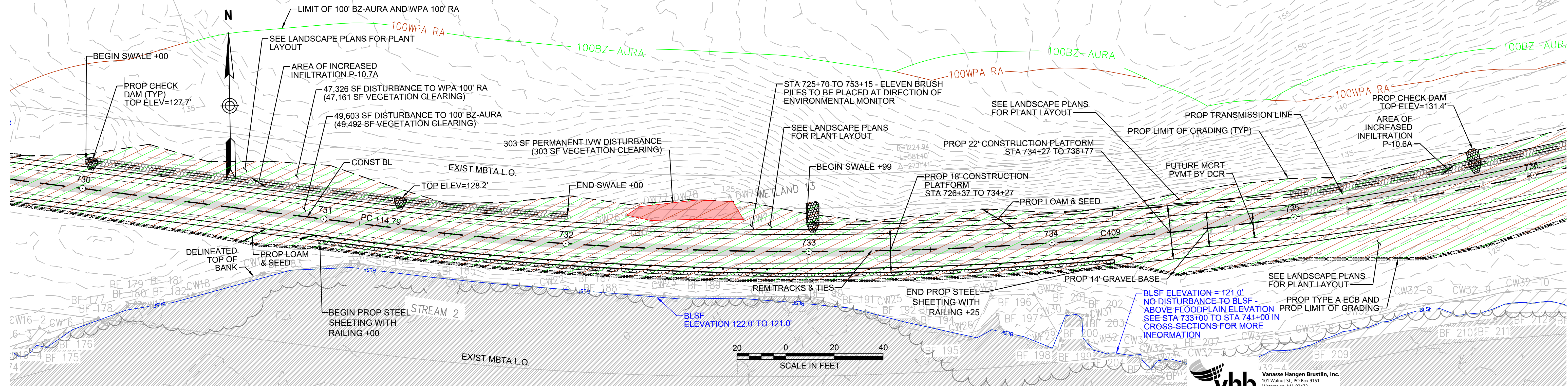


CONT. ABOVE

CONT. ON SHEET 66

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

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

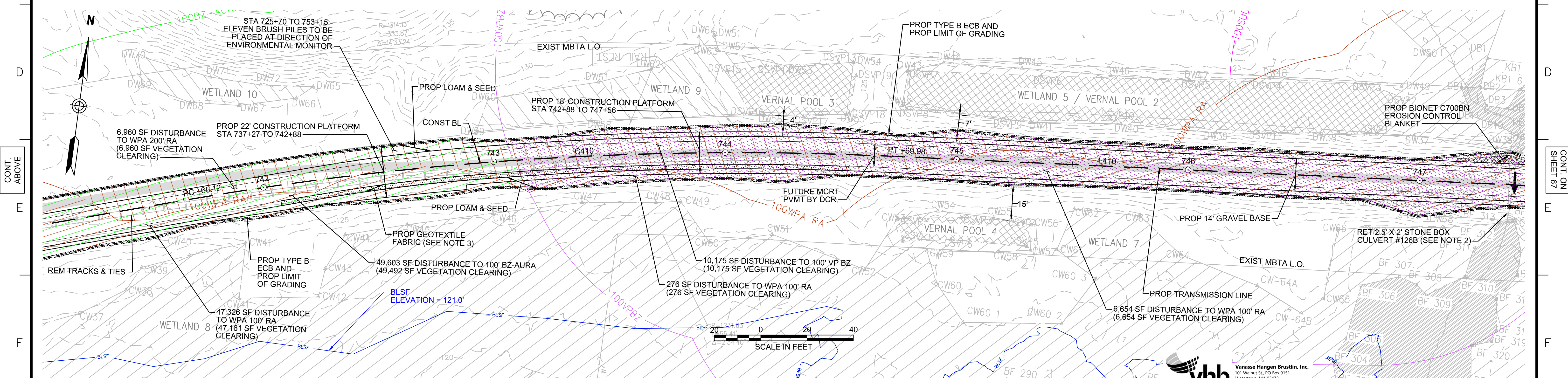
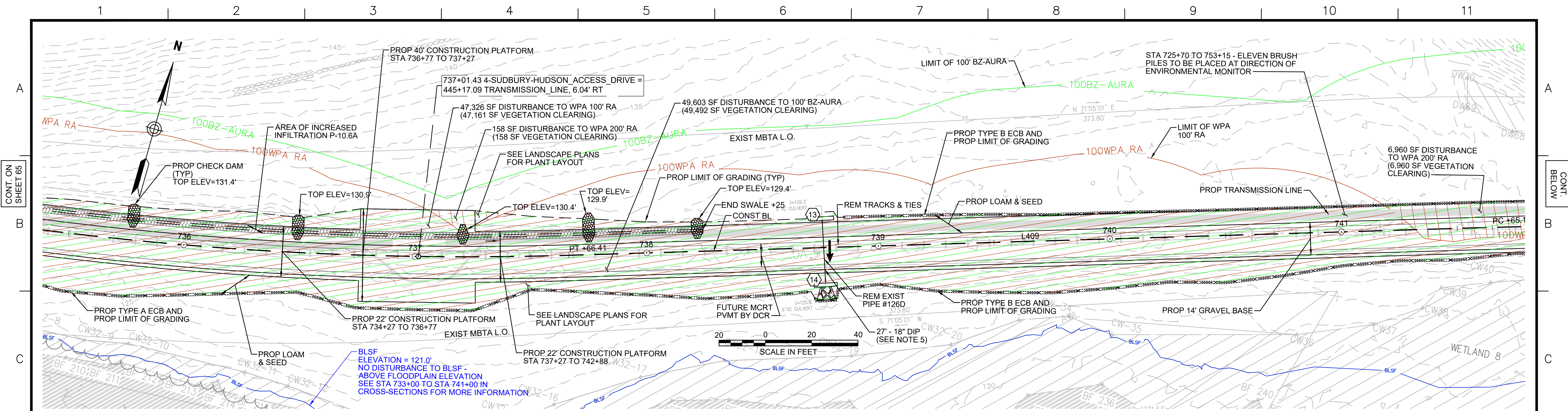
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101 Walnut St., PO Box 9151
Watertown, MA 02472
617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS
PLAN 65 OF 347

SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MS		



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

HATCH	DESCRIPTION	HATCH	DESCRIPTION
[Hatched 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)		

- 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. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.
 4. TRANSMISSION LINE TO RUN UNDERNEATH DRAINAGE PIPE (SEE DETAIL ON SHEET 157).

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 Watertown, MA 02472
 617-224-1770 FAX 617-224-2286

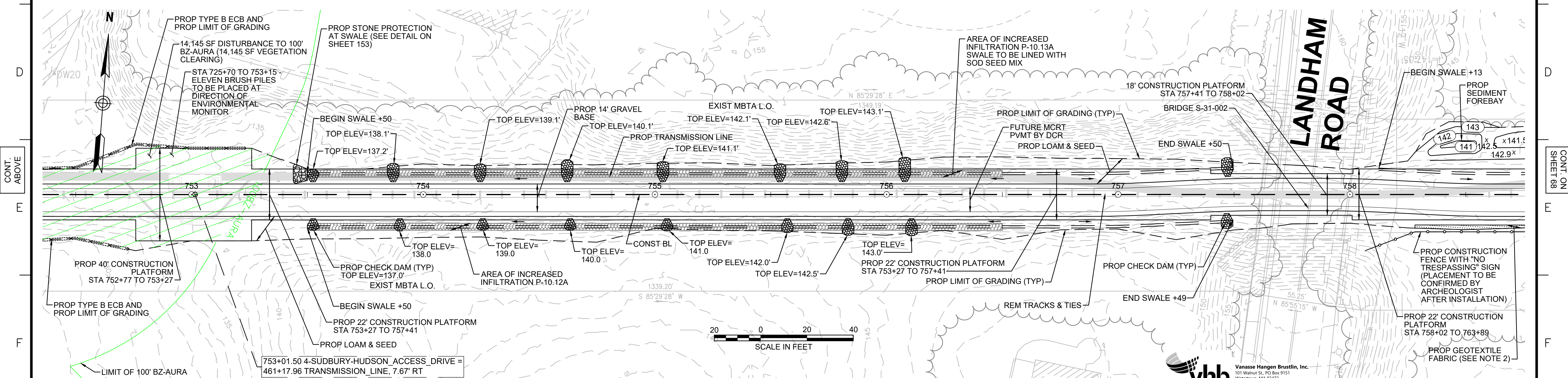
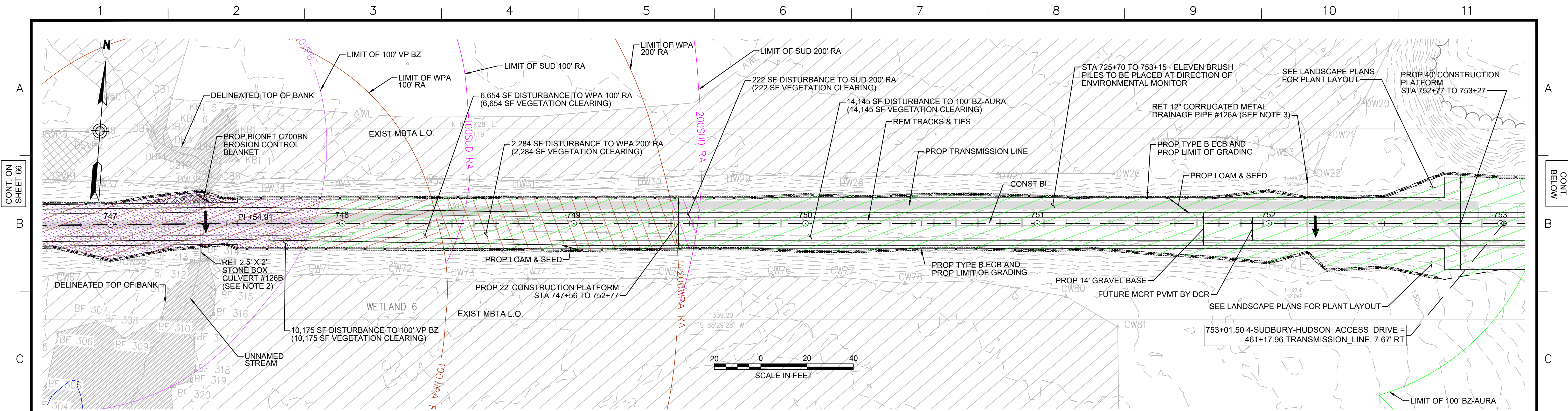
NO.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 66 OF 347

SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MS		



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO CUT VEGETATION ON NORTHEAST WINGWALL OF STONE BOX CULVERT. NO GRUBBING SHALL BE PERFORMED OUTSIDE LIMITS OF GRADING.
 3. CONTRACTOR TO CLEAR SEDIMENT IN DRAINAGE PIPE BY HAND.
 4. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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

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

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 101 Walnut St., PO Box 9151
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N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 67 OF 347

SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MS		

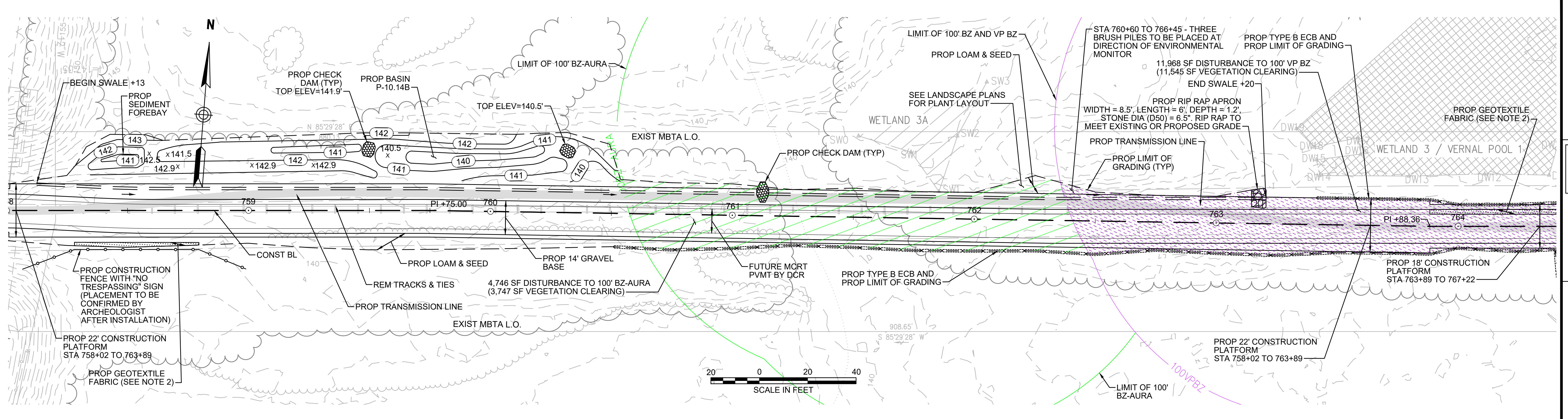
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CONT. ON SHEET 67

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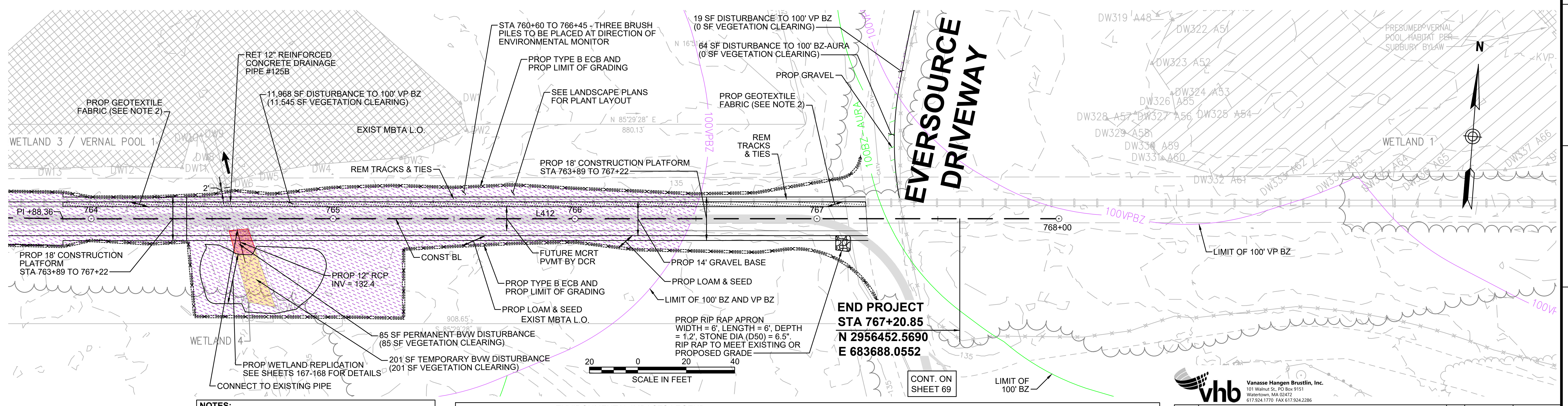
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

ENVIRONMENTAL IMPACTS LEGEND		DESCRIPTION	
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
617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

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

PLAN 68 OF 347

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

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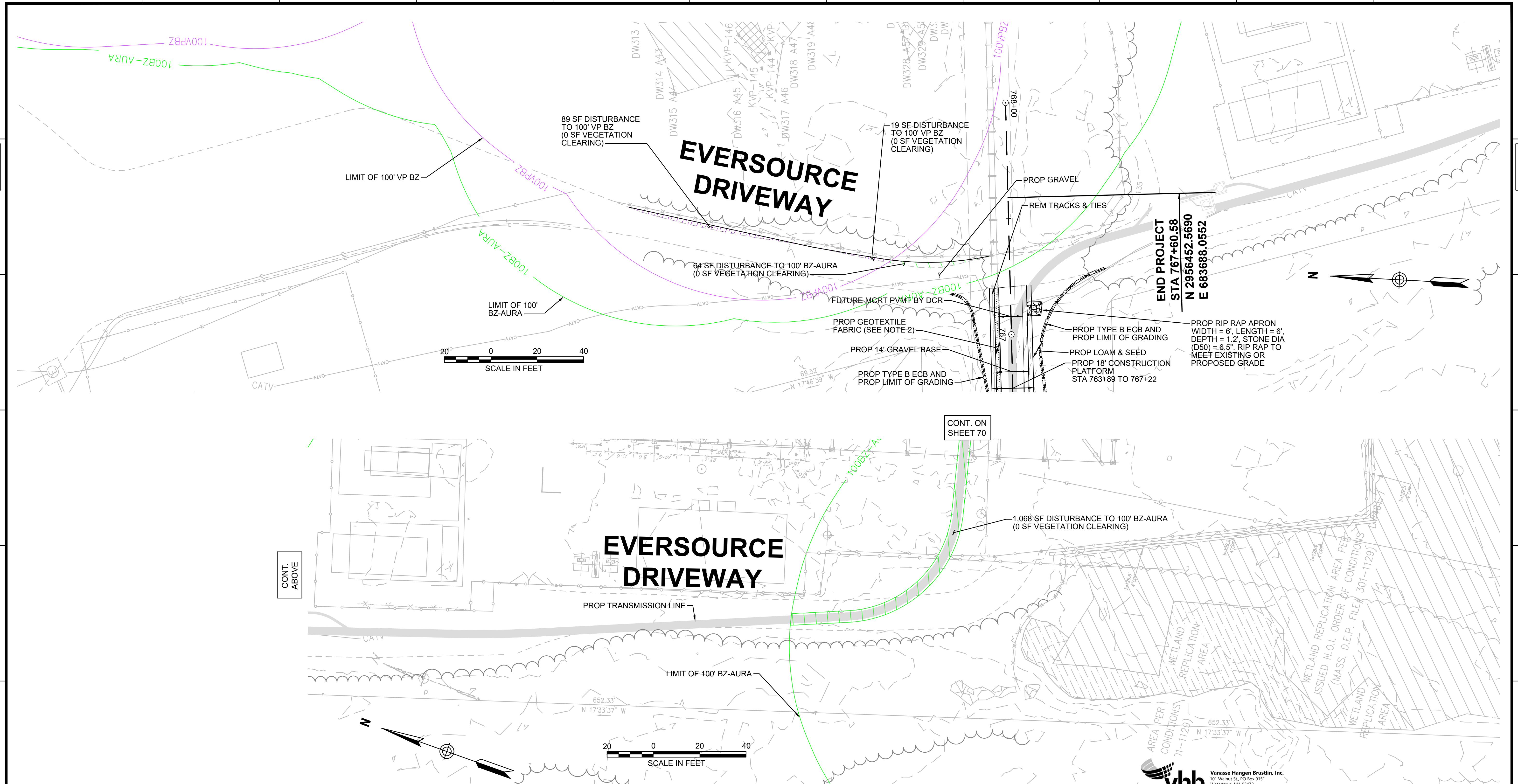
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- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

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



N.O.	DESCRIPTION	BY	DATE	APPR.

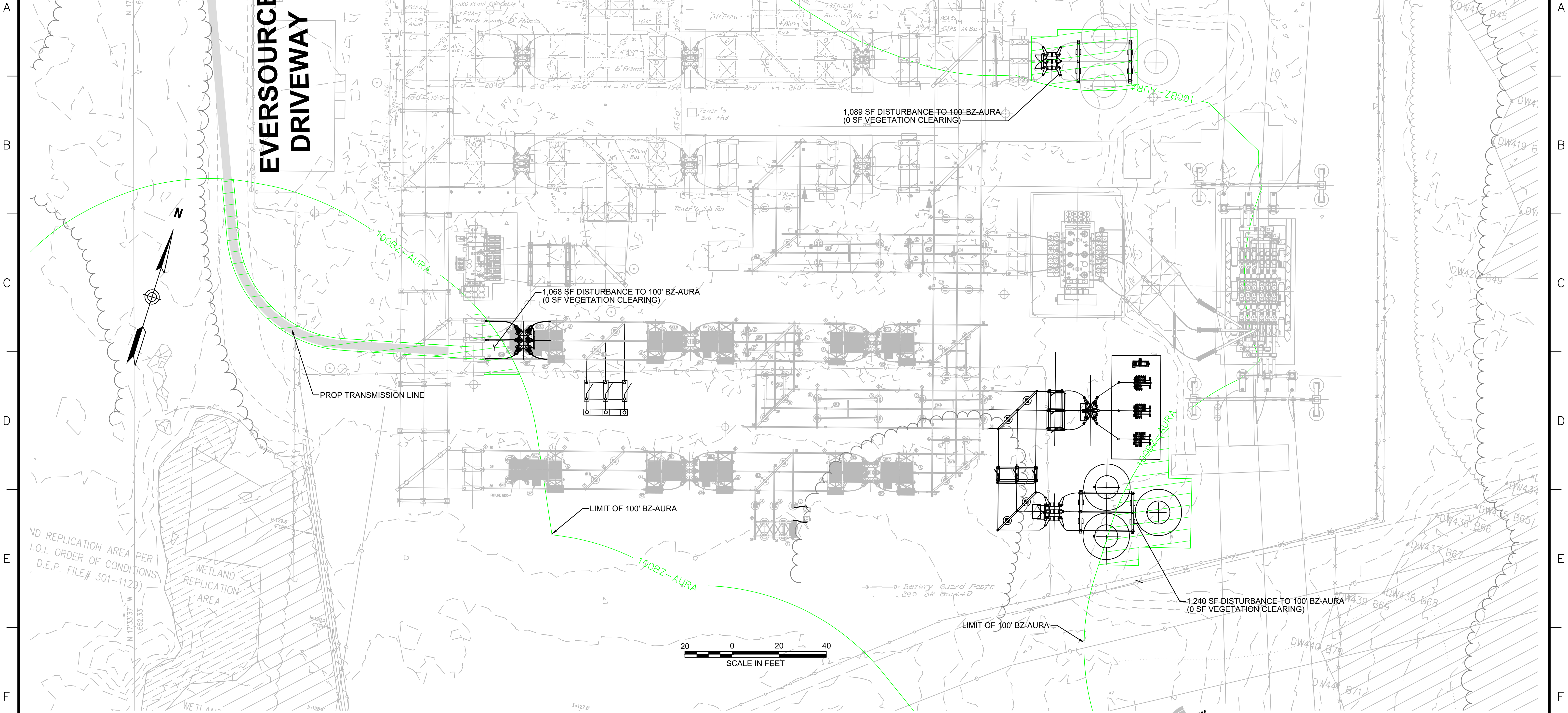
EVERSOURCE

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

PLAN 69 OF 347

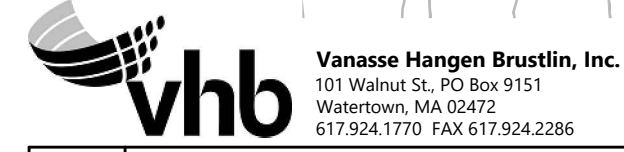
SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MS		

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

ENVIRONMENTAL IMPACTS LEGEND		ENVIRONMENTAL IMPACTS LEGEND	
HATCH	DESCRIPTION	HATCH	DESCRIPTION
[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)		



N.O.	DESCRIPTION	BY	DATE	APPR.

REVISION

EVERSOURCE

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

PLAN 70 OF 347

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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2-SUDBURY-HUDSON-ACCESS-DRIVE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L201	300+00.00	2966202.1444	657150.6659		S66°17'15"E 569.94'	305+69.94	2965972.9435	657672.4880
C201	305+69.94	2965972.9435	657672.4880	R=500.00' Δ=2°19'14" L=20.25' T=10.13'		305+90.19	2965965.1773	657691.1890
L202	305+90.19	2965965.1773	657691.1890		S68°36'29"E 31.19'	306+21.38	2965953.7996	657720.2333
C202	306+21.38	2965953.7996	657720.2333	R=500.00' Δ=2°17'26" L=19.99' T=10.00'		306+41.37	2965946.1385	657738.6949
L203	306+41.37	2965946.1385	657738.6949		S66°19'03"E 730.01'	313+71.38	2965652.9160	658407.2248
C203	313+71.38	2965652.9160	658407.2248	R=500.00' Δ=2°17'26" L=19.99' T=10.00'		313+91.37	2965644.5231	658425.3653
L204	313+91.37	2965644.5231	658425.3653		S64°01'36"E 29.68'	314+21.05	2965631.5251	658452.0469
C204	314+21.05	2965631.5251	658452.0469	R=500.00' Δ=2°17'04" L=19.94' T=9.97'		314+40.99	2965623.1534	658470.1391
L205	314+40.99	2965623.1534	658470.1391		S66°18'41"E 2288.82'	337+29.81	2964703.5807	660566.1091
C205	337+29.81	2964703.5807	660566.1091	R=500.00' Δ=4°31'29" L=39.49' T=19.75'		337+69.29	2964686.3060	660601.6044
L206	337+69.29	2964686.3060	660601.6044		S61°47'12"E 11.20'	337+80.49	2964681.0125	660611.4712
C206	337+80.49	2964681.0125	660611.4712	R=500.00' Δ=4°31'29" L=39.49' T=19.75'		338+19.98	2964663.7378	660646.9665
L207	338+19.98	2964663.7378	660646.9665		S66°18'41"E 209.72'	340+29.70	2964579.4775	660839.0199
C207	340+29.70	2964579.4775	660839.0199	R=500.00' Δ=4°17'58" L=37.52' T=18.77'		340+67.22	2964565.7061	660873.9108
L208	340+67.22	2964565.7061	660873.9108		S70°36'39"E 15.82'	340+83.04	2964560.4544	660888.8329
C208	340+83.04	2964560.4544	660888.8329	R=500.00' Δ=4°17'58" L=37.52' T=18.77'		341+20.56	2964546.6830	660923.7239
L209	341+20.56	2964546.6830	660923.7239		S66°18'41"E 359.47'	344+80.03	2964402.2587	661252.9083
C209	344+80.03	2964402.2587	661252.9083	R=500.00' Δ=4°34'26" L=39.91' T=19.97'		345+19.95	2964387.6974	661290.0610
L210	345+19.95	2964387.6974	661290.0610		S70°53'07"E 10.12'	345+30.07	2964384.3829	661299.6249
C210	345+30.07	2964384.3829	661299.6249	R=500.00' Δ=4°34'16" L=39.89' T=19.96'		345+69.96	2964369.8317	661336.7545
L211	345+69.96	2964369.8317	661336.7545		S66°18'51"E 159.98'	347+29.94	2964305.5655	661483.2559
C211	347+29.94	2964305.5655	661483.2559	R=500.00' Δ=4°23'59" L=38.39' T=19.21'		347+68.33	2964288.8077	661517.7892
L212	347+68.33	2964288.8077	661517.7892		S61°54'53"E 13.79'	347+82.12	2964282.3158	661529.9549

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



NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION LINE RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CONSTRUCTION BASELINE DATA						
PLAN 72 OF 347						
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO.	REV.
	JAN 2021	MS	SK	MES		

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



N O.	DESCRIPTION	BY	DATE	APP R.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION BASELINE DATA				
PLAN 73 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APP R. MES
DRAWING NO.	REV.			

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4-SUDBURY-HUDSON_ACCESS_DRIVE CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L401	700+00.00	2957366.0527	677304.8213		S66°14'03"E 231.13'	702+31.13	2957272.9091	677516.3488
C401	702+31.13	2957272.9091	677516.3488	R=3750.00' Δ=12°25'19" L=813.02' T=408.11'		710+44.14	2956867.4824	678219.2284
L403	710+44.14	2956867.4824	678219.2284		S53°48'44"E 149.49'	711+93.63	2956779.2208	678339.8770
C404	711+93.63	2956779.2208	678339.8770	R=500.00' Δ=9°37'46" L=84.03' T=42.12'		712+77.66	2956735.5245	678411.5389
C405	712+77.66	2956735.5245	678411.5389	R=500.00' Δ=7°39'17" L=66.80' T=33.45'		713+44.46	2956701.7603	678469.1214
L404	713+44.46	2956701.7603	678469.1214		S55°47'13"E 137.37'	714+81.84	2956624.5189	678582.7225
L405	714+81.84	2956624.5189	678582.7225		S56°18'15"E 352.06'	718+33.90	2956429.2013	678875.6350
C406	718+33.90	2956429.2013	678875.6350	R=2150.00' Δ=7°27'00" L=279.56' T=139.98'		721+13.46	2956289.6424	679117.6429
L406	721+13.46	2956289.6424	679117.6429		S63°45'15"E 104.16'	722+17.62	2956243.5785	679211.0686
C407	722+17.62	2956243.5785	679211.0686	R=1000.00' Δ=9°53'27" L=172.63' T=86.53'		723+90.25	2956180.9486	679371.7031
L407	723+90.25	2956180.9486	679371.7031		S73°38'42"E 171.77'	725+62.02	2956132.5797	679536.5242
C408	725+62.02	2956132.5797	679536.5242	R=975.00' Δ=8°08'34" L=138.56' T=69.40'		727+00.58	2956103.1249	679671.8017
L408	727+00.58	2956103.1249	679671.8017		S81°47'16"E 414.21'	731+14.79	2956043.9591	680081.7601
C409	731+14.79	2956043.9591	680081.7601	R=1450.00' Δ=25°44'54" L=651.62' T=331.41'		737+66.41	2956096.4751	680725.7736
L409	737+66.41	2956096.4751	680725.7736		N72°27'50"E 398.71'	741+65.12	2956216.6094	681105.9571
C410	741+65.12	2956216.6094	681105.9571	R=1400.00' Δ=12°28'35" L=304.86' T=153.03'		744+69.98	2956276.2156	681404.3155
L410	744+69.98	2956276.2156	681404.3155		N84°56'25"E 284.93'	747+54.91	2956301.3441	681688.1339
L412	763+88.36	2956423.2838	683316.9838		N85°29'15"E 411.64'	768+00.00	2956455.6704	683727.3522

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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION BASELINE DATA				
PLAN 74 OF 347				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APP R. MES
DRAWING NO.	REV.			

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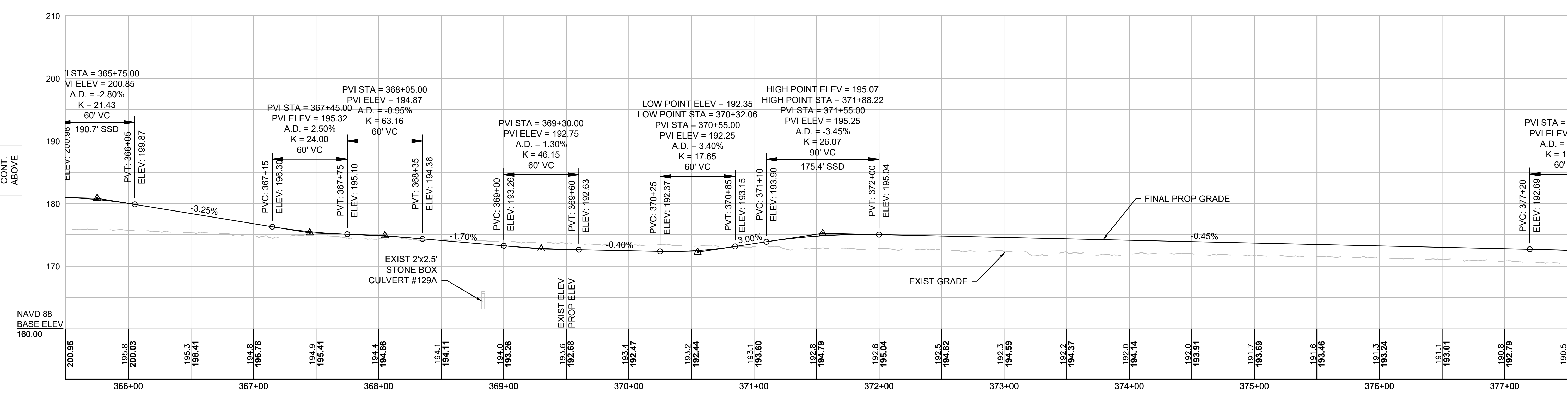
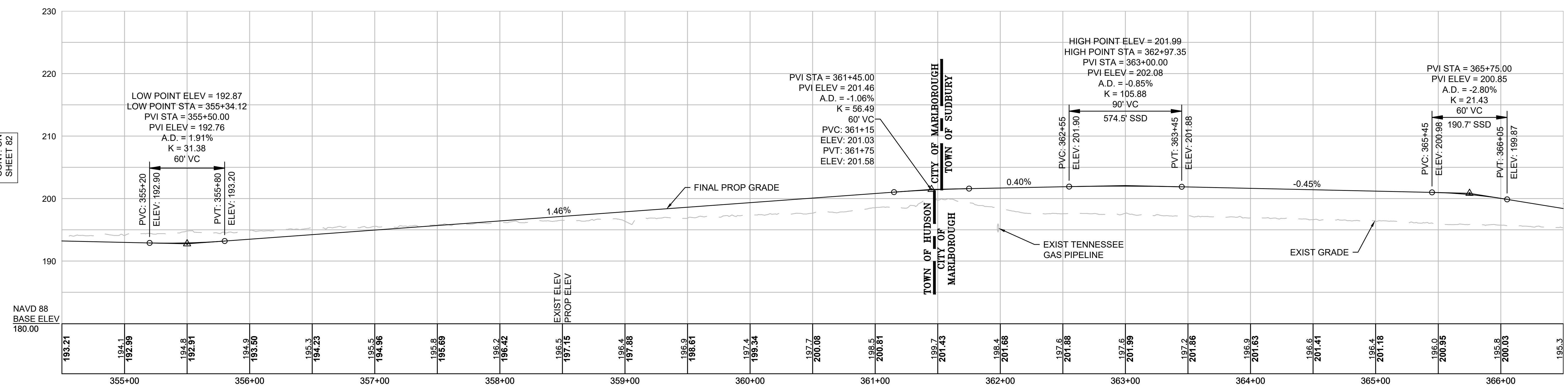
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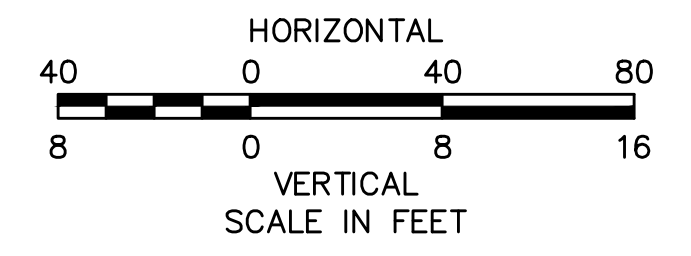
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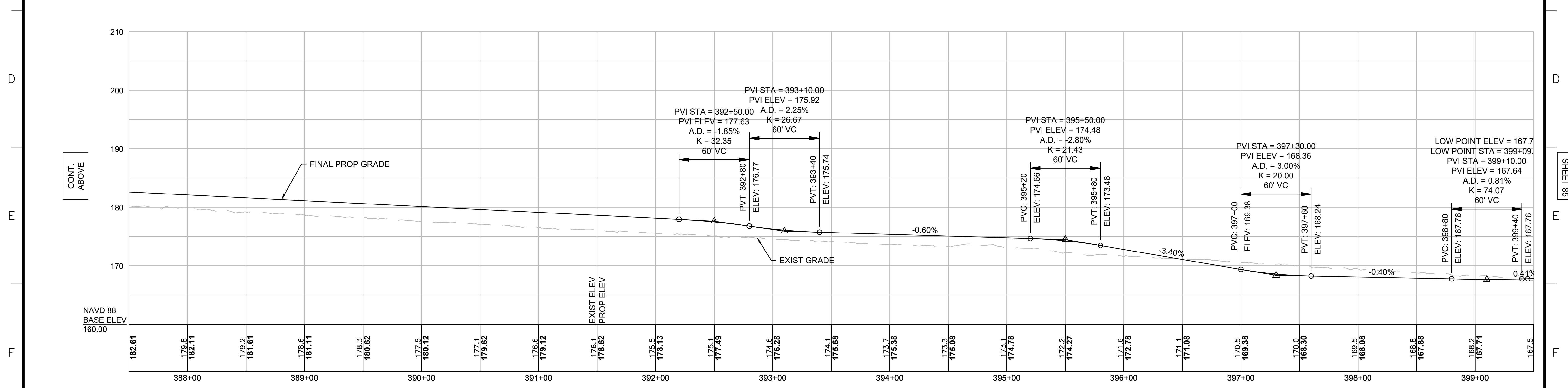
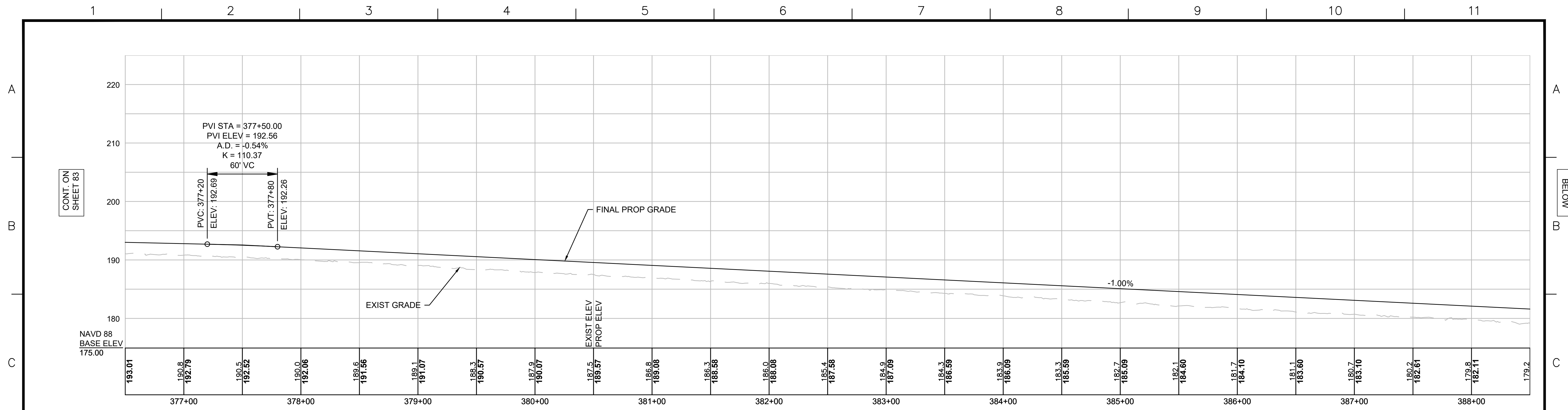


NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.

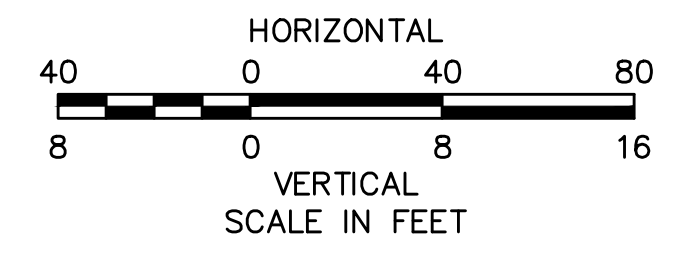


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EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
PROFILE					
PLAN 83 OF 347					
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE DRAWN JAN 2021 MS		CHK'D. APPR. SK MES	
DRAWING NO.				REV.	

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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



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N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

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

PLAN 84 OF 347

SCALE: unless noted H: 1"=40' V: 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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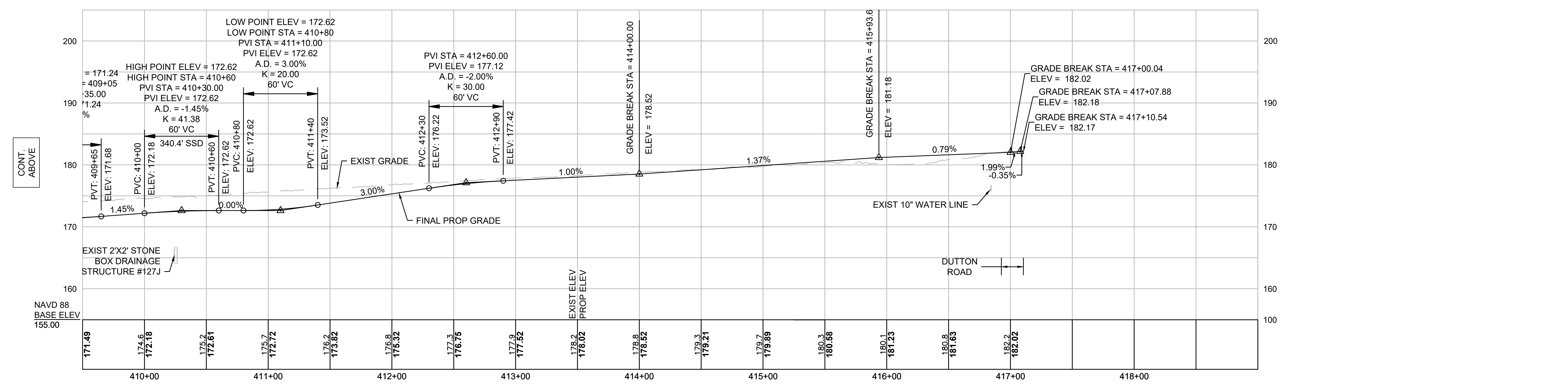
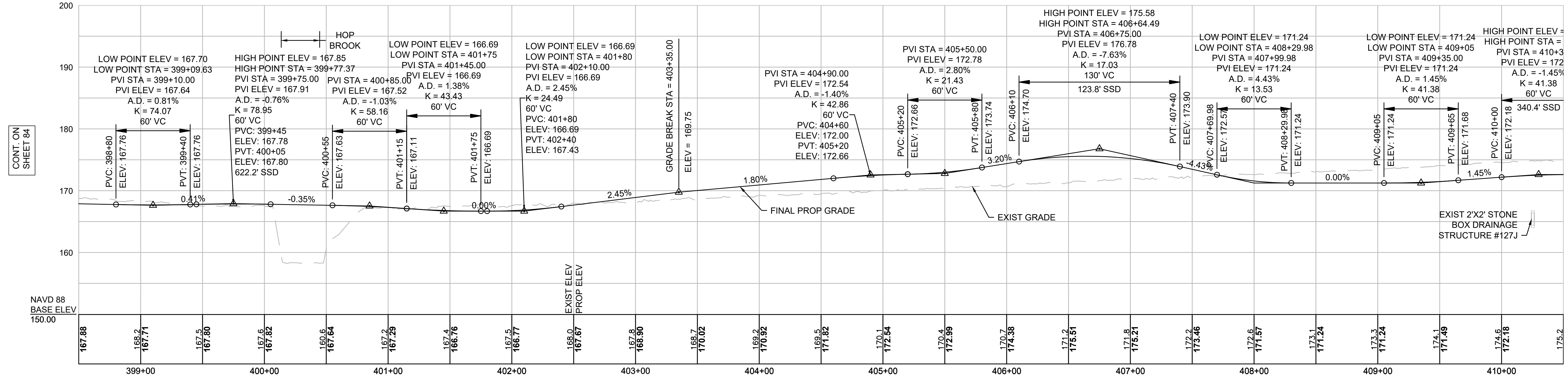
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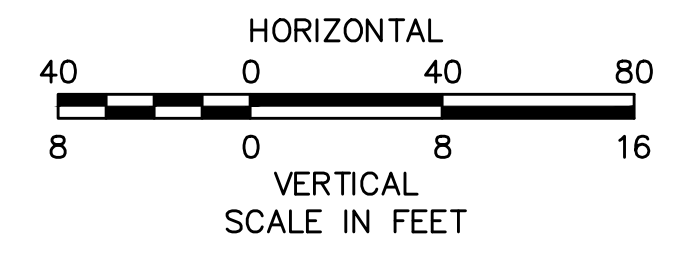
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



REVISION			
N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

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

PLAN 85 OF 347

SCALE: unless noted H: 1"=40' V: 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO. 	REV.
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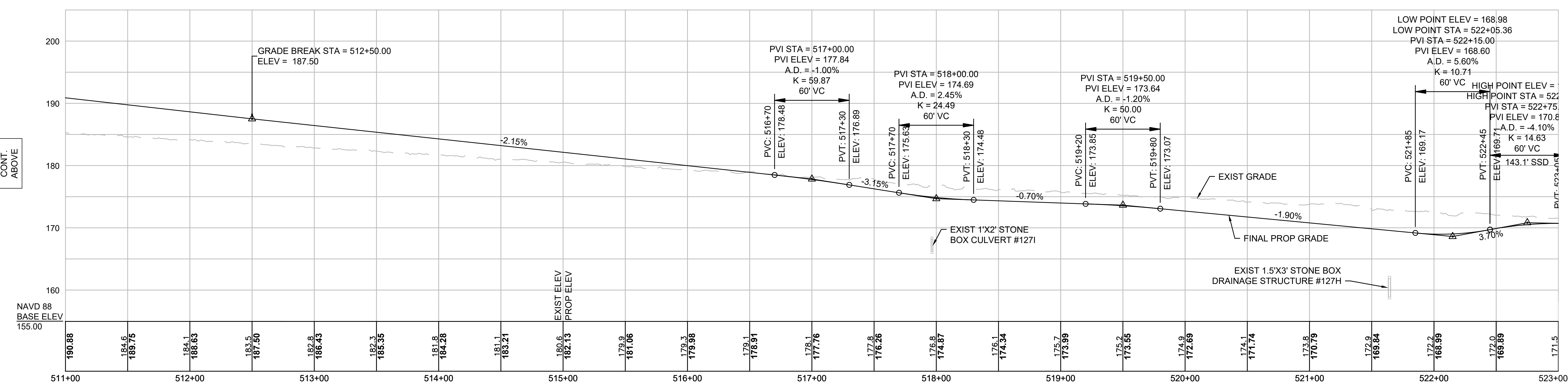
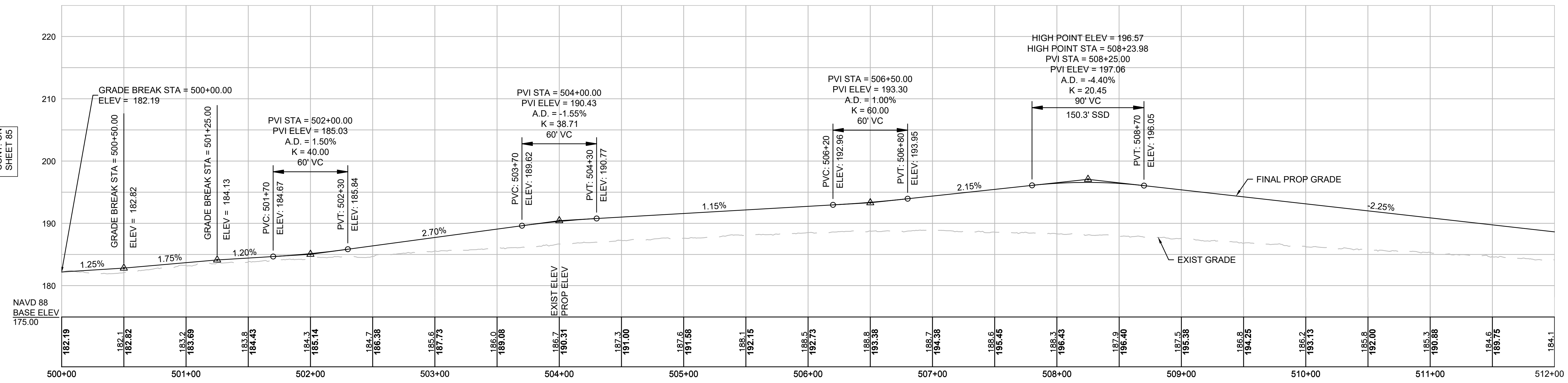
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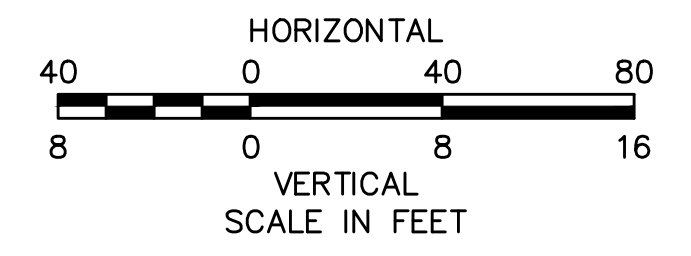
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



REVISION			
N.O.	DESCRIPTION	BY	DATE

EVERSOURCE			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
PROFILE			
PLAN 86 OF 347			
SCALE: unless noted H: 1"=40' V: 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK
APPR. MS		DRAWING NO. REV.	

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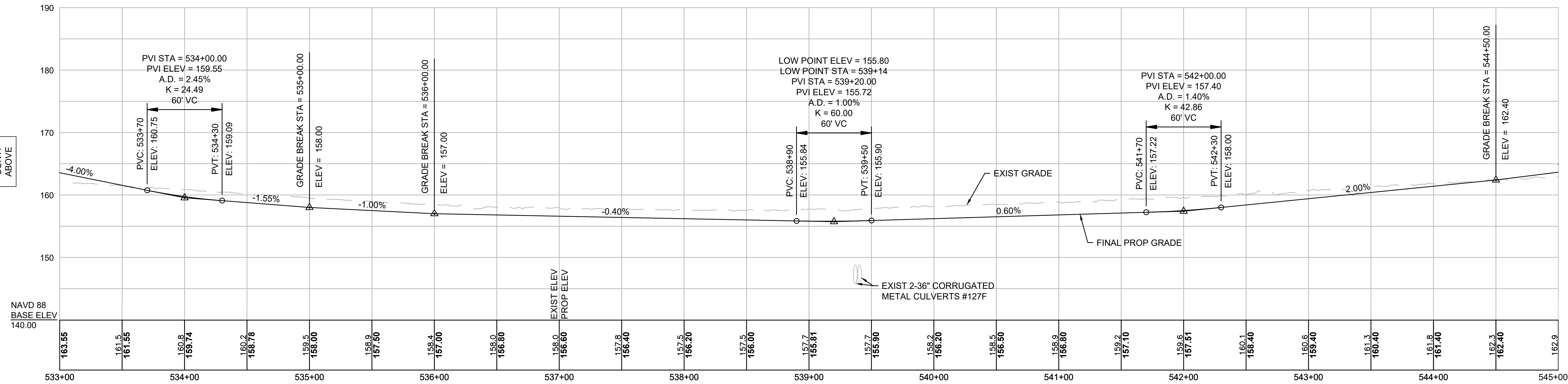
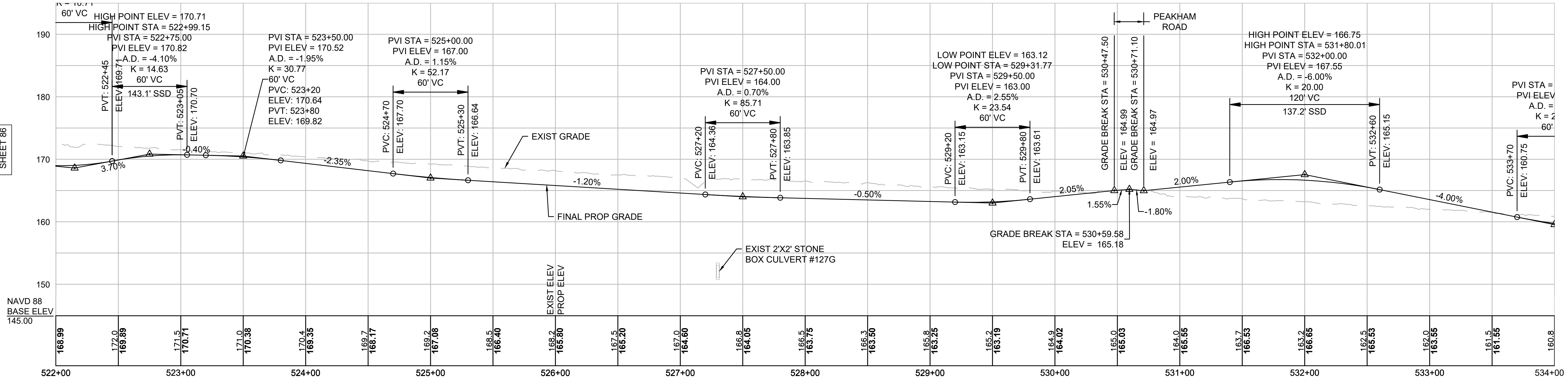
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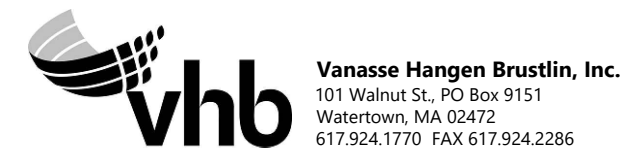
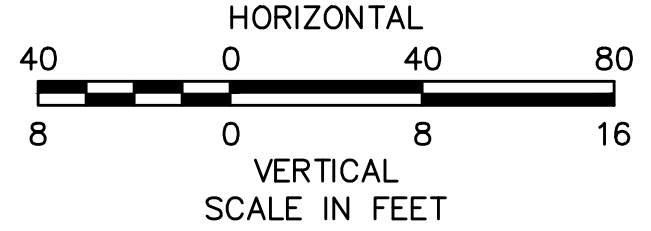
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



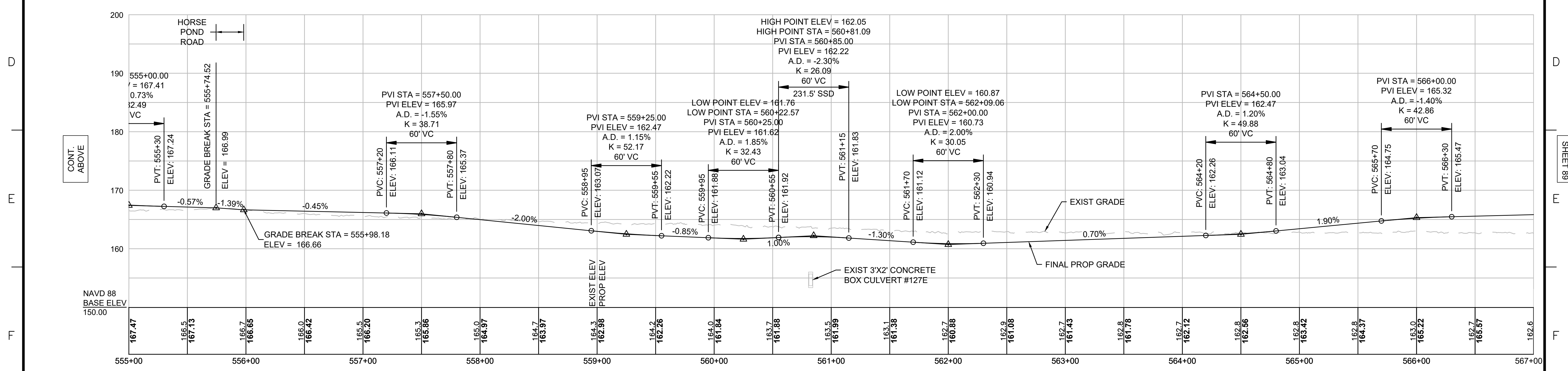
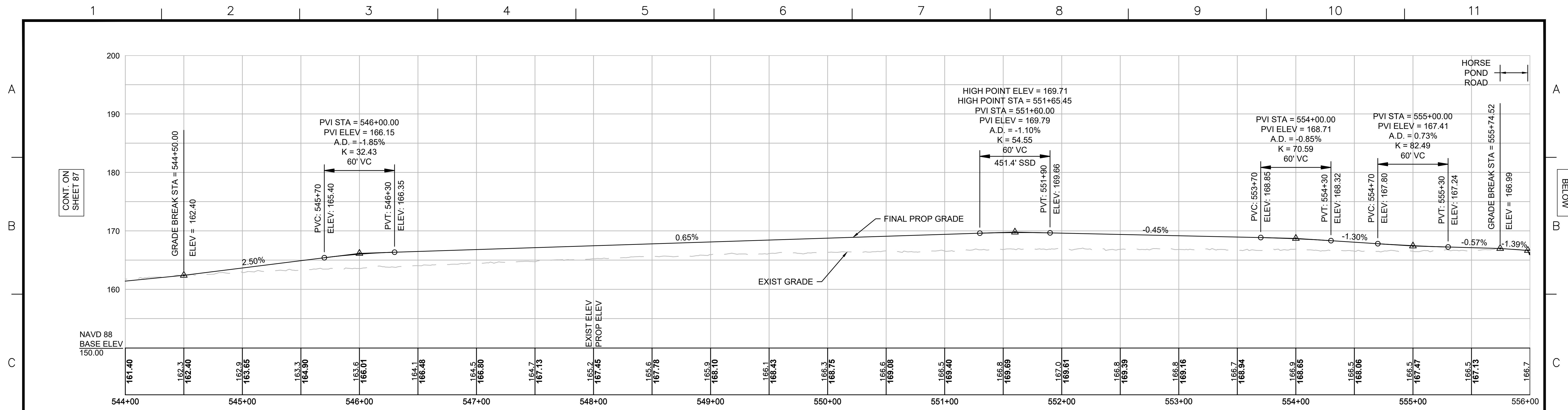
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EVERSOURCE

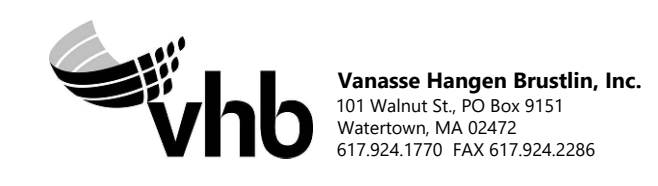
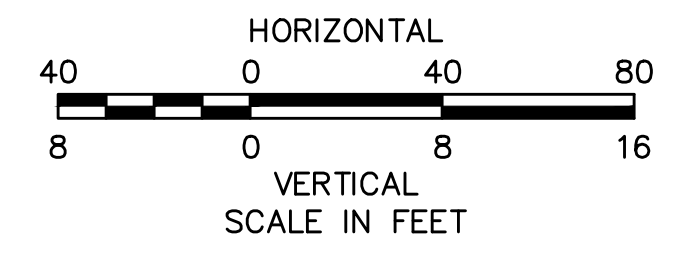
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
PROFILE

PLAN 87 OF 347

SCALE: unless noted H: 1"=40' V: 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL,
WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
FINAL GRADING TO BE PERFORMED UNDER
SEPARATE CONTRACT. SEE DETAIL FOR
INTERIM TYPICAL SECTION ON SHEET 157 FOR
ADDITIONAL INFORMATION.



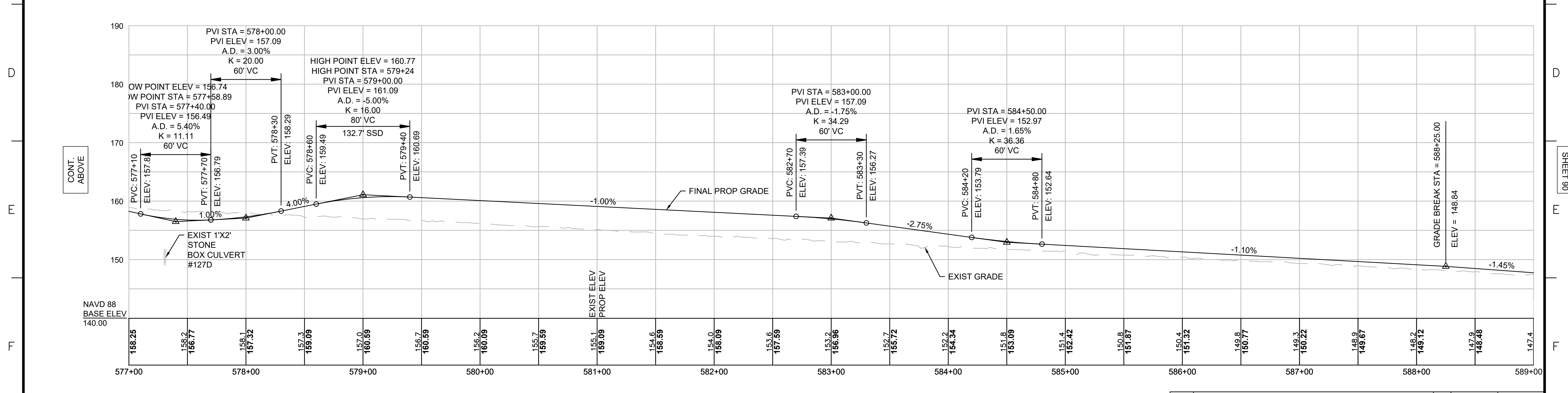
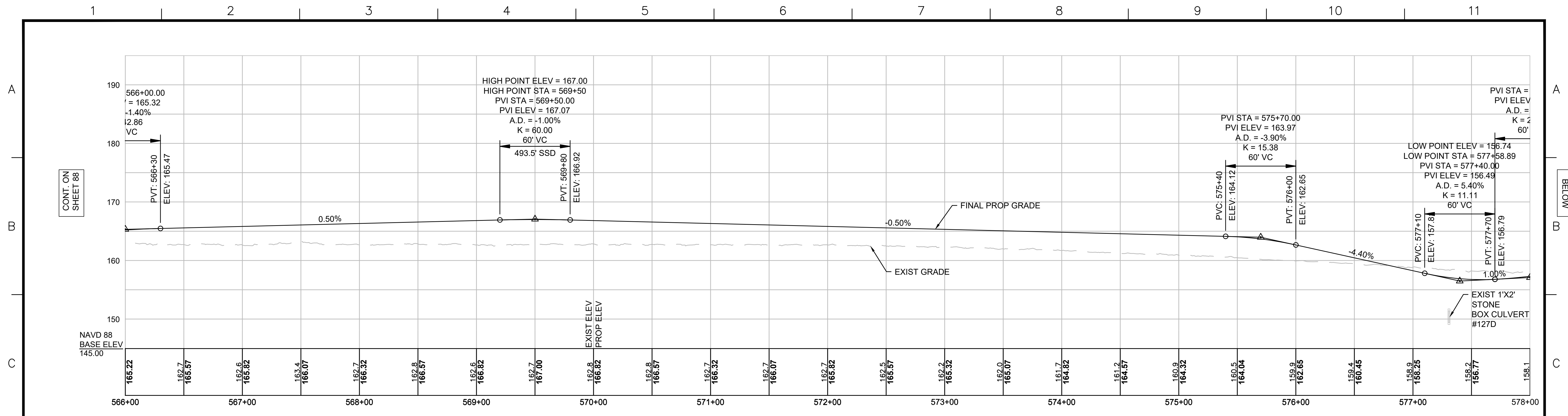
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N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

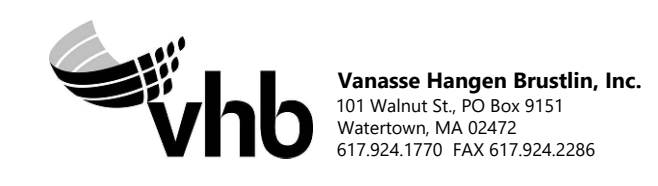
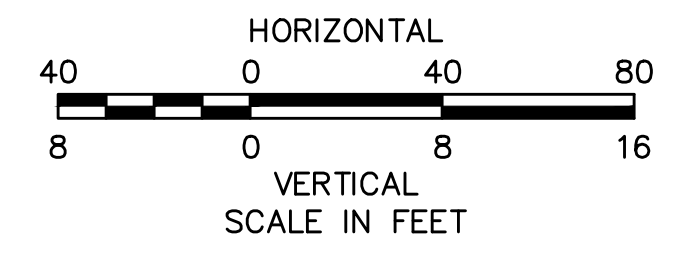
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
PROFILE

PLAN 88 OF 347

SCALE: unless noted H: 1"=40' V: 1"=8'	DATE DRAWN JAN 2021	CHK'D. MS	APPR. SK	DRAWING NO. MES	REV.
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 89 OF 347

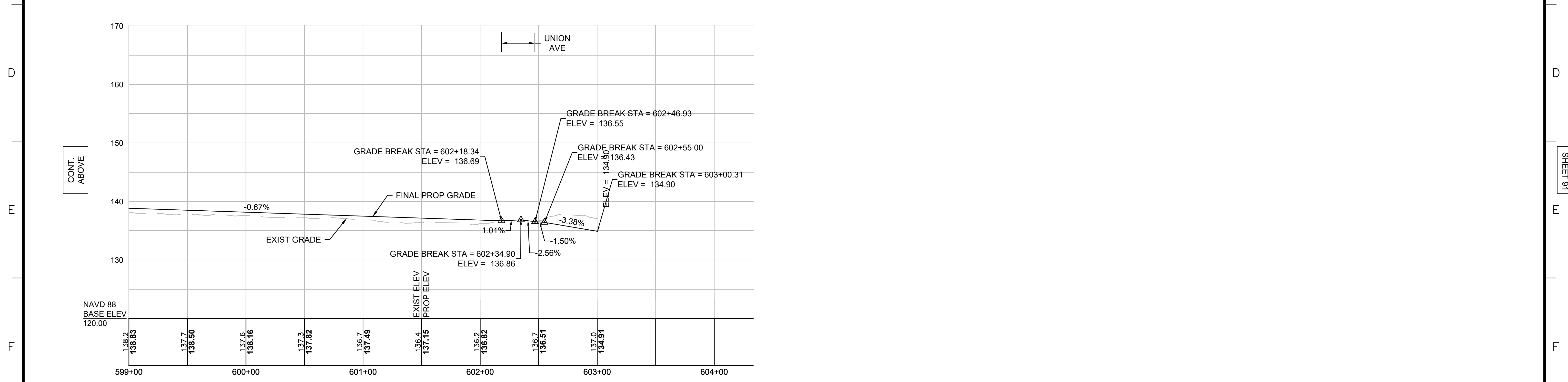
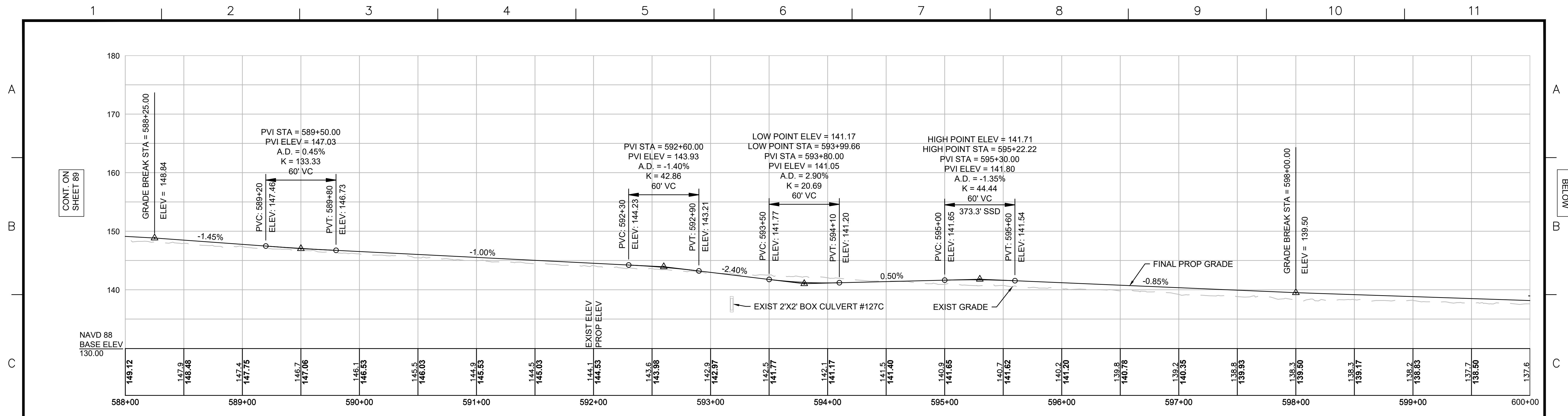
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SHEET 88

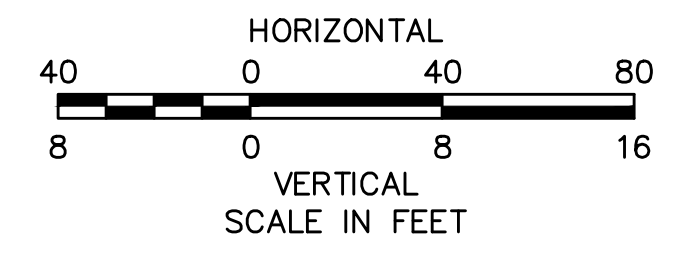
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
PROFILE				
PLAN 90 OF 347				
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE DRAWN JAN 2021 MS		CH'K D. APPR. SK MES
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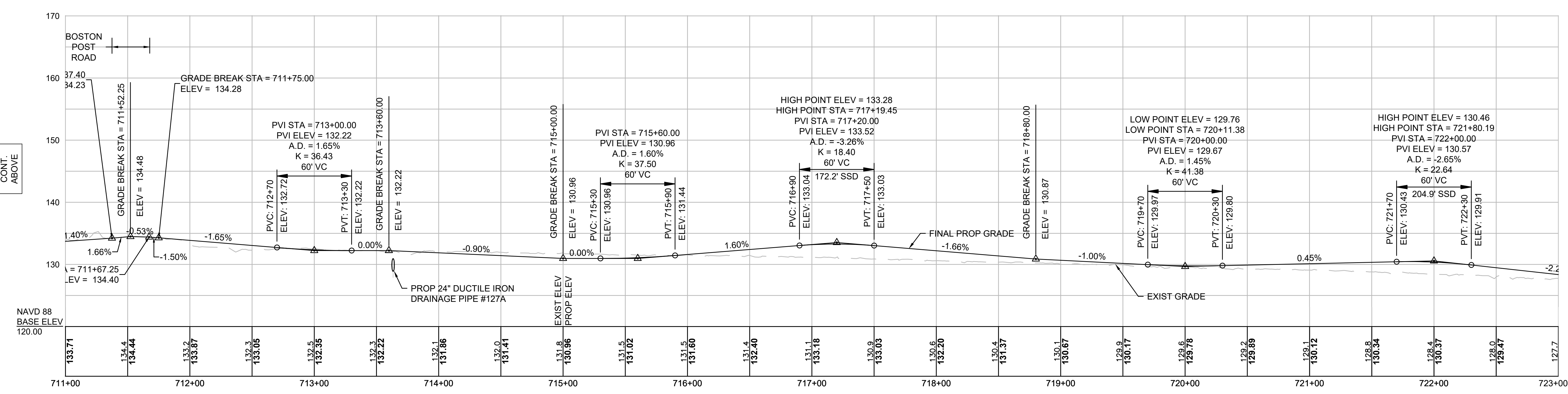
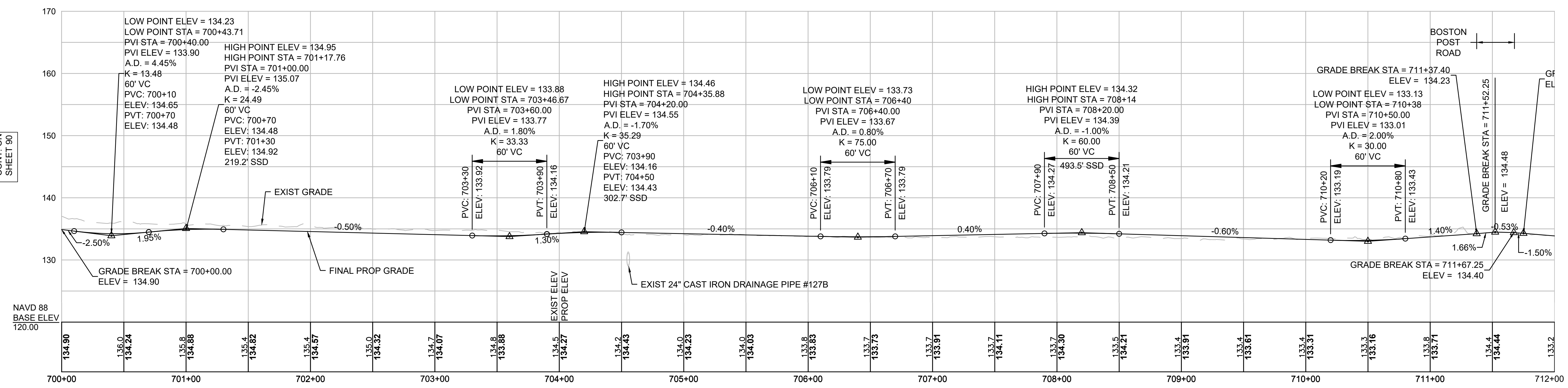
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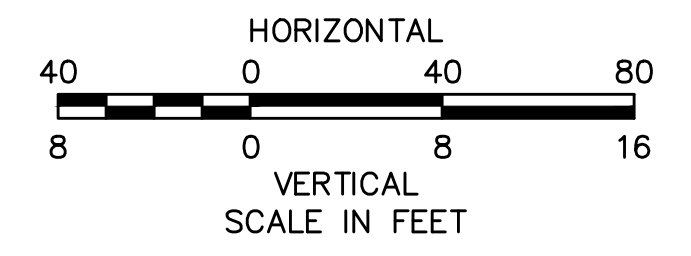
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
PROFILE				
PLAN 91 OF 347				
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE DRAWN JAN 2021 MS		CH'K'D. APPR. SK MES
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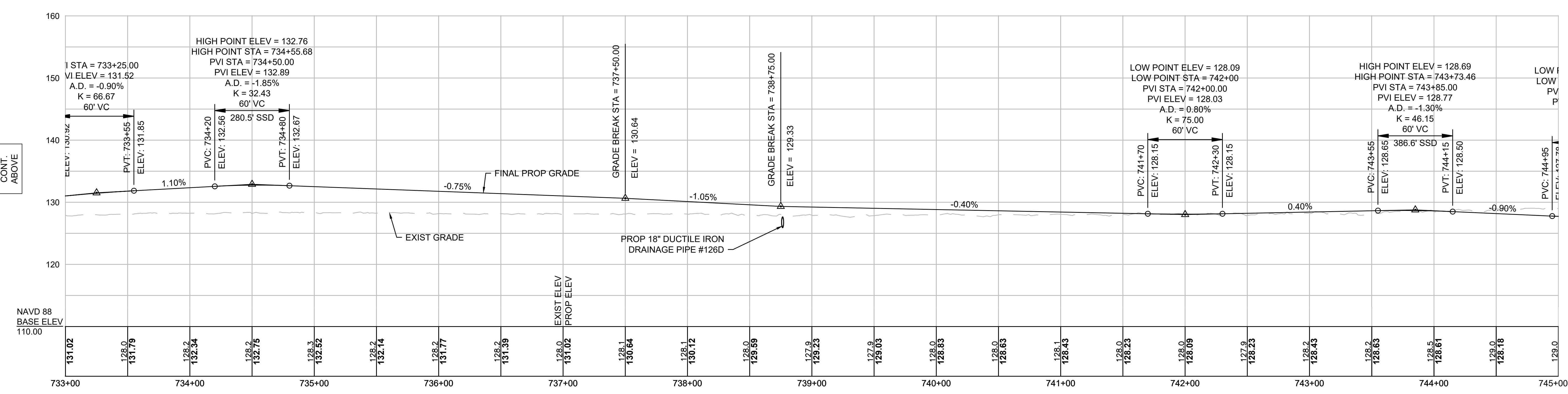
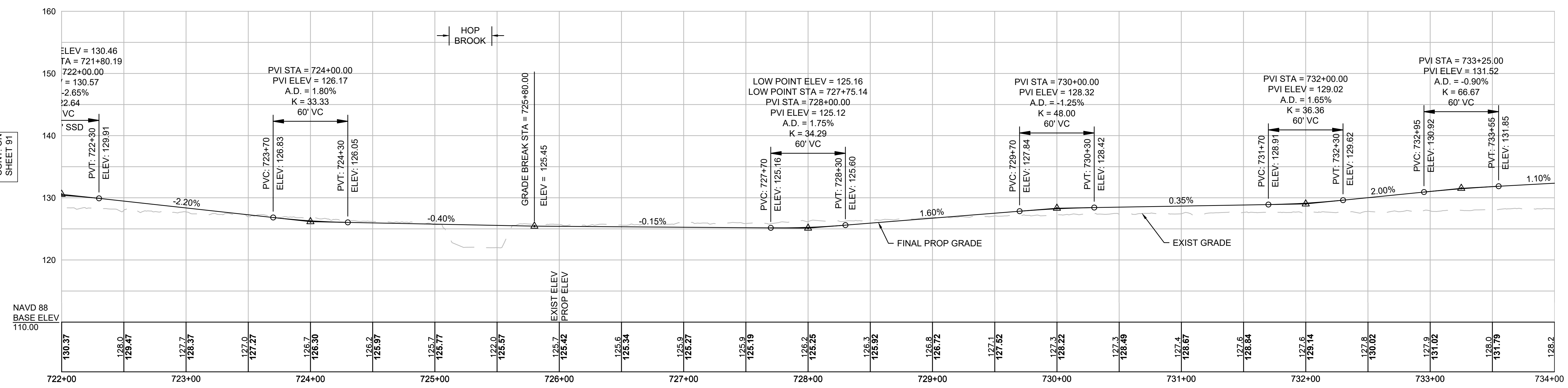
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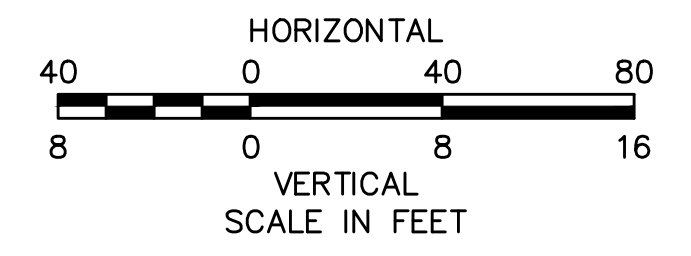
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NOTE:
 CONTRACTOR TO BUILD TO INTERIM PGL,
 WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
 FINAL GRADING TO BE PERFORMED UNDER
 SEPARATE CONTRACT. SEE DETAIL FOR
 INTERIM TYPICAL SECTION ON SHEET 157 FOR
 ADDITIONAL INFORMATION.

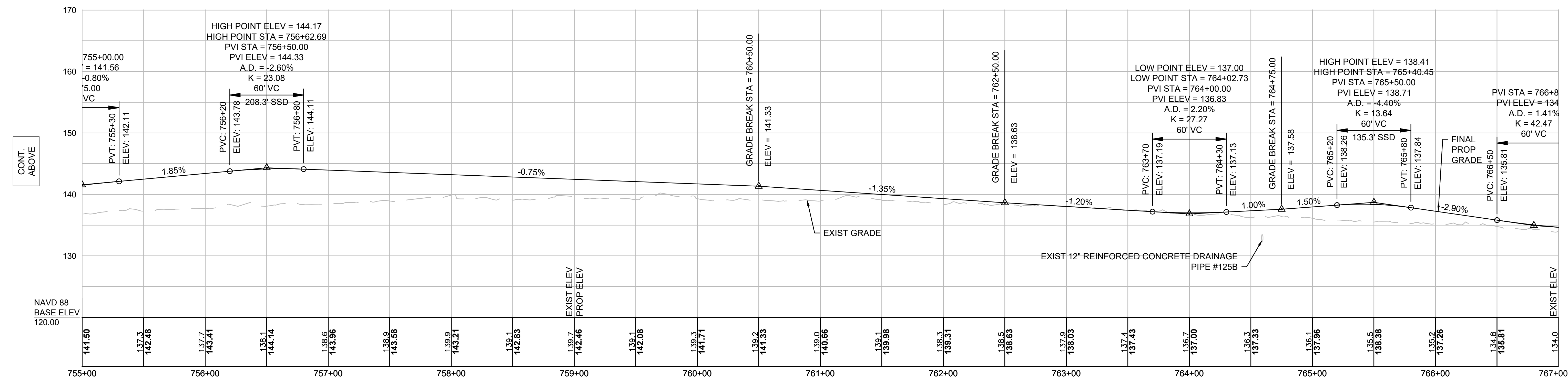
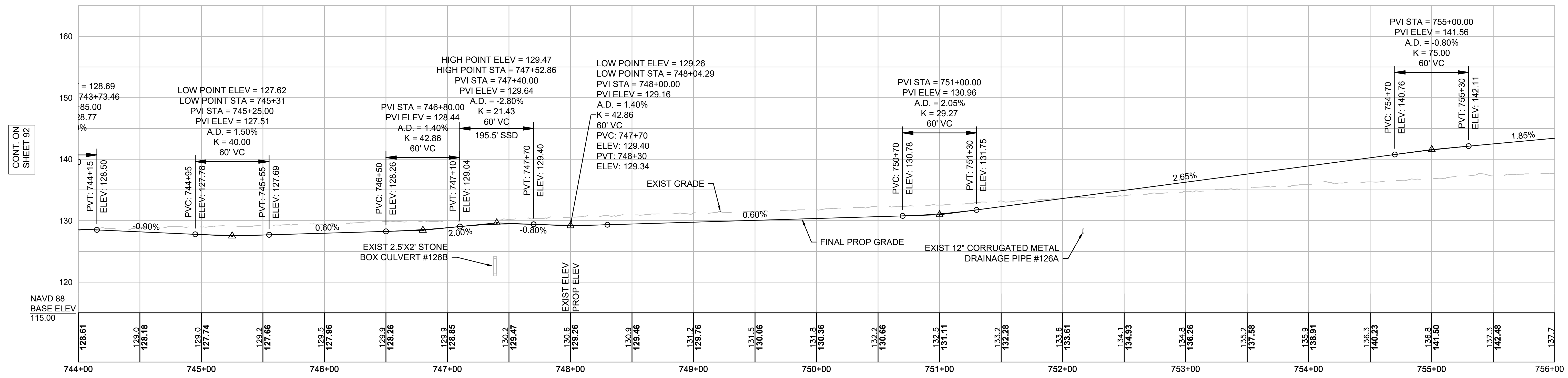


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REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
PROFILE				
PLAN 92 OF 347				
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE	DRAWN	CHK'D
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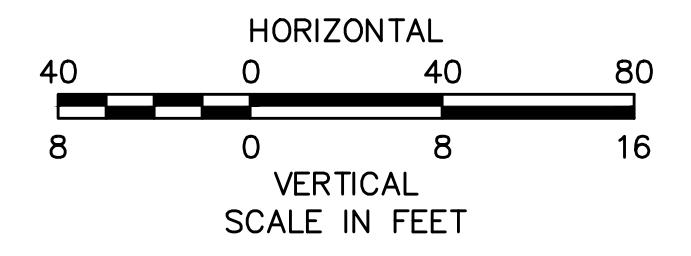
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL,
WHICH IS 4" BELOW FINAL PGL SHOWN HERE.
FINAL GRADING TO BE PERFORMED UNDER
SEPARATE CONTRACT. SEE DETAIL FOR
INTERIM TYPICAL SECTION ON SHEET 157 FOR
ADDITIONAL INFORMATION.



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
PROFILE				
PLAN 93 OF 347				
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE	DRAWN	CHK'D
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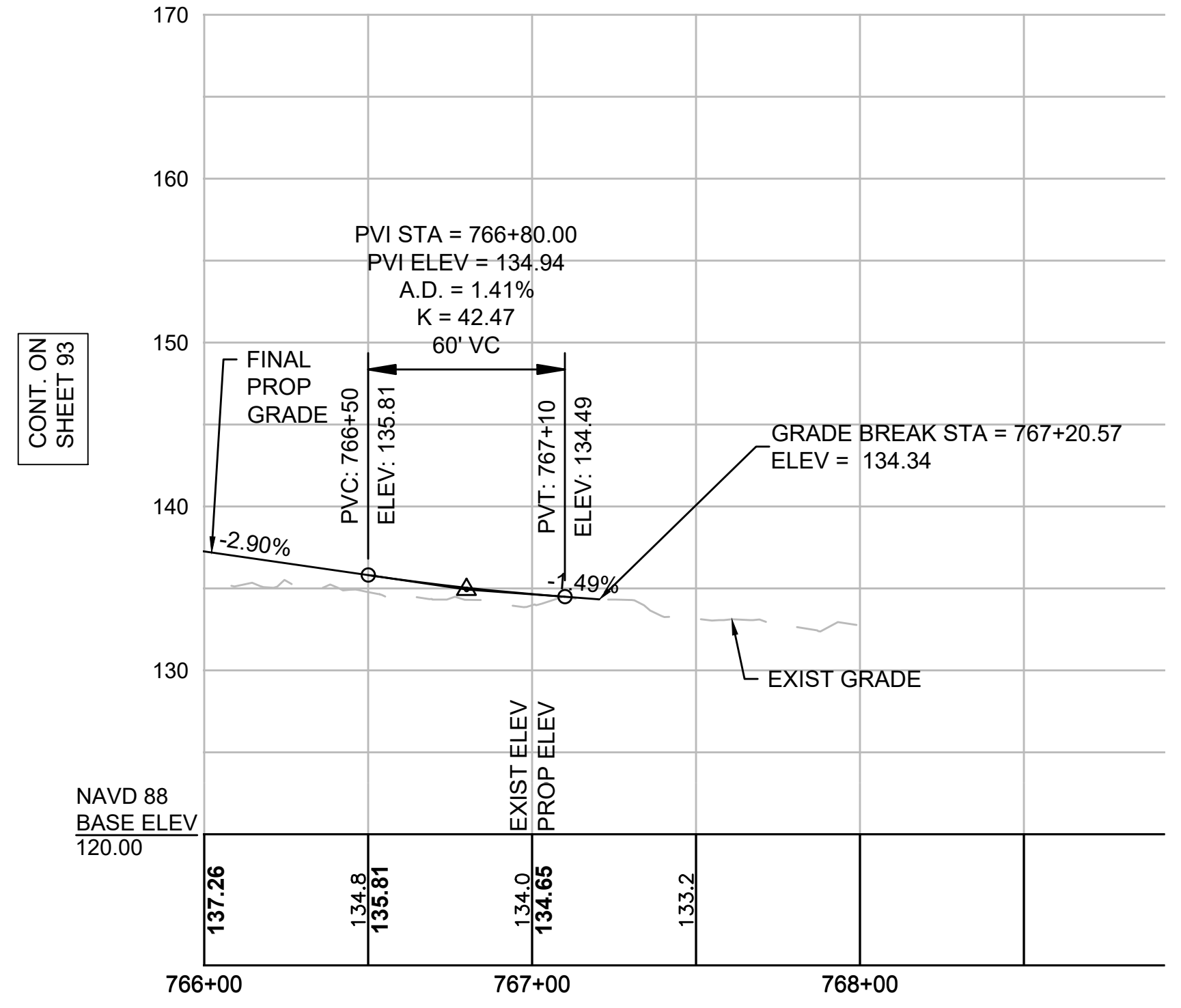
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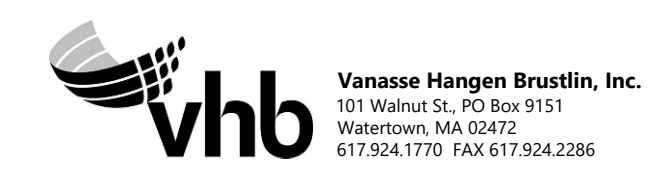
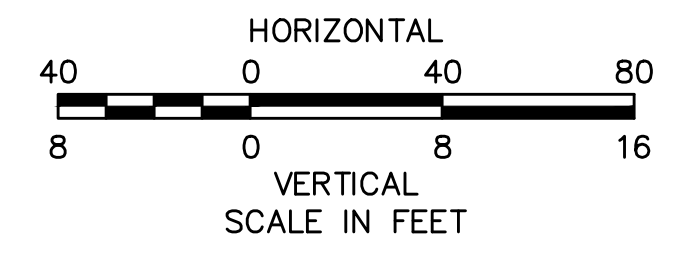
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NOTE:
CONTRACTOR TO BUILD TO INTERIM PGL, WHICH IS 4" BELOW FINAL PGL SHOWN HERE. FINAL GRADING TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE DETAIL FOR INTERIM TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION.



N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
PROFILE				
PLAN 94 OF 347				
SCALE: unless noted H: 1"=40' V: 1"=8'		DATE	DRAWN	CHK'D
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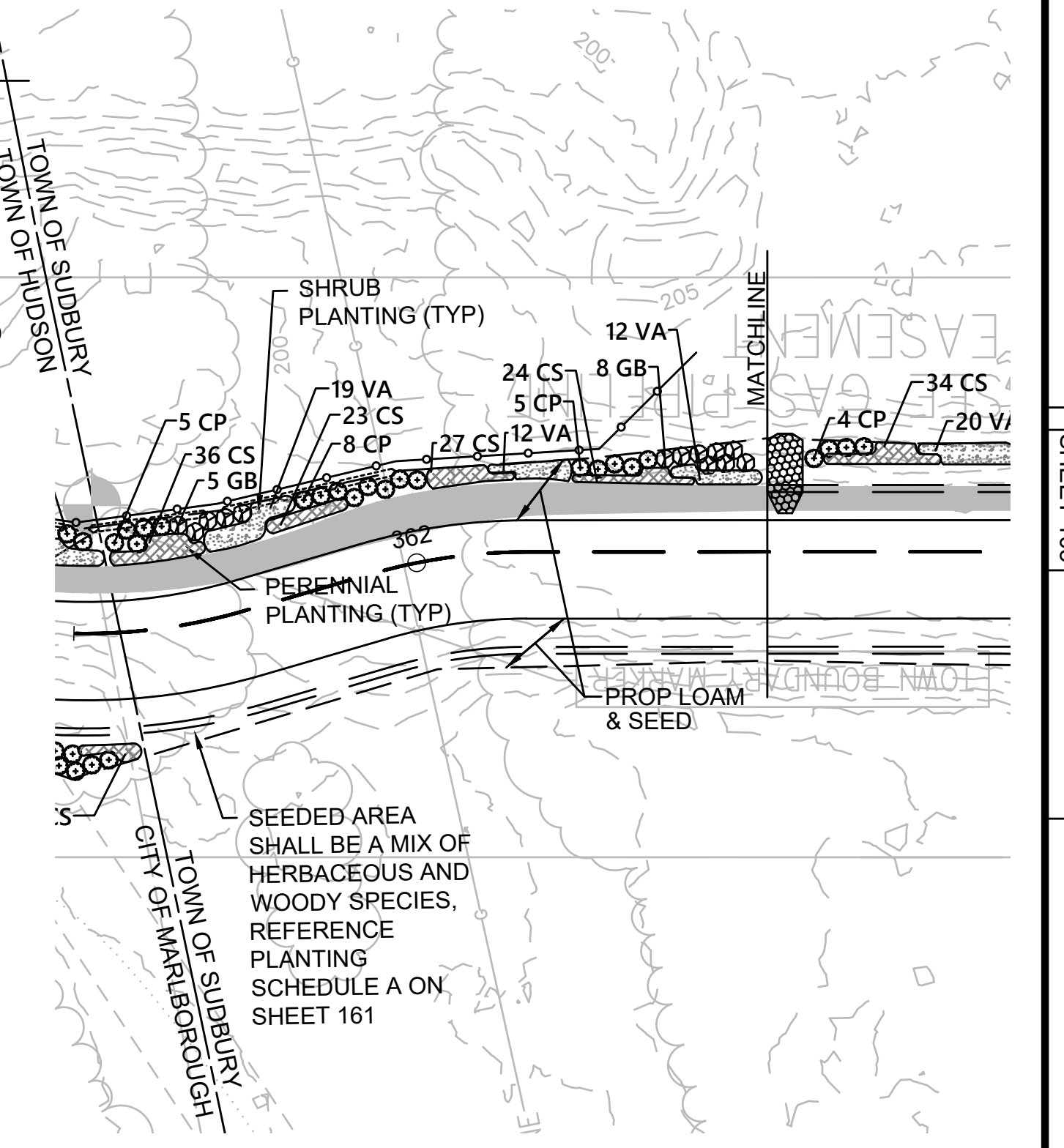
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PLANT SCHEDULE 361+60 - 362+50 : SUDBURY

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 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				
LANDSCAPE PLANS				
PLAN 102 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
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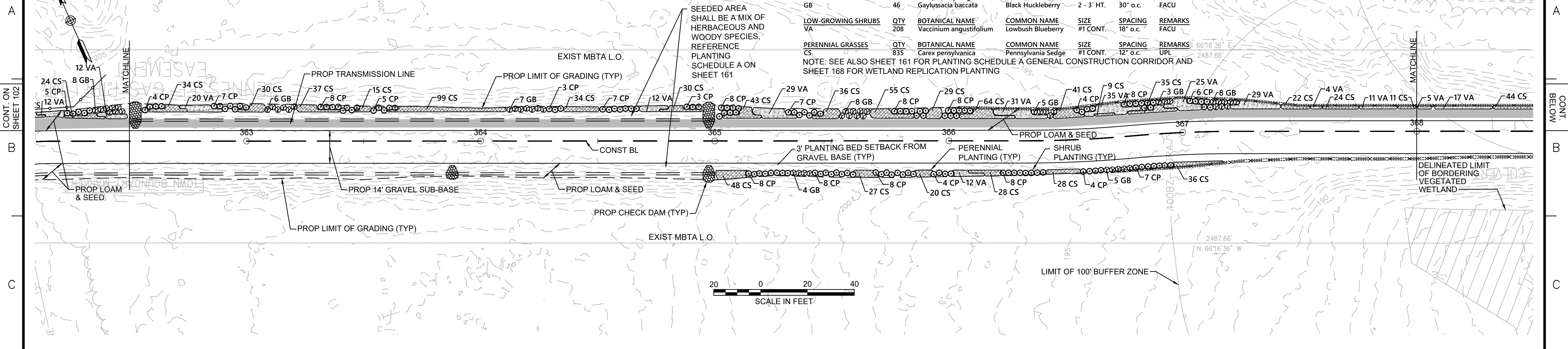
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PLANT SCHEDULE 362+50 - 368+00

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



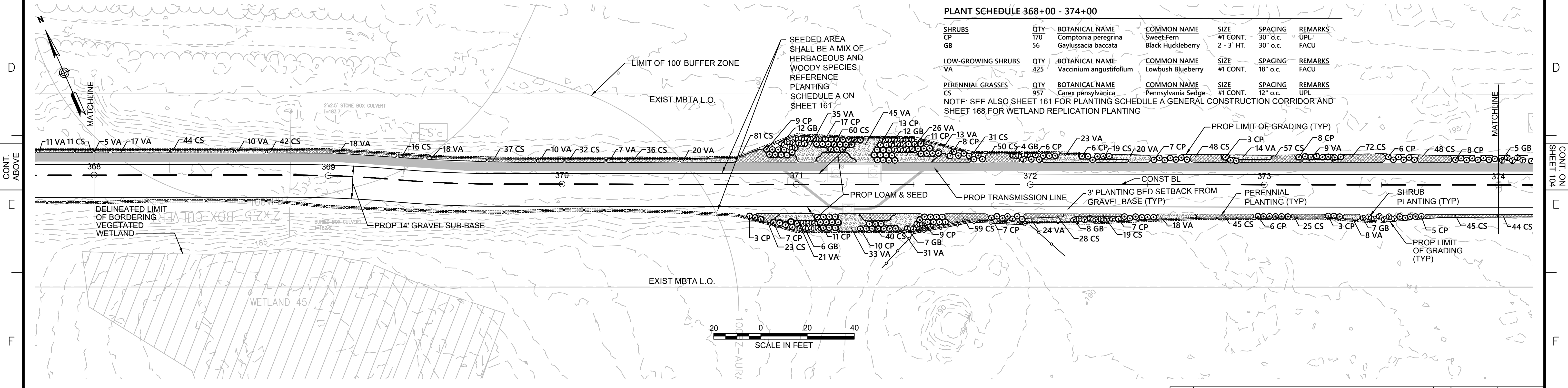
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PLANT SCHEDULE 368+00 - 374+00

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

PLAN 103 OF 348

SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO.	REV.
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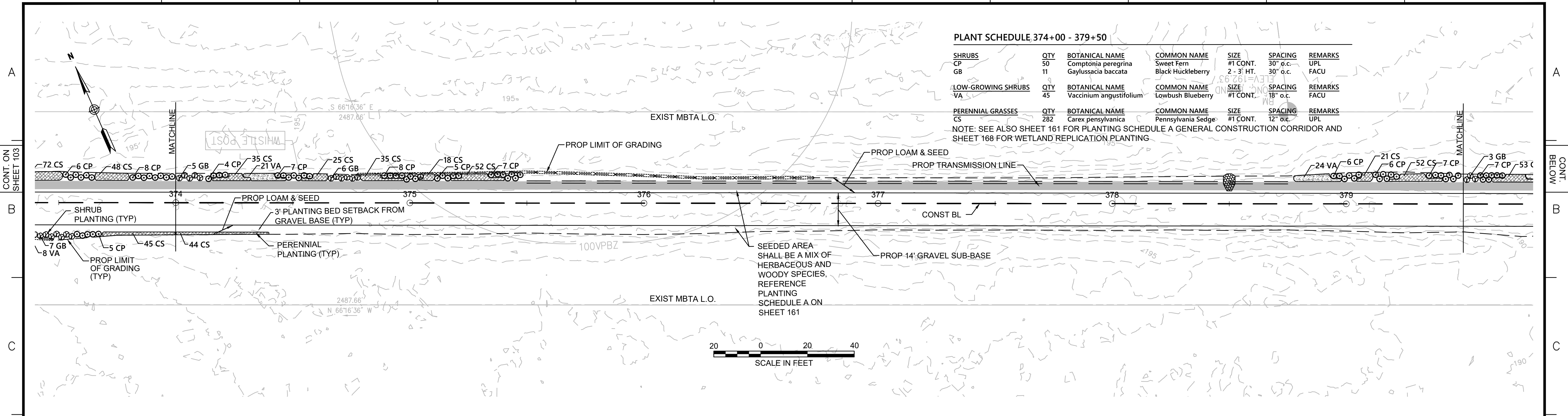
CONT. ON SHEET 103

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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.

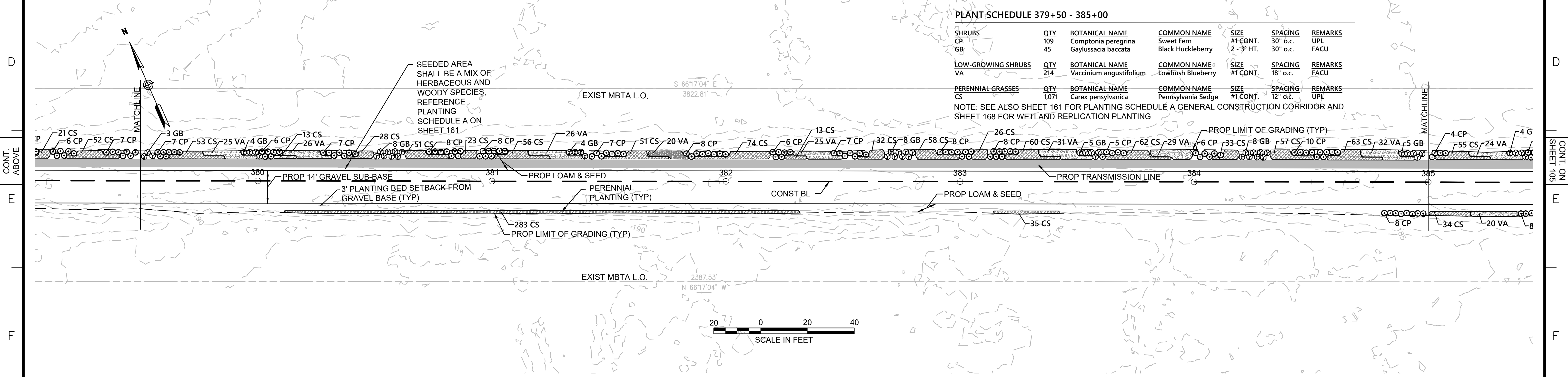


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PLANT SCHEDULE 379+50 - 385+00

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.



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



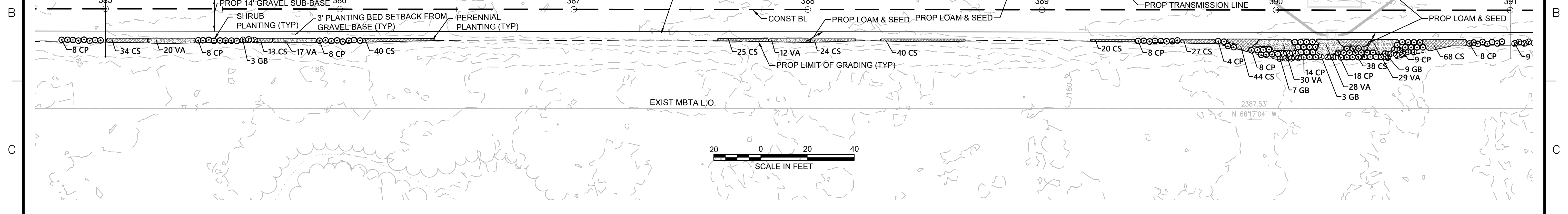
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 104 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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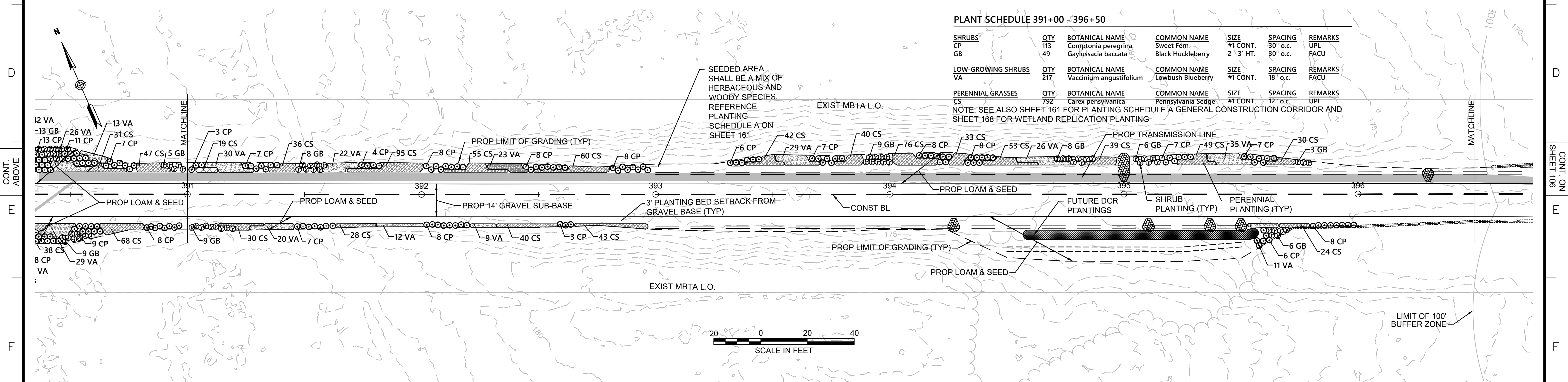
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PLANT SCHEDULE 385+00 - 391+00

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



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).



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLANT 05 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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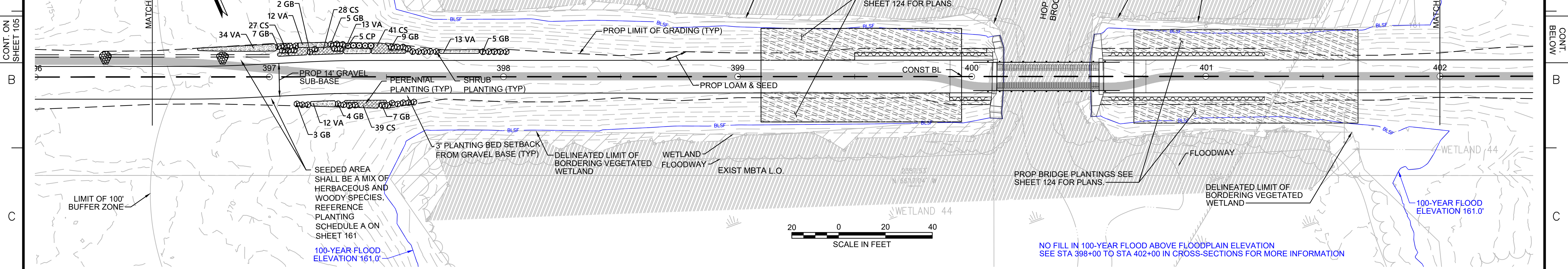
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PLANT SCHEDULE 396+50 - 402+00

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



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

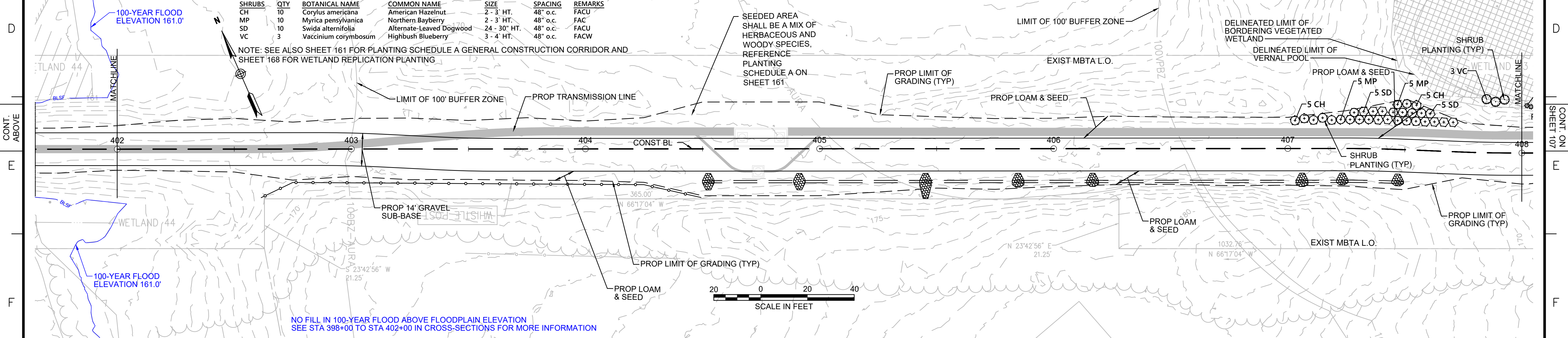
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PLANT SCHEDULE 402+00 - 408+00

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.	FAC
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



NO FILL IN 100-YEAR FLOOD ABOVE FLOODPLAIN ELEVATION SEE STA 398+00 TO STA 402+00 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).



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 106 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.				REV.

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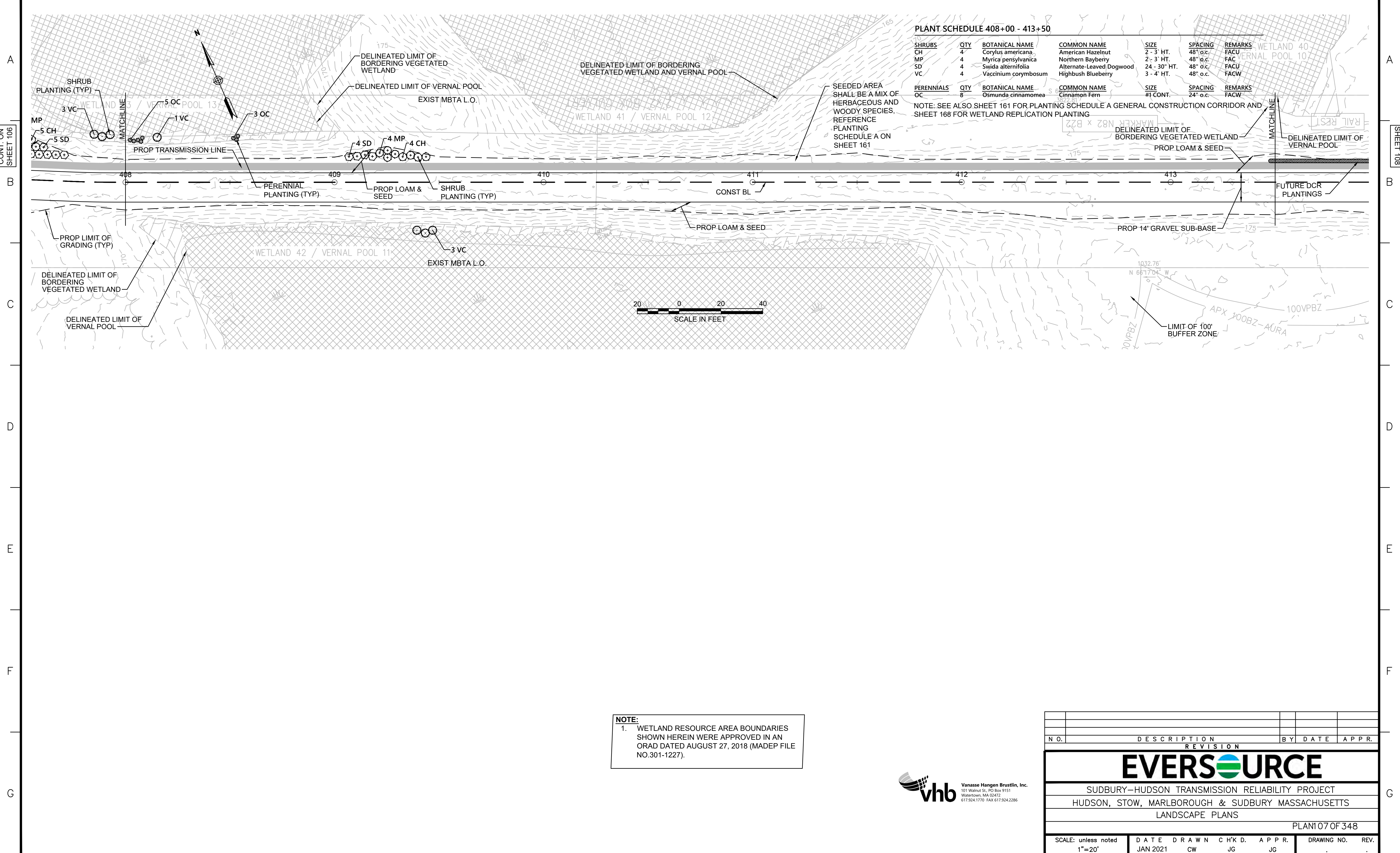
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CONT. ON SHEET 106

CONT. ON SHEET 108



PLANT SCHEDULE 408+00 - 413+50

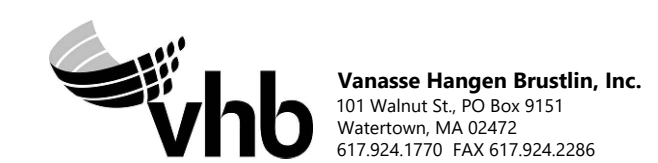
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CH	4	<i>Corylus americana</i>	American Hazelnut	2 - 3 HT.	48" o.c.	FACU
MP	4	<i>Myrica pensylvanica</i>	Northern Bayberry	2 - 3 HT.	48" o.c.	FACU
SD	4	<i>Swida alternifolia</i>	Alternate-Leaved Dogwood	24 - 30" HT.	48" o.c.	FACU
VC	4	<i>Vaccinium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

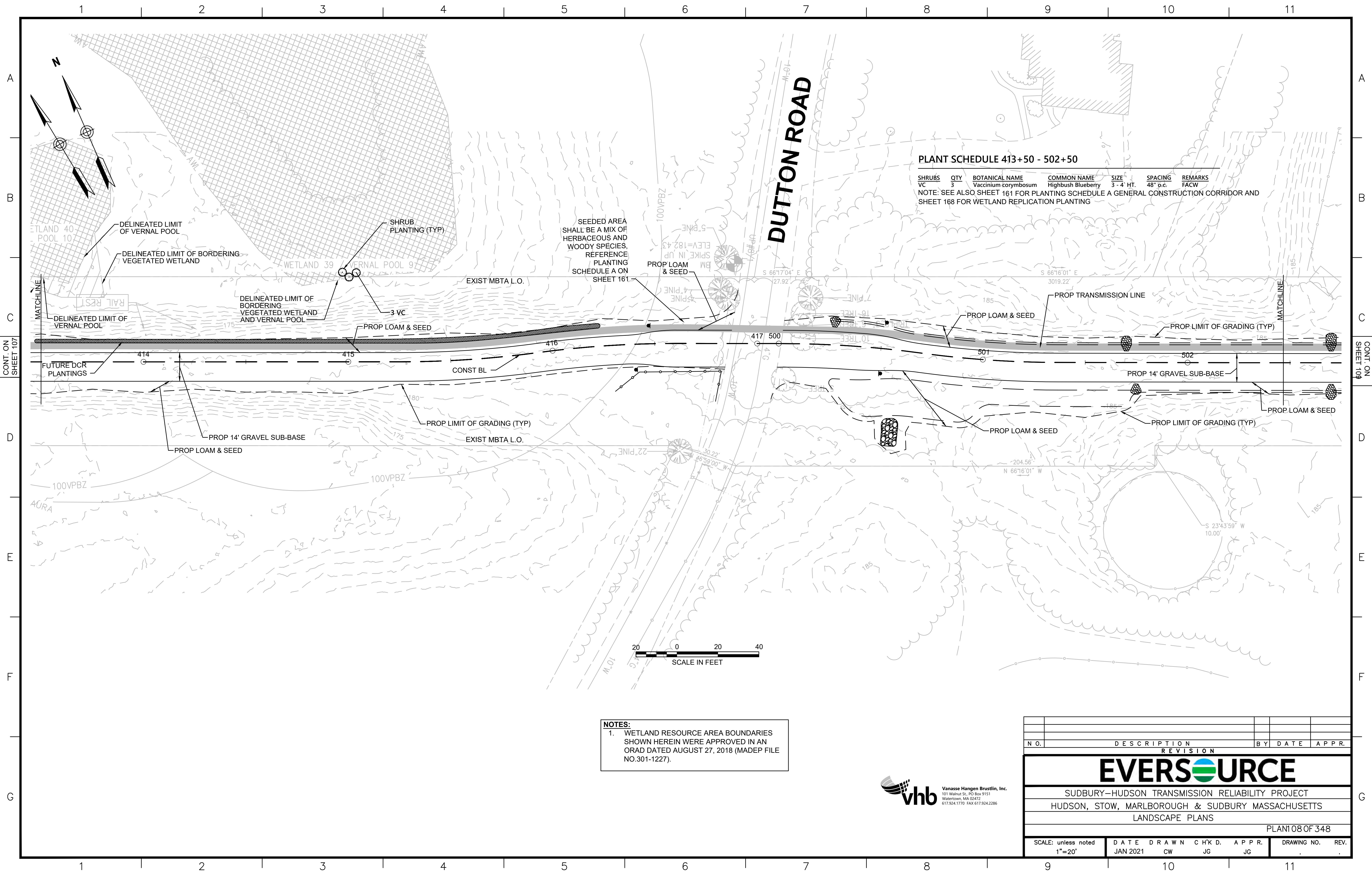
SEEDED AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161

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.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 107 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 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).

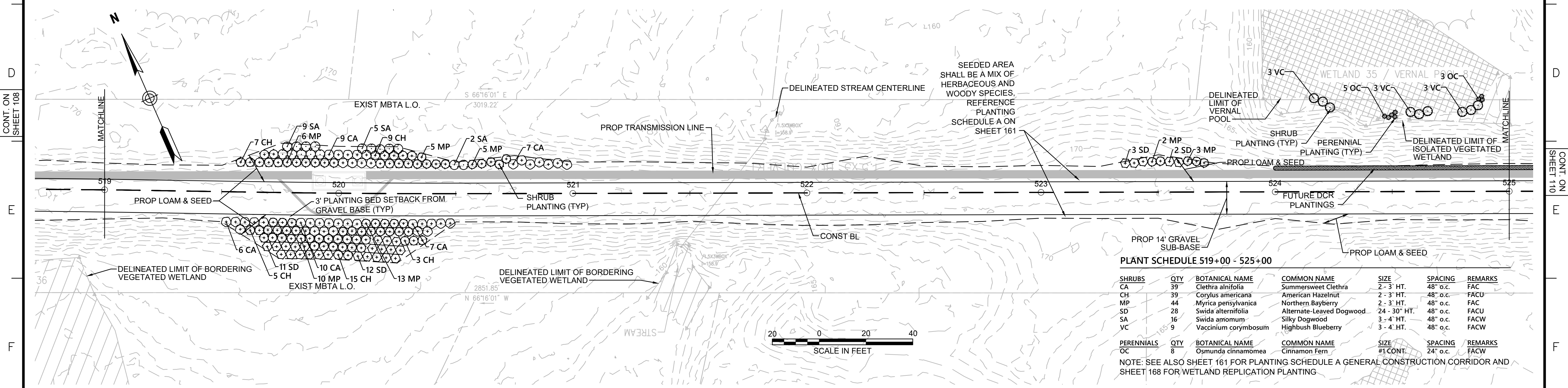


NO.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 108 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.				REV.

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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).



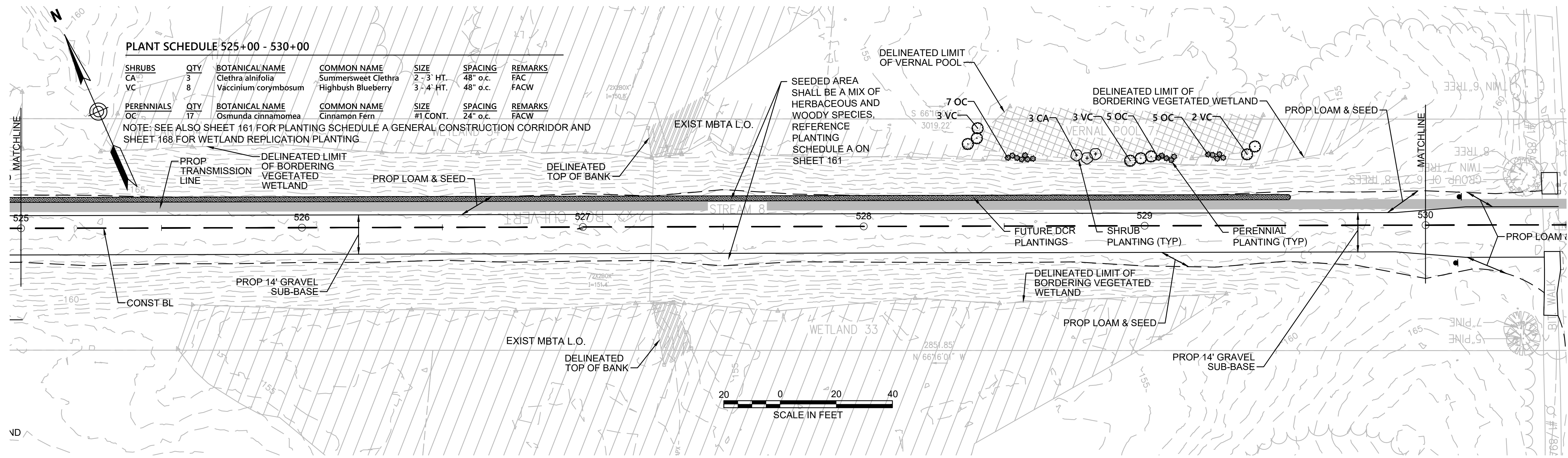
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 109 OF 348				
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.
	JAN 2021	CW	JG	JG
DRAWING NO.	REV.			

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CONT. ON SHEET 109

CONT. ON SHEET 111



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

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				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 110 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CH'K D. JG	APPR. JG
DRAWING NO.	REV.			

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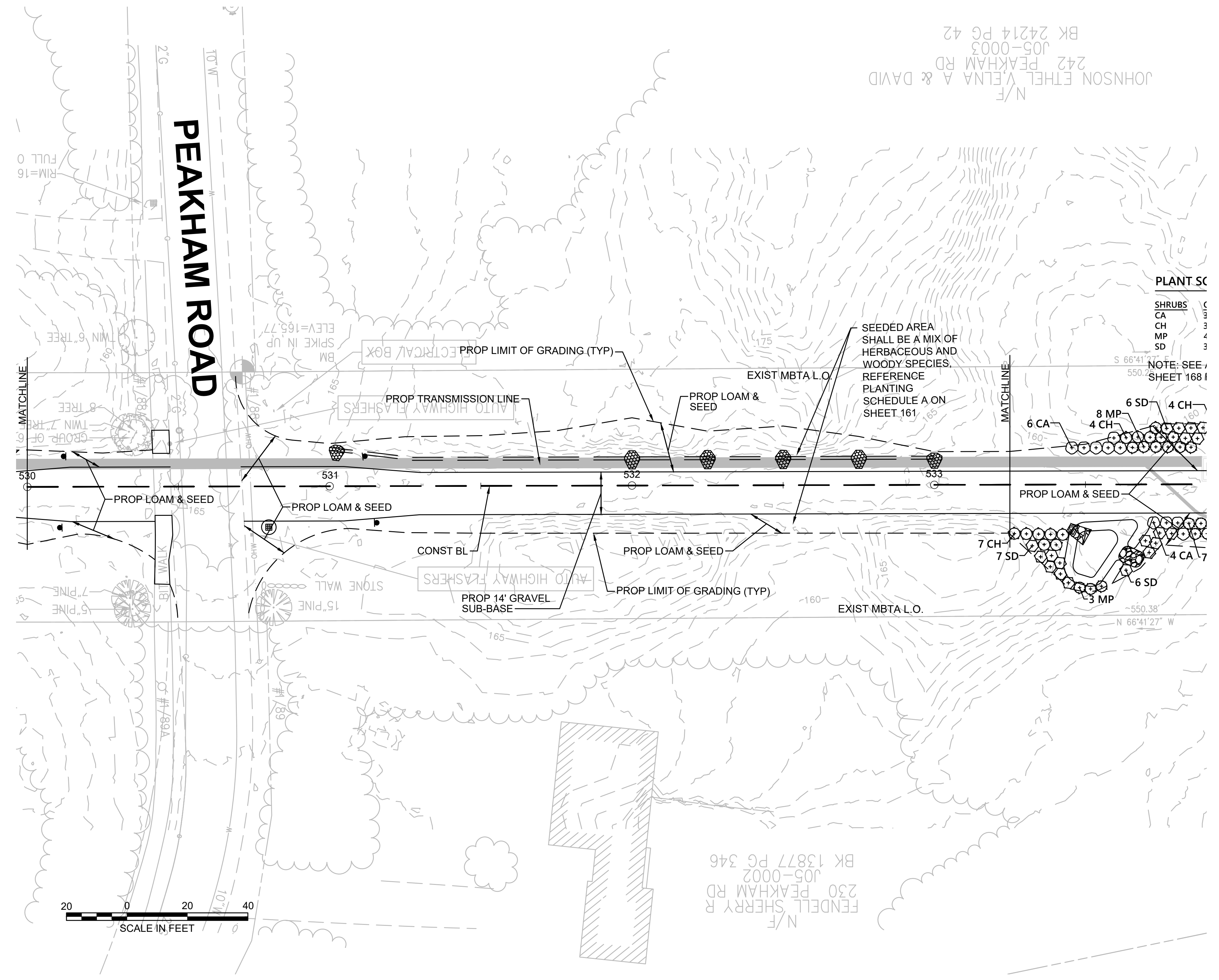
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CONT. ON SHEET 110

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).



NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 111 OF 348					
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

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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

CONT. ON SHEET 111

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100-YEAR FLOOD ELEVATION 148.6'

100-YEAR FLOOD ELEVATION 152.2'



NO IMPACT TO 100-YEAR FLOOD - ABOVE FLOODPLAIN ELEVATION. SEE STA 535+50 TO STA 542+50 IN CROSS-SECTIONS FOR MORE INFORMATION

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.
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 112 OF 348					
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO. REV.
	JAN 2021	CW	JG	JG	

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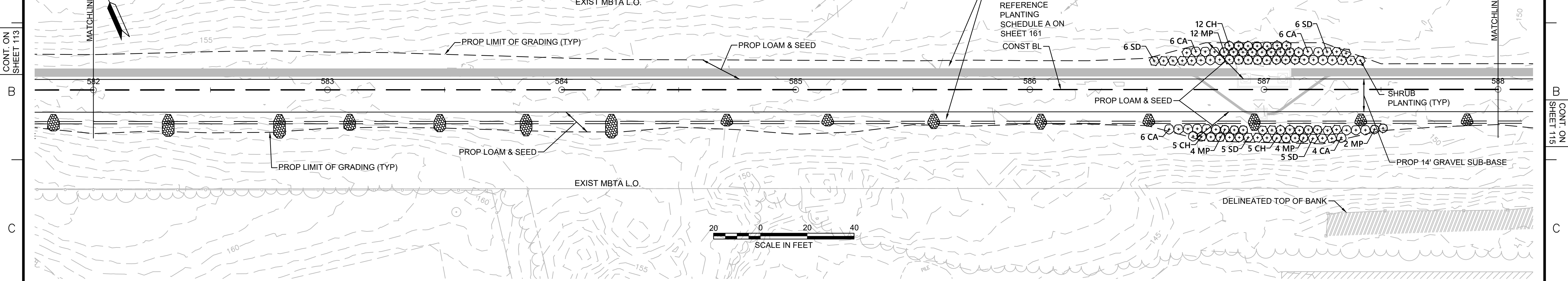
CONT. ON SHEET 113

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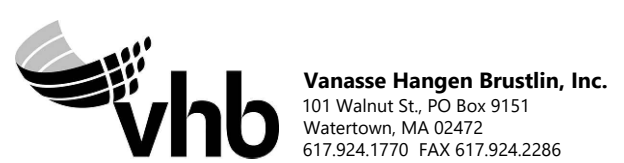
PLANT SCHEDULE 582+00 - 588+00

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.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 14 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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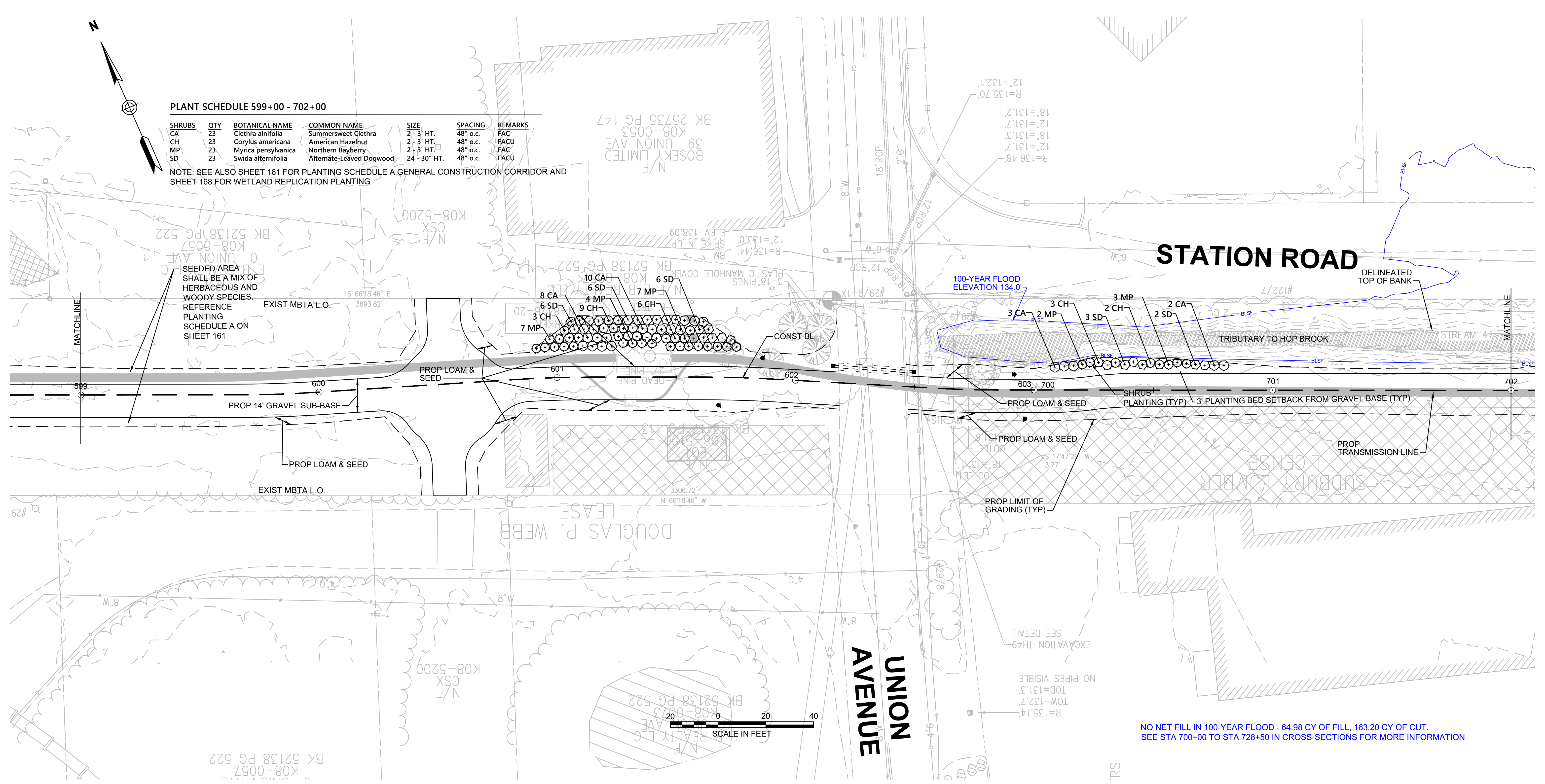
PLANT SCHEDULE 599+00 - 702+00

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

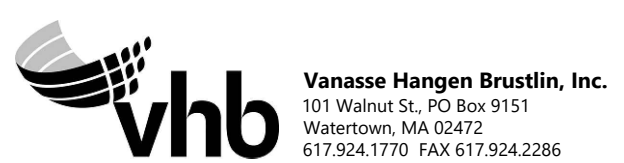
SEEDING AREA SHALL BE A MIX OF HERBACEOUS AND WOODY SPECIES. REFERENCE PLANTING SCHEDULE A ON SHEET 161

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.
REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 115 OF 348					
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG	DRAWING NO. REV.

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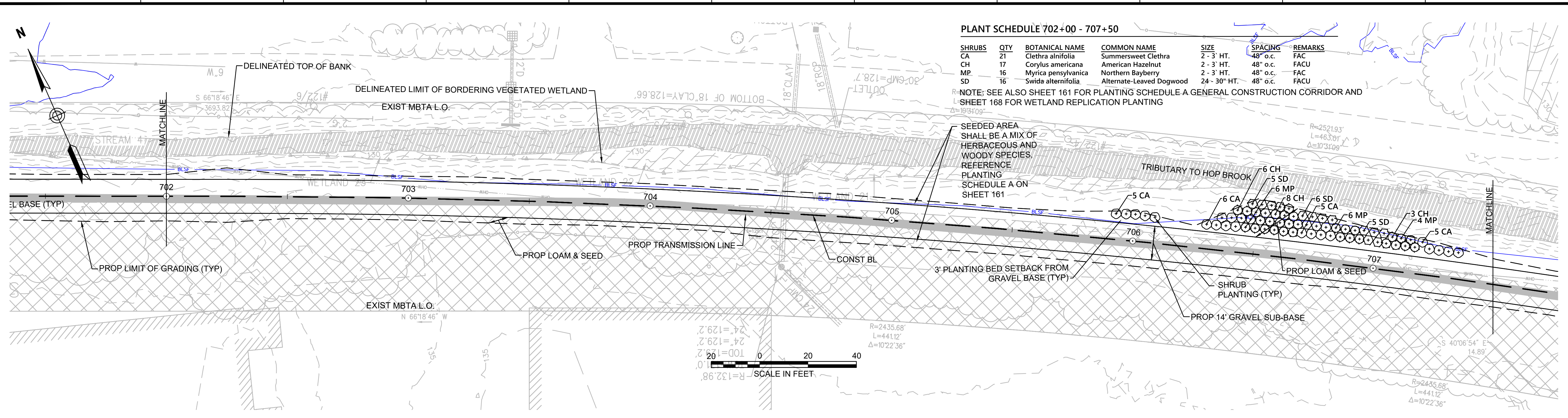
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CONT. ON SHEET 115

CONT. ON SHEET 117

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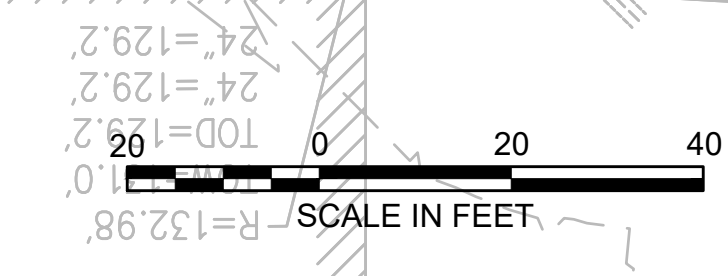


PLANT SCHEDULE 702+00 - 707+50

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.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 116 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			

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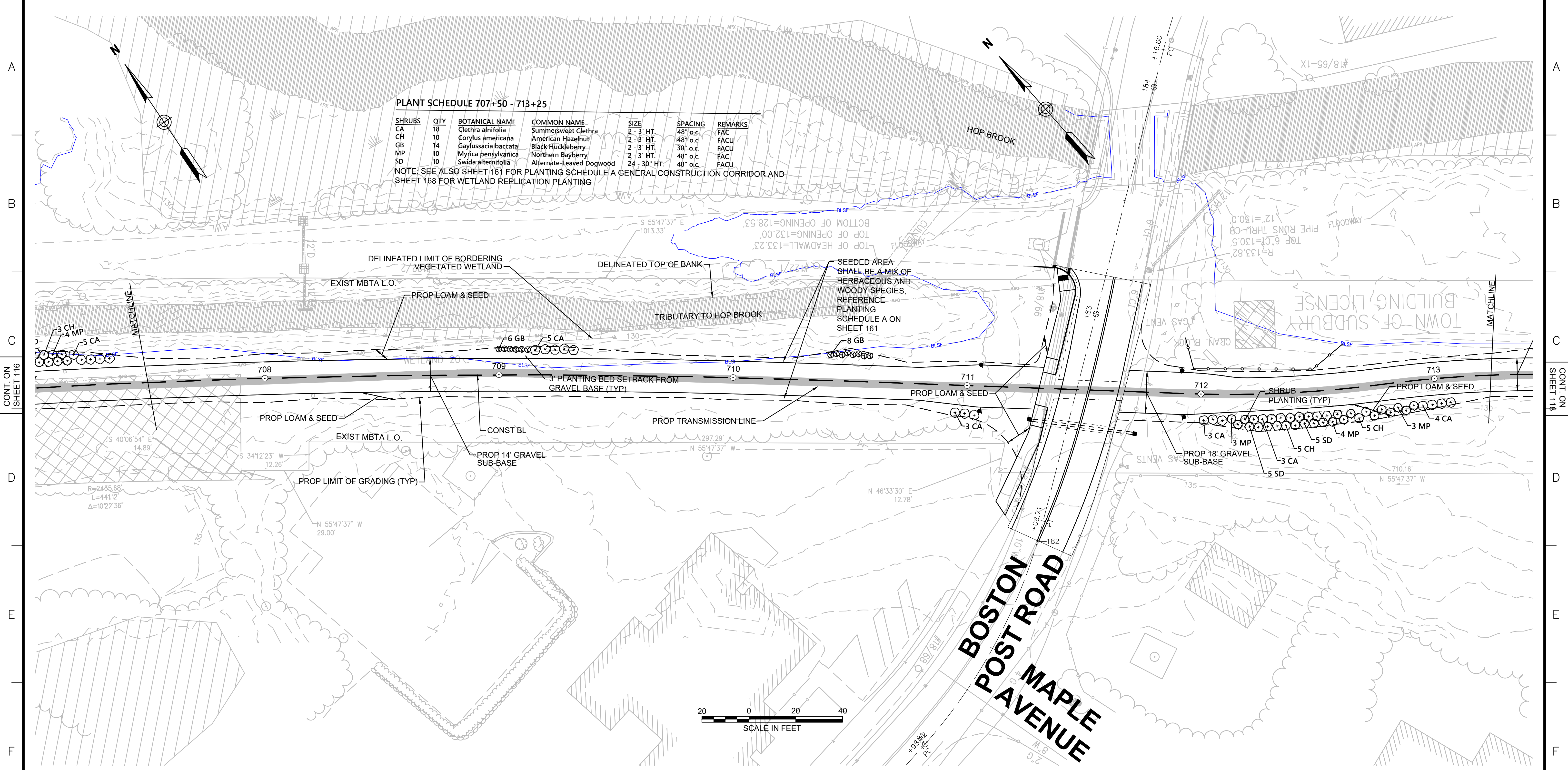
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PLANT SCHEDULE 707+50 - 713+25

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	18	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FACU
CH	10	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	14	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

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			

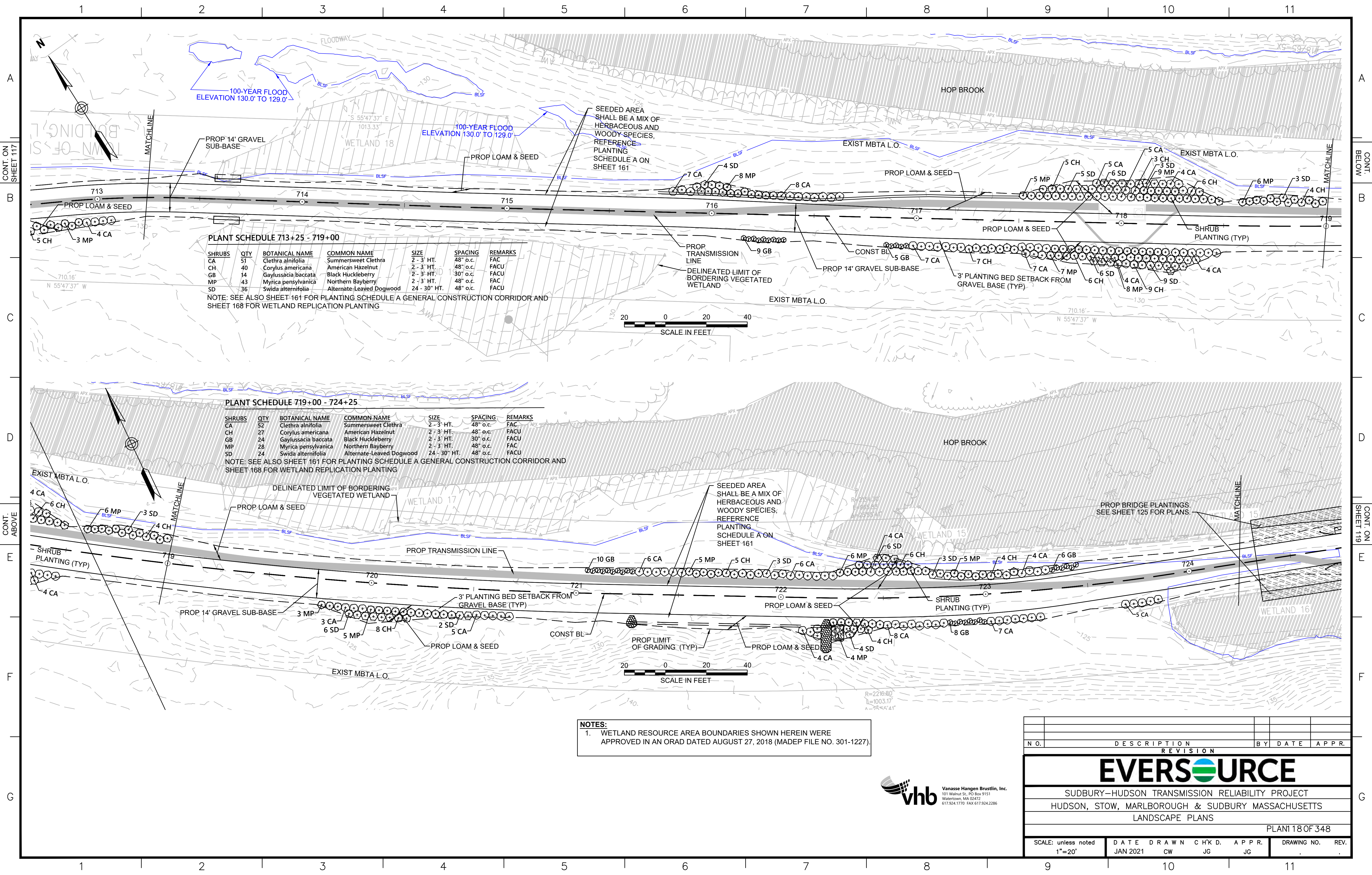
EVERSOURCE

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

PLAN 117 OF 348

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

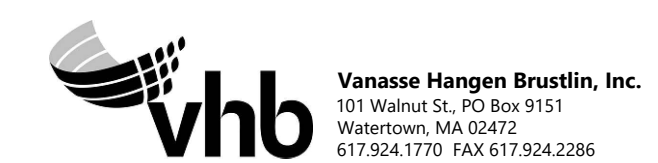
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING

PLANT SCHEDULE 719+00 - 724+25

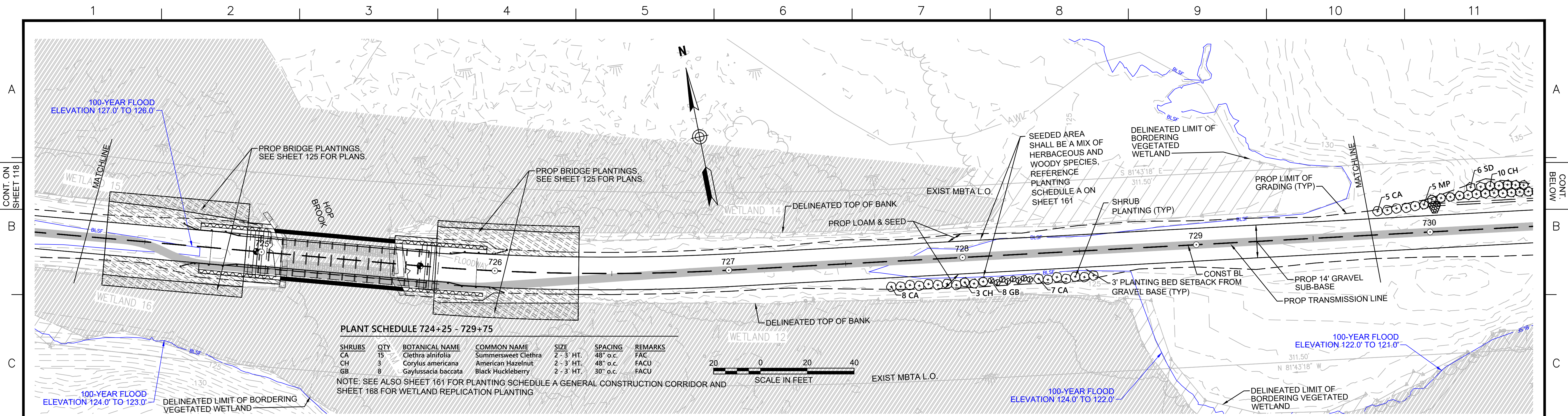
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	52	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	27	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	24	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
MP	28	Myrica pensylvanica	Northern Bayberry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



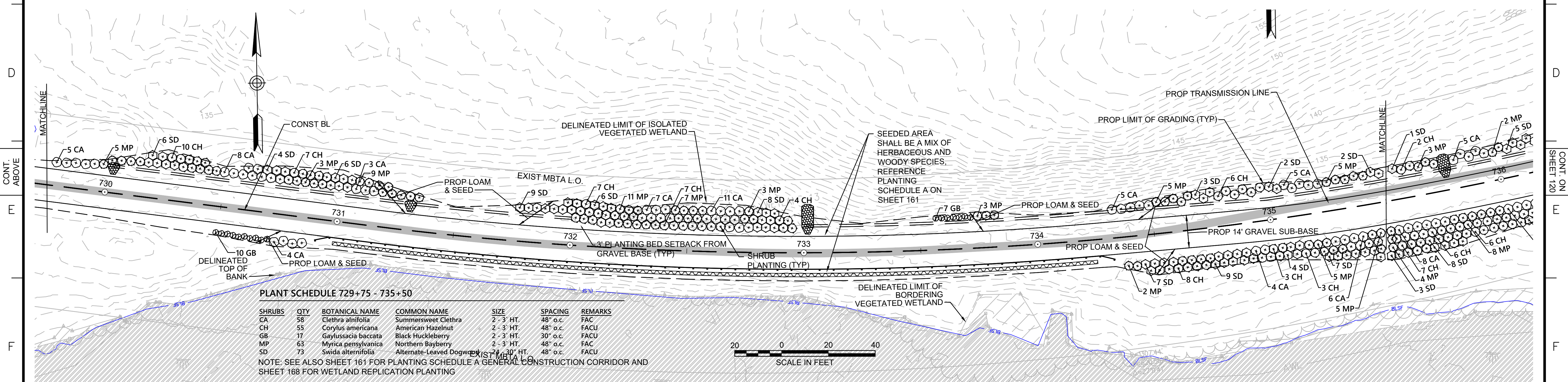
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
LANDSCAPE PLANS				
PLAN 118 OF 348				
SCALE: unless noted 1"=20'	DATE JAN 2021	DRAWN CW	CHK'D. JG	APPR. JG
DRAWING NO.	REV.			



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.
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 119 OF 348					
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO.
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CONT. ON SHEET 119

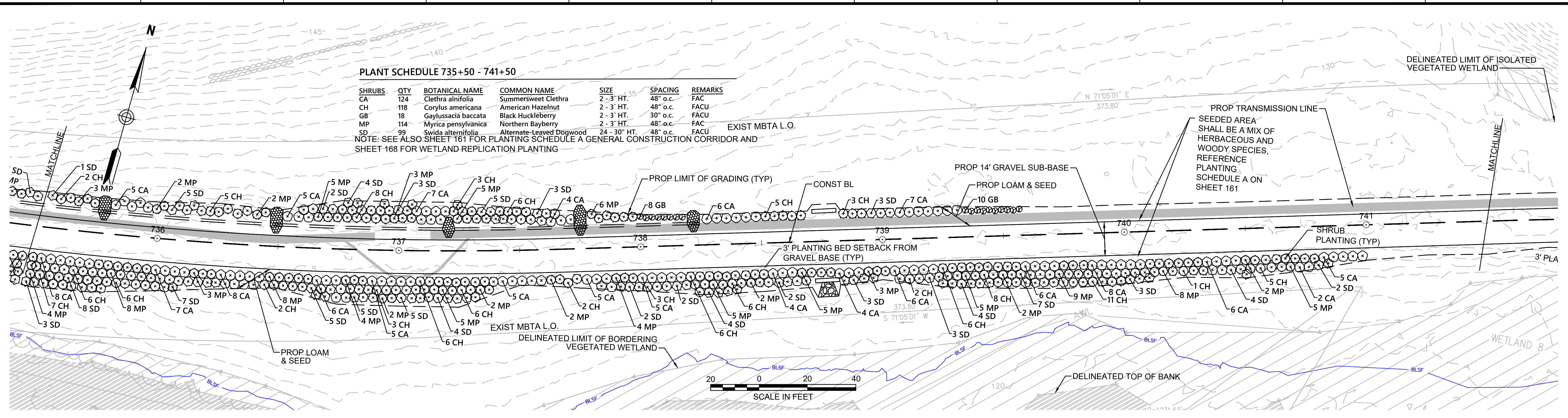
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PLANT SCHEDULE 735+50 - 741+50

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

EXIST MBTA L.O.

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



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CONT. ON SHEET 121

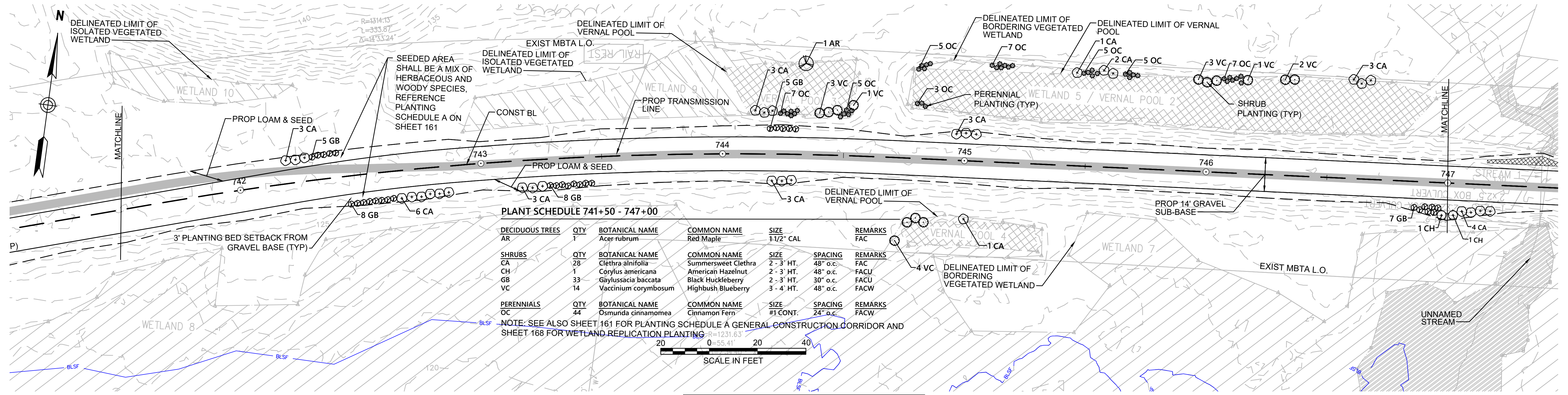
PLANT SCHEDULE 741+50 - 747+00

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

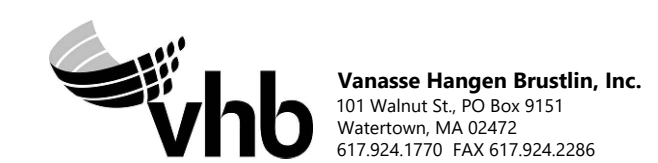
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	28	Clethra alnifolia	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	1	Corylus americana	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
GB	33	Gaylussacia baccata	Black Huckleberry	2 - 3' HT.	30" o.c.	FACU
VC	14	Vaccinium corymbosum	Highbush Blueberry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

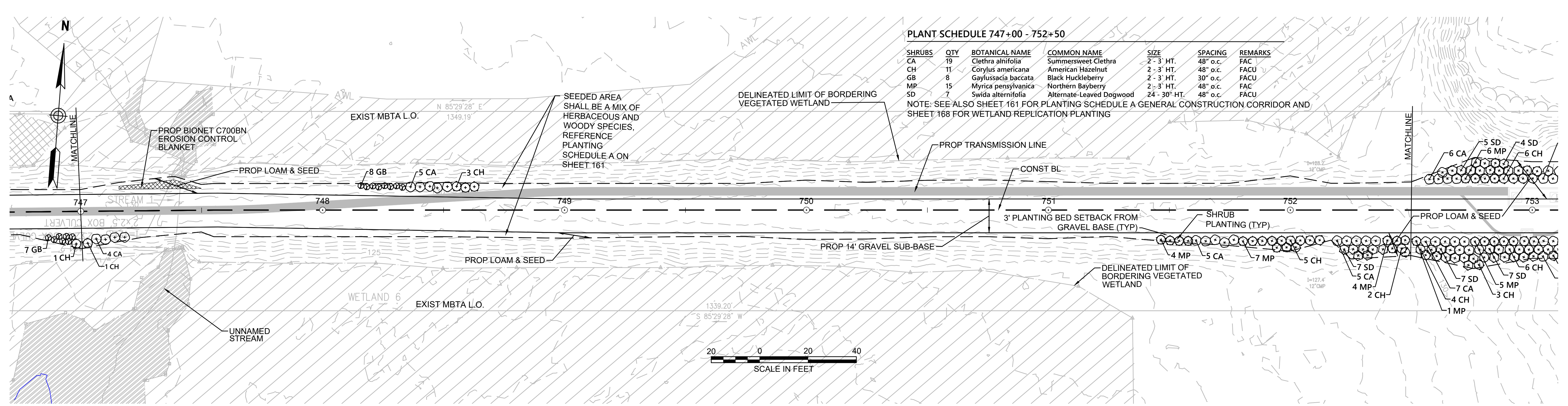
PLAN 120 OF 348

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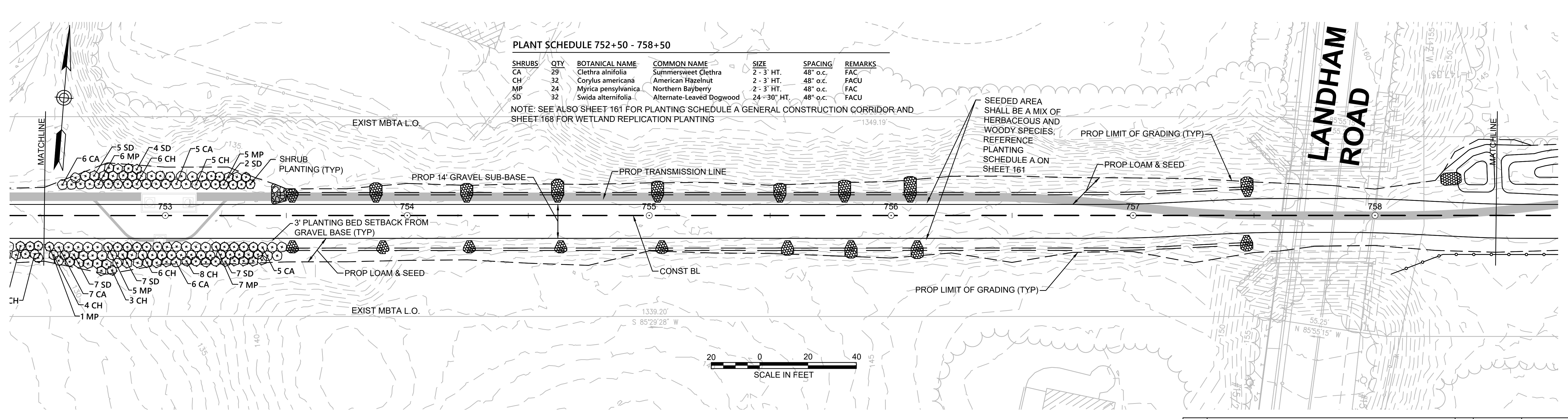
PLANT SCHEDULE 747+00 - 752+50

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	19	<i>Clethra alnifolia</i>	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	11	<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
MP	15	<i>Myrica pensylvanica</i>	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	7	<i>Swida alternifolia</i>	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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CONT. ON SHEET 122

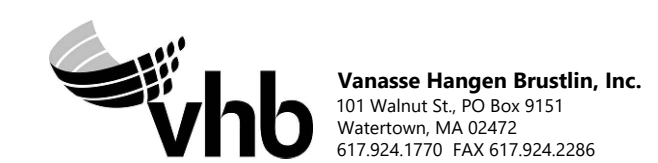


PLANT SCHEDULE 752+50 - 758+50

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
CA	29	<i>Clethra alnifolia</i>	Summersweet Clethra	2 - 3' HT.	48" o.c.	FAC
CH	32	<i>Corylus americana</i>	American Hazelnut	2 - 3' HT.	48" o.c.	FACU
MP	24	<i>Myrica pensylvanica</i>	Northern Bayberry	2 - 3' HT.	48" o.c.	FAC
SD	32	<i>Swida alternifolia</i>	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 348

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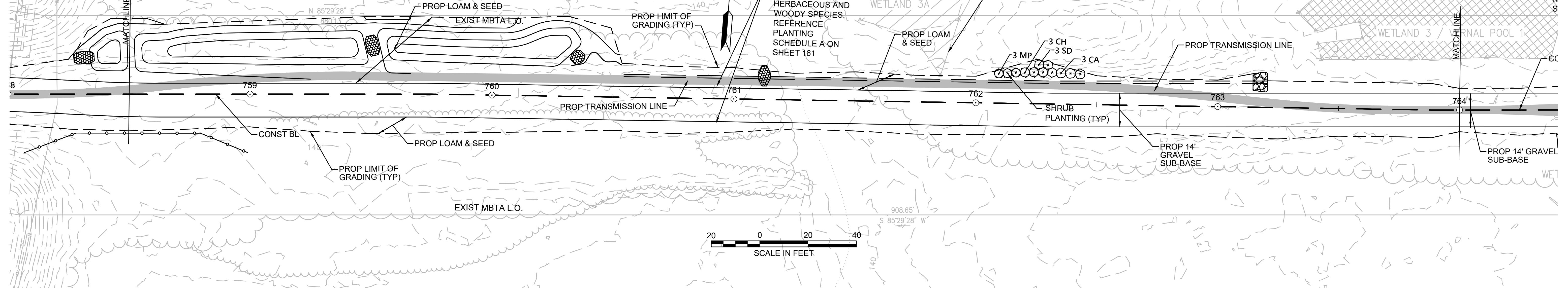
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PLANT SCHEDULE 758+50 - 764+00

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

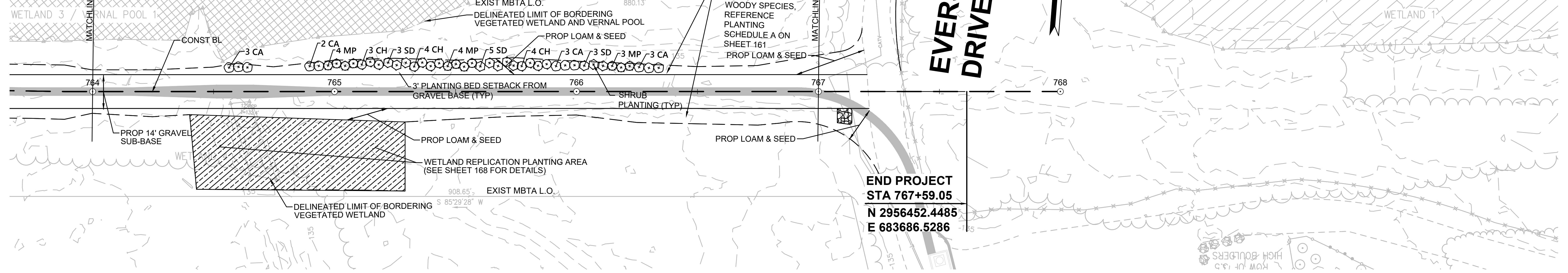
NOTE: SEE ALSO SHEET 161 FOR PLANTING SCHEDULE A GENERAL CONSTRUCTION CORRIDOR AND SHEET 168 FOR WETLAND REPLICATION PLANTING



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



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

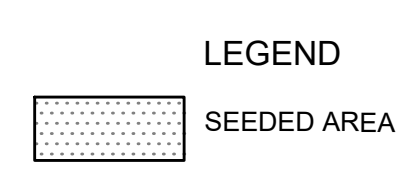
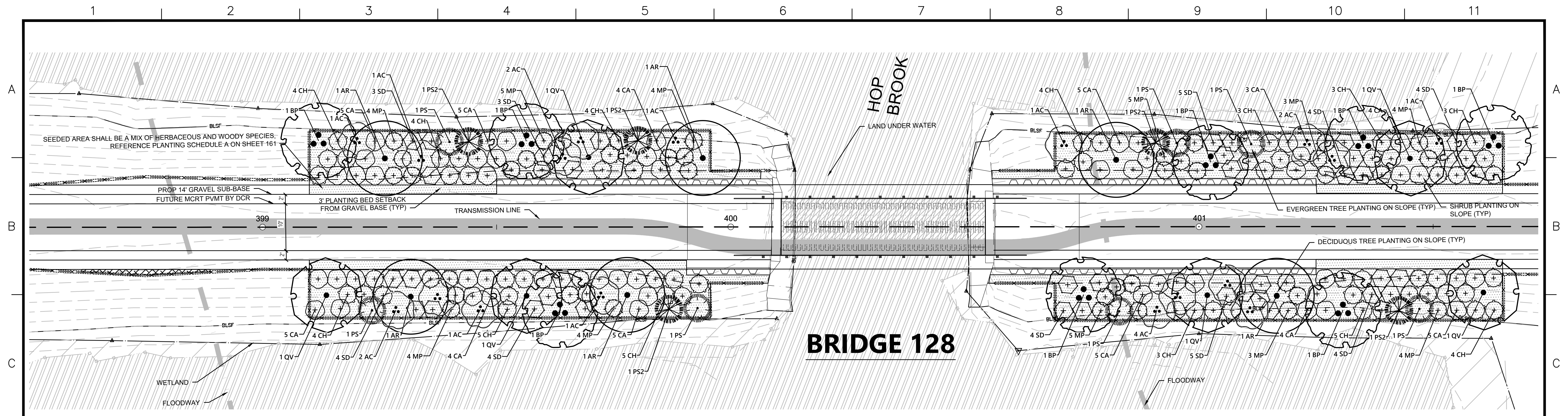


NO.		DESCRIPTION	BY	DATE	APPR.
REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
LANDSCAPE PLANS					
PLAN 122 OF 348					
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D	APPR.	DRAWING NO.
	JAN 2021	CW	JG	JG	REV.

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PLANT SCHEDULE WEST SIDE

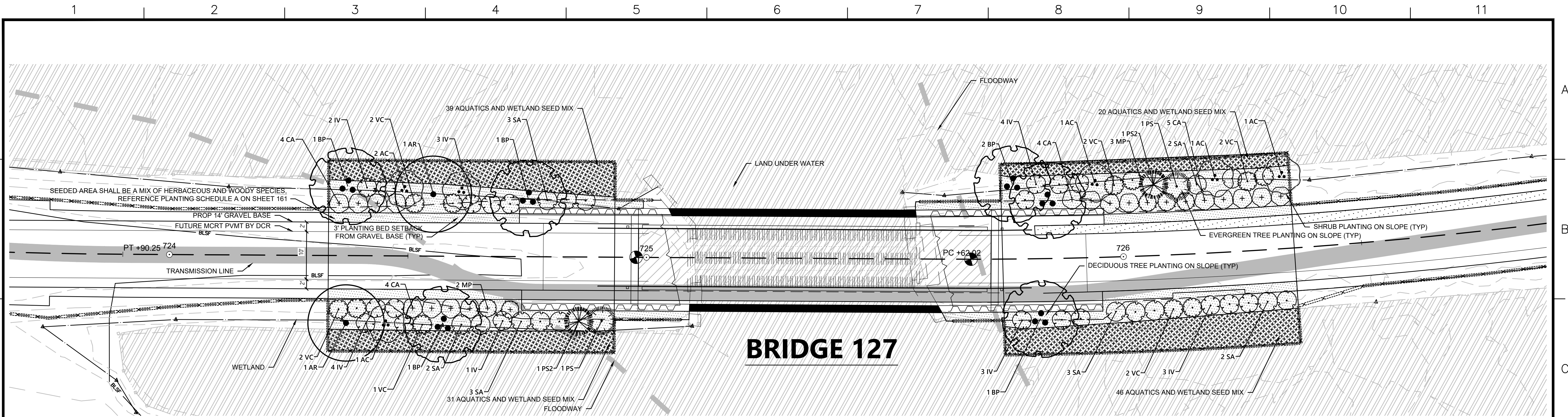
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	4	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	9	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	3	Quercus velutina	Black Oak	1 1/2" CAL	UPL
EVERGREEN TREES	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

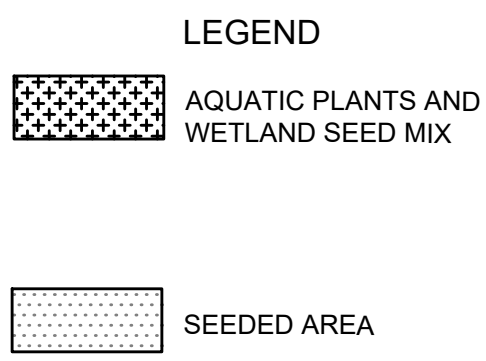
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AR	2	Acer rubrum	Red Maple	1 1/2" CAL	FAC
AC	8	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	5	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
QV	3	Quercus velutina	Black Oak	1 1/2" CAL	UPL
EVERGREEN TREES	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				
PLAN 24 OF 348				
SCALE: unless noted 1"=10'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



BRIDGE 127



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	Pickeralweed	2" plug	36" o.c. OBL
17		Sagittaria latifolia	Common Arrowhead	2" plug	36" o.c. OBL

PLANT SCHEDULE EAST SIDE

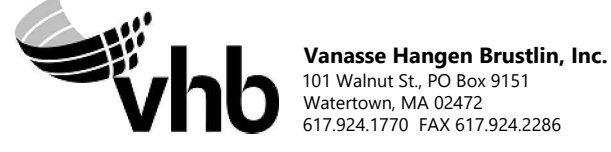
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
AC	3	Amelanchier canadensis	Serviceberry	10 - 12' HT./Multi-Stem	FAC
BP	3	Betula populifolia	Gray Birch	10 - 12' HT./Multi-Stem	FAC
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	WETLAND STATUS
PS	1	Pinus strobus	White Pine	6 - 8' 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	Pickeralweed	2" plug	36" o.c. OBL
16		Sagittaria latifolia	Common Arrowhead	2" plug	36" o.c. OBL

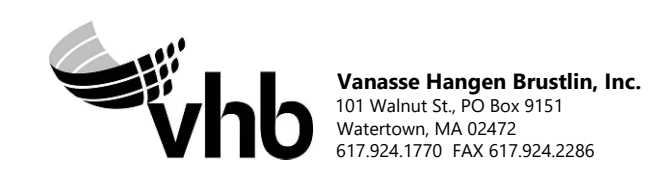
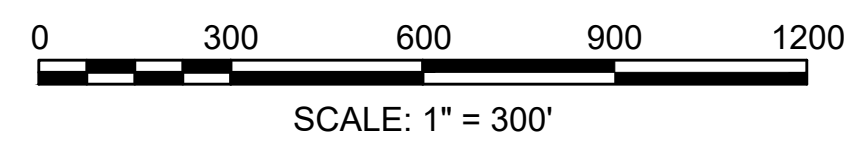
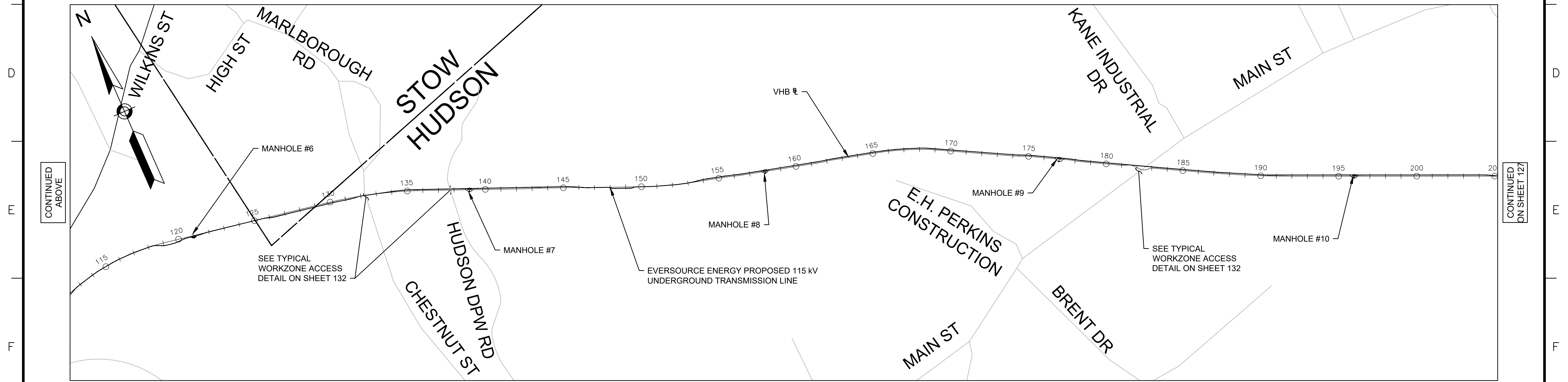
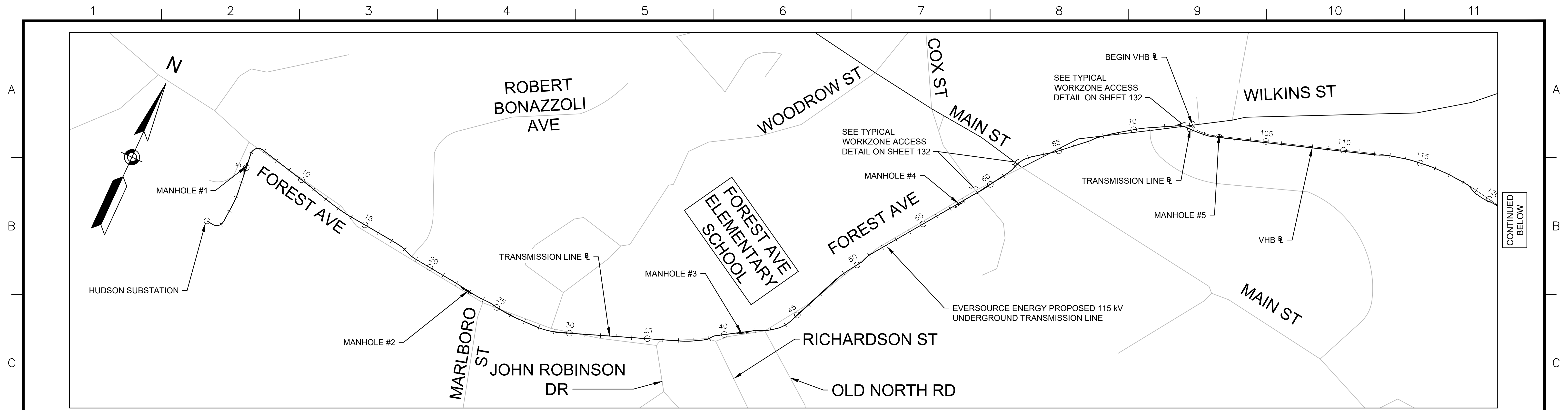
WETLAND SEED MIX

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

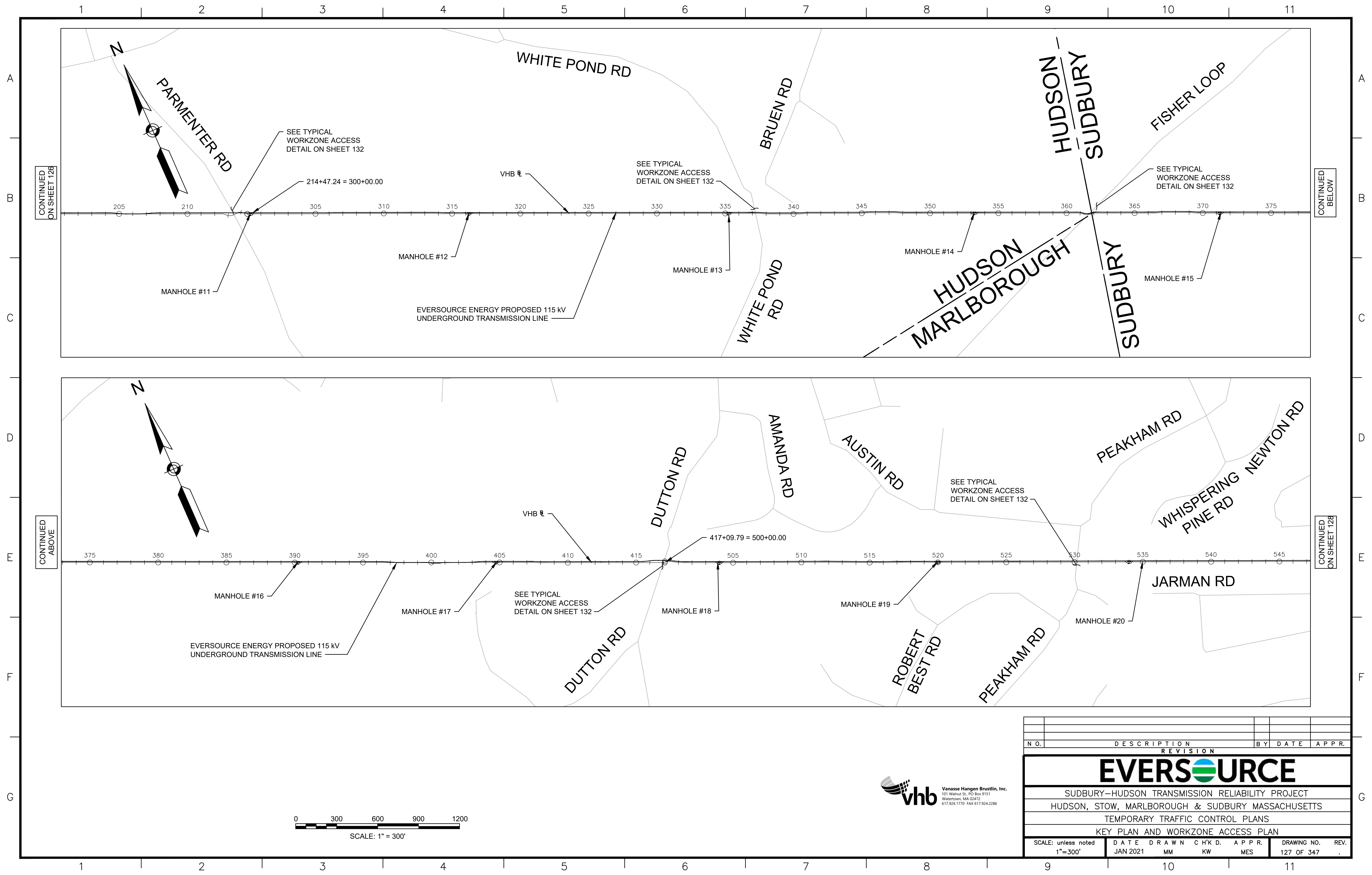
Wetland seed mix: "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: fox sedge (Carex vulpinoidea), sallow sedge (Carex lurida), broom sedge (Carex scoparia), sensitive fern (Onoclea sensibilis), blue vervain (Verbena hastata), hop sedge (Carex lupulina), dark-green bulrush (Scirpus atrovirens), nodding bur-marigold (Bidens cernua), bristly sedge (Carex comosa), fringed sedge (Carex crinita), tall 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 (Symphyotrichum novae-angliae), rattlesnake mannagrass (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						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
LANDSCAPE PLANS						
PLAN 125 OF 348						
SCALE: unless noted 1"=10'	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
	JAN 2021	MS	SK	MES		





N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
KEY PLAN AND WORKZONE ACCESS PLAN				
SCALE: unless noted 1"=300'	DATE	DRAWN	CHK'D.	APPR.
	JAN 2021	MM	KW	MES
DRAWING NO.	REV.			
126 OF 347				

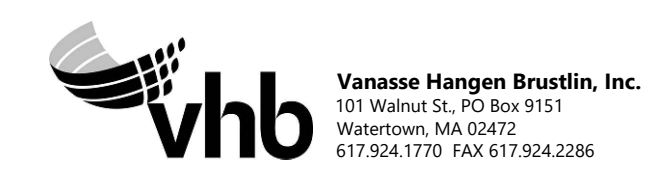
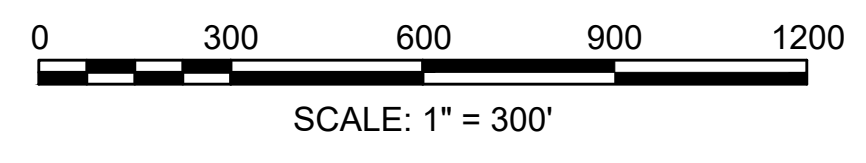


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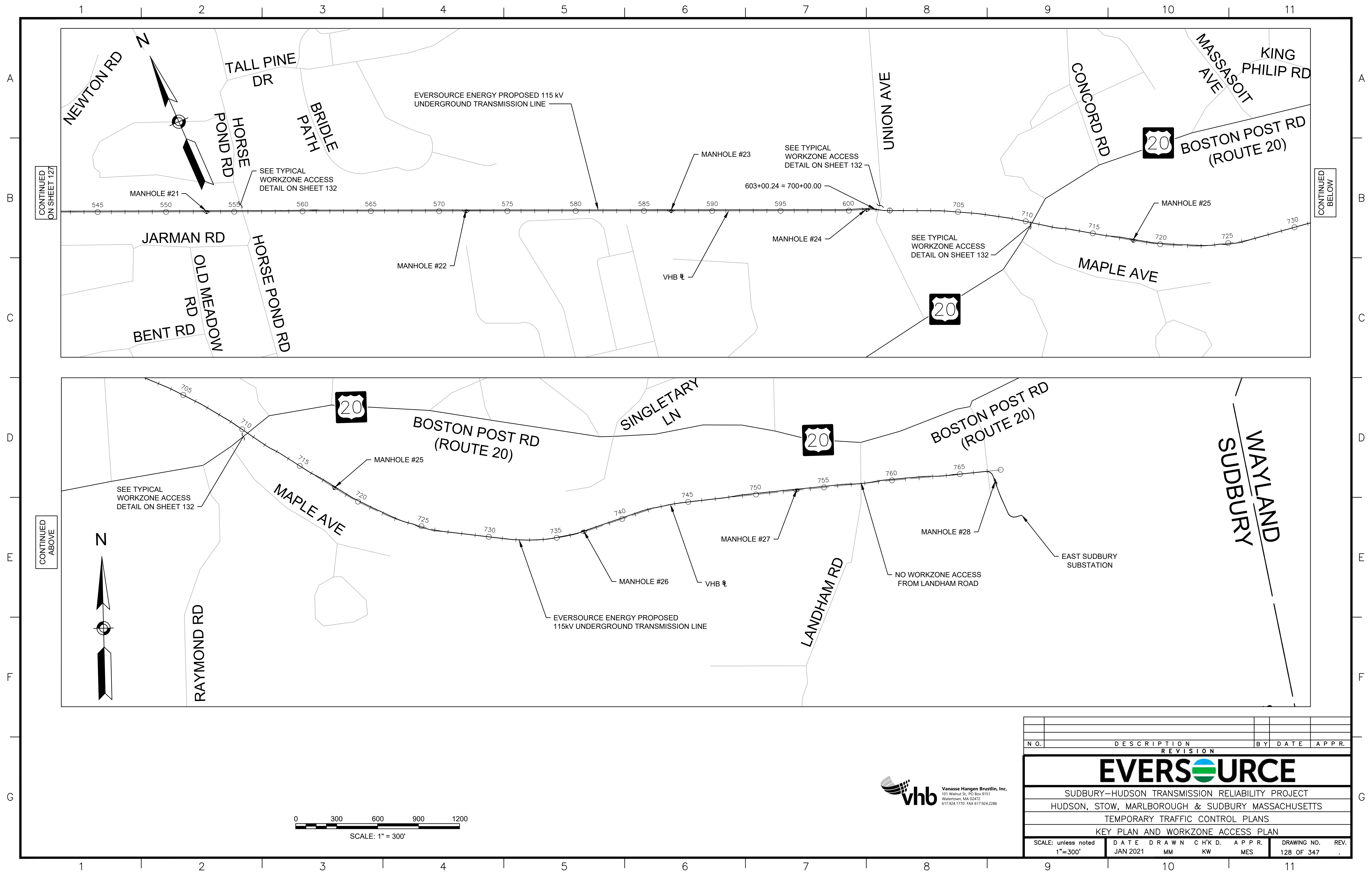


N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 KEY PLAN AND WORKZONE ACCESS PLAN

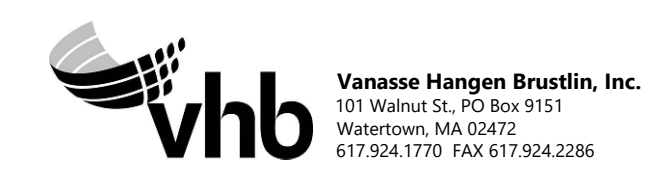
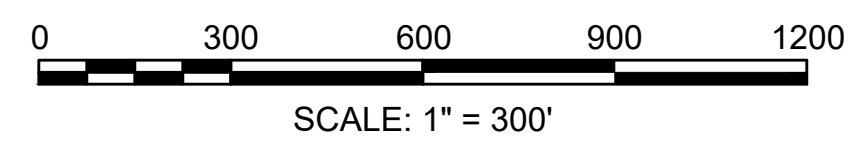
SCALE: unless noted 1"=300'	DATE JAN 2021	DRAWN MM	CHK'D. KW	APPR. MES	DRAWING NO. 127 OF 347	REV. .
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

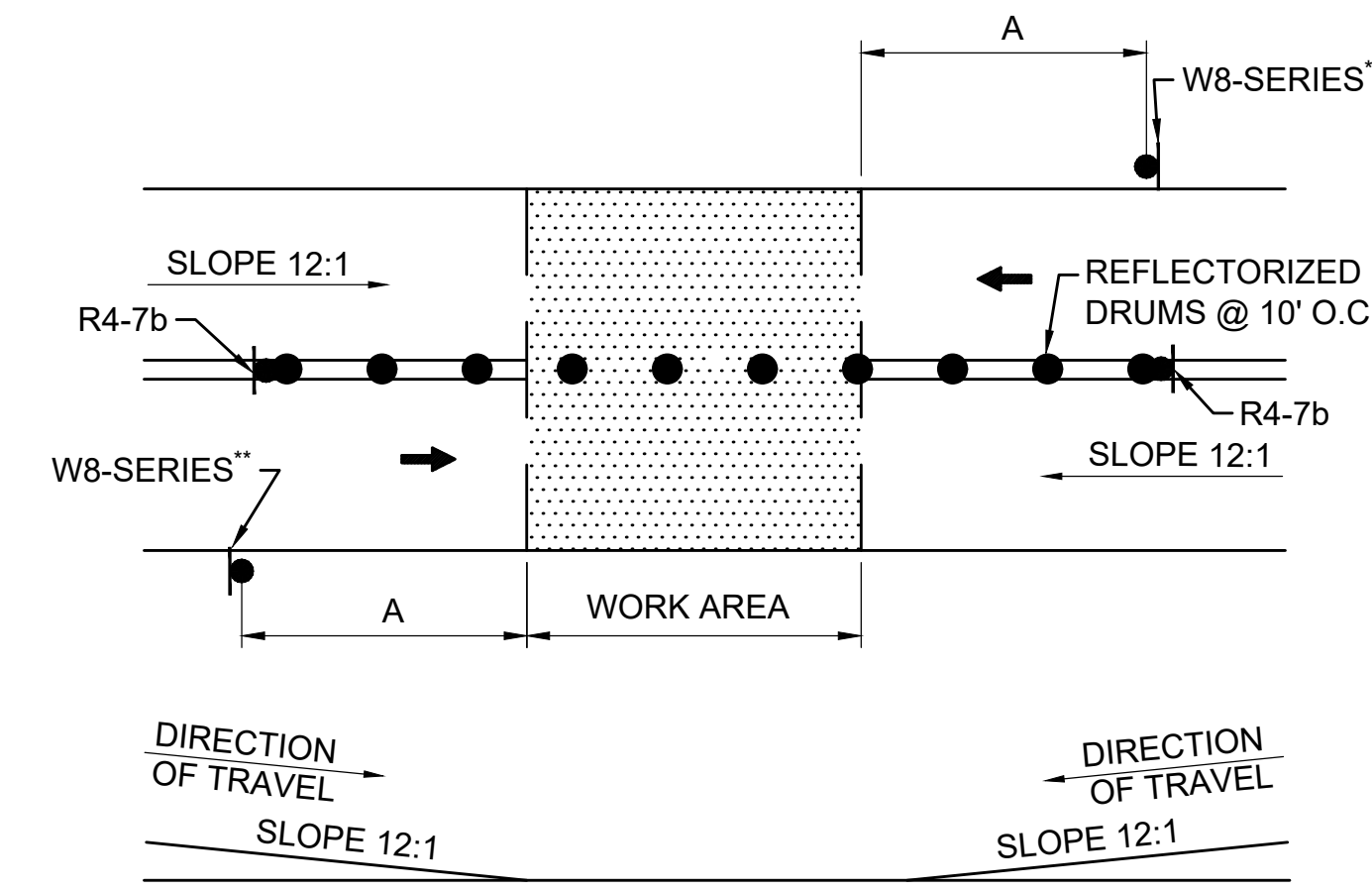
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 KEY PLAN AND WORKZONE ACCESS PLAN

SCALE: unless noted 1"=300'	DATE JAN 2021	DRAWN MM	CHK'D KW	APPR. MES	DRAWING NO. 128 OF 347	REV.
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GENERAL NOTES

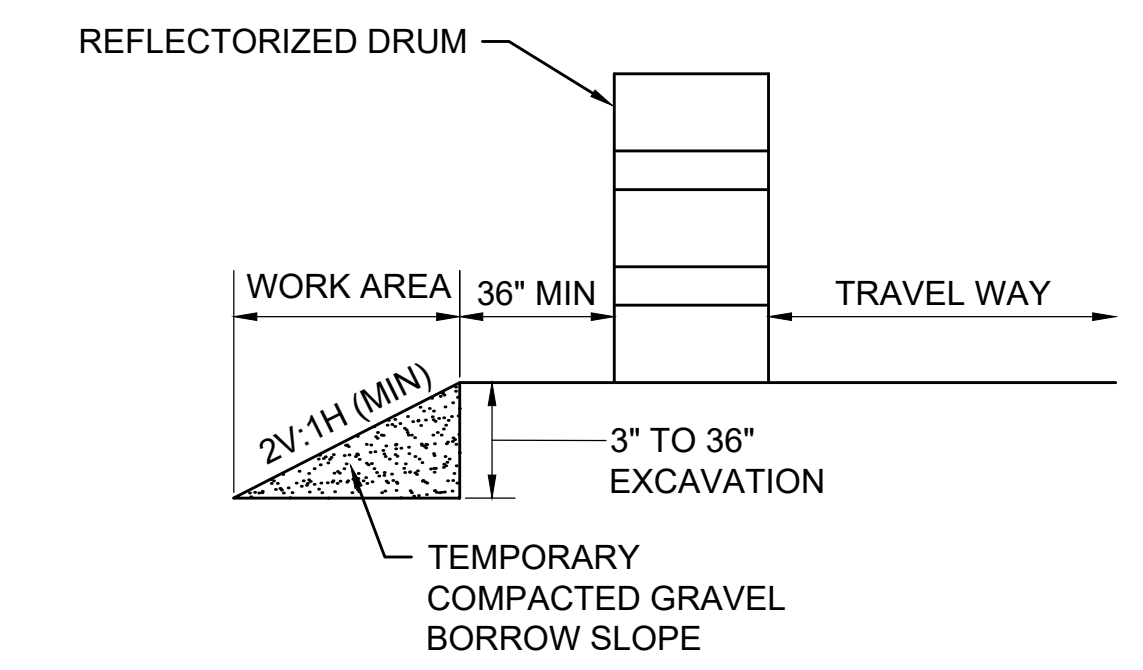
- ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- WORK HOURS SHALL BE AS STIPULATED BY THE ENERGY FACILITIES SITING BOARD (EFSB) AND AS APPROVED BY AGENCY OR MUNICIPALITY WITH JURISDICTION OF THE ROADWAY. IT IS ASSUMED WORK AT THE INTERSECTIONS OF FOREST AVENUE AT MARLBORO STREET AND MAIN STREET AT FOREST AVENUE/ WILKINS ST WILL REQUIRE NIGHT WORK. WORK IN THE PROXIMITY OF FOREST AVENUE ELEMENTARY AND CHAPS CHILD CARE WILL ALSO REQUIRE COORDINATION WITH THE TOWN OF HUDSON. THE CLOSURE AND DETOUR OF CHESTNUT STREET SHALL BE COORDINATED WITH THE TOWN OF HUDSON AND THE TOWN OF STOW AND ANY IMPACTS TO SCHOOL BUS ROUTES SHOULD BE CONSIDERED.
- NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS AND PUBLIC RIGHTS-OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
- THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN, WHEN TAPER IS DEPLOYED.
- REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 2 WEEKS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
- FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES.
- CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 11.
- CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:
 4' IF POSTED SPEED IS LESS THAN 35 MPH
 8' IF POSTED SPEED IS 35 MPH
 15' IF POSTED SPEED IS 40 MPH
- 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
- NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNS SHALL NOT BE MOUNTED TO OR LEANED AGAINST DRUMS OR CONES.
- CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS, TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
- THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- TEMPORARY CONSTRUCTION FENCING IS TO BE USED AS NEEDED WHEN WORKING ADJACENT TO PRIVATE PROPERTY TO DELINEATE WORK ZONE LIMITS AND PREVENT UNAUTHORIZED ACCESS.
- WORK ZONE ACCESS POINTS ARE IDENTIFIED ON THE KEY PLAN AND WORK ZONE ACCESS PLAN ON SHEETS 126 - 128. CONTRACTOR SHALL SWEEP AREAS ADJACENT TO THE SIDE ON A DAILY BASIS. CONTRACTOR SHALL REPAIR DAMAGED ROADWAYS AND SIDEWALKS AT THEIR OWN COST.

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



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

TEMPORARY PAVEMENT TRANSITION
SCALE: NTS



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

TYPICAL ROADWAY DROP-OFF PROTECTION
SCALE: NTS

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

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

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



REVISION			
N.O.	DESCRIPTION	BY	DATE

EVERSOURCE

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

SCALE: unless noted NTS	DATE DRAWN JAN 2021	CHK'D. MM	APP'R. KW	MES	DRAWING NO. 129 OF 347	REV. .
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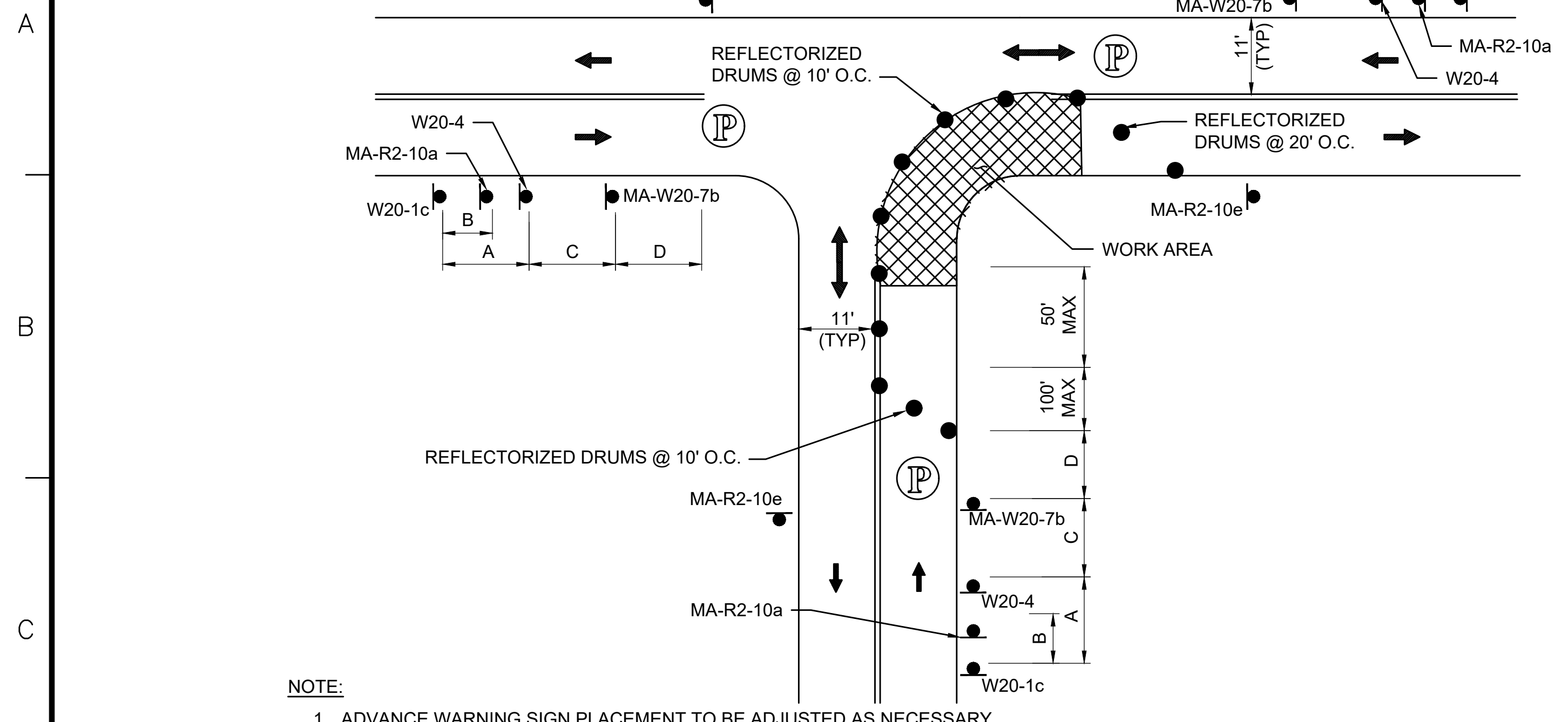
SUGGESTED TEMPORARY TRAFFIC CONTROL SETUP APPLICATION

TOWN	ROADWAY	TRANSMISSION $\frac{1}{2}$ STATION (SEE NOTE 1)	VHB $\frac{1}{2}$ STATION (SEE NOTE 2)	TEMPORARY TRAFFIC CONTROL SETUPS	SHEET NUMBER	NOTES	
HUDSON	EVERSOURCE	0+00 \pm TO 6+20 \pm	--	OFF-ROAD	--	--	
	FOREST AVENUE	6+20 \pm TO 6+40 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC PEDESTRIAN BYPASS TYPE II DETAIL	SHEET 131 SHEET 132	--	
		6+40 \pm TO 22+20 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
		22+20 \pm TO 23+80 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	MANHOLE #2	
		23+80 \pm TO 24+40 \pm	--	SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 1	SHEET 133	AT MARLBORO ST	
		24+40 \pm TO 26+00 \pm	--	SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 2	SHEET 134	AT MARLBORO ST	
		26+00 \pm TO 29+20 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
		29+20 \pm TO 30+20 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	AT WOODROW ST	
		30+20 \pm TO 35+60 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
		35+60 \pm TO 37+00 \pm	--	CLOSURE AND DETOUR PLAN - JOHN ROBINSON DR	SHEET 139	AT JOHN ROBINSON RD	
		37+00 \pm TO 39+00 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
		39+00 \pm TO 40+50 \pm	--	ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS	SHEET 131	AT RICHARDSON ST	
		40+50 \pm TO 41+80 \pm MANHOLE #3	--	CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #3	SHEET 140	MANHOLE #3	
		41+80 \pm TO 42+50 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
		42+50 \pm TO 44+00 \pm	--	ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS	SHEET 131	AT OLD NORTH RD	
		44+00 \pm TO 56+80 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
	56+80 \pm TO 58+40 \pm MANHOLE #4	--	CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #4	SHEET 141	MANHOLE #4		
	58+40 \pm TO 61+40 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--		
	FOREST AVENUE / WILKINS ST	61+40 \pm TO 62+00 \pm	--	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 1 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK	SHEET 135 SHEET 149	AT MAIN / WILKINS ST	
		62+00 \pm TO 62+30 \pm	--	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 2 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4	SHEET 136 SHEET 141	AT MAIN / WILKINS ST	
		62+30 \pm TO 62+40 \pm	--	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 3 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4	SHEET 137 SHEET 141	AT MAIN / WILKINS ST	
		62+40 \pm TO 63+30 \pm	--	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 4 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK	SHEET 138 SHEET 149	AT MAIN / WILKINS ST	
	WILKINS ST	63+30 \pm TO 73+60 \pm	--	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	--	
	STOW	MBTA ROW	--	100+31 \pm TO 124+95 \pm	OFF-ROAD	--	--
		MBTA ROW	--	124+95 \pm TO 128+30 \pm	OFF-ROAD	--	--
	HUDSON	MBTA ROW	--	128+30 \pm TO 132+50 \pm	OFF-ROAD	--	--
		CHESTNUT ST	--	132+50 \pm TO 132+80 \pm	CLOSURE AND DETOUR PLAN- CHESTNUT ST AND MARLBORO RD	SHEET 143	AT CHESTNUT ST
		MBTA ROW	--	132+80 \pm TO 181+60 \pm	OFF-ROAD	--	--
MAIN ST		--	181+60 \pm TO 182+30 \pm	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	AT MAIN ST	
MBTA ROW		--	182+30 \pm TO 213+50 \pm	OFF-ROAD	--	--	
PARMENTER RD		--	213+50 \pm TO 213+70 \pm	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	AT PARMENTER RD	
MBTA ROW		--	213+70 \pm TO 214+47 \pm 214+47 \pm = 300+00 \pm 300+00 \pm TO 336+90 \pm	OFF-ROAD	--	--	
WHITE POND RD		--	336+90 \pm TO 337+10 \pm	CLOSURE AND DETOUR PLAN- WHITE POND RD	SHEET 144	AT WHITE POND RD	
MARLBOROUGH	MBTA ROW	--	337+10 \pm TO 361+40 \pm	OFF-ROAD	--	--	
	MBTA ROW	--	361+40 \pm TO 361+55 \pm	OFF-ROAD	--	--	
SUDBURY	MBTA ROW	--	361+55 \pm TO 416+85 \pm	OFF-ROAD	--	--	
	DUTTON RD	--	416+85 \pm TO 417+10 \pm 417+10 \pm = 500+00 \pm	CLOSURE AND DETOUR PLAN- DUTTON RD	SHEET 145	AT DUTTON RD	
	MBTA ROW	--	500+00 \pm TO 530+45 \pm	OFF-ROAD	--	--	
	PEAKHAM RD	--	530+45 \pm TO 530+65 \pm	PEDESTRIAN BYPASS TYPE I DETAIL CLOSURE AND DETOUR- PEAKHAM RD	SHEET 132 SHEET 146	AT PEAKHAM RD	
	MBTA ROW	--	530+65 \pm TO 555+75 \pm	OFF-ROAD	--	--	
	HORSE POND RD	--	555+75 \pm TO 556+00 \pm	PEDESTRIAN BYPASS TYPE I DETAIL CLOSURE AND DETOUR- HORSE POND RD	SHEET 132 SHEET 147	AT HORSE POND RD	
	MBTA ROW	--	556+00 \pm TO 602+35 \pm	OFF-ROAD	--	--	
	UNION AVE	--	602+35 \pm TO 602+65 \pm	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC	SHEET 131	AT UNION AVE	
	MBTA ROW	--	602+65 \pm TO 603+00 \pm 603+00 \pm = 700+00 \pm 700+00 \pm TO 711+35 \pm	OFF-ROAD	--	--	
	BOSTON POST RD (ROUTE 20)	--	711+35 \pm TO 711+65 \pm	SEE NOTE 4	--	AT BOSTON POST RD	
SUDBURY	MBTA ROW	--	711+65 \pm TO 757+65 \pm	OFF-ROAD	--	--	
	LANDHAM RD	--	757+65 \pm TO 758+00 \pm	OFF-ROAD	--	BELOW LANDHAM RD	
	MBTA ROW	--	758+00 \pm TO 767+30 \pm	OFF-ROAD	--	--	
EVERSOURCE	475+40 \pm TO 479+85	--	OFF-ROAD	--	--		

- NOTES:
- REFER TO KEY PLAN AND WORKZONE ACCESS PLAN ON SHEETS 127 & 128 FOR OVERVIEW. SEE EVERSOURCE ENERGY 115kV UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE FOR ADDITIONAL INFORMATION.
 - REFER TO VHB CONSTRUCTION PLANS ON SHEETS 17-39 FOR ADDITIONAL INFORMATION.
 - REFER TO GENERAL NOTE 2 ON SHEET 129 REGARDING WORK HOURS.
 - REFER TO APPROVED MASSDOT ACCESS PERMIT TTCP FOR WORK ALONG ROUTE 20.



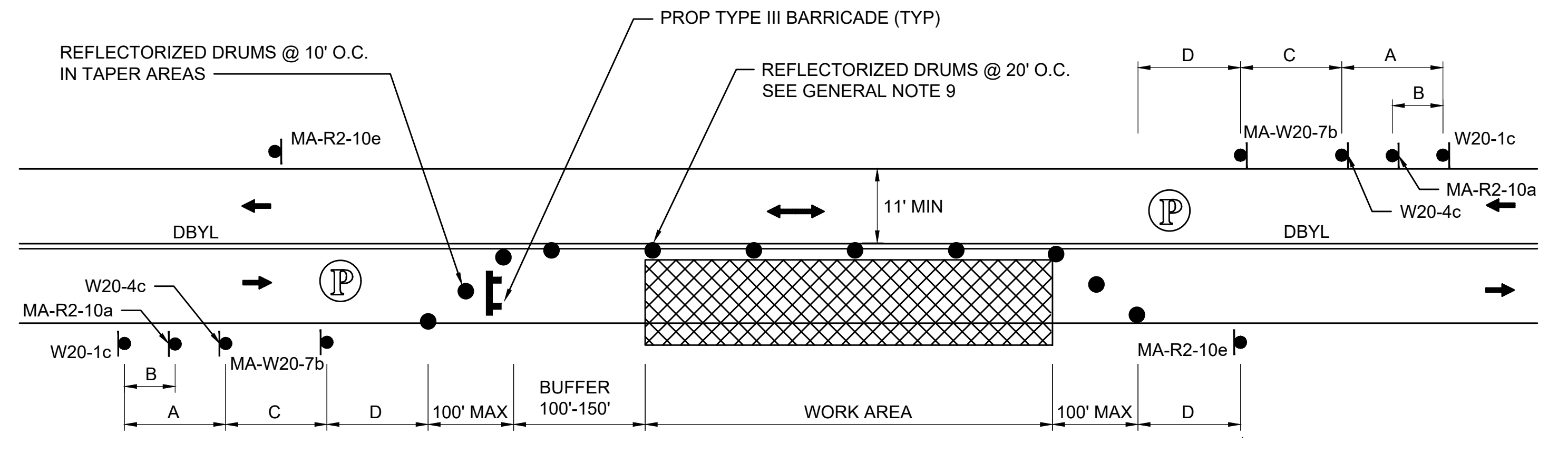
NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY--HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
TEMPORARY TRAFFIC CONTROL PLANS						
SUGGESTED TEMPORARY TRAFFIC CONTROL						
SCALE: unless noted NTS	DATE	DRAWN	CHK'D	A.P.P.R.	DRAWING NO.	REV.
	JAN 2021	MM	KW	MES	130 OF 347	.



NOTE:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS

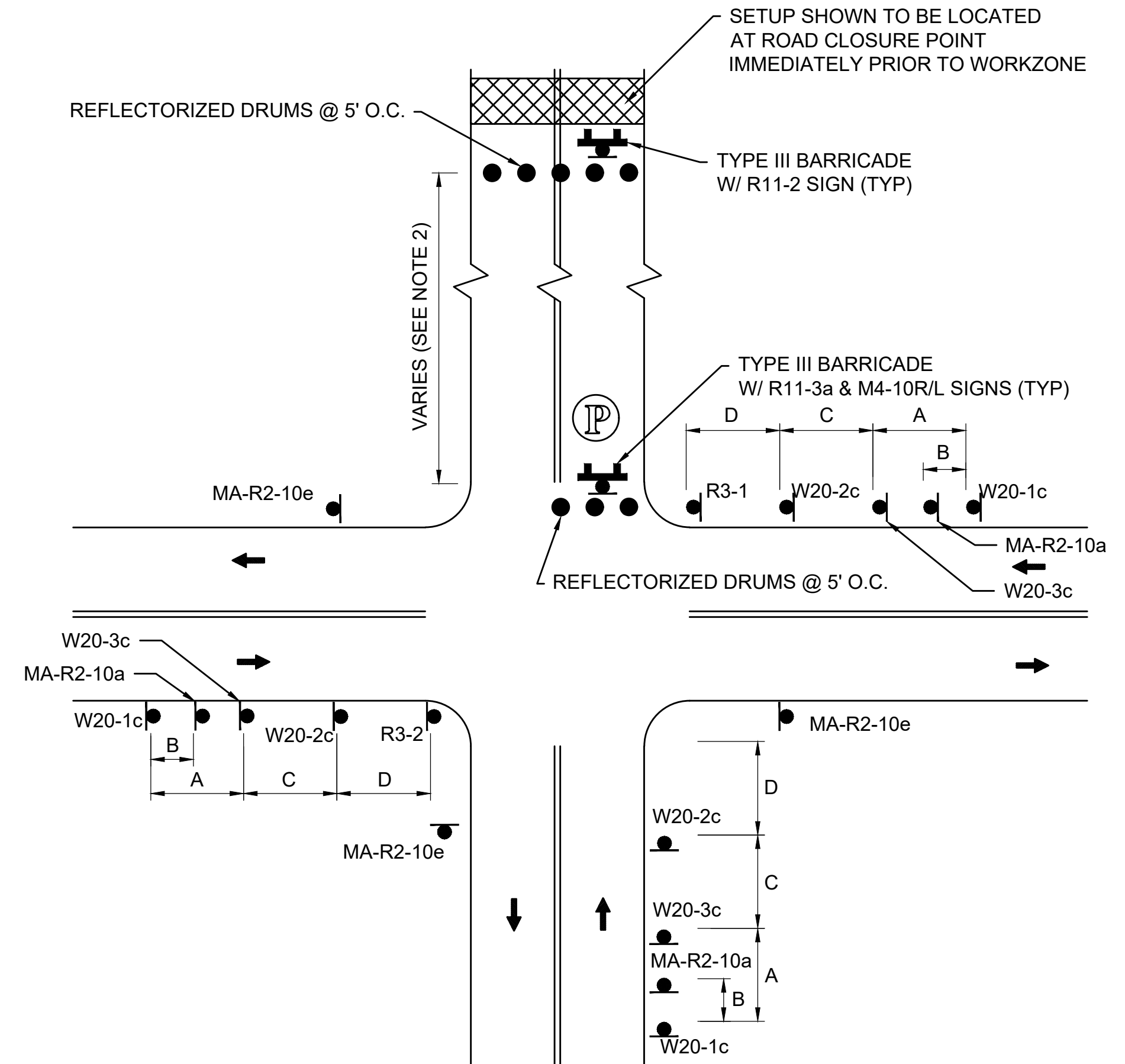
SCALE: NTS



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

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

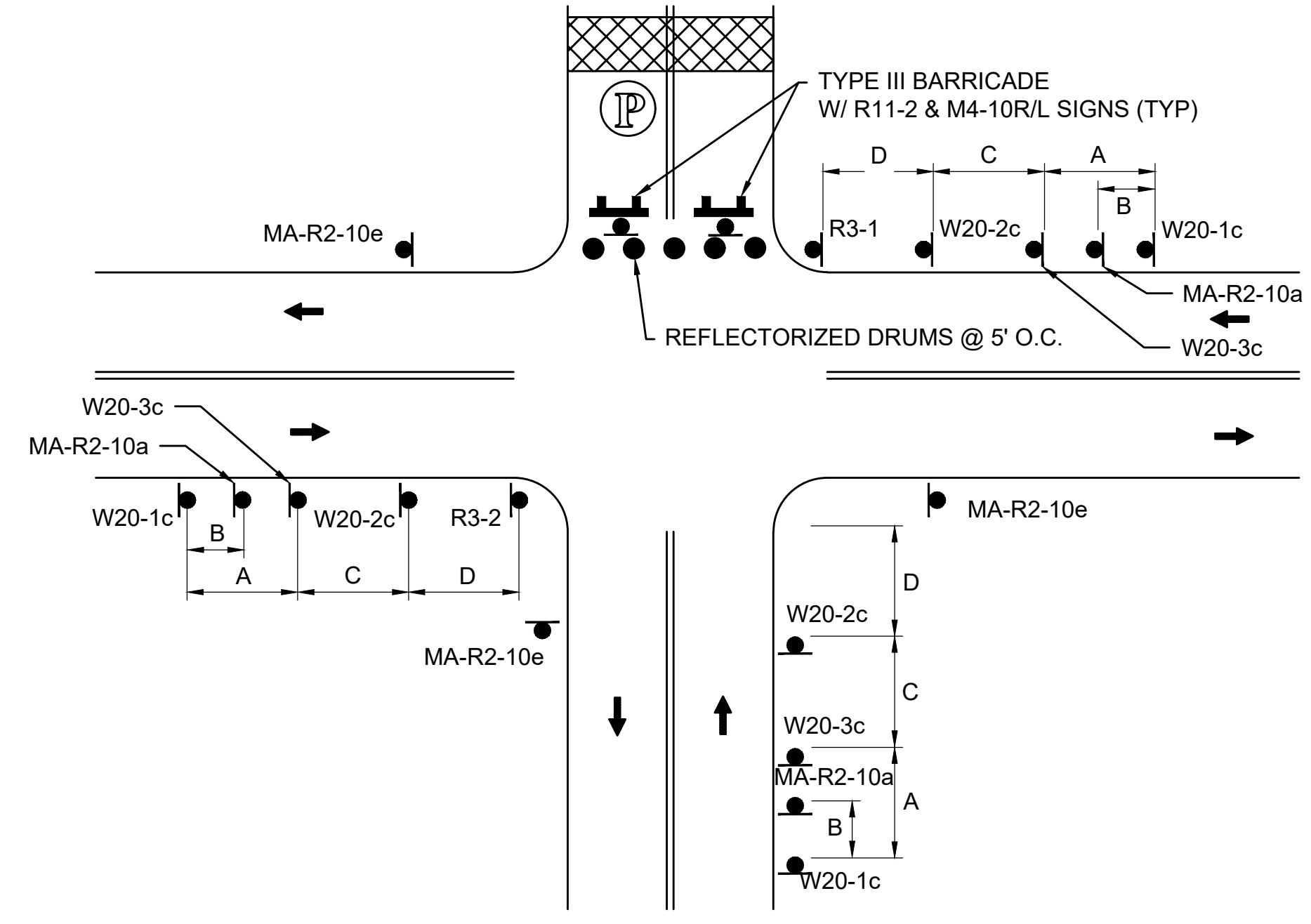
SCALE: NTS



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

TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS

SCALE: NTS



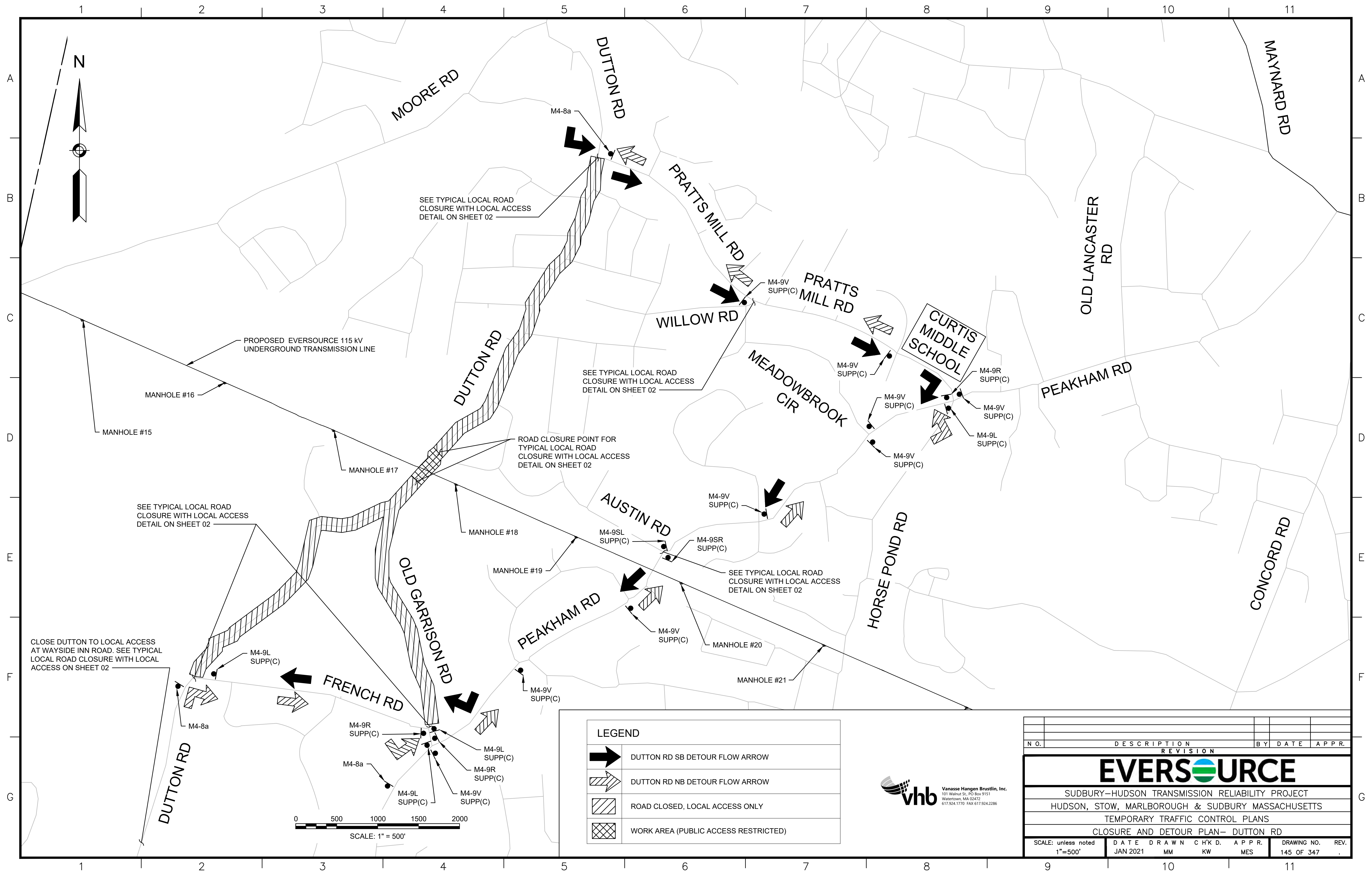
NOTE:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL LOCAL ROAD CLOSURE

SCALE: NTS



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
TYPICAL DETAILS				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MM	CHK'D. KW	APPR. MES
	DRAWING NO. 131 OF 347	REV.		



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

PROPOSED EVERSOURCE 115 kV UNDERGROUND TRANSMISSION LINE

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

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

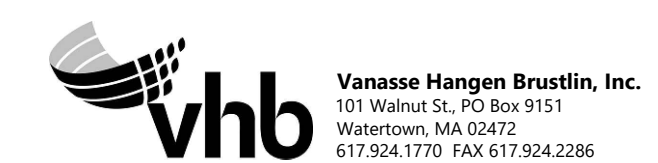
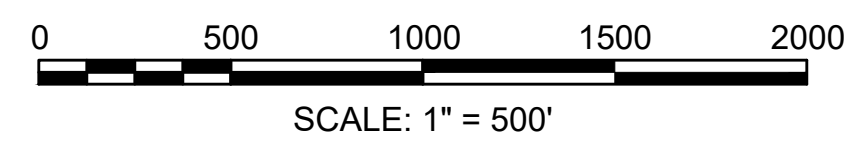
SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS DETAIL ON SHEET 02

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

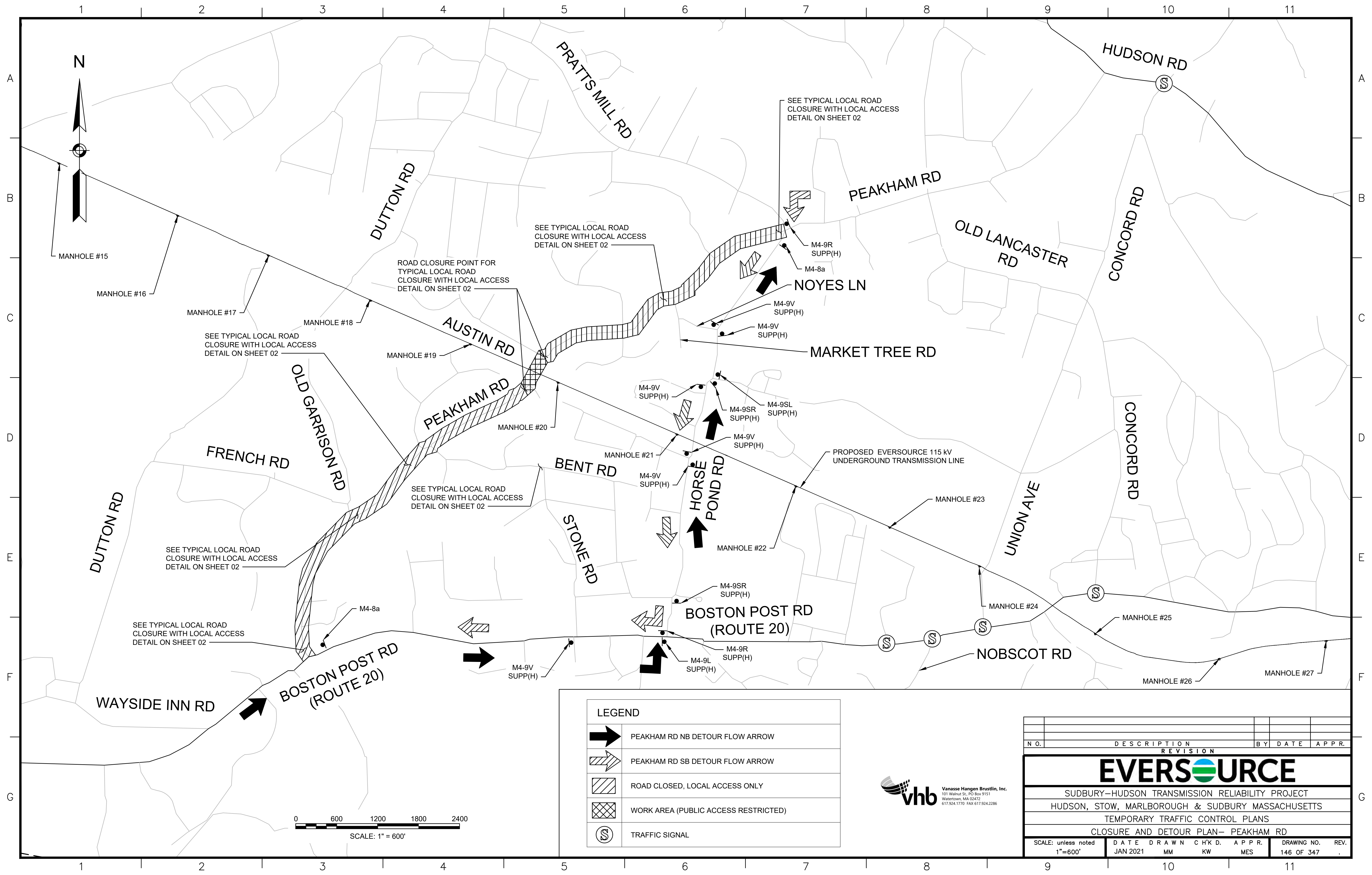
CLOSE DUTTON TO LOCAL ACCESS AT WAYSIDE INN ROAD. SEE TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS ON SHEET 02

LEGEND

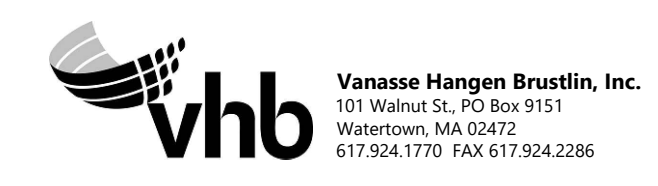
- DUTTON RD SB DETOUR FLOW ARROW
- DUTTON RD NB DETOUR FLOW ARROW
- ROAD CLOSED, LOCAL ACCESS ONLY
- WORK AREA (PUBLIC ACCESS RESTRICTED)



NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
TEMPORARY TRAFFIC CONTROL PLANS						
CLOSURE AND DETOUR PLAN- DUTTON RD						
SCALE: unless noted 1"=500'	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
	JAN 2021	MM	KW	MES	145 OF 347	



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

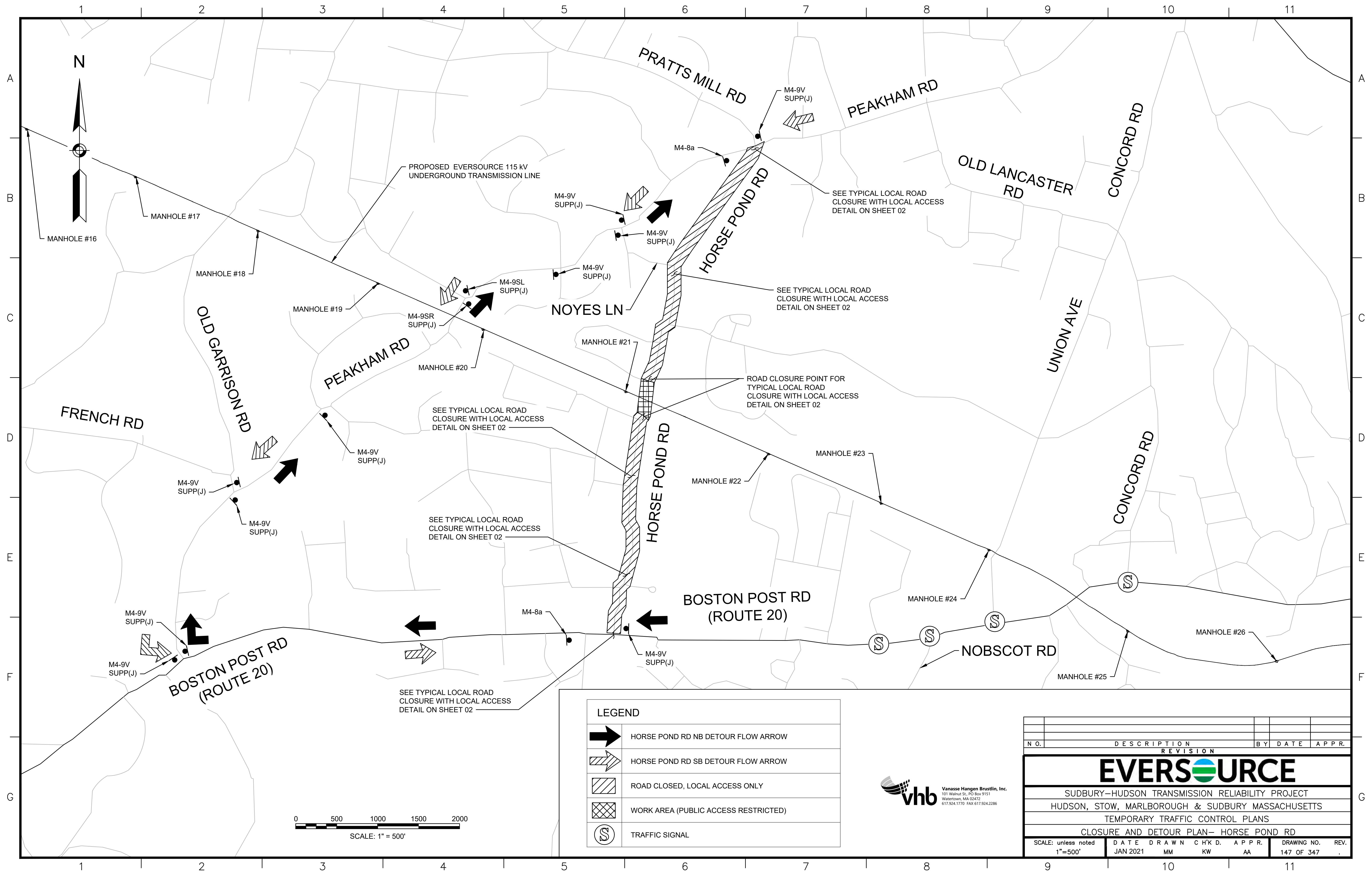


N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

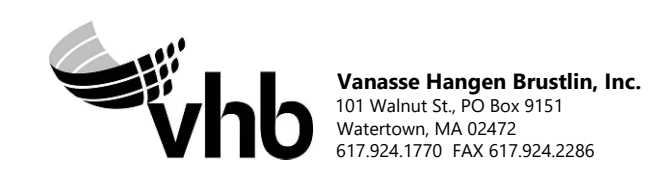
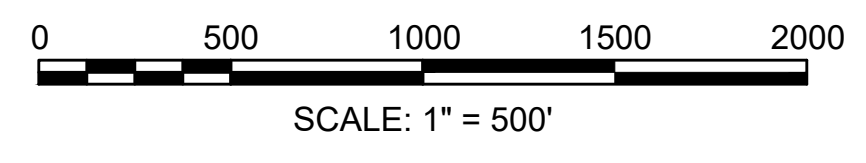
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 CLOSURE AND DETOUR PLAN- PEAKHAM RD

SCALE: unless noted 1"=600'	DATE JAN 2021	DRAWN MM	CHK'D. KW	APPR. MES	DRAWING NO. 146 OF 347	REV.
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LEGEND

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



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 CLOSURE AND DETOUR PLAN- HORSE POND RD

SCALE: unless noted 1"=500'	DATE JAN 2021	DRAWN MM	CHK'D. KW	APPR. AA	DRAWING NO. 147 OF 347	REV.
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TEMPORARY TRAFFIC CONTROL SIGN SUMMARY

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

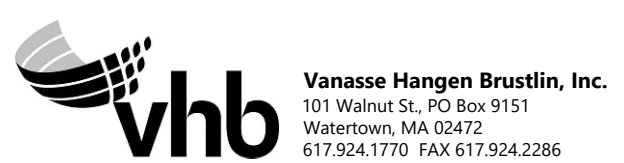
TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

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

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

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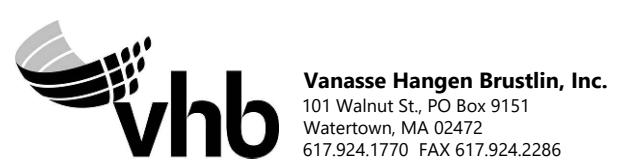


NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
TEMPORARY TRAFFIC CONTROL PLANS						
SIGN SUMMARY						
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MM	CHK'D KW	A.P.P.R. MES	DRAWING NO. 150 OF 347	REV. .

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)

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

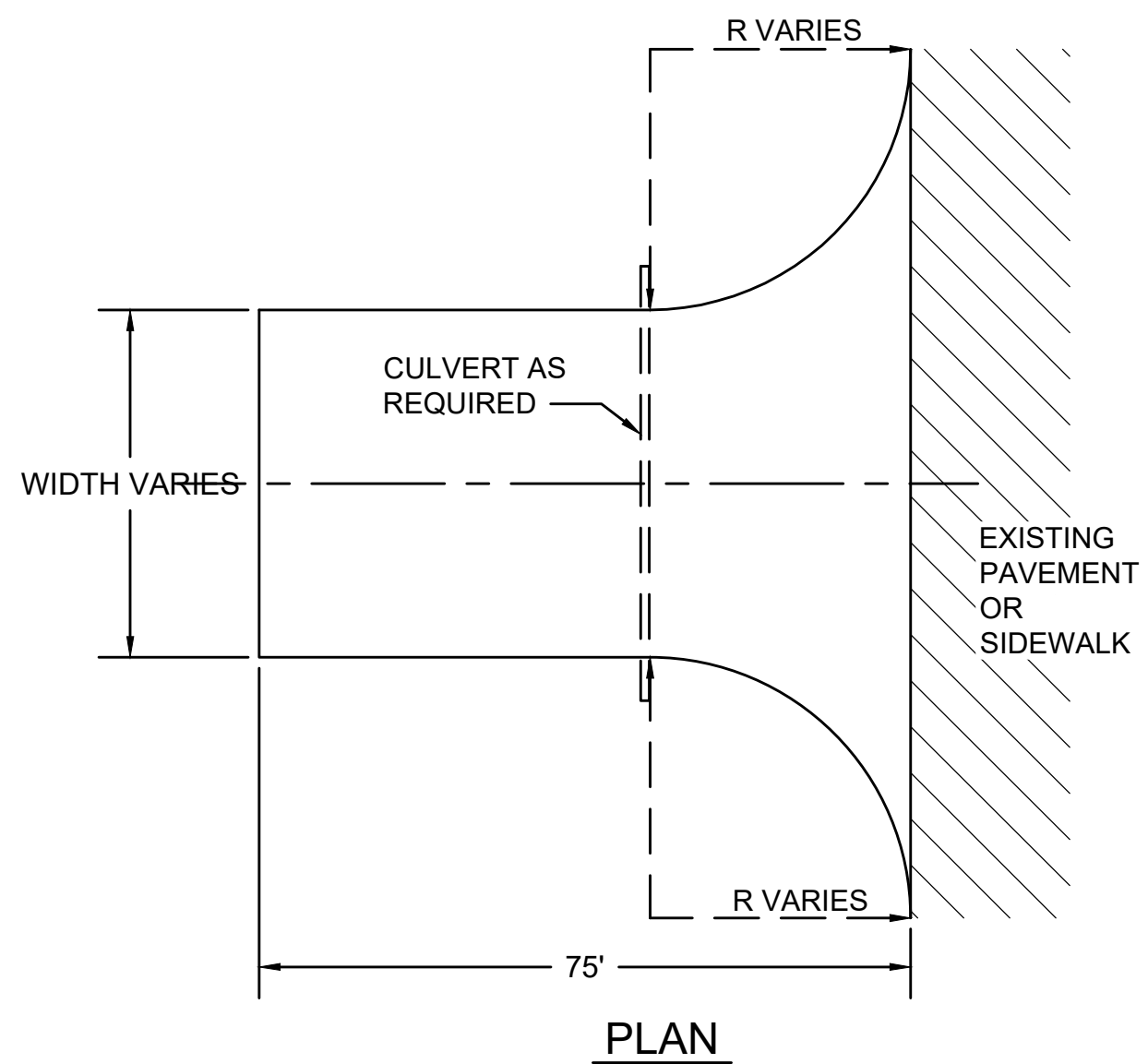
NOTES:
 1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS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



N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
SIGN SUMMARY				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MM	CHK'D. KW	APPR. MES
DRAWING NO. 151 OF 347	REV.			

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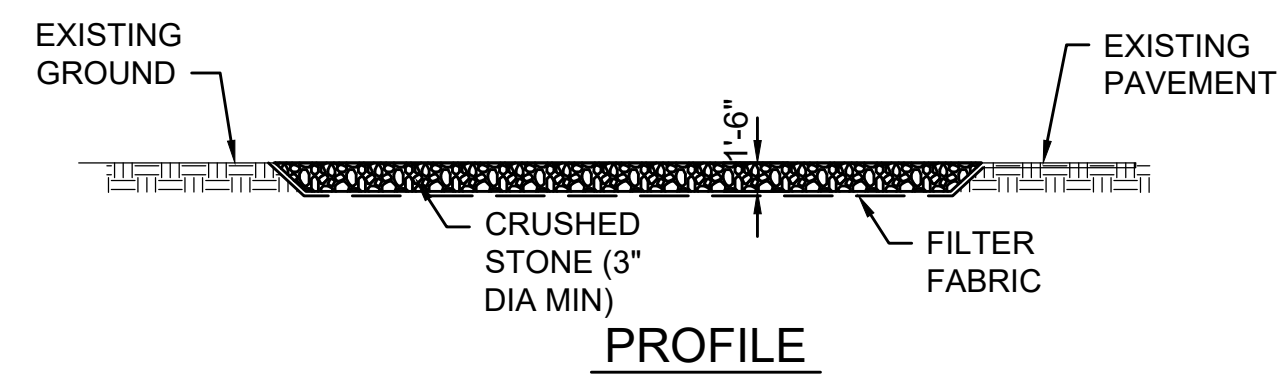
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PLAN

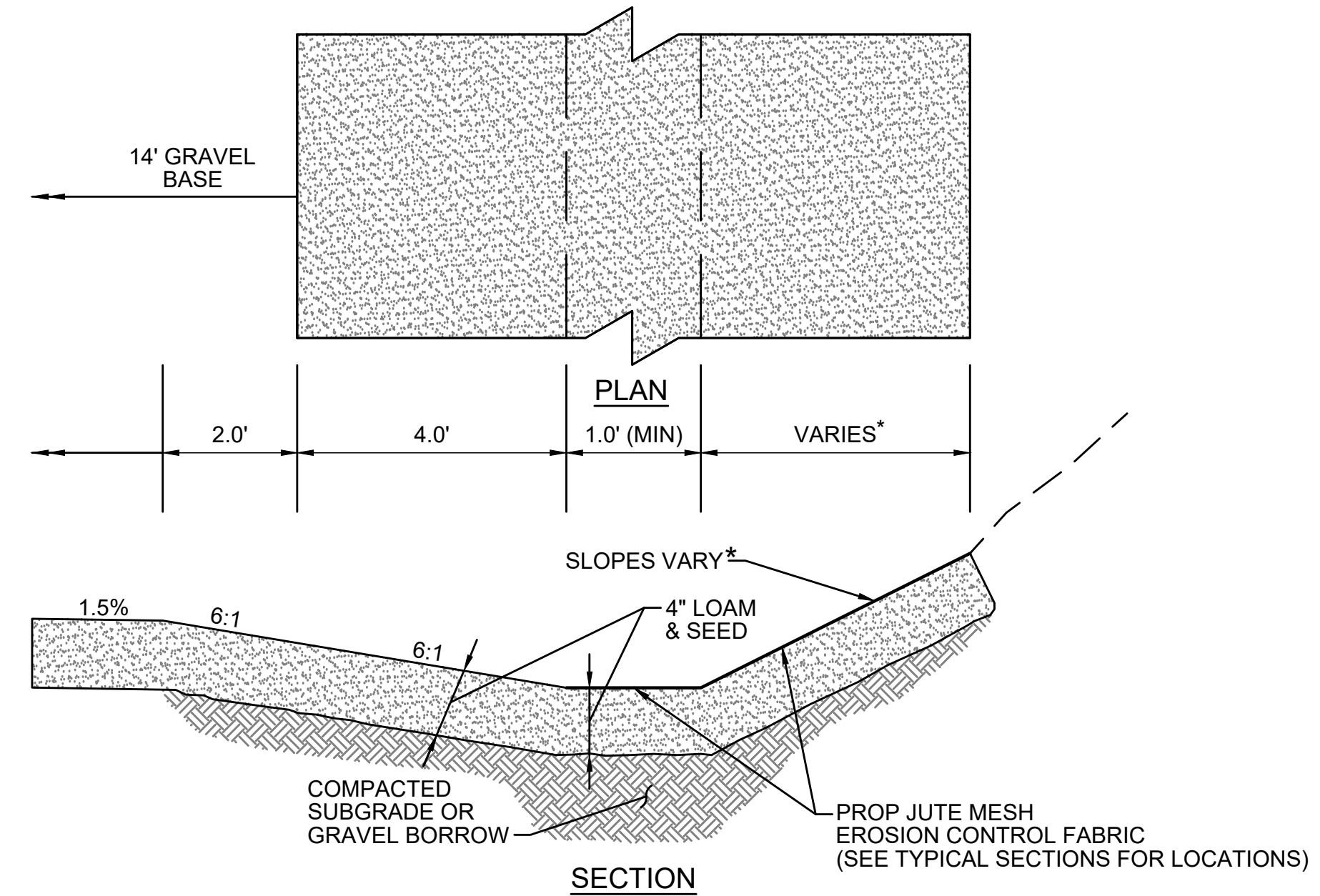
STABILIZED CONSTRUCTION ENTRANCE LOCATIONS
WILKINS STREET
MAIN STREET
PARMENTER ROAD
WHITE POND ROAD
DUTTON ROAD
PEAKHAM ROAD
HORSE POND ROAD
UNION AVENUE
BOSTON POST ROAD
SUDBURY SUBSTATION DRIVEWAY

- NOTES:**
- ALL STABILIZED CONSTRUCTION ENTRANCES SHALL BE WITHIN LIMITS OF GRADING SHOWN ON CONSTRUCTION PLANS.
 - 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.
 - CONTRACTOR SHALL SWEEP PAVED AREAS ADJACENT TO THE SITE ON A DAILY BASIS.
 - ALL PEDESTRIAN CROSSINGS MUST BE MAINTAINED AT ALL TIMES.
 - CONTRACTOR TO REPLACE CRUSHED STONE WITH CLEAN STONE AS REQUIRED.



PROFILE

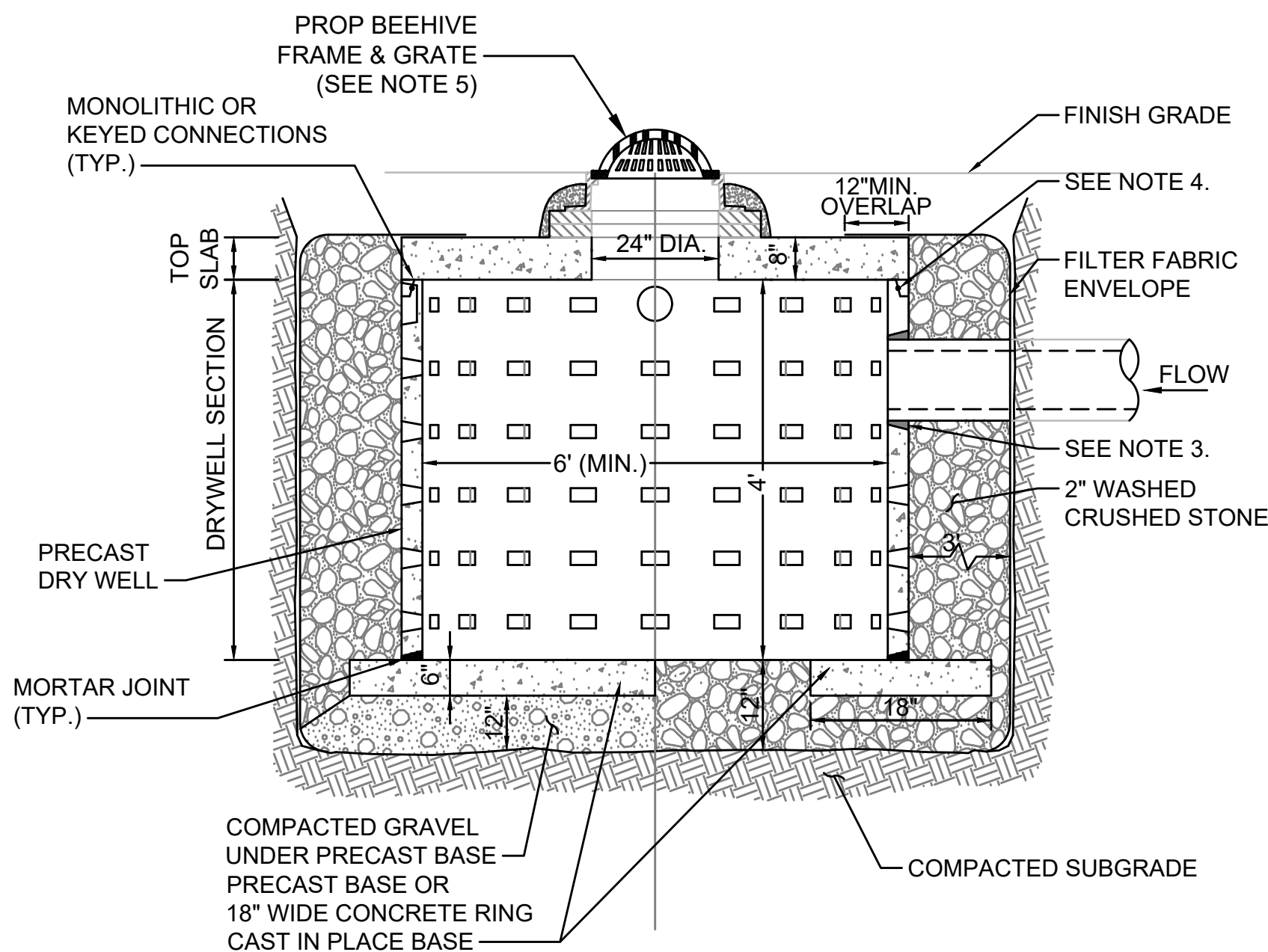
STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.



PLAN

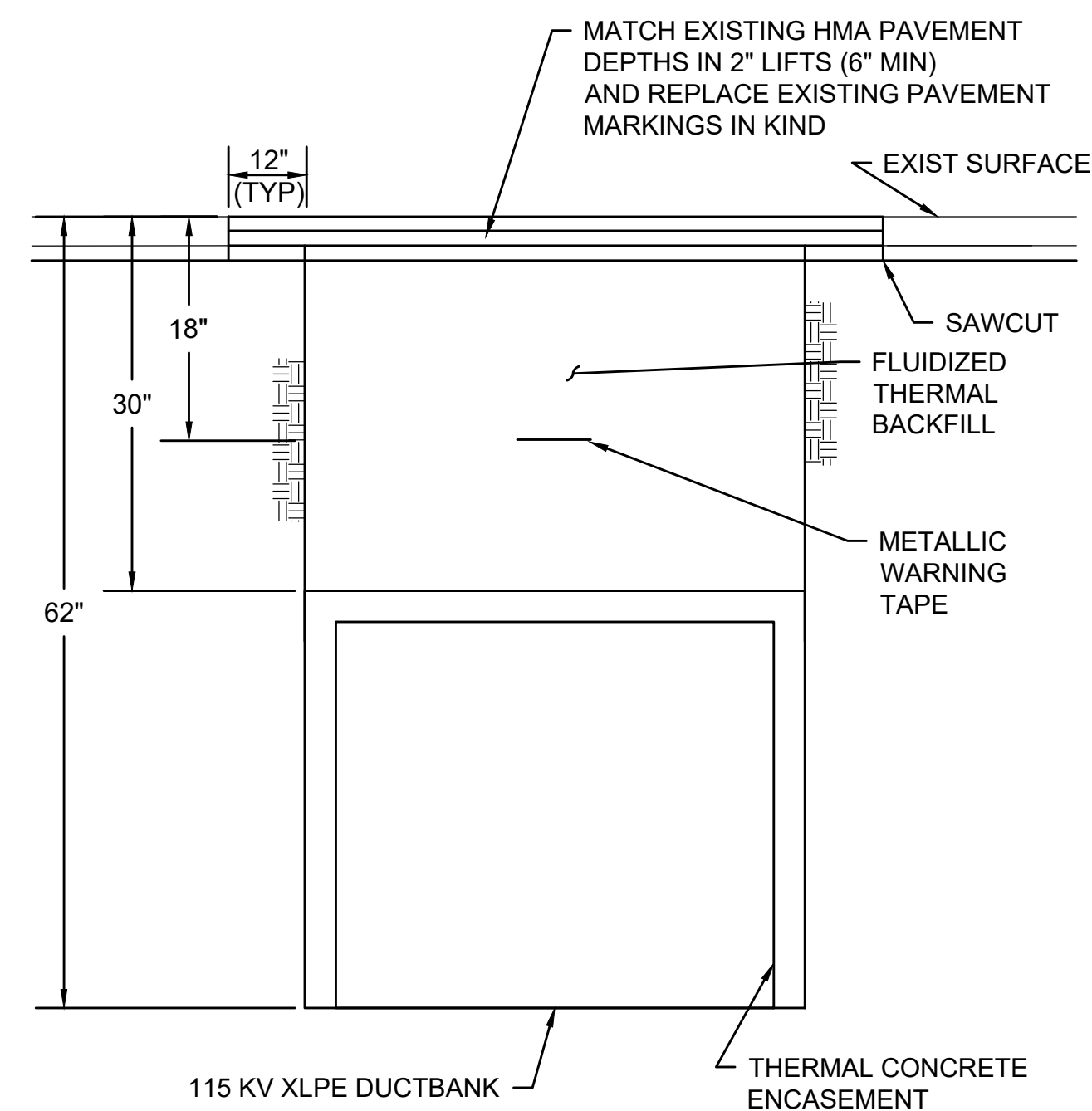
SECTION

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

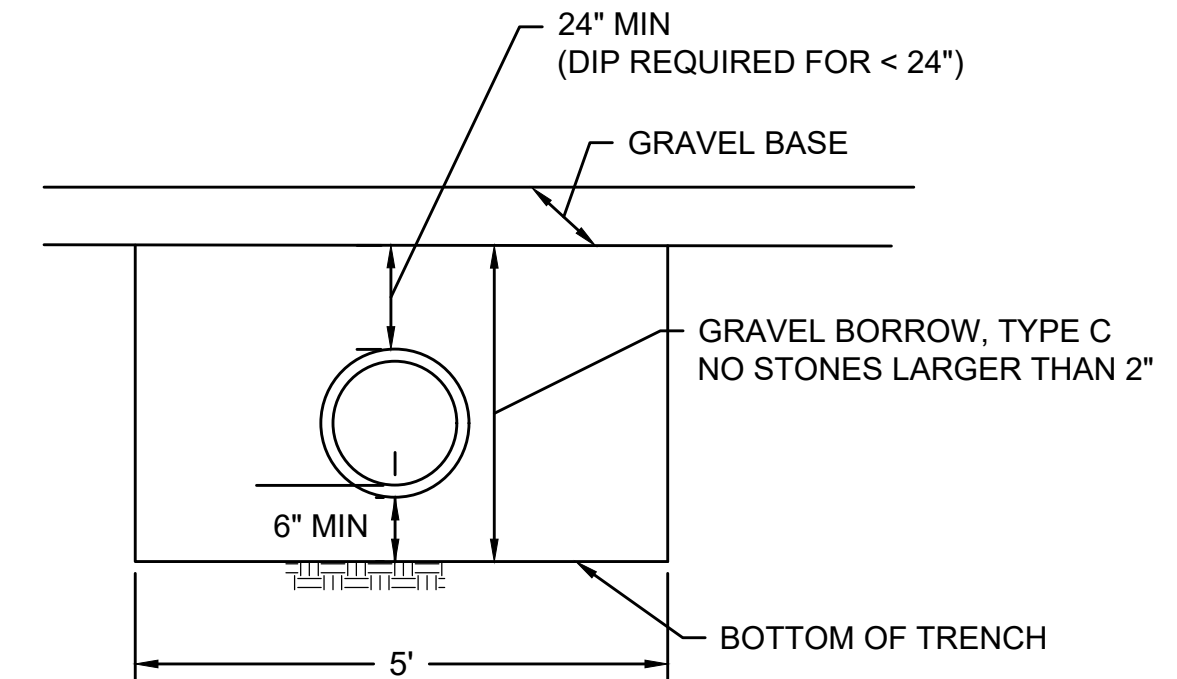


- NOTES**
- BASE SECTION SHALL BE PRECAST CONCRETE WITH MORTARED JOINTS OR CAST IN PLACE.
 - ALL COMPONENTS SHALL BE DESIGNED FOR HS-20 LOADING.
 - PROVIDE PRECAST OPENINGS FOR PIPES WITH 2\"/>

LEACHING CATCH BASIN
SCALE: N.T.S.



DUCTBANK CROSSING ROADWAY
SCALE: N.T.S.



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

TRENCH DETAIL
SCALE: N.T.S.

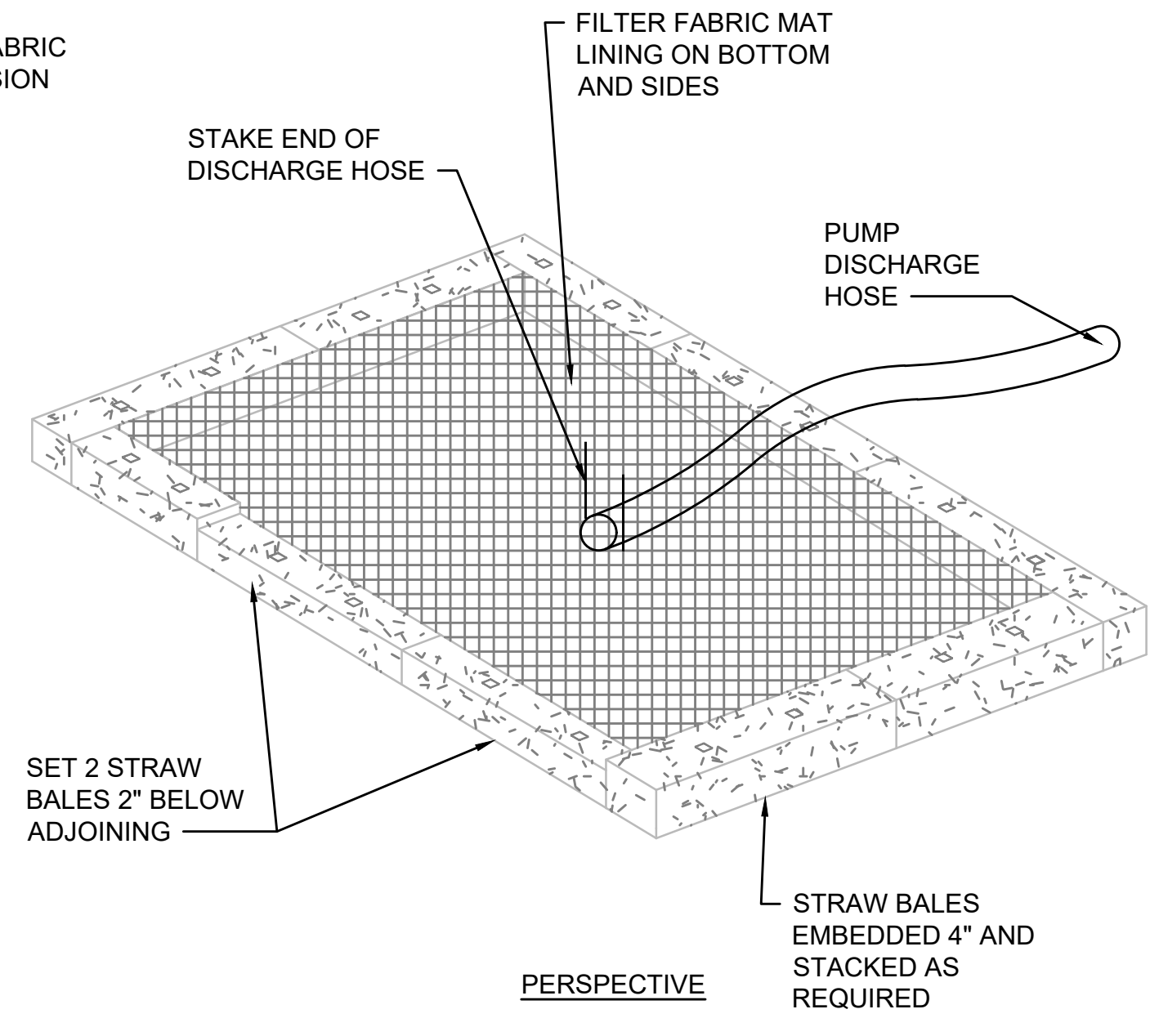
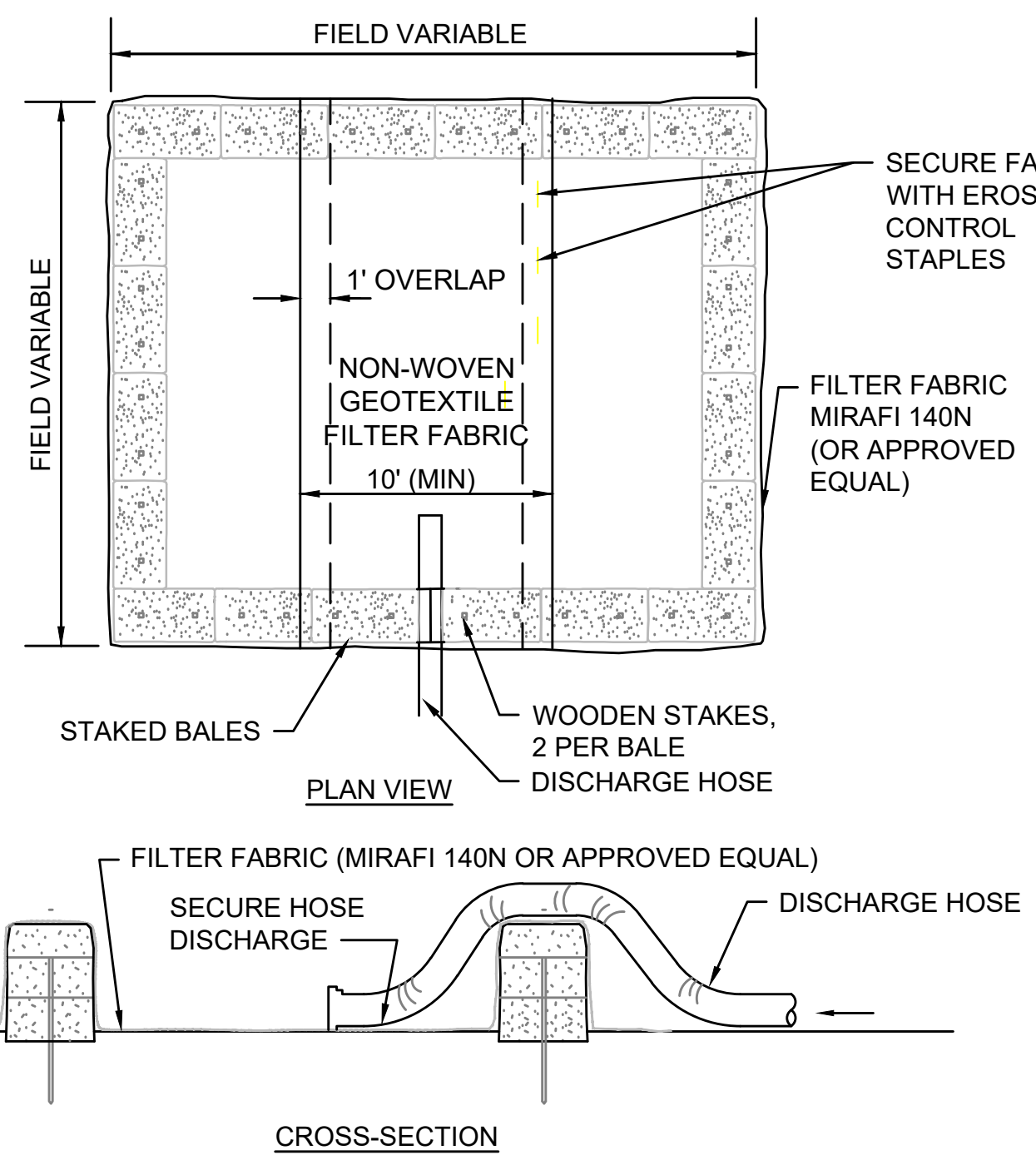
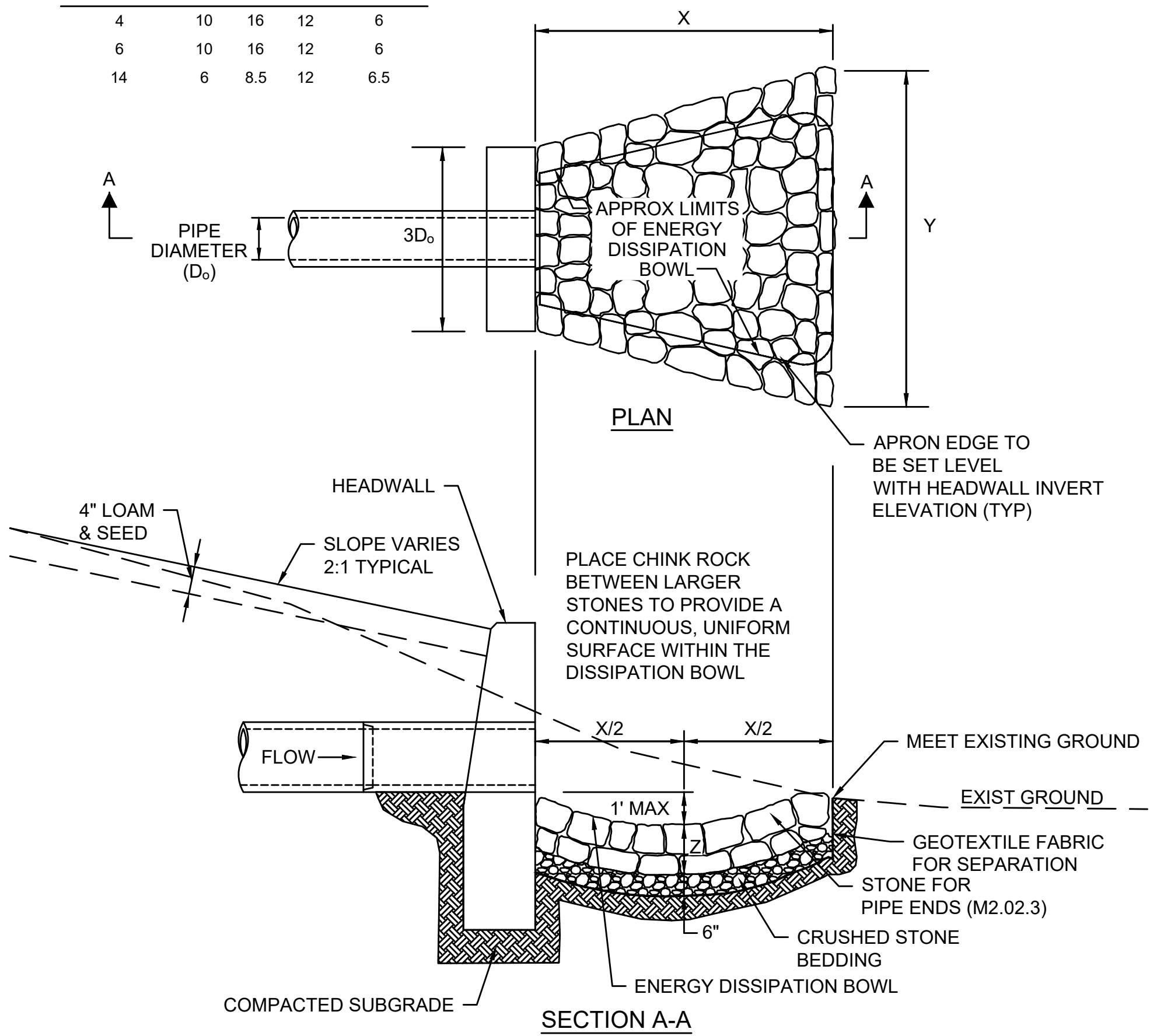
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 152 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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RIPRAP STONE

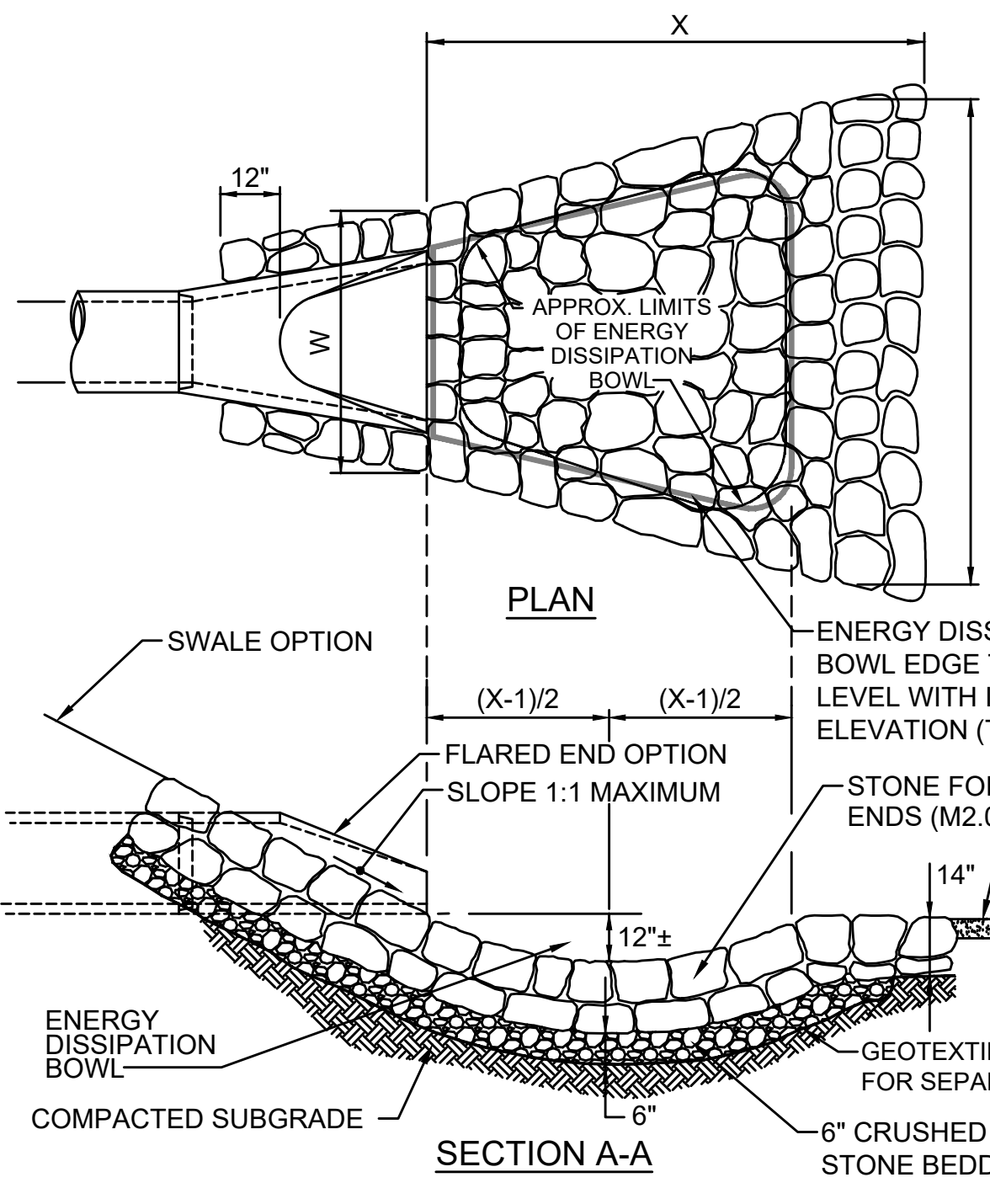
STRUCTURE NUMBER	X (FT)	Y (FT)	Z (IN)	STONE DIA. (D ₅₀) (IN)
4	10	16	12	6
6	10	16	12	6
14	6	8.5	12	6.5



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

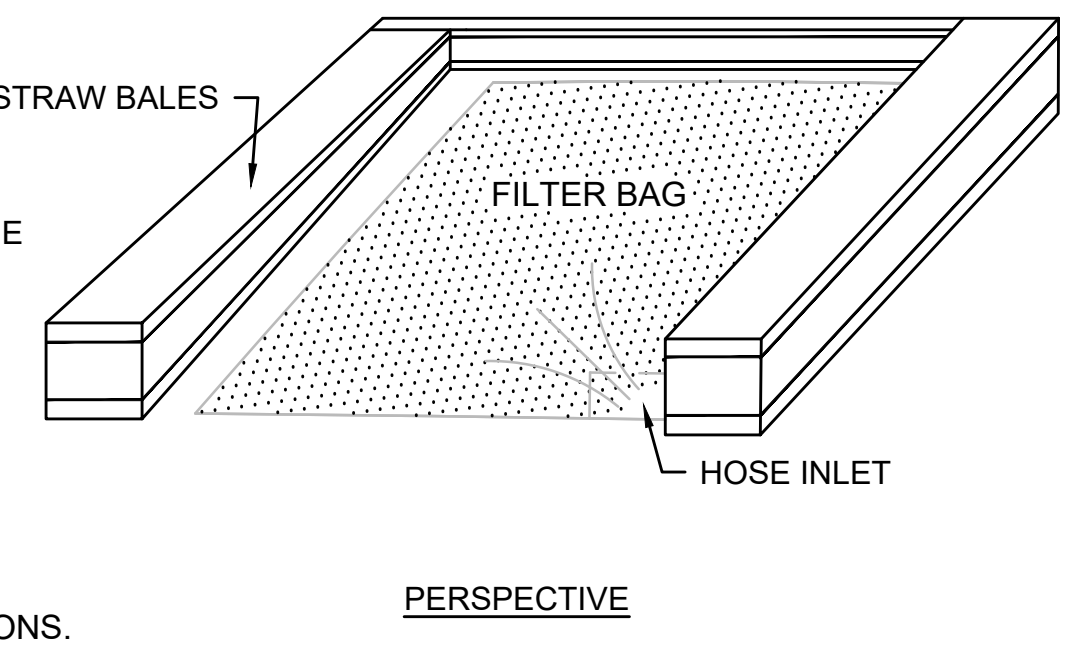
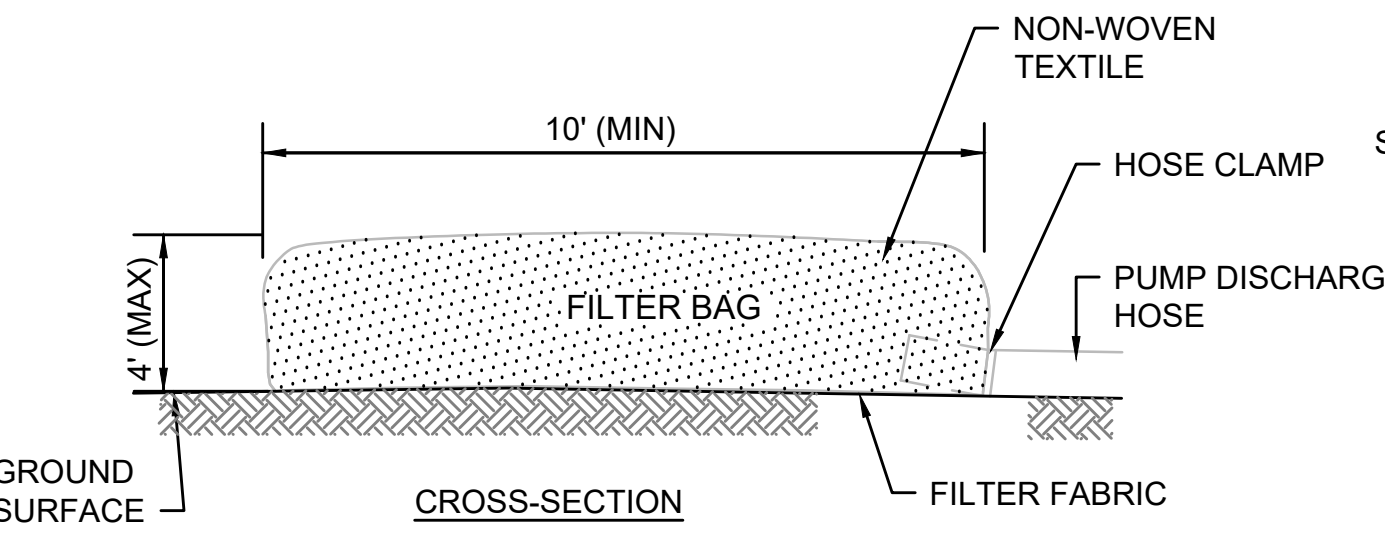
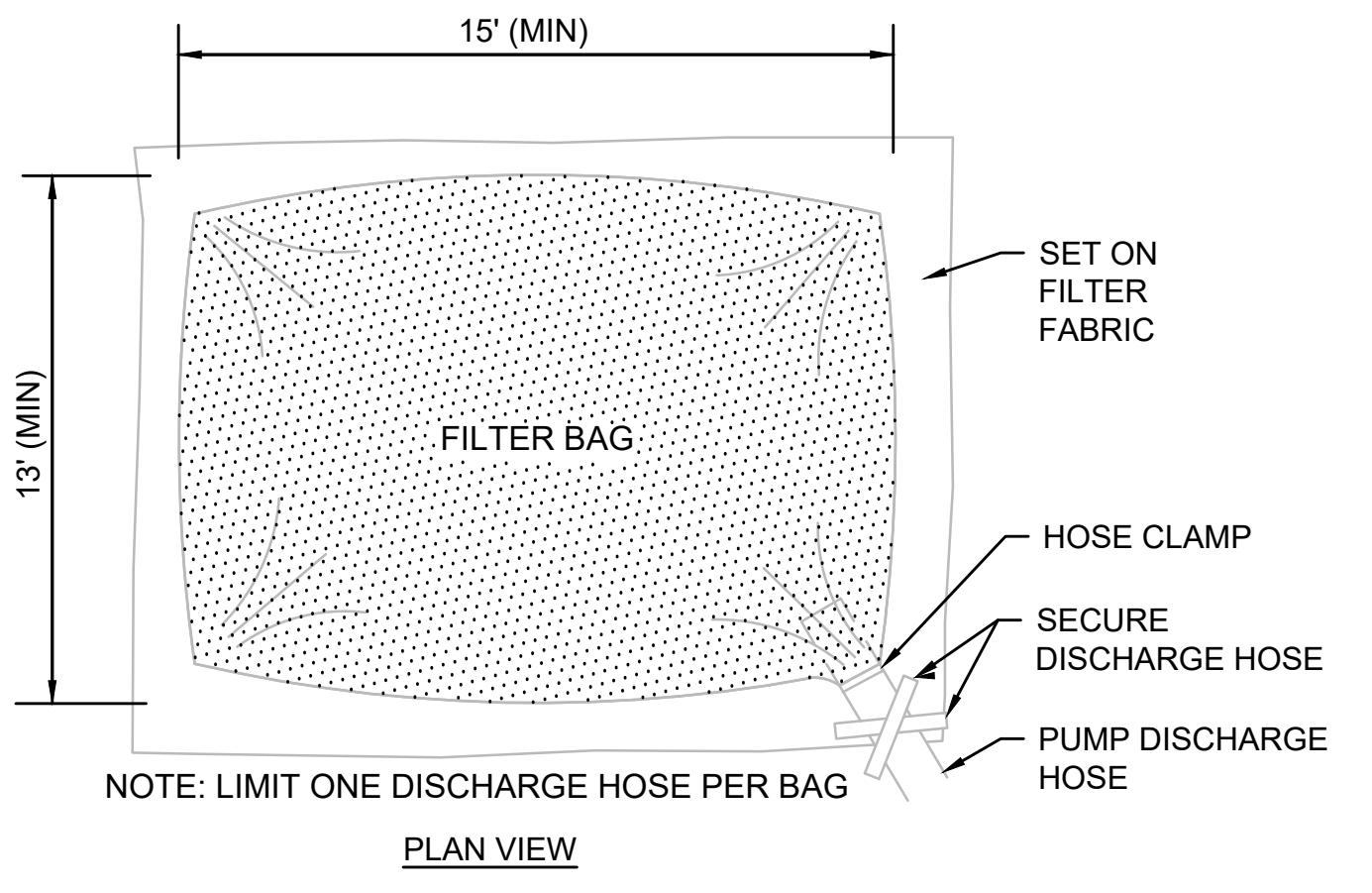
DEWATERING STRAW BALE BASIN
SCALE: N.T.S.

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



RIPRAP STONE

DESIGN OPTION	W (FT)	X (FT)	Y (FT)	STONE DIA. (D ₅₀) (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.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 153 OF 347				
SCALE: unless noted N.T.S.	DATE: JAN 2021	DRAWN: MS	CHK'D: SK	APPR.: MES
DRAWING NO.	REV.			

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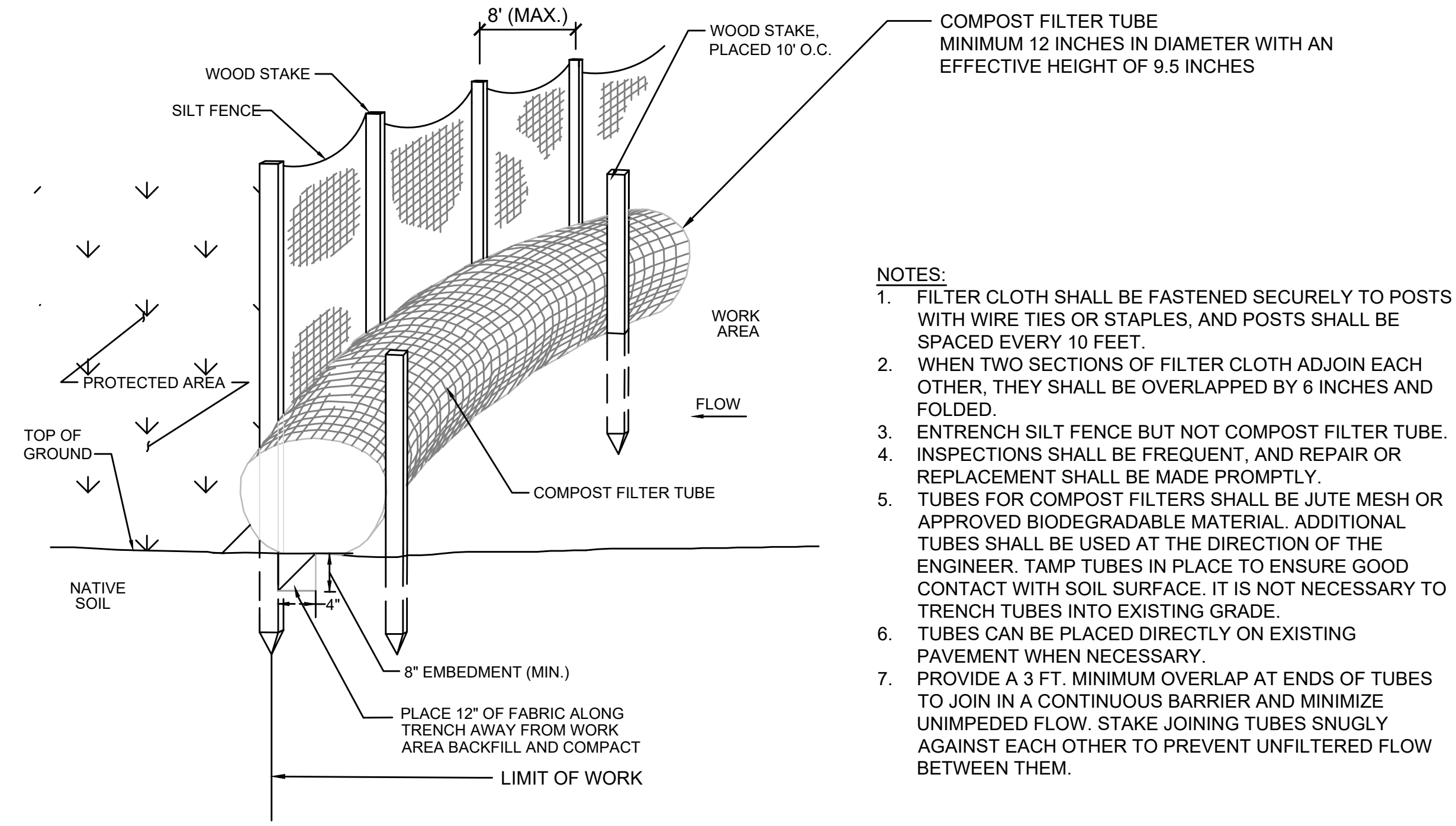
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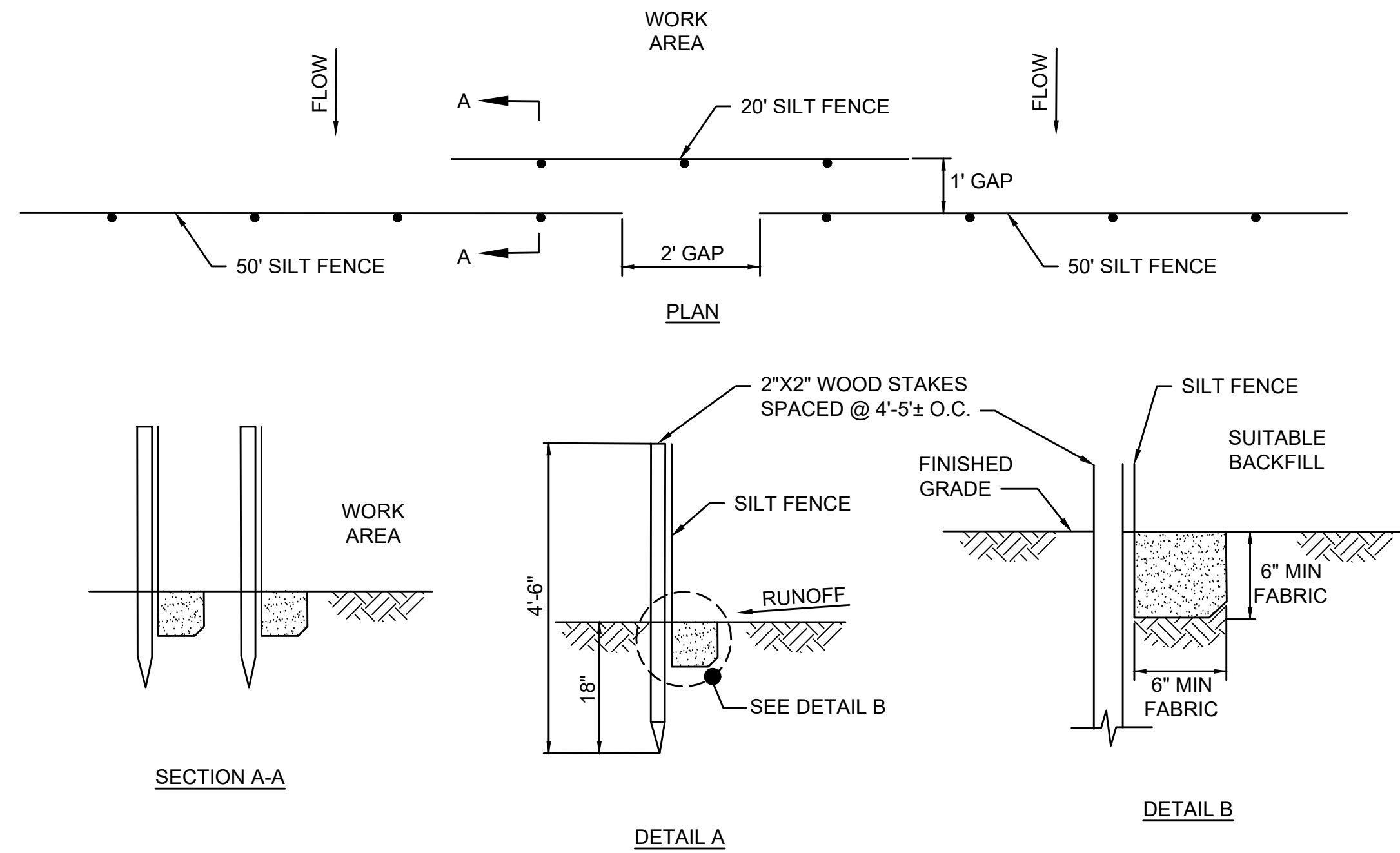
G



- NOTES:**
1. FILTER CLOTH SHALL BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES, AND POSTS SHALL BE SPACED EVERY 10 FEET.
 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
 3. ENTRENCH SILT FENCE BUT NOT COMPOST FILTER TUBE. INSPECTIONS SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY.
 4. TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER. TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO TRENCH TUBES INTO EXISTING GRADE.
 5. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
 6. PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

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

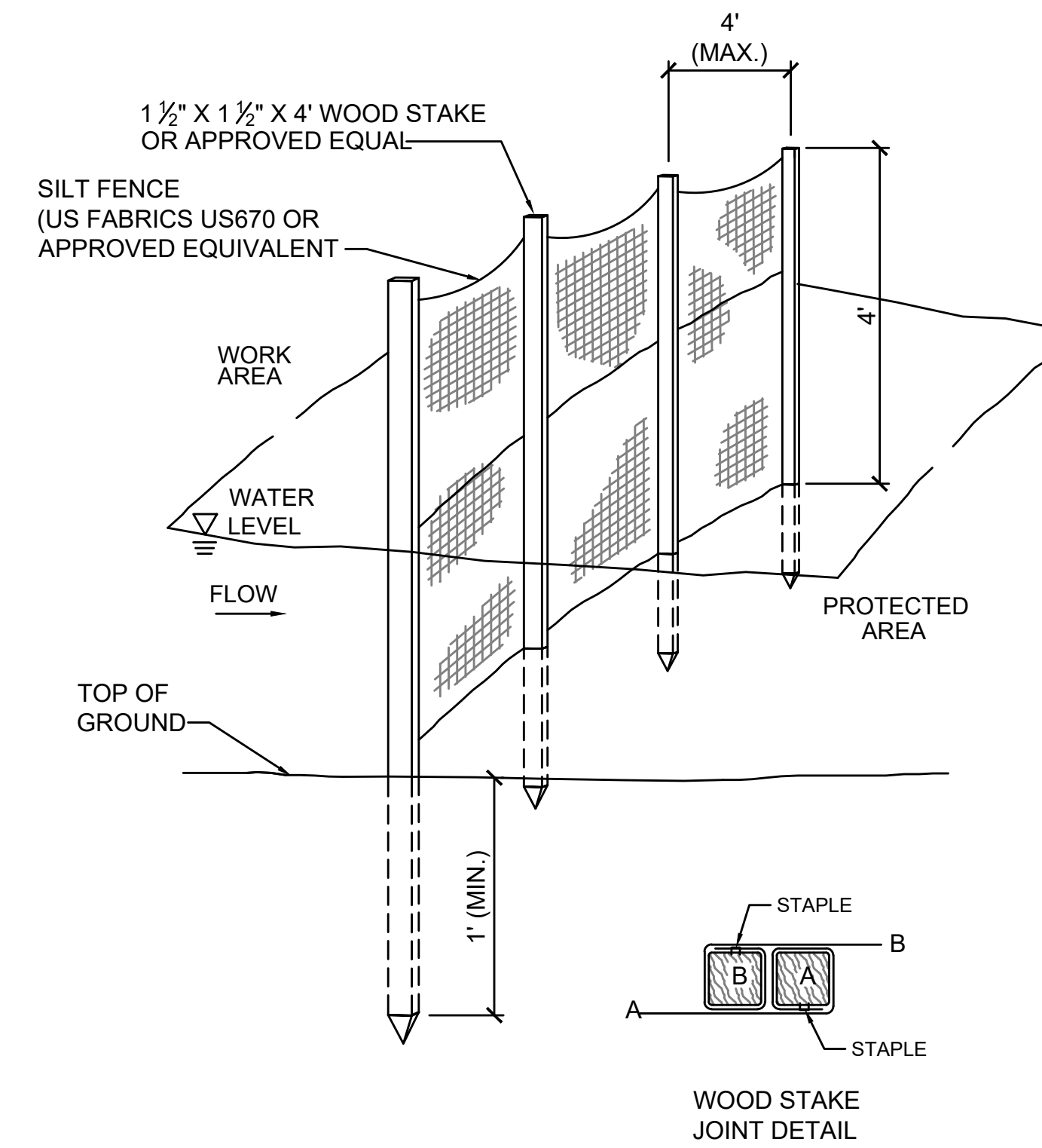
SCALE: N.T.S.



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

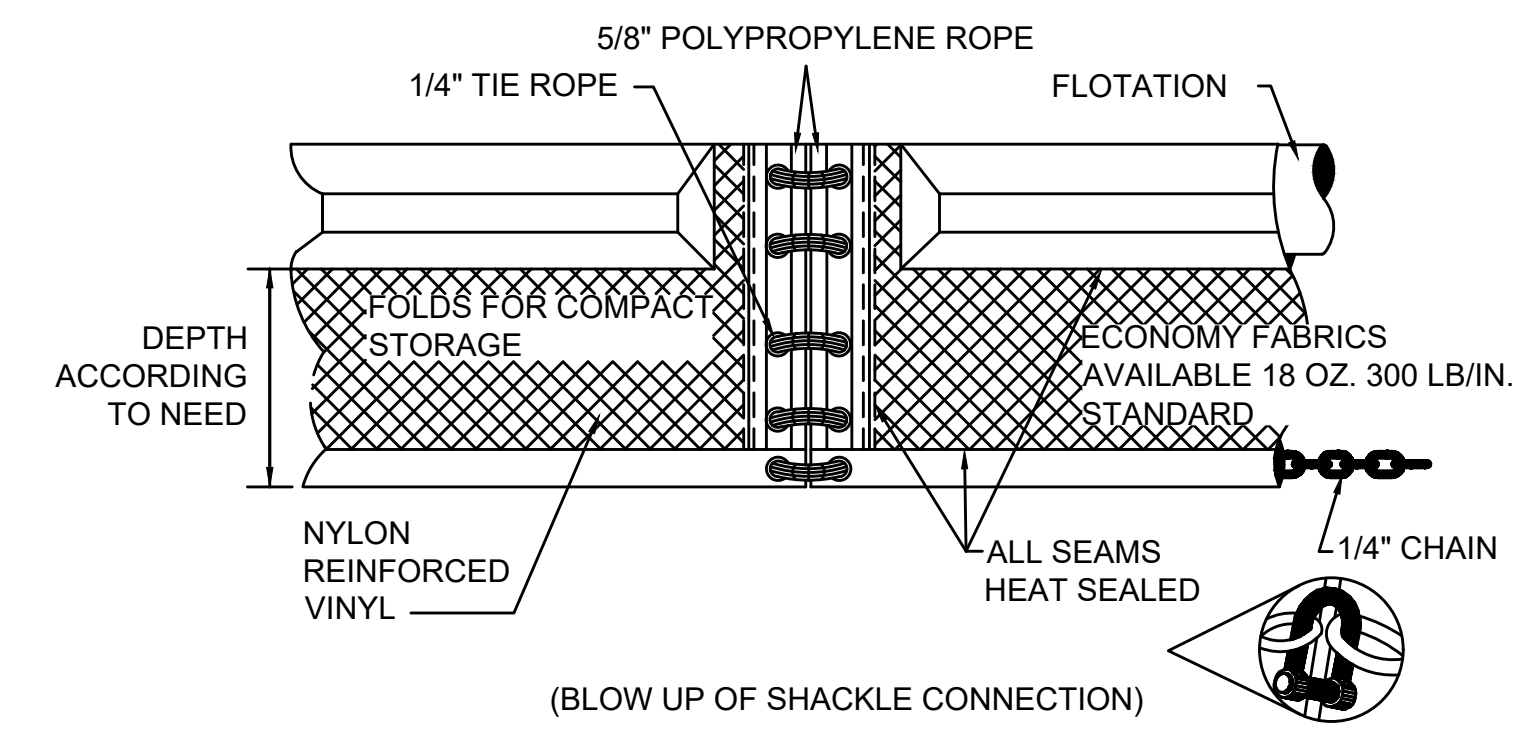
SYNCOPATED SILT FENCE DETAIL - TYPE B EROSION CONTROL BARRIER

SCALE: N.T.S.



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

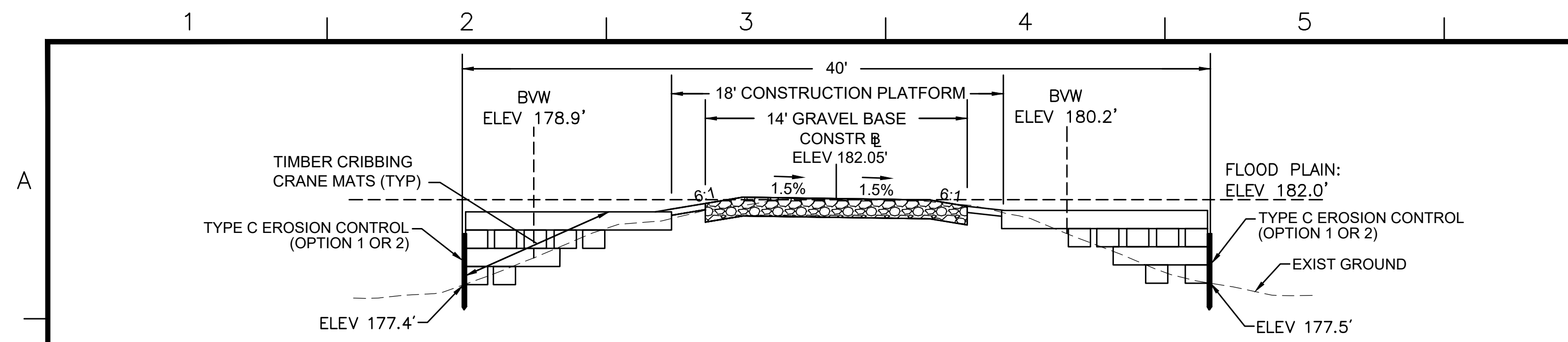
SCALE: N.T.S.



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

SCALE: N.T.S.

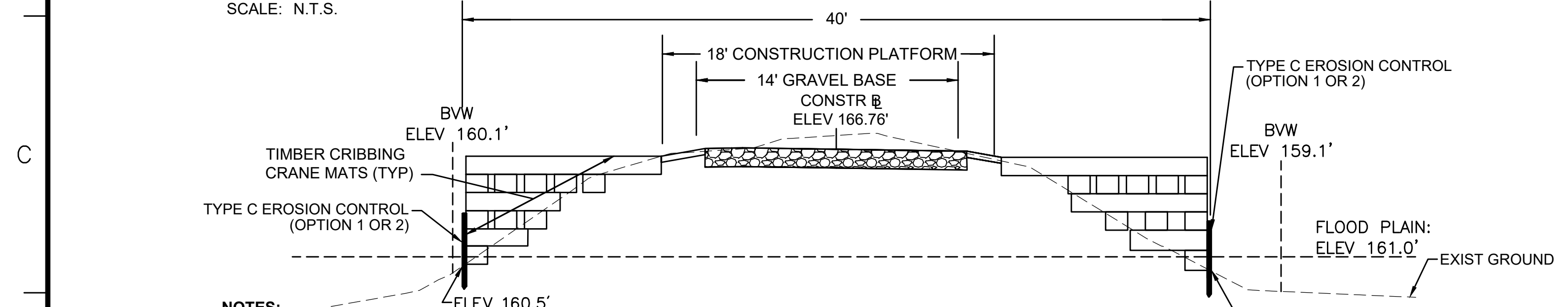
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 154 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



- 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.

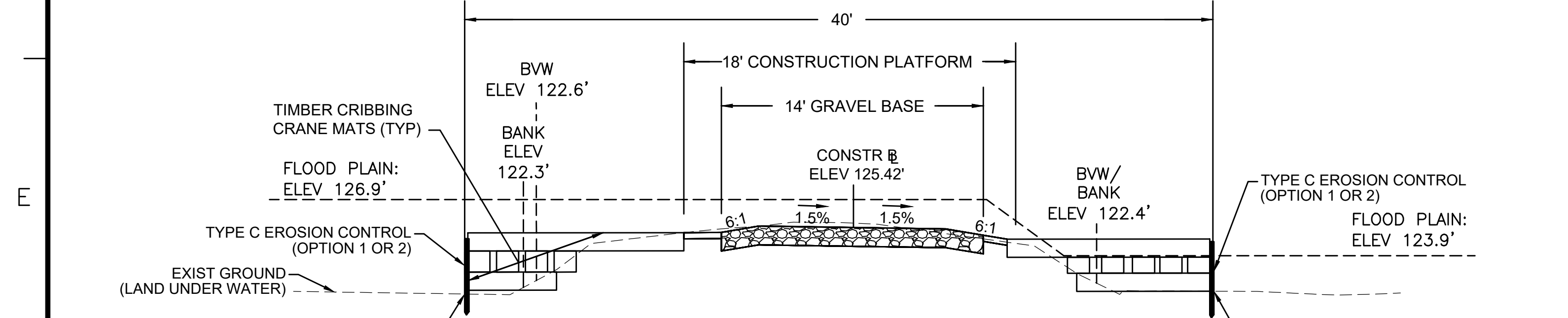
TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 130

SCALE: N.T.S.



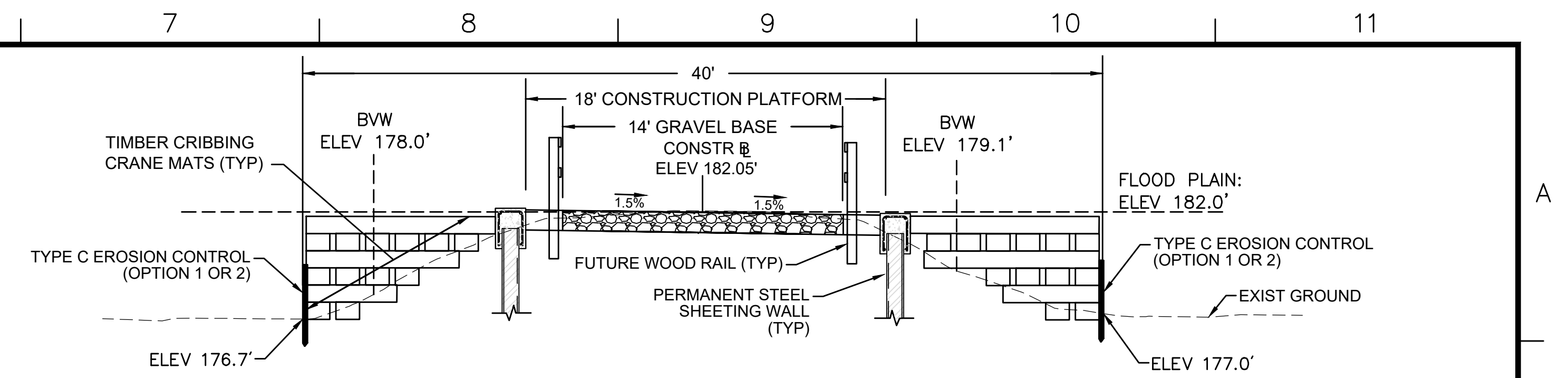
- NOTES:**
1. ACTUAL CONFIGURATION OF CRANE MATS TO BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR'S TEMPORARY WORK LIMIT SHALL NOT EXTEND MORE THAN 20 FEET FROM THE CENTERLINE OF CONSTRUCTION TO THE OUTERMOST LIMIT ON EACH SIDE WHERE CRANE MATTING IS PERMITTED.
 2. AREA DISTURBED BY CRANE MATS OUTSIDE 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.

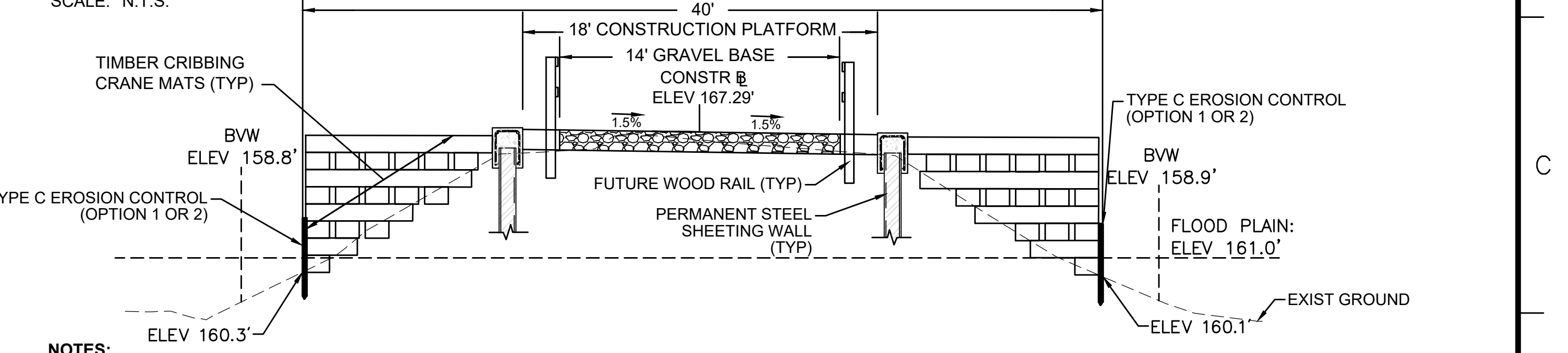
TYPICAL CRANE MAT CROSS-SECTION WITHOUT STEEL SHEETING - BRIDGE 127



- 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

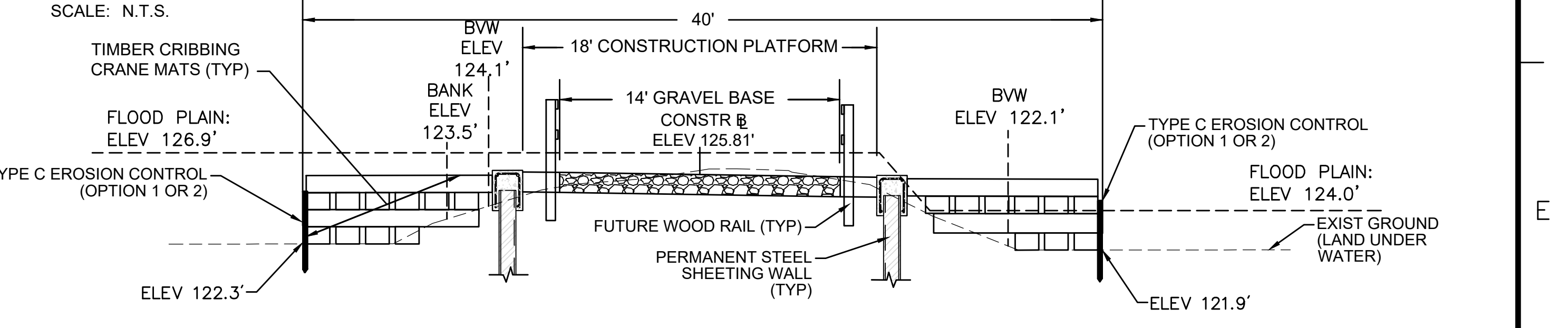
SCALE: N.T.S.



- 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

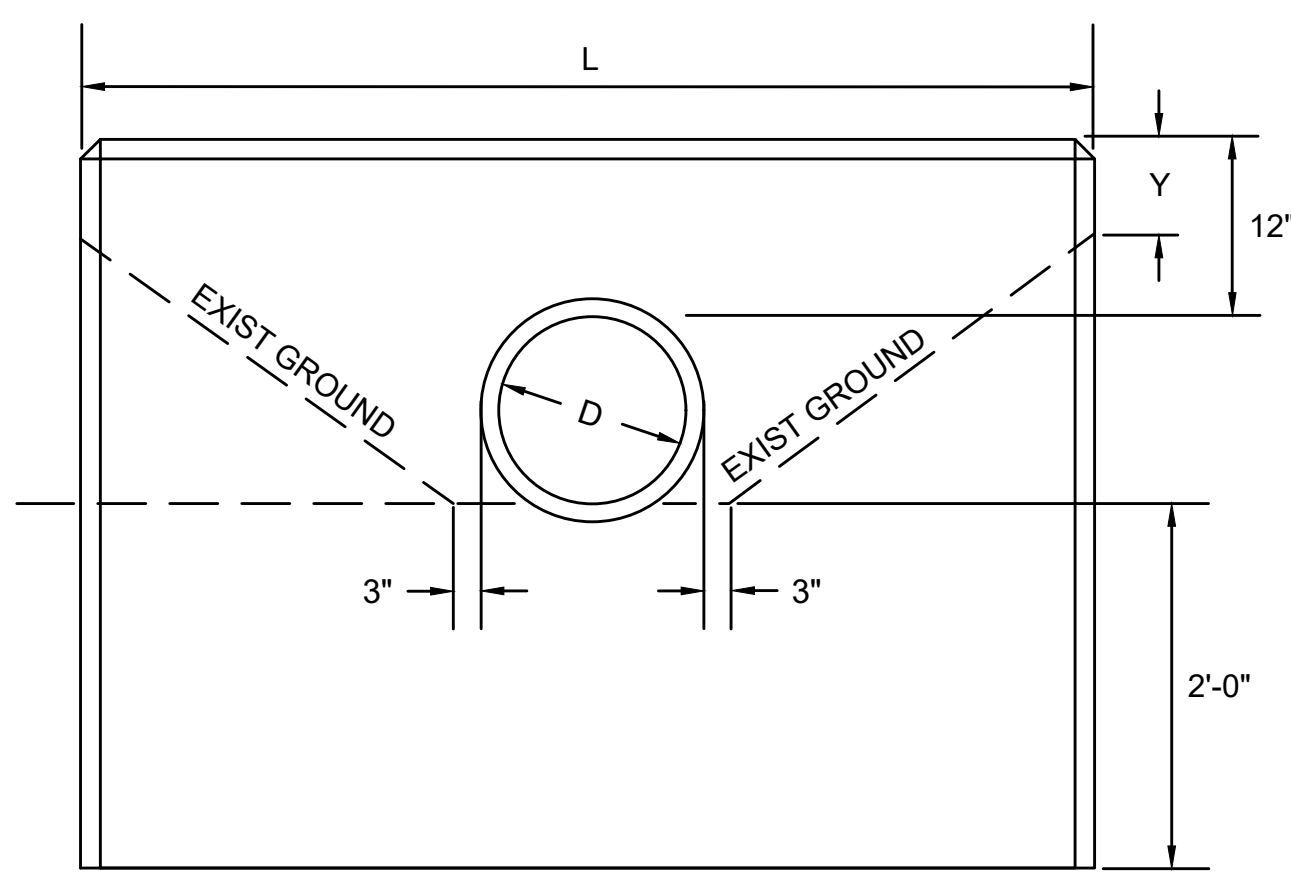
SCALE: N.T.S.

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CONSTRUCTION DETAILS				
PLAN 155 OF 347				
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

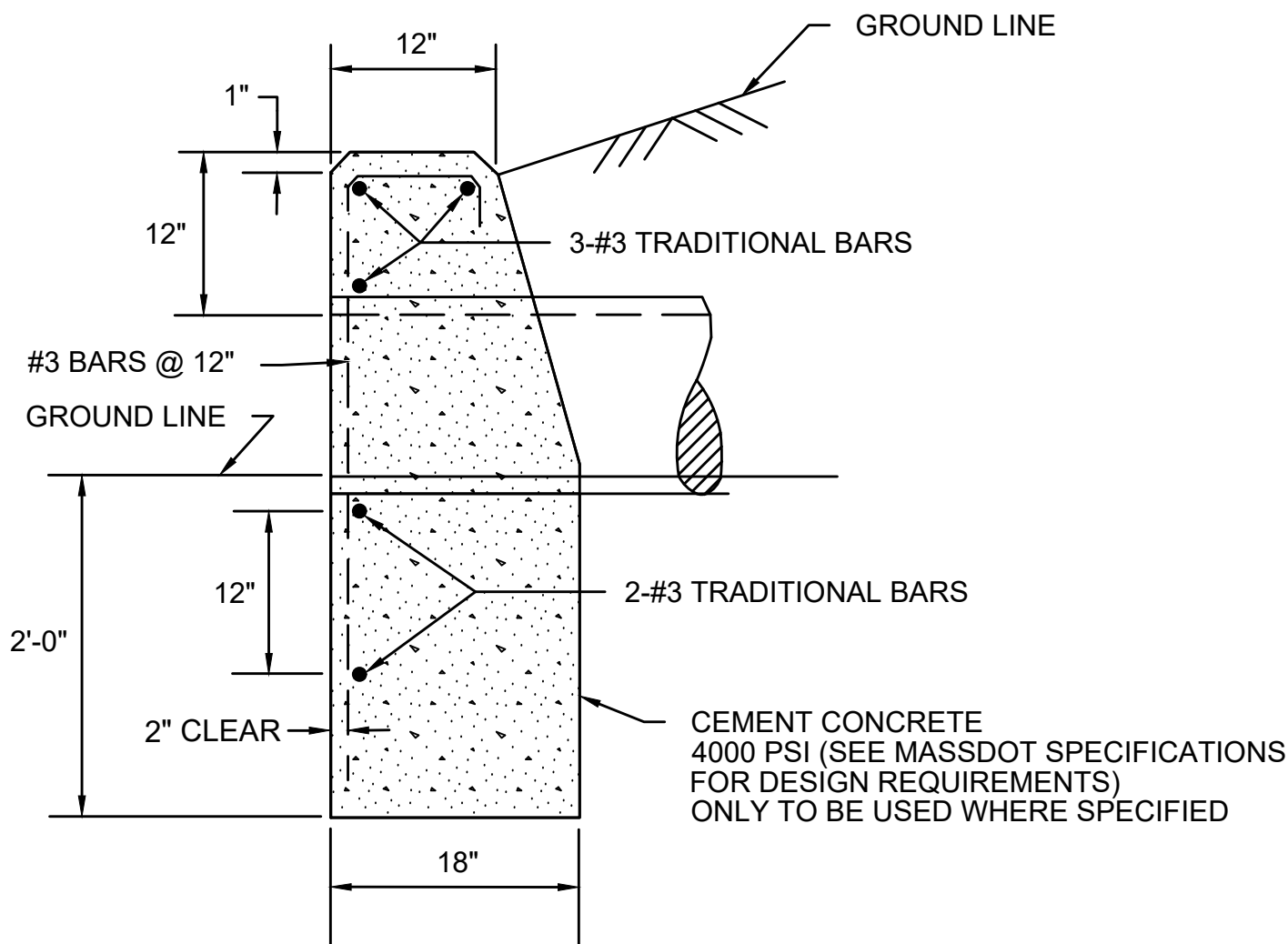
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FRONT ELEVATION

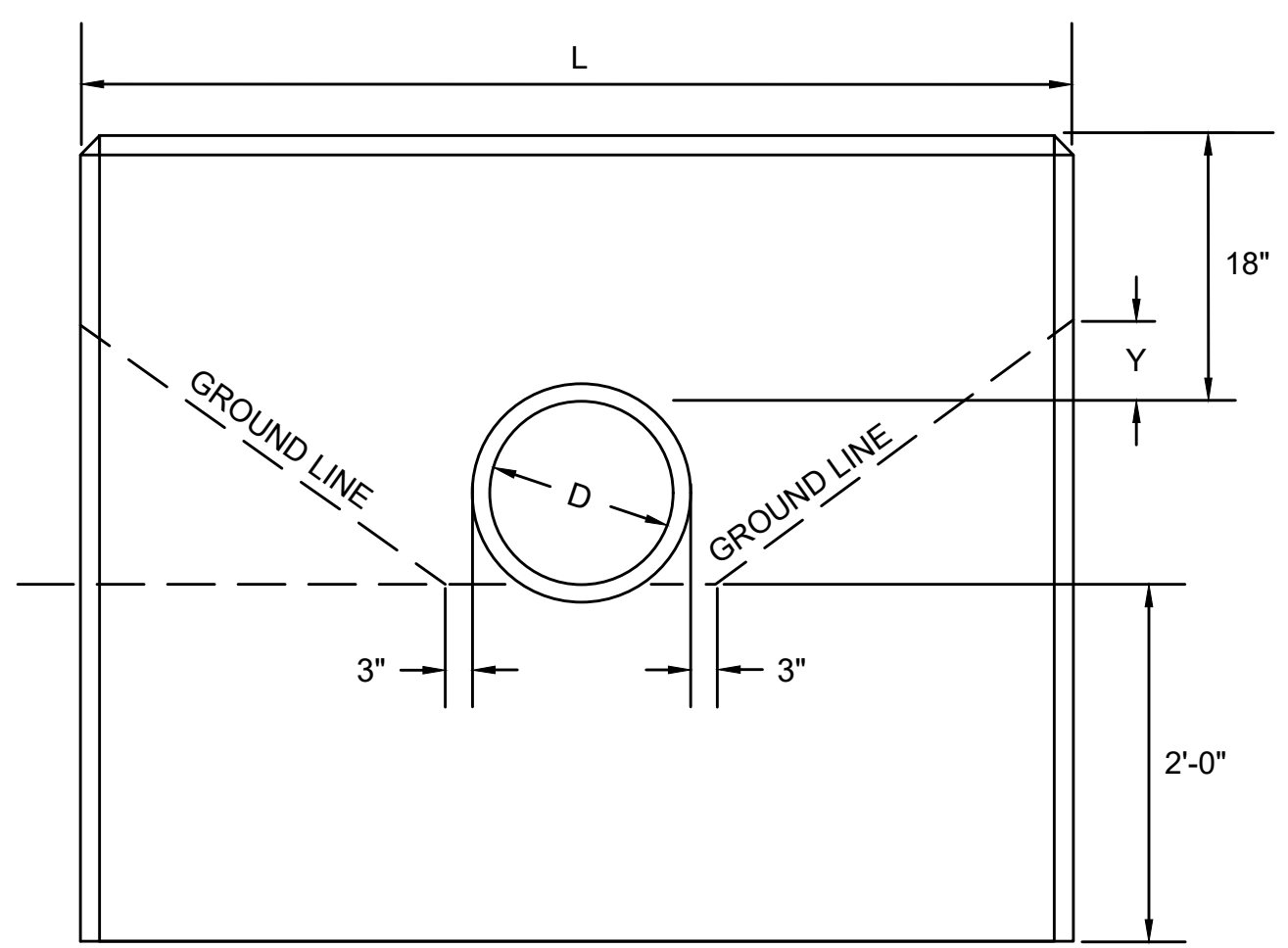


END ELEVATION

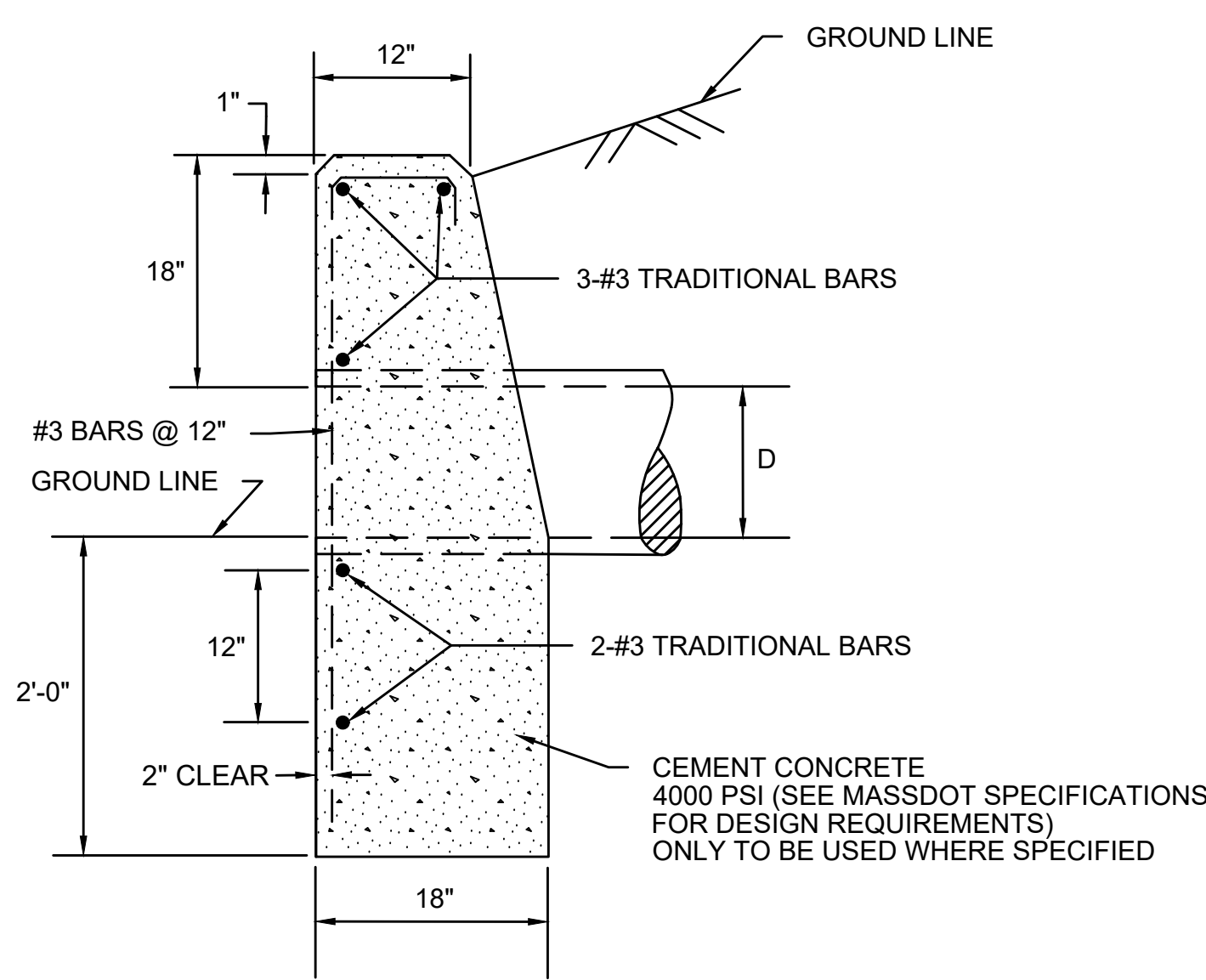
- NOTES:
- THIS DETAIL SHALL BE APPLIED TO THE PROPOSED 18" DRAINAGE PIPE AT STATION 738+77.
 - SEE MASSDOT CONST STD 206.4.1 FOR THE VALUES OF L AND Y FOR VARIOUS PIPE DIAMETERS.

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

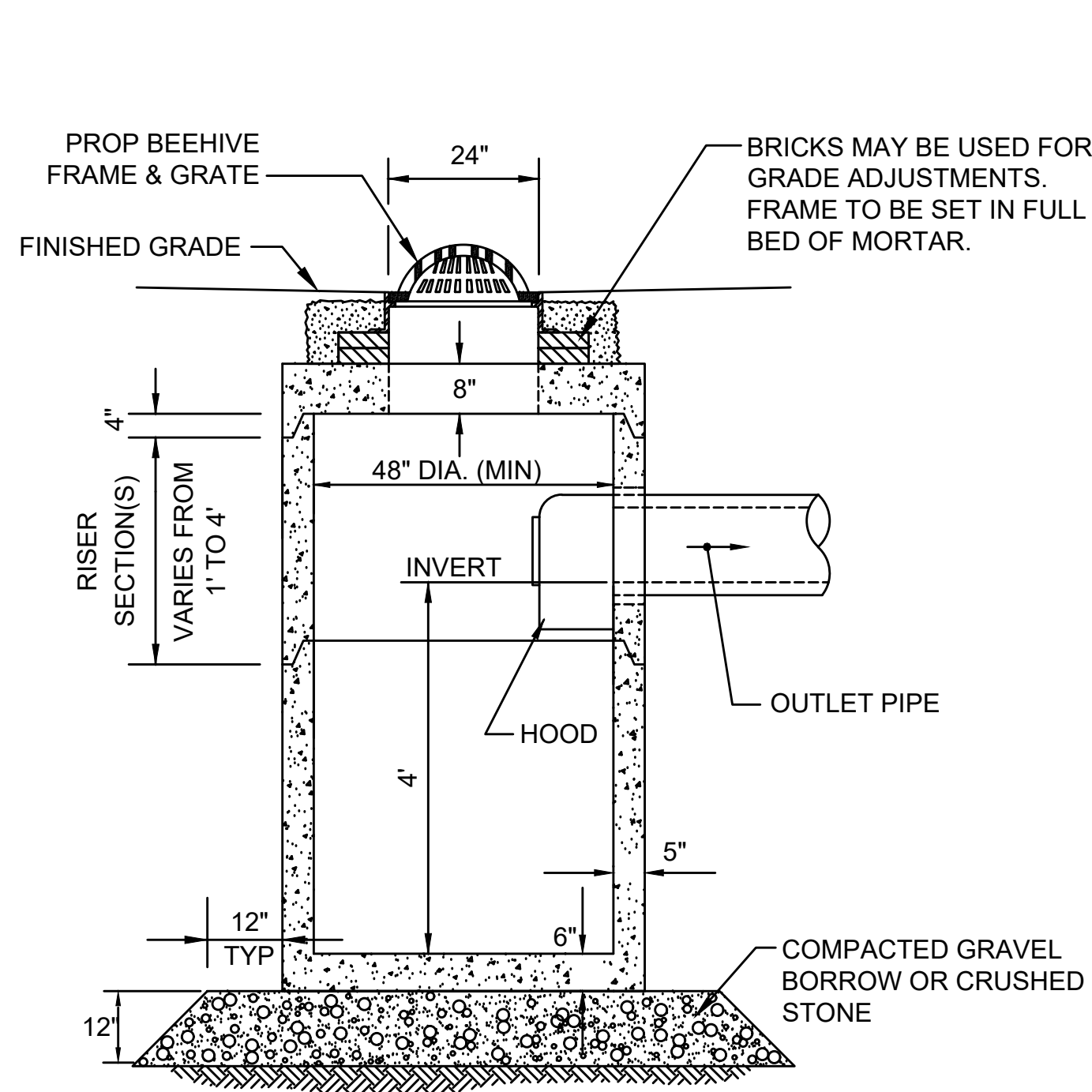
SCALE: N.T.S.

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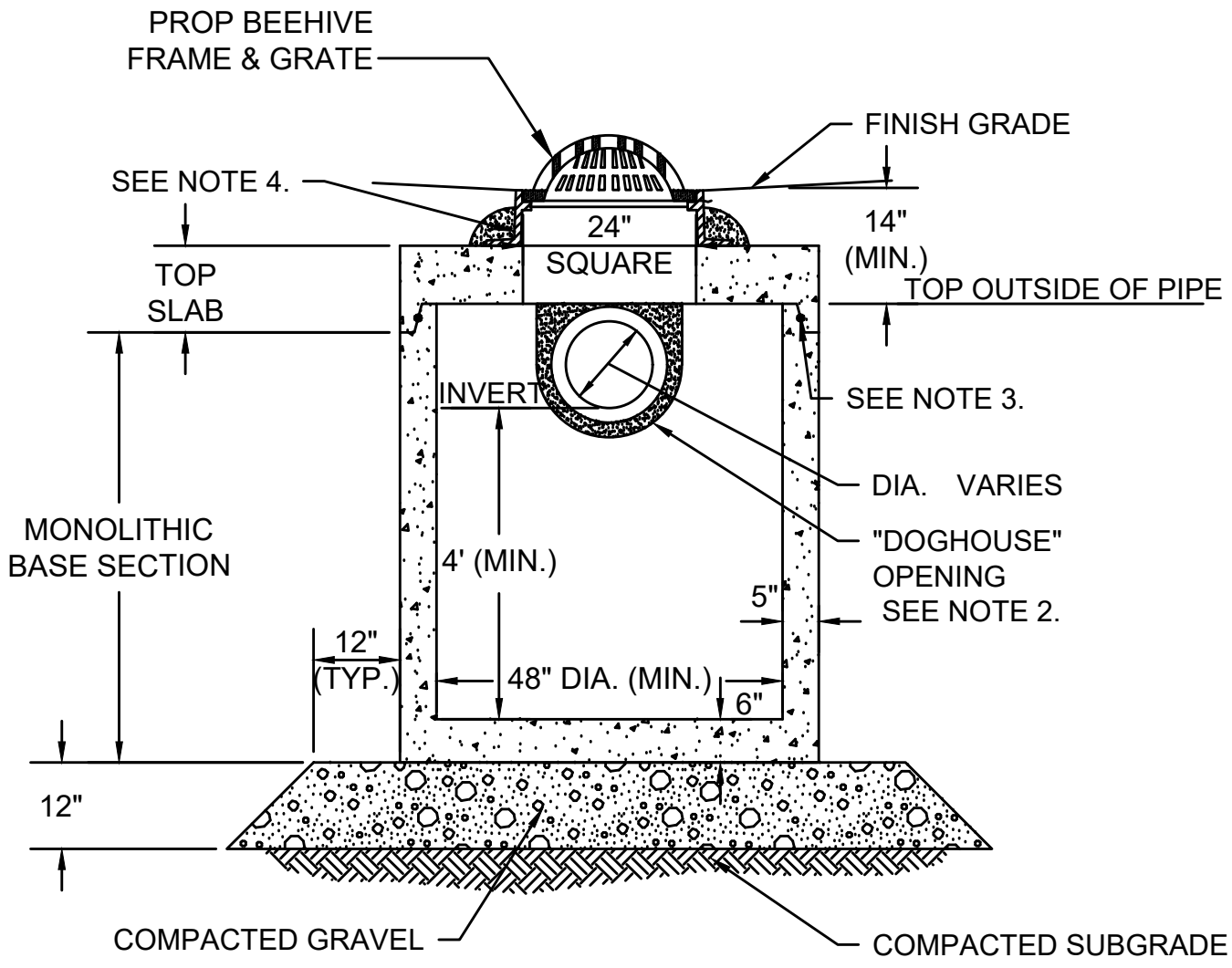
G



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)

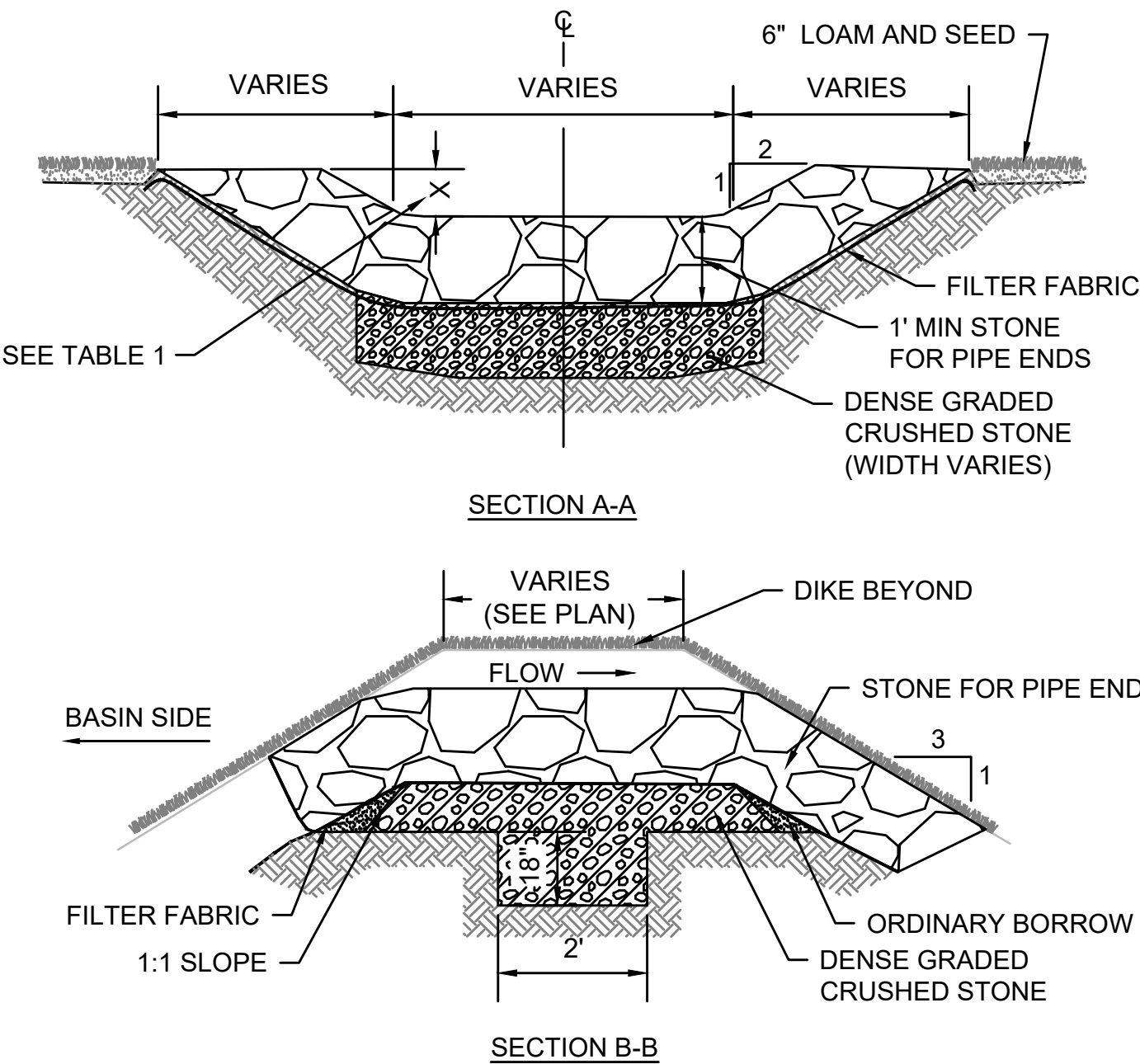
SCALE: N.T.S.



- 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.

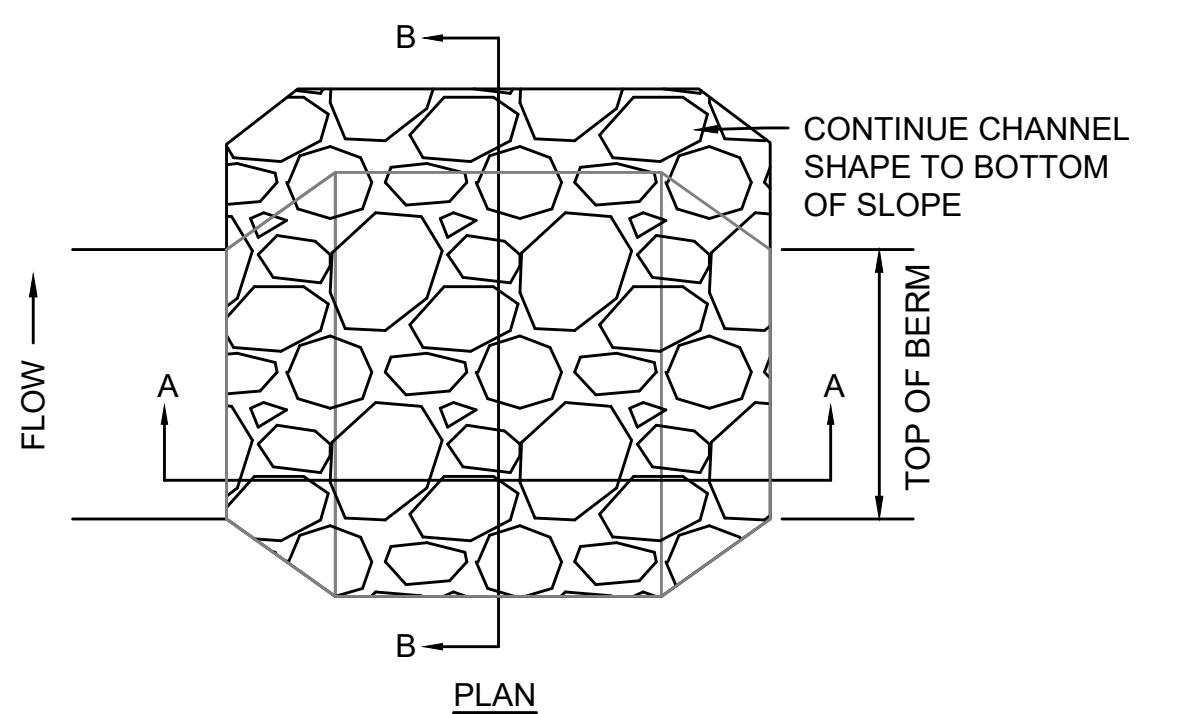


OVERFLOW STONE SWALE

SCALE: N.T.S.

TABLE 1

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



NO.		DESCRIPTION	BY	DATE	APPR.
EVERSOURCE					
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

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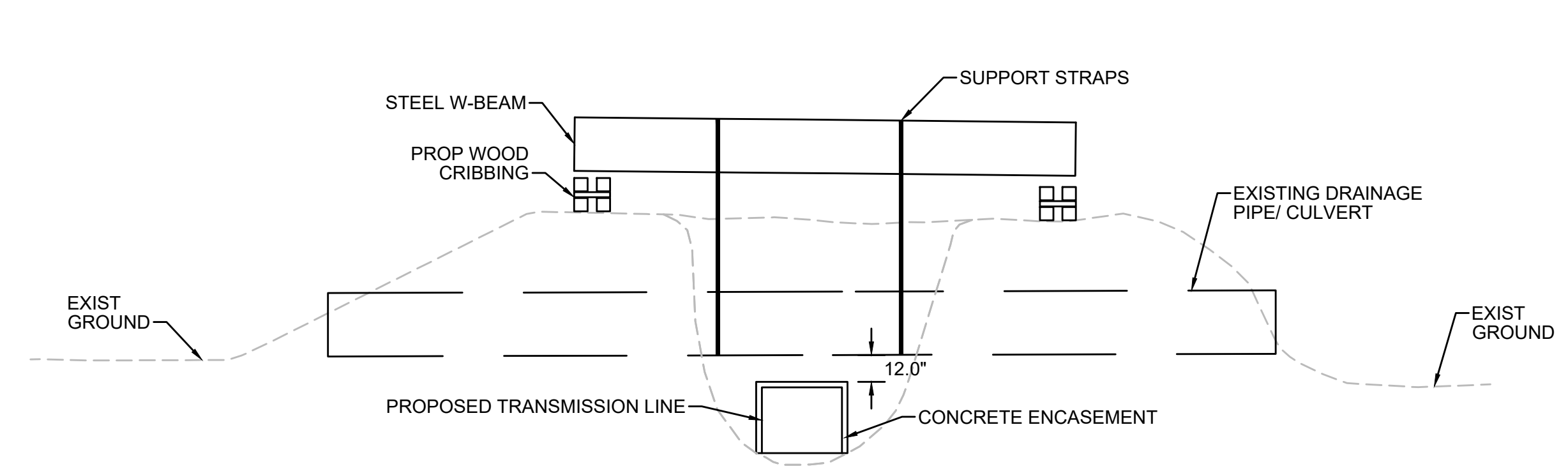
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C

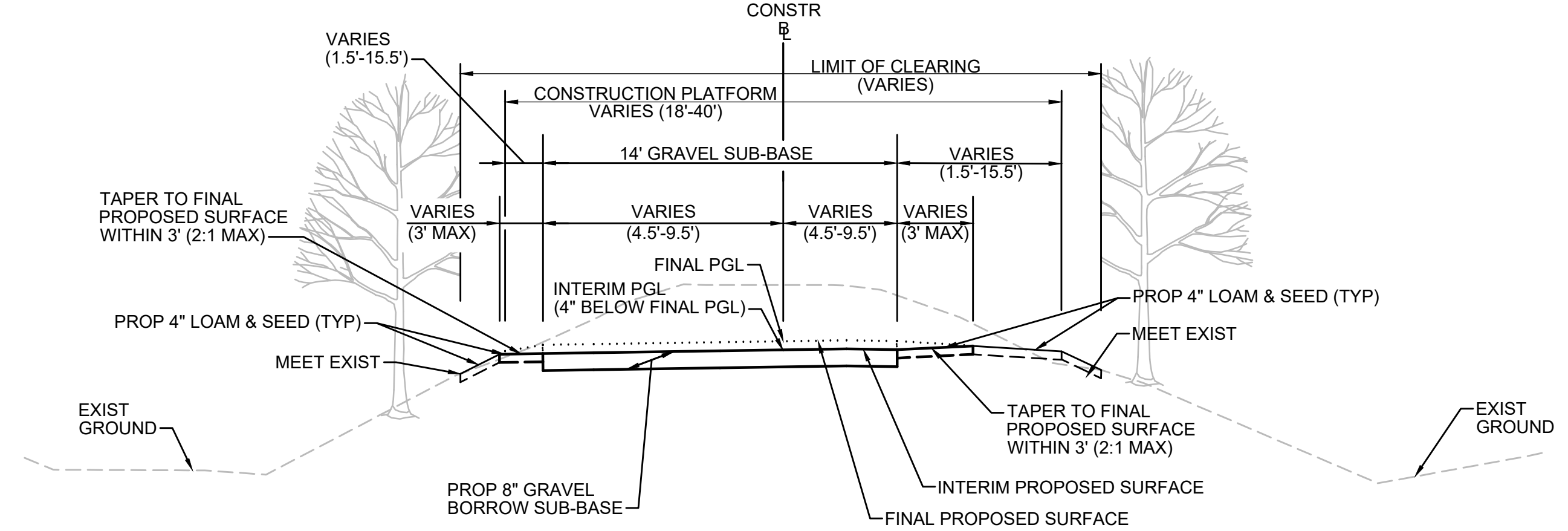


NOTES:

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

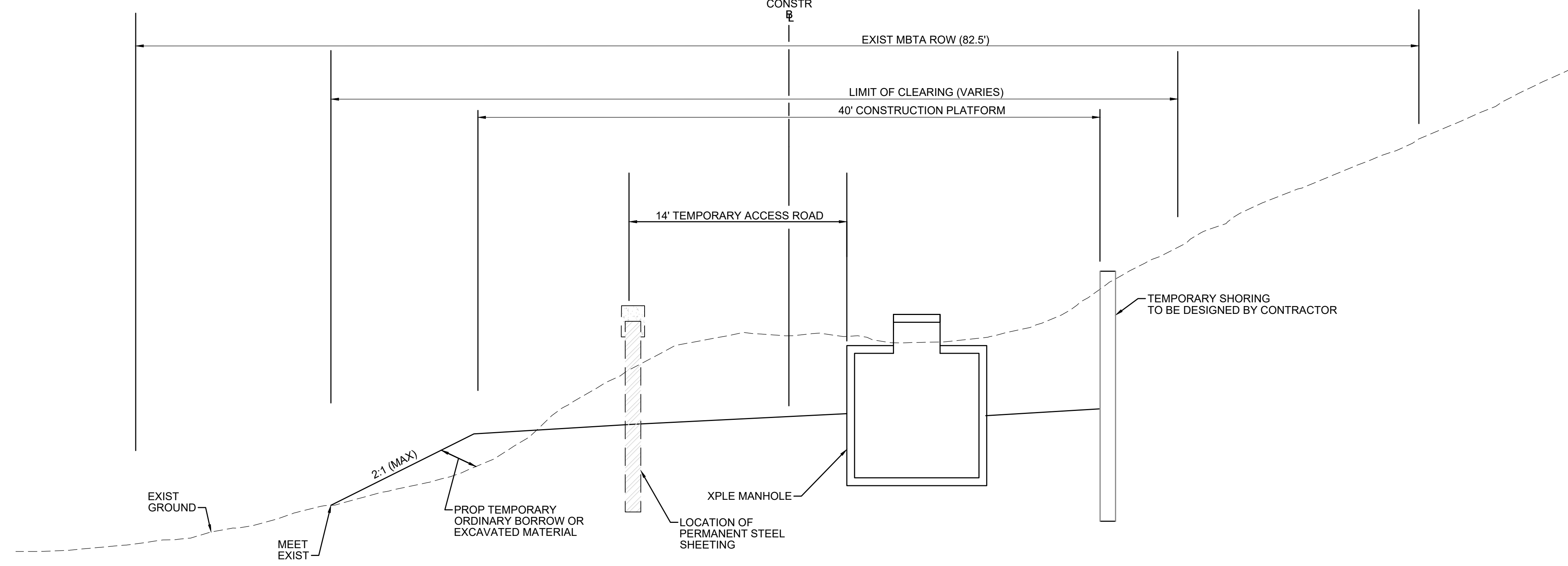
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NOTES:

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

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

SCALE: N.T.S.

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

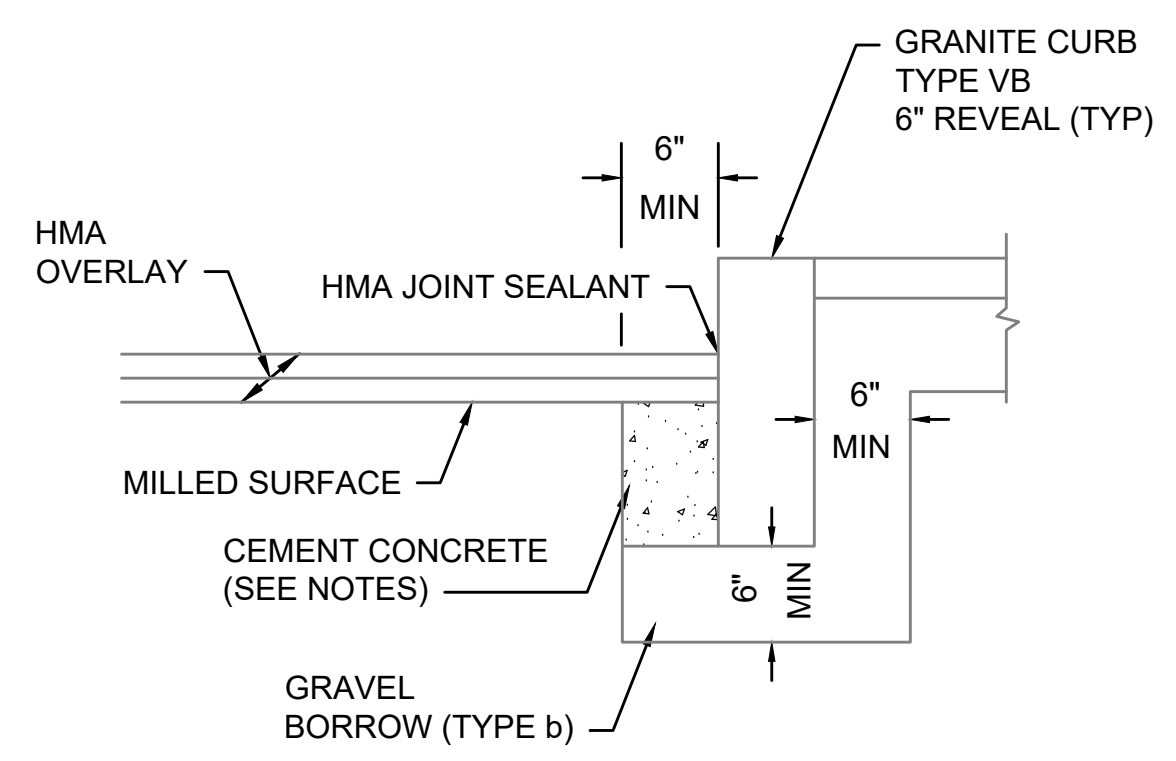
1 2 3 4 5 6 7 8 9 10 11

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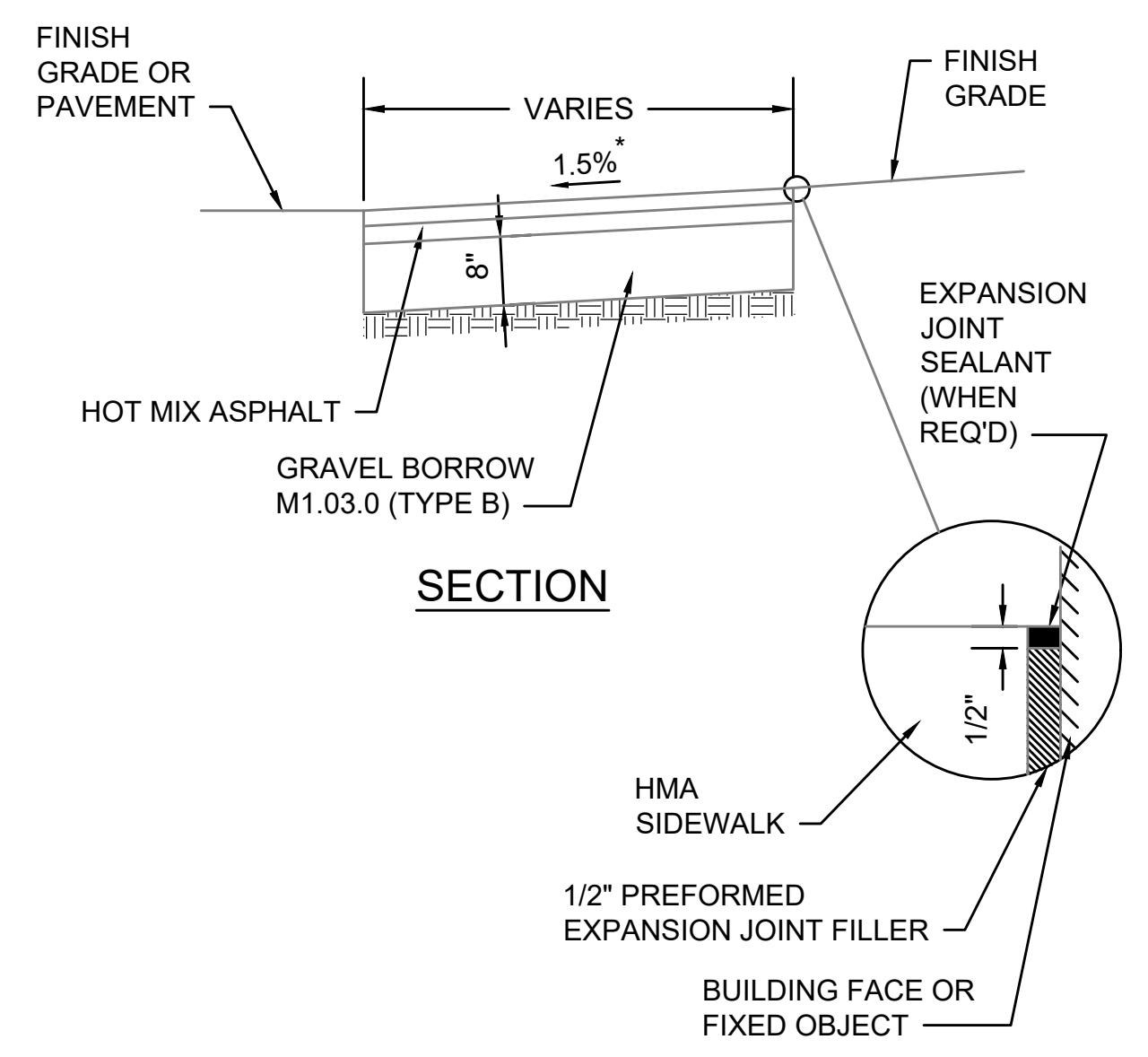
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- NOTES:**
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
 2. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE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

GRANITE CURB IN MILL & OVERLAY

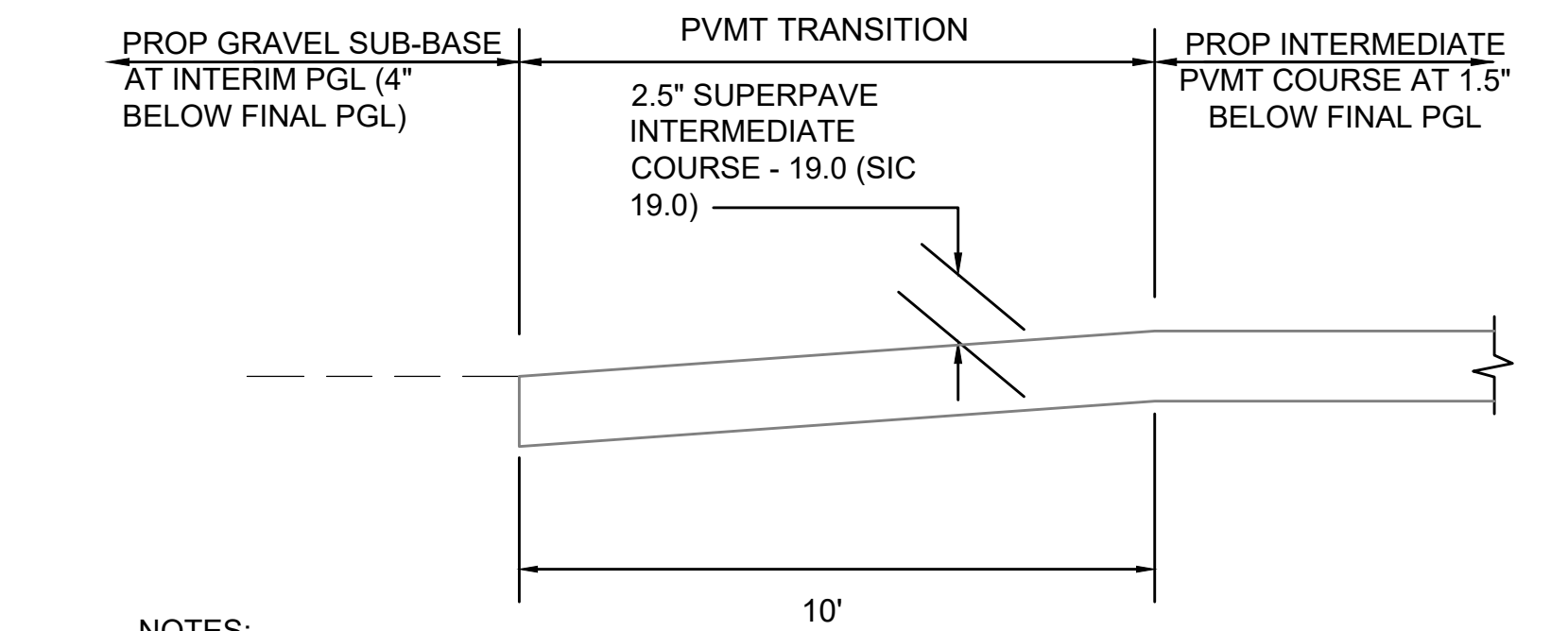
SCALE: N.T.S.



* TOLERANCE FOR CONSTRUCTION ±0.5%

HOT MIX ASPHALT SIDEWALK

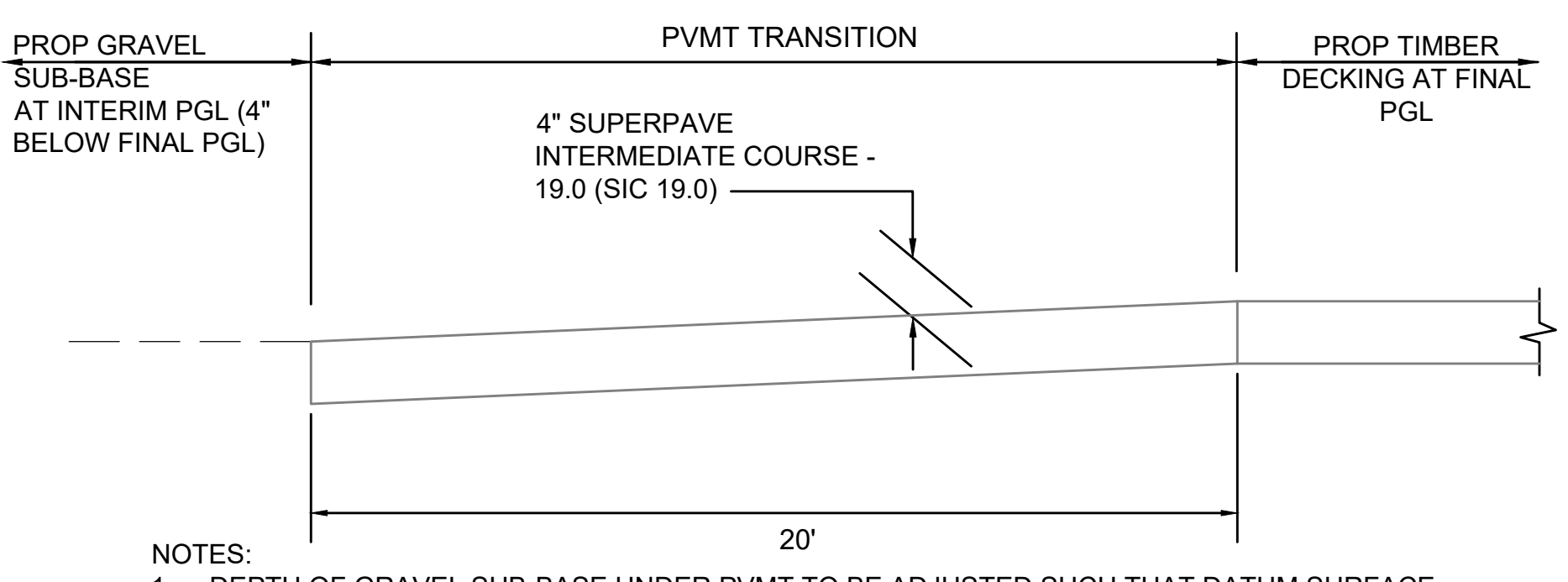
SCALE: N.T.S. DWG: WALK-01 DATE: MARCH 2013



- 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

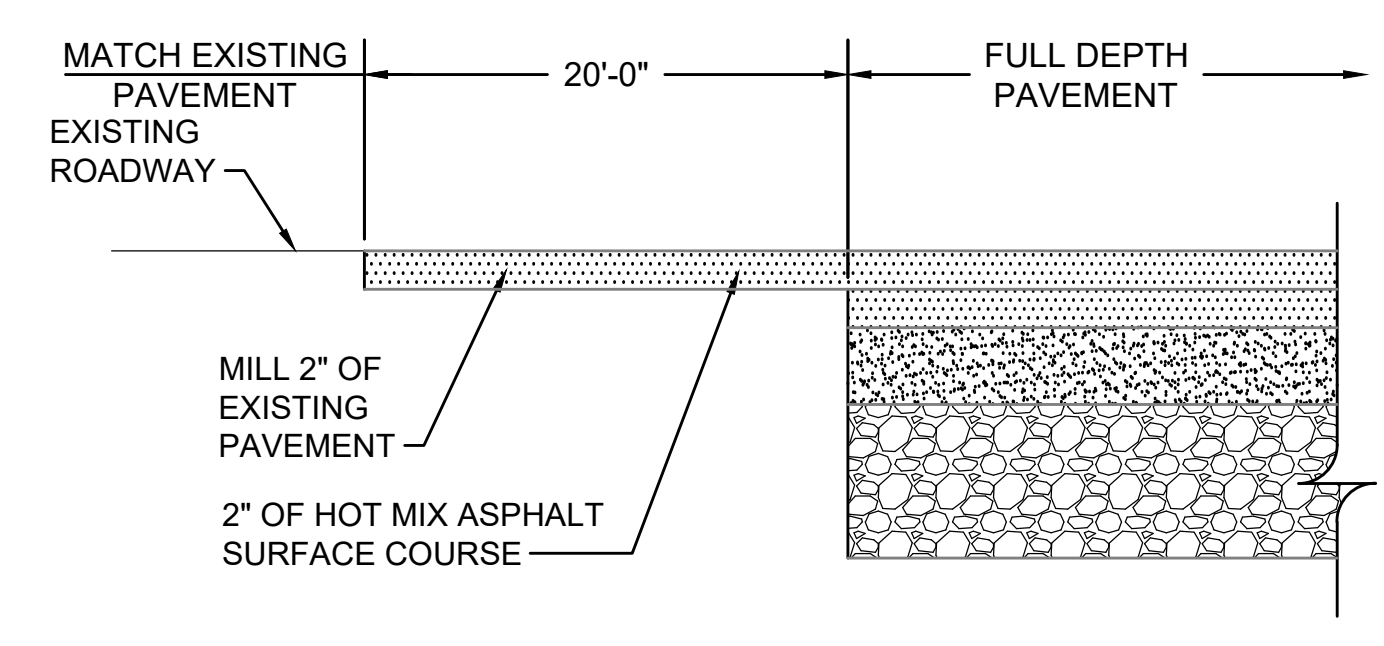
SCALE: N.T.S.



- 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

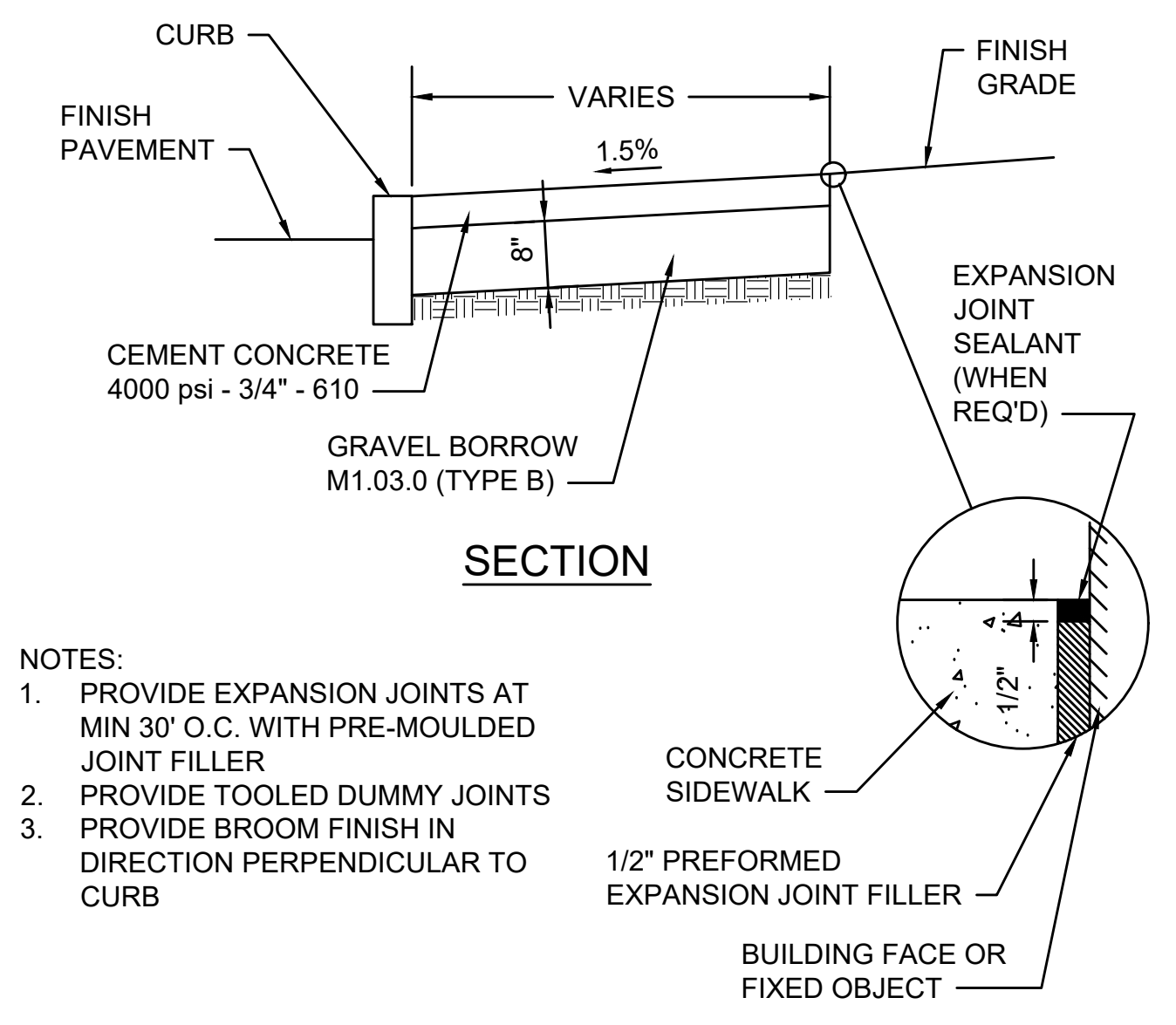
SCALE: N.T.S.



LONGITUDINAL SECTION

FULL DEPTH PAVEMENT TRANSITION

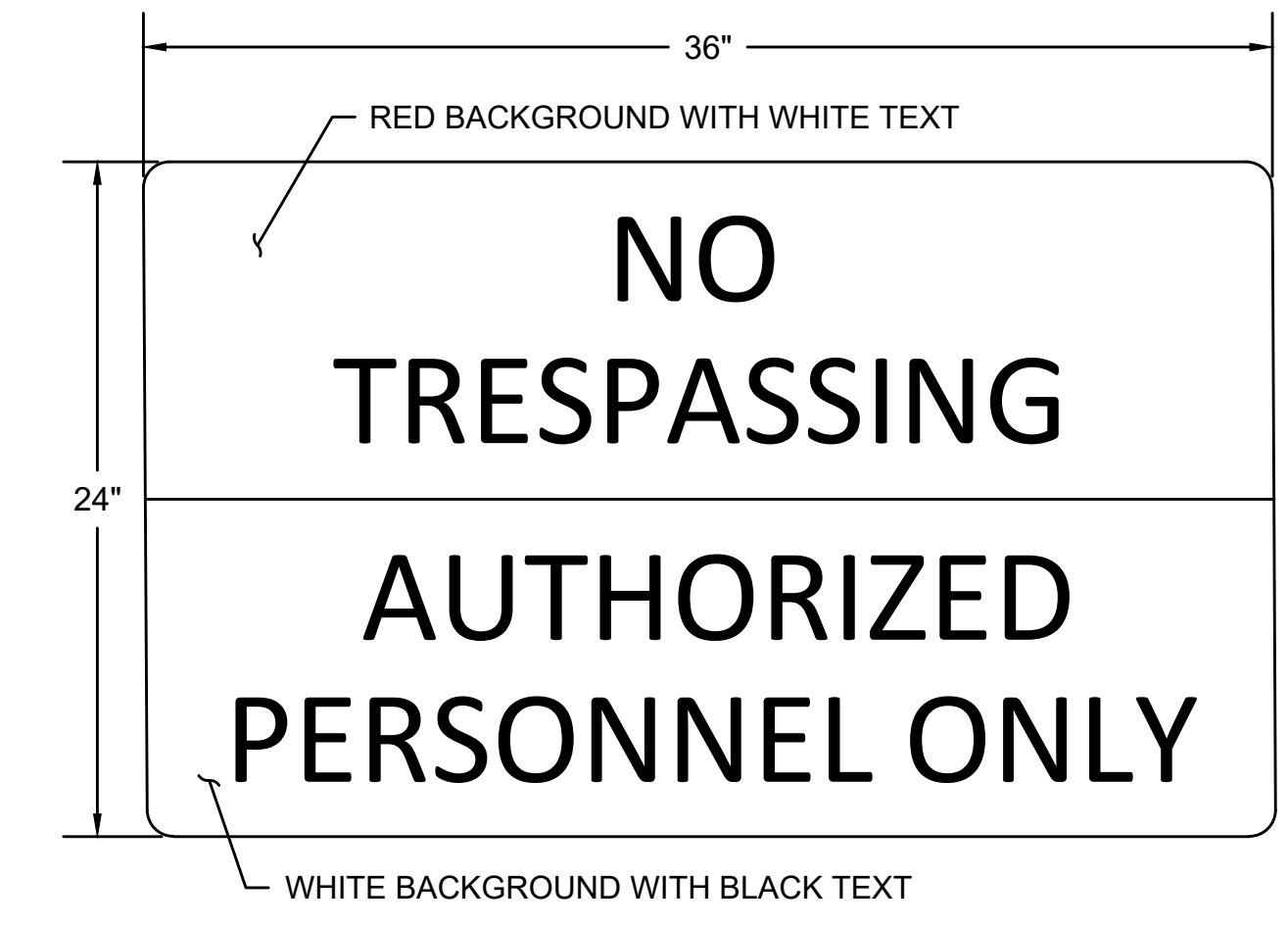
SCALE: N.T.S.



- 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

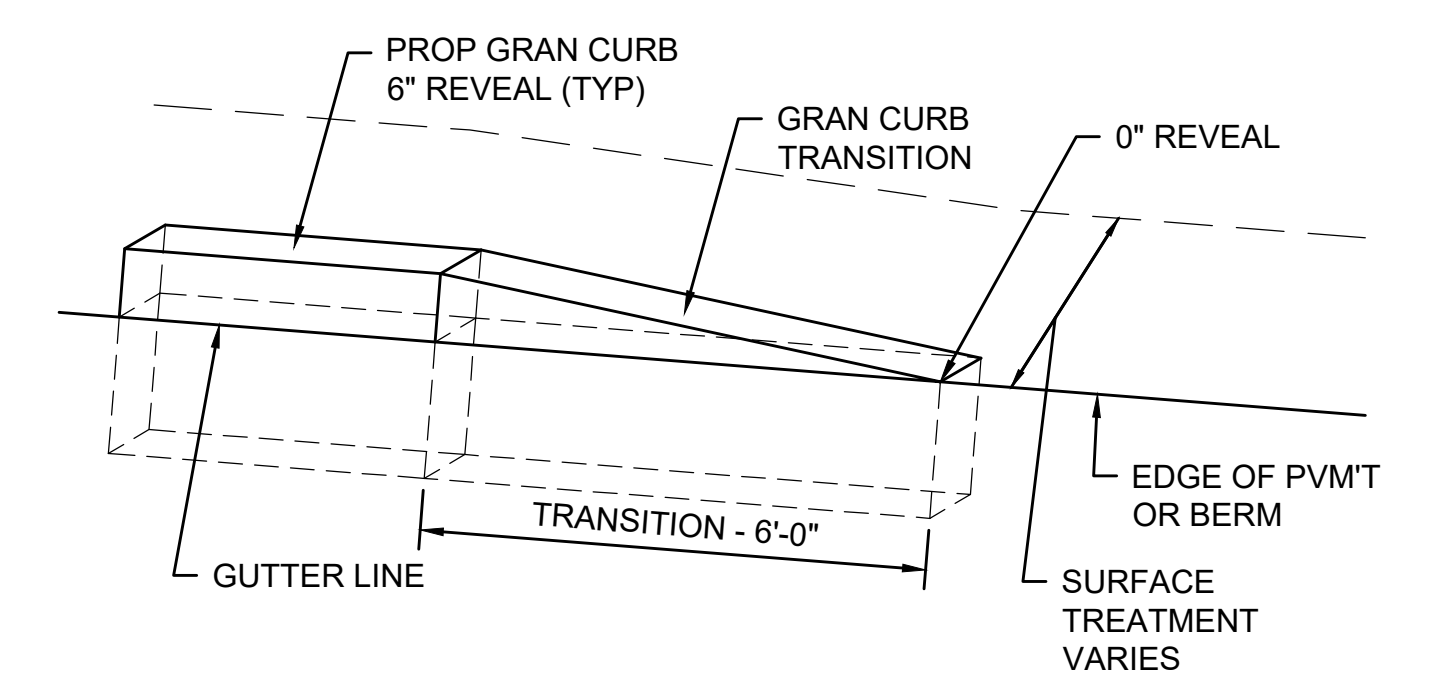
CEMENT CONCRETE SIDEWALK

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

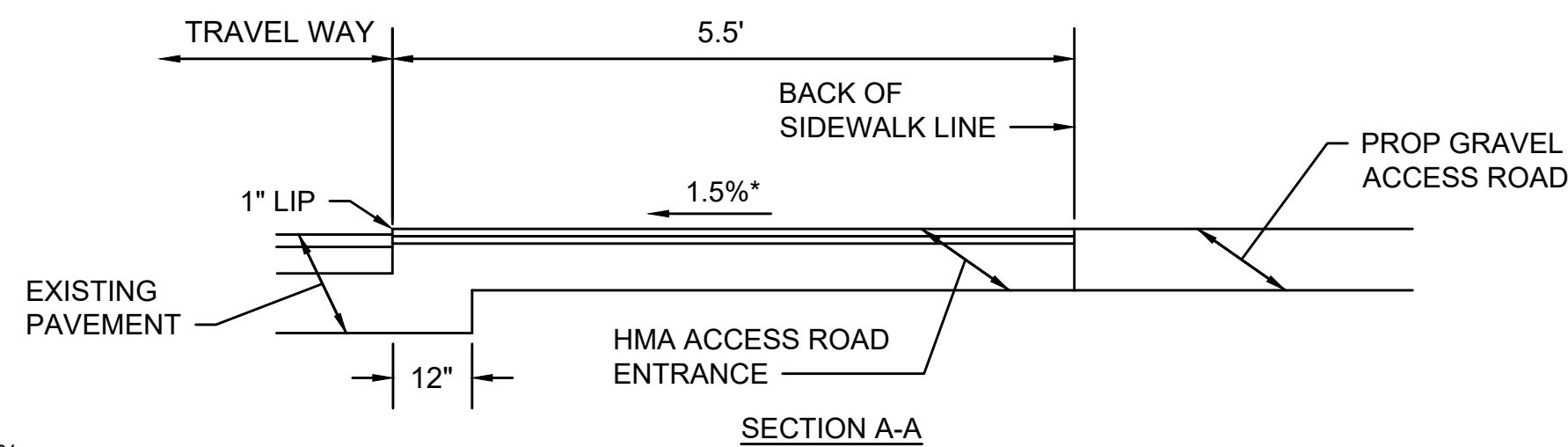
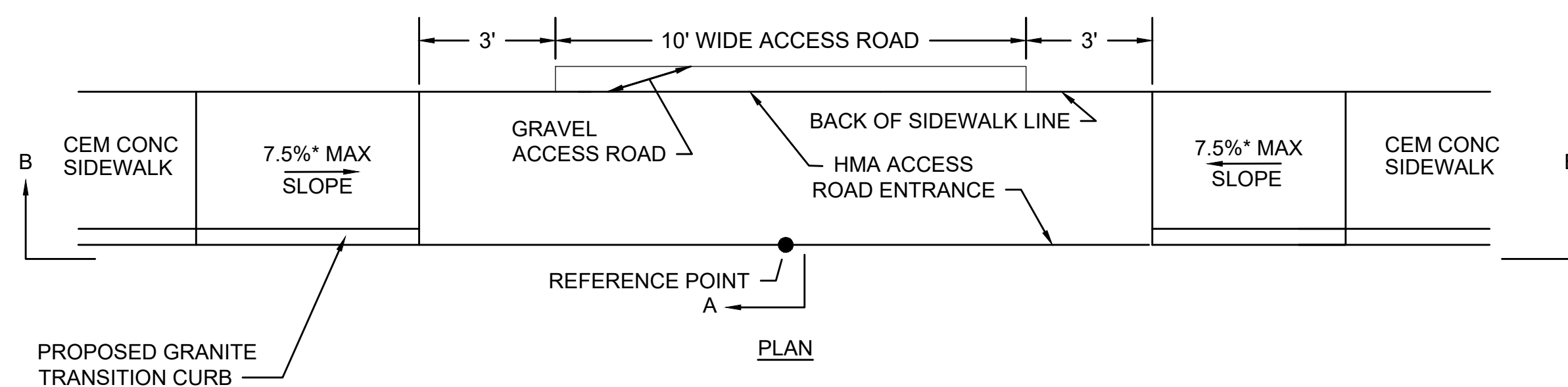
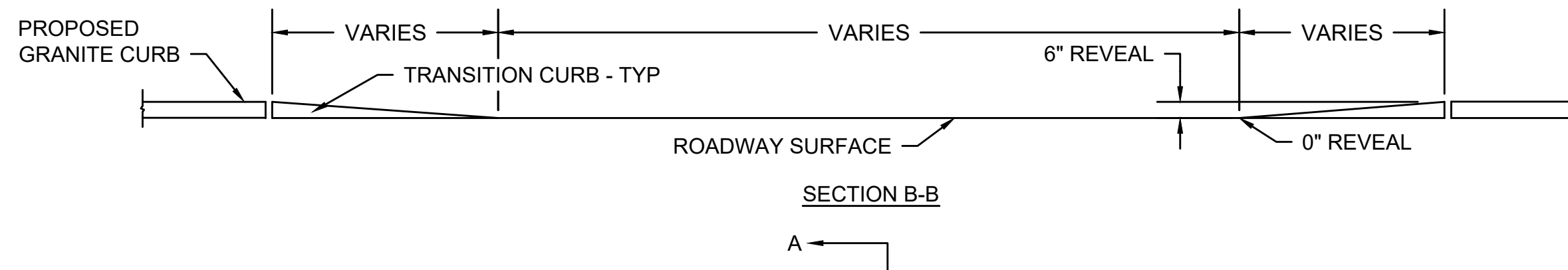


GRANITE CURB TRANSITION PIECE

SCALE: N.T.S.

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

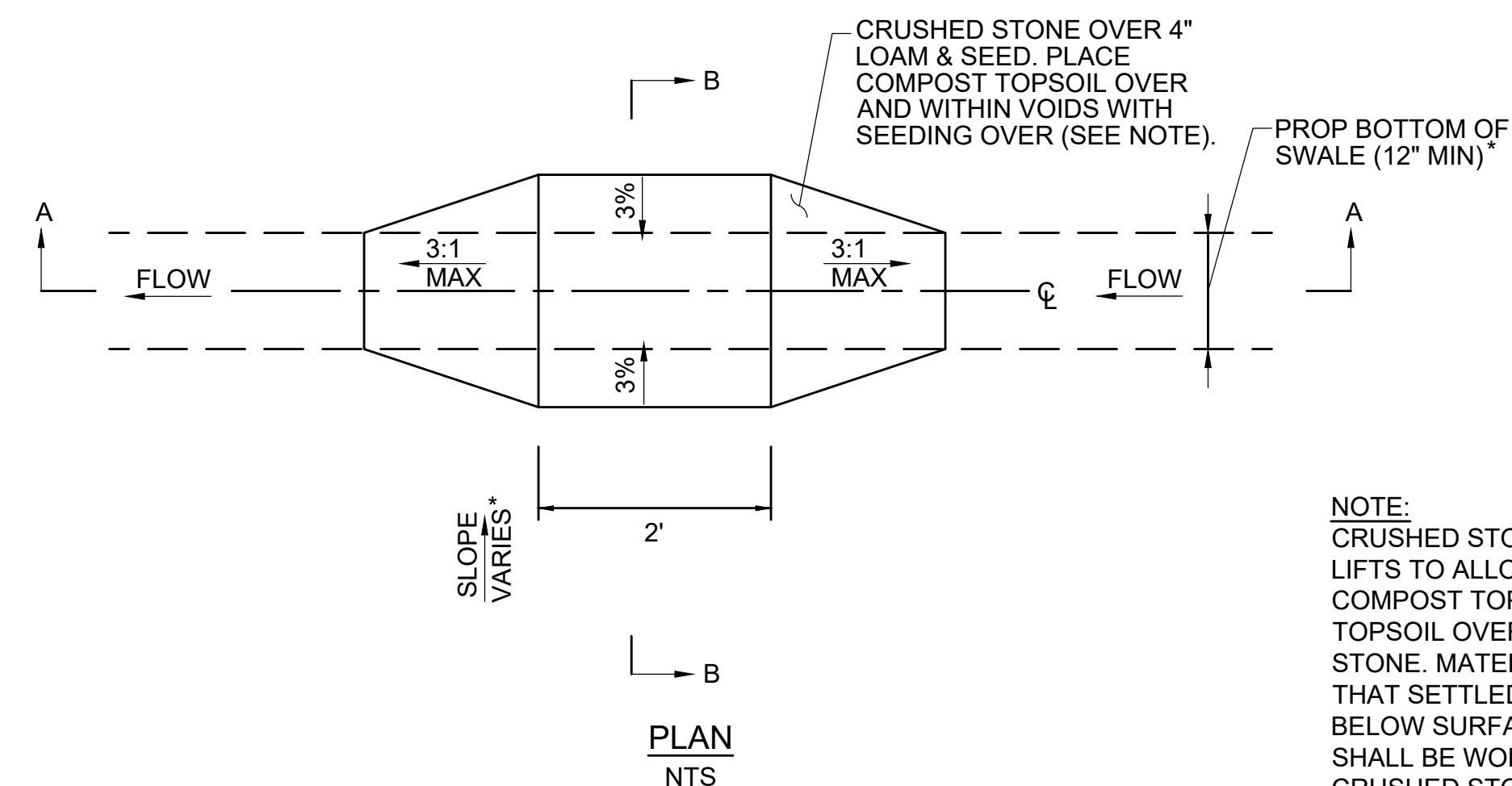
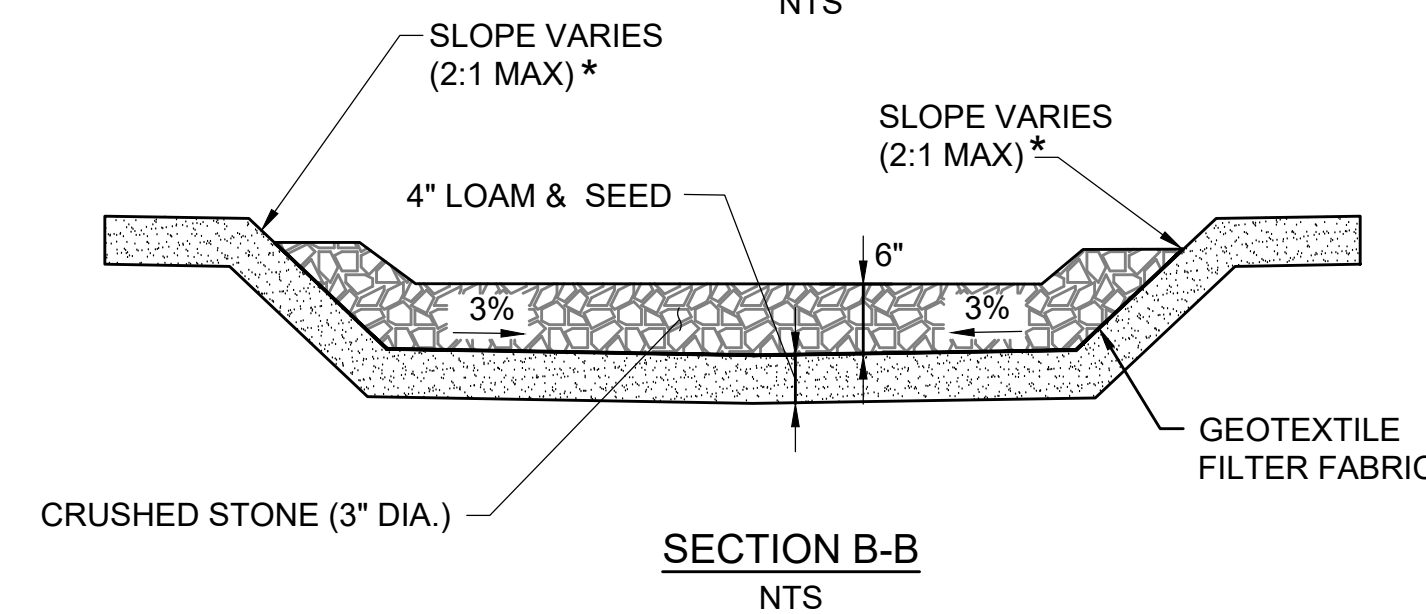
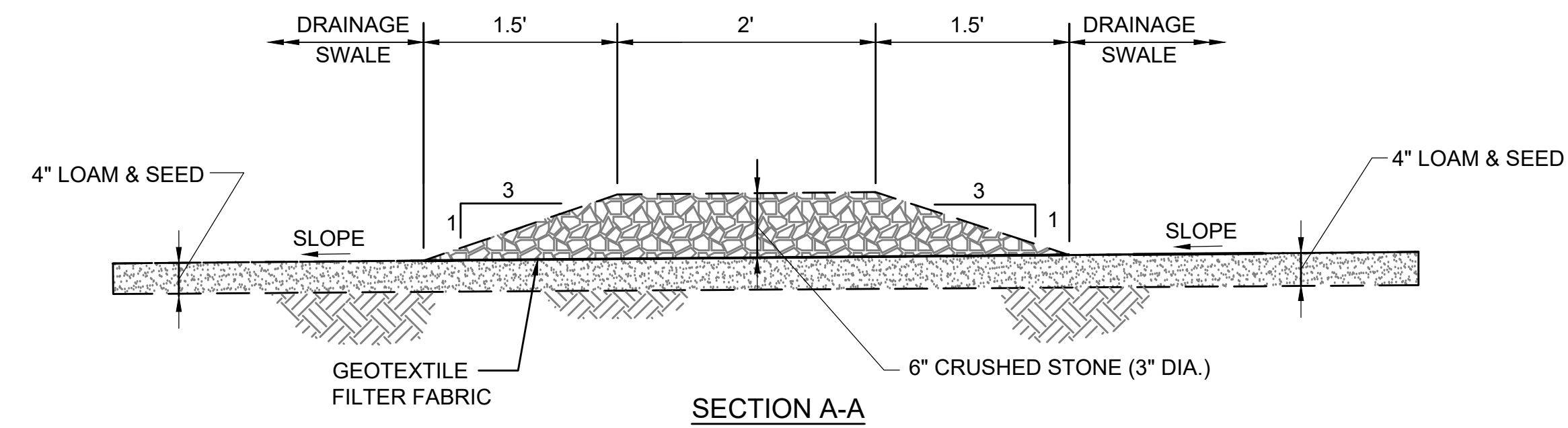
ACCESS ROAD CROSSING DATA									
NO.	LOCATION (REF POINT)	ROADWAY GUTTER	SIDEWALK WIDTH	LEFT SIDE		RIGHT SIDE		OPENING ELEVATION	COMMENTS
				REVEAL	TRANS	REVEAL	TRANS		
BOSTON POST ROAD (ROUTE 20) STATE HIGHWAY LAYOUT									
1	182+61.6, 9.6' LT	5.2%	5'-6"	6"	9'-0"	6"	7'-8"	134.31'	



*TOLERANCE FOR CONSTRUCTION ±0.5%

TYPICAL ACCESS ROAD CROSSING WITH SIDEWALK AND WITHOUT CURB RETURNS

SCALE: N.T.S.

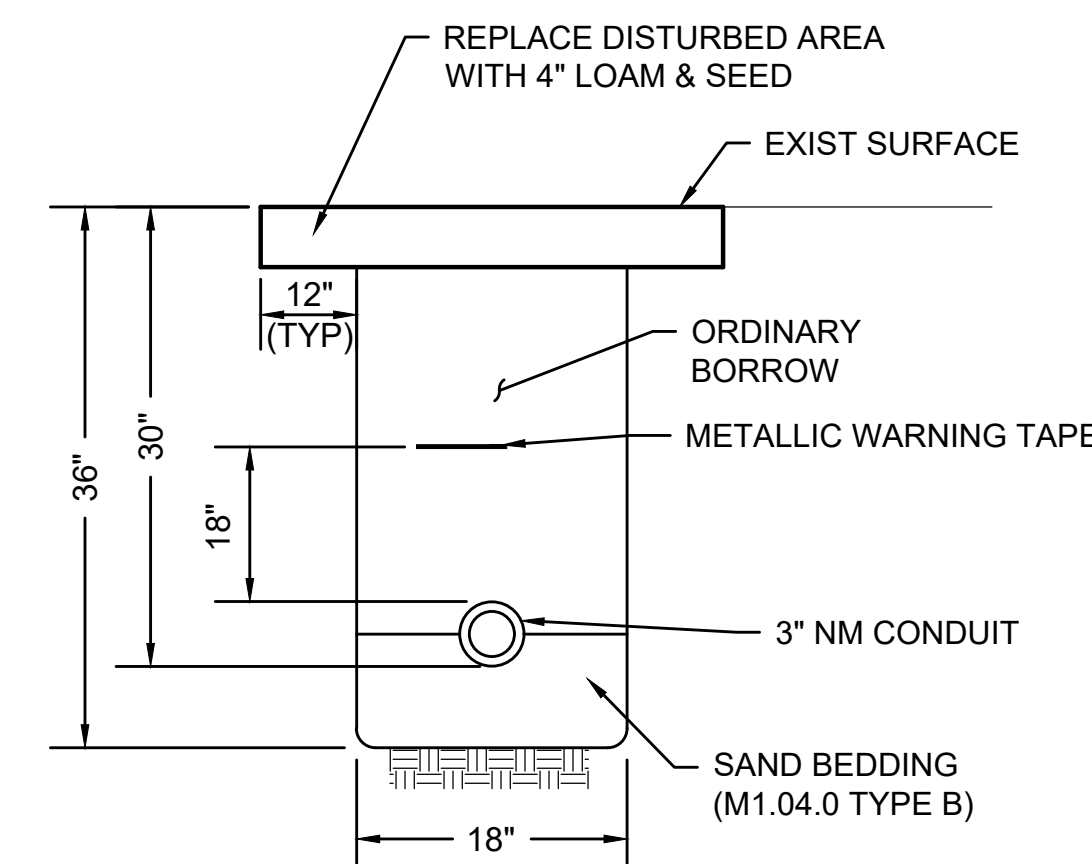
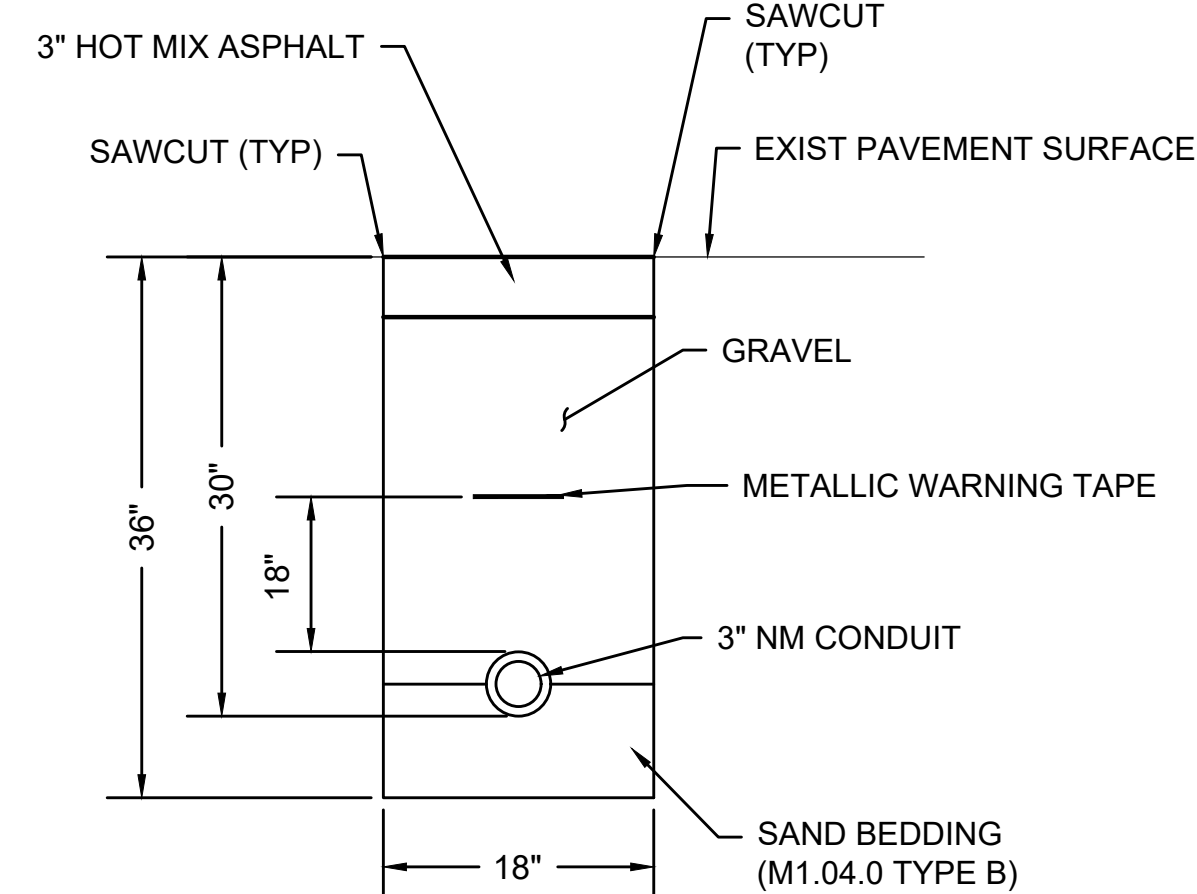
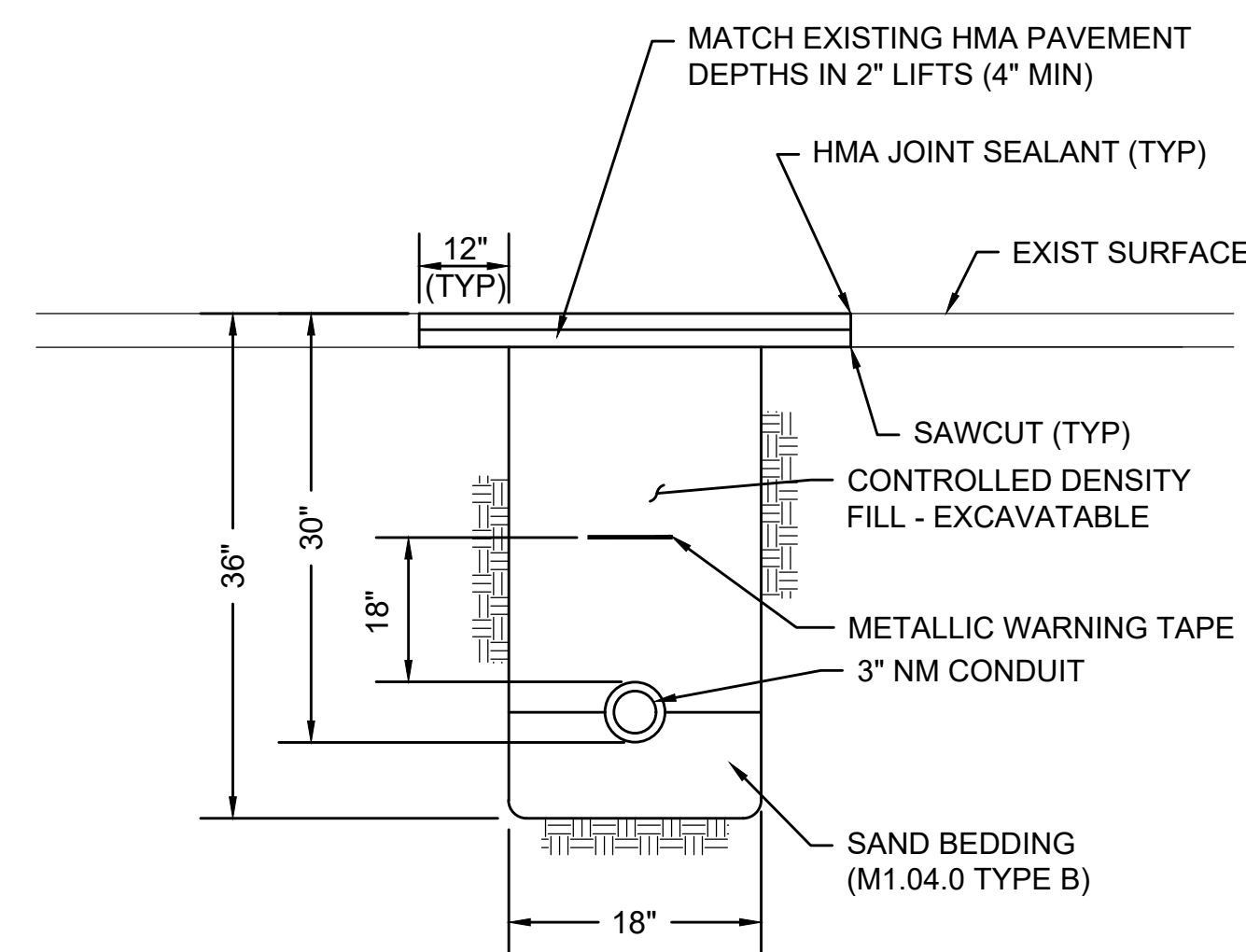


NOTE:
CRUSHED STONE TO BE PLACED IN TWO LIFTS TO ALLOW FOR THE APPLICATION OF COMPOST TOPSOIL. APPLY COMPOST TOPSOIL OVER AND WITHIN THE CRUSHED STONE. MATERIAL SHOULD BE PLACED SUCH THAT SETTLED MATERIAL IS AT OR SLIGHTLY BELOW SURFACE PLANE OF STONE AND SHALL BE WORKED INTO THE VOIDS OF THE CRUSHED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

SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION

CHECK DAM

SCALE: N.T.S.



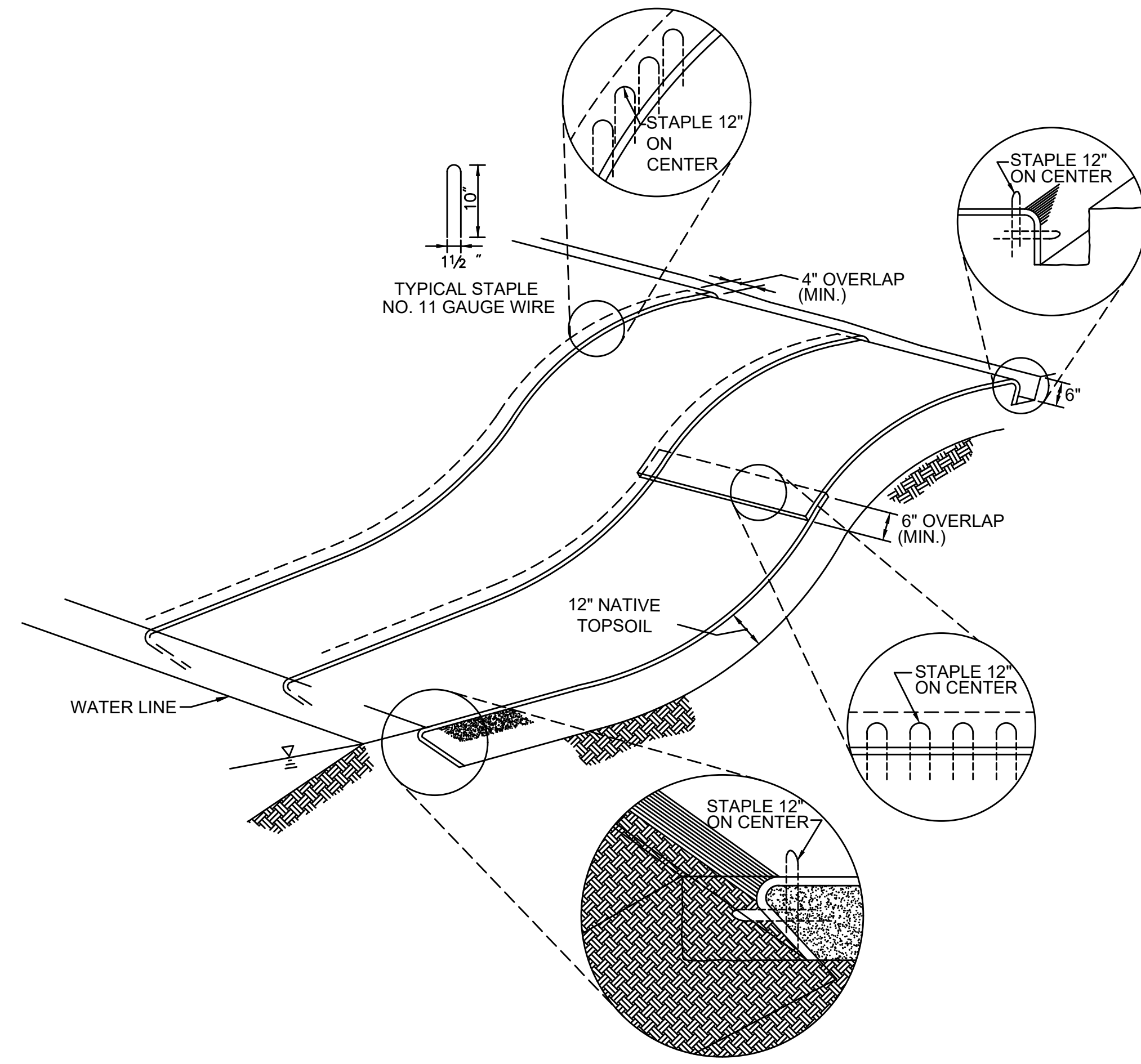
NO.	DESCRIPTION	BY	DATE	APPR.	
					REVISION
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CONSTRUCTION DETAILS					
PLAN 159 OF 347					
SCALE: unless noted NTS	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.

NOTES FOR BIONET C700BN EROSION CONTROL BLANKET:

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

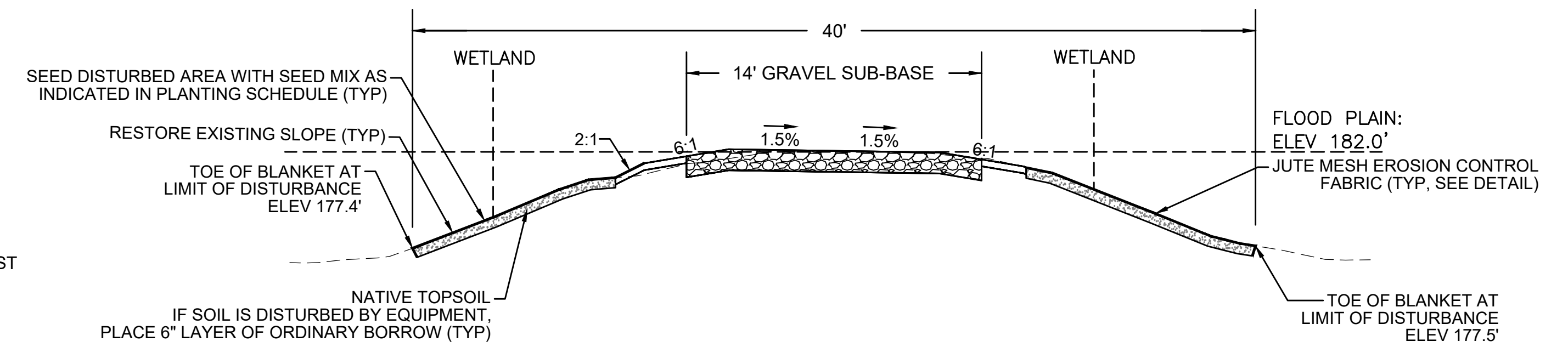
NOTES FOR JUTE MESH EROSION CONTROL FABRIC:

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.

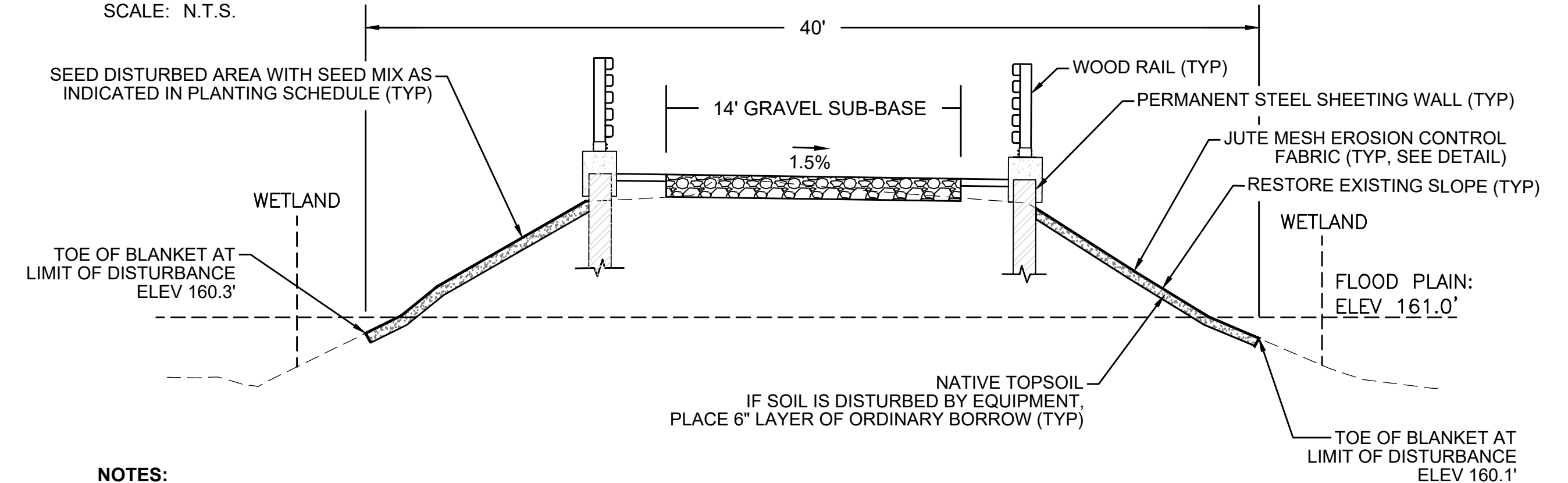


NOTES:

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.

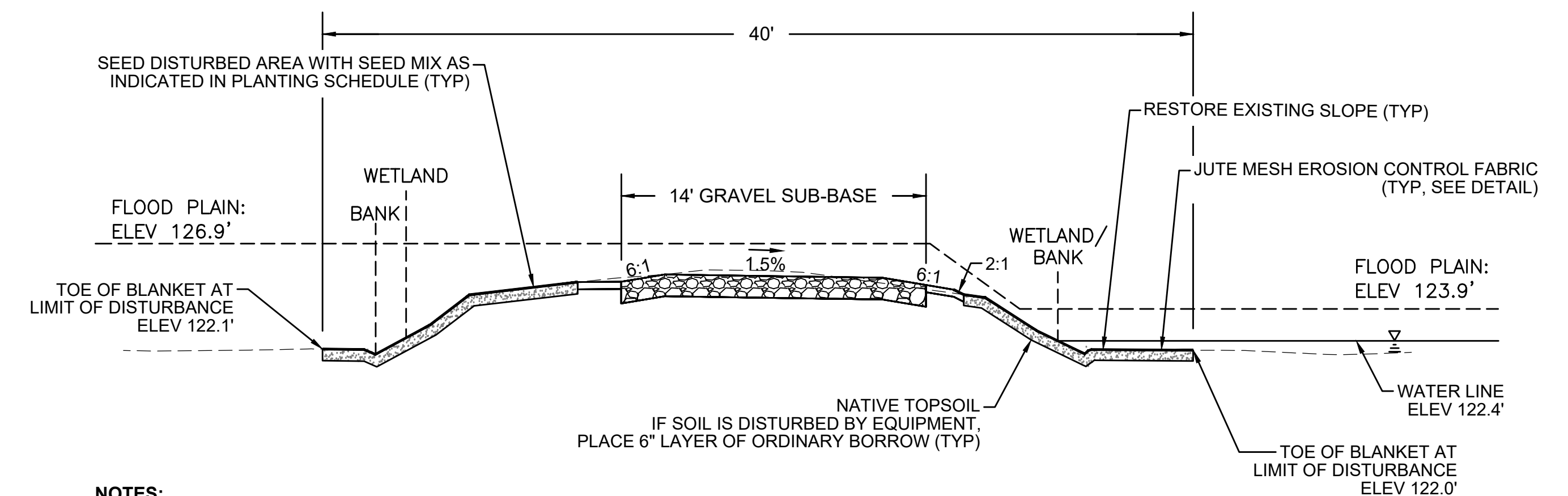


NOTES:

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.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
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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 PLANS 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.

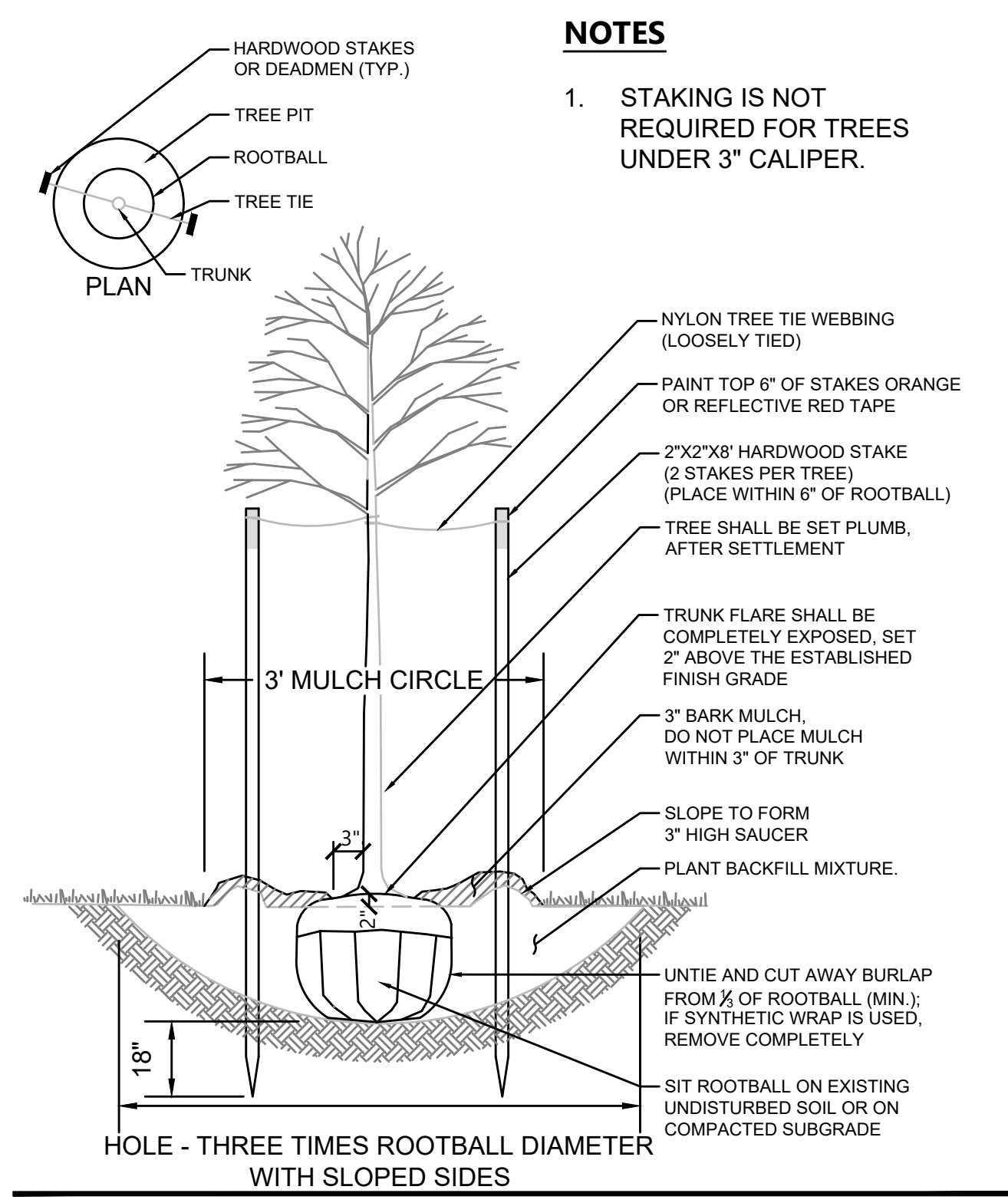
PLANT MAINTENANCE NOTES:

- 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					
EVERSOURCE					
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CONSTRUCTION DETAILS					
PLAN 161 OF 347					
SCALE: unless noted NTS	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO. REV.
	JAN 2021	MS	SK	MES	. .

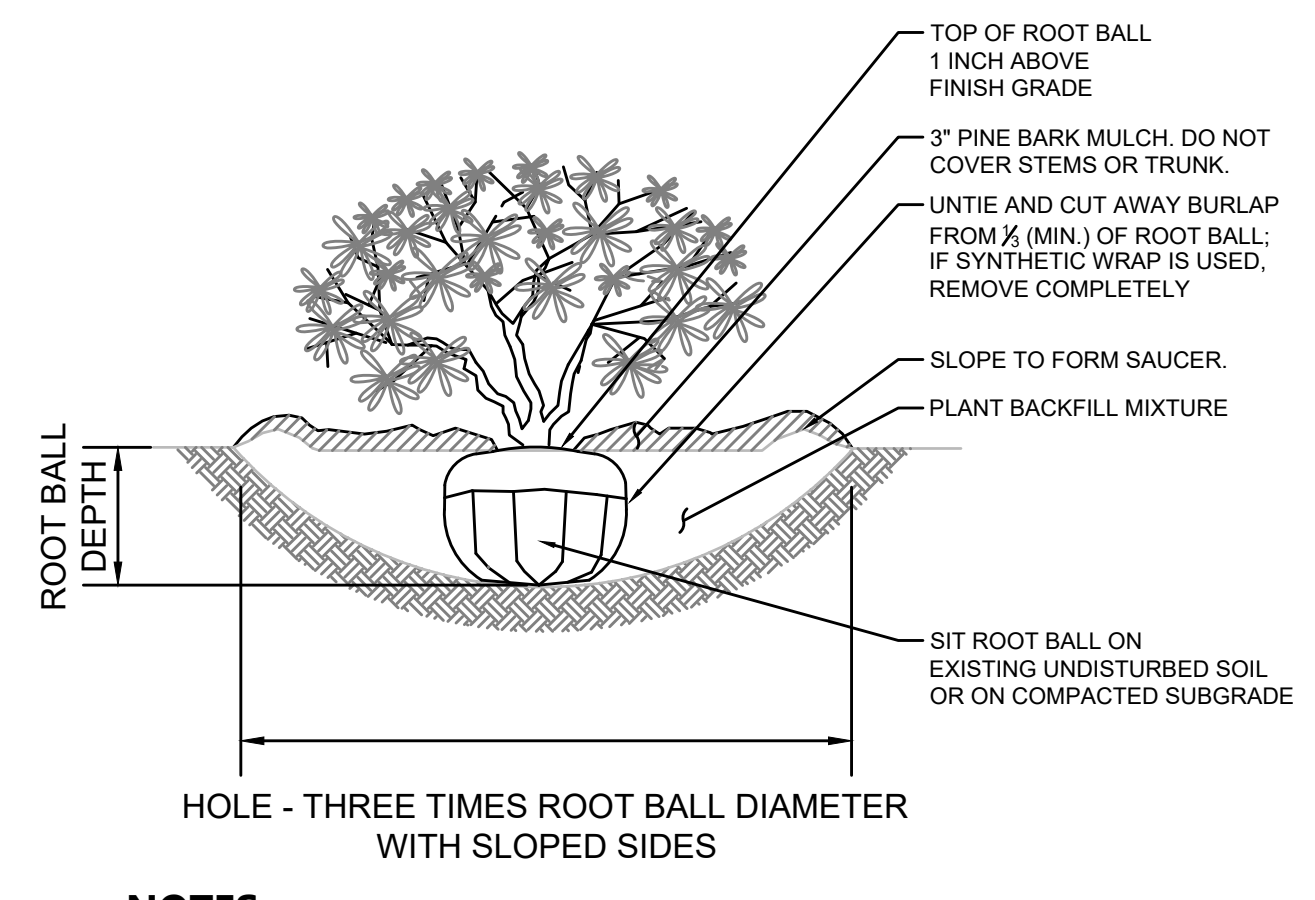
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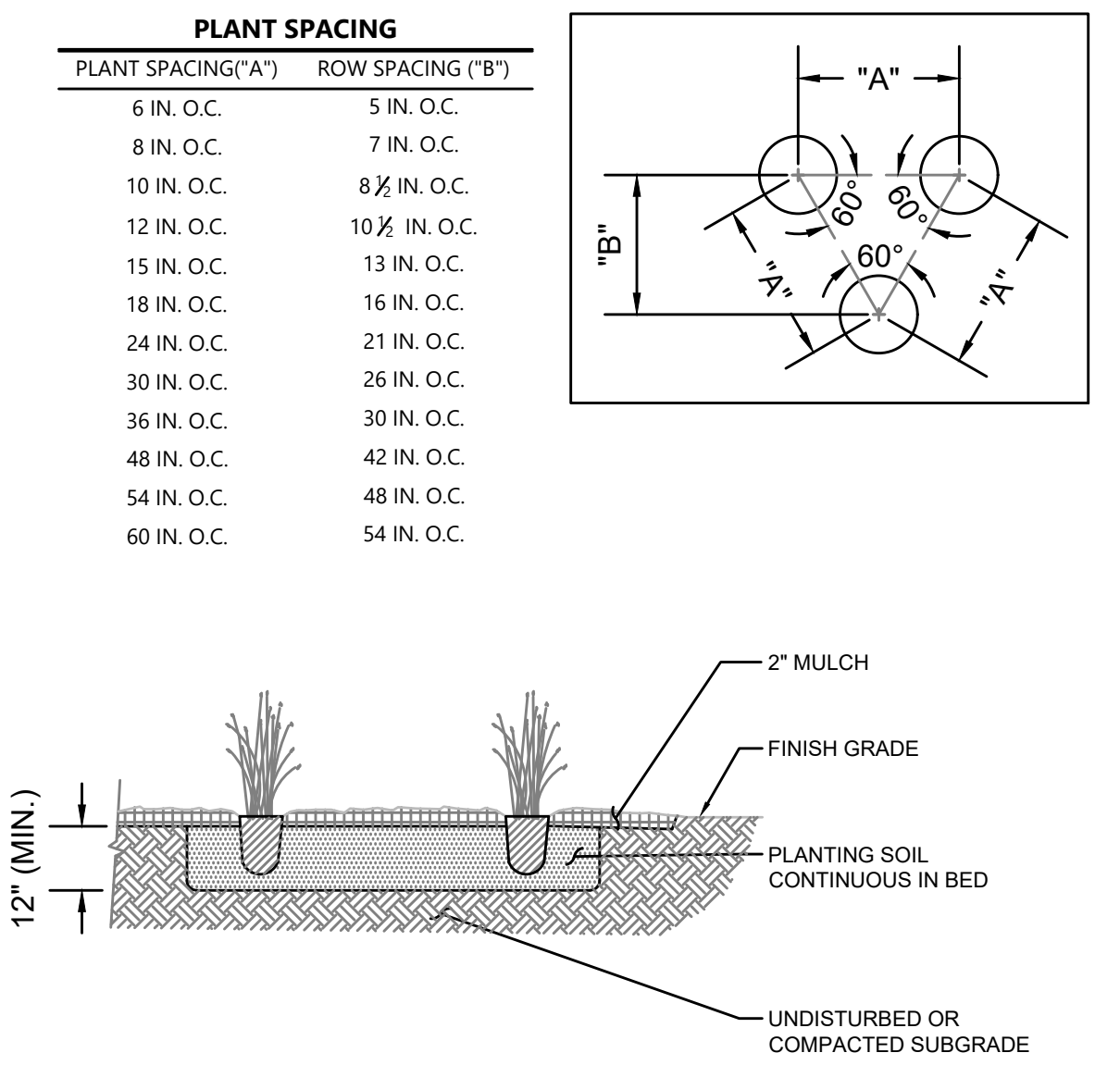
NOTES
1. STAKING IS NOT REQUIRED FOR TREES UNDER 3\"/>

TREE PLANTING (FOR TREES UNDER 4\"/>



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

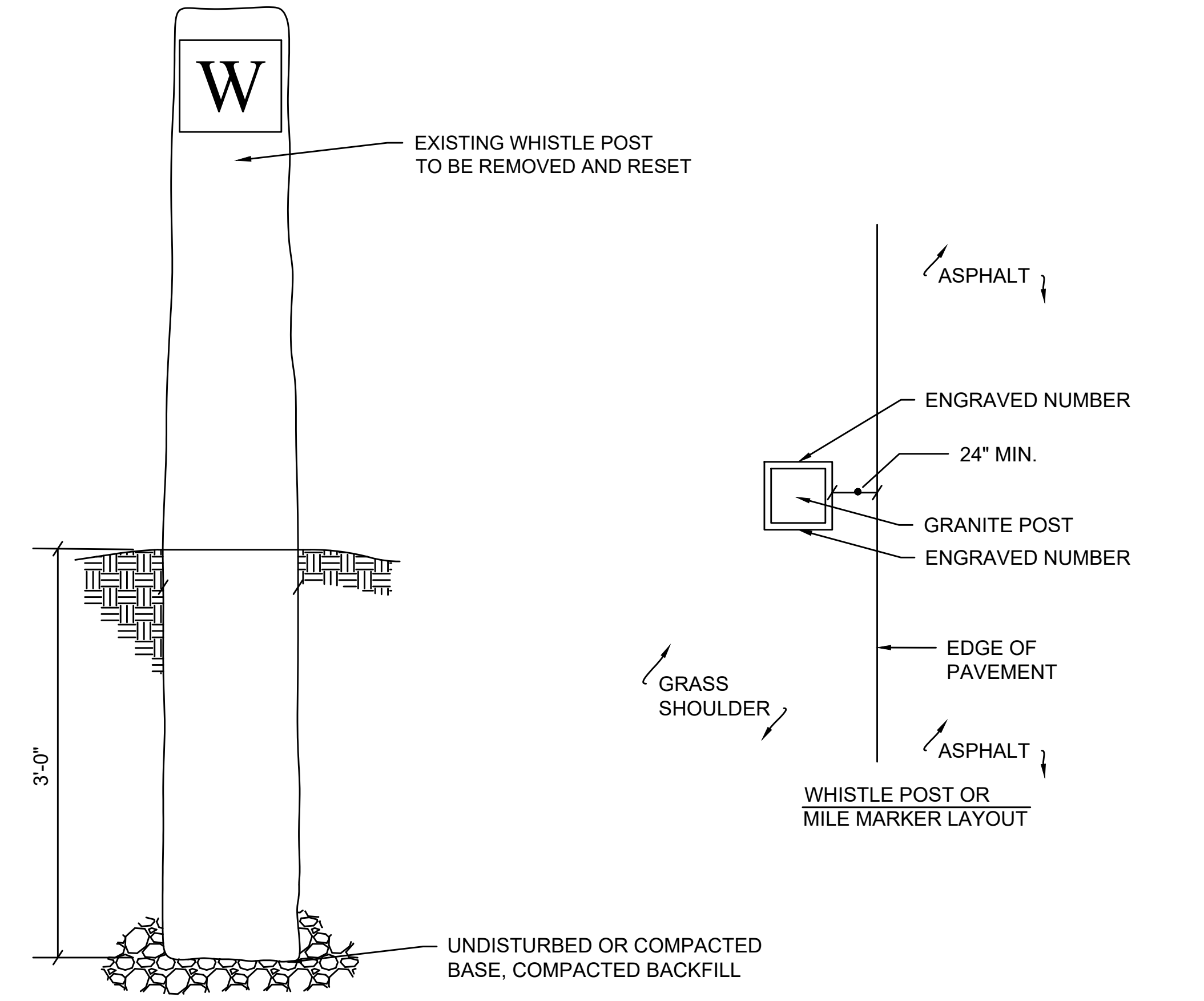
SHRUB PLANTING
SCALE: NTS



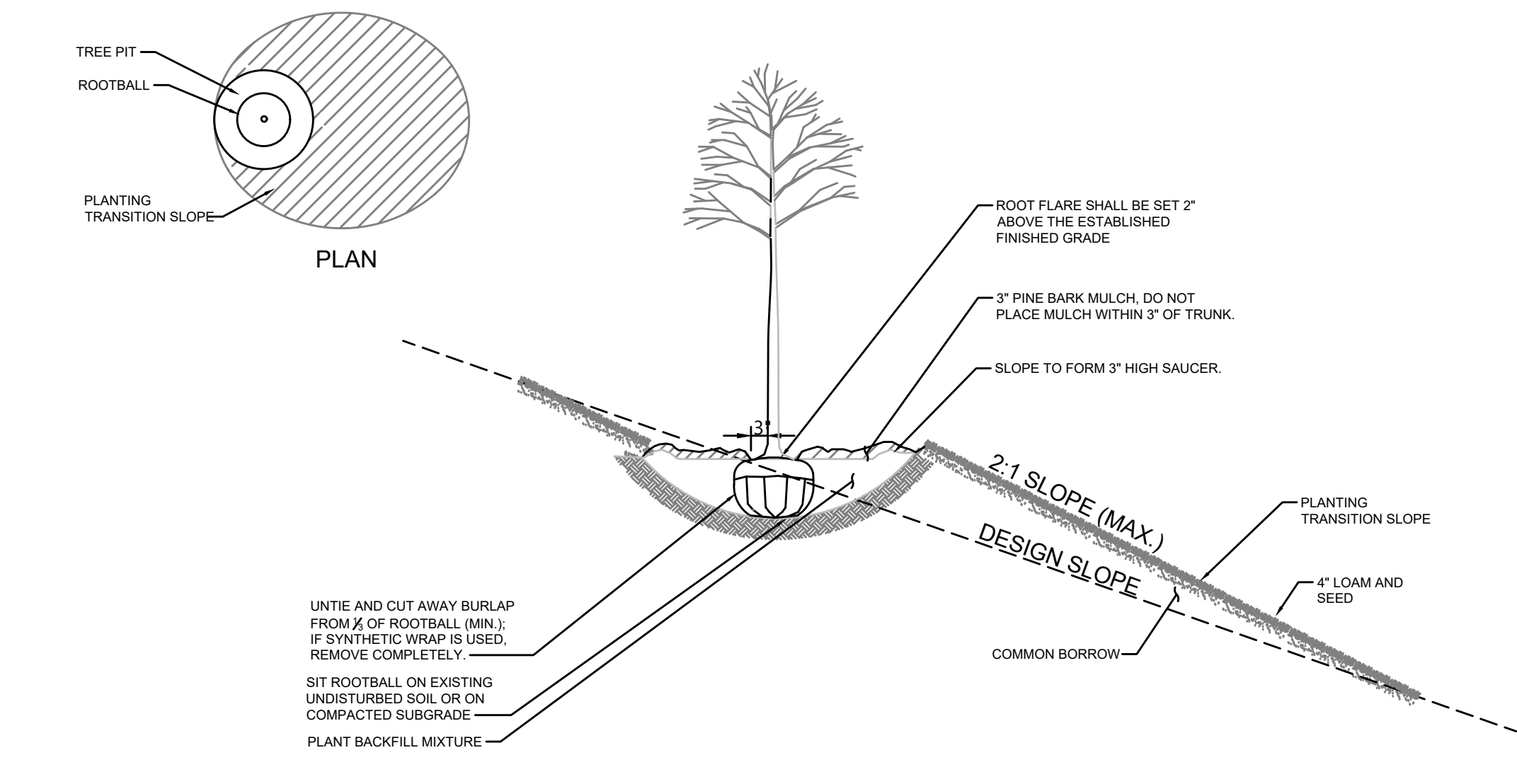
PERENNIAL PLANTING
SCALE: NTS

PLANT SPACING

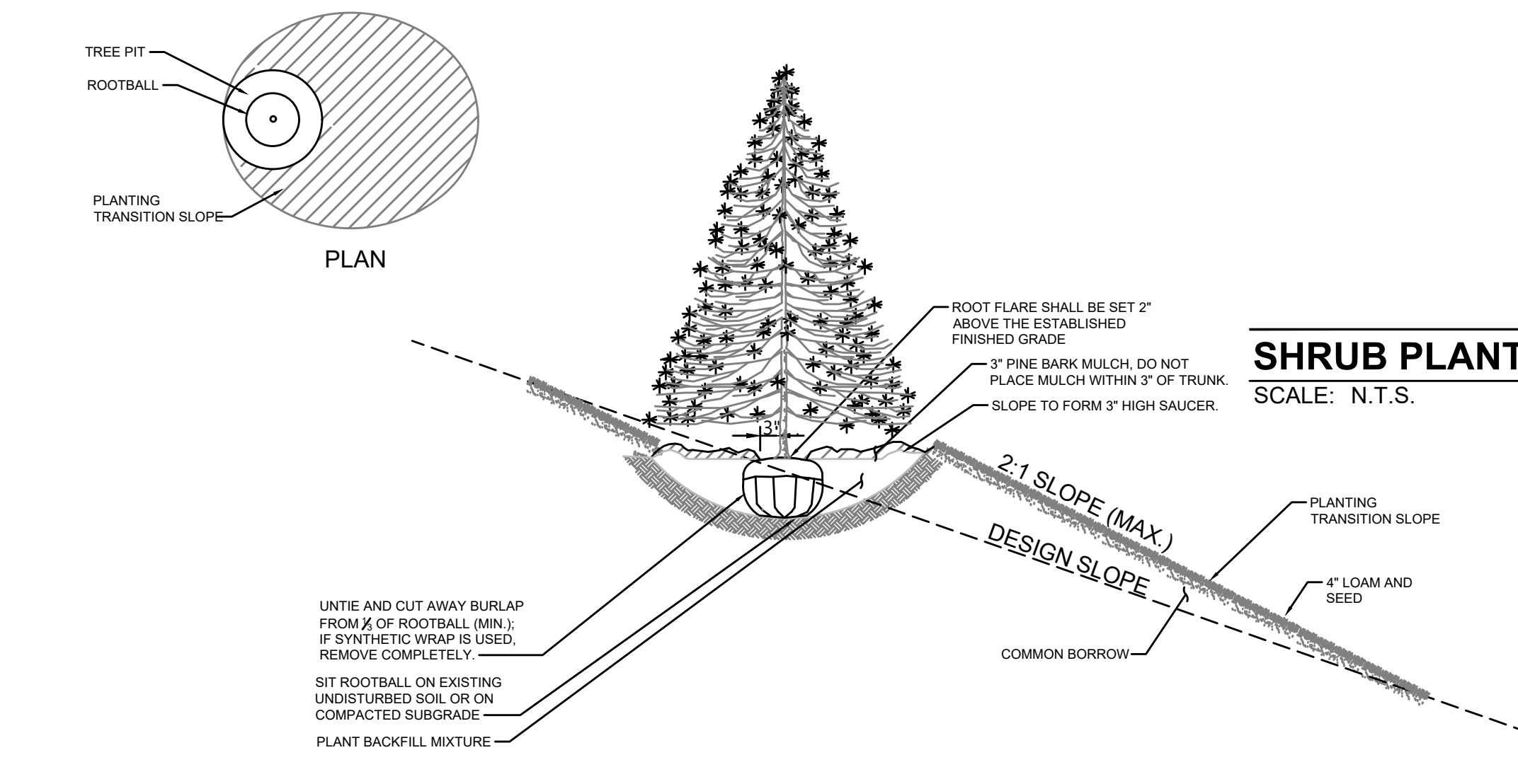
PLANT SPACING("A")	ROW SPACING("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8 1/2 IN. O.C.
12 IN. O.C.	10 1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.
24 IN. O.C.	21 IN. O.C.
30 IN. O.C.	26 IN. O.C.
36 IN. O.C.	30 IN. O.C.
48 IN. O.C.	42 IN. O.C.
54 IN. O.C.	48 IN. O.C.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



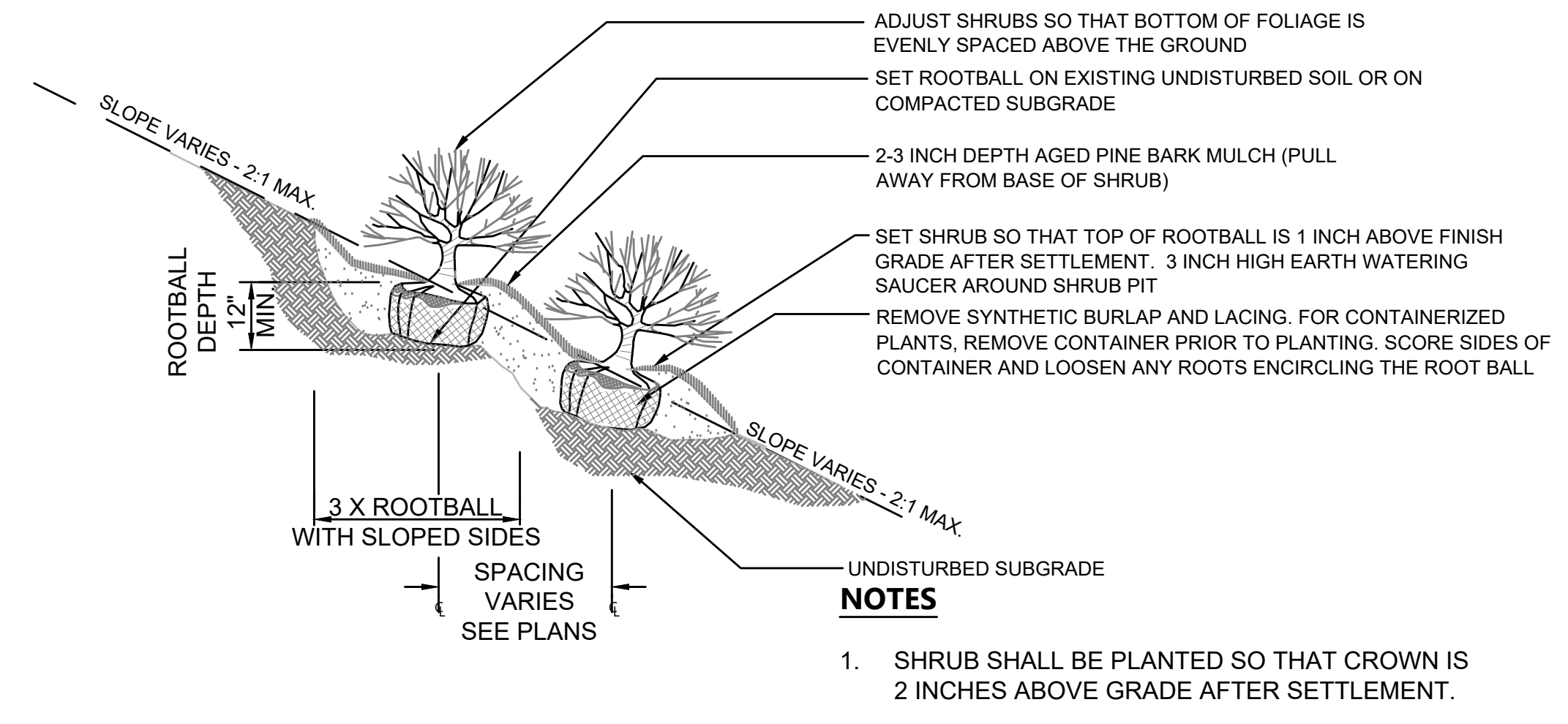
WHISTLE POST OR MILE MARKER DETAIL
SCALE: NTS



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



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

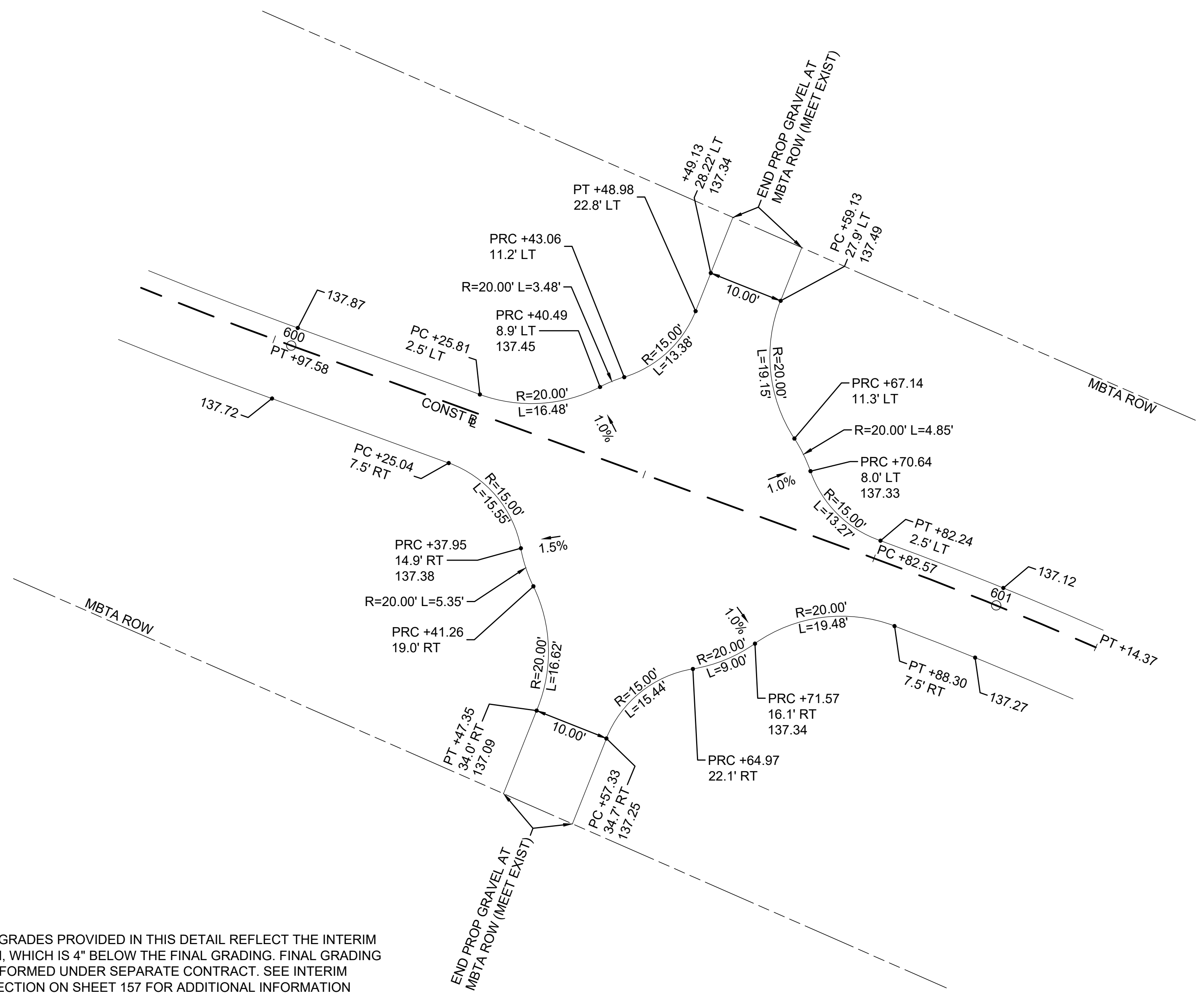


SHRUB PLANTING ON SLOPE
SCALE: N.T.S.

NO.	DESCRIPTION	BY	DATE	APPR.	REVISION	
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
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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
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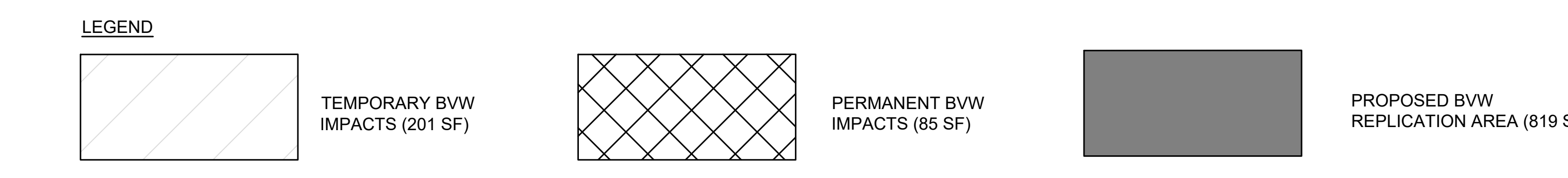
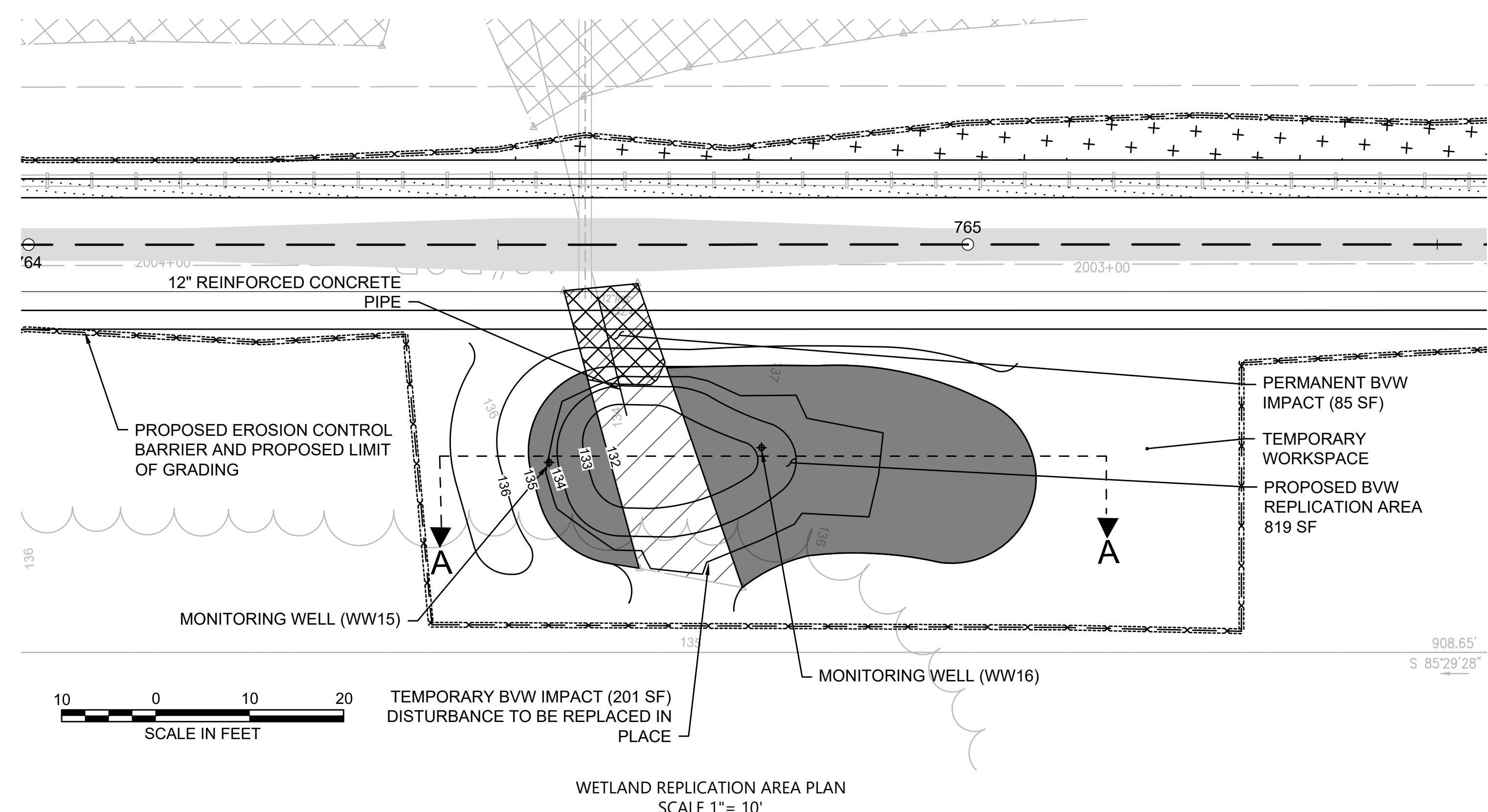
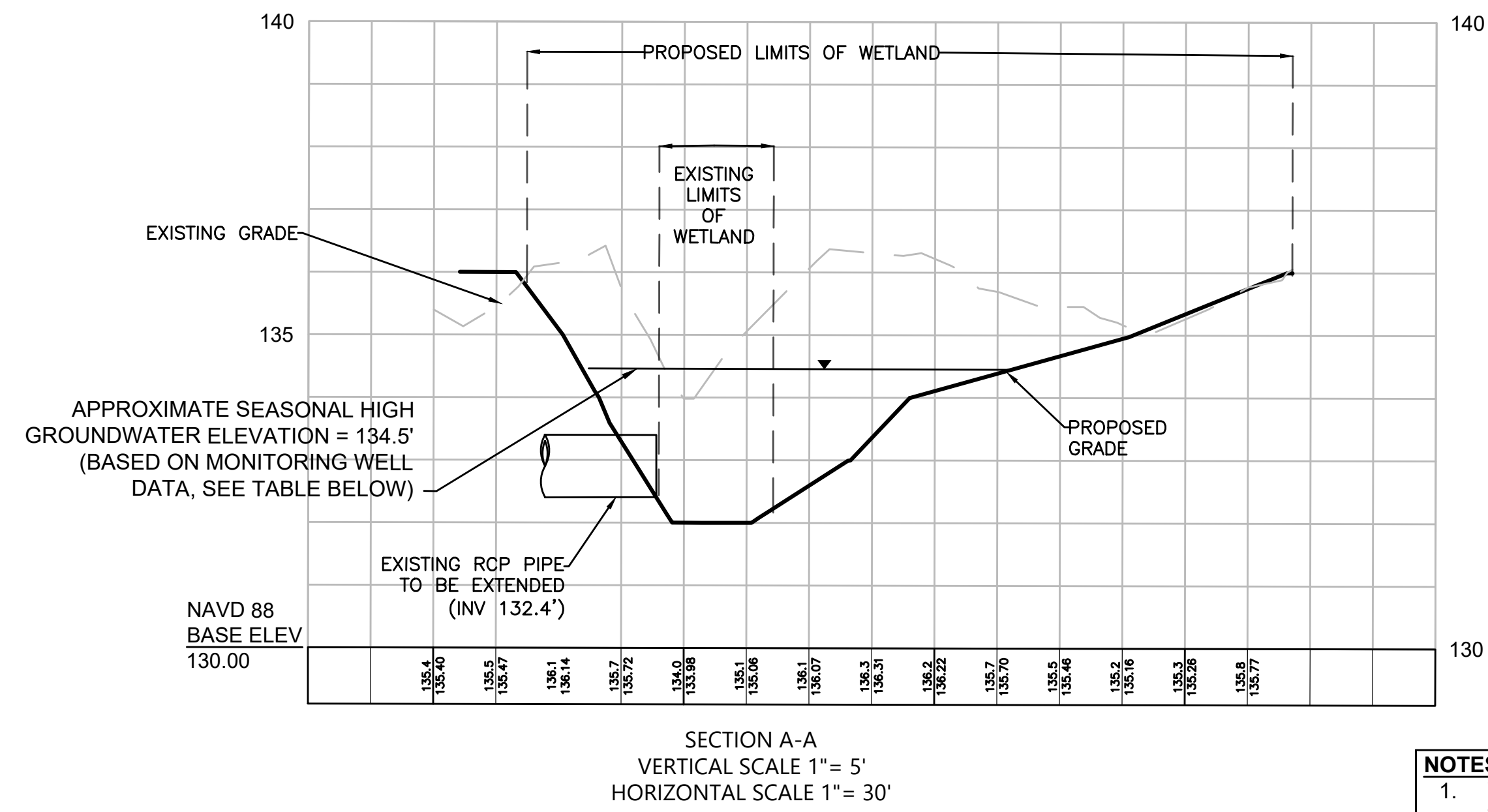
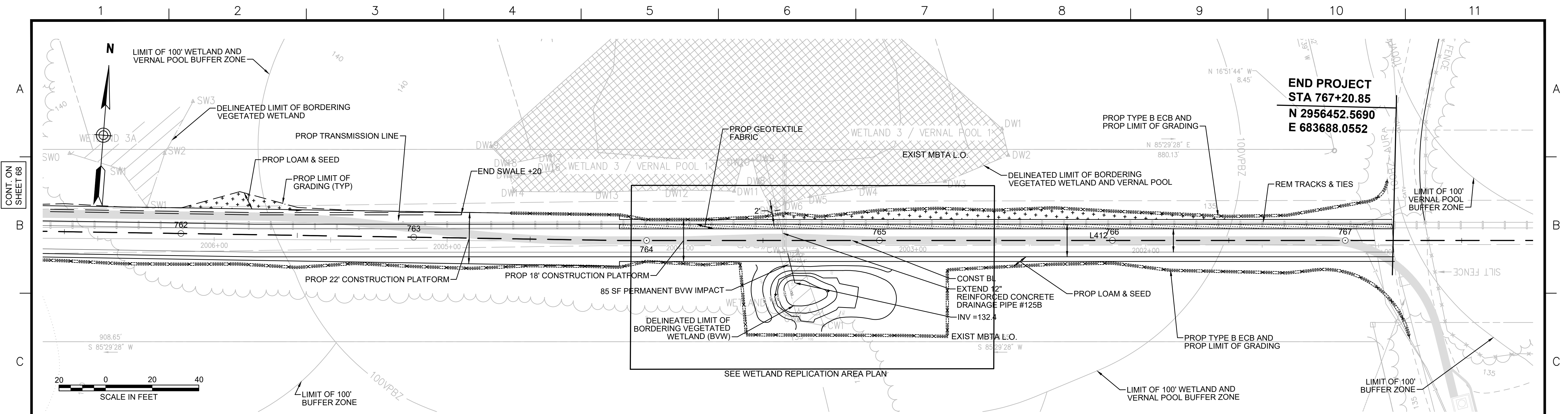
NOTE:
THE SPOT GRADES PROVIDED IN THIS DETAIL REFLECT THE INTERIM
CONDITION, WHICH IS 4" BELOW THE FINAL GRADING. FINAL GRADING
TO BE PERFORMED UNDER SEPARATE CONTRACT. SEE INTERIM
TYPICAL SECTION ON SHEET 157 FOR ADDITIONAL INFORMATION

ROUNDBOUT

SCALE: 1"=10'

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
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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'

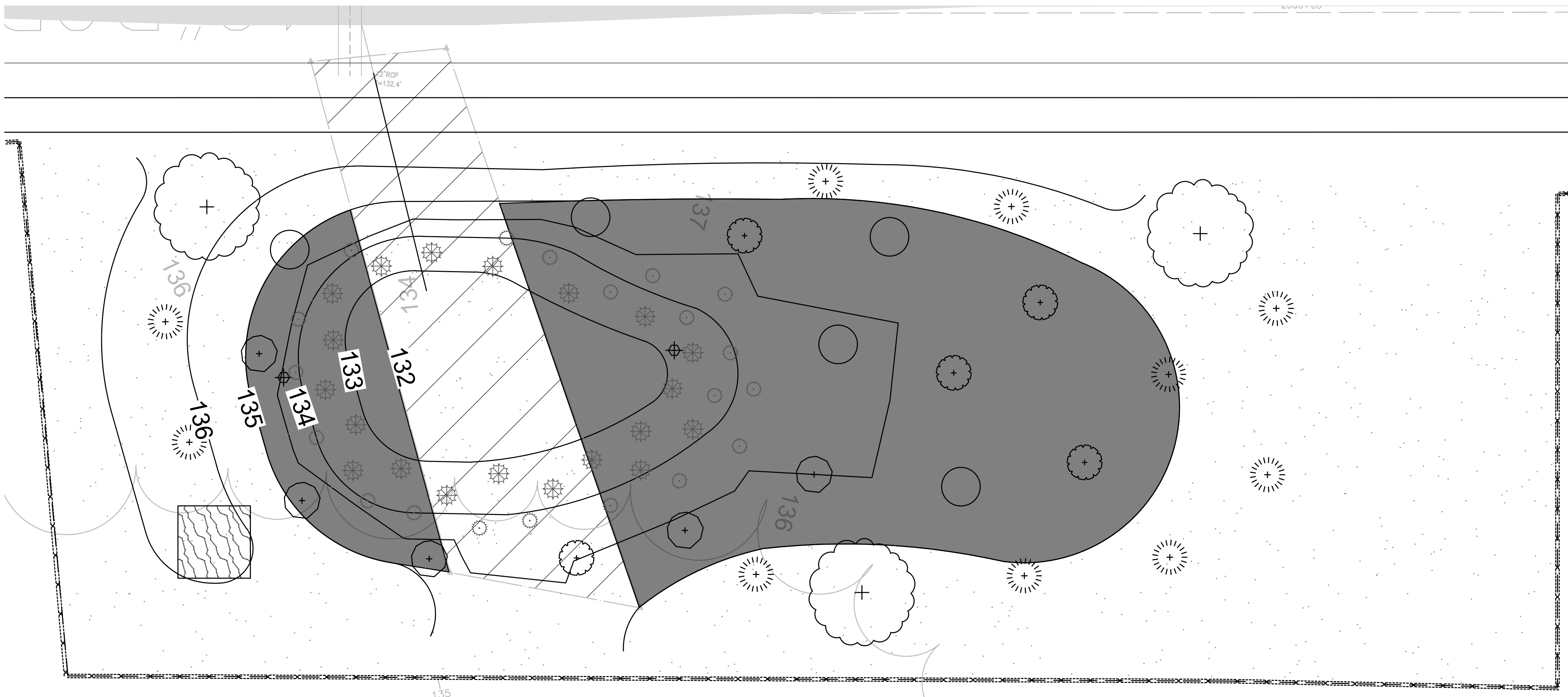
- NOTES:**
1. WETLAND BOUNDARIES SHOWN HEREIN ARE THE SAME AS THOSE SHOWN ON HUDSON AND SUDBURY ANRAD PLANS (2018).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

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

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REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
WETLAND REPLICATION GRADING PLAN				
PLAN 167 OF 347				
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	JAN 2021	MBB	EJM	MAC
DRAWING NO.				REV.

CONT. ON SHEET 68

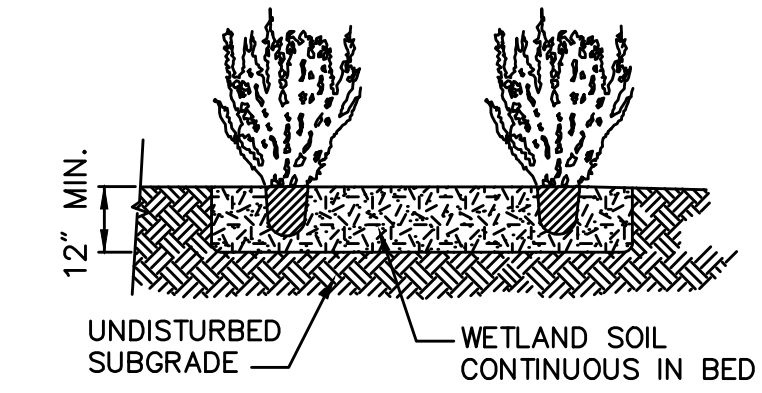
CONT. ON SHEET 68



WETLAND REPLICATION PLANTING PLAN
SCALE 1" = 4'

Specimen	Wetland Status	Plant Type	Plant Size	Quantity	Density/Spacing
Basin Embankment:					
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 ¹	--	Herbaceous	--		18 lb./ac
Surrounding Buffer Zone:					
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 ¹	--	Herbaceous	--		18 lb./ac

¹Wetland 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

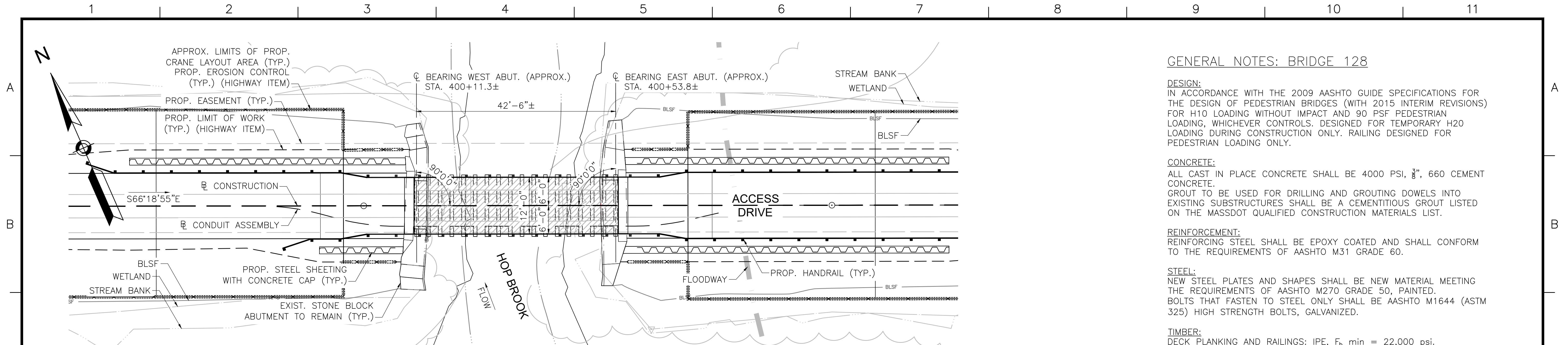
LEGEND

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

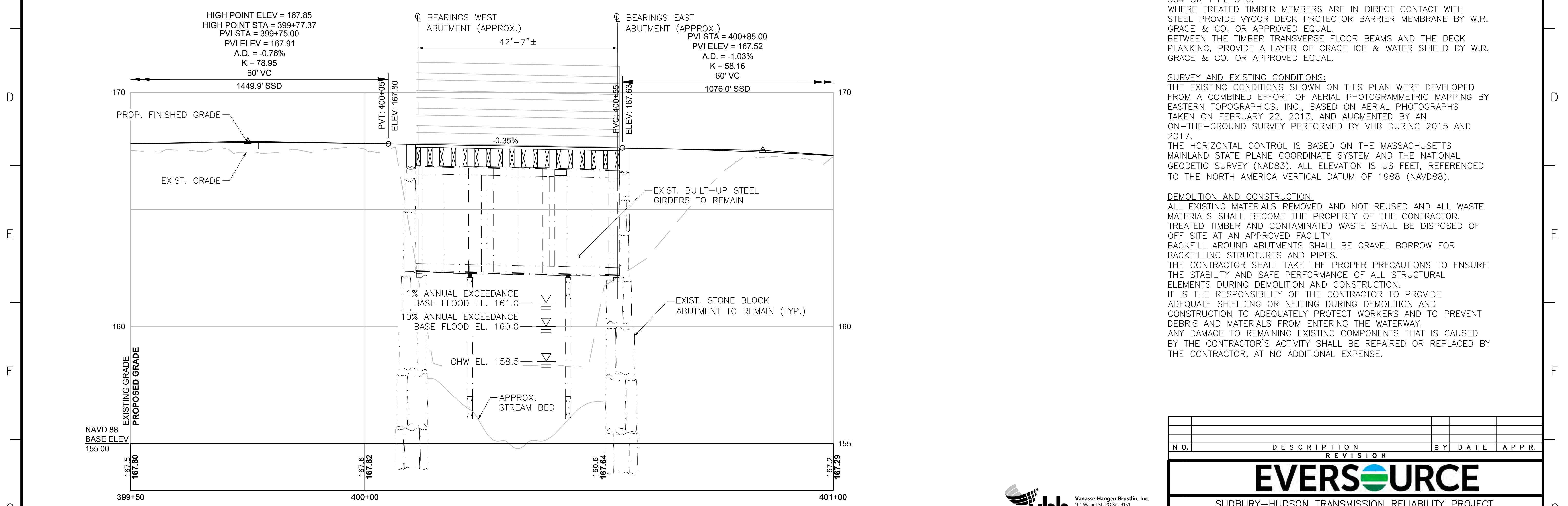
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EVERSOURCE															
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT															
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS															
WETLAND REPLICATION PLANTING PLAN															
PLAN 168 OF 347															
SCALE: unless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

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



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

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

DEMOLITION AND CONSTRUCTION:
 ALL EXISTING MATERIALS REMOVED AND NOT REUSED AND ALL WASTE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TREATED TIMBER AND CONTAMINATED WASTE SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY.
 BACKFILL AROUND ABUTMENTS SHALL BE GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.
 THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING DEMOLITION AND CONSTRUCTION.
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHIELDING 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.



Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.904.1770 FAX 617.924.2286

NO.	DESCRIPTION	BY	DATE	APP.
EVERSOURCE				
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 JAN 2021	DRAWN AMS	CHECKED SBK	APPROVED KGK
DRAWING NO.				REV.

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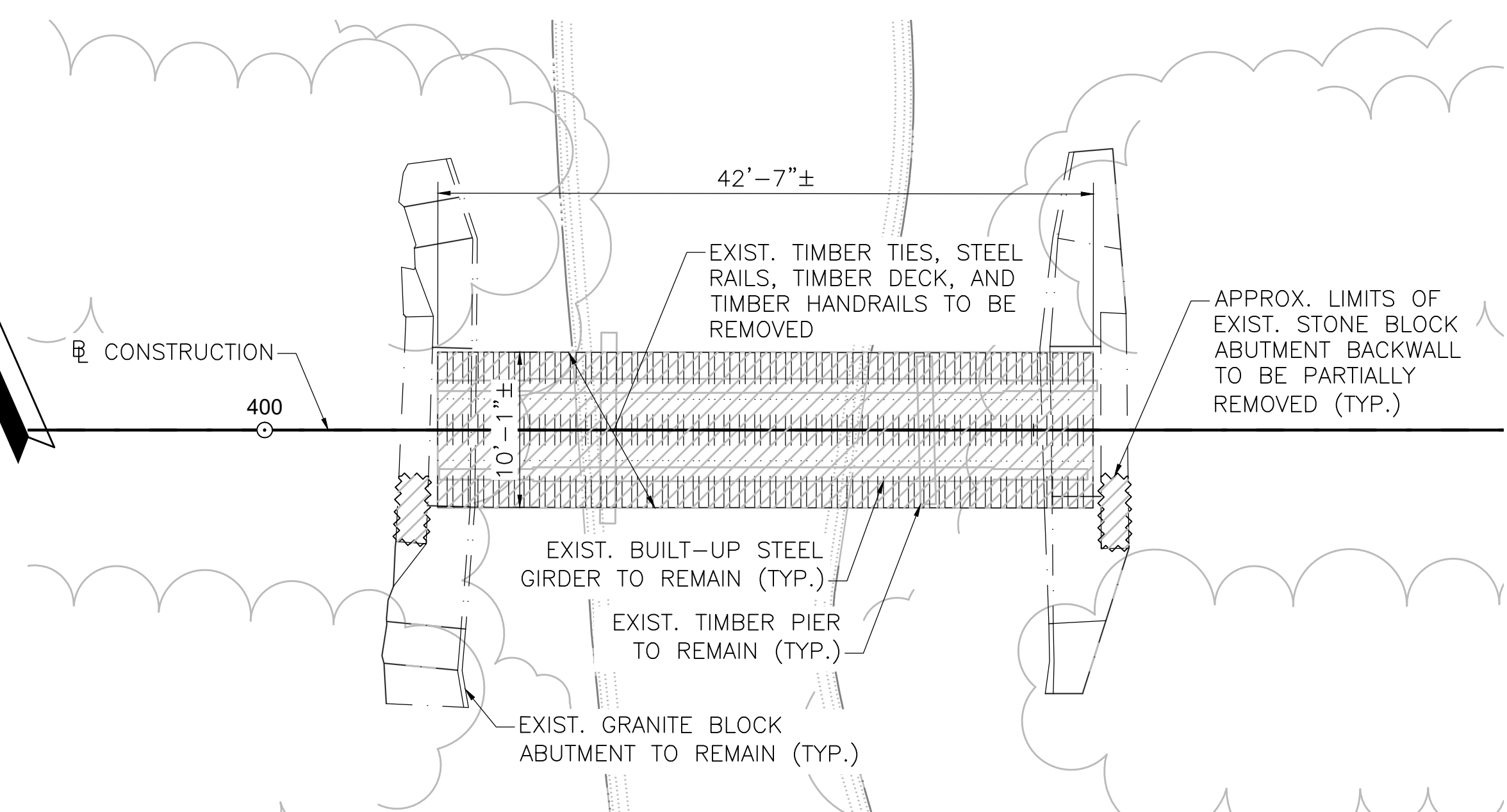
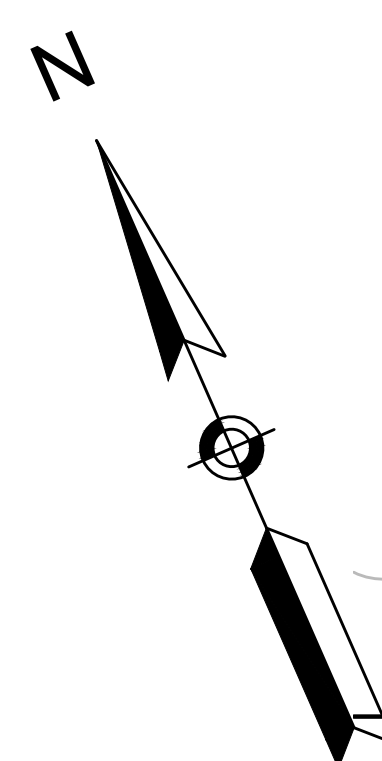
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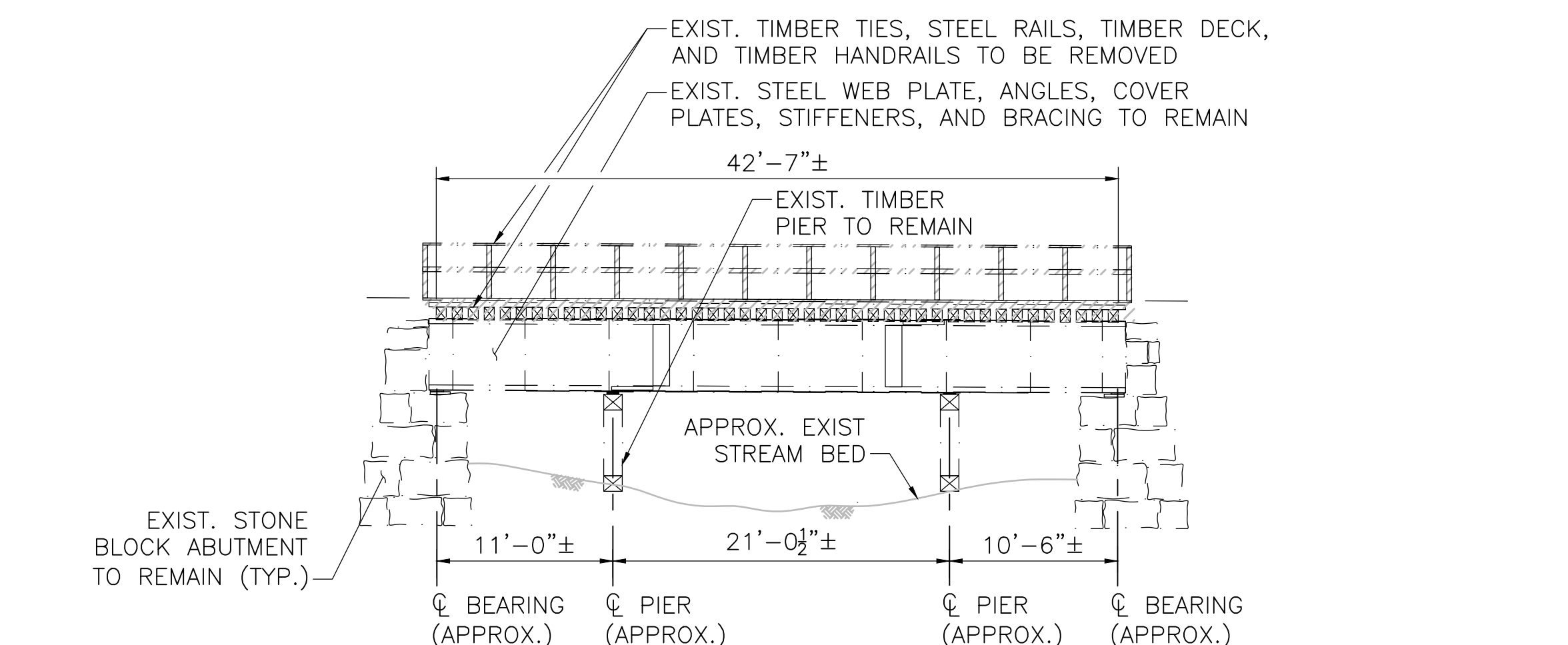
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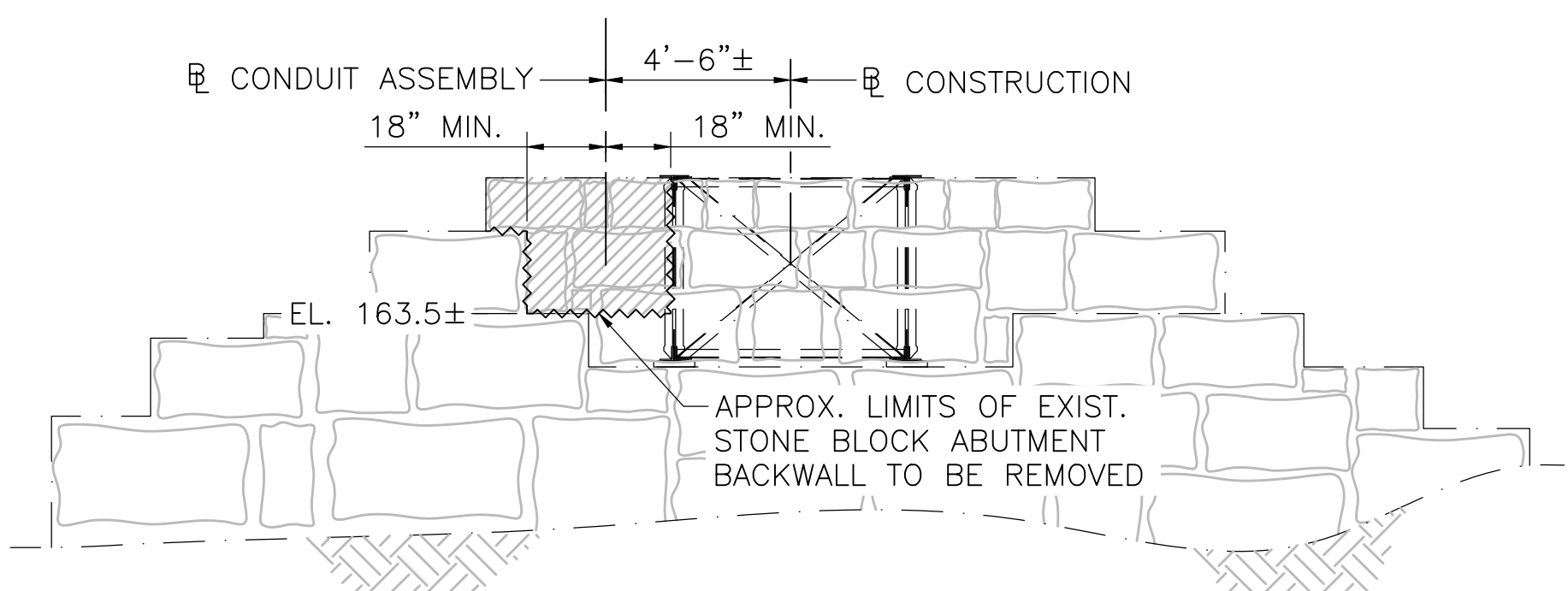
BRIDGE PLAN

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



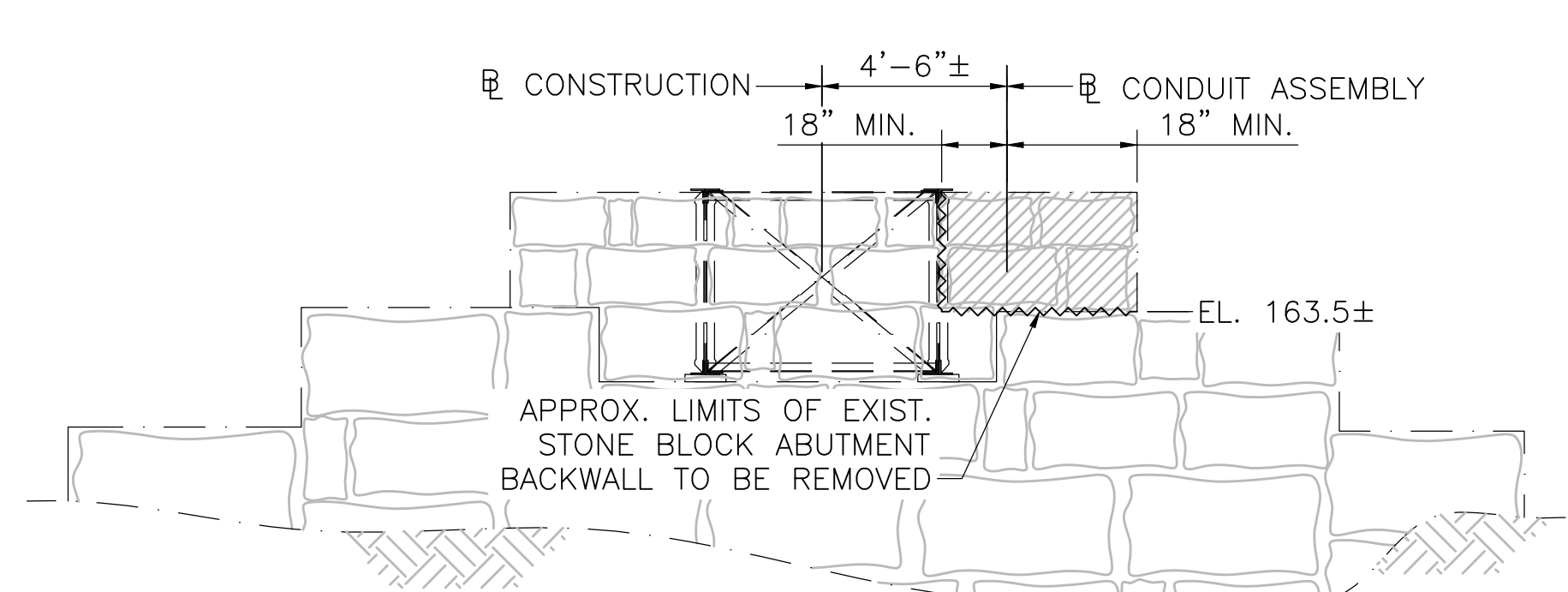
BRIDGE ELEVATION

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



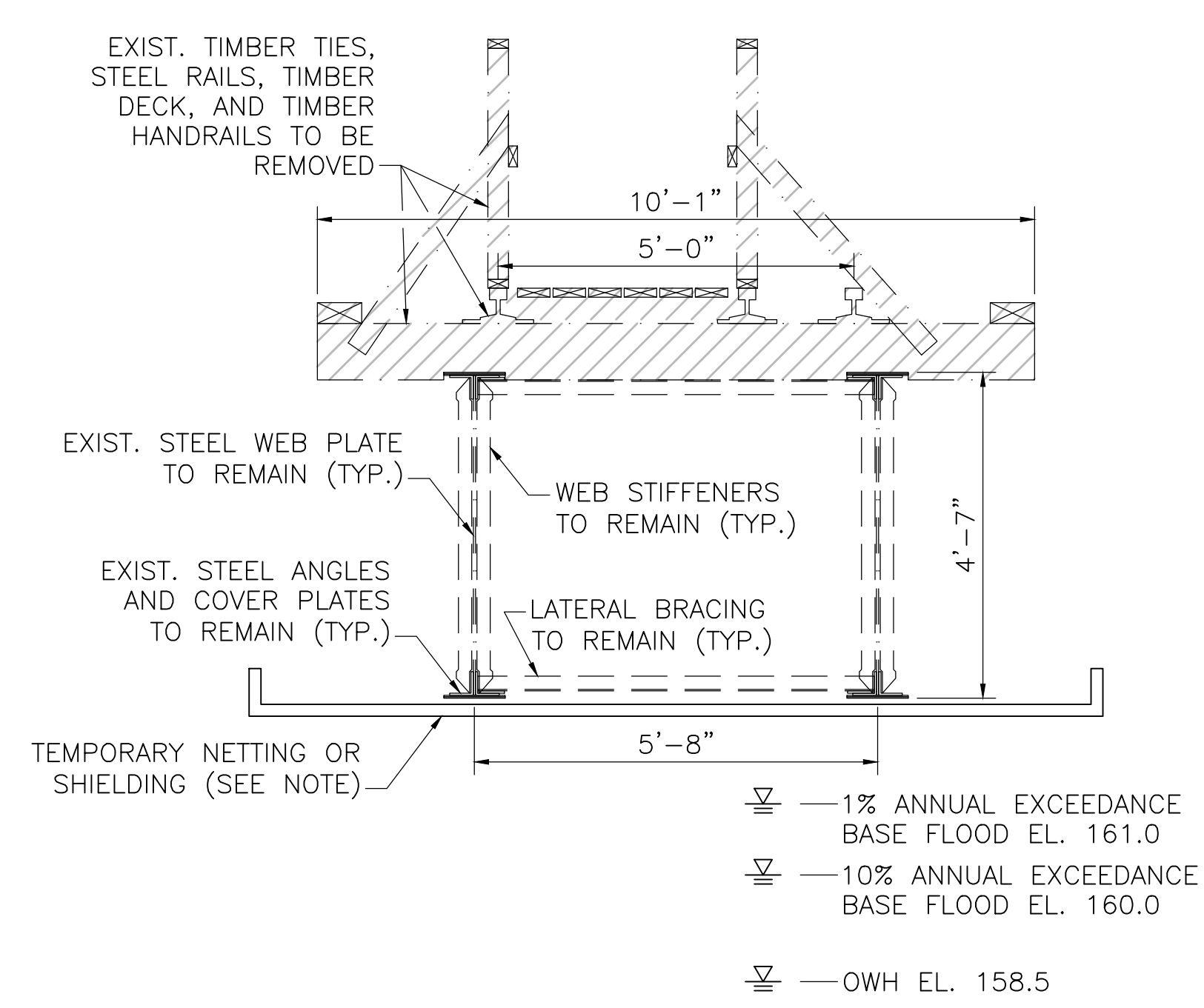
WEST ABUTMENT ELEVATION

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



EAST ABUTMENT ELEVATION

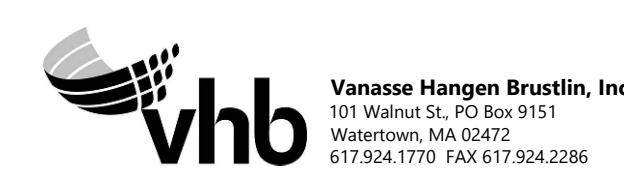
SCALE: 1/4"=1'-0"



BRIDGE TRANSVERSE SECTION

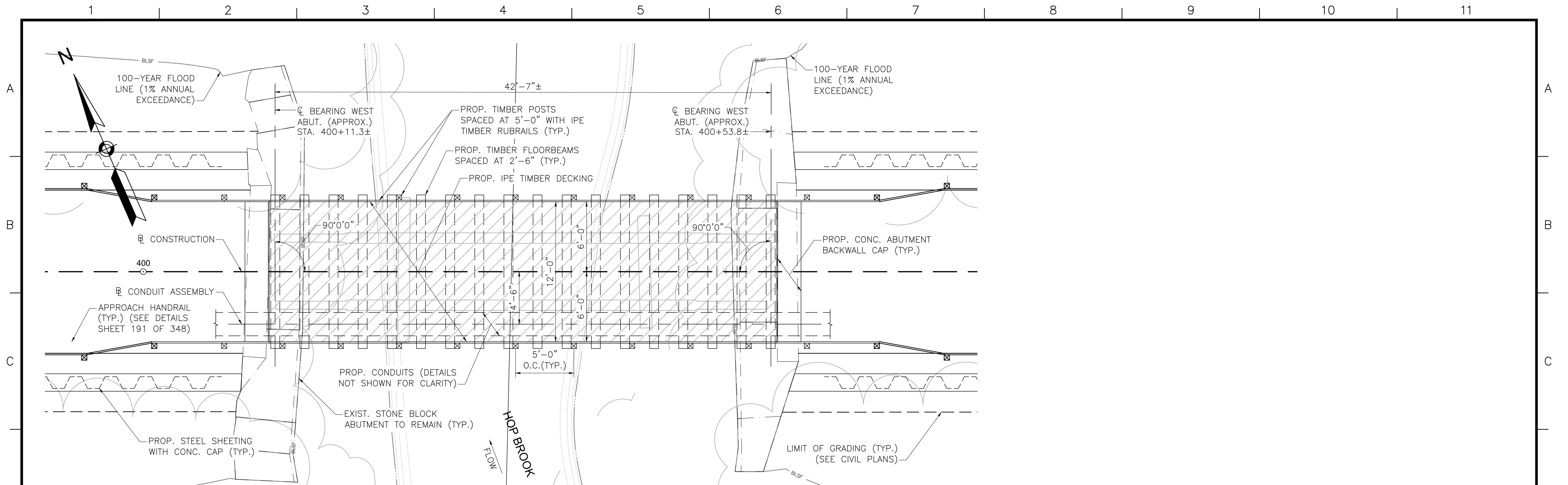
SCALE: 1/2"=1'-0"

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.



N.O.	DESCRIPTION	REVISION	BY	DATE	APPR.
EVERSOURCE					
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	C'H'K D.: SBK	APPR.: KGK	DRAWING NO. REV.

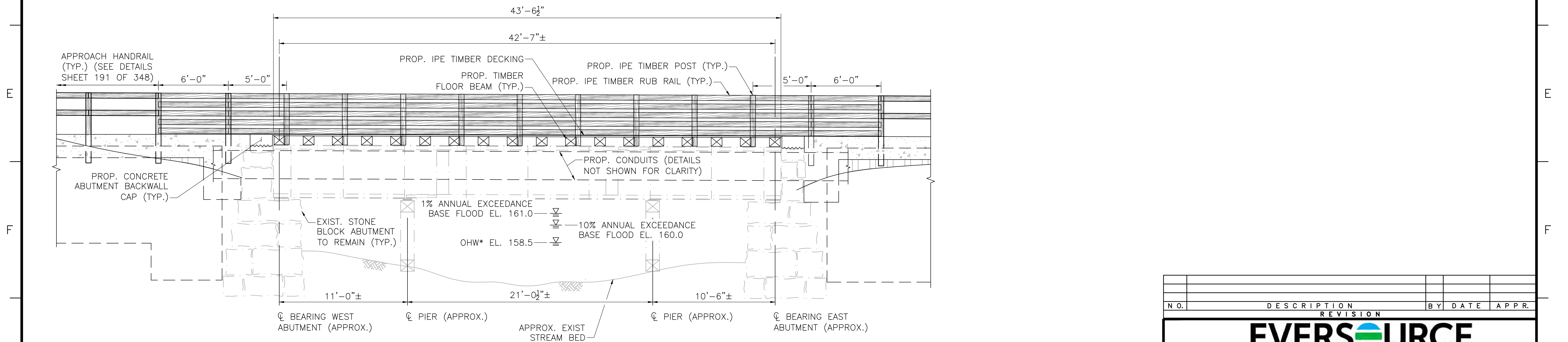
1 2 3 4 5 6 7 8 9 10 11



BRIDGE 128 (HOP BROOK) PLAN

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

*NOTE: OHW = ESTIMATED ORDINARY HIGH WATER



BRIDGE 128 (HOP BROOK) ELEVATION

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



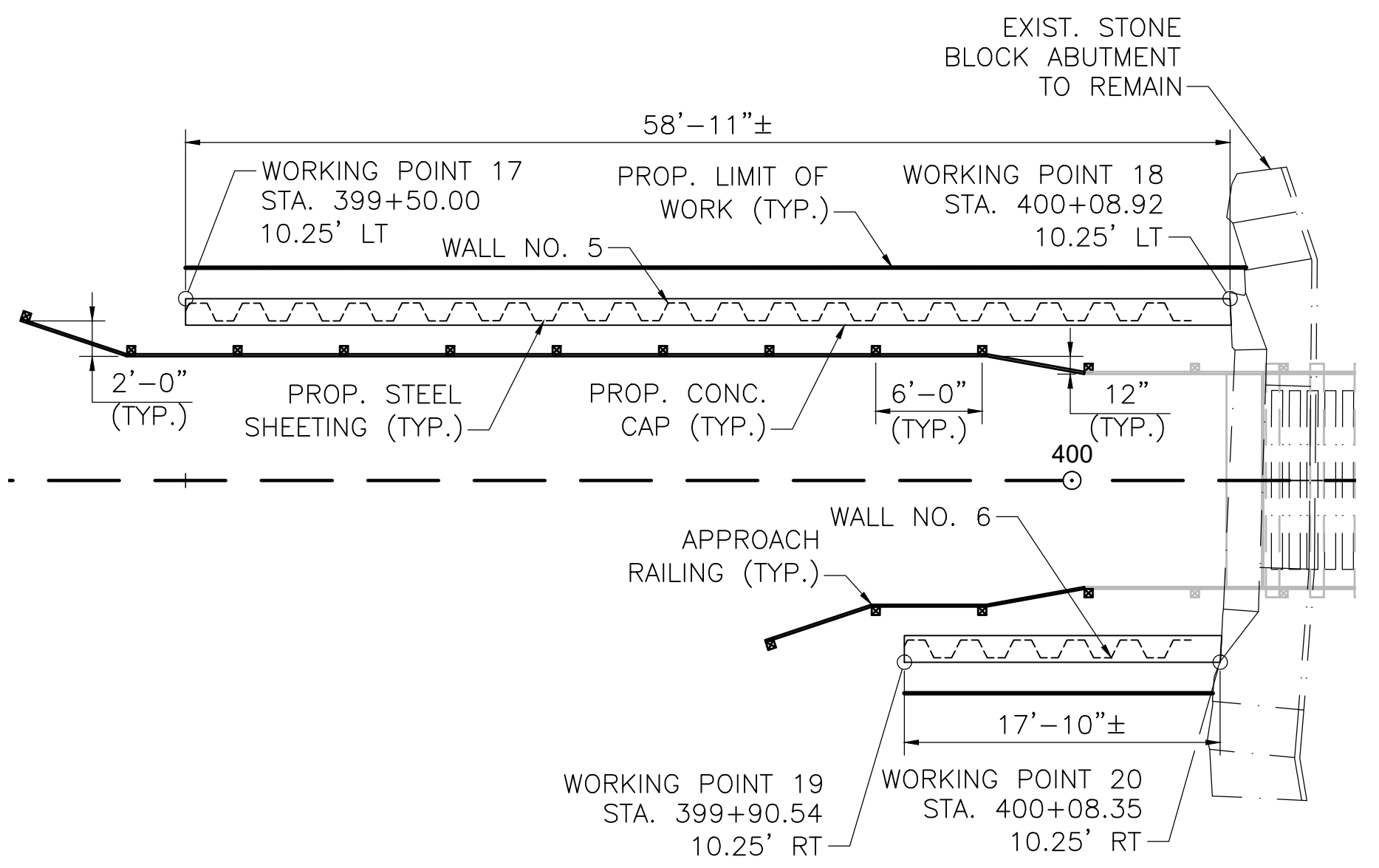
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	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-017 (BRIDGE 128) - PLAN & ELEVATION				
PLAN 90 OF 348				
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	CHECKED SBK	APPR. KGK
	DRAWING NO.	REV.		

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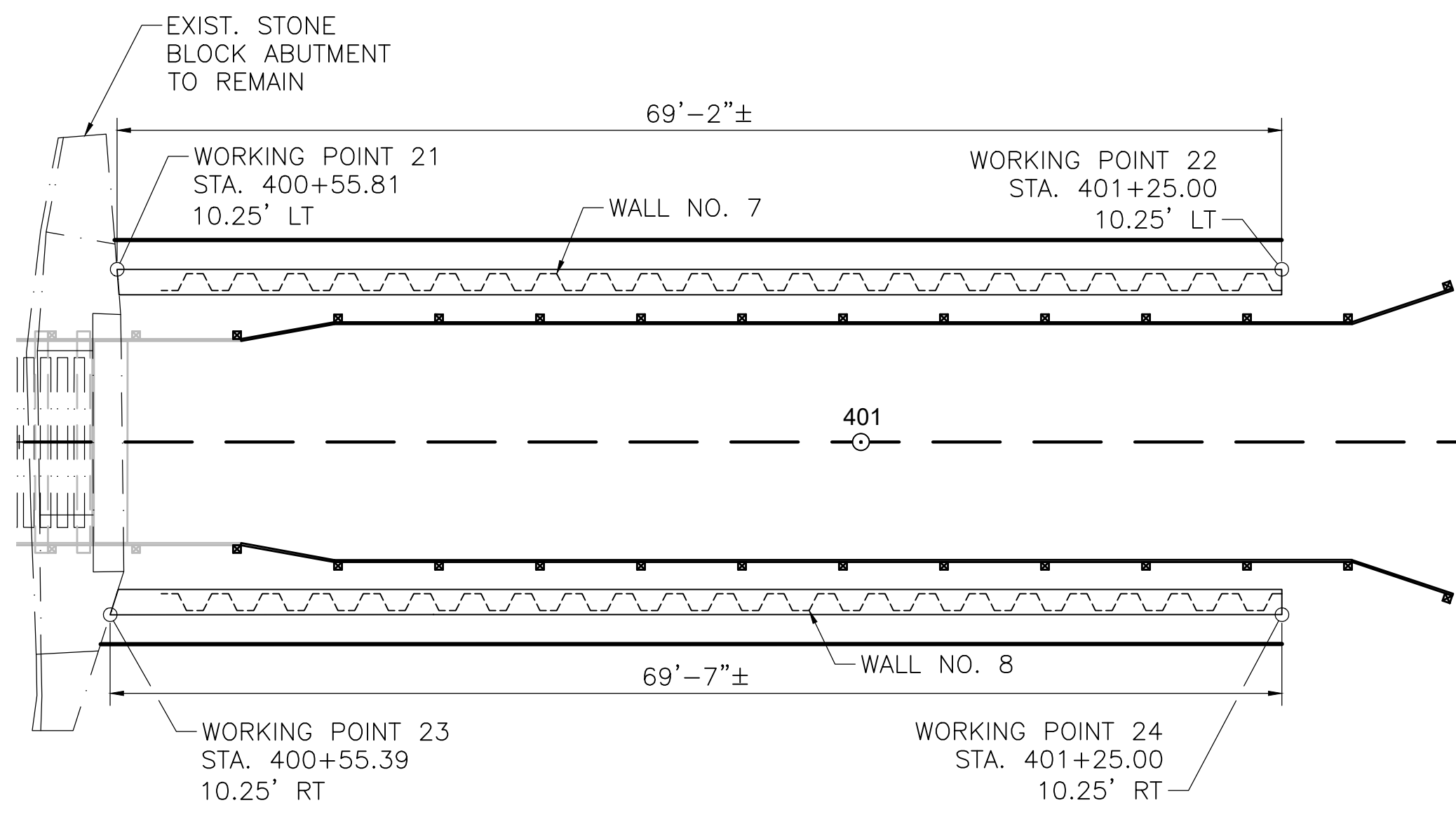
NOTES:

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 IN³ 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.



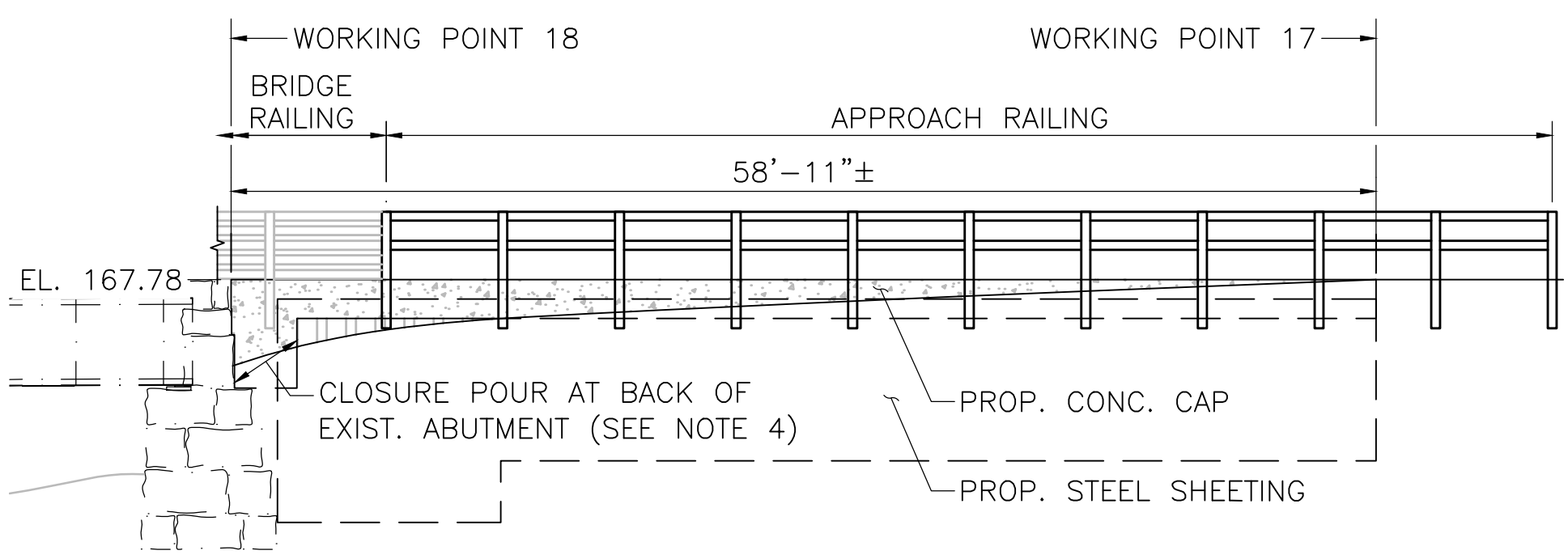
WALL 5 & 6 SHEETING PLAN (WEST APPROACH)

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



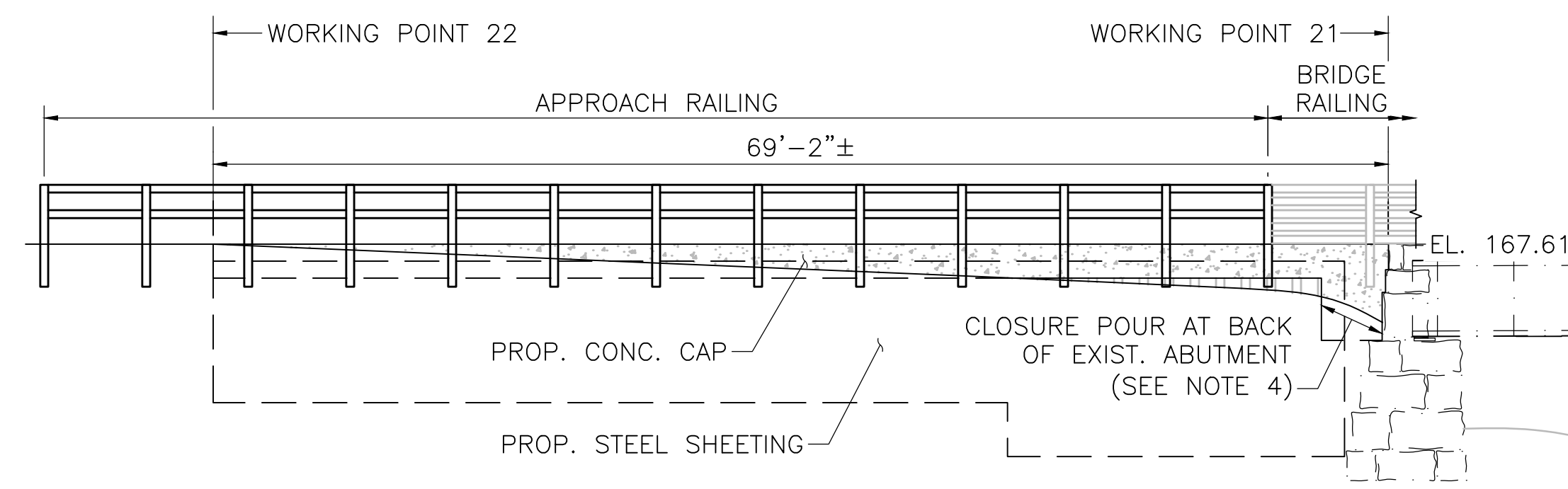
WALL 7 & 8 SHEETING PLAN (EAST APPROACH)

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



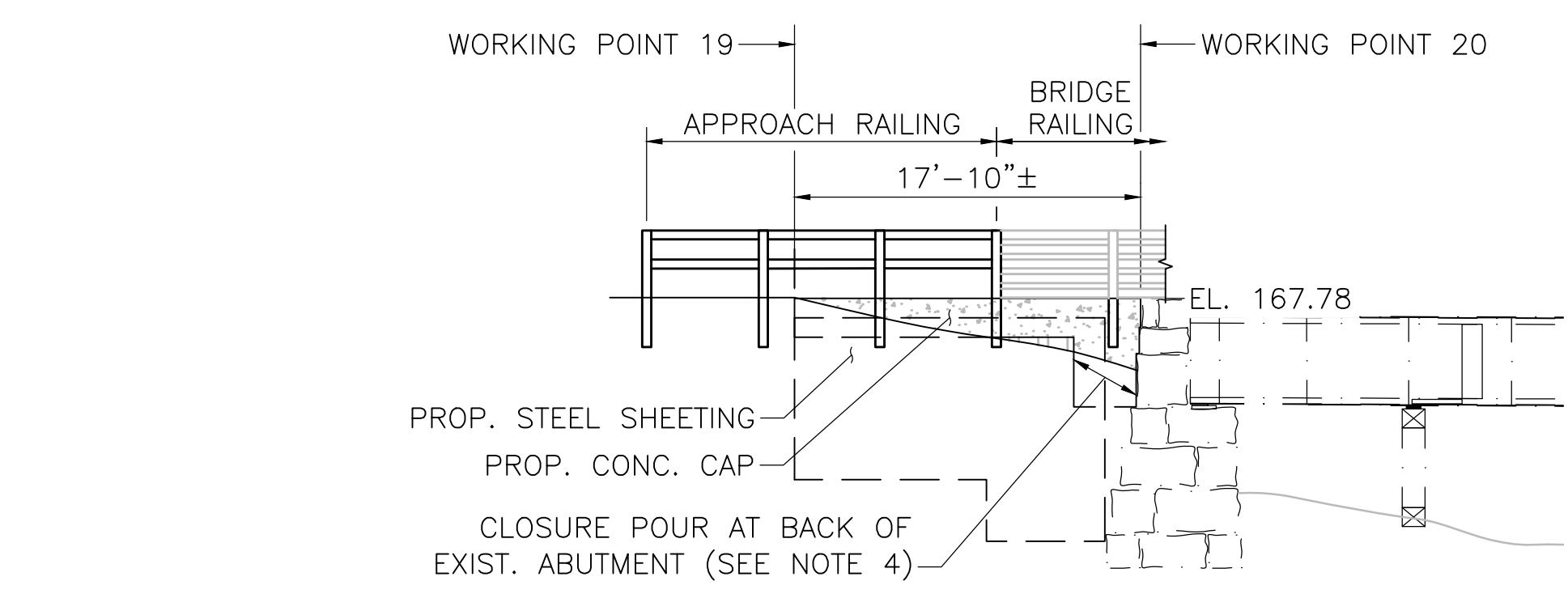
WALL 5 ELEVATION (WEST APPROACH NORTH SHEETING WALL)

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



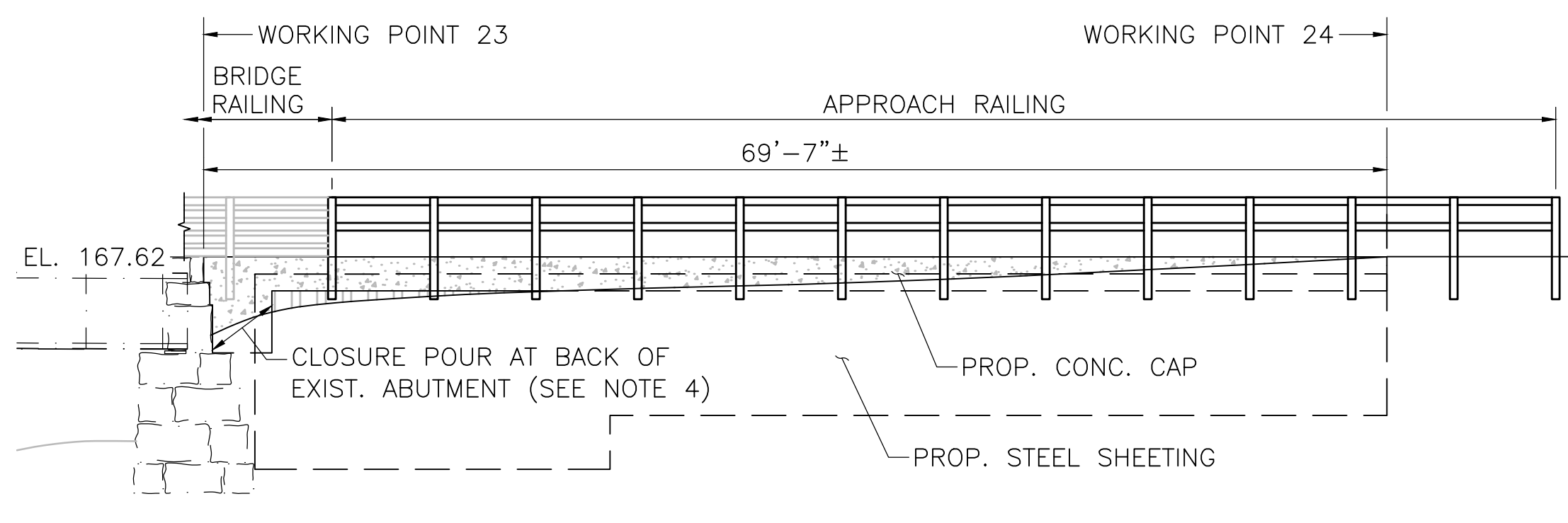
WALL 7 (EAST APPROACH NORTH SHEETING WALL)

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



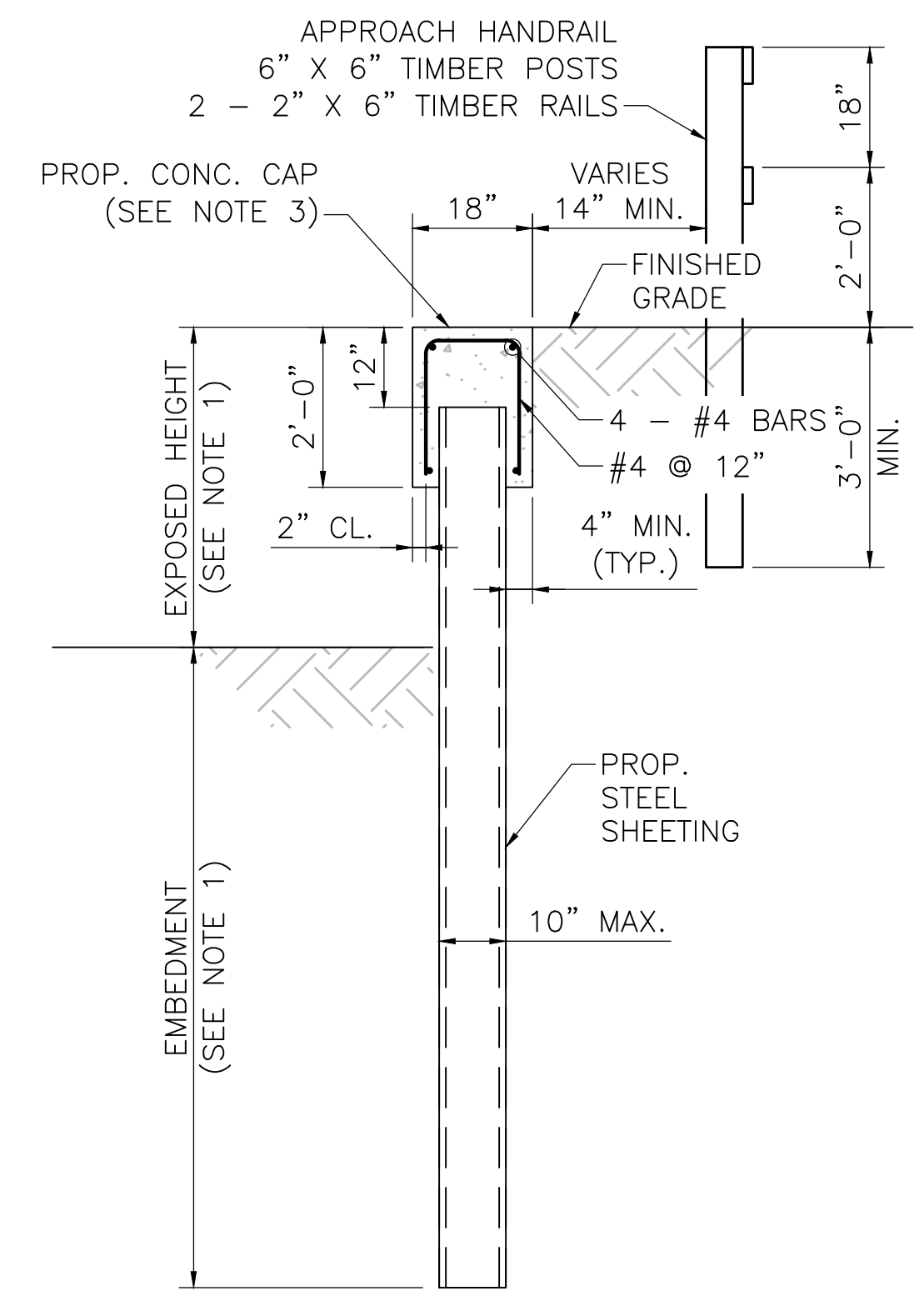
WALL 6 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)

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.)

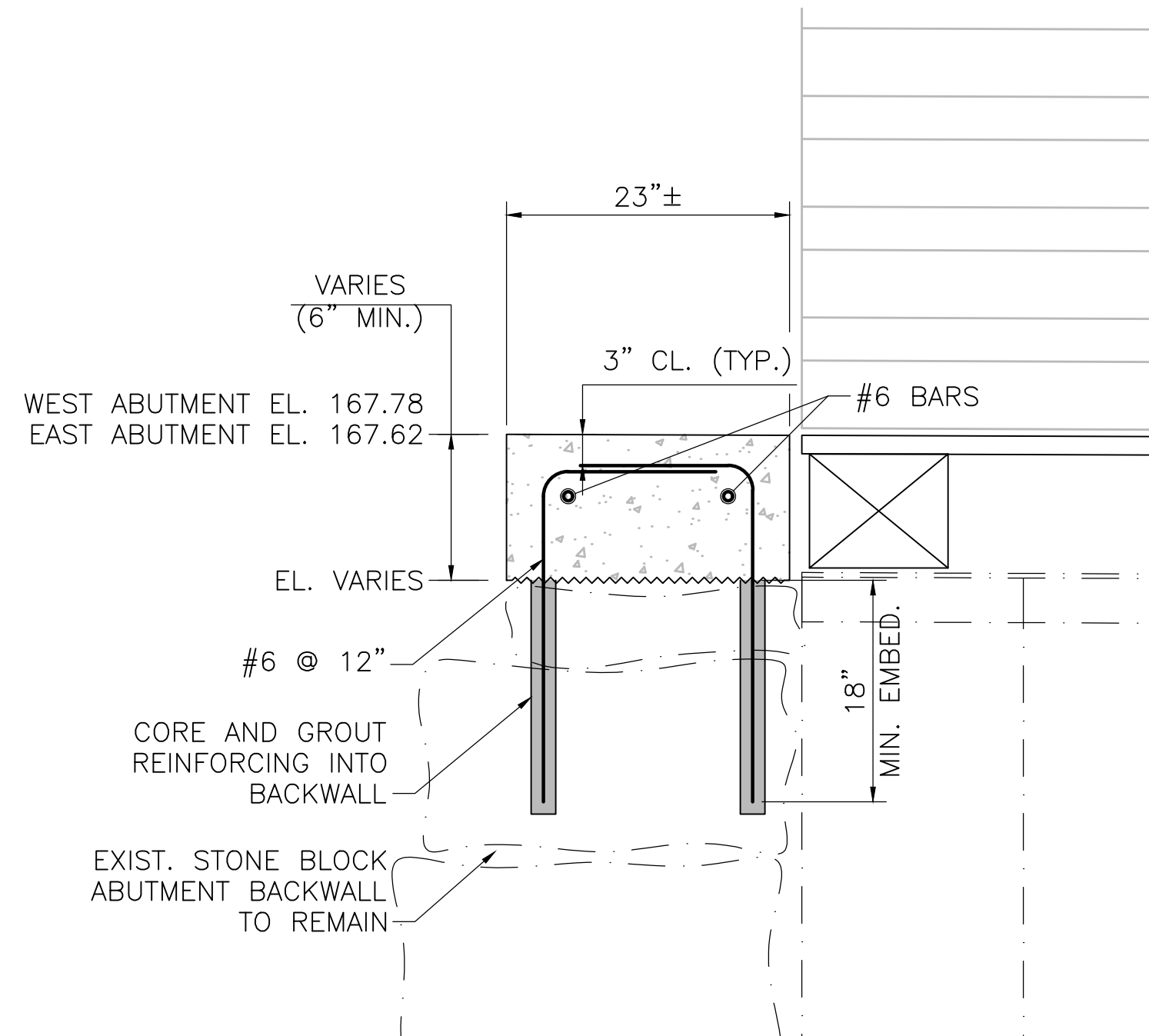
N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE H-25-017 (BRIDGE 128) - SHEETING PLAN				
PLAN191 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN AMS	CHK'D. SBK	APPR. KGK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



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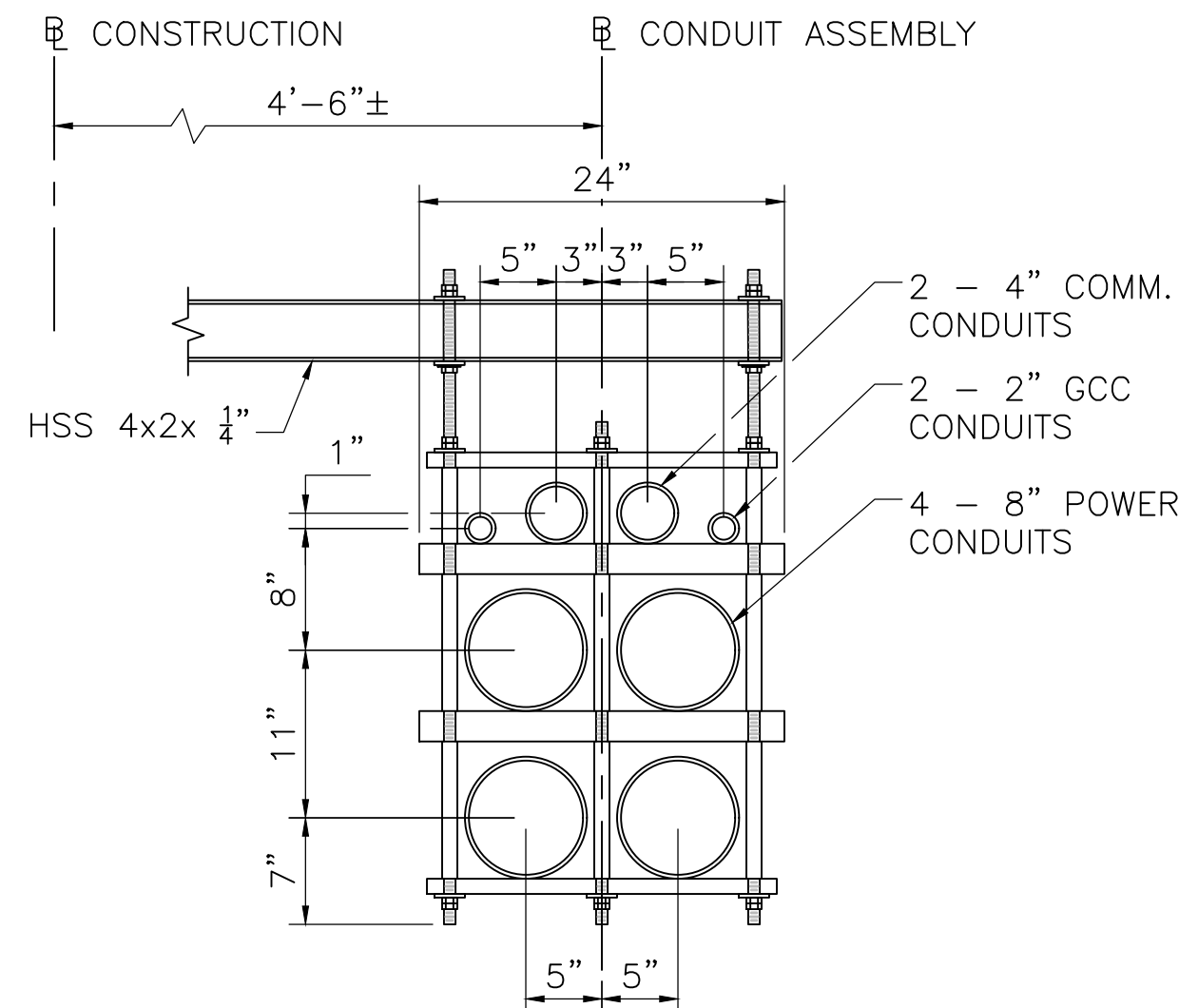
NOTES:

- 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.



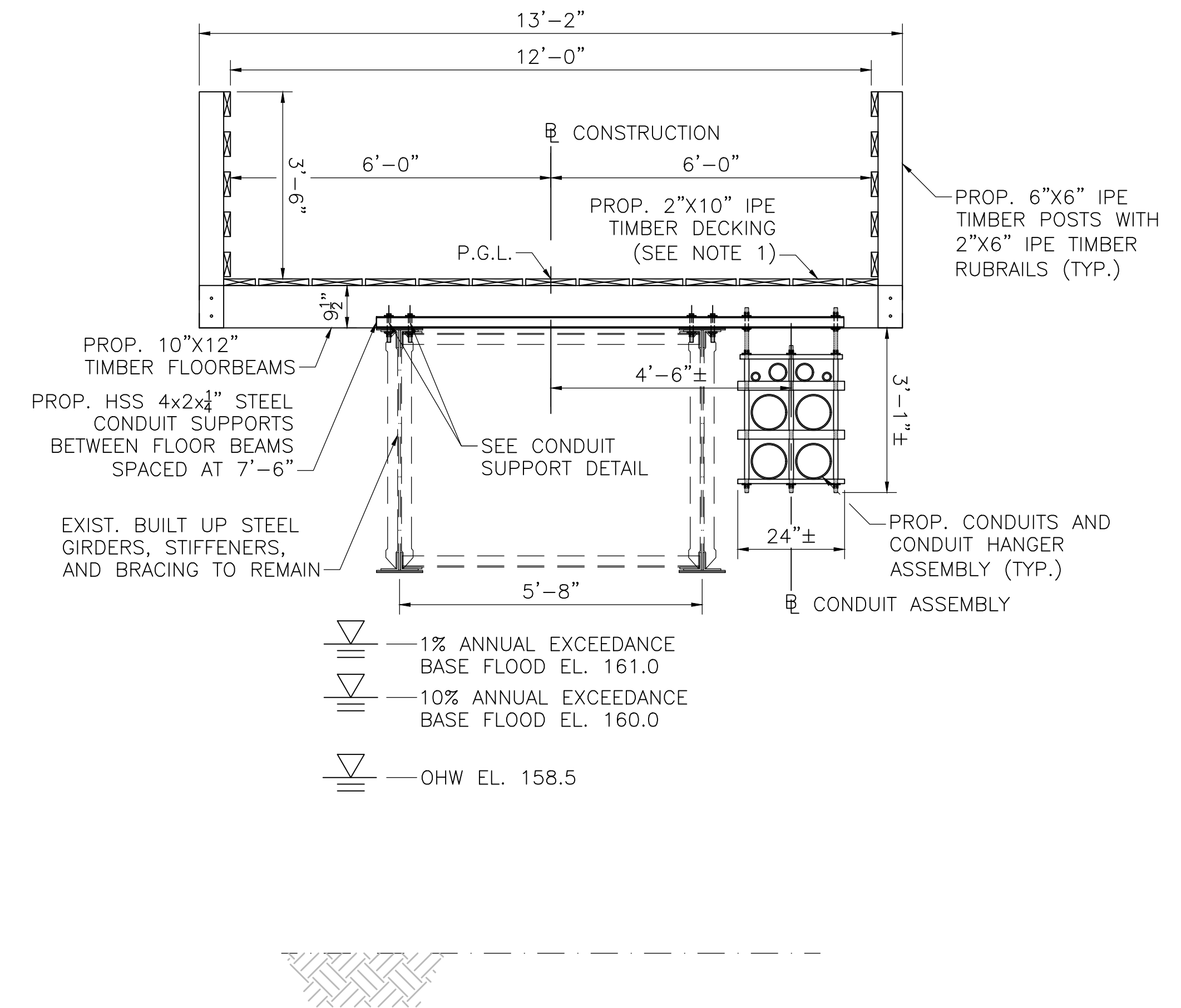
BACKWALL CAP DETAIL

SCALE: 1"=1'-0"



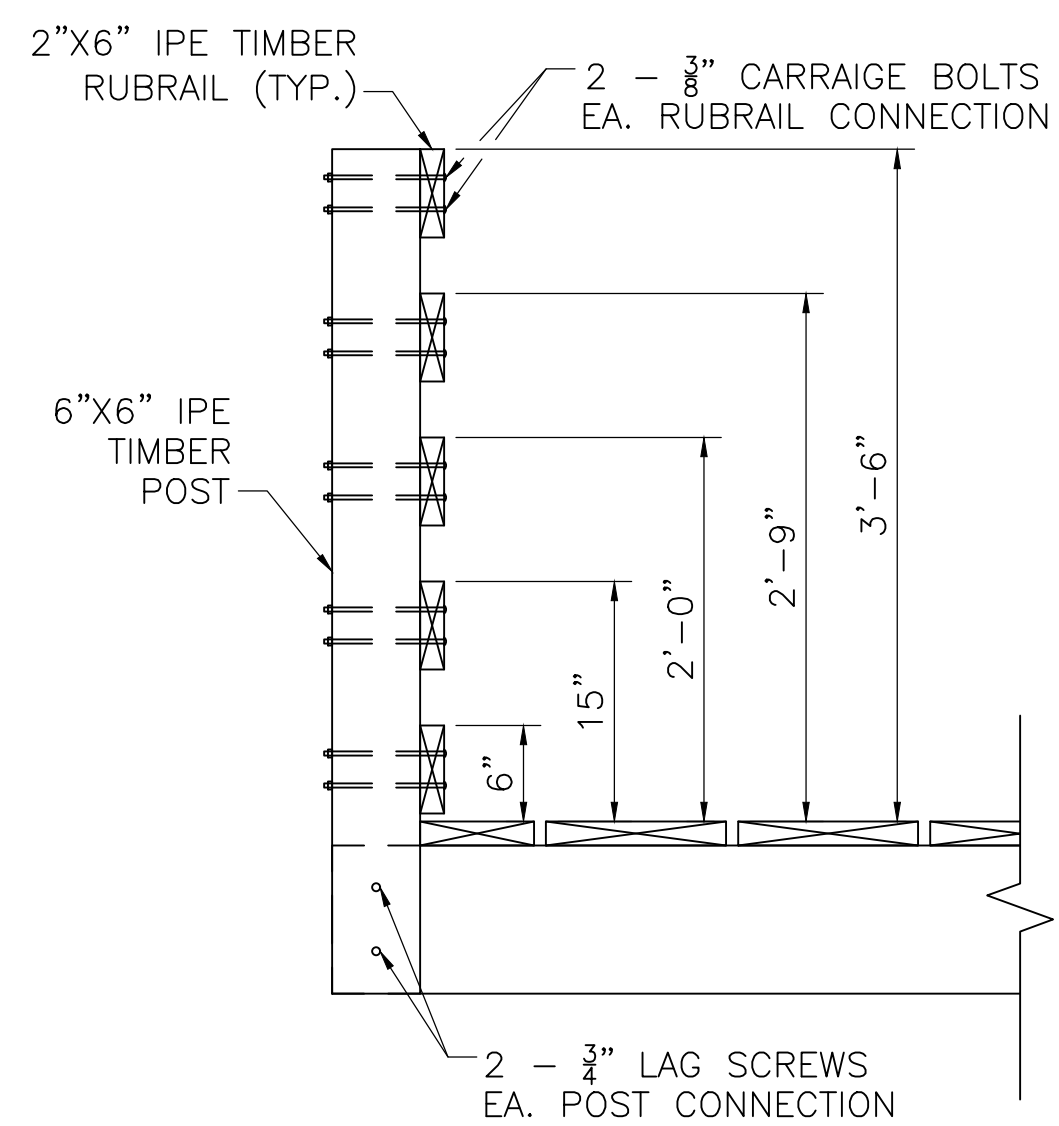
CONDUIT ASSEMBLY DETAIL

SCALE: 1"=1'-0"



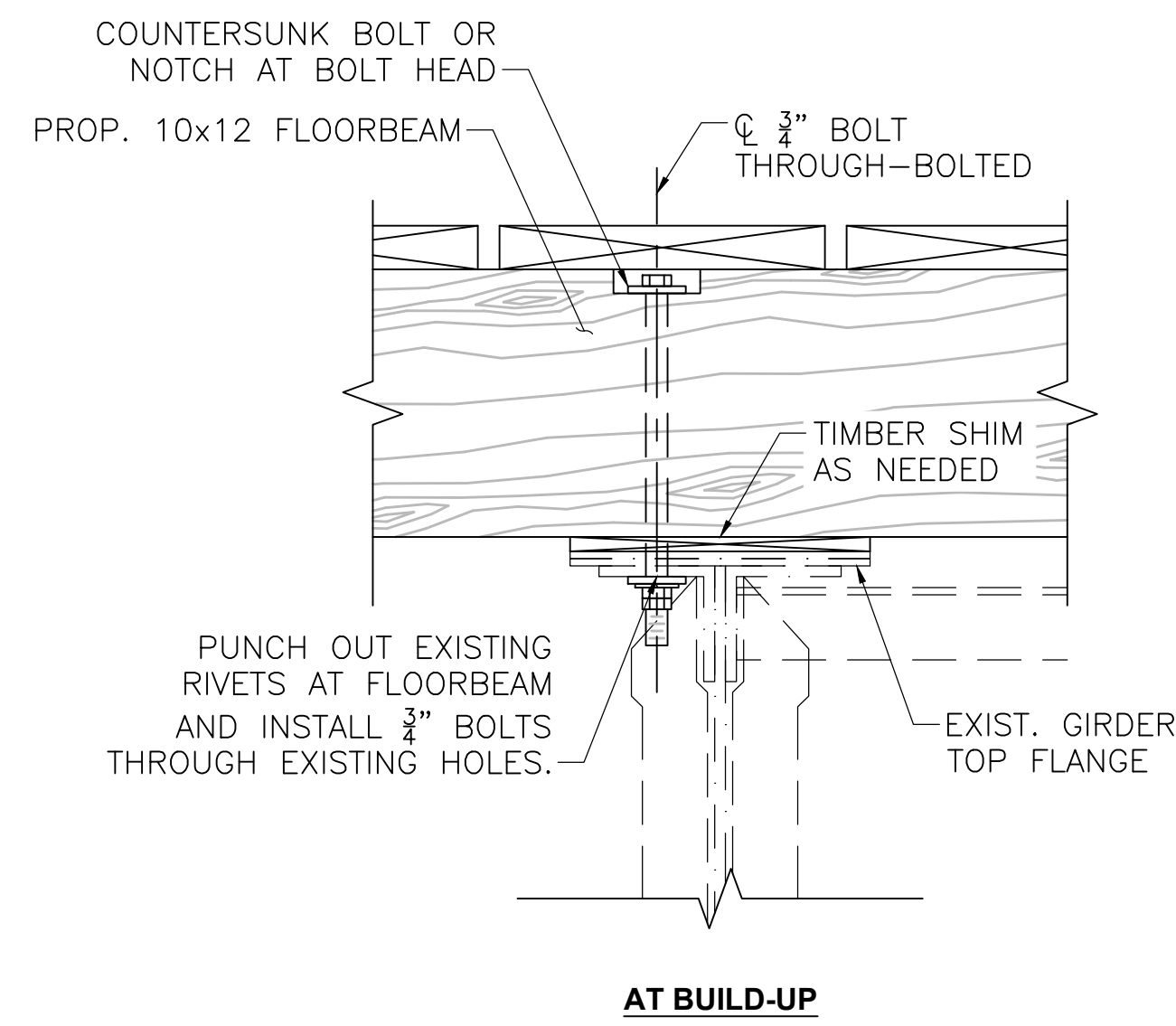
BRIDGE TRANSVERSE SECTION

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



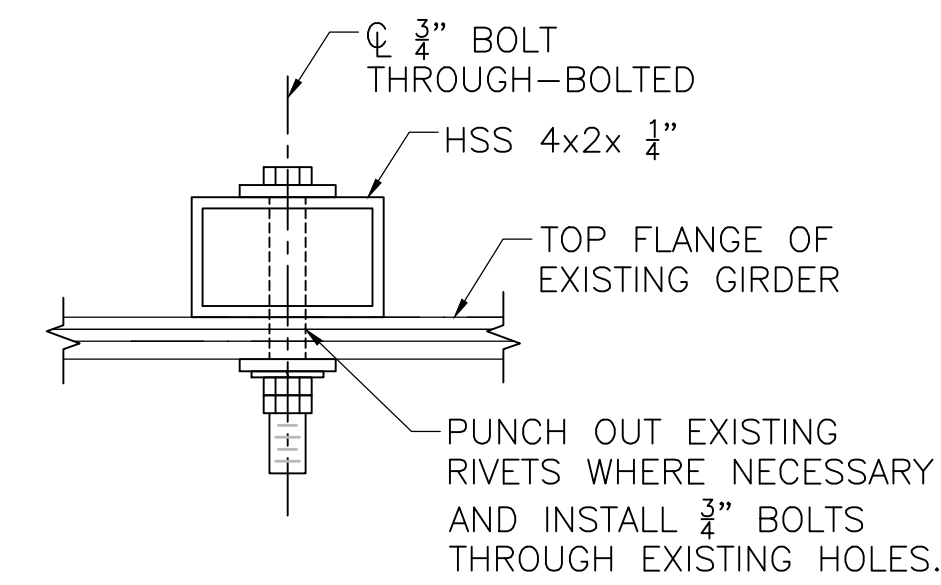
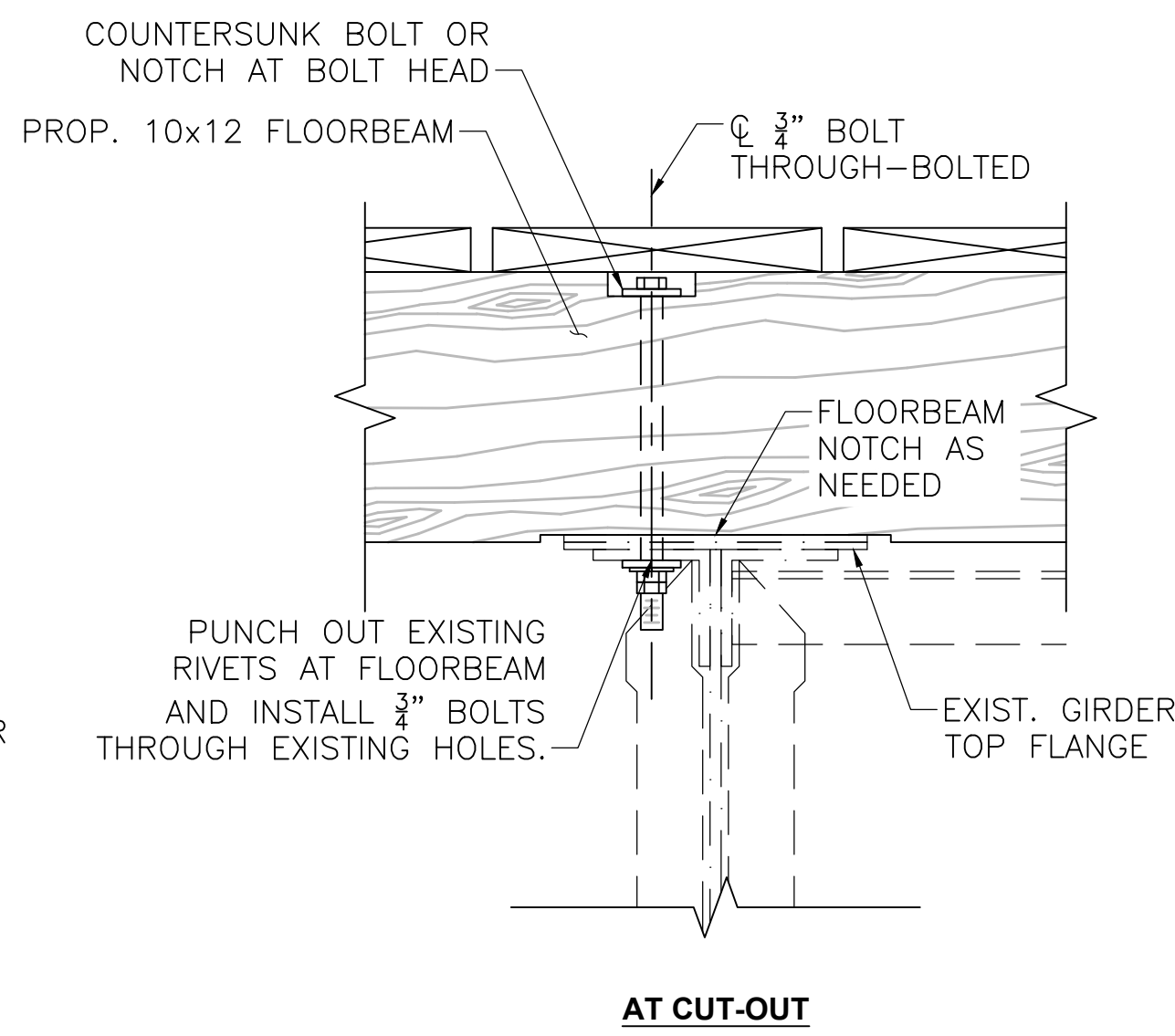
RAILING CONNECTION DETAIL

SCALE: 1"=1'-0"



FLOORBEAM CONNECTION DETAIL

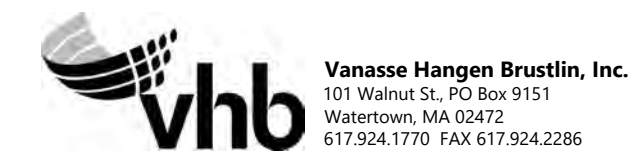
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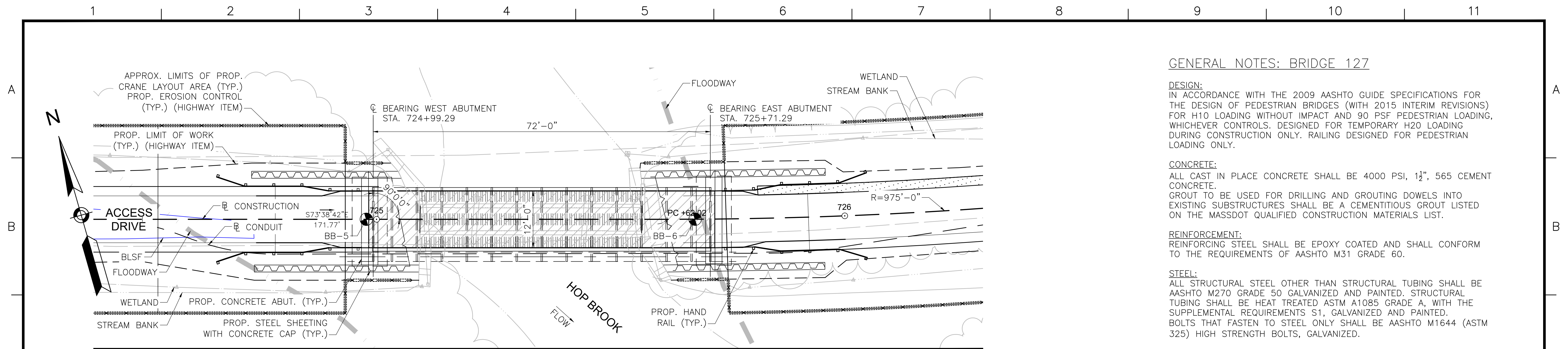
CONDUIT SUPPORT DETAIL

SCALE: 3"=1'-0"

REVISION			
N.O.	DESCRIPTION	BY	DATE
EVERSOURCE			
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
VARIES	JAN 2021	AMS	SBK
		APPR.	KGK
DRAWING NO.	REV.		



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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.

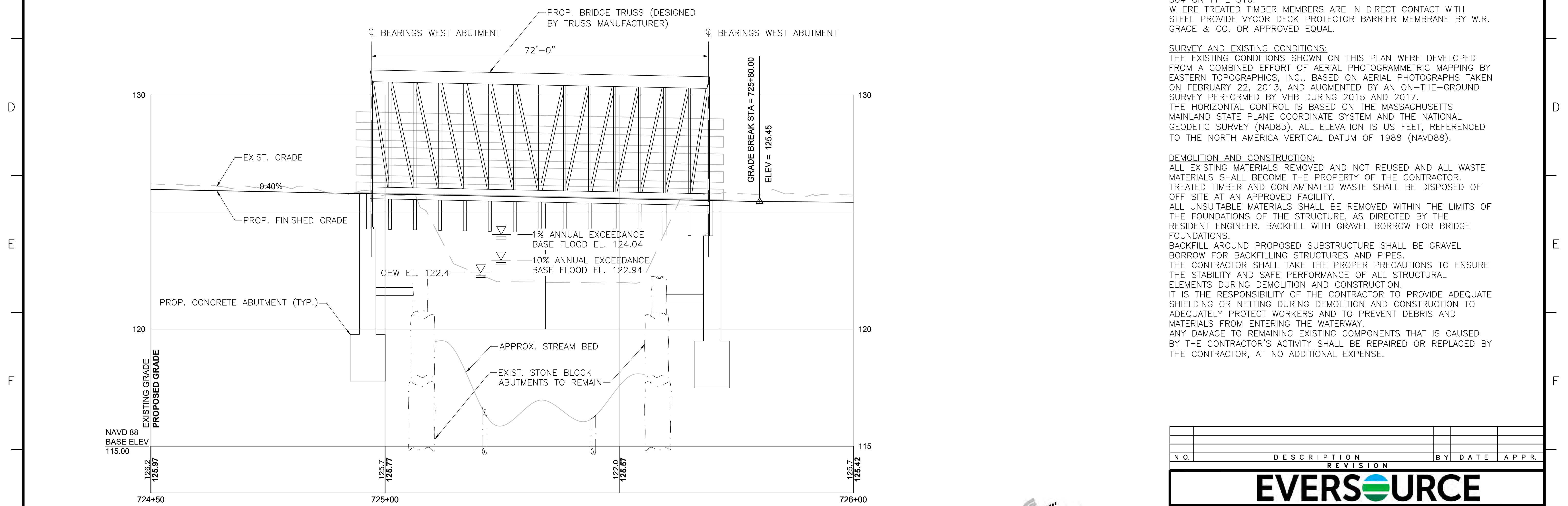
REINFORCEMENT:
REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

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

BORING BB-5 (CONTINUED)

BORING NOTES:

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

LGCI		BORING LOG		B-BB-5	
100 Chelmsford Road, Suite 2 Dillence, MA 01932 Telephone: (978) 330-5912 Fax: (978) 330-5096		PROJECT NAME: Proposed Hop Brook Bridge		PAGE 1 OF 2	
CLIENT: Vanasse Hangen Brustlin, Inc.		PROJECT LOCATION: Sudbury, Massachusetts		DATE STARTED: 10/08/18 DATE COMPLETED: 10/10/18	
LGCI PROJECT NUMBER: 1836		DRILLING SUBCONTRACTOR: Geosearch, Inc.		DRILLING FOREMAN: Kenny Bylund	
BORING LOCATION: Western side of Hop Brook Bridge		DRILLING METHOD: Drive and wash with 4-inch casing, then 3" casing		DRILL RIG TYPE/MODEL: CME 55 LC ATV	
COORDINATES: N/A		HAMMER TYPE: Automatic		HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.	
SURFACE EL.: 125 ft. (see note 1)		TOTAL DEPTH: 54 ft.		SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.	
WEATHER: 70% / Partly Cloudy		CORE BARREL SIZE: NA		LOGGED BY: TS / KD CHECKED BY: NB	
GROUNDWATER LEVELS: √ DURING DRILLING: 4.0 ft. / El. 121.0 ft. measured on 10/9/18 √ AT END OF DRILLING: 3.5 ft. / El. 121.5 ft. √ OTHER: 3.2 ft. / El. 121.8 ft. measured on 10/10/18					
Depth (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (ft.)	Strata	Material Description
0	S1	4-3-5-4 (8)	24/24	Forest Mat Fill	S1 - Top 2" Forest material
2	S2	3-1-1-1 (2)	24/13	Swamp Deposits	Bot. 22": Silty SAND (SM), fine to medium, trace coarse, ~20% fines, 5-10% fine subangular gravel, trace organic fines, trace roots, brown, moist
4	S3	3-1-3-3 (4)	24/14		S2 - Silty SAND (SM), fine, trace medium, 25-30% fines, trace fine subangular gravel, trace organic fines, trace roots, trace wood, dark brown, wet
6	S4	3-2-4-4 (6)	24/11		S3 - Similar to S2, ~35% fines
8	S5	4-2-5-5 (7)	24/15		S4 - Similar to S2, 35-40% fines
10	S6	3-3-6-7 (9)	24/15		S5 - Similar to S2, ~25% fines
12	S7	3-1-1-3 (2)	24/11		S6 - Top 12": Silty SAND (SM), fine to medium, trace coarse, ~15% fines, trace fine subangular gravel, trace organic fines, trace roots, dark brown, wet
14	S8	0-3-6-16 (9)	24/13		Bot. 3": Well Graded SAND with Silt (SW-SM), fine to medium, trace coarse, 5-10% fines, light brown to gray, wet
16	S9	16-16-15-17 (31)	24/16		S7 - Silty SAND (SM), fine to medium, trace coarse, 20-25% fines, trace fine angular gravel, trace roots, orange to brown, wet
18	S10	12-8-10-14 (18)	24/18		S8 - Silty GRAVEL with Sand (GM), coarse, subangular, 15-20% fines, 20-25% fine to medium sand, brown to orange, wet
20					Sand
22					S10 - Similar to S9
24					S11 - Silty SAND with Gravel (SM), fine to coarse, 20-25% fines, ~20% fine to coarse subangular gravel, light brown to gray, wet
25					

BOTTOM OF FOOTING
 EL. 117.76

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

LGCI		BORING LOG		B-BB-5	
100 Chelmsford Road, Suite 2 Dillence, MA 01932 Telephone: (978) 330-5912 Fax: (978) 330-5096		PROJECT NAME: Proposed Hop Brook Bridge		PAGE 2 OF 2	
CLIENT: Vanasse Hangen Brustlin, Inc.		PROJECT LOCATION: Sudbury, Massachusetts		DATE STARTED: 10/08/18 DATE COMPLETED: 10/10/18	
LGCI PROJECT NUMBER: 1836		DRILLING SUBCONTRACTOR: Geosearch, Inc.		DRILLING FOREMAN: Kenny Bylund	
BORING LOCATION: Western side of Hop Brook Bridge		DRILLING METHOD: Drive and wash with 4-inch casing, then 3" casing		DRILL RIG TYPE/MODEL: CME 55 LC ATV	
COORDINATES: N/A		HAMMER TYPE: Automatic		HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.	
SURFACE EL.: 125 ft. (see note 1)		TOTAL DEPTH: 54 ft.		SPLIT SPOON DIA.: 1.375 in. I.D., 2 in. O.D.	
WEATHER: 70% / Partly Cloudy		CORE BARREL SIZE: NA		LOGGED BY: TS / KD CHECKED BY: NB	
GROUNDWATER LEVELS: √ DURING DRILLING: 4.0 ft. / El. 121.0 ft. measured on 10/9/18 √ AT END OF DRILLING: 3.5 ft. / El. 121.5 ft. √ OTHER: 3.2 ft. / El. 121.8 ft. measured on 10/10/18					
Depth (ft.)	Sample Number	Blow Counts (N Value)	Pen./Rec. (ft.)	Strata	Material Description
24	S11	(86)	24/9	Sand	REMARK 1: Switched to 3-inch casing at 20 feet.
26	S12	60-120/4*	10/5		S12 - Silty GRAVEL with Sand (GM), fine to coarse, subangular to rounded, ~15% fines, ~15% fine to coarse sand, light brown to gray, wet
29					S13 - Similar to S12
34	S13	23-46-32-22 (78)	24/10		
36					S14 - Top 17": Poorly Graded SAND with Silt (SP-SM), fine to medium, 10-15% fines, trace fine subangular gravel, light brown, wet
40	S14	20-60-50-38 (110)	24/23		Bot. 6": Silty GRAVEL with Sand (GM), fine to coarse, 15-20% fines, 15-20% fine to coarse sand, light brown, wet
41					S15 - Silty SAND with Gravel (SM), fine to coarse, ~25% fines, 15-20% fine subrounded gravel, light brown to gray, wet
44	S15	8-20-100/3*	15/7		REMARK 2: Open hole drive and wash technique used at 47 feet.
45					REMARK 3: Attempted to obtain a core sample at 49 feet. Core barrel advanced ~5 feet in ~10 seconds, indicating that the material was not rock.
49	S16	120/0*	0/0		S16 - No recovery
50				S17 - No recovery	
54	S17	120/0*	0/0	Bottom of borehole at 54.0 feet. Backfilled borehole with drill cuttings.	
55					
60					



Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.904.1170 FAX 617.924.2286

NO.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS				
PLANI 94 OF 348				
SCALE: unless noted N/A	DATE DRAWN JAN 2021	C H'K D. AMS	A P P R. SBK	DRAWING NO. REV. KGK

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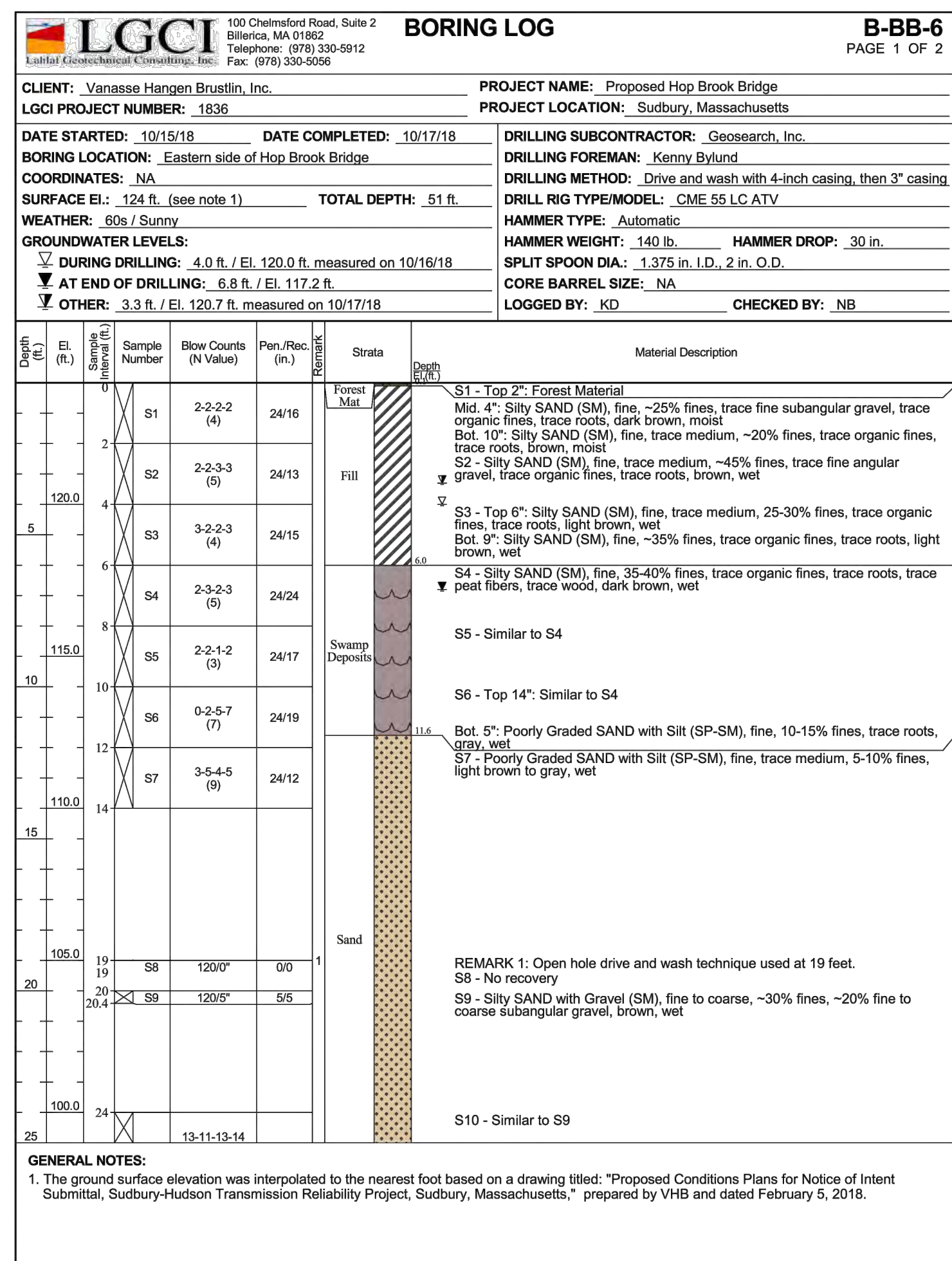
E

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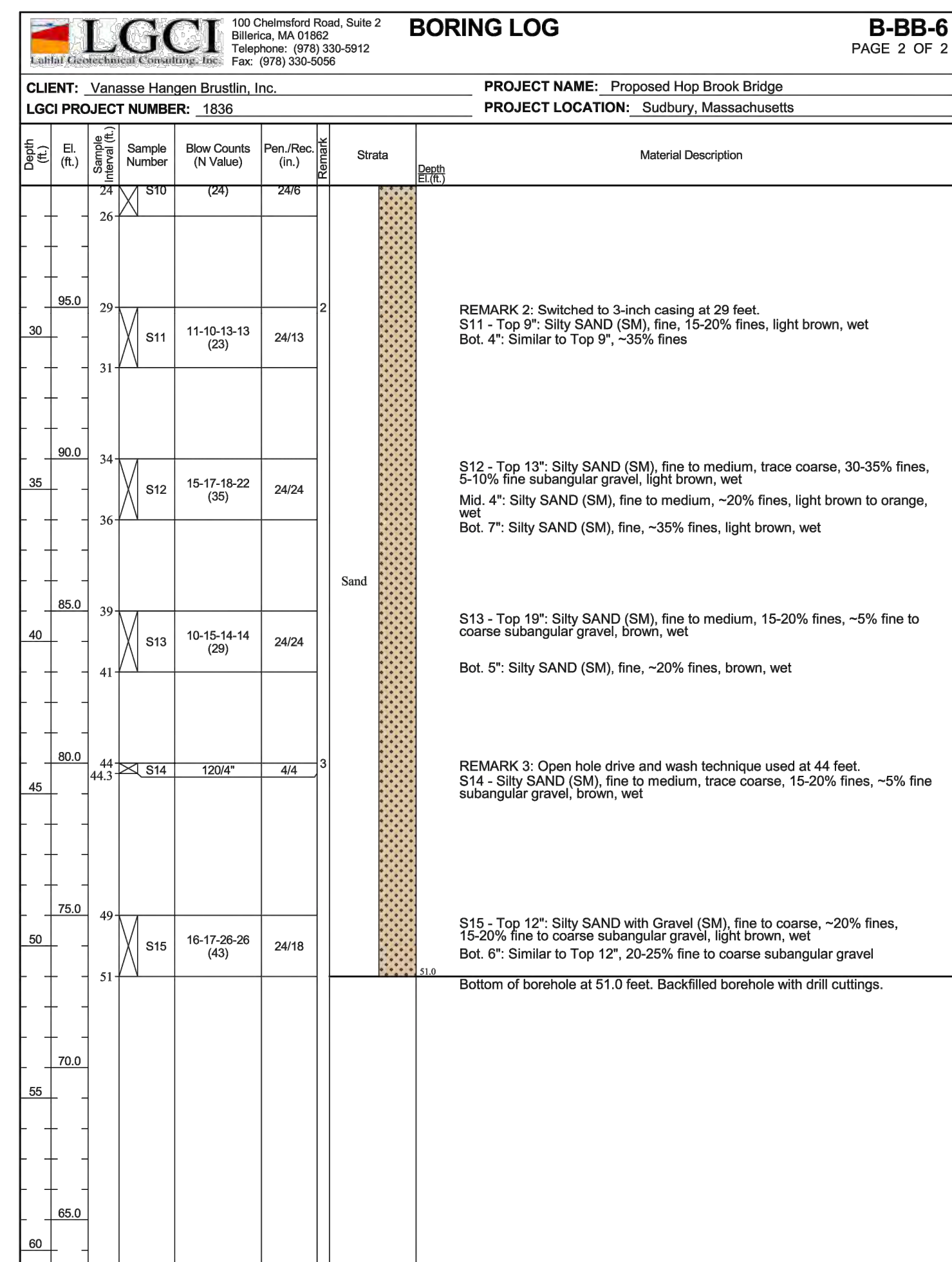
G

BORING BB-6
 STATION: 725+68.0
 OFFSET: 0.0' LT
 N: 2956131.0
 E: 679542.0
 GROUND ELEVATION: 124.0'
 (SEE NOTE 10, SHEET 194 OF 348)

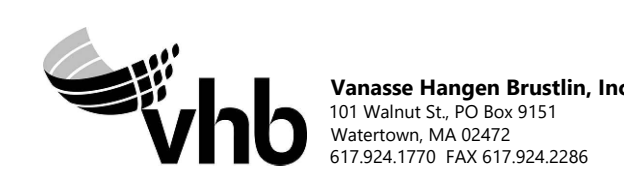
BORING BB-6 (CONTINUED)

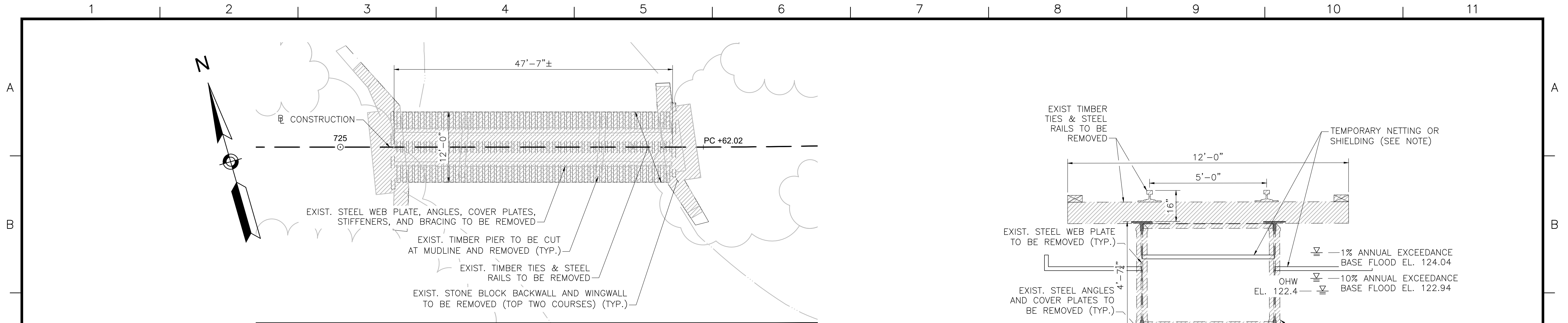


BOTTOM OF FOOTING
 EL. 117.47

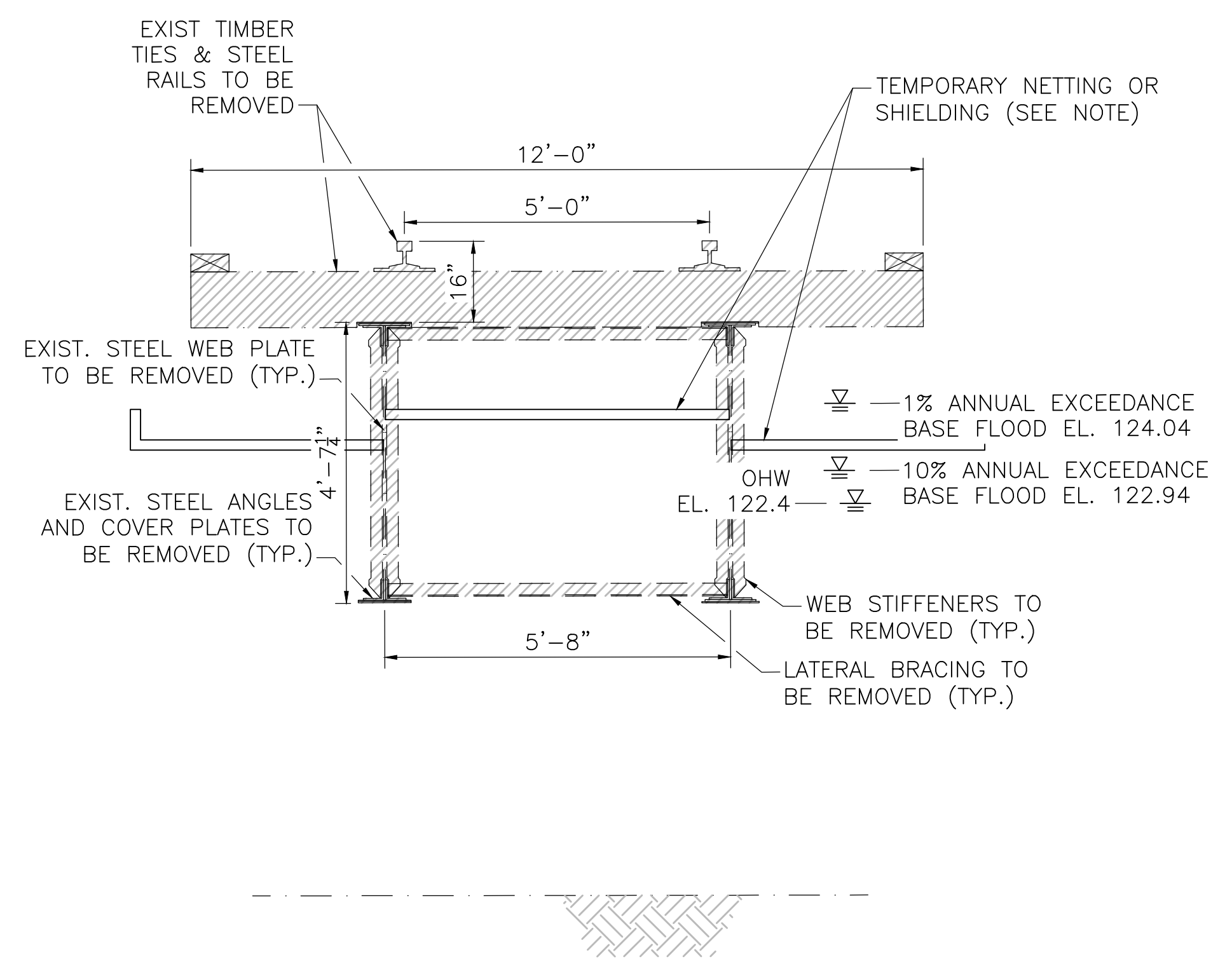


NO.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH, & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127) - BORING LOGS				
PLANS 95 OF 348				
SCALE: unless noted N/A	DATE DRAWN JAN 2021	C H'K D. AMS	A P P R. SBK	DRAWING NO. REV. KGK



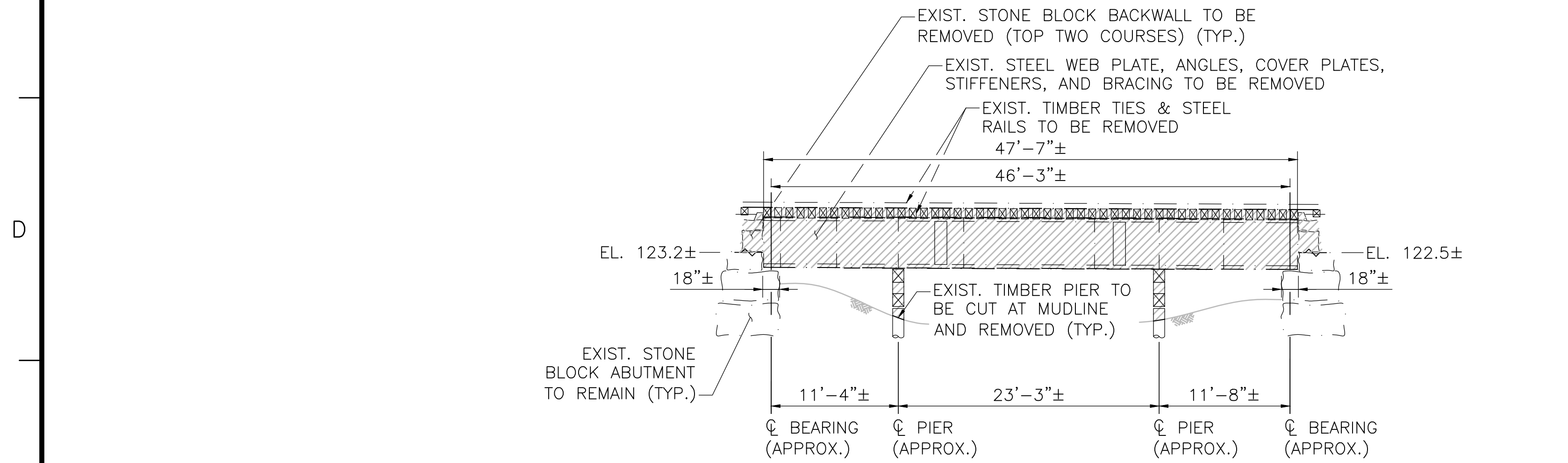


BRIDGE PLAN
SCALE: 1/8"=1'-0"

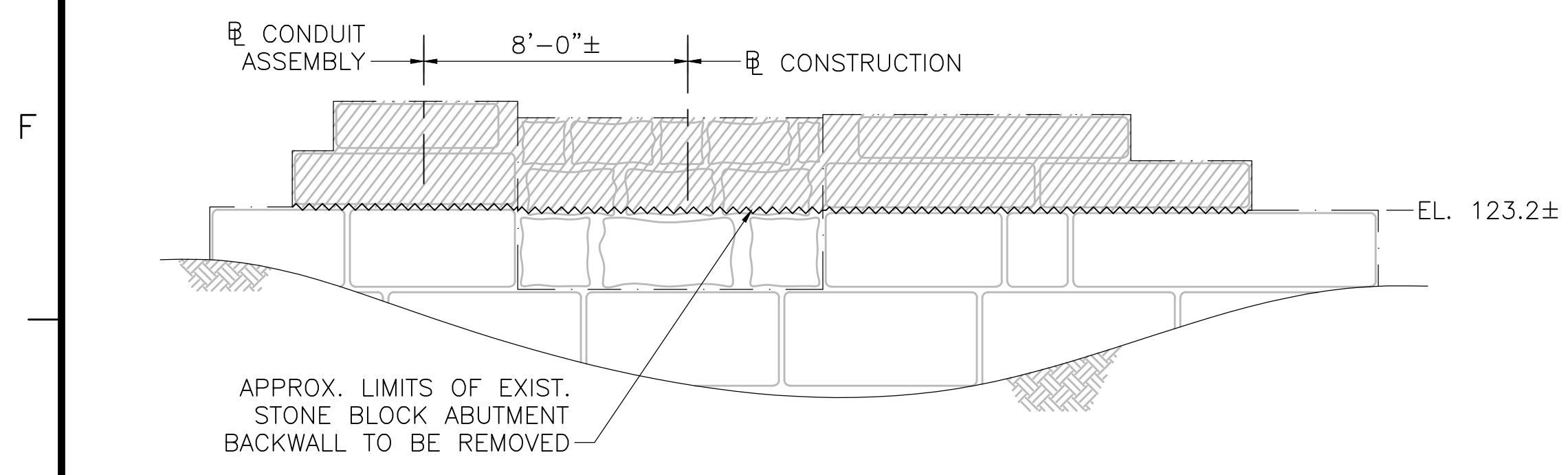


BRIDGE TRANSVERSE SECTION
SCALE: 1/2"=1'-0"

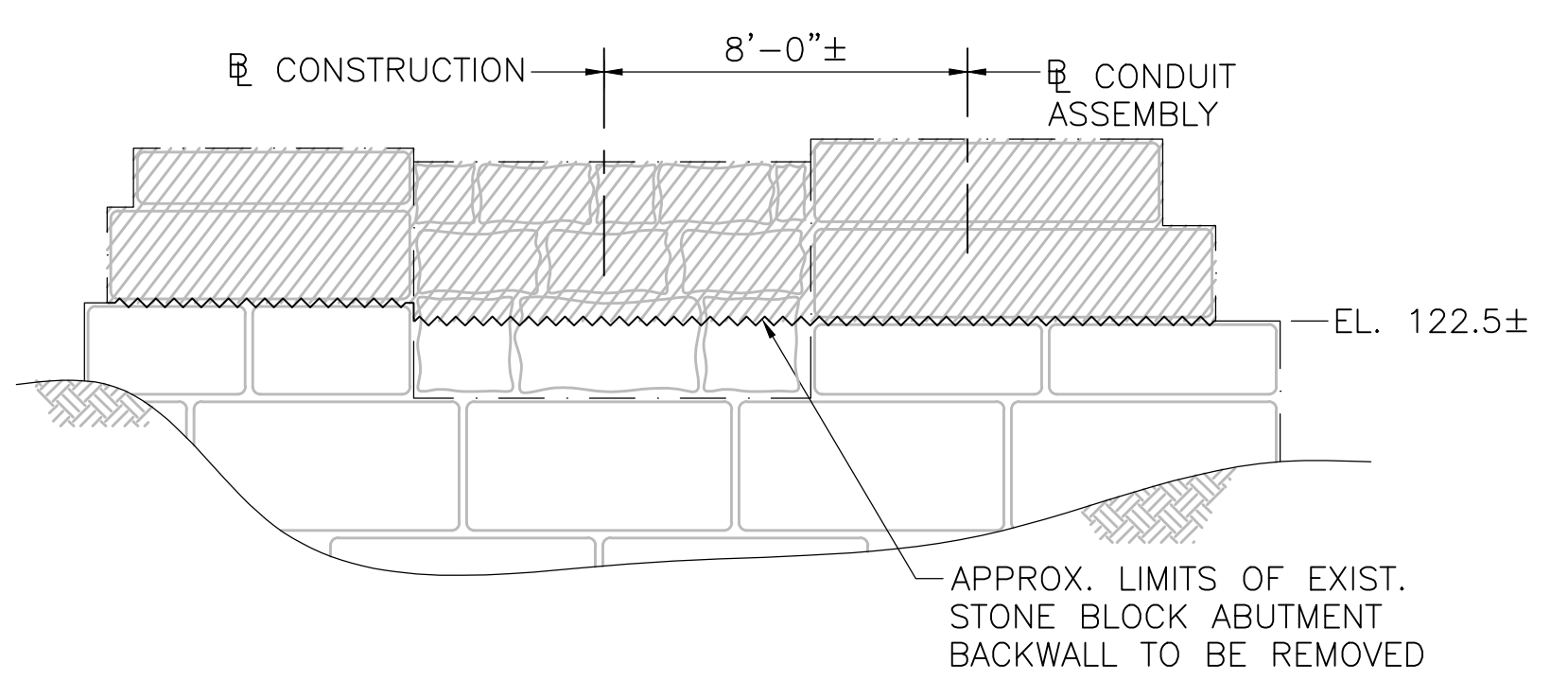
NOTE: CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY PROTECTIVE SHIELDING OR NETTING DURING DEMOLITION OF BRIDGE AND AS NEEDED DURING CONSTRUCTION OF NEW BRIDGE TO PREVENT CONSTRUCTION DEBRIS FROM FALLING INTO THE WATER BODIES BELOW. SEE PROJECT SPECIFICATIONS AND PERMITTING DOCUMENTS FOR ADDITIONAL REQUIREMENTS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



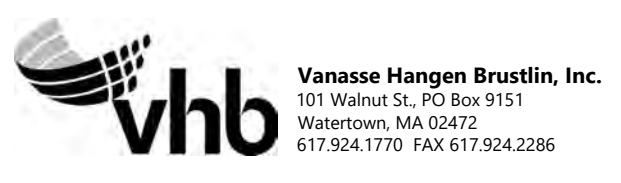
BRIDGE ELEVATION
SCALE: 1/8"=1'-0"



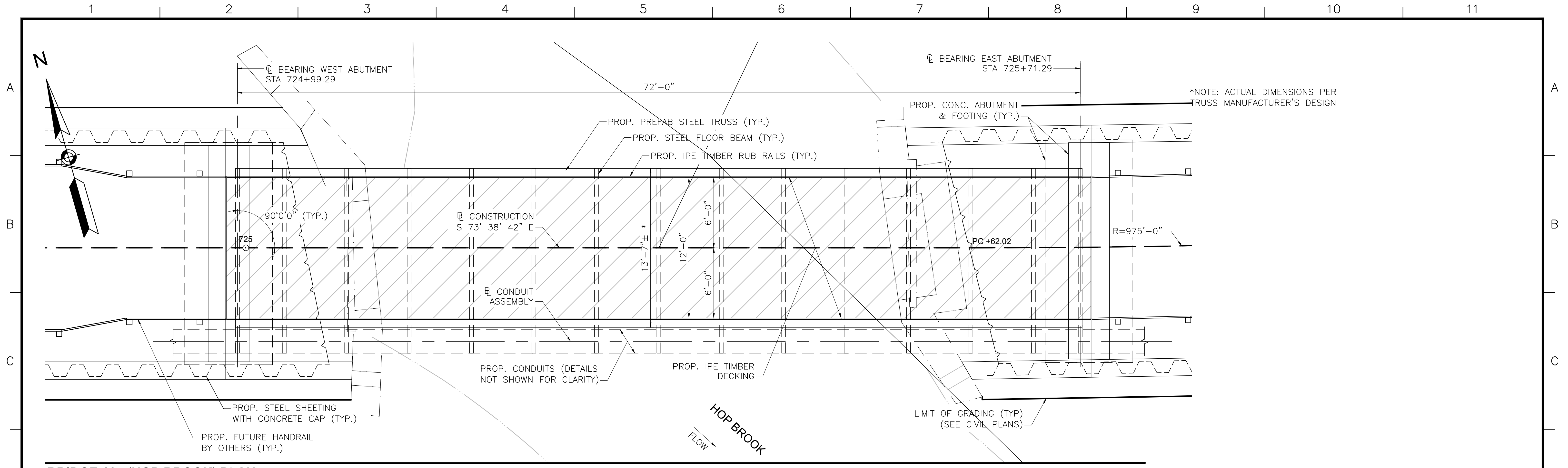
WEST ABUTMENT ELEVATION
SCALE: 1/4"=1'-0"



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

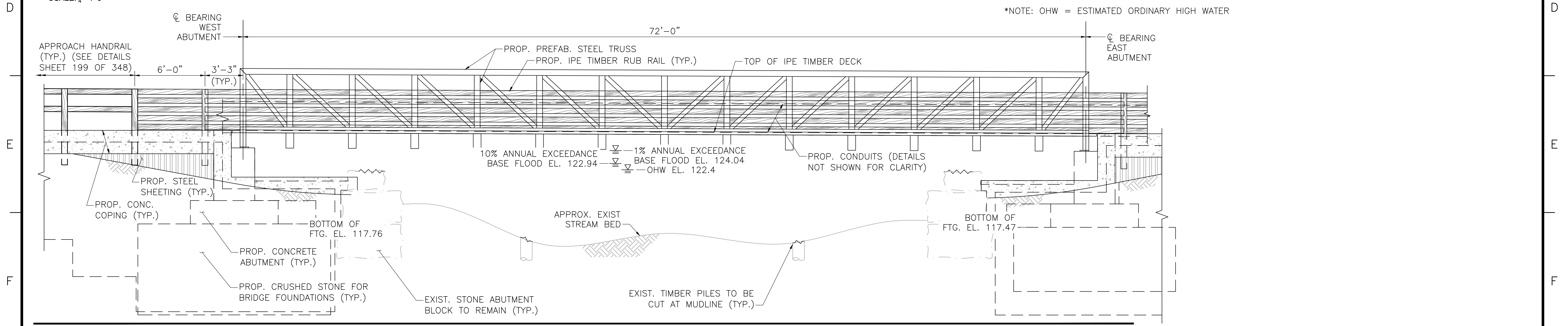


N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127) - DEMOLITION PLAN				
PLAN 96 OF 348				
SCALE: unless noted VARIES	DATE: JAN 2021	DRAWN: AMS	CHECKED: SBK	APPR.: KGK
				DRAWING NO. REV.



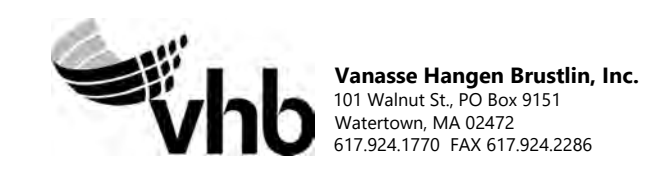
BRIDGE 127 (HOP BROOK) PLAN

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

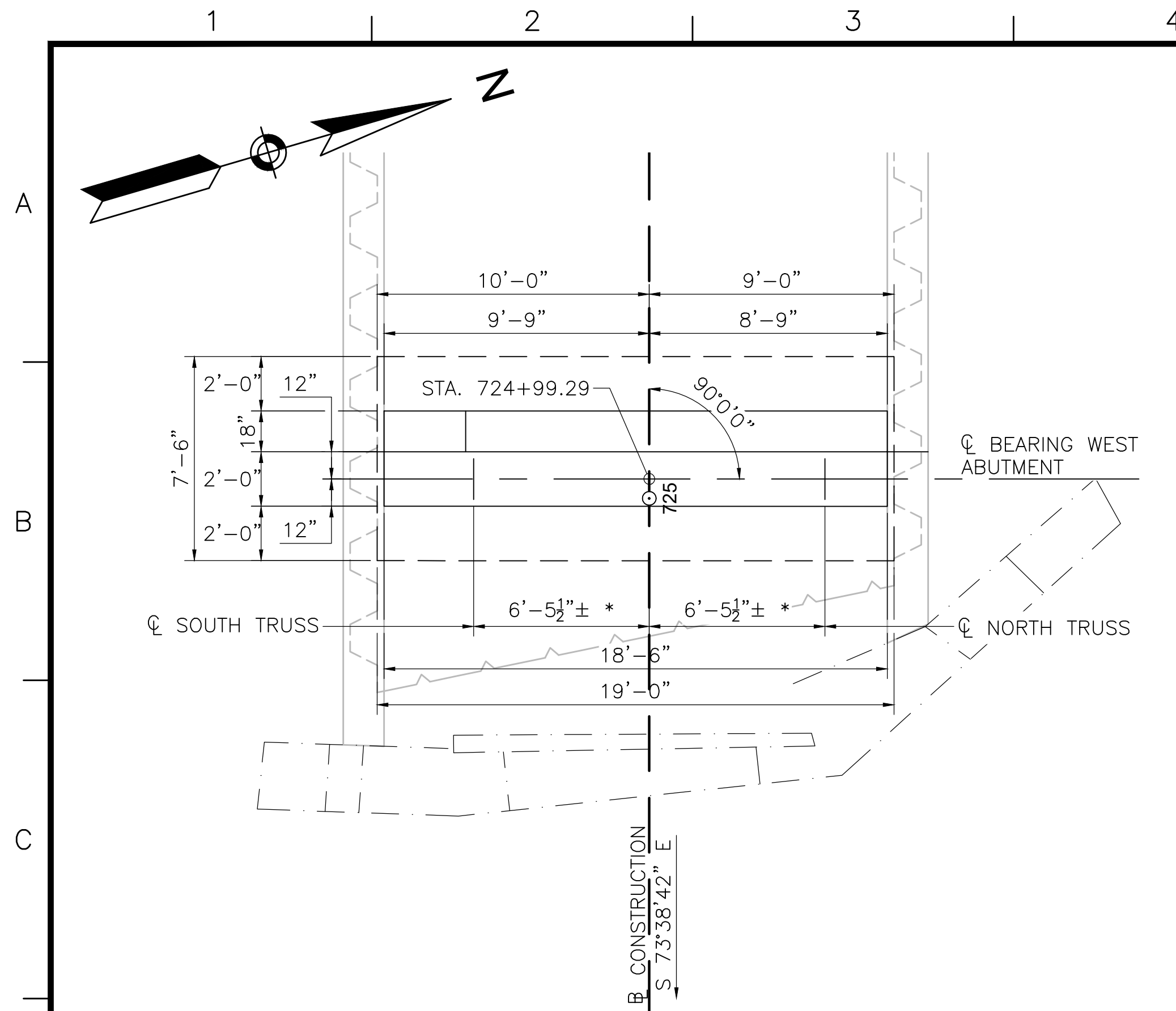


BRIDGE 127 (HOP BROOK) ELEVATION

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

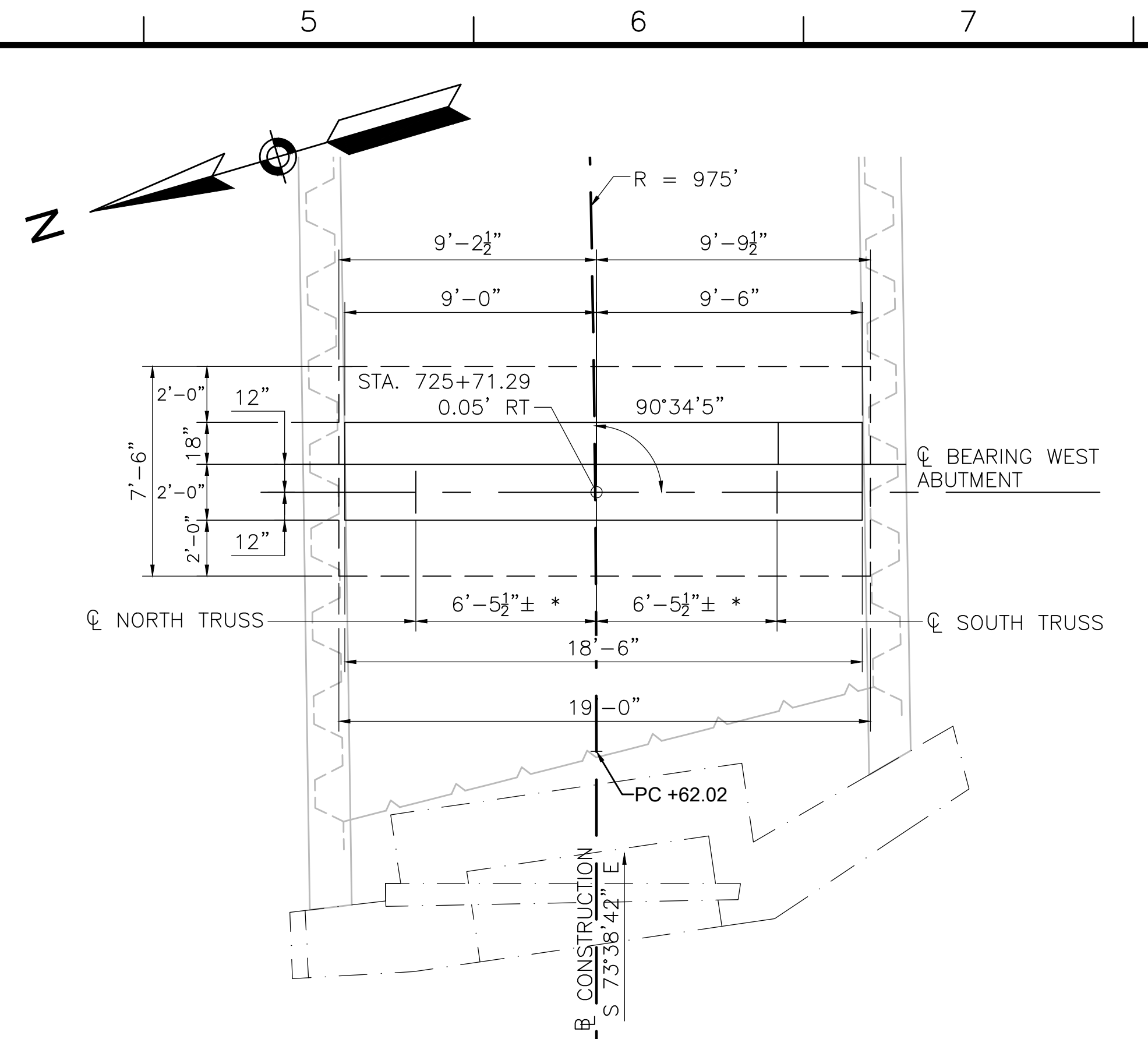


N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
BRIDGE S-31-016 (BRIDGE 127, HOP BROOK) - PLAN & EL.				
PLAN 97 OF 348				
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	C H'K D. SBK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



WEST ABUTMENT PLAN

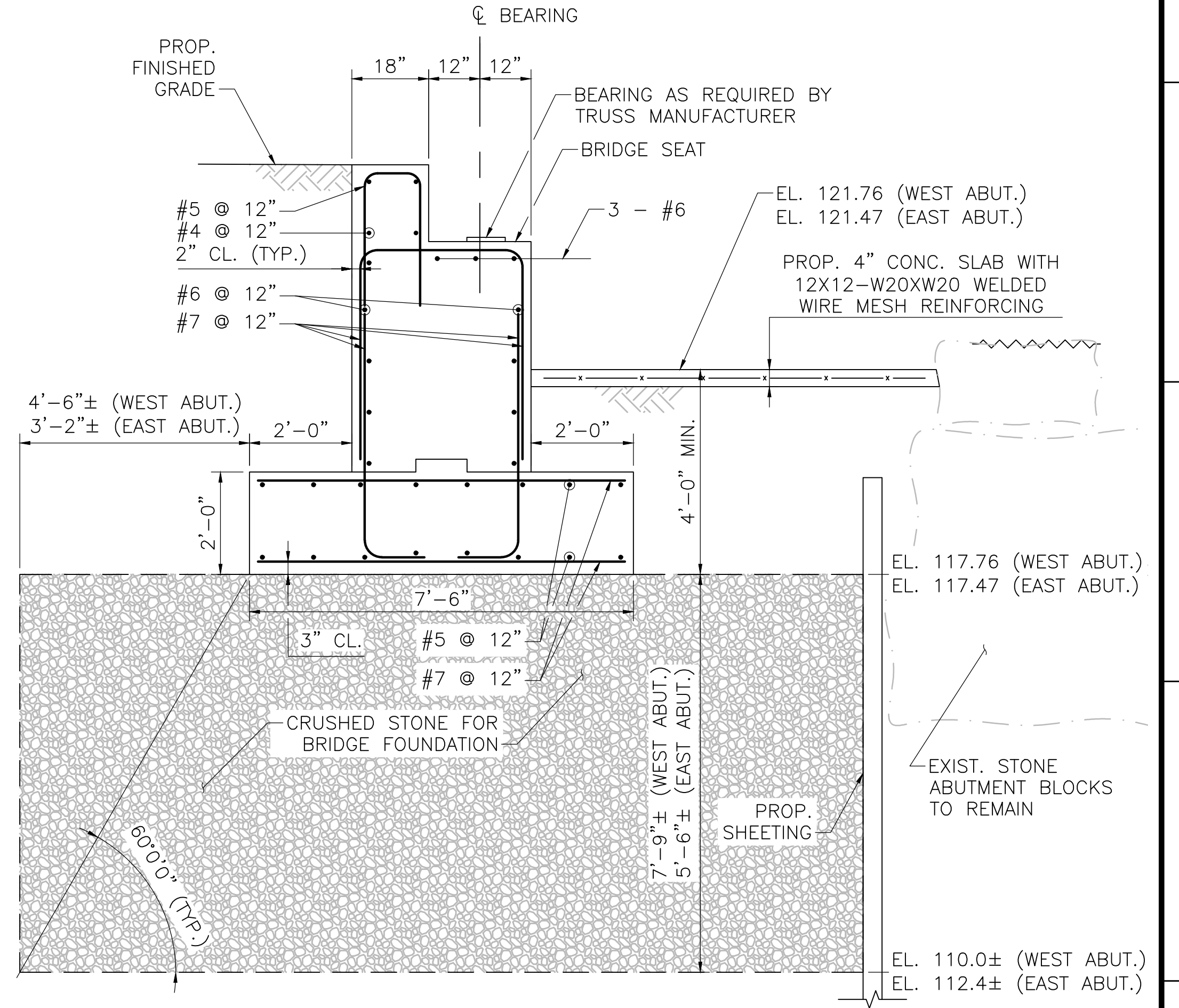
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EAST ABUTMENT PLAN

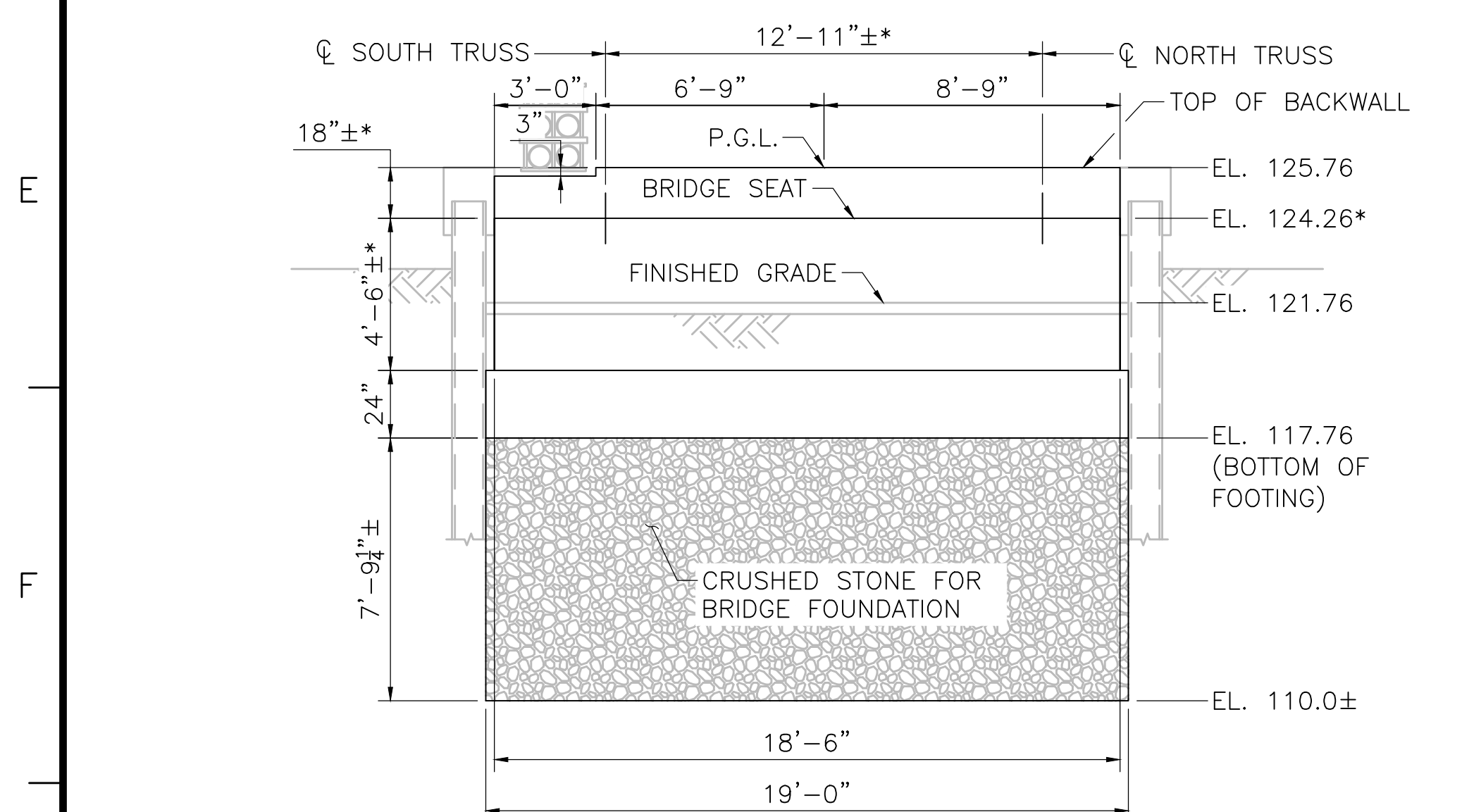
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*NOTE: ACTUAL DIMENSIONS PER TRUSS MANUFACTURER'S DESIGN



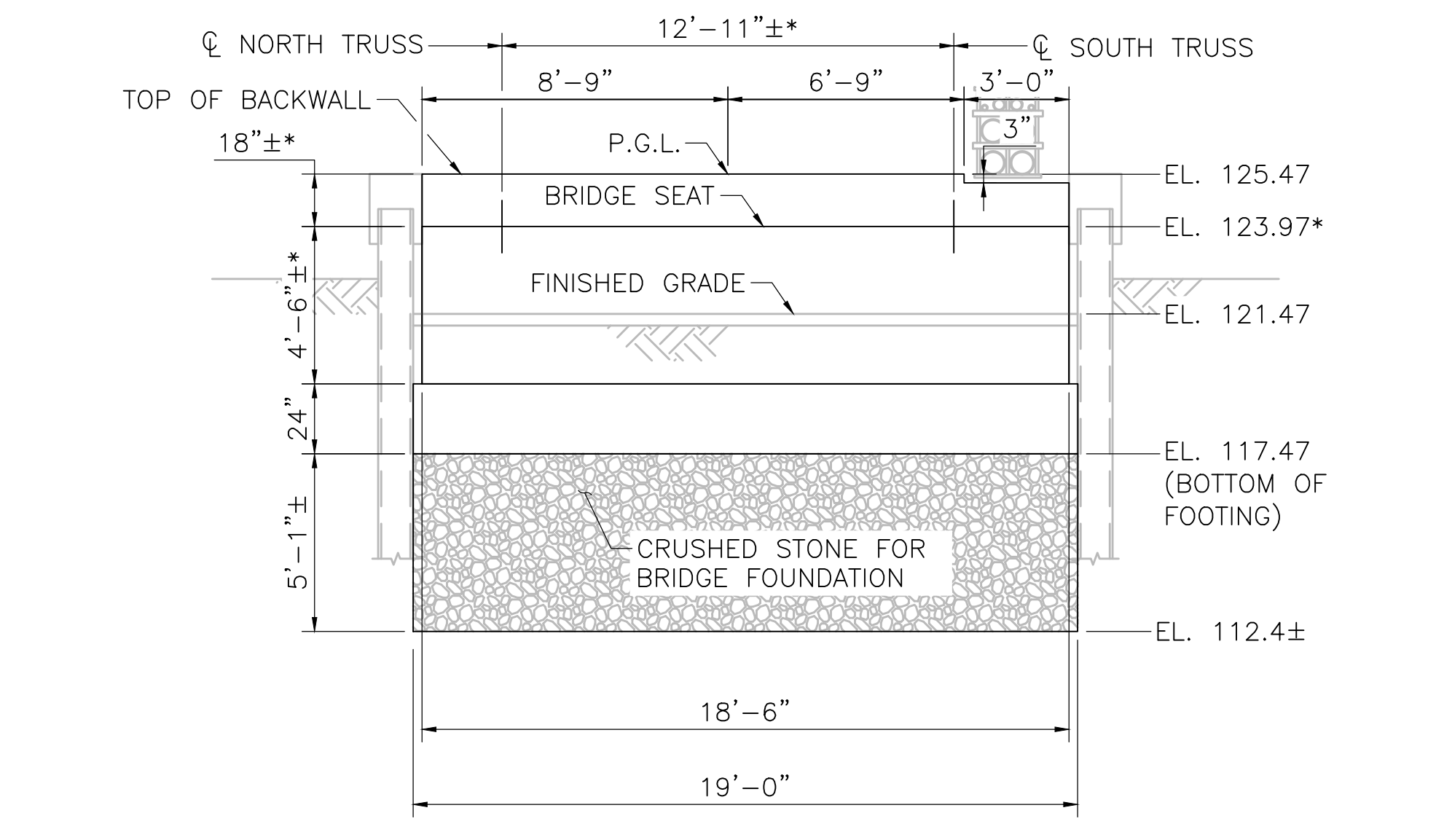
TYPICAL ABUTMENT SECTION

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



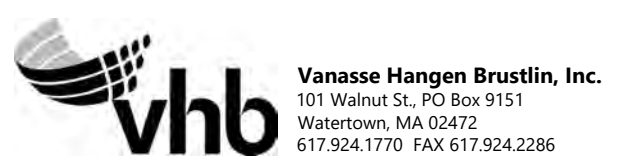
WEST ABUTMENT ELEVATION

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

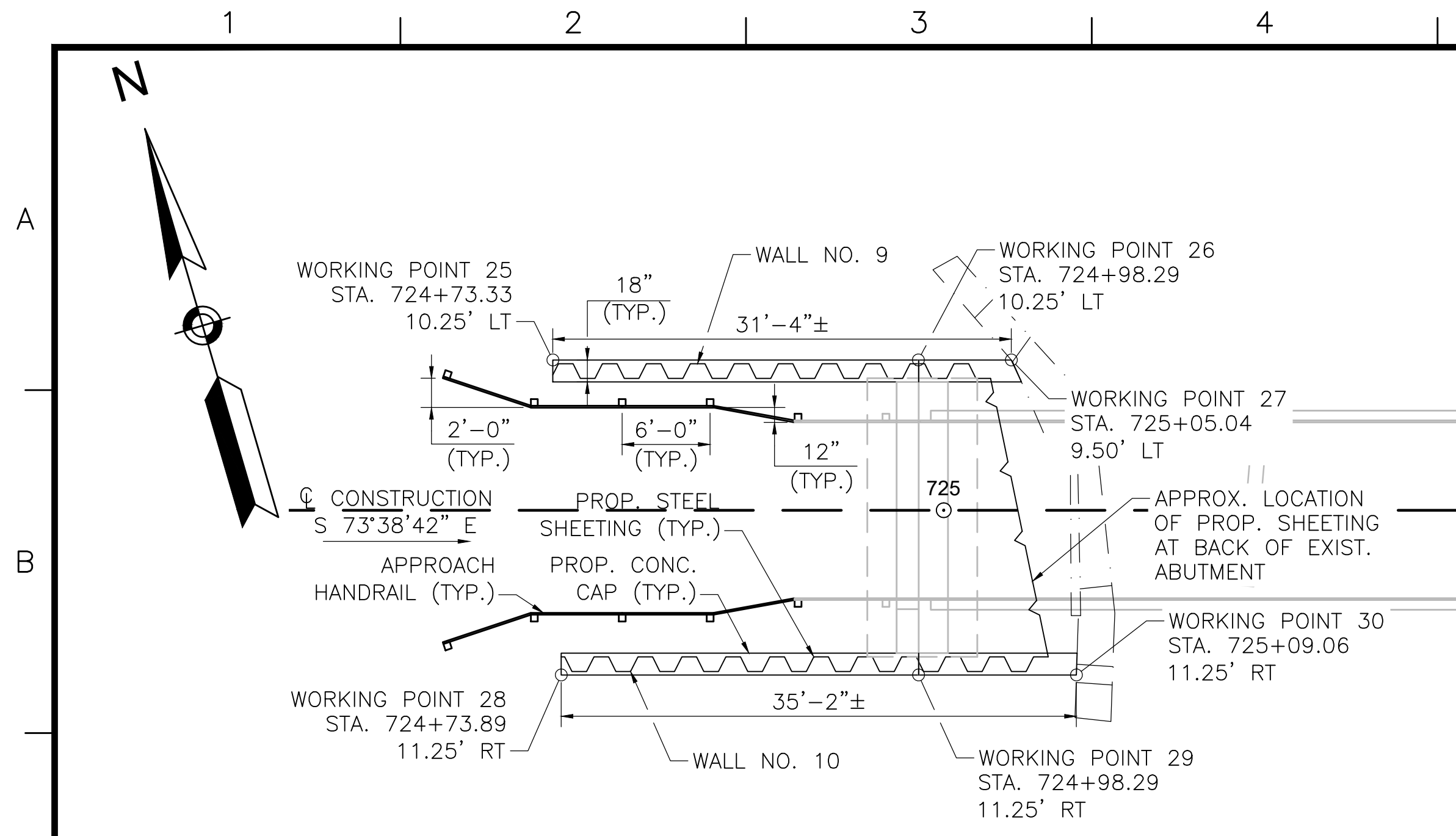


EAST ABUTMENT ELEVATION

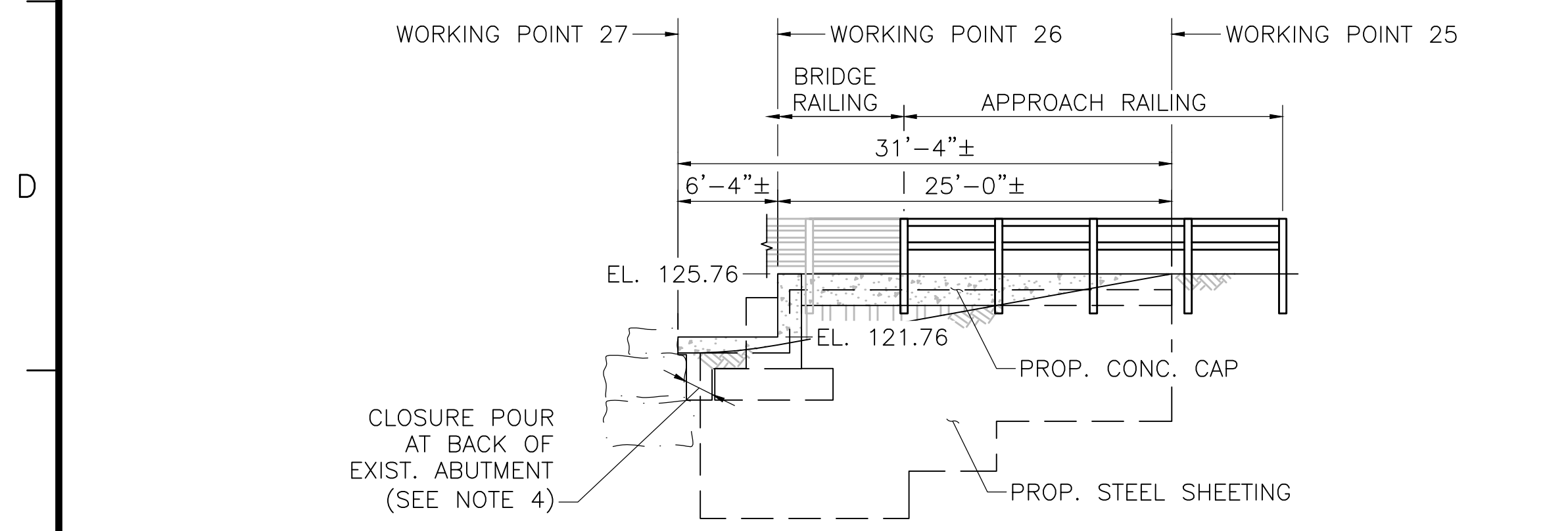
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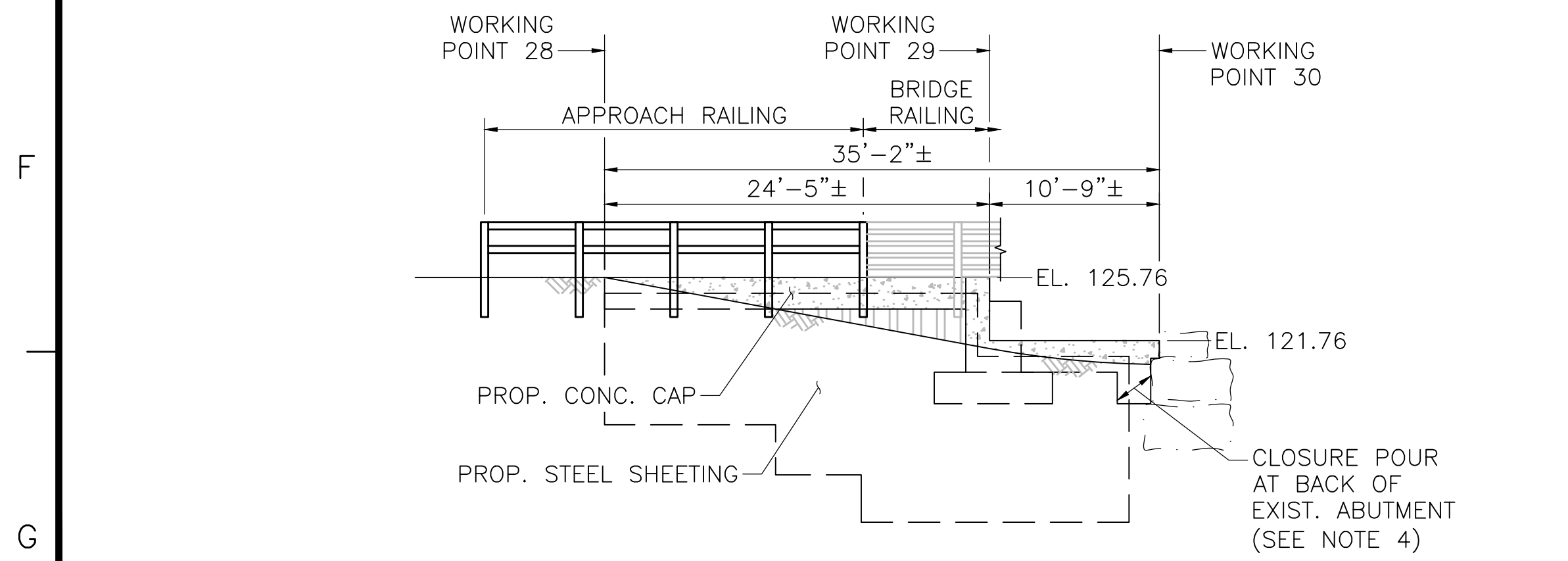
NO.	DESCRIPTION		BY	DATE	APPR.
	REVISION				
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
BRIDGE S-31-016 (BRIDGE 127) - SUBSTRUCTURE DETAILS					
PLAN 98 OF 348					
SCALE: unless noted 1"=4'	DATE JAN 2021	DRAWN AMS	C'H'K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



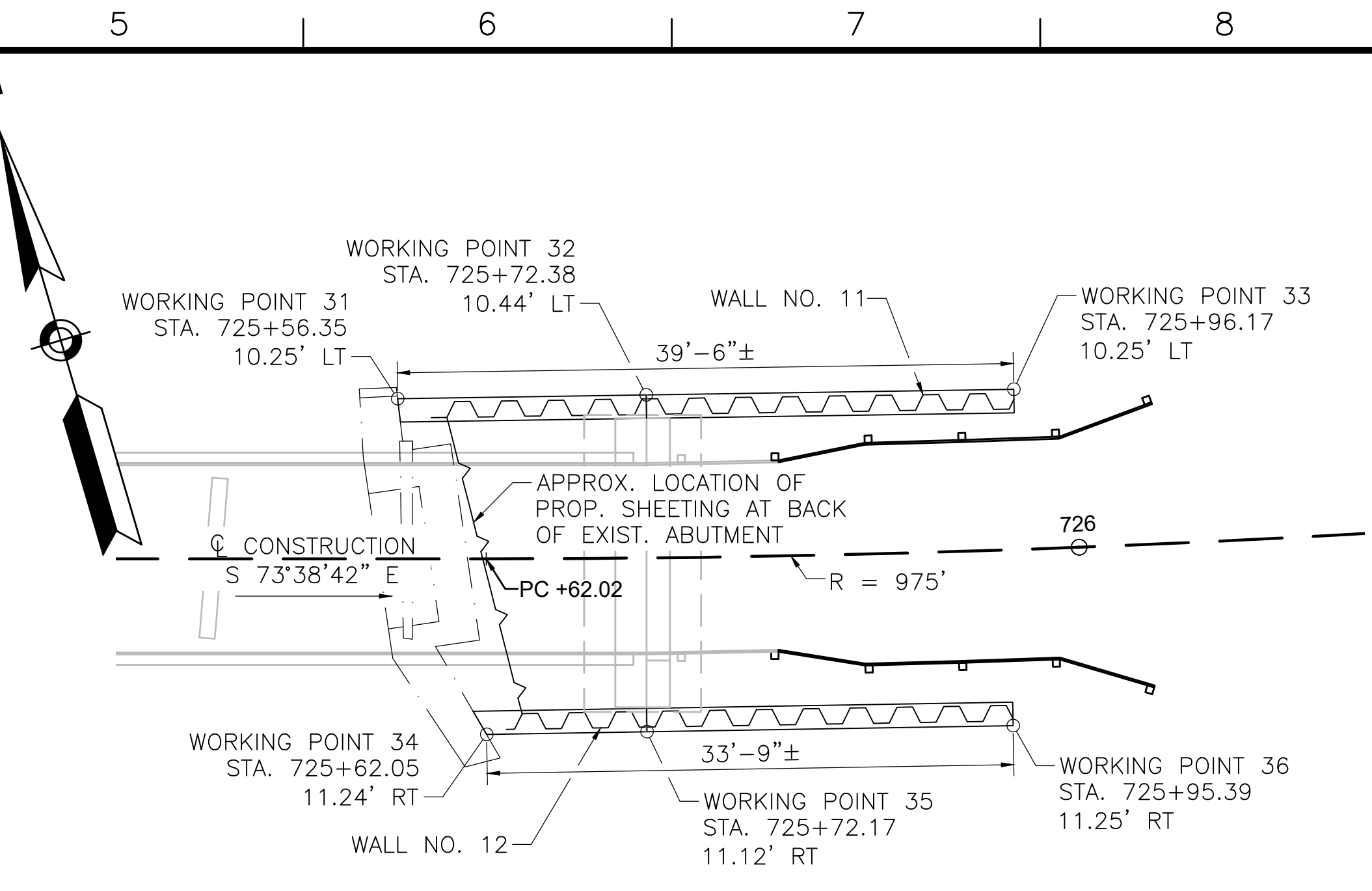
WALL 9 & 10 SHEETING PLAN (WEST APPROACH)
SCALE: 1/4"=1'-0"



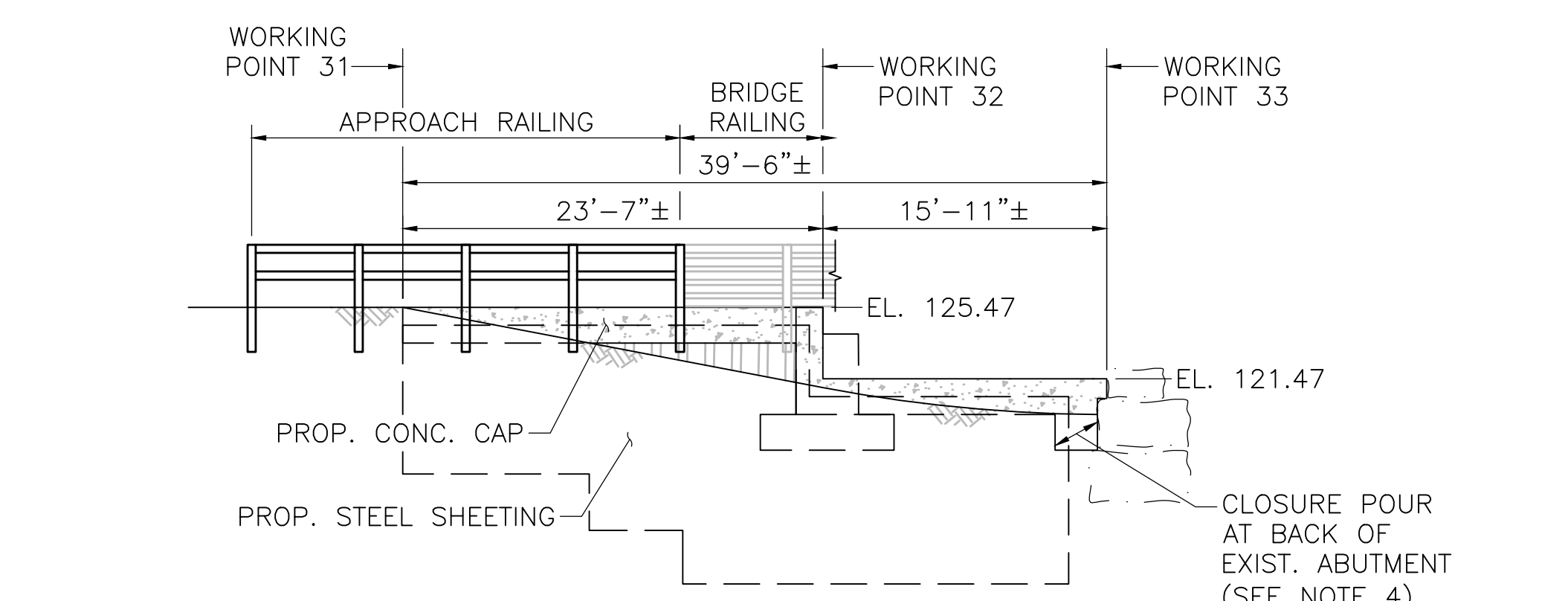
WALL 9 ELEVATION (WEST APPROACH NORTH SHEETING WALL)
SCALE: 1/4"=1'-0"



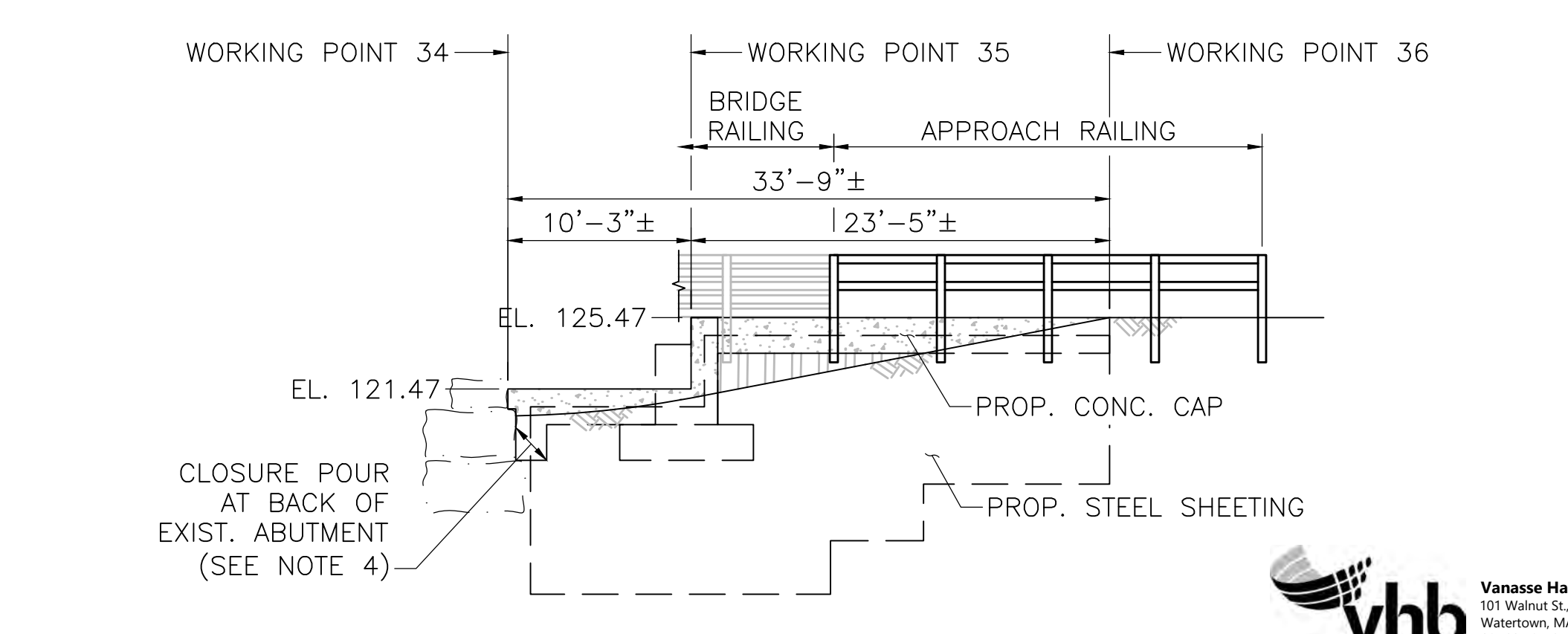
WALL 10 ELEVATION (WEST APPROACH SOUTH SHEETING WALL)
SCALE: 1/4"=1'-0"



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



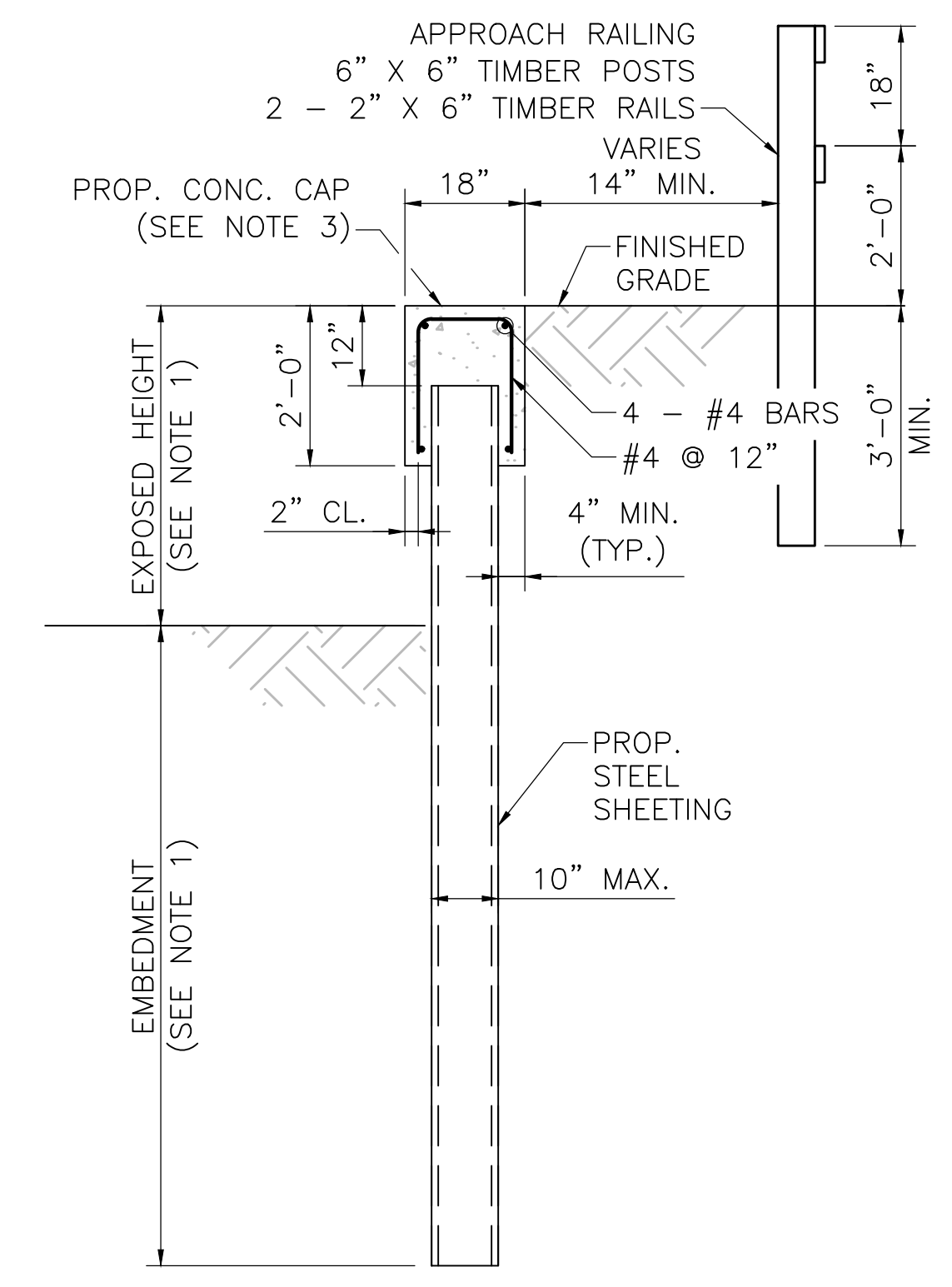
WALL 11 ELEVATION (EAST APPROACH NORTH SHEETING WALL)
SCALE: 1/4"=1'-0"



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

NOTES:

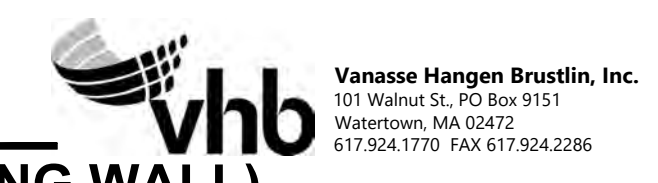
1. WALL EXPOSED HEIGHT TO BE VERIFIED IN FIELD. SHEETING EMBEDMENT DEPTH VARIES WITH WALL EXPOSED HEIGHT. SEE SHEETING EMBEDMENT TABLE BELOW.
2. SHEETING SECTION SHALL BE SELECTED BY CONTRACTOR. STEEL SHEETING SHALL BE GRADE 50 STEEL IN ACCORDANCE WITH ASTM A328 WITH A SECTION MODULUS (S_x) OF 7.08 IN³ 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.)

NO.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
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.



1 2 3 4 5 6 7 8 9 10 11

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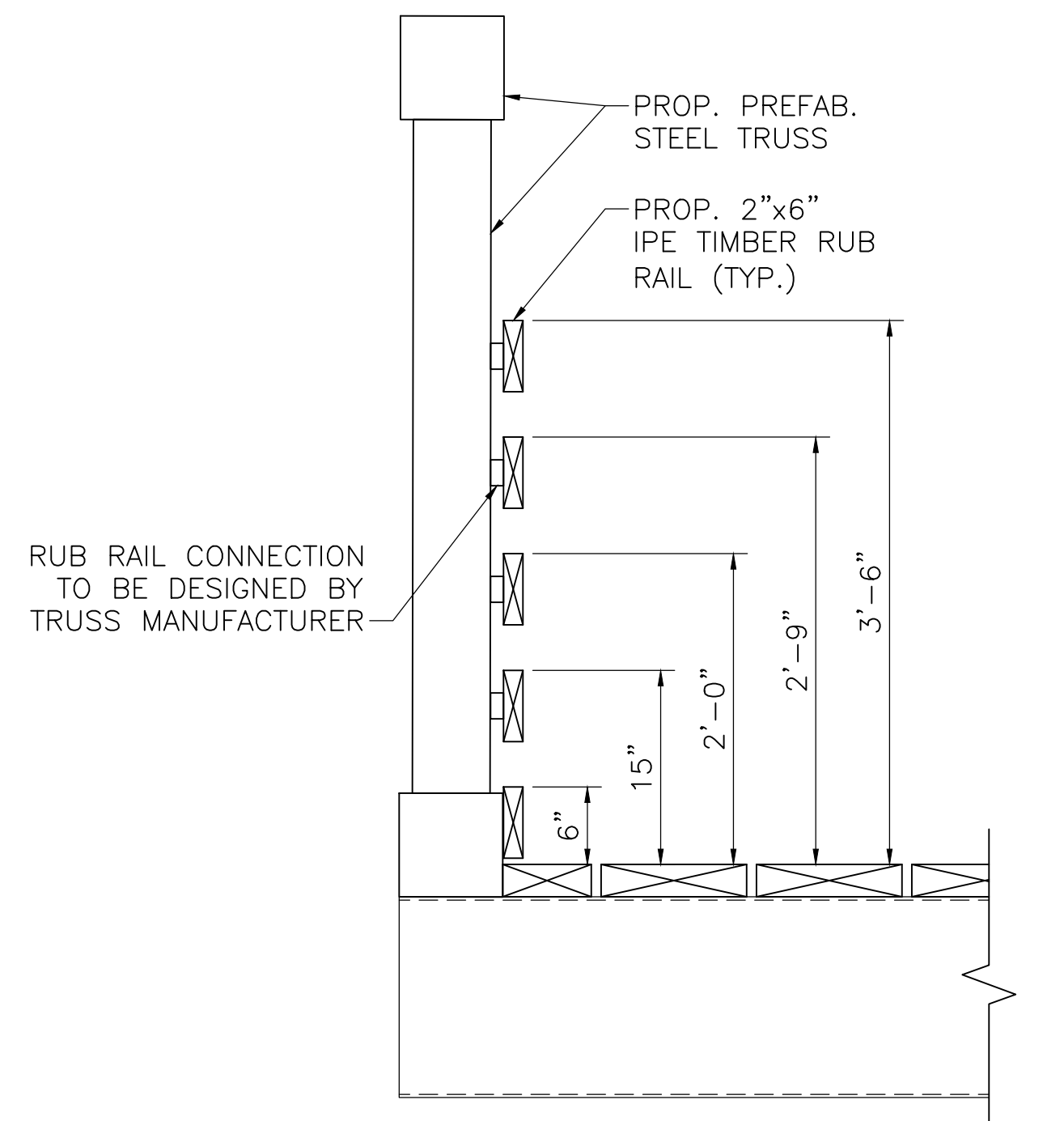
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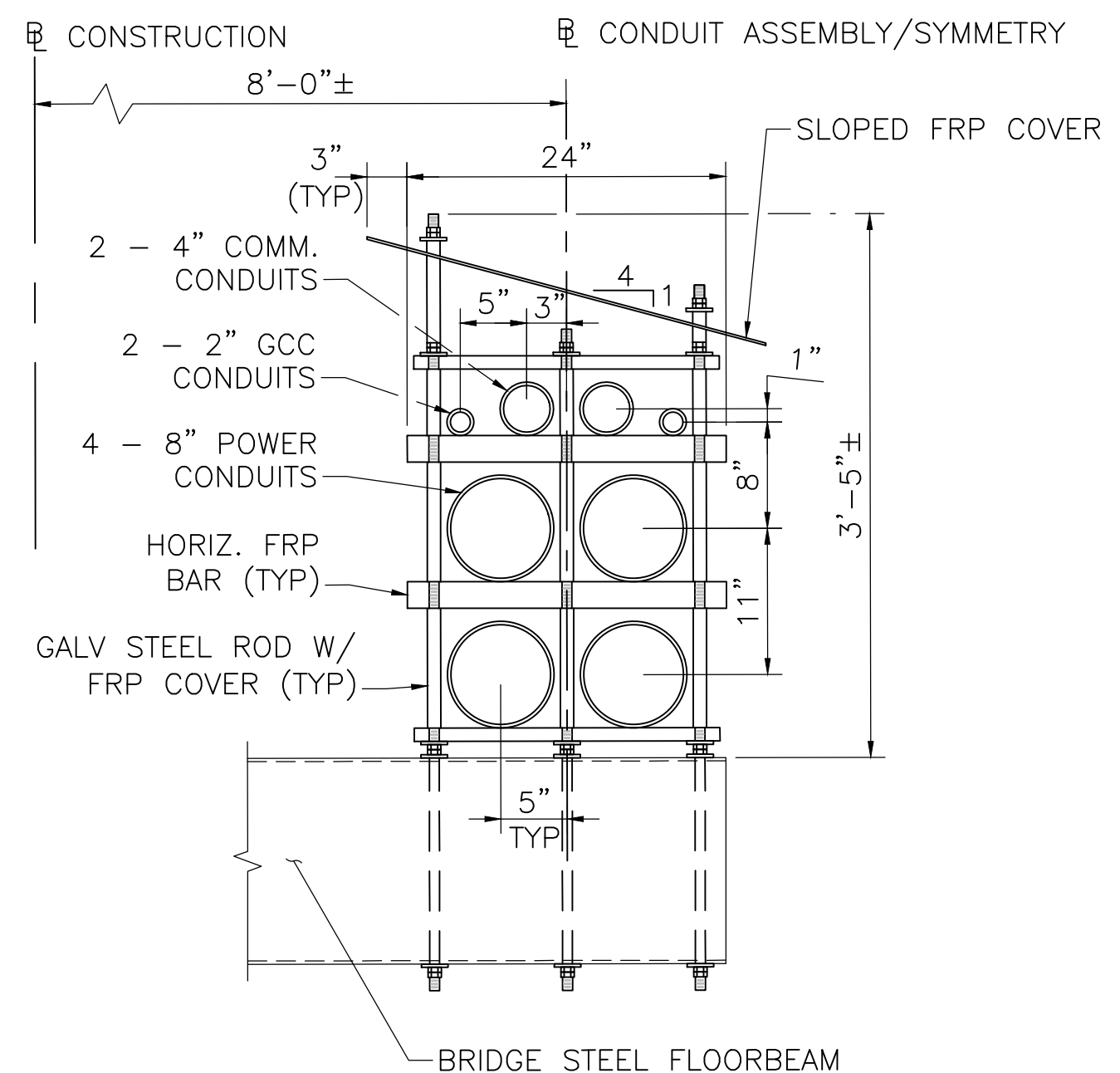
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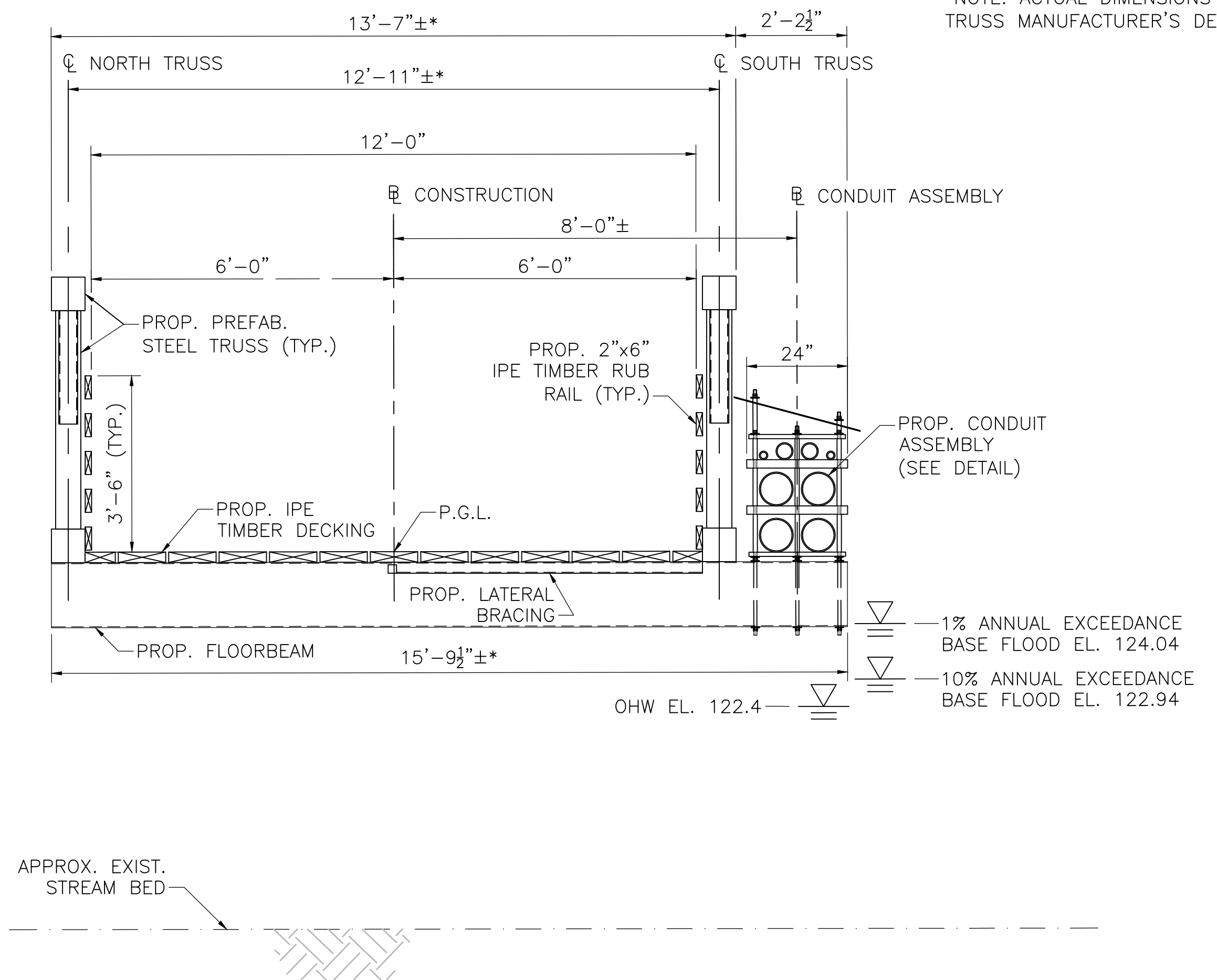
RAILING CONNECTION DETAIL

SCALE: 1"=1'-0"



CONDUIT ASSEMBLY DETAIL

SCALE: 1"=1'-0"



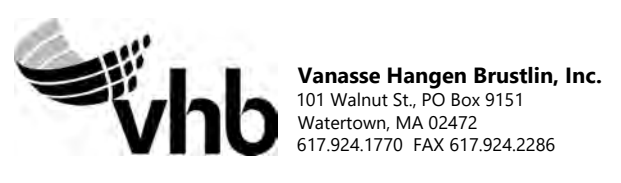
BRIDGE TRANSVERSE SECTION

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.
REVISION				
EVERSOURCE				
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. #



1 2 3 4 5 6 7 8 9 10 11

1 2 3 4 5 6 7 8 9 10 11

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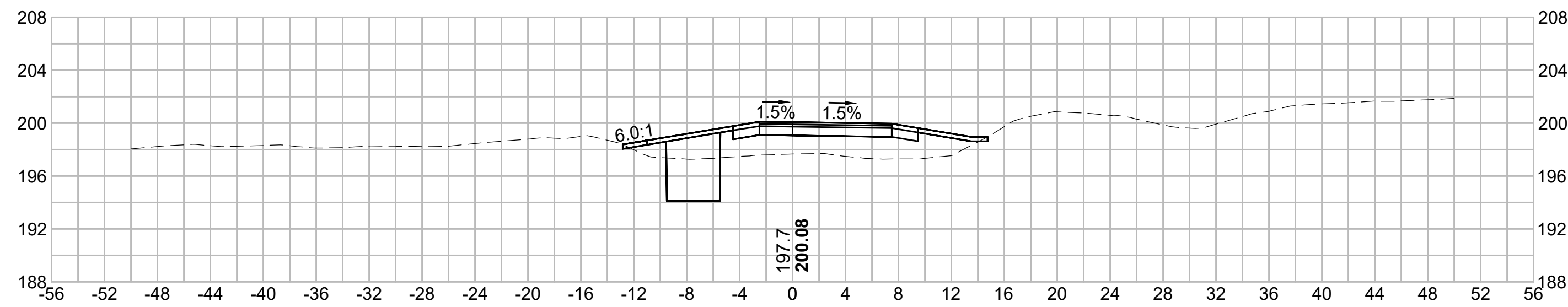
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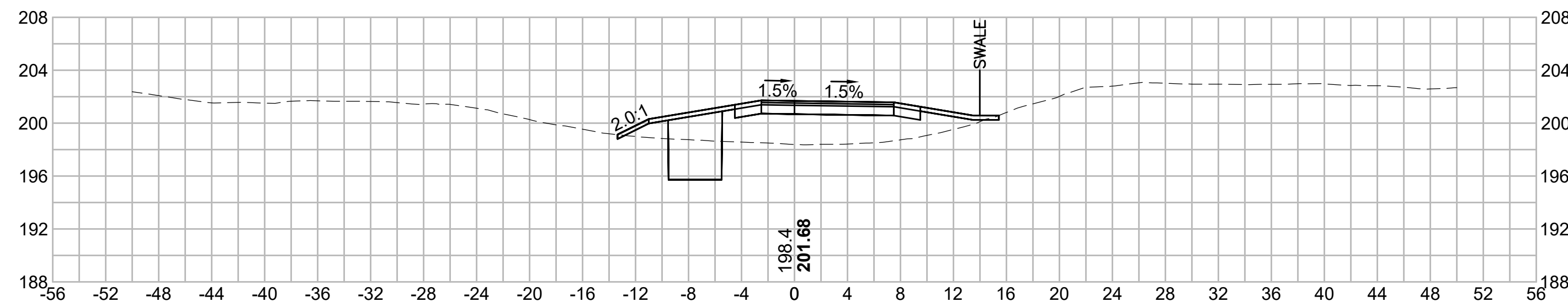
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360+50

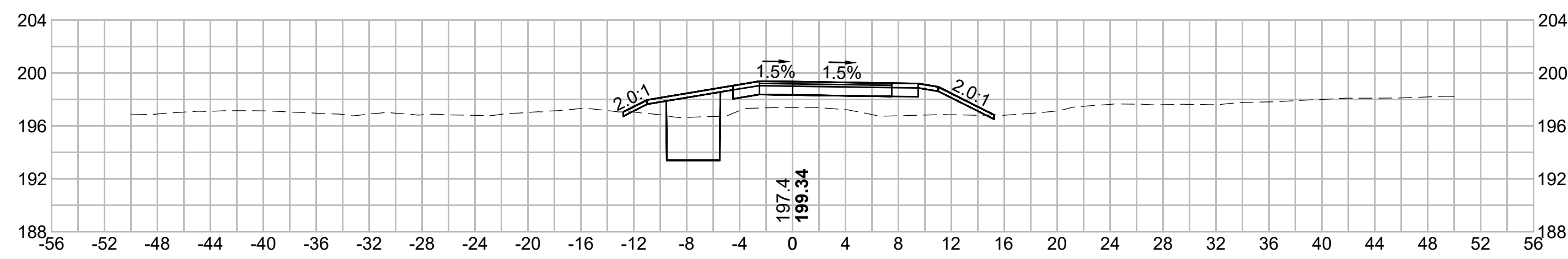


362+00

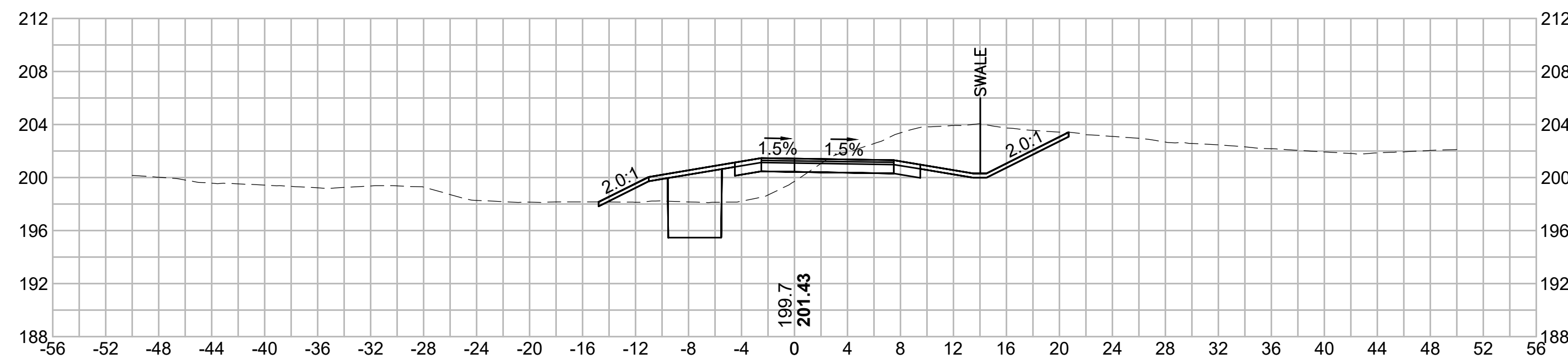


TOWN OF SUDBURY

360+00

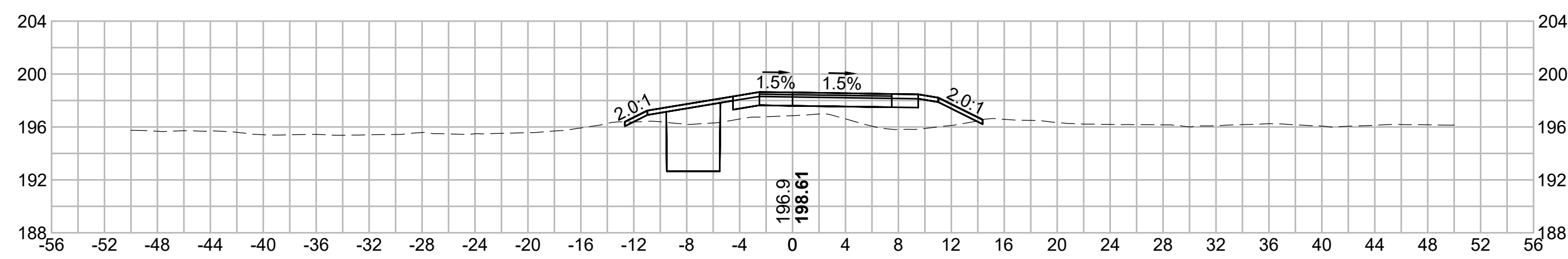


361+50

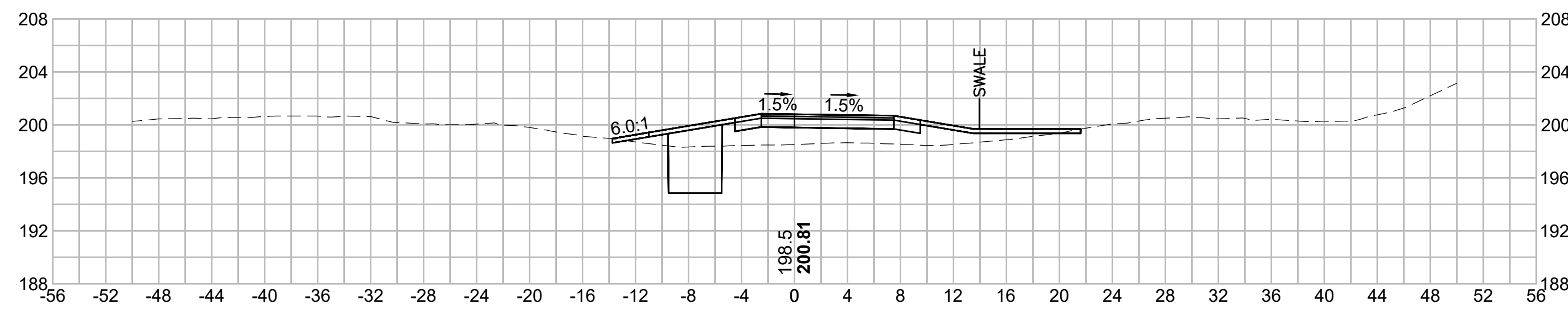


CITY OF MARLBOROUGH
TOWN OF HUDSON

359+50



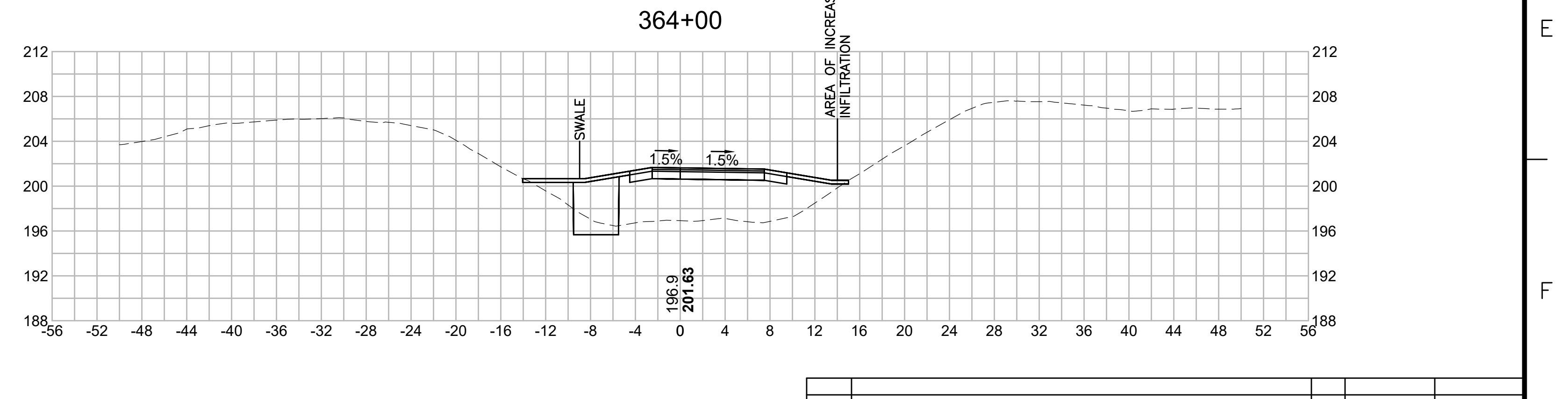
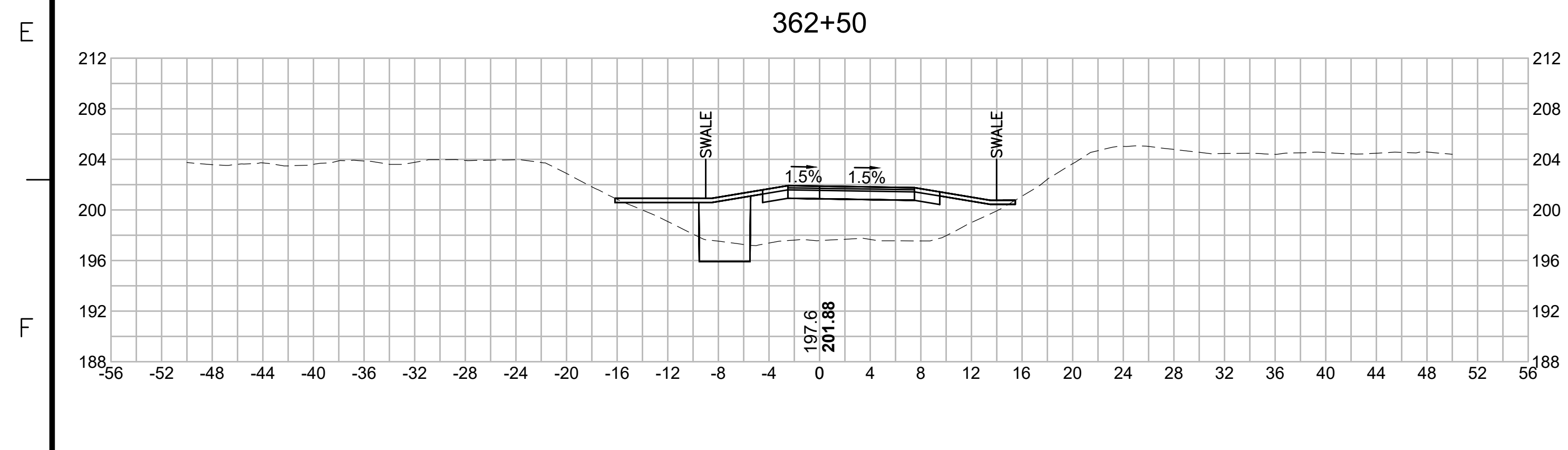
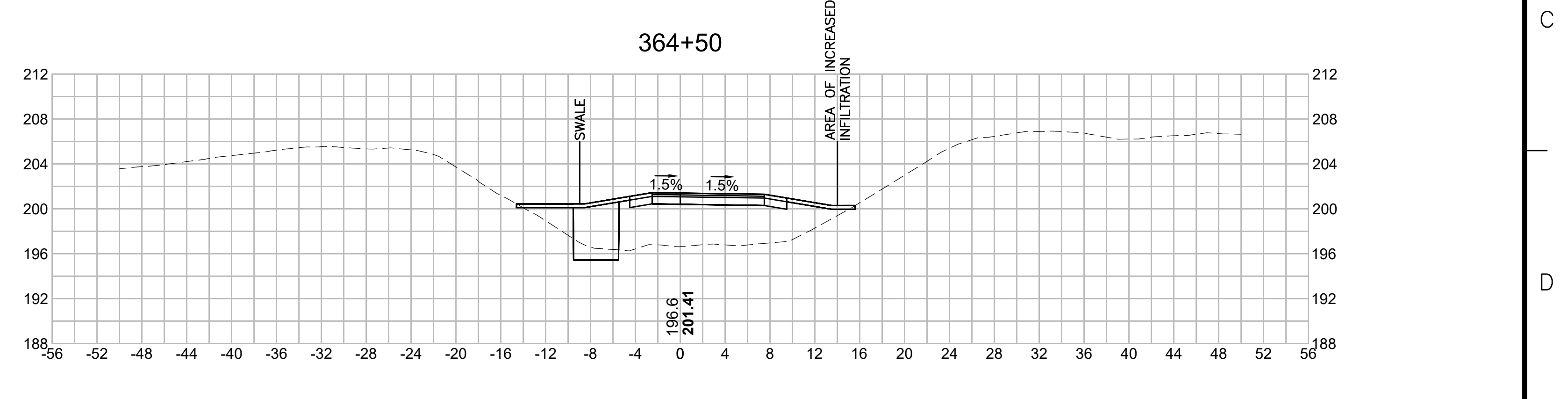
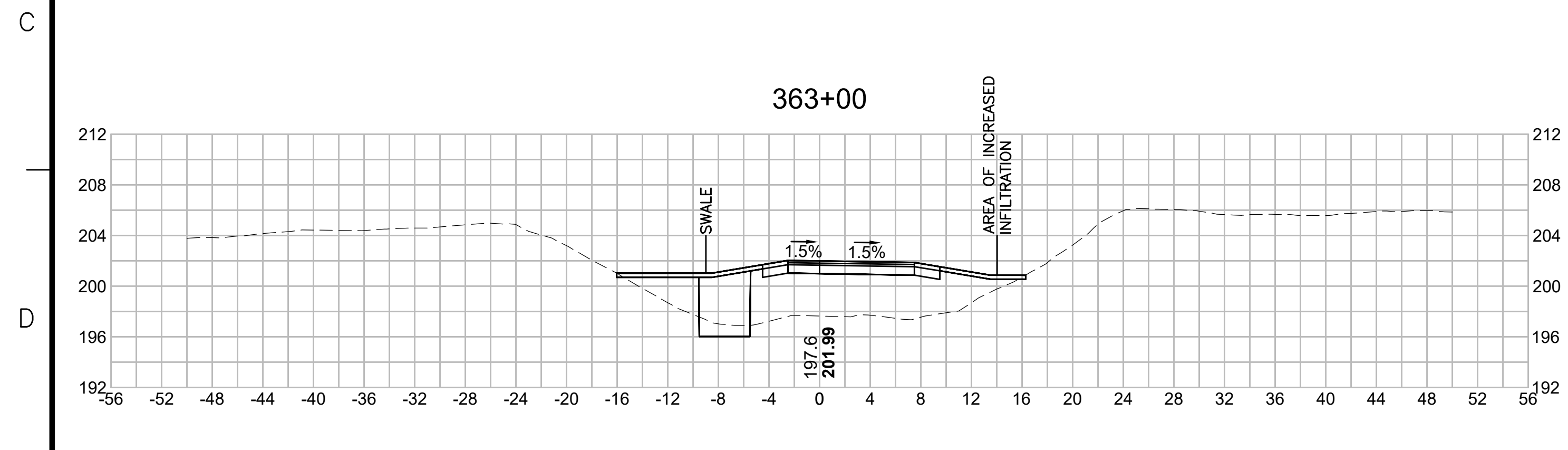
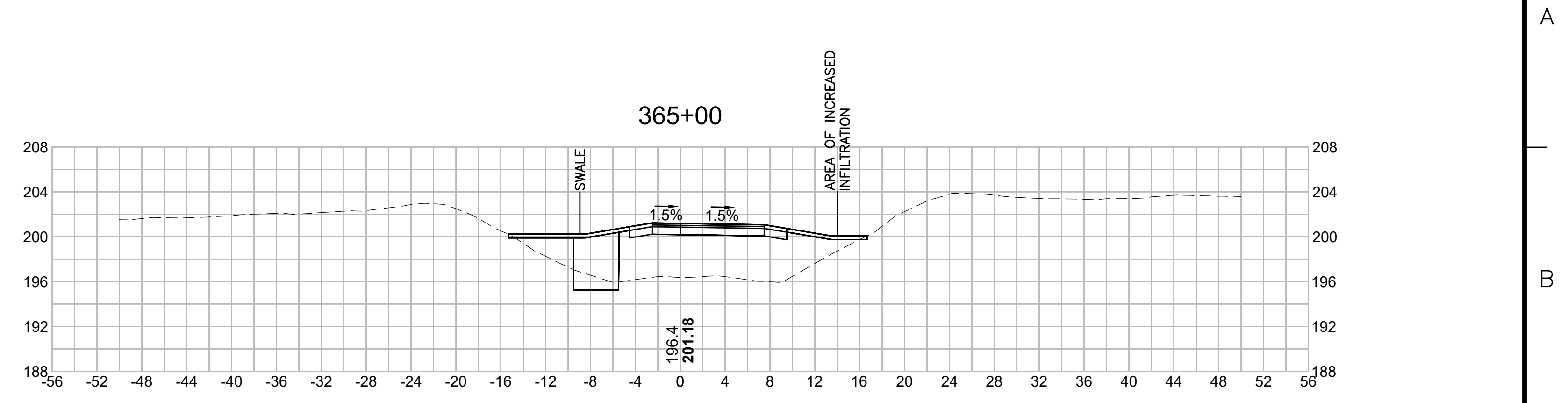
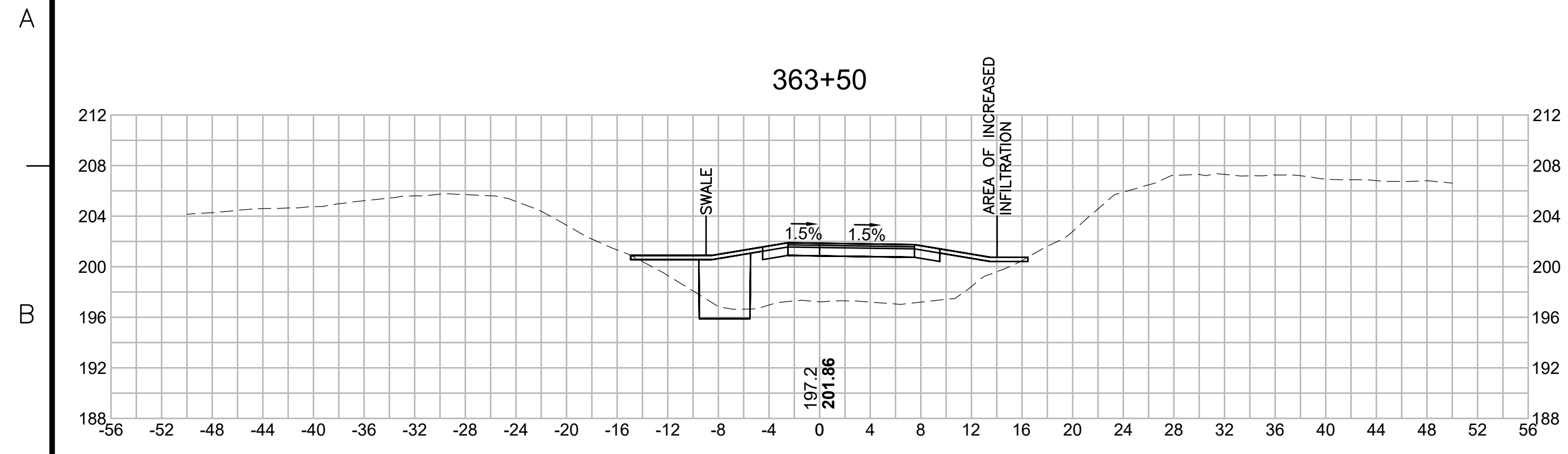
361+00



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 265 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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NO.		DESCRIPTION		BY		DATE		APPR.	
REVISION									
EVERSOURCE									
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS									
CROSS SECTIONS									
PLAN 266 OF 348									
SCALE: unless noted 1"=8'		DATE JAN 2021		DRAWN MS		C'H'K D. SK		APPR. MS	
DRAWING NO.		REV.							

1 2 3 4 5 6 7 8 9 10 11

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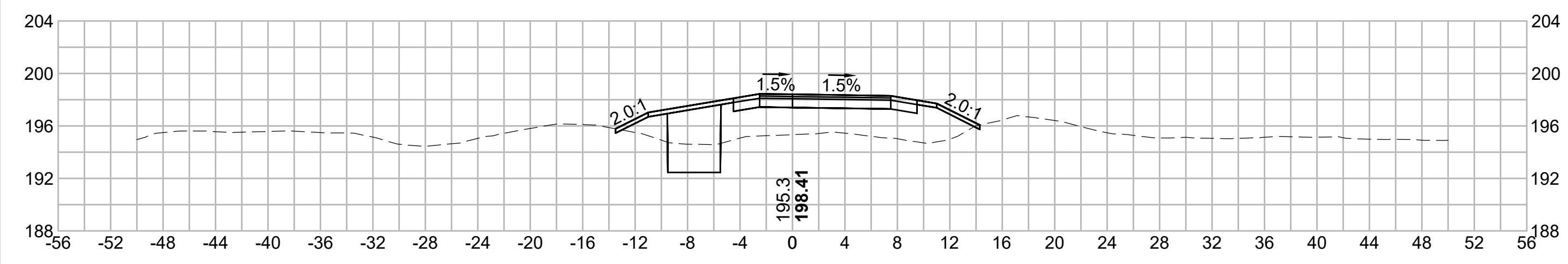
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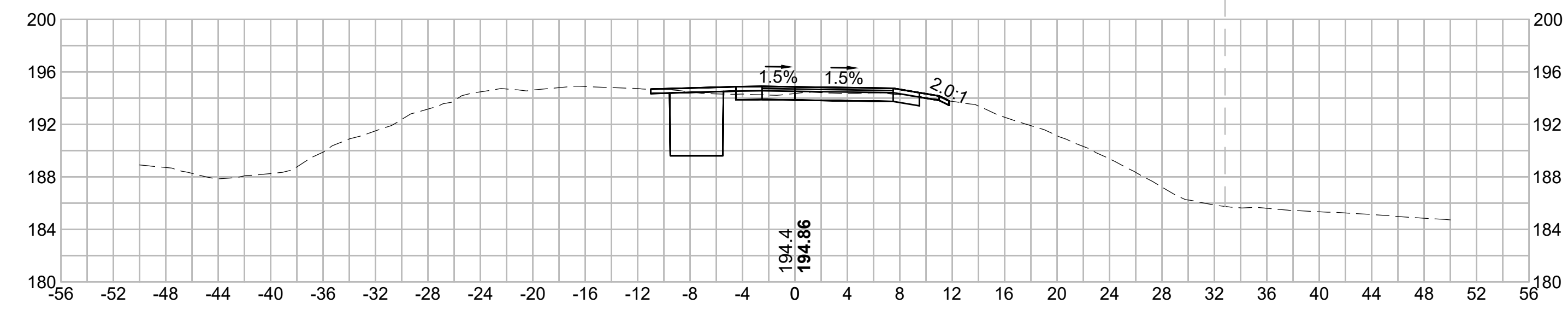
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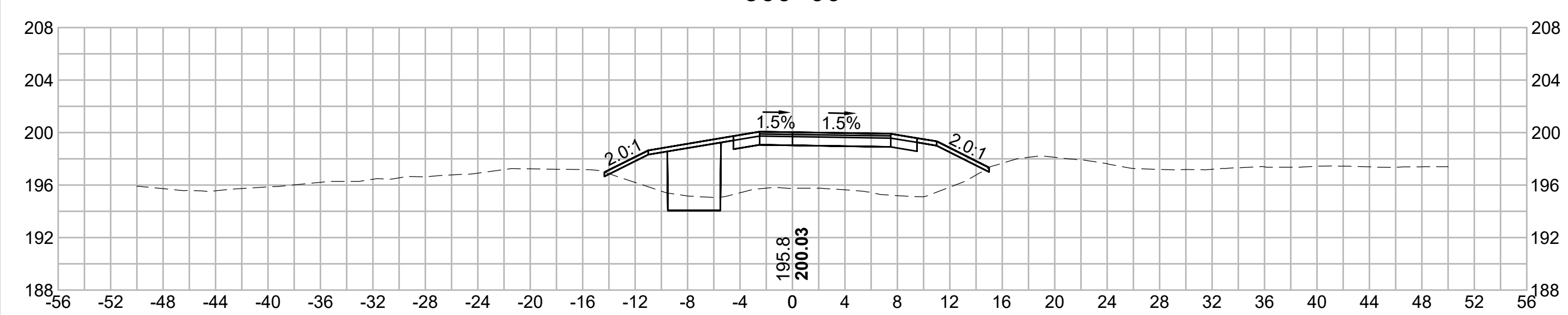
366+50



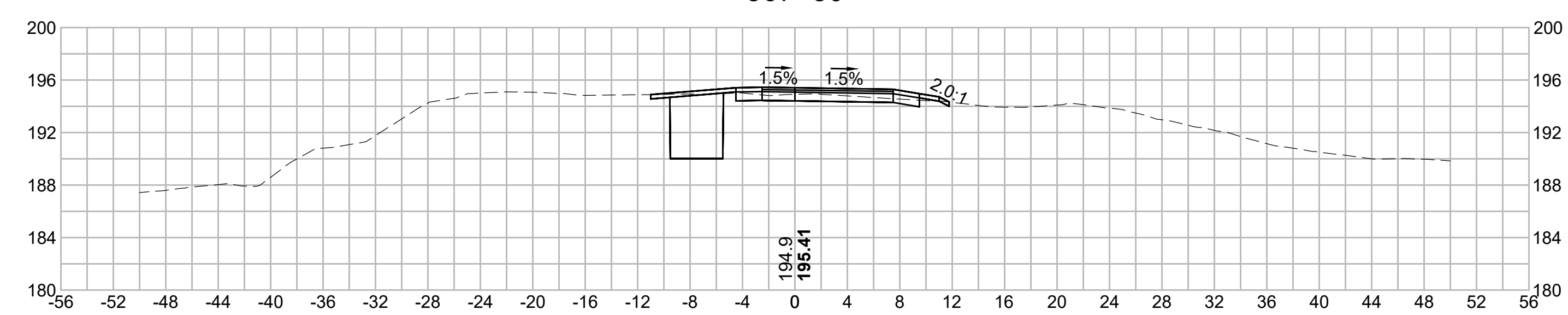
368+00



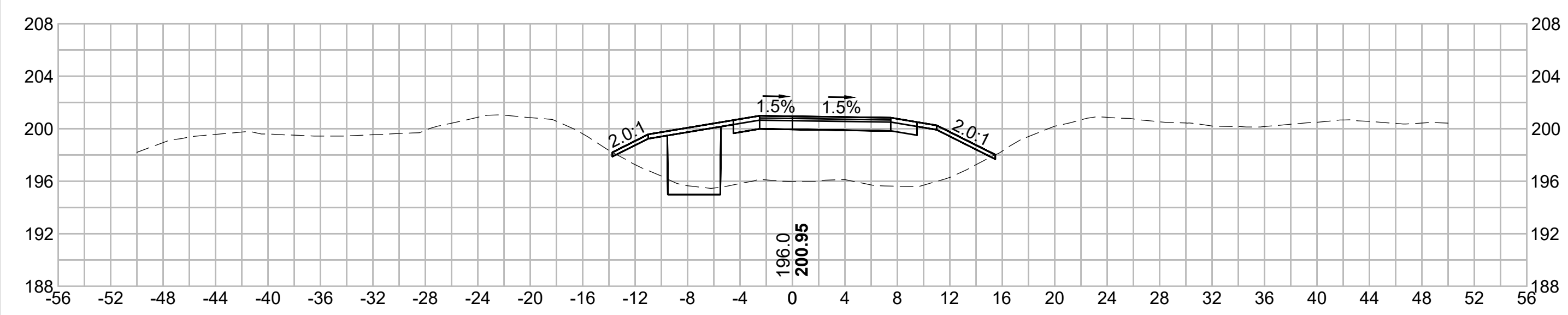
366+00



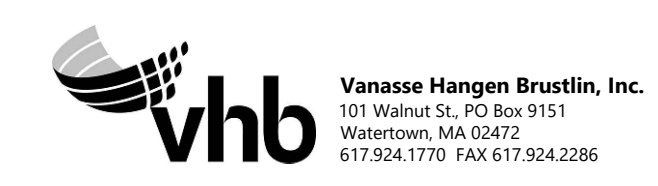
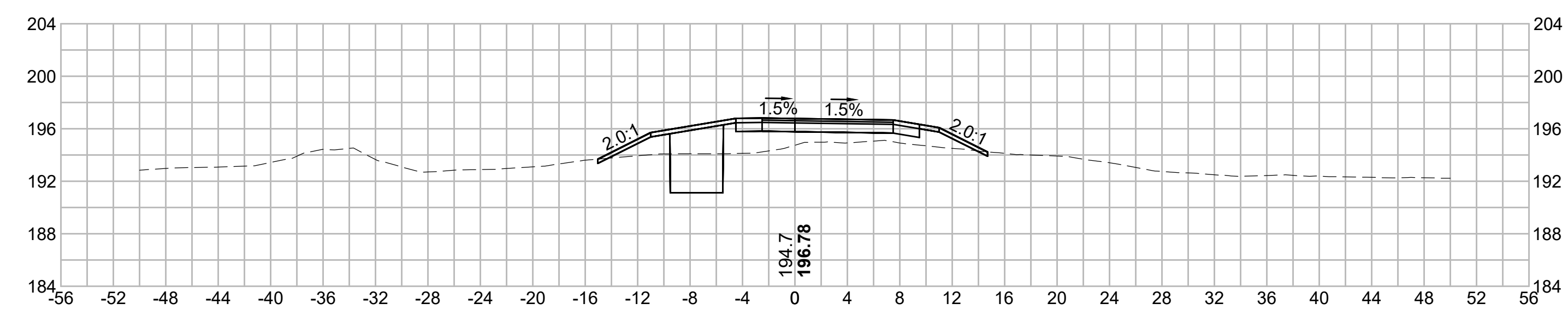
367+50



365+50



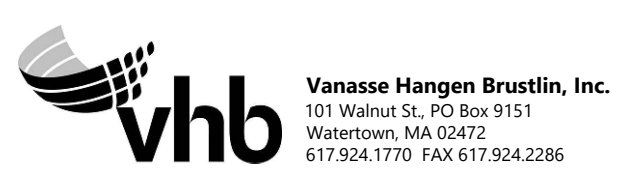
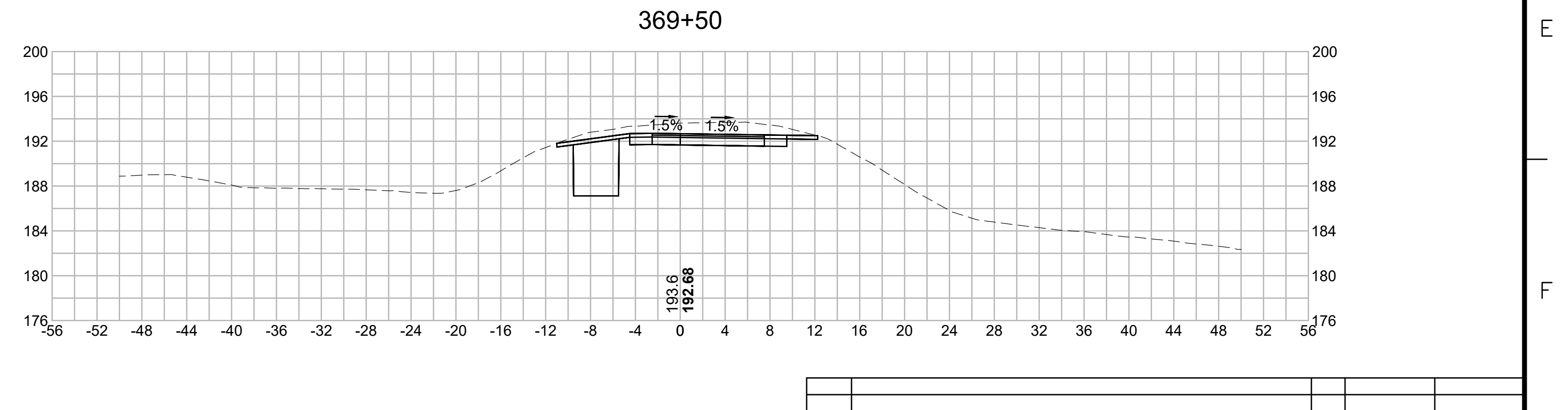
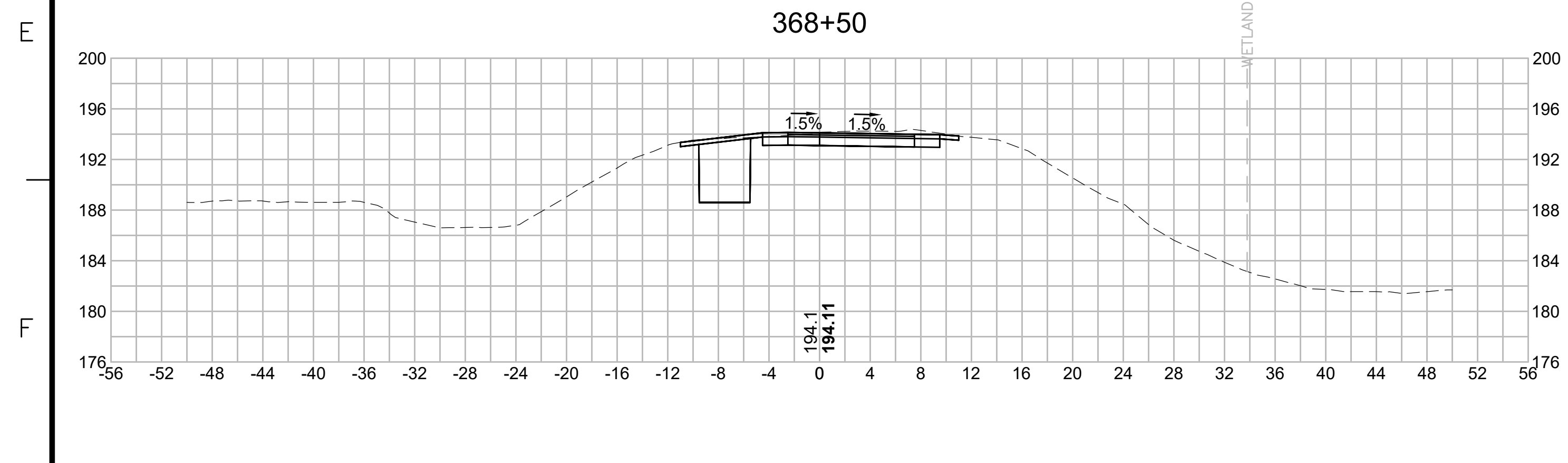
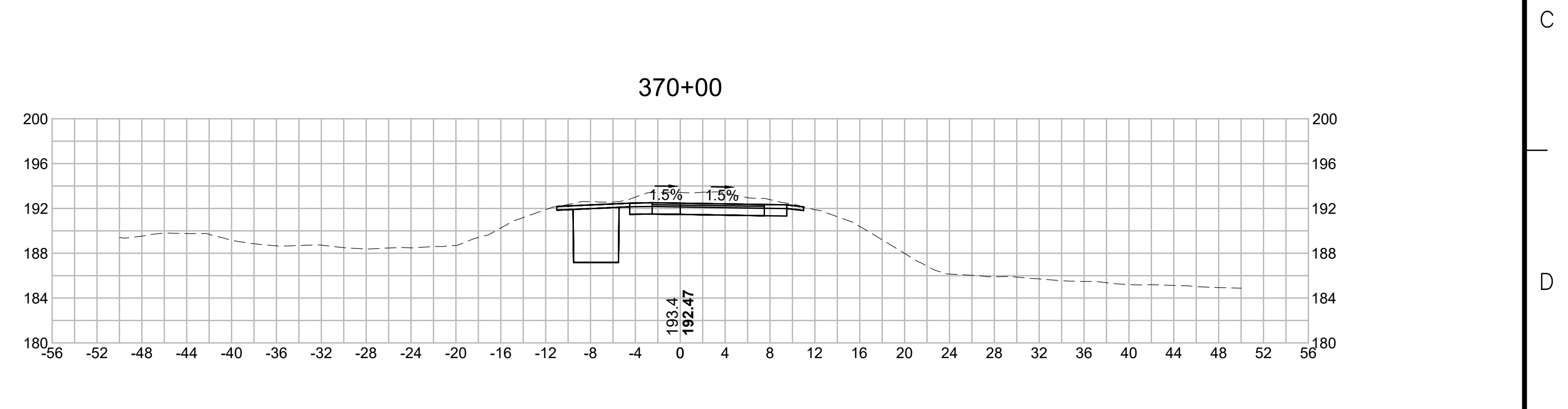
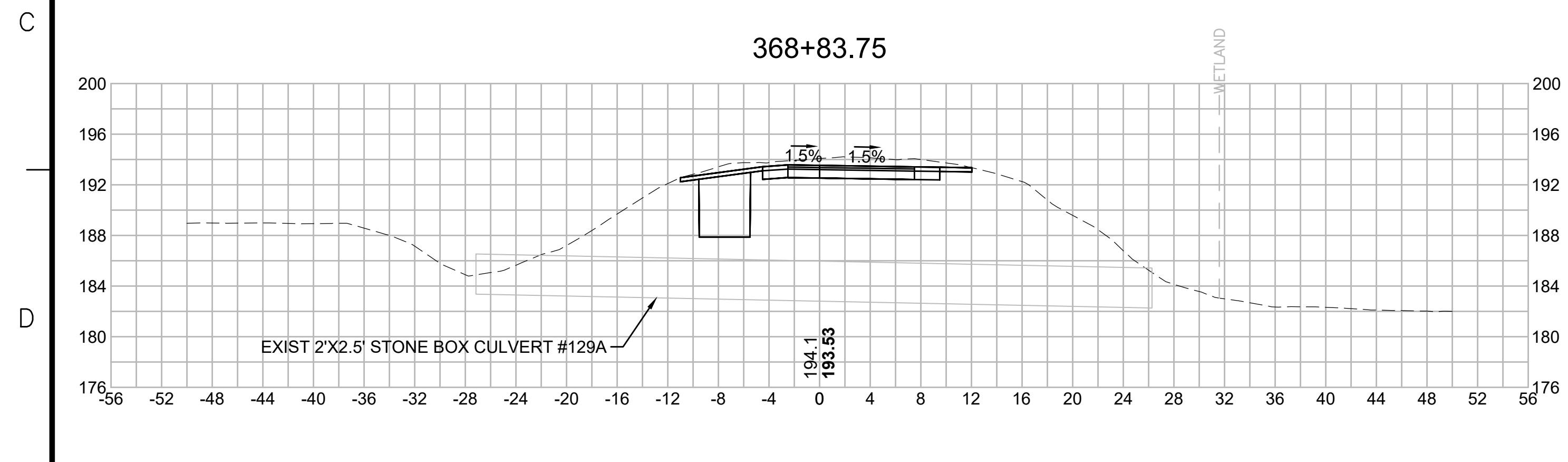
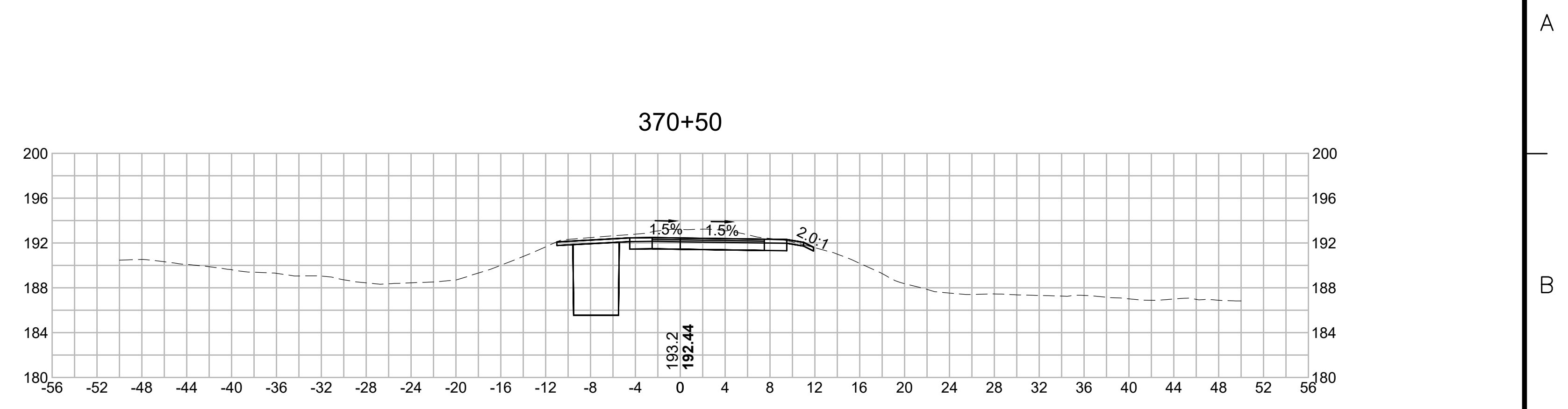
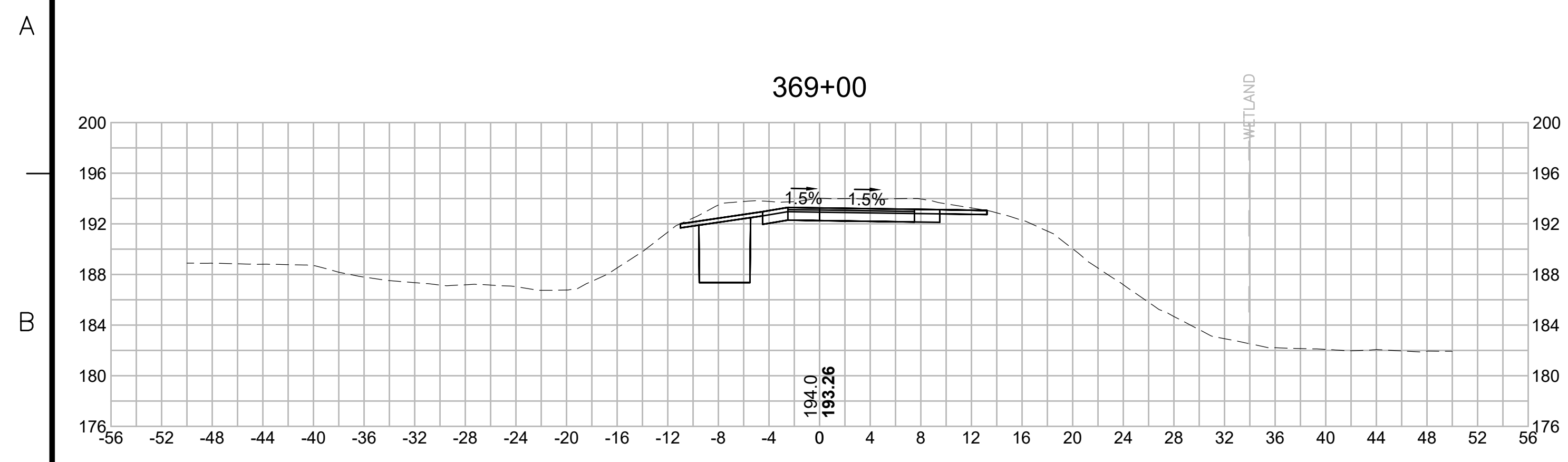
367+00



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 267 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS
 PLAN 268 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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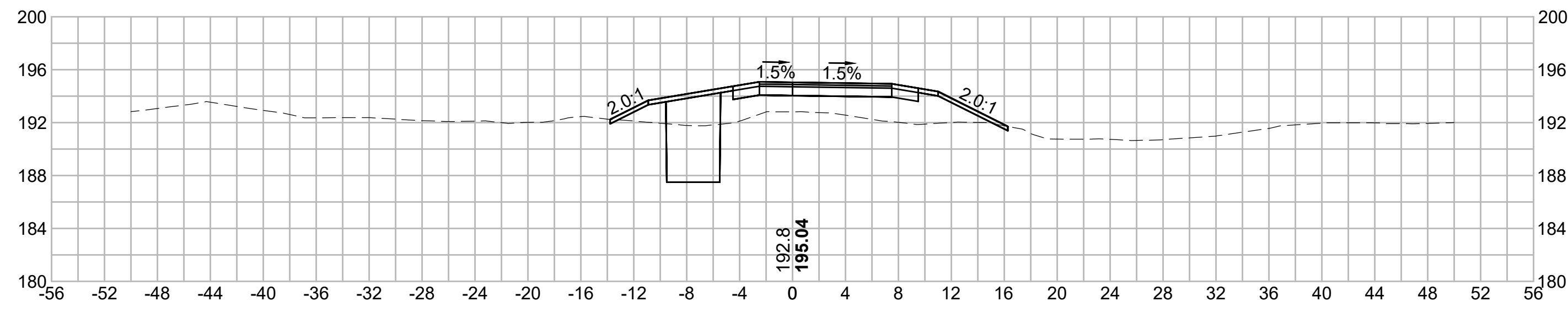
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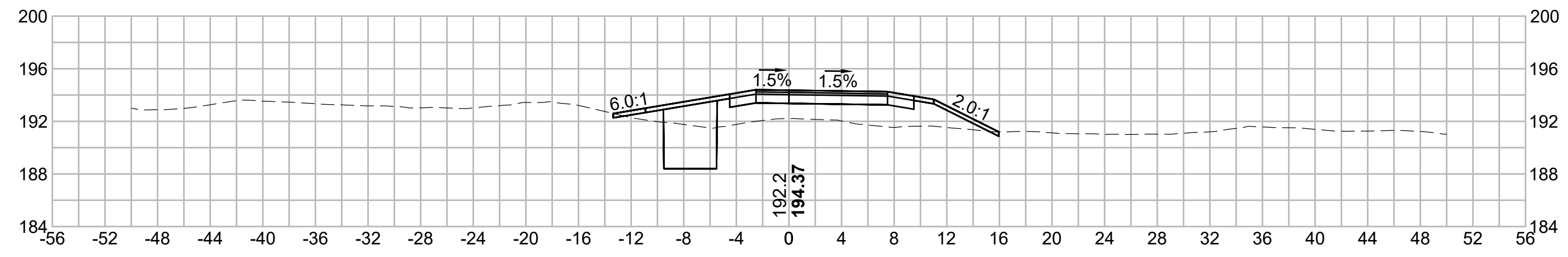
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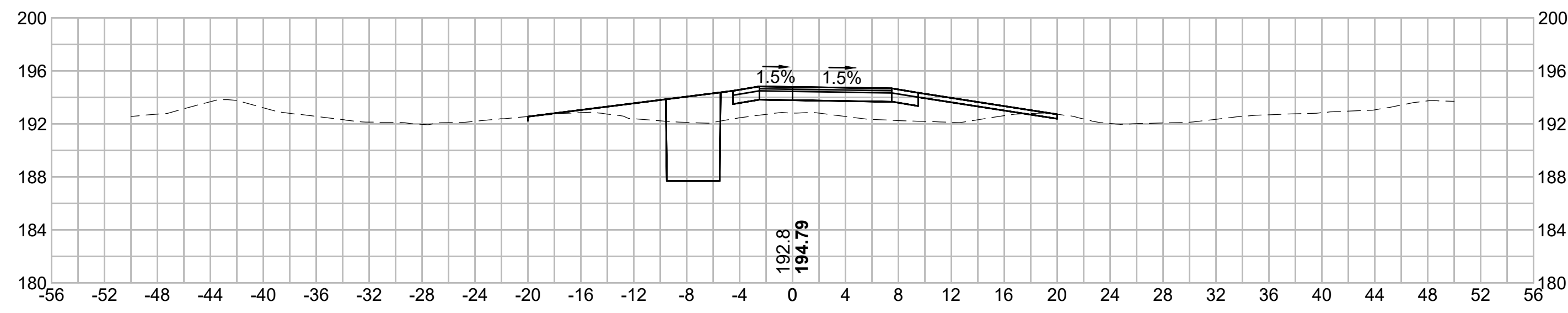
372+00



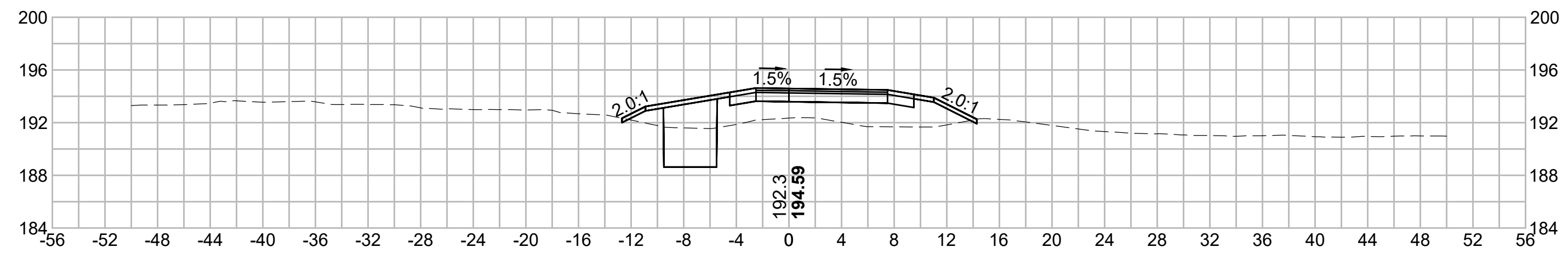
373+50



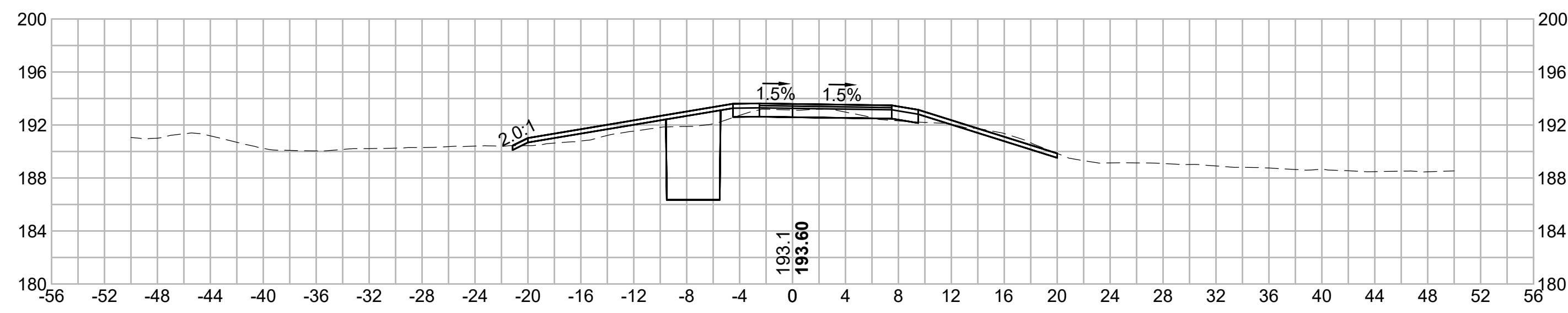
371+50



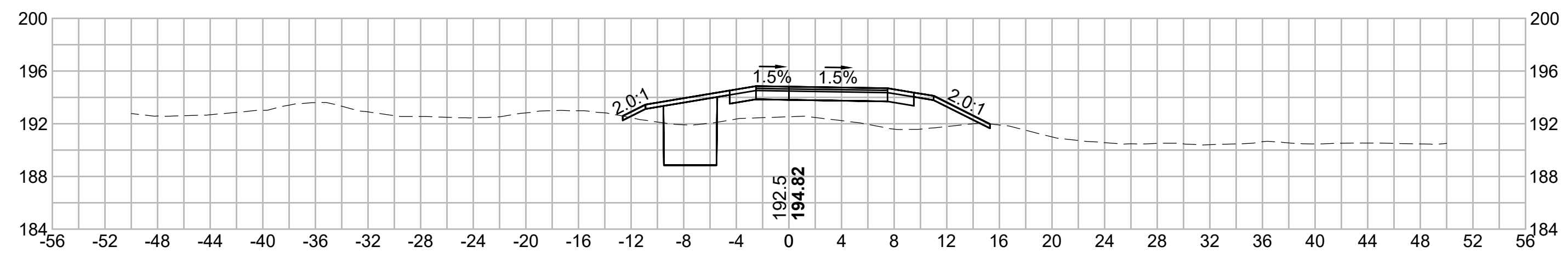
373+00



371+00



372+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 269 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECK D. SK	APPR. MES
DRAWING NO.	REV.			

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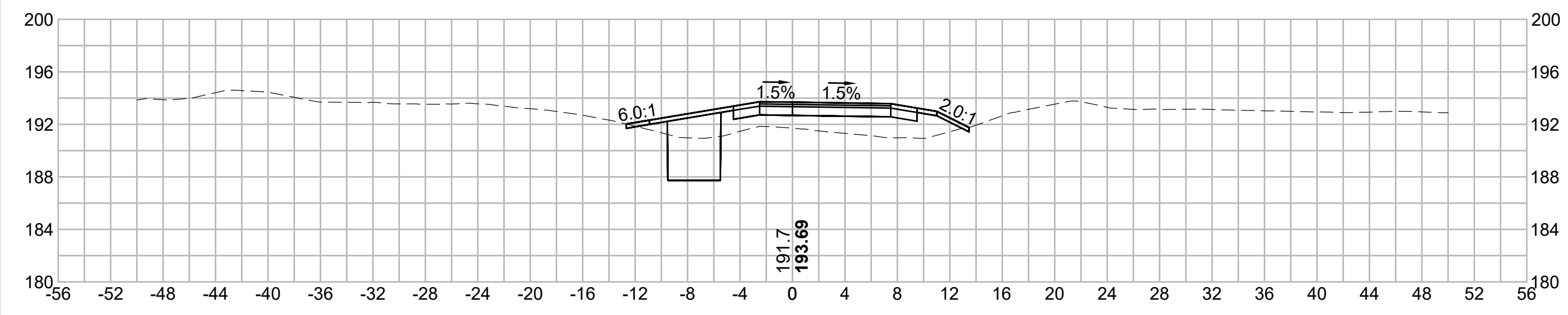
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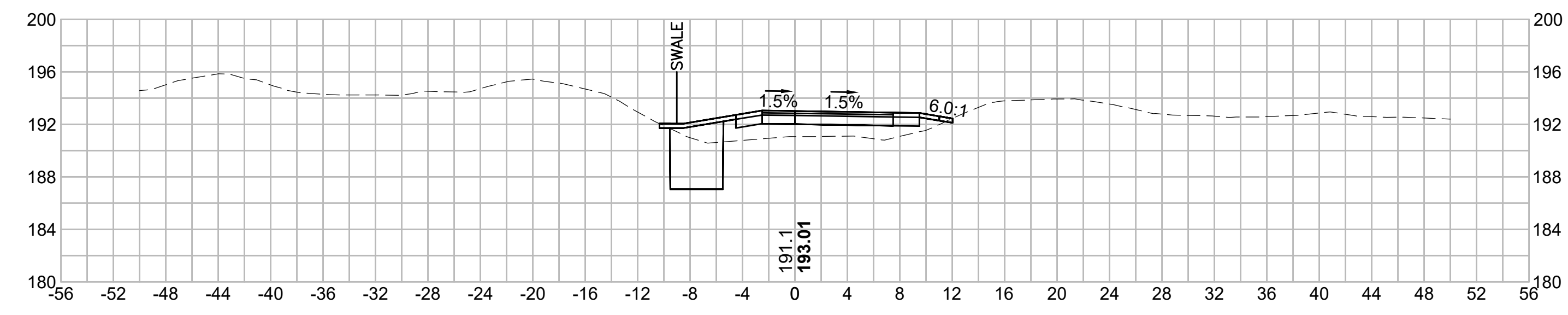
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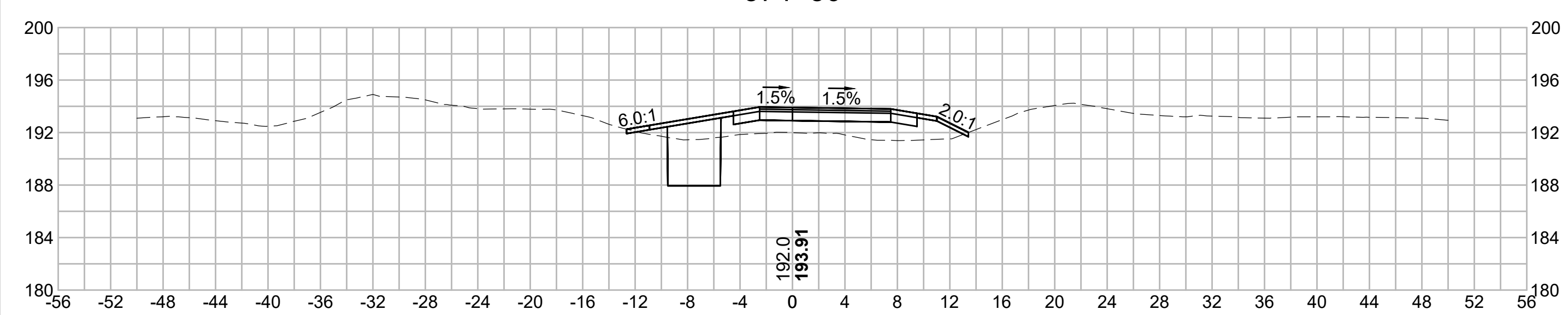
375+00



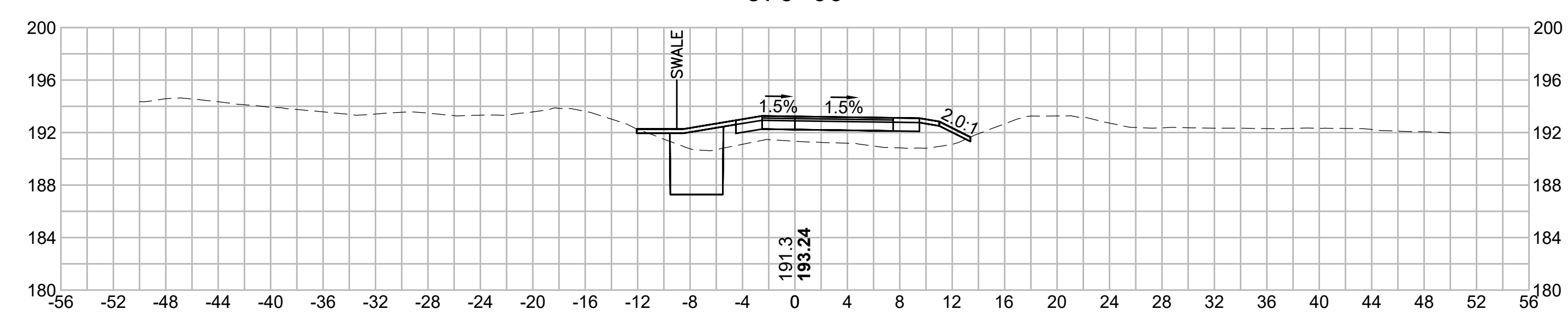
376+50



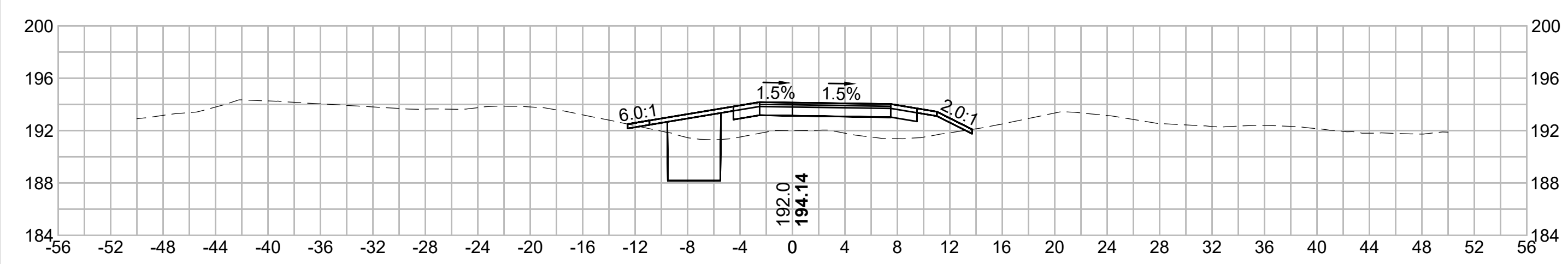
374+50



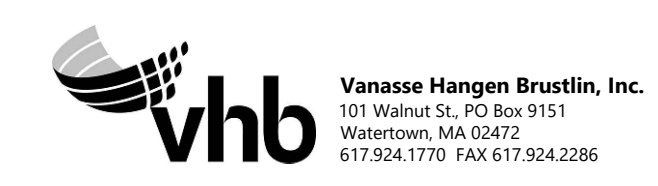
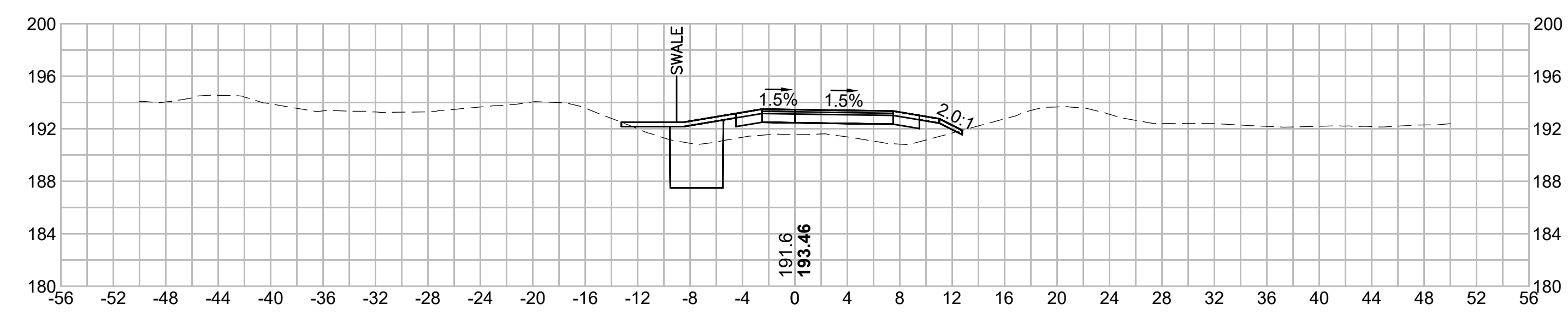
376+00



374+00



375+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 2700F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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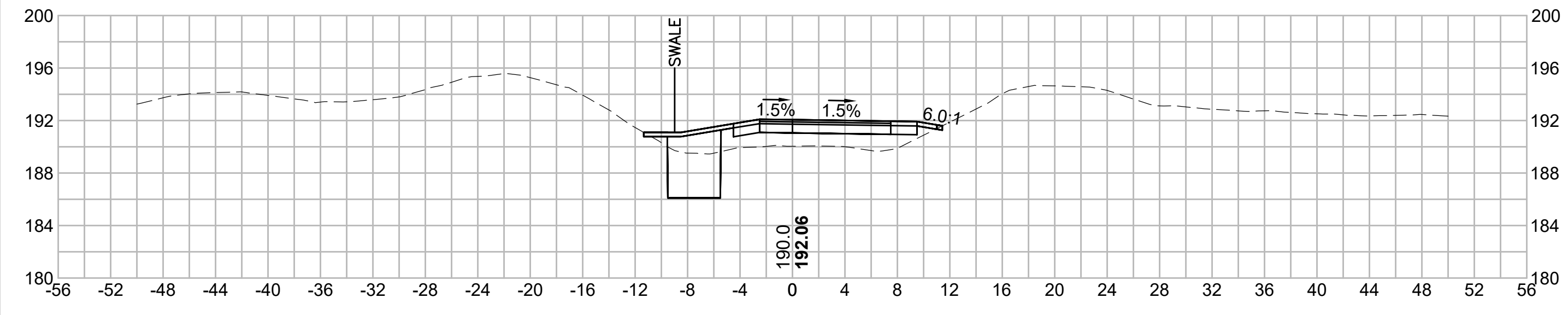
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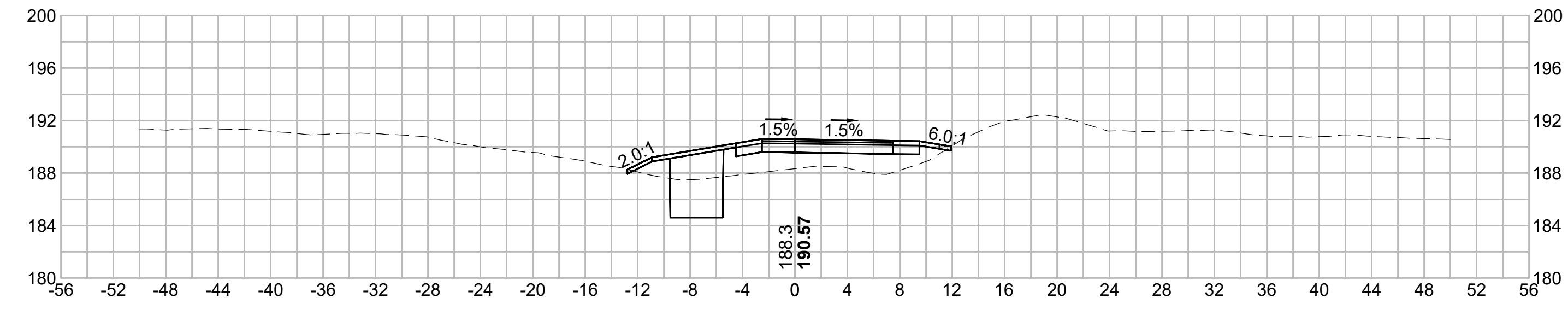
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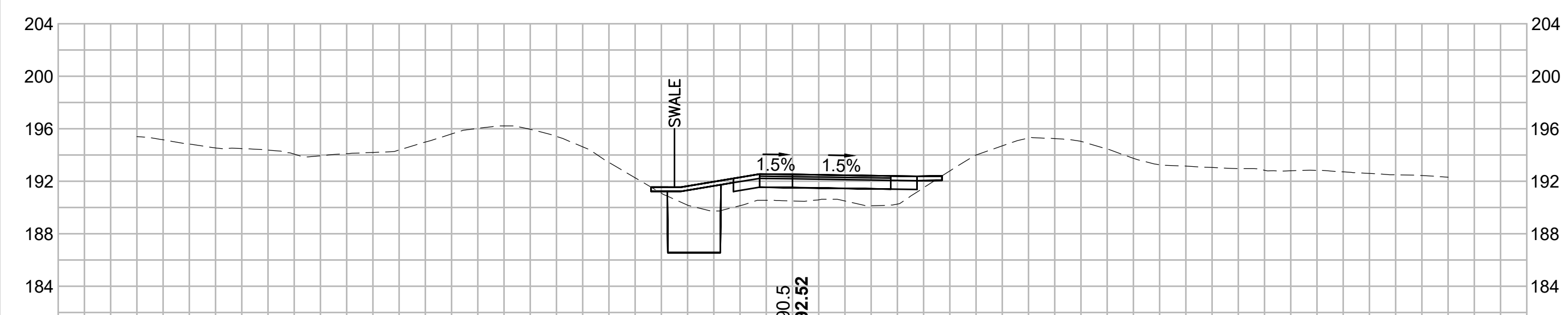
378+00



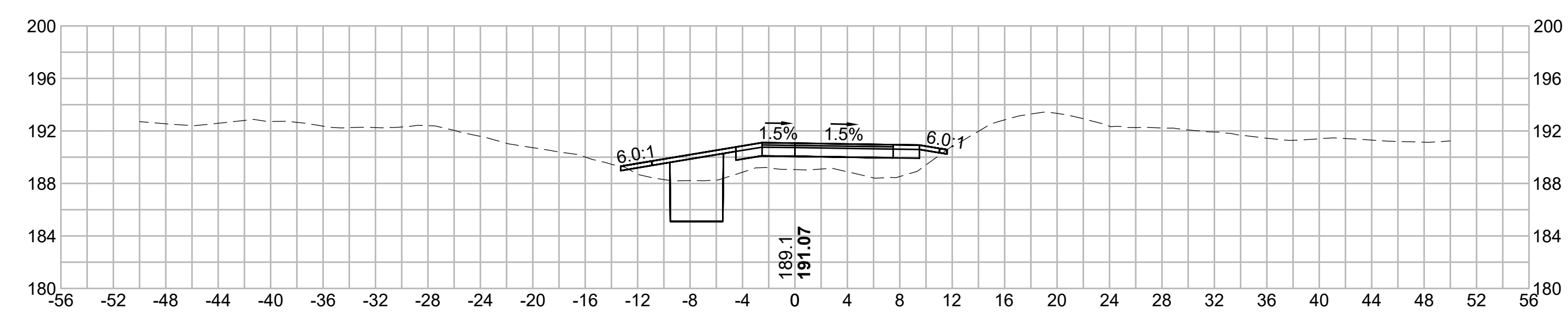
379+50



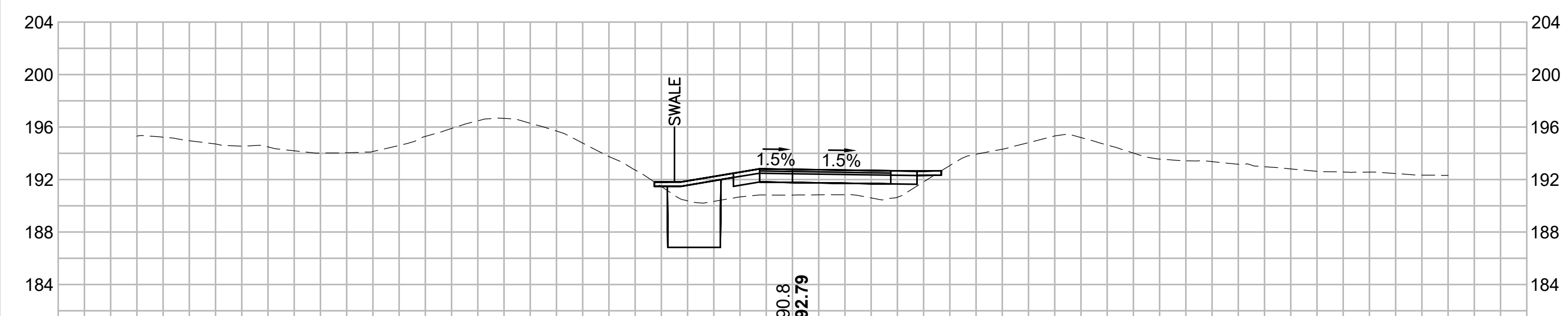
377+50



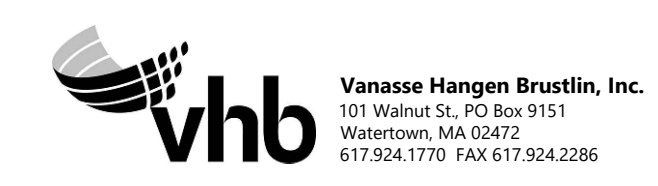
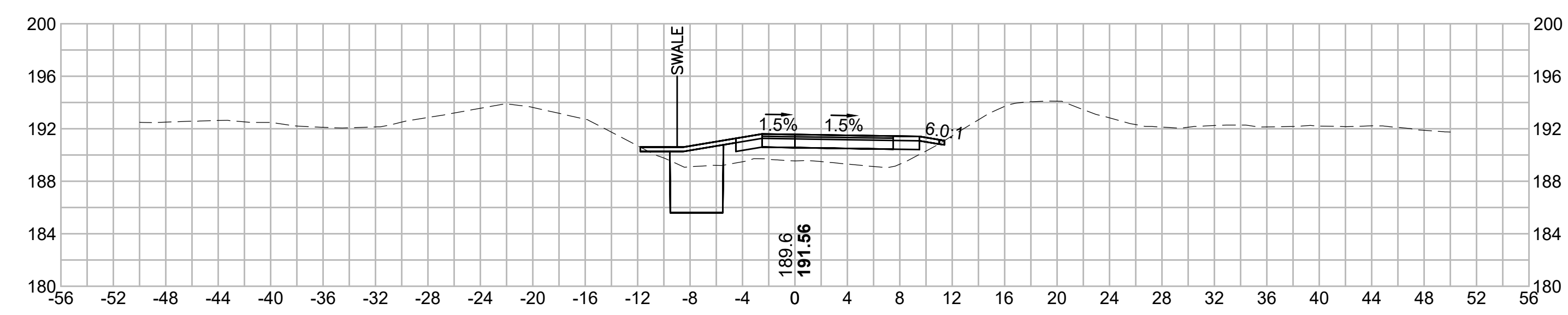
379+00



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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 2710F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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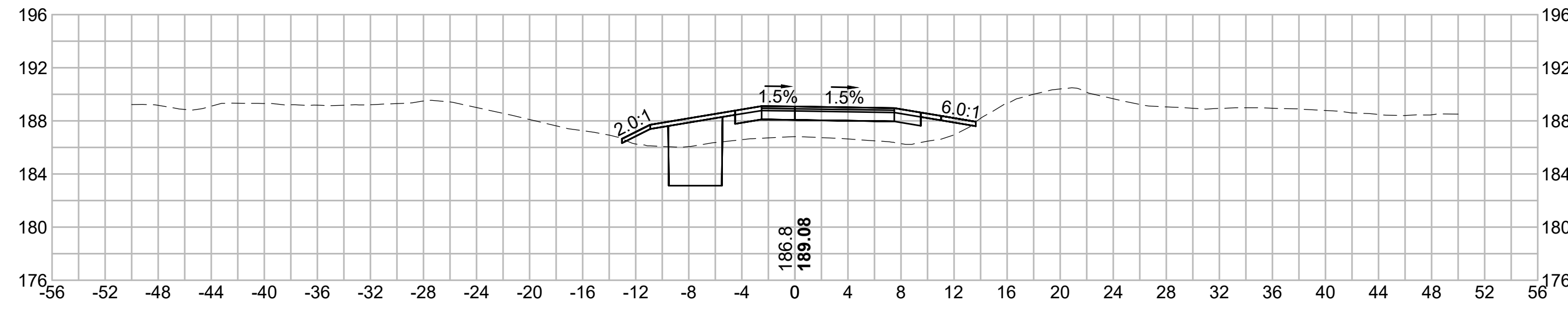
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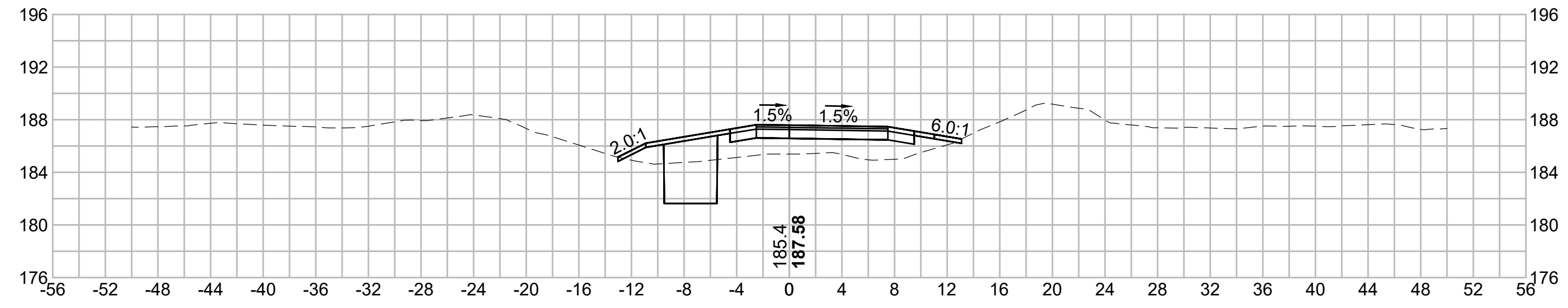
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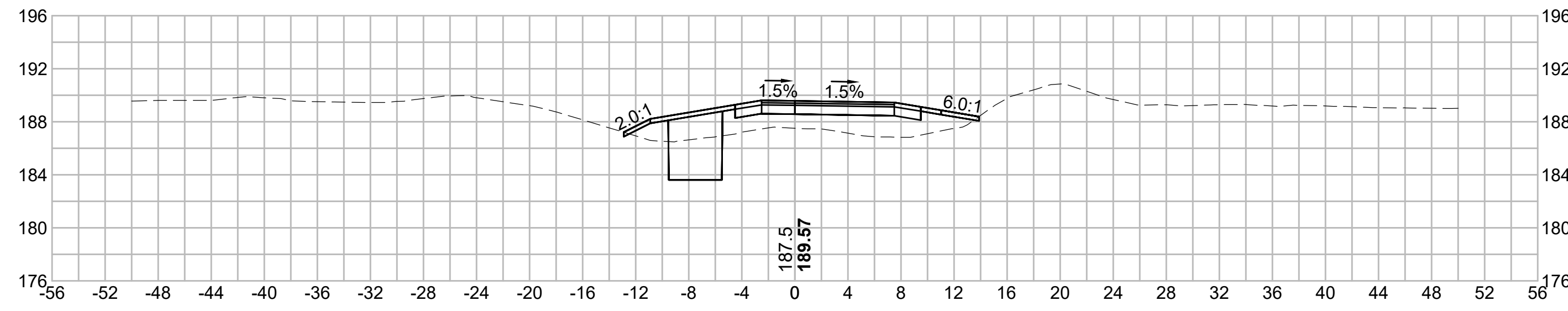
381+00



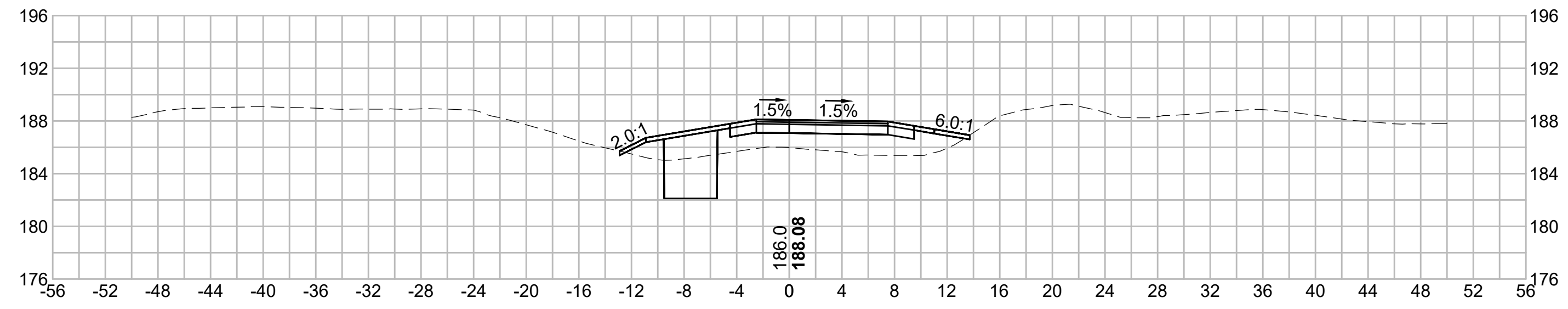
382+50



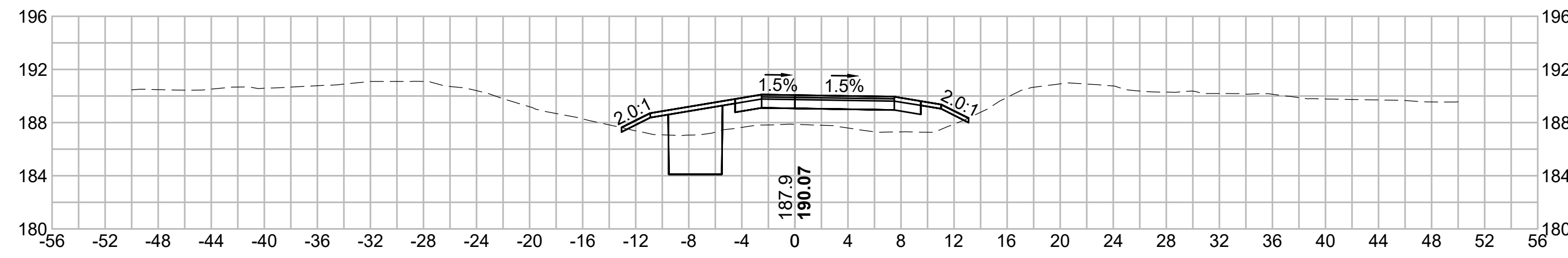
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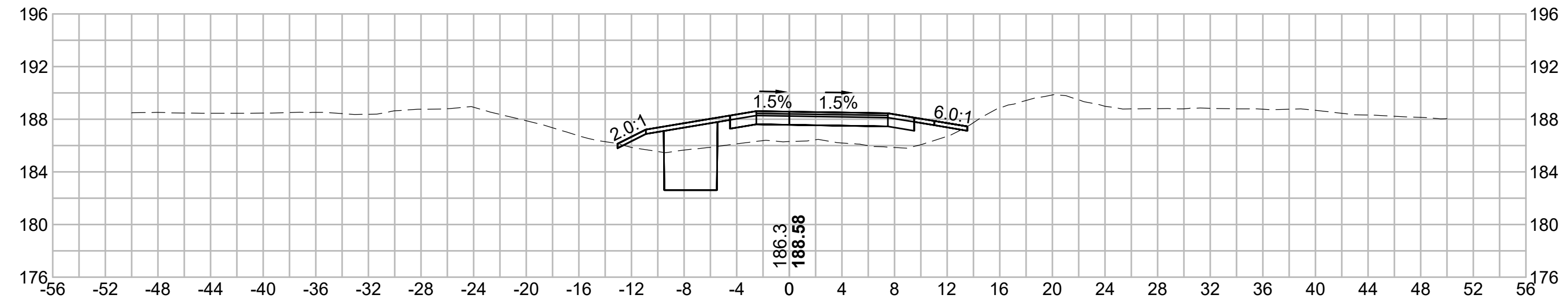
382+00



380+00



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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 272 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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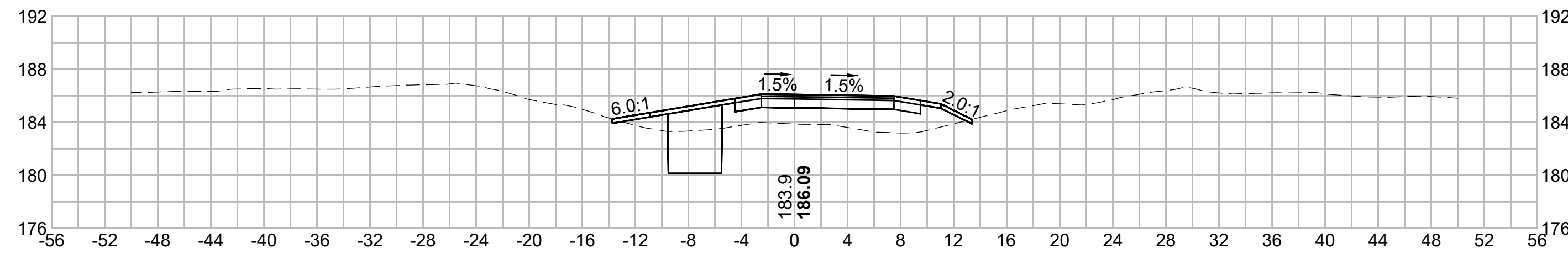
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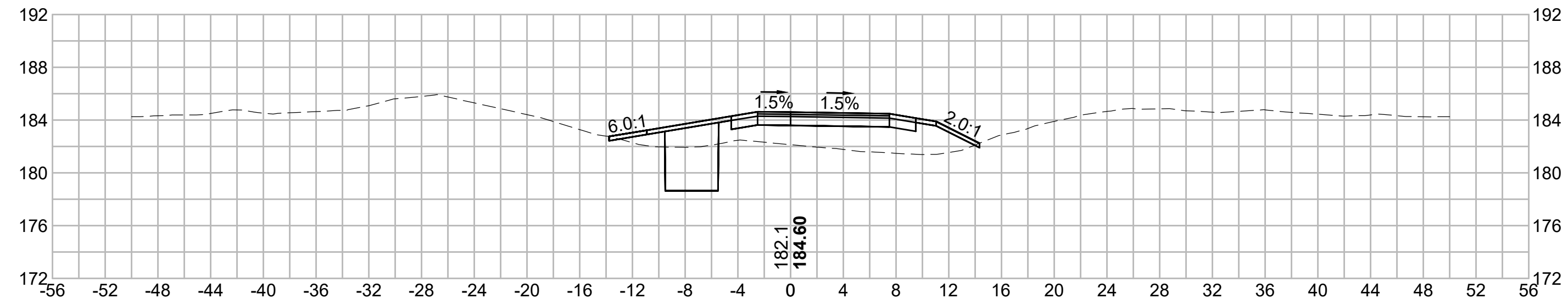
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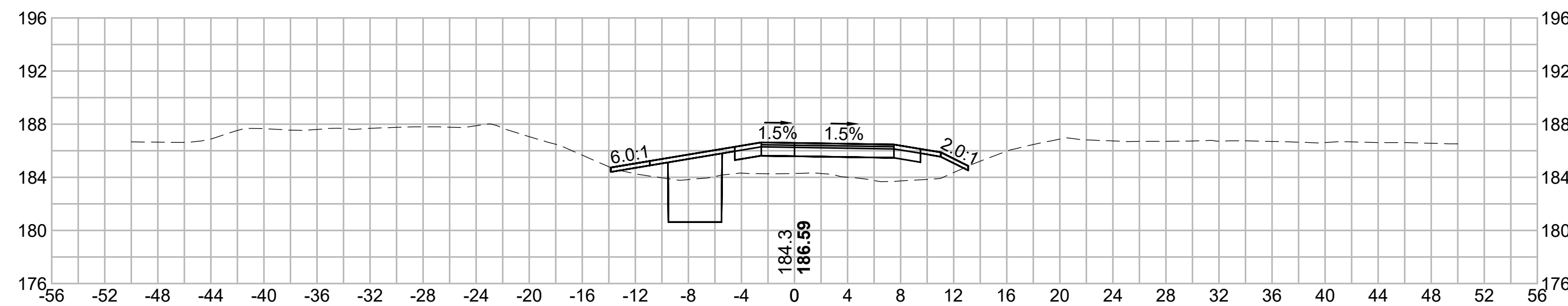
384+00



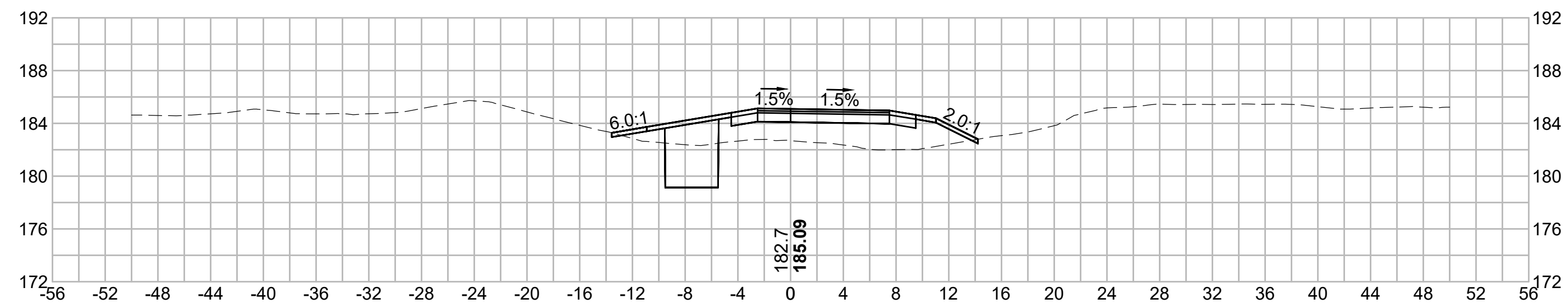
385+50



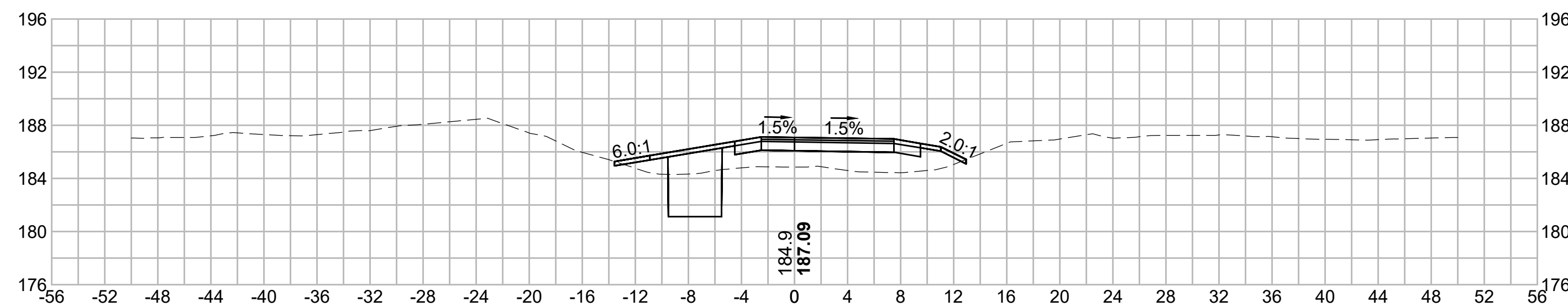
383+50



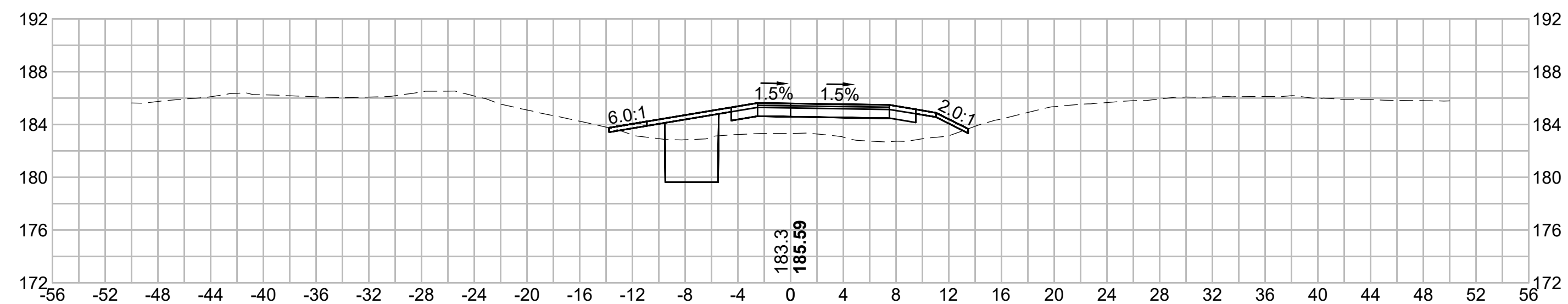
385+00



383+00



384+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 273 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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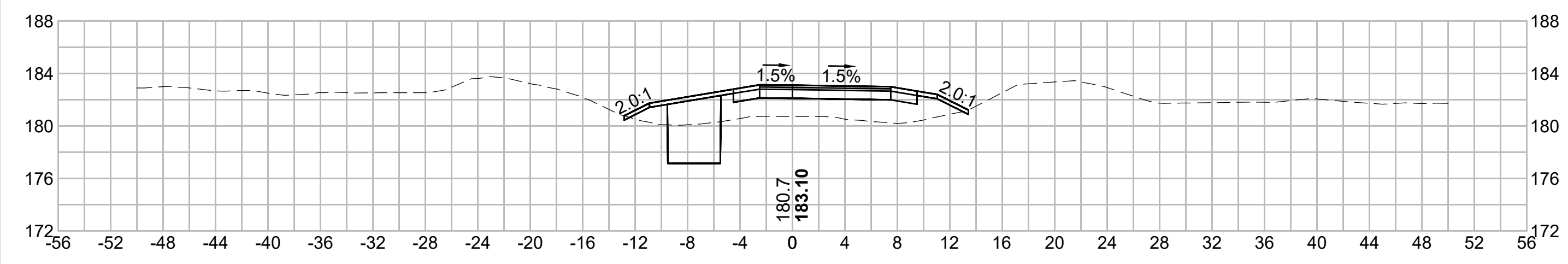
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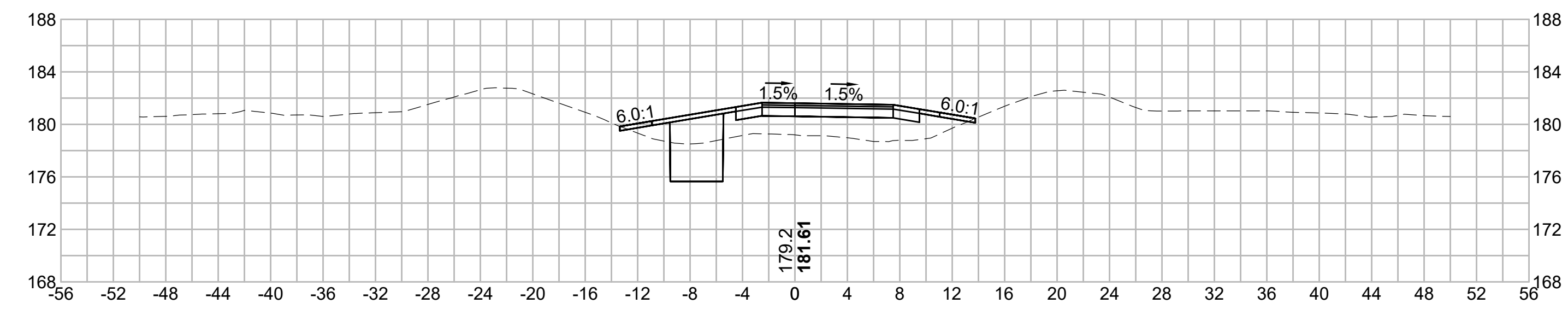
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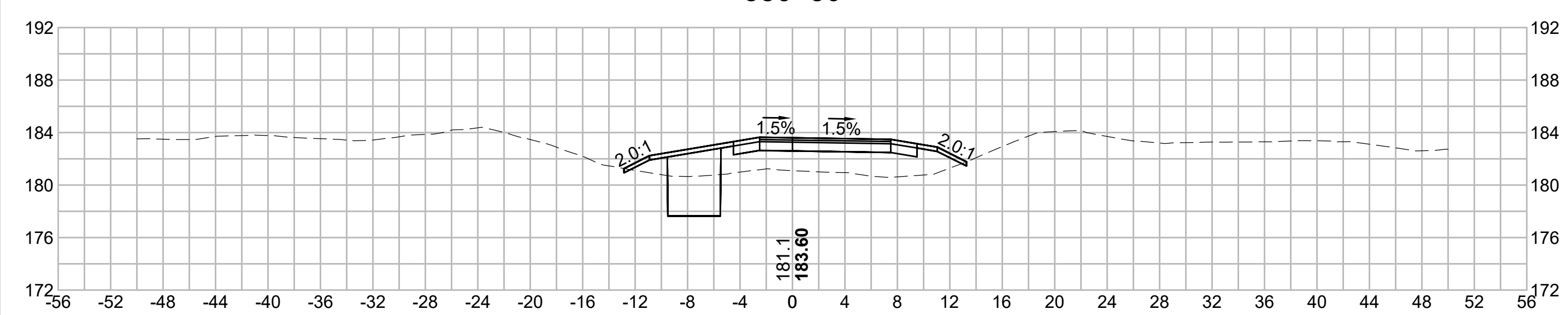
387+00



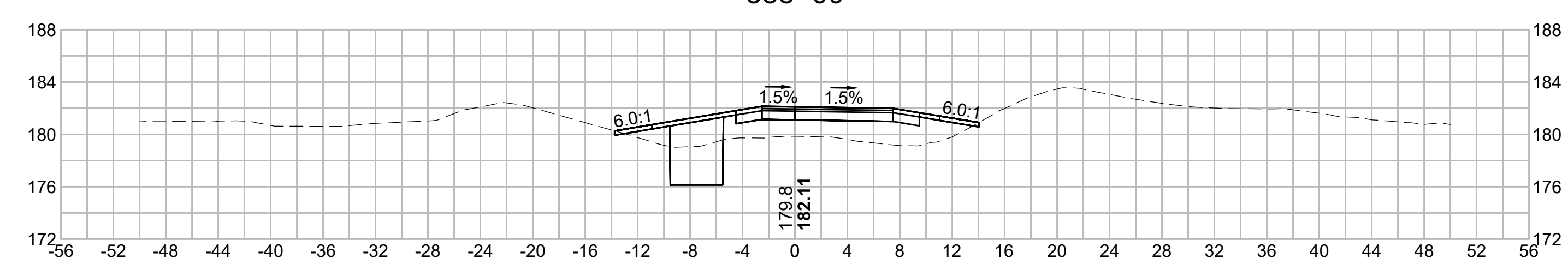
388+50



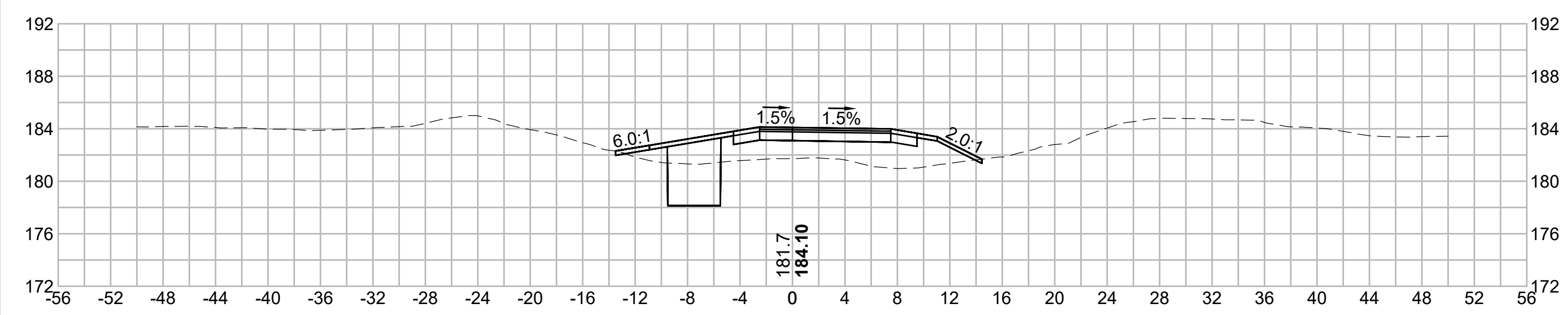
386+50



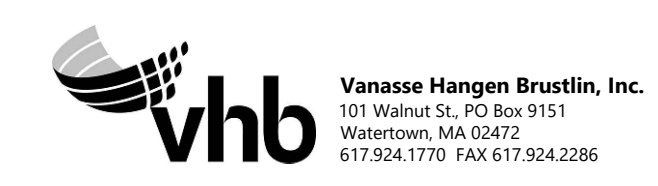
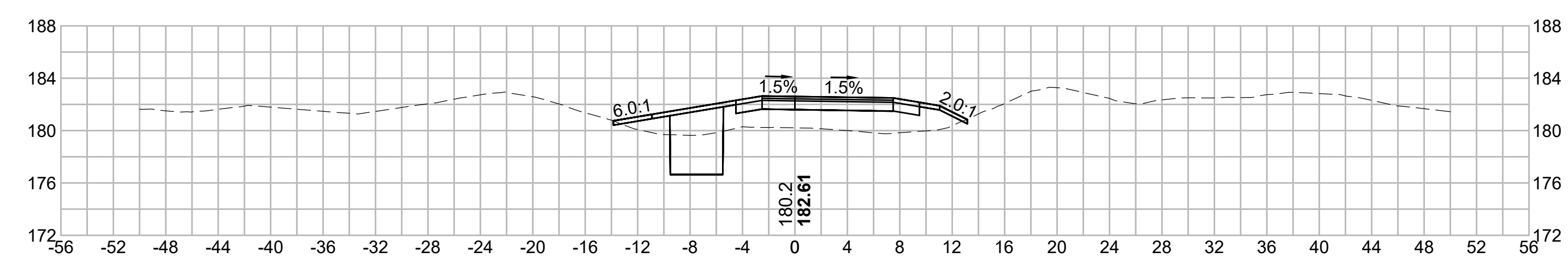
388+00



386+00



387+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 274 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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1 2 3 4 5 6 7 8 9 10 11

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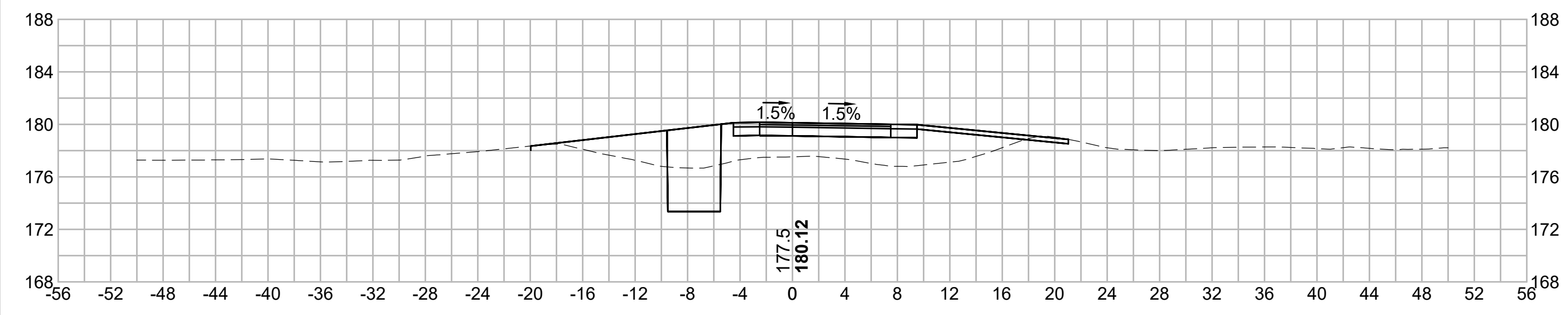
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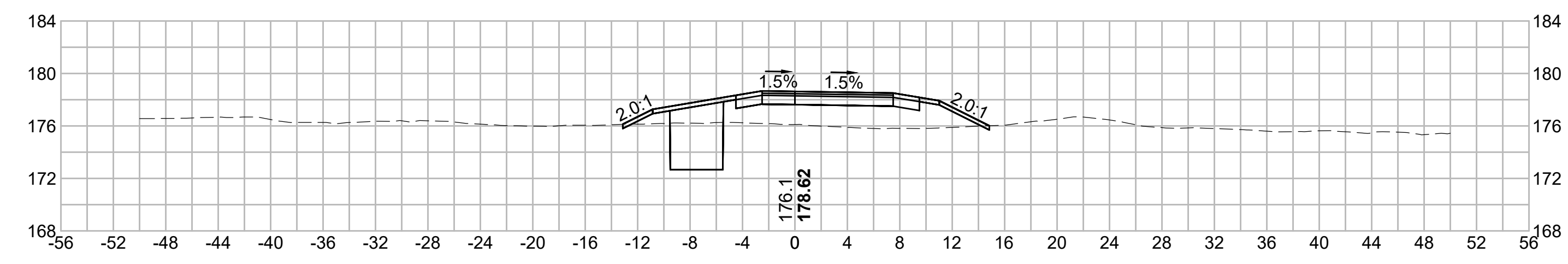
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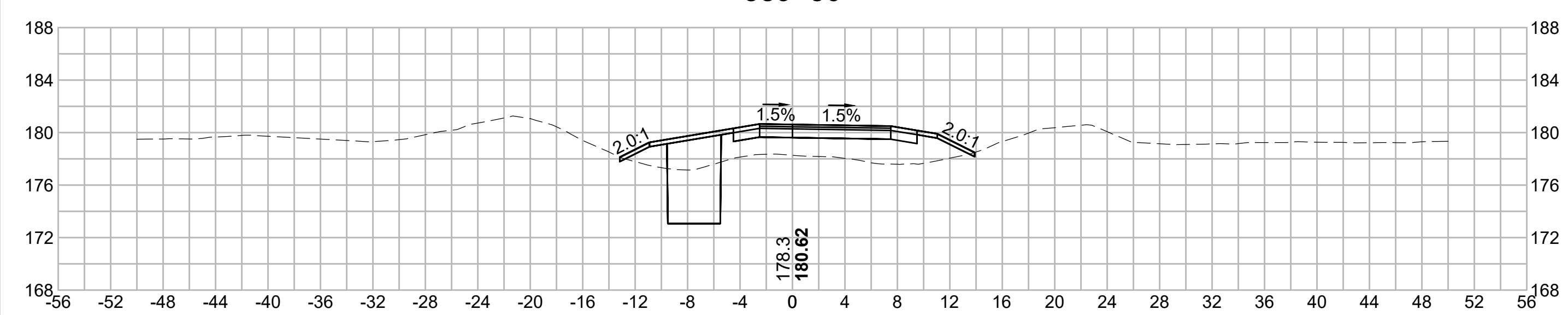
390+00



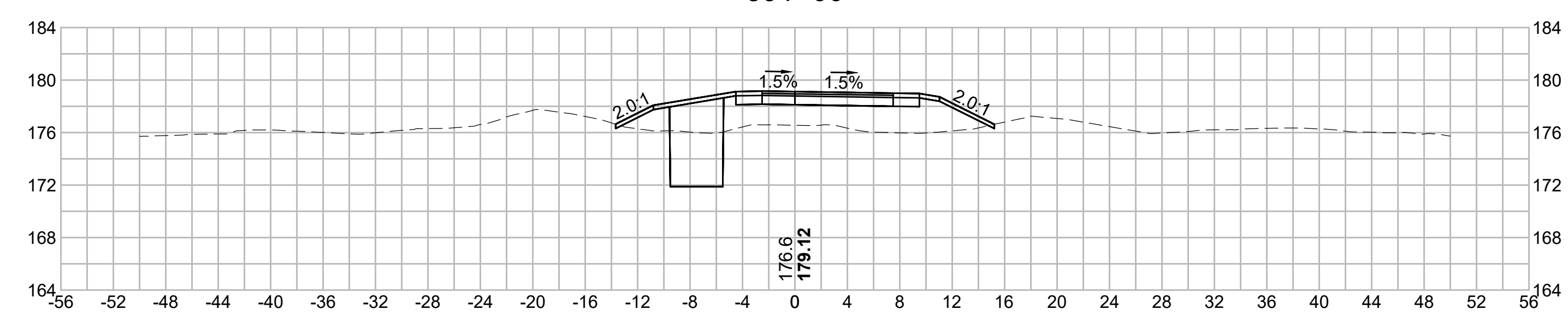
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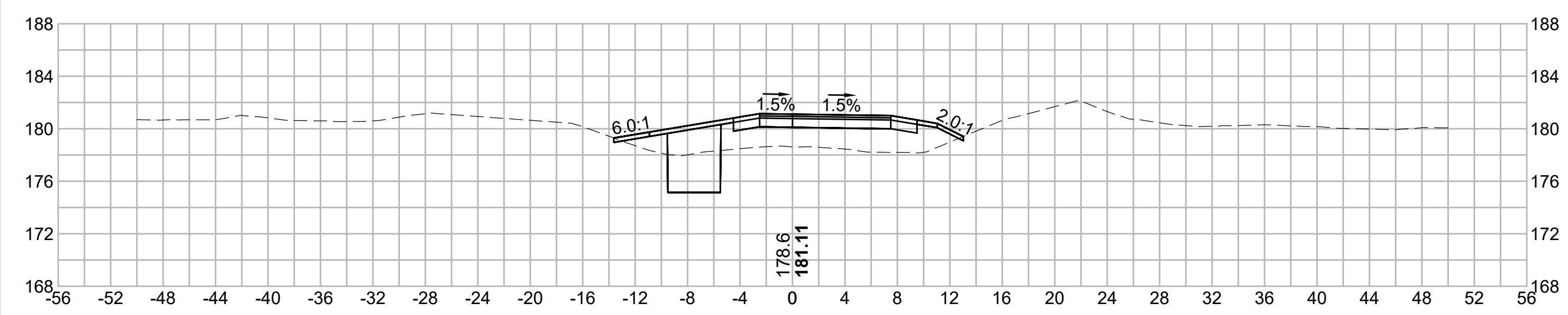
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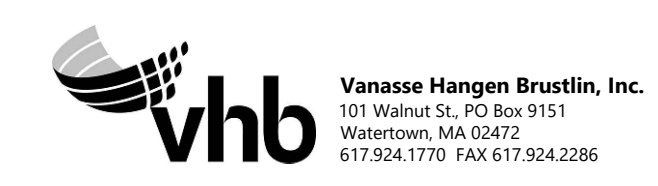
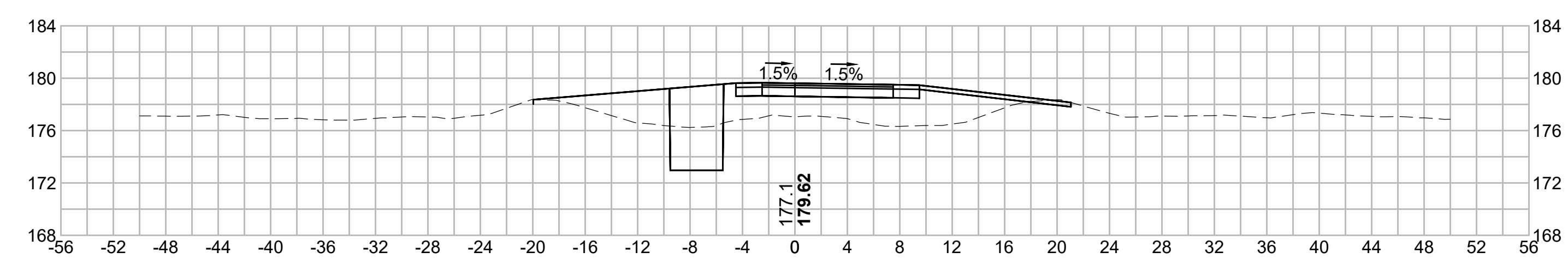
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389+00



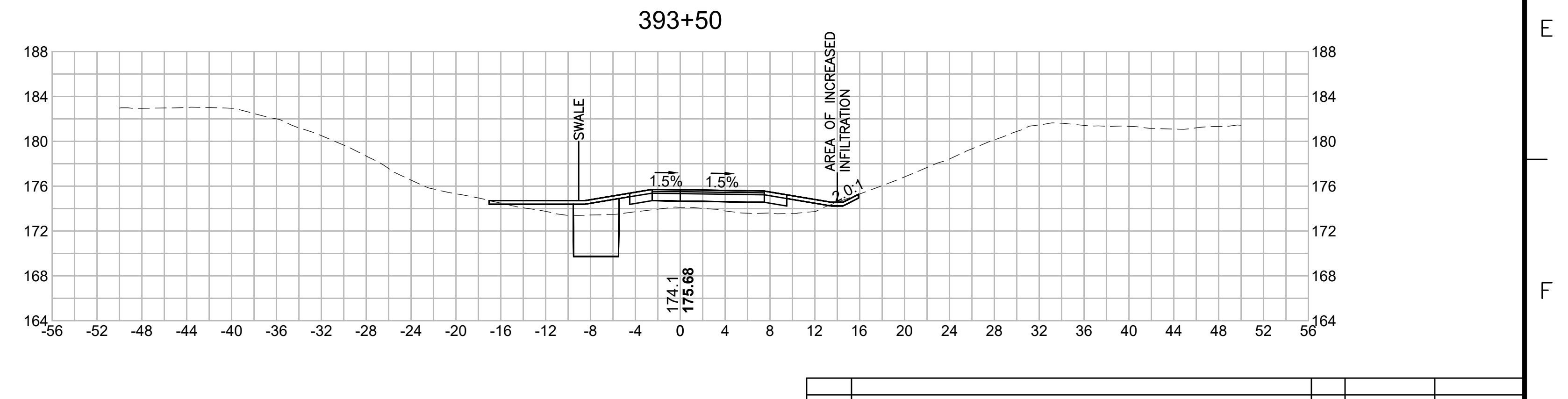
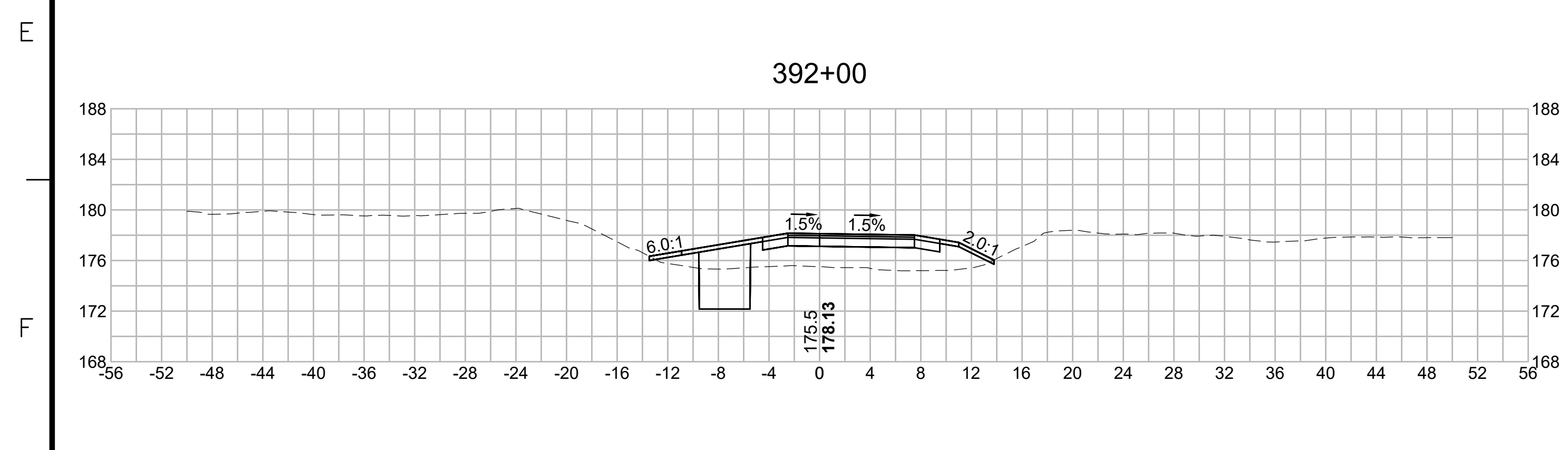
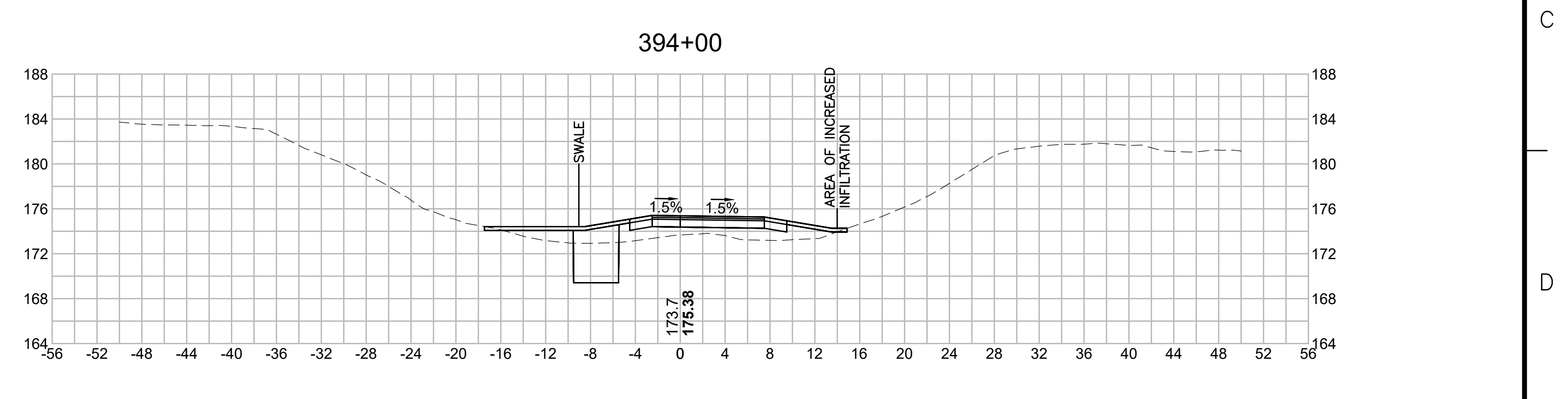
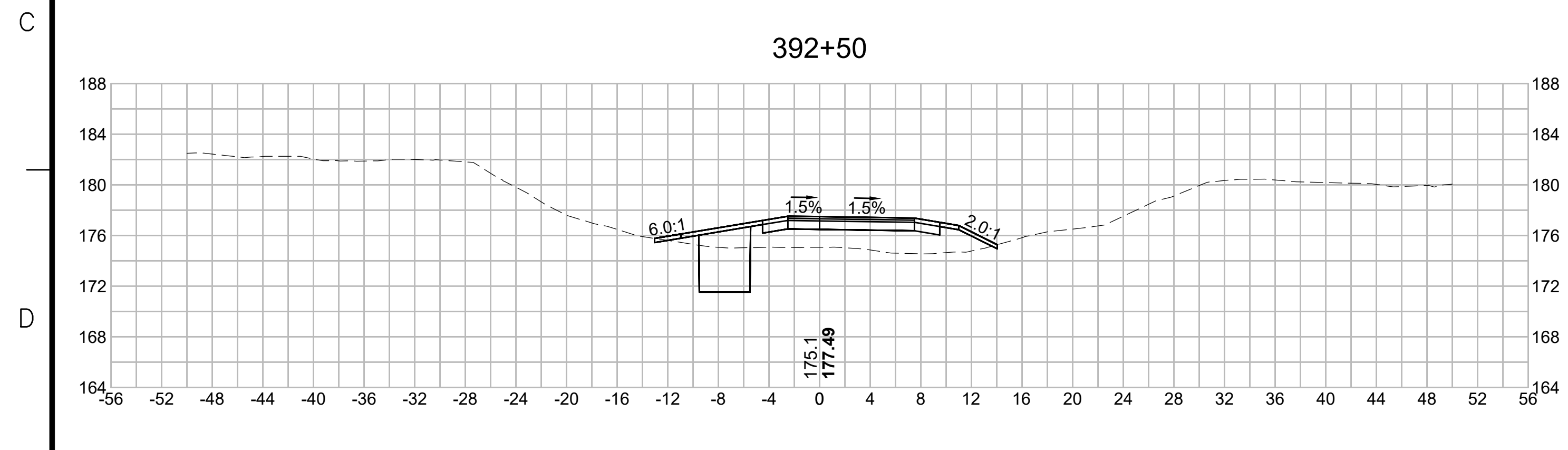
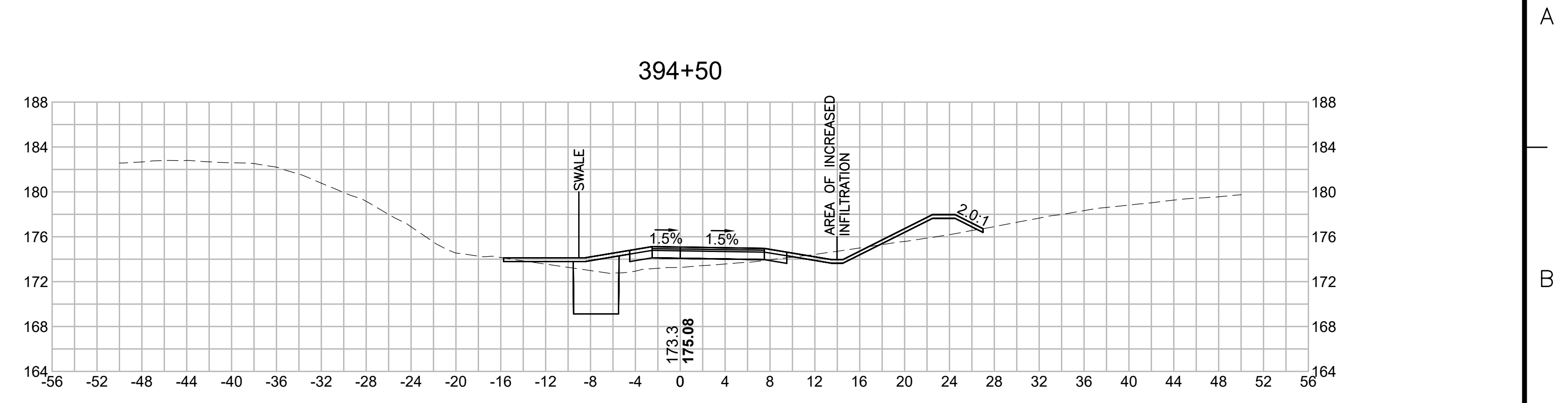
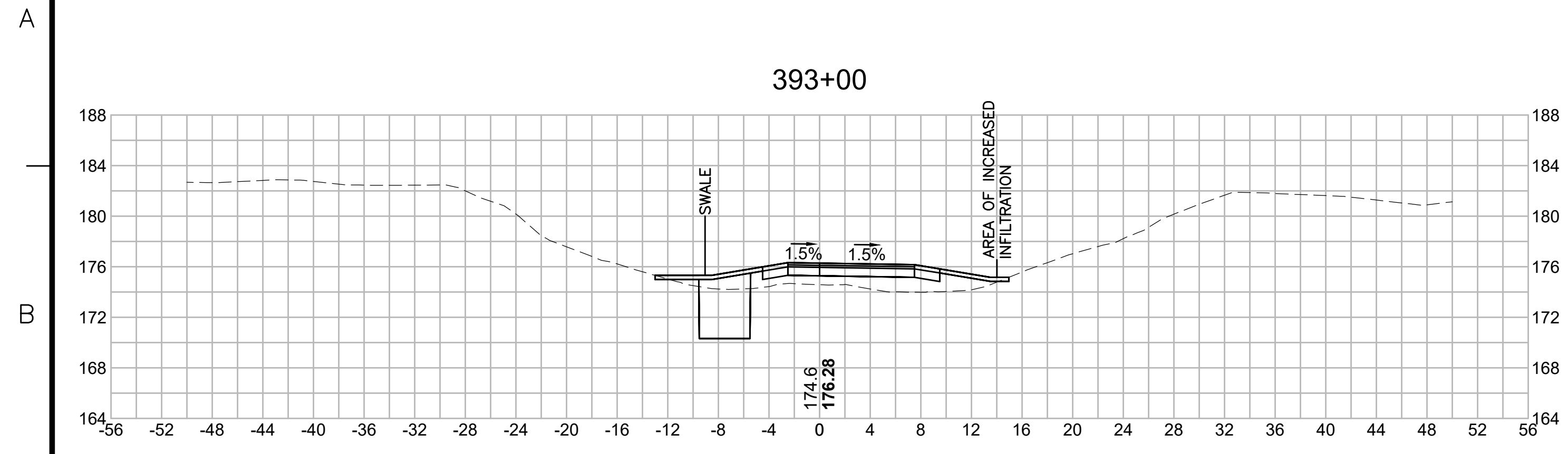
390+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 275 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 276 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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1 2 3 4 5 6 7 8 9 10 11

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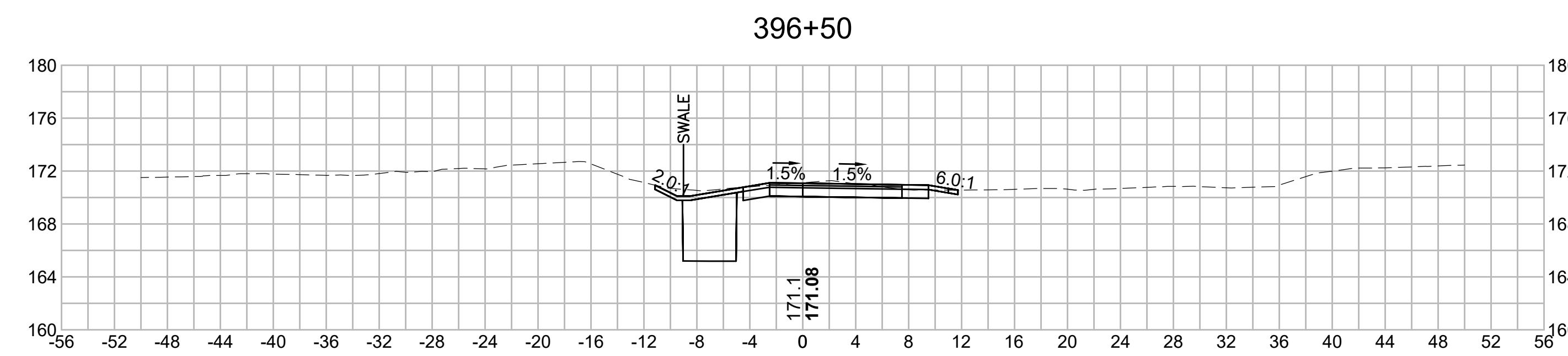
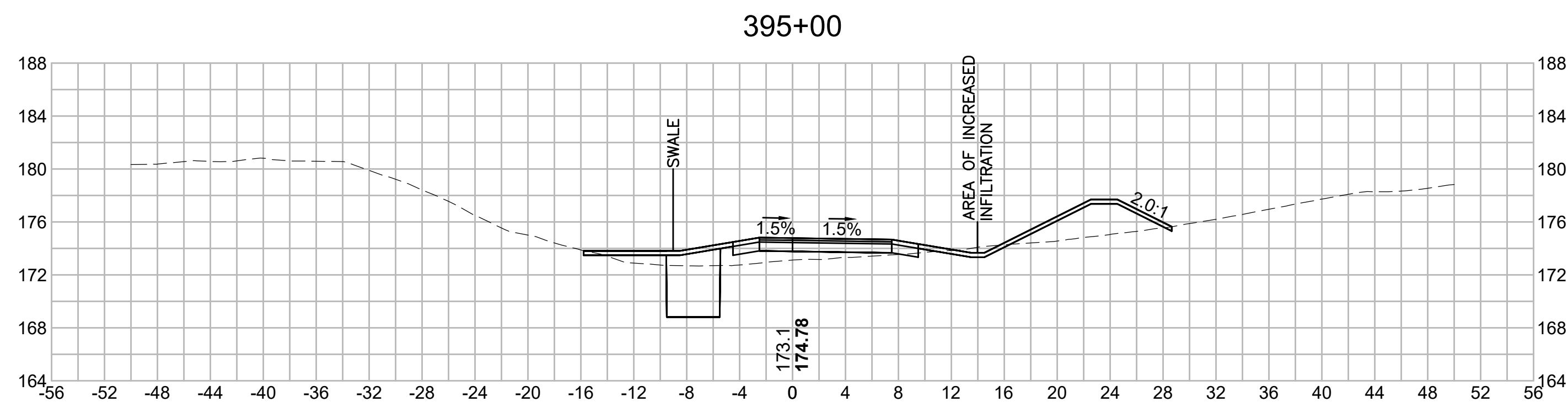
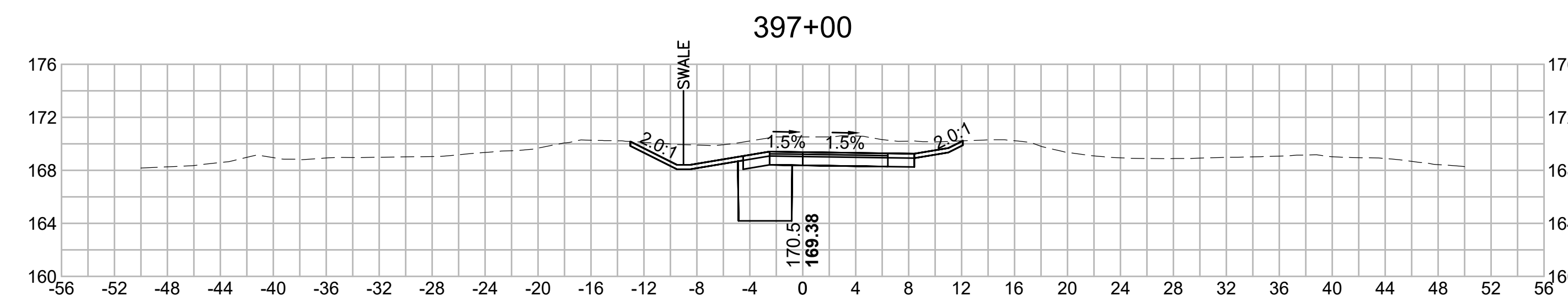
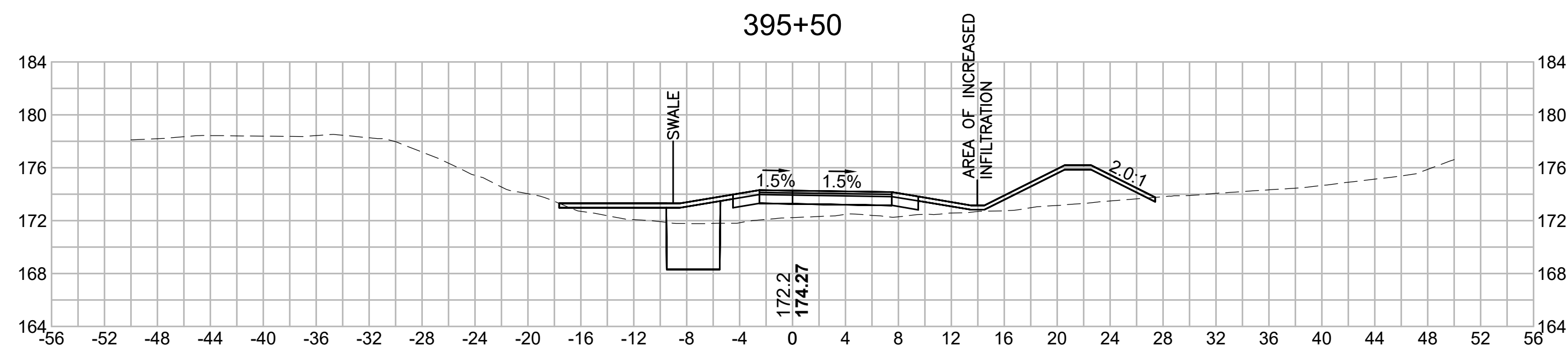
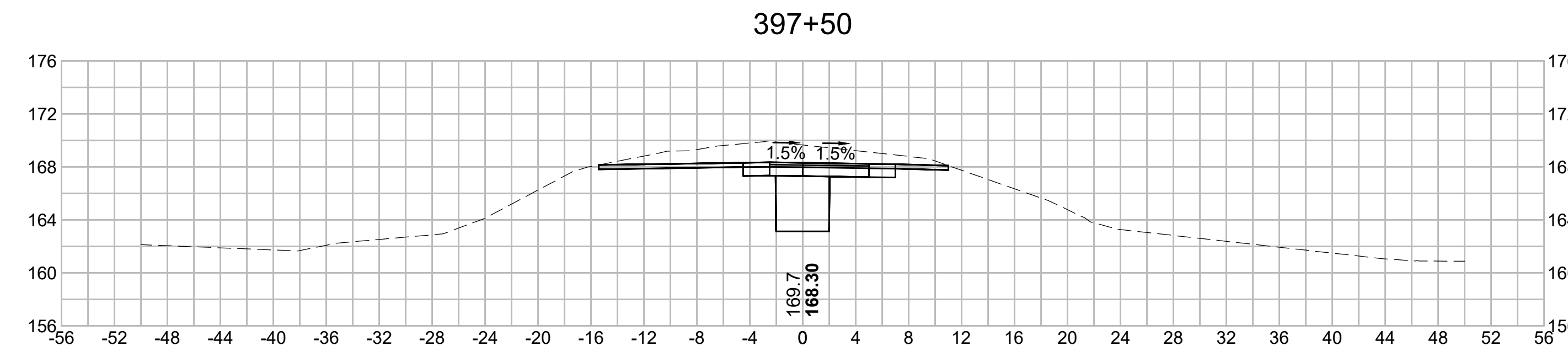
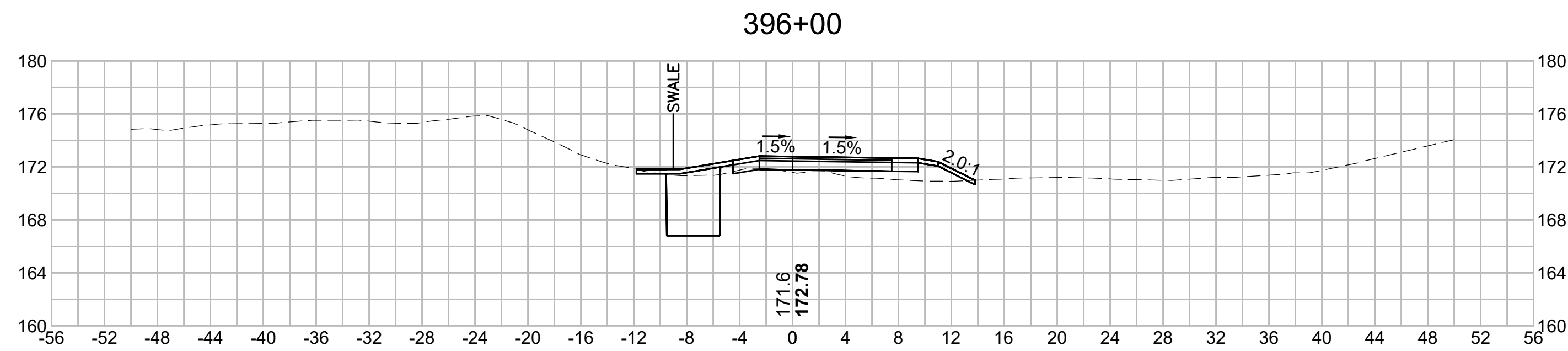
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BLSF CROSSING STA 398 TO STA 403 - FEMA ZONE AE - HOP BROOK

FEMA ELEVATION: 161.0'

FILL:

160'-161': 0.95 CY

159'-160': 0.33 CY

CUT:

160'-161': 4.04 CY

159'-160': 1.17 CY

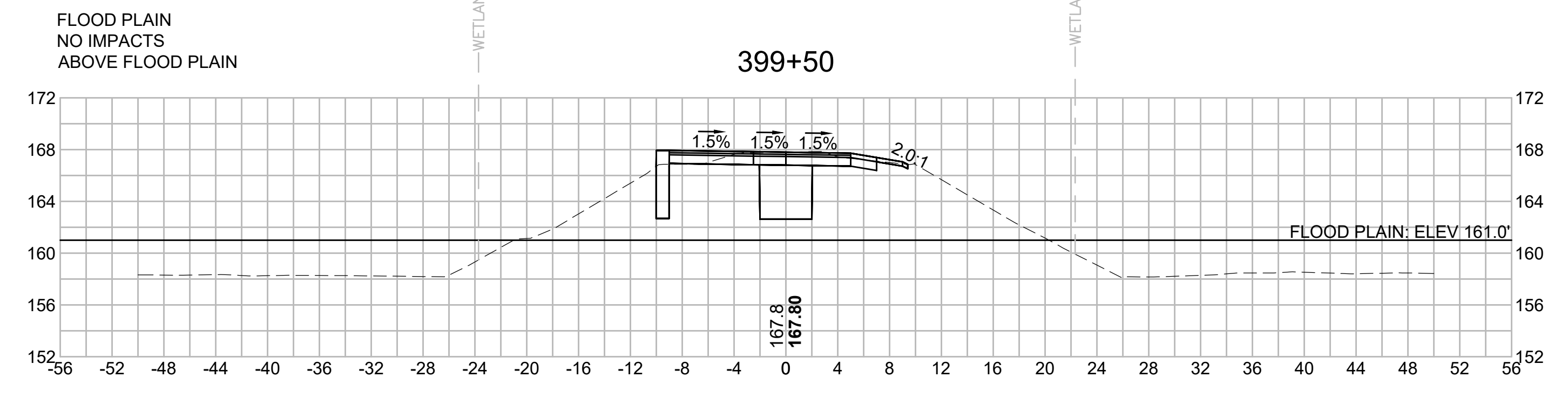
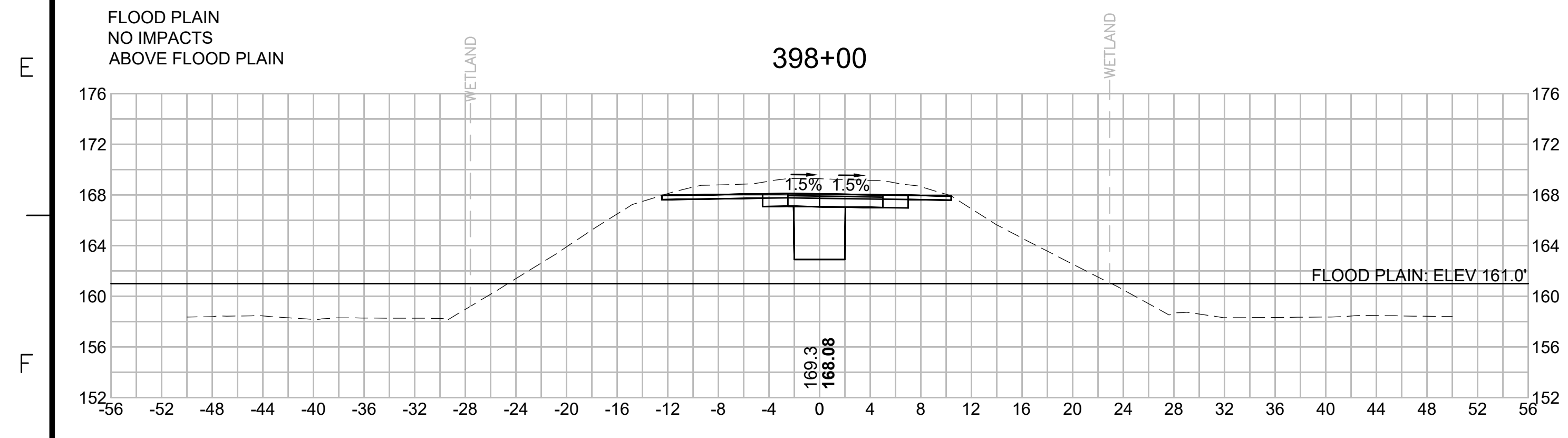
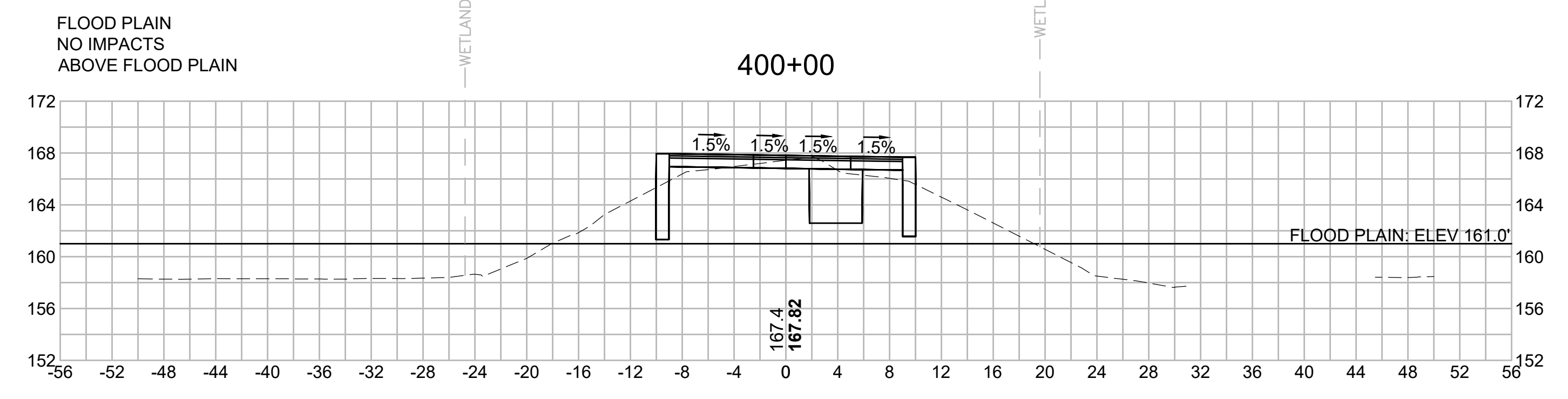
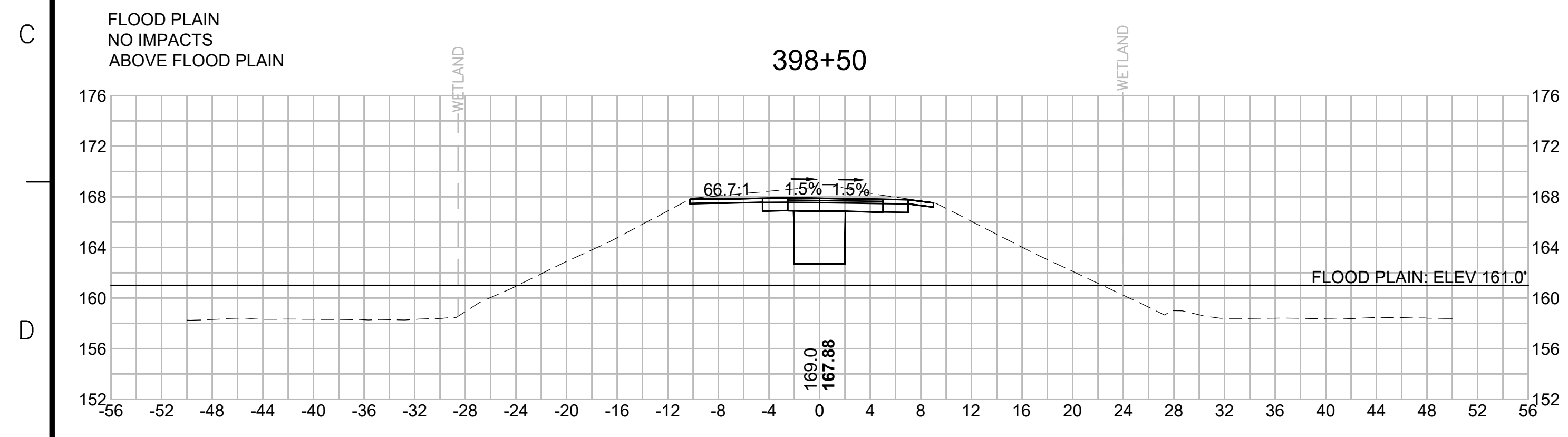
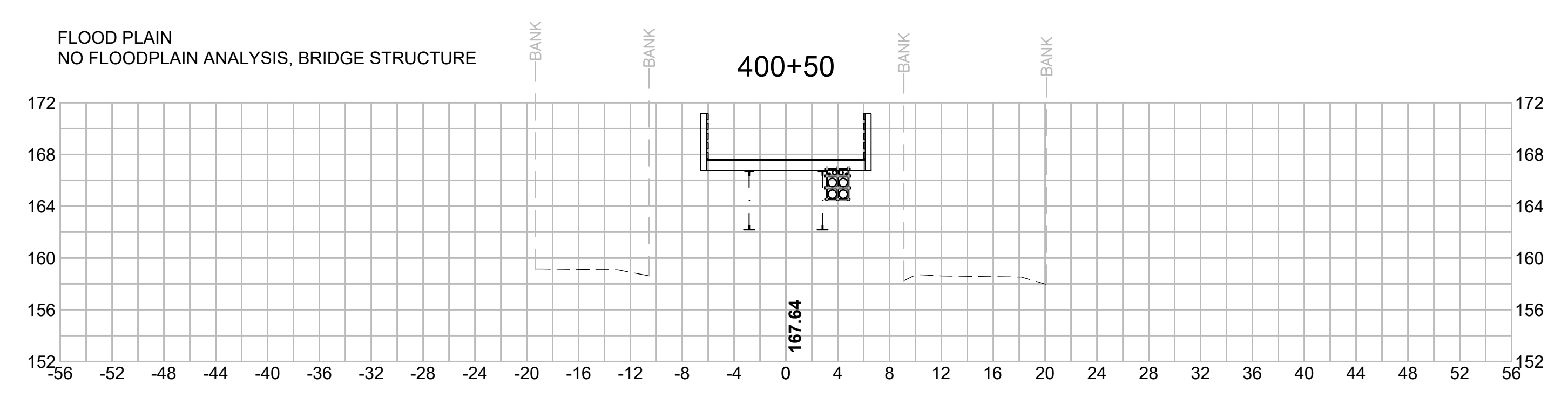
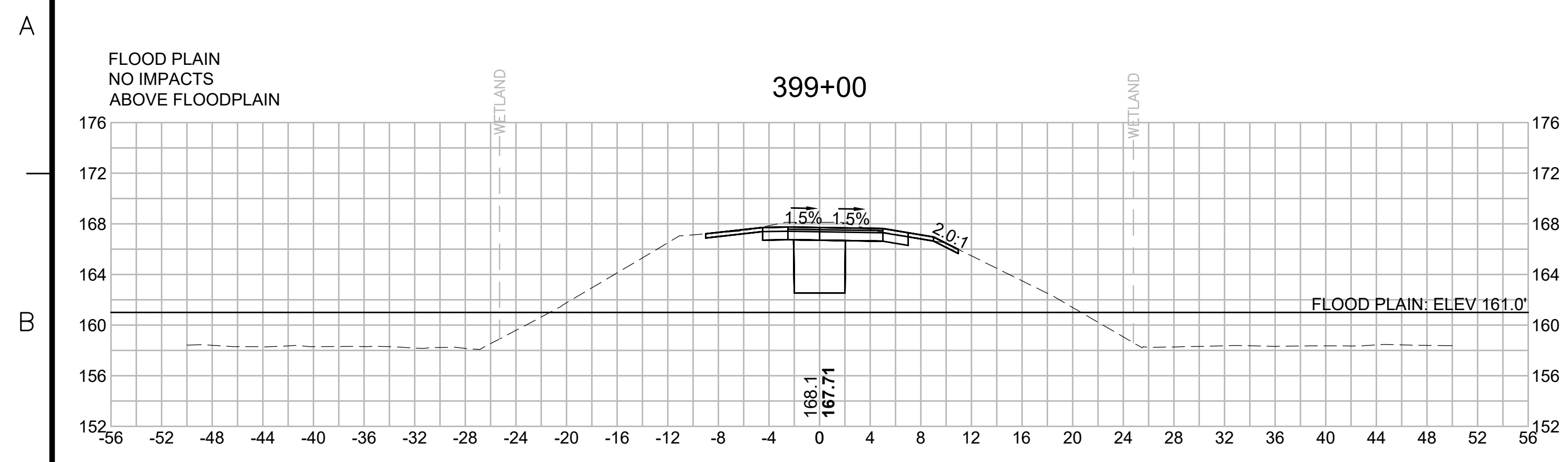


Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.224.1770 FAX 617.924.2286

NO.	DESCRIPTION	BY	DATE	APPR.
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 277 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
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



N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 278 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
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

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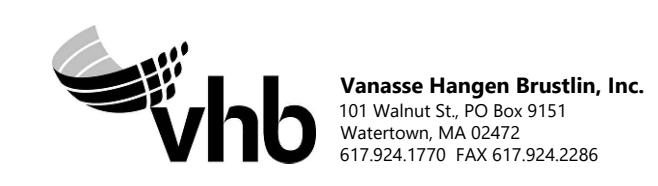
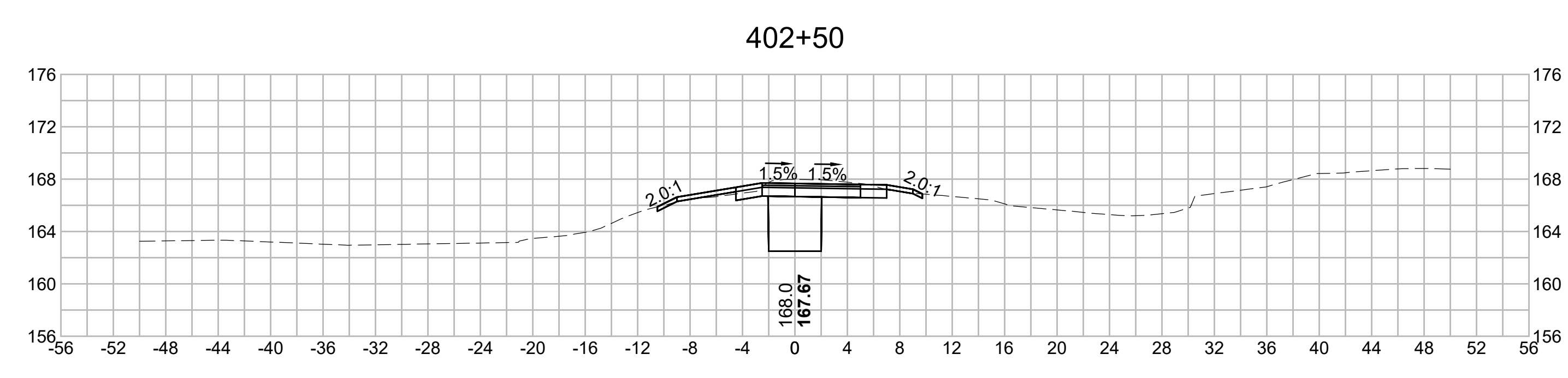
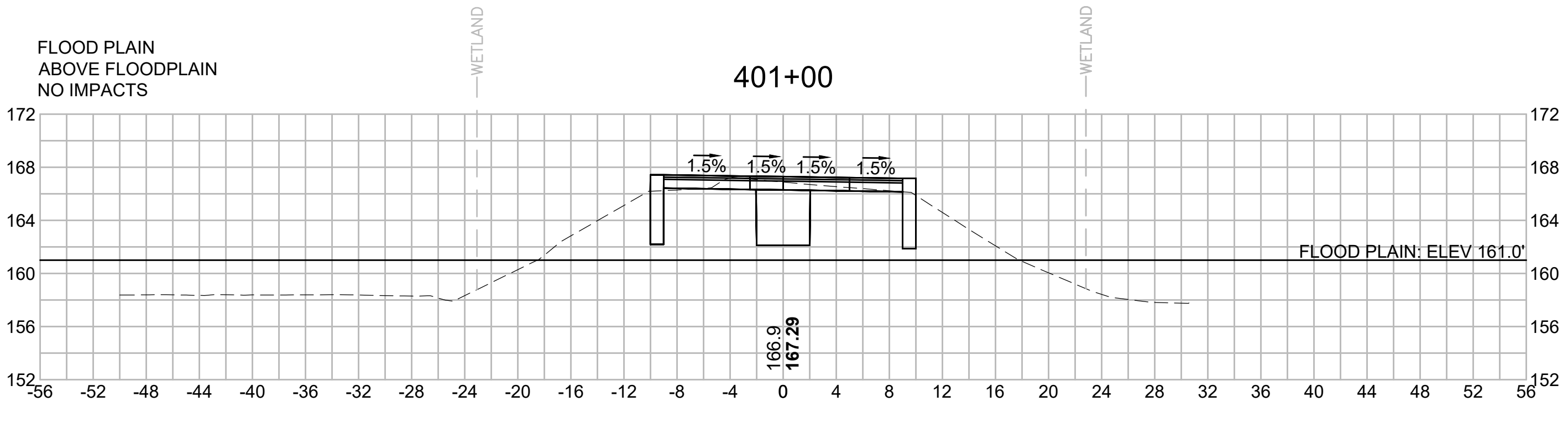
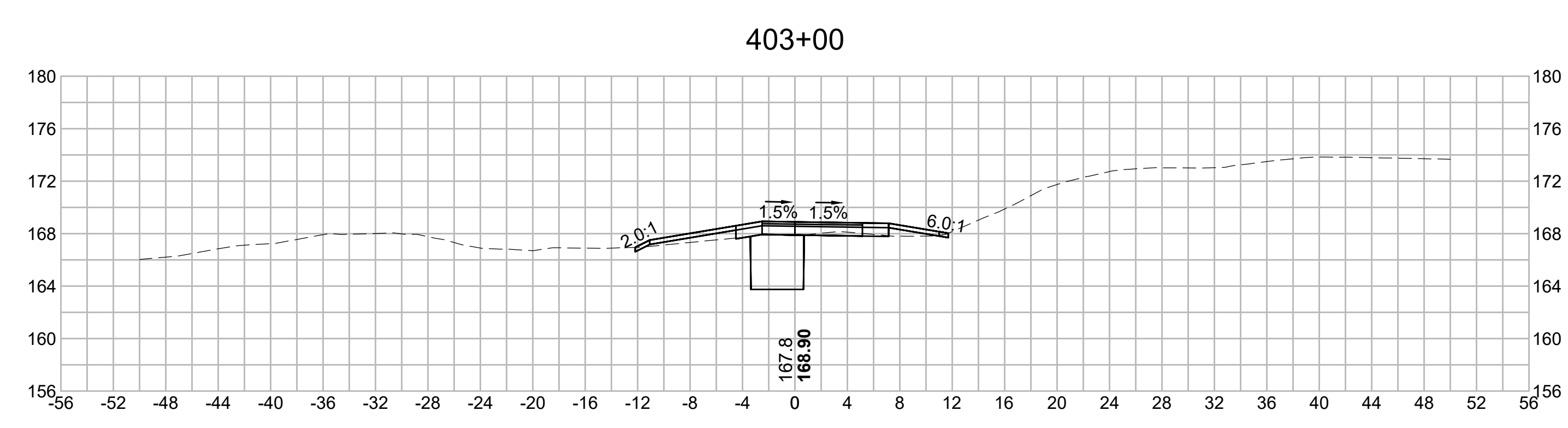
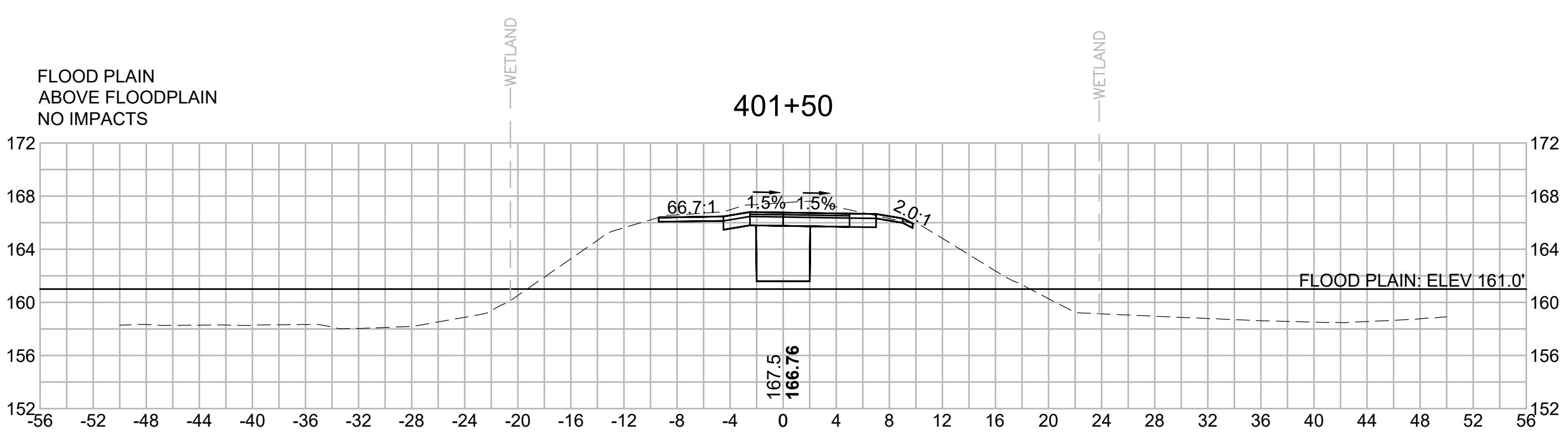
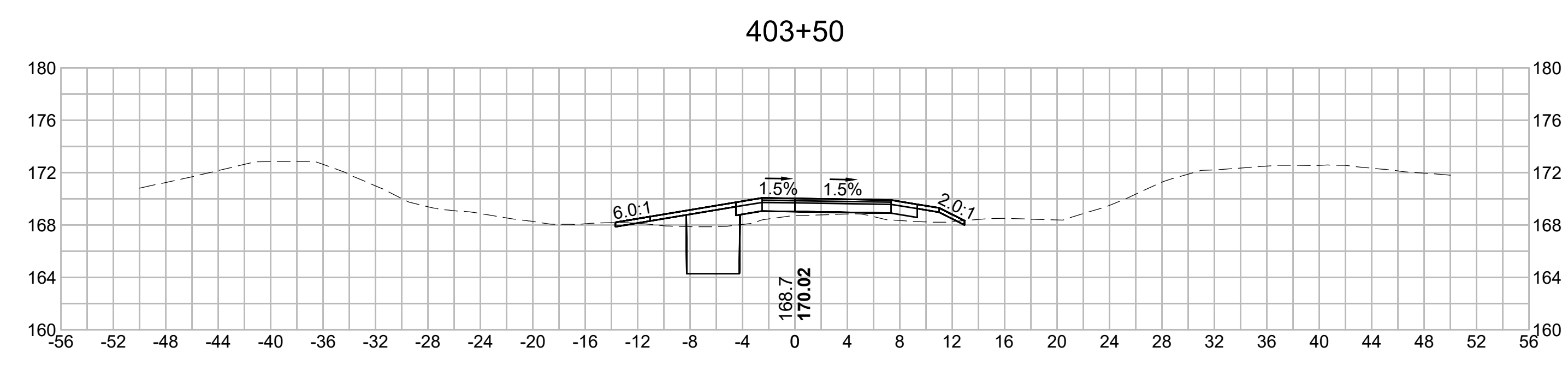
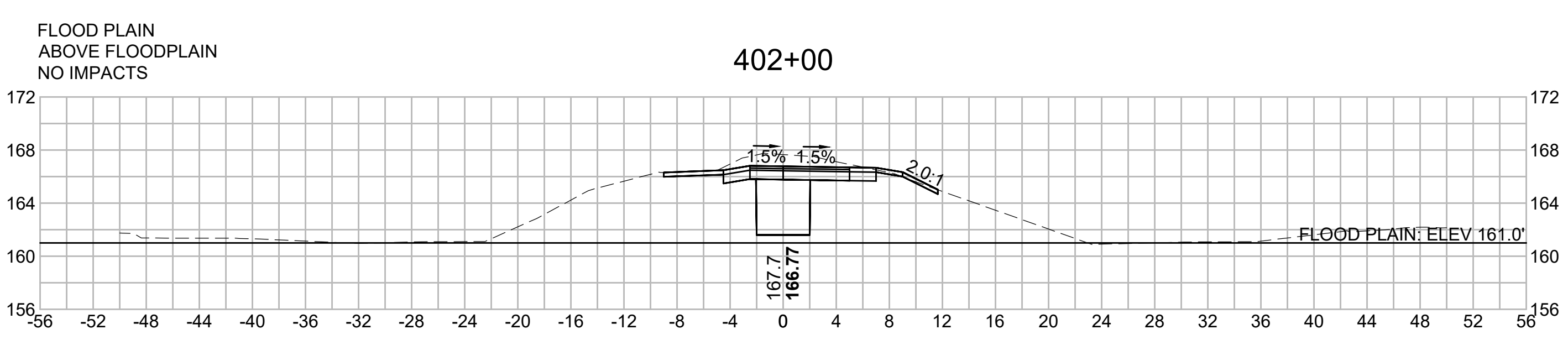
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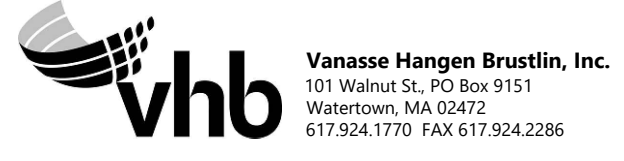
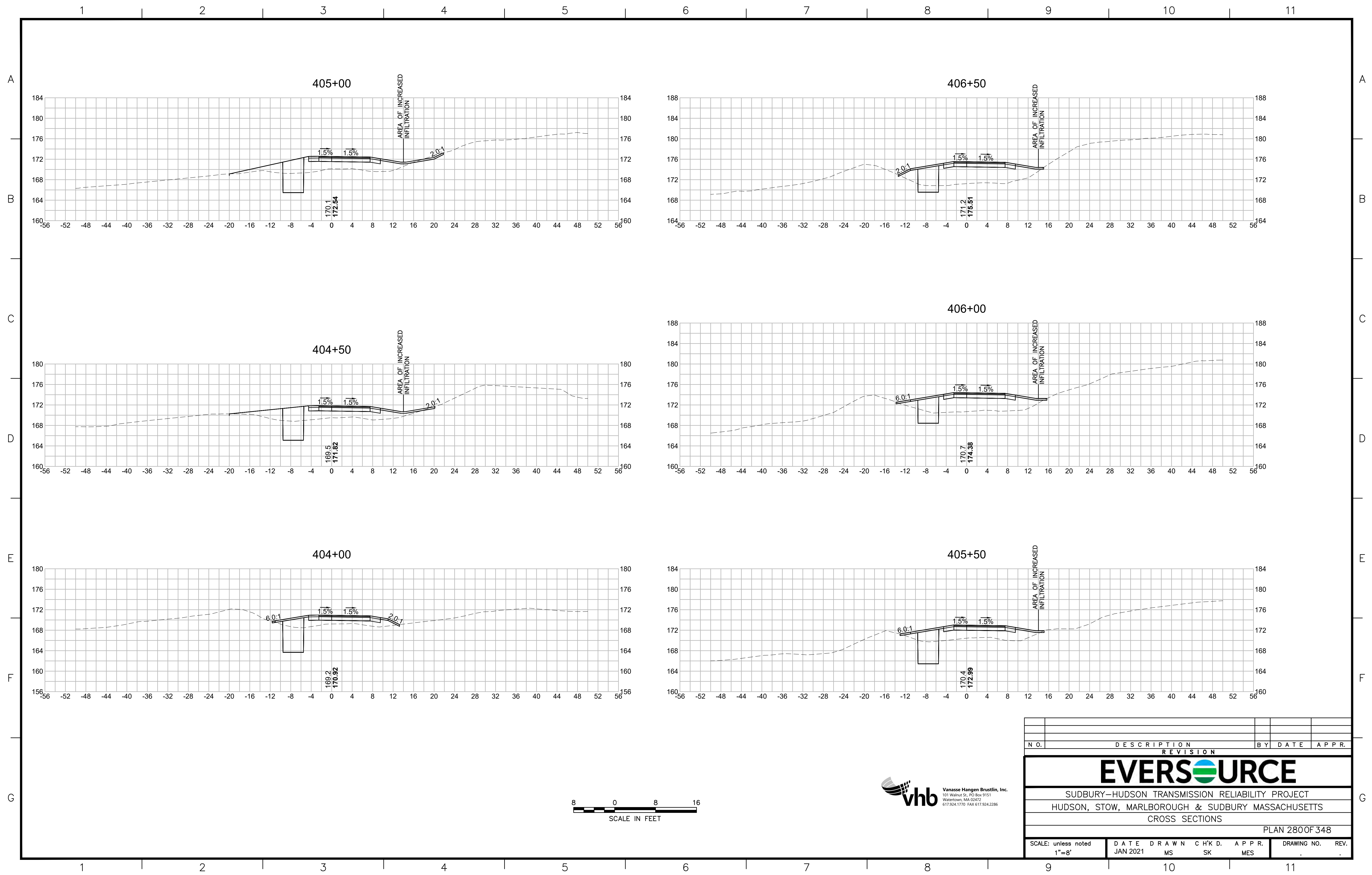
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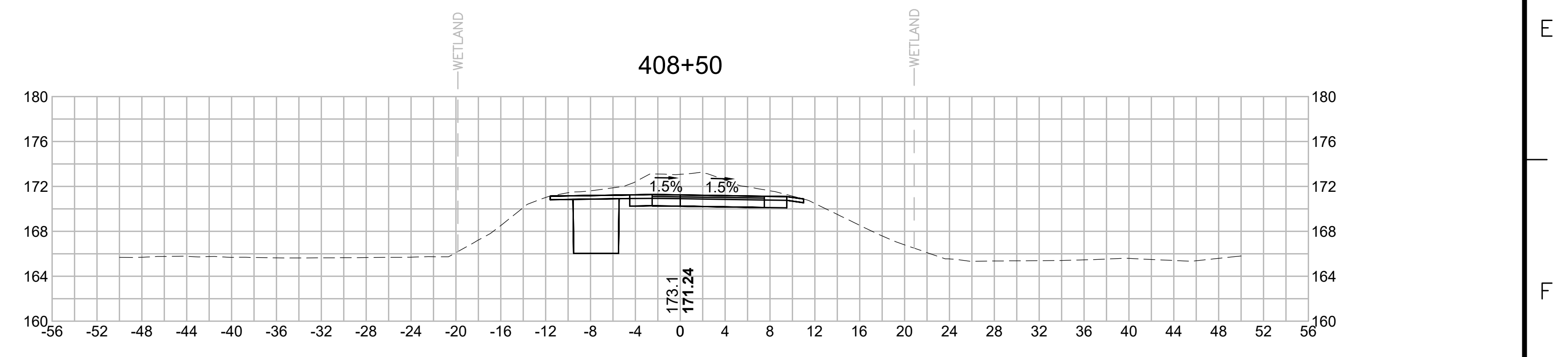
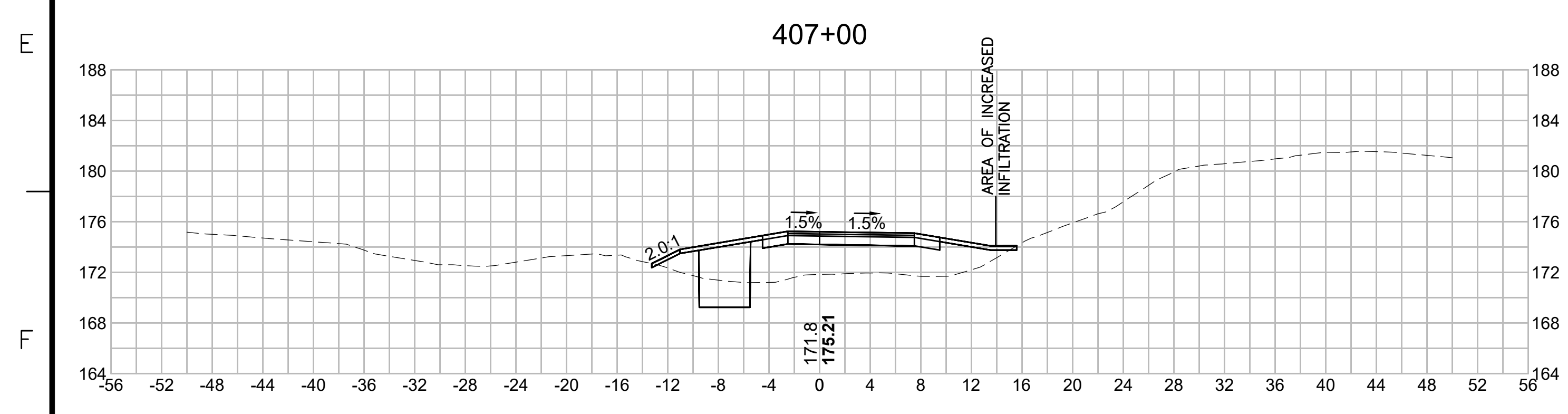
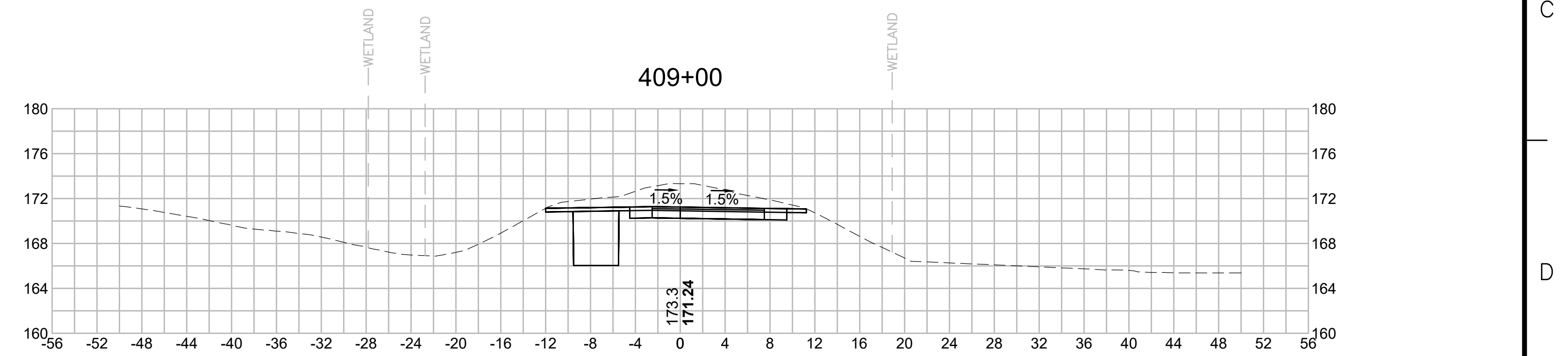
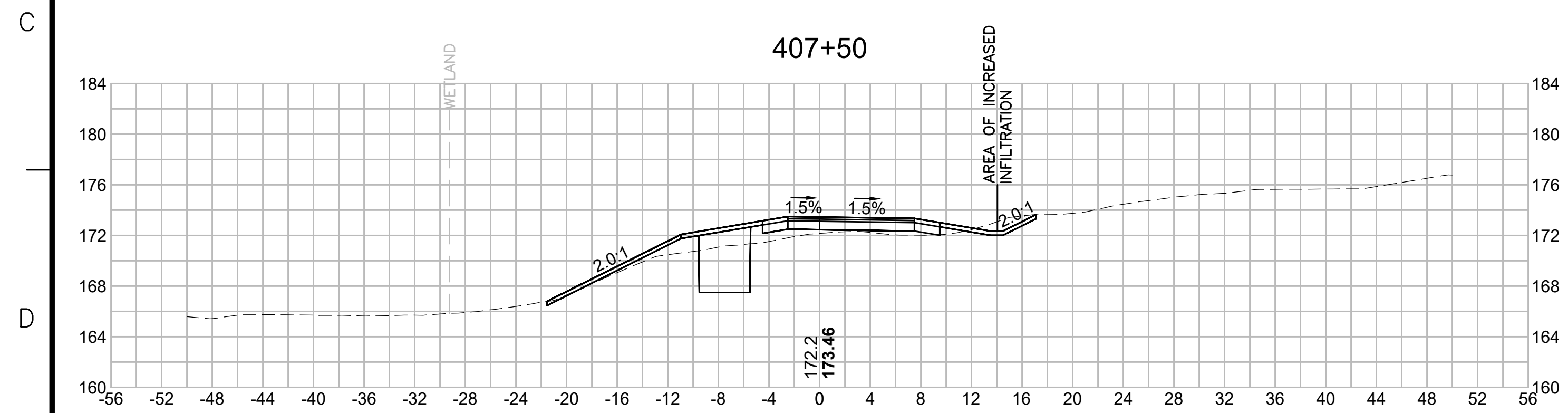
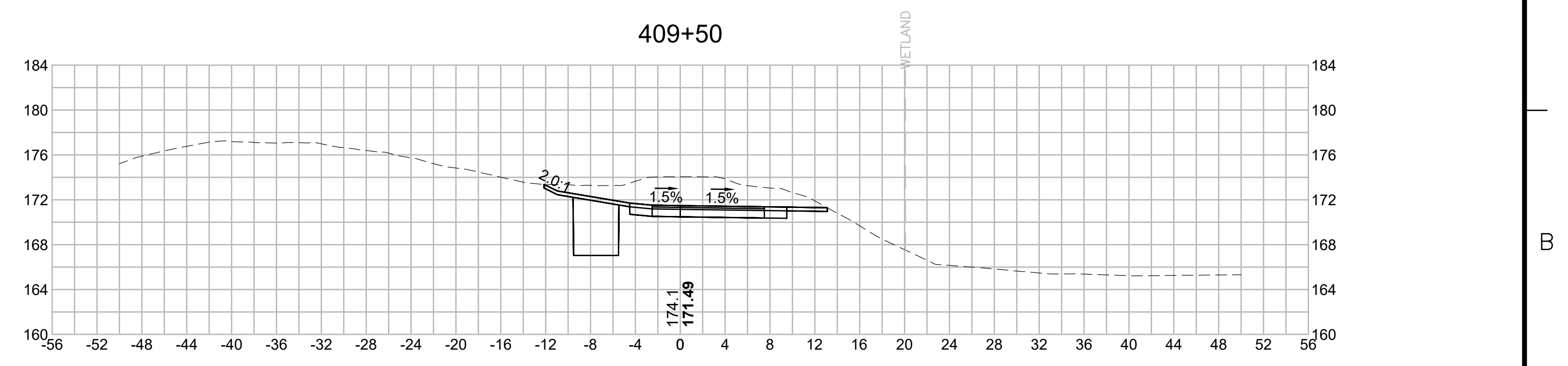
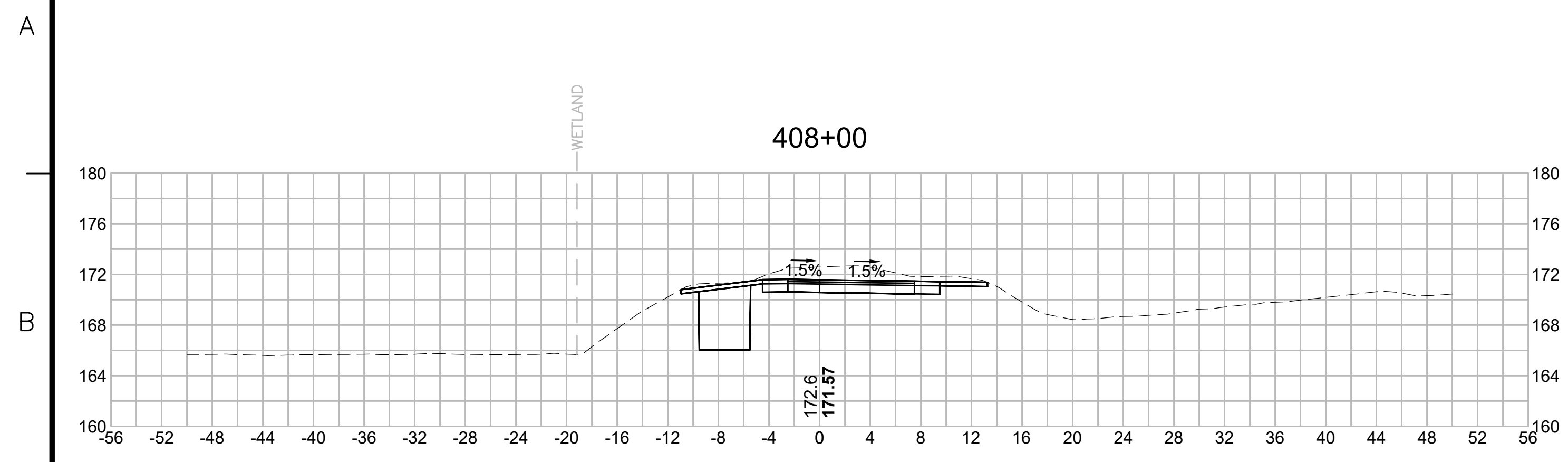
N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 279 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 2800F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	APPR. MES
DRAWING NO.		REV.		

1 2 3 4 5 6 7 8 9 10 11



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 2810F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
	DRAWING NO.	REV.		

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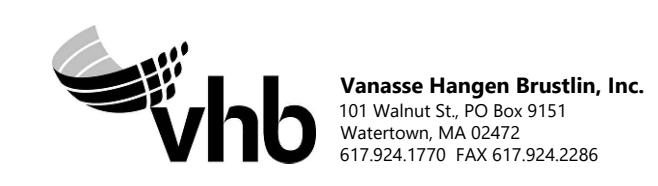
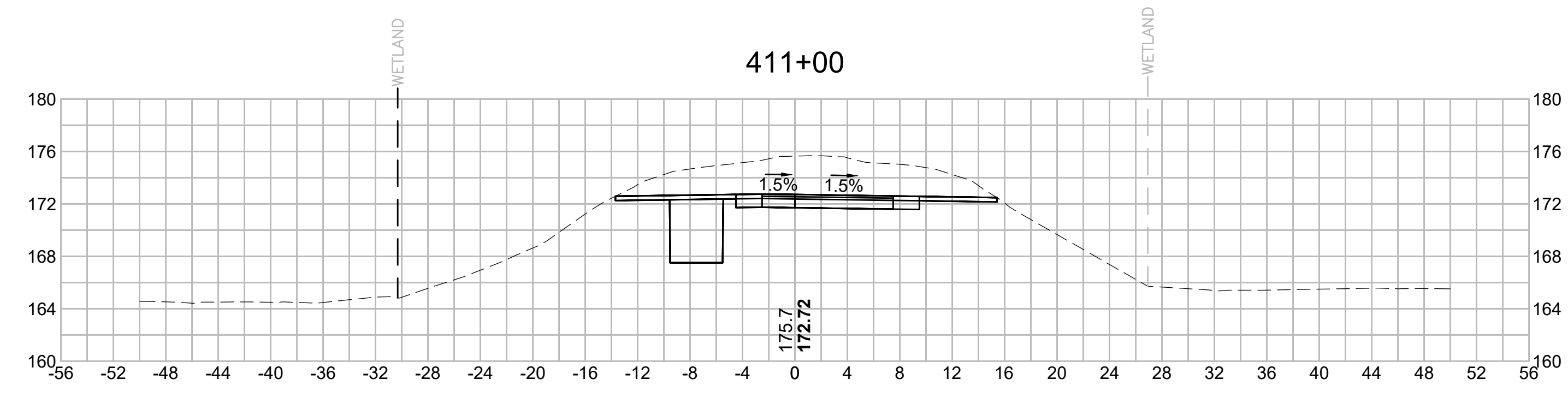
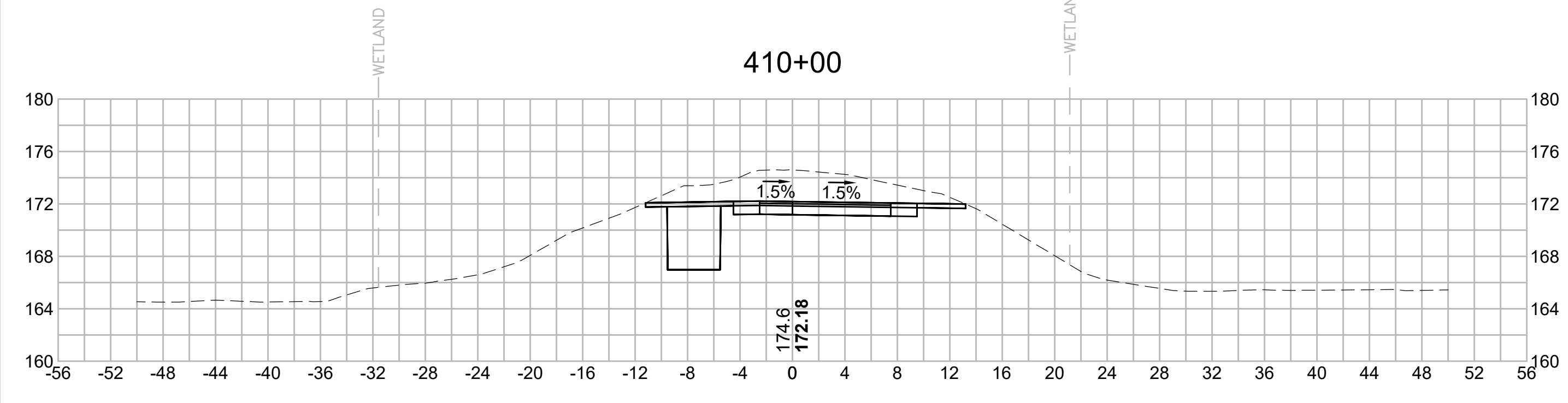
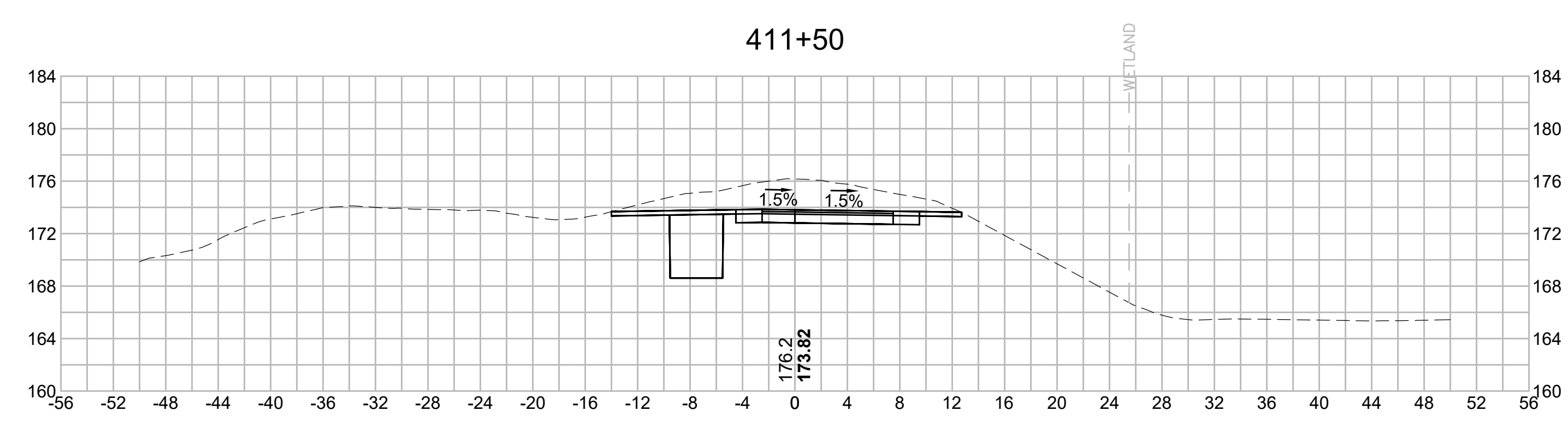
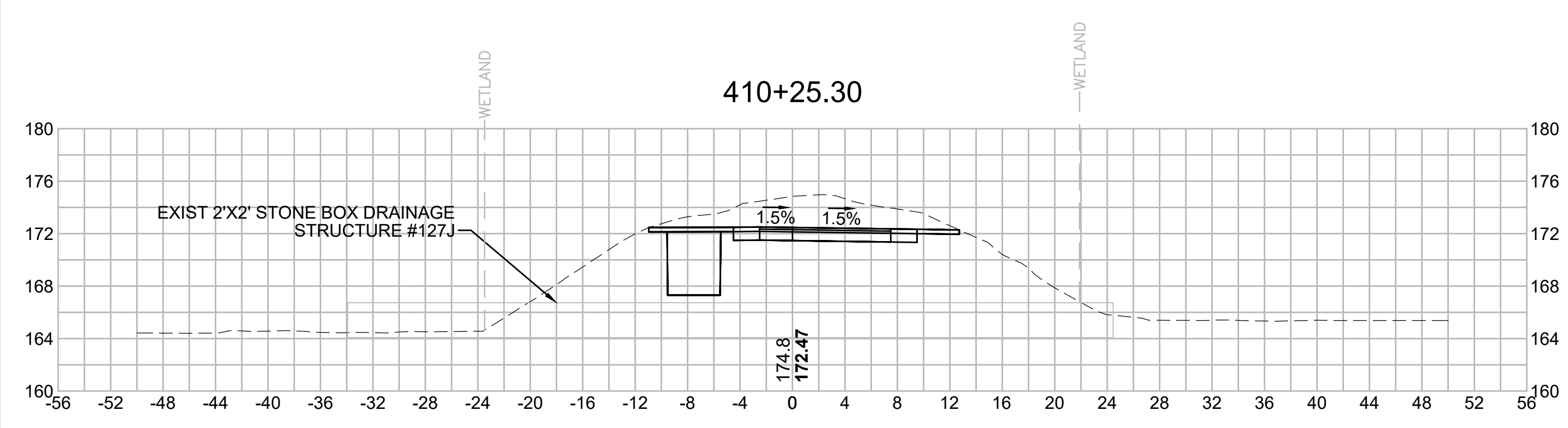
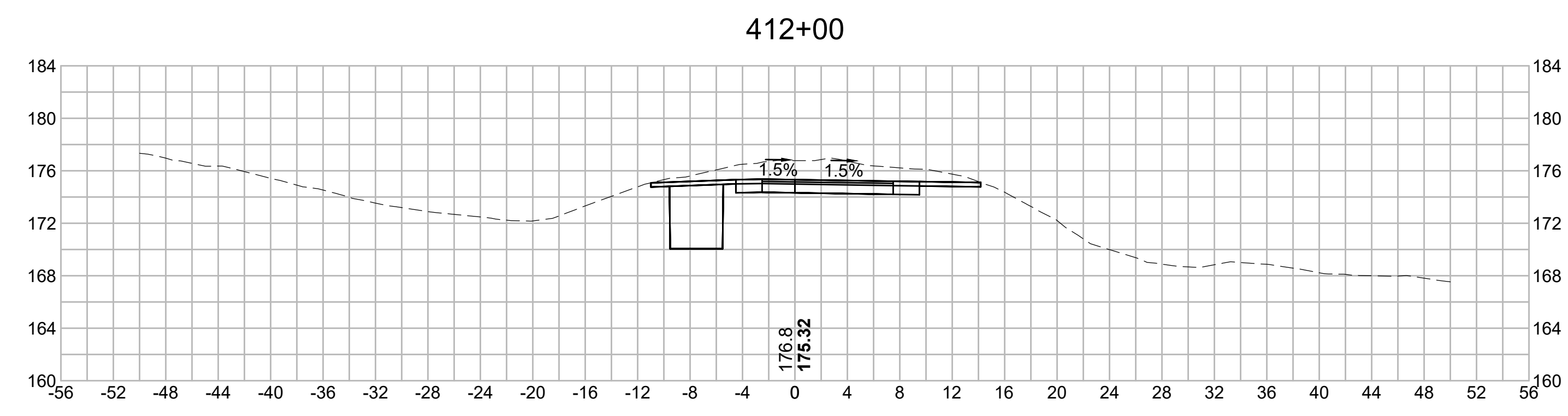
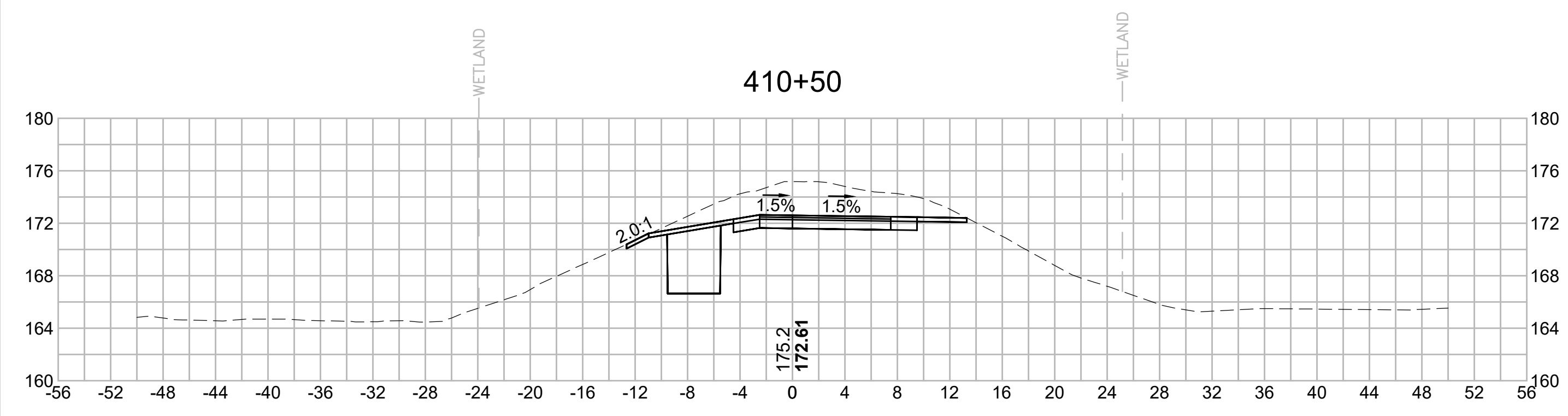
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

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SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C H'K D. SK	APPR. MES	DRAWING NO. REV.
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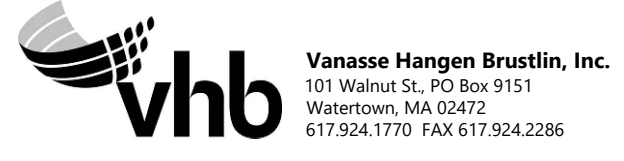
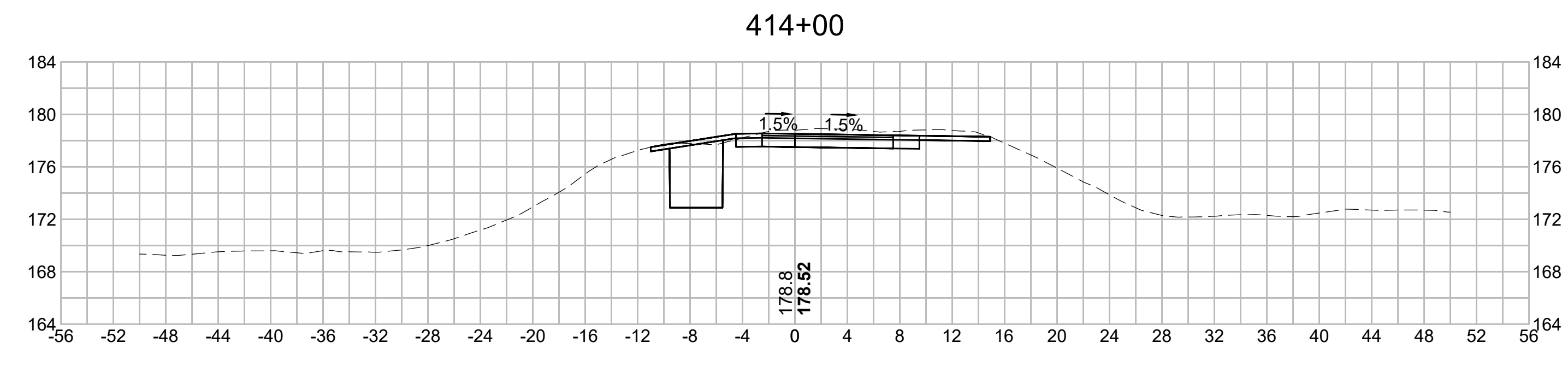
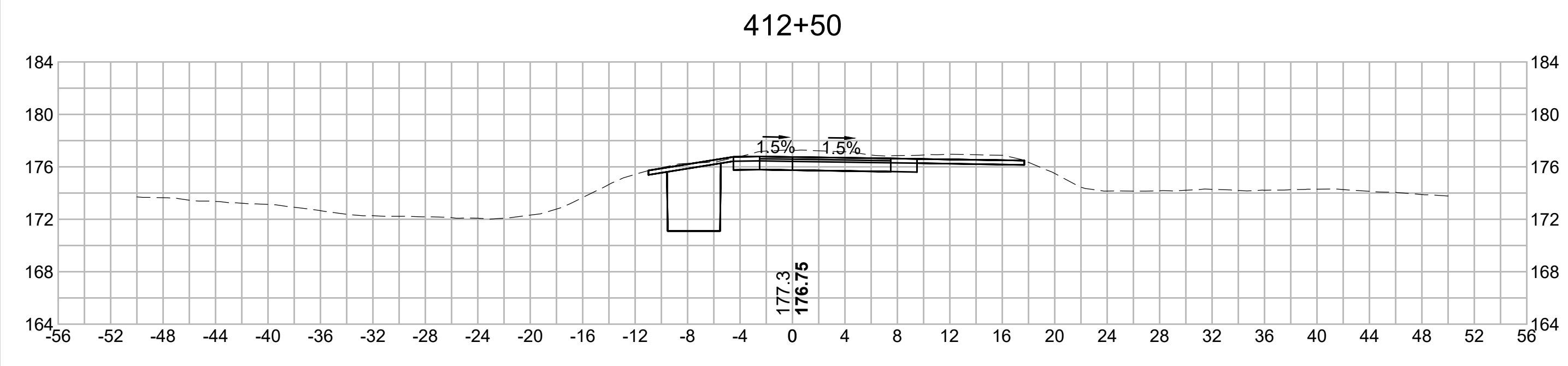
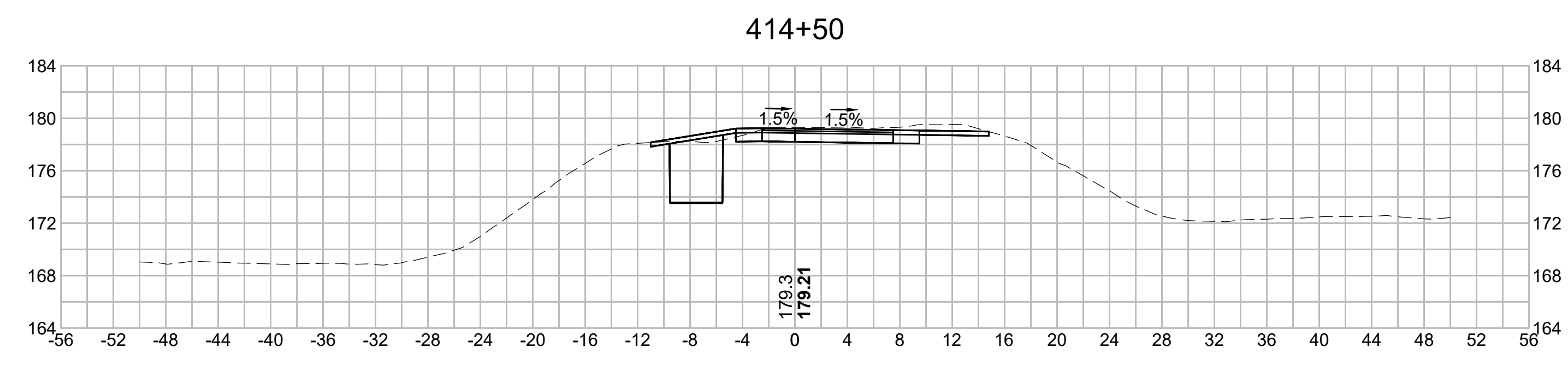
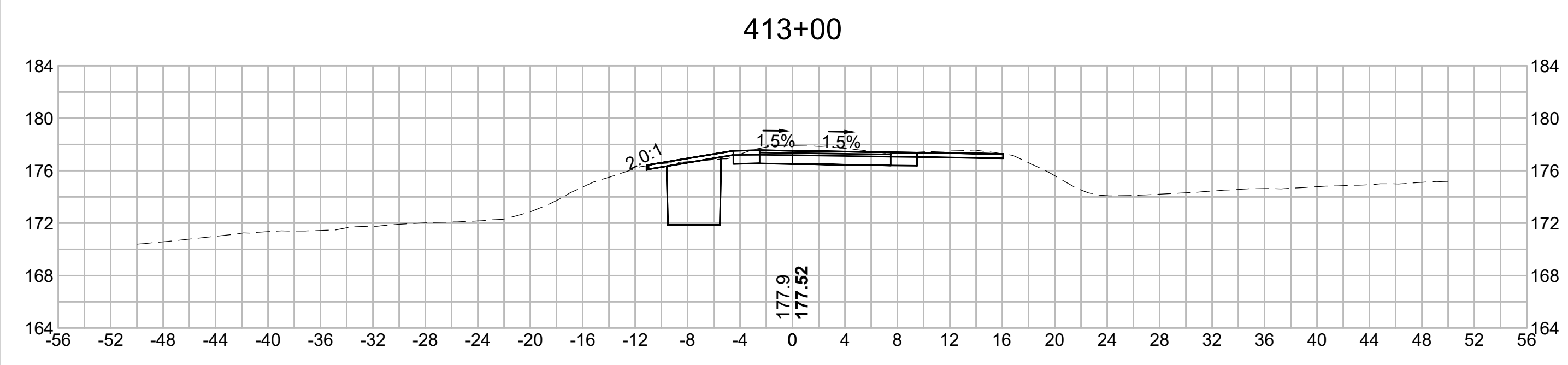
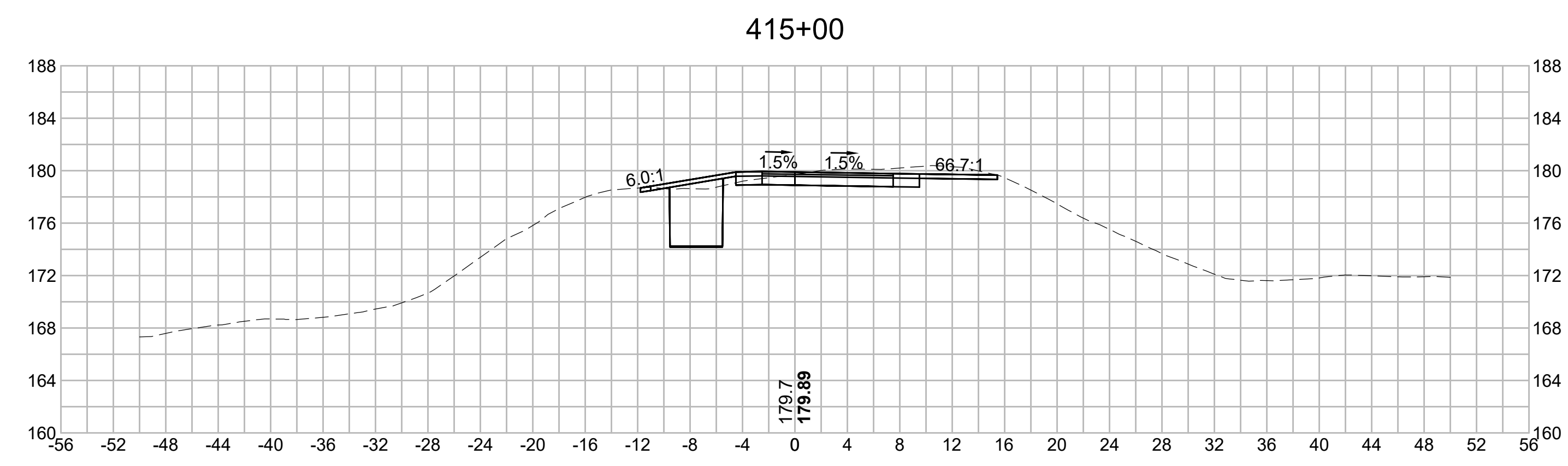
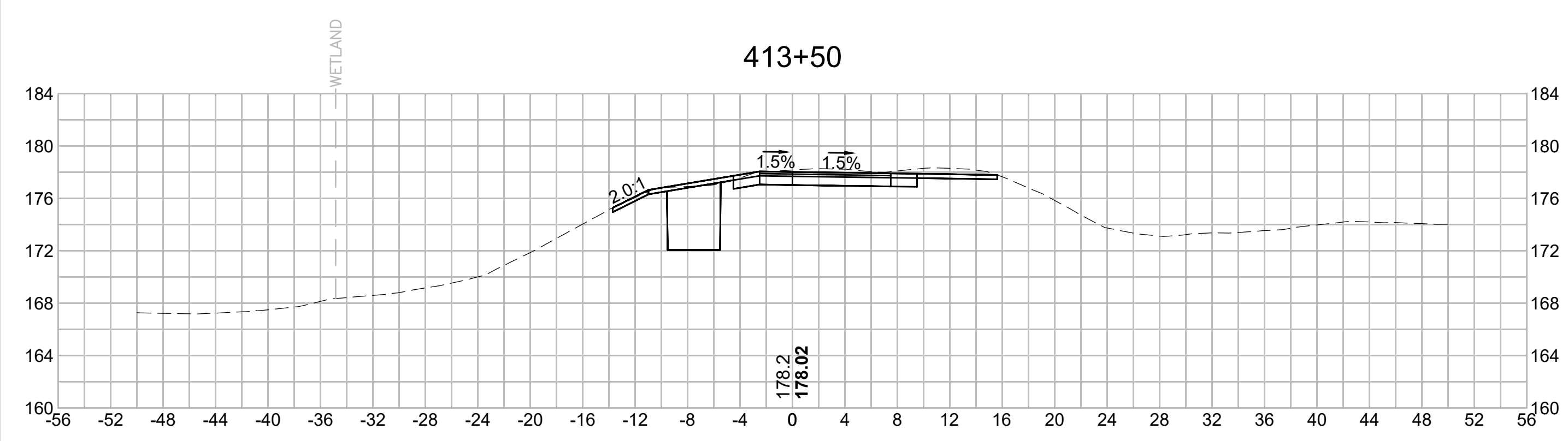
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 283 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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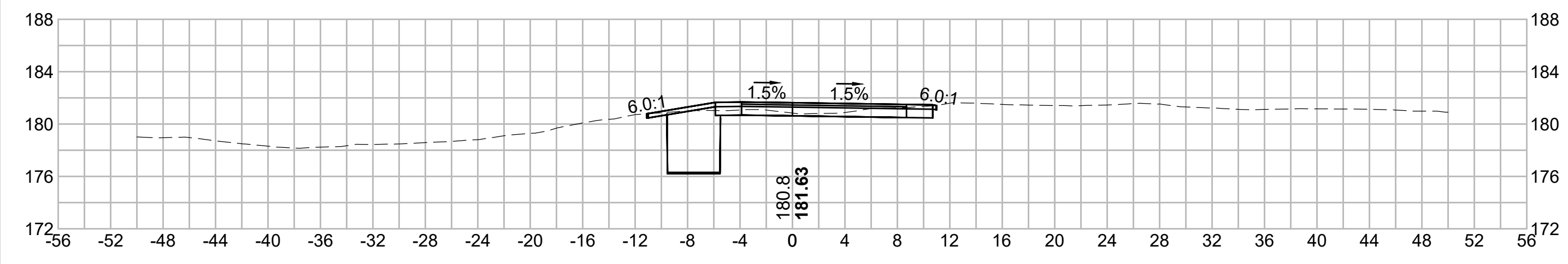
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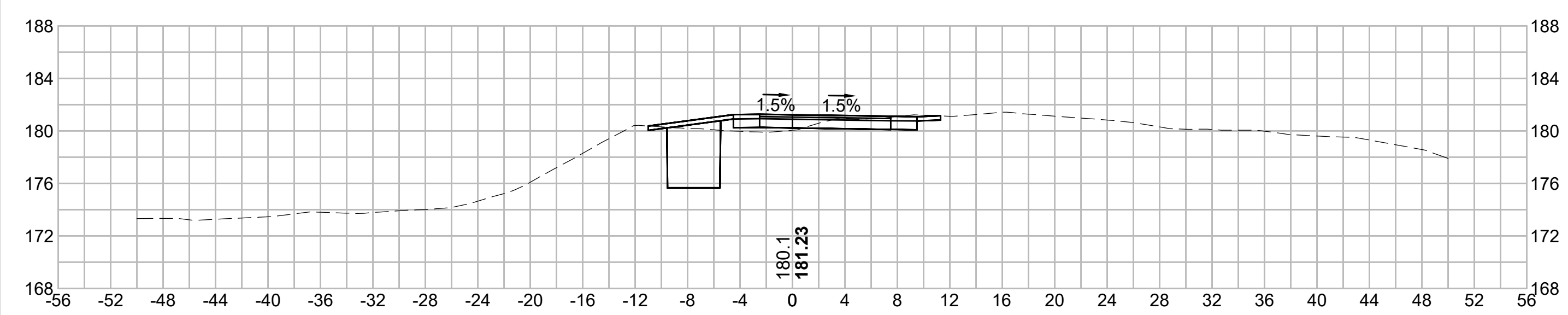
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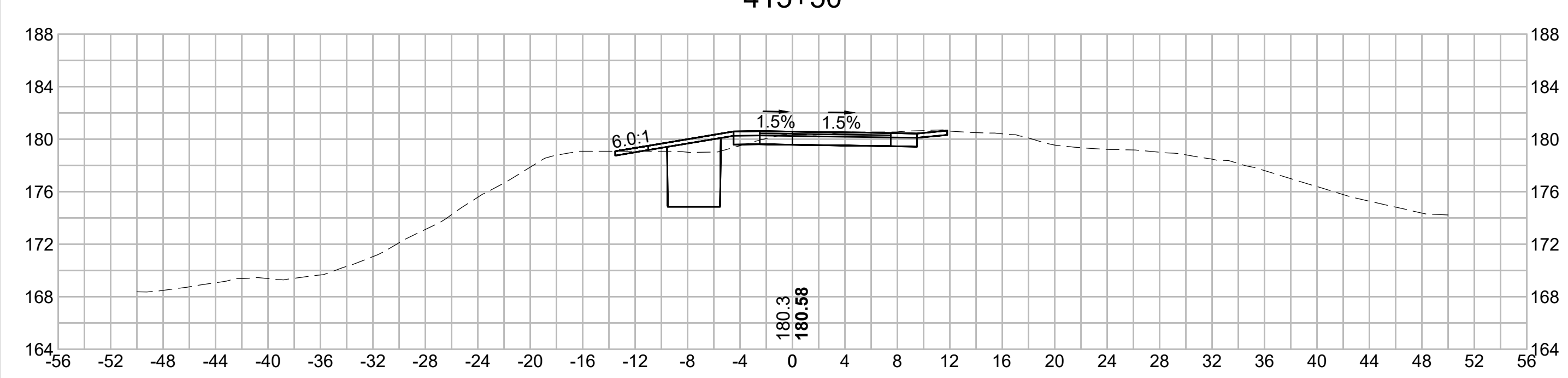
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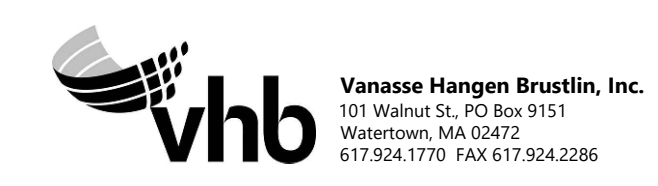
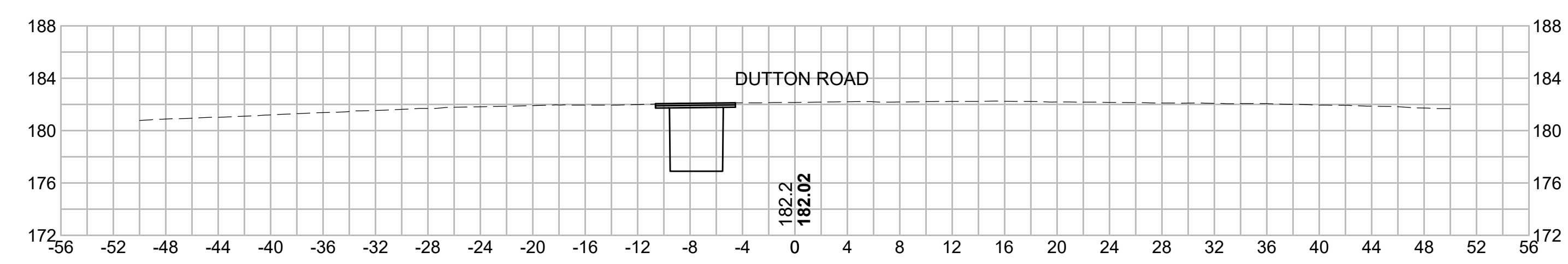
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415+50



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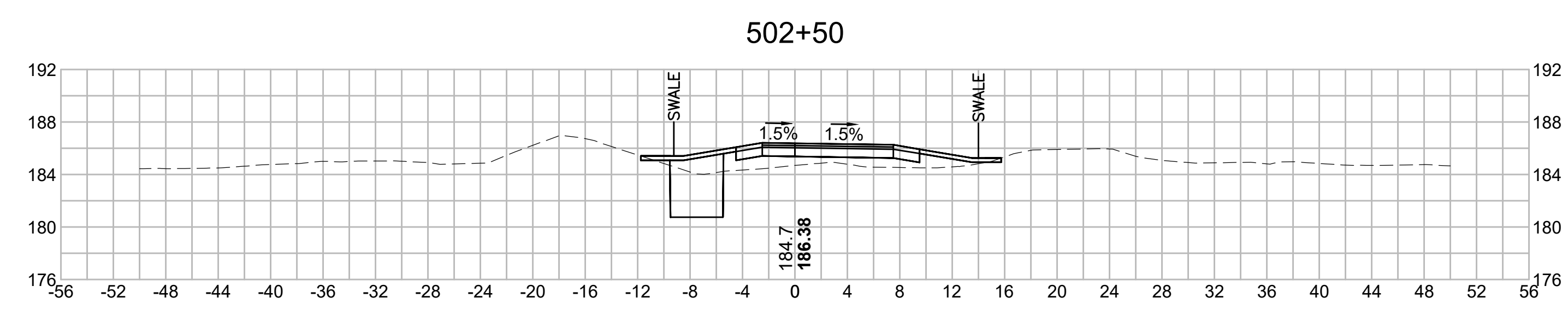
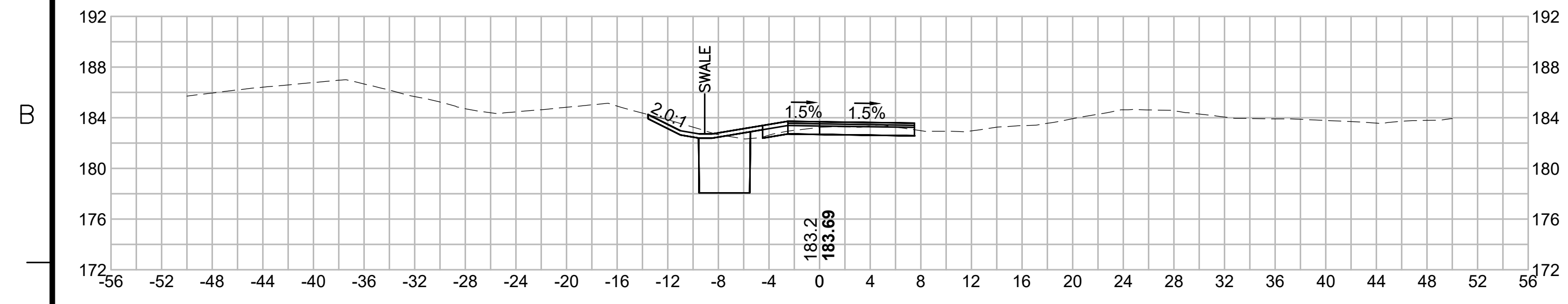
N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 284 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APP'R. MES
DRAWING NO.	REV.			

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1 2 3 4 5 6 7 8 9 10 11

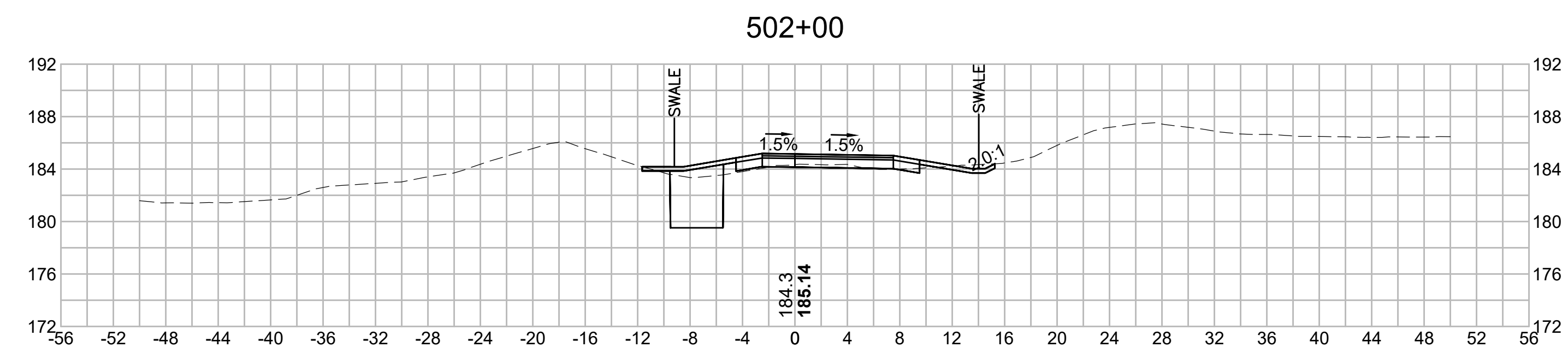
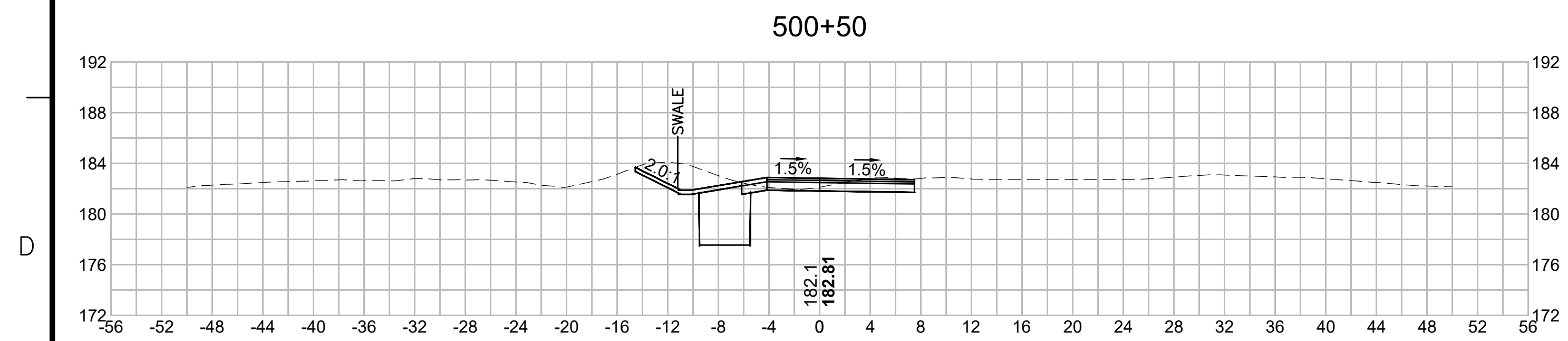
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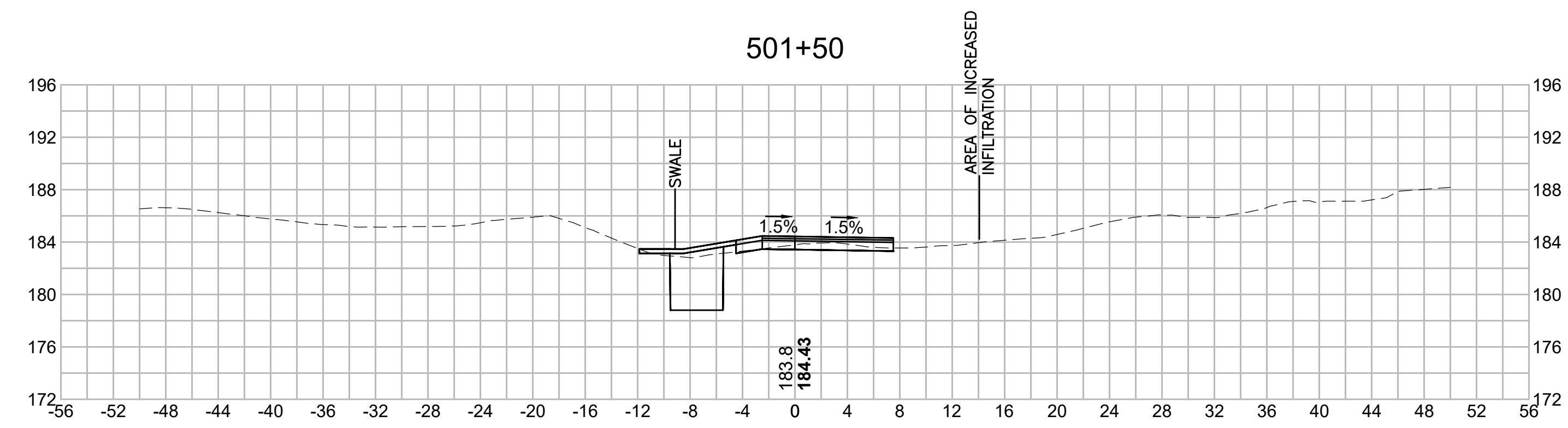
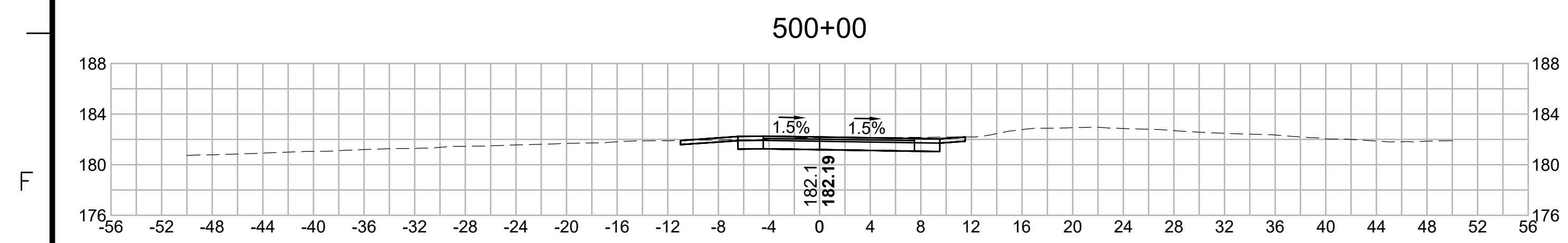
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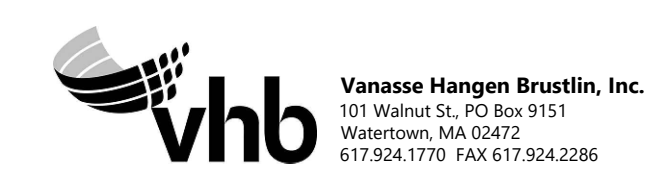


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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 285 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.		REV.		

1 2 3 4 5 6 7 8 9 10 11

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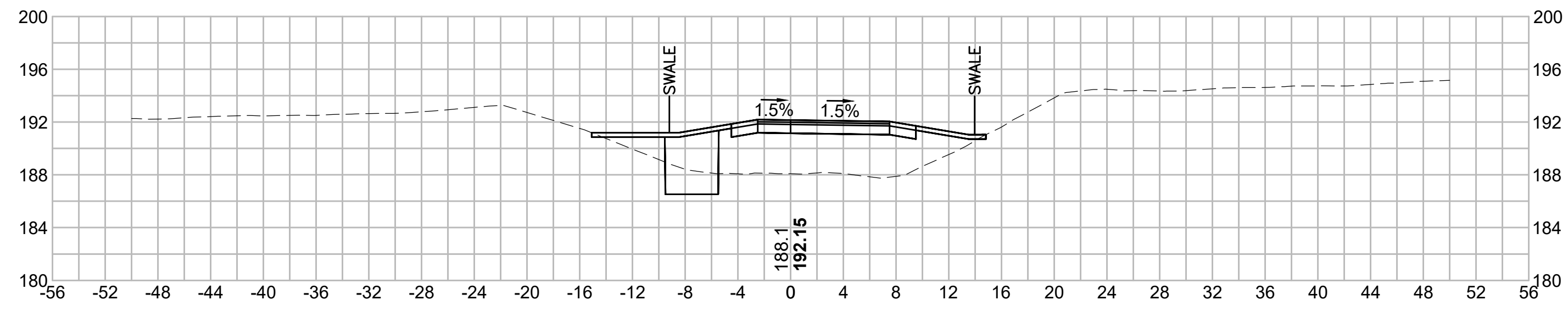
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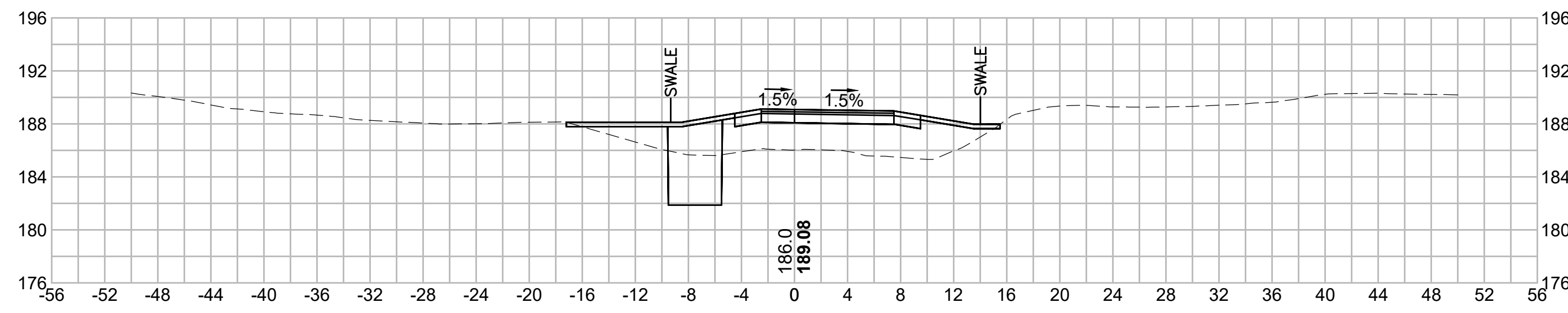
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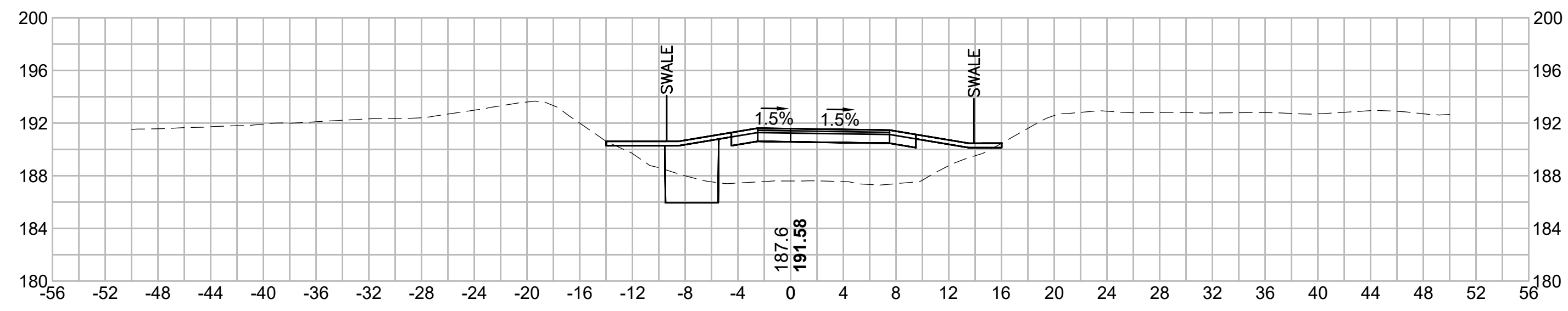
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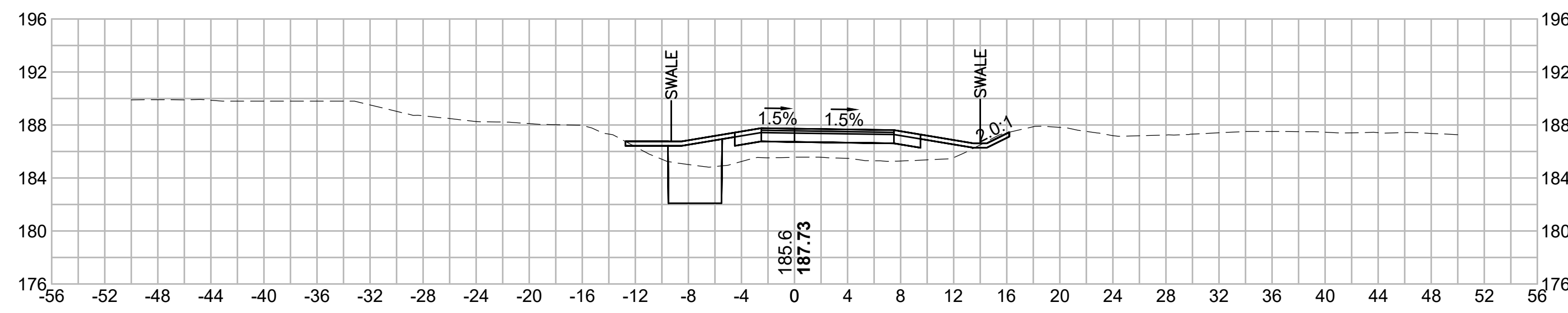
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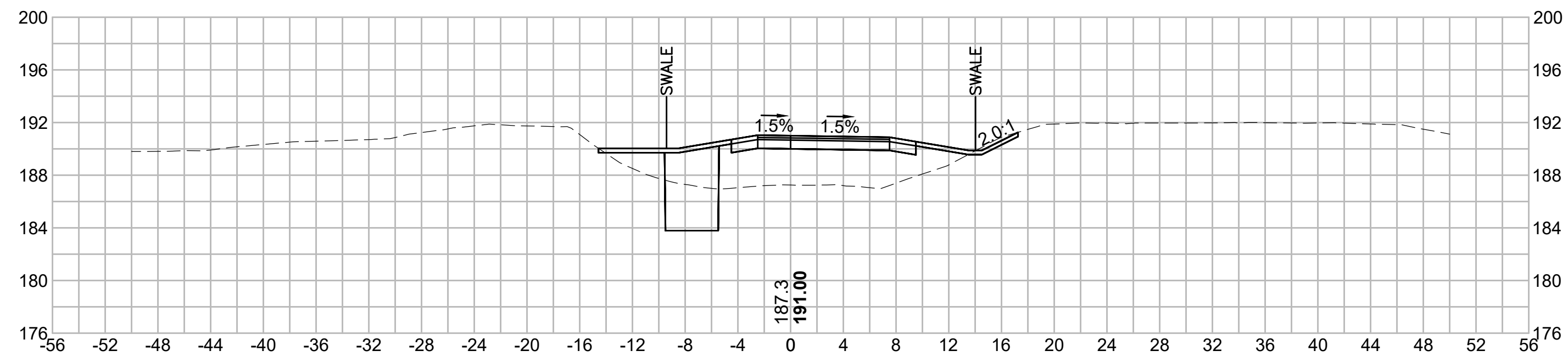
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503+00



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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 286 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C H'K D. SK	A P P R. MES
	DRAWING NO.	REV.		

1 2 3 4 5 6 7 8 9 10 11

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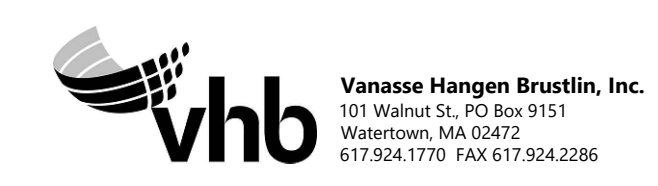
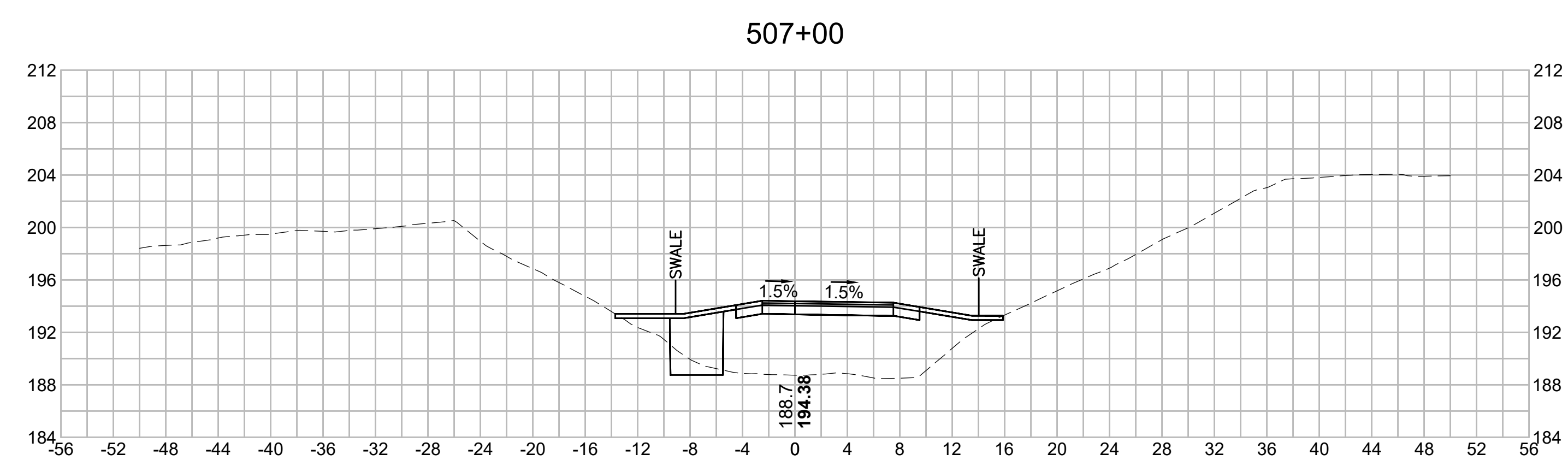
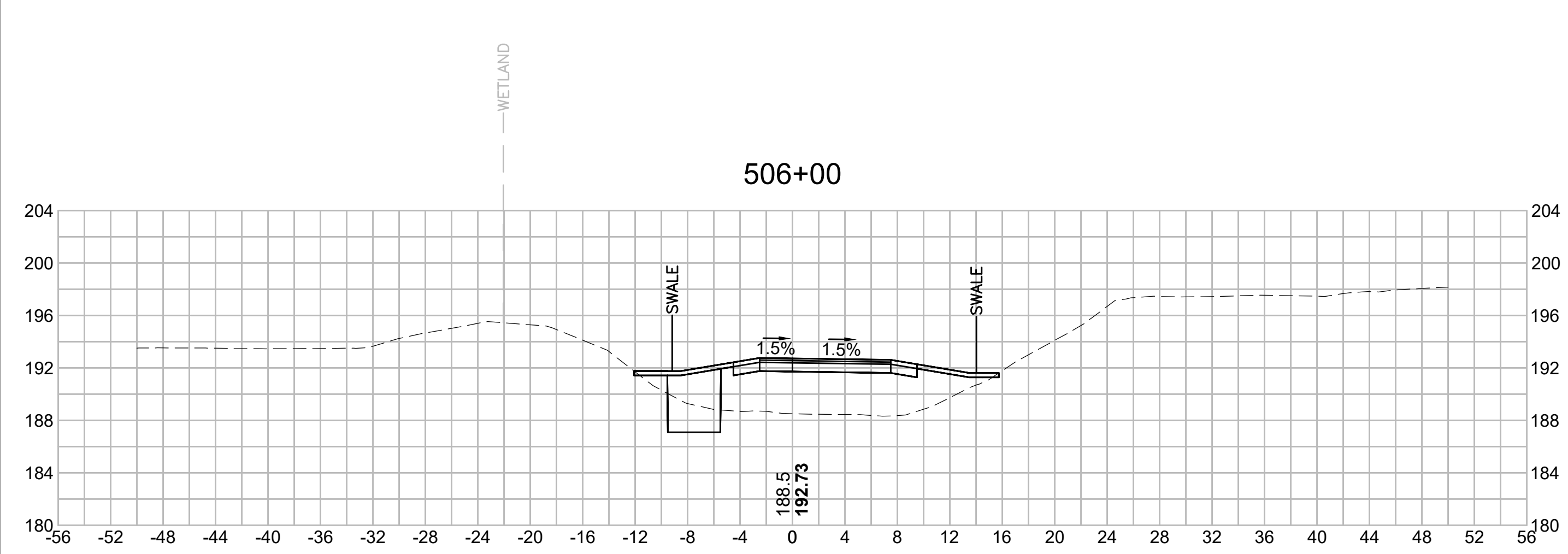
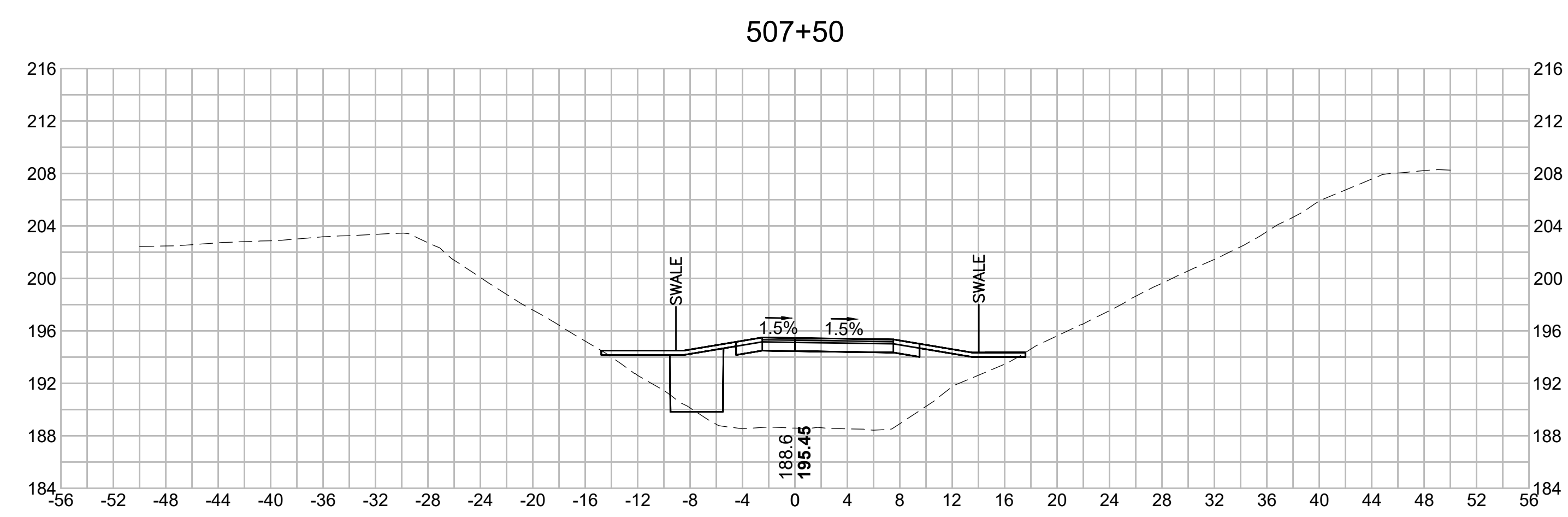
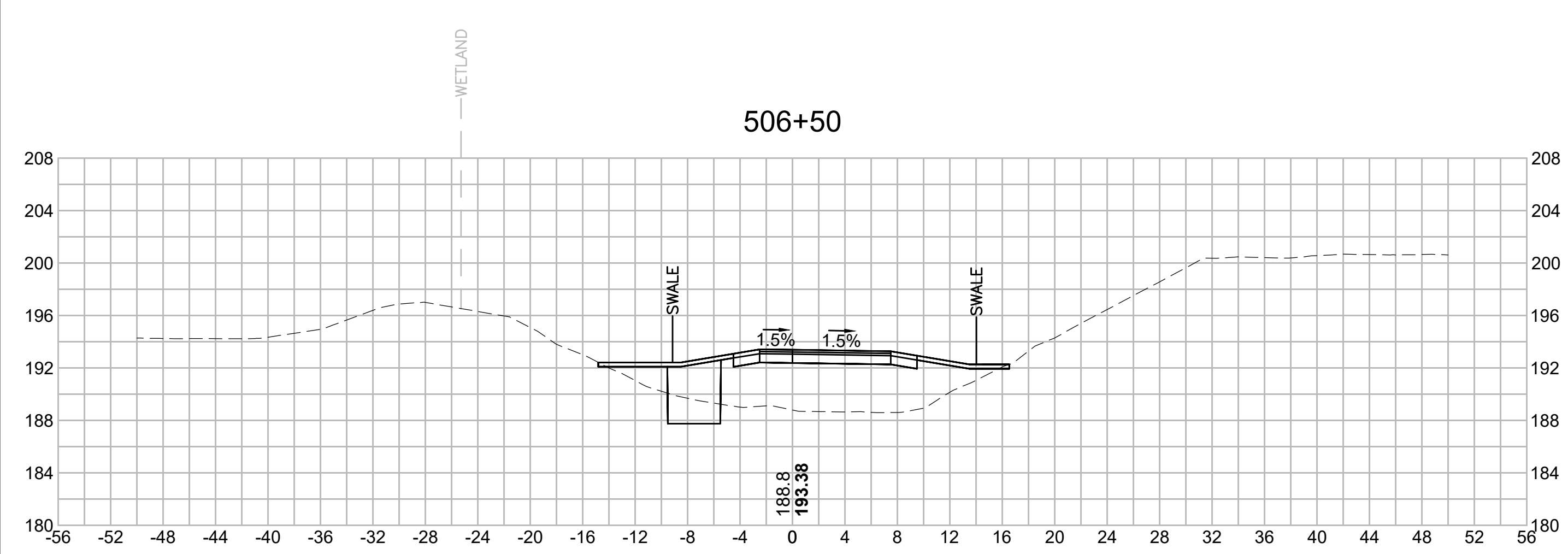
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NO.		DESCRIPTION		BY	DATE	APPR.
		REVISION				
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CROSS SECTIONS						
PLAN 287 OF 348						
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.

1 2 3 4 5 6 7 8 9 10 11

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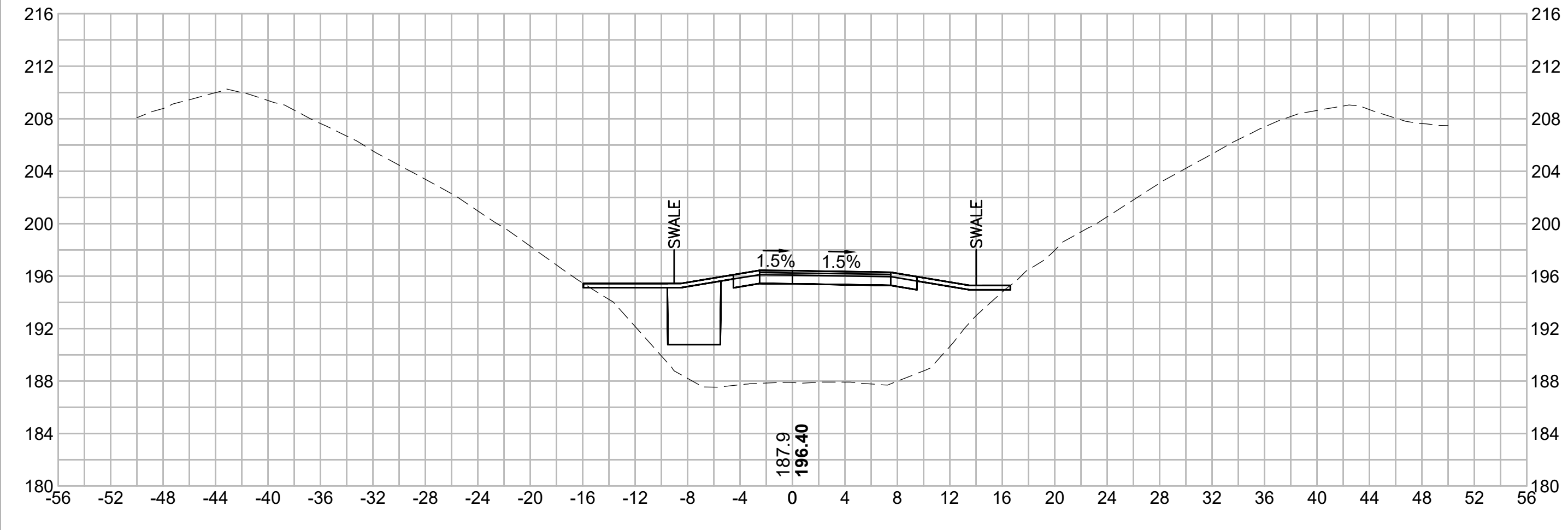
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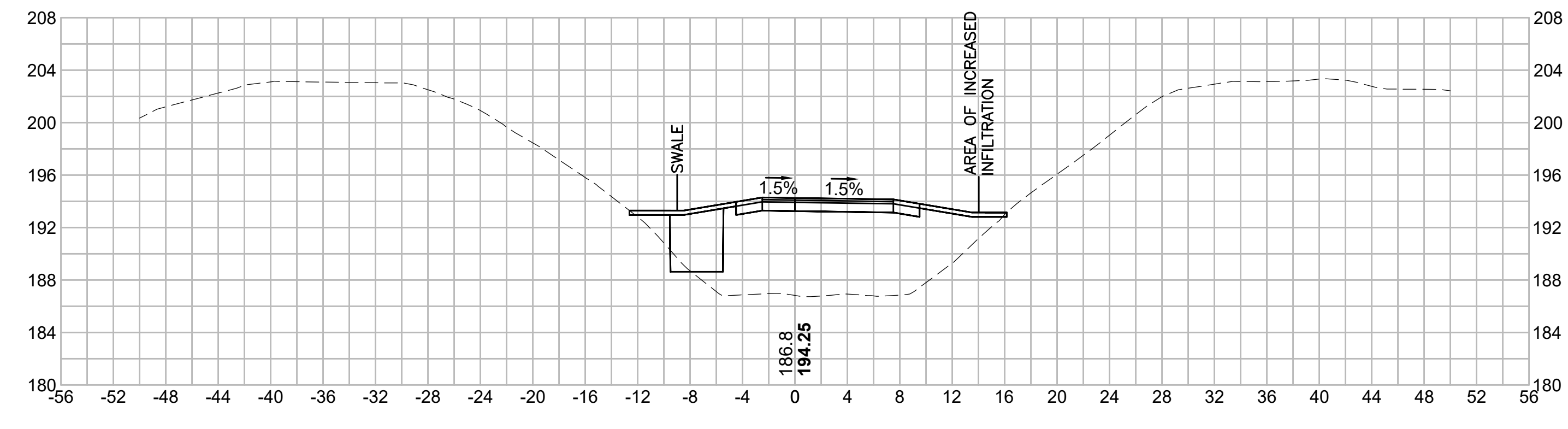
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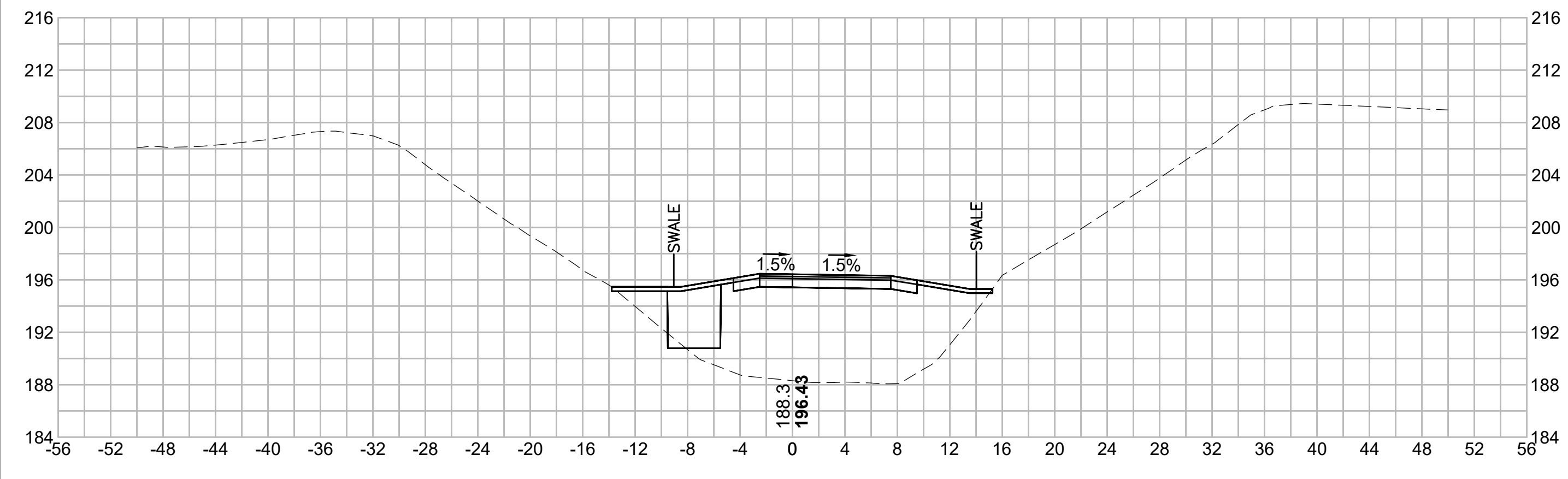
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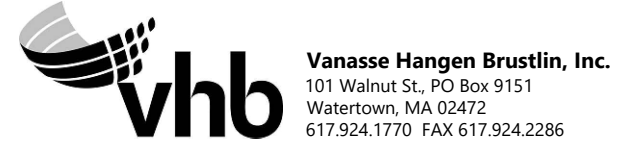
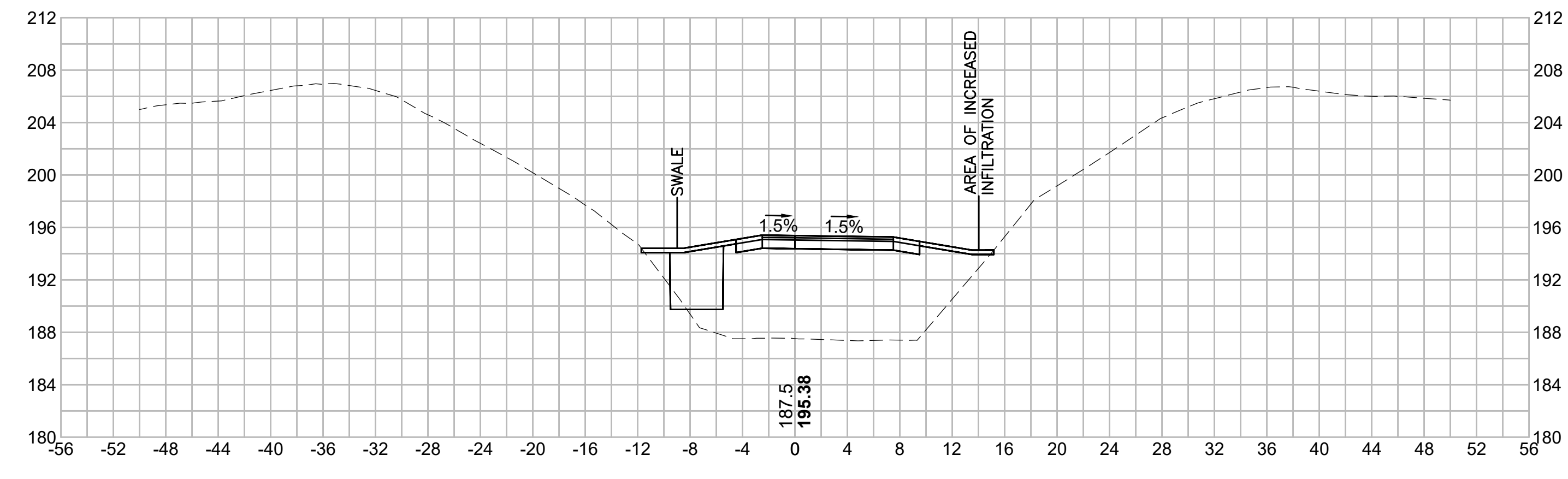
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

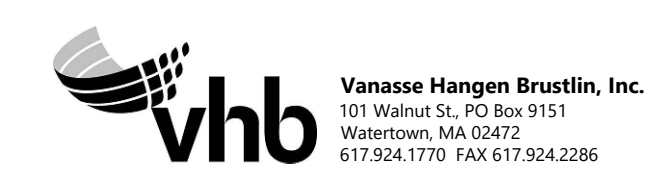
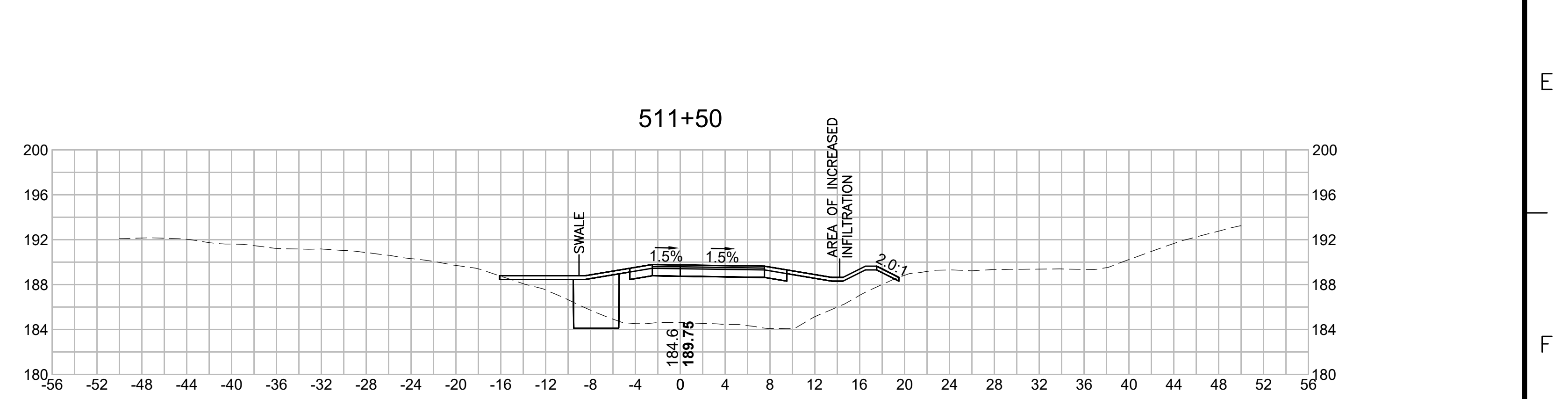
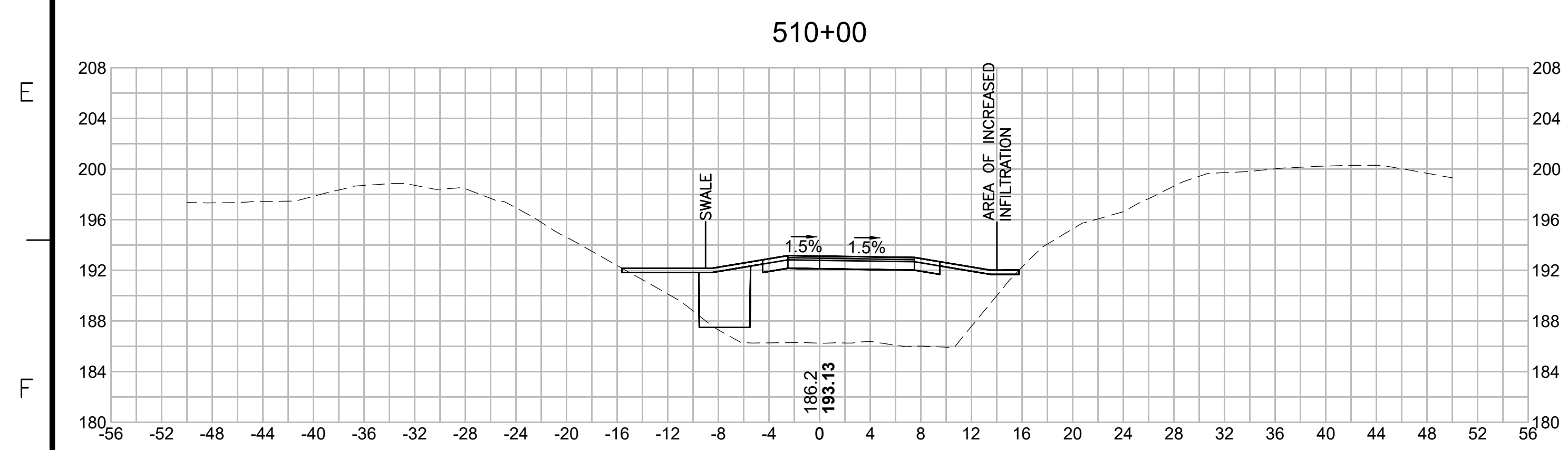
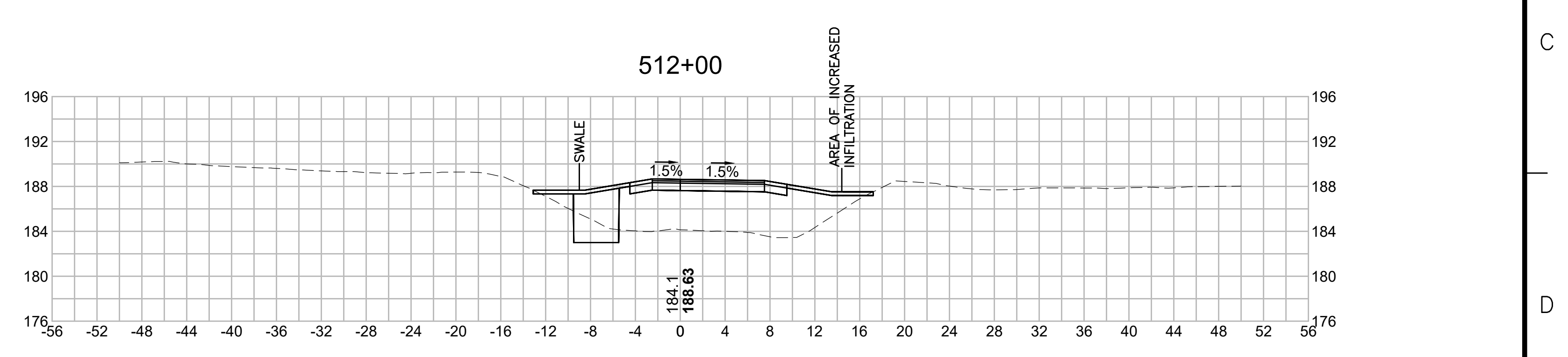
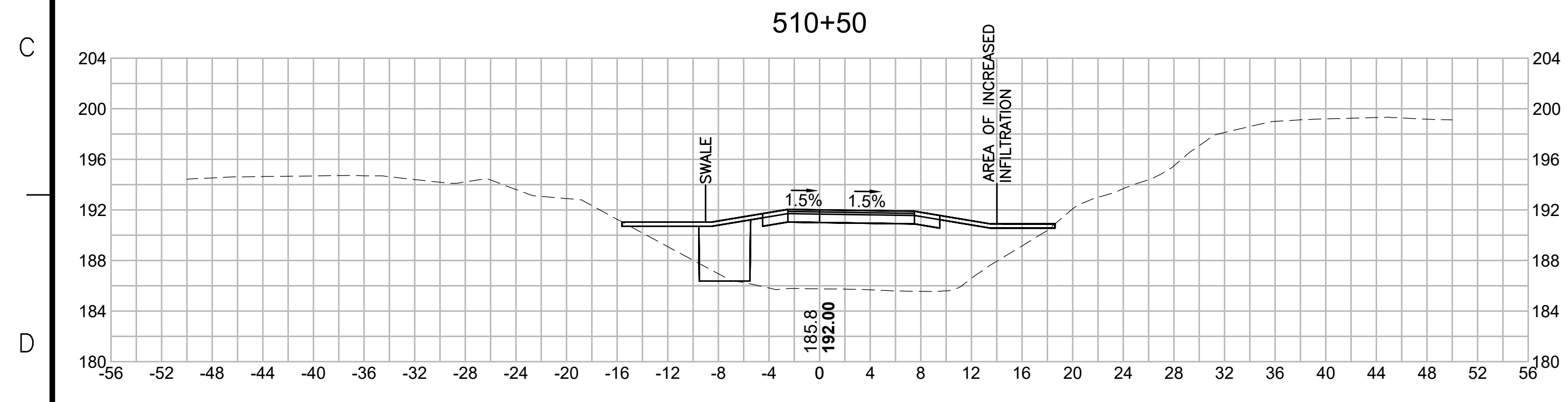
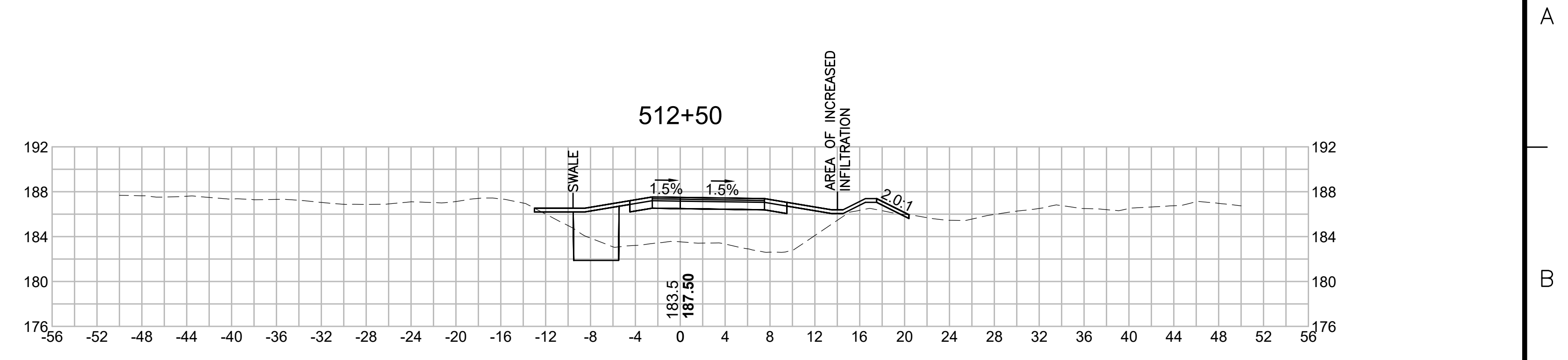
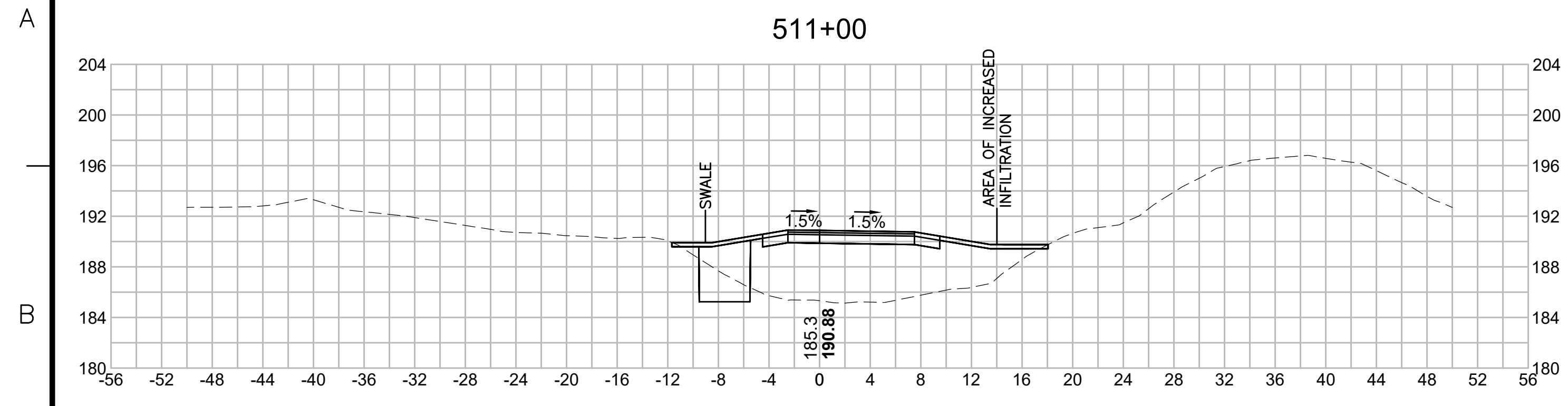
EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS
PLAN 288 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 289 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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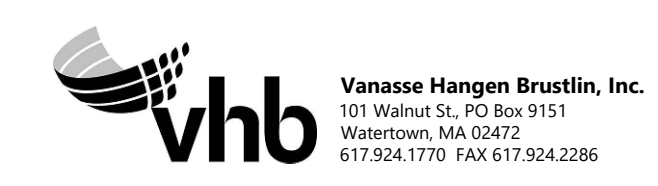
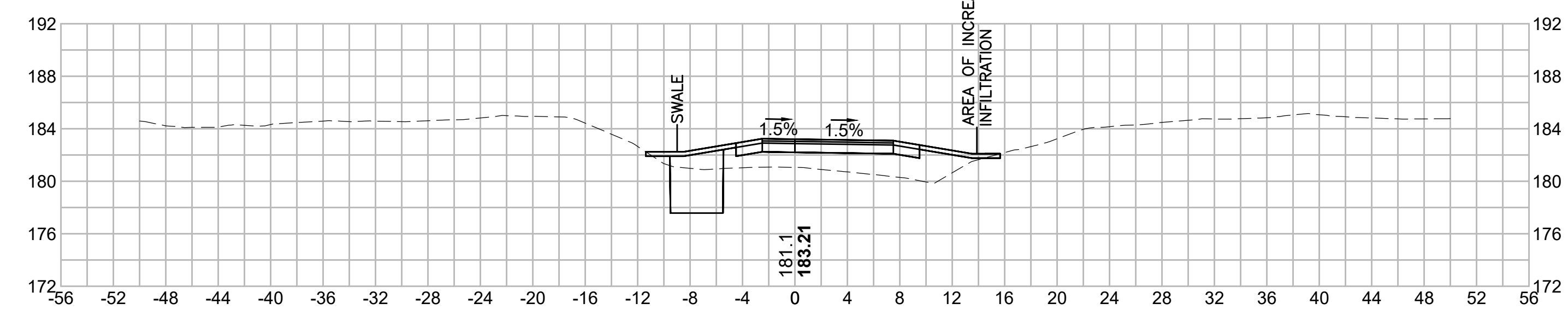
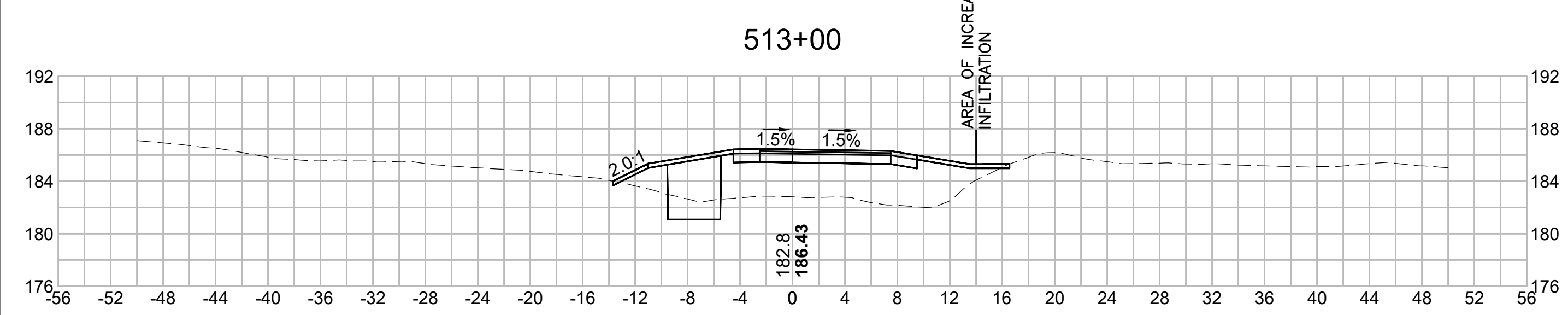
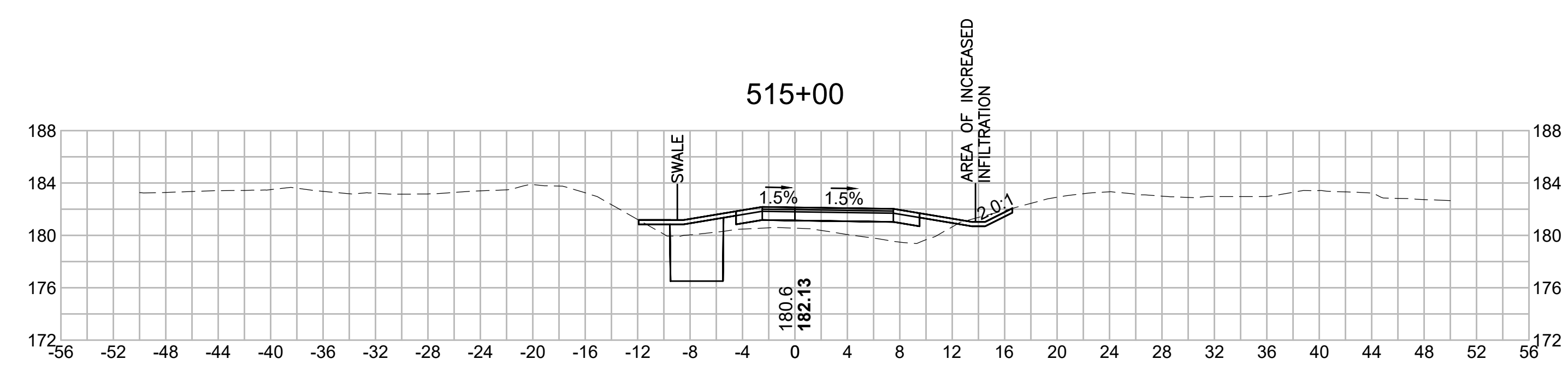
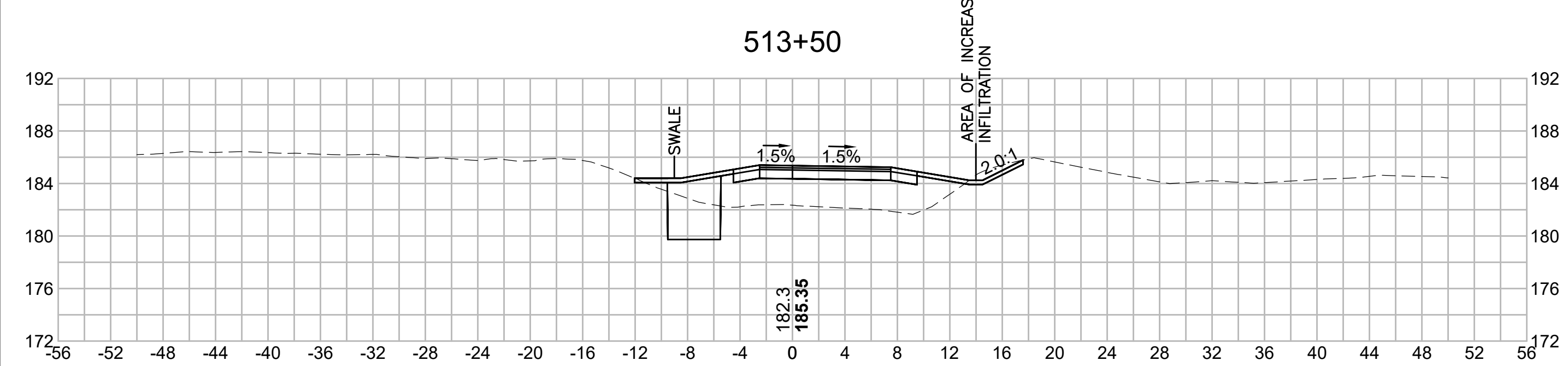
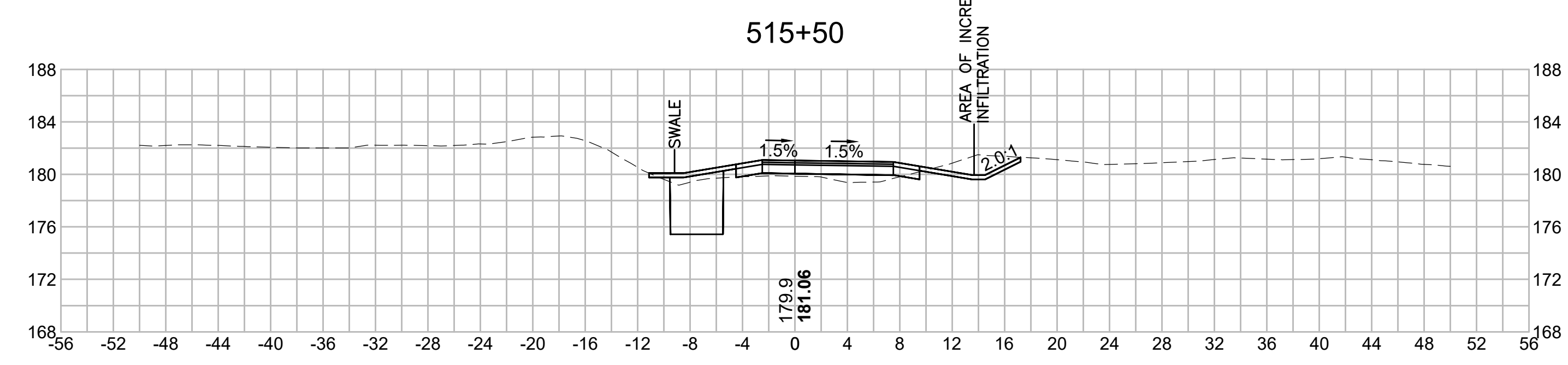
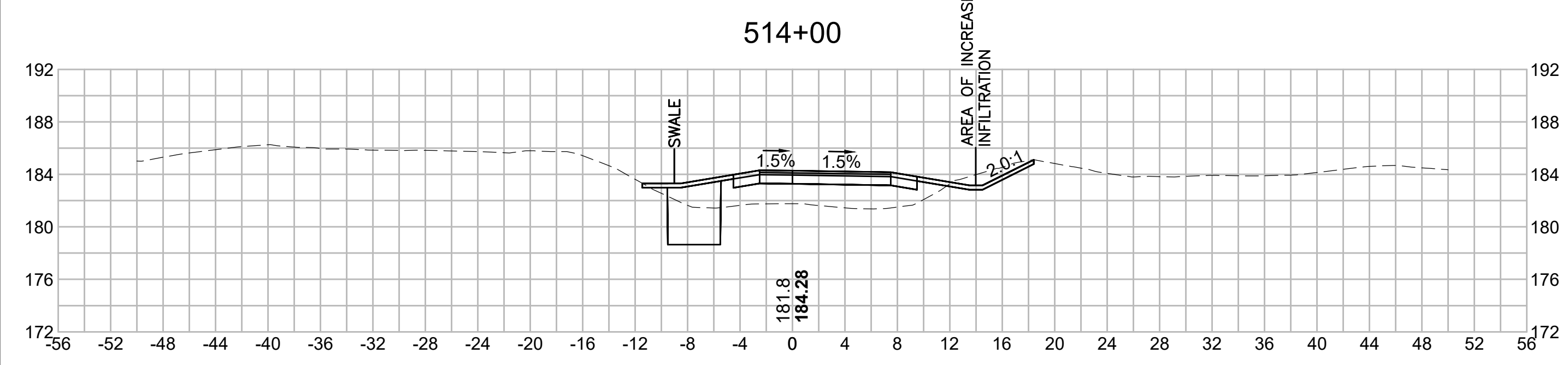
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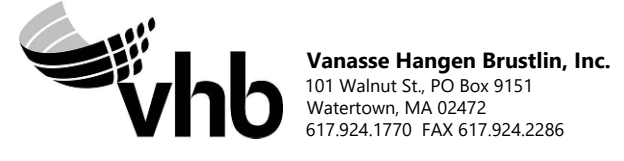
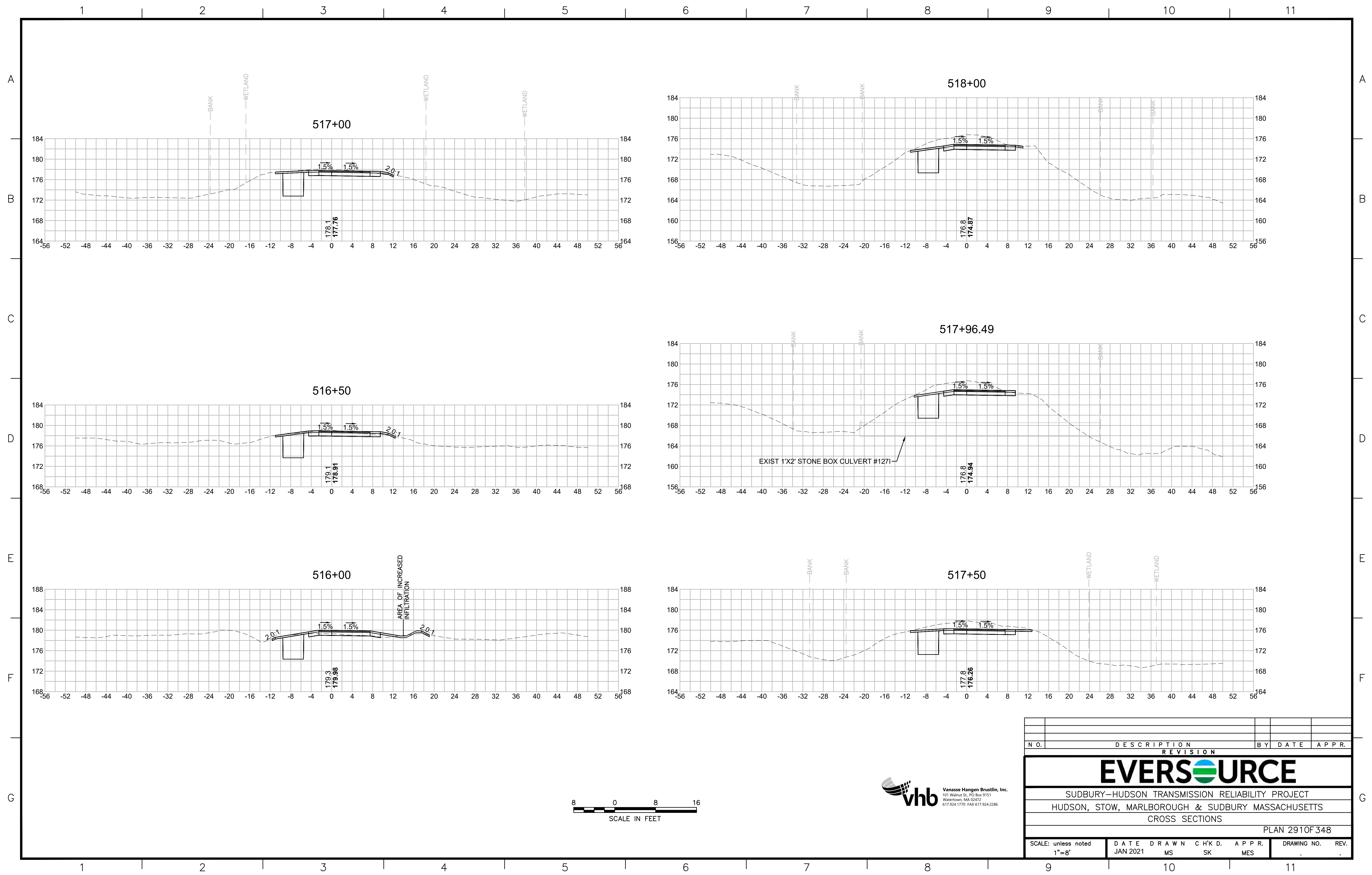
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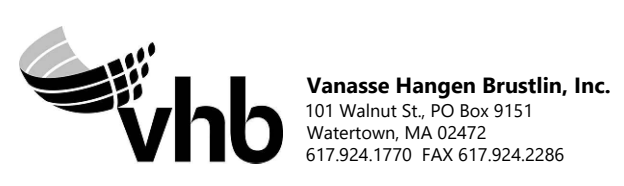
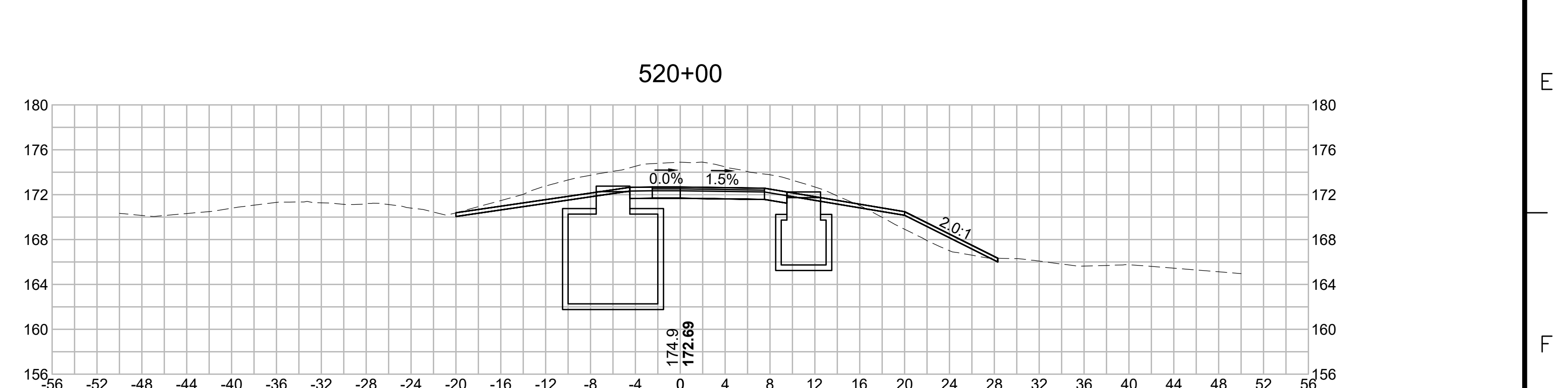
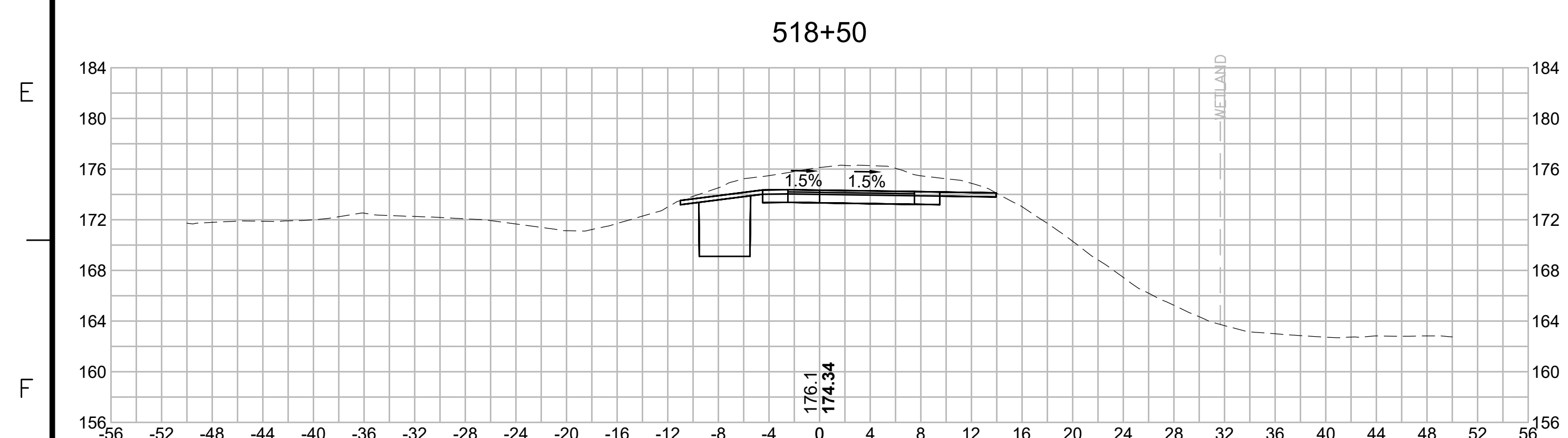
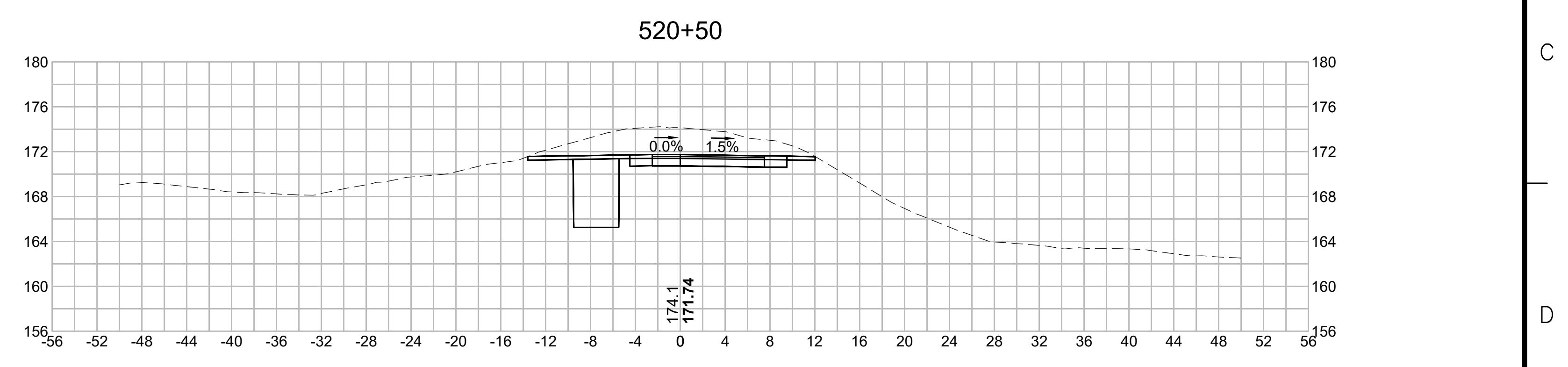
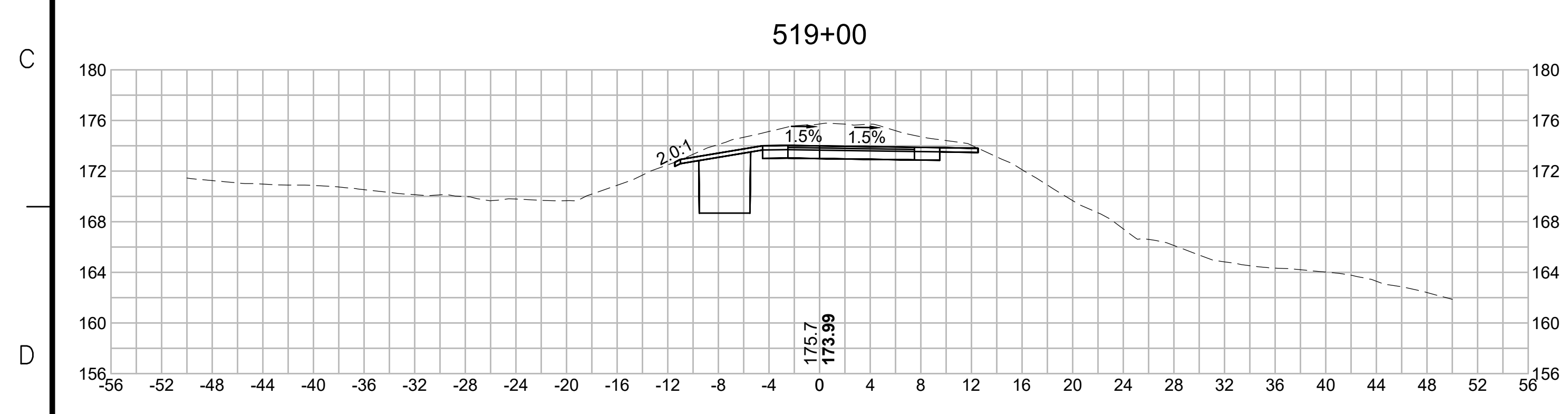
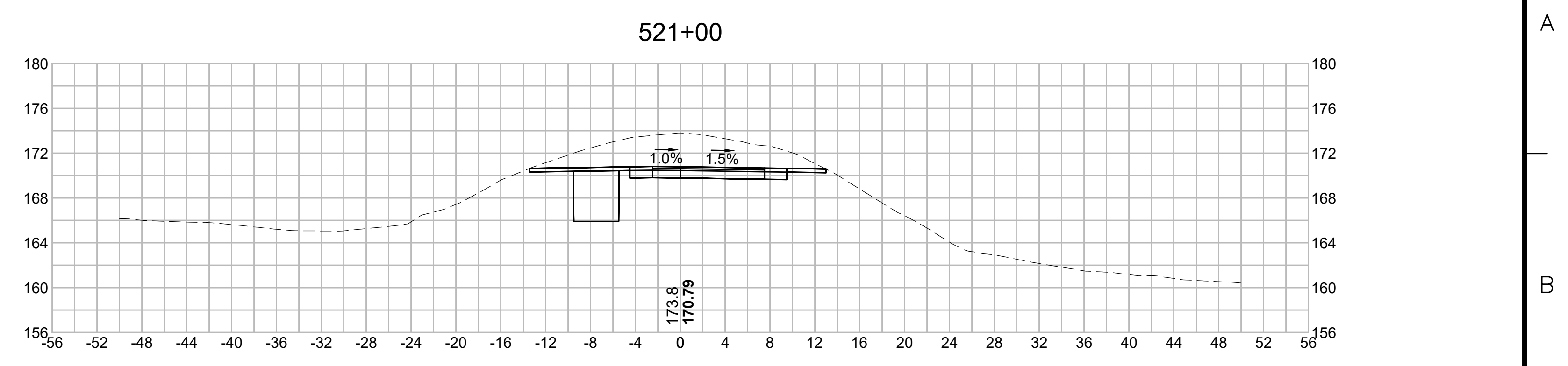
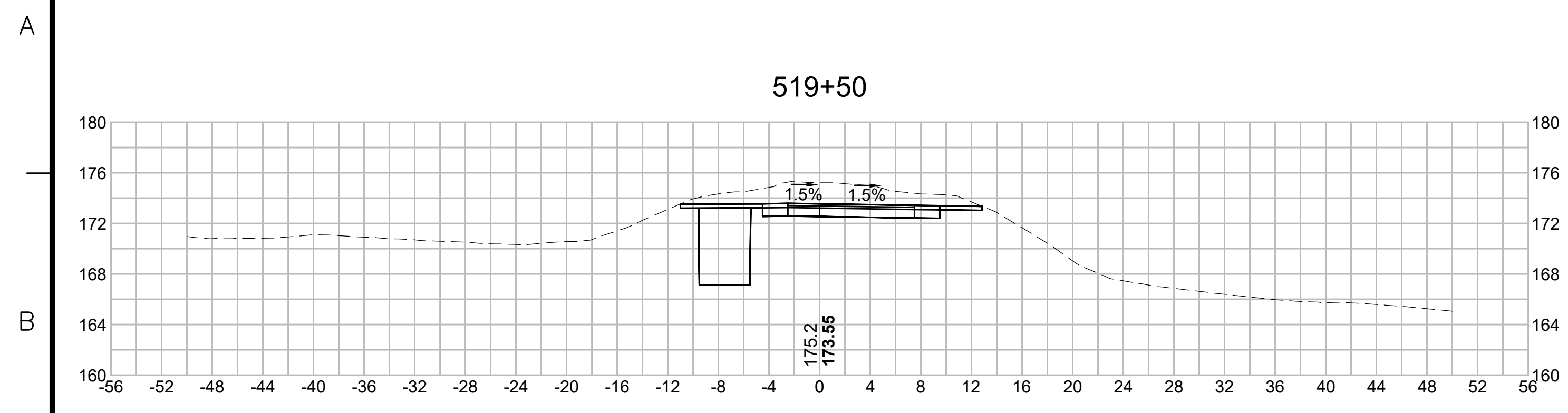
N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 290 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
	DRAWING NO.	REV.		

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NO.	DESCRIPTION		BY	DATE	APPR.
	REVISION				
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
CROSS SECTIONS					
PLAN 2910F348					
SCALE: unless noted 1"=8'		DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.				REV.	

1 2 3 4 5 6 7 8 9 10 11



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

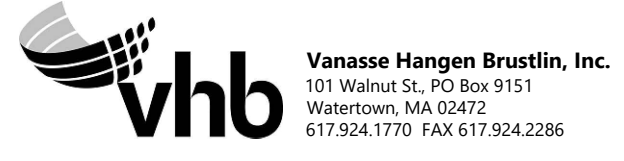
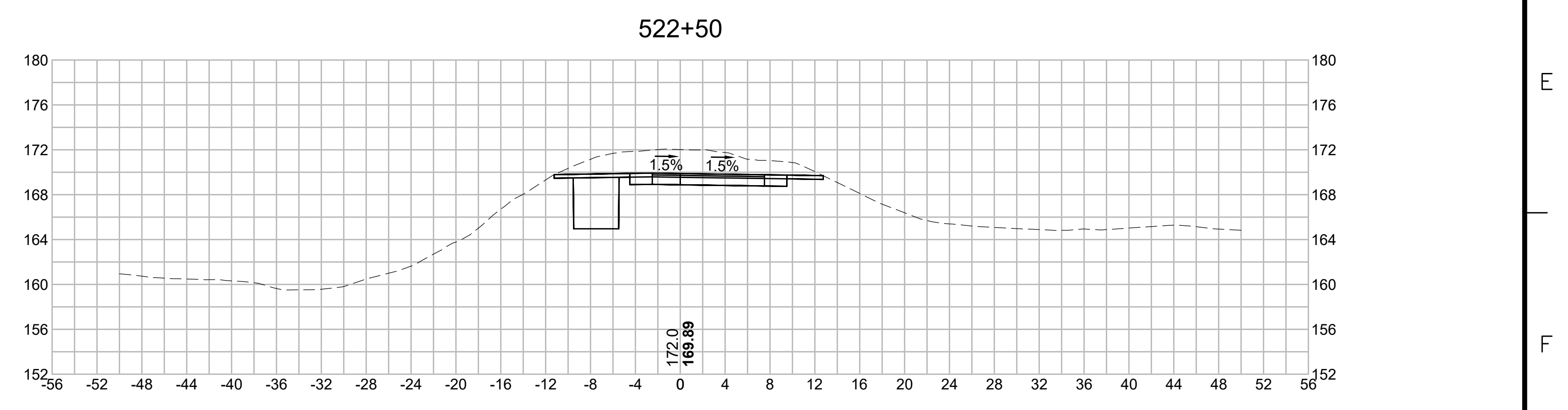
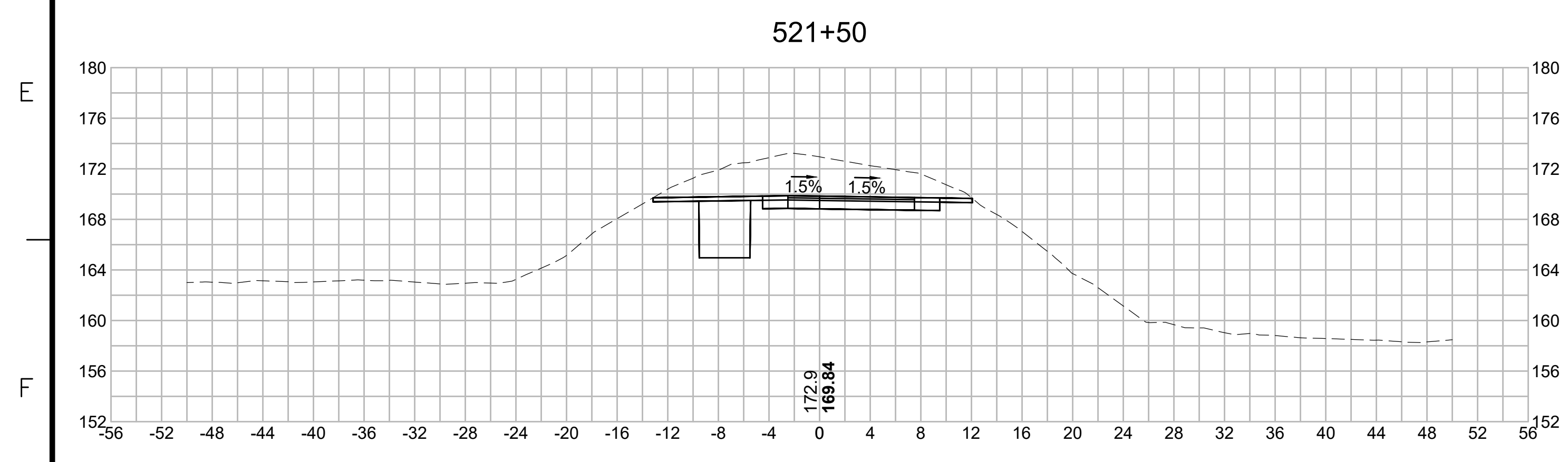
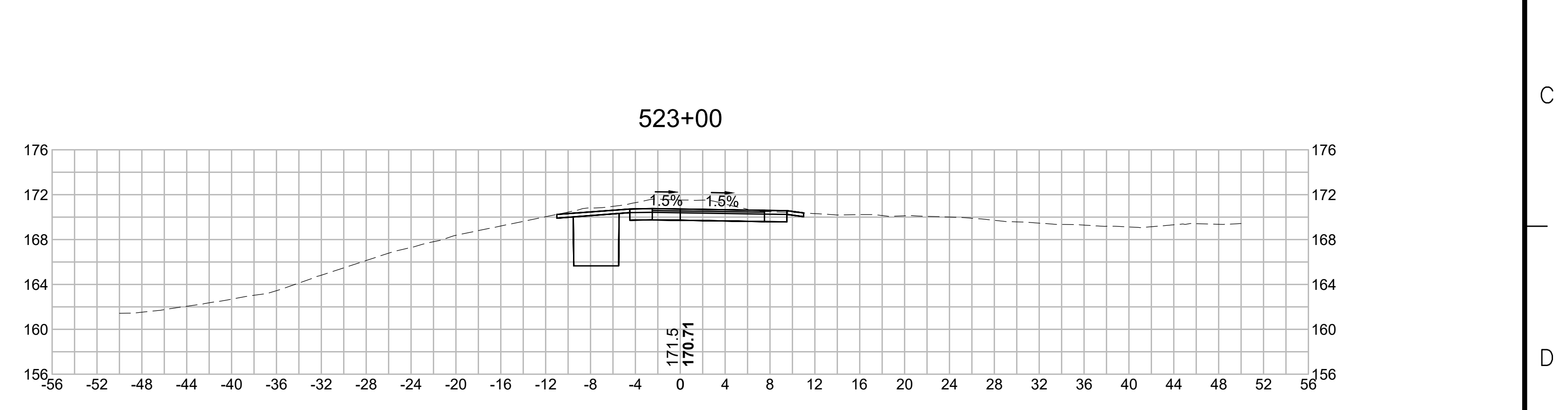
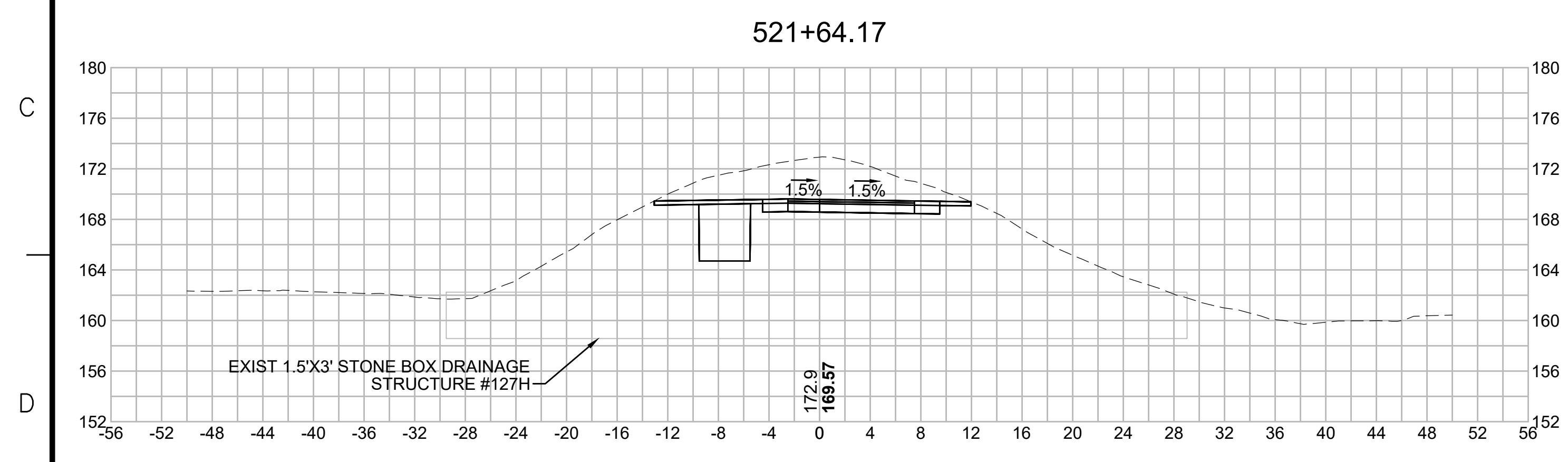
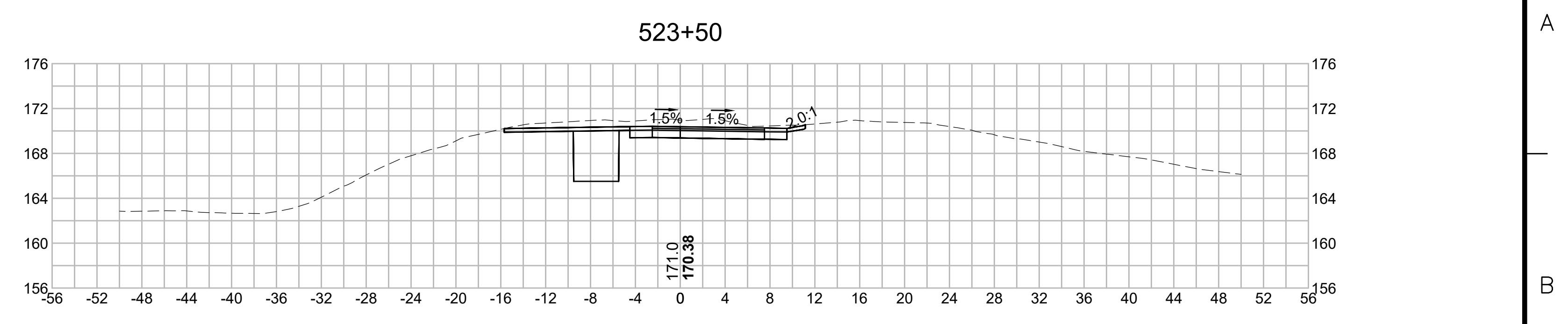
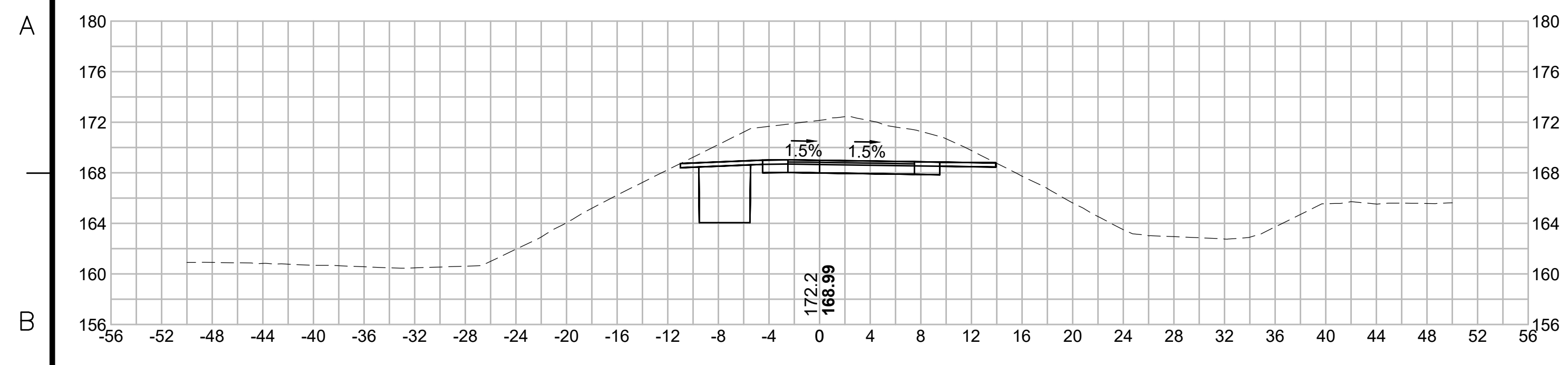
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 292 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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1 2 3 4 5 6 7 8 9 10 11

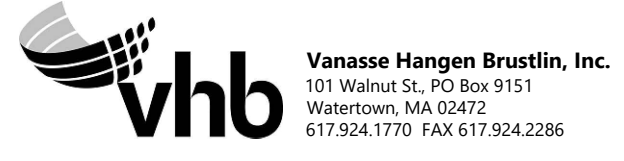
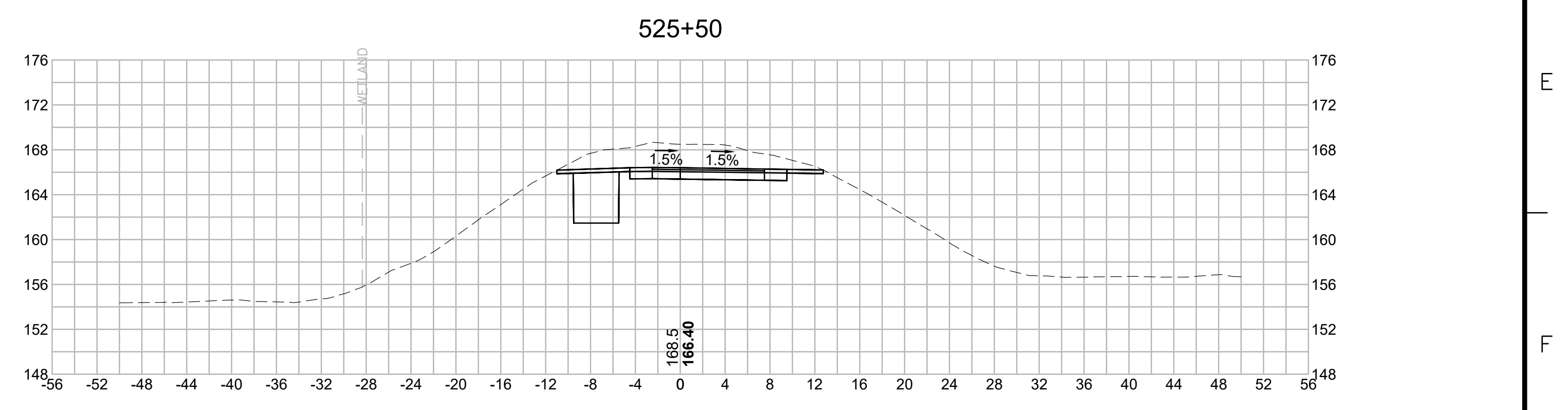
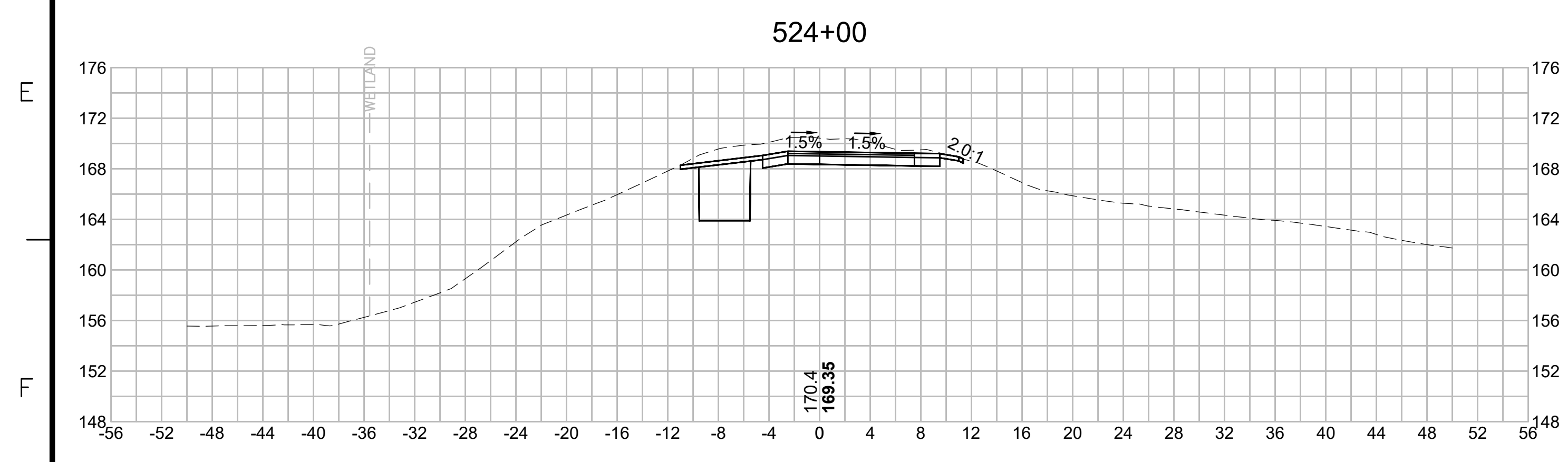
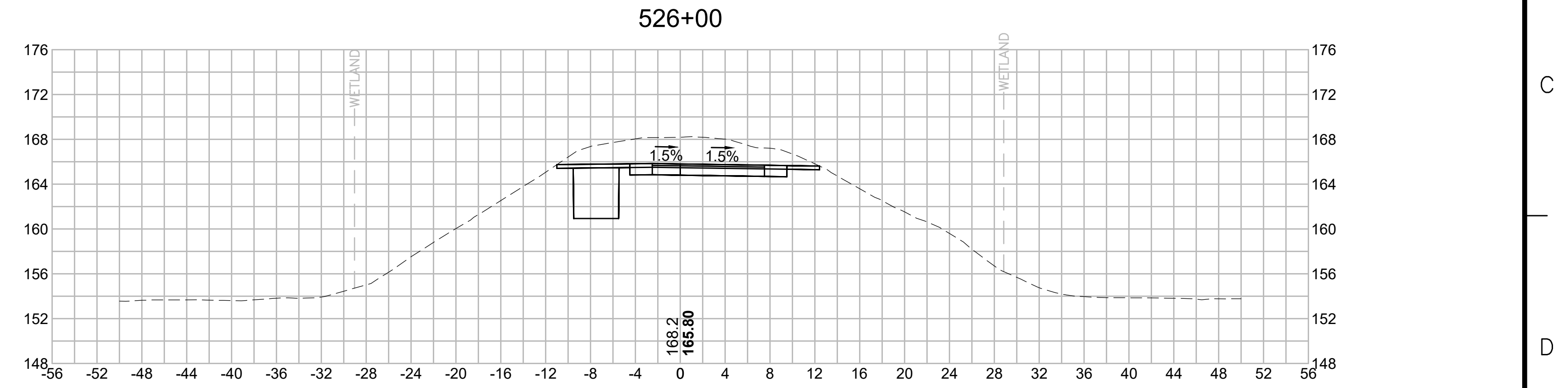
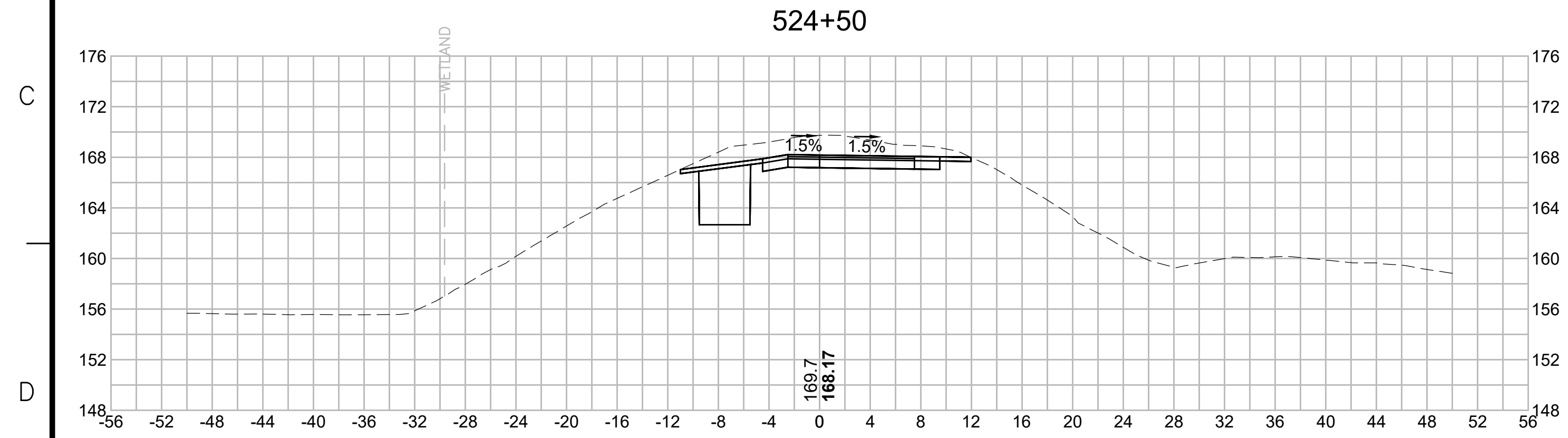
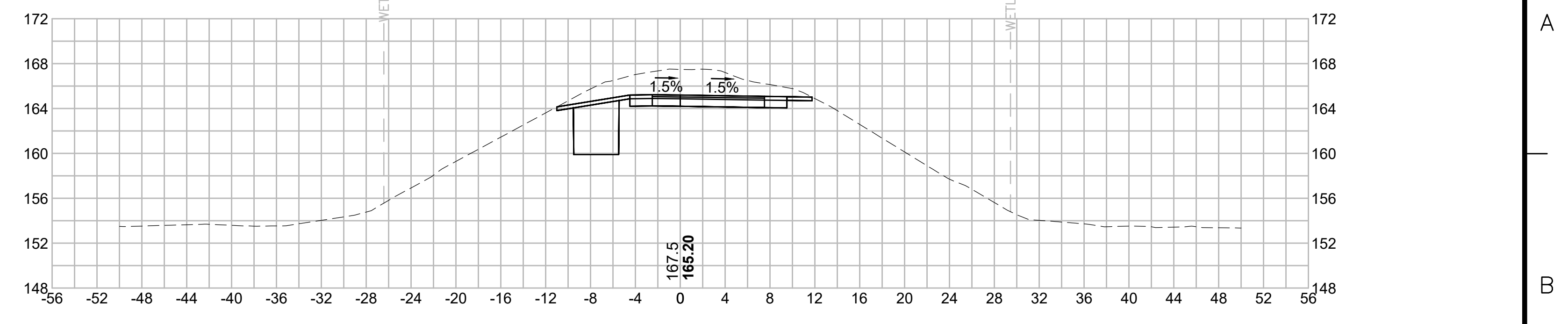
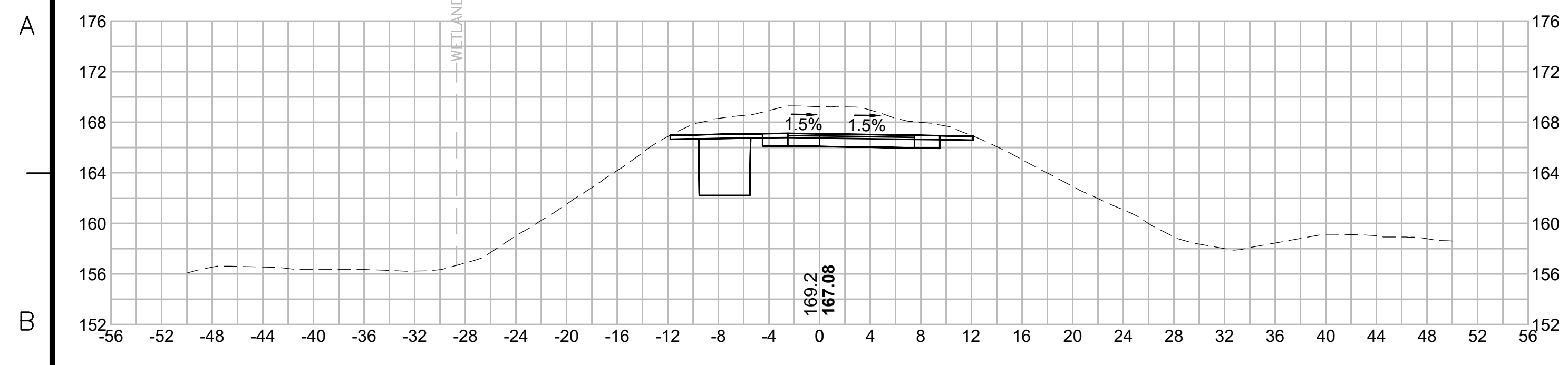
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 293 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

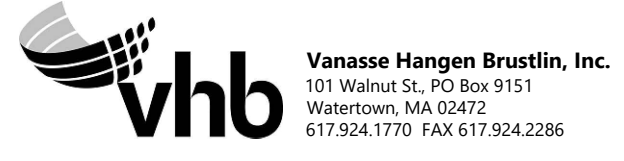
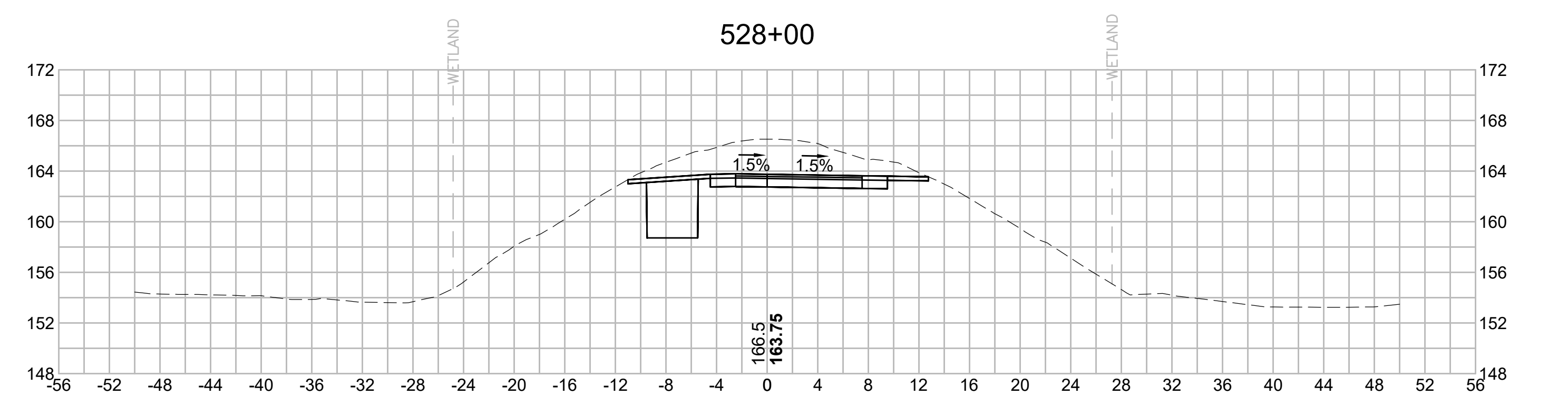
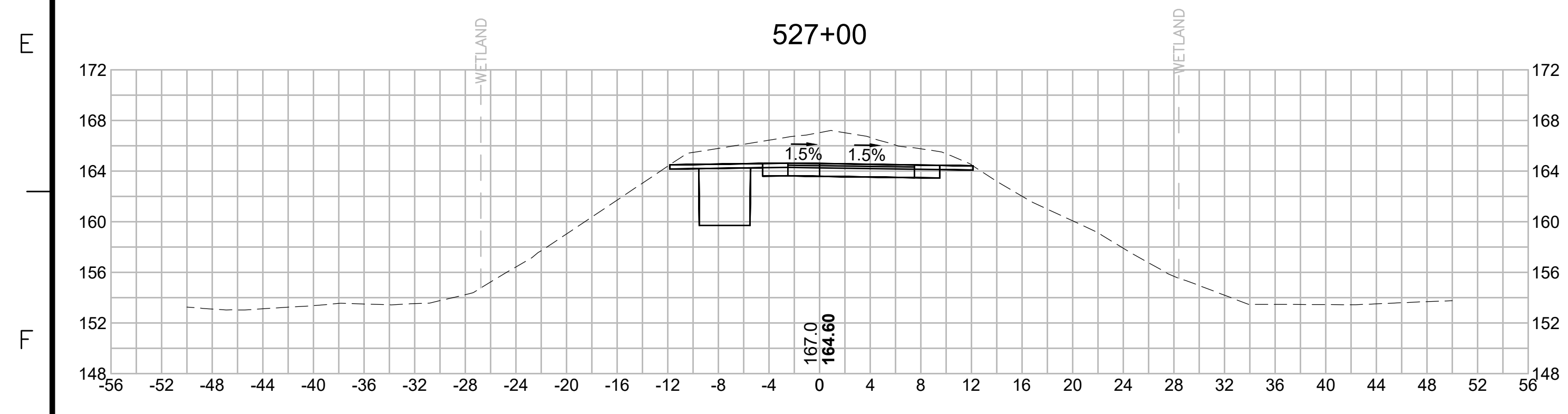
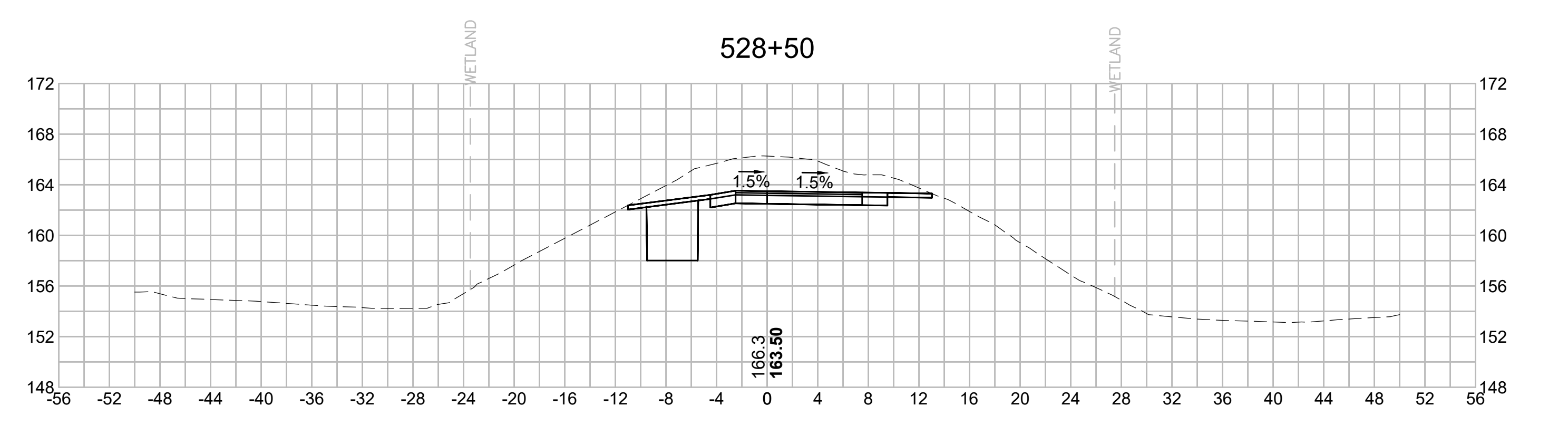
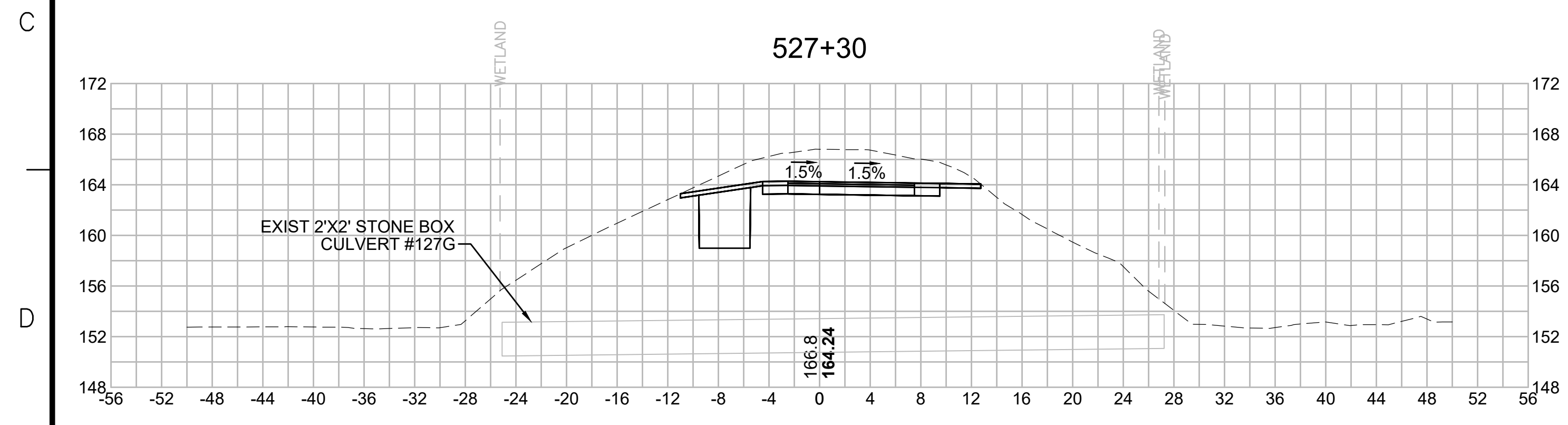
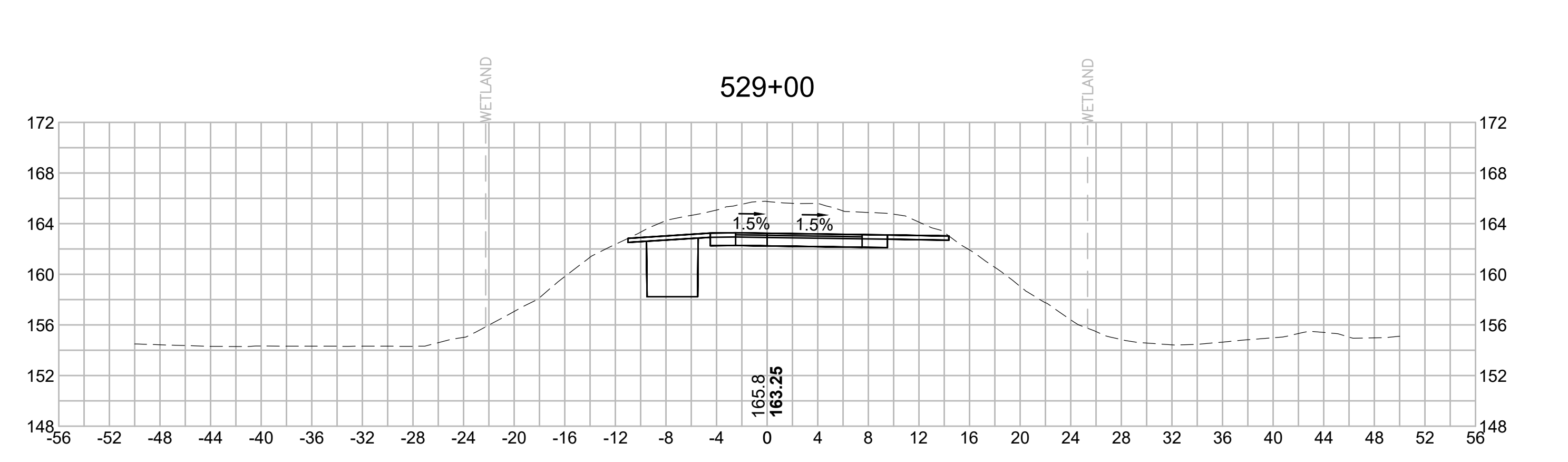
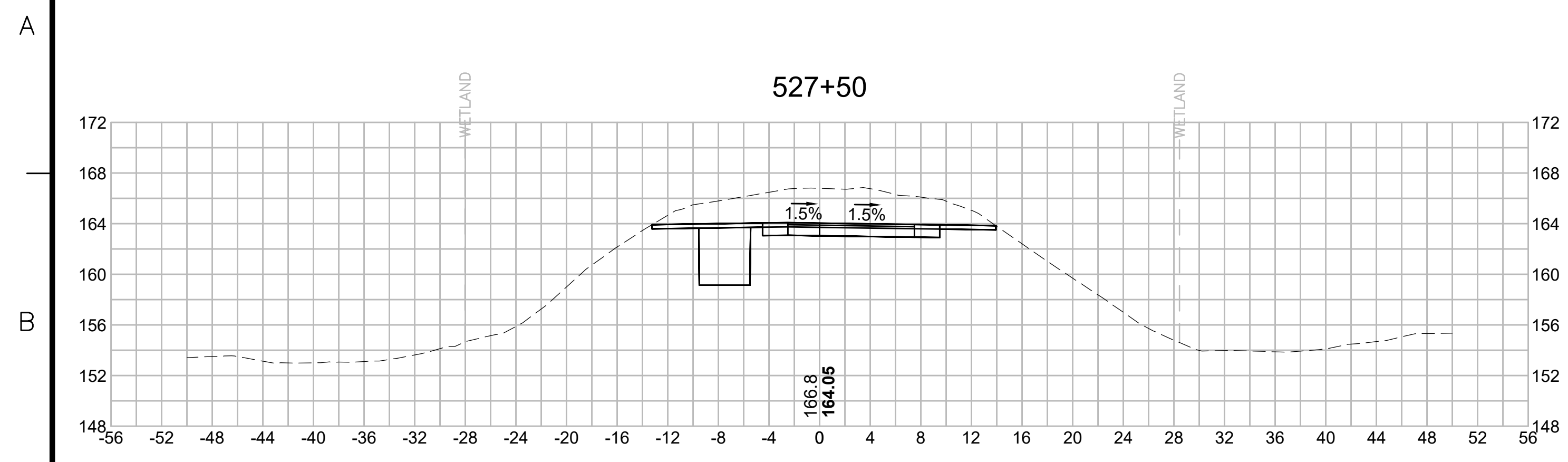
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

PLAN 294 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 295 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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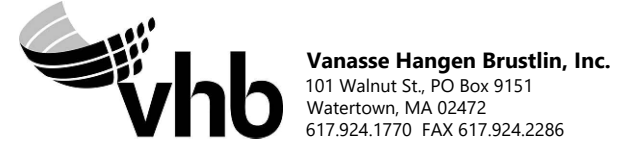
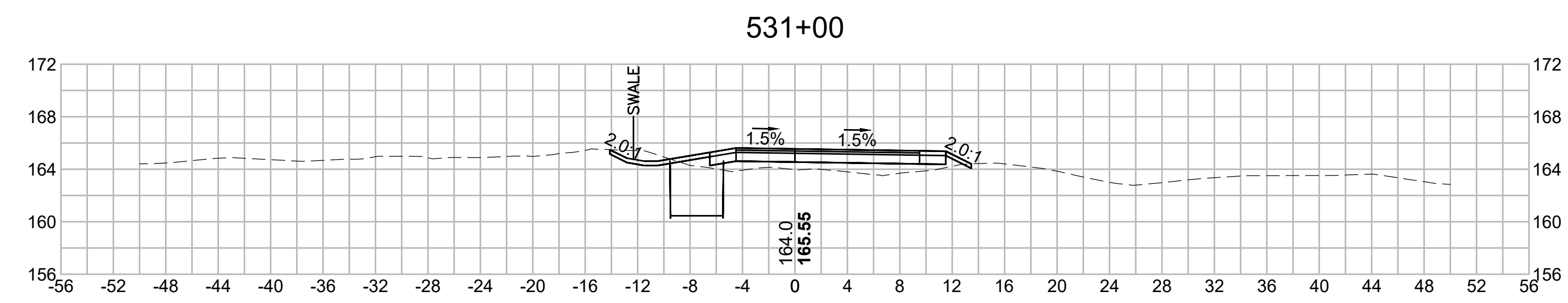
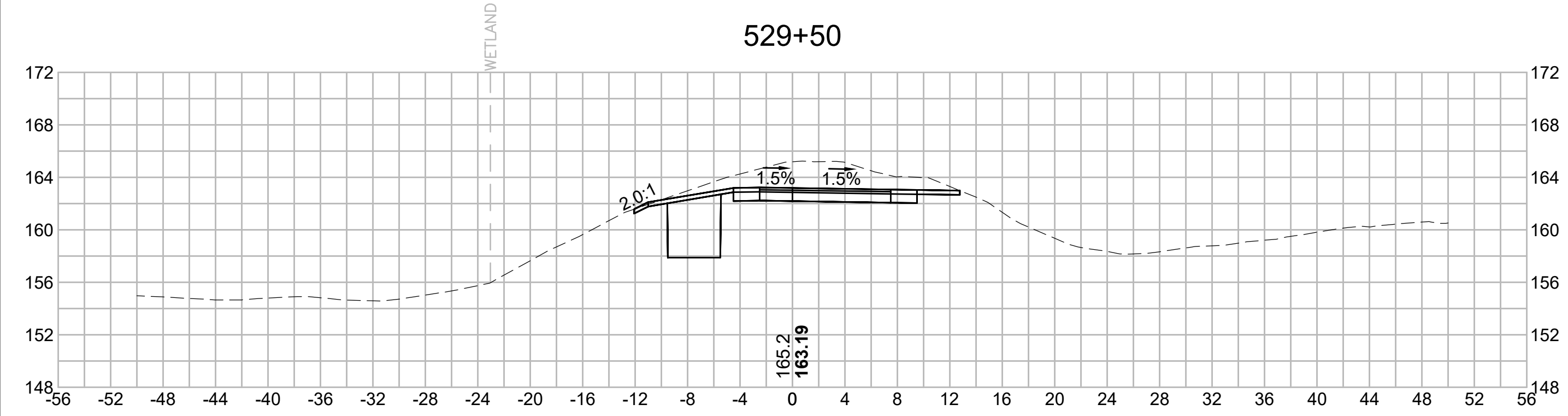
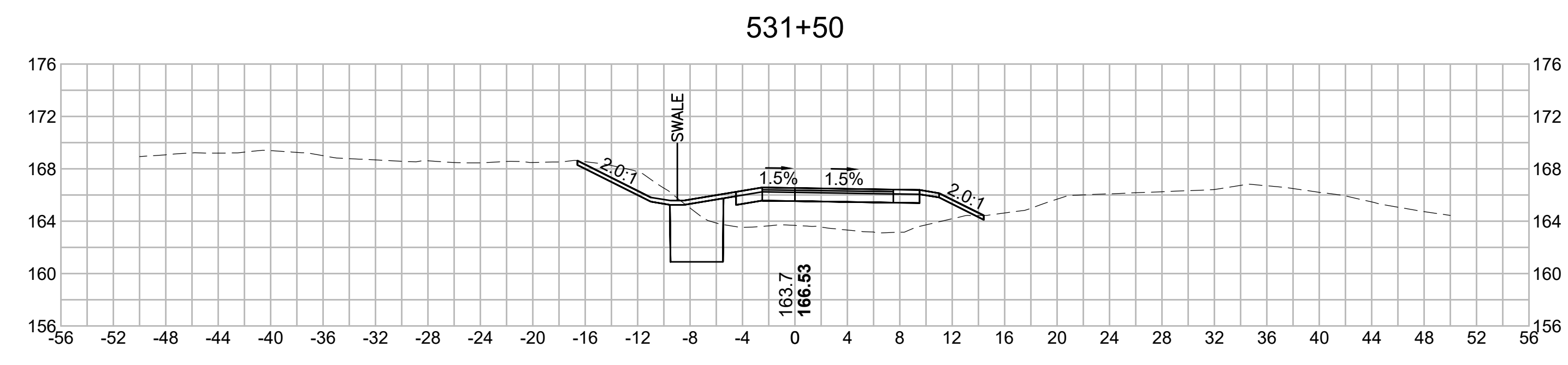
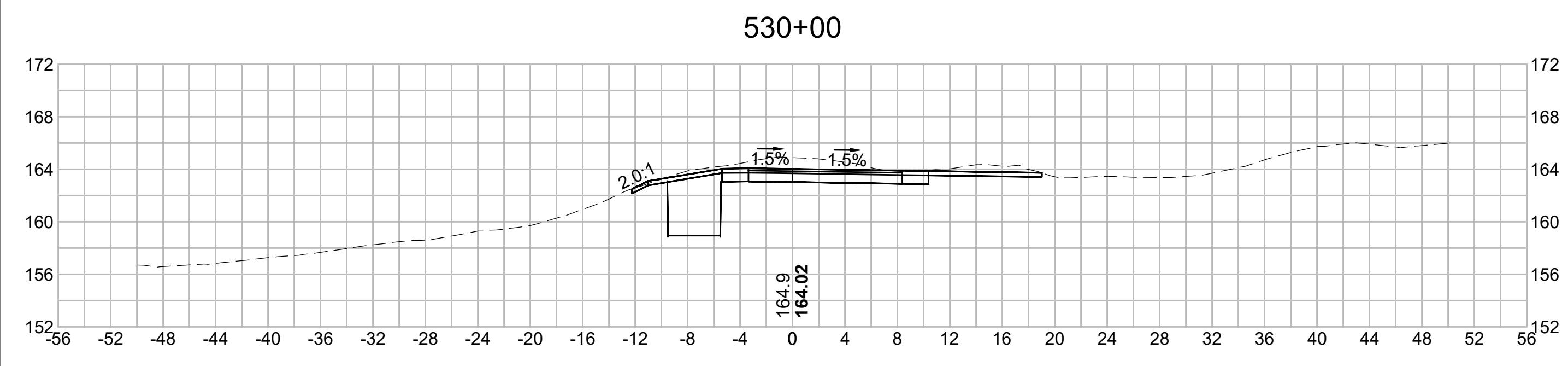
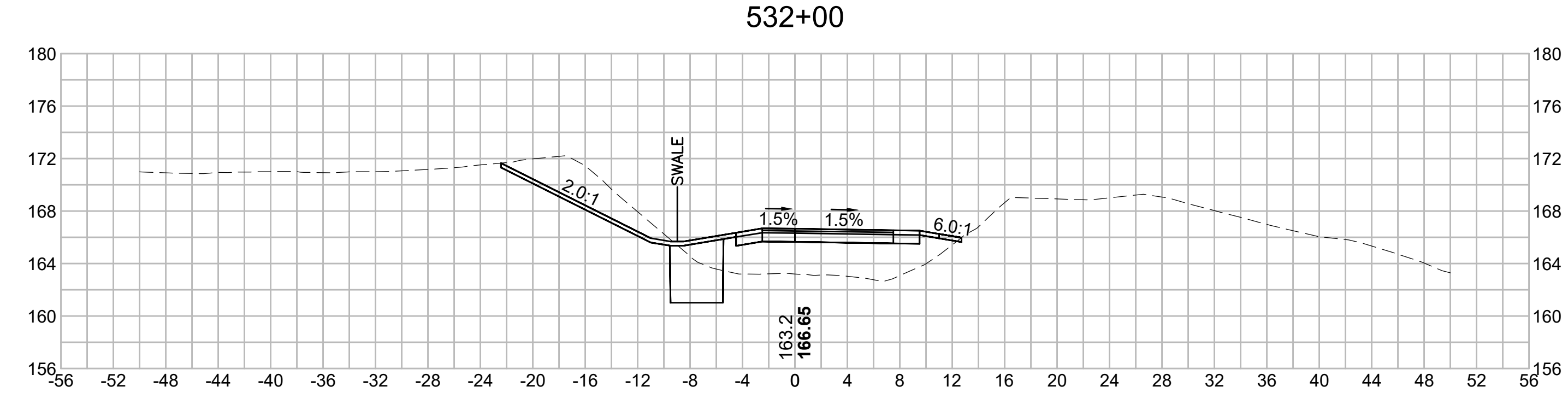
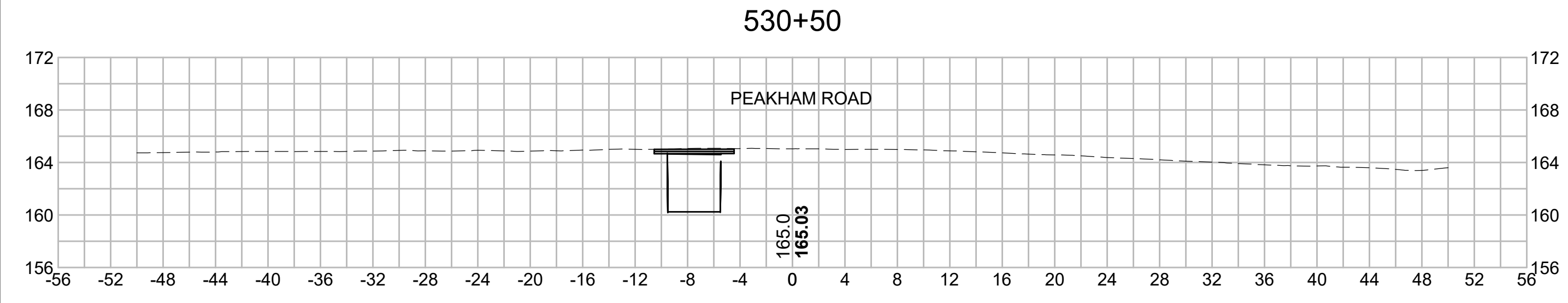
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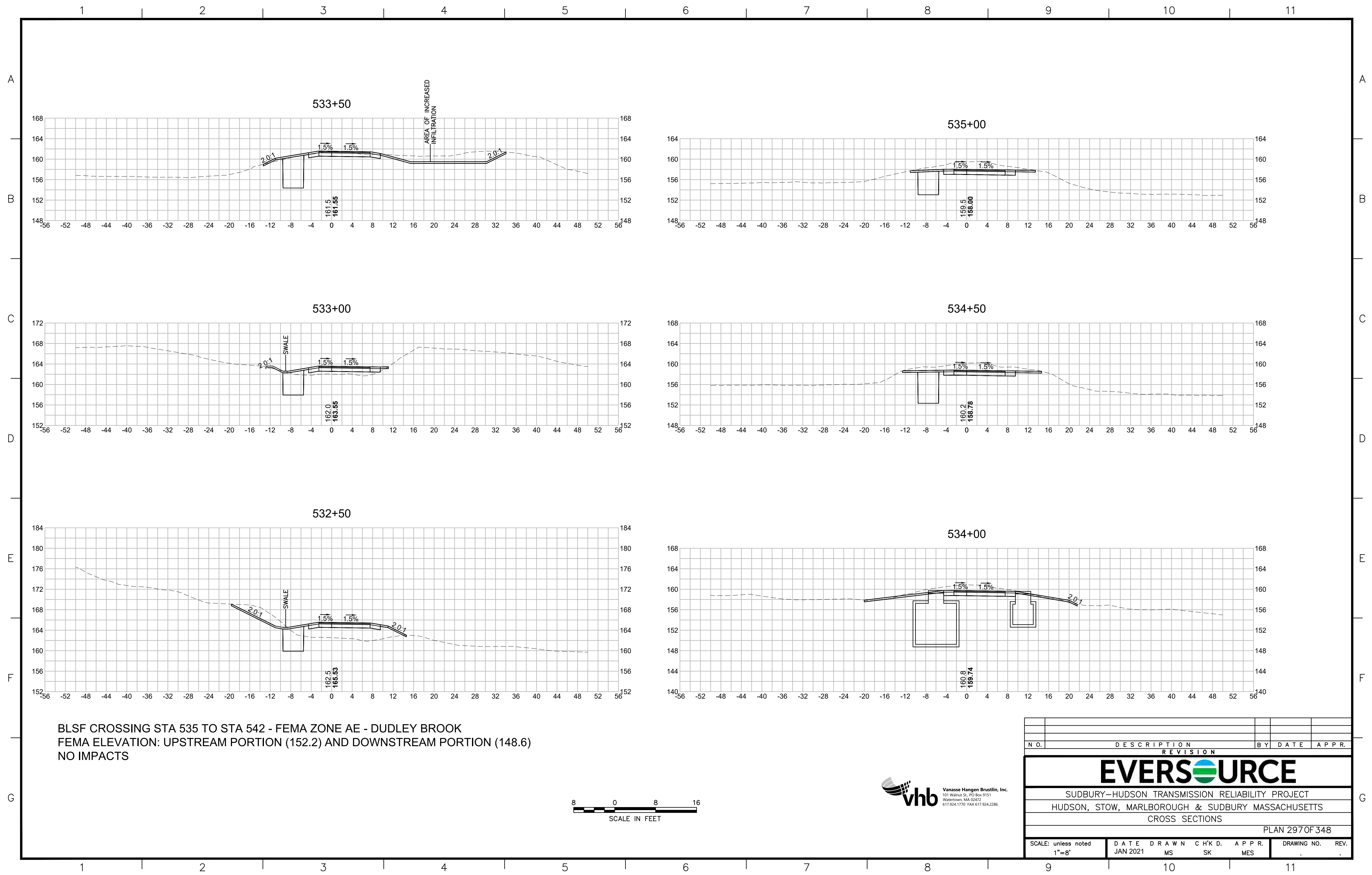
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 296 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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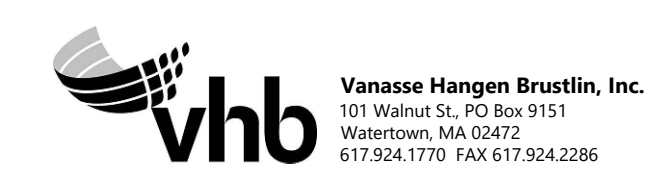
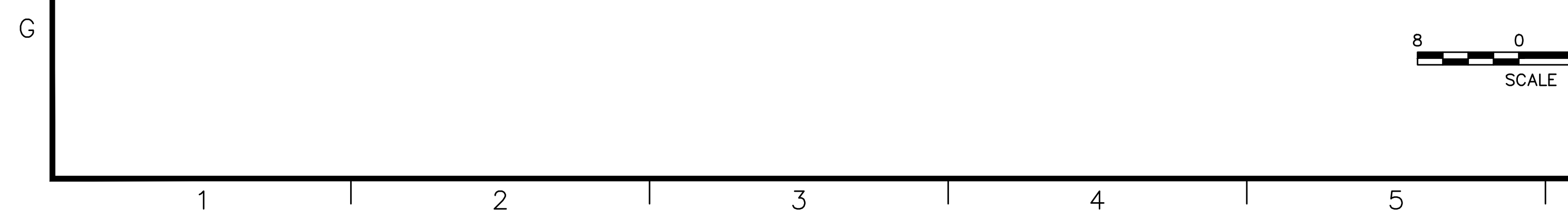
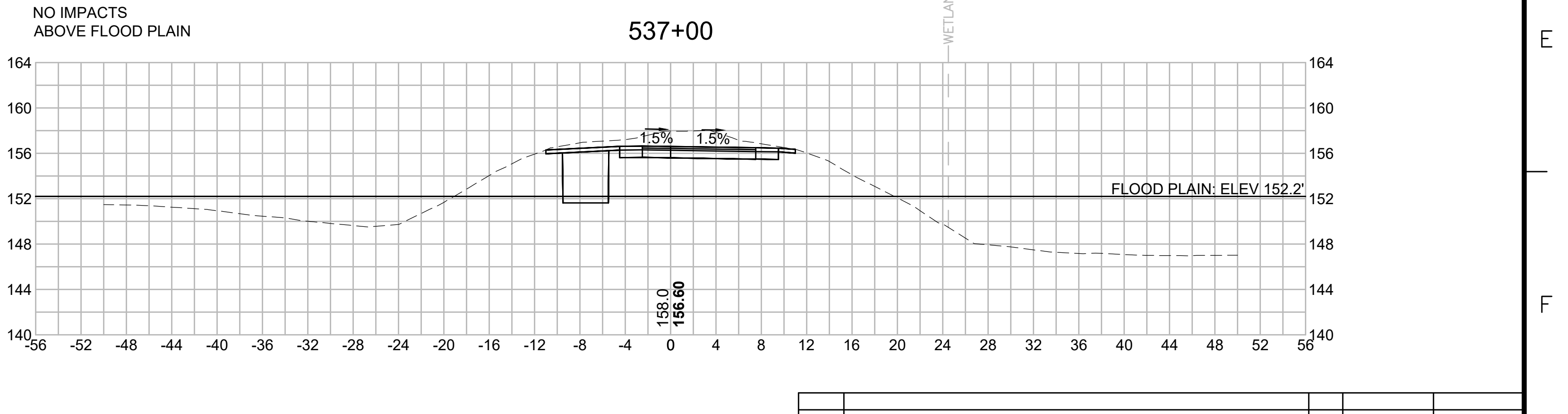
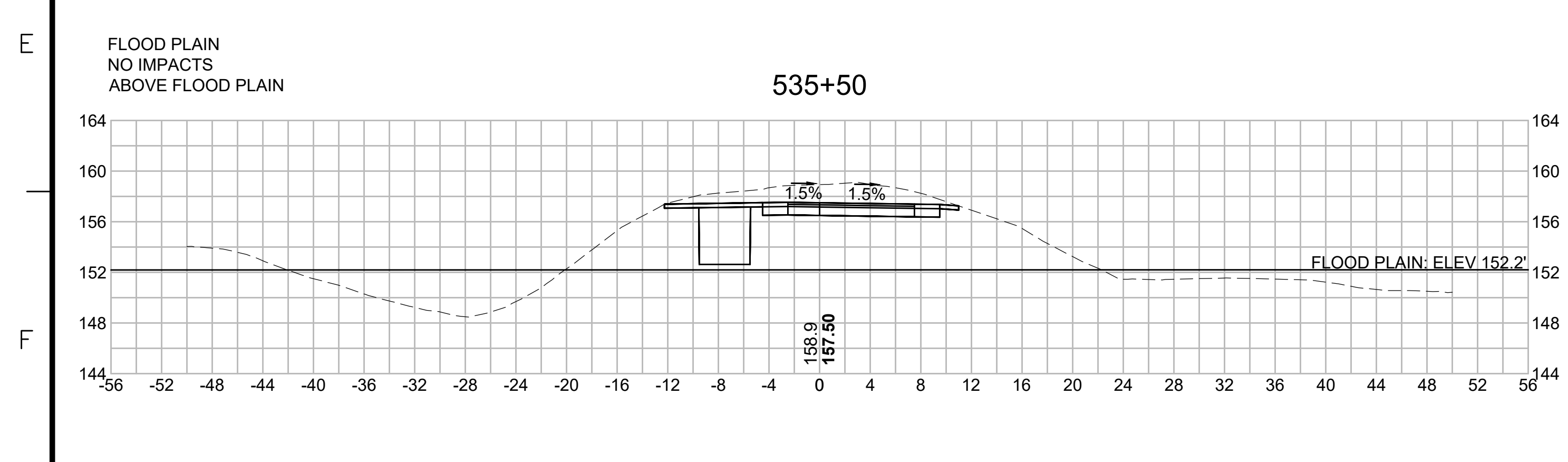
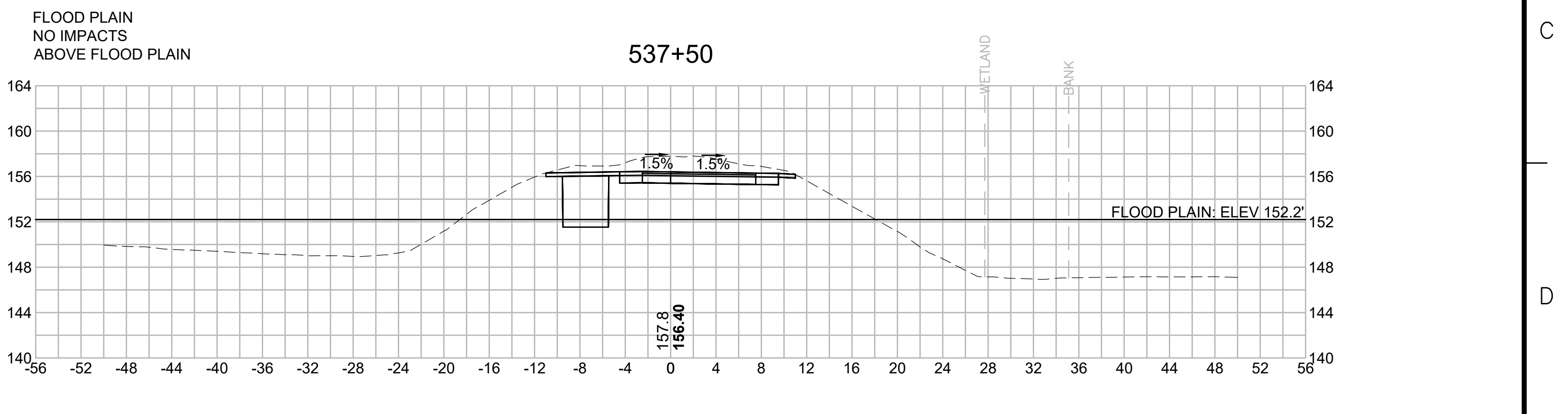
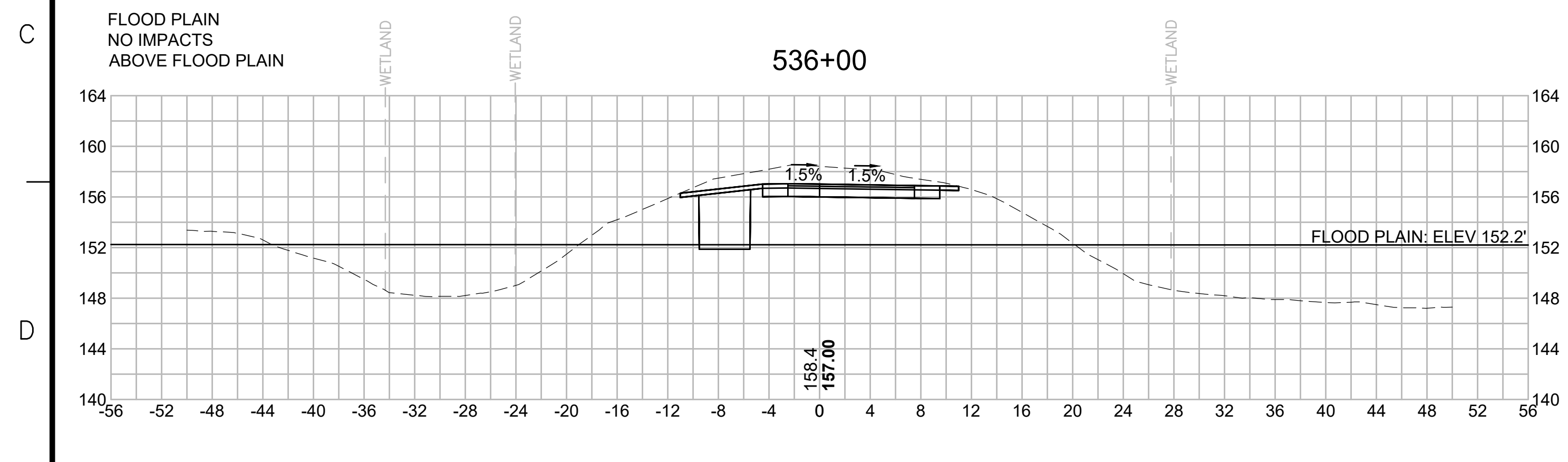
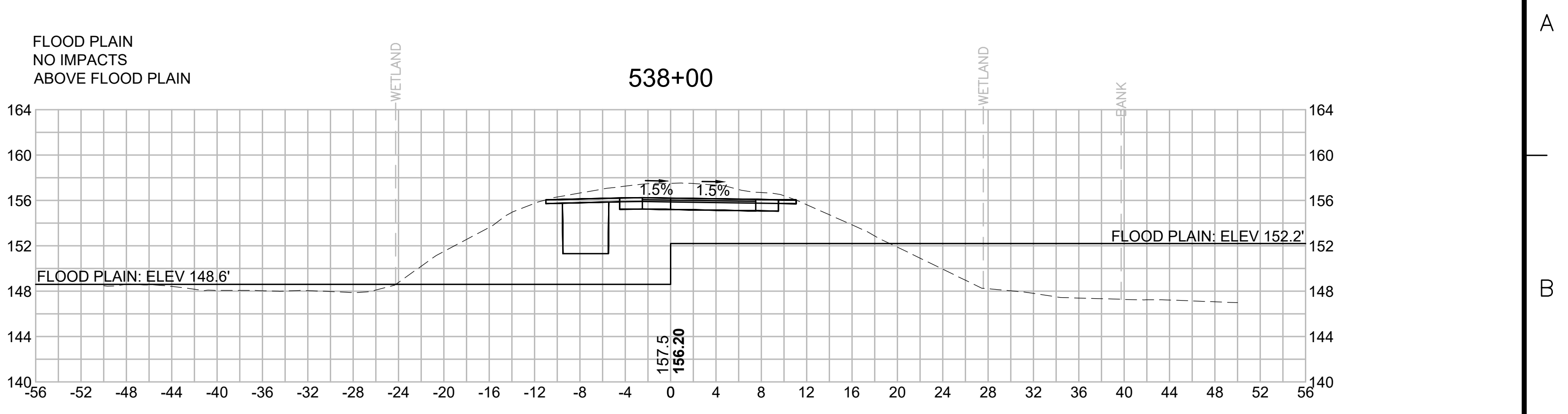
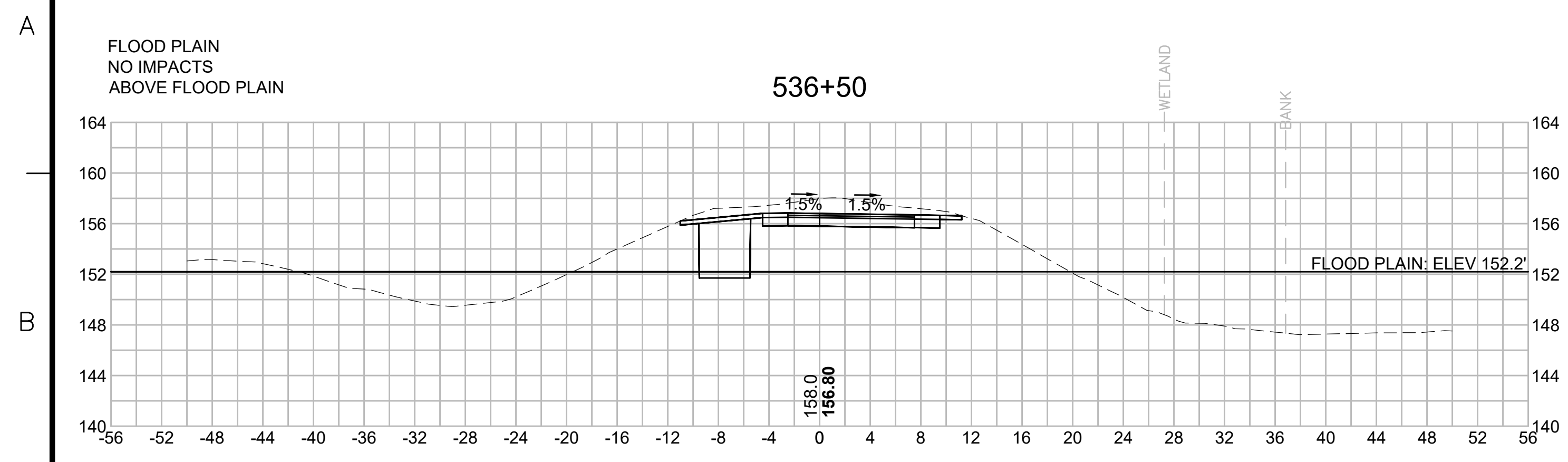


BLSF CROSSING STA 535 TO STA 542 - FEMA ZONE AE - DUDLEY BROOK
 FEMA ELEVATION: UPSTREAM PORTION (152.2) AND DOWNSTREAM PORTION (148.6)
 NO IMPACTS



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 297 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

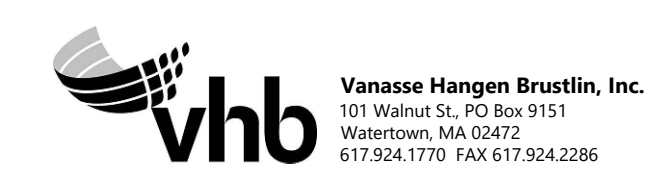
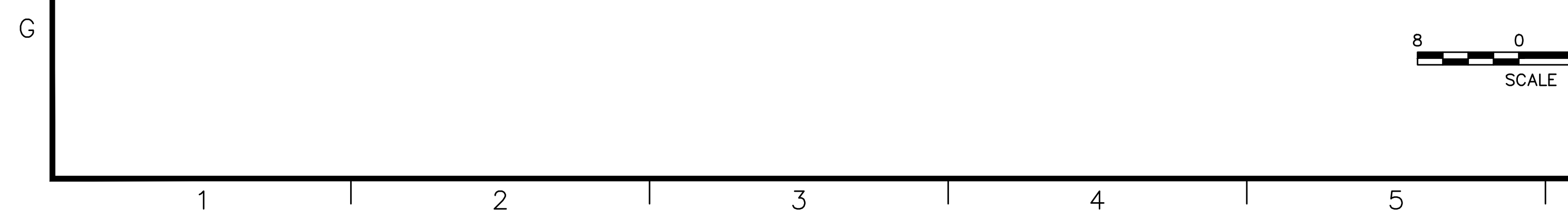
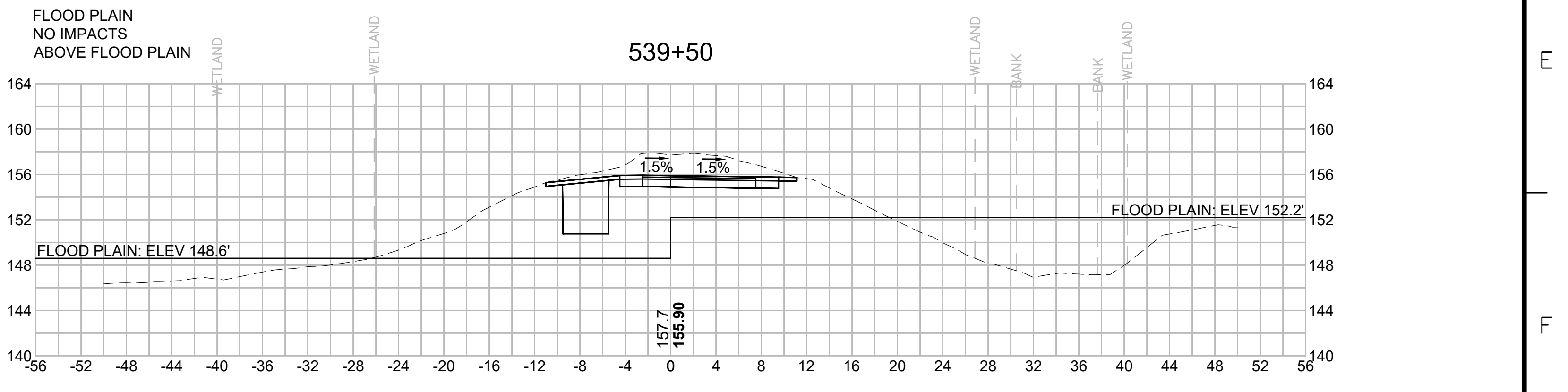
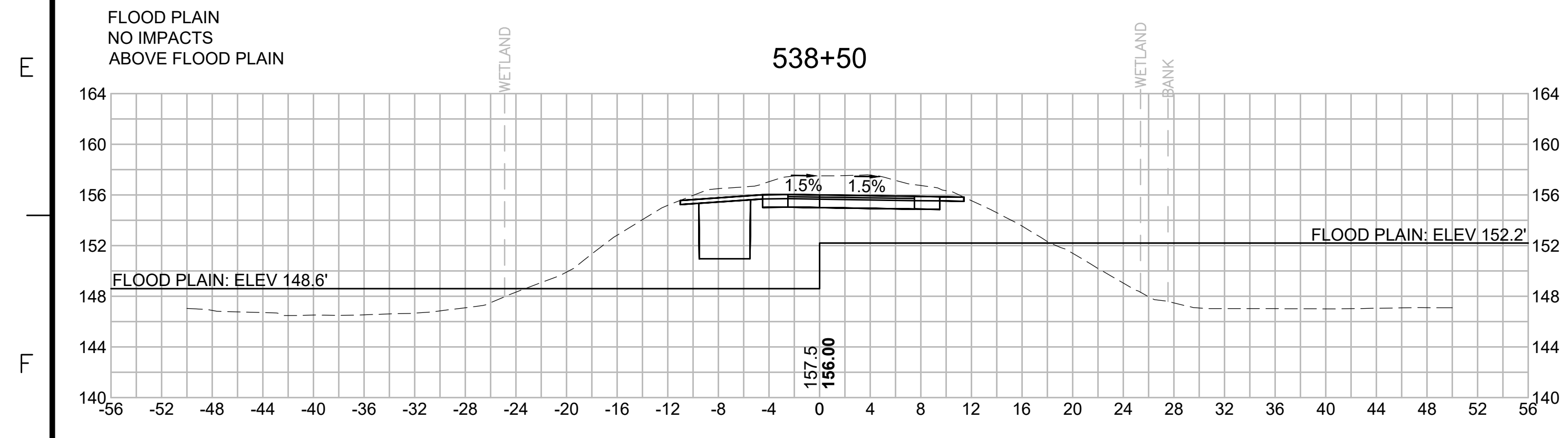
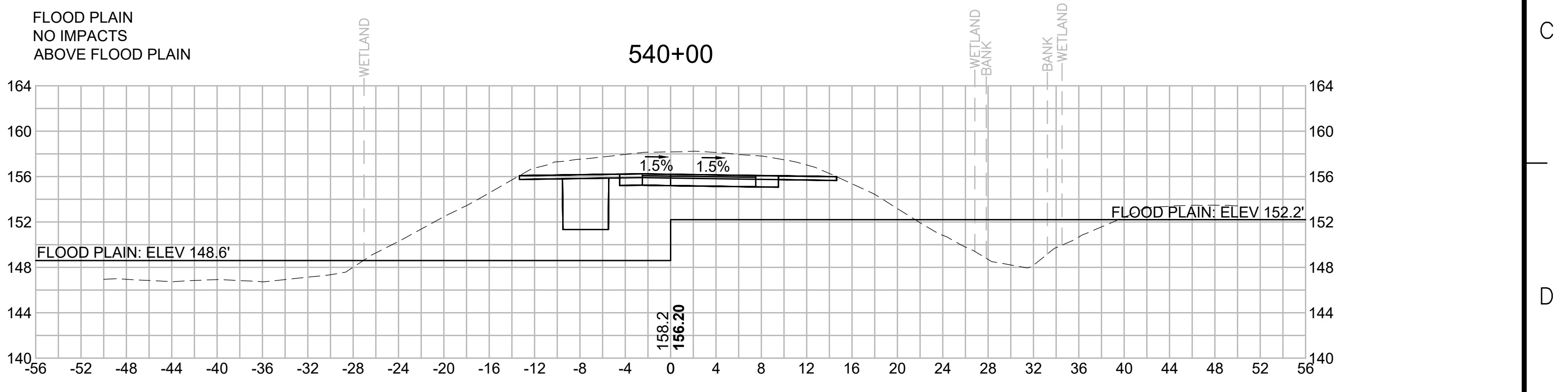
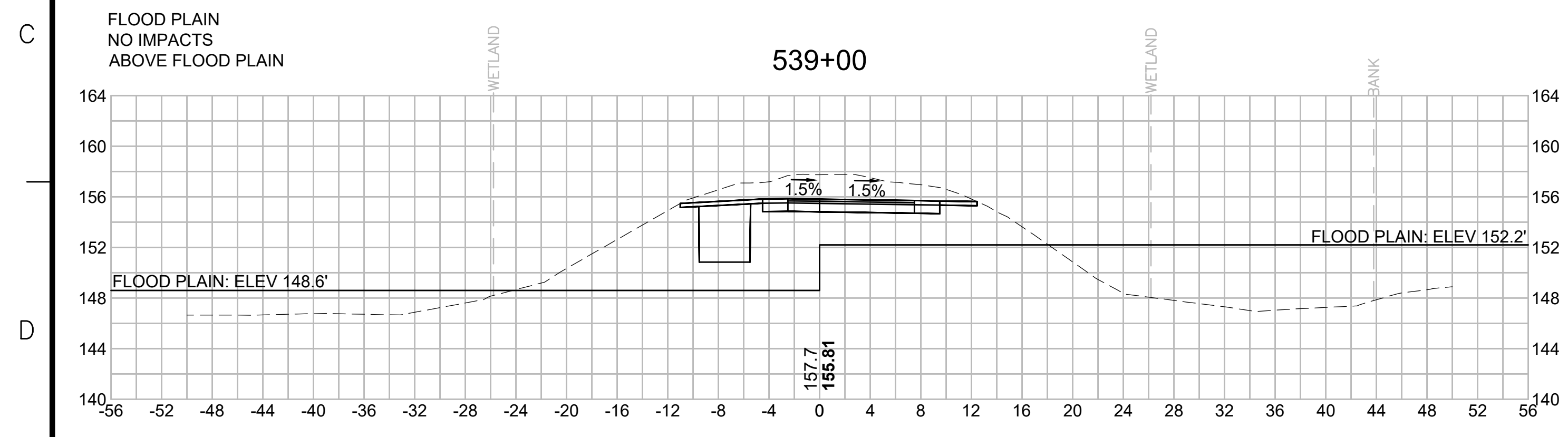
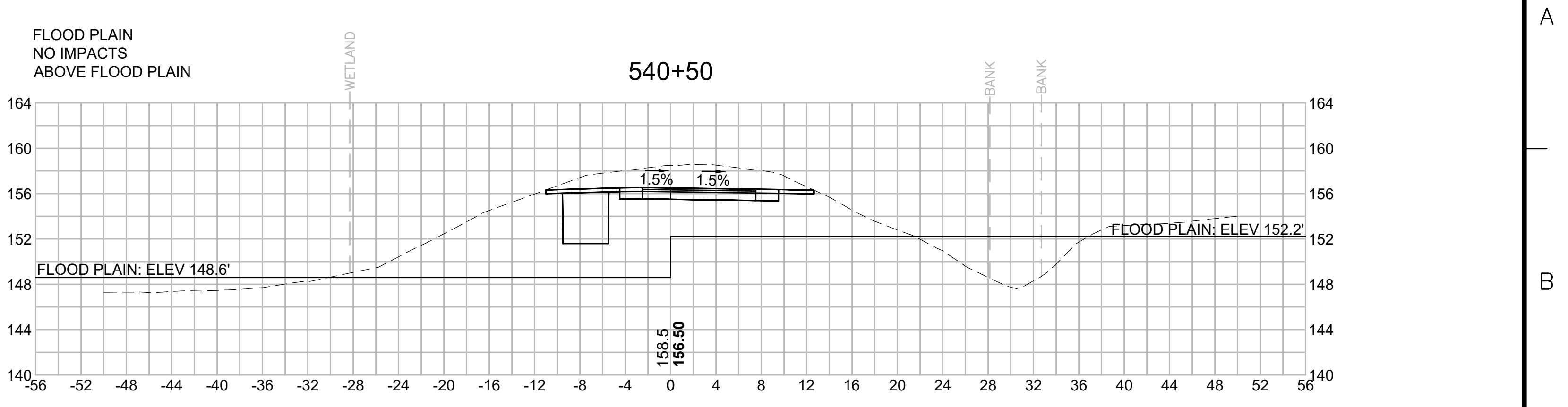
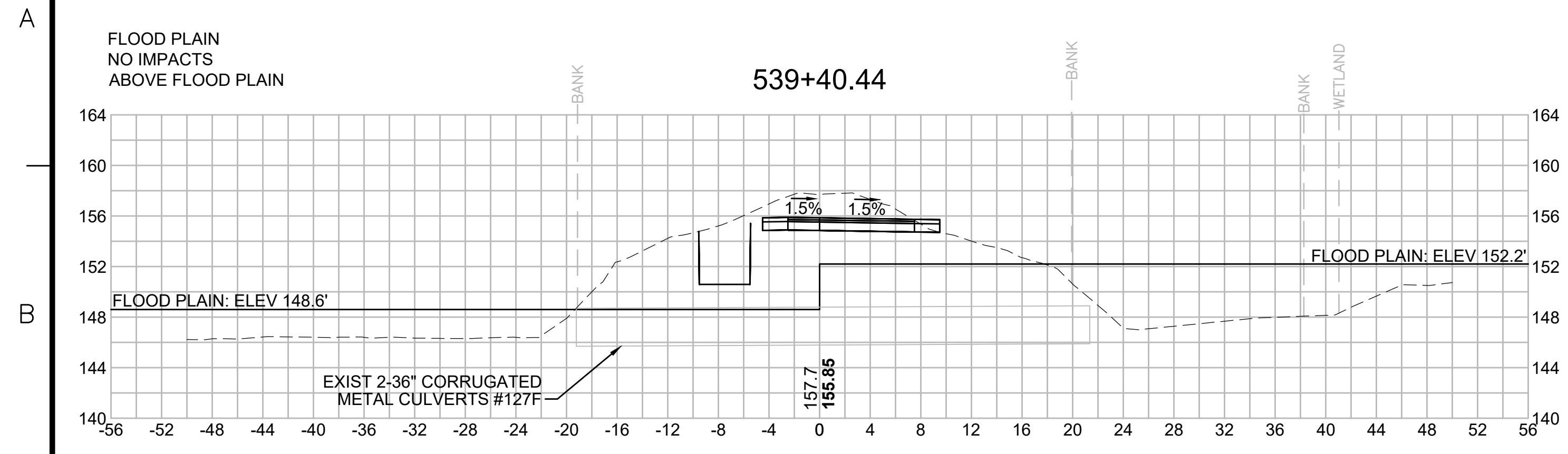
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 298 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C H'K D. SK	A P P R. MES
DRAWING NO.		REV.		

1 2 3 4 5 6 7 8 9 10 11

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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 299 OF 348

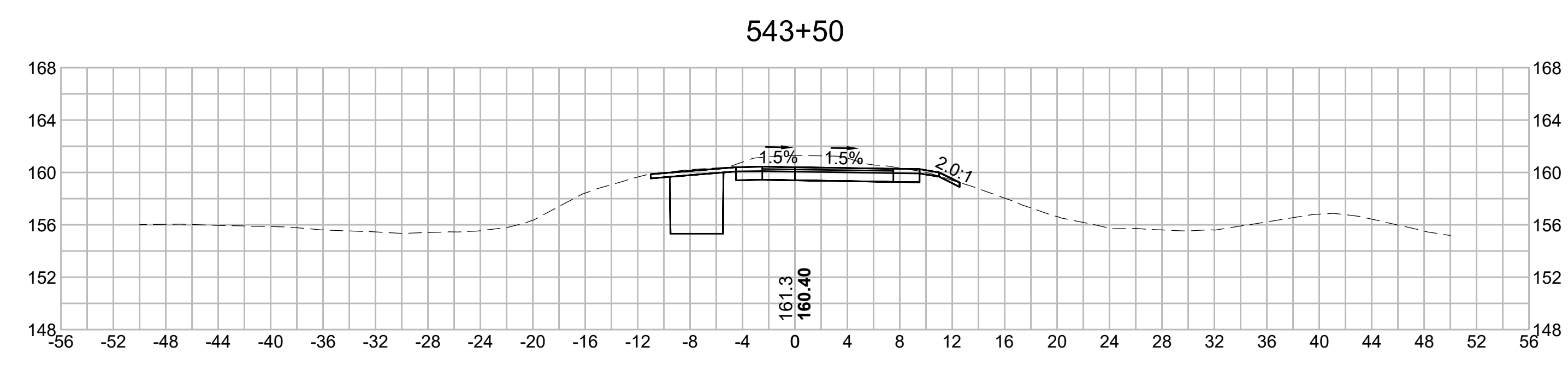
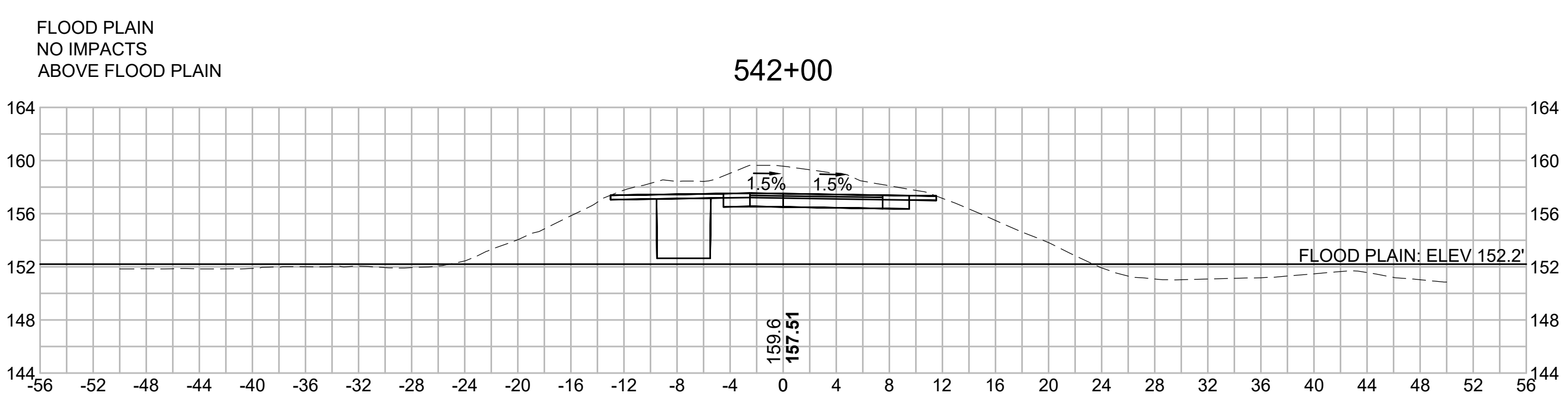
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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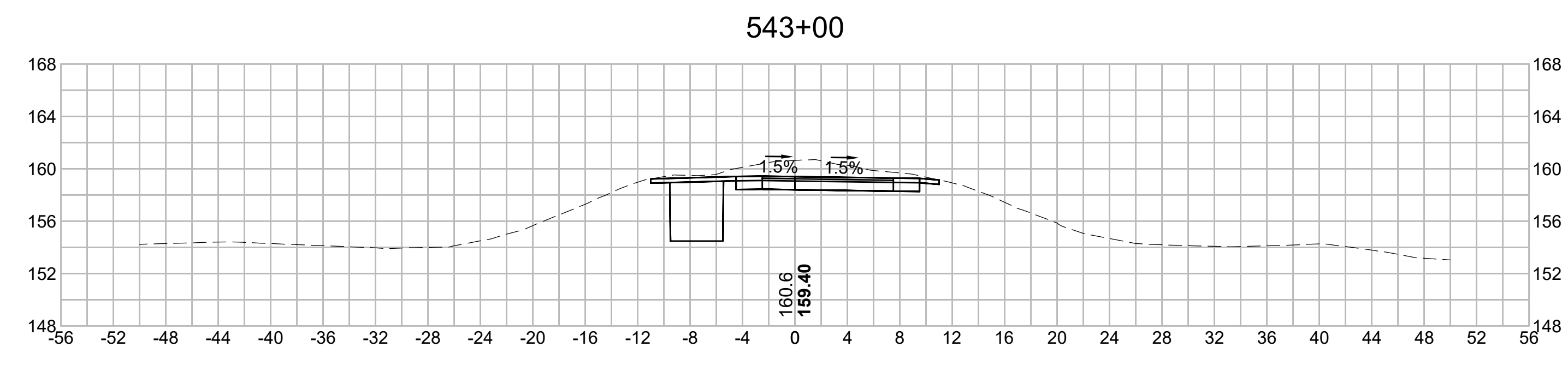
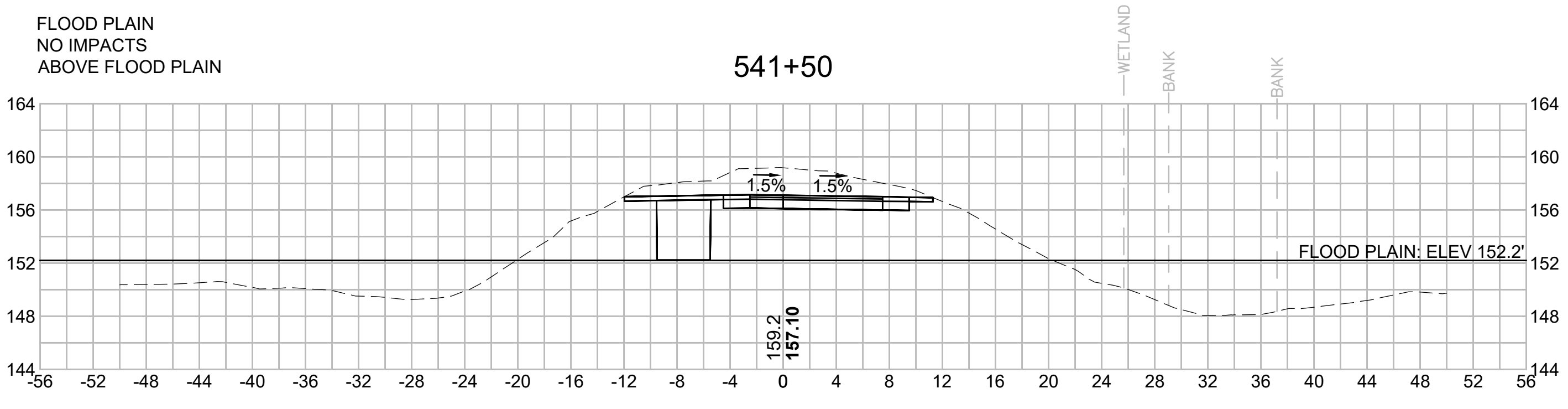
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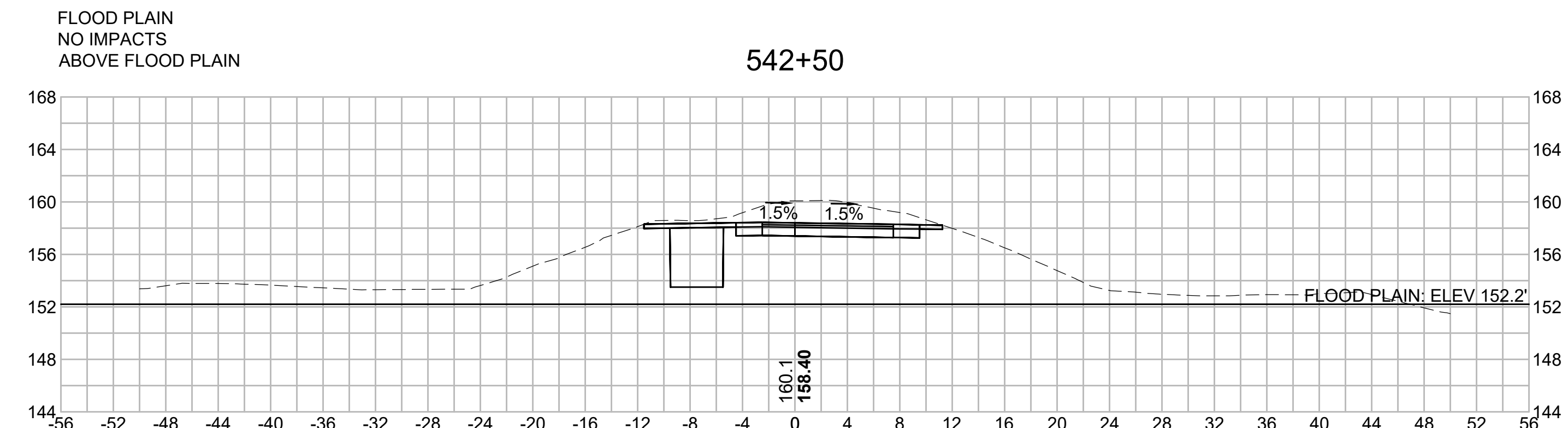
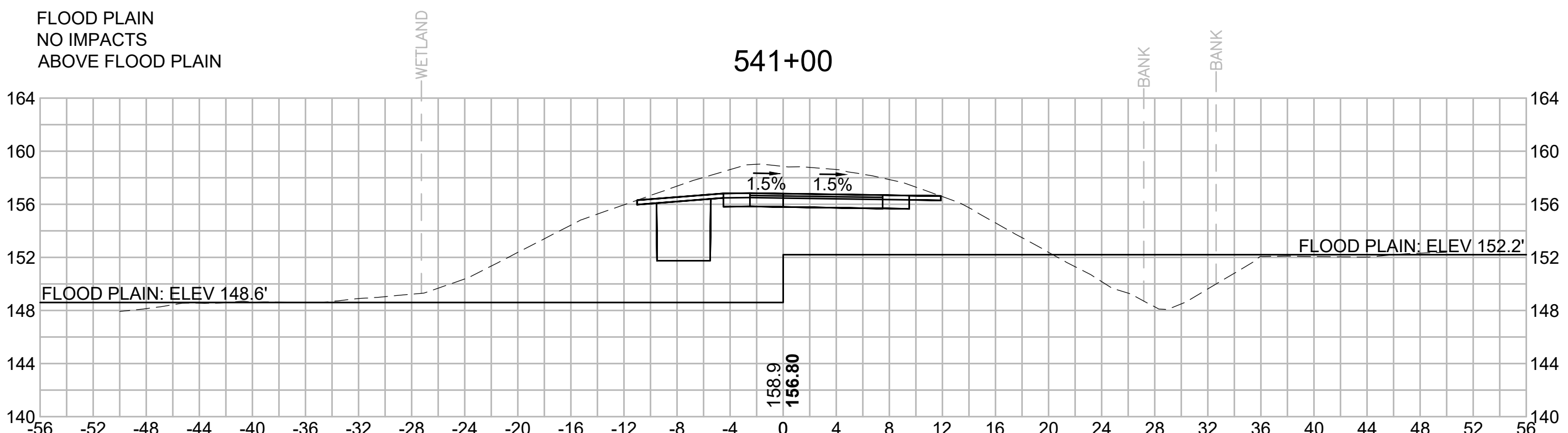
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 300 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C H'K D. SK	A P P R. MES
DRAWING NO.	REV.			

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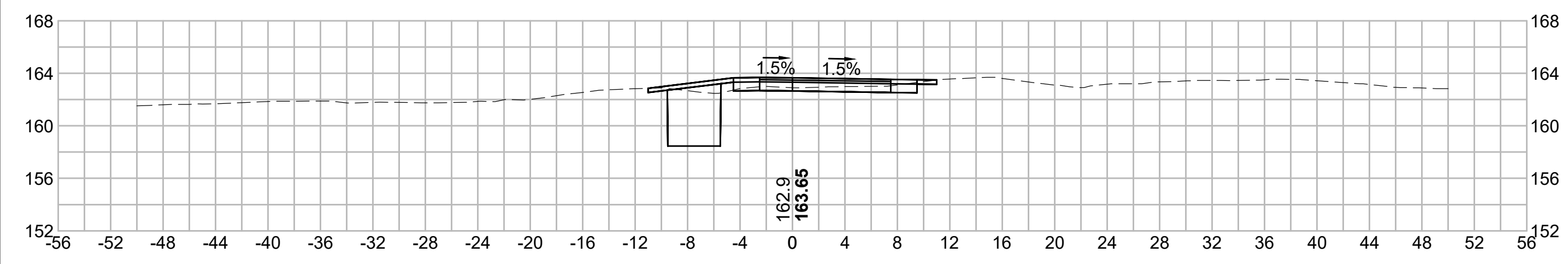
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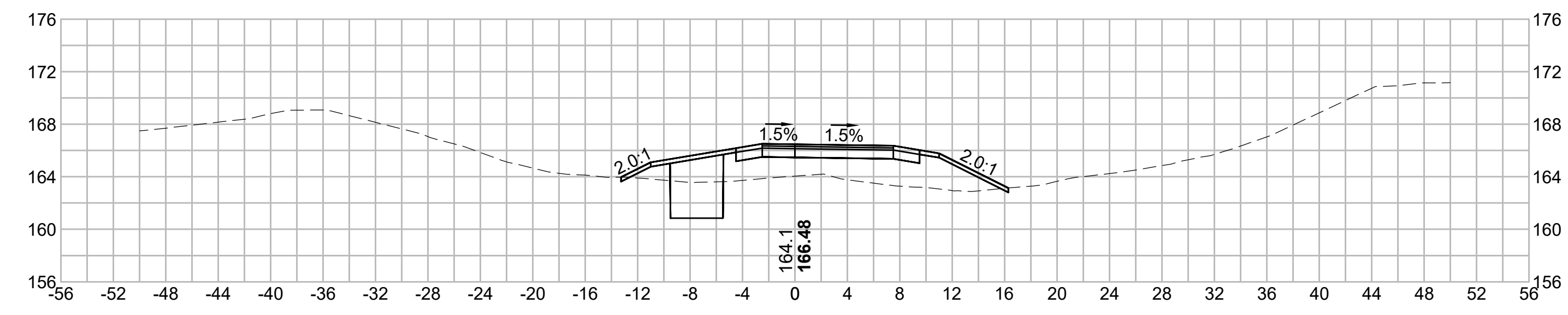
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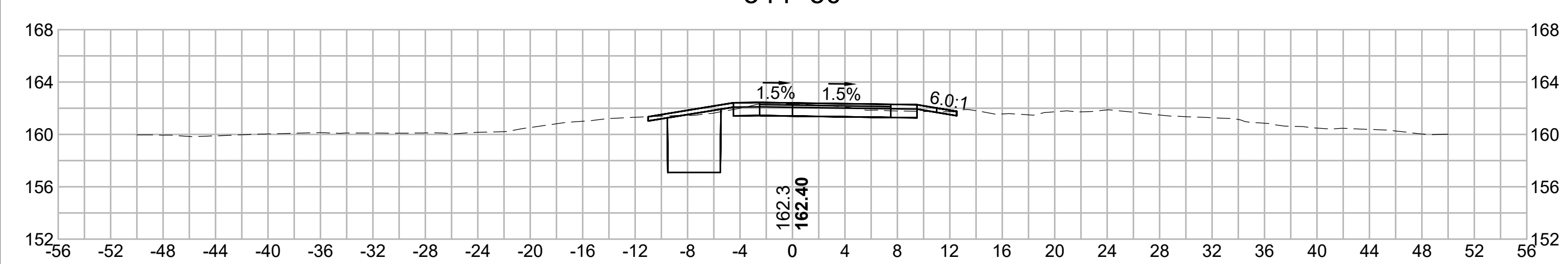
545+00



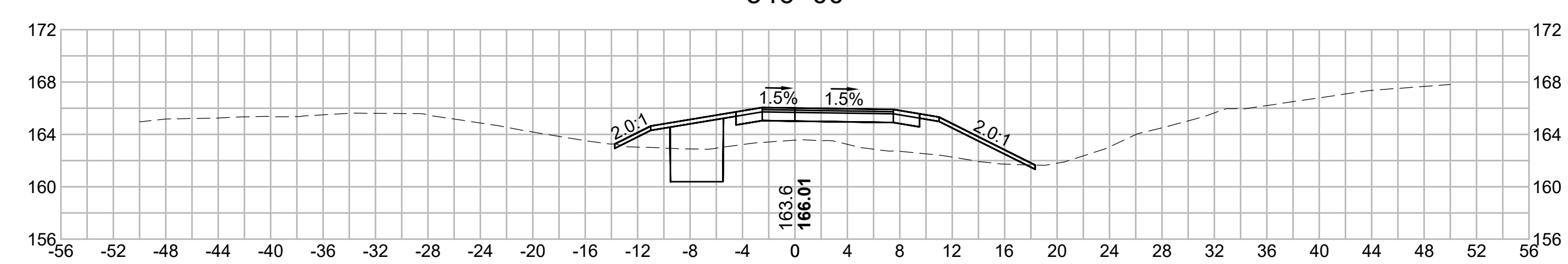
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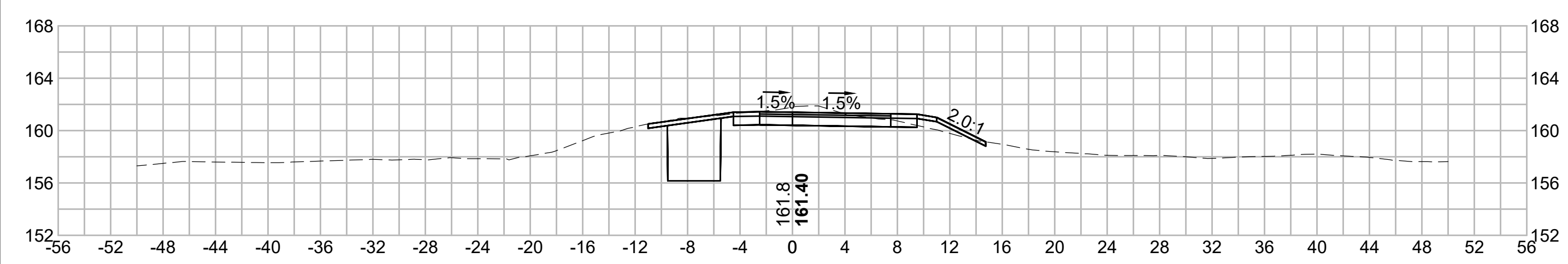
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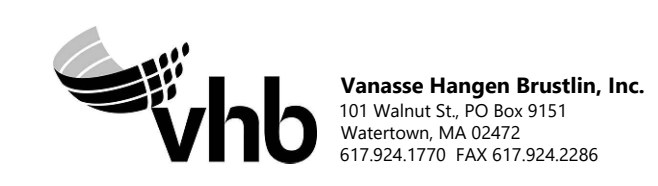
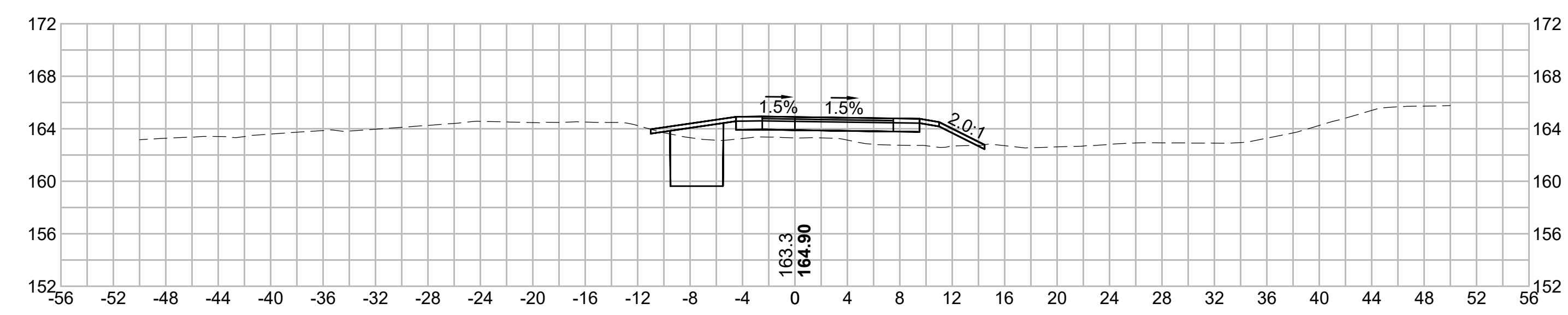
546+00



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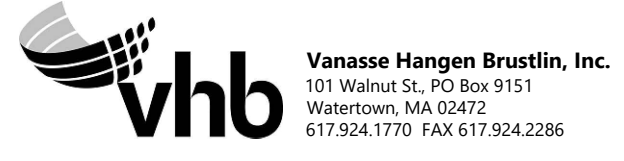
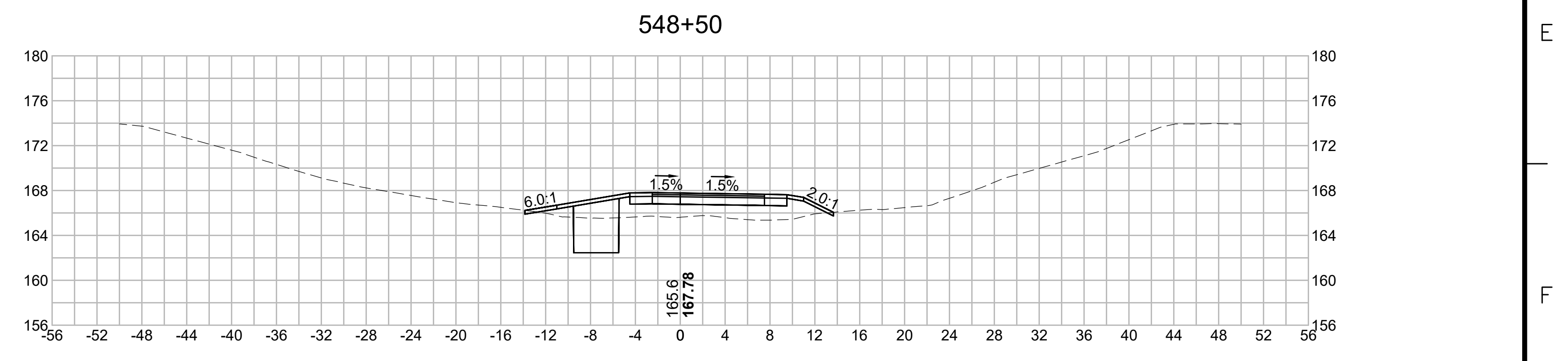
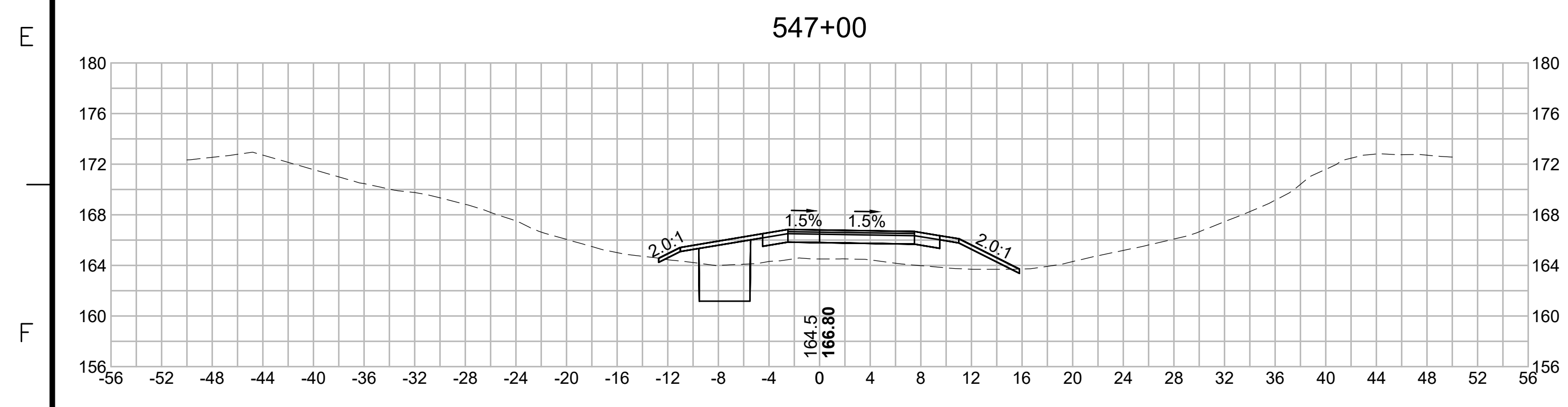
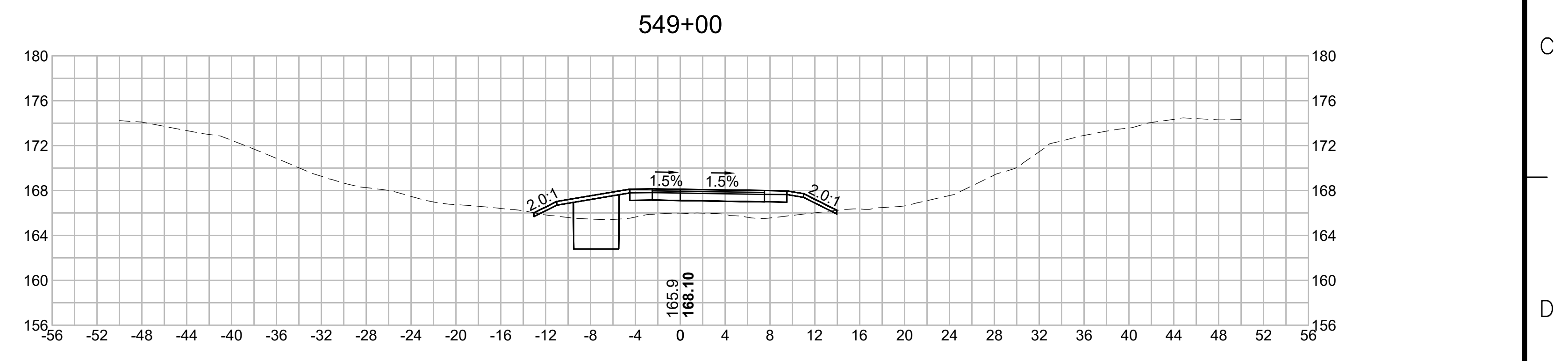
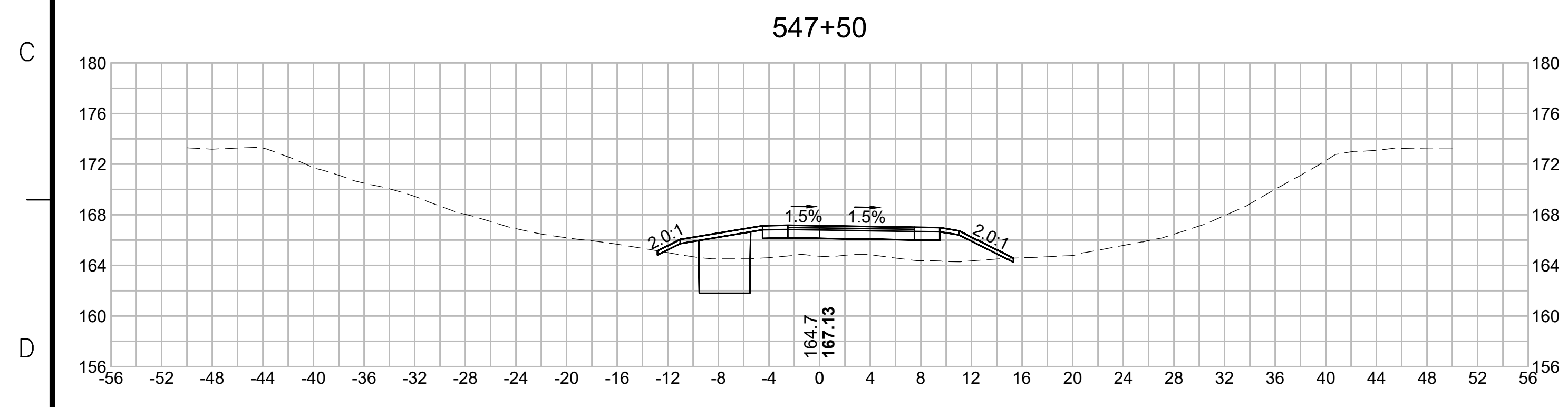
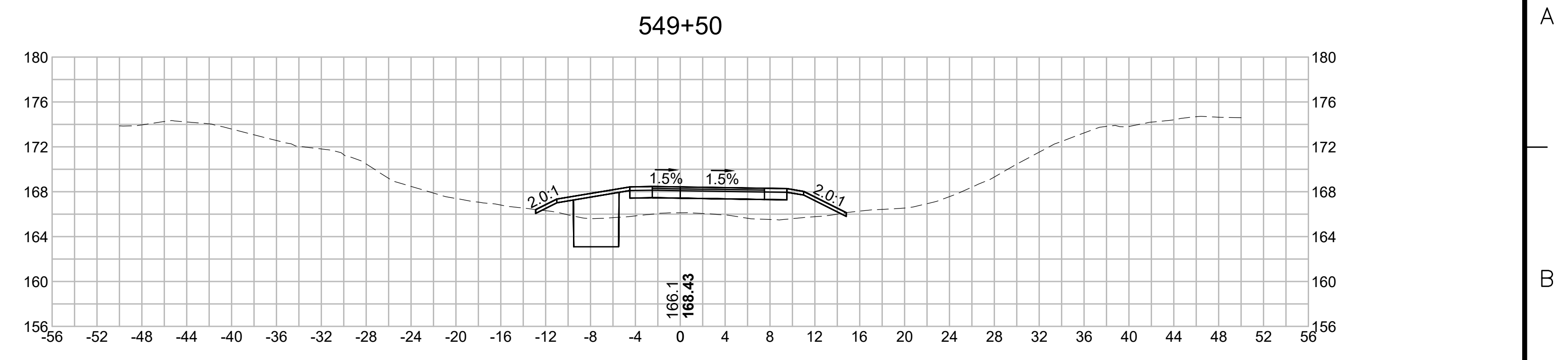
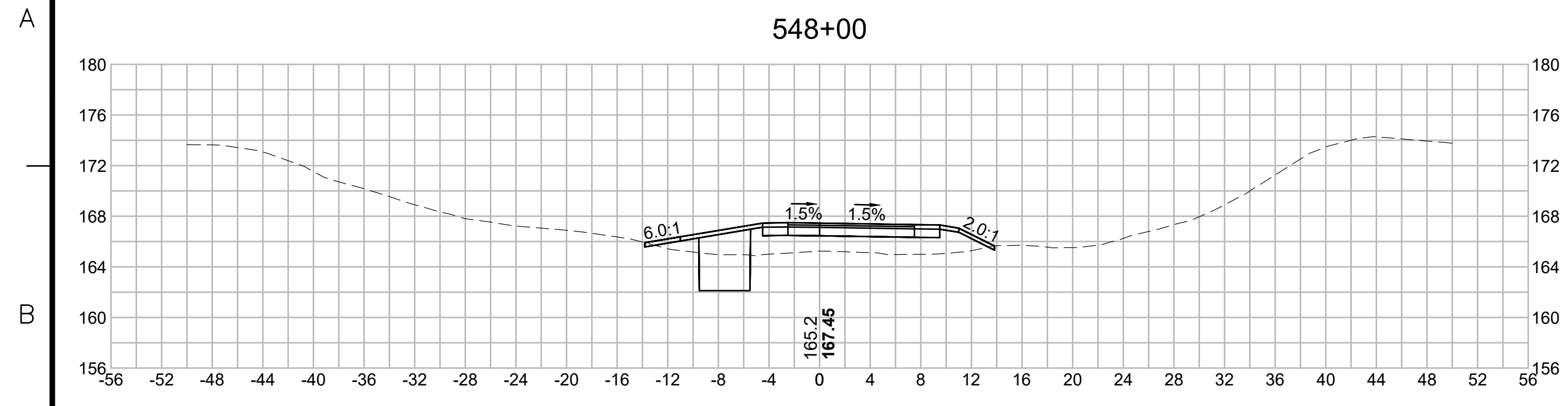


Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.294.1770 FAX 617.924.2286

N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 301 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 302 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

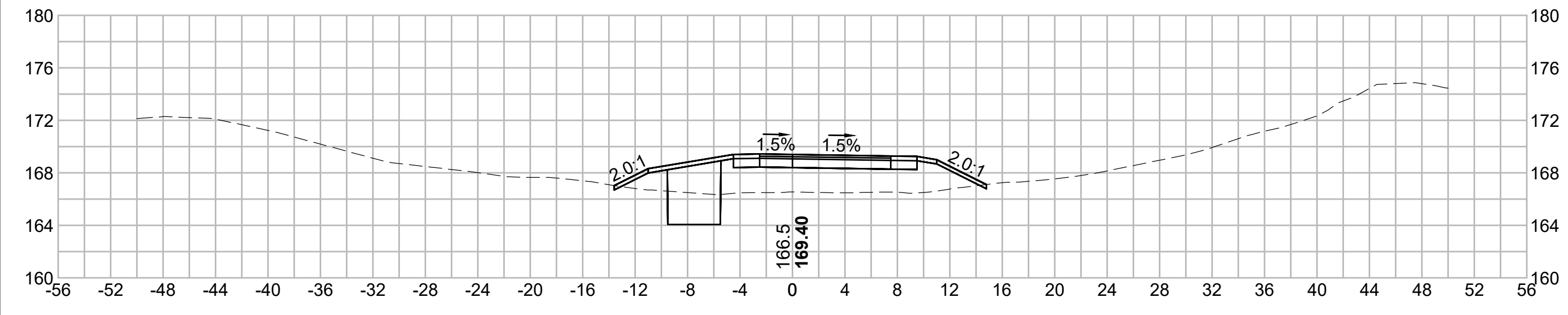
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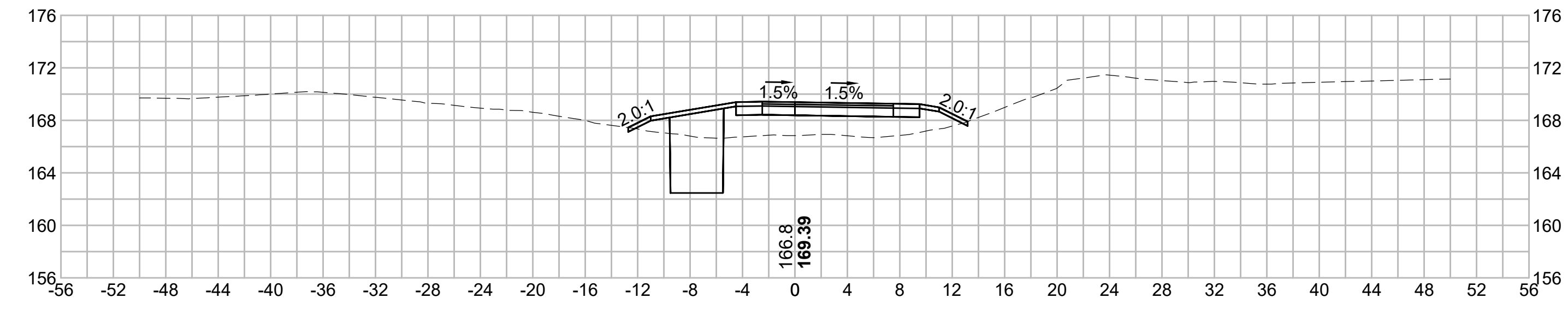
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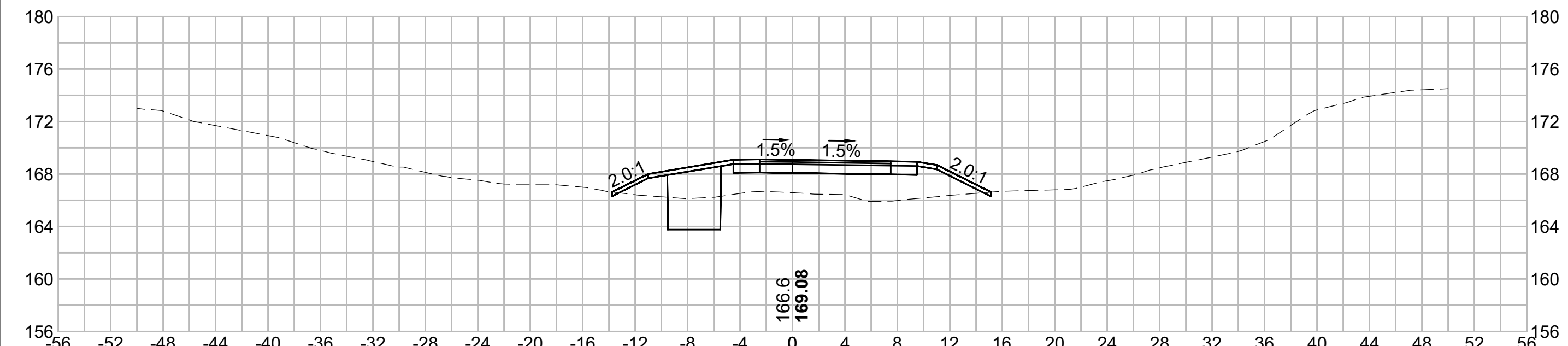
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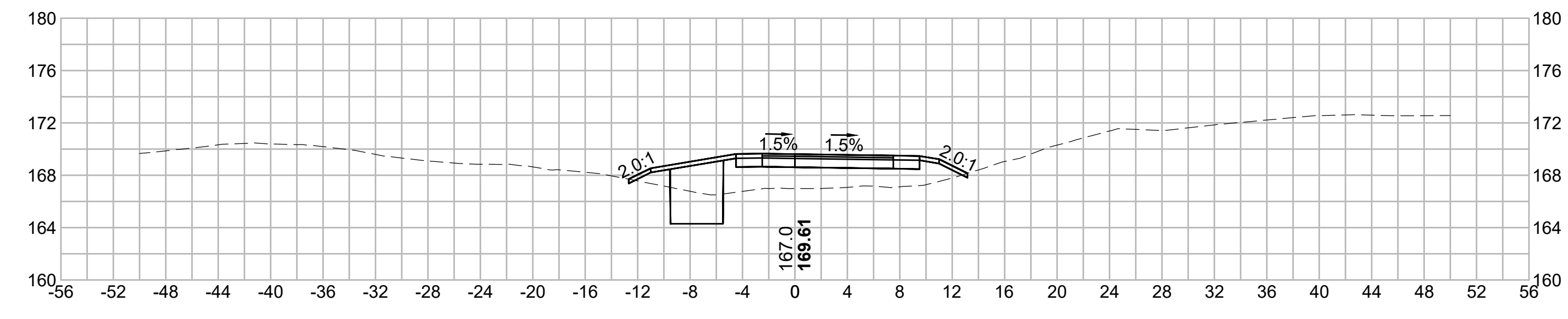
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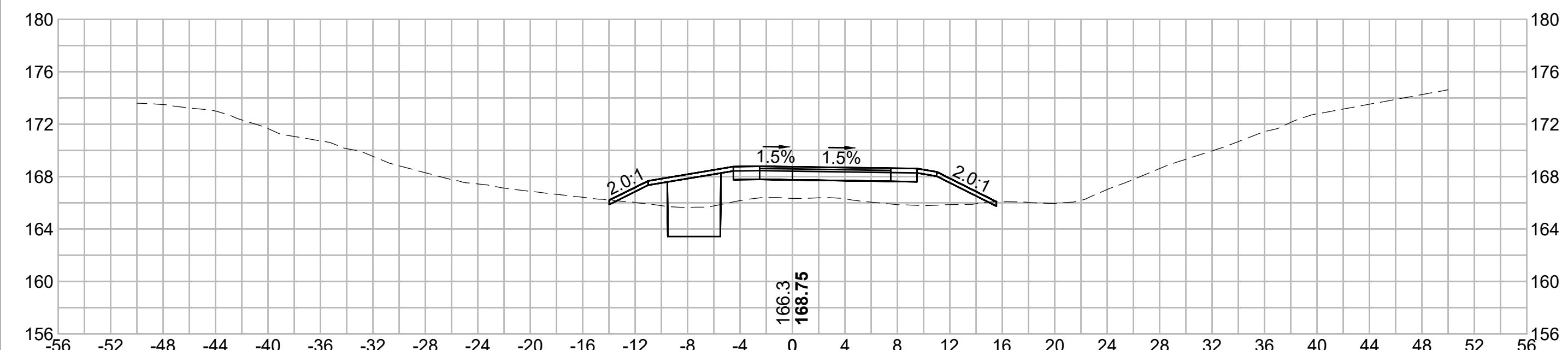
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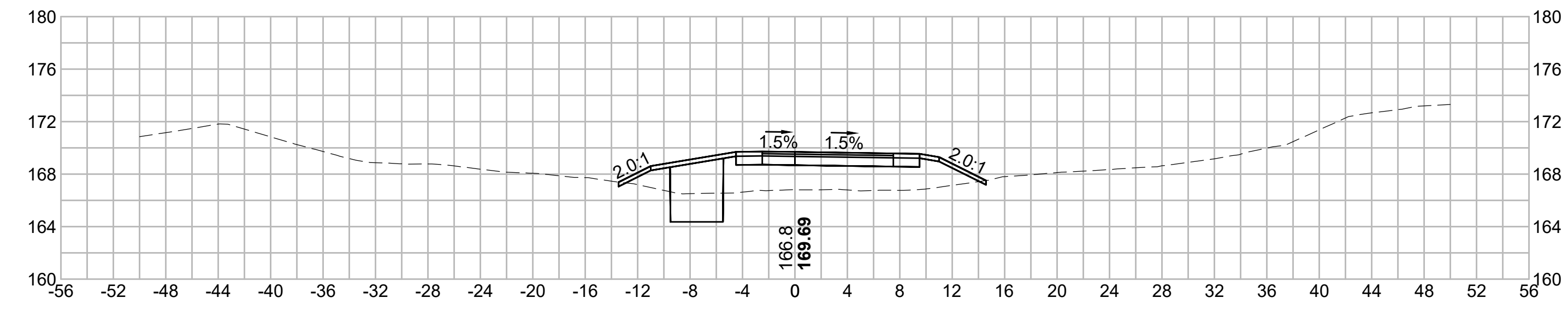
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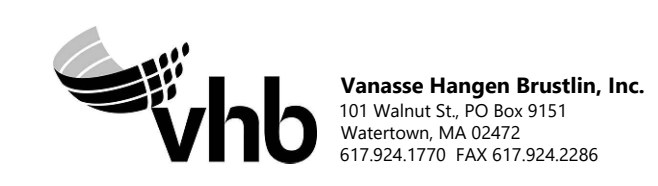
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 303 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C H'K D. SK	A P P R. MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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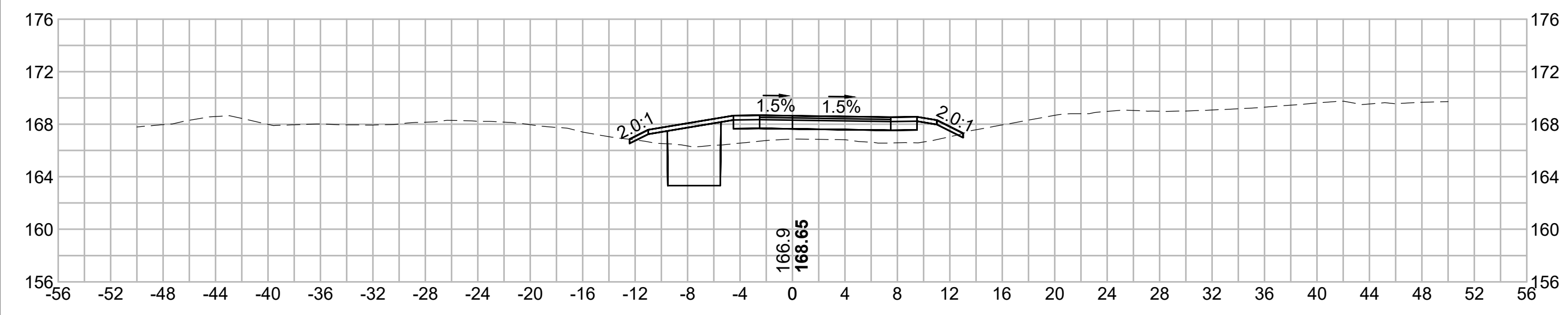
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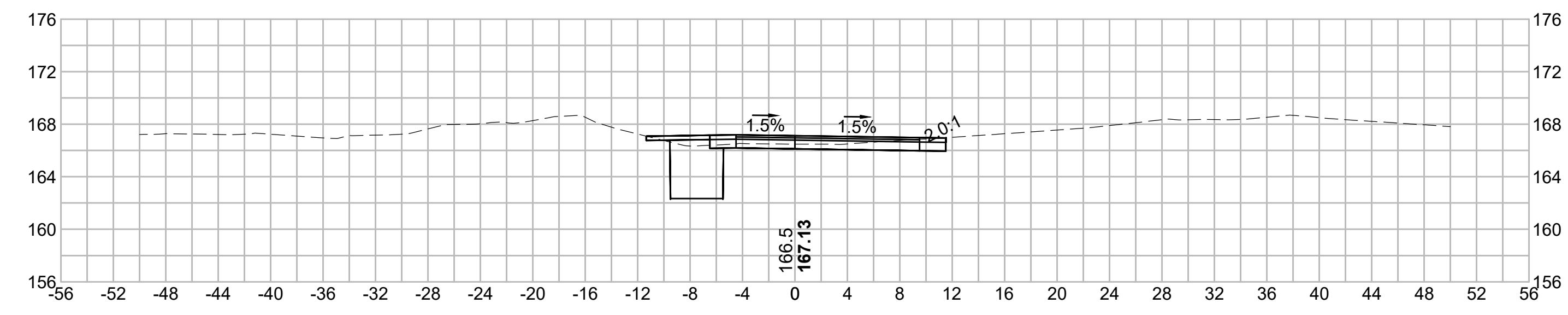
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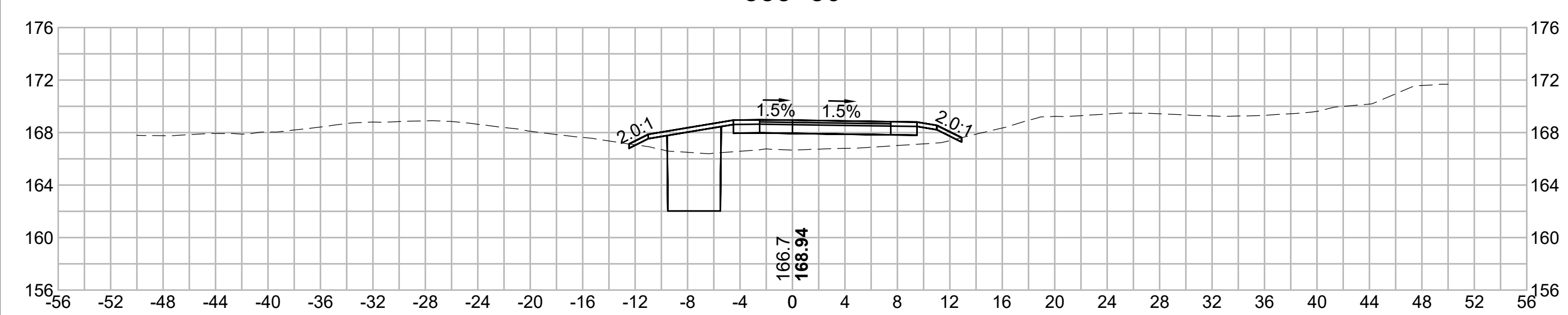
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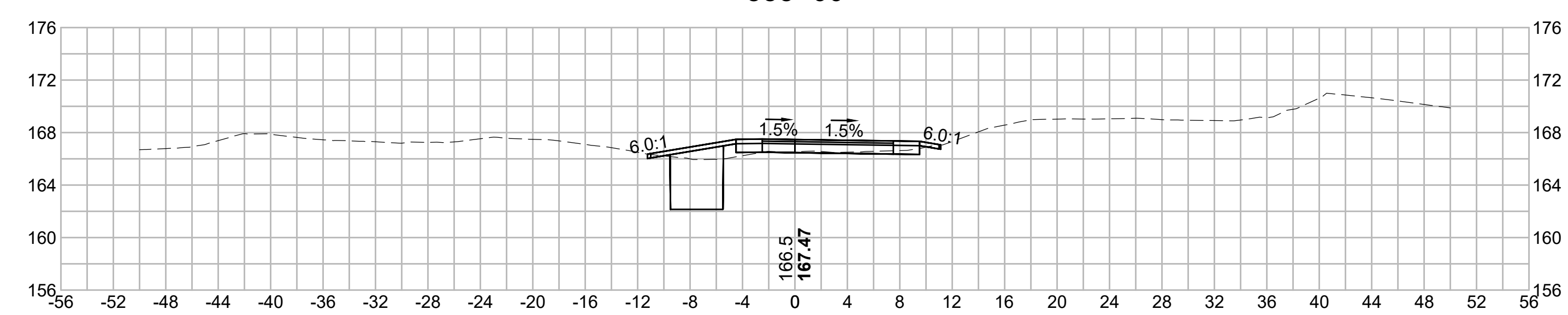
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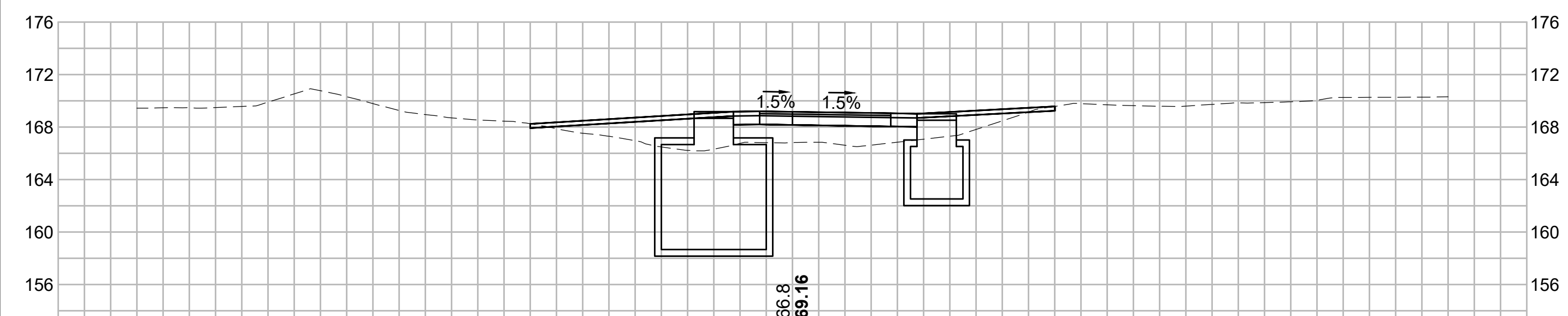
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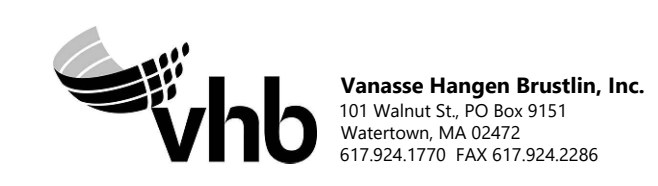
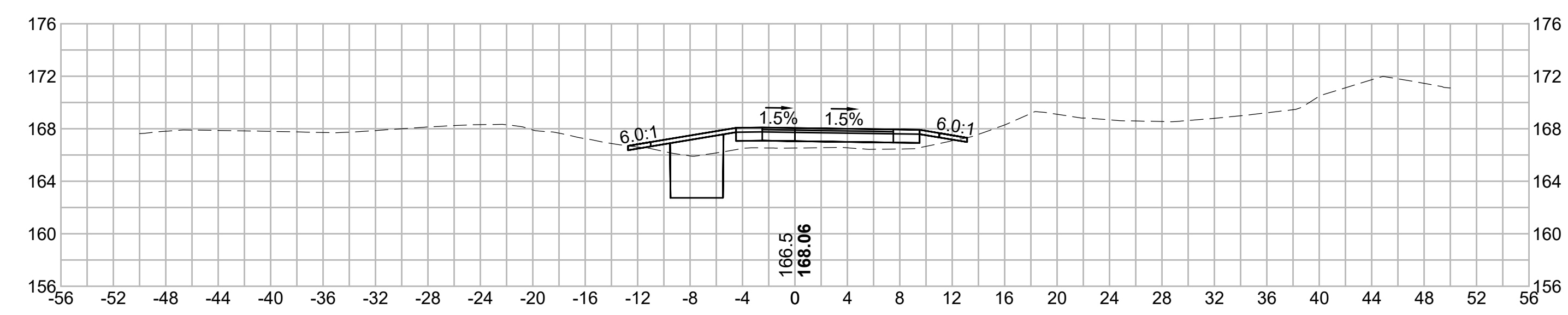
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 304 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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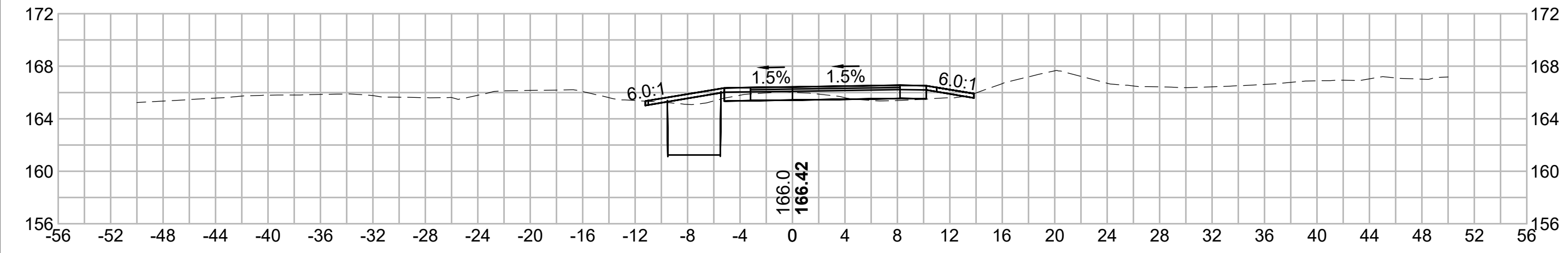
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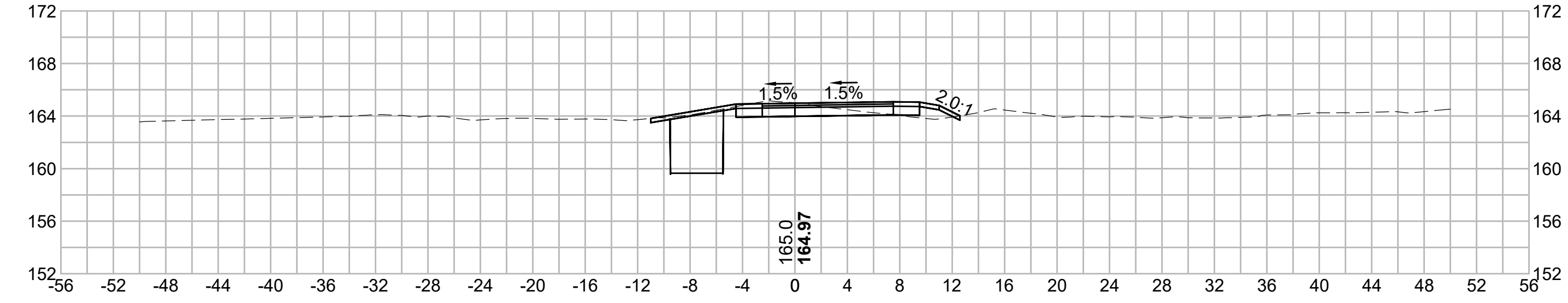
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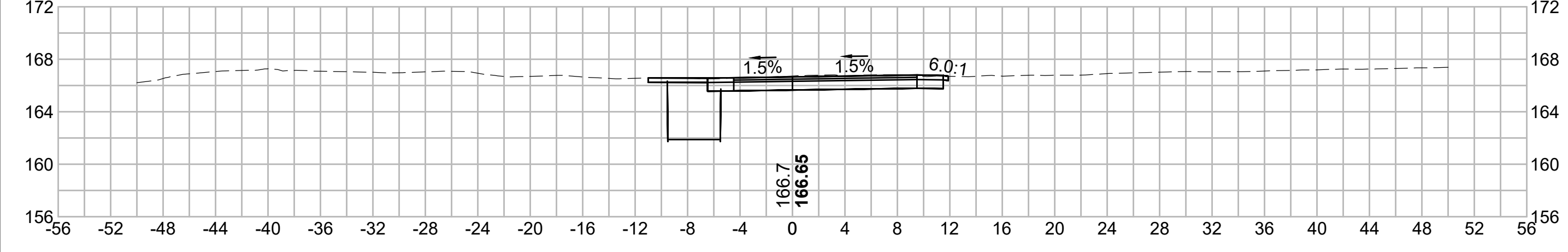
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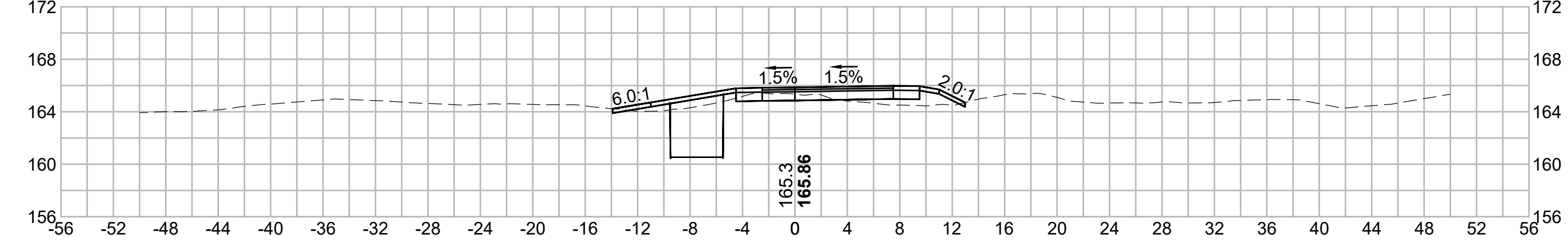
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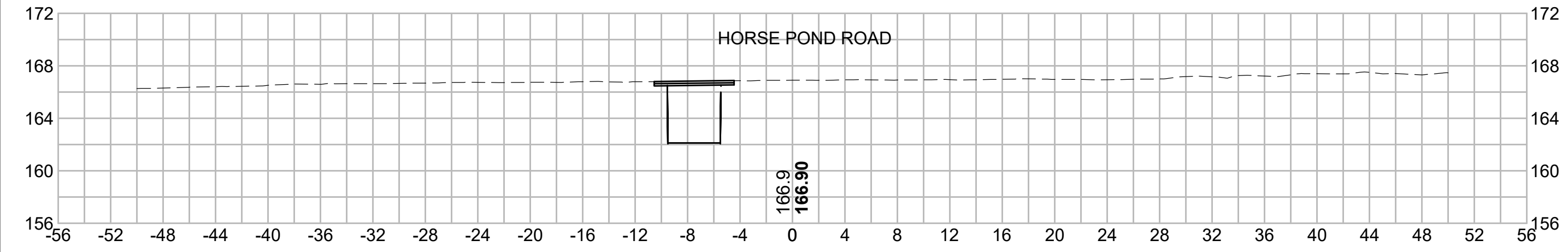


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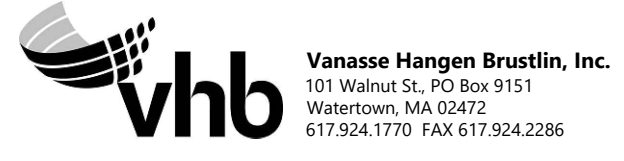
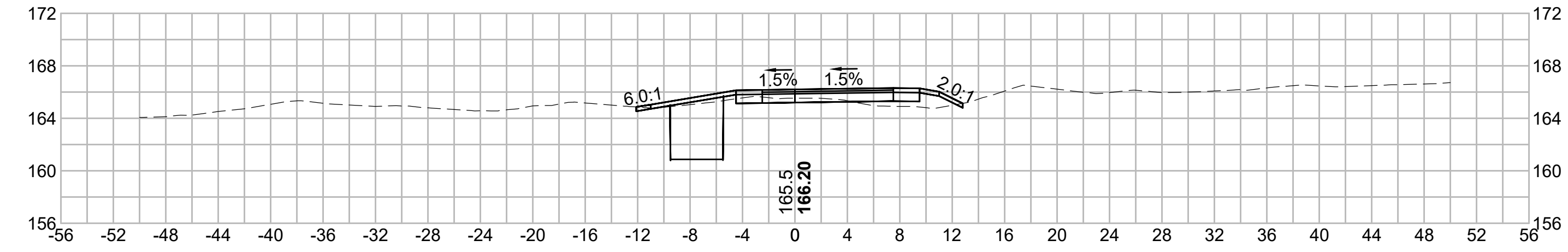


555+80.50

HORSE POND ROAD



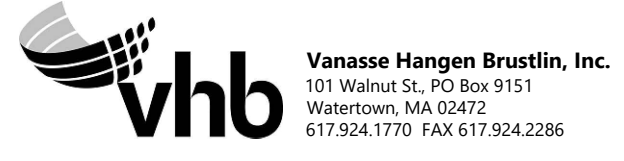
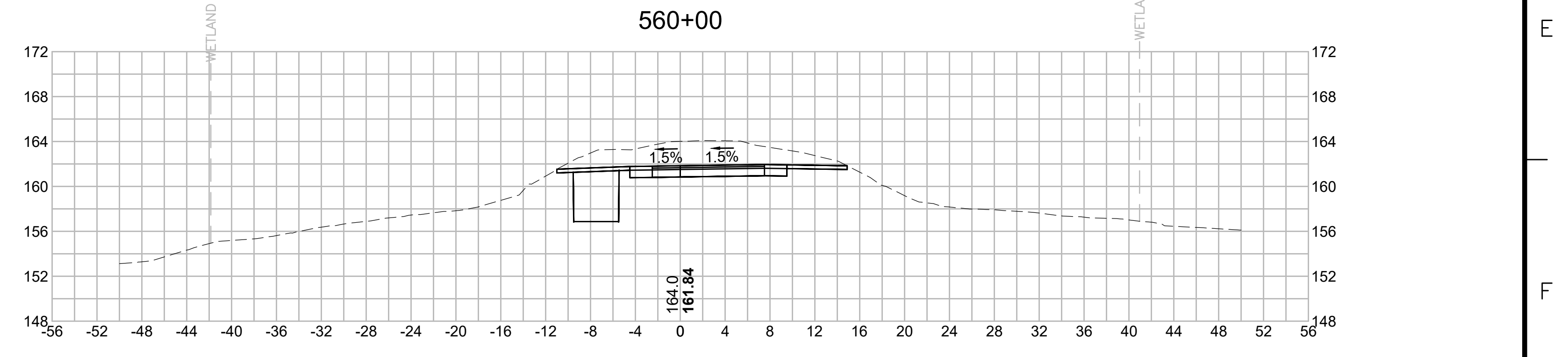
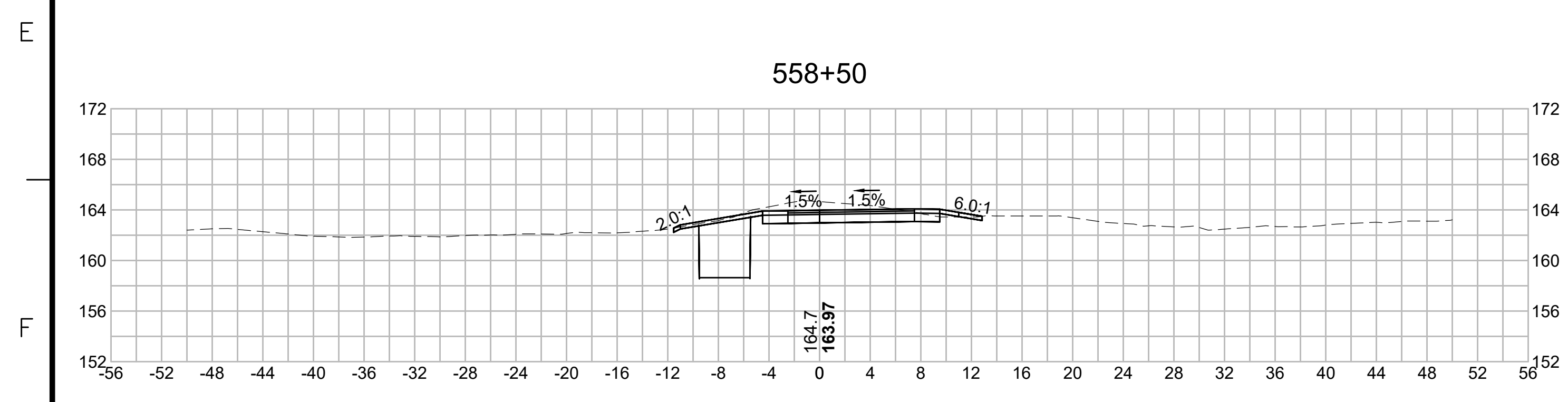
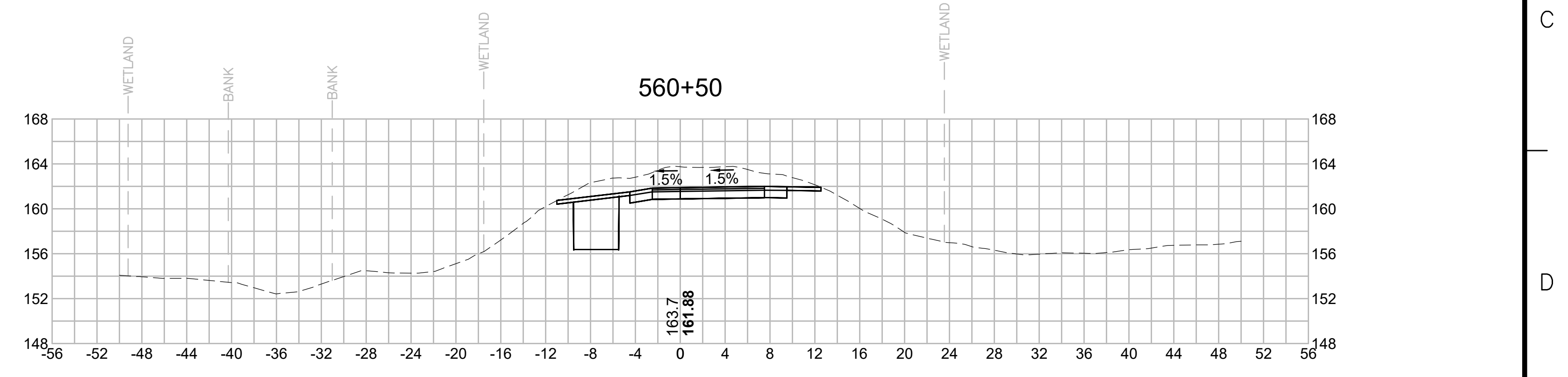
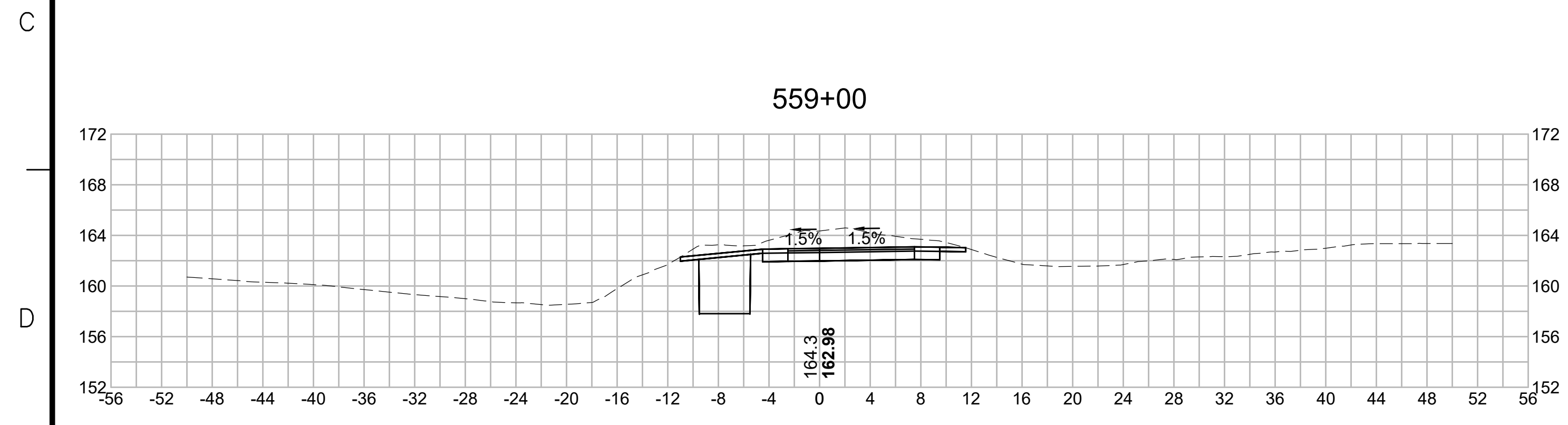
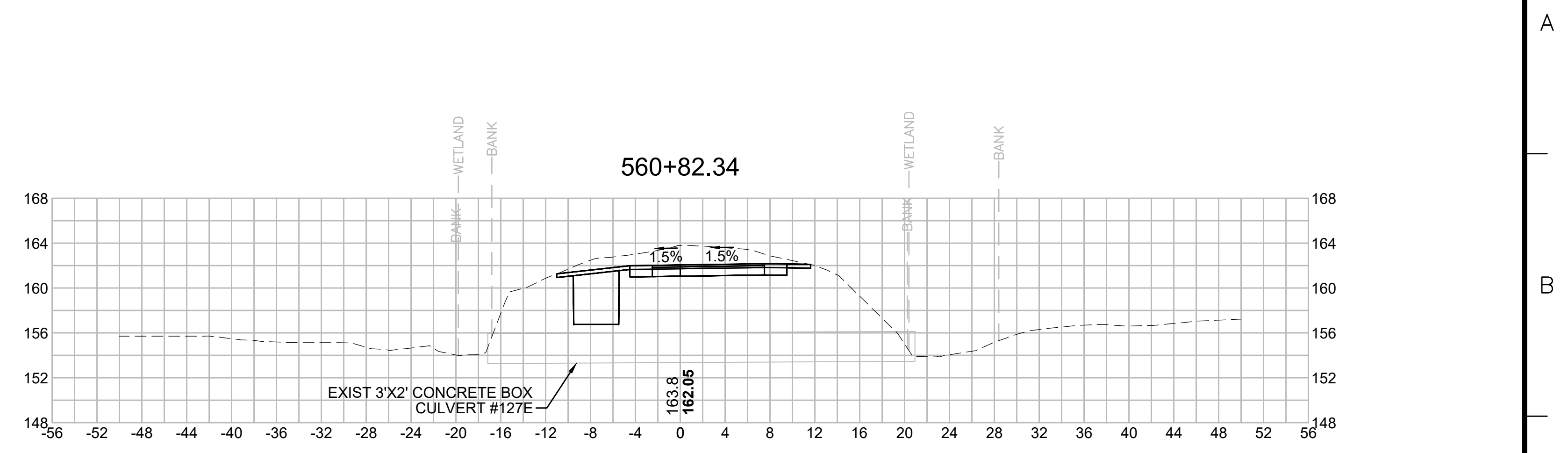
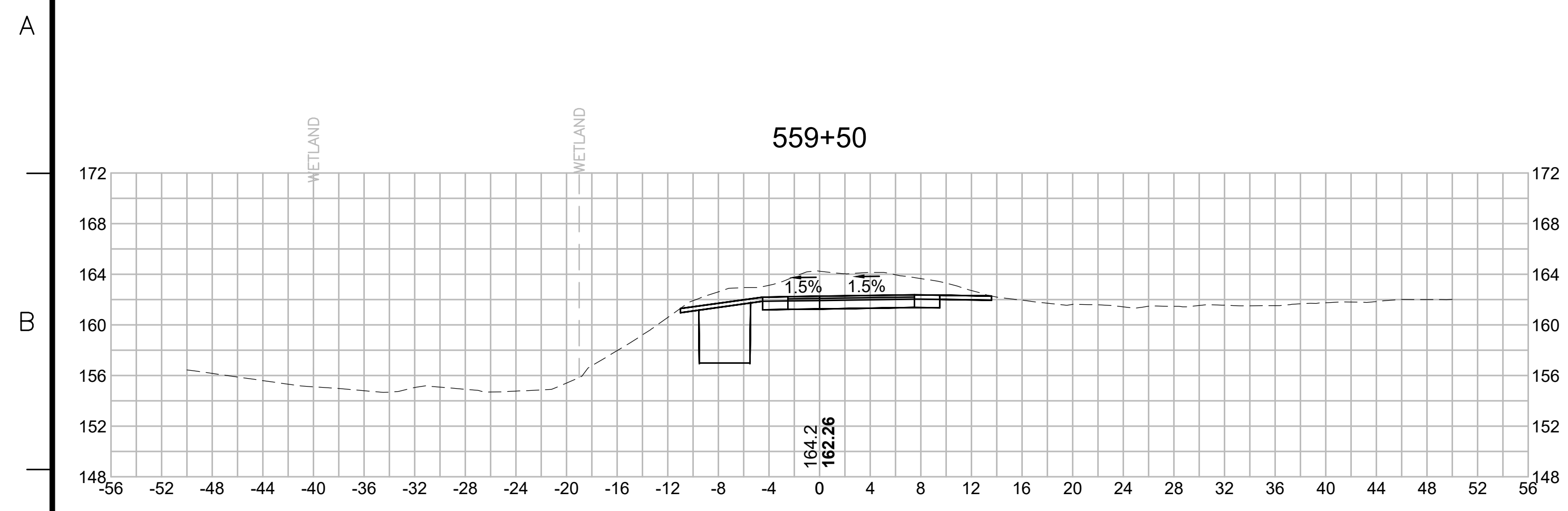
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NO.		DESCRIPTION		BY	DATE	APPR.
		REVISION				
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CROSS SECTIONS						
PLAN 305 OF 348						
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.

1 2 3 4 5 6 7 8 9 10 11

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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 306 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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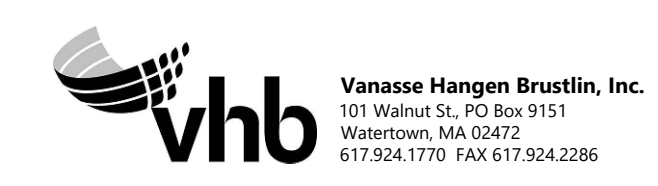
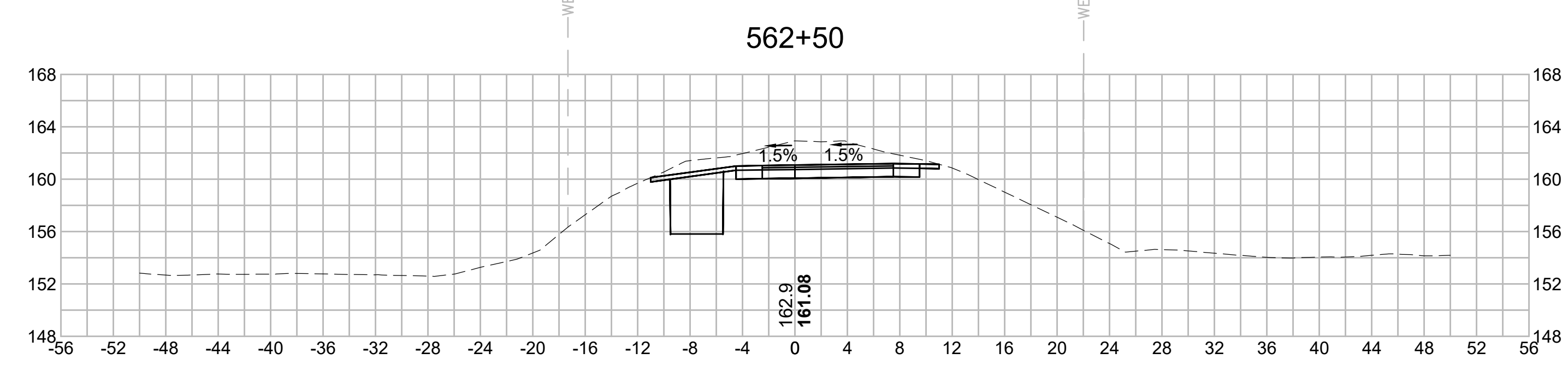
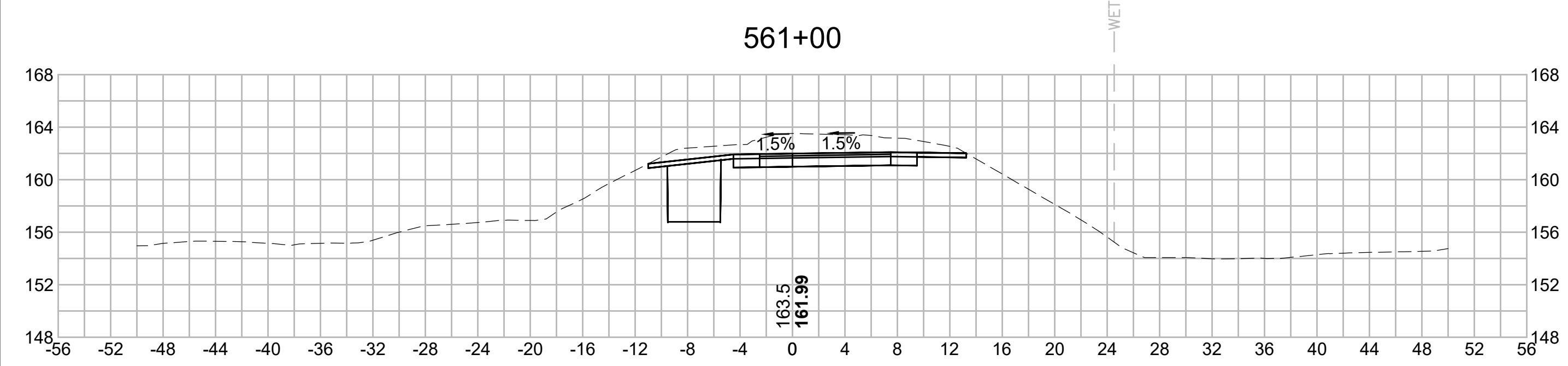
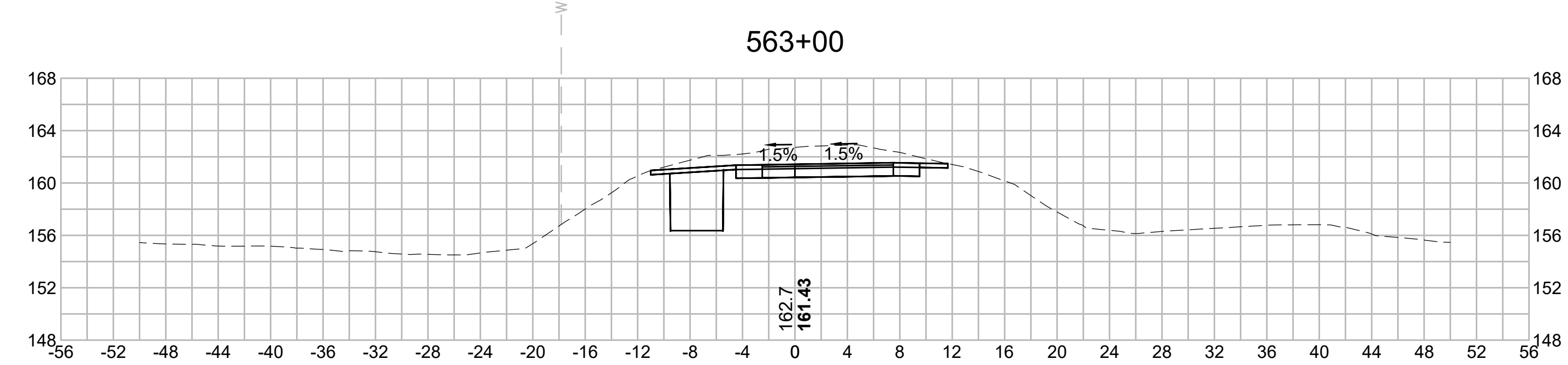
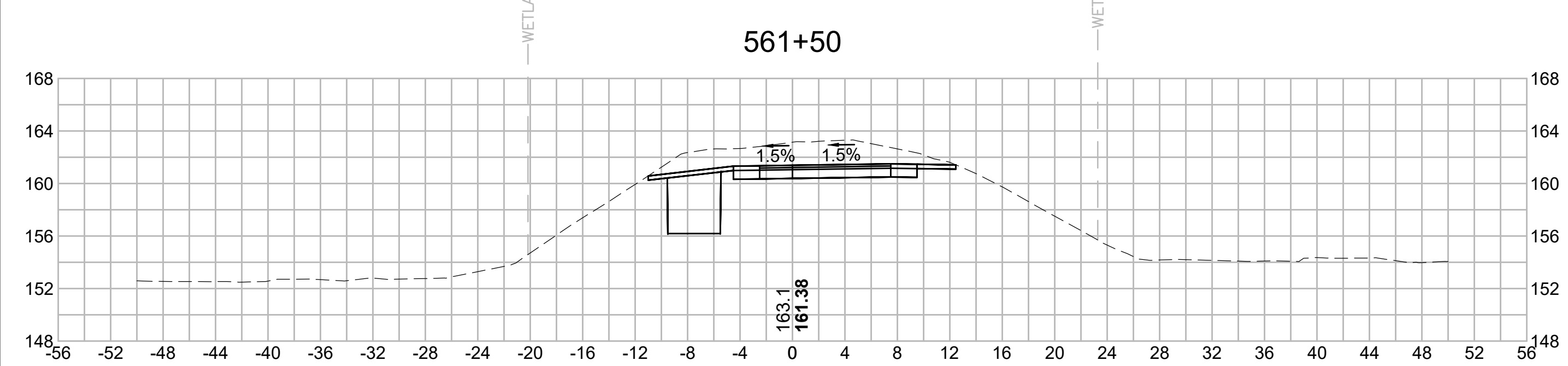
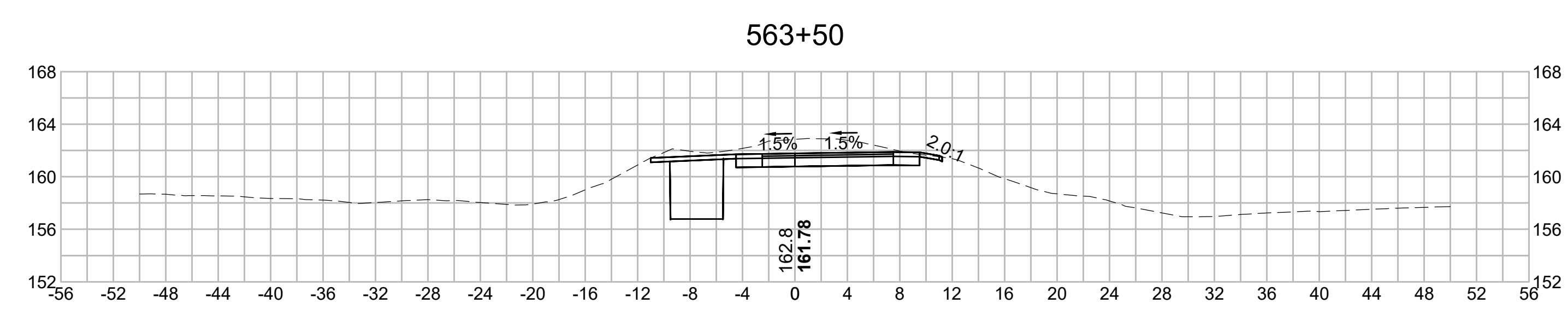
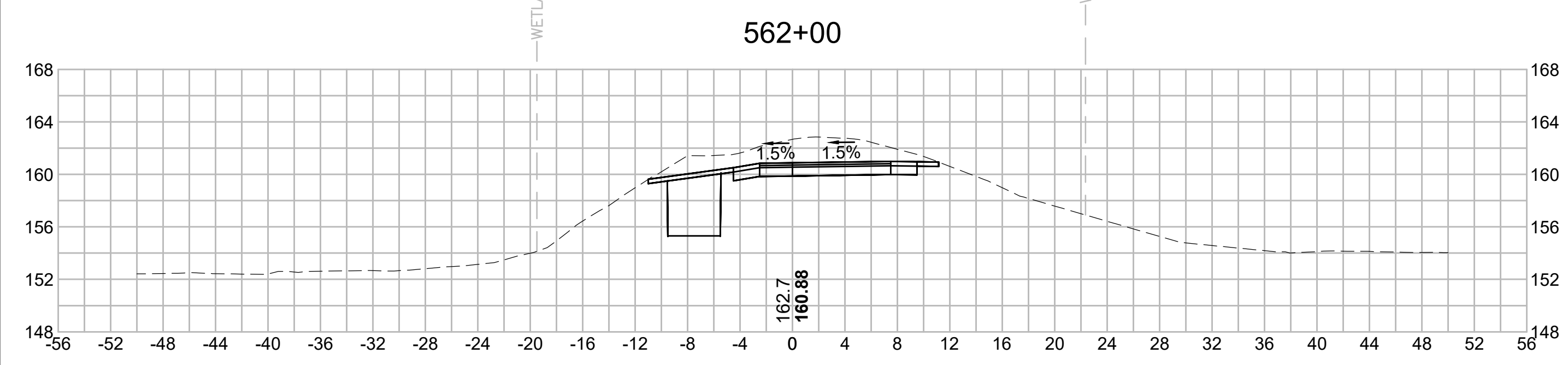
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 307 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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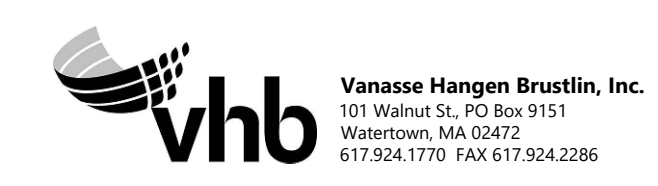
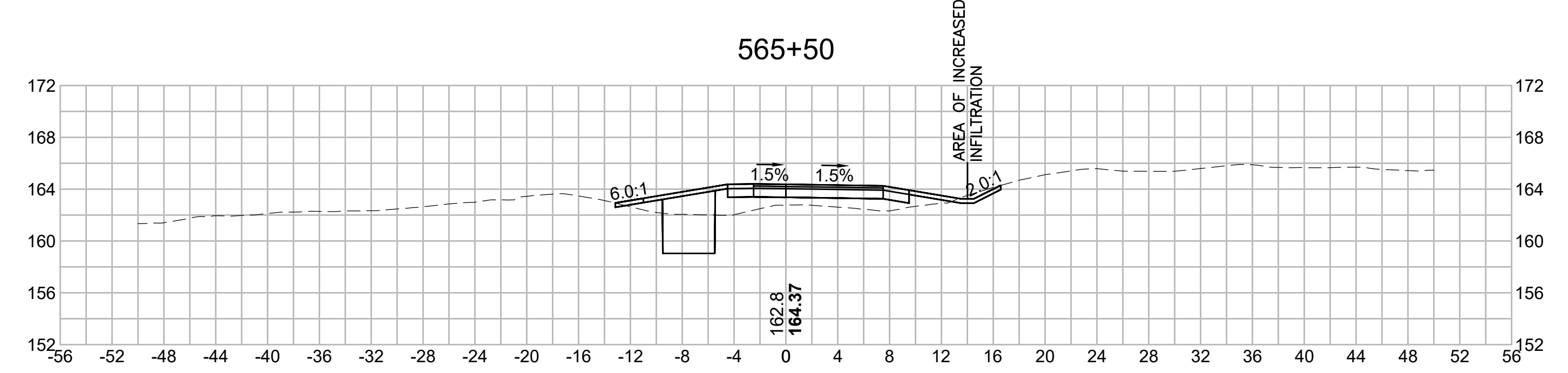
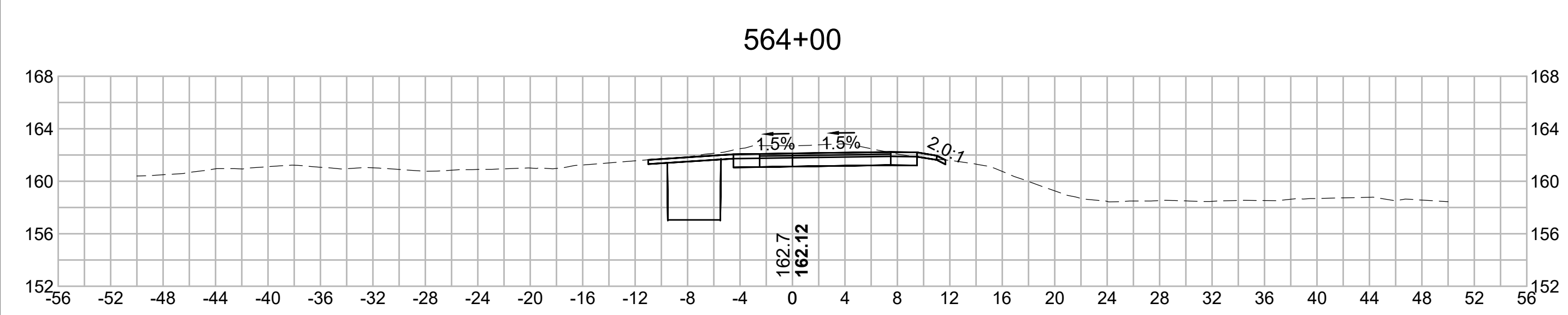
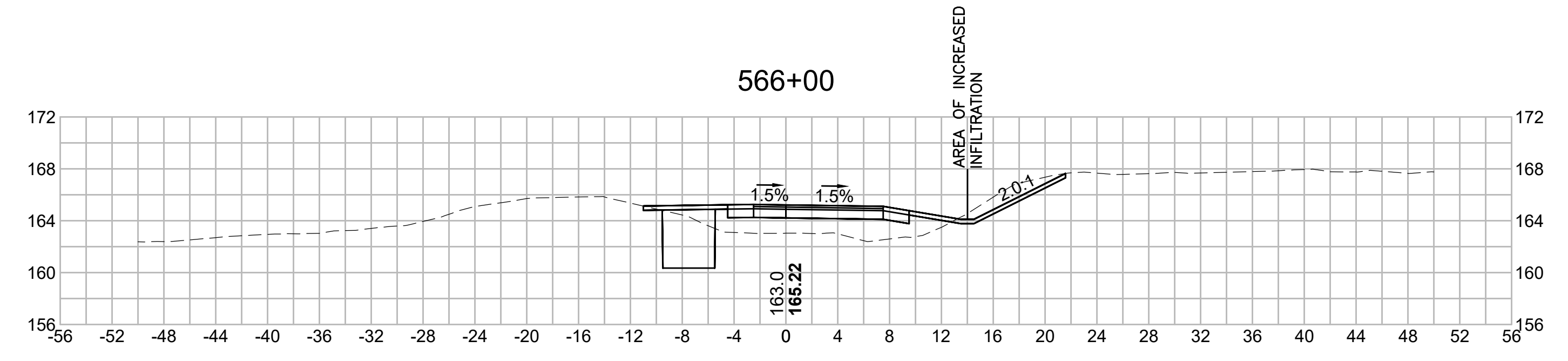
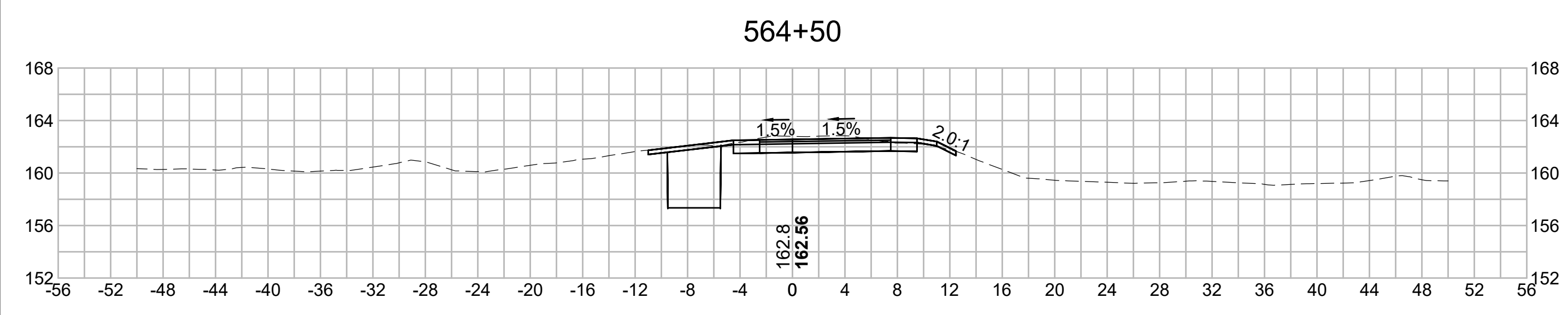
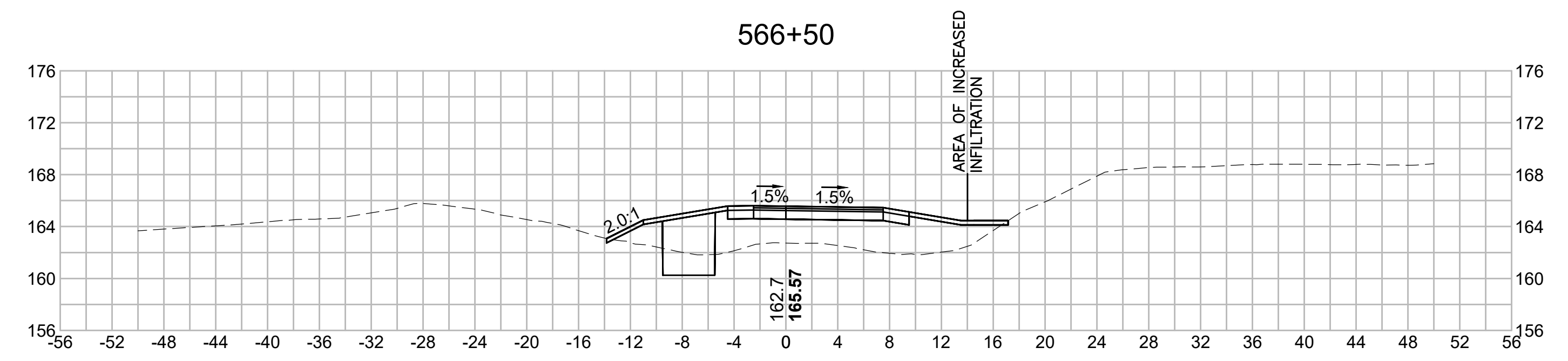
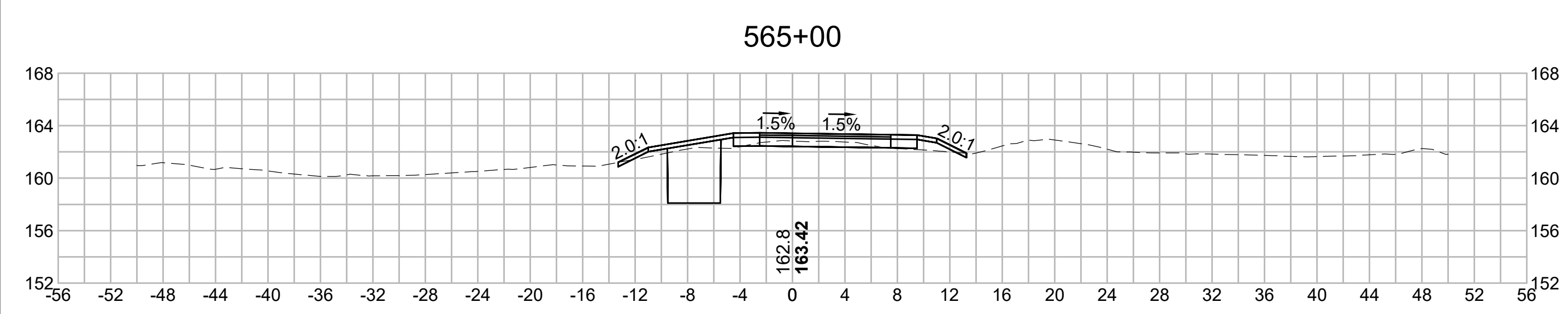
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
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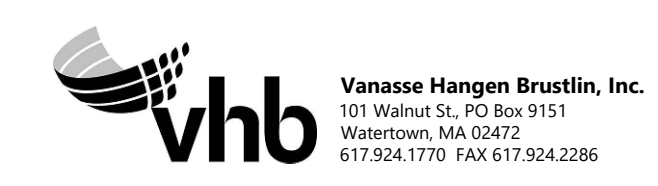
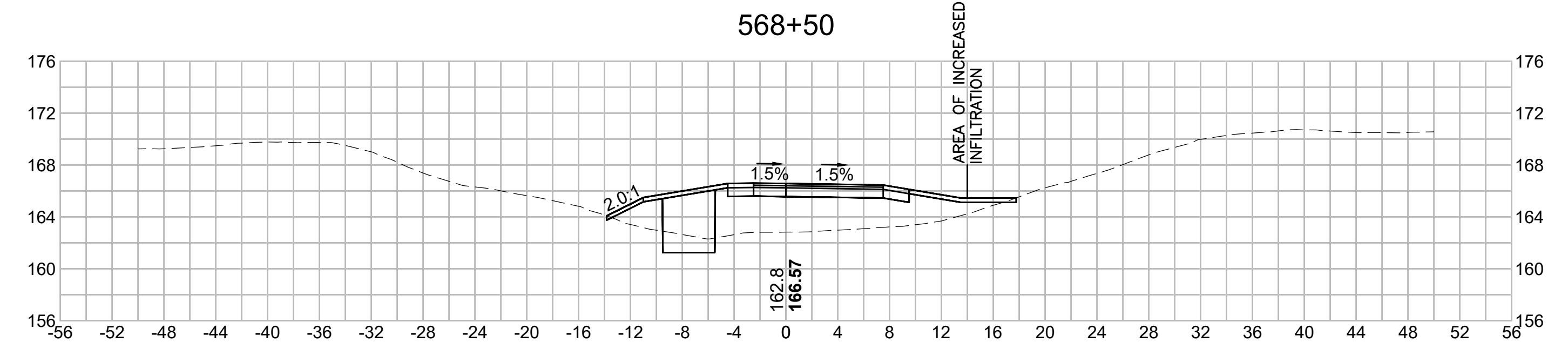
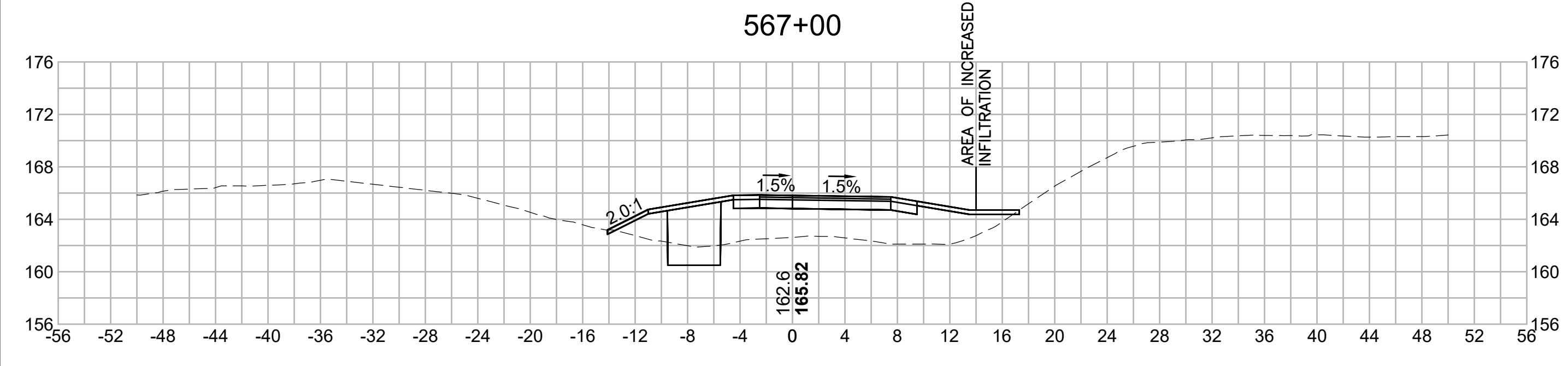
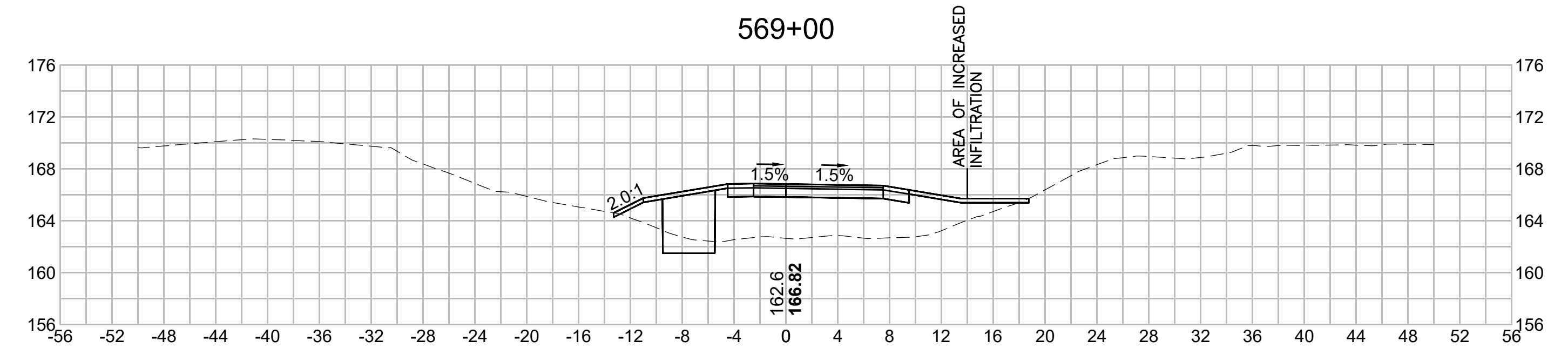
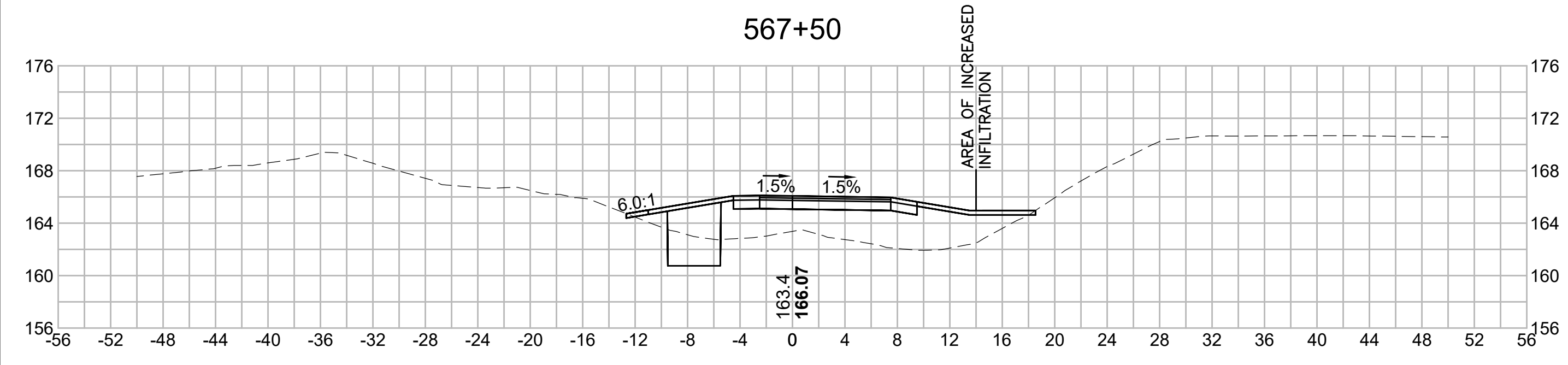
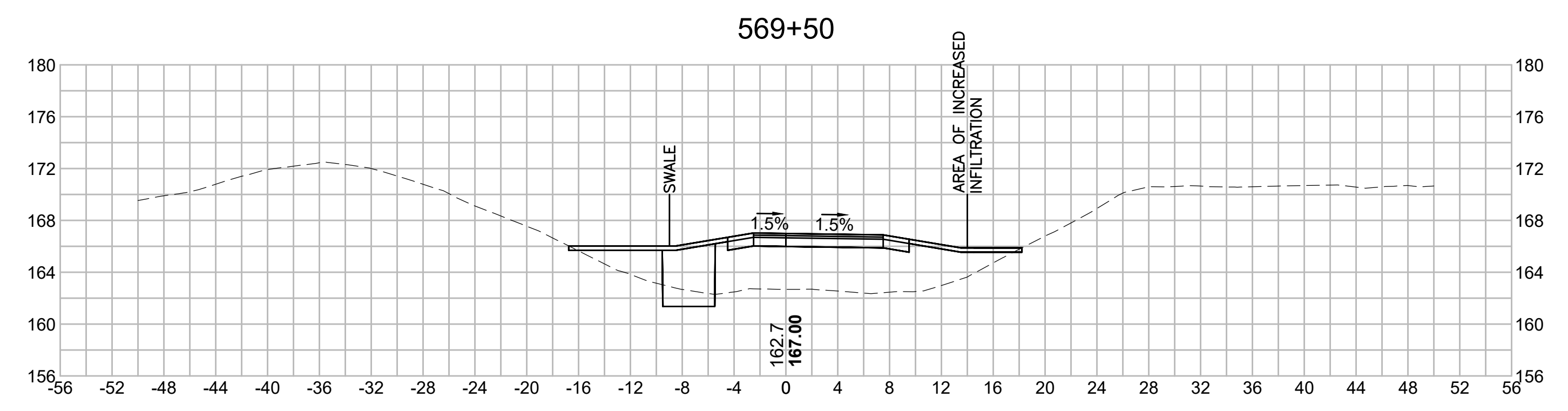
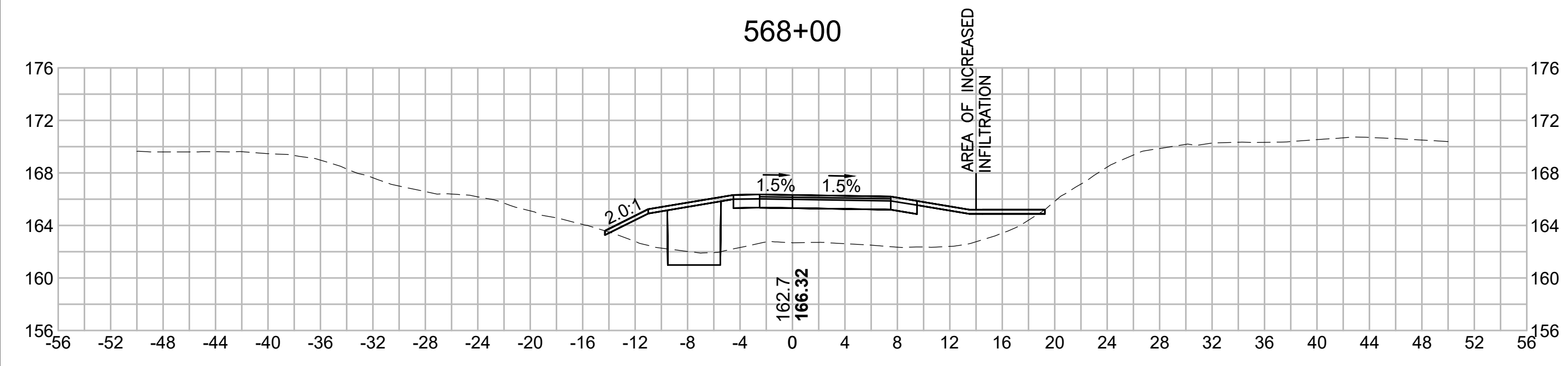
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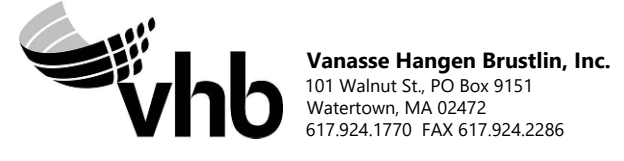
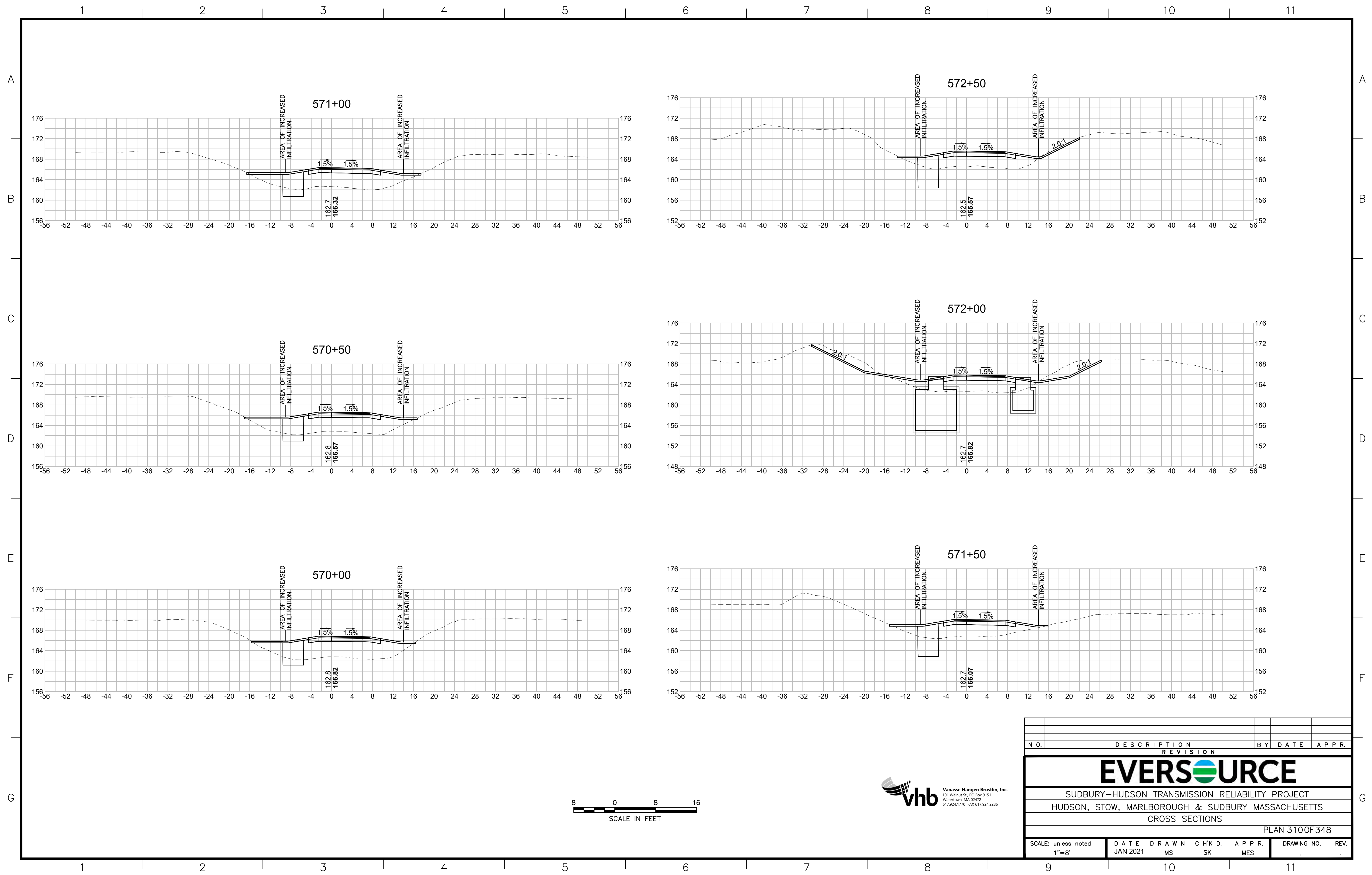
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N.O.	DESCRIPTION	BY	DATE	APPR.
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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 309 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
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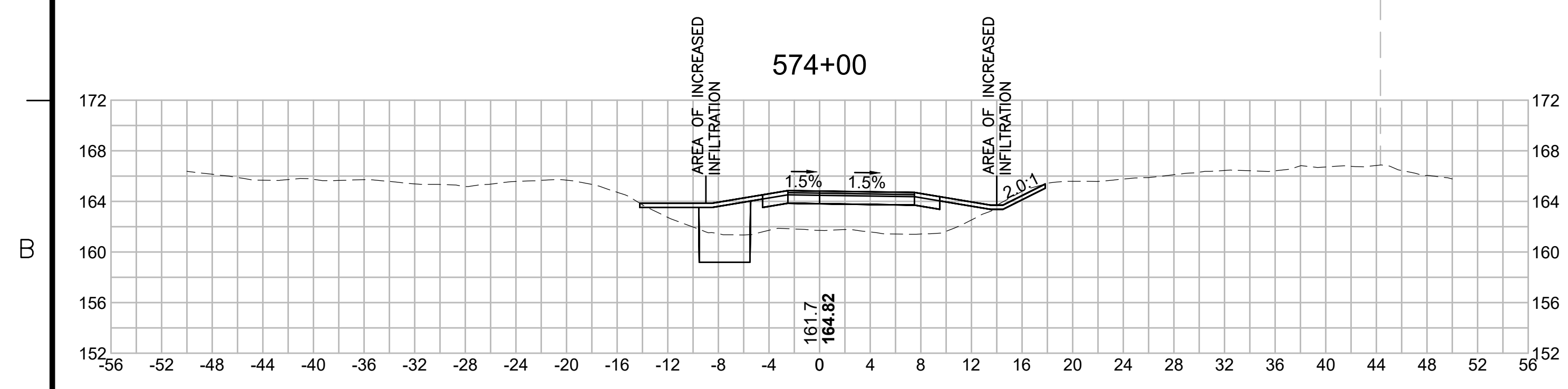
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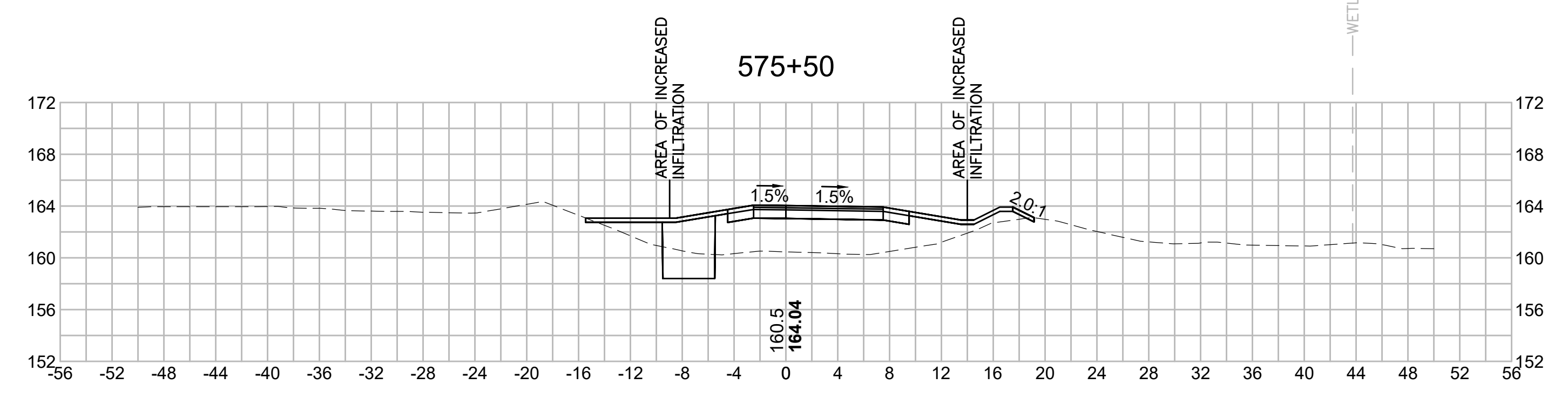
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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 310 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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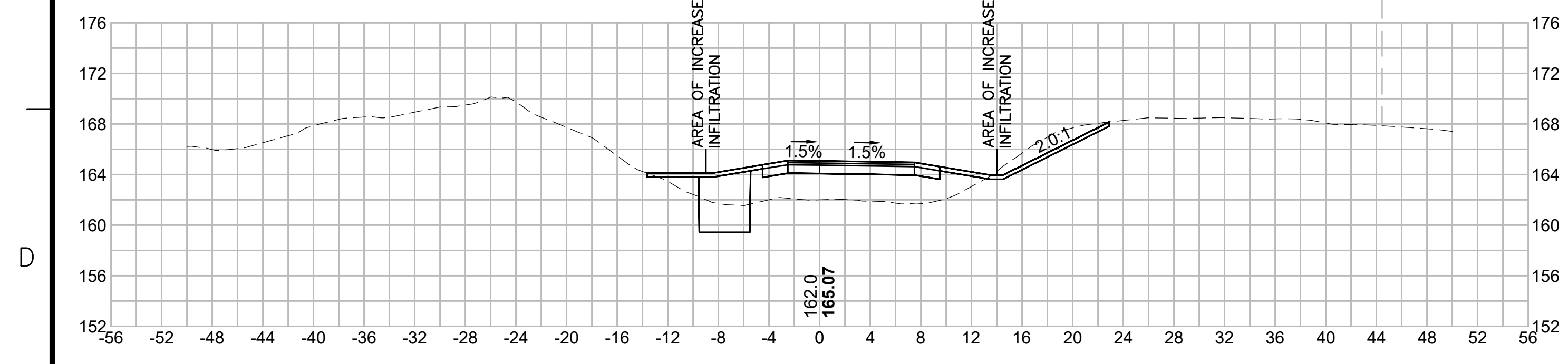
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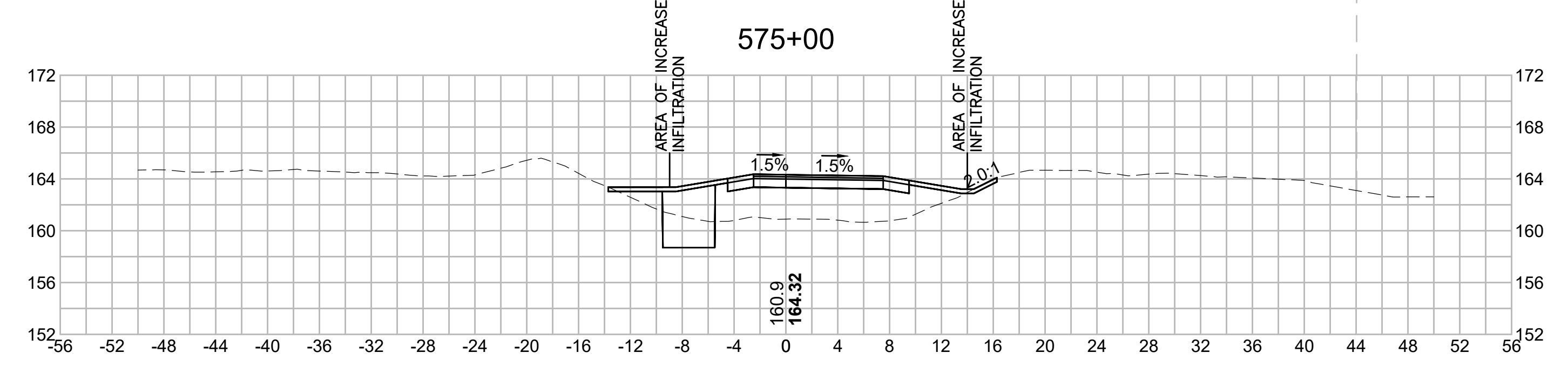
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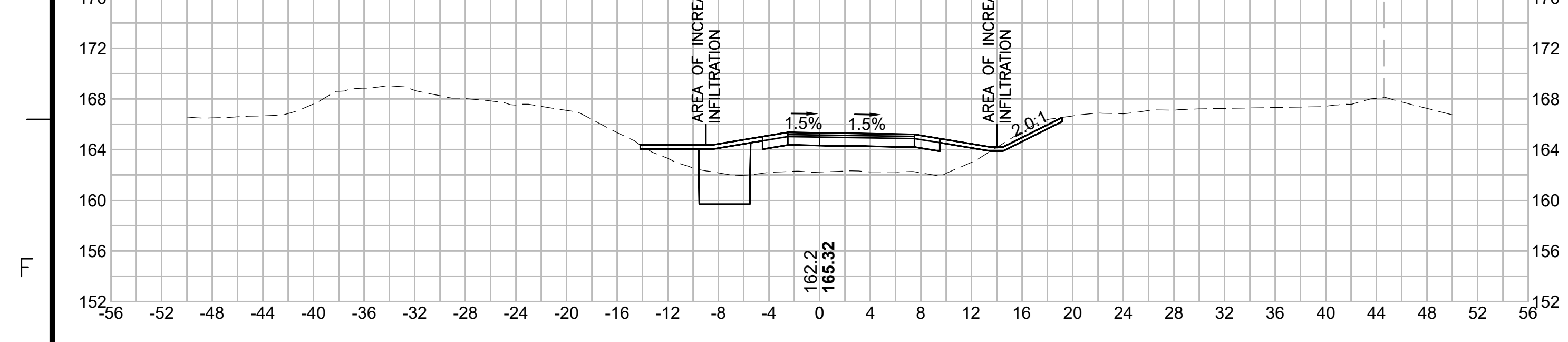
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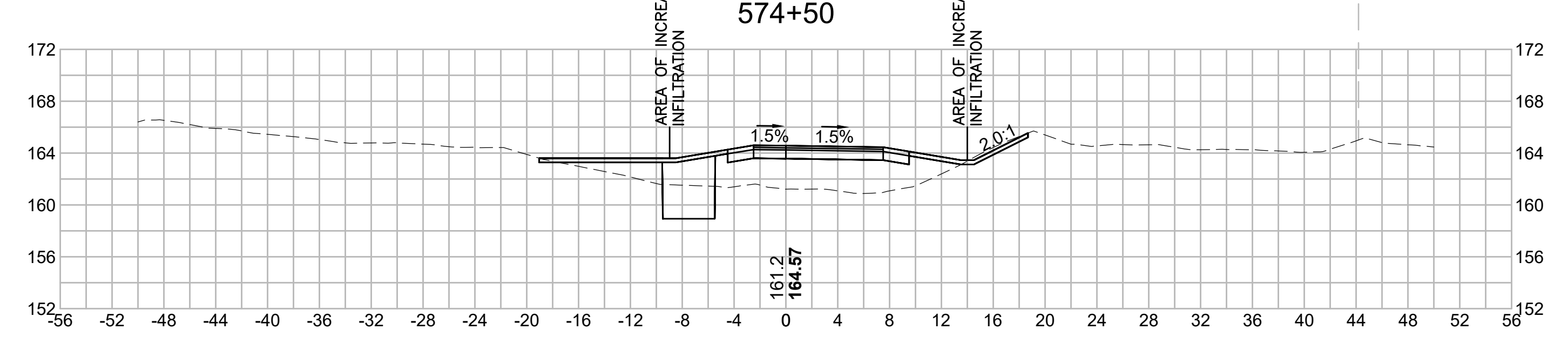
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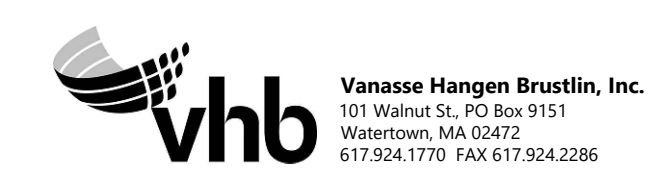
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N.O.	DESCRIPTION	BY	DATE	APPR.
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 3110F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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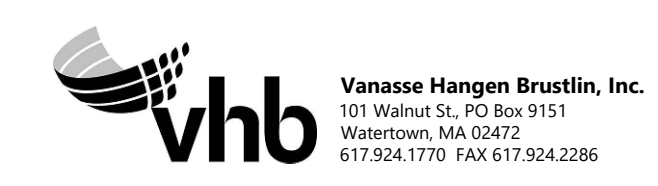
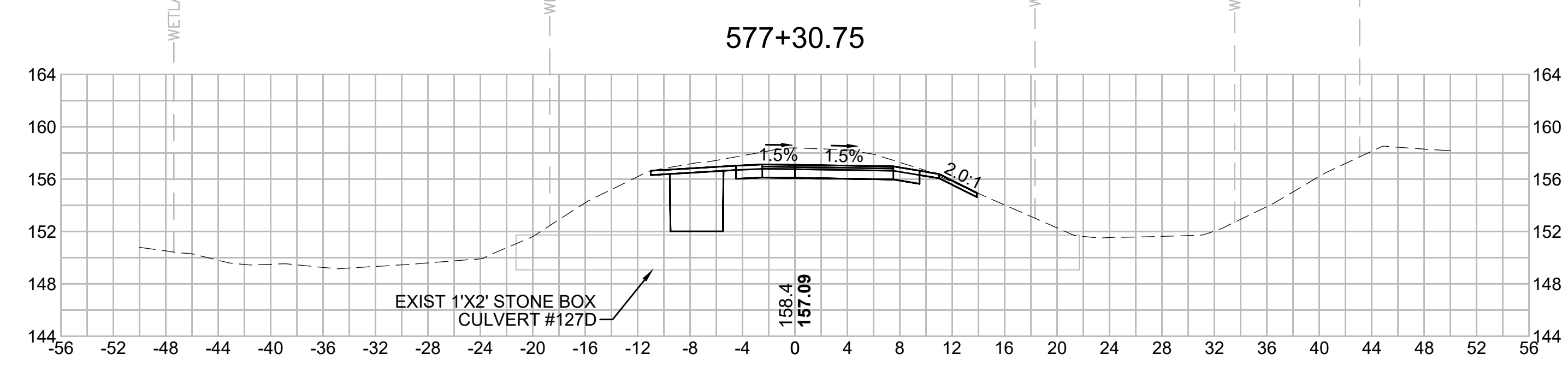
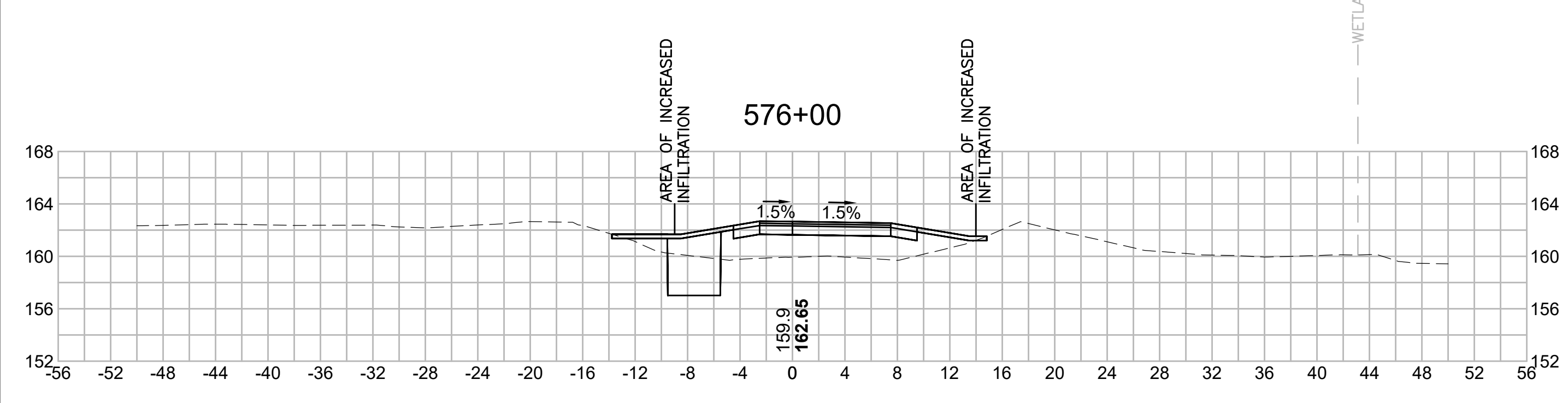
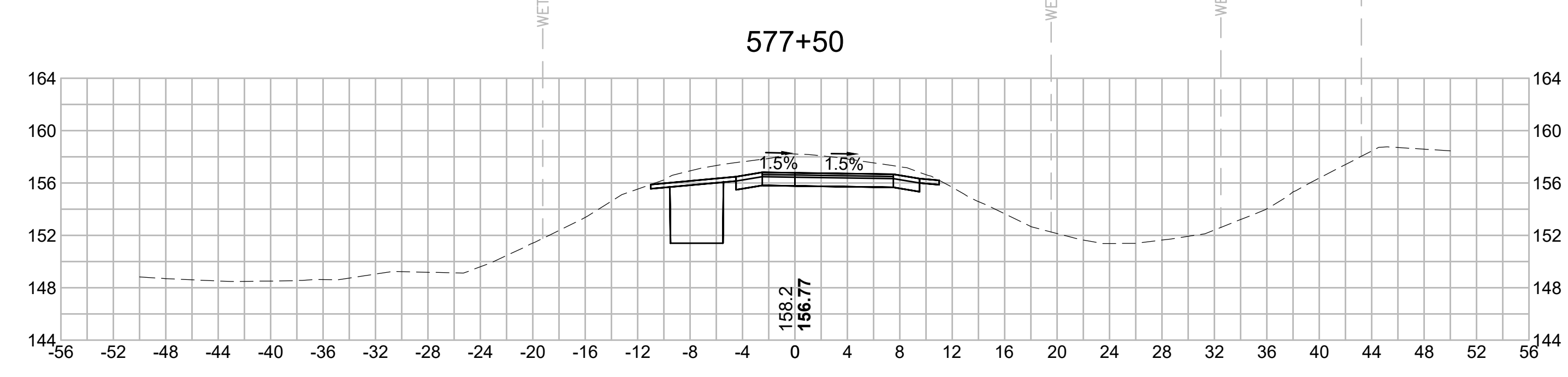
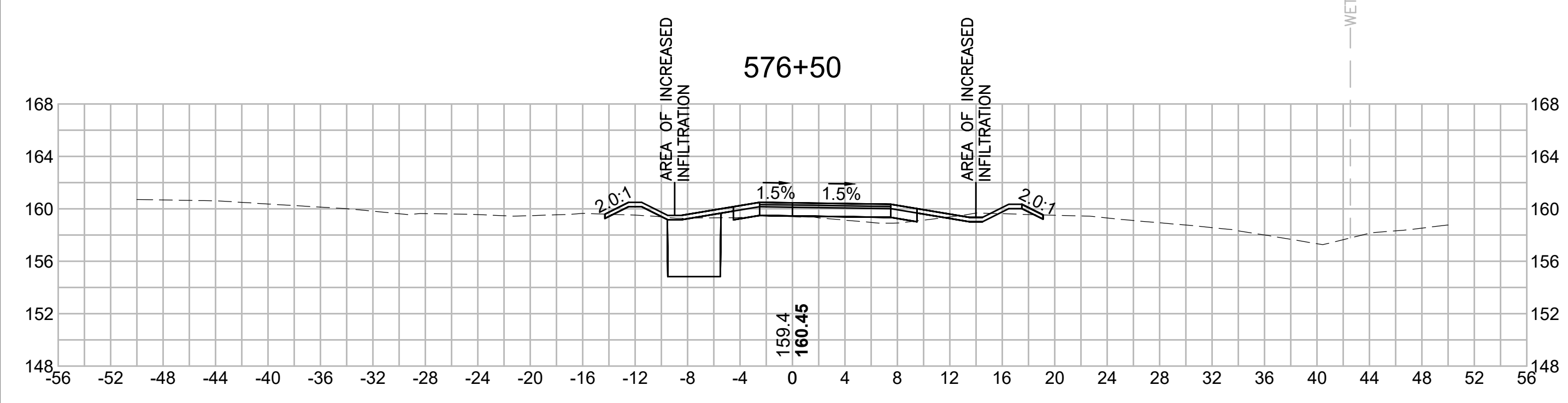
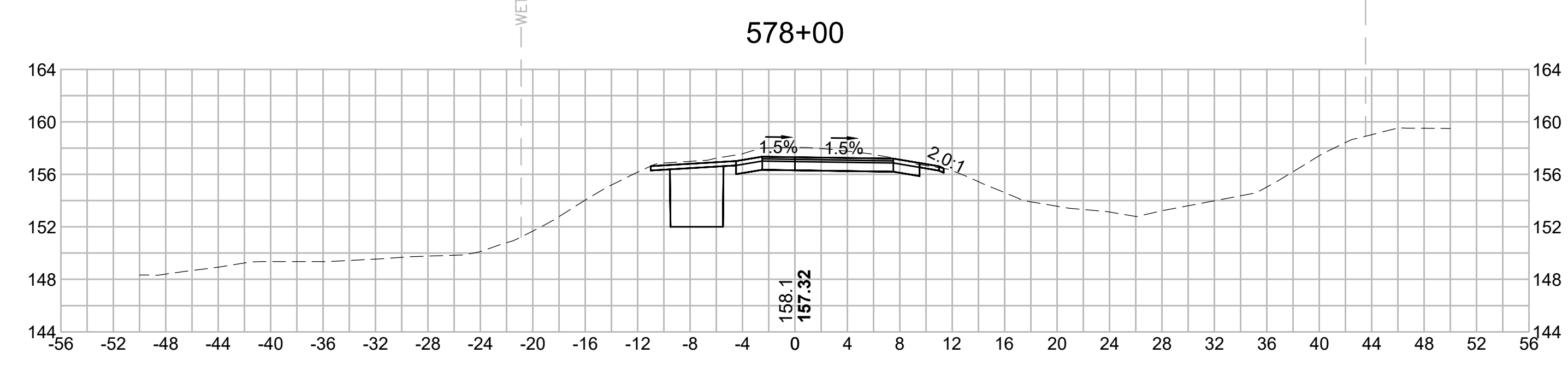
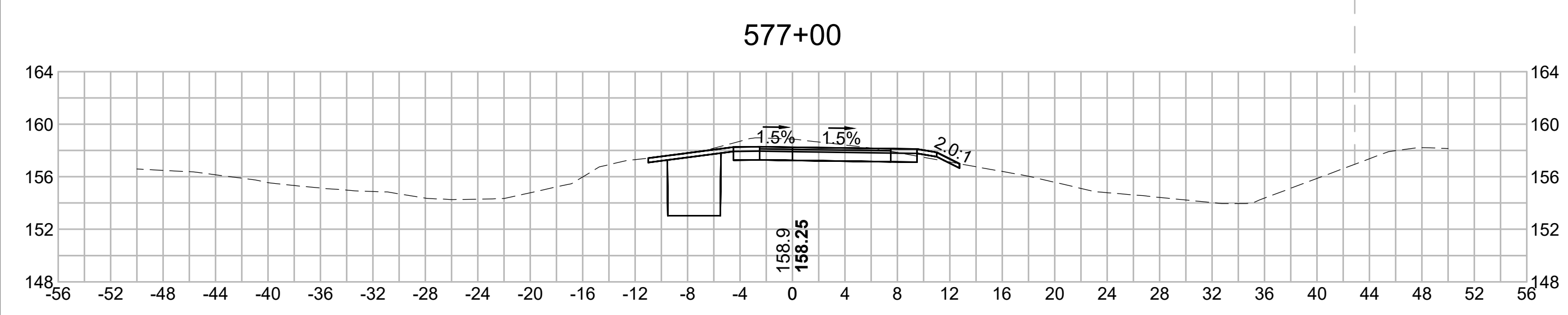
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

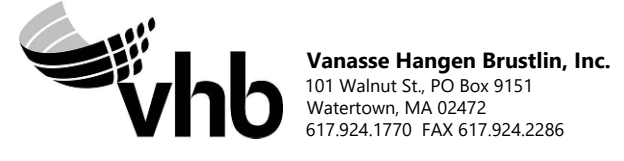
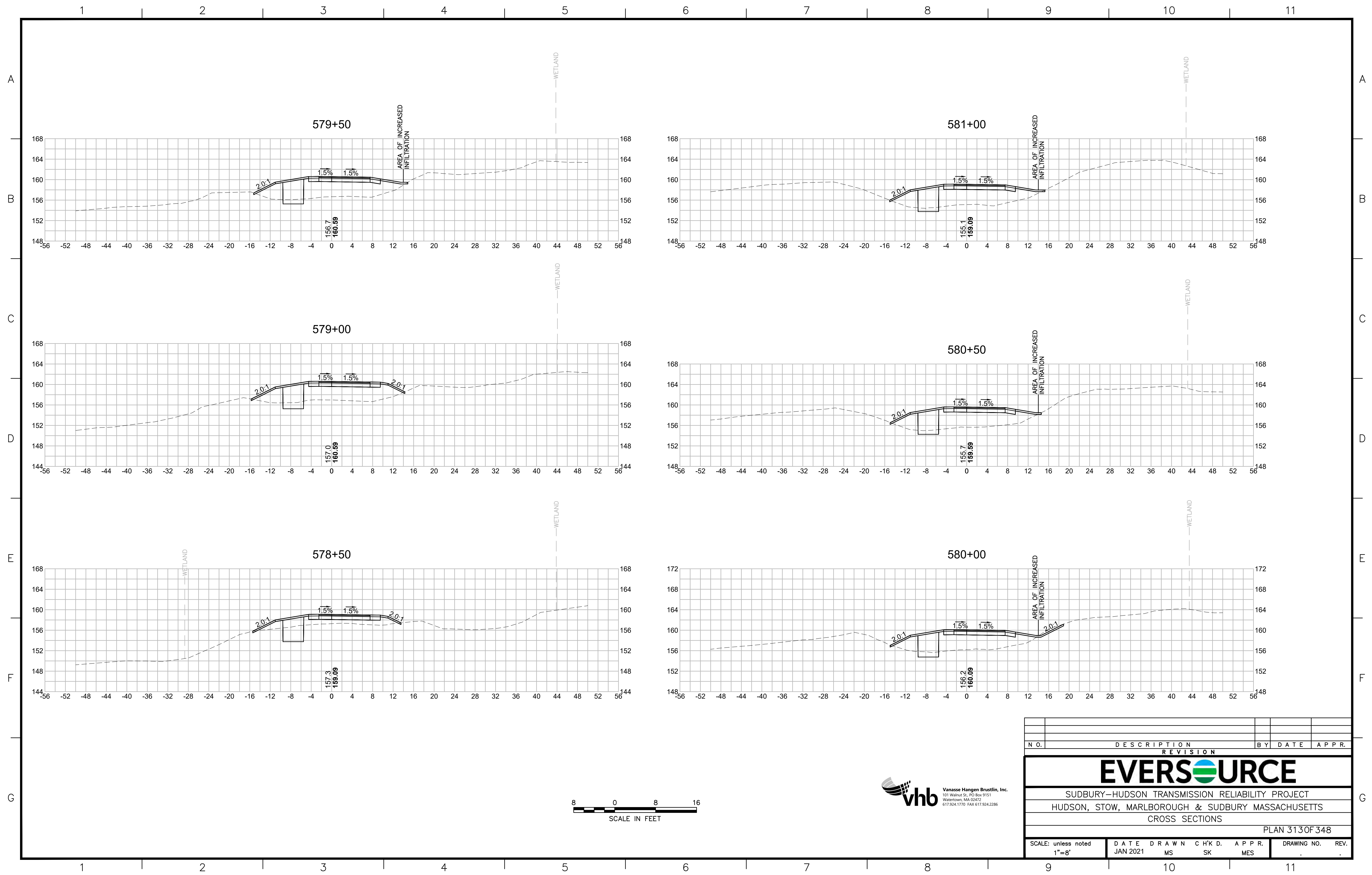
EVERSOURCE

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

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SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.
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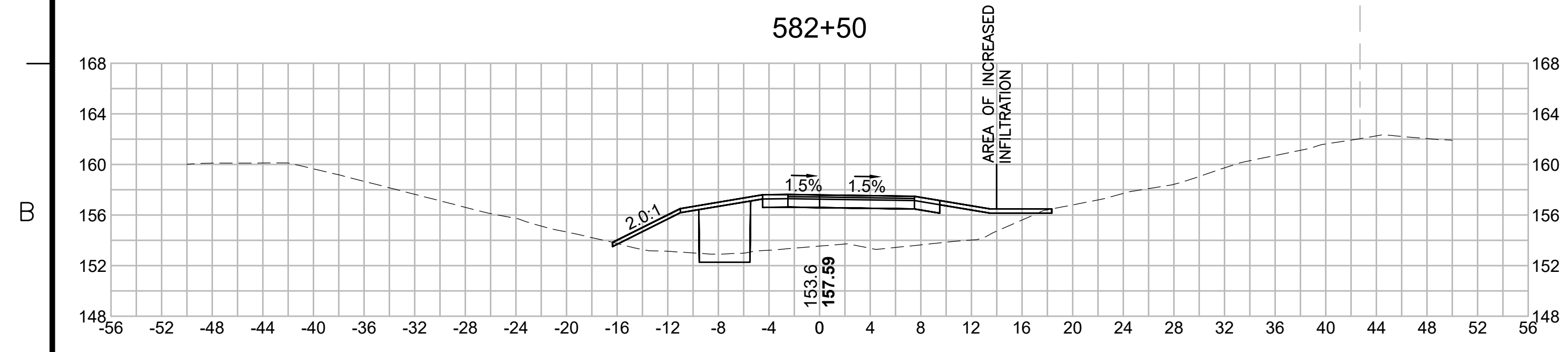
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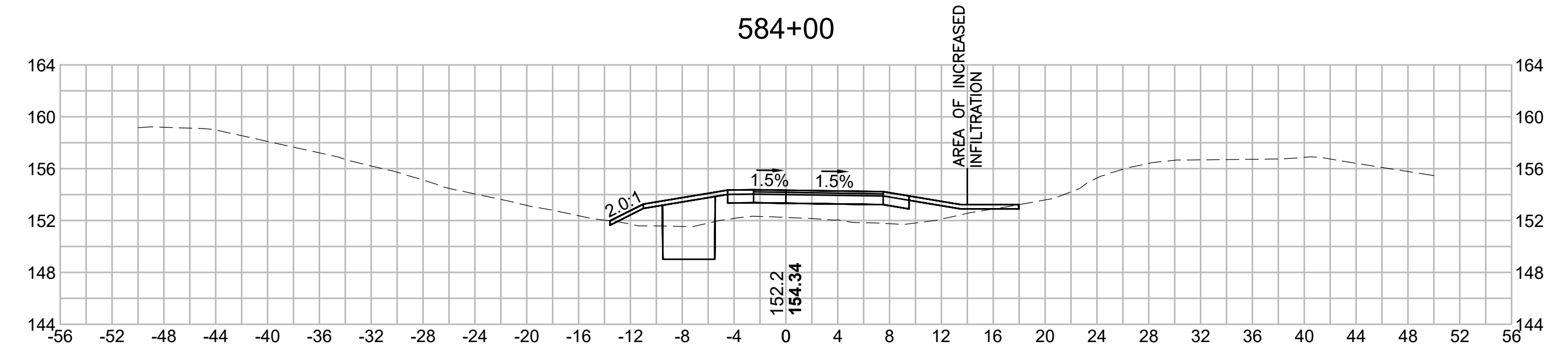
N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 313 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
DRAWING NO.	REV.			

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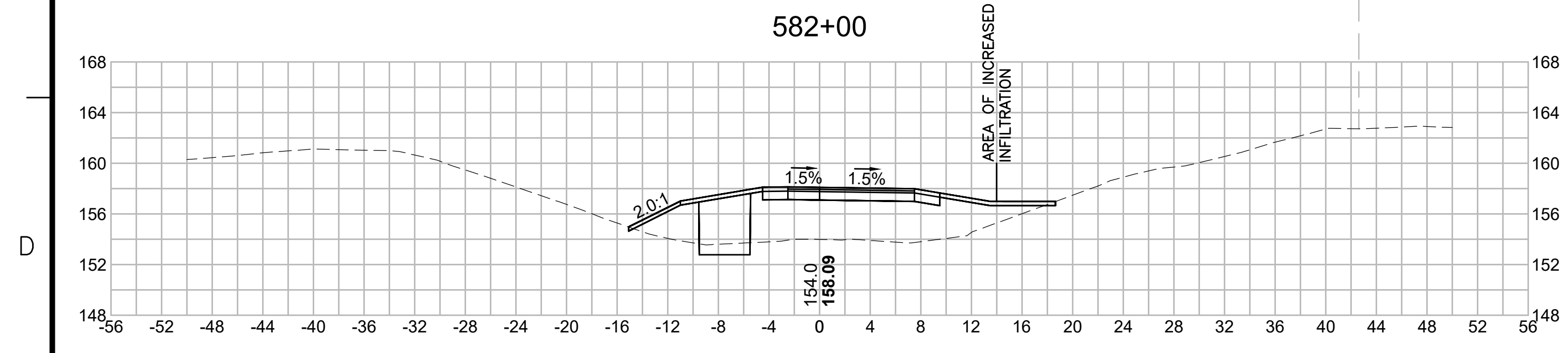


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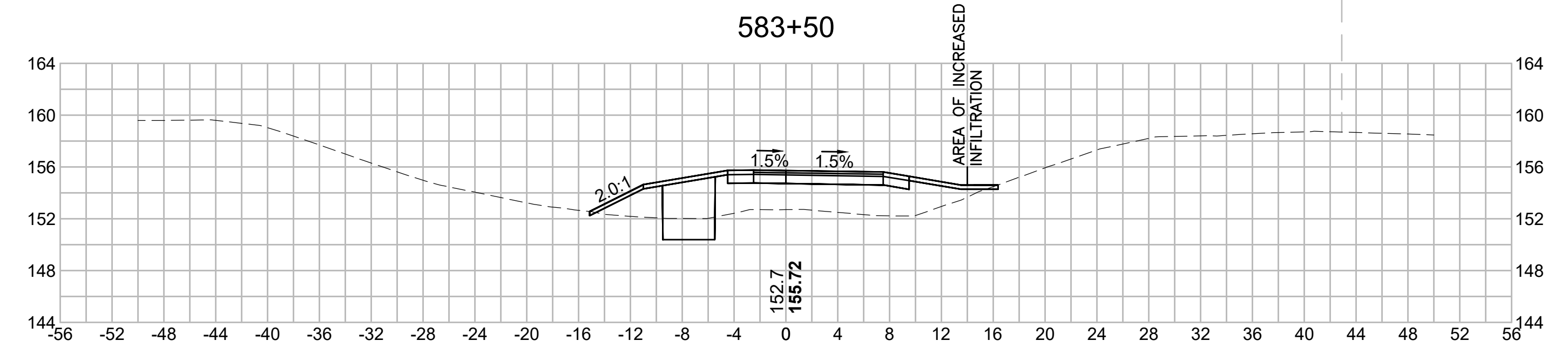


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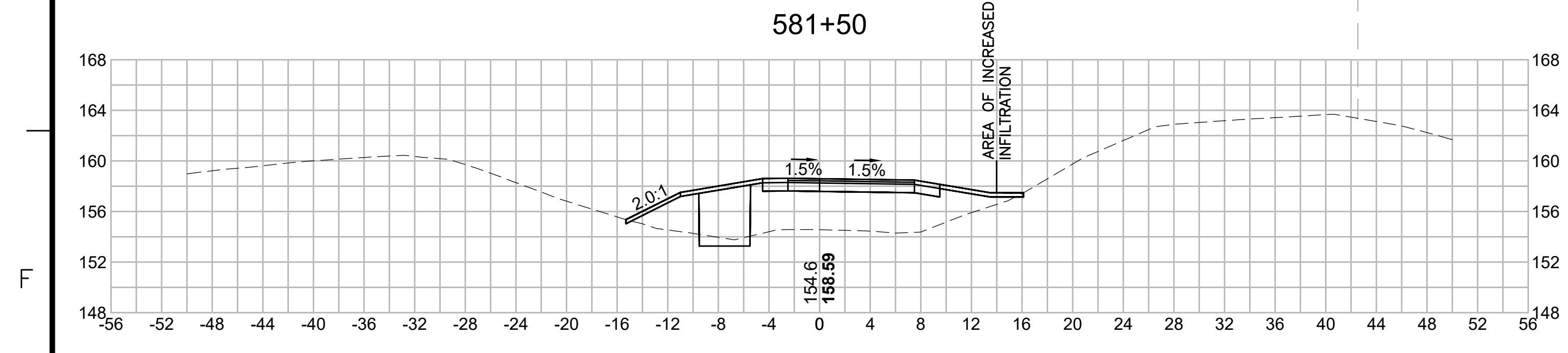


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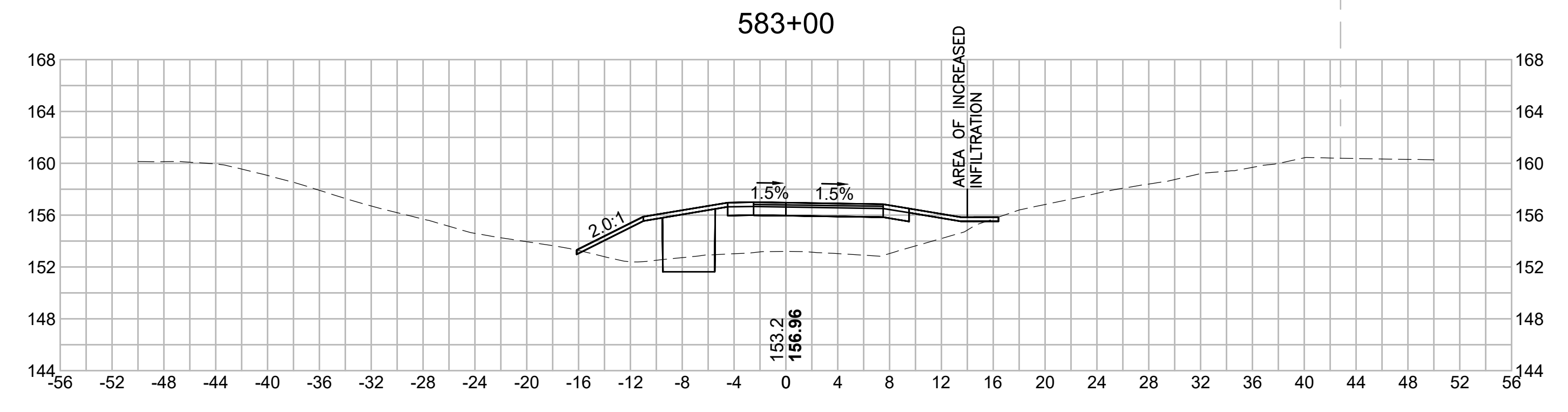


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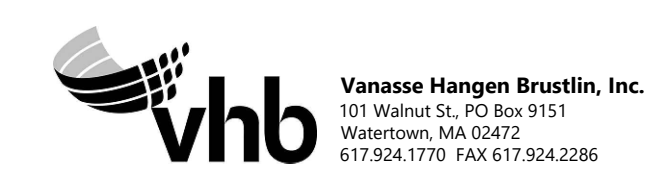


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NO.		DESCRIPTION		BY	DATE	APPR.
		REVISION				
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CROSS SECTIONS						
PLAN 314 OF 348						
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES	DRAWING NO.	REV.

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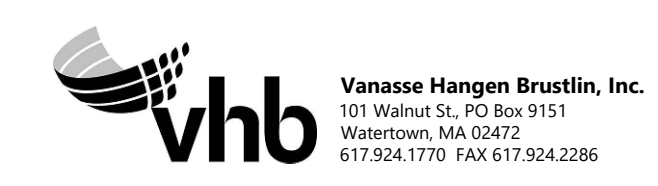
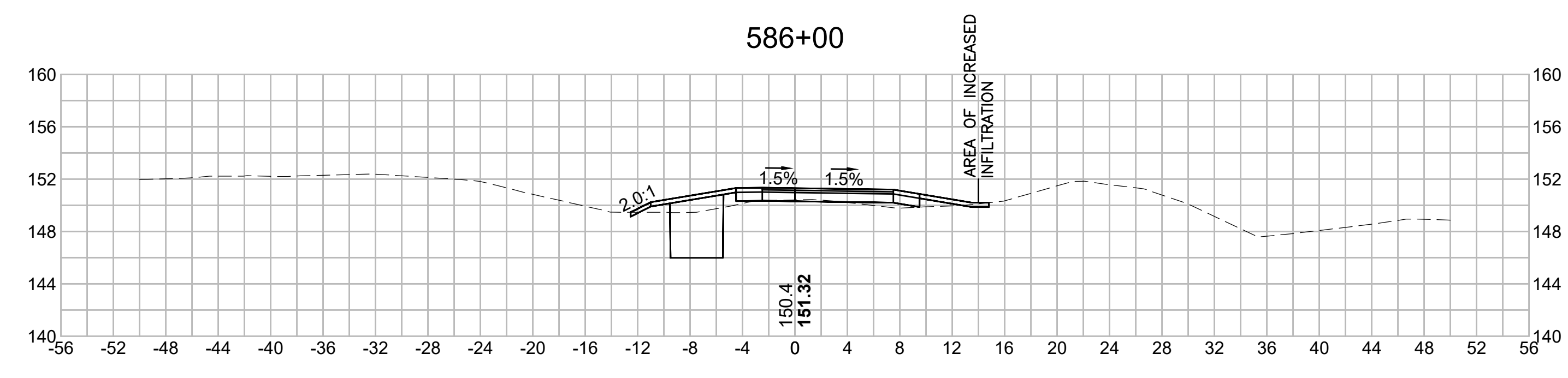
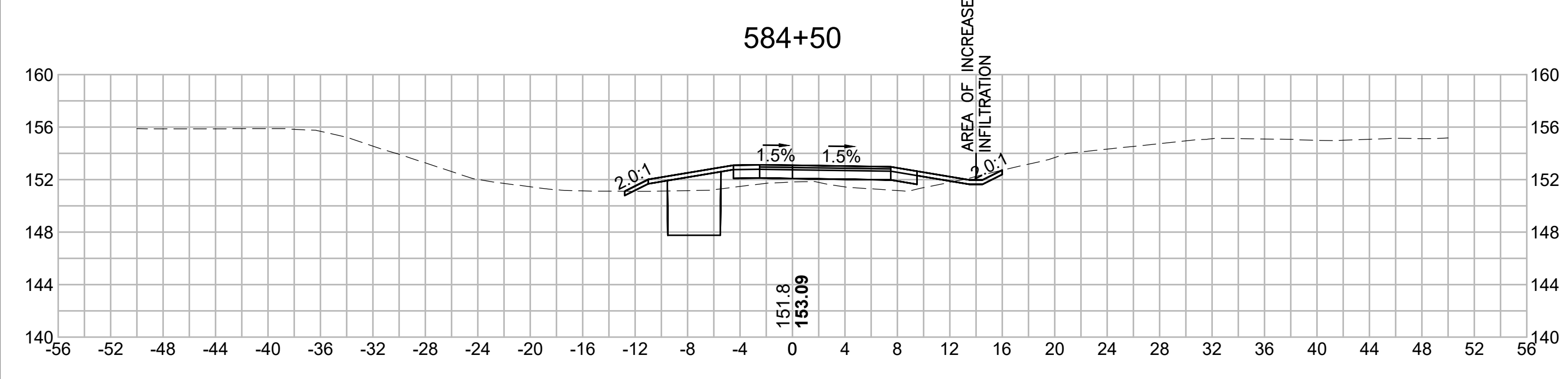
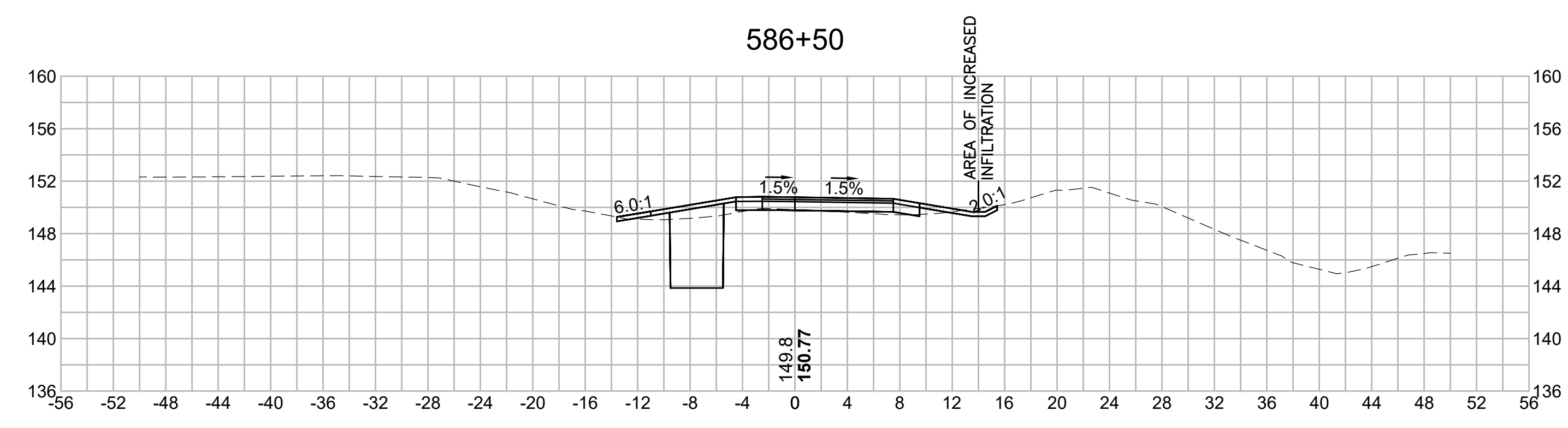
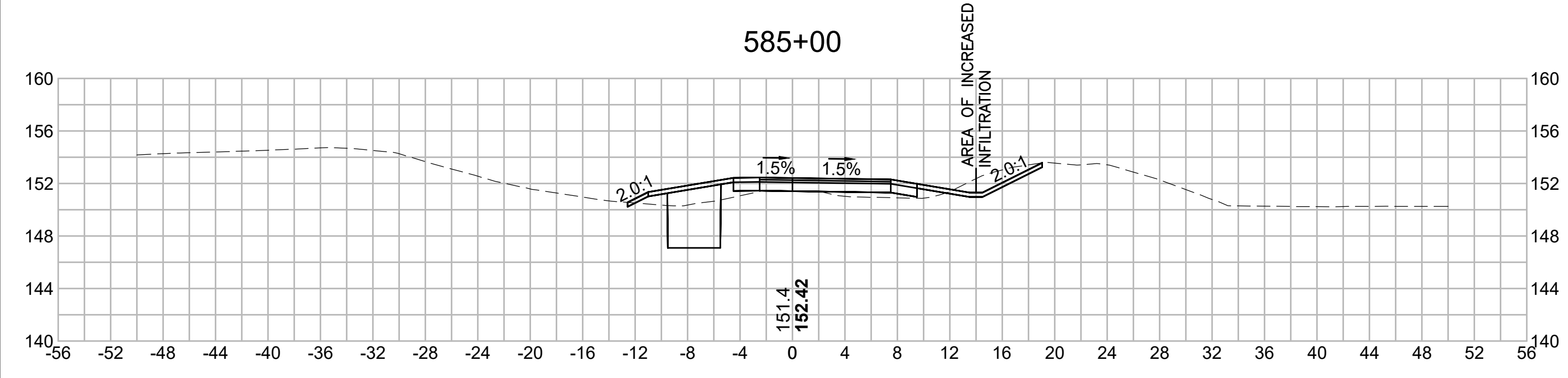
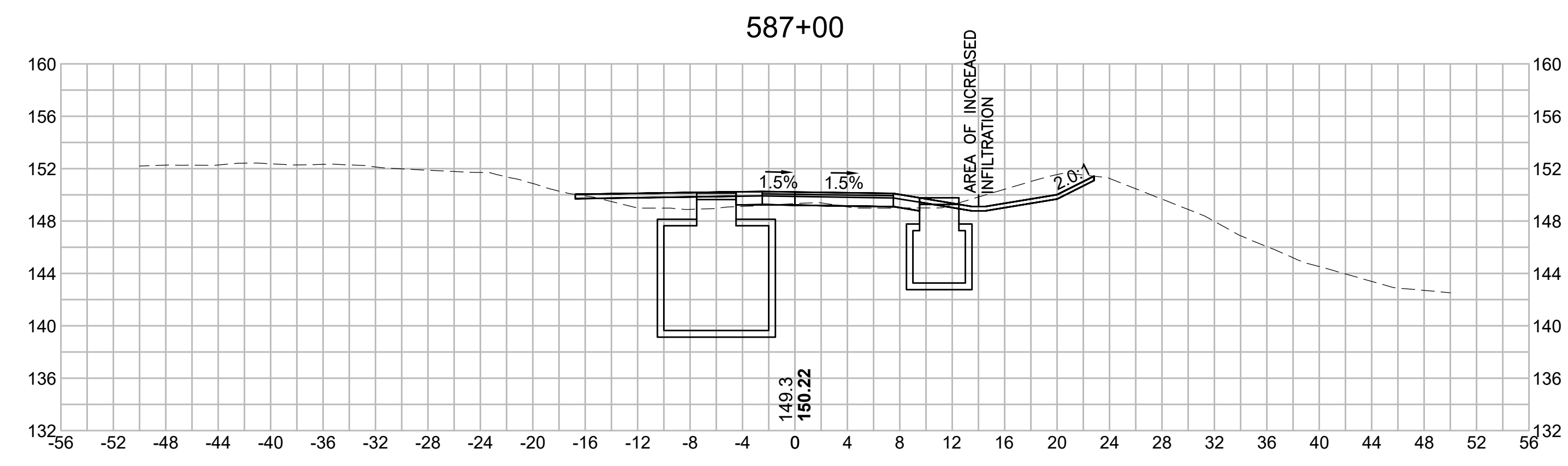
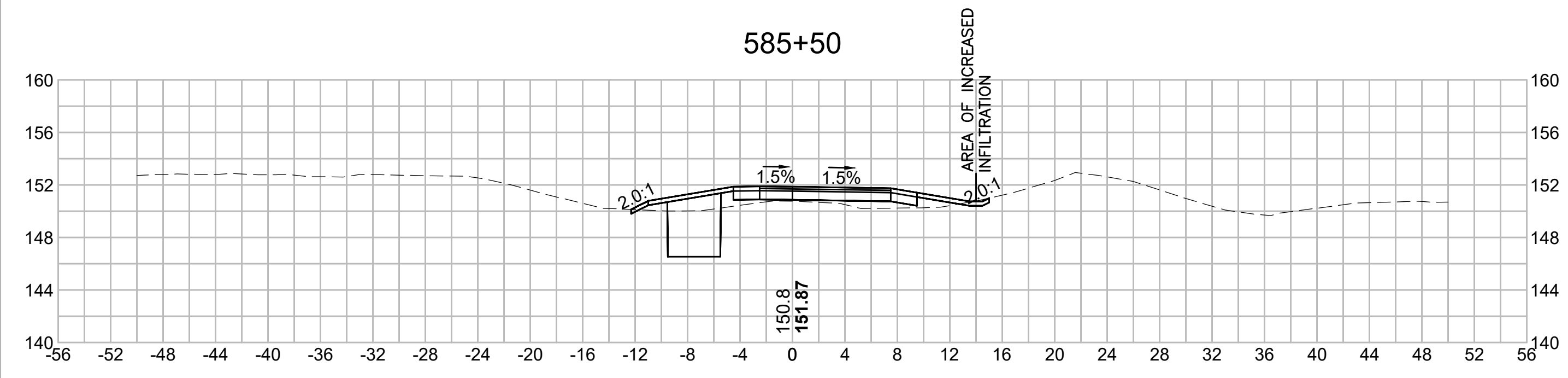
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NO.		DESCRIPTION		BY	DATE	APPR.
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EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
CROSS SECTIONS						
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SCALE: unless noted 1"=8'		DATE	DRAWN	CHK'D	APP'R.	DRAWING NO. REV.
		JAN 2021	MS	SK	MES	

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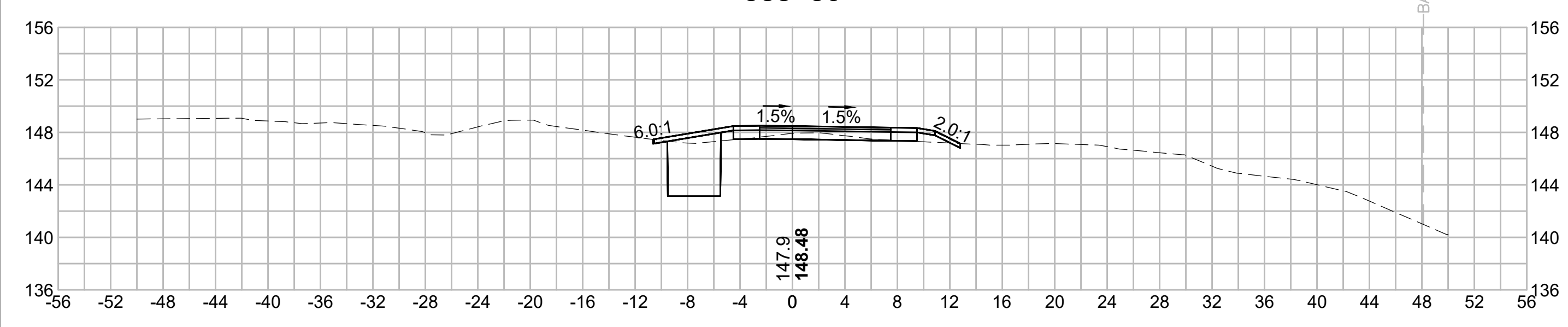
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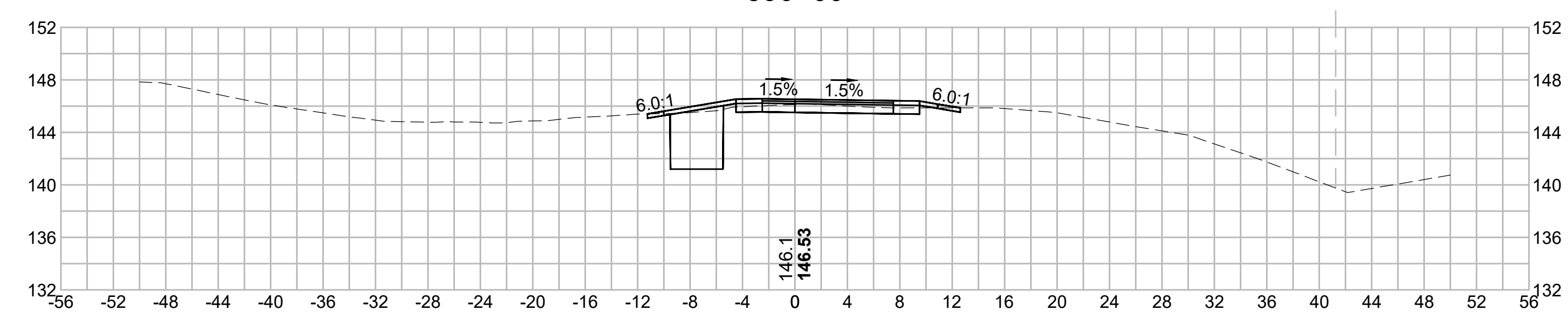
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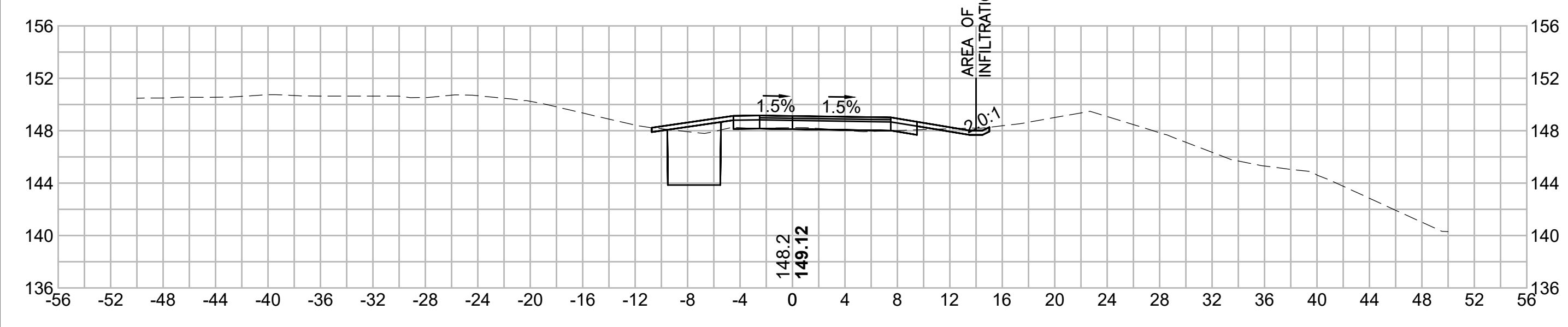
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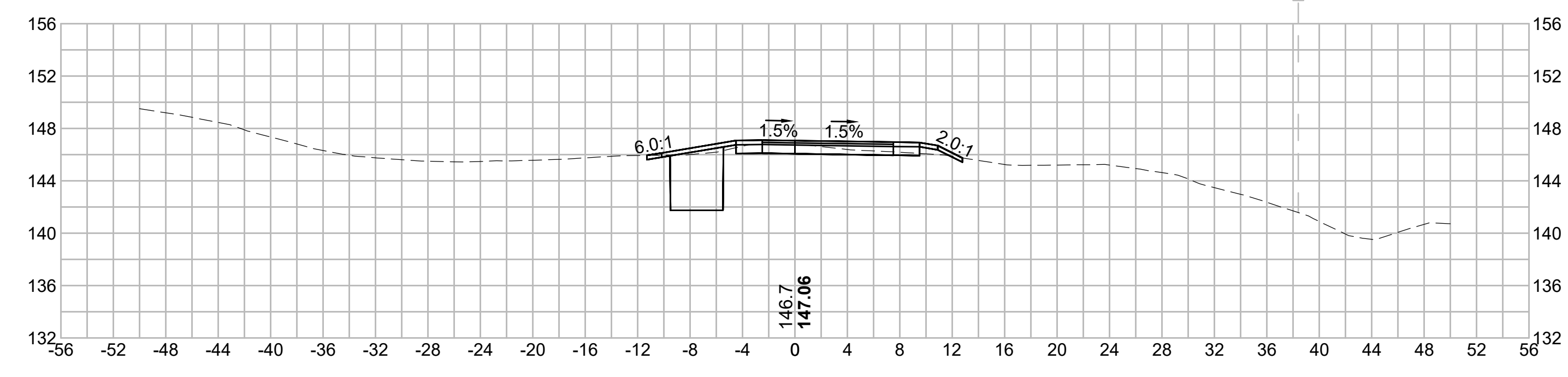
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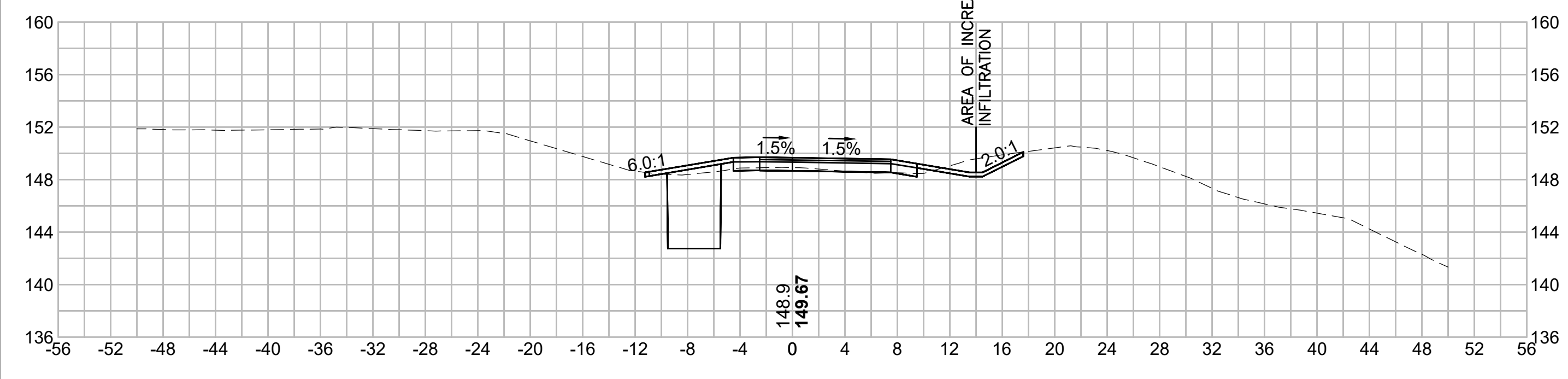
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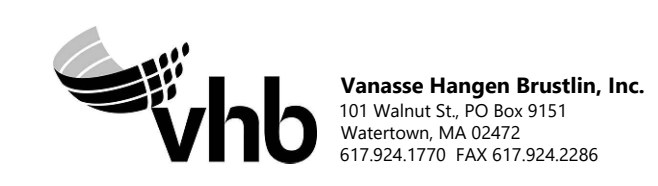
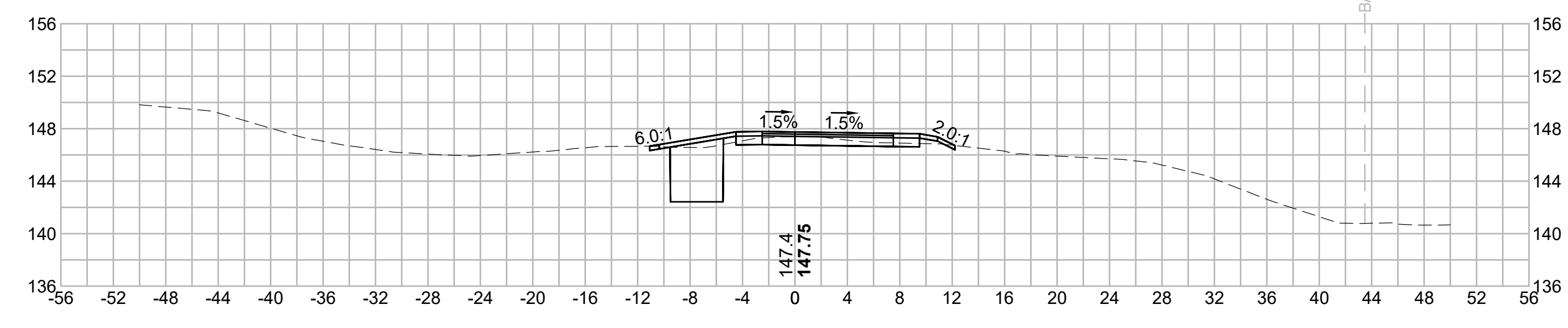
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
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SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
	DRAWING NO.	REV.		

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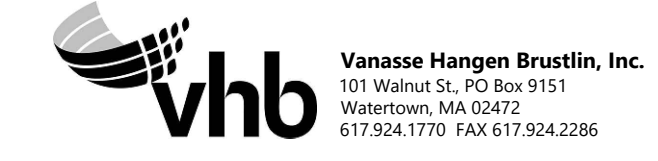
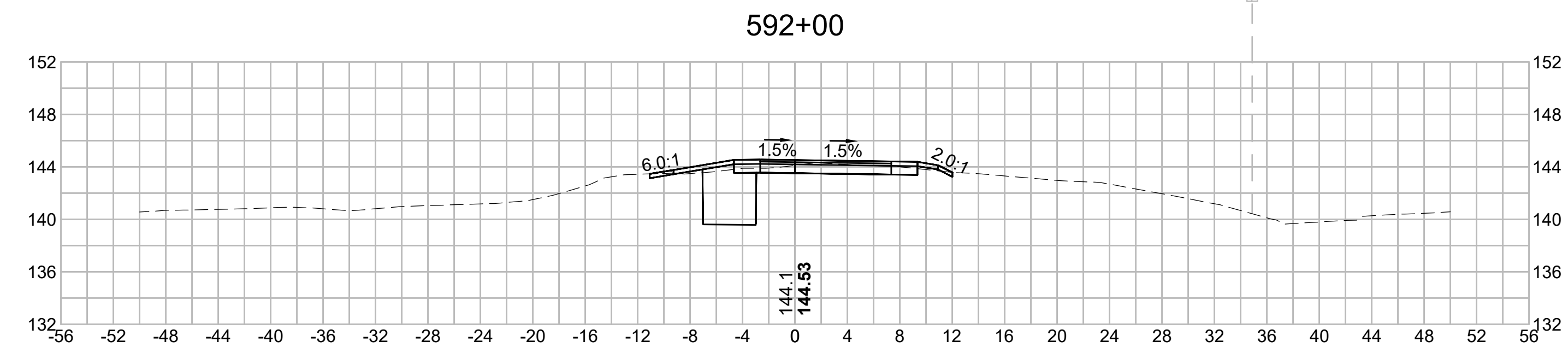
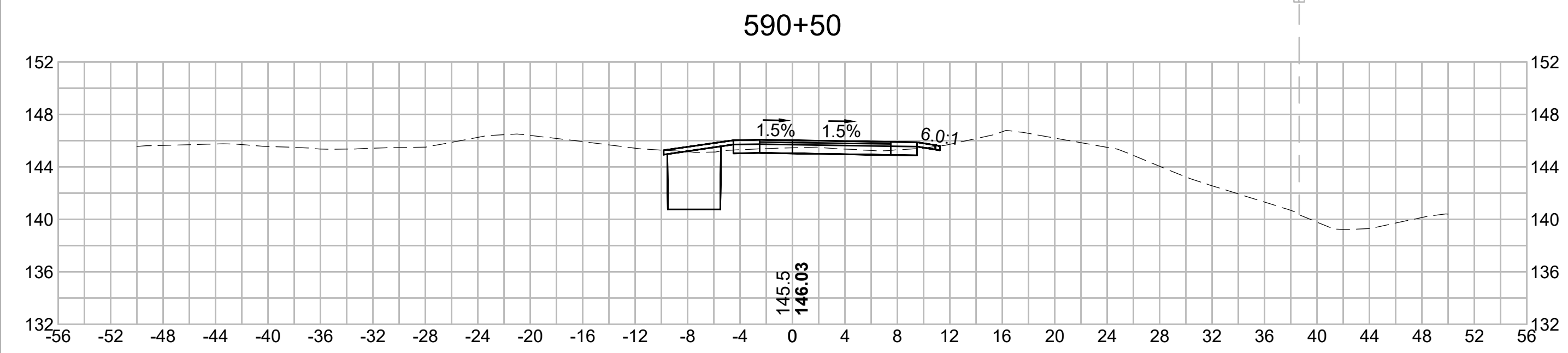
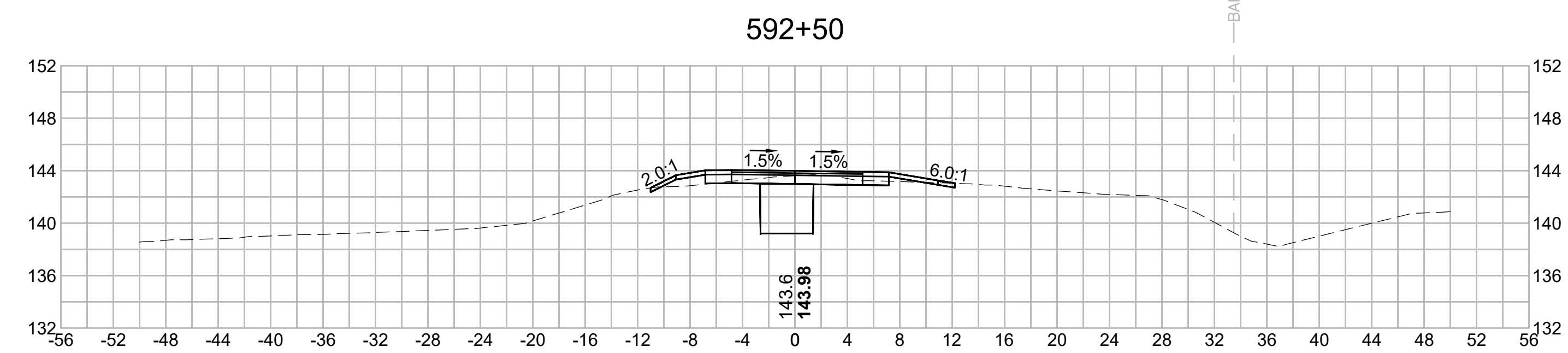
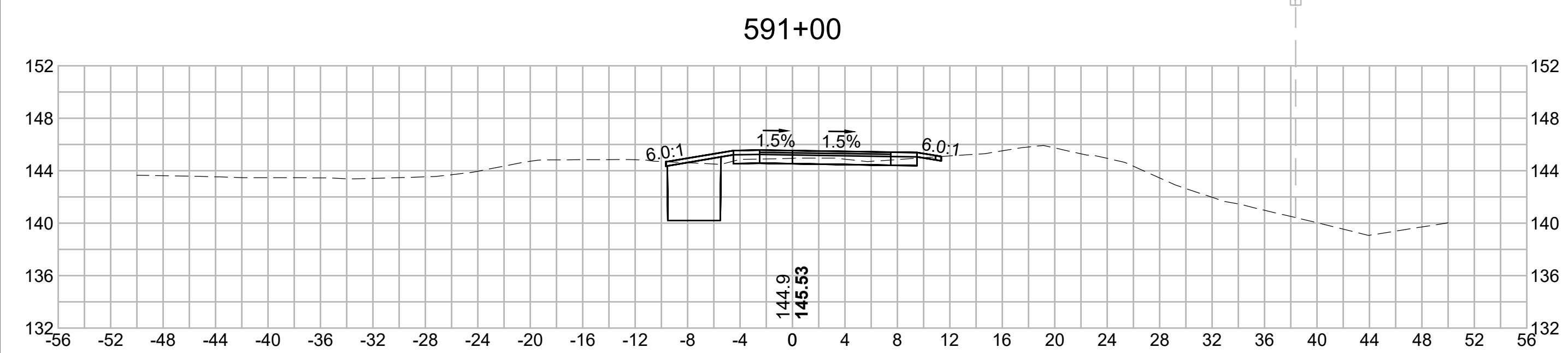
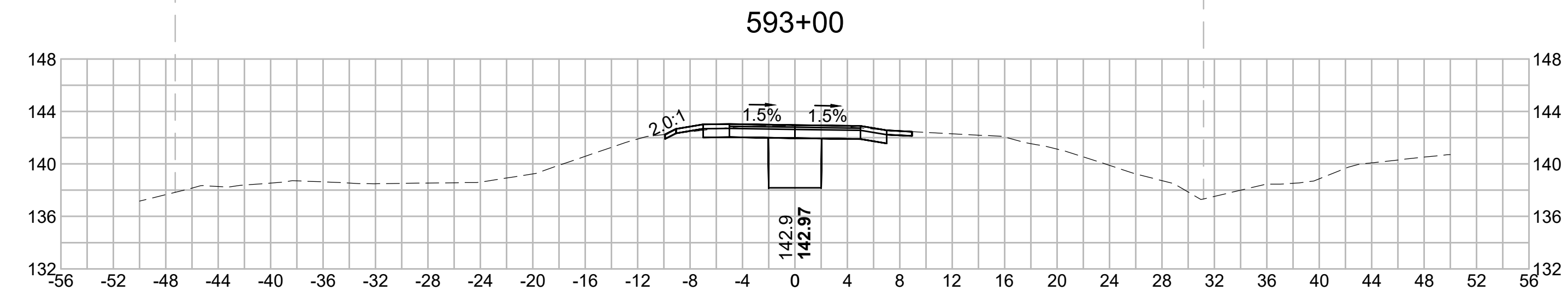
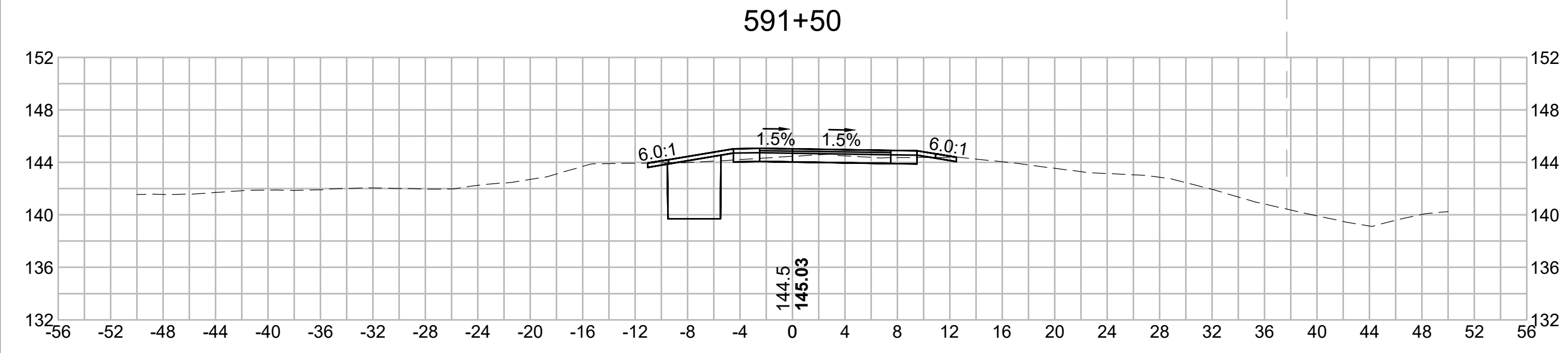
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Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.294.1770 FAX 617.924.2286

N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 317 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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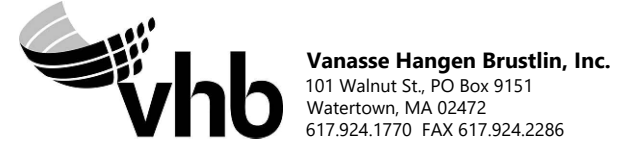
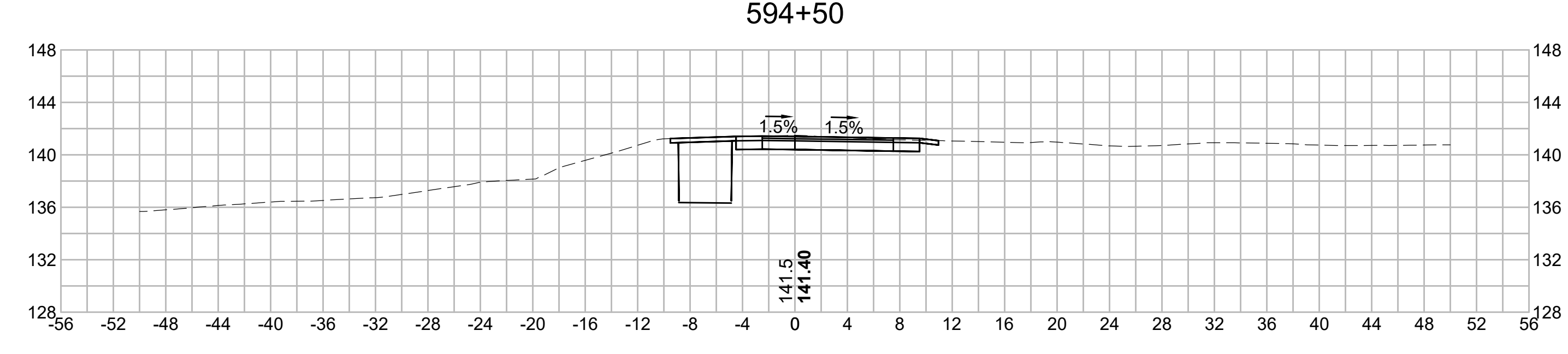
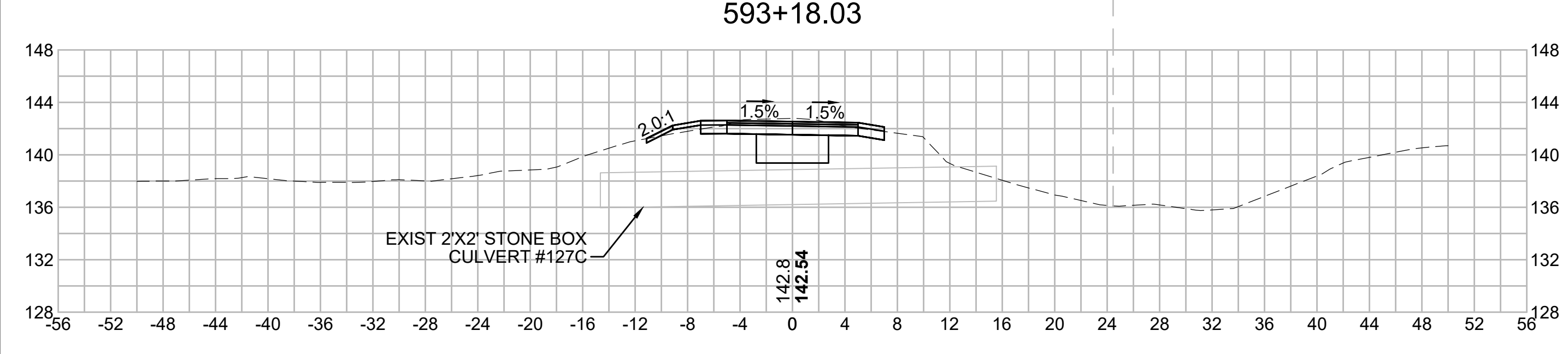
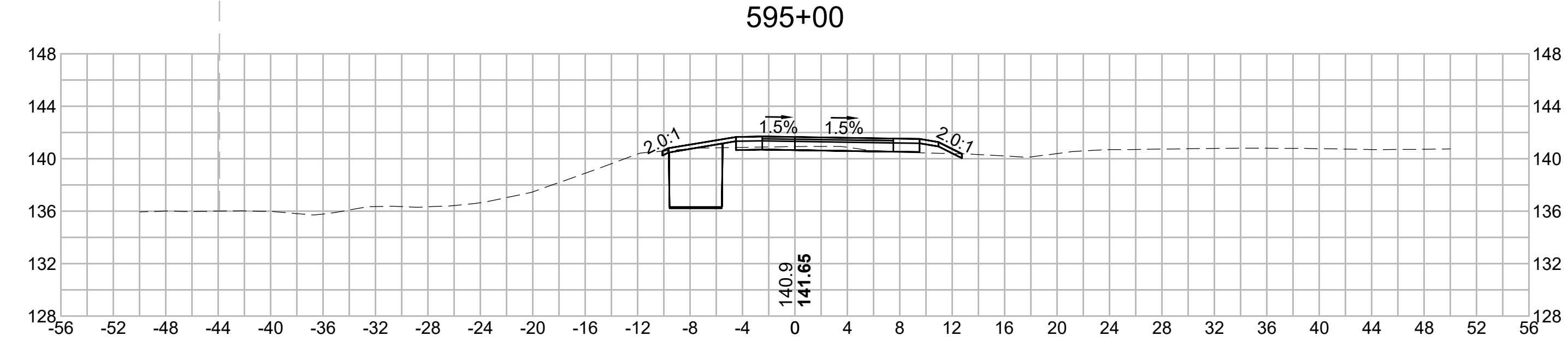
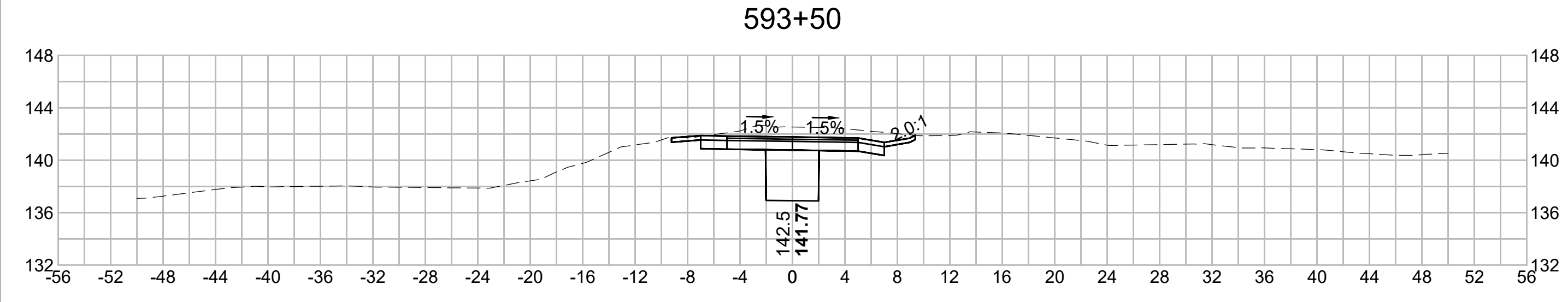
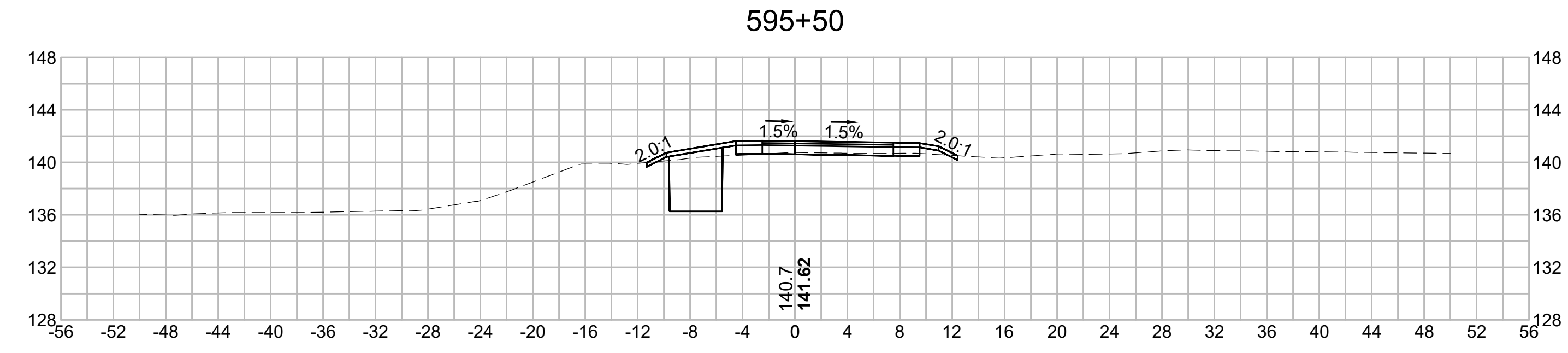
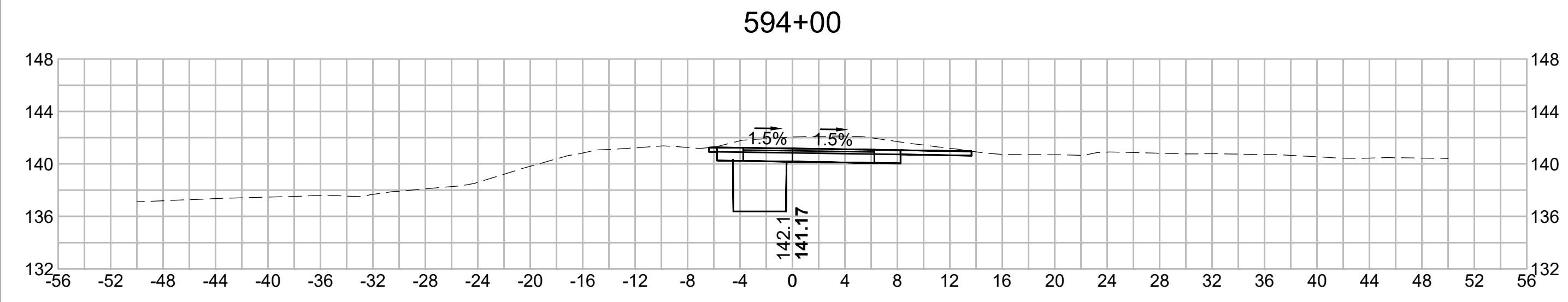
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N.O.	DESCRIPTION	BY	DATE	APPR.
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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 318 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHECKED SK	APPROVED MES
	DRAWING NO.	REV.		

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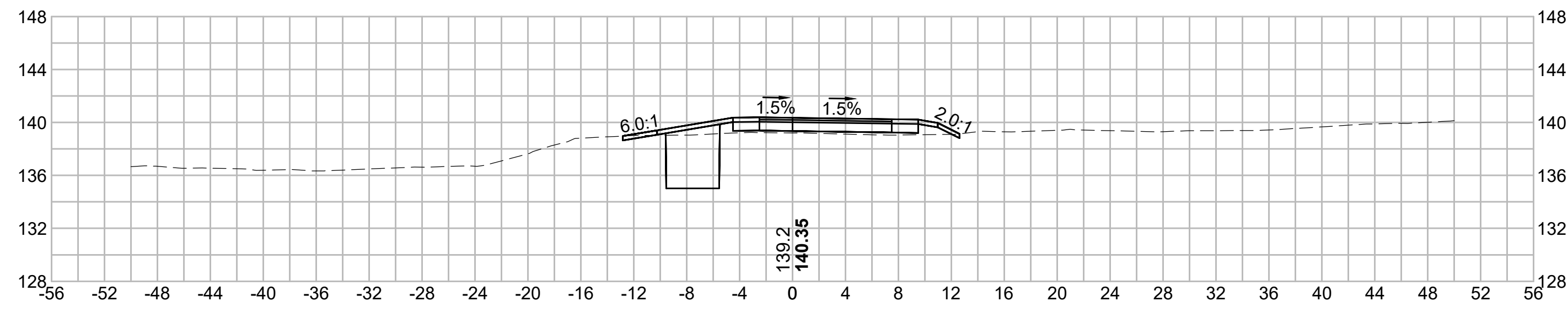
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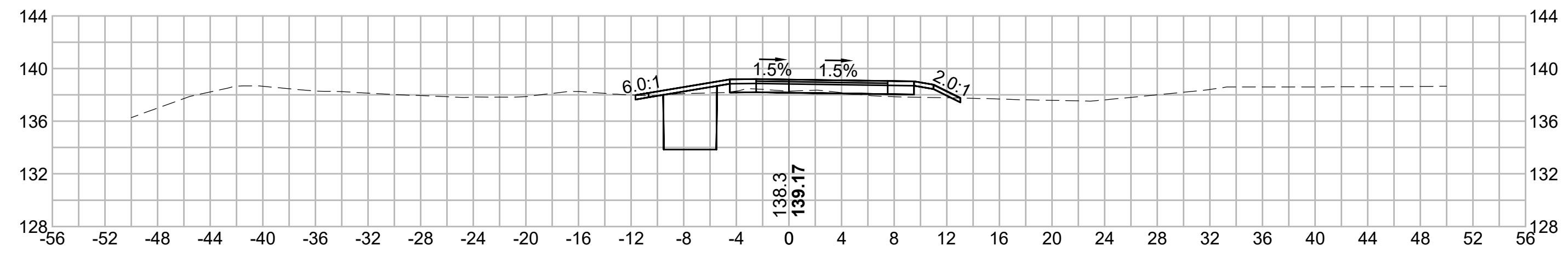
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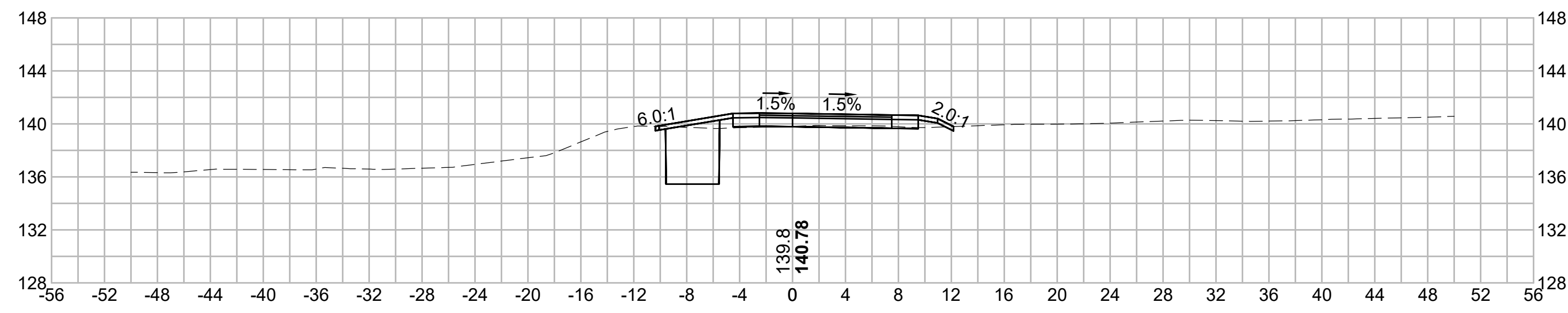
597+00



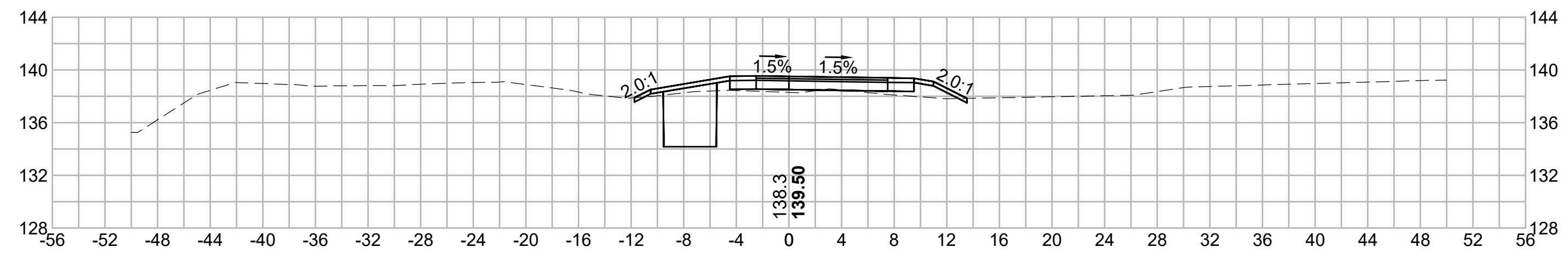
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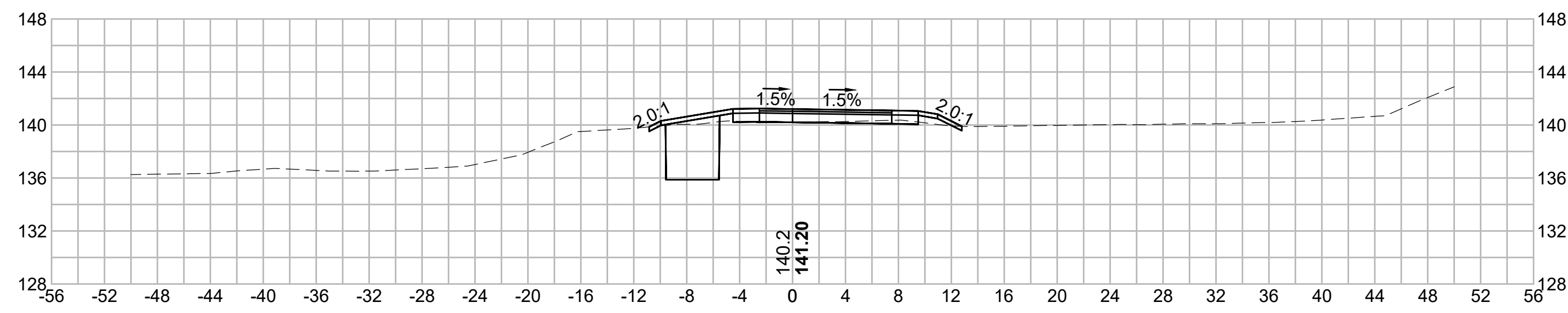
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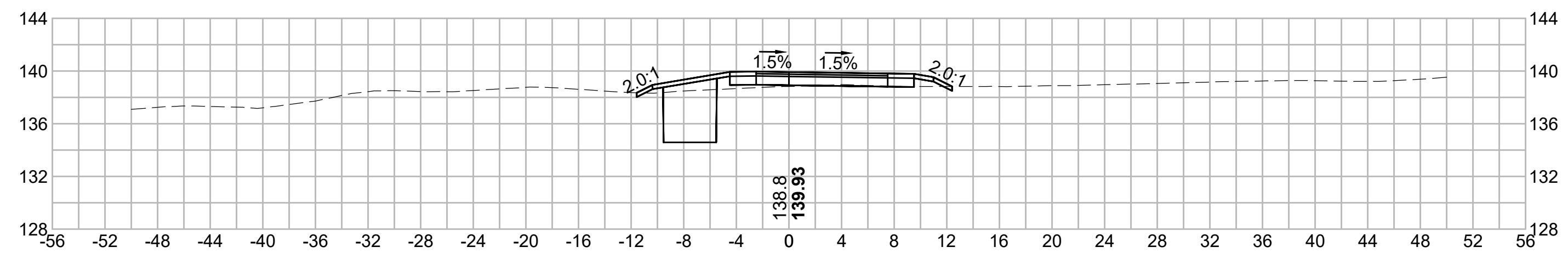
598+00



596+00



597+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
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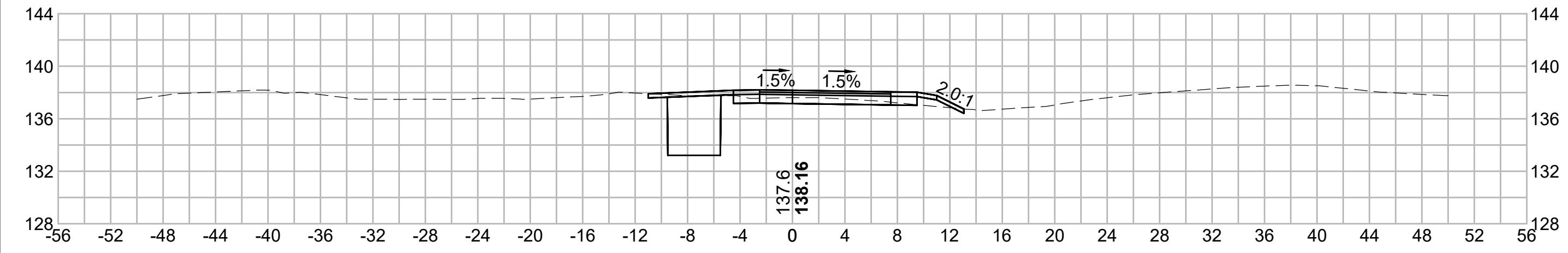
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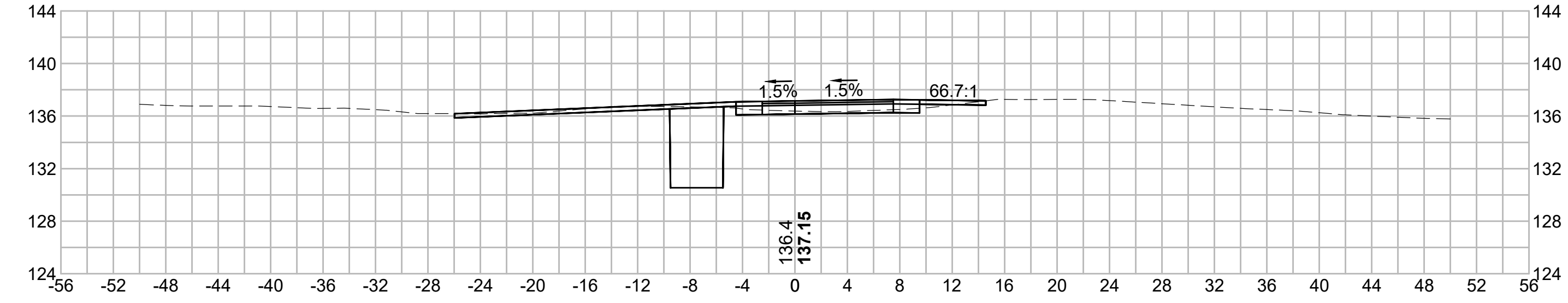
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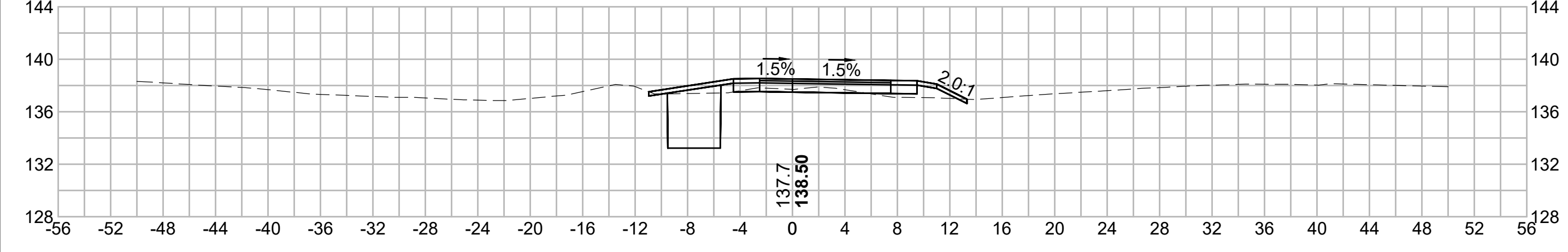
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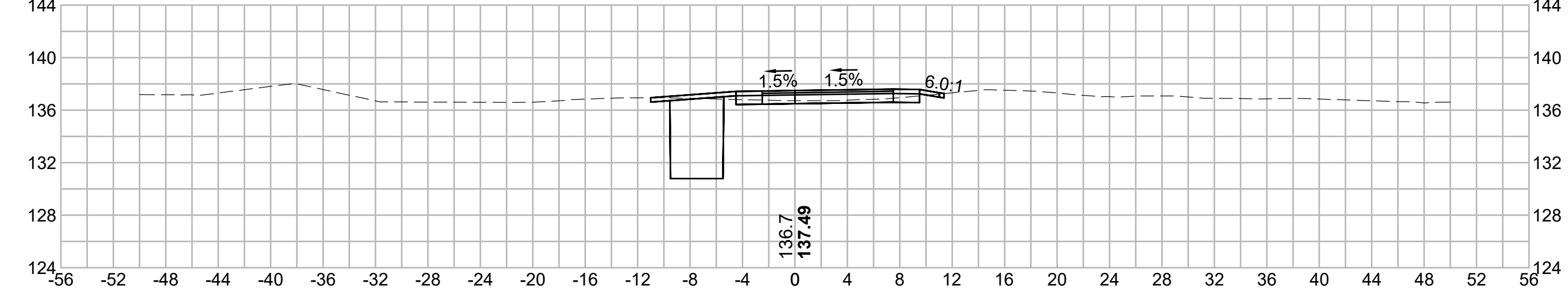
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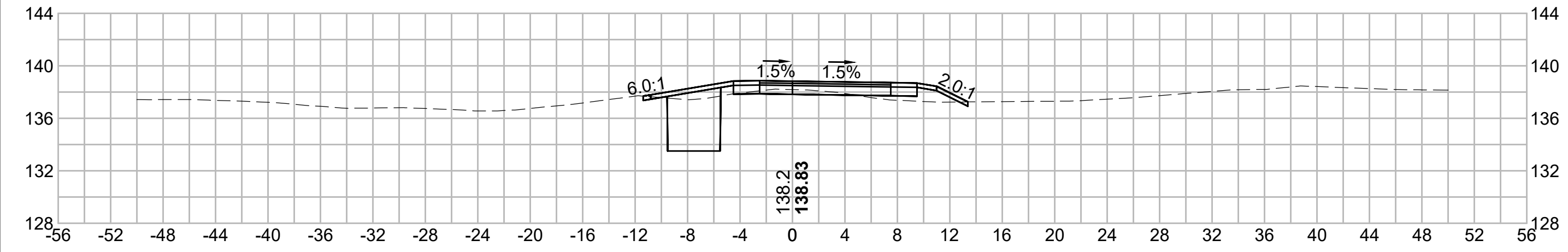
599+50



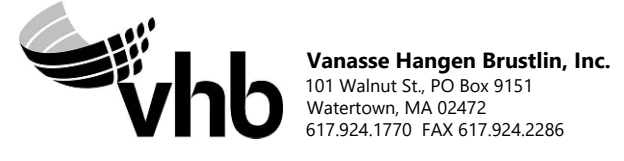
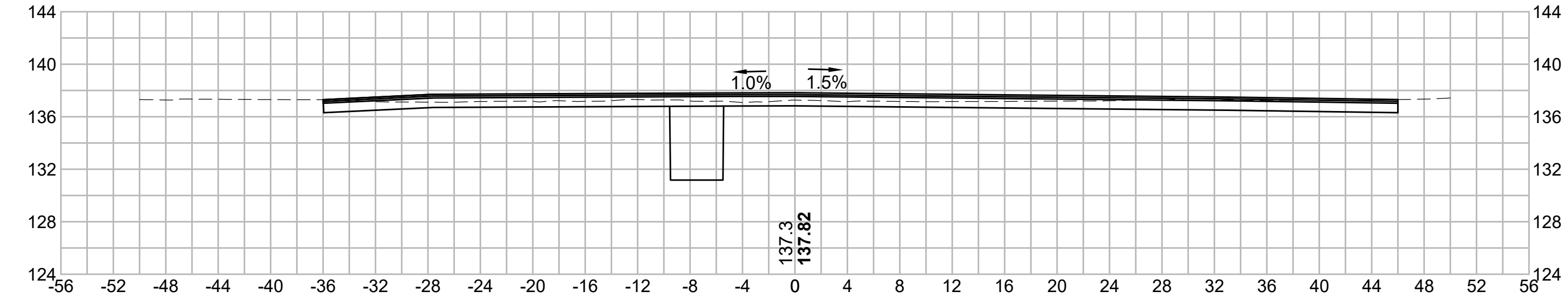
601+00



599+00



600+50



NO.		DESCRIPTION		BY		DATE		APPR.	
		REVISION							
EVERSOURCE									
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
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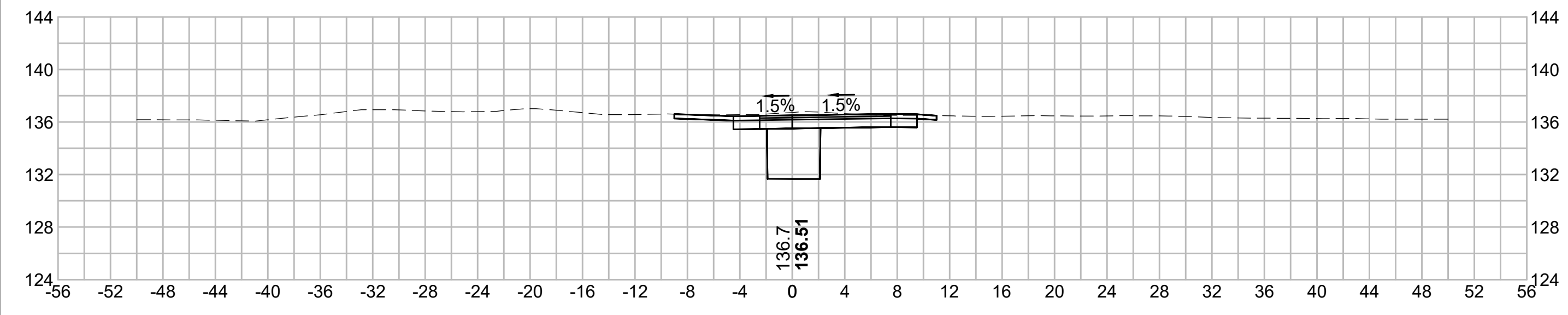
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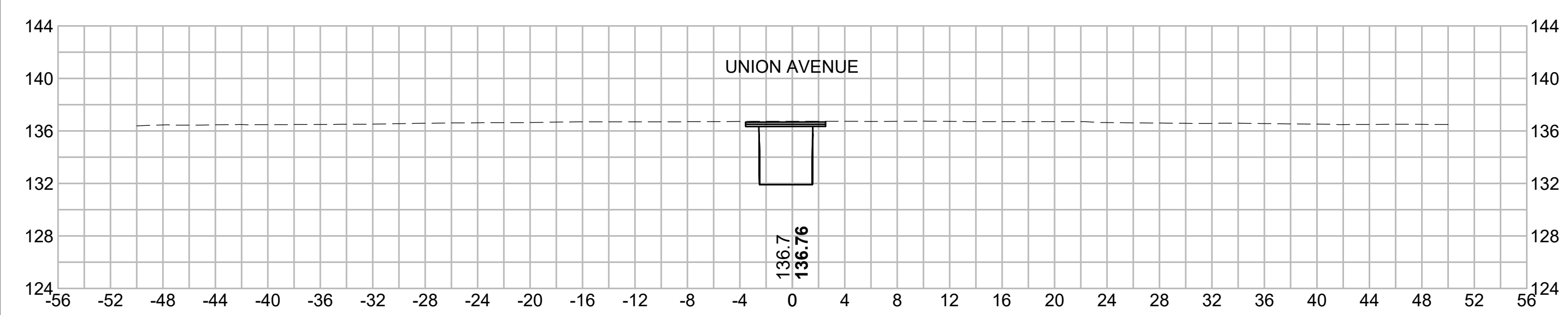
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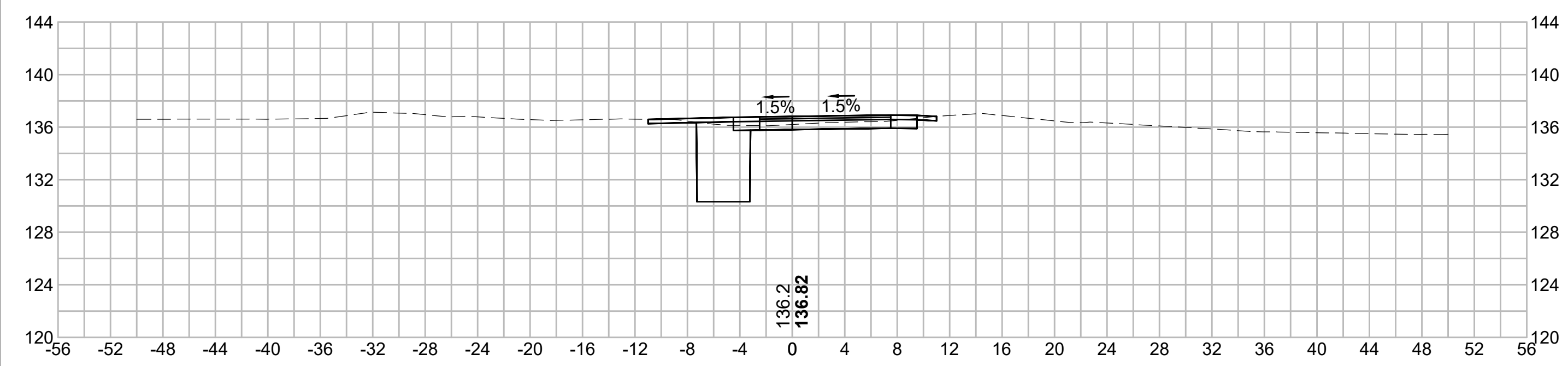
602+50



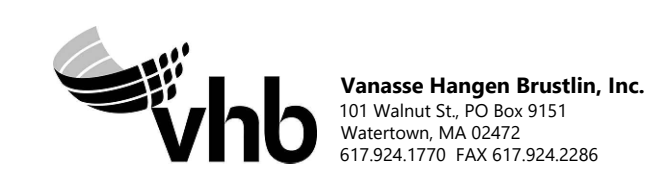
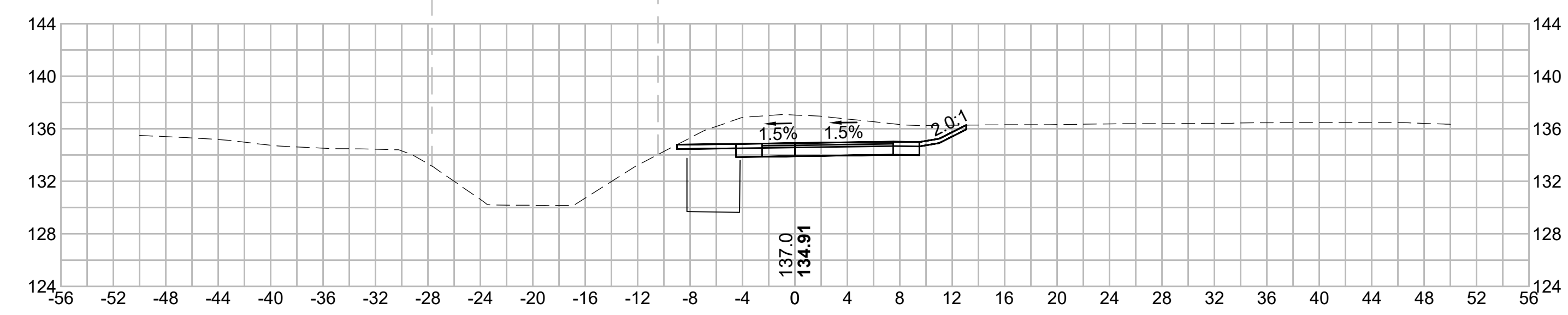
602+38.67



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603+00



N.O.	DESCRIPTION	BY	DATE	APPR.
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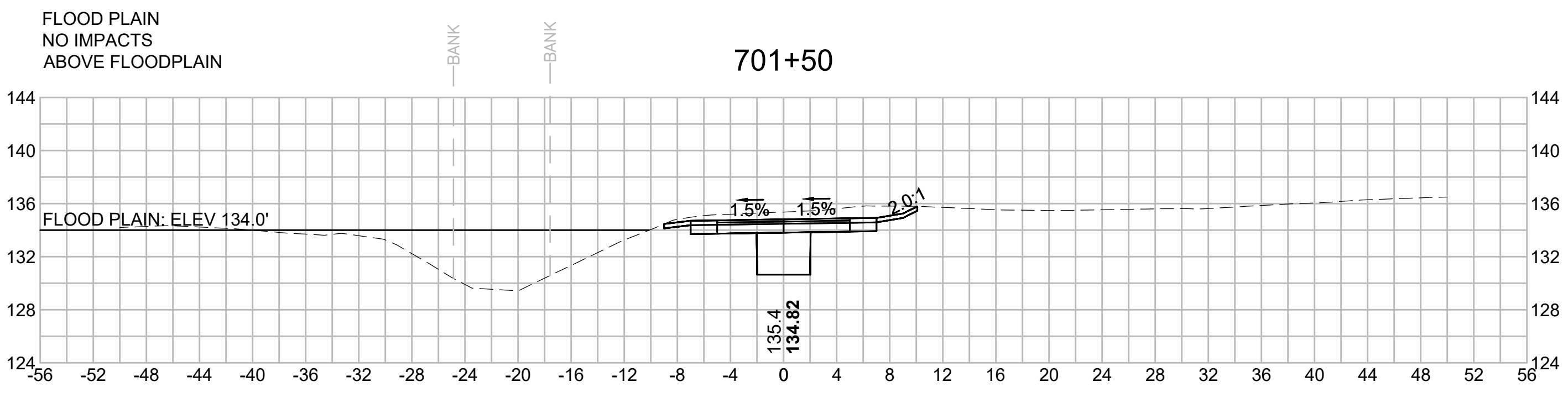
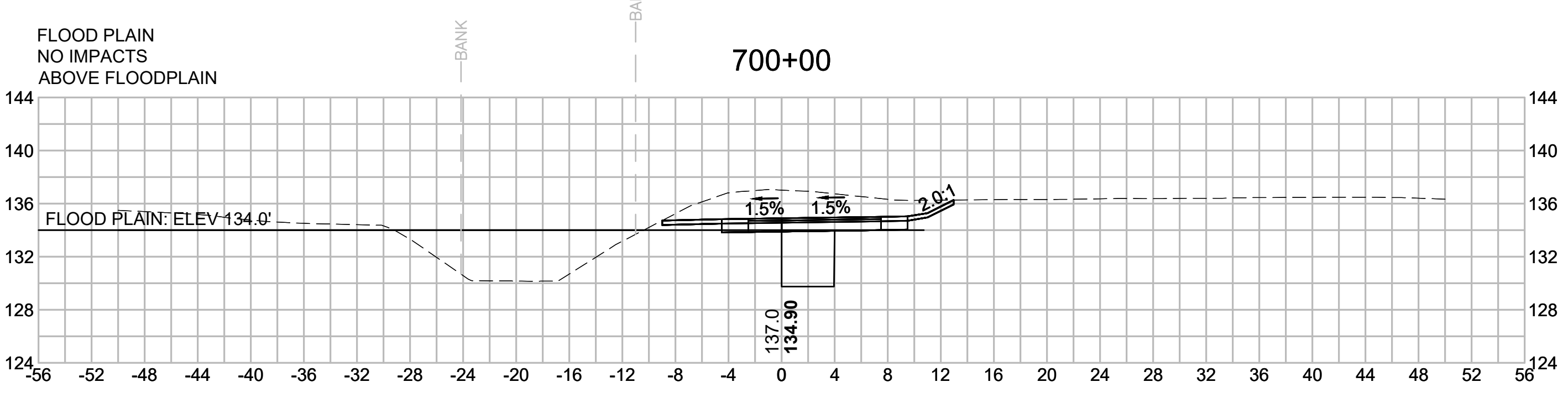
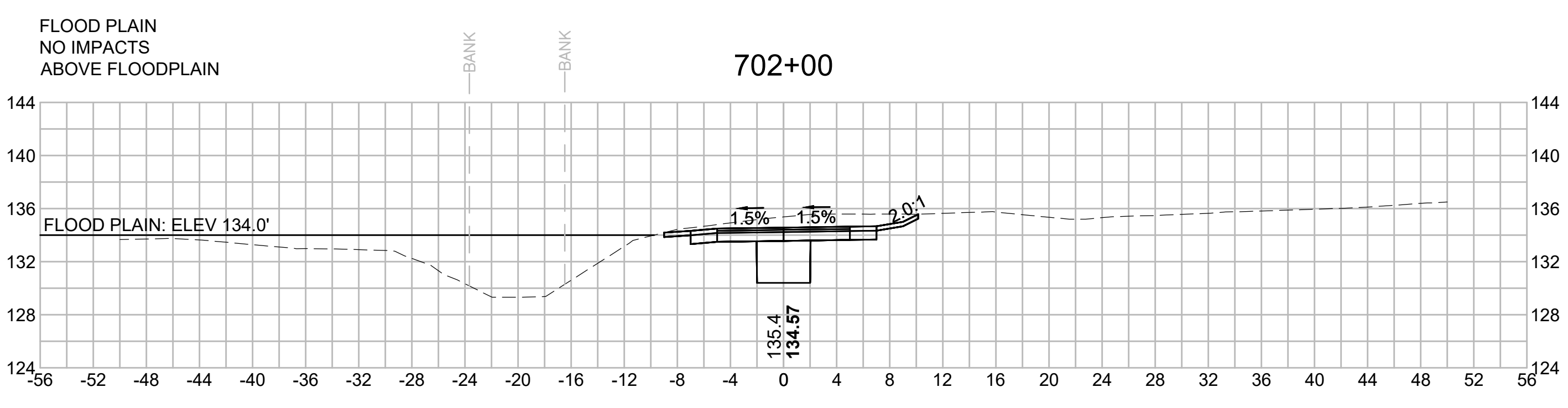
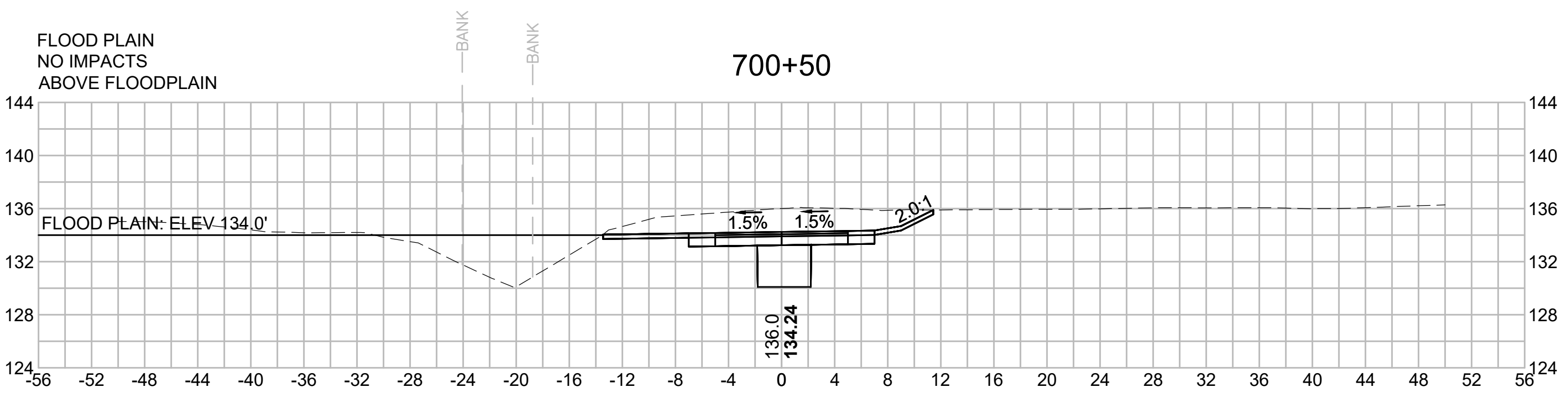
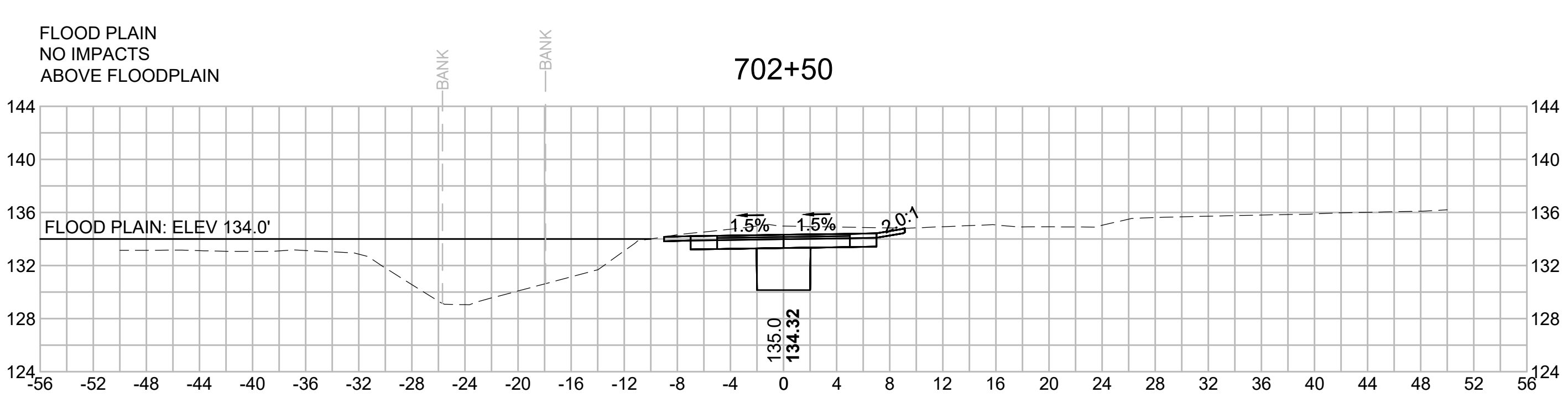
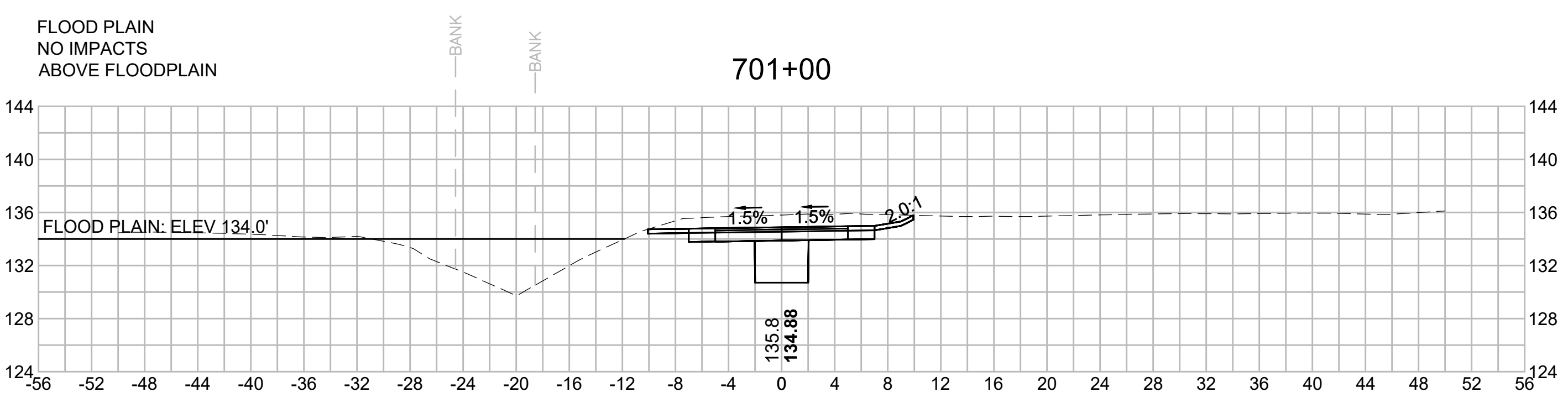
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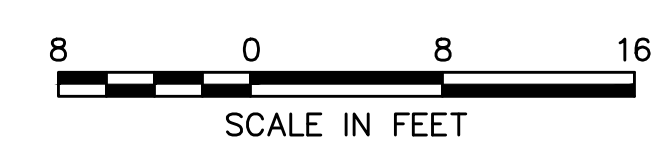
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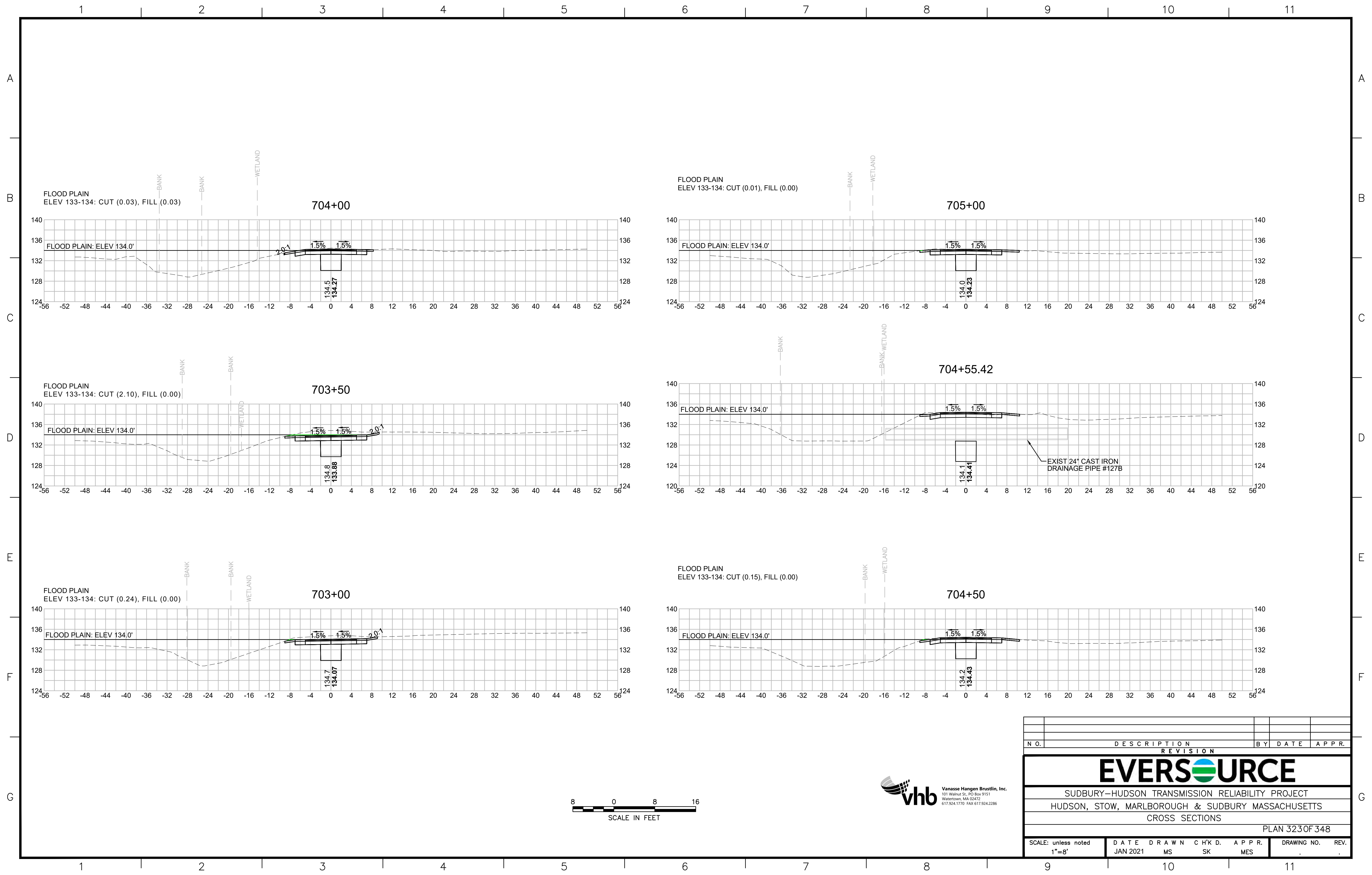
BLSF CROSSING STA 700 TO STA 740 - FEMA ZONE AE - TRIBUTARY TO HOP BROOK AND HOP BROOK
FEMA ELEVATION VARIES

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



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1 2 3 4 5 6 7 8 9 10 11

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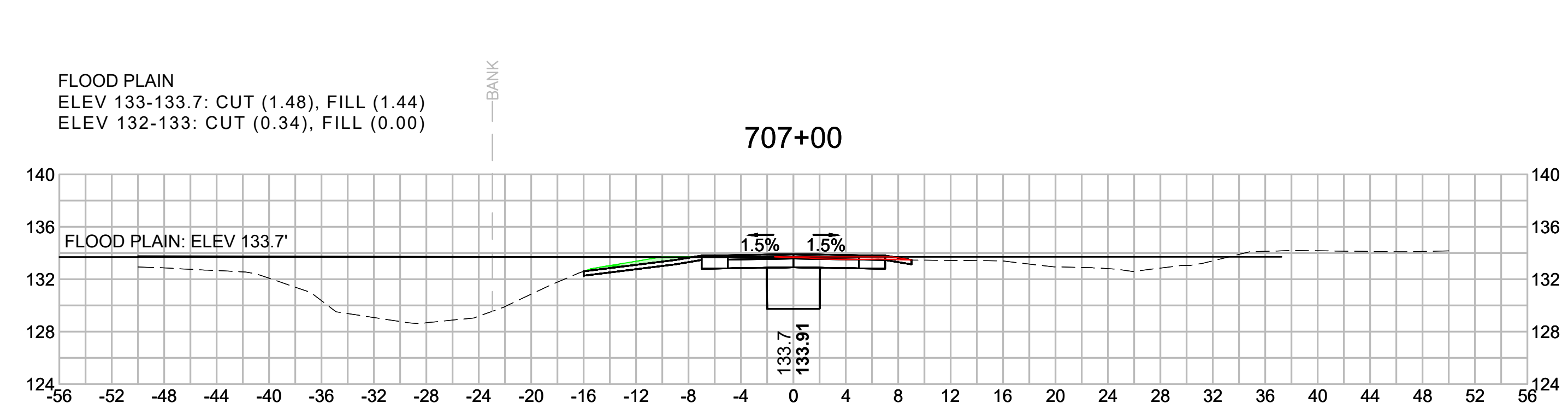
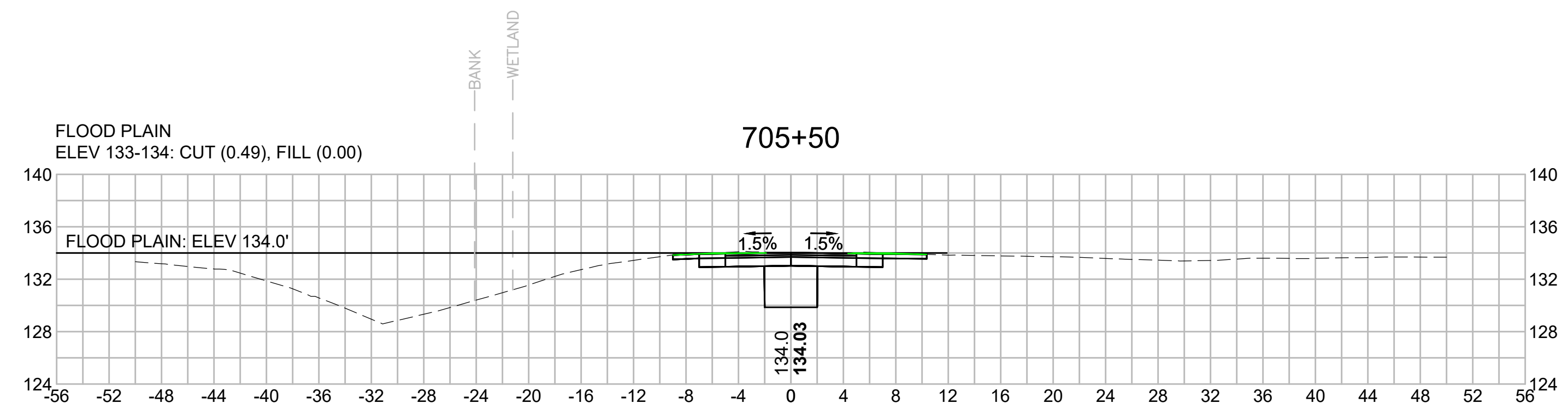
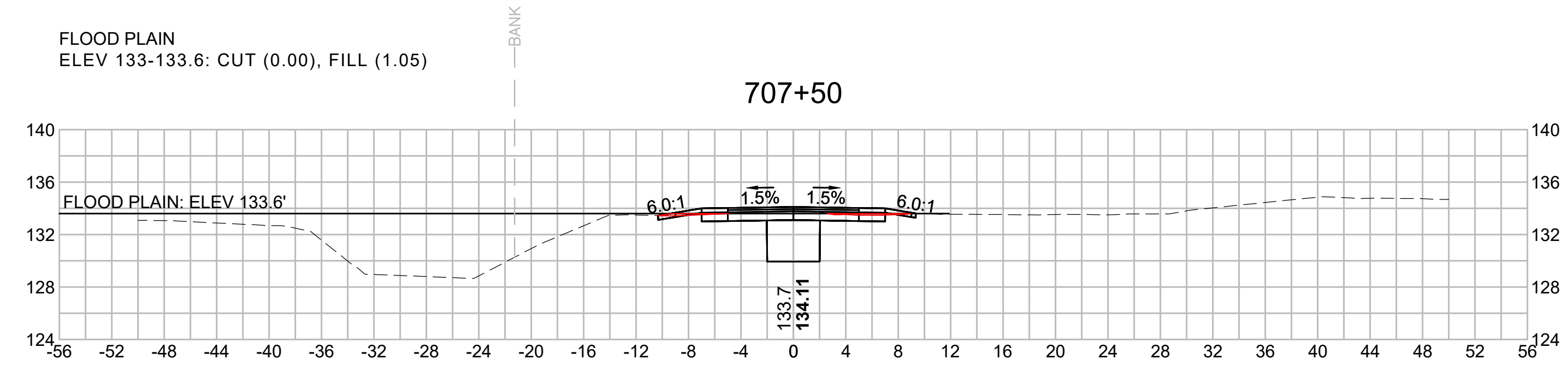
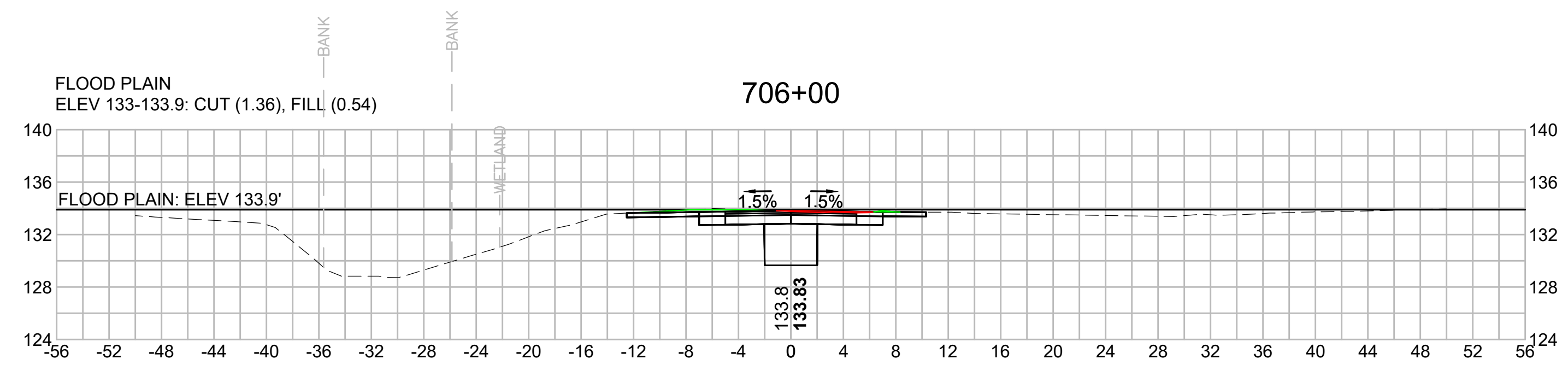
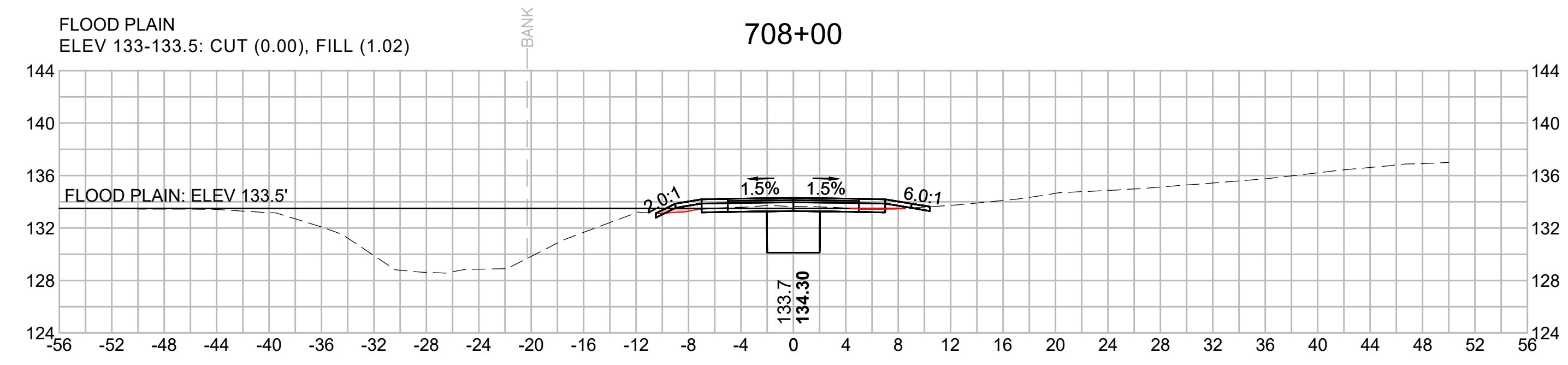
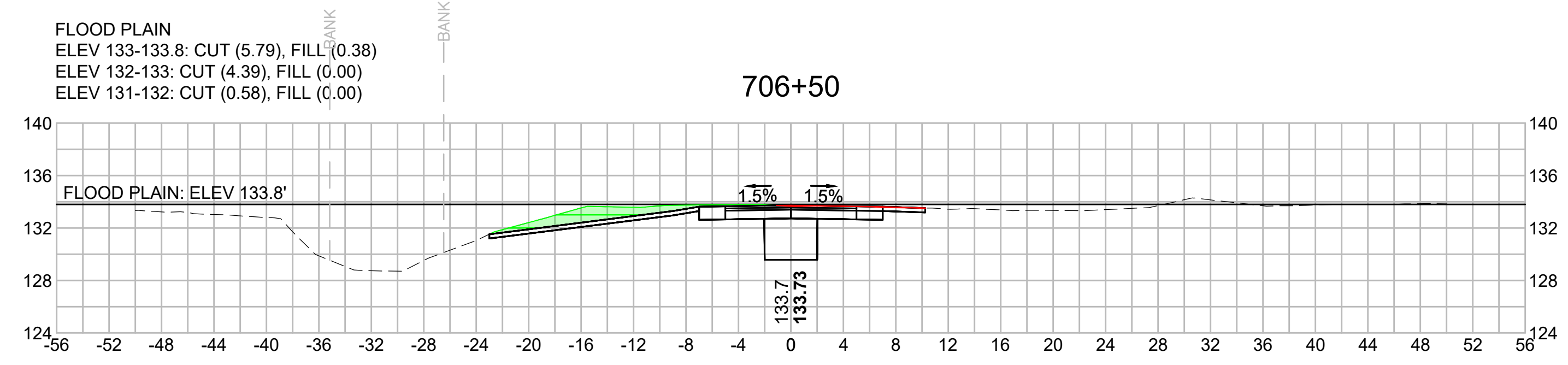
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N.O.	DESCRIPTION	BY	DATE	APPR.
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EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
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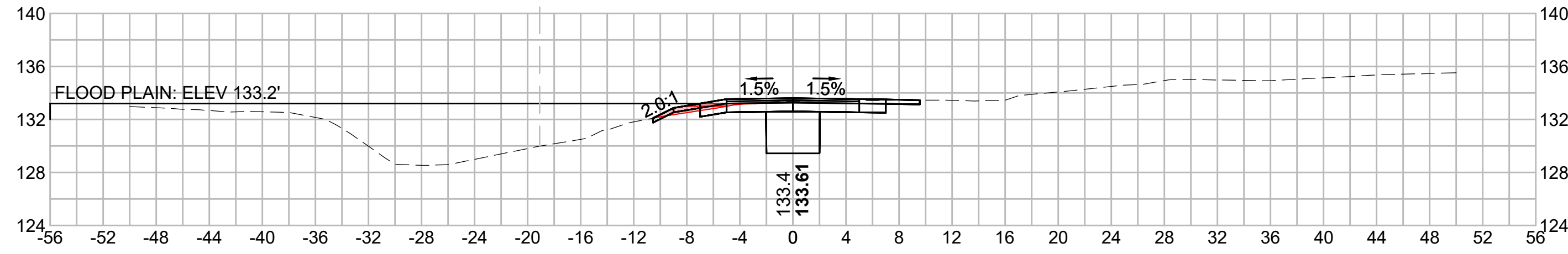
1 2 3 4 5 6 7 8 9 10 11

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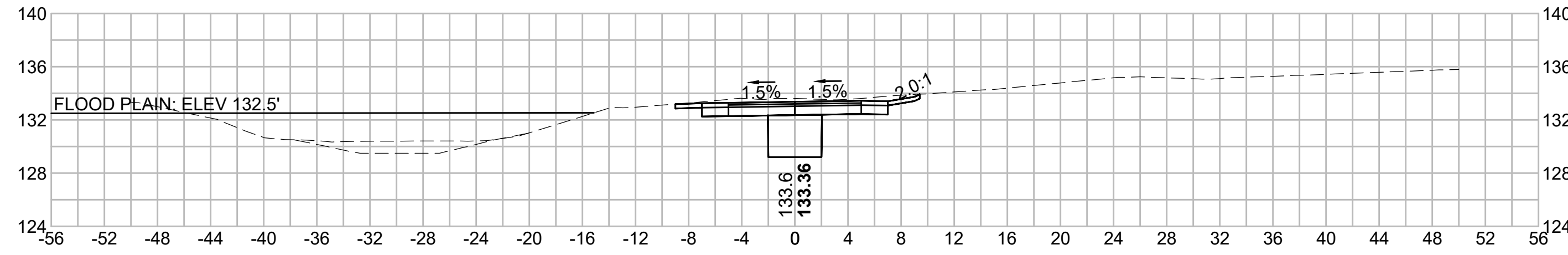
FLOOD PLAIN
 ELEV 133-133.2: CUT (0.00), FILL (0.68)
 ELEV 132-133: CUT (0.00), FILL (1.65)

709+50



FLOOD PLAIN
 NO IMPACTS
 ABOVE FLOODPLAIN

710+75

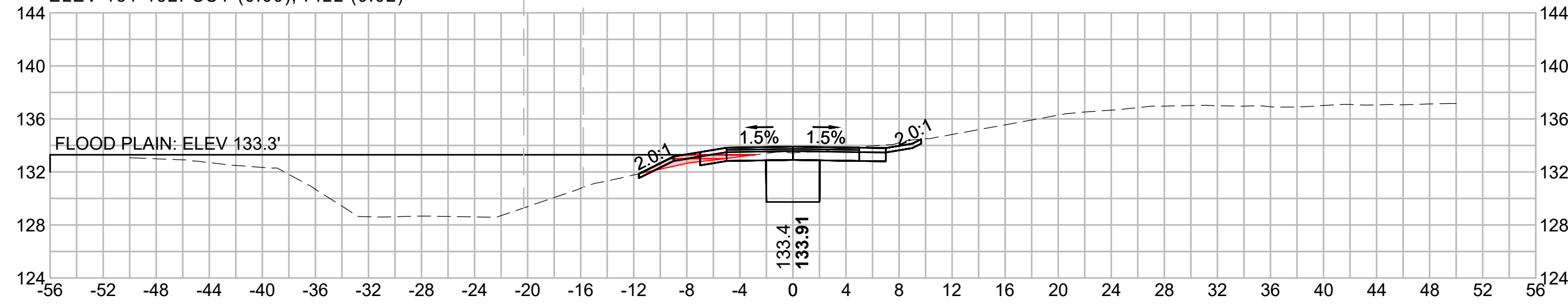


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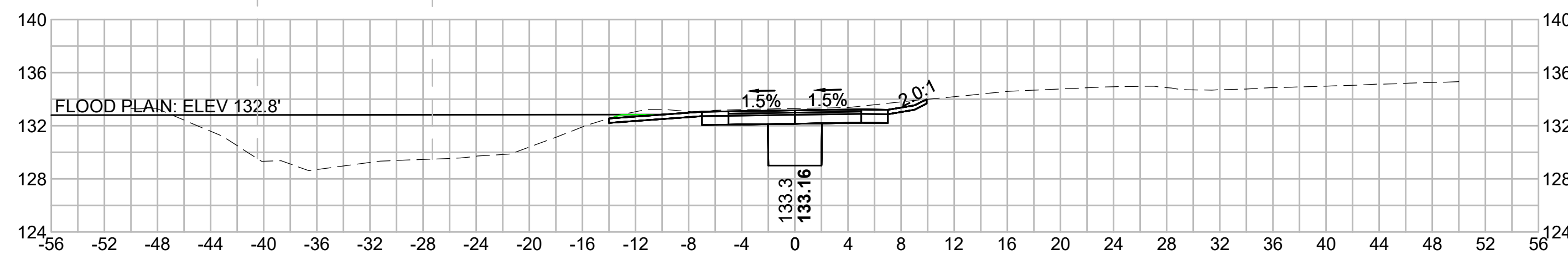
FLOOD PLAIN
 ELEV 133-133.3: CUT (0.00), FILL (1.47)
 ELEV 132-133: CUT (0.00), FILL (1.85)
 ELEV 131-132: CUT (0.00), FILL (0.02)

709+00



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

710+50

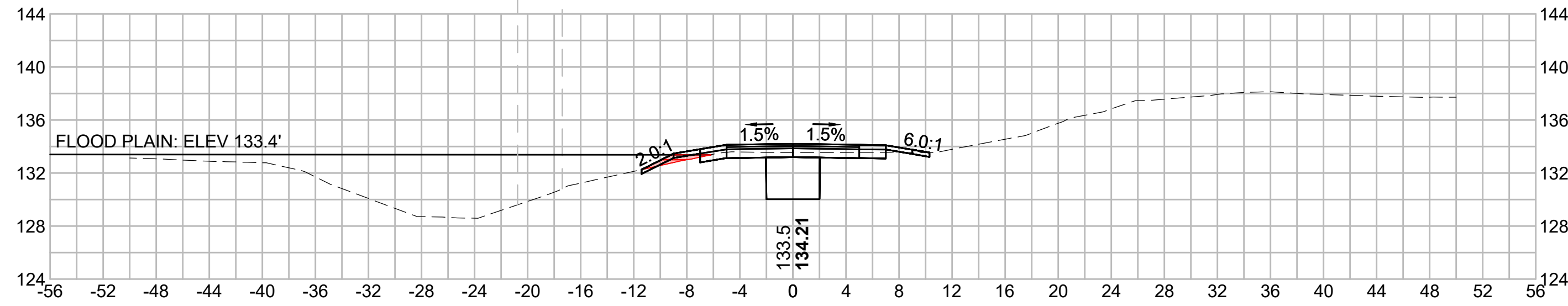


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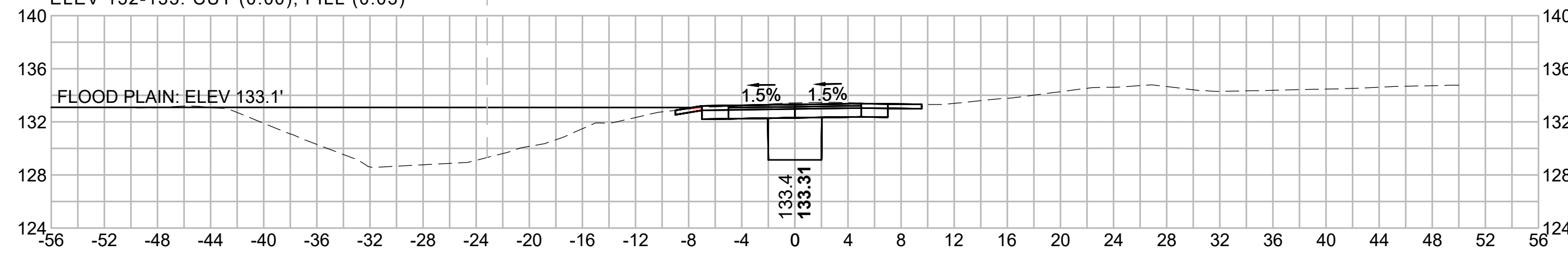
FLOOD PLAIN
 ELEV 133-133.6: CUT (0.00), FILL (0.96)
 ELEV 132-133: CUT (0.00), FILL (0.68)

708+50



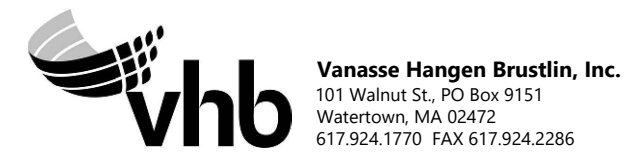
FLOOD PLAIN
 ELEV 133-133.1: CUT (0.00), FILL (0.04)
 ELEV 132-133: CUT (0.00), FILL (0.03)

710+00

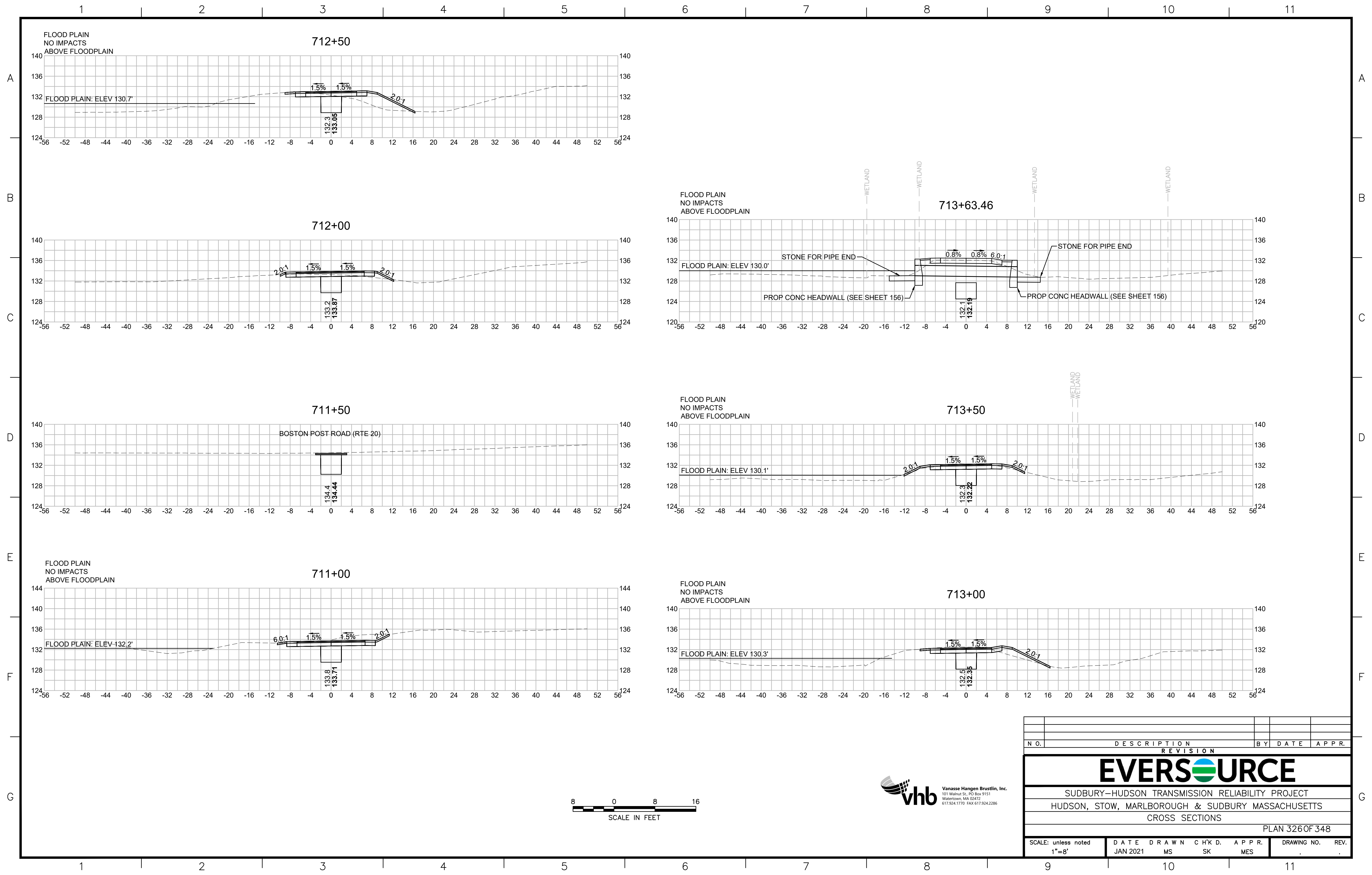


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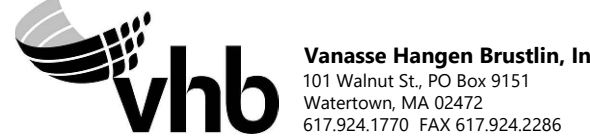
N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
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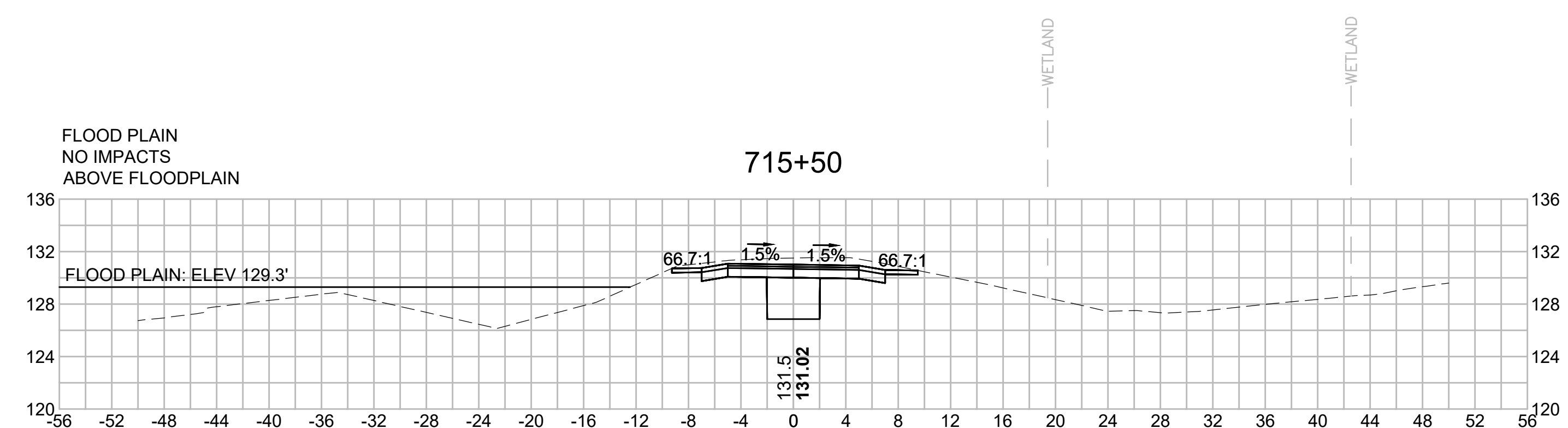
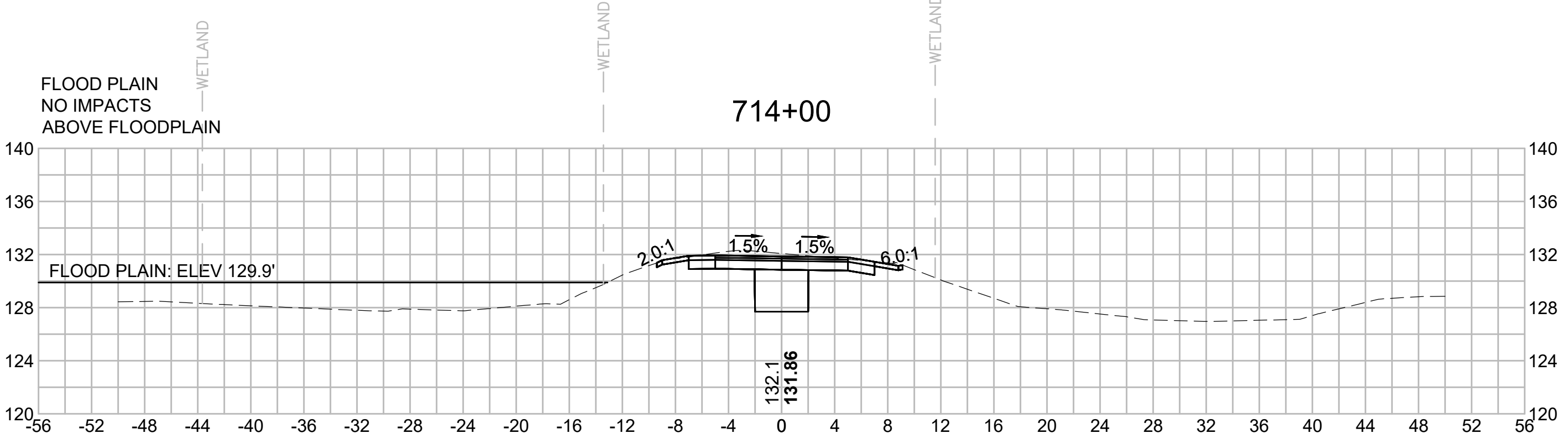
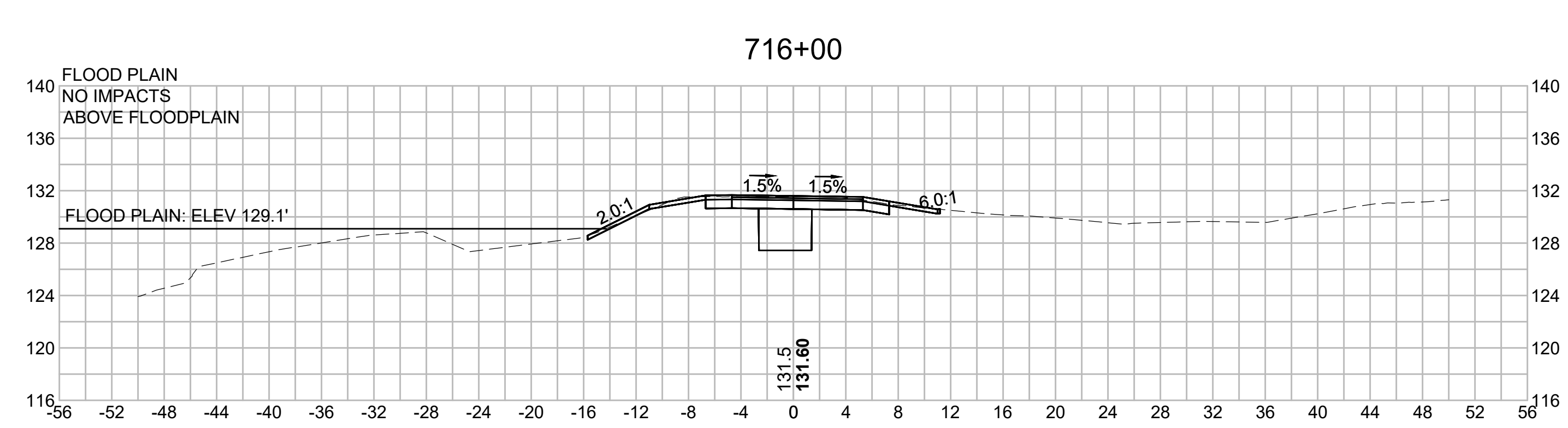
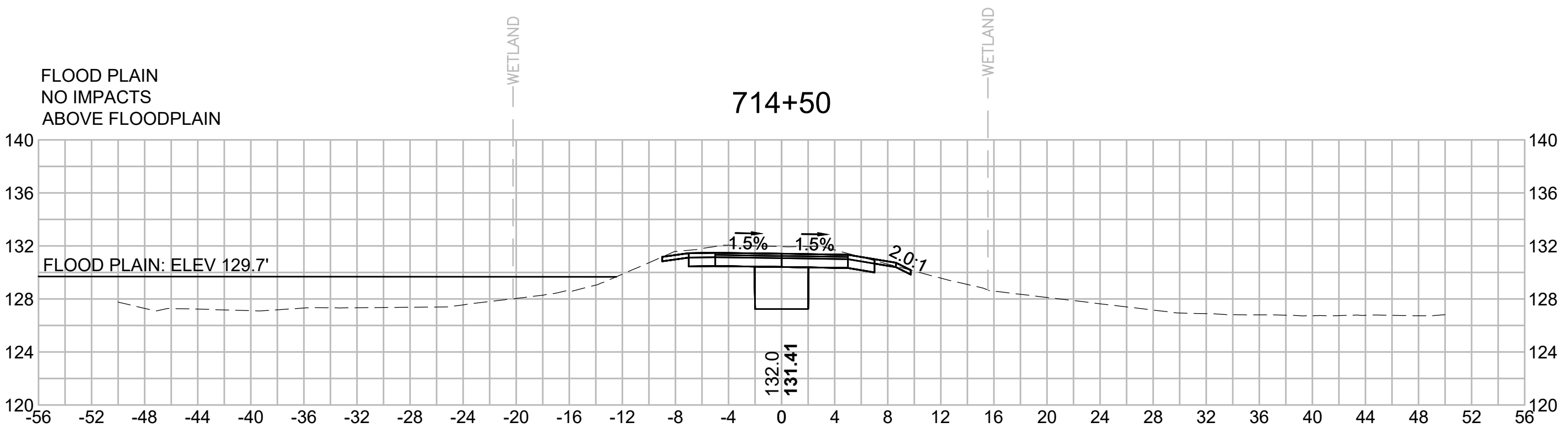
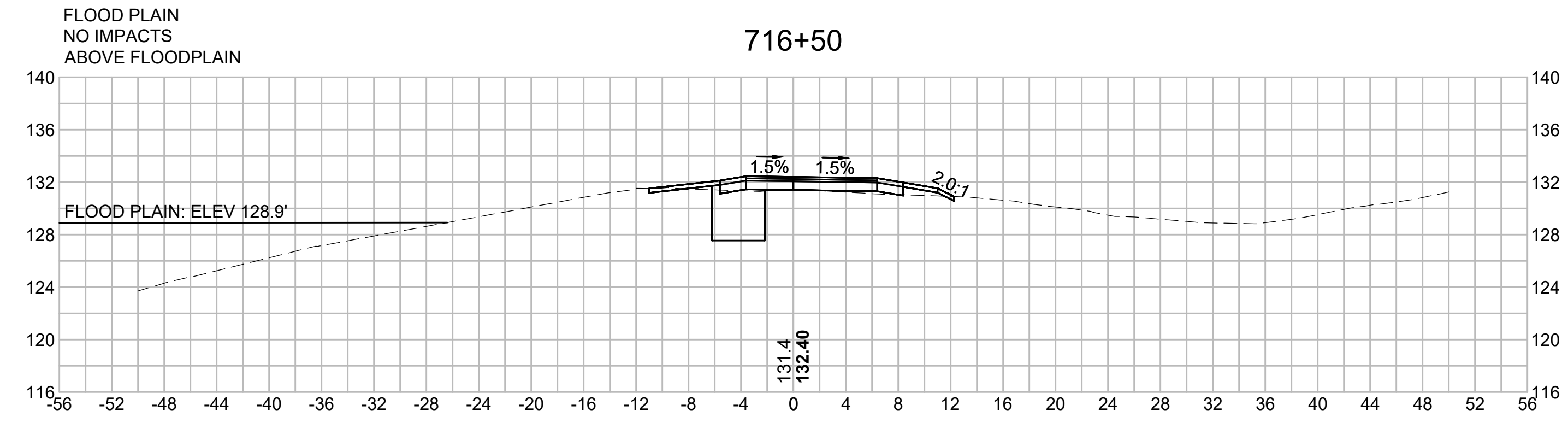
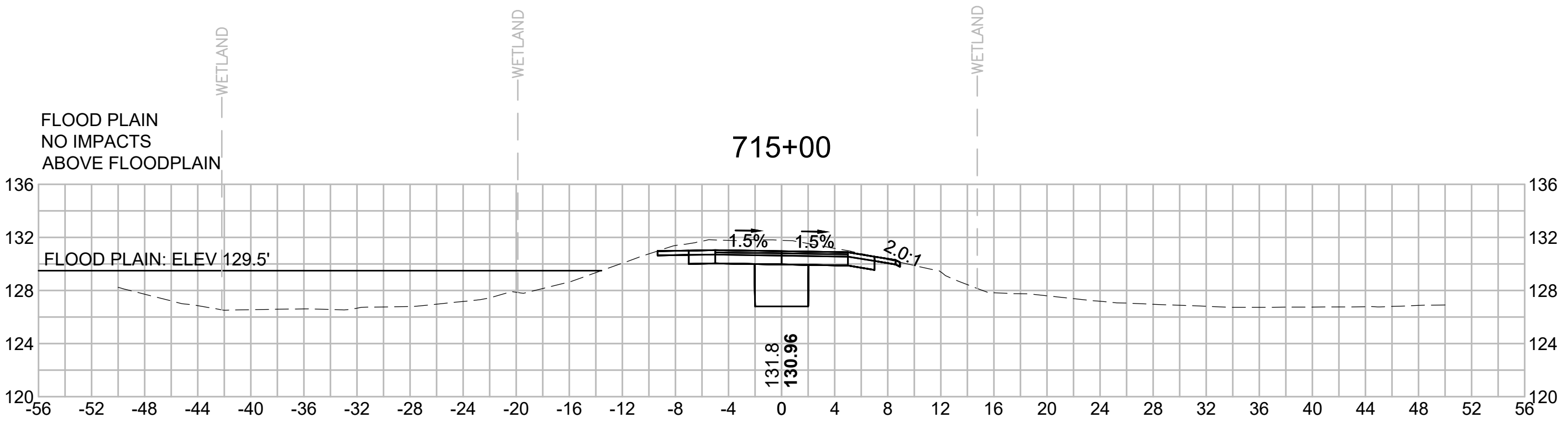
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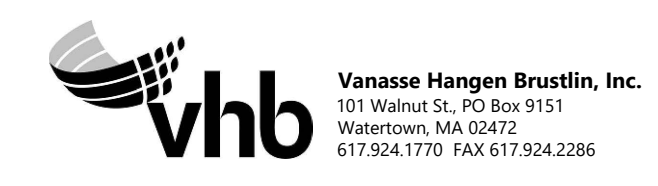
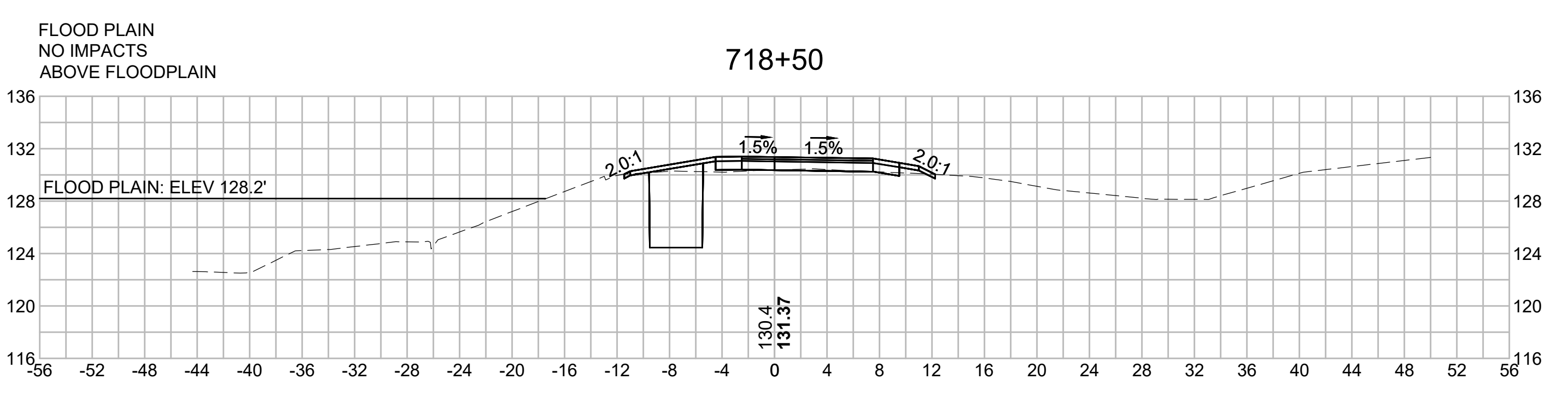
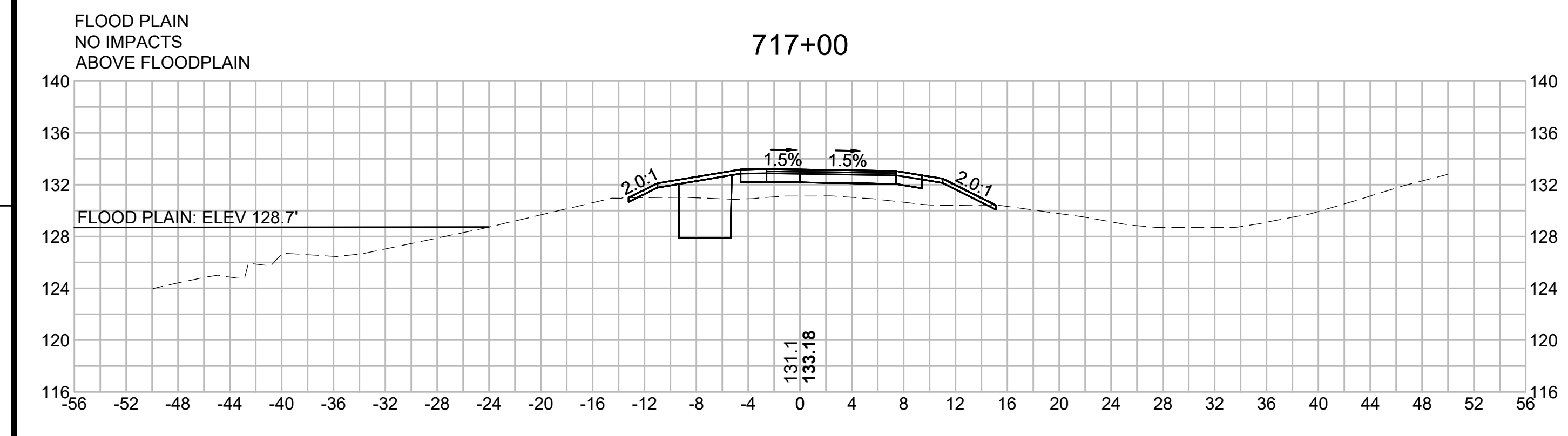
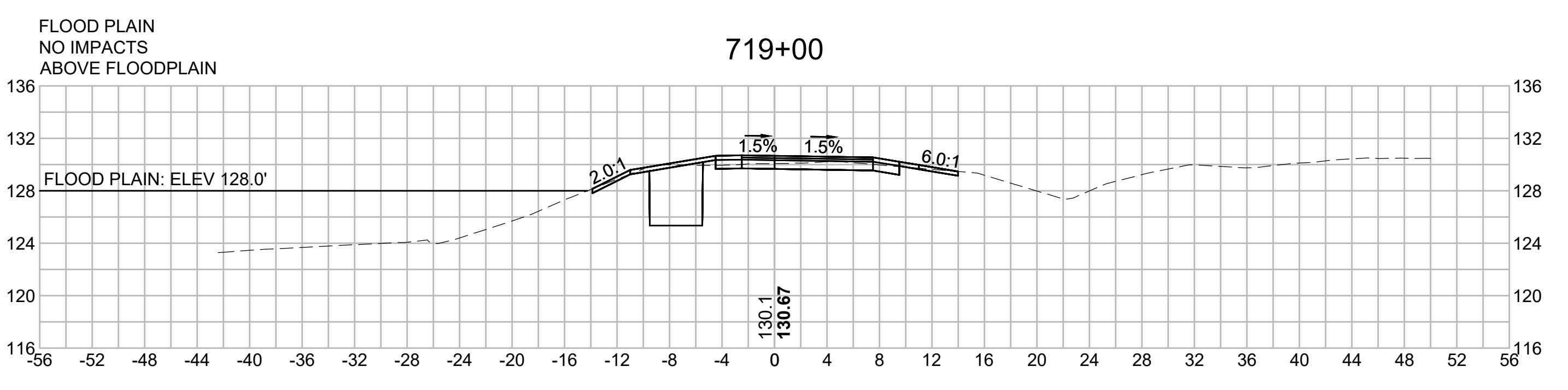
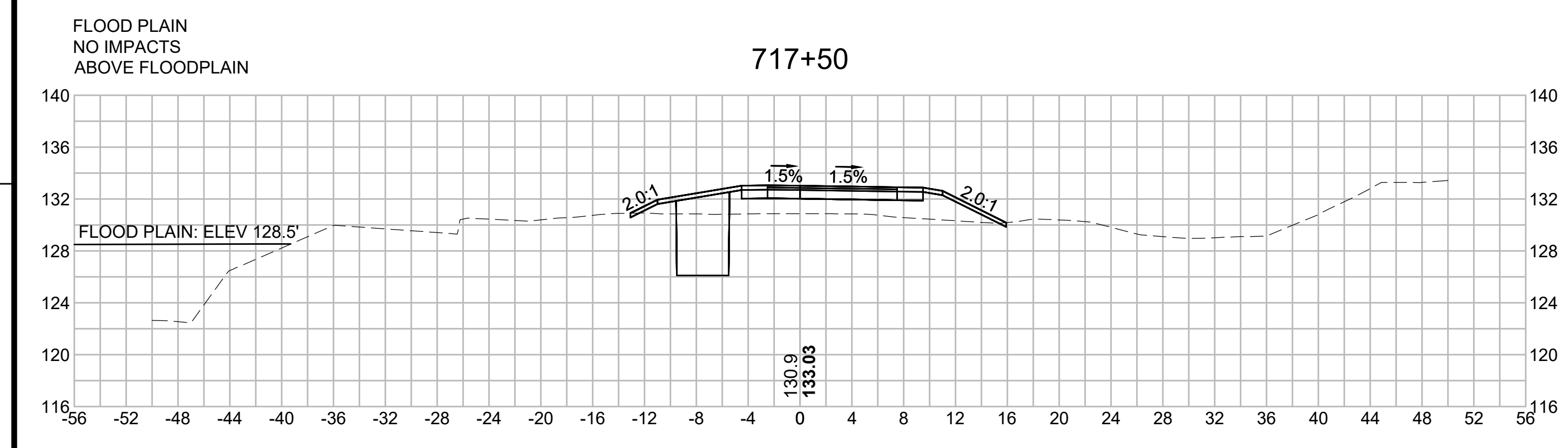
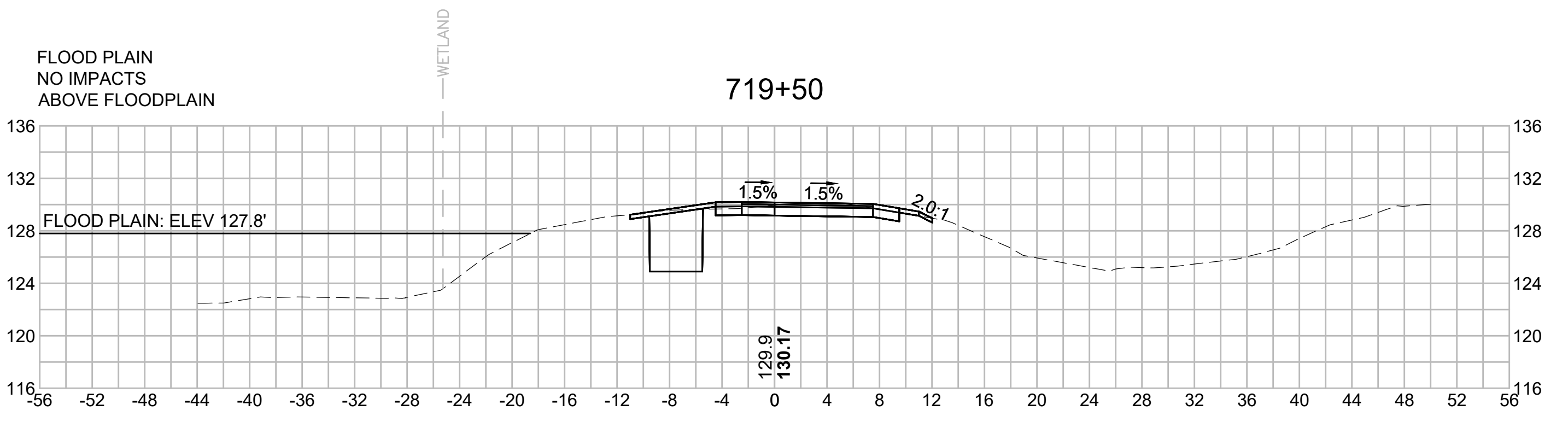
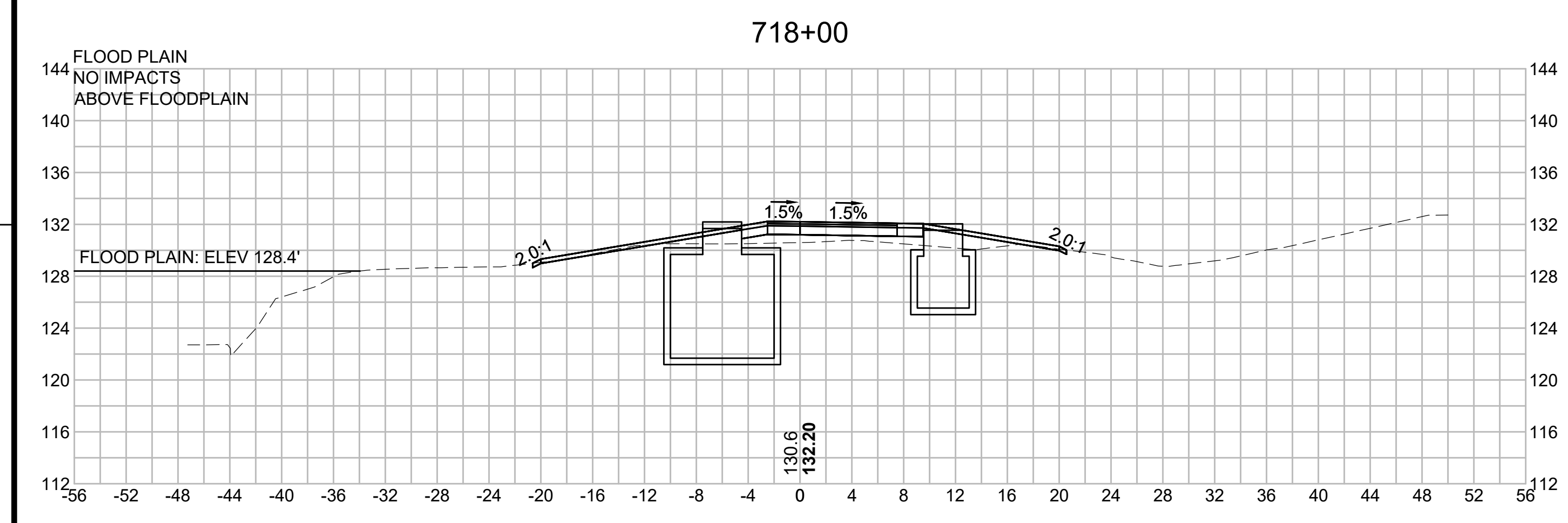
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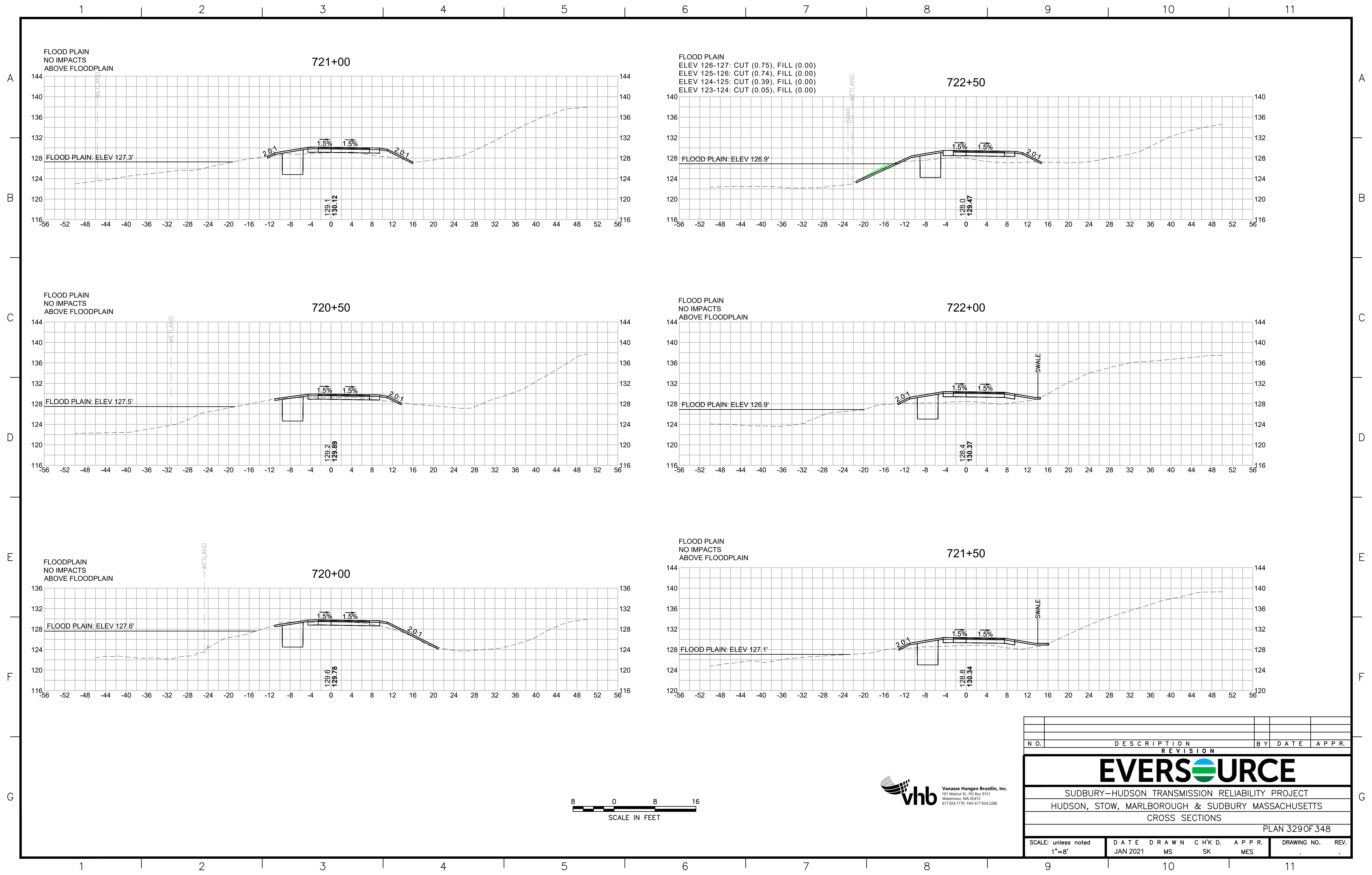
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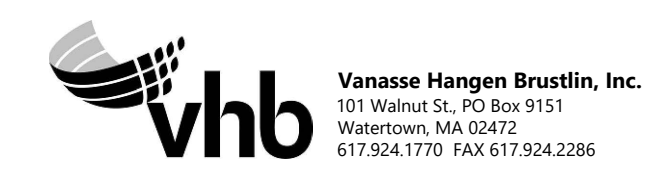
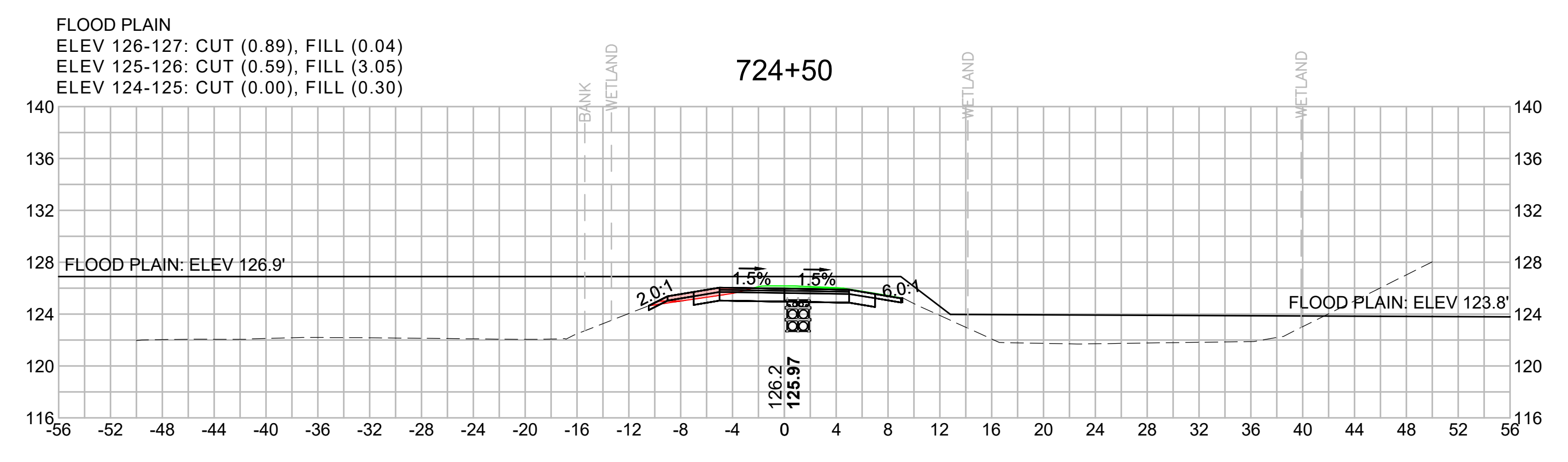
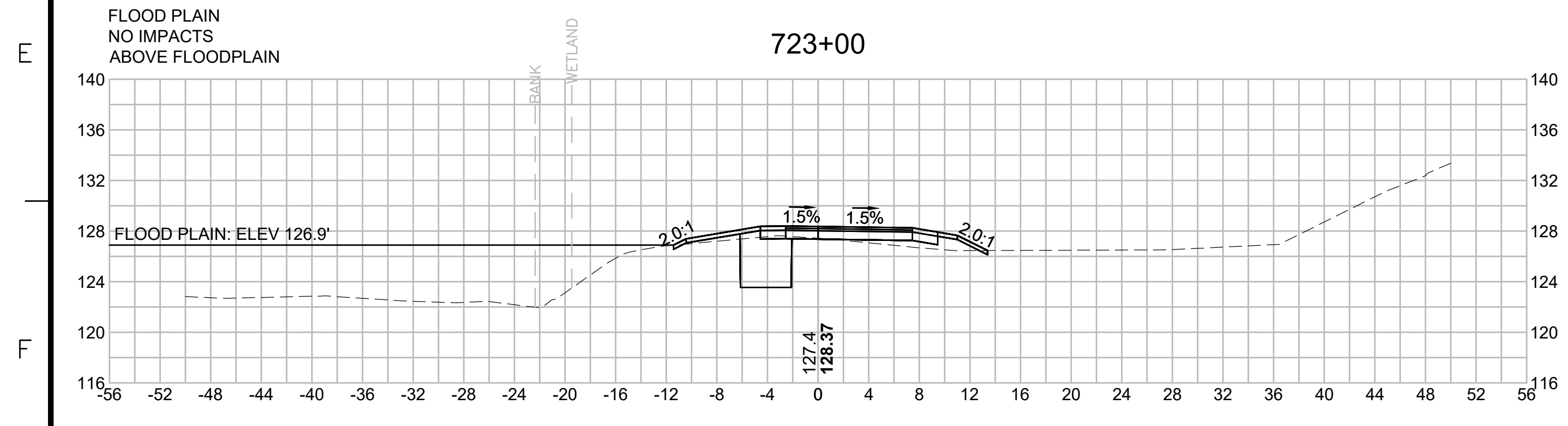
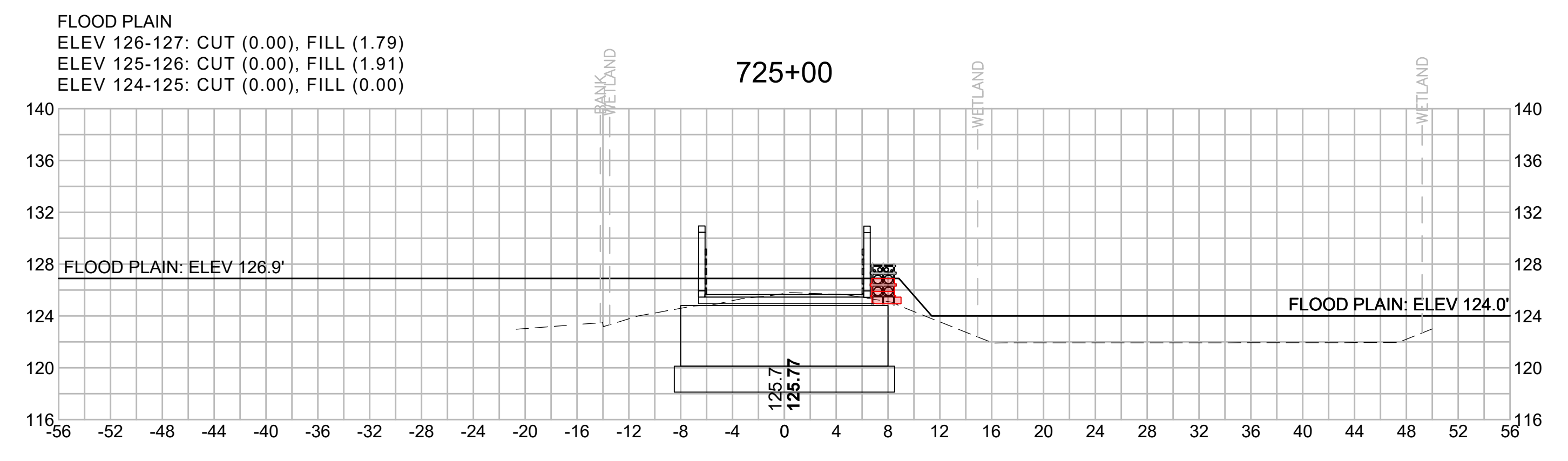
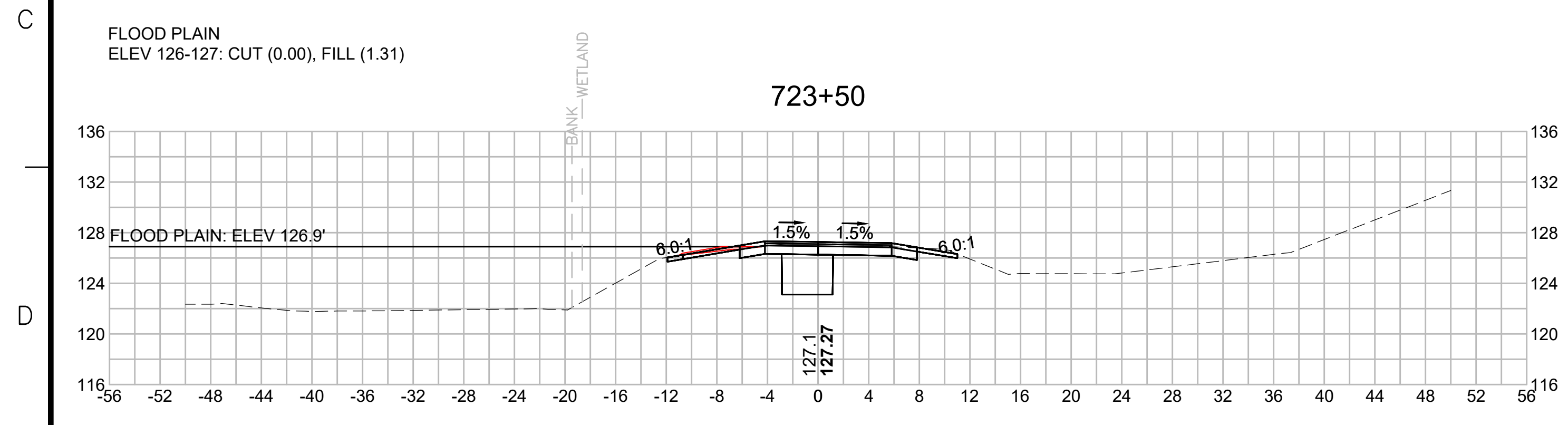
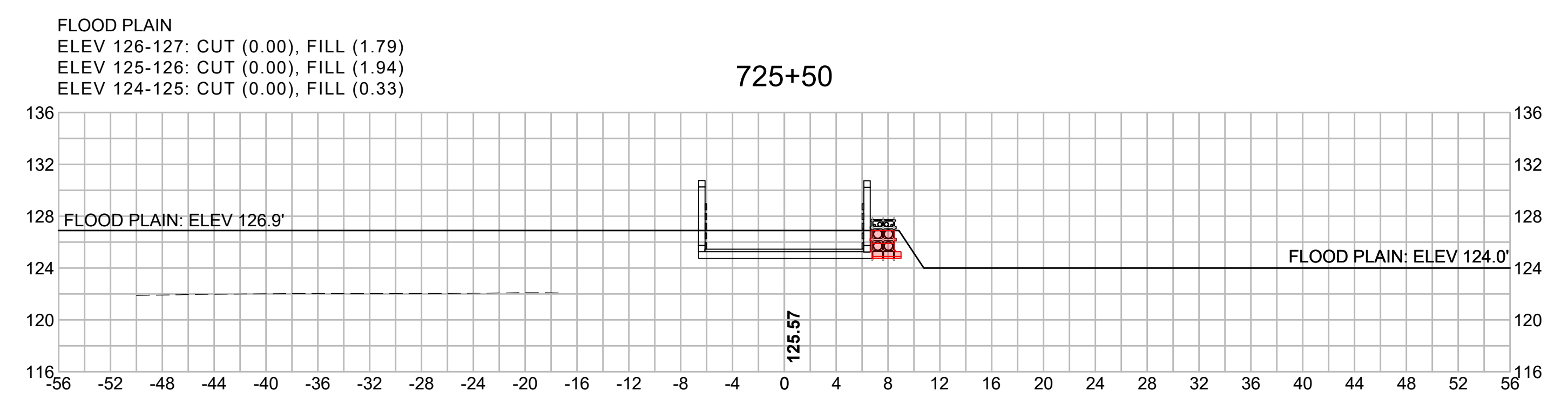
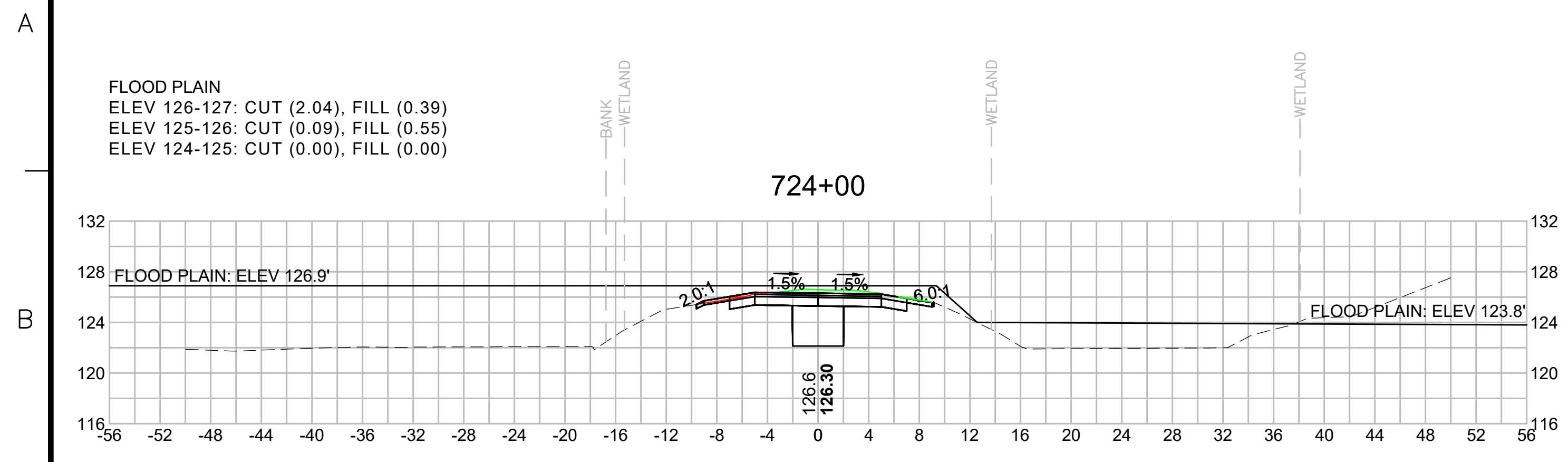
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	REVISION			

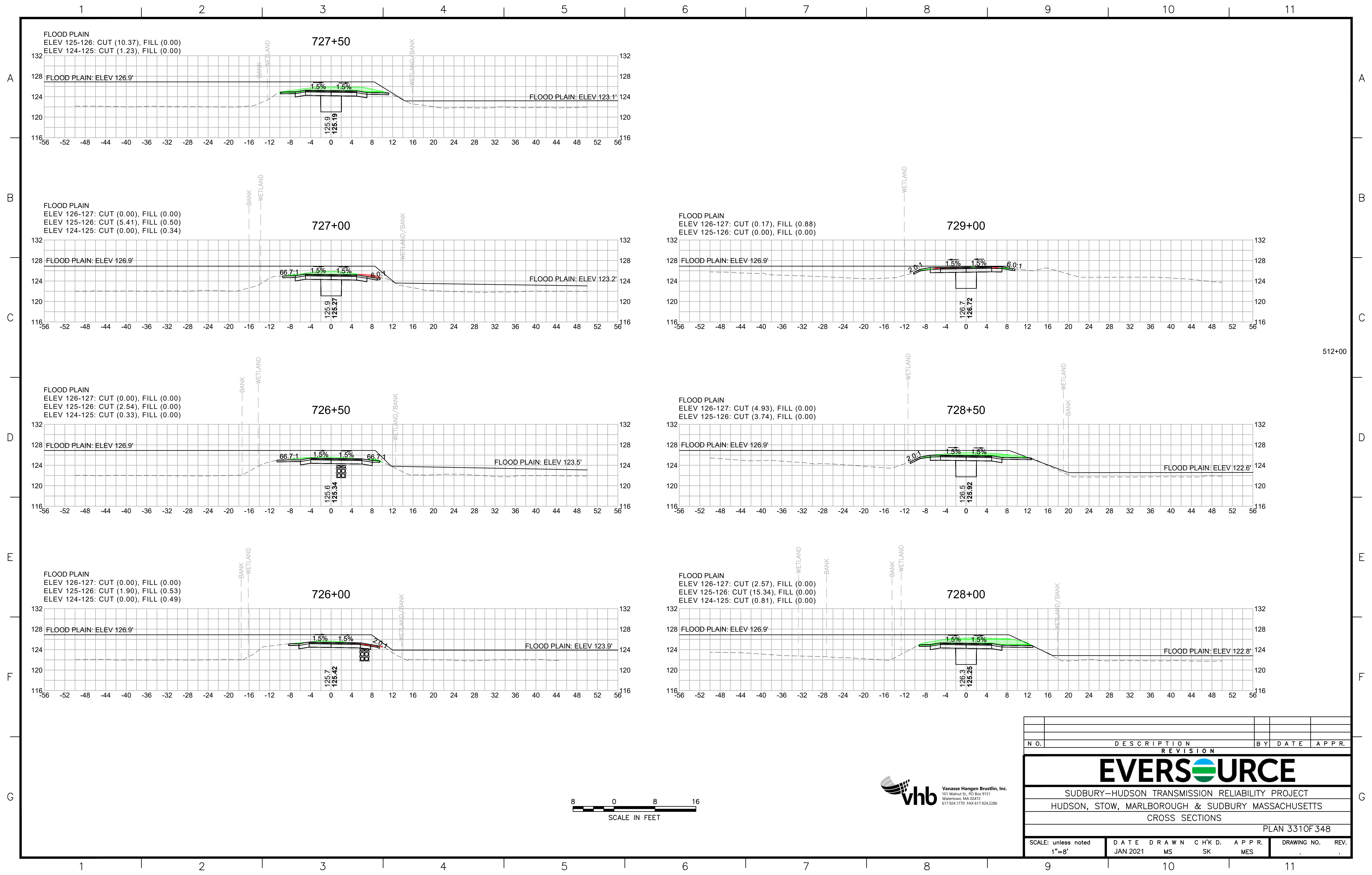
EVERSOURCE

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1 2 3 4 5 6 7 8 9 10 11



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

727+50

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

727+00

FLOOD PLAIN
 ELEV 126-127: CUT (0.17), FILL (0.88)
 ELEV 125-126: CUT (0.00), FILL (0.00)

729+00

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

726+50

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

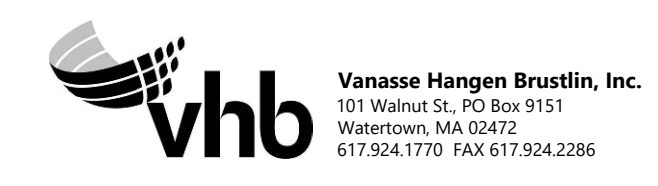
728+50

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

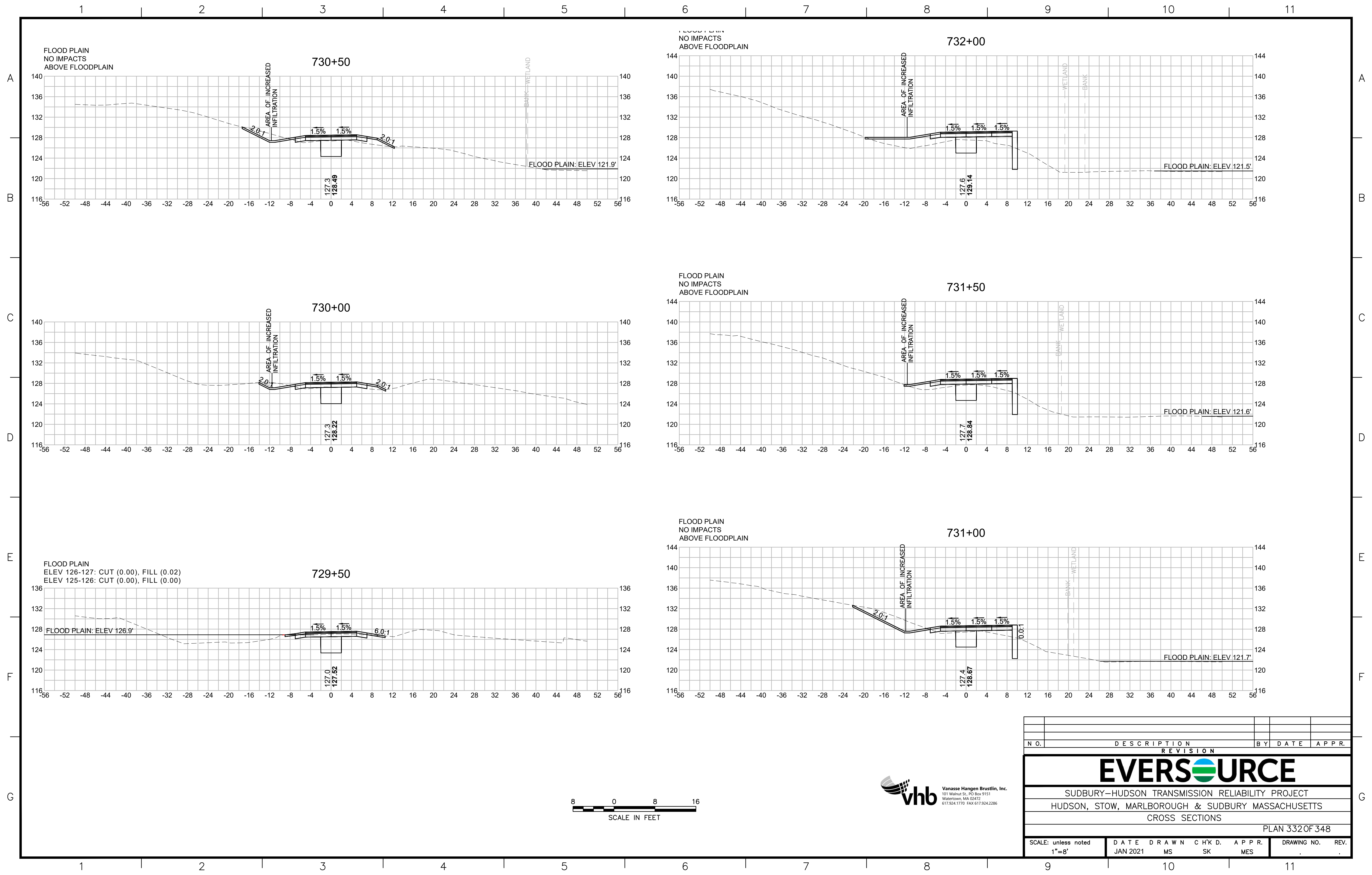
726+00

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

728+00



N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 3310F348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			



N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 332 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.
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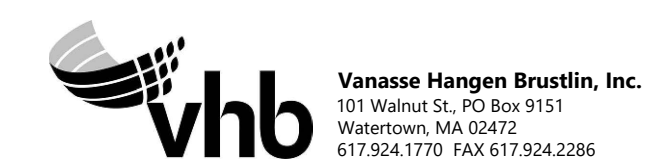
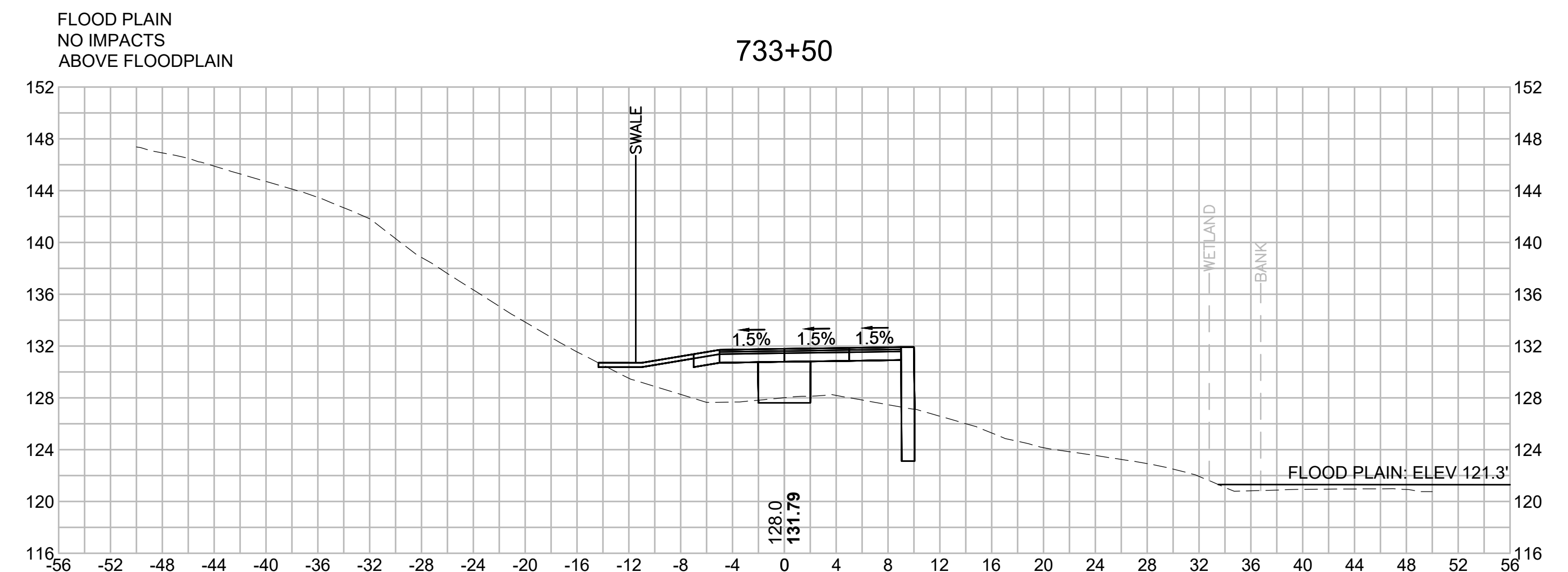
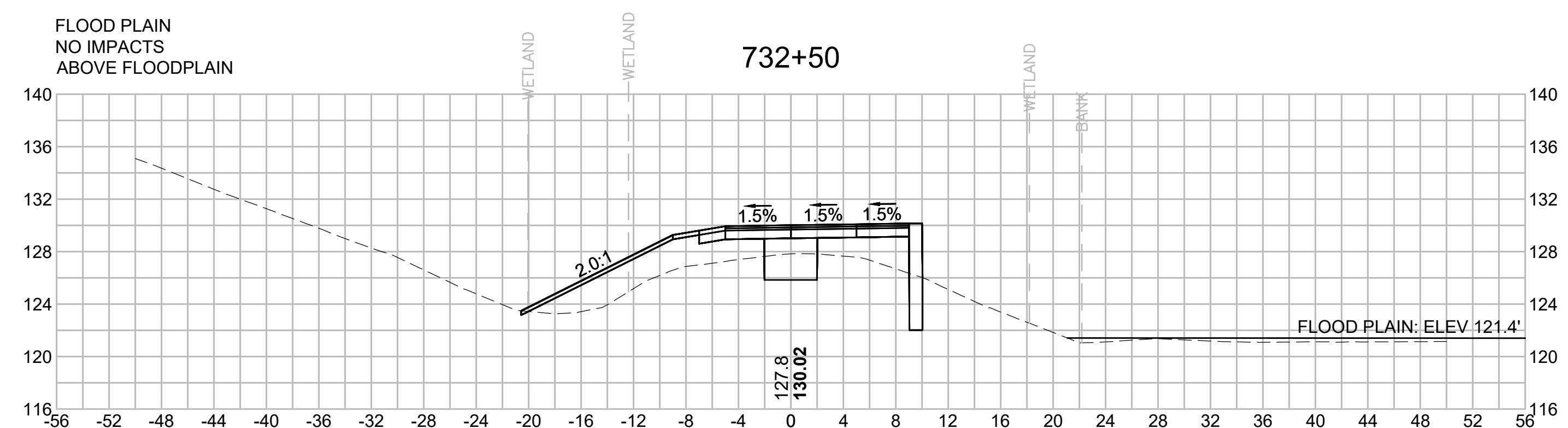
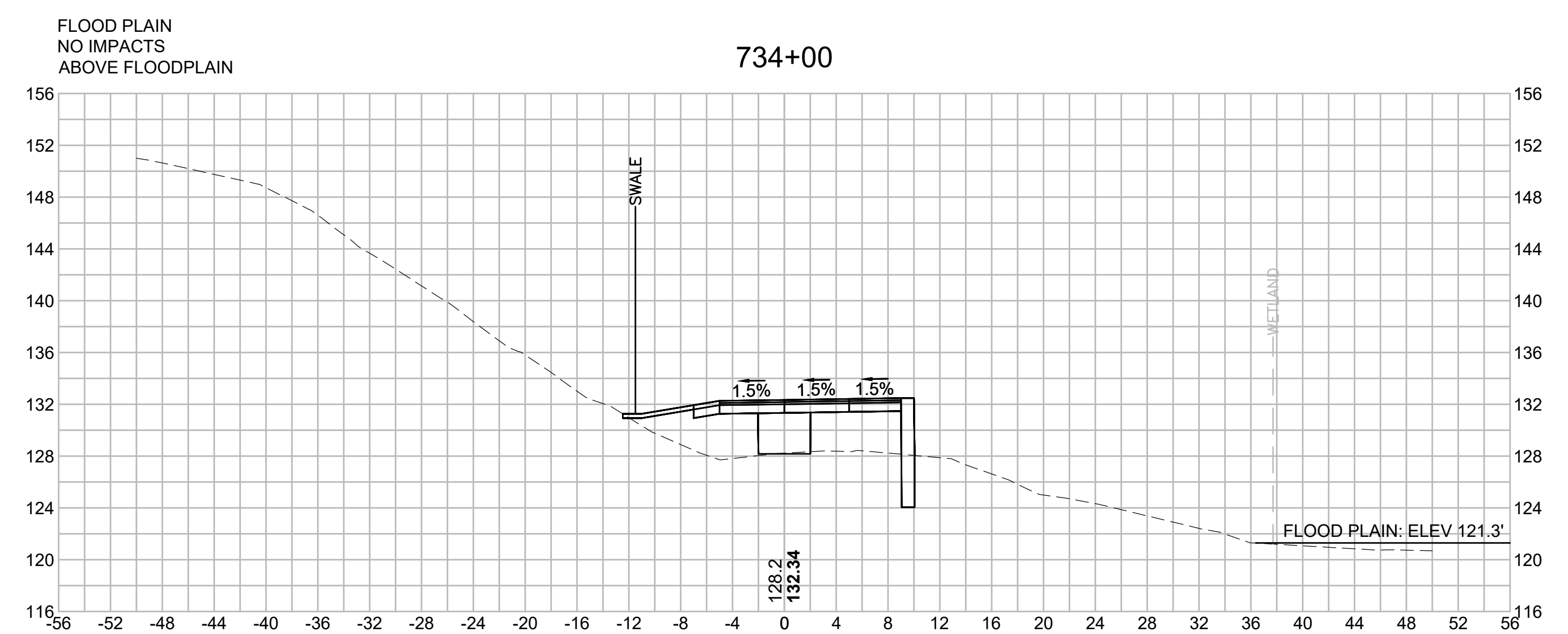
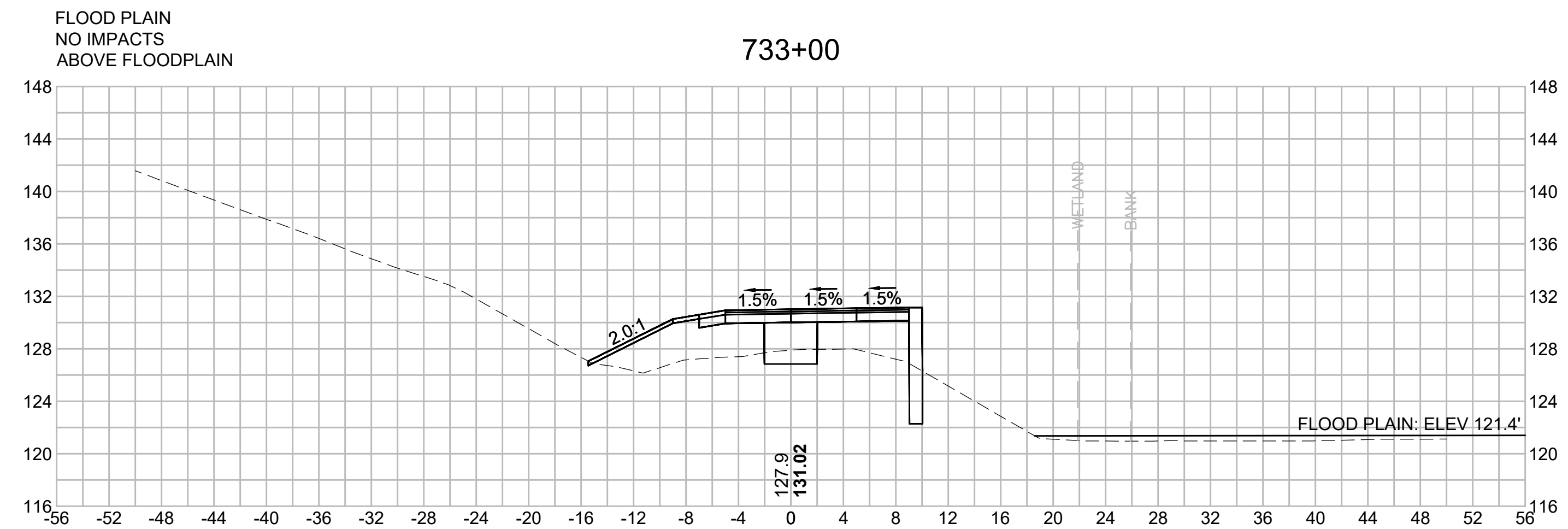
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 333 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO.	REV.
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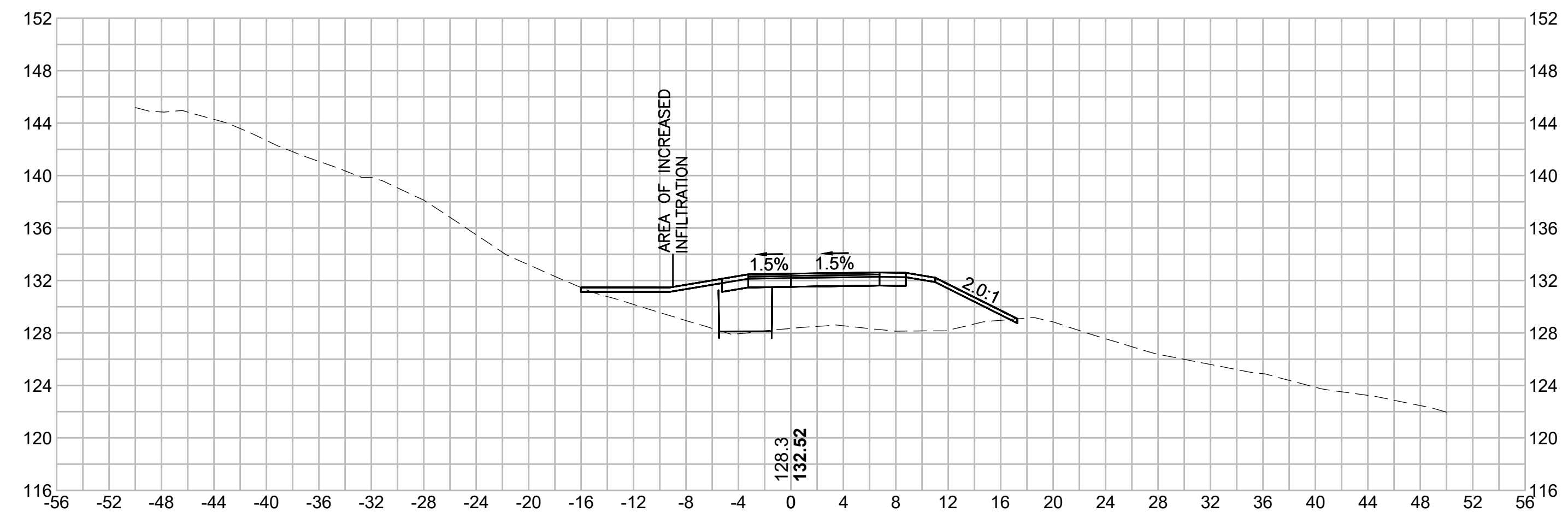
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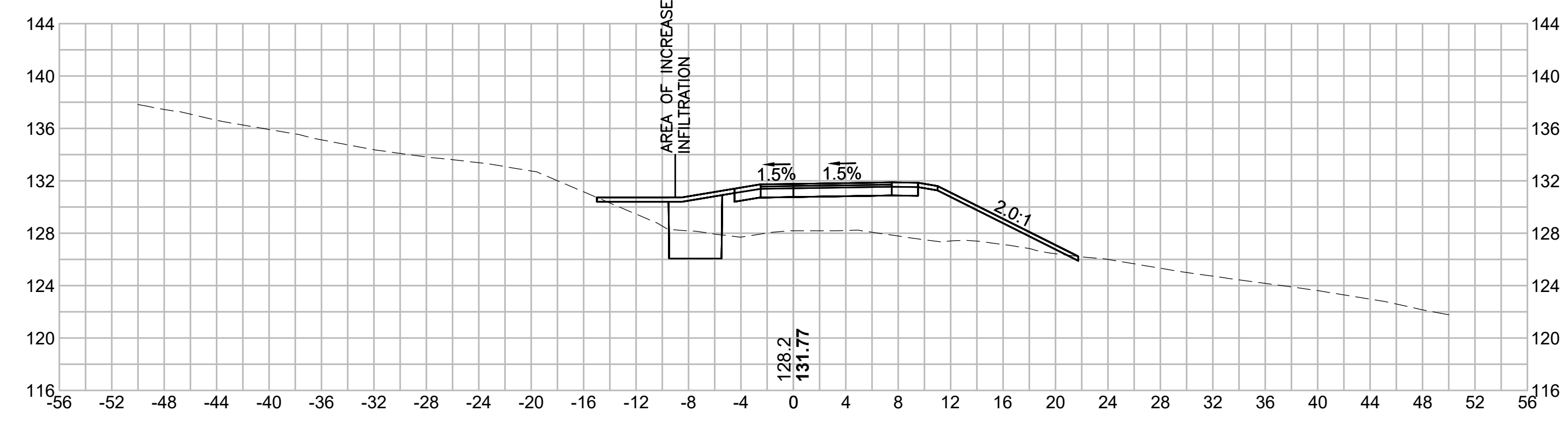
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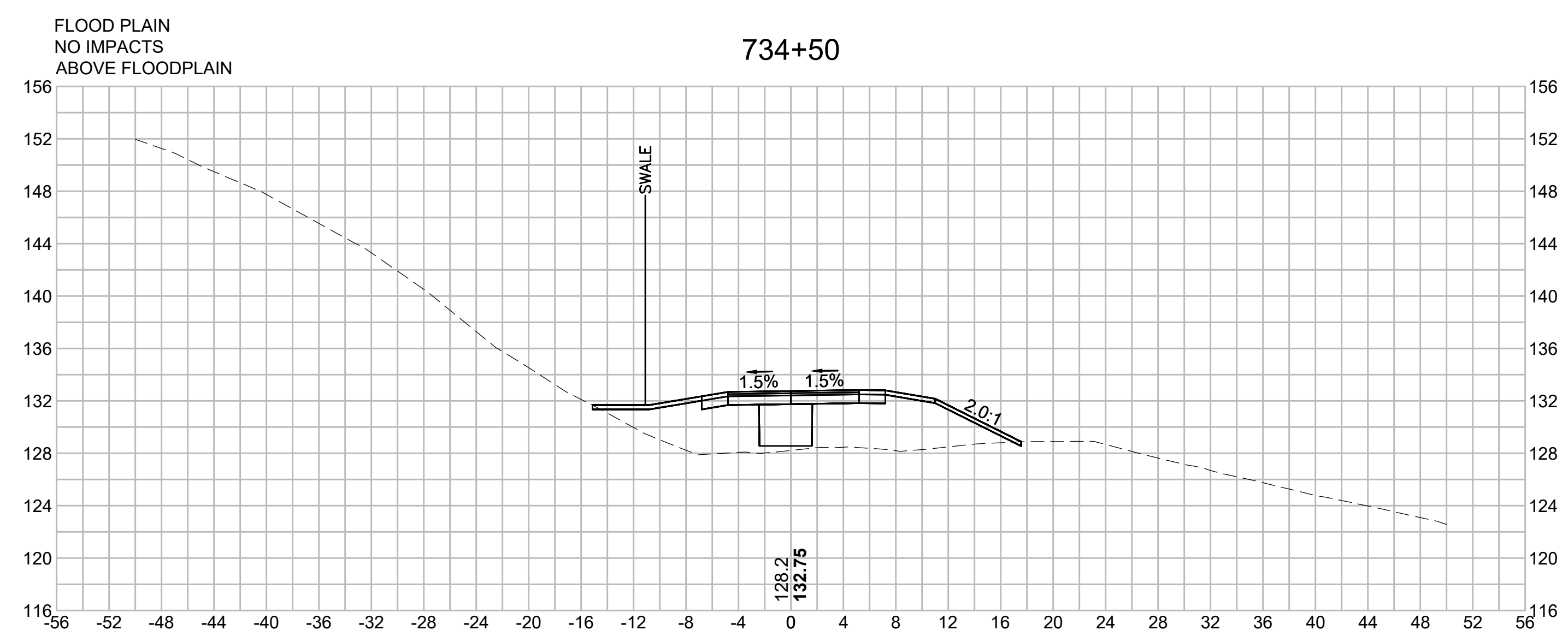
735+00



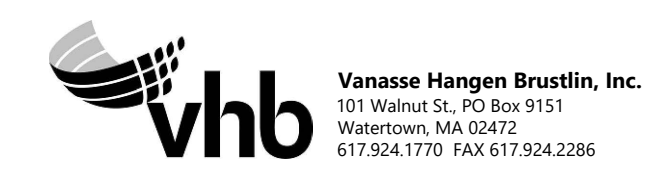
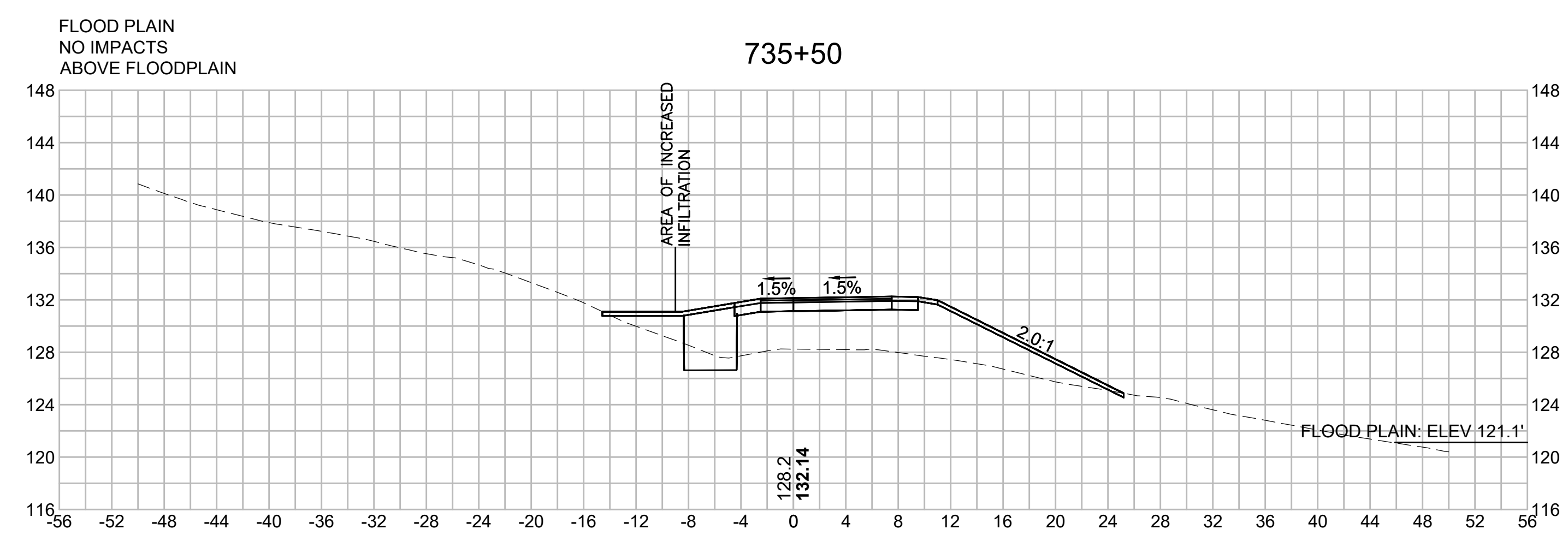
736+00



734+50



735+50



N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

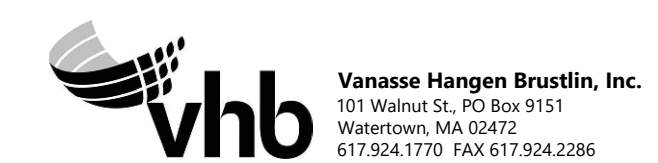
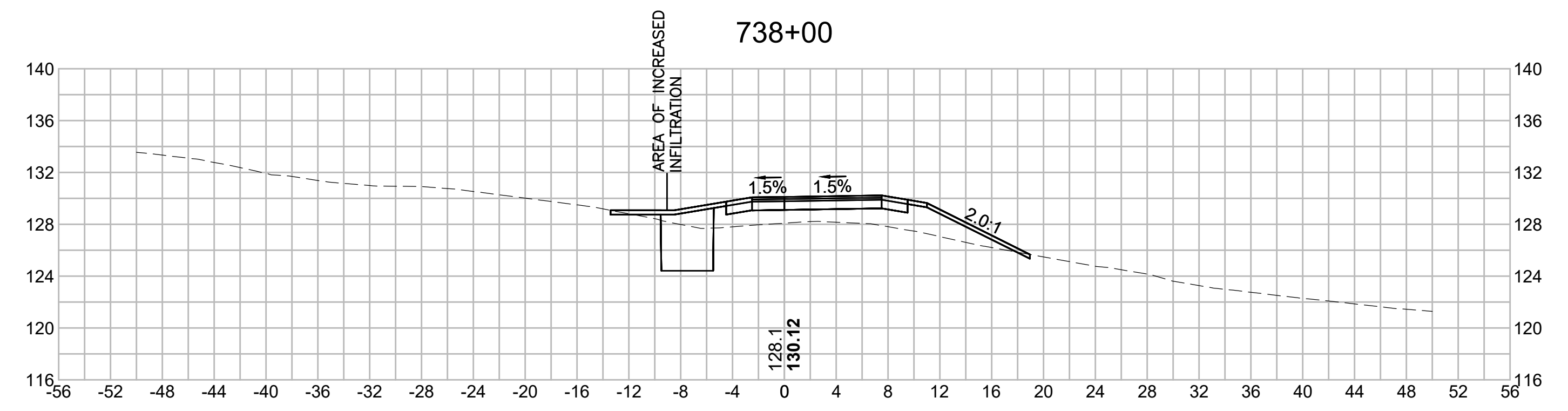
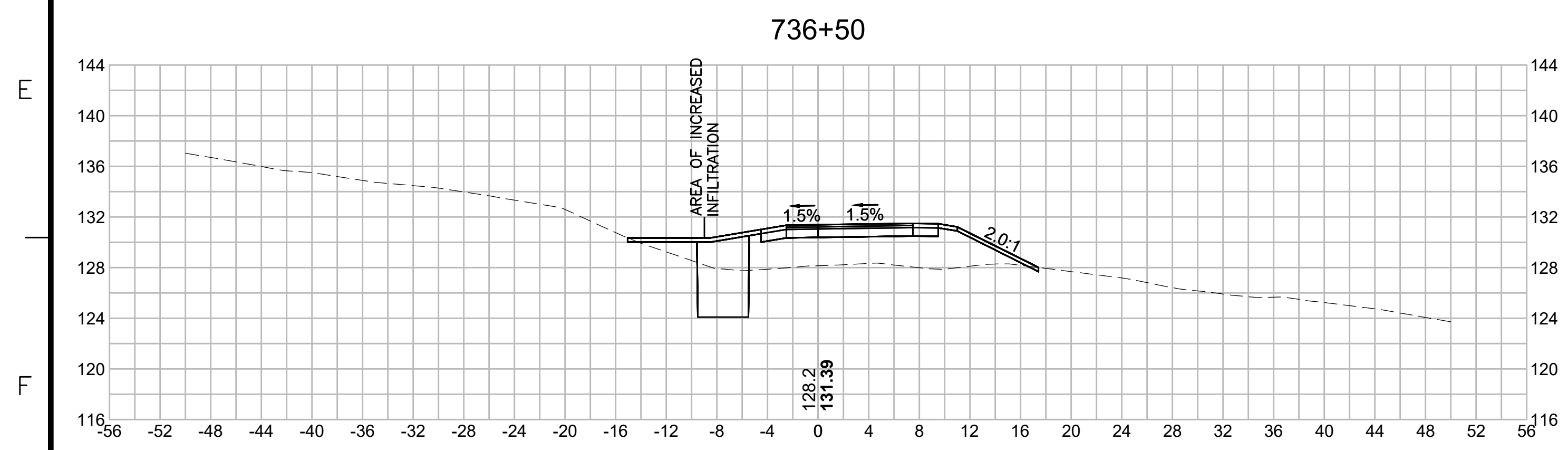
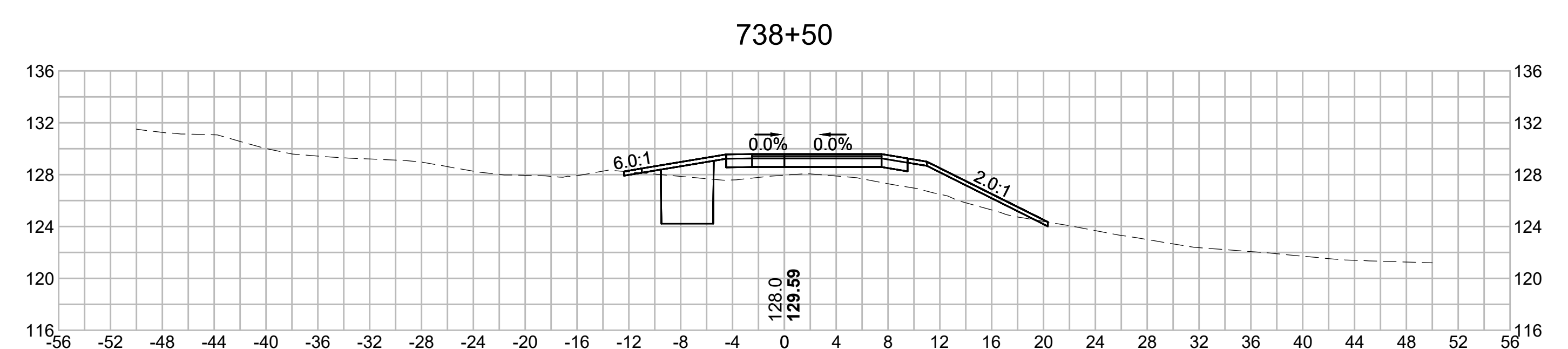
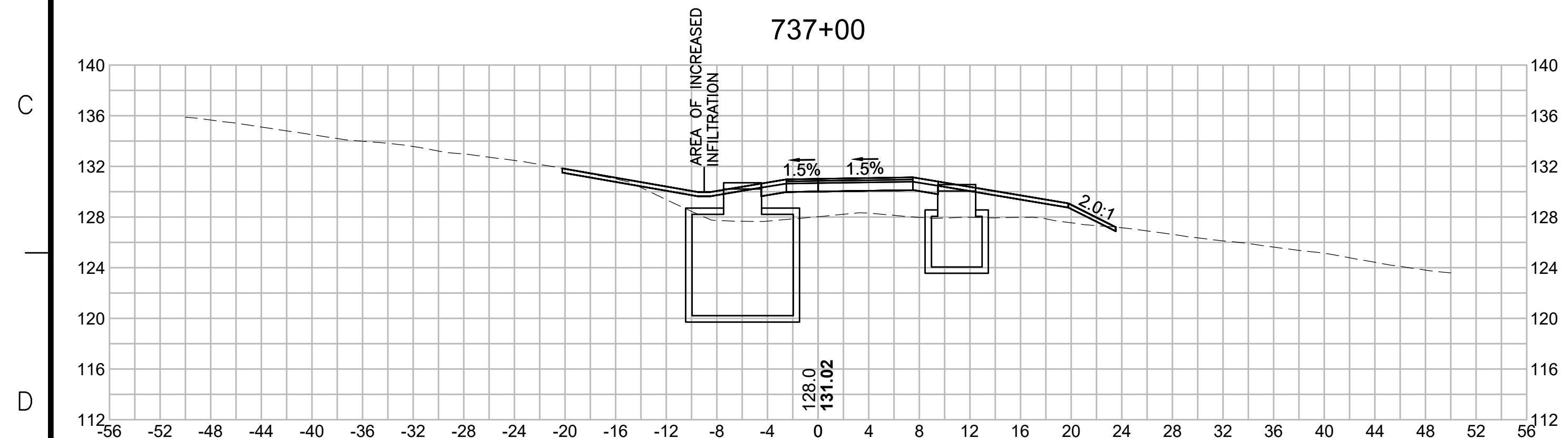
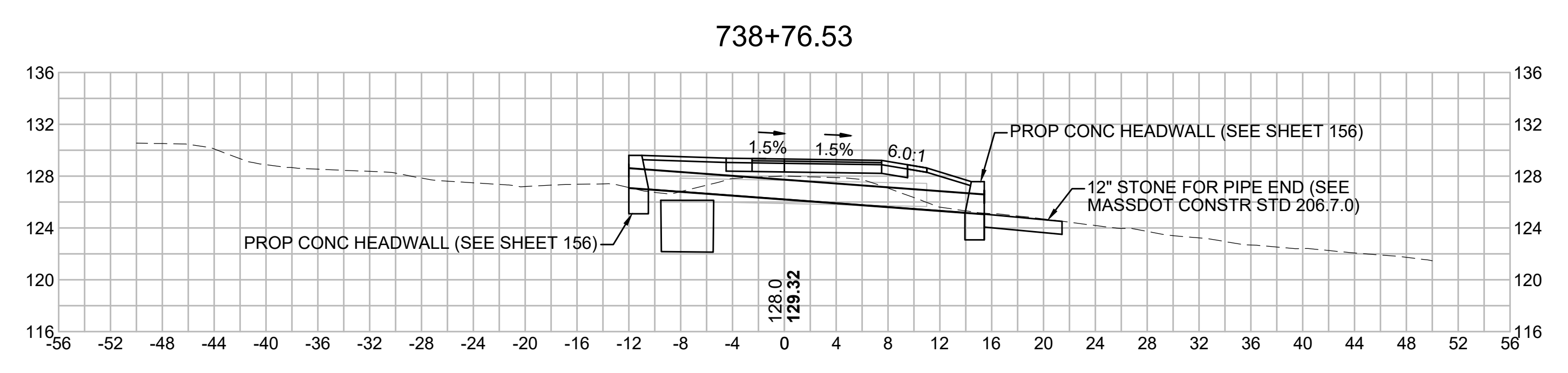
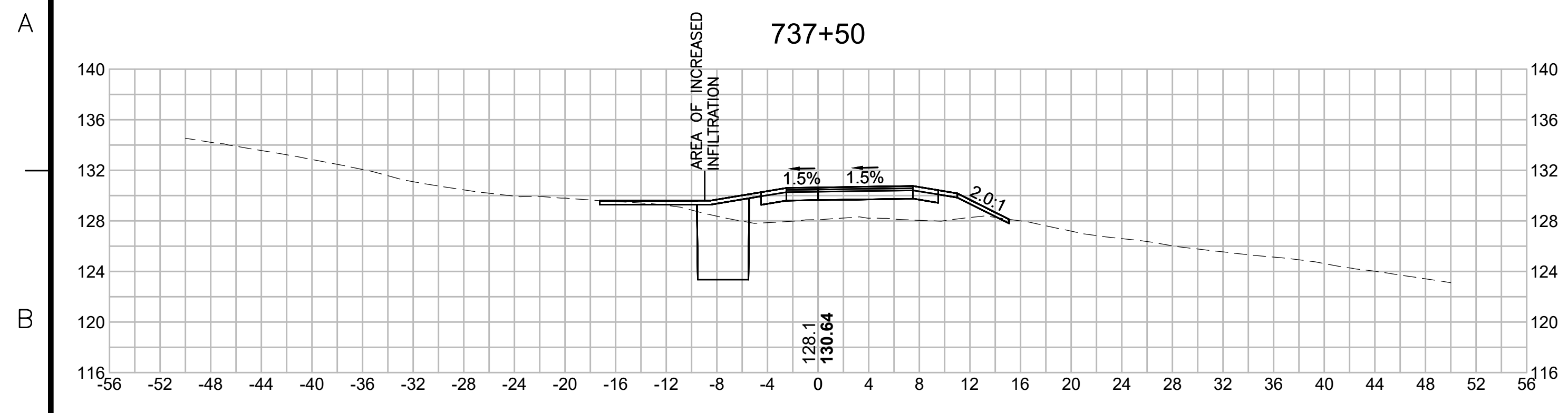
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CROSS SECTIONS

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SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	APPR. MES	DRAWING NO.	REV.
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N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 335 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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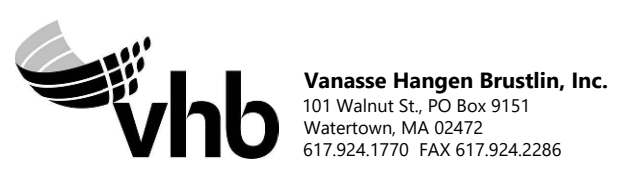
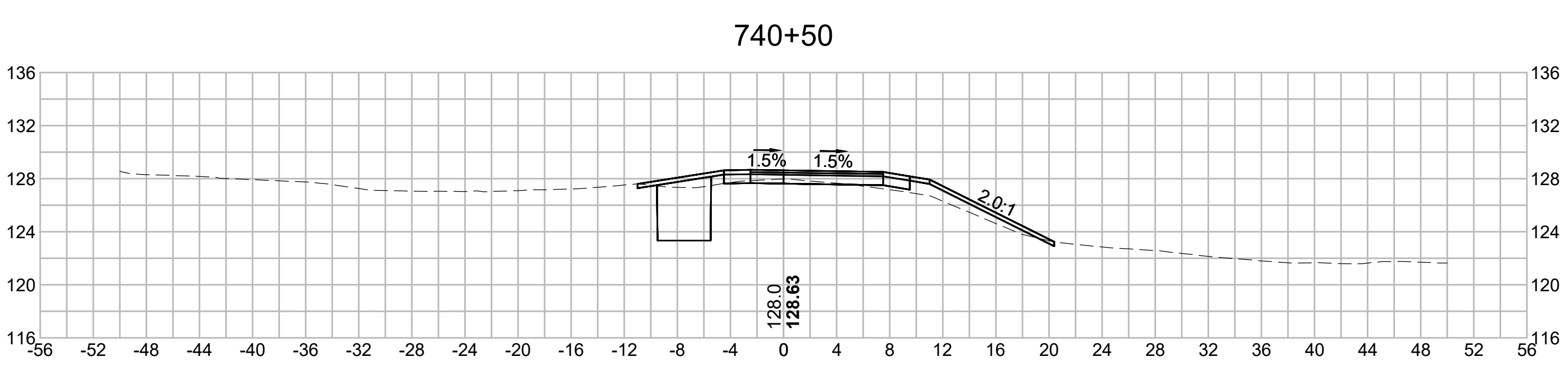
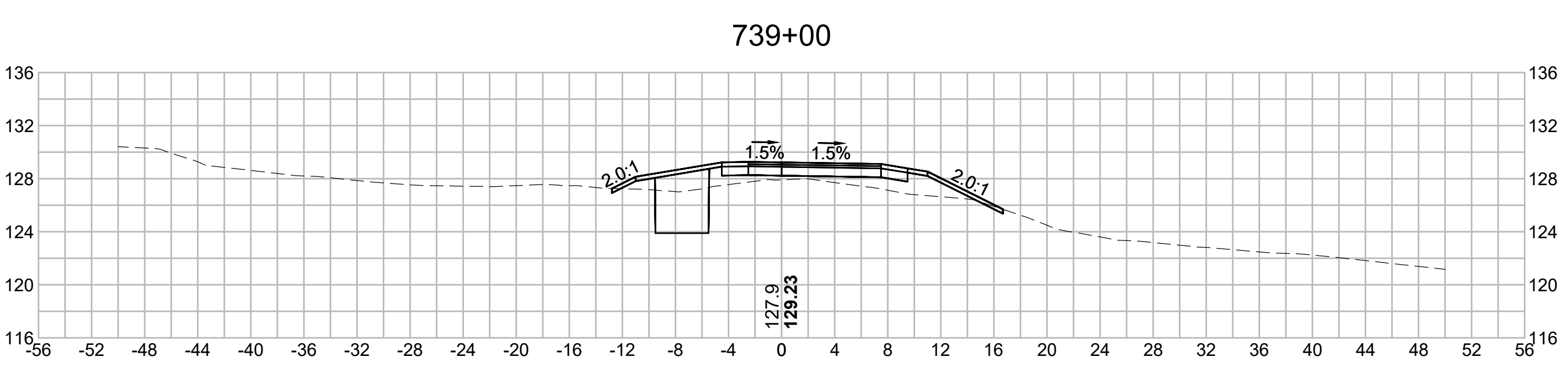
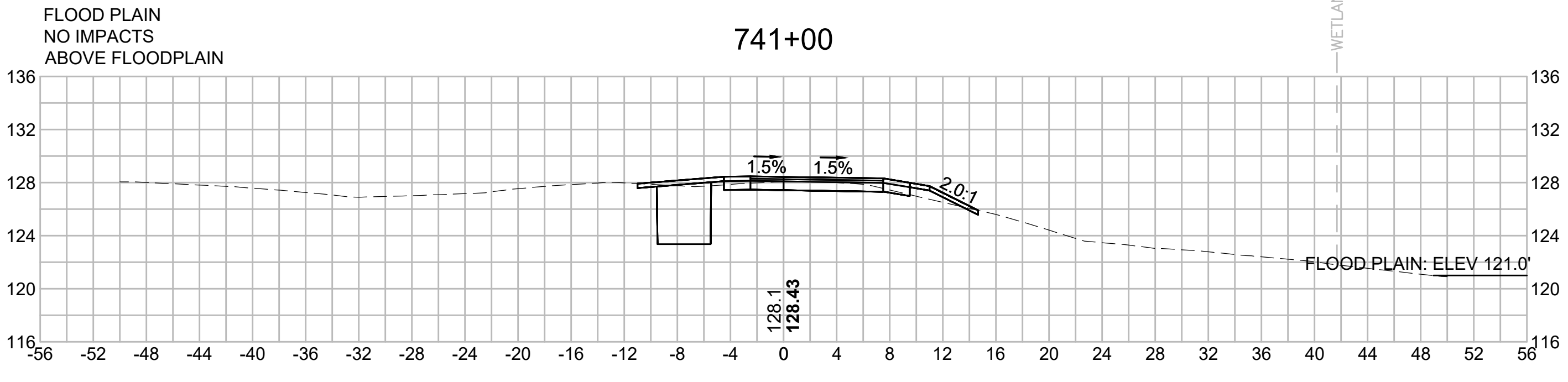
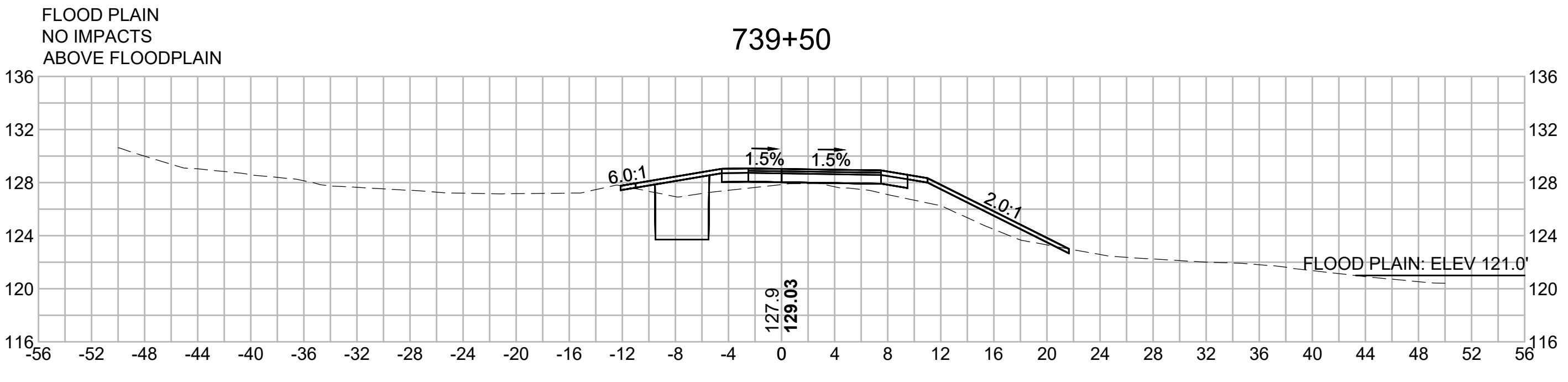
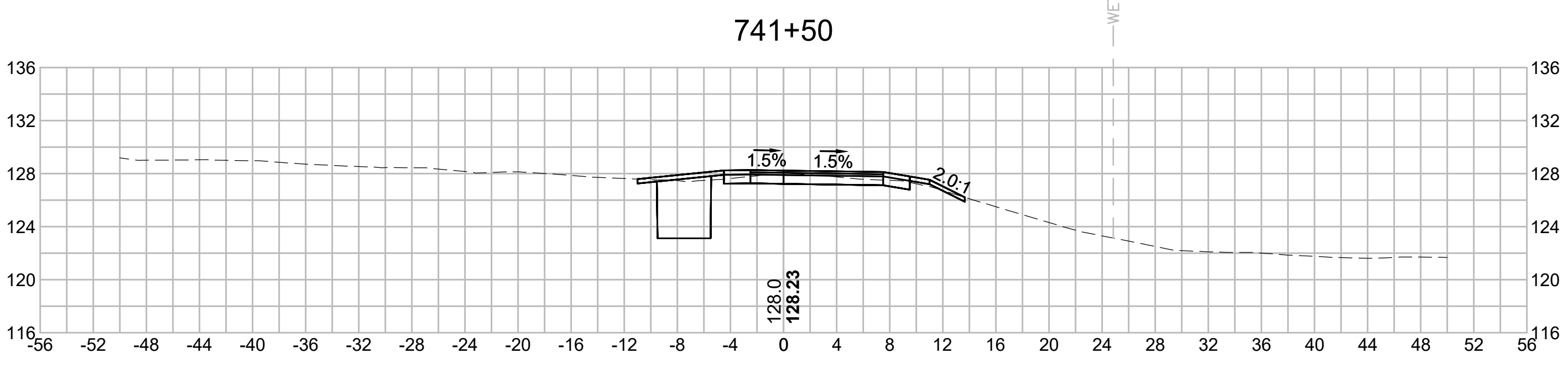
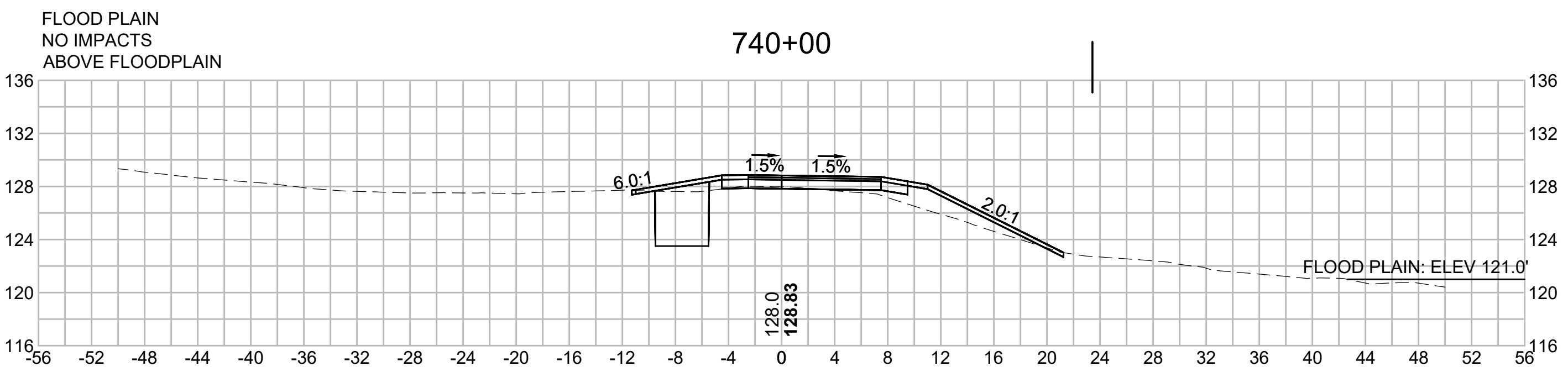
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N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

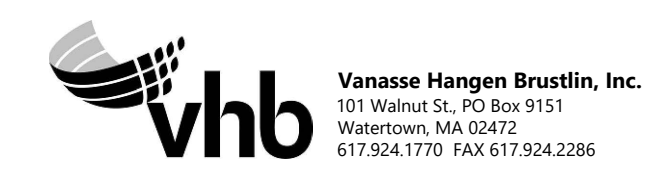
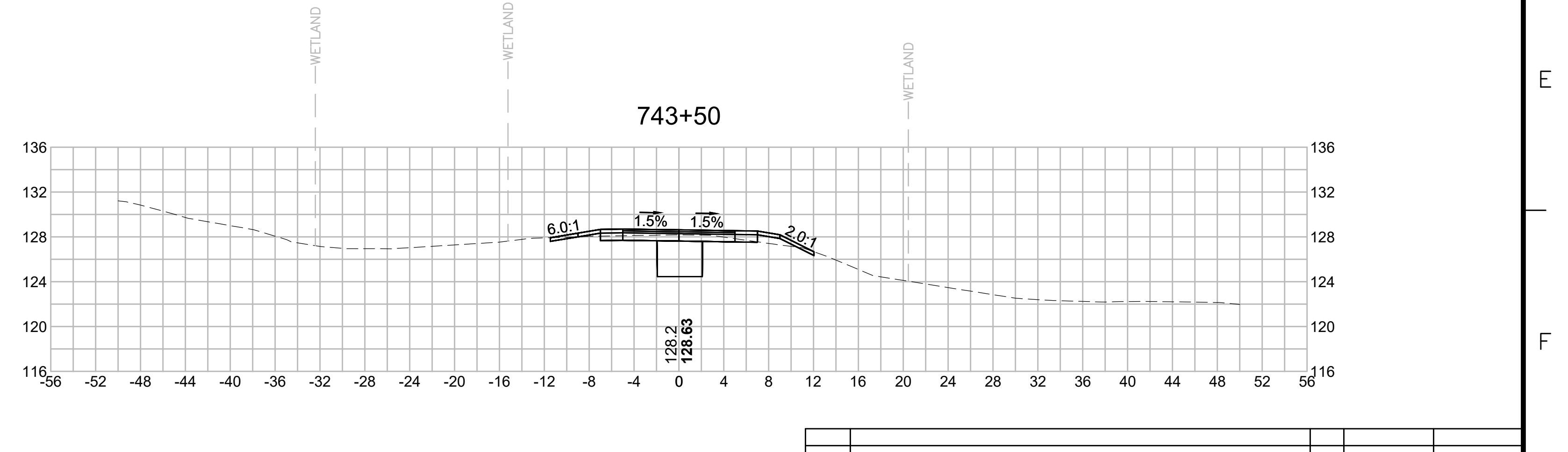
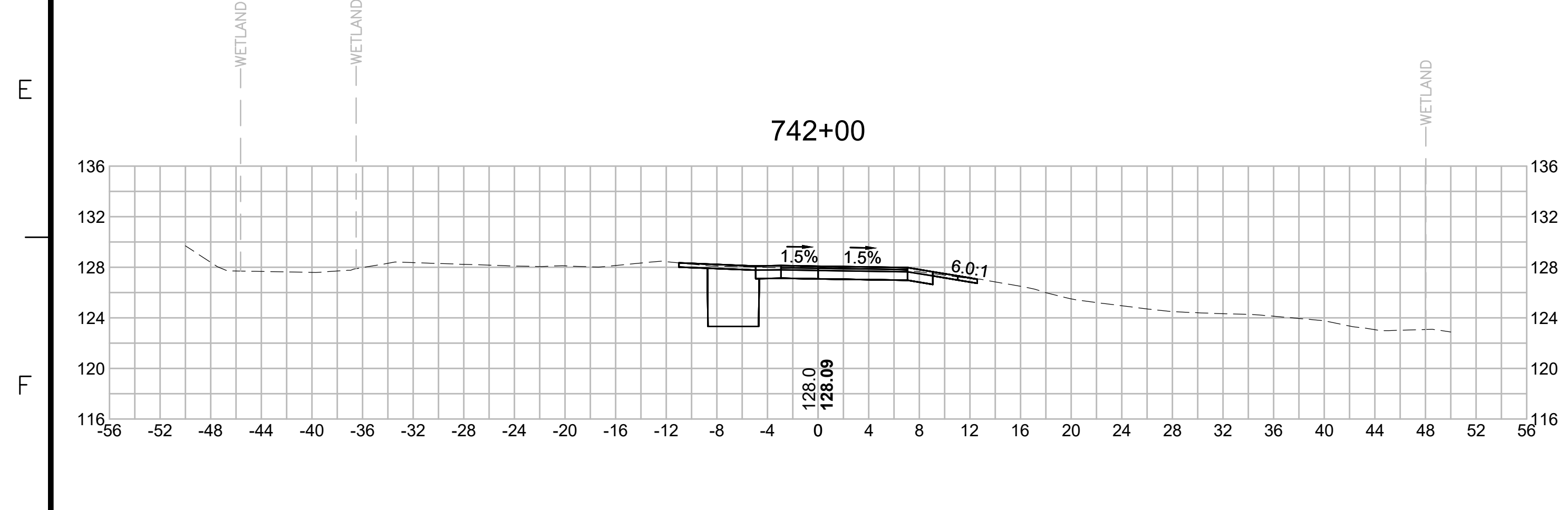
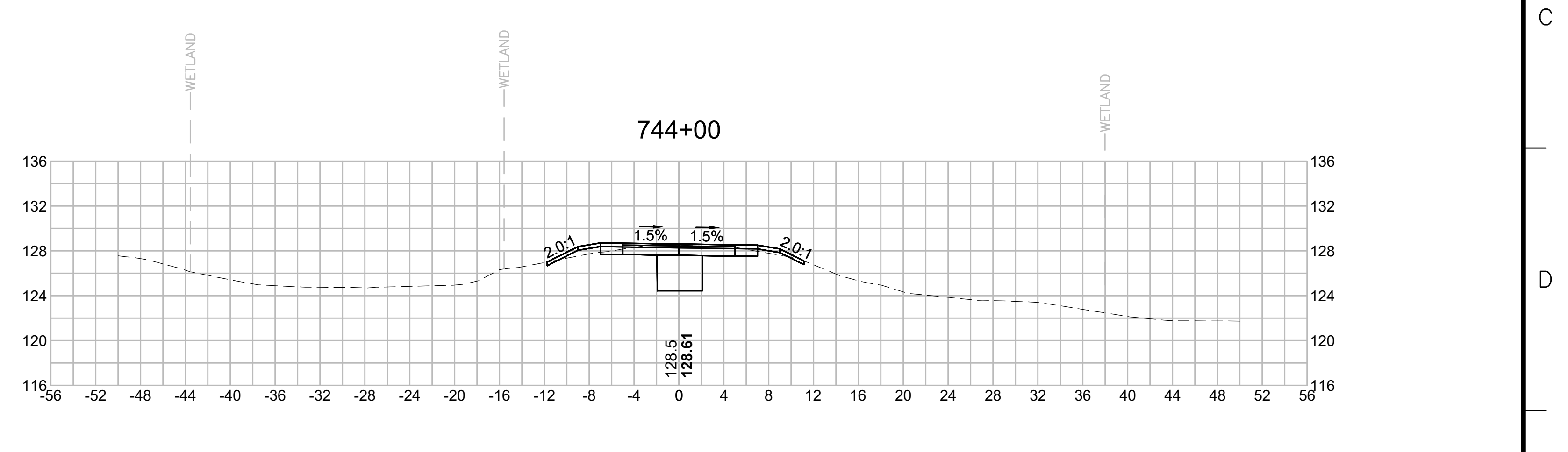
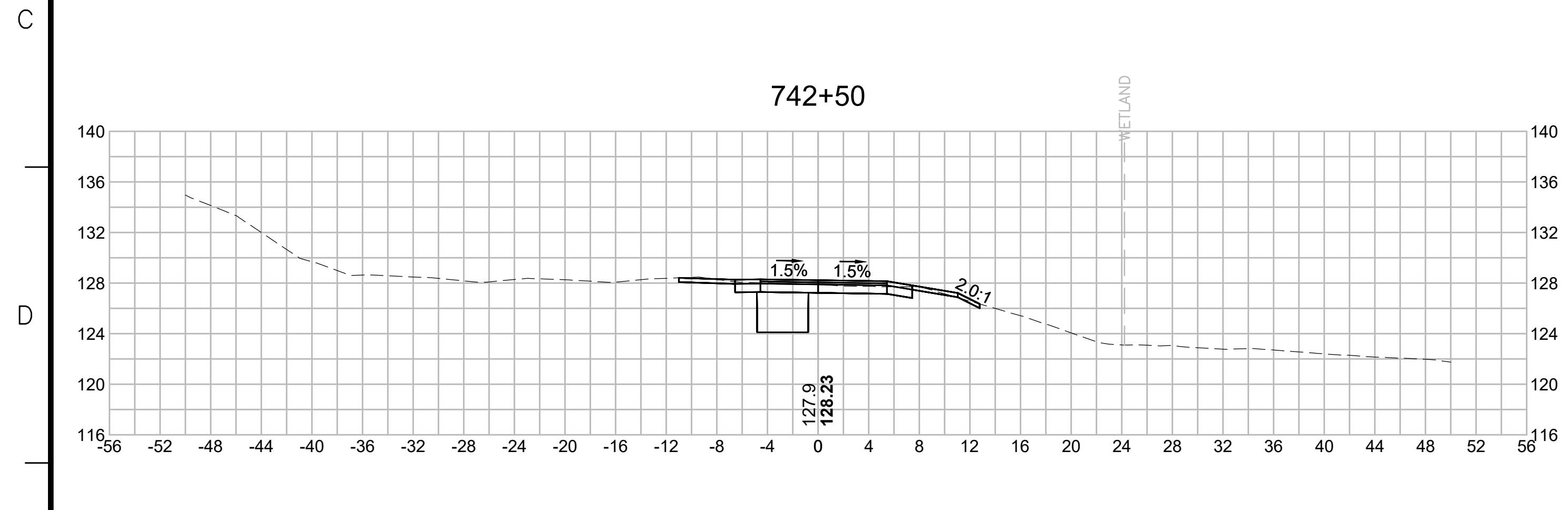
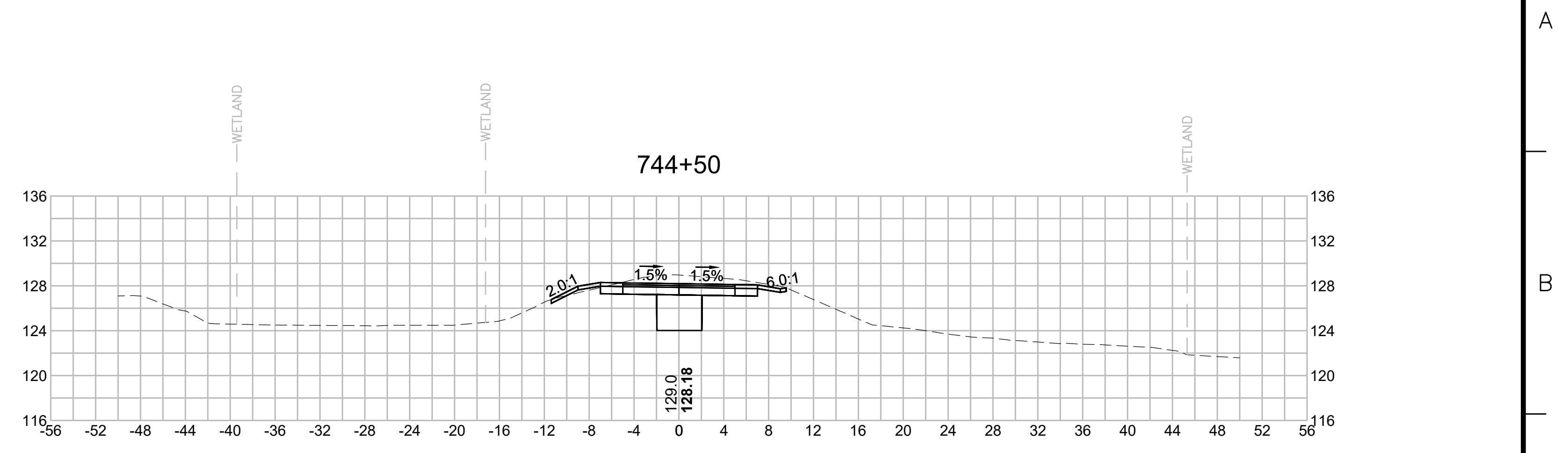
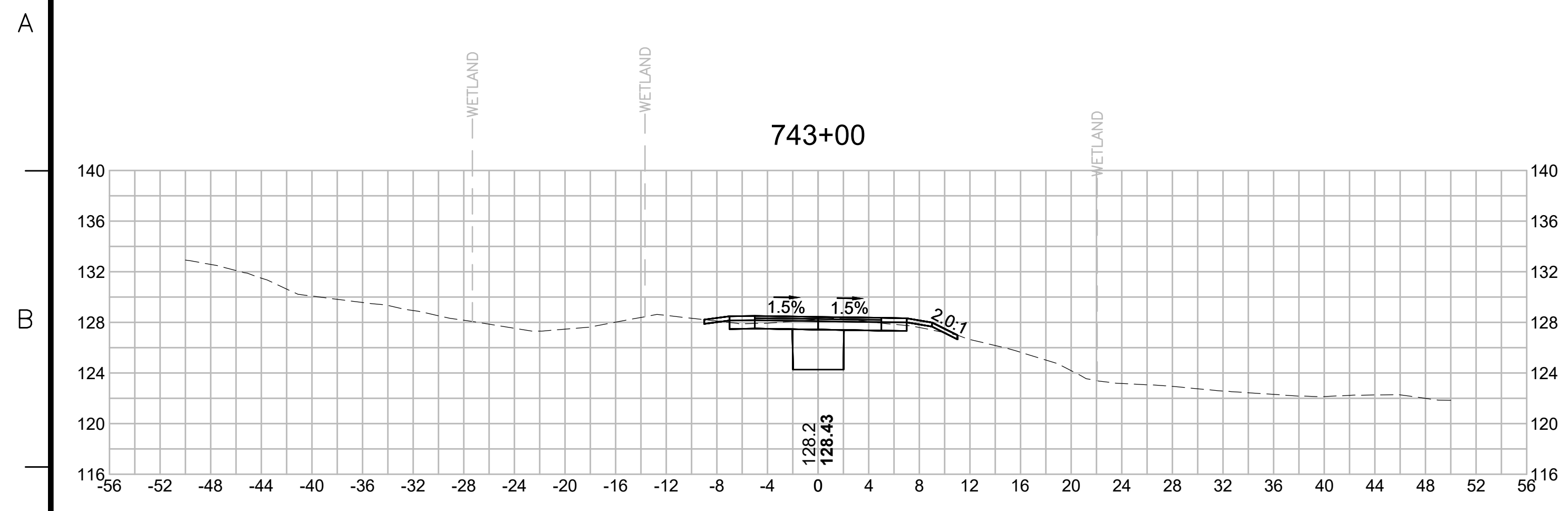
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 CROSS SECTIONS

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SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	C'H'K D. SK	APPR. MES	DRAWING NO. REV.
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N.O.	DESCRIPTION	BY	DATE	APPR.
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EVERSOURCE

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

PLAN 337 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES	DRAWING NO. REV.
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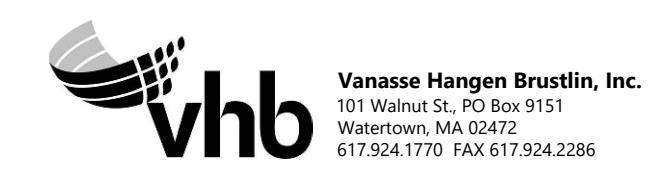
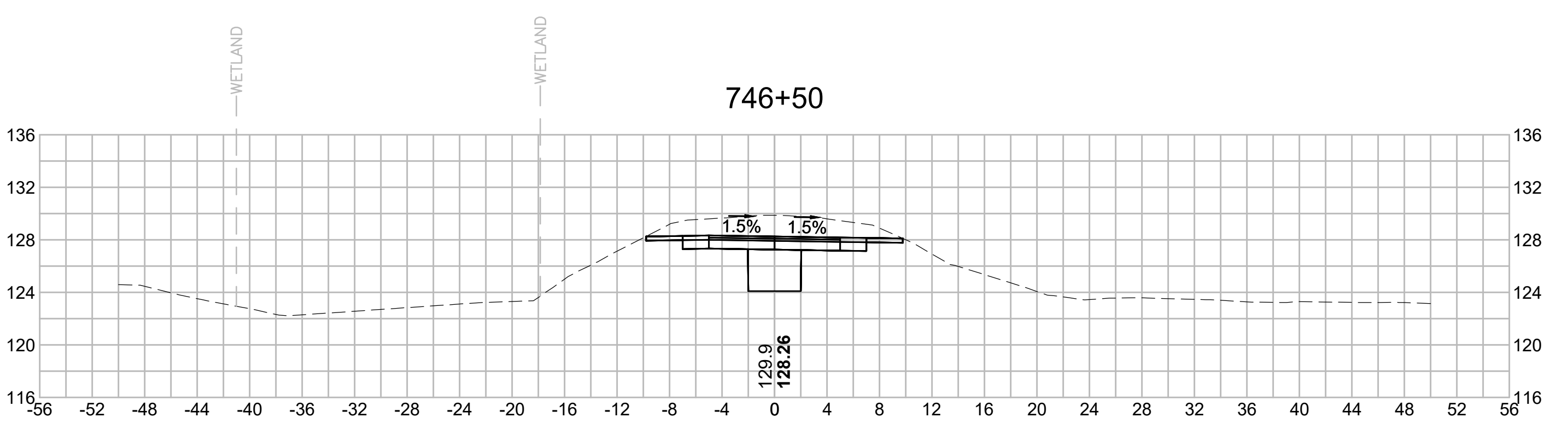
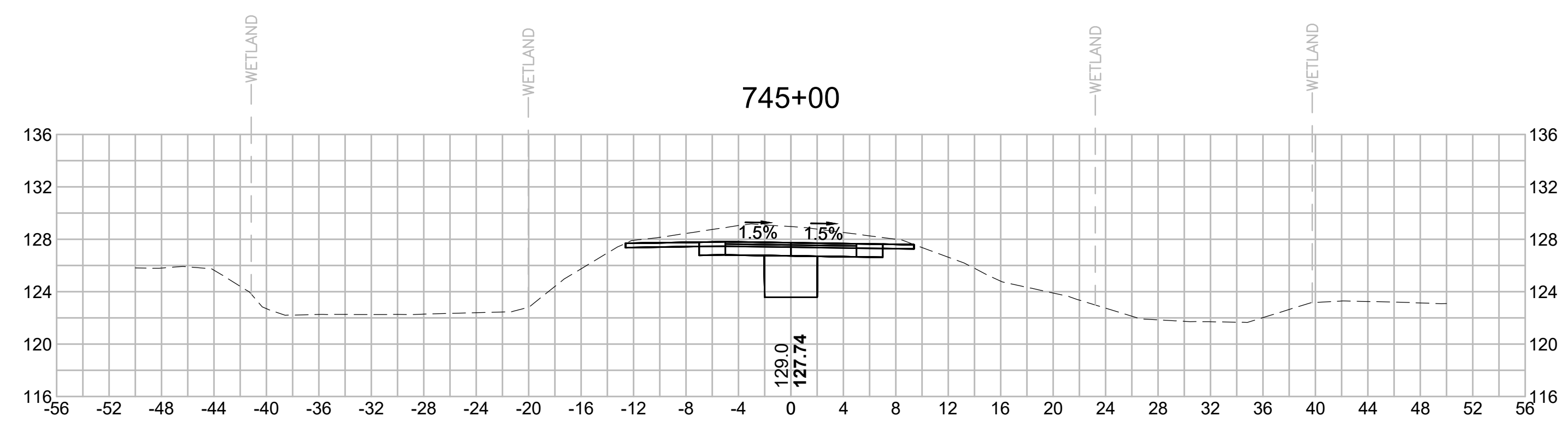
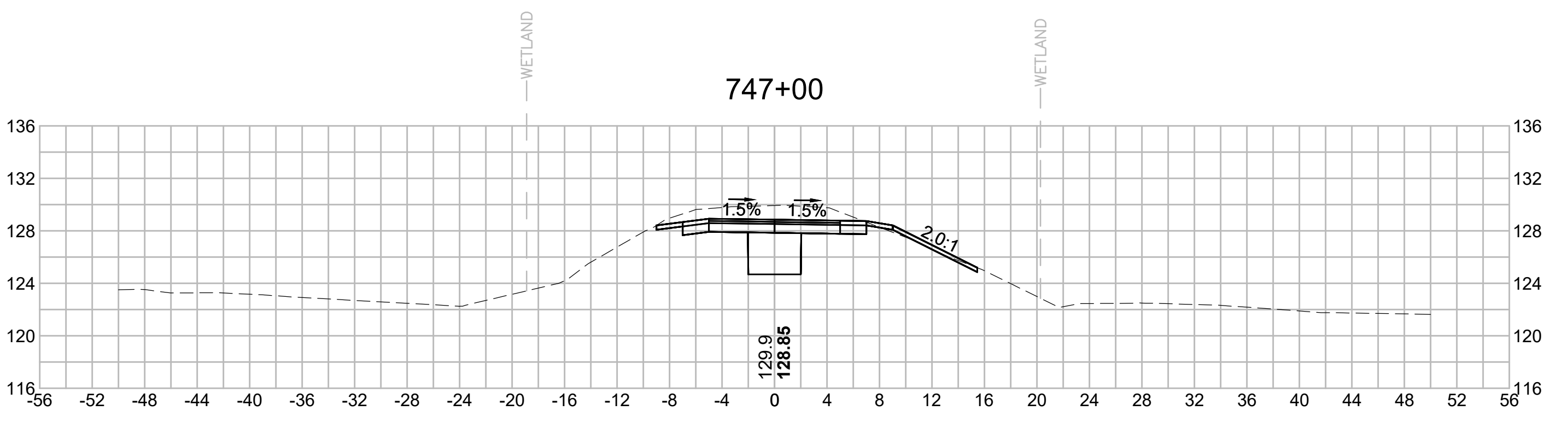
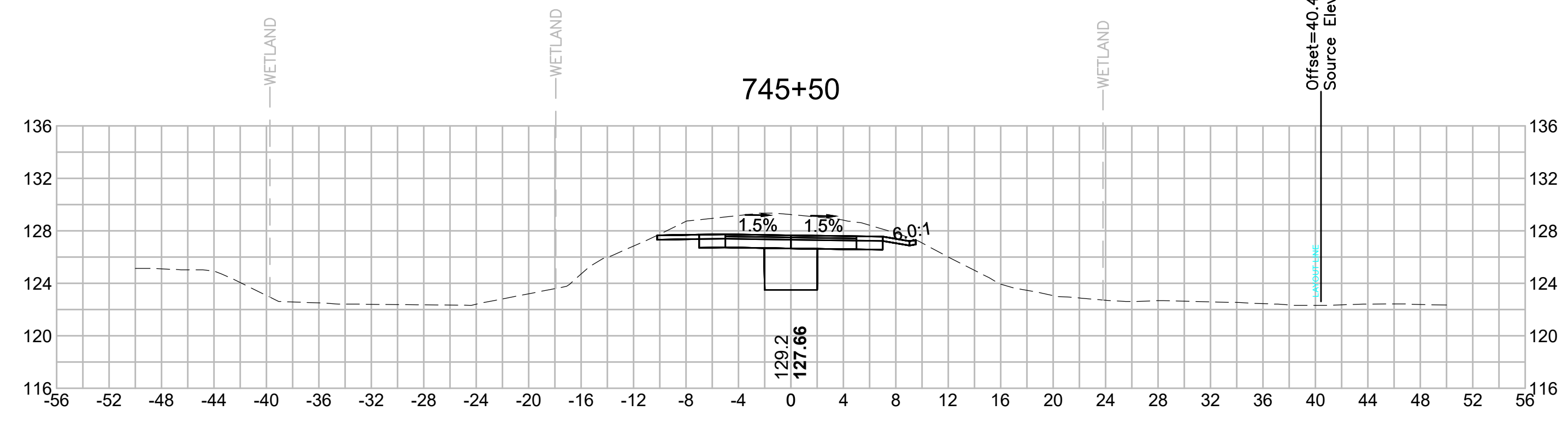
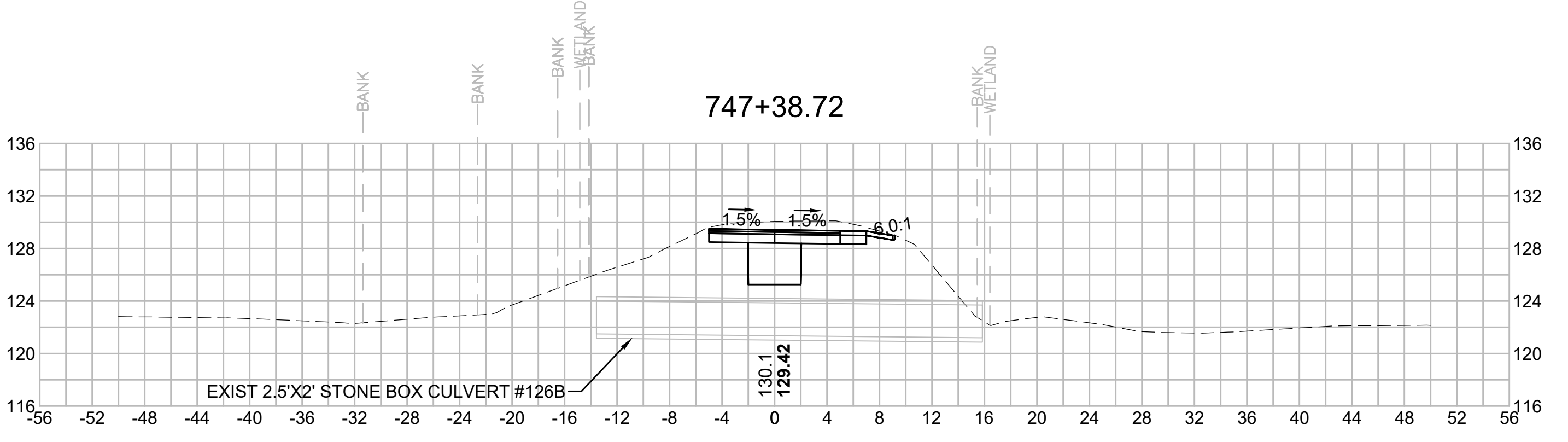
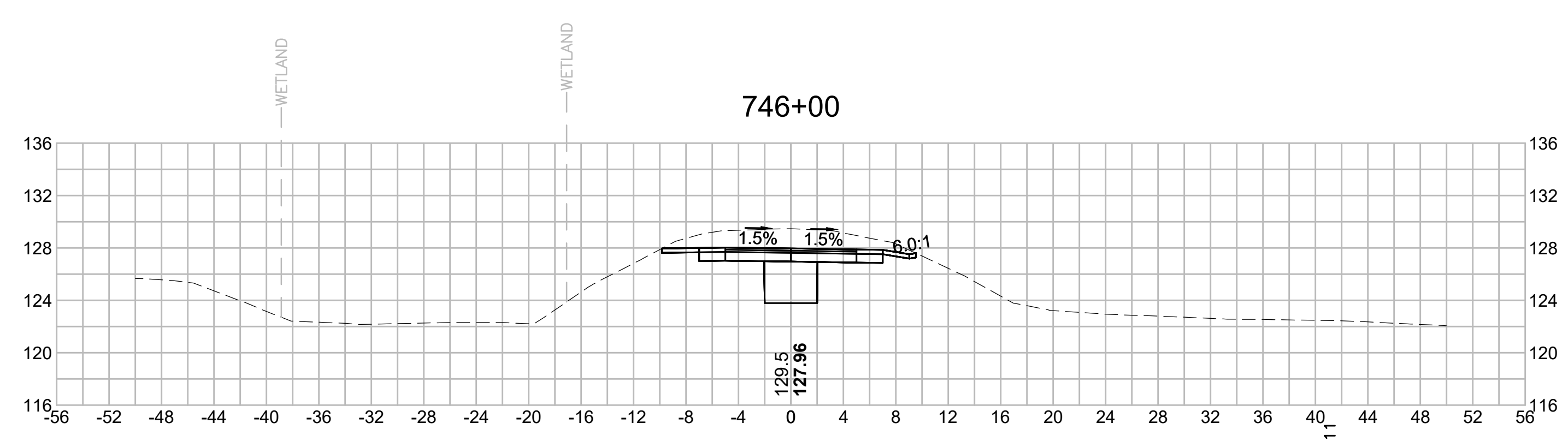
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 338 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11

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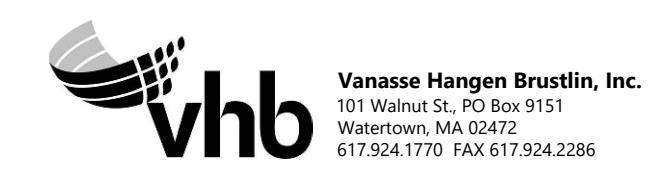
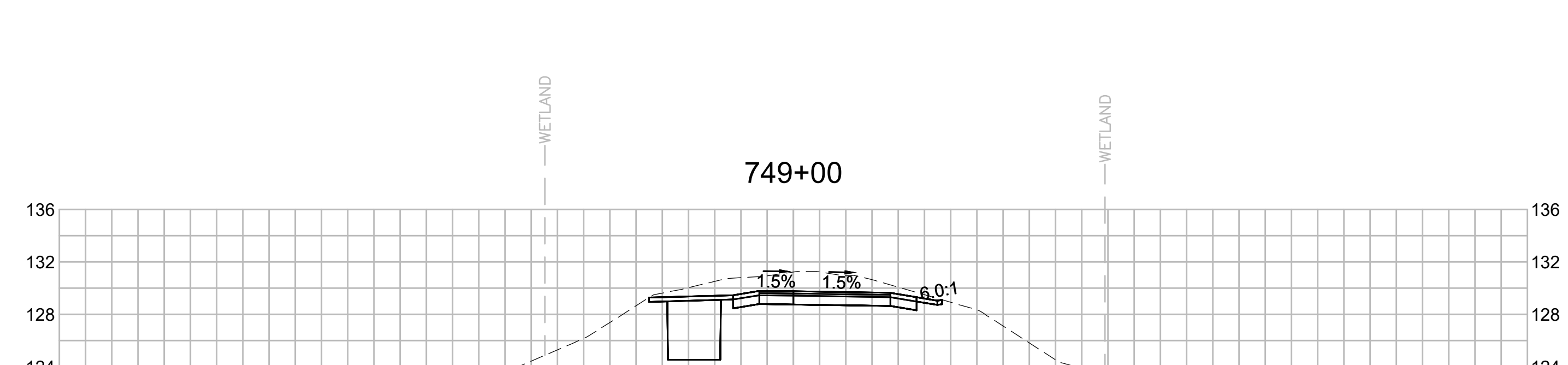
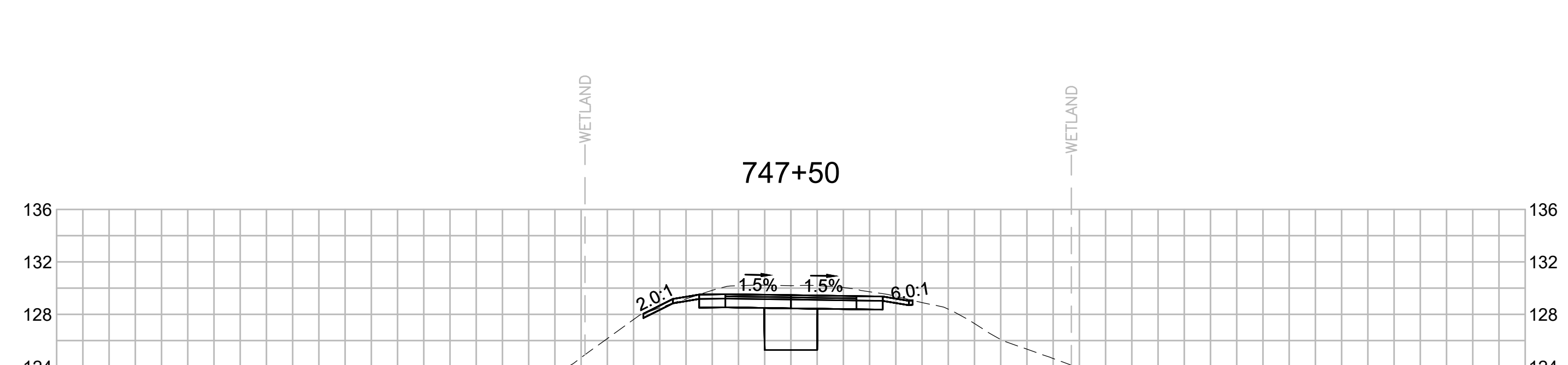
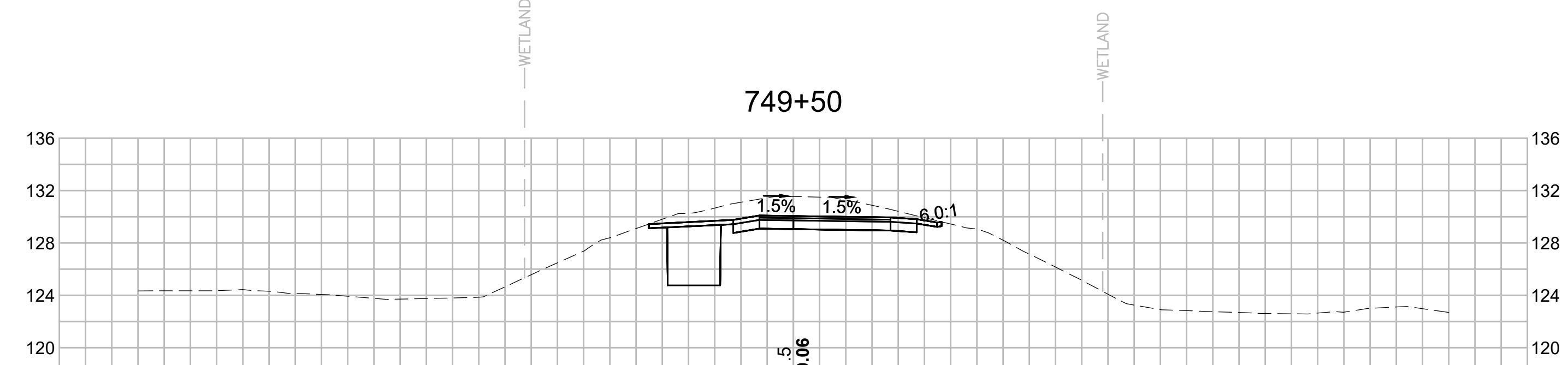
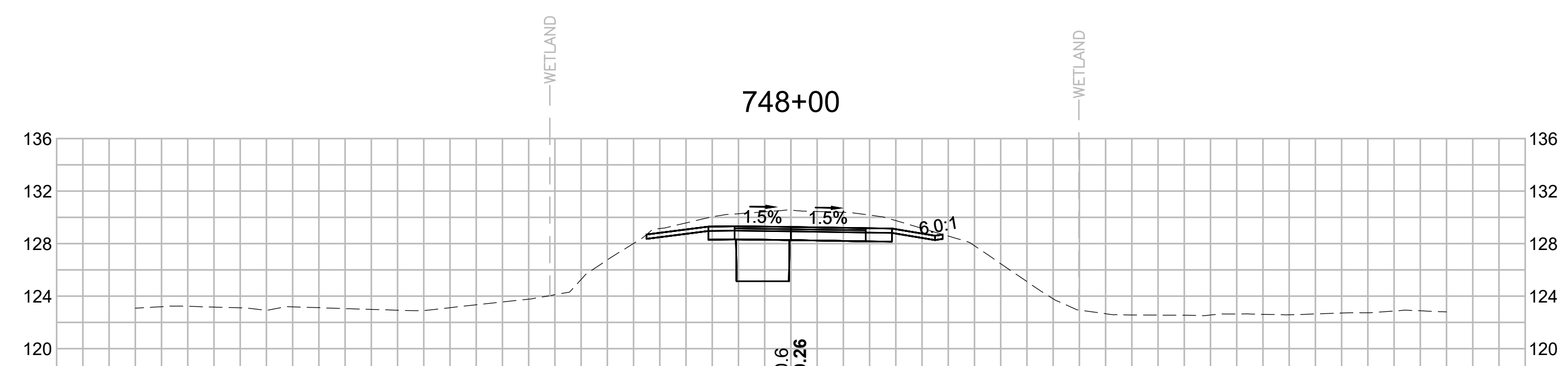
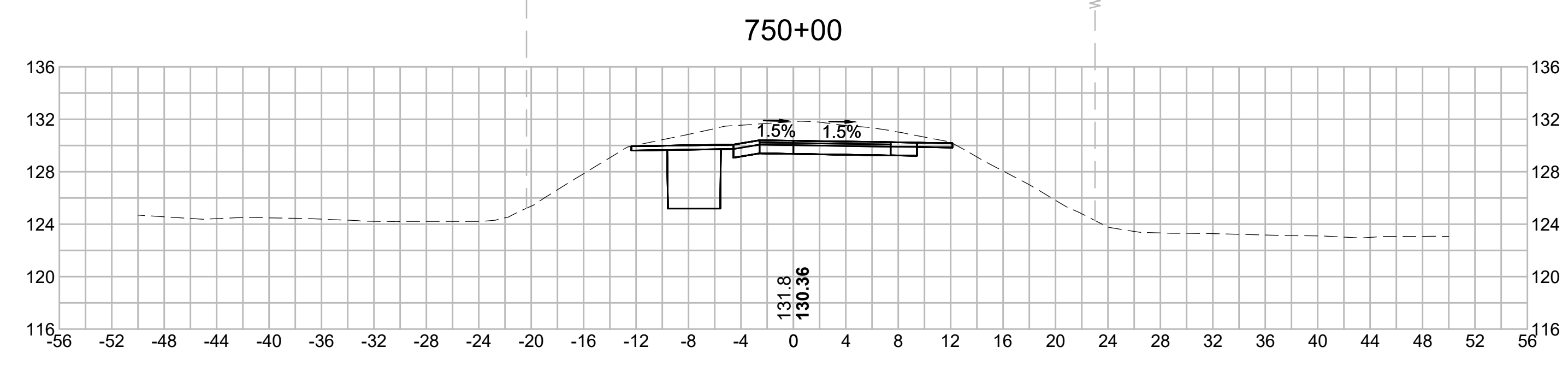
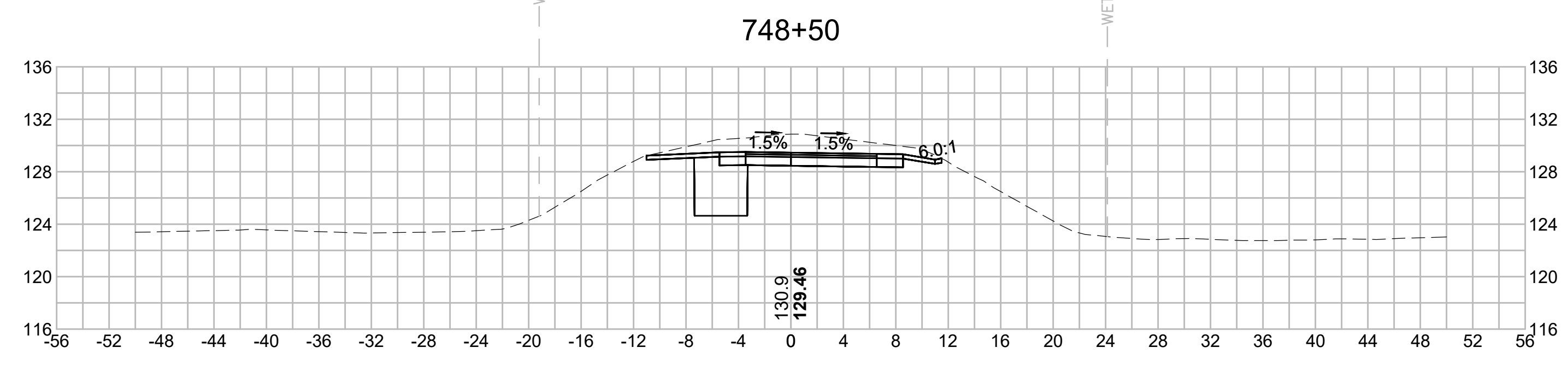
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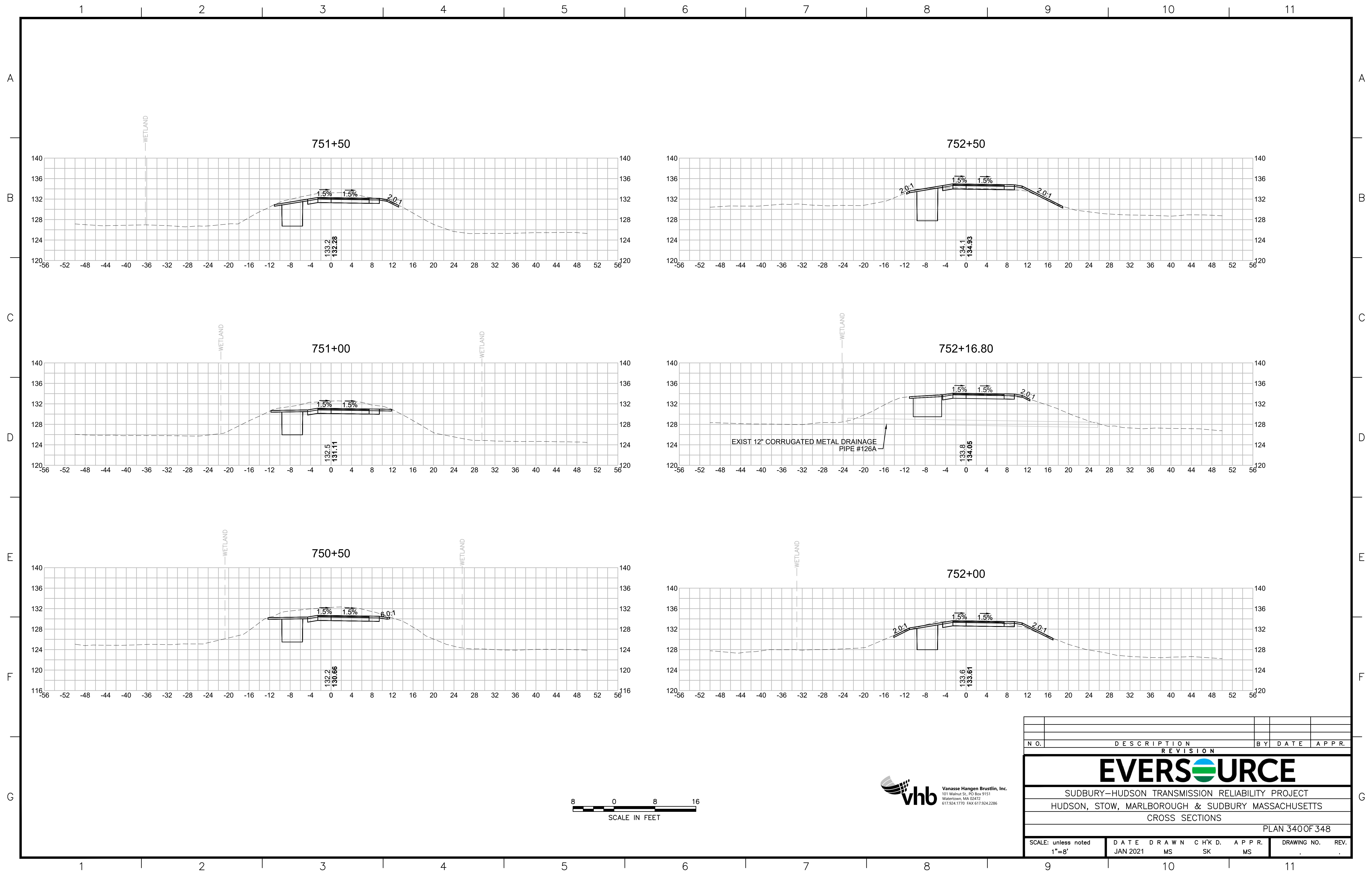
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N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 339 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

1 2 3 4 5 6 7 8 9 10 11



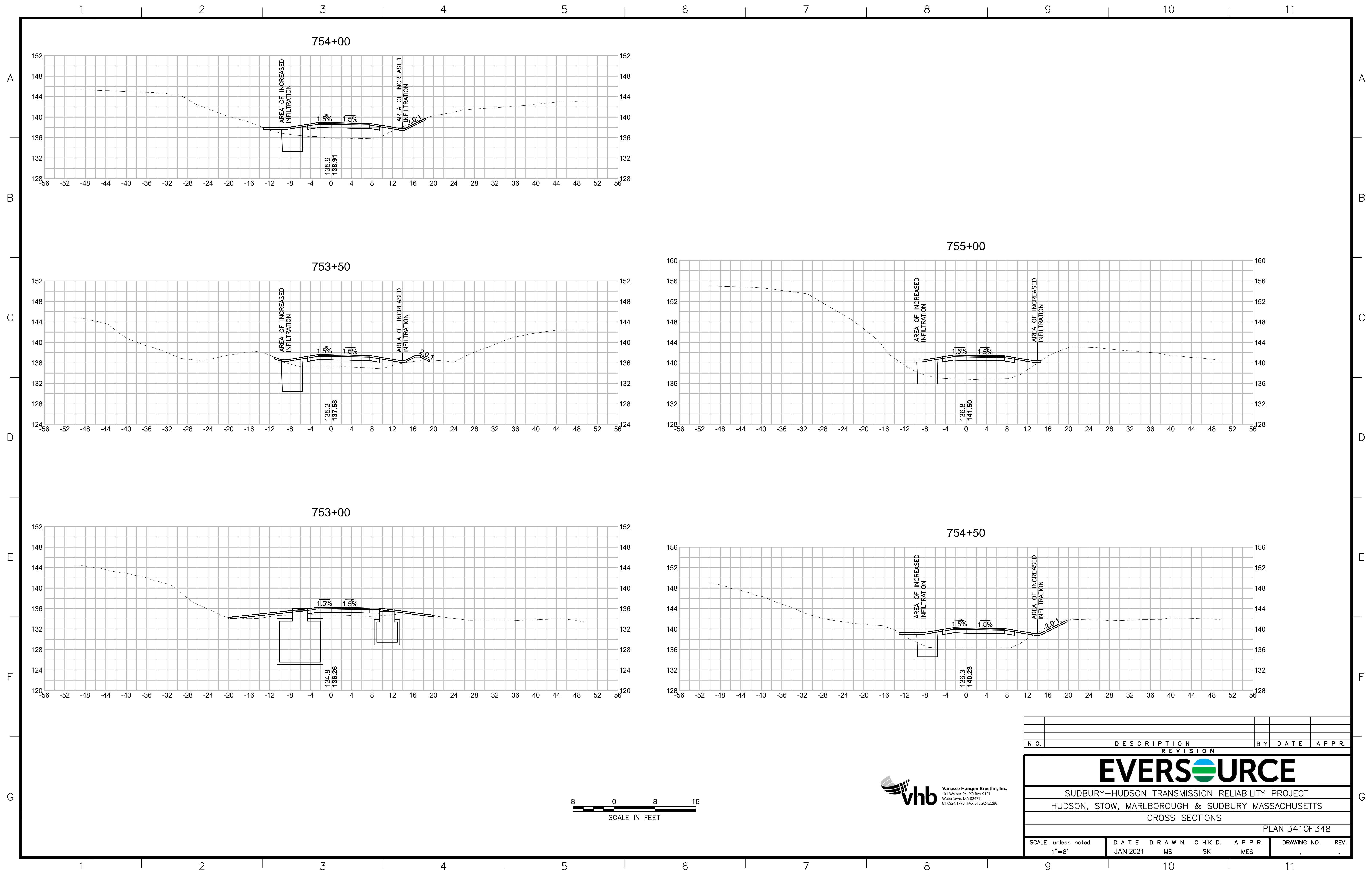
N O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			

EVERSOURCE

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

PLAN 340 OF 348

SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MS	DRAWING NO.	REV.
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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 341 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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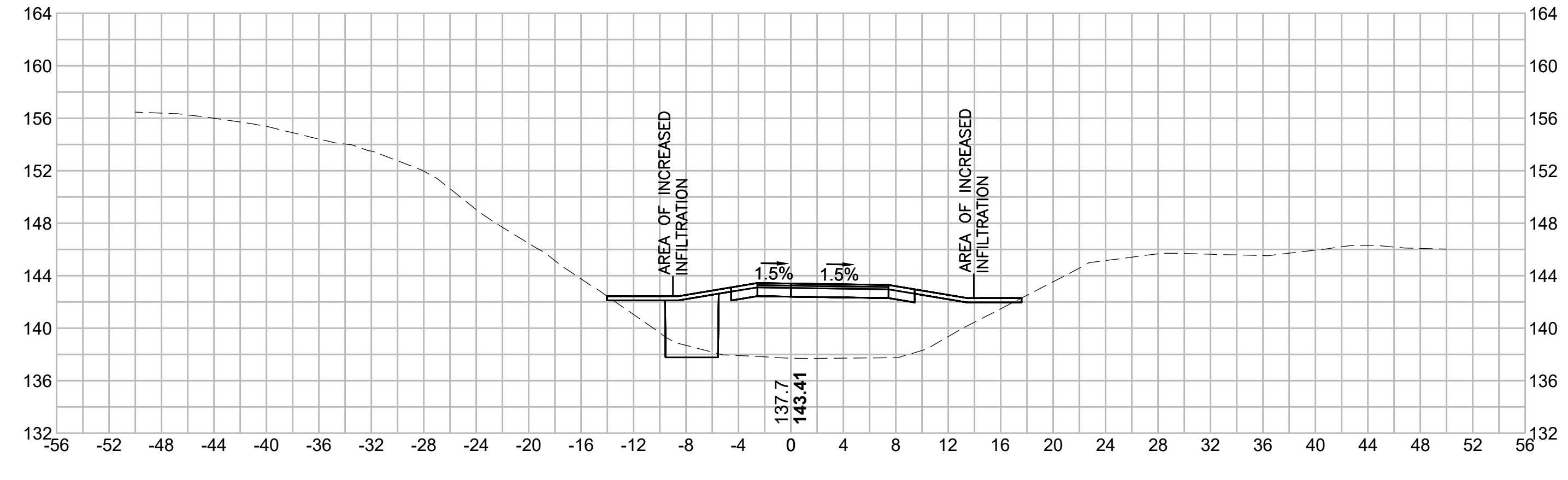
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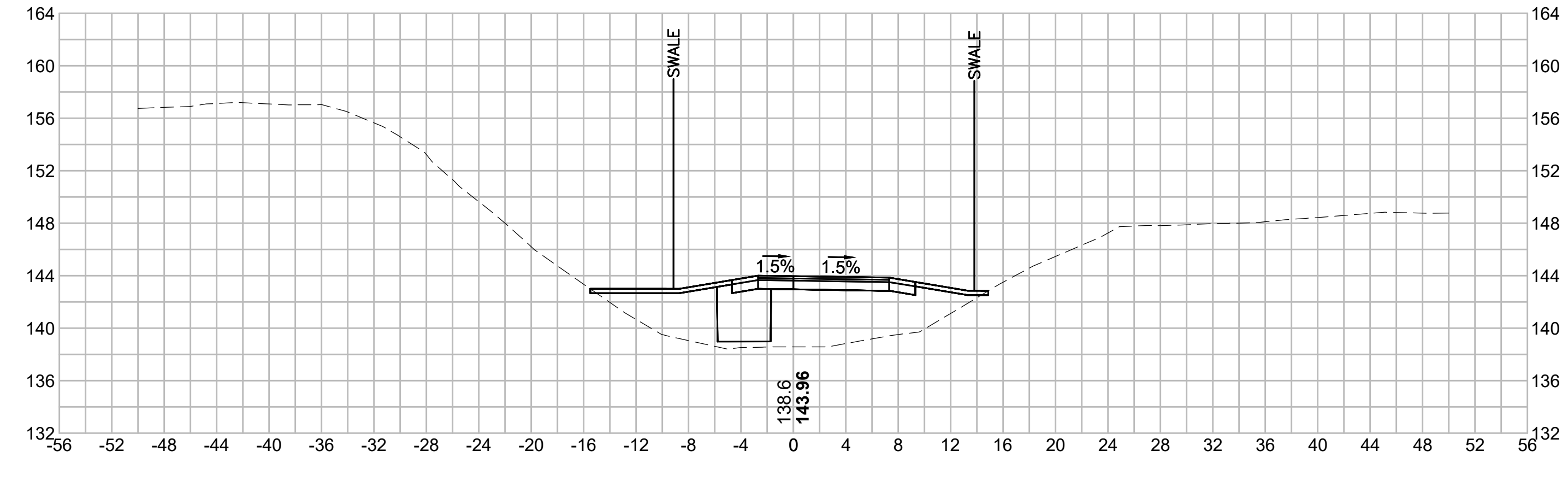
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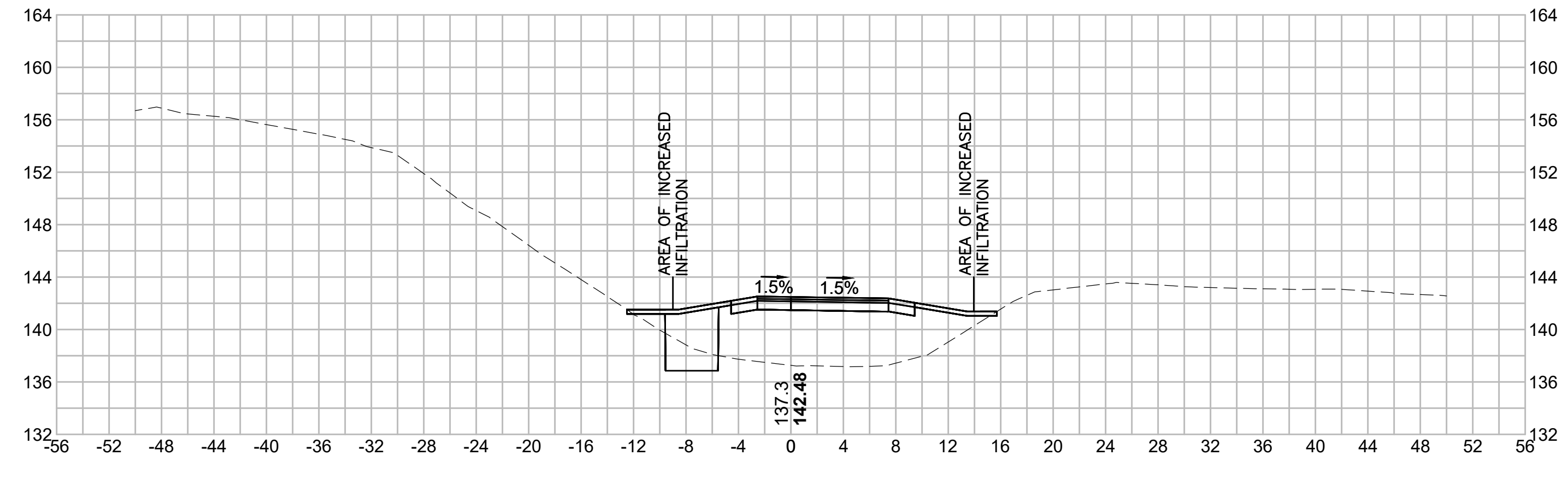
756+00



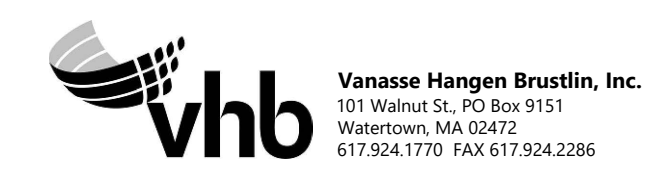
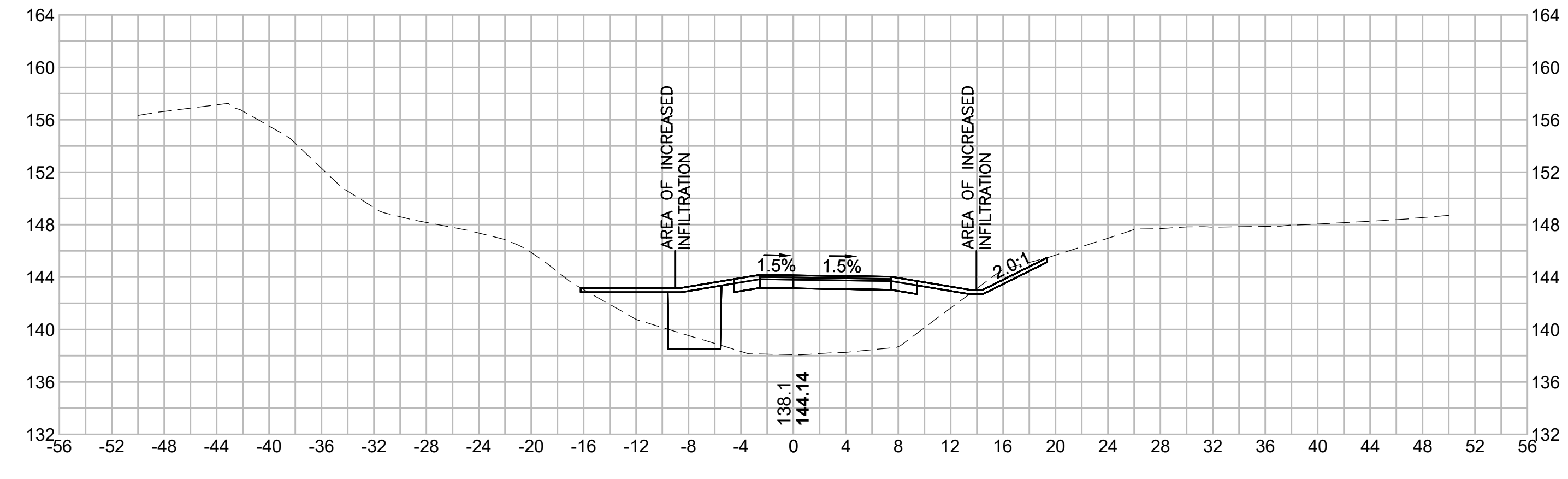
757+00



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N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 342 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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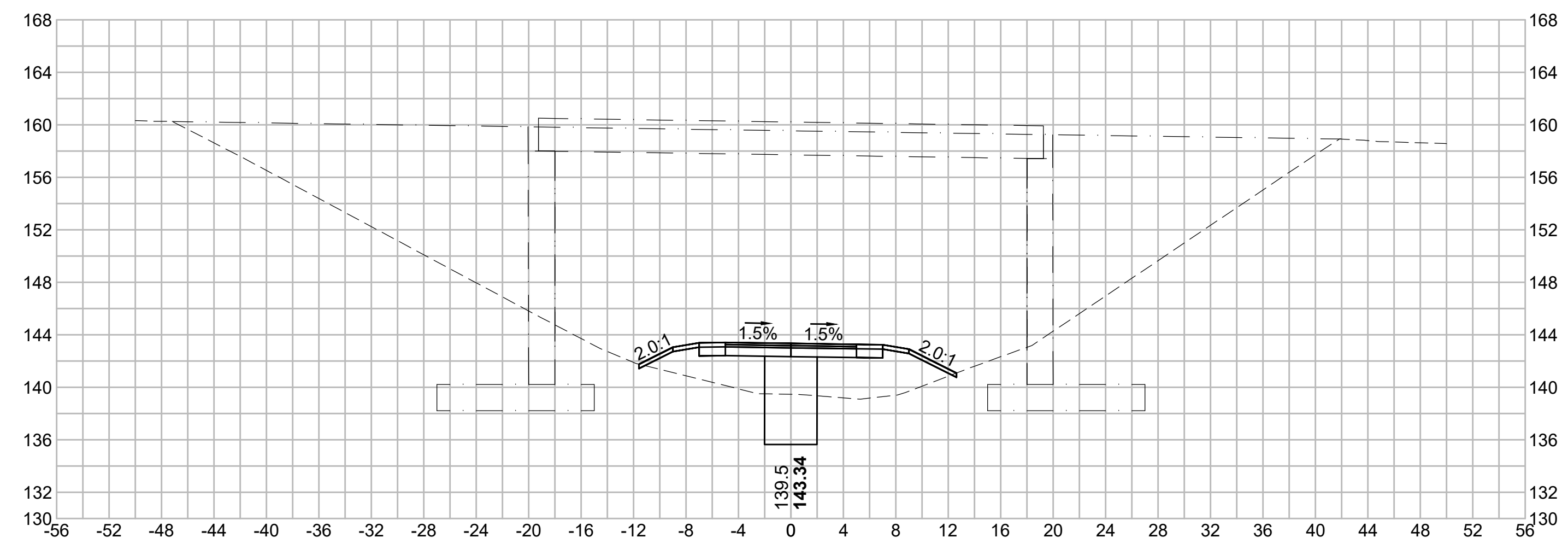
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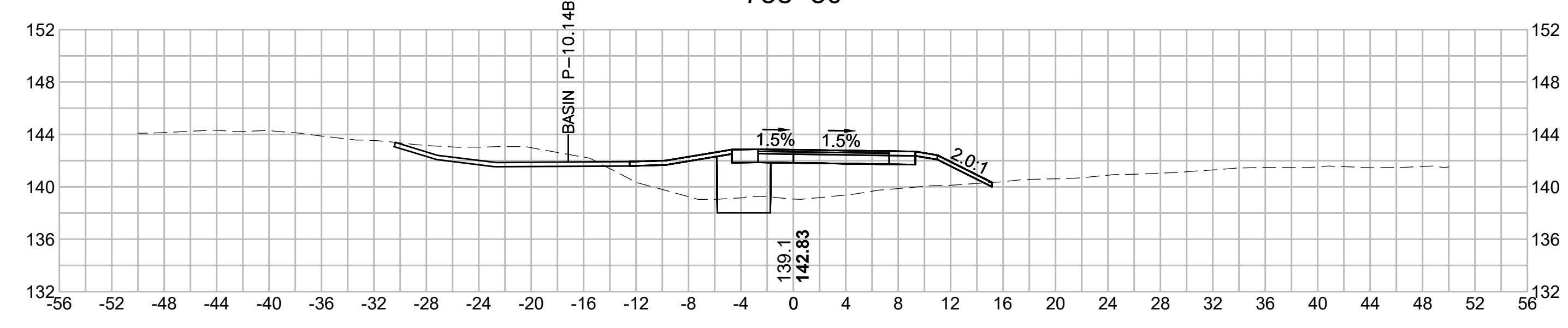
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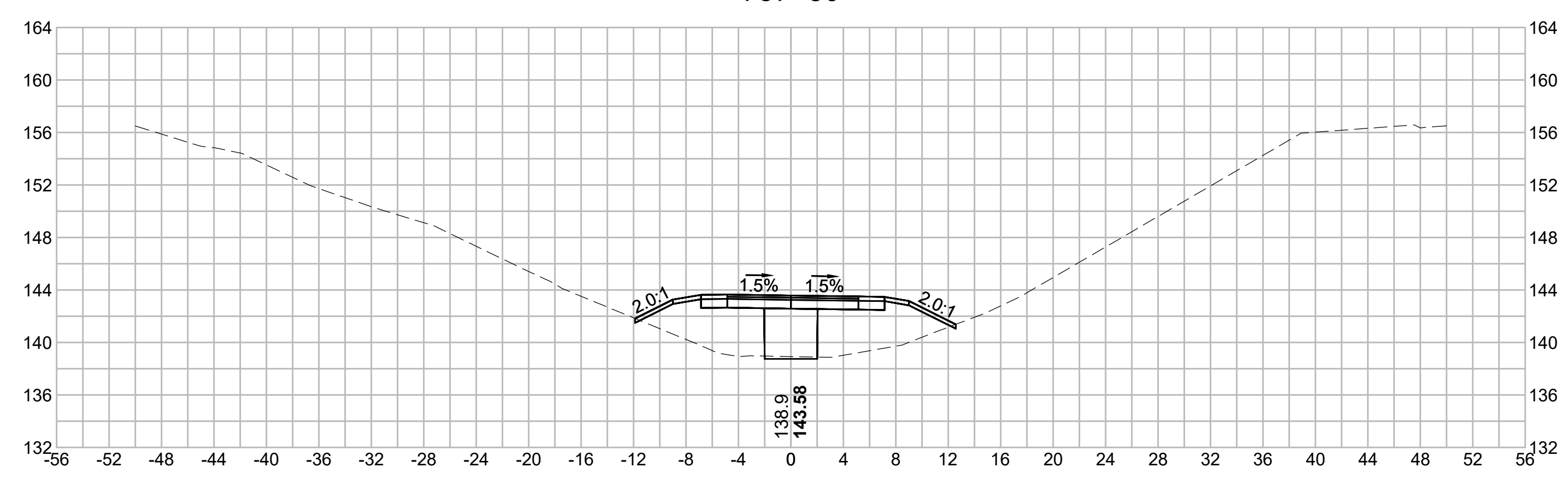
757+82.17



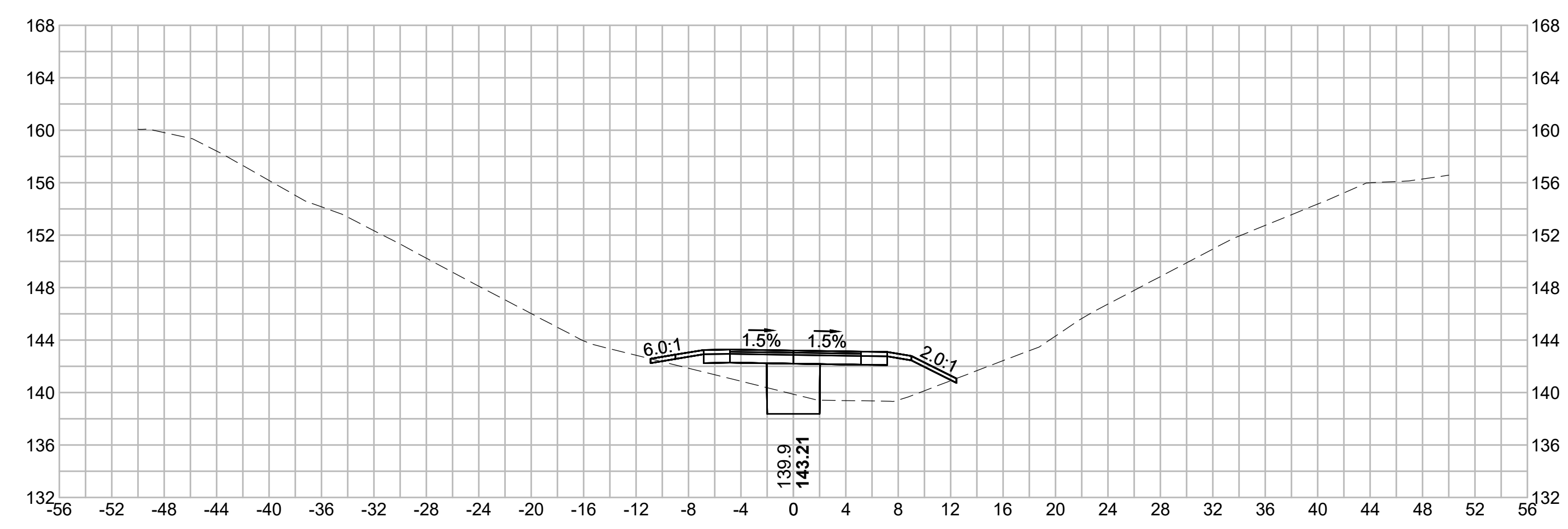
758+50



757+50



758+00



N O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
CROSS SECTIONS				
PLAN 343 OF 348				
SCALE: unless noted 1"=8'	DATE JAN 2021	DRAWN MS	CHK'D. SK	APPR. MES
DRAWING NO.	REV.			

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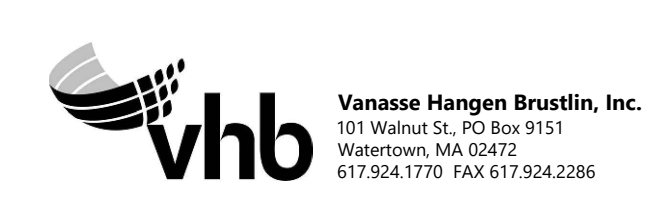
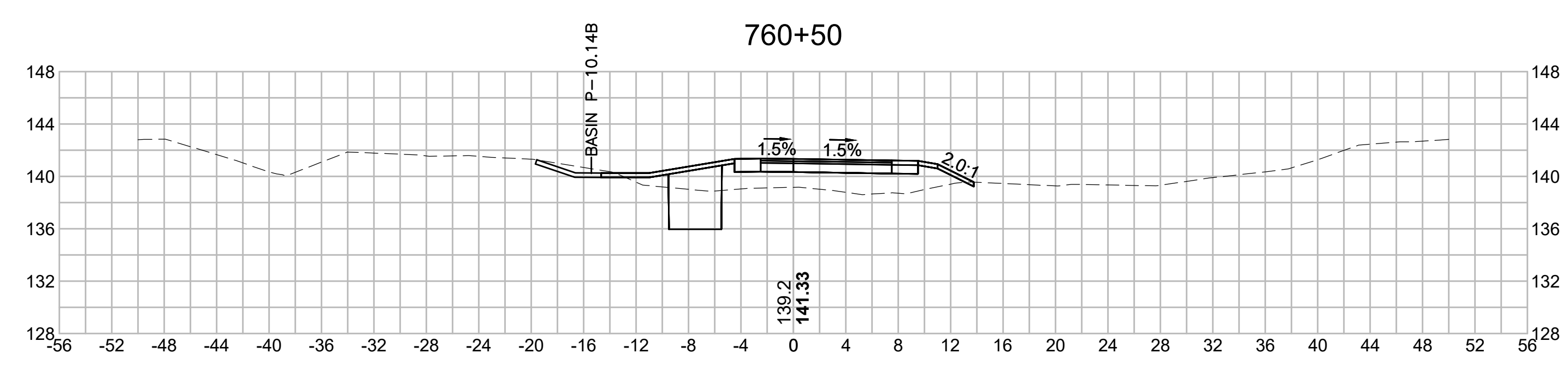
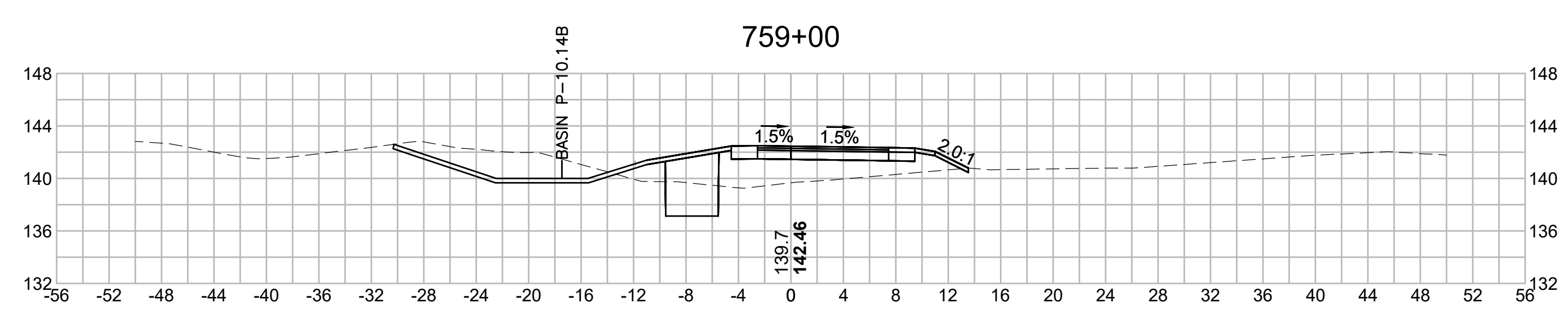
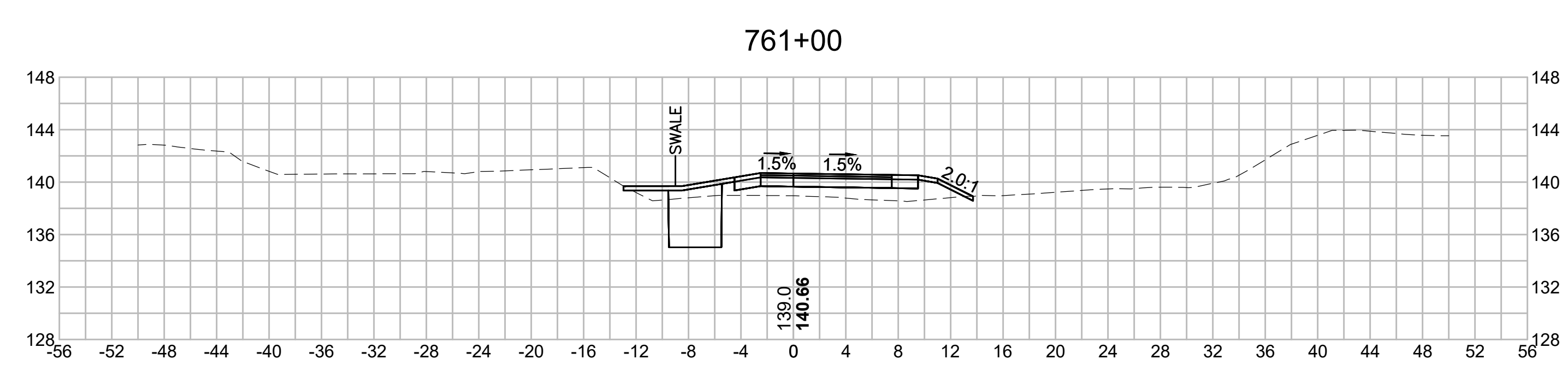
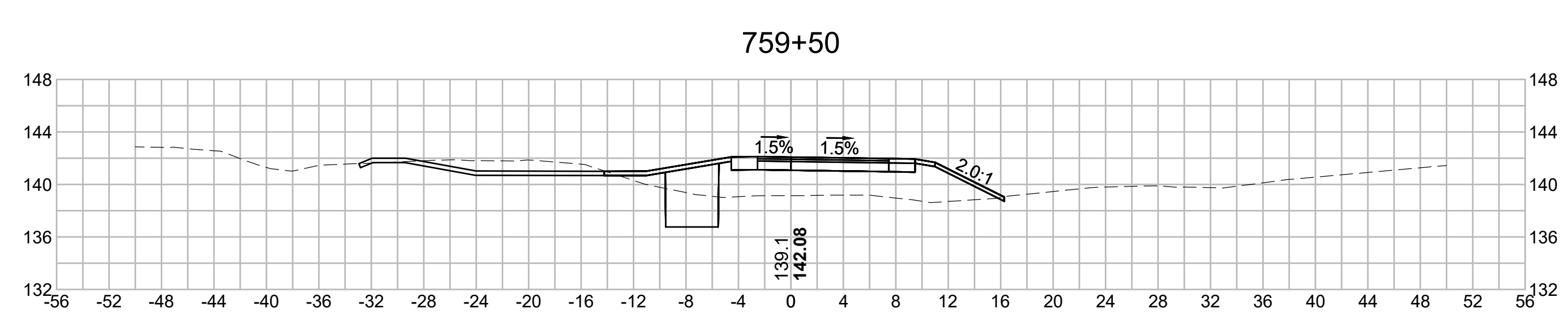
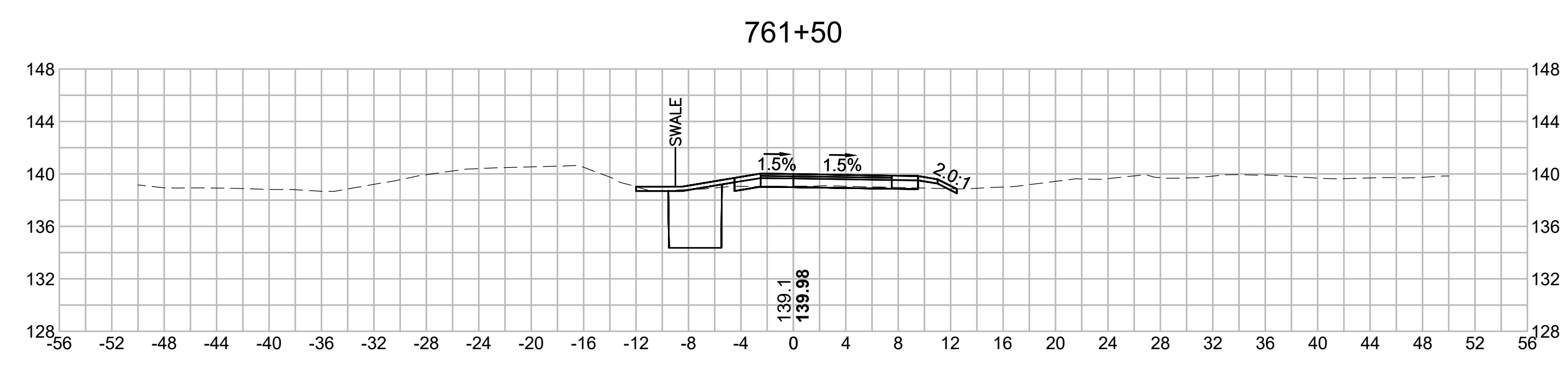
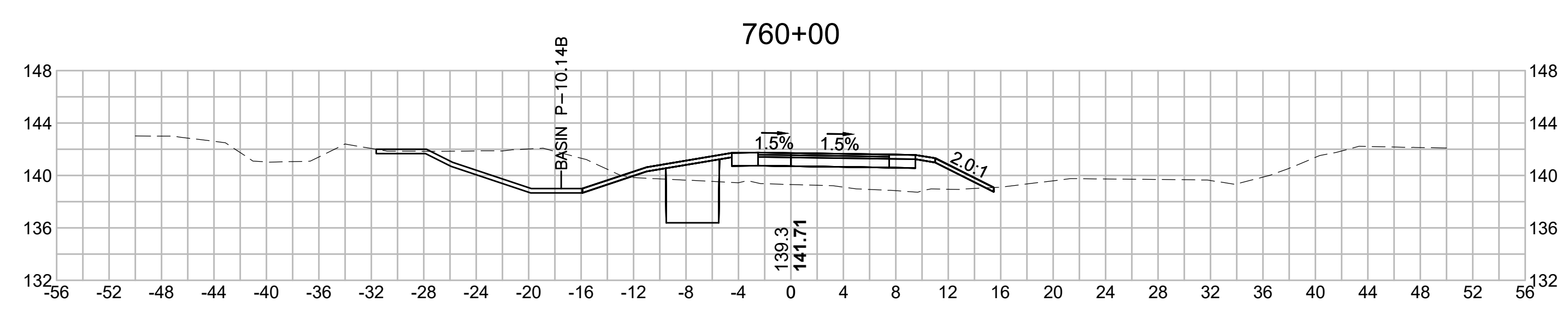
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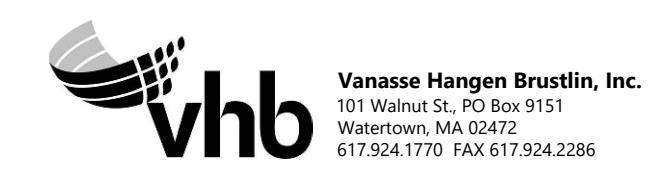
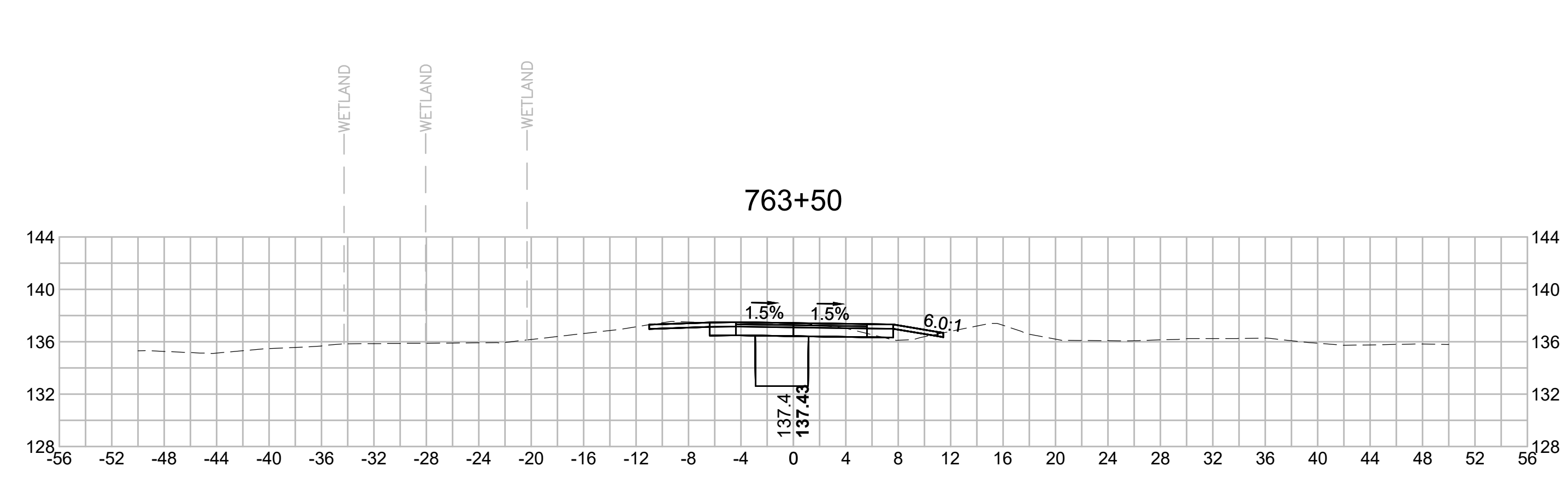
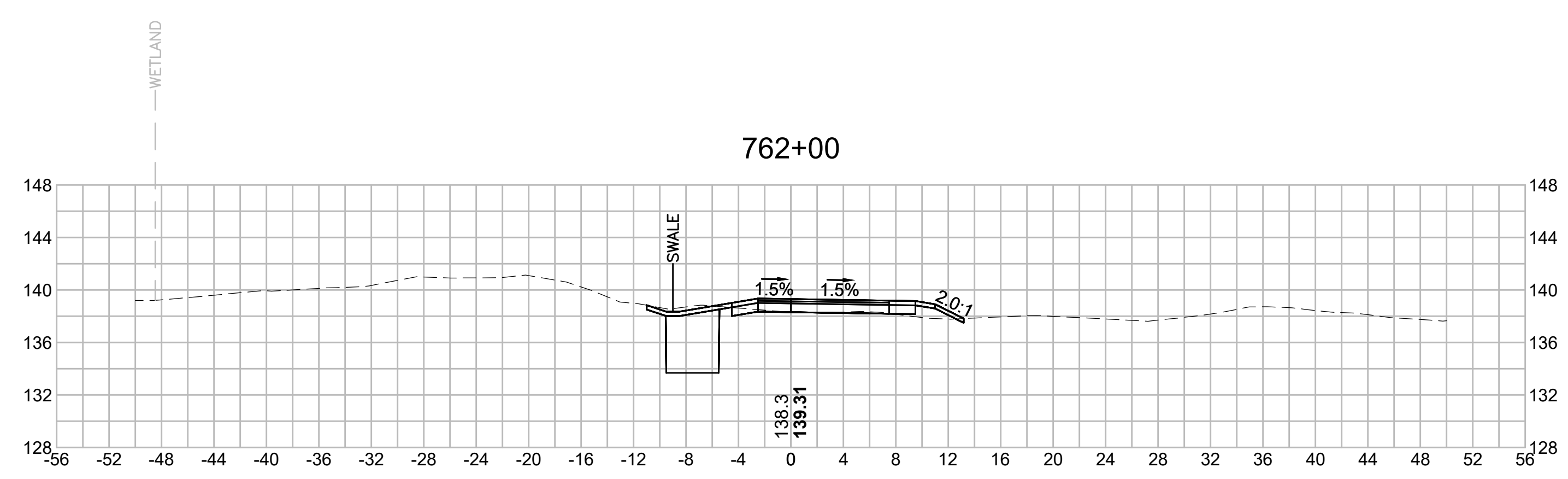
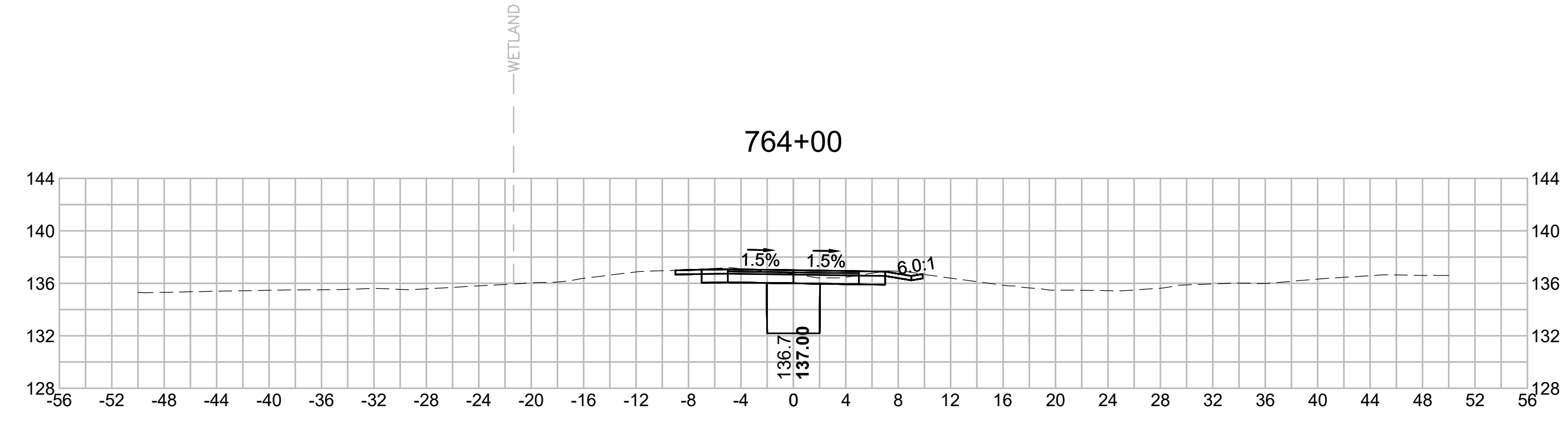
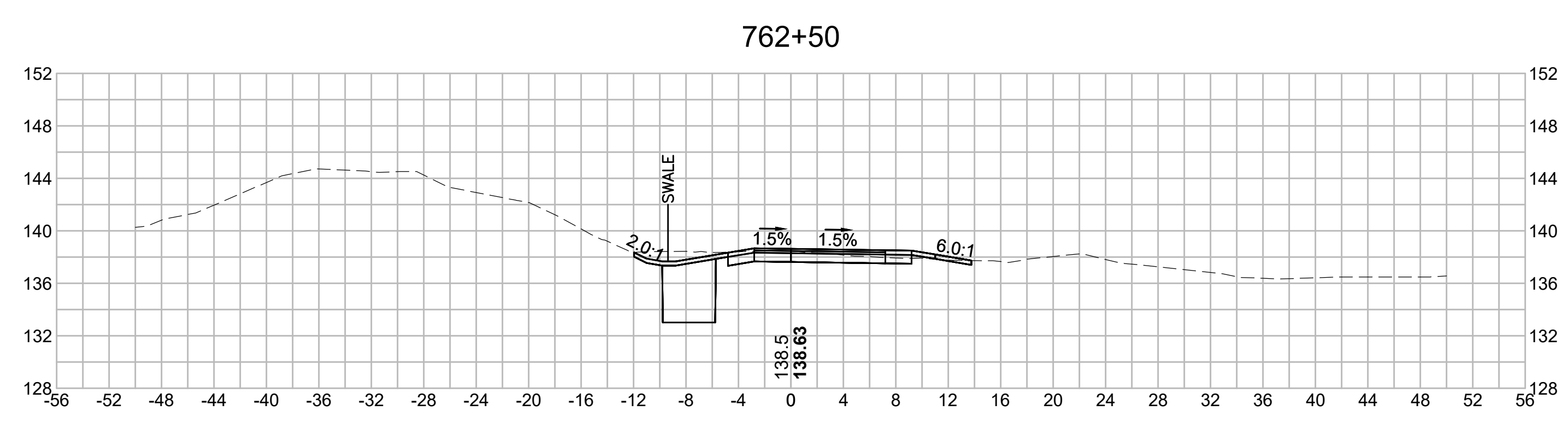
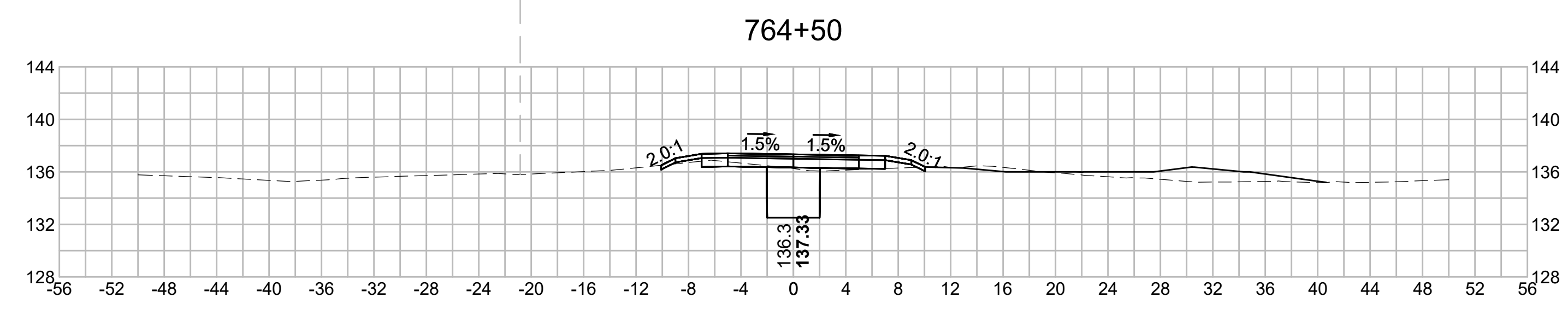
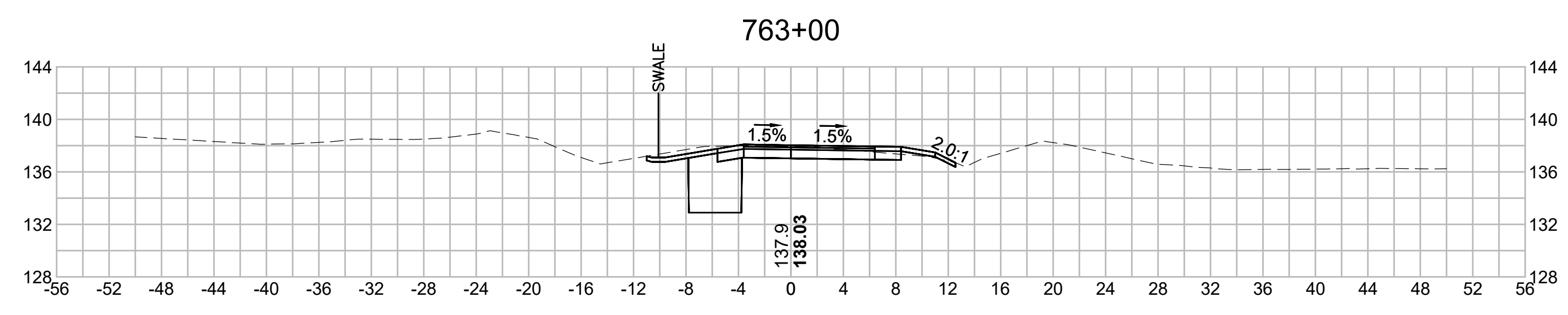
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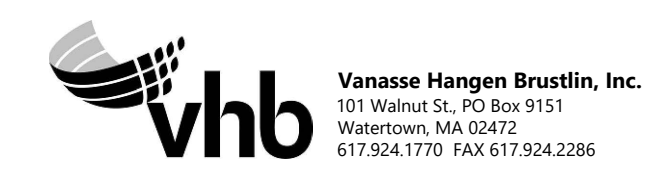
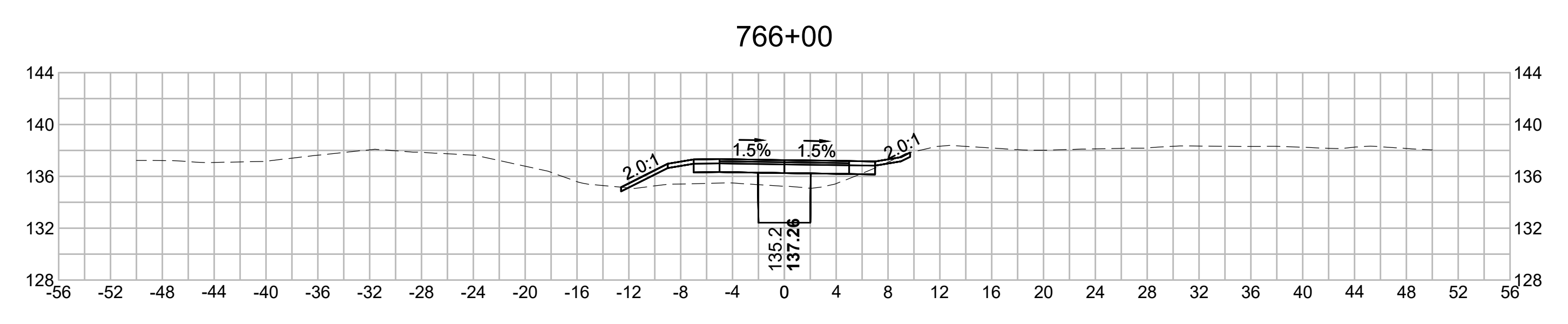
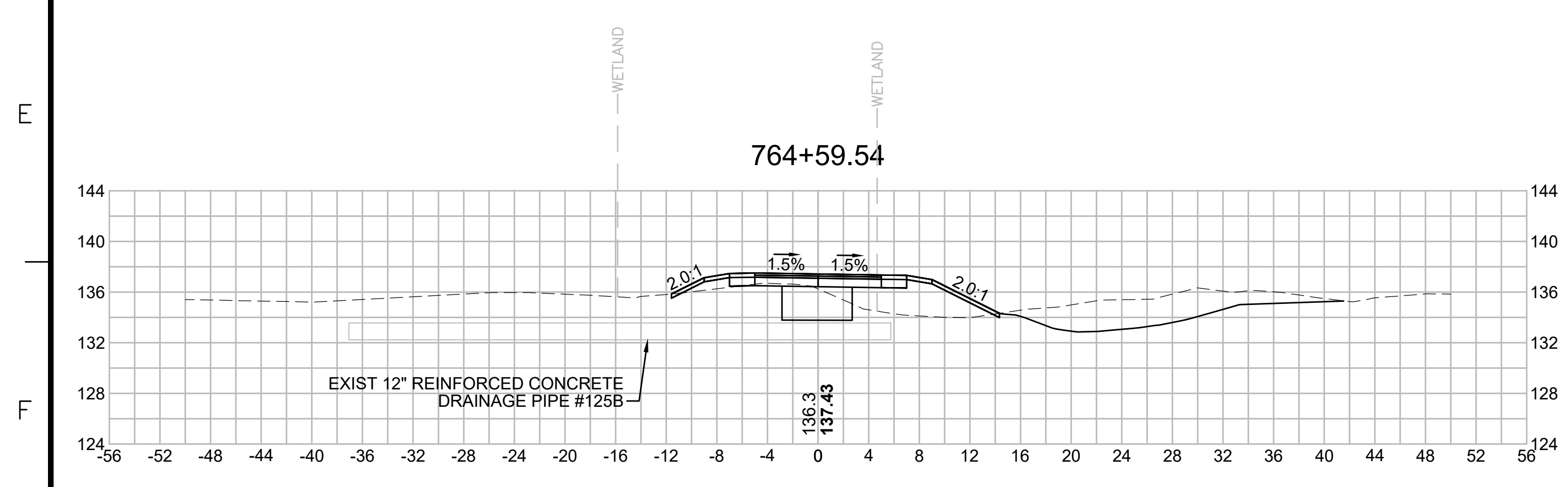
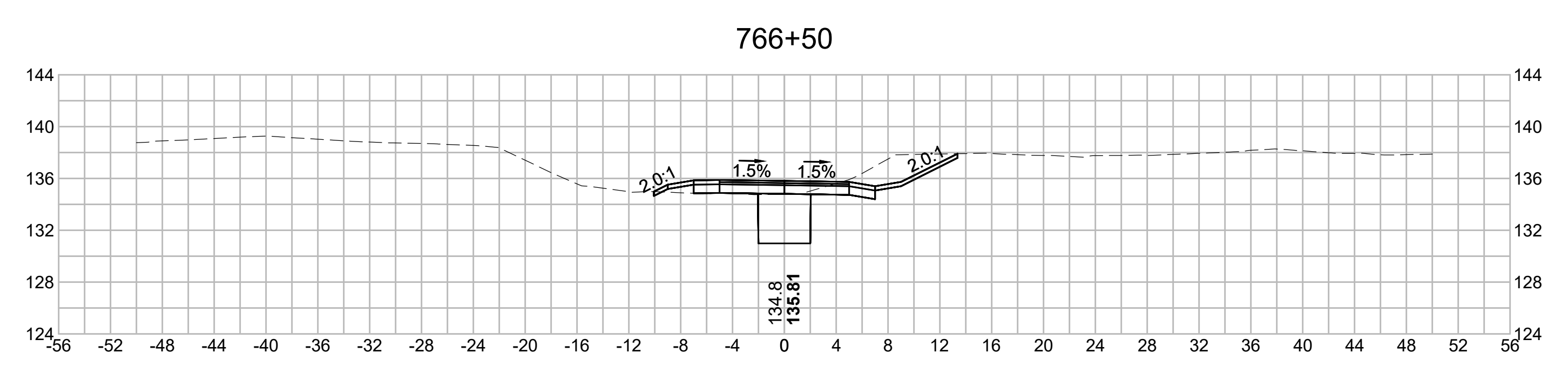
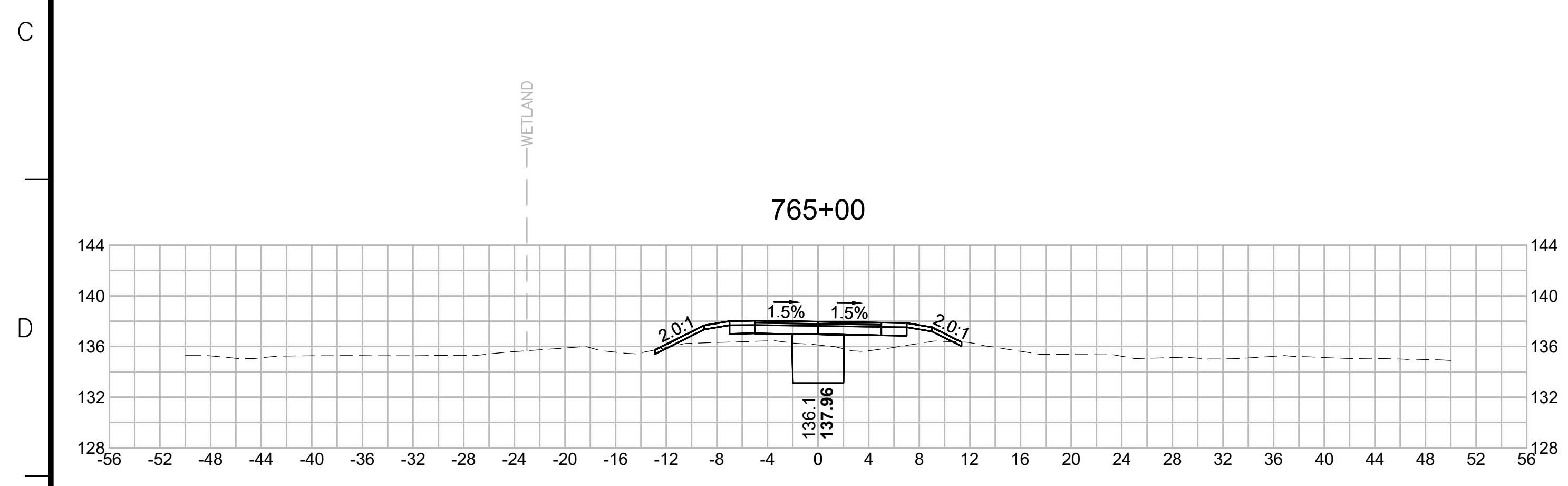
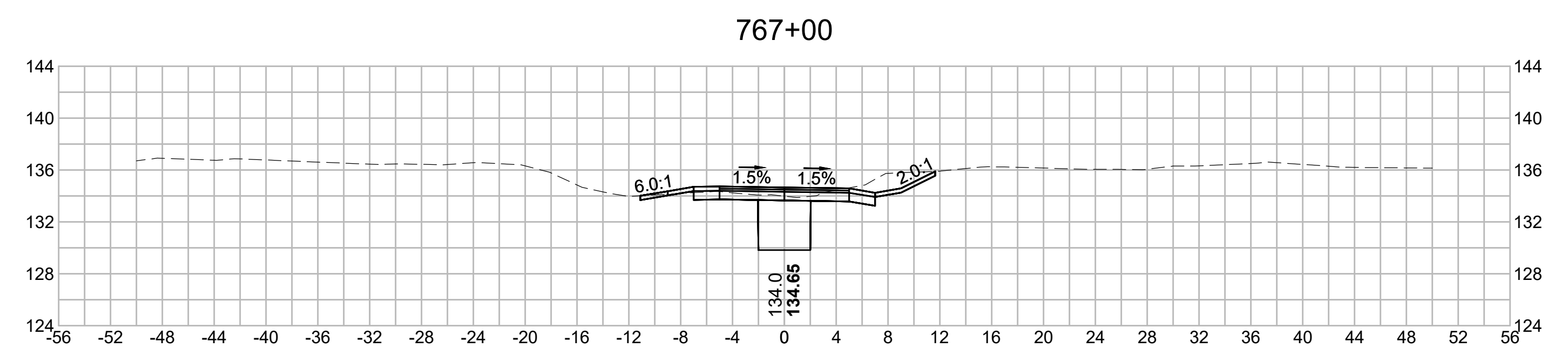
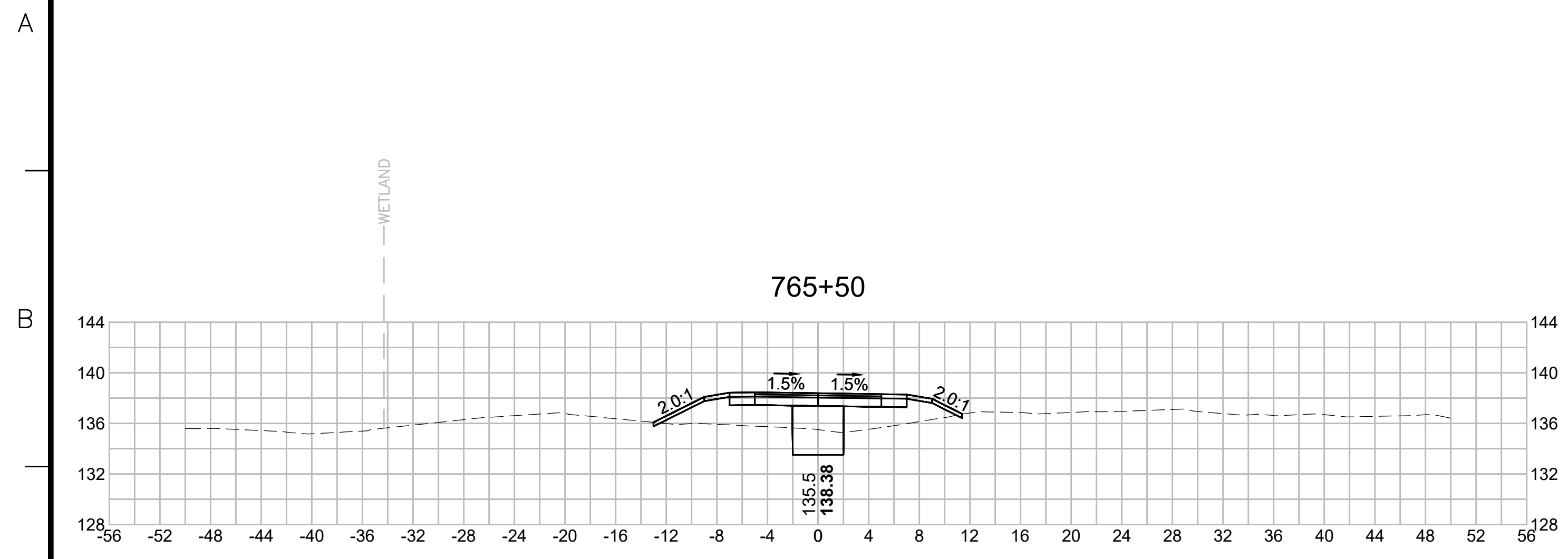
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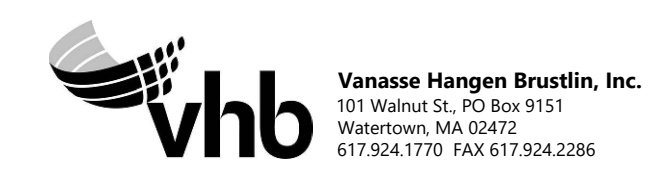
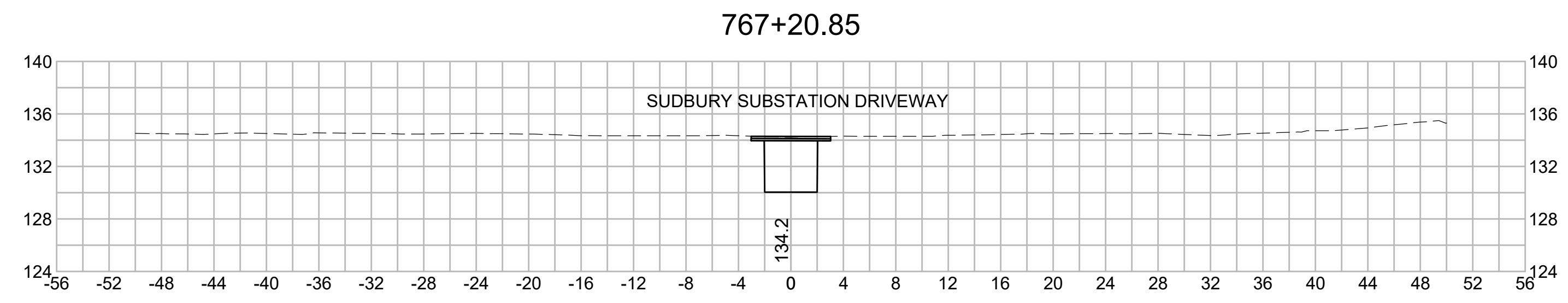
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