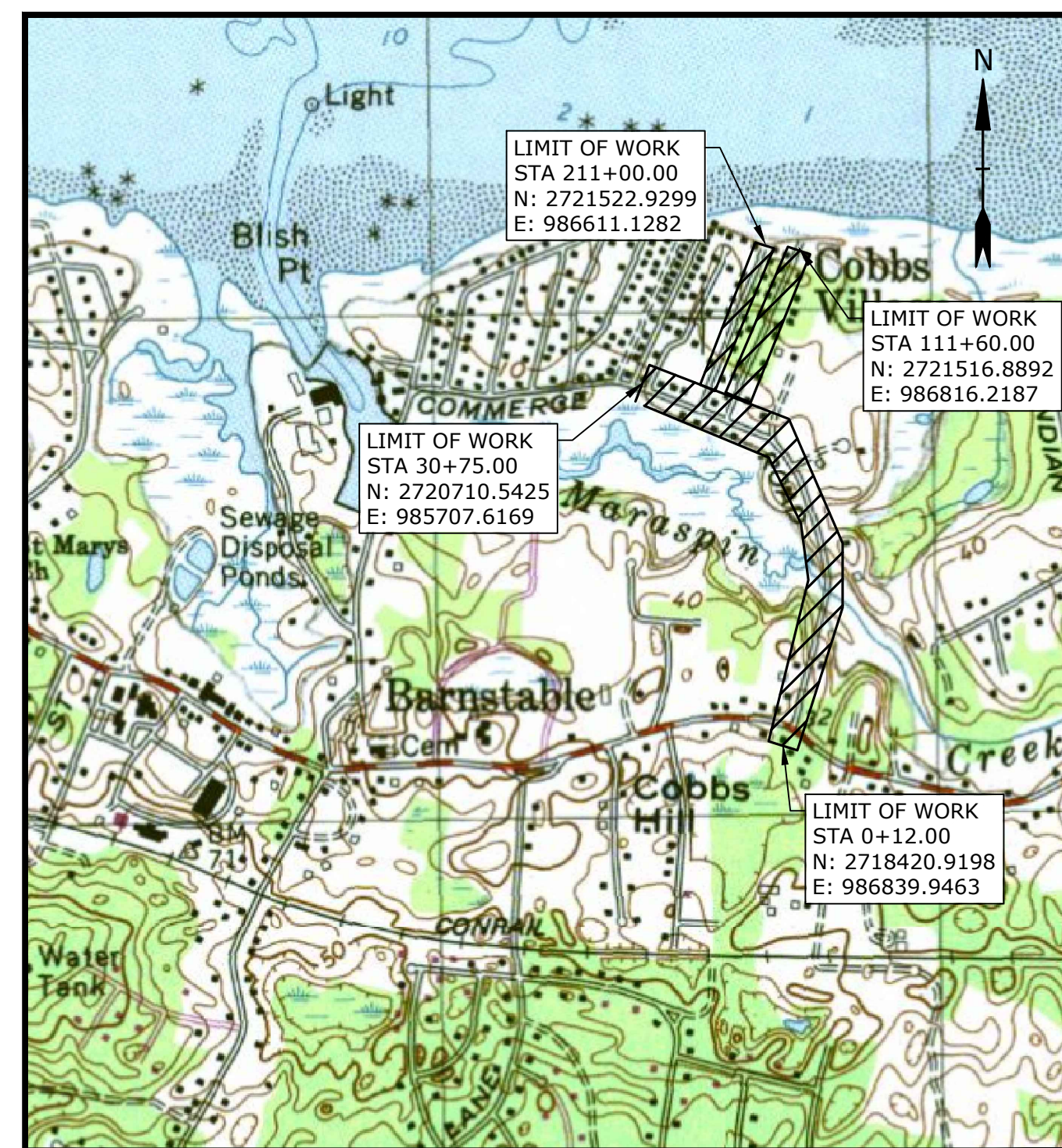


TOWN OF BARNSTABLE COMMERCE ROAD IMPROVEMENTS AND CULVERT REPLACEMENT

ALTERNATIVE DESIGN FOR PROPERTY IMPACT REDUCTION NOVEMBER 2024

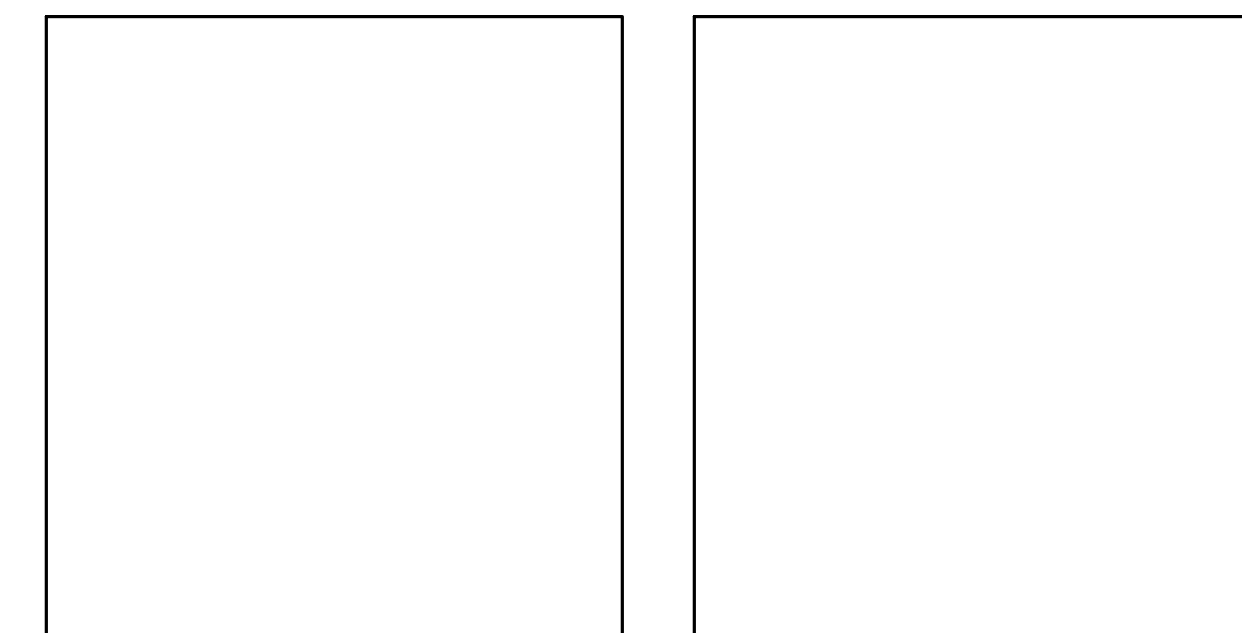
LIST OF DRAWINGS	
SHEET NO.	DRAWING TITLE
* 1	COVER SHEET
* 2	LEGEND & ABBREVIATIONS
3 - 4	GENERAL NOTES
5	KEY PLAN
** 6 - 7	TYPICAL SECTIONS
8 - 12	EXISTING CONDITIONS
** 13 - 22	CONSTRUCTION PLANS & PROFILES
23 - 27	UTILITY PLANS
28 - 30	SIGNS & PAVEMENT MARKING PLANS
31	SIGN SUMMARY
32 - 33	IMPACT PLANS
** 34 - 41	CONSTRUCTION DETAILS
42	TEMPORARY TRAFFIC CONTROL PLAN
** 43 - 71	CROSS SECTIONS
72	CULVERT NOTES
73 - 76	BORING LOGS & BORING NOTES
77	GROUND IMPROVEMENT PLAN
78	GENERAL CULVERT PLAN & ELEVATION
79	STREAM PROFILE
80	FOUNDATION PLAN & DETAILS
81	CULVERT SECTIONS & DETAILS
82	RETAINING WALL ELEVATION, SECTION, & DETAILS
83	STOP LOG DETAILS



LOCATION MAP
SCALE: 1" = 1000'

PREPARED BY:

Tighe&Bond



PREPARED FOR:

TOWN OF BARNSTABLE

DEPARTMENT OF PUBLIC WORKS
GRIFFIN BEAUDOIN, PE; TOWN ENGINEER

BARNSTABLE FIRE DISTRICT
SEAN ANDERSON; SUPERINTENDENT

* SHEETS ARE INCLUDED IN THIS DRAWING SET

** A PORTION OF THE SHEETS ARE INCLUDED IN THIS SET
TYPICAL SECTIONS SHEET 6
CONSTRUCTION PLANS & PROFILES SHEETS 13 - 17
CONSTRUCTION DETAILS SHEET 35
CROSS SECTIONS SHEETS 43 - 66

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NOT FOR CONSTRUCTION

COMPLETE SET 83 SHEETS

33 SHEETS INCLUDED IN THIS SET

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CB CATCH BASIN
		FP CATCH BASIN CURB INLET
		MB FLAG POLE
		POST SQUARE
		POST CIRCULAR
		WELL WELL
		EHH ELECTRIC HANDHOLE
		GG FENCE GATE POST
		BHL # GAS GATE
		MW # BORING HOLE
		TP # MONITORING WELL
		HYDRANT TEST PIT
		LIGHT POLE
		CO.BD. COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MHB MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		SB STONE BOUND
		TB TOWN OR CITY BOUND
		TPL or GUY TRAVERSE OR TRIANGULATION STATION
		HTP TROLLEY POLE OR GUY POLE
		UFB TRANSMISSION POLE
		UPDL UTILITY POLE W/ FIREBOX
		ULT UTILITY POLE WITH DOUBLE LIGHT
		UPL UTILITY POLE W / 1 LIGHT
		UPL UTILITY POLE
		BUSH
		STUMP
		WG SWAMP / MARSH
		WG WATER GATE
		WG WATER SHUT-OFF
		OE OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		SD UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		E.D. UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		G UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		SS UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		T UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		W UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		TOP BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		FEMA FLOOD ZONE AE
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		RETAINING WALL
		WETLAND REPLICATION
		SALT MARSH
		DUMPED RIPRAP
		WETLANDS FILL AREA
		GROUND IMPROVEMENT
		STREAM RESTORATION
		SALT MARSH RESTORATION
		200 FT RIVERFRONT AREA
		STREAMBED MATERIAL

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL		CONC	CONCRETE
AADT	ANNUAL AVERAGE DAILY TRAFFIC	CONT	CONTINUOUS
ABAN	ABANDON	CONST	CONSTRUCTION
ADJ	ADJUST	CR GR	CROWN GRADE
APPROX.	APPROXIMATE	DEC	DECIDUOUS TREE
A.C.	ASPHALT CONCRETE	DHV	DESIGN HOURLY VOLUME
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE	DI	DROP INLET
BIT.	BITUMINOUS	DIA	DIAMETER
BC	BOTTOM OF CURB	DIP	DUCTILE IRON PIPE
BD.	BOUND	DMH	DRAINAGE MAN HOLE
BL	BASELINE	DWP	DETECTABLE WARNING PANEL
BLDG	BUILDING	DWY	DRIVEWAY
BLDR	BOULDER	ELEV (or EL.)	ELEVATION
BM	BENCHMARK	EMB	EMBANKMENT
BO	BY OTHERS	EOP (or EP)	EDGE OF PAVEMENT
BOS	BOTTOM OF SLOPE	EXIST (or EX)	EXISTING
BR.	BRIDGE	EXC	EXCAVATION
CB	CATCH BASIN	F&C	FRAME AND COVER
CBCI	CATCH BASIN WITH CURB INLET	F&G	FRAME AND GRATE
CC	CEMENT CONCRETE	FDN.	FOUNDATION
CCB	CEMENT CONCRETE BERM	GD	GROUND
CCM	CEMENT CONCRETE MASONRY	GG	GAS GATE
CEM	CEMENT	GI	GUTTER INLET
CI	CURB INLET	GIP	GALVANIZED IRON PIPE
CIP	CAST IRON PIPE	GPL	GUY POLE
CLF	CHAIN LINK FENCE	GRAN	GRANITE
CL	CENTERLINE	GRAV	GRAVEL
CMP	CORRUGATED METAL PIPE	GRD	GUARD
CSP	CORRUGATED STEEL PIPE	GW (or GUY)	GUY WIRE
CO.	COUNTY	HDPE	HIGH DENSITY POLYETHYLENE
CON	CONIFEROUS TREE	HDW	HEADWALL
		HMA	HOT MIX ASPHALT

ABBREVIATIONS (CONTINUED)

GENERAL	
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PROT	PROTECT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TMH	TELEPHONE MAN HOLE
TOS	TOP OF SLOPE
TWP	TACTILE WARNING PANEL
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WS	WATER STOP
WSO	WATER SHUT-OFF
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE#	0633-007 LEGEND_ABBREV_GENERAL NOTES.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

LEGEND & ABBREVIATIONS

SCALE: NO SCALE

Last Saved: 1/22/2024 11:02am By: MCDermott
 Plotted On: Nov 15, 2024 11:11:02am By: MCDermott
 Figure & Symbol: 1/22/2024 11:02am By: MCDermott
 Commerce Road Culvert Property Impact Reduction Alt Design/0633-007 LEGEND_ABBREV_GENERAL NOTES.dwg

PAVEMENT NOTES

PAVEMENT NOTES

ASPHALT EMULSION FOR TACK COAT APPLIED AT 0.07 GAL/SY OVER SMOOTH SURFACES AND 0.08 GAL/SY OVER MILLED SURFACES

IN SITU MATERIAL MEETING APPLICABLE MATERIAL SPECIFICATIONS SHALL REMAIN

PROPOSED FULL DEPTH RECONSTRUCTION

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

BASE: 4" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) MATERIAL PLACED IN ONE LIFT

SUBBASE: 4" DENSE GRADED CRUSHED STONE
8" GRAVEL BORROW, TYPE B

PROPOSED MINOR BOX WIDENING (≤ 4')

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

BASE: 9" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE

PROPOSED HMA WALK

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
1.5" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

BASE: 8" GRAVEL BORROW, TYPE B

PROPOSED HMA DRIVEWAY APRON

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
2.5" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

BASE: SUITABLE EXCAVATED MATERIAL OR 8" GRAVEL BORROW, TYPE B

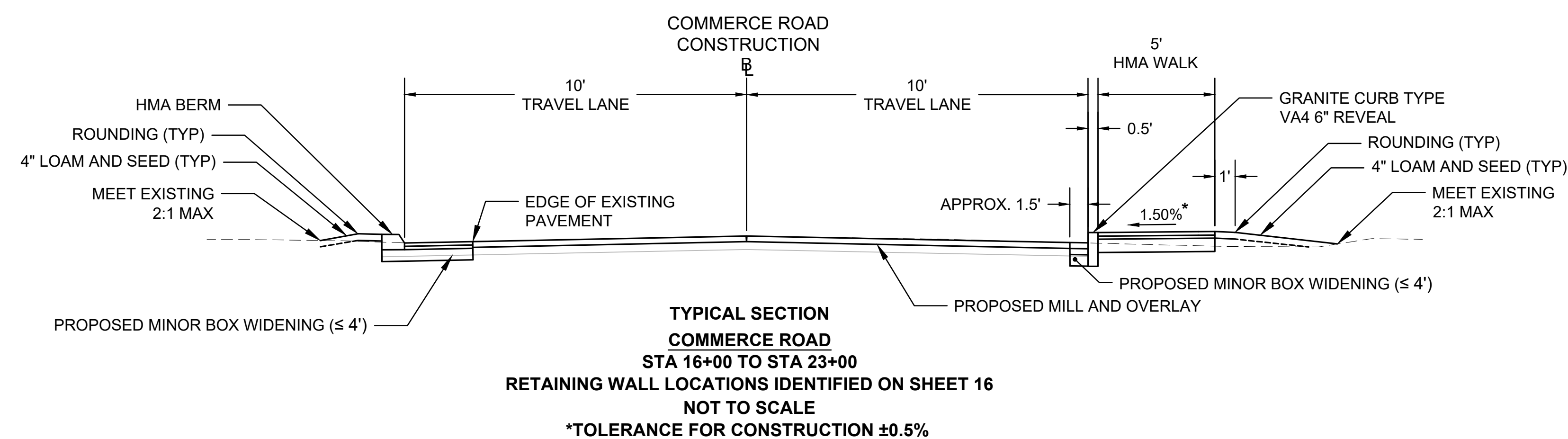
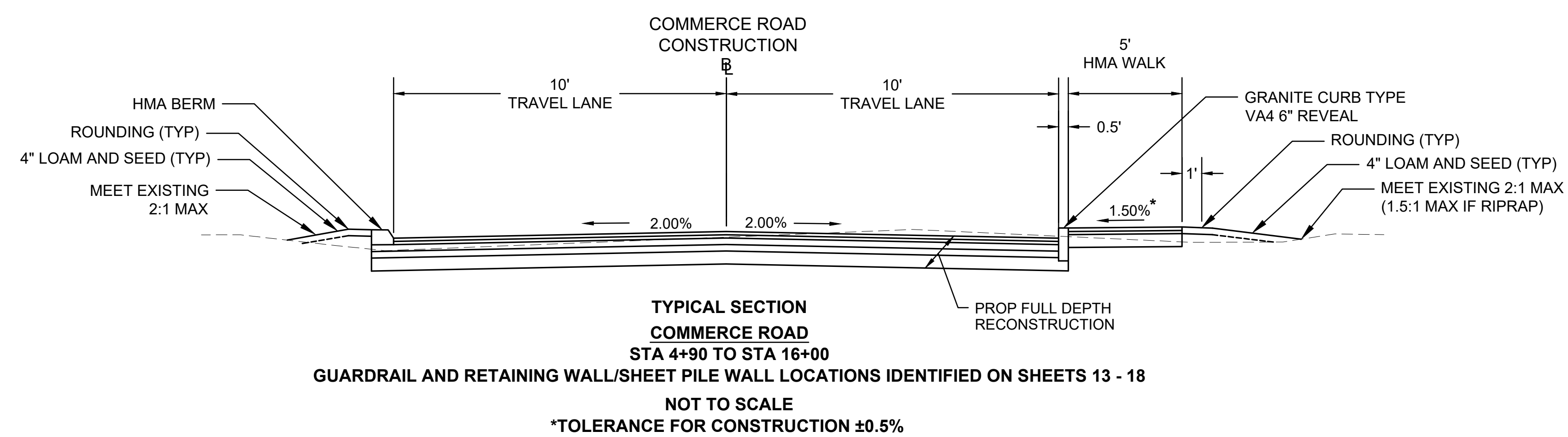
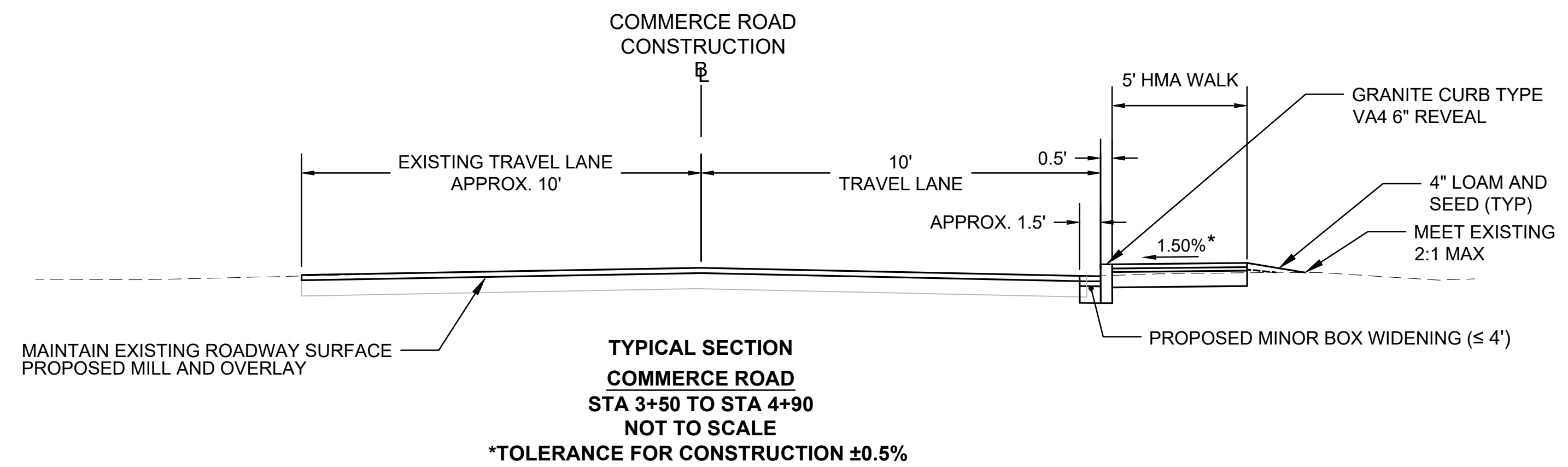
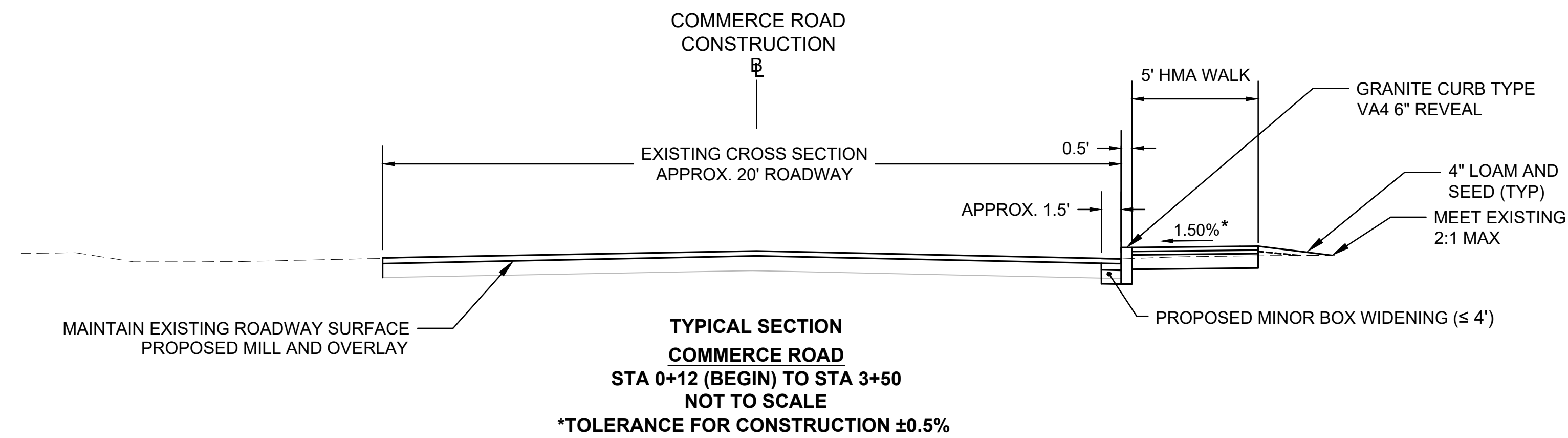
PROPOSED TEMPORARY HMA TRENCH PATCH

SURFACE: 2.5" TEMPORARY ASPHALT PATCHING

BASE: SUITABLE EXCAVATED MATERIAL OR 19.5" GRAVEL BORROW, TYPE B

PROPOSED MILL AND OVERLAY

1.5" PAVEMENT MILLING
SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 TYPICAL SECTION.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

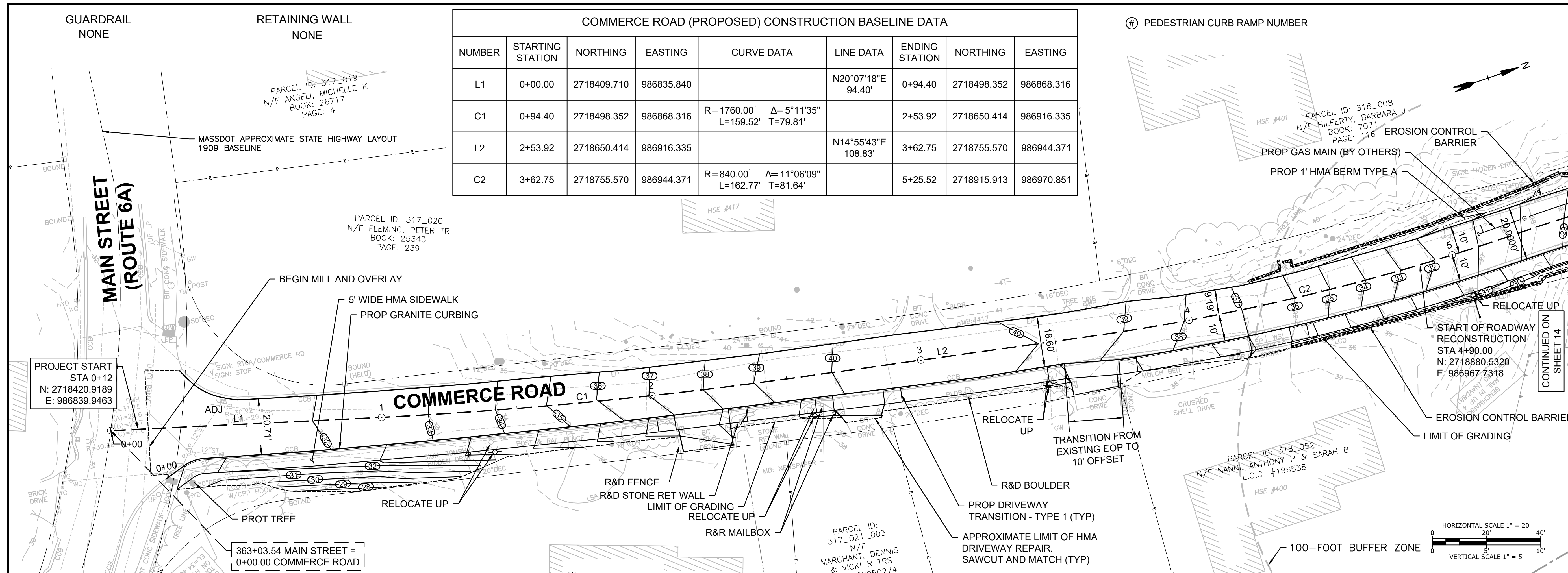
TYPICAL SECTIONS (SHEET 1 OF 2)

SCALE: NO SCALE

SHEET 6 OF 83

COMMERCE ROAD (PROPOSED) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	0+00.00	2718409.710	986835.840		N20°07'18"E 94.40'	0+94.40	2718498.352	986868.316
C1	0+94.40	2718498.352	986868.316	R = 1760.00' Δ = 5°11'35" L = 159.52' T = 79.81'		2+53.92	2718650.414	986916.335
L2	2+53.92	2718650.414	986916.335		N14°55'43"E 108.83'	3+62.75	2718755.570	986944.371
C2	3+62.75	2718755.570	986944.371	R = 840.00' Δ = 11°06'09" L = 162.77' T = 81.64'		5+25.52	2718915.913	986970.851

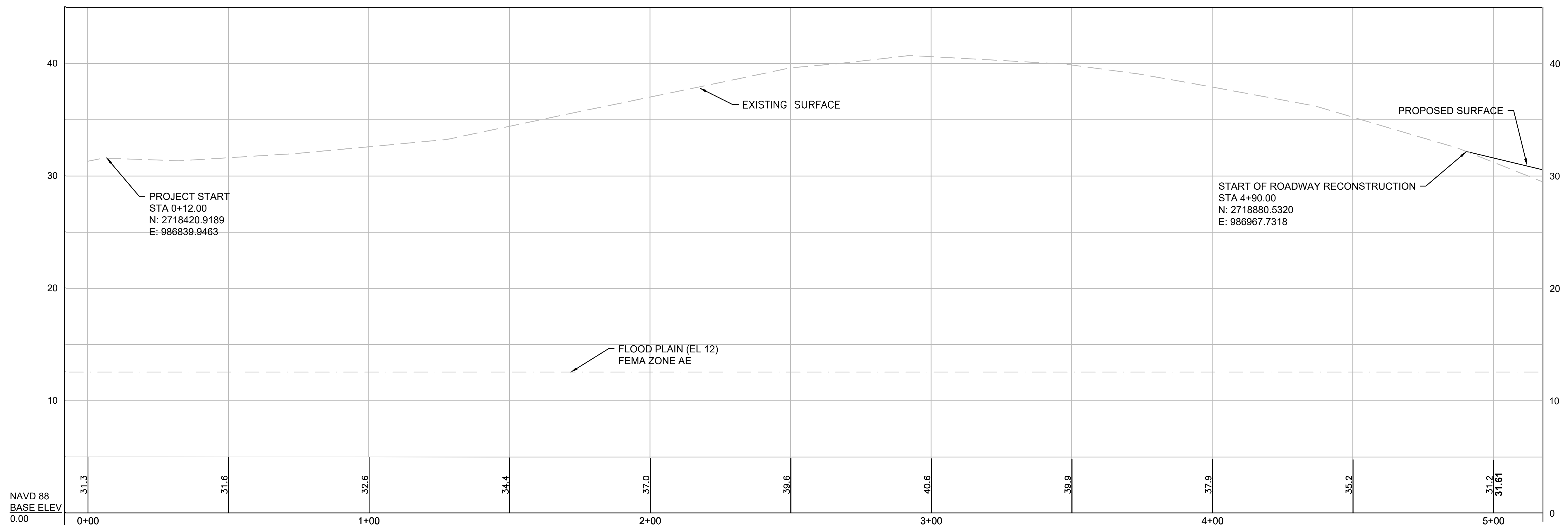
Ⓢ PEDESTRIAN CURB RAMP NUMBER



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NOTE: MEAN LOW WATER (MLW) IS -5.39'



Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts

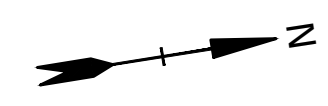
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PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 CONSTRUCTION PLANS_all.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION PLANS & PROFILES (SHEET 1 OF 10)

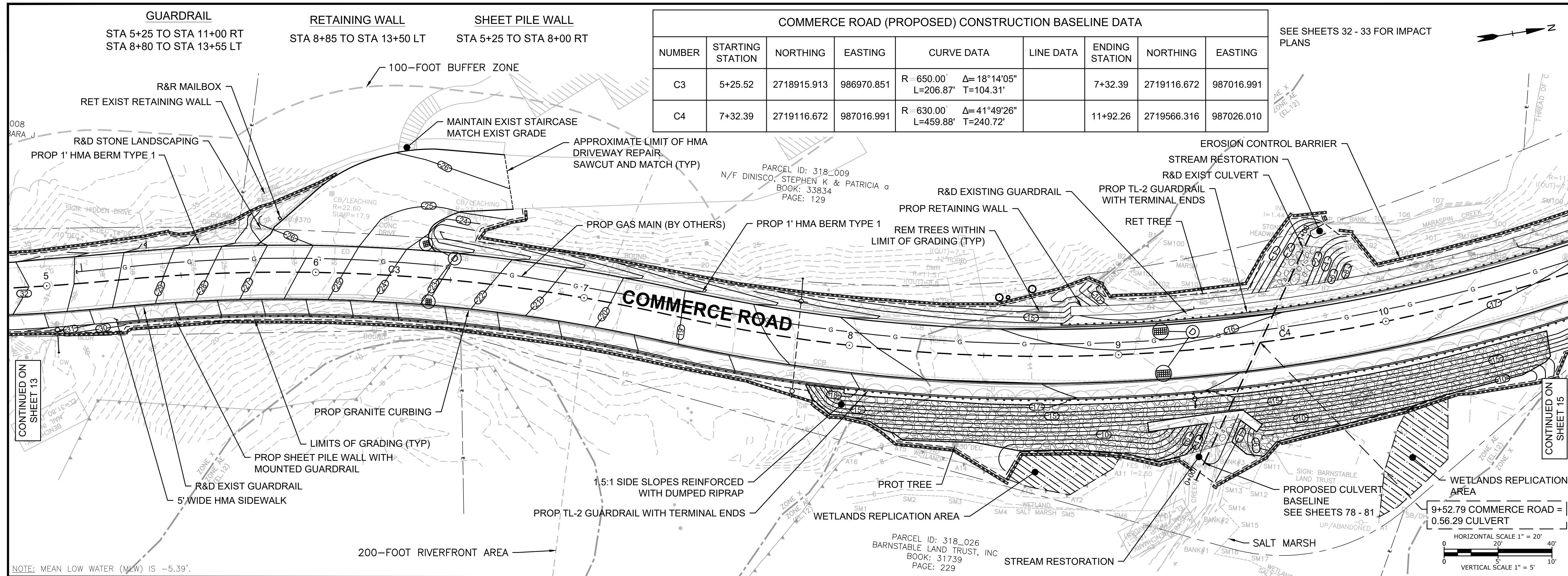
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 Printed On: Nov 15, 2024 11:03am
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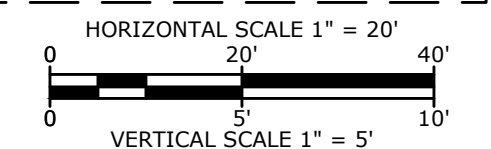
SEE SHEETS 32 - 33 FOR IMPACT PLANS



COMMERCE ROAD (PROPOSED) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C3	5+25.52	2718915.913	986970.851	R = 650.00' Δ = 18°14'05" L = 206.87' T = 104.31'		7+32.39	2719116.672	987016.991
C4	7+32.39	2719116.672	987016.991	R = 630.00' Δ = 41°49'26" L = 459.88' T = 240.72'		11+92.26	2719566.316	987026.010



NOTE: MEAN LOW WATER (MLW) IS -5.39'



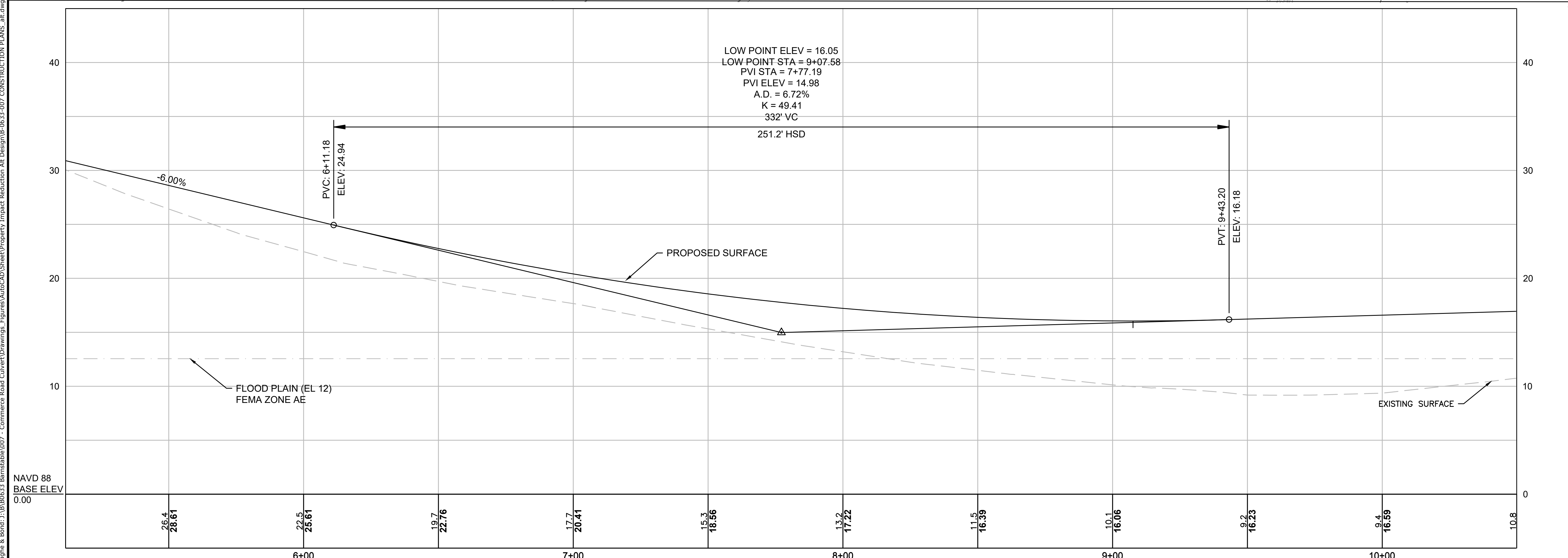
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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts



MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 CONSTRUCTION PLANS_alt.dwg	
DRAWN BY:	MMB	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION PLANS & PROFILES (SHEET 2 OF 10)

SCALE: AS SHOWN

Last Saved: 11/15/2024 11:04am By: MCDermott
 Project: 11/15/2024 11:04am By: MCDermott
 Title: B-0633-007 CONSTRUCTION PLANS Alt.dwg
 Figure: Commerce Road Culvert Property Impact Reduction Alt Design B-0633-007 CONSTRUCTION PLANS Alt.dwg

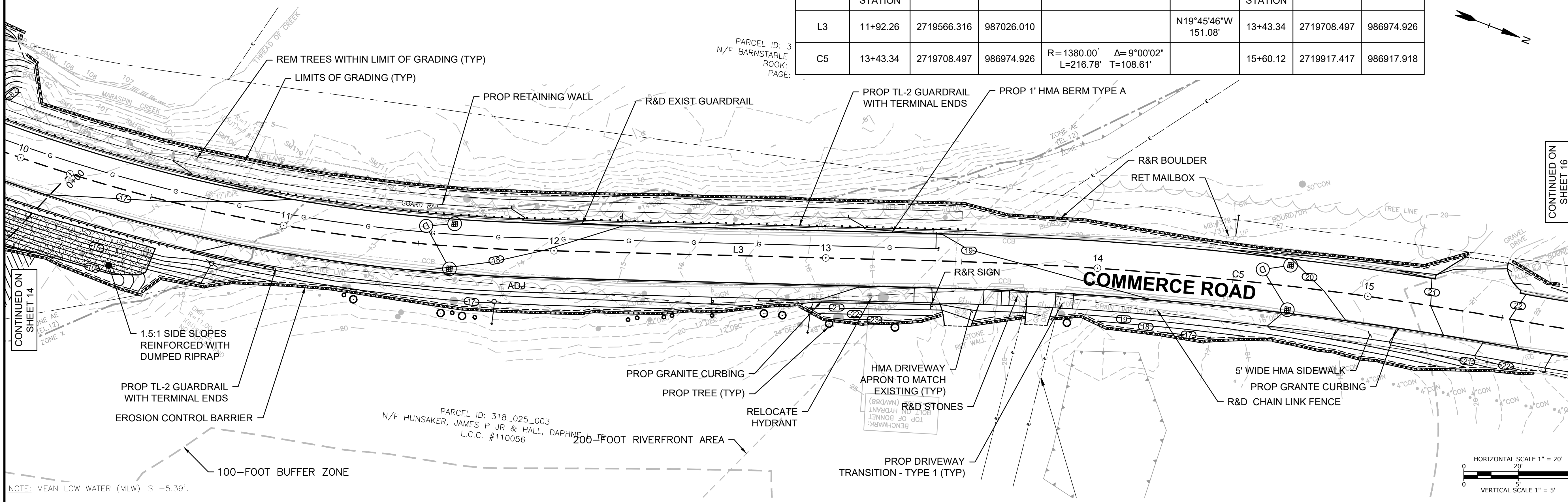
GUARDRAIL
STA 8+80 TO STA 13+55 LT
STA 5+25 TO STA 11+00 RT

RETAINING WALL
STA 8+85 TO STA 13+50 LT

SEE SHEETS 32 - 33 FOR IMPACT
PLANS

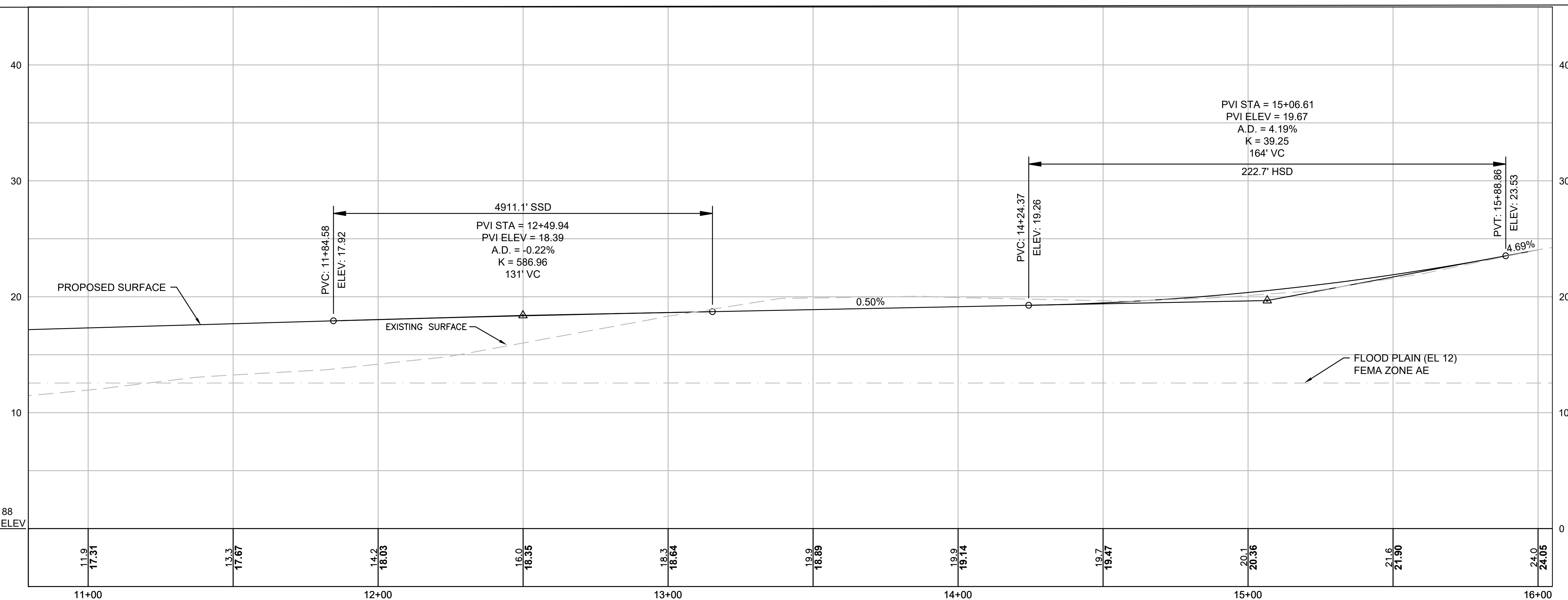
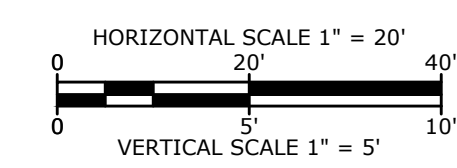
COMMERCE ROAD (PROPOSED) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	11+92.26	2719566.316	987026.010		N19°45'46"W 151.08'	13+43.34	2719708.497	986974.926
C5	13+43.34	2719708.497	986974.926	R=1380.00' Δ=9°00'02" L=216.78' T=108.61'		15+60.12	2719917.417	986917.918



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DRAWINGS

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Commerce Road
Improvements
& Culvert
Replacement

Town of
Barnstable

Barnstable,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 CONSTRUCTION PLANS_ait.dwg	
DRAWN BY:	MMB	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION PLANS &
PROFILES
(SHEET 3 OF 10)

SCALE: AS SHOWN

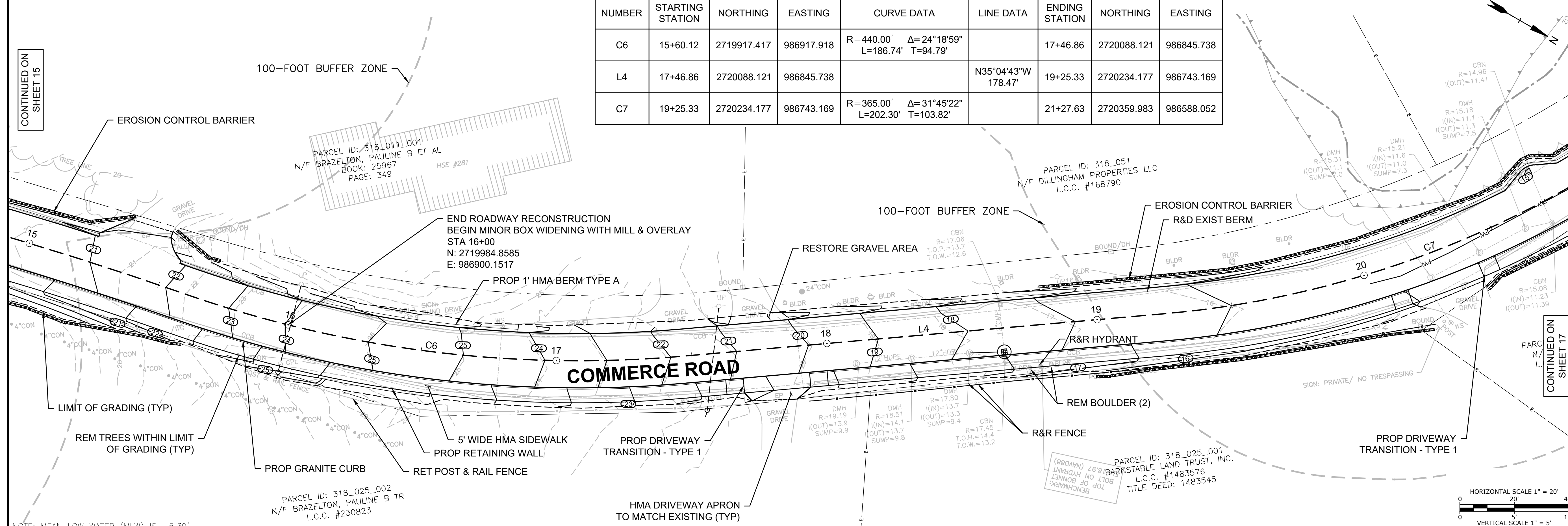
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GUARDRAIL
NONE

RETAINING WALL
STA 16+15 TO STA 16+55 RT

COMMERCE ROAD (PROPOSED) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	15+60.12	2719917.417	986917.918	R=440.00' Δ=24°18'59" L=186.74' T=94.79'		17+46.86	2720088.121	986845.738
L4	17+46.86	2720088.121	986845.738		N35°04'43"W 178.47'	19+25.33	2720234.177	986743.169
C7	19+25.33	2720234.177	986743.169	R=365.00' Δ=31°45'22" L=202.30' T=103.82'		21+27.63	2720359.983	986588.052



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DRAWINGS

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Commerce
Road
Improvements
& Culvert
Replacement

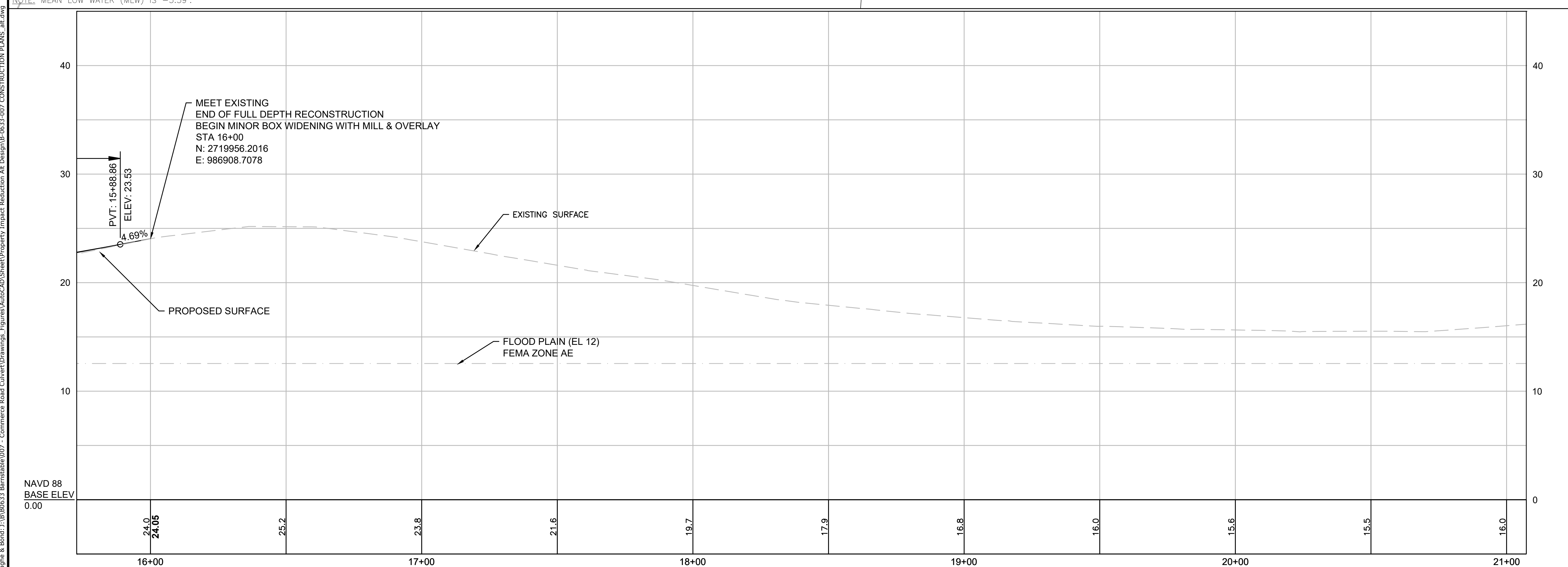
Town of
Barnstable

Barnstable,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 CONSTRUCTION PLANS_ait.dwg	
DRAWN BY:	MMB	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION PLANS &
PROFILES
(SHEET 4 OF 10)

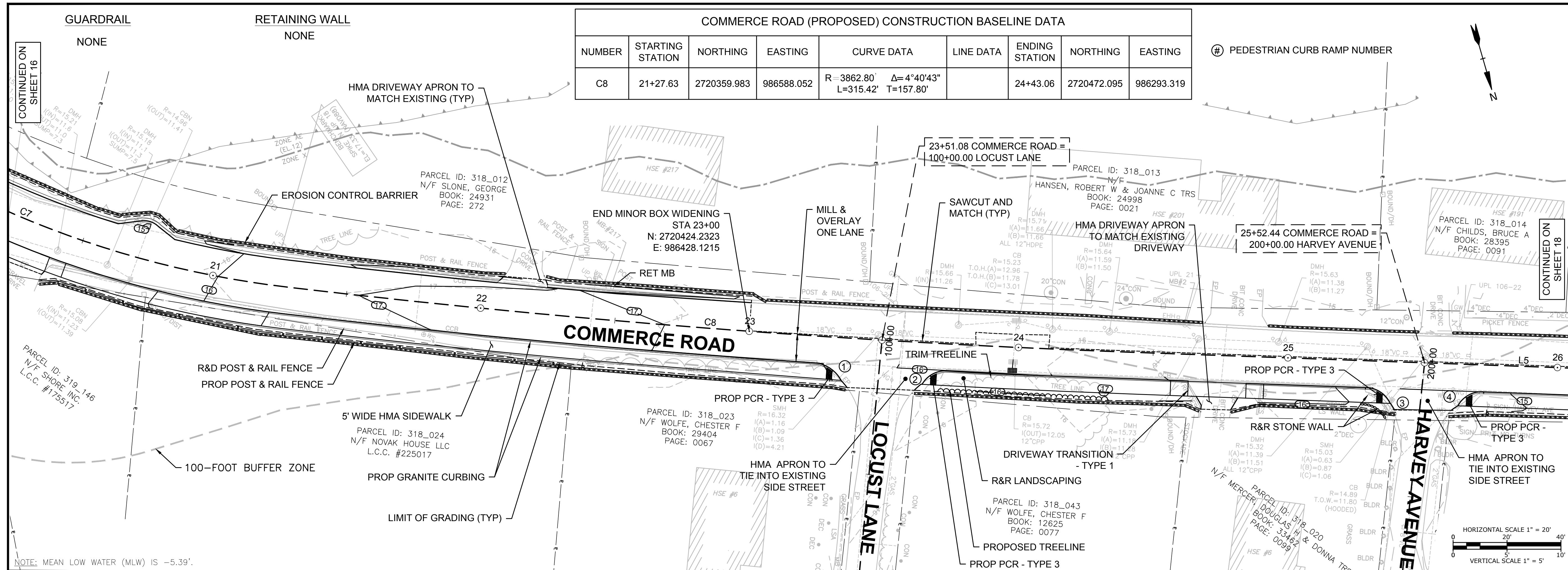
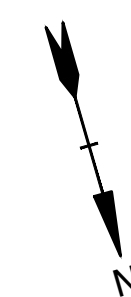
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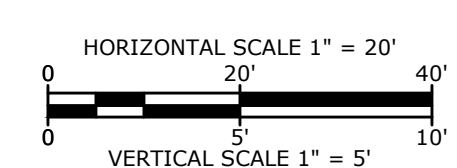
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 Project: Nov 15, 2024 11:05am By: MCDermott
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 Figures/AutoCAD/Sheet/Drawings - Commerce Road Culvert/Property Impact Reduction Alt Design/B-0633-007 CONSTRUCTION PLANS_ait.dwg

COMMERCE ROAD (PROPOSED) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C8	21+27.63	2720359.983	986588.052	R=3862.80' Δ=4°40'43" L=315.42' T=157.80'		24+43.06	2720472.095	986293.319

Ⓢ PEDESTRIAN CURB RAMP NUMBER



NOTE: MEAN LOW WATER (MLW) IS -5.39'.



REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

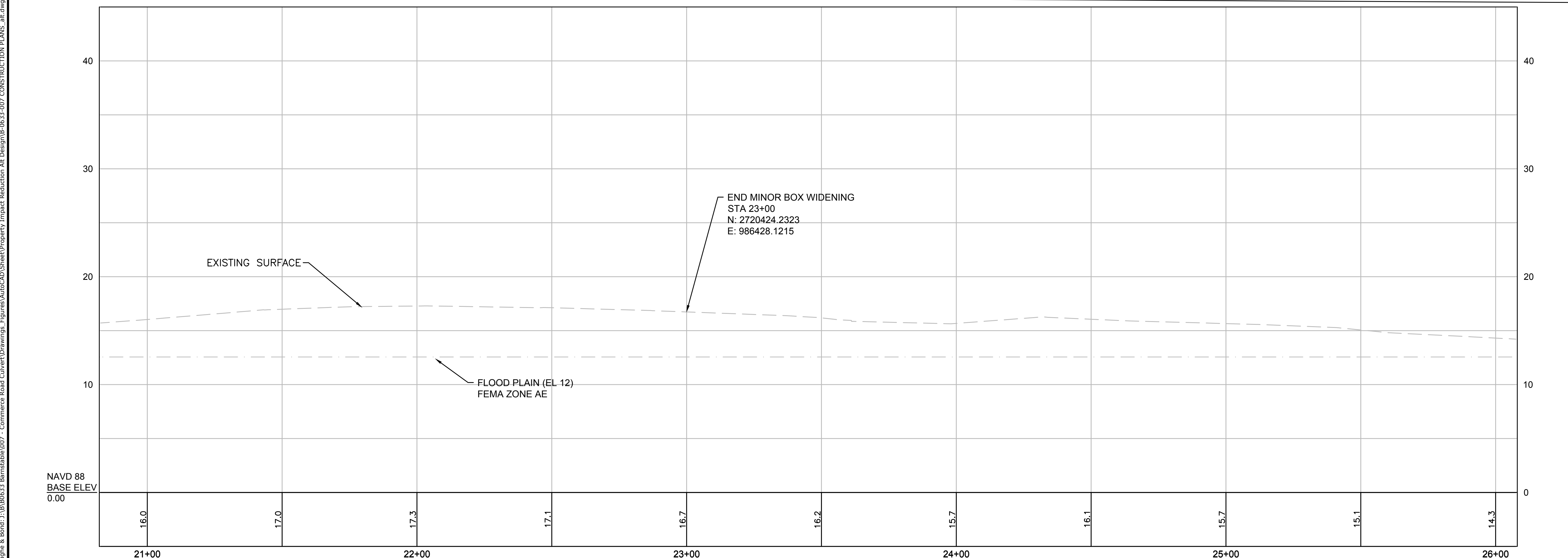
Town of Barnstable

Barnstable, Massachusetts

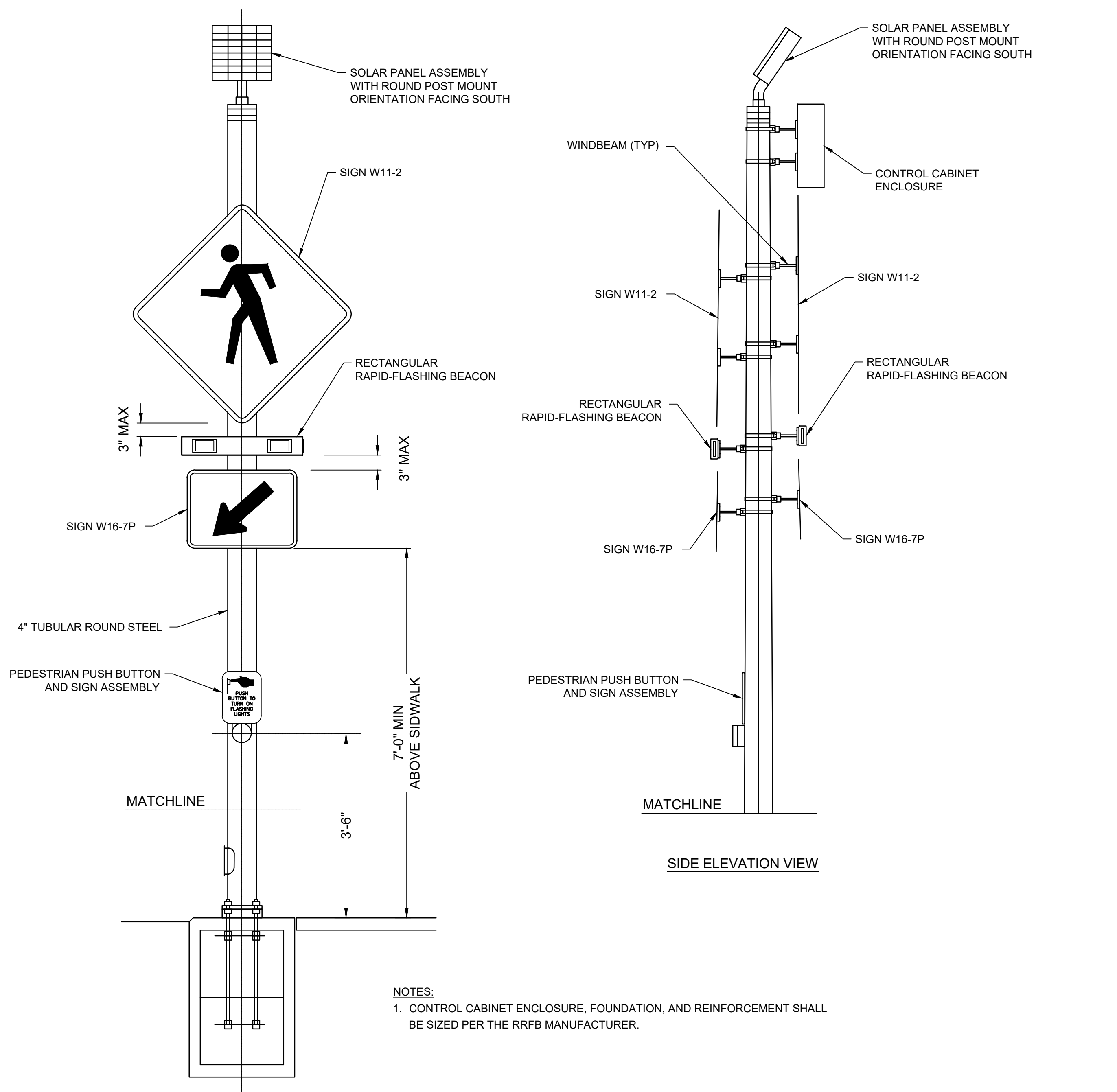
MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 CONSTRUCTION PLANS_alt.dwg	
DRAWN BY:	MMB	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION PLANS & PROFILES (SHEET 5 OF 10)

SCALE: AS SHOWN

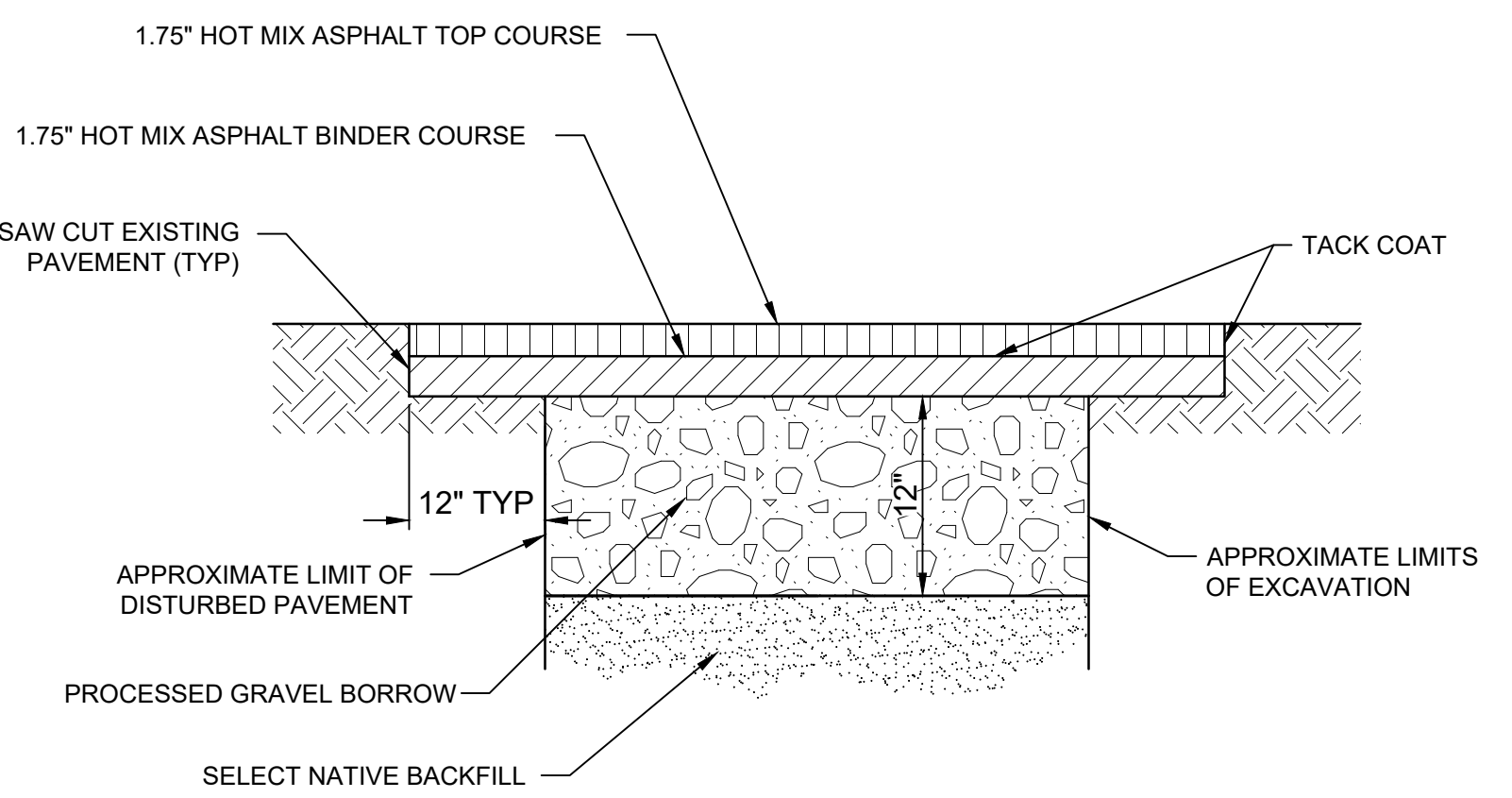
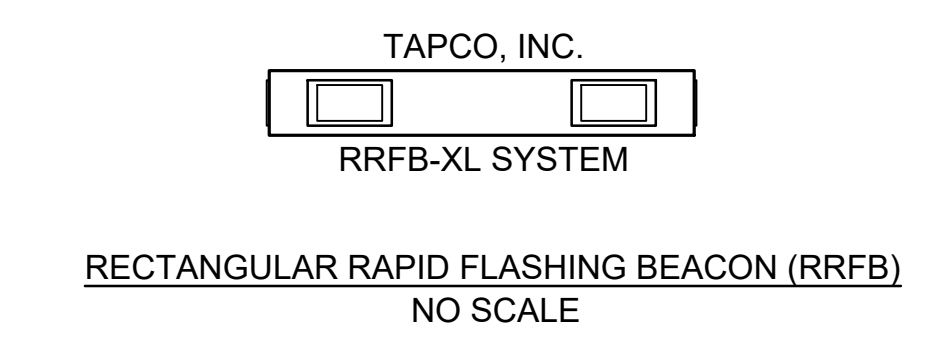


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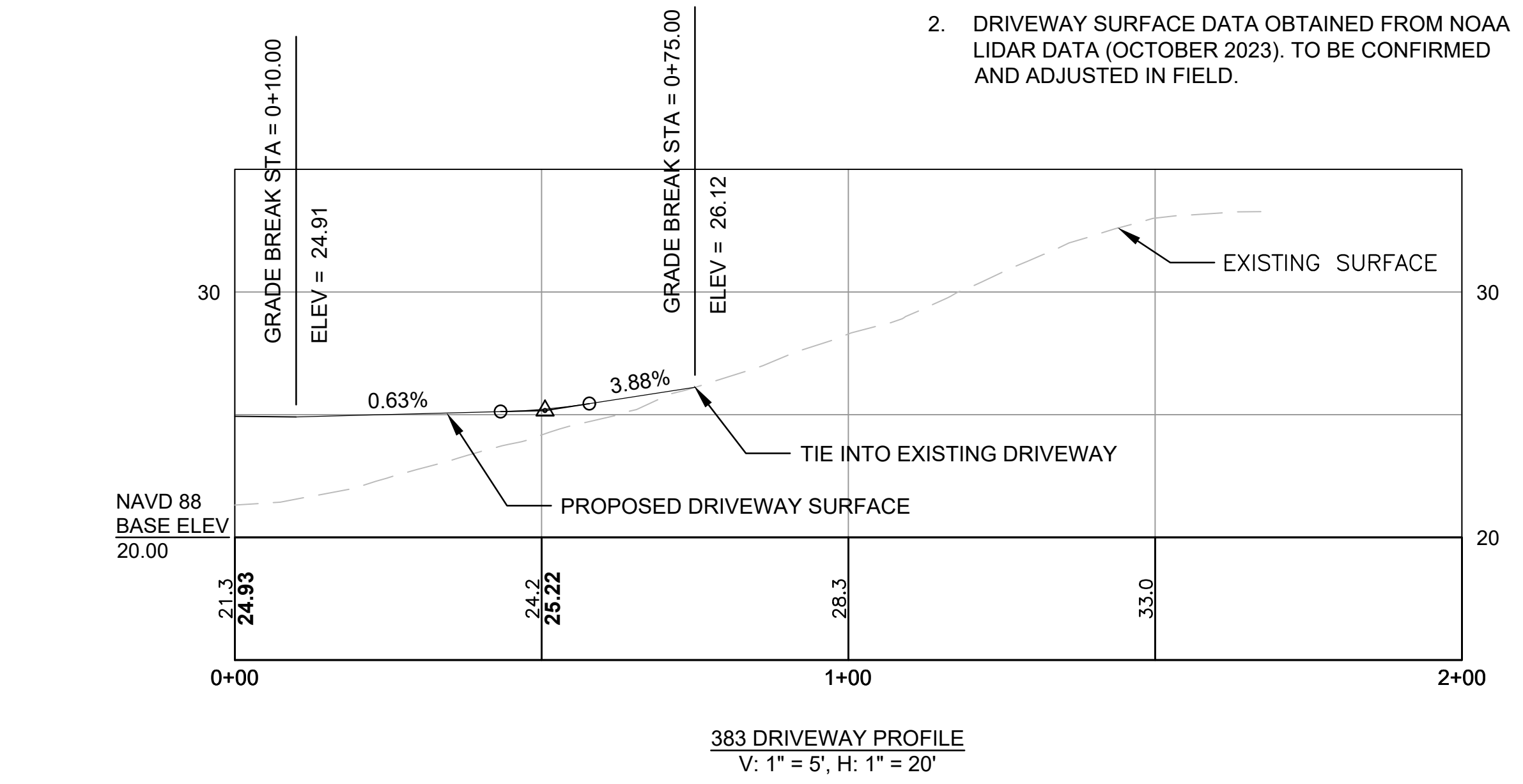
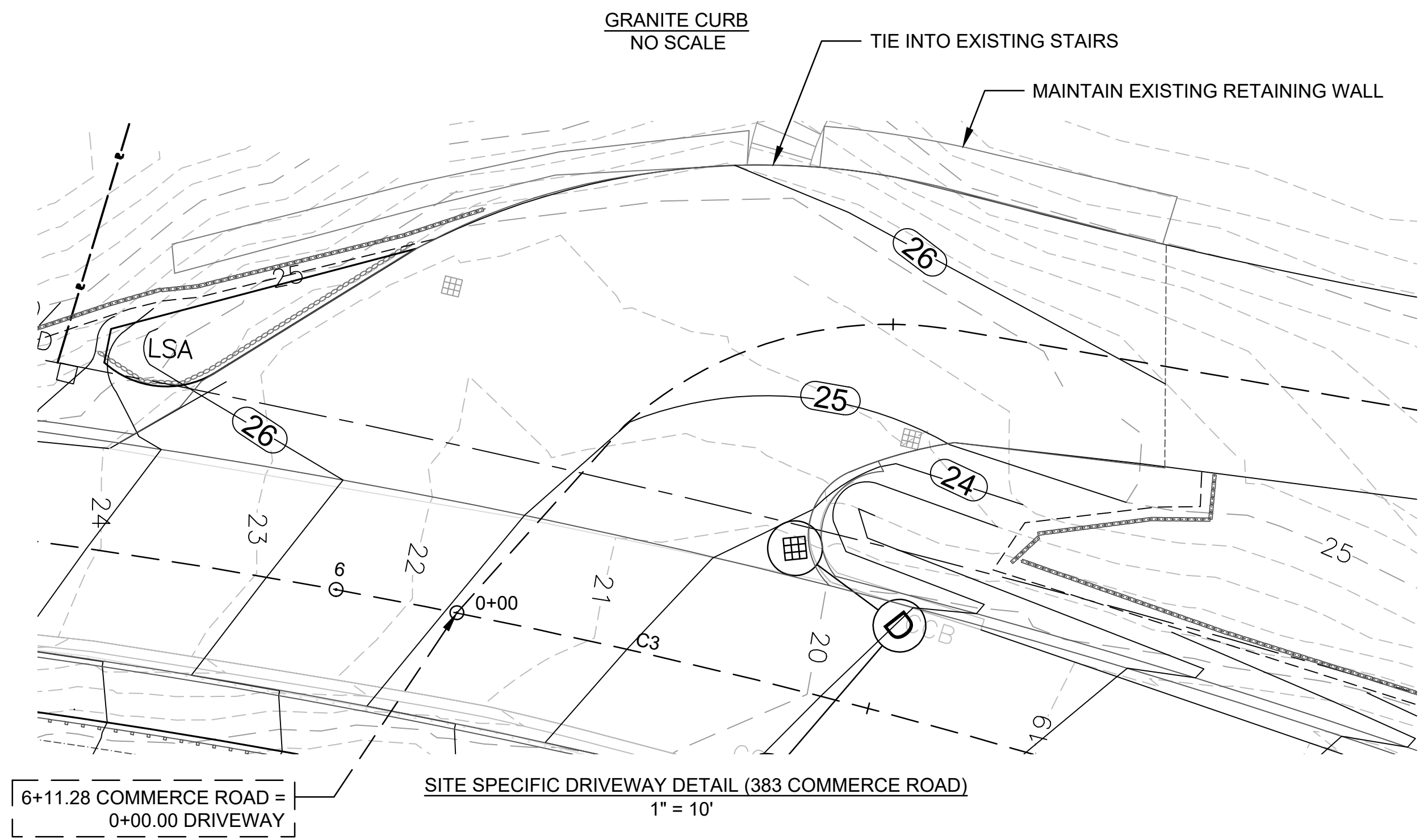
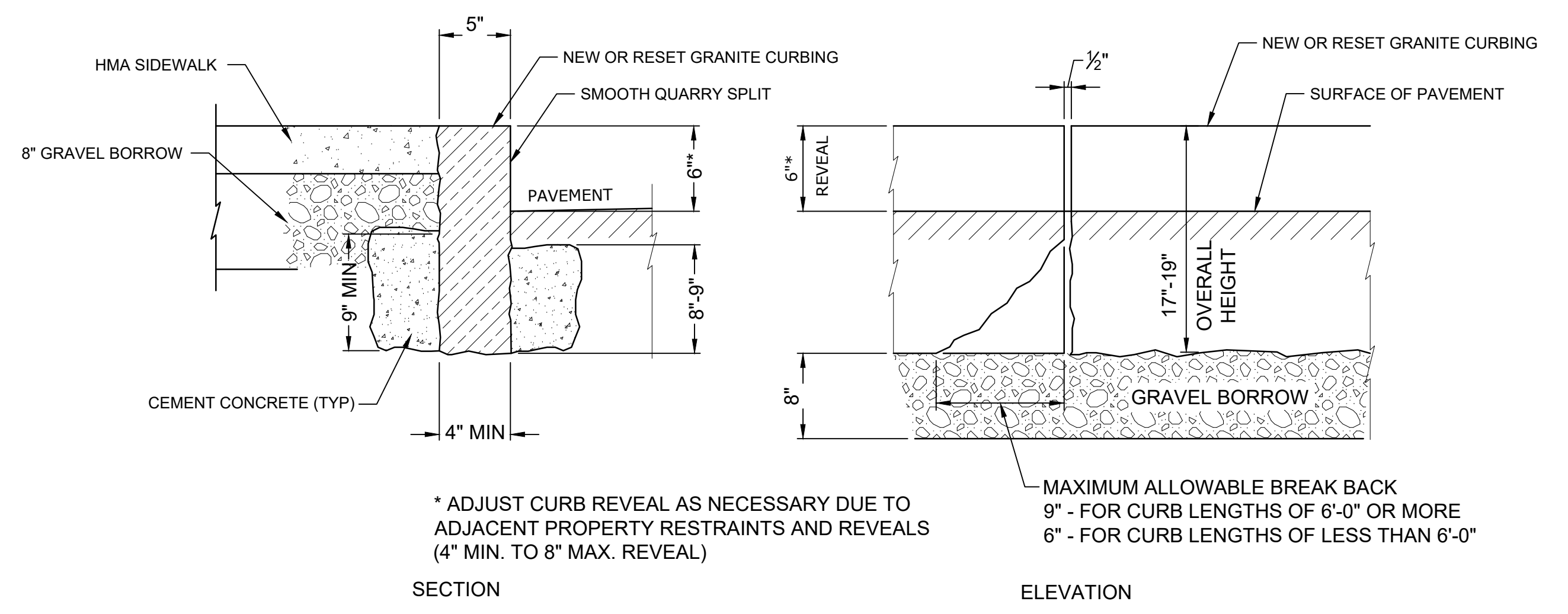


NOTES:
 1. CONTROL CABINET ENCLOSURE, FOUNDATION, AND REINFORCEMENT SHALL BE SIZED PER THE RRFB MANUFACTURER.

CROSSWALK SIGNAGE WITH RRFB
 NO SCALE



PERMANENT ROADWAY AND TRENCH REPAIR
 NO SCALE



383 DRIVEWAY PROFILE
 V: 1" = 5', H: 1" = 20'

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

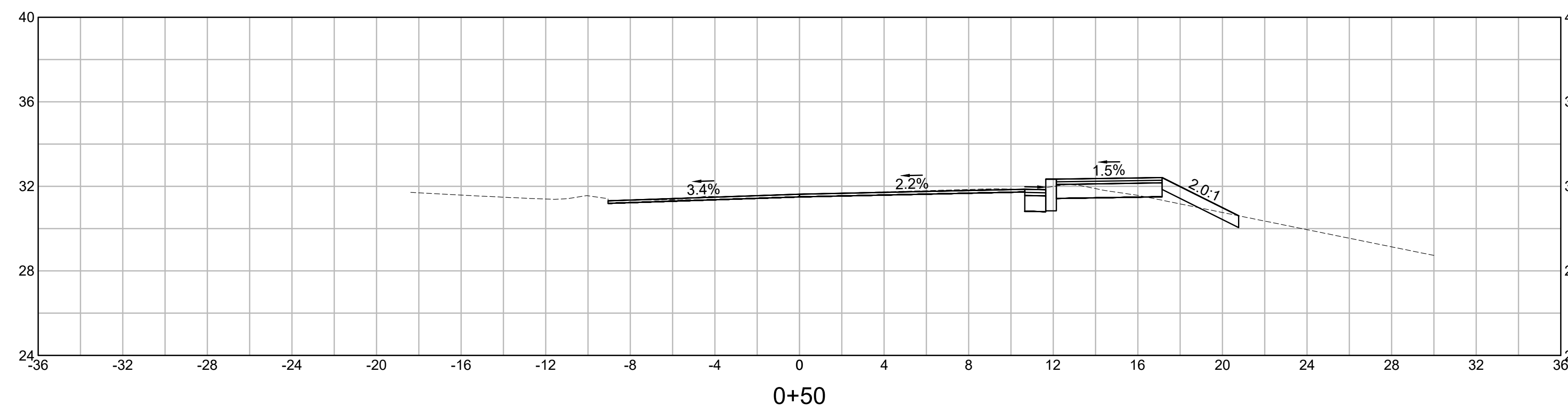
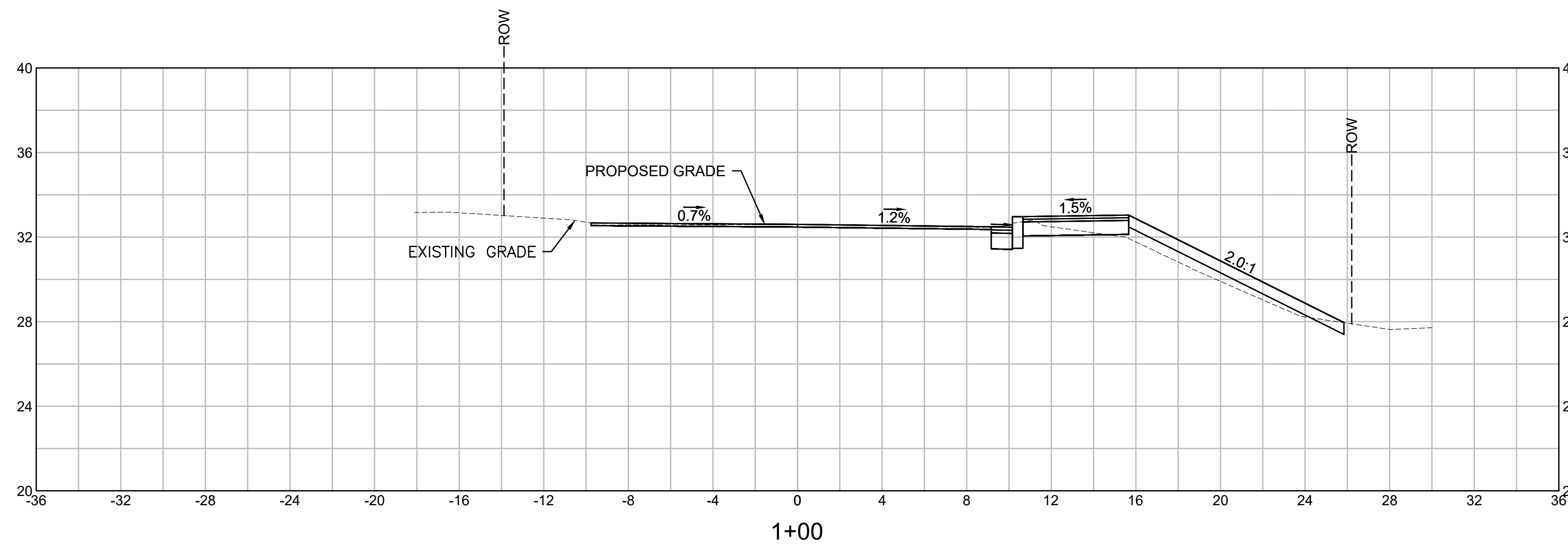
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 DETAILS.dwg	
DRAWN BY:	MMB	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CONSTRUCTION DETAILS (SHEET 2 OF 9)

SCALE: NO SCALE

Last Saved: 11/7/2024 11:07:00 AM By: MCDermott
 Plotted On: Nov 15, 2024 11:18:18 AM
 Figure & Bond: 11/15/2024 Barnstable 007 - Commerce Road Culvert Drawings - Figures AutoCAD Sheet B-0633-007 DETAILS.dwg



**REVISED 75%
DRAWINGS**

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**Commerce
Road
Improvements
& Culvert
Replacement**

Town of
Barnstable

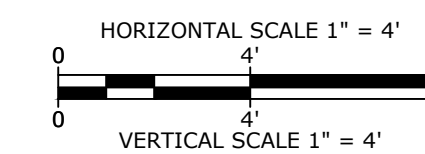
Barnstable,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

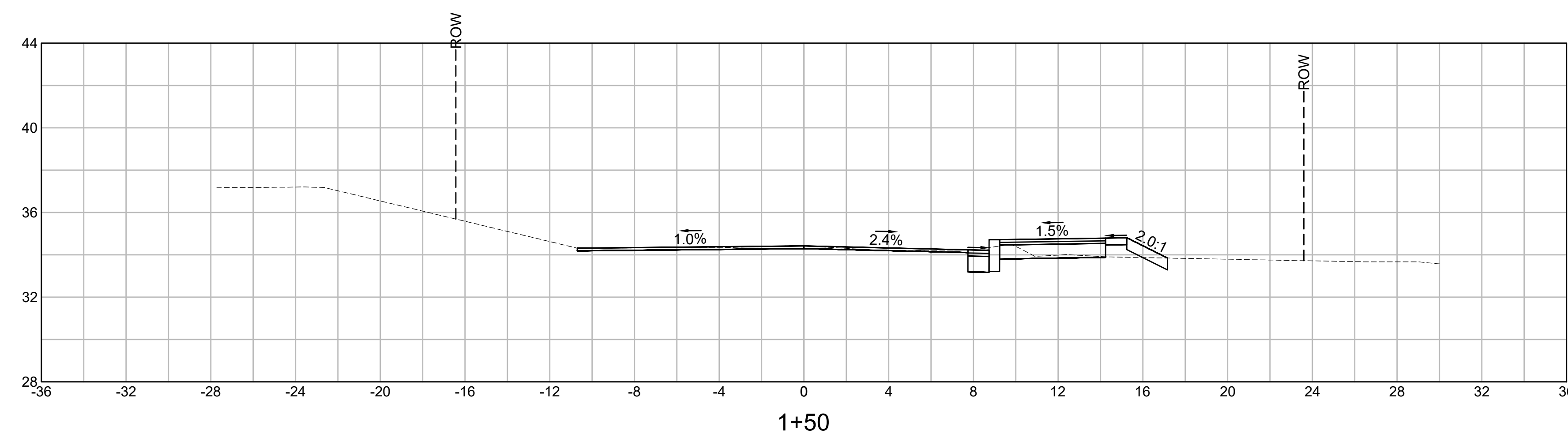
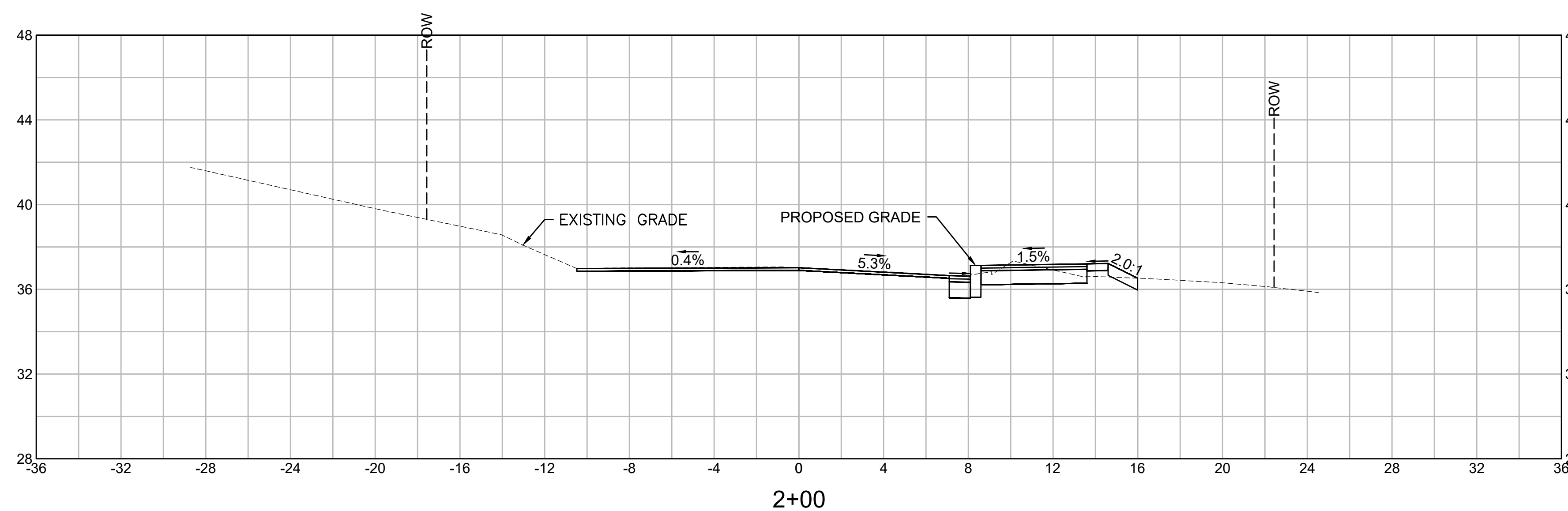
**CROSS SECTIONS
(SHEET 1 OF 29)**

SCALE: AS SHOWN

SHEET 43 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

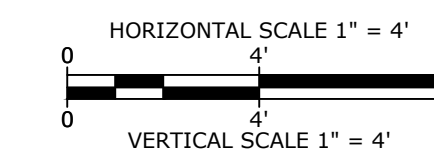
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

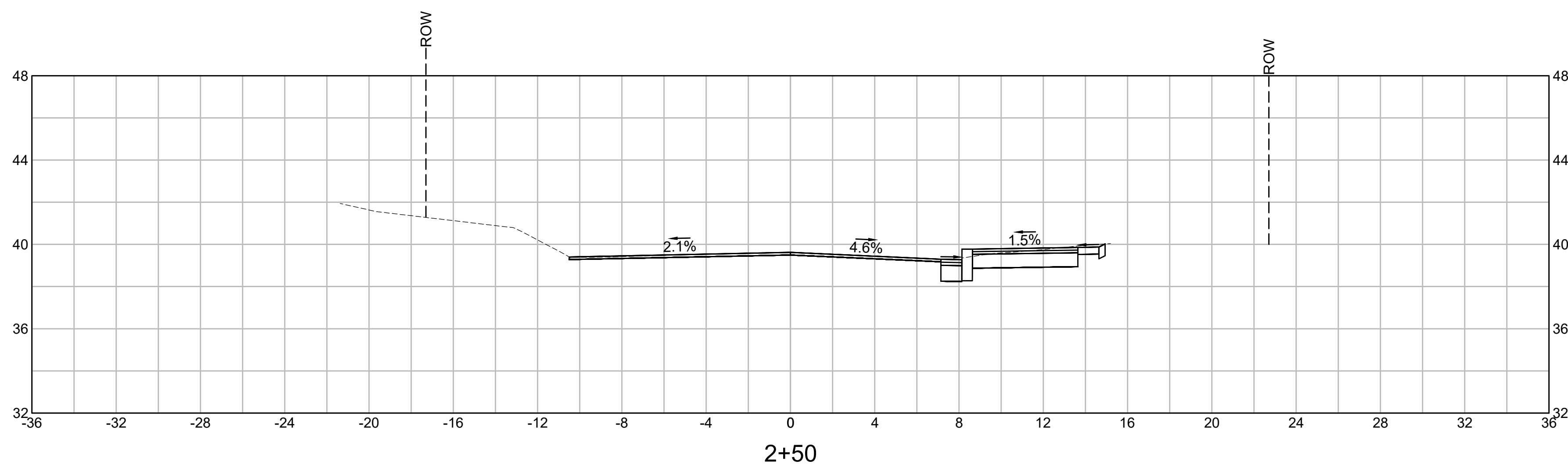
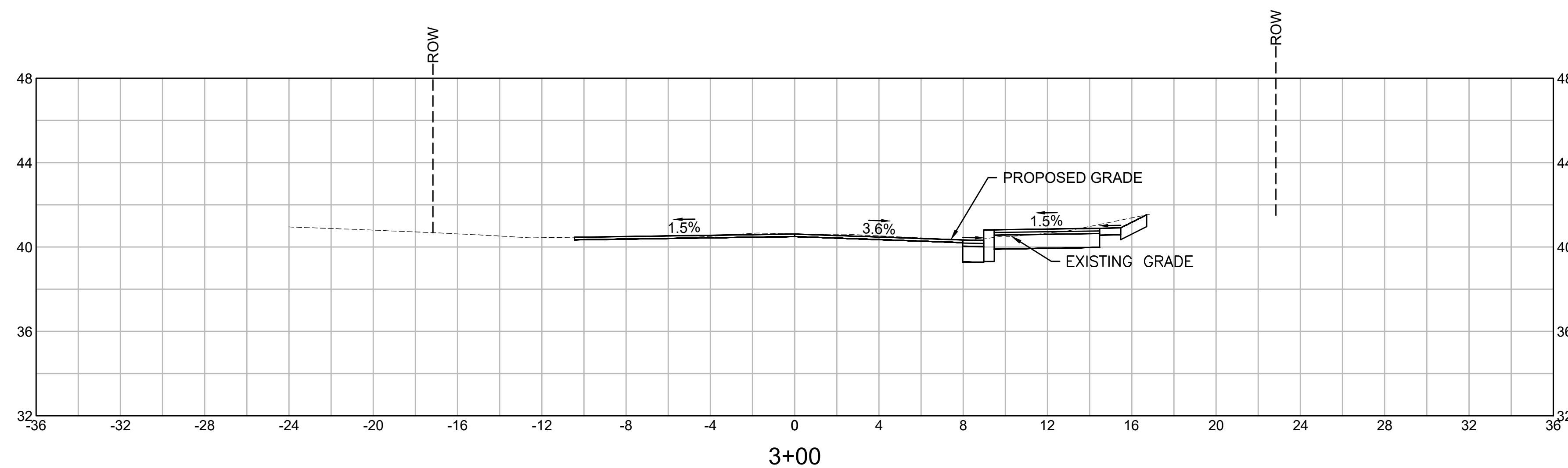
CROSS SECTIONS (SHEET 2 OF 29)

SCALE: AS SHOWN

SHEET 44 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



REVISED 75% DRAWINGS

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

Commerce Road Improvements & Culvert Replacement

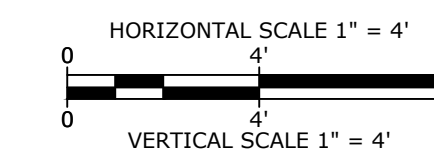
Town of Barnstable

Barnstable, Massachusetts

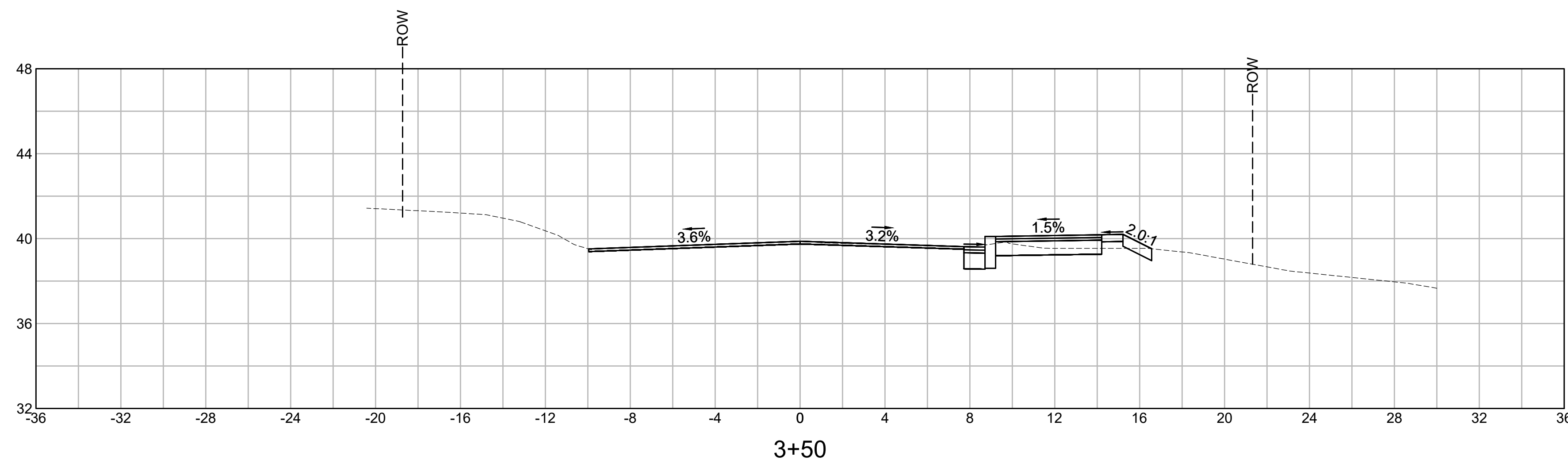
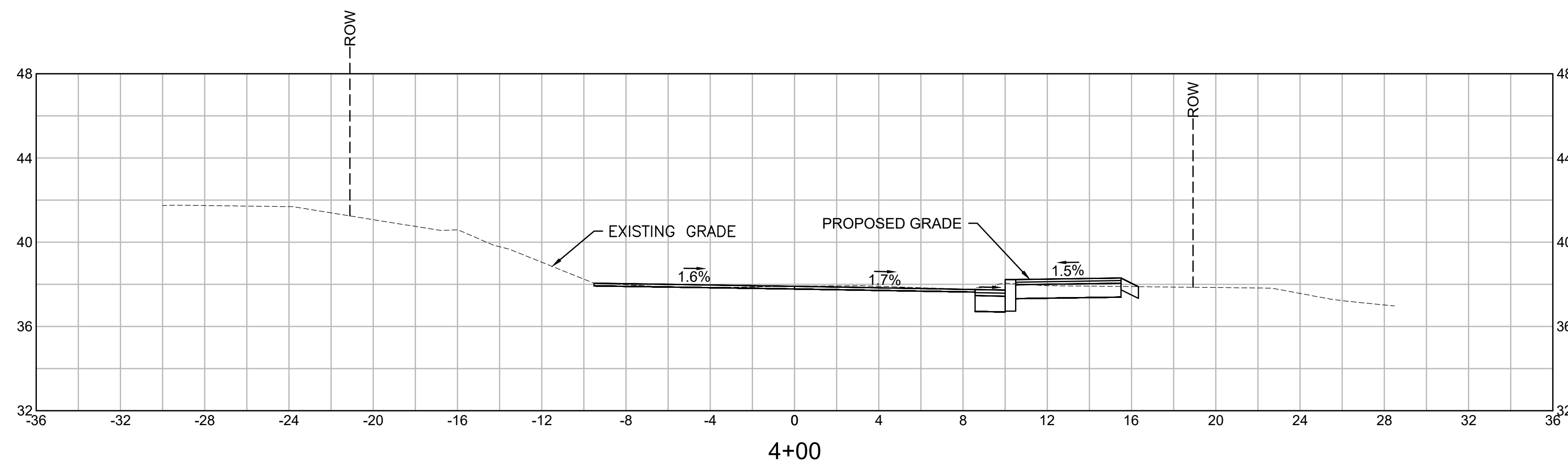
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PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 3 OF 29)

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'



REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

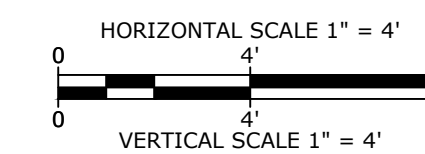
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 4 OF 29)

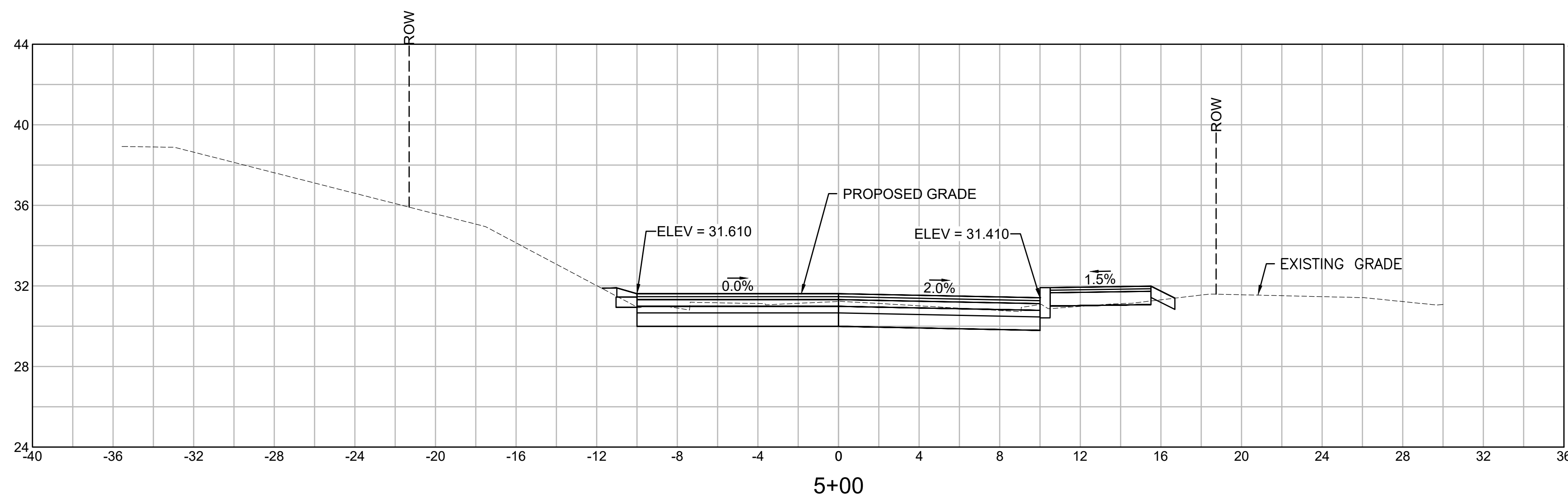
SCALE: AS SHOWN

SHEET 46 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'

Last Saved: 11/15/2024 11:08am By: MCDermott
 Plotted On: Nov 15, 2024 11:08am
 Title & Board: B-0633-007 Commerce Road Culvert Replacement Drawings - Figures/AutoCAD/Yes/Alternate Sidewalk Location/B-0633-007 C-PL Design MassDOT_alt.dwg



SUPERELEVATION:
 PRC STATION 5+25.5
 R = 650.00'
 BANK = 3.2%

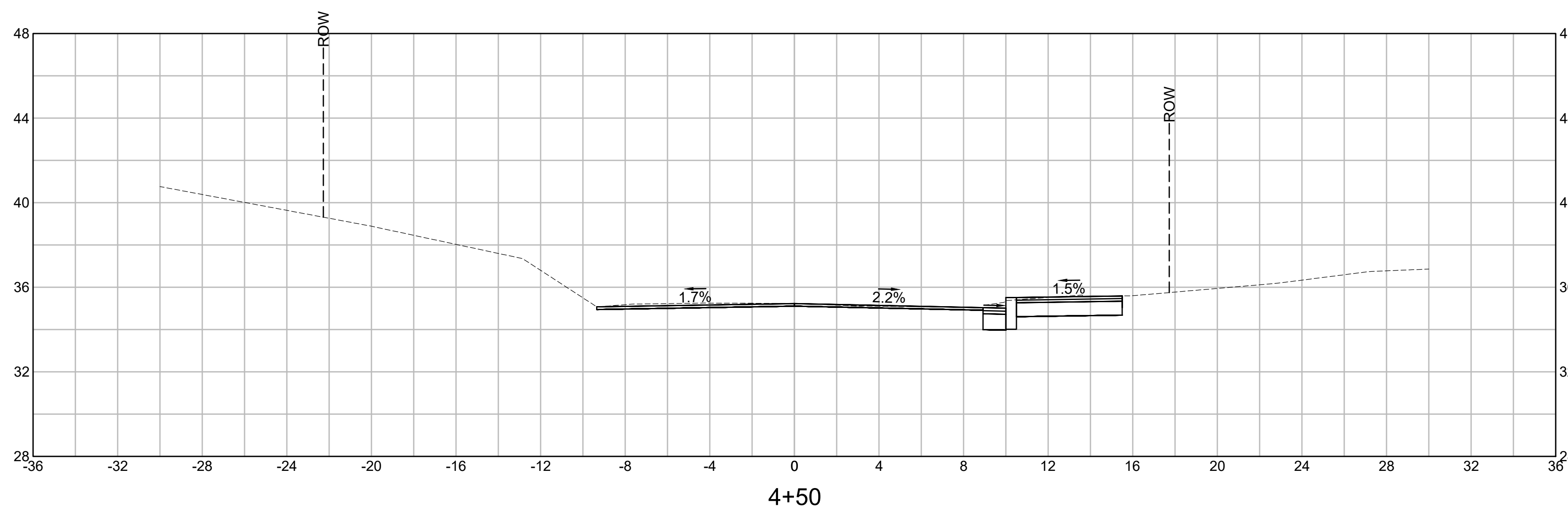
REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

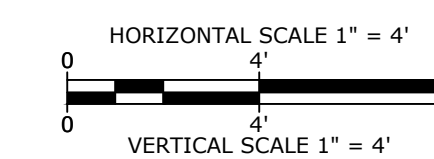
Barnstable, Massachusetts



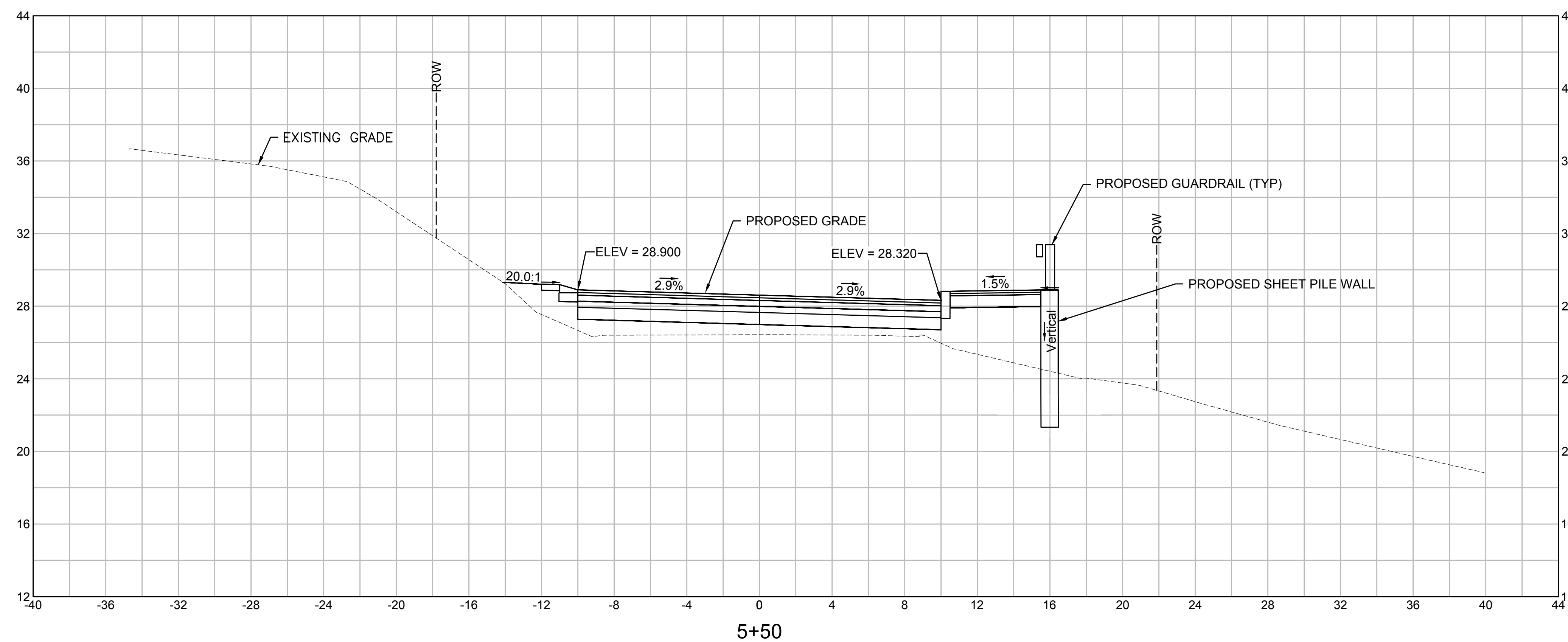
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DATE: NOVEMBER 2024		
FILE: B-0633-007 C-PL Design MassDOT_alt.dwg		
DRAWN BY: MMM		
DESIGNED/CHECKED BY: EAO		
APPROVED BY: DLM		

CROSS SECTIONS (SHEET 5 OF 29)

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'



SUPERELEVATION:
 PRC STATION 5+25.5
 R = 650.00'
 BANK = 3.2%

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

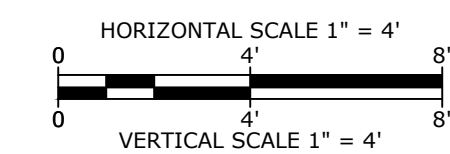
Town of Barnstable

Barnstable, Massachusetts

MARK	DATE	DESCRIPTION

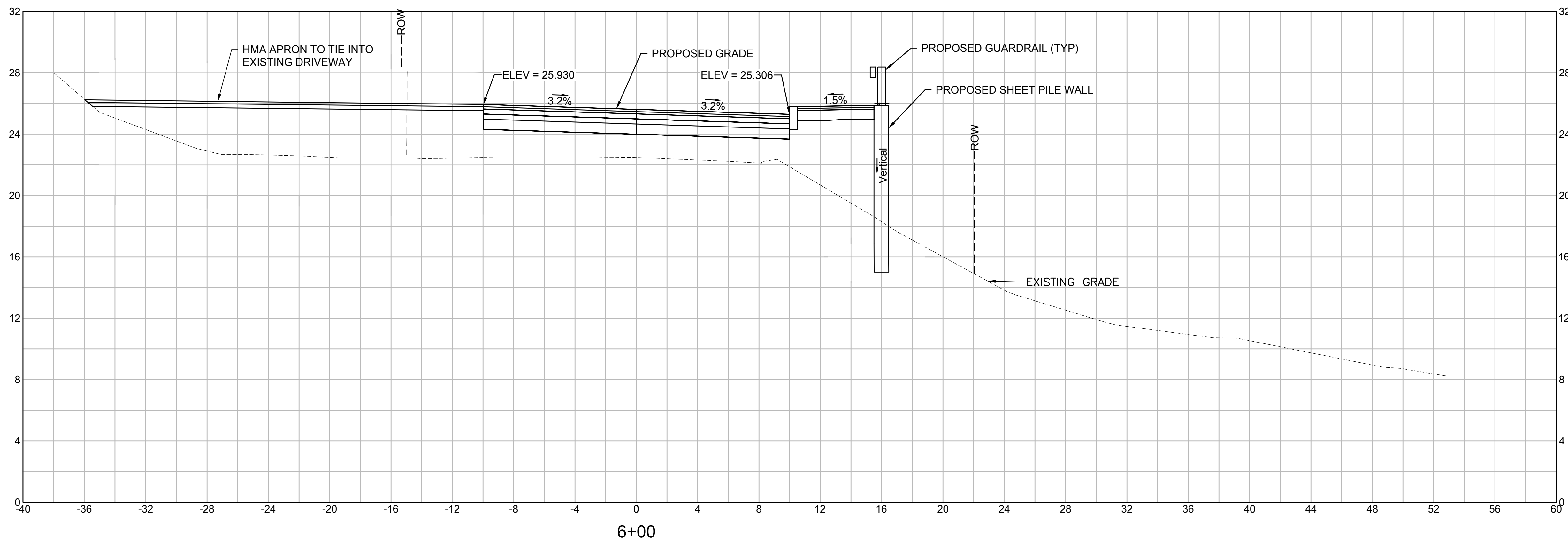
CROSS SECTIONS (SHEET 6 OF 29)

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'.

Last Saved: 11/15/2024 1:34pm By: MK-Dermet
 Plotted On: Nov 15, 2024 1:34pm
 Title & Path: B:\0633\Barnstable\DOT - Commerce Road\Culvert\Drawings\Figures\AutoCAD\Yes\Alternate Sidewalk Location\B-0633-007 C-PL Design MassDOT_alt.dwg



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts

SUPERELEVATION:

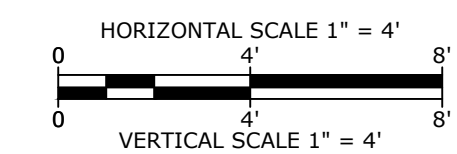
PC STATION 5+25.5
R = 650.00'
BANK = 3.2%

MARK	DATE	DESCRIPTION

PROJECT NO:	B0633-007
DATE:	NOVEMBER 2024
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg
DRAWN BY:	MMM
DESIGNED/CHECKED BY:	EAO
APPROVED BY:	DLM

CROSS SECTIONS (SHEET 7 OF 29)

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'

Last Saved: 11/15/2024 1:34pm By: MK-Dermet
 Plotted On: Nov 15, 2024 1:34pm
 Title & Board: B-0633-007 Barnstable DOT - Commerce Road Culvert Drawings - Figures/AutoCAD/Views/Alternate Sidewalk Location/B-0633-007 C-PL Design MassDOT_alt.dwg

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

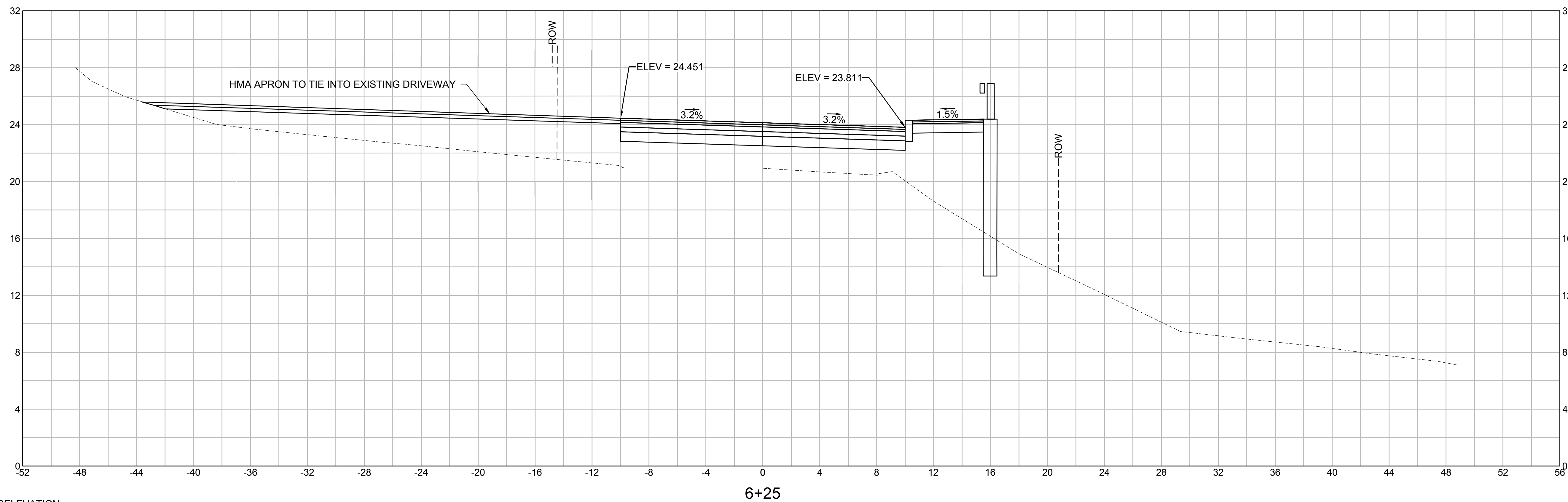
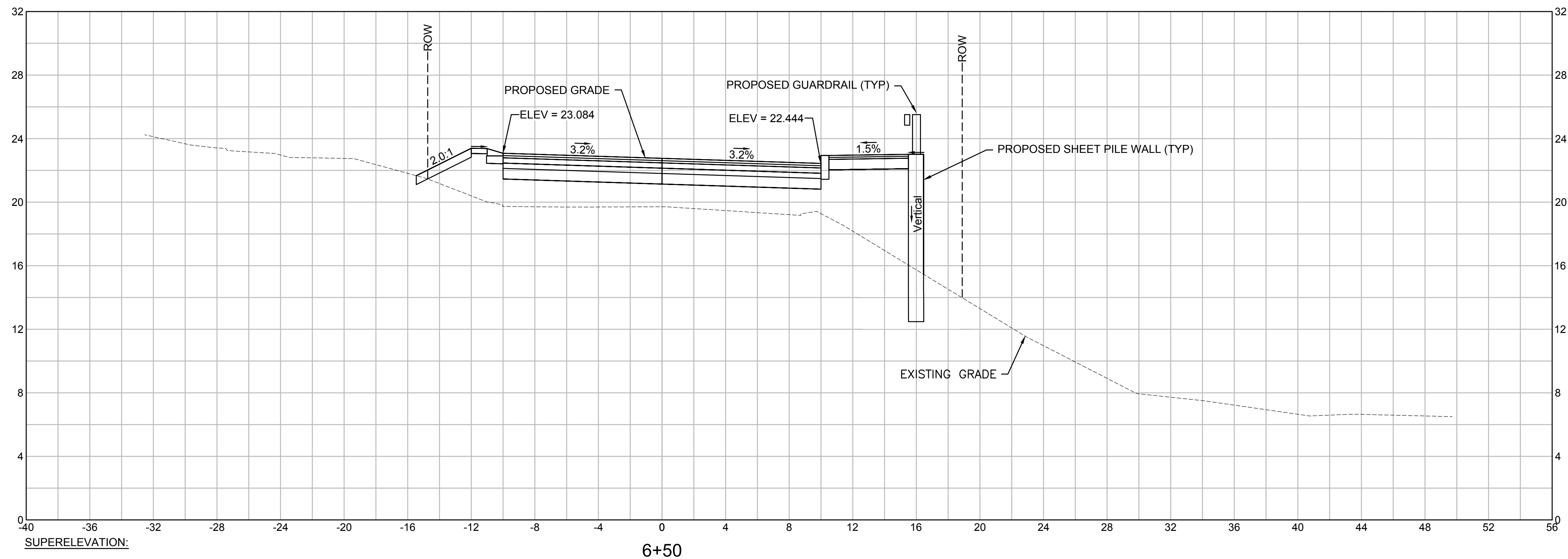
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

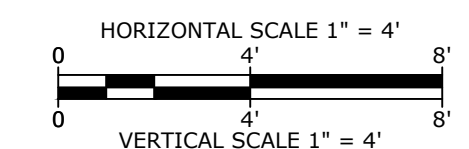
CROSS SECTIONS (SHEET 8 OF 29)

SCALE: AS SHOWN

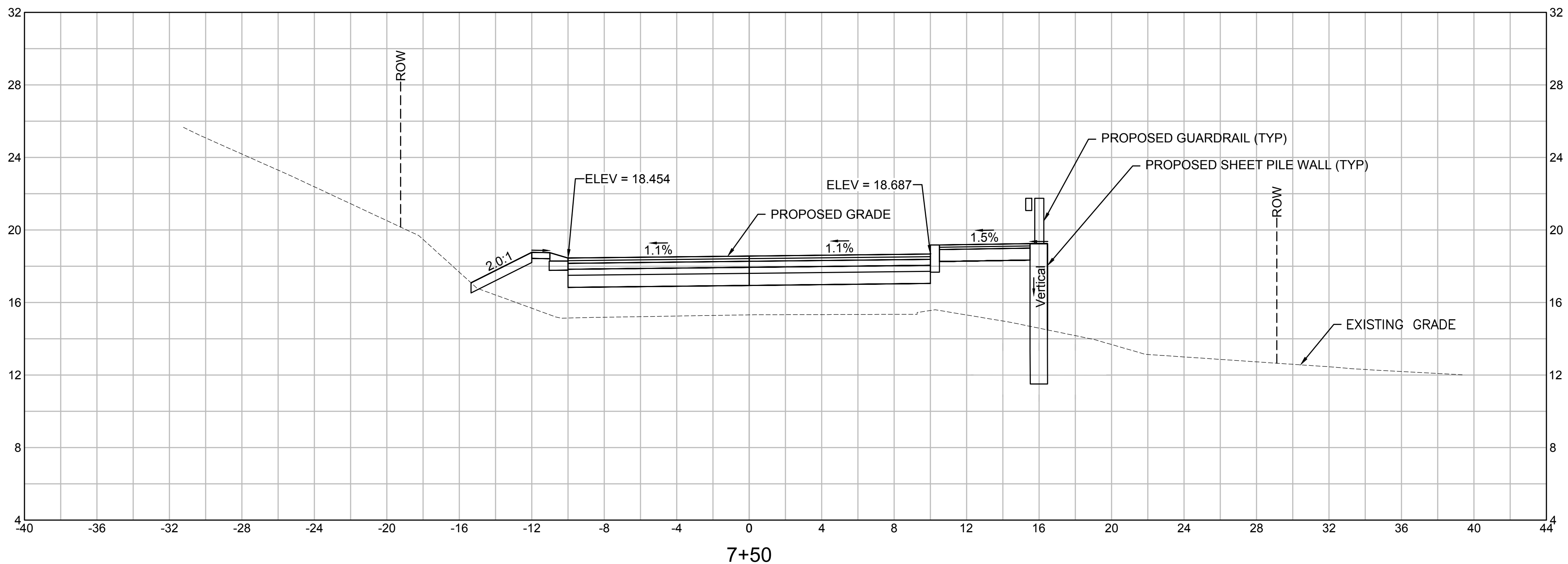
SHEET 50 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



Last Saved: 11/15/2024 11:30pm By: MK-Dermet
 Plotted On: Nov 15, 2024 11:30am By: MK-Dermet
 Title & Path: C:\Users\mkdermet\OneDrive\Documents\Barnstable\DOT - Commerce Road Culvert\Drawings\Figures\AutoCAD\Views\Alternate_Sidewalk_Location\B-0633-007_C-PL_Design_MassDOT_alt.dwg



SUPERELEVATION:
 PRC STATION 7+32.4
 R = 630.00'
 BANK = 3.2%

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

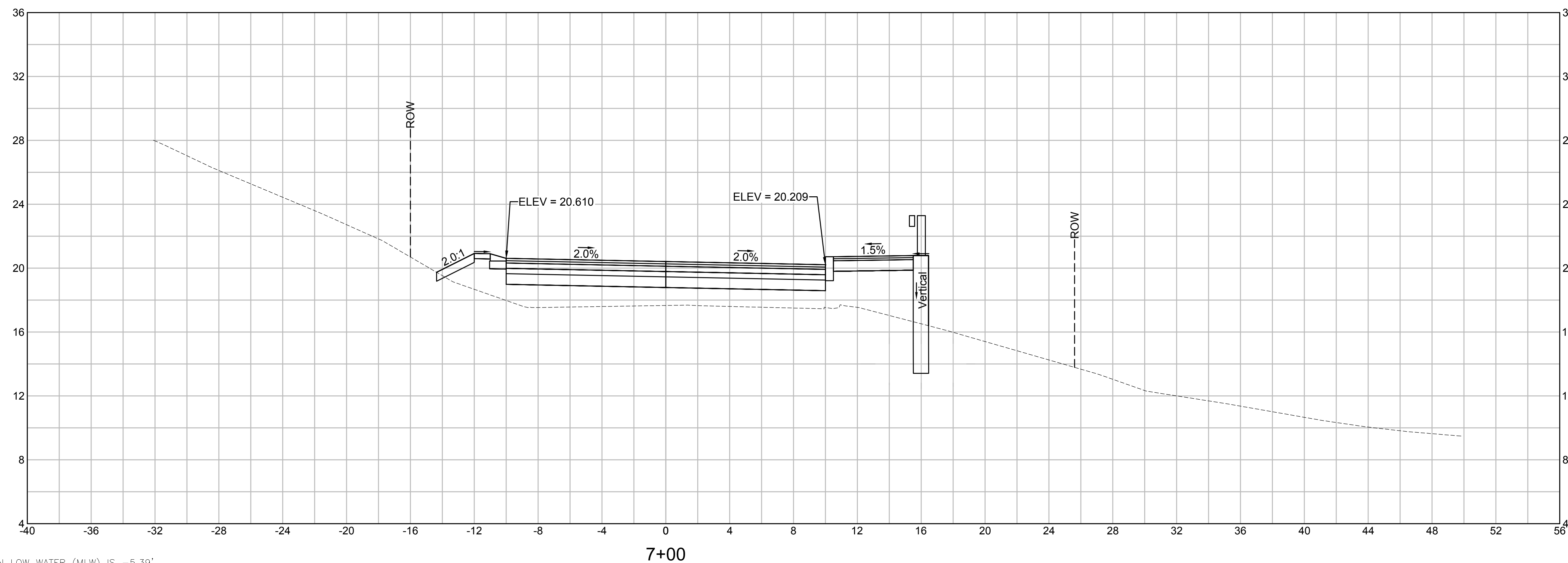
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

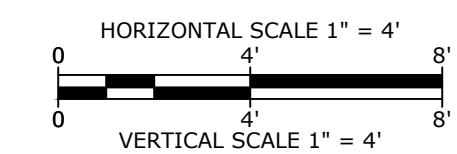
CROSS SECTIONS (SHEET 9 OF 29)

SCALE: AS SHOWN

SHEET 51 OF 83

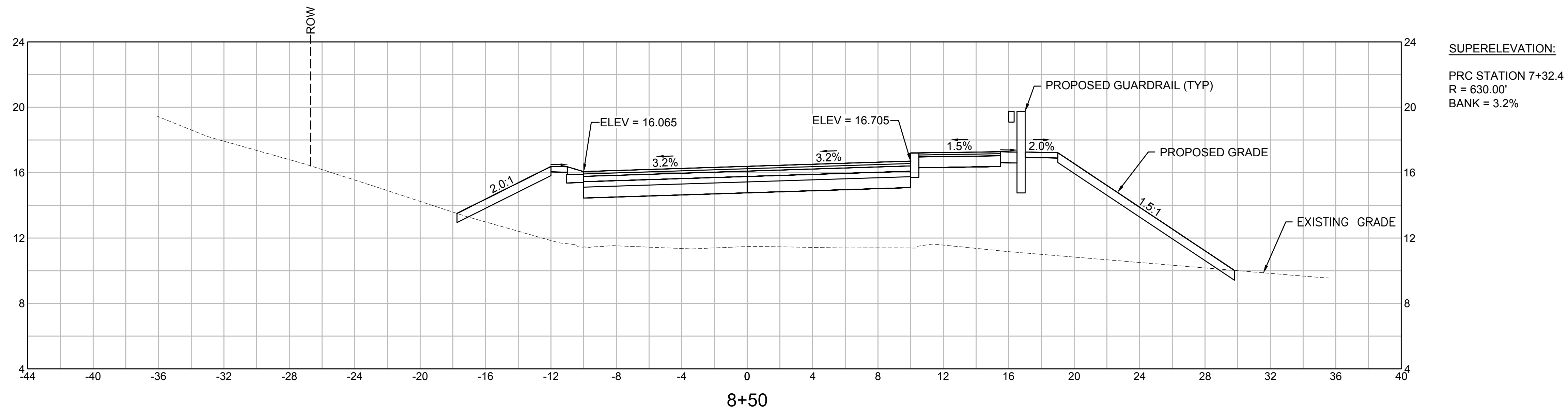


SUPERELEVATION:
 PC STATION 5+25.5
 R = 650.00'
 BANK = 3.2%



NOTE: MEAN LOW WATER (MLW) IS -5.39'

Last Saved: 11/15/2024 11:09pm By: MKD/dermet
 Plotted On: Nov 15, 2024 11:09am
 File: B-0633-007 C-PL Design MassDOT - Commerce Road Culvert Drawings - Figures/AutoCAD/Views/Alternate Sidewalk Location/B-0633-007 C-PL Design MassDOT_alt.dwg



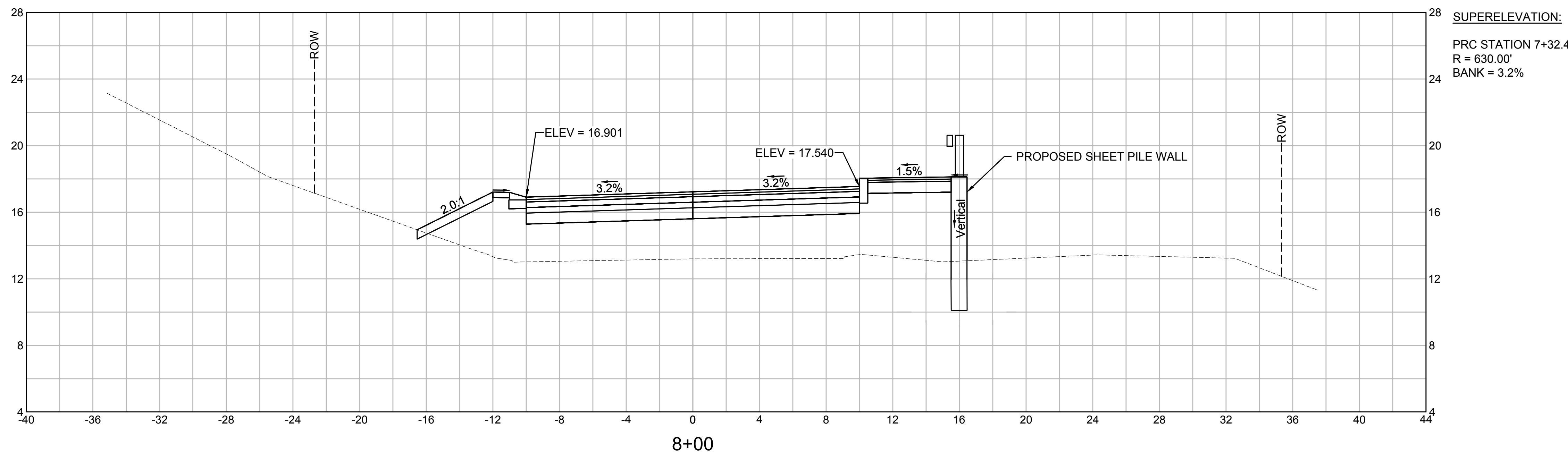
REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts

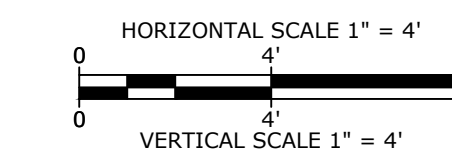


MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

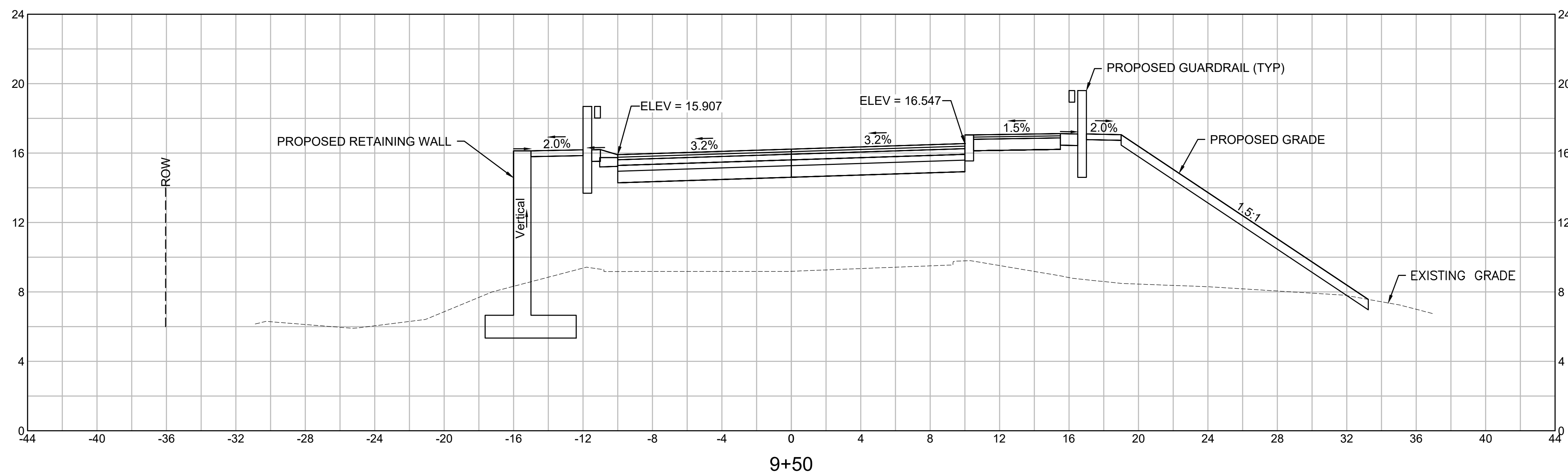
CROSS SECTIONS (SHEET 10 OF 29)

SCALE: AS SHOWN

SHEET 52 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



SUPERELEVATION:
 PRC STATION 7+32.4
 R = 630.00'
 BANK = 3.2%

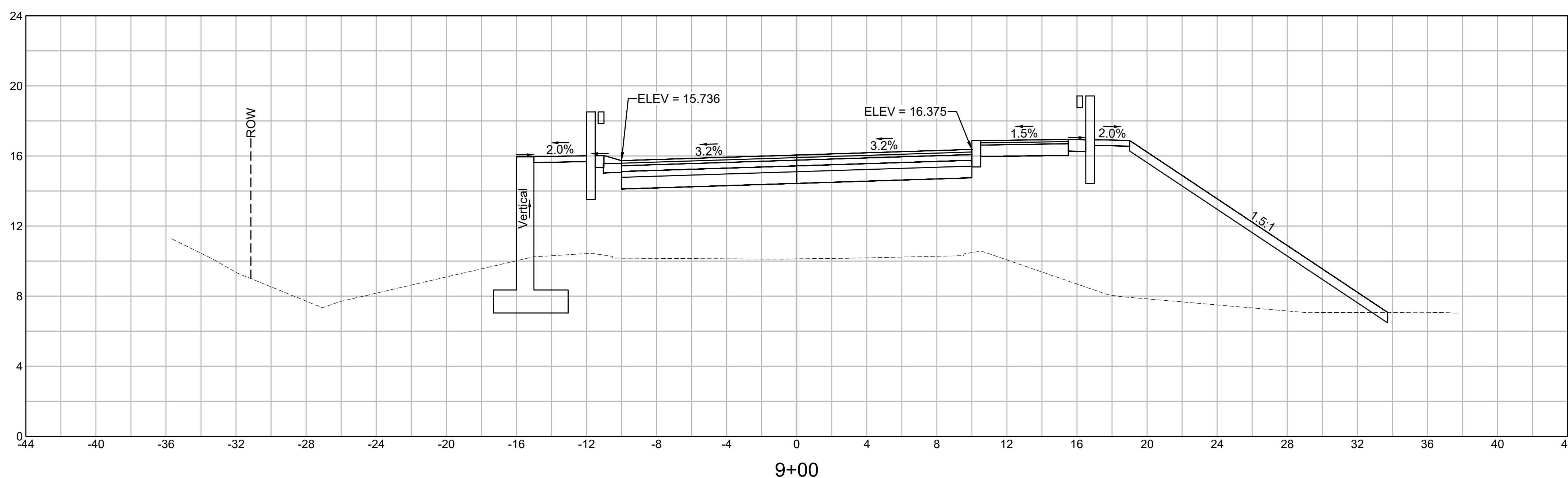
REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts



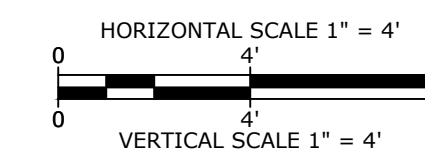
SUPERELEVATION:
 PRC STATION 7+32.4
 R = 630.00'
 BANK = 3.2%

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 11 OF 29)

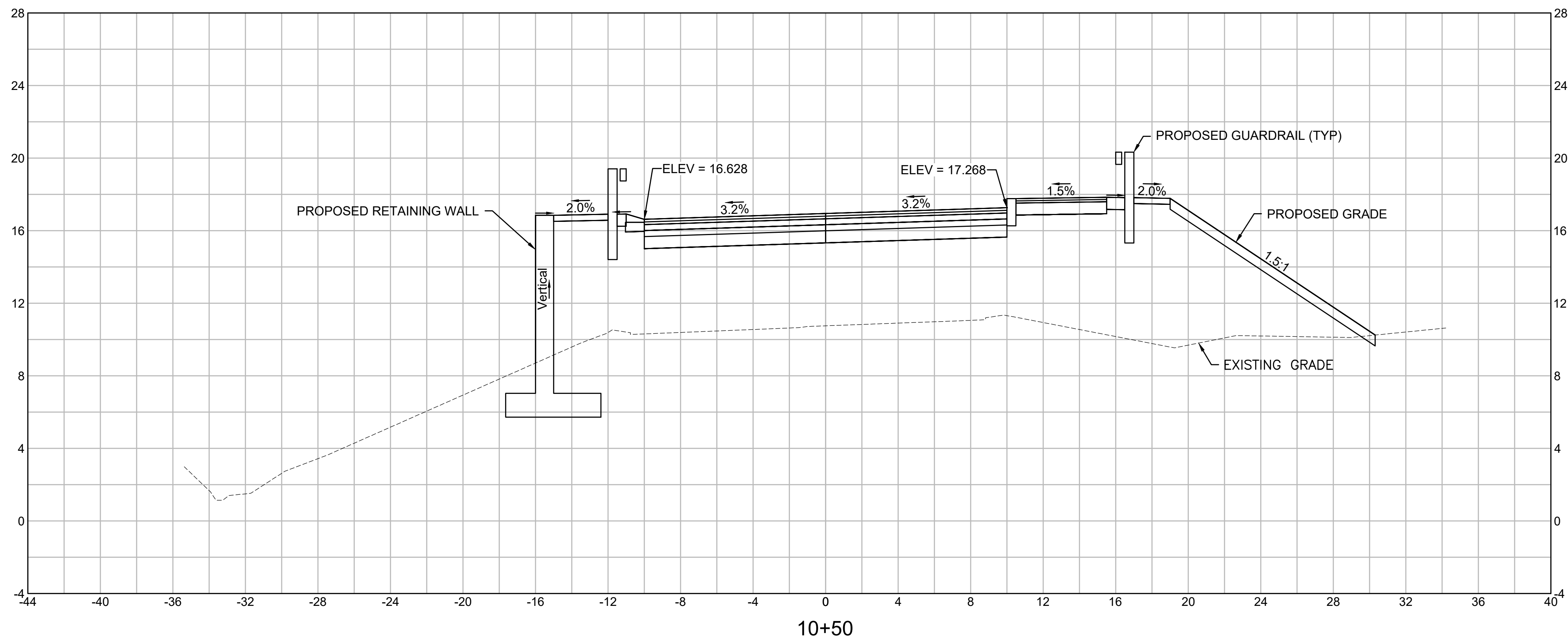
SCALE: AS SHOWN

SHEET 53 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'.

Last Saved: 11/15/2024 11:10am By: MCDermott
 Plotted On: Nov 15, 2024 11:11am
 Title & Path: C:\Users\mcd023\Barnstable\DOT - Commerce Road Improvements & Culvert Replacement\Drawings - Figures\AutoCAD\Yes\Alternate_SideWalk_Location\B-0633-007_C-PL_Design_MassDOT_alt.dwg



SUPERELEVATION:
 PRC STATION 7+32.4
 R = 630.00'
 BANK = 3.2%

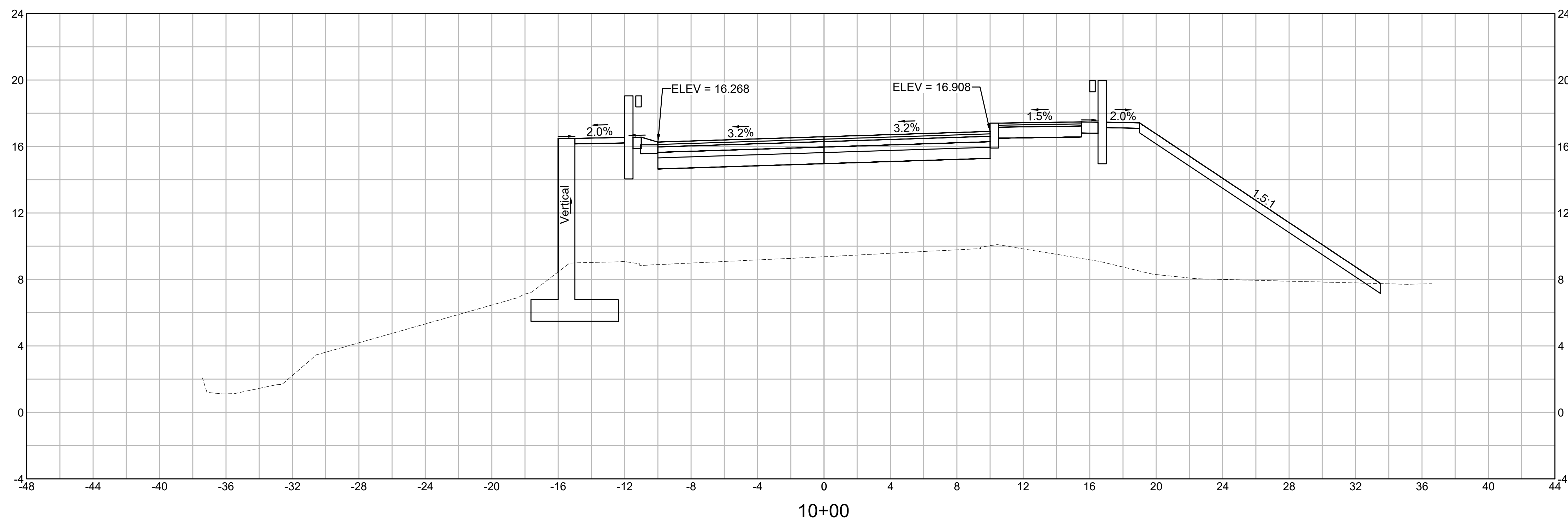
REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

Barnstable, Massachusetts



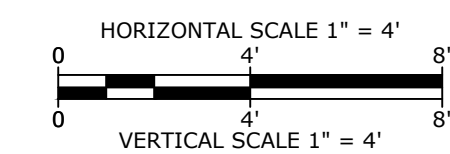
SUPERELEVATION:
 PRC STATION 7+32.4
 R = 630.00'
 BANK = 3.2%

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 12 OF 29)

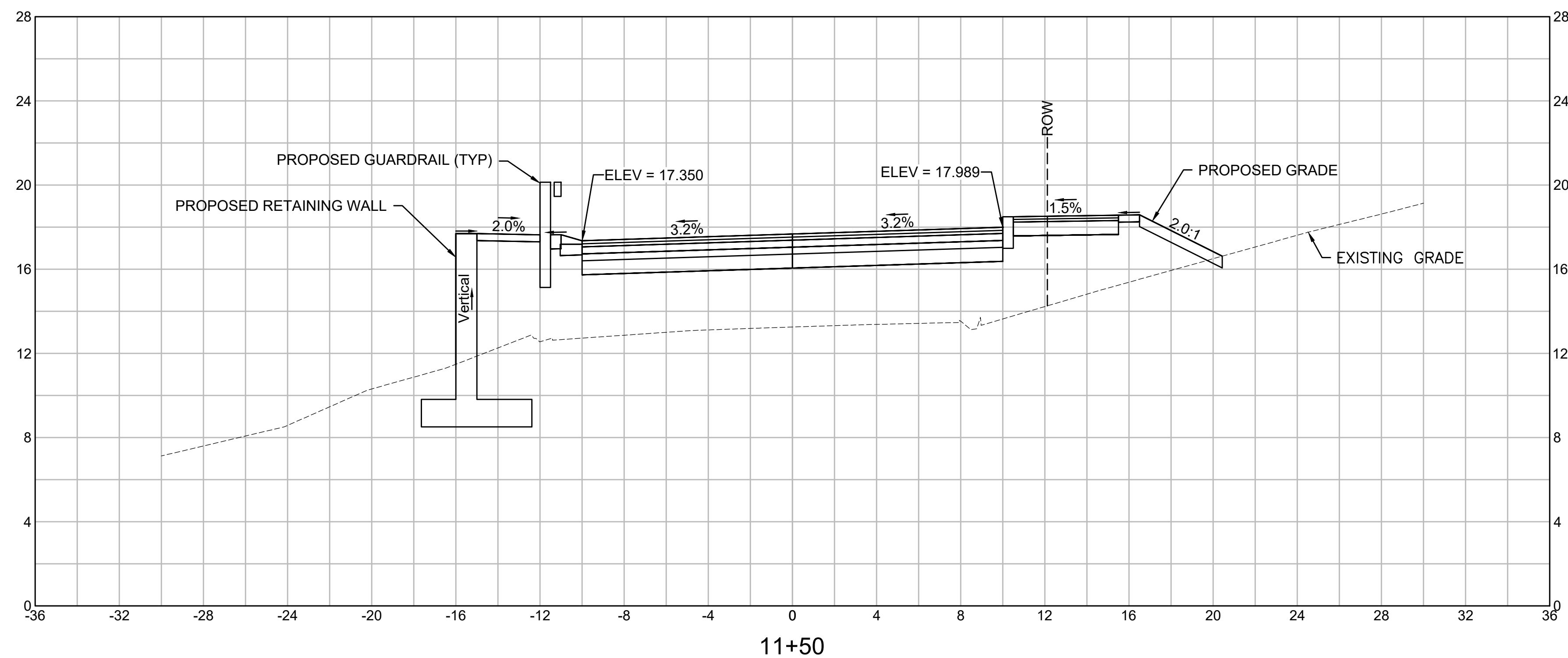
SCALE: AS SHOWN

SHEET 54 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'.

Last Saved: 11/15/2024 11:10am By: MCDermott
 Plotted On: Nov 15, 2024 11:11:11 AM
 File & Path: C:\Users\mcd023\Barnstable\DOT - Commerce Road\Culvert\Drawings - Figures\AutoCAD\Vert\Alternate_Sidewalk_Location\B-0633-007_C-PL_Design_MassDOT_alt.dwg



SUPERELEVATION:
 PRC STATION 7+32.5
 R = 630.00'
 BANK = 3.2%

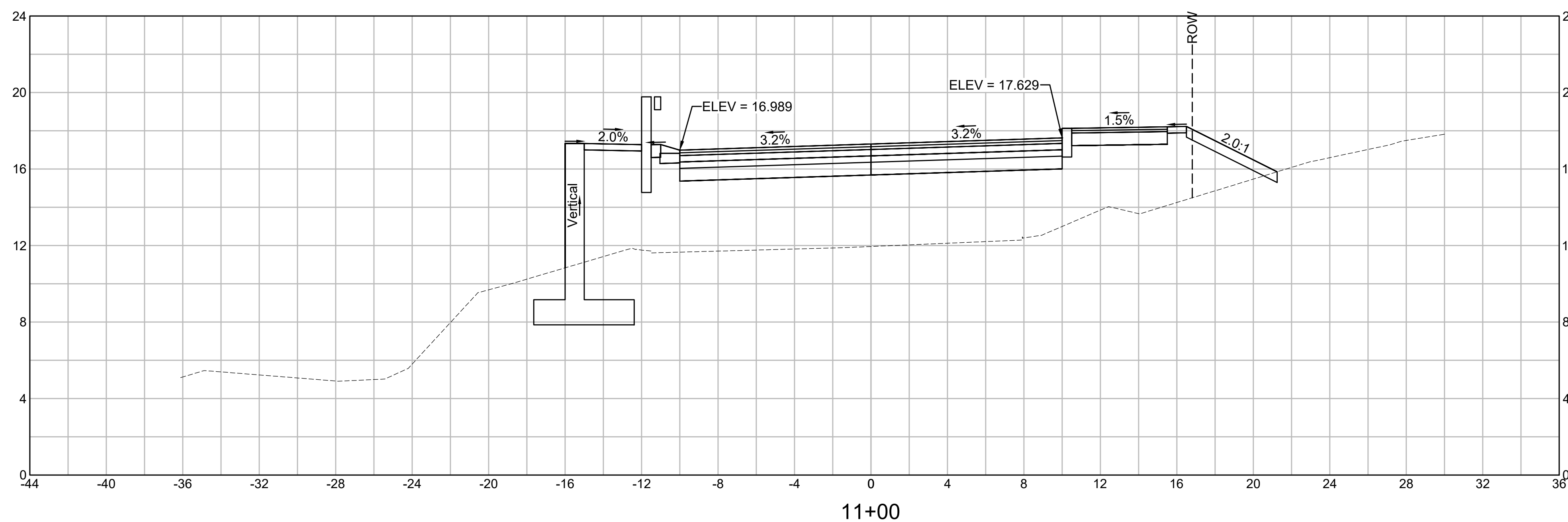
**REVISED 75%
DRAWINGS**

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**Commerce
Road
Improvements
& Culvert
Replacement**

Town of
Barnstable

Barnstable,
Massachusetts

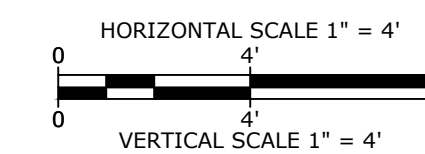


SUPERELEVATION:
 PRC STATION 7+32.5
 R = 630.00'
 BANK = 3.2%

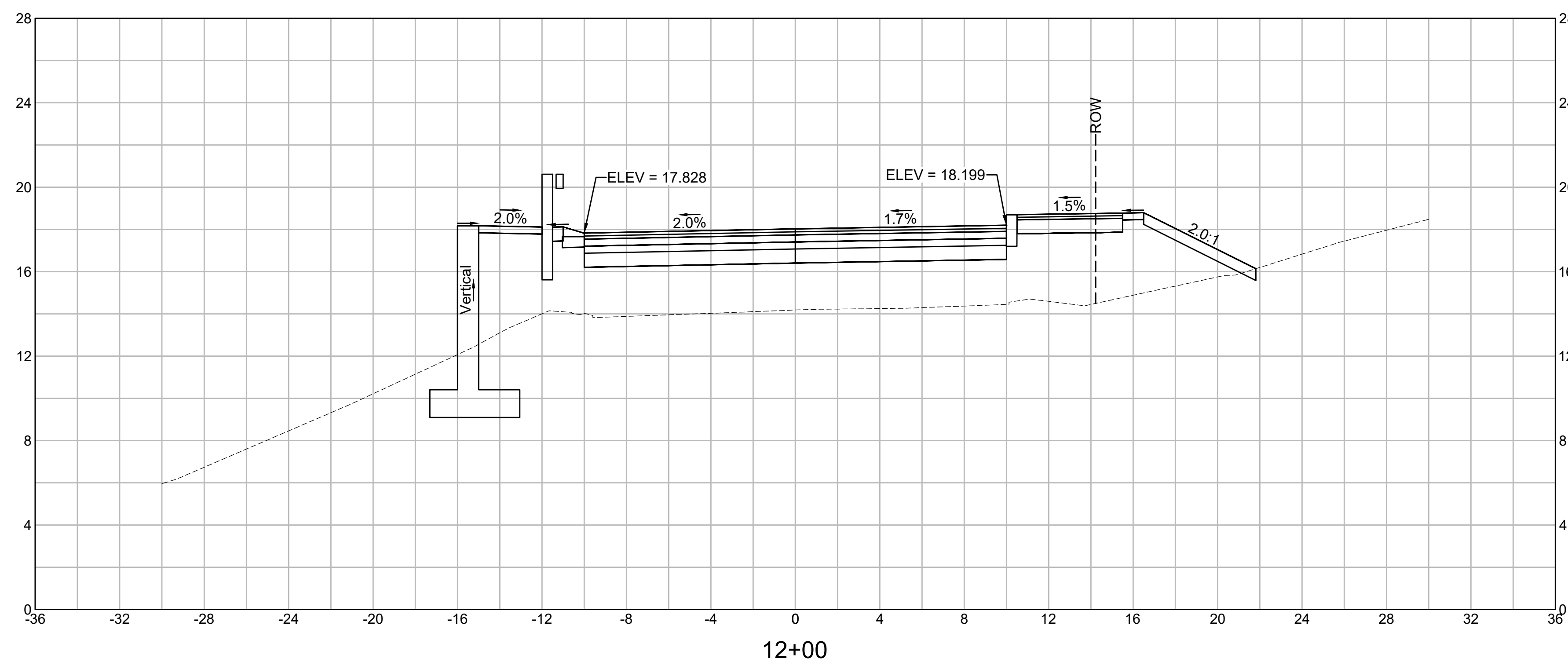
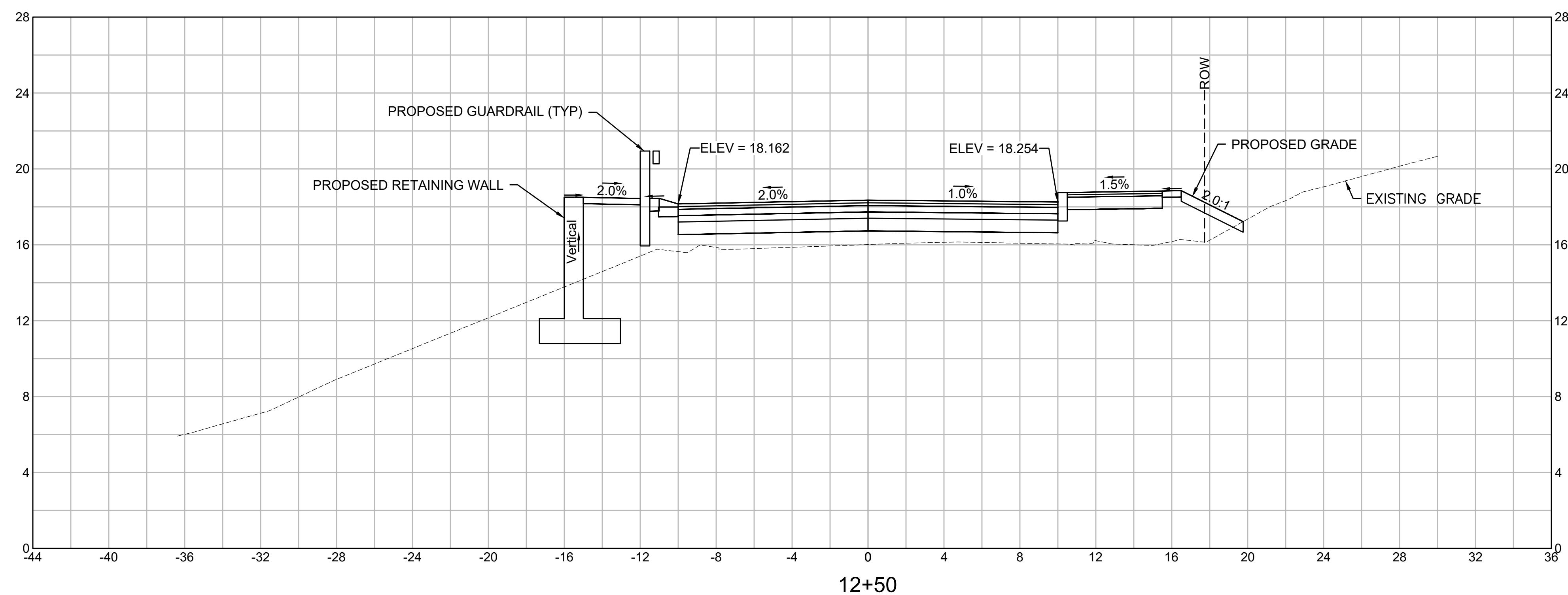
MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

**CROSS SECTIONS
(SHEET 13 OF 29)**

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'



REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

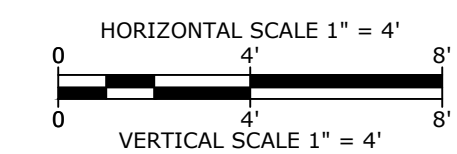
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 14 OF 29)

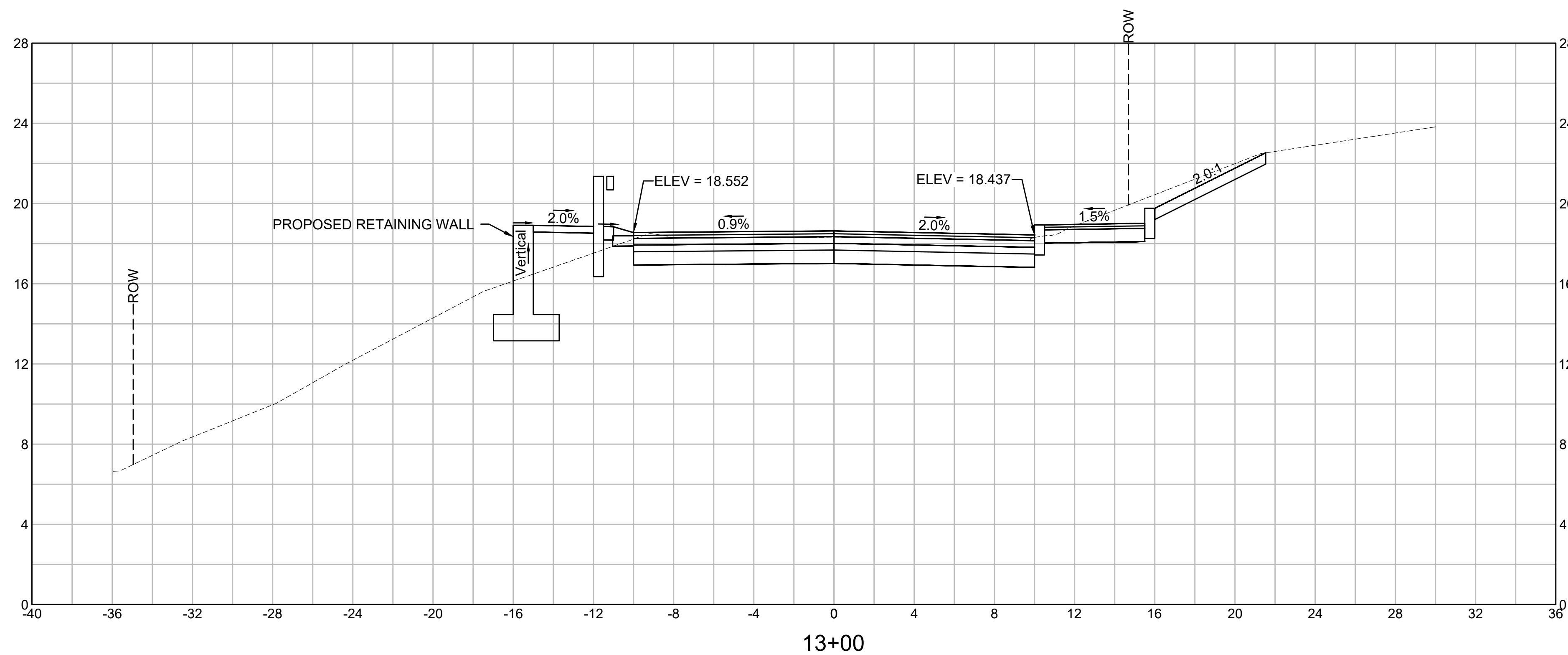
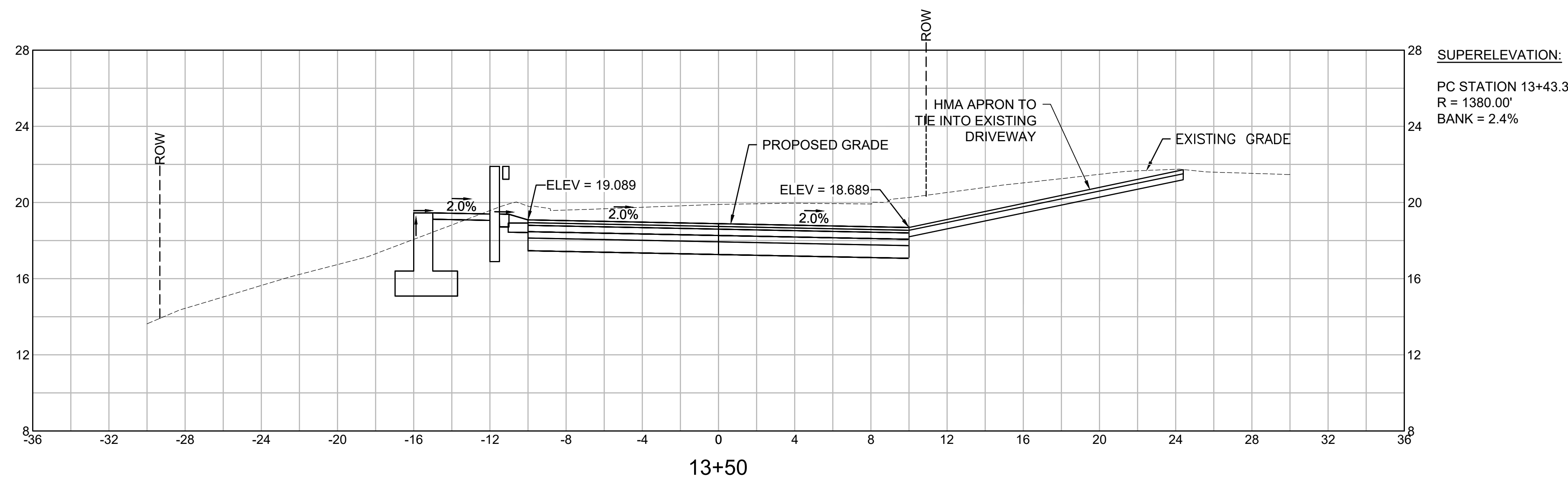
SCALE: AS SHOWN

SHEET 56 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'

Last Saved: 11/15/2024 11:11:11am By: MCDermott
 Plotted On: Nov 15, 2024 11:11:11am
 File: B-0633-007 C-PL Design MassDOT - Commerce Road Culvert Replacement.dwg



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

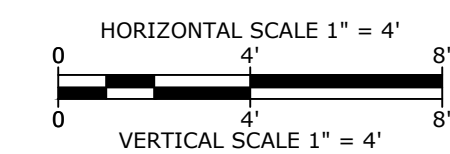
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

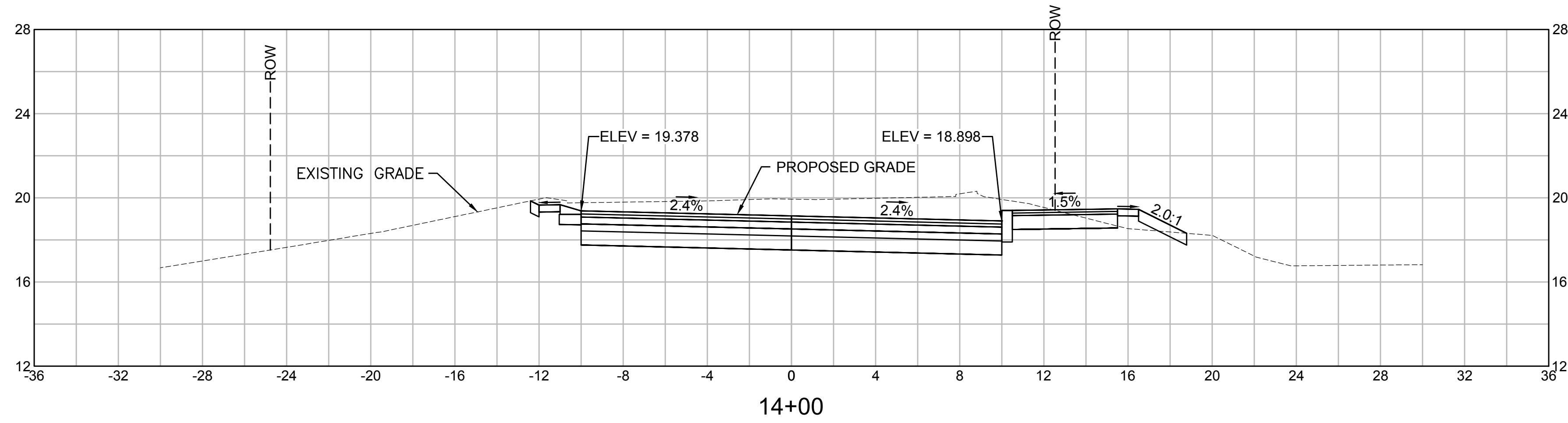
CROSS SECTIONS (SHEET 15 OF 29)

SCALE: AS SHOWN

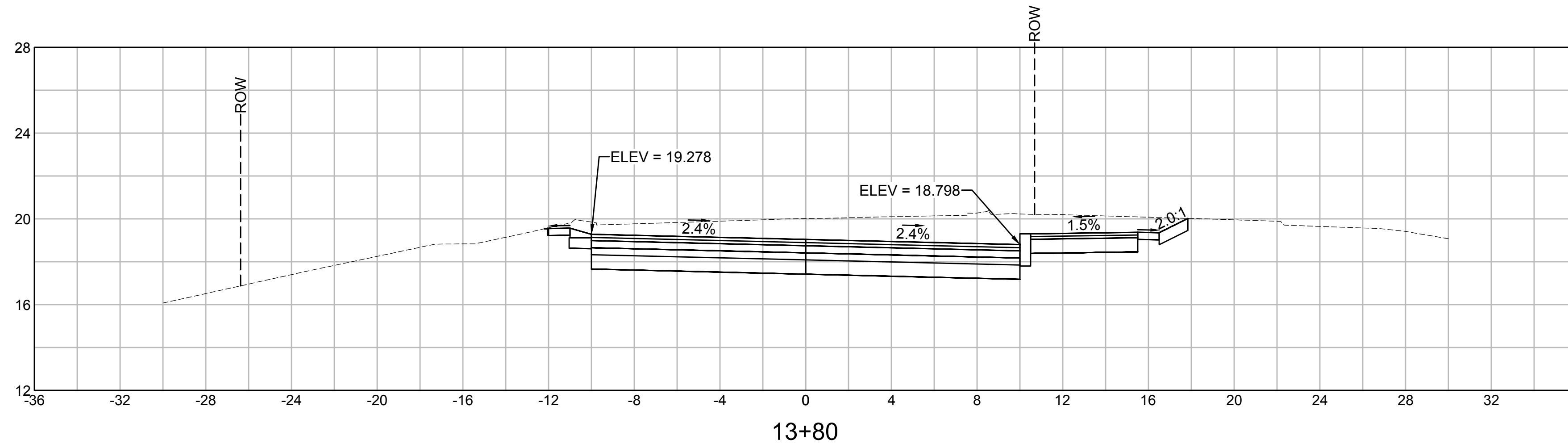
SHEET 57 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



SUPERELEVATION:
 PC STATION 13+43.3
 R = 1380.00'
 BANK = 2.4%



SUPERELEVATION:
 PC STATION 13+43.3
 R = 1380.00'
 BANK = 2.4%

REVISED 75% DRAWINGS

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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

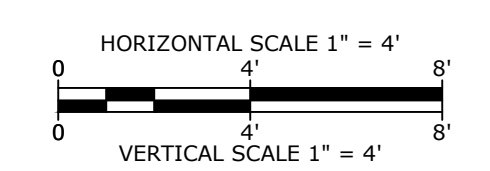
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION

CROSS SECTIONS (SHEET 16 OF 29)

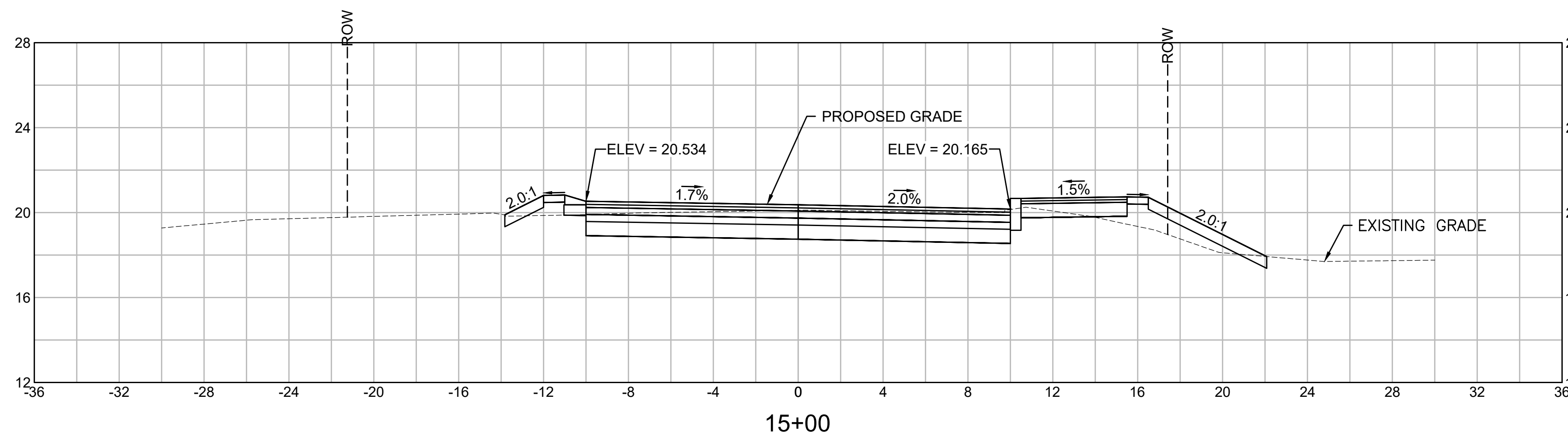
SCALE: AS SHOWN

SHEET 58 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'

Last Saved: 11/15/2024 11:05pm By: MK-Dermet
 Plotted On: Nov 15, 2024 11:05am C:\Users\mkdermet\OneDrive\Barnstable\DOT - Commerce Road\Culvert\Drawings\Figures\AutoCAD\Views\Alternate_Sidewalk_Location\B-0633-007_C-PL_Design_MassDOT_alt.dwg
 Title & Brand: B-0633-007_C-PL_Design_MassDOT



SUPERELEVATION:
 PC STATION 13+43.3
 R = 1380.00'
 BANK = 2.4%

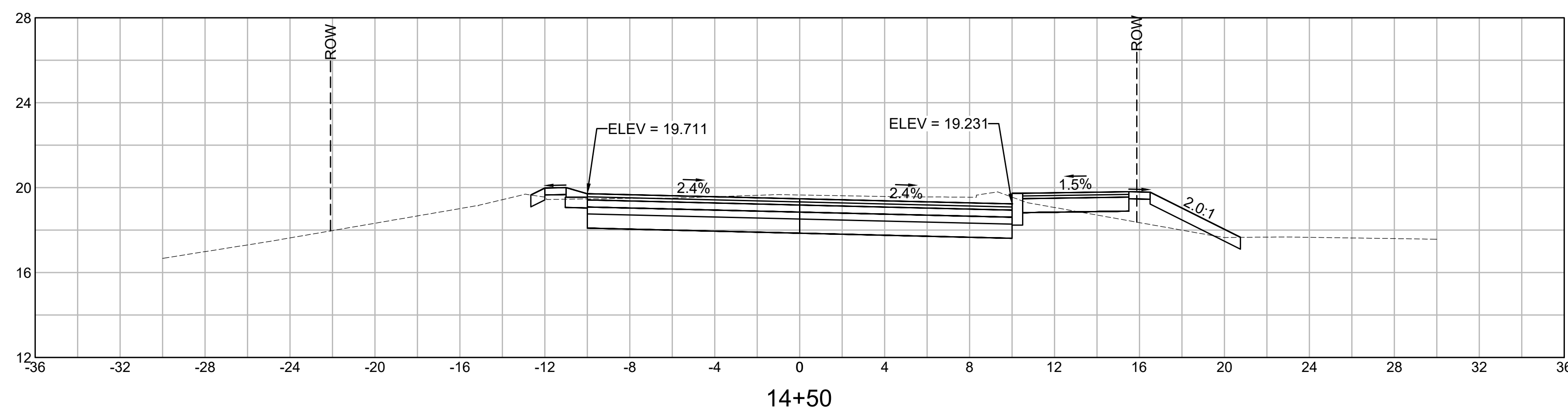
**REVISED 75%
DRAWINGS**

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**Commerce
Road
Improvements
& Culvert
Replacement**

Town of
Barnstable

Barnstable,
Massachusetts



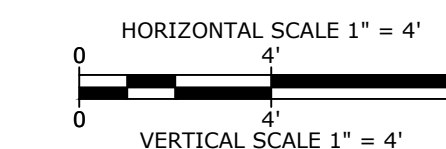
SUPERELEVATION:
 PC STATION 13+43.3
 R = 1380.00'
 BANK = 2.4%

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

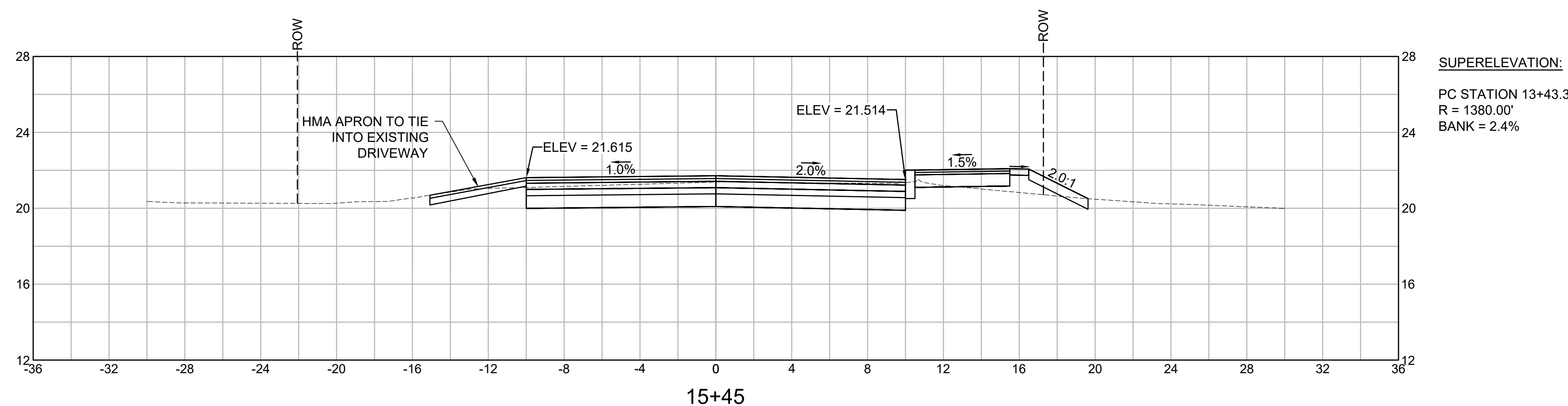
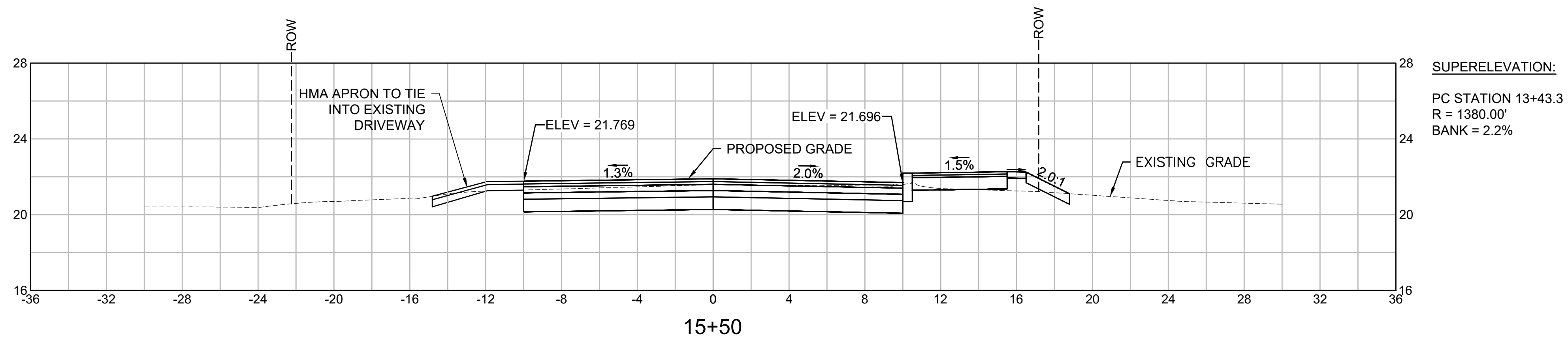
**CROSS SECTIONS
(SHEET 17 OF 29)**

SCALE: AS SHOWN

SHEET 59 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

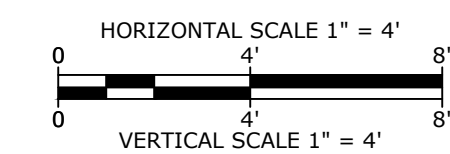
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

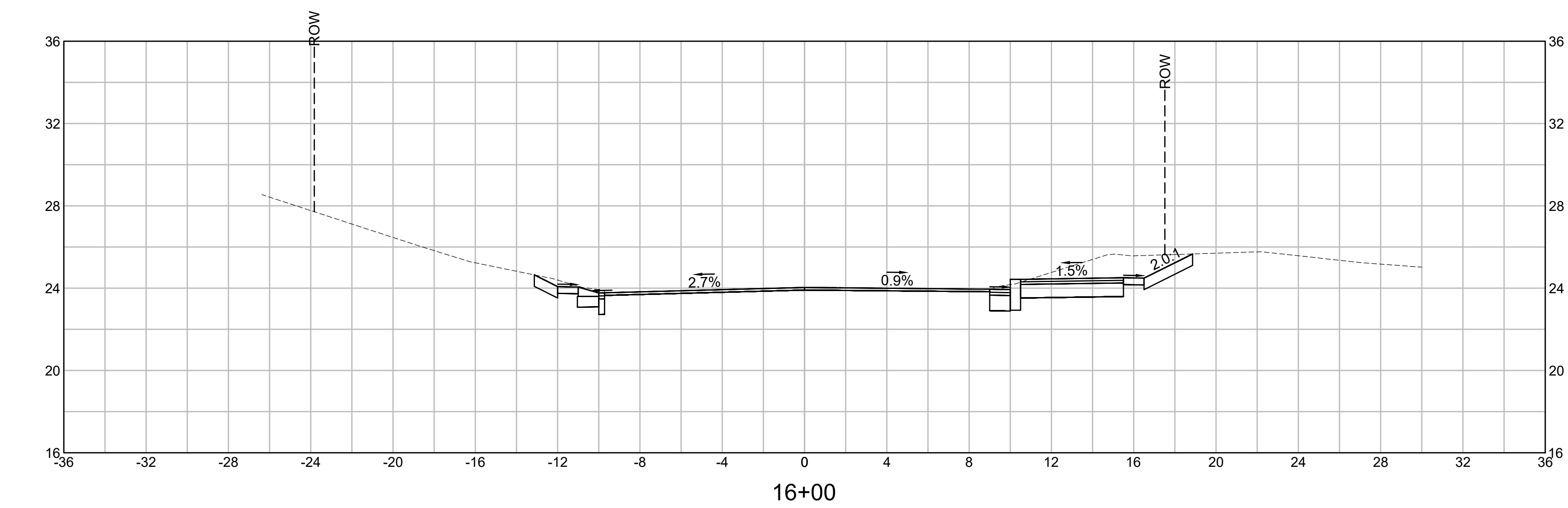
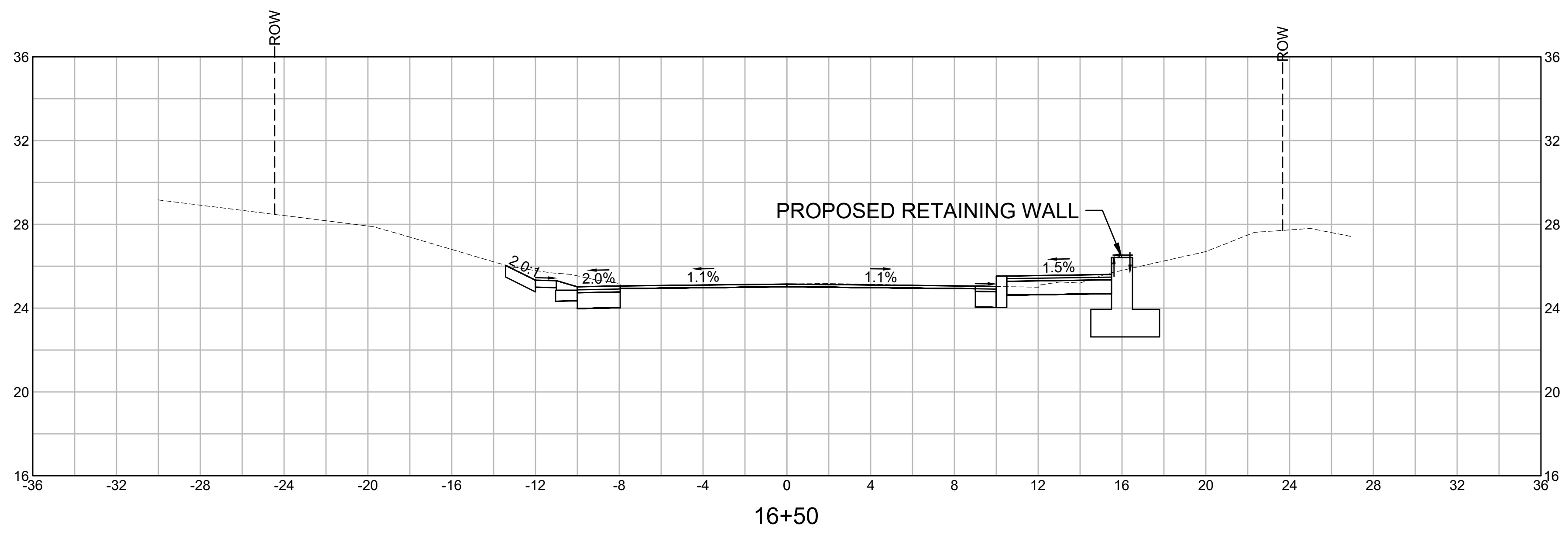
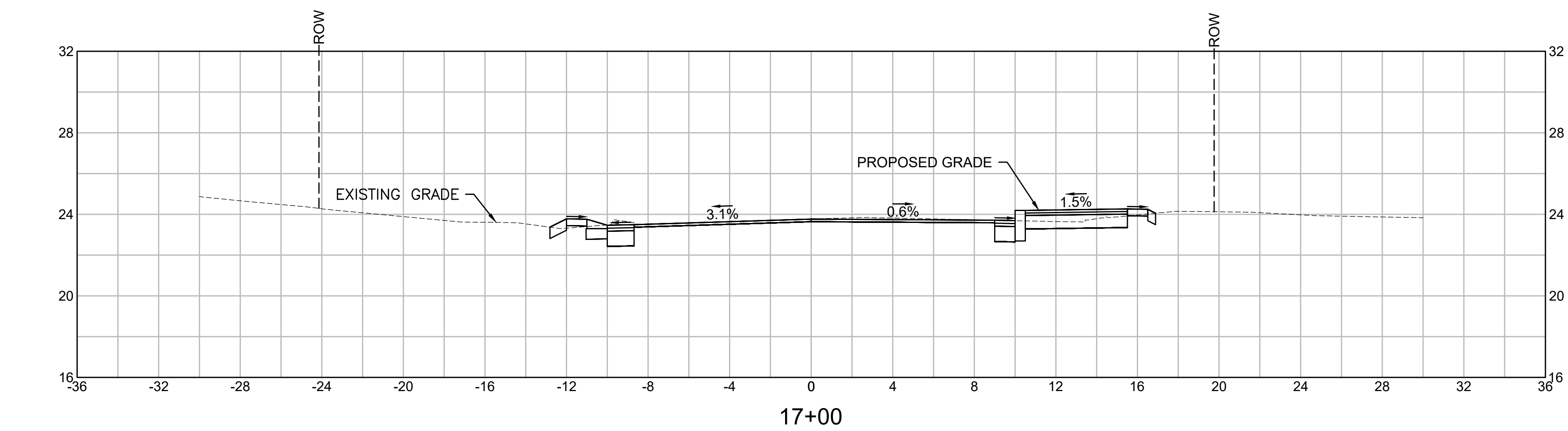
CROSS SECTIONS (SHEET 18 OF 29)

SCALE: AS SHOWN

SHEET 60 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

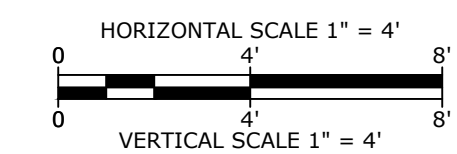
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 19 OF 29)

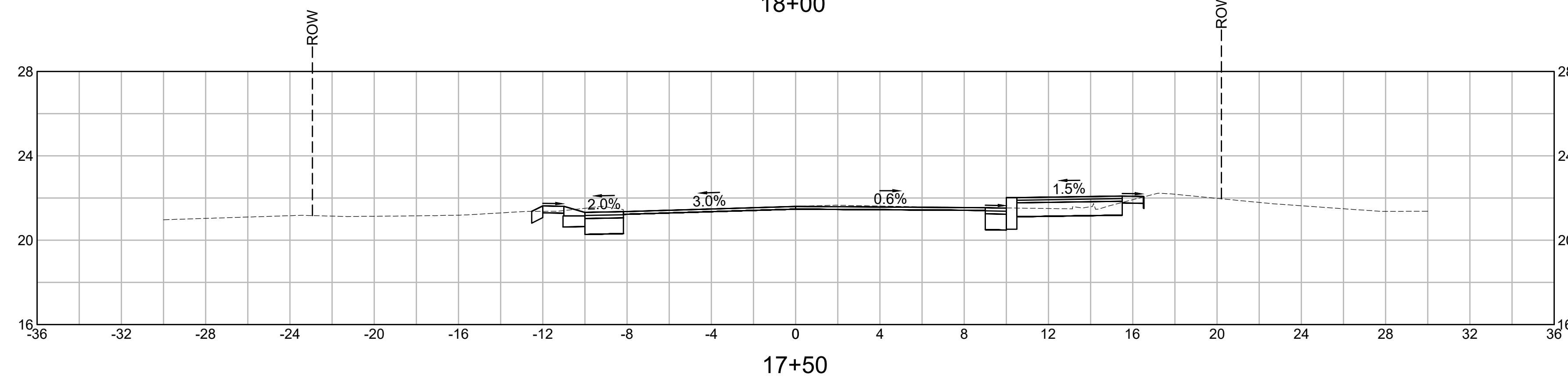
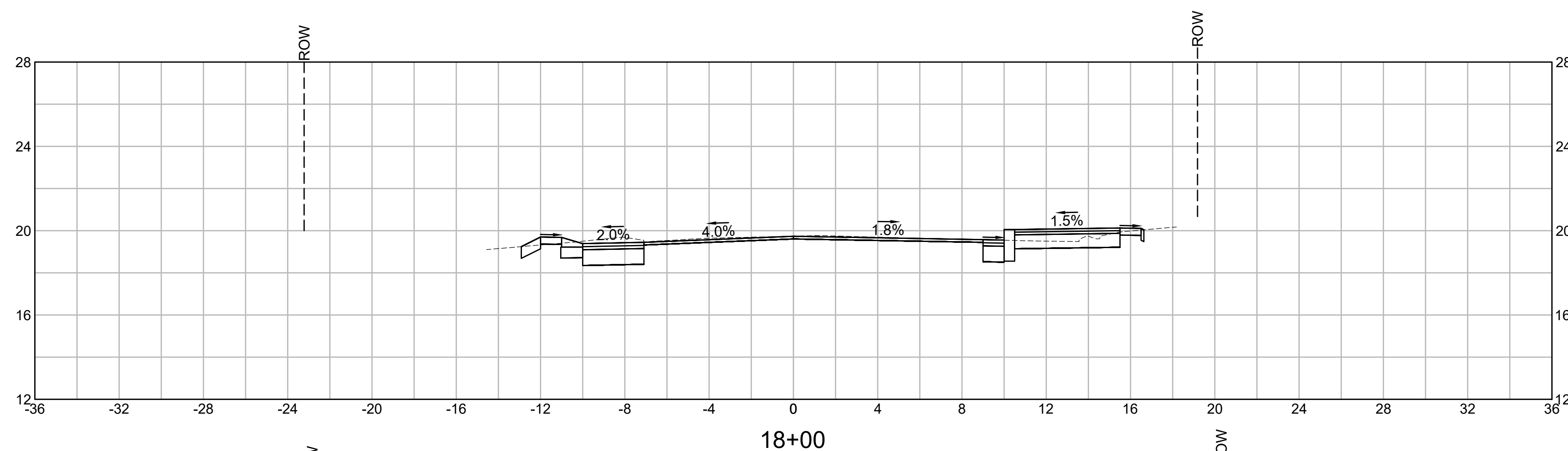
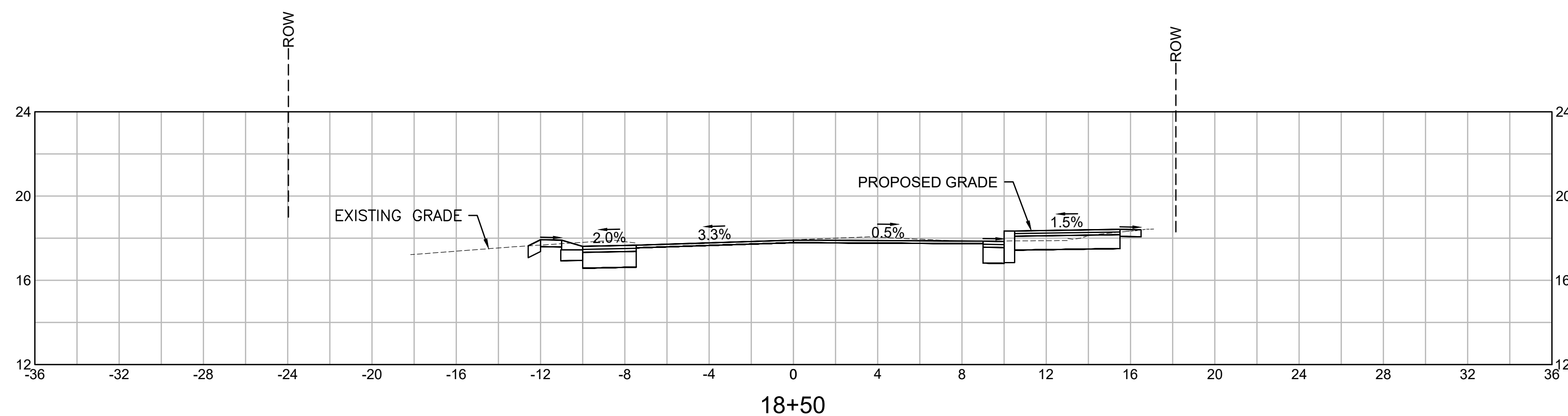
SCALE: AS SHOWN

SHEET 61 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'.

Last Saved: 11/15/2024 11:11:12am By: MCDermott
 Plotted On: Nov 15, 2024 11:11:12am
 Title & Board: 160633-007 Commerce Road Culvert Replacement (Drawings - Figures/AutoCAD/Views/Alternate Sidewalk Location/B-0633-007 C-PL Design MassDOT_alt.dwg)



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

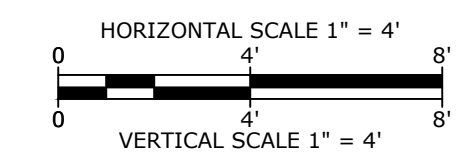
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

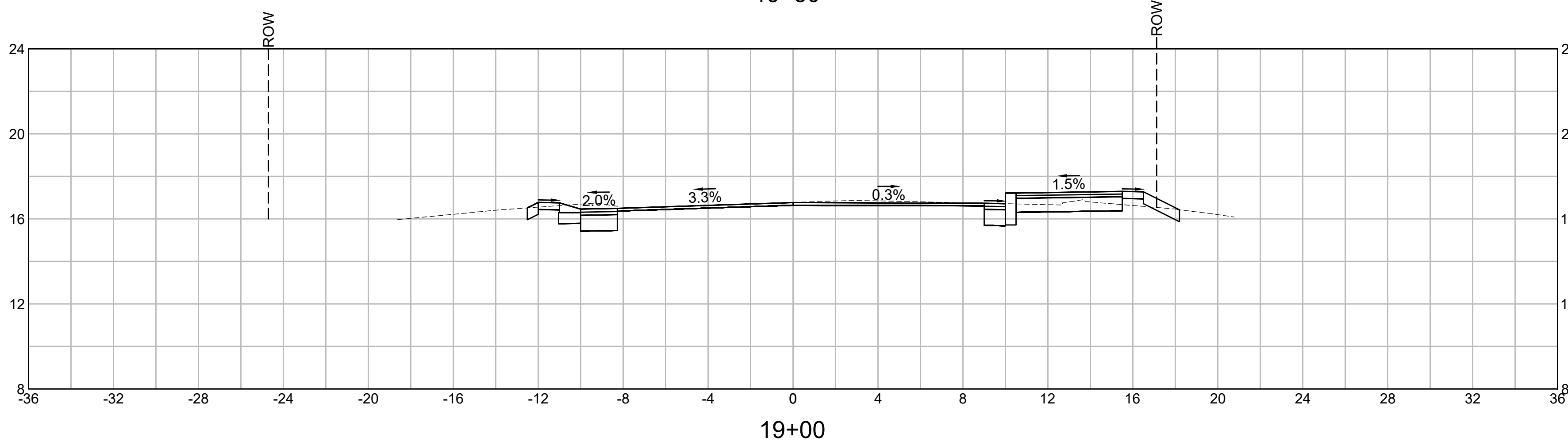
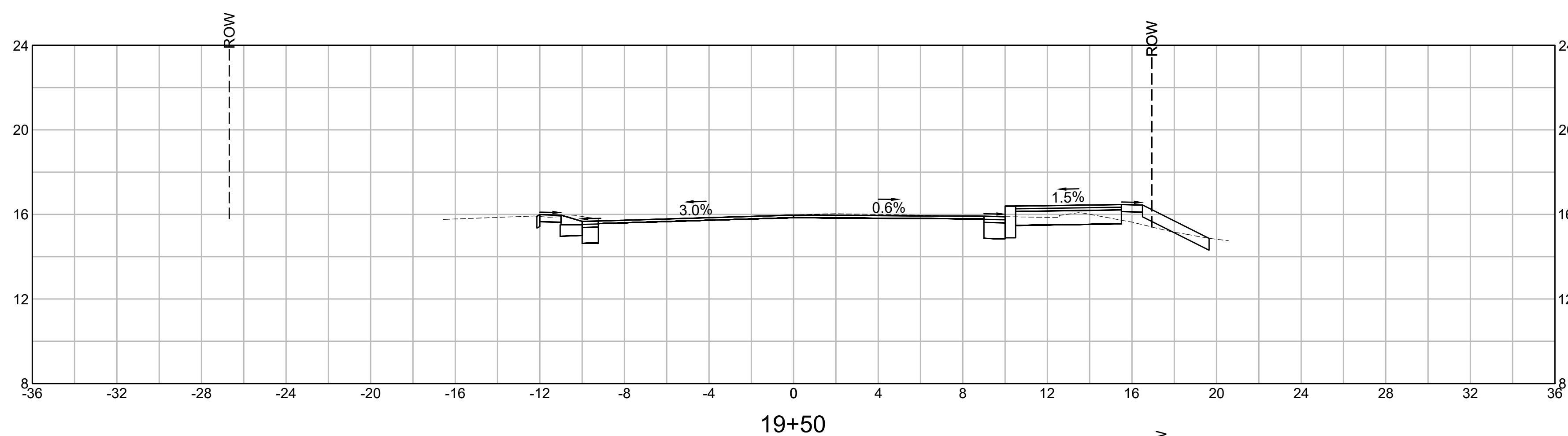
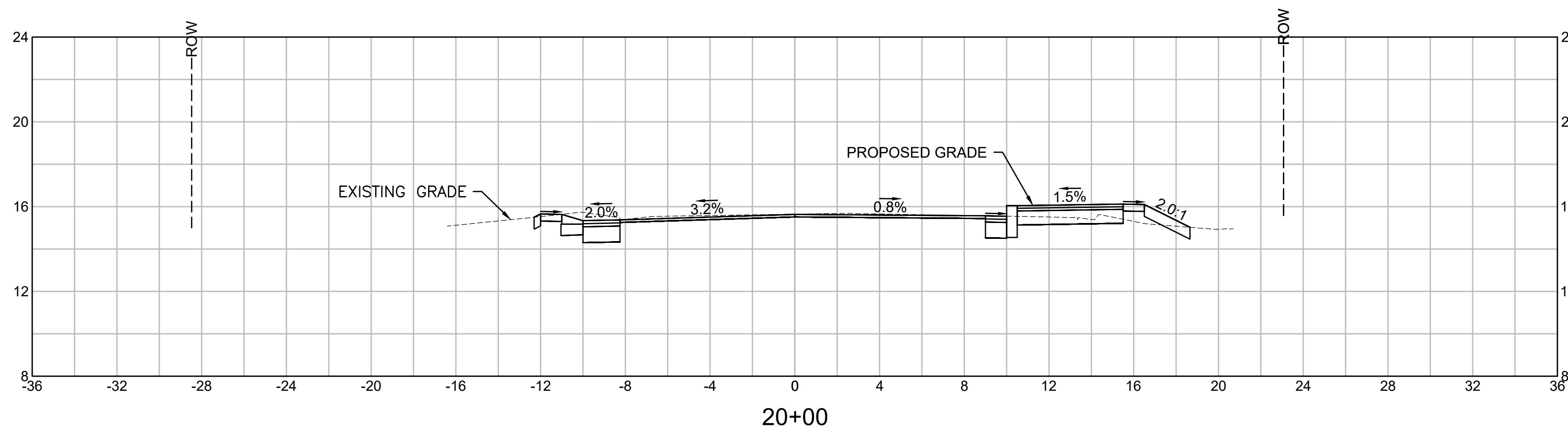
CROSS SECTIONS (SHEET 20 OF 29)

SCALE: AS SHOWN

SHEET 62 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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**Commerce
Road
Improvements
& Culvert
Replacement**

Town of
Barnstable

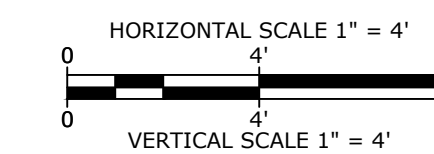
Barnstable,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

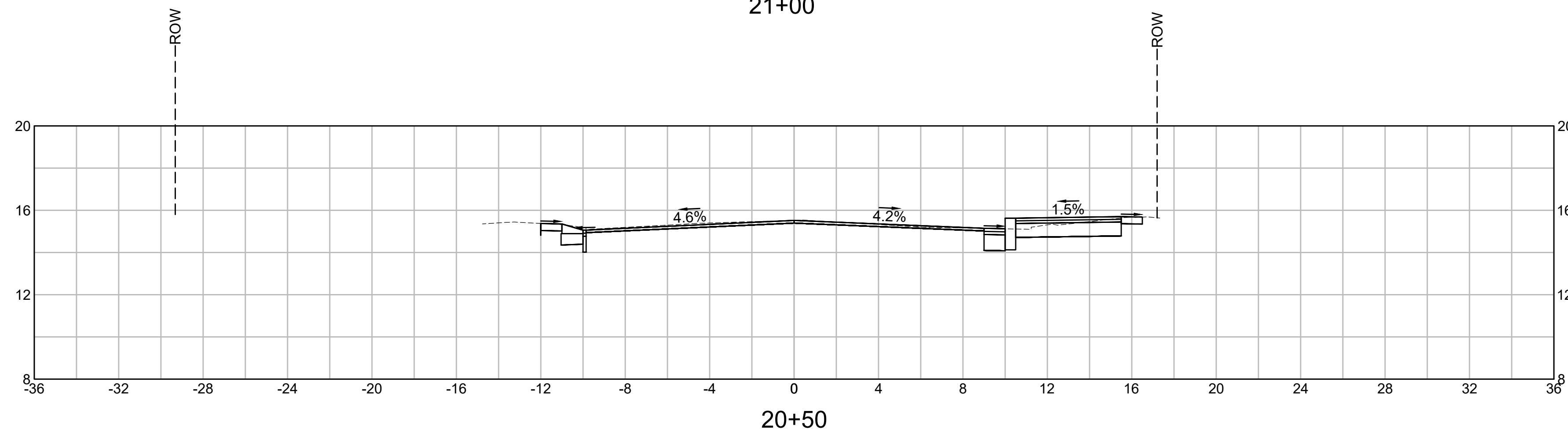
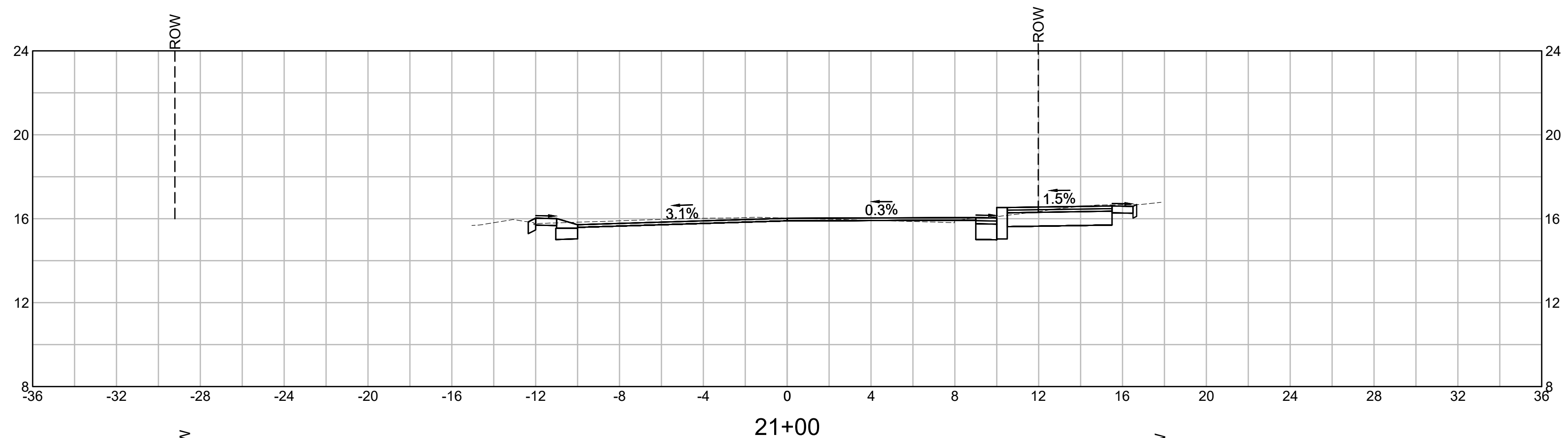
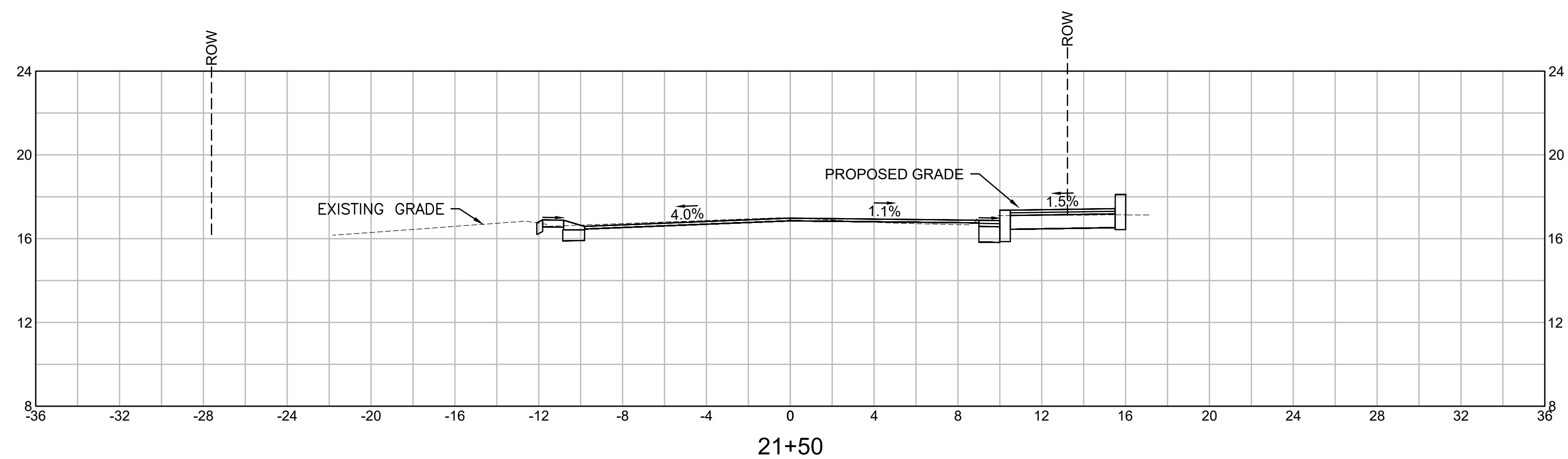
**CROSS SECTIONS
(SHEET 21 OF 29)**

SCALE: AS SHOWN

SHEET 63 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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DRAWINGS**

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**Commerce
Road
Improvements
& Culvert
Replacement**

Town of
Barnstable

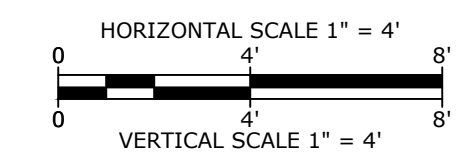
Barnstable,
Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

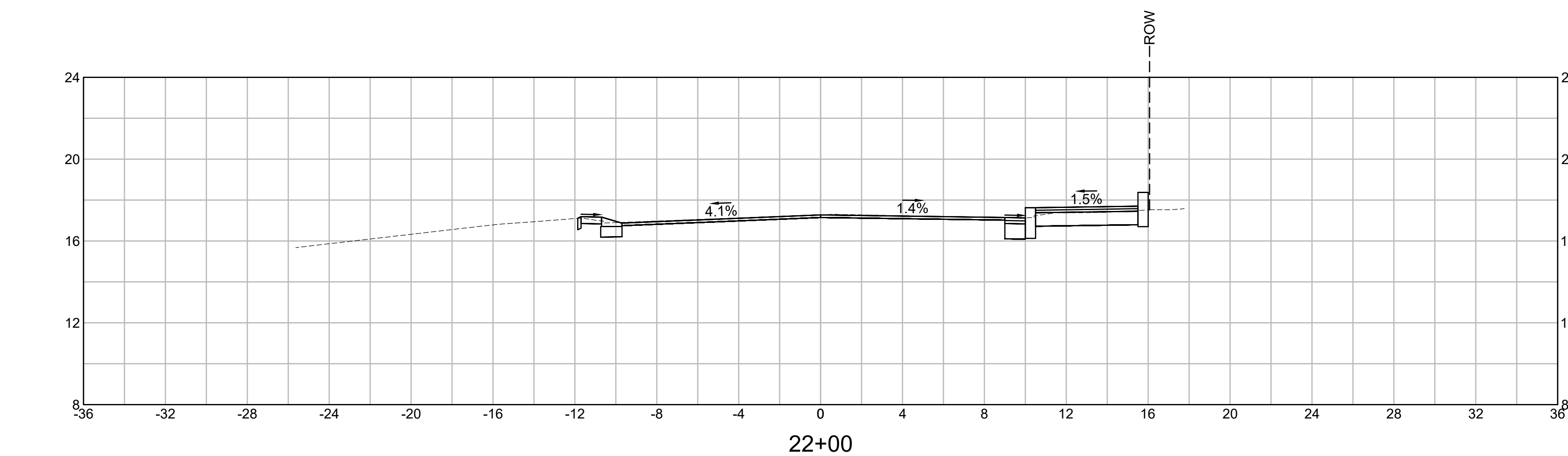
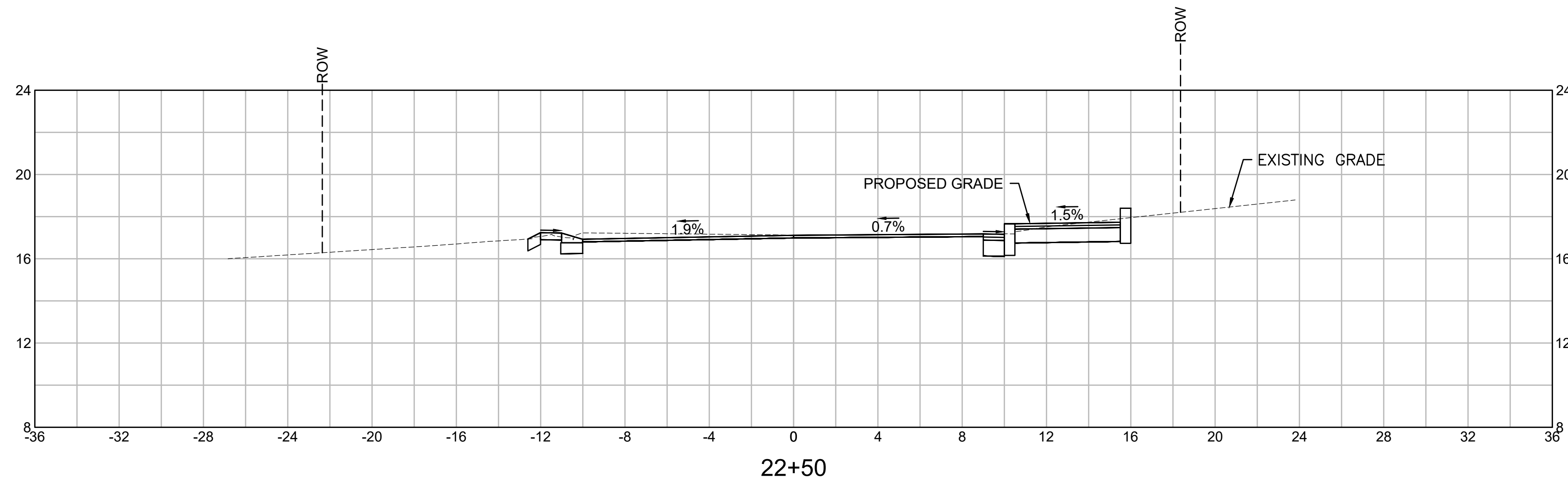
**CROSS SECTIONS
(SHEET 22 OF 29)**

SCALE: AS SHOWN

SHEET 64 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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Commerce Road Improvements & Culvert Replacement

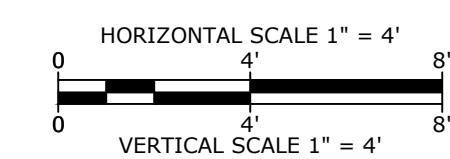
Town of Barnstable

Barnstable, Massachusetts

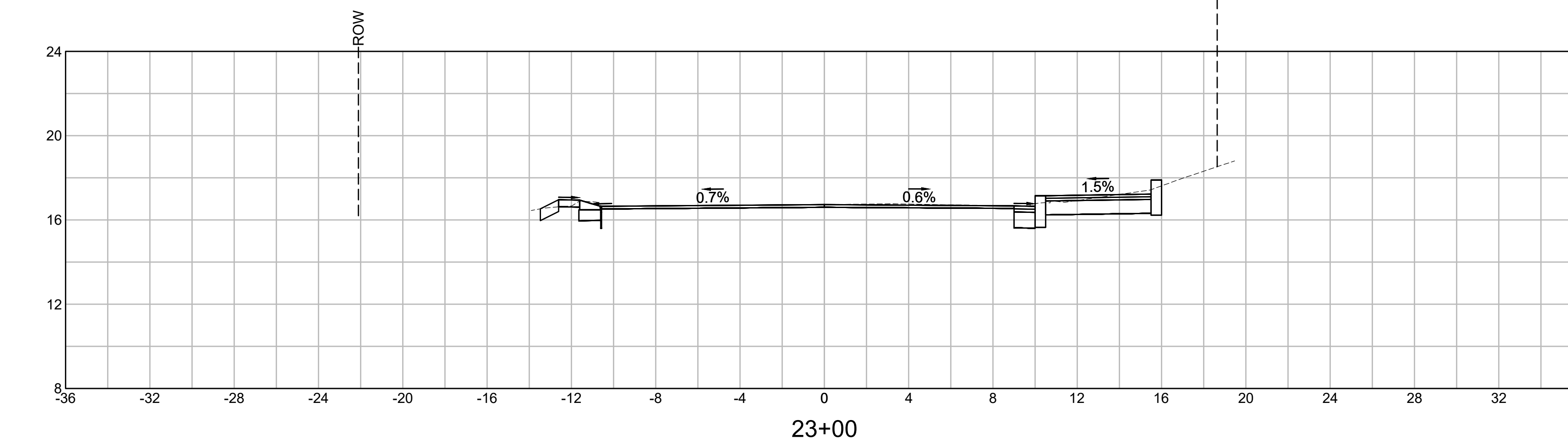
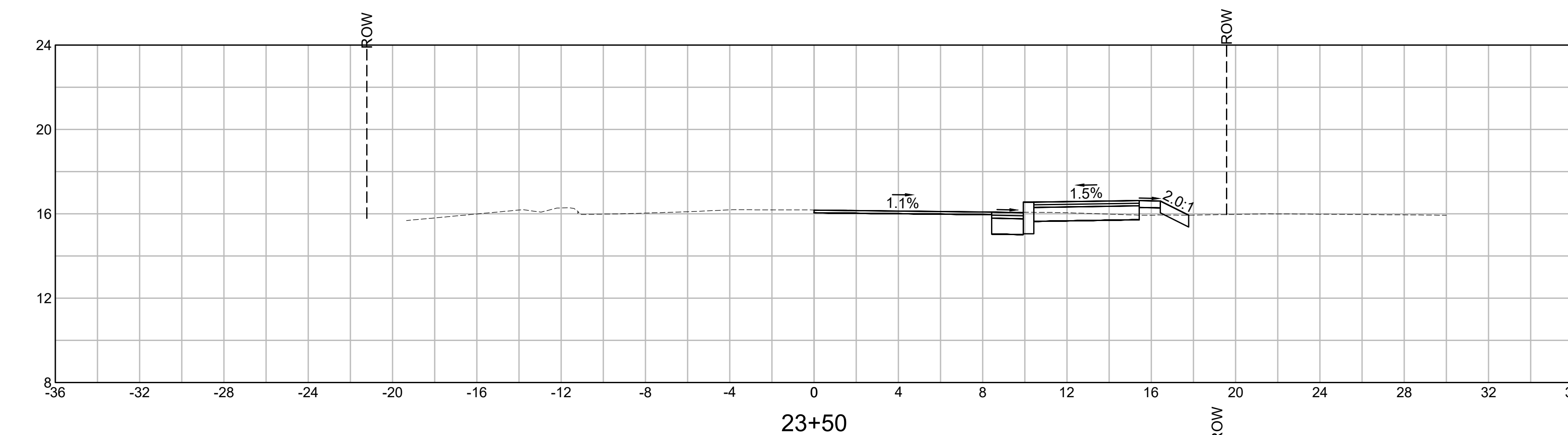
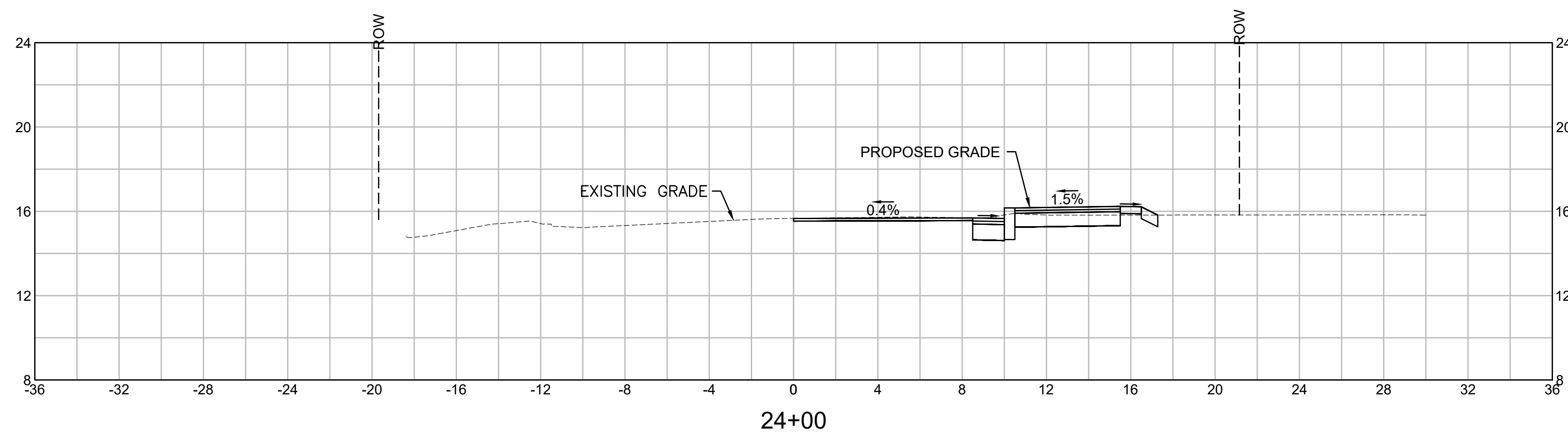
MARK	DATE	DESCRIPTION

CROSS SECTIONS (SHEET 23 OF 29)

SCALE: AS SHOWN



NOTE: MEAN LOW WATER (MLW) IS -5.39'



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Commerce Road Improvements & Culvert Replacement

Town of Barnstable

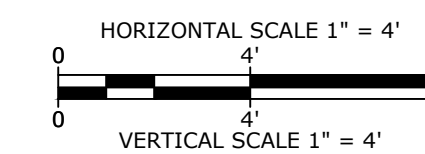
Barnstable, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-007	
DATE:	NOVEMBER 2024	
FILE:	B-0633-007 C-PL Design MassDOT_alt.dwg	
DRAWN BY:	MMM	
DESIGNED/CHECKED BY:	EAO	
APPROVED BY:	DLM	

CROSS SECTIONS (SHEET 24 OF 29)

SCALE: AS SHOWN

SHEET 66 OF 83



NOTE: MEAN LOW WATER (MLW) IS -5.39'