MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	1	199
PROJECT FILE NO.	609204		

TITLE SHEET & INDEX

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PLAN AND PROFILE OF

BELMONT COMMUNITY PATH - PHASE 1

BELMONT COMPONENT OF THE MASS CENTRAL RAIL TRAIL

IN THE TOWN OF

BELMONT

MIDDLESEX COUNTY

FEDERAL AID PROJECT NO.

100% SUBMITTAL

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

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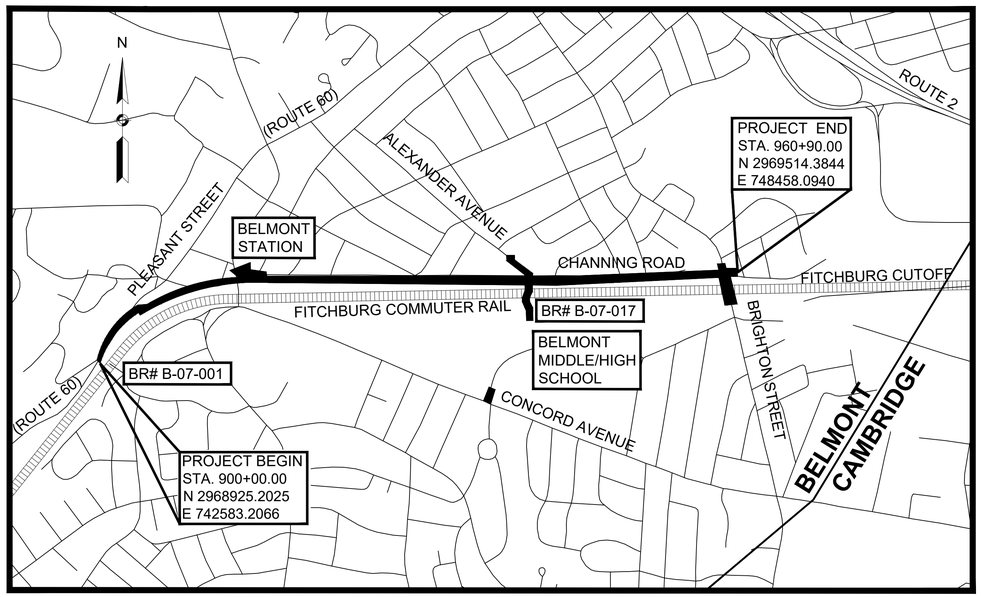

0 200 400 600 800

SCALE: 1" = 200'

LENGTH OF PROJECT = 6090.00 FEET = 1.153 MILES

SHARED USE PATH DESIGN DESIGNATION

DESIGN SPEED	18 MPH
MINIMUM HORIZONTAL CURVE RADIUS	60'
MINIMUM LENGTH OF CREST VERTICAL CURVE	100'
MAXIMUM GRADE FOR LEVEL TERRRAIN	4.5% ±0.5%
	(7.5% MAX AT ADA/AAB ACCESSIBLE RAMPS)

DATE	DESCRIPTION	REV #
12/17/2025	100% SUBMISSION	4
09/10/2025	75% SUBMISSION	3
02/18/2022	25% SUBMISSION REVISED UTILITY PLANS (53-60)	2
10/29/2021	25% SUBMISSION	1

massDOT Massachusetts Department of Transportation Highway Division

APPROVED

CHIEF ENGINEER _____ DATE _____

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► Land Surveying
► Transportation Engineering
► Structural Engineering
► Green Infrastructure
► Planning
► GIS

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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		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	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
100 99		CONTOURS (ON-THE-GROUND SURVEY DATA)
100 99		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		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
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE - 12" WIDE
	CW	CROSSWALK - 12" WIDE
	SWL	SOLID WHITE LINE - 4" / 6" WIDE
	SYL	SOLID YELLOW LINE - 4" / 6" WIDE
	BWL	BROKEN WHITE LINE - 4" / 6" WIDE - 10' LINE AND 30' GAP
	BYL	BROKEN YELLOW LINE - 4" / 6" WIDE - 10' LINE AND 30' GAP
	DWL	DOTTED WHITE LINE - 6" WIDE - 3' LINE AND 9' GAP
	DYL	DOTTED YELLOW LINE - 6" WIDE - 3' LINE AND 9' GAP
	DWLEx	DOTTED WHITE LINE EXTENSION - 6" WIDE - 2' LINE AND 6' GAP
	DYLEx	DOTTED YELLOW LINE EXTENSION - 6" WIDE - 2' LINE AND 6' GAP
	DBWL	DOUBLE WHITE LINE - 6" WIDE
	DBYL	DOUBLE YELLOW LINE - 6" WIDE

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
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
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
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	2	199
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LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL

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
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	3	199
PROJECT FILE NO.	609204		

GENERAL NOTES

GENERAL NOTES

1. THE EXISTING TOPOGRAPHIC CONDITIONS SHOWN ON THESE PLANS CONSIST OF ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY NITSCH ENGINEERING SEPTEMBER 2019, MAY 2021 AND JANUARY 2025.

2. COORDINATES ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). ELEVATIONS ARE PROVIDED IN US SURVEY FEET, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND ELEVATIONS AT THE LOCATIONS WHERE PROPOSED WORK MEETS EXISTING CONDITIONS.

4. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS OWN DETERMINATION OF SUBSURFACE CONDITIONS INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT THEIR WORK.

5. EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM FIELD SURVEYS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. 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 THIS INFORMATION FURNISHED TO THE ENGINEER.

6. THE RELOCATION, INSTALLATION OR REMOVAL OF PRIVATE UTILITIES SHALL BE ACCOMPLISHED BY THEIR OWNERS, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH THE PRIVATE UTILITY COMPANIES AND ALLOW THEM ADEQUATE TIME TO COMPLETE THEIR WORK IN ADVANCE OF PERFORMING ANY PAVING OPERATIONS OR OTHER FINISHED WORK.

7. AREAS OUTSIDE OF THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.

8. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AT LEAST 72 BUSINESS HOURS PRIOR TO COMMENCING WORK ON THE PROJECT. NOTE THAT BELMONT, MASSDOT, MBTA MAY NOT BE MEMBERS OF DIG SAFE.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND FOR MAINTAINING COMPOST FILTER TUBES, SILT FENCE(S), AND OTHER EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT AT AREAS WHERE SHOWN ON THE PLANS AND REQUIRED BY THE ENGINEER.

10. NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES AND LEGAL REQUIREMENTS, IN THE CONSTRUCTION OF IMPROVEMENTS.

12. ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES. EXCAVATIONS SHALL BE BACK FILLED DAILY AT THE COMPLETION OF WORK.

13. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES. IF THE CONTRACTOR DAMAGES UTILITY SYSTEMS, THEY SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL REPAIR/REPLACE THE AFFECTED SYSTEM AT THEIR OWN EXPENSE.

14. ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

15. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.

16. THE TEMPORARY TRAFFIC CONTROL PLAN INDICATES THE GENERAL REQUIREMENTS FOR THE VARIOUS PHASES OF WORK. THE CONTRACTOR SHALL SUBMIT DETAILED TRAFFIC MANAGEMENT PLANS TO THE ENGINEER FOR APPROVAL.

17. THE FLOW OF TRAFFIC THROUGH THE SITE MUST BE MAINTAINED AS SHOWN ON THE TRAFFIC CONTROL PLAN AND SPECIFIED IN THE SPECIAL PROVISIONS. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE PARKED OR STOCKPILED SO AS TO OBSTRUCT THE FLOW OF VEHICLES.

18. SURFACE JOINTS BETWEEN NEW HOT MIX ASPHALT ROADWAY AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT SEALANT.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	4	199
PROJECT FILE NO.	609204		

KEY PLAN

LEGEND:

- XX — BASELINE TIES PLAN
- XX — PLAN AND PROFILE PLAN
- XX — TRAFFIC SIGN AND PAVEMENT MARKINGS PLAN
- XX — TRAFFIC SIGNAL PLAN
- XX — DRAINAGE & UTILITY PLAN
- X-# BORING LOCATION

N

PLEASANT STREET
LEONARD STREET
CLAFLIN STREET
CROSS STREET
FARM ROAD
ALEXANDER AVENUE
SHERMAN STREET
JASON ROAD
DEAN STREET
STATLER ROAD
WATERHOUSE ROAD
NEWCASTLE ROAD
BRIGHTON STREET
CONCORD AVENUE
CHANNING ROAD
W4-1
W3-5
W3-2
W3-4
W3-3
W5-2
W5-6
933+26.58 BELMONT COMMUNITY PATH= 502+09.19 ALEXANDER AVE SPUR
PROJECT END
STA 960+90
N2969514.3844
E748458.0940
FITCHBURG CUTOFF
W1-6
W1-1
W1-4
W1-3
W1-2
ROYAL ROAD
COMMON STREET
BELMONT STATION
MBTA FITCHBURG LINE
916+87.53 BELMONT COMMUNITY PATH= 2+21.72 7 CHANNING ROAD
PROPOSED UNDERPASS
BELMONT MIDDLE AND HIGH SCHOOL
GODEN STREET
CLAY PIT POND
HITTINGER STREET
959+53.87 BELMONT COMMUNITY PATH= 201+73.42 BRIGHTON ST
CLARK STREET
CLARK STREET PEDESTRIAN BRIDGE BR# B-07-001
PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

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SCALE: 1" = 200'

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BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE PLAN THUS: ⊕ X-#
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 WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
4. FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
5. BORINGS WERE MADE IN JUNE 2020, AUGUST 2021, SEPTEMBER 2021, AND APRIL 2024.
6. BORINGS WERE MADE BY NEW ENGLAND BORING CONTRACTORS, 40 FORDWAY STREET, DERRY, NH 03038
7. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.
8. BORING SAMPLES ARE STORED AT A STORAGE FACILITY LOCATED ON ROUTE 114 (219 WINTHROP AVE.) IN LAWRENCE, MA. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE MASSDOT GEOTECHNICAL SECTION AT 10 PARK PLAZA, BOSTON, MA.
9. THE WATER LEVELS RECORDED IN THE TABLE ARE THOSE MEASURED ON THE DATES GIVEN AND DO NOT NECESSARILY REPRESENT GROUND WATER LEVEL AT THE TIME OF CONSTRUCTION.

BELMONT
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BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-1
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Chris Knight
Logged By: A. Lupo
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969008.66 - E742605.9
Ground Surface Elev. (ft.): 72.7
Final Boring Depth (ft.): 38.1
Date Start - Finish: 9/14/2021 - 9/16/2021
H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 4"/4.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: (Top 12") Gray/dark gray, ASPHALT.	1		1'	ASPHALT	71.7'
								S-1: (Bottom 12") Gray/tan, fine to coarse SAND and GRAVEL, trace Silt.	2			FILL	
5		S-2	4-6	Grab				S-2: Brown, fine to coarse SAND and GRAVEL, little Silt.	3		7'		65.7'
10		S-3	8-8.8	9	6	39 100/3"	R	S-3: Very dense, brown to dark brown, fine to coarse SAND and GRAVEL, some Silt.	4				
		S-4	13-13	0	0	100/0"	R	S-4: No recovery.	5				
15													
20		S-5	18-19.3	15	14	100 48 100/3"	R	S-5: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.				GLACIAL TILL	
25		S-6	23-23.1	1	1	100/1"	R	S-6: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
30		S-7	28-28.3	3	2	100/3"	R	S-7: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
35		S-8	33-33.3	3	2	100/3"	R	S-8: Hard, gray with brown, Silty CLAY and GRAVEL, some fine to coarse Sand.					
											38'		34.7'
		S-9	38-38.1	1	1	100/1"	R	S-9: Very dense, gray with dark brown, GRAVEL.	6		38.1'	POSS. ROCK	34.6'
40								Auger refusal at 38.1 feet.					

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 9/14/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Cobbles observed within the borehole at approximately 4 feet bgs.
4. Boring was advanced using cased drilling methods to a depth of approximately 8 feet bgs; boring advanced open hole thereafter.
5. Drill cuttings, consisting of brown GRAVEL, some fine to medium Sand, some Silt, were noted in tip of split spoon.
6. Upon completion, borehole backfilled with soil cuttings and asphalt cold patch to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-1

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo
Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash
Boring Location: N2969078.913 - E742715.401
Ground Surface Elev. (ft.): 49.9
Final Boring Depth (ft.): 20.7
Date Start - Finish: 8/27/2021 - 8/27/2021
H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	16	5 6 7 9	13	S-1: Medium dense, brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1			FILL	
5		S-2	4-6	24	24	47 36 30 30	66	S-2: (Top 12") Very dense, brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics. S-2: (Bottom 12") Tan/brown, fine to coarse SAND and GRAVEL, some Silt.	2		5'		44.9'
10		S-3	9-11	24	11	30 29 29 75	58	S-3: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.	3			GLACIAL TILL	
15		S-4	14-16	24		9 18 21 23	39	S-4: Dense, tan/brown, fine to medium SAND and GRAVEL, some Silt.					
20		S-5	19-20.7	8	5	23 50/2"	R	S-5: Very dense, brown/dark brown, fine to coarse SAND and GRAVEL, little Silt.	4&5		20.7'		29.2'
25								Auger refusal at 20.7 feet.					
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Grinding and color change observed (black to tan/brown) at 5 feet below ground surface (bgs).
3. A large cobble was encountered at approximately 11 feet bgs.
4. Driller indicated spoon refusal due to cobble or boulder.
5. Upon completion, the borehole was backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-2

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

609204_HD(BORING).DWG Plotted on Dec-25 2:02 PM

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TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-3
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969162.036 - E742794.063
Ground Surface Elev. (ft.): 48.9
Final Boring Depth (ft.): 25
Date Start - Finish: 8/30/2021 - 9/3/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	14	4 8 5 7	13	S-1: Medium dense, dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1				
5		S-2	4-6	24	7	17 30 13 7	43	S-2: Dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.	2 3			FILL	
											7.5'		41.4'
10		S-3	9-11	24	12	13 29 25 60	54	S-3: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.					
15		S-4	14-16	24	10	32 35 47 70	82	S-4: Very dense, tan/brown/dark brown, fine to coarse SAND and GRAVEL, some Silt.				GLACIAL TILL	
20		S-5	18-20	24	14	12 44 49 62	93	S-5: Very dense, tan/brown, medium to fine SAND and GRAVEL, little Silt.	4				
25		S-6	24-25	12	3	54 100/6"	R	S-6: Very dense, gray/brown, medium to fine SAND and GRAVEL.	5		25'		23.9'
								Auger refusal at 25 feet.					
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. A cobble was encountered at 3 feet below ground surface (bgs) to approximately 4 feet bgs.
3. Grinding and color change observed (black to tan/brown) at 4 feet bgs.
4. Drilling advanced to a depth of approximately 16 feet bgs on 8/30/2021. Due to night work scheduled for 8/31/2021, driller elected to pull casing and backfill the boring with cuttings. Boring was continued on 9/3/2021 by advancing casing, through the backfilled borehole, to a depth of 18 feet, the next sample elevation.
5. Upon completion, the borehole was backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-3

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-4
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Chris Knight
Logged By: A. Lupo

Type of Rig: Truck
Rig Model: Volvo B-53
Drilling Method: Drive & Wash

Boring Location: N2969234.363 - E742861.413
Ground Surface Elev. (ft.): 46.6
Final Boring Depth (ft.): 21
Date Start - Finish: 9/2/2021 - 9/2/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 4"/4.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	16	5 6 9 7	15	S-1: Medium dense, dark brown with black, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1				
5		S-2	4-6	24	21	40 30 30 26	60	S-2: Very dense, brown, fine to medium SAND, some Gravel, little Silt.				FILL	
									2		7'		39.6'
10		S-3	9-11	24	7	10 27 25 24	52	S-3: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silt.					
15		S-4	14-16	24	8	20 36 28 26	64	S-4: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silty Clay.				GLACIAL TILL	
20		S-5	19-21	24	16	17 47 61 39	R	S-5: Very dense, brown/gray, fine to medium SAND and GRAVEL, some Silty Clay.			21'		25.6'
								Auger refusal at 21 feet.					
25													
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Slight drill chatter and change in wash color from brown to gray observed at approximately 7 feet bgs.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-4

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/21/2024

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	7	199
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W1-6
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Willy
Logged By: A. Lupo

Type of Rig: Truck
Rig Model: Vacuum
Drilling Method: N/A

Boring Location: N2969197.97 - E742729.36
Ground Surface Elev. (ft.): 70.1
Final Boring Depth (ft.): 6
Date Start - Finish: 9/14/2021 - 9/14/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Uncased
I.D/O.D.(in): N/A
Hammer Weight (lb.): N/A
Hammer Fall (in.): N/A
Other: N/A

Sampler Type: N/A
I.D./O.D. (in.): N/A
Sampler Hmr Wt (lb): N/A
Sampler Hmr Fall (in): N/A
Other: N/A

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: (Top 9") Gray/dark gray, ASPHALT.	1		1'	ASPHALT	69.1'
								S-1: (Bottom 15") Gray/tan, fine to coarse SAND and GRAVEL, trace Silt.	2				
		S-2	3-4	Grab				S-2: Brown, SAND and GRAVEL, little Silt.				FILL	
5		S-3	4-6	Grab				S-3: Brown/dark brown, SAND and GRAVEL, little Silt, trace (-) Organics.			6'		64.1'
								Auger refusal at 6 feet.	3				
10													
15													
20													
25													
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 9/14/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Upon completion, borehole backfilled with soil cuttings and asphalt cold patch to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-6

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969521.778 - E745569.809
Ground Surface Elev. (ft.): 29.5
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/24/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Dark brown, fine to coarse SAND and GRAVEL, trace Silt, trace (-) Organics.	1 2 3				
5		S-2	4-6	Grab				S-2: Tan/brown/dark brown/black, fine to medium SAND, some Gravel, trace Silt, trace Organics.				FILL	
10		S-3	9-11	24	16	1 1 1/12"	R	S-3: Very loose, tan/dark brown, fine to medium SAND, little Gravel, trace Silt, trace (-) Organics.			12.5'		17.0'
15		S-4	14-16	24	20	10 18 21 24	39	S-4: Hard, tan/brown/gray, Clayey SILT, trace fine Sand.				CLAYEY SILT	
20		S-5	19-21	24	18	6 8 8 10	16	S-5: Very stiff, tan/brown, Clayey SILT.			22.5'		7.0'
25		S-6	24-26	24	24	3 3 12 11	15	S-6: Stiff, tan/brown/gray, Silty CLAY, little fine Sand.					
30		S-7	29-31	24	24	14 9 6 6	15	S-7: Stiff, tan/brown/gray, Silty CLAY, little fine Sand, trace Gravel.				SILTY CLAY	
35		S-8	34-36	24	24	WOR/24"		S-8: Very soft, gray, Silty CLAY.	4		36'		-6.5'
40								Auger refusal at 36 feet.					

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 21 feet bgs. Boring advanced open hole thereafter.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-2

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174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	8	199
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-3
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969519.156 - E745839.108
Ground Surface Elev. (ft.): 28.1
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/23/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Dark brown, SAND and GRAVEL, trace Silt, trace Organics, dry.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to medium SAND, little Gravel, little Silt, trace Organics, dry.				FILL	
											7.5'		20.6'
10		S-3	9-11	24	19	3 1 3 6	4	S-3: Soft, brown/dark brown/black, Clayey SILT, little Gravel, trace fine Sand, trace (-) Organics, moist.	4			CLAYEY SILT	
15		S-4	14-16	24	22	5 9 14 16	23	S-4: Very stiff, tan/gray, Clayey SILT, wet.			17.5'		10.6'
20		S-5	19-21	24	24	3 5 5 6	10	S-5: Stiff, tan/gray, Silty CLAY, wet.					
25		S-6	24-26	24	24	WOR WOR 3 3	3	S-6: Soft, gray, CLAY & SILT, wet.				CLAY AND SILT	
30		S-7	29-31	24	24	WOR/24"		S-7: Very soft, gray, CLAY & SILT, wet.					
35		S-8	34-36	24	18	WOR/24"		S-8: Very soft, gray, CLAY & SILT, wet.	5		36'		-7.9'
								Auger refusal at 36 feet.					
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
4. Change in wash color from tan to gray at approximately 12 feet bgs.
5. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-3

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-4
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969592.5426 - E745636.2267
Ground Surface Elev. (ft.): 22.1
Final Boring Depth (ft.): 31
Date Start - Finish: 8/31/2021 - 9/1/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: Brown/dark brown, fine to coarse SAND and GRAVEL, little Silt, trace (+) Organics.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown,dark brown, fine to coarse SAND and GRAVEL, some Silt, trace (-) Organics.	4			FILL	
											7.5'		14.6'
10		S-3	9-11	24	14	4 6 8 10	14	S-3: Stiff, tan/brown, Clayey SILT.				CLAYEY SILT	
15		S-4	14-16	24	14	3 3 6 5	9	S-4: Stiff, tan/brown/gray, Silty CLAY.			12.5'		9.6'
20		S-5	19-21	24	19	3 5 11 12	16	S-5: Very stiff, tan/brown/gray, Silty CLAY.				SILTY CLAY	
25		U-6	24-26	24	24	Push/24"	R	U-6: Gray, Silty CLAY.					
30		U-7	29-31	24	24	Push/24"	R	U-7: Gray, Silty CLAY.			31'		-8.9'
								Auger refusal at 31 feet.	5				
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 5.5 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
4. Grinding and color change observed (dark brown to tan) at 6 to 7 feet bgs.
5. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoiland bedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandundertheconditionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-4

174493.00 BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/21/2024

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TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W3-5
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969525.978 - E745474.021
Ground Surface Elev. (ft.): 30.5
Final Boring Depth (ft.): 31
Date Start - Finish: 8/24/2021 - 8/24/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	Grab				S-1: Black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, moist.	1 2 3				
5		S-2	4-6	Grab				S-2: Black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, moist.	4 5			FILL	
10		S-3	9-11	24	3	3 3 12 10	15	S-3: Medium dense, gray, fine to medium SAND, some Gravel, little Silt, trace (-) Organics.			12.5'		18.0'
15		S-4	14-16	24	16	7 12 17 22	29	S-4: Very stiff, tan/brown/gray, Clayey SILT, trace fine Sand.					
20		S-5	19-21	24	20	7 8 15 12	23	S-5: Very stiff, tan/brown/gray, Silty CLAY, trace fine Sand.				SILTY CLAY	
25		S-6	24-26	24	24	8 6 10 11	16	S-6: (Top 12") Stiff, tan/brown/gray, Silty CLAY, trace fine Sand. S-6: (Bottom 12") Tan/brown/gray, Silty CLAY.			28'		2.5'
30		S-7	29-31	24	41	14 17 20 24	37	S-7: Dense, tan/brown, fine SAND, some Silt.			31'	SAND	-0.5'
35								Auger refusal at 31 feet.	6				
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 16 feet bgs. Boring advanced open hole thereafter.
4. Grinding observed at 5 feet bgs.
5. Color change observed at 7 feet bgs from tan to dark gray.
6. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-5

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W4-1
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Mientkiewicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Soil Scout
Drilling Method: Drive & Wash

Boring Location: N2969527.189 - E743972.135
Ground Surface Elev. (ft.): 41.4
Final Boring Depth (ft.): 36
Date Start - Finish: 8/25/2021 - 8/25/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	1-3	Grab				S-1: Brown/dark brown, fine to coarse SAND and GRAVEL, trace Silt, trace (-) Organics, dry.	1 2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to coarse SAND, some Gravel, trace Silt, dry.				FILL	
10		S-3	9-11	24	6	7 5 7 10	12	S-3: Medium dense, brown/dark brown, fine to medium SAND, some Silt, little Gravel, trace (-) Organics, moist.			12.5'		28.9'
15		S-4	14-16	24	4	24 32 31 42	63	S-4: Very dense, brown/dark brown, fine to coarse SAND and GRAVEL, some Silt, wet.					
20		S-5	19-21	24	12	24 16 21 17	37	S-5: Dense, tan/brown/dark brown/black, fine to medium SAND, some Gravel, trace Silt, wet.				SAND	
25		S-6	24-26	24	14	16 15 20 24	35	S-6: Dense, tan/brown, fine to medium SAND, little Silt, wet.					
30		S-7	29-31	24	16	10 15 16 19	31	S-7: Dense, tan/brown/dark brown/red, fine to medium SAND, little Silt, wet.	4		32.5'		8.9'
35		S-8	34-36	24	24	3 4 6 6	10	S-8: Stiff, gray, Silty CLAY, wet.			36'	CLAY	5.4'
40								Auger refusal at 36 feet.					

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/23/2021. Soil excavated was visually classified based on grab samples from the vacuum excavation and sidewalls of the boring. The boring was backfilled with the excavated soil upon completion of the vacuum excavation.
3. Boring was advanced using cased drilling methods to a depth of approximately 9 feet bgs. Boring advanced open hole thereafter.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W4-1

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TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W5-2
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Micnkiecqicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Strata Star 5
Drilling Method: Drive & Wash

Boring Location: N2969505.436 - E747762.673
Ground Surface Elev. (ft.): 12.9
Final Boring Depth (ft.): 21
Date Start - Finish: 9/9/2021 - 9/9/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	8	4 4 4 4	8	S-1: Loose, brown to dark brown, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1 2		1'	TOPSOIL	11.9'
5		S-2	4-6	24	6	4 3 2 1	5	S-2: Loose, brown, fine to coarse SAND and GRAVEL, little Silt, trace (-) Roots, trace (-) Brick.			7'	FILL	5.9'
10		S-3	9-11	24	24	4 6 9 10	15	S-3: Stiff, brown with gray, Clayey SILT.					
15		S-4	14-16	24	24	1 2 3 4	5	S-4: Medium stiff, gray, Silty CLAY.				SILTY CLAY	
20		S-5	19-21	24	24	WOR/18" 3		S-4: Very soft, gray, Silty CLAY.			21'		-8.1'
25								Auger refusal at 21 feet.	3				
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring was advanced using cased drilling methods to a depth of approximately 9 feet bgs. Boring advanced open hole thereafter.
3. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W5-2

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Nitsch Engineering
Belmont Community Path
Belmont, Massachusetts

BORING NO.: W5-6
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Jim Micnkiecqicz
Logged By: A. Lupo

Type of Rig: ATV
Rig Model: Strata Star 5
Drilling Method: Drive & Wash

Boring Location: N2969503.426 - E748162.314
Ground Surface Elev. (ft.): 14.0
Final Boring Depth (ft.): 26
Date Start - Finish: 9/8/2021 - 9/8/2021

H. Datum: See Plan
V. Datum: NAVD88

Auger/Casing Type: Casing
I.D/O.D.(in): 2.625"/3.5"
Hammer Weight (lb.): 140 lbs.
Hammer Fall (in.): 30"
Other: Auto Hammer

Sampler Type: Split Spoon
I.D./O.D. (in.): 1.375"/2"
Sampler Hmr Wt (lb): 140 lbs
Sampler Hmr Fall (in): 30"
Other: Auto Hammer

Groundwater Depth (ft.)

Date	Time	Water Depth	Casing	Stab. Time
Not	measured			

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	Blows (per 6 in.)	SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S-1	0-2	24	12	4 4 22 7	26	S-1: Medium dense, brown, fine to coarse SAND and GRAVEL, little Silt, trace Organics.	1 2		1'	TOPSOIL	13.0'
5		S-2	4-6	24	4	5 3 1 1	4	S-2: Loose, brown, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics.			8'	FILL	6.0'
10		S-3	9-11	24	22	7 10 10 13	20	S-3: Very stiff, brown, Clayey SILT, trace fine Sand.	3				
15		S-4	14-16	24	24	2 2 4 4	6	S-4: Medium stiff, gray, Silty CLAY.				SILTY CLAY	
20		S-5	19-21	24	24	1 1 2 3	3	S-5: Soft, gray, Silty CLAY.					
25		S-6	24-26	24	24	WOR WOR 1 1	1	S-6: Very soft, gray, Silty CLAY.			26'		-12.0'
								Auger refusal at 26 feet.	4				
30													
35													
40													

REMARKS

1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_HD(BASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204_HD(Base2).dwg provided by Nitsch Engineering, dated 11/15/21.
2. Boring was advanced using cased drilling methods to a depth of approximately 11 feet bgs. Boring advanced open hole thereafter.
3. Change in wash color from brown to gray observed at approximately 8 feet bgs.
4. Upon completion, borehole backfilled with soil cuttings to approximate ground surface.

See Log Key for explanation of sampled description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W5-6

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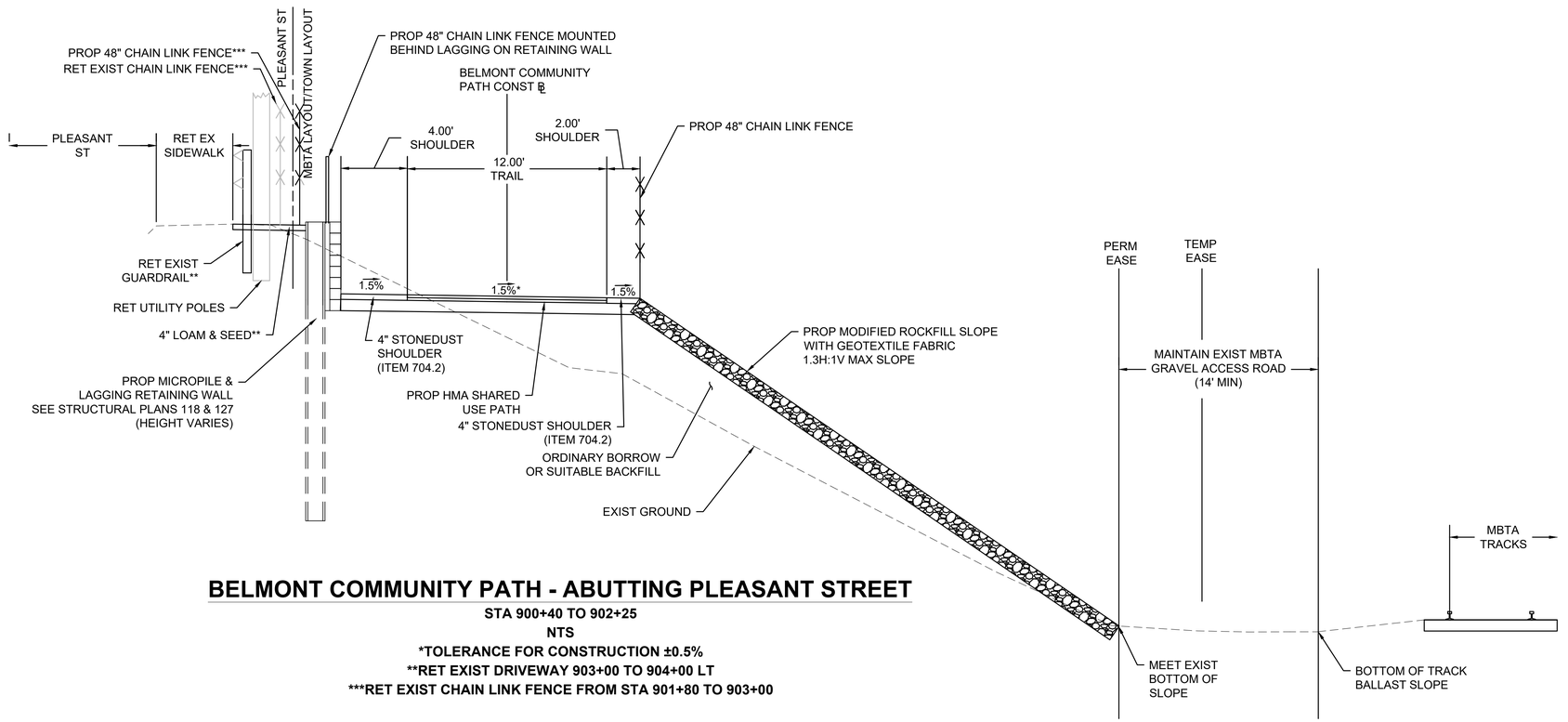
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

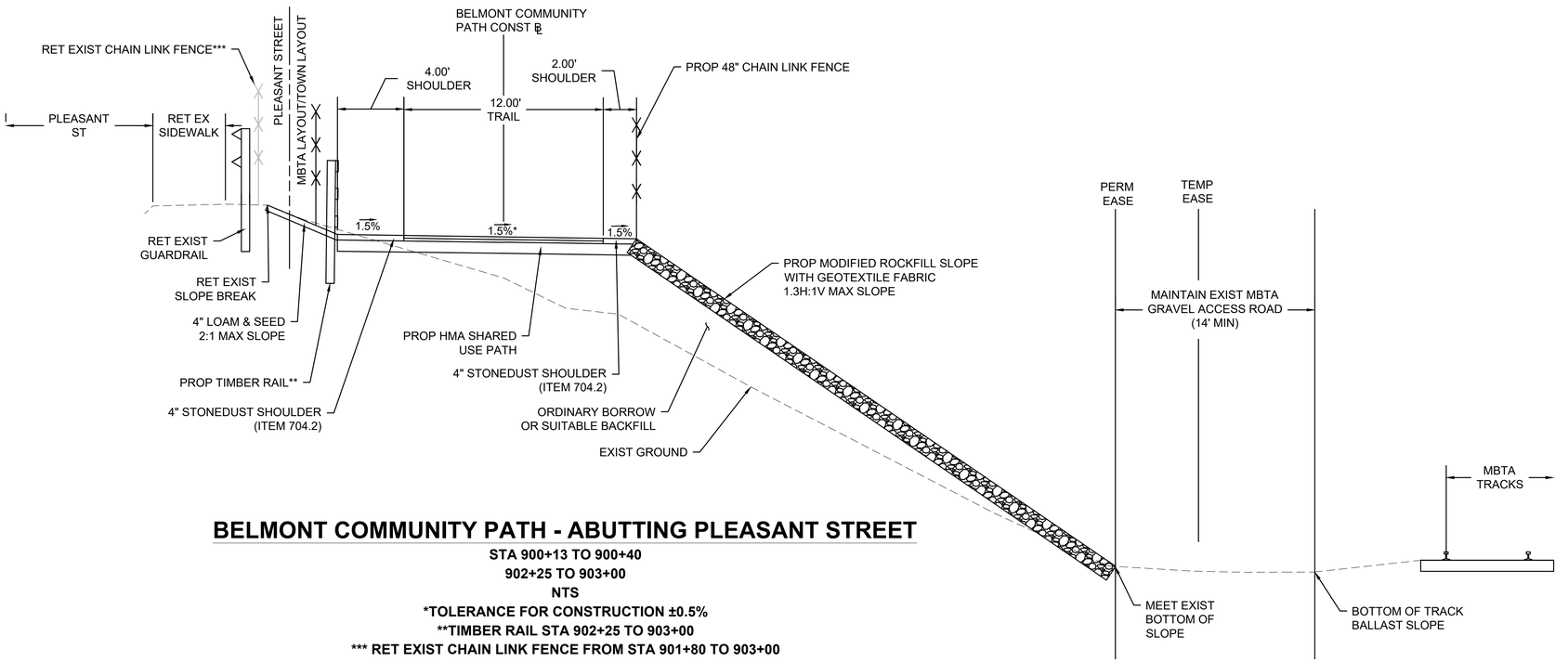
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	11	199
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 900+40 TO 902+25
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****RET EXIST DRIVEWAY 903+00 TO 904+00 LT**
*****RET EXIST CHAIN LINK FENCE FROM STA 901+80 TO 903+00**



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 900+13 TO 900+40
902+25 TO 903+00
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****TIMBER RAIL STA 902+25 TO 903+00**
***** RET EXIST CHAIN LINK FENCE FROM STA 901+80 TO 903+00**

PAVEMENT NOTES:

PROPOSED HMA SHARED USE PATH

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

SUBASE 8" GRAVEL BORROW, TYPE b*

PROPOSED HMA SIDEWALK

SURFACE: 1.25" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)

SUBASE 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE SIDEWALK/WALK/PCR (INCLUDING 7 CHANNING ROAD SPUR)

SURFACE: 4" CEMENT CONCRETE SIDEWALK (AIR ENTRAINED 4000 PSI, $\frac{3}{4}$", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 2.50" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAY/ISLAND

SURFACE: 6" CEMENT CONCRETE SIDEWALK (AIR ENTRAINED 4000 PSI, $\frac{3}{4}$", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED PAVEMENT MILLING & OVERLAY - FINAL SURFACE COURSE

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER PAVEMENT MILLING SURFACE

PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT OVER
INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

BASE: 4.00" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) OVER

SUBBASE: 4" DENSE GRADED CRUSHED STONE FOR SUBBASE OVER 8" GRAVEL BORROW, TYPE b*

*EXISTING GRAVEL BORROW TYPE MEETING CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE RETAINED FOR USE ON SITE AS PROVIDED IN THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES.

NOTES:
1. EMBANKMENT AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
2. ALL HOT MIX ASPHALT SHALL BE IN ACCORDANCE WITH SECTION 450 HOT MIX ASPHALT PAVEMENT AND SECTION M3 ASPHALTIC MATERIALS LATEST EDITION.

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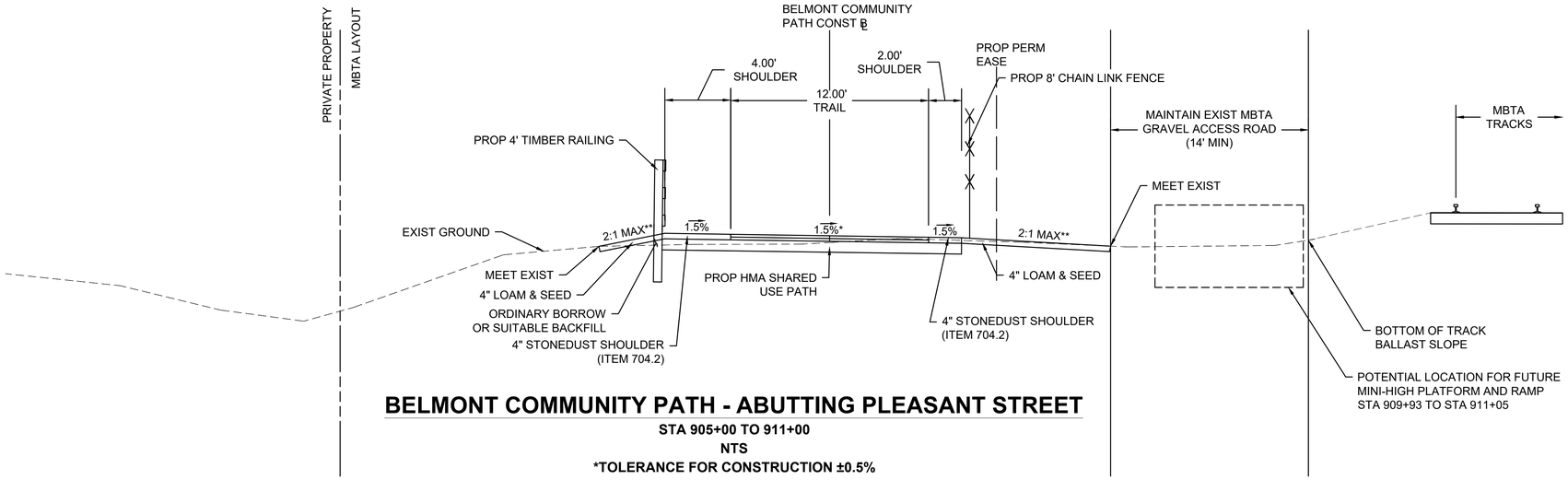
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

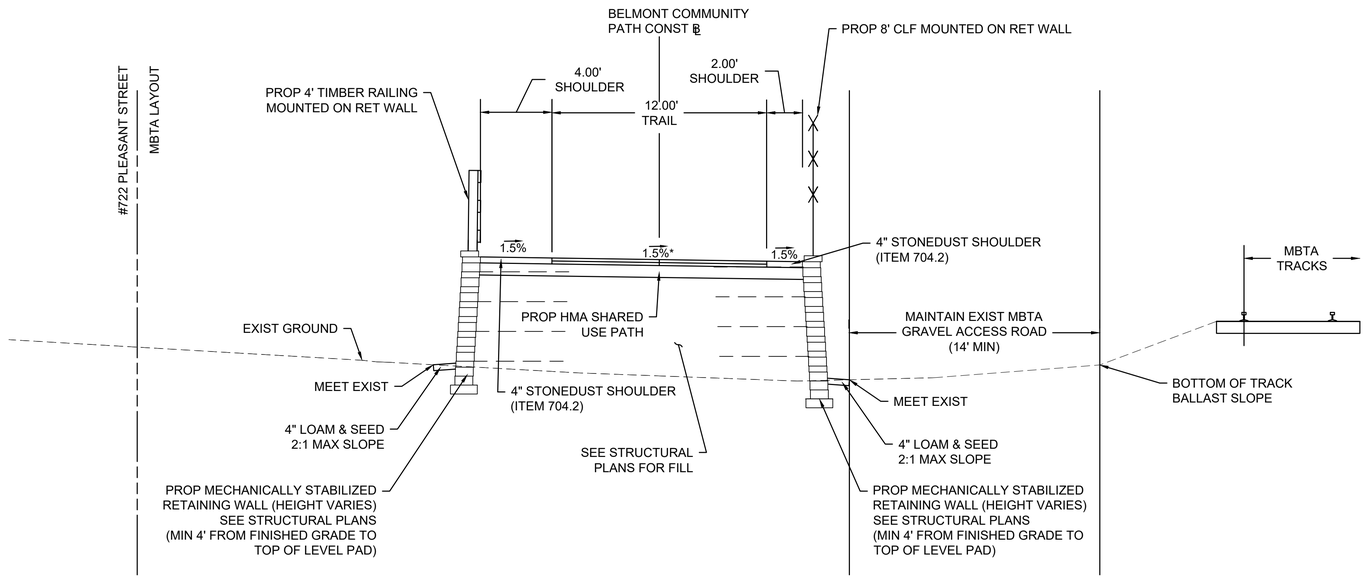
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	12	199
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 905+00 TO 911+00
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 903+00 TO 905+00**
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****WALL ON LT BEGINS STA 903+25**

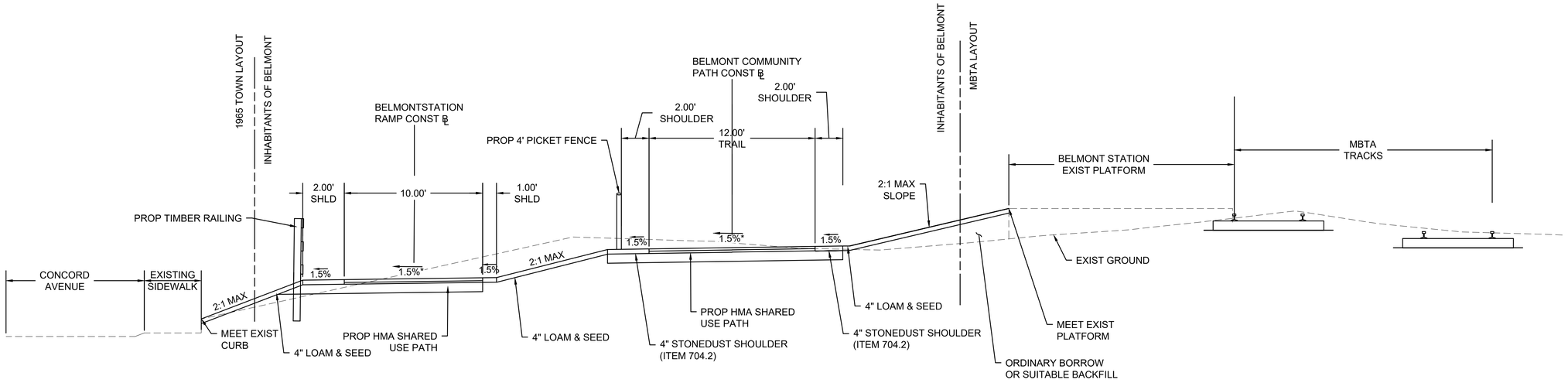
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:18 PM

609204_HD(TYPSECT).DWG Plotted on Dec-25 2:18 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

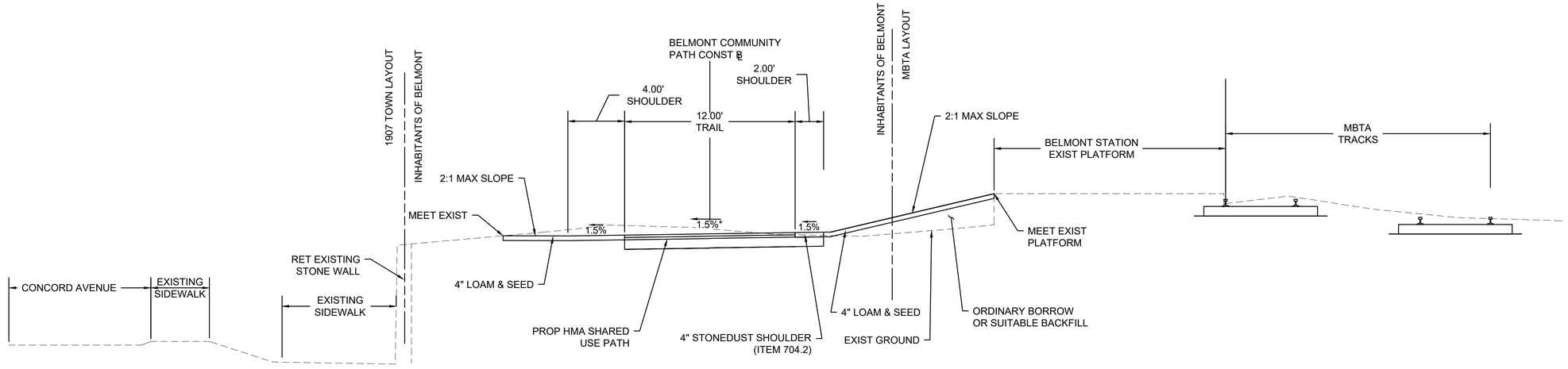
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	13	199
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - BELMONT STATION

STA 912+50 TO 914+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - BELMONT STATION

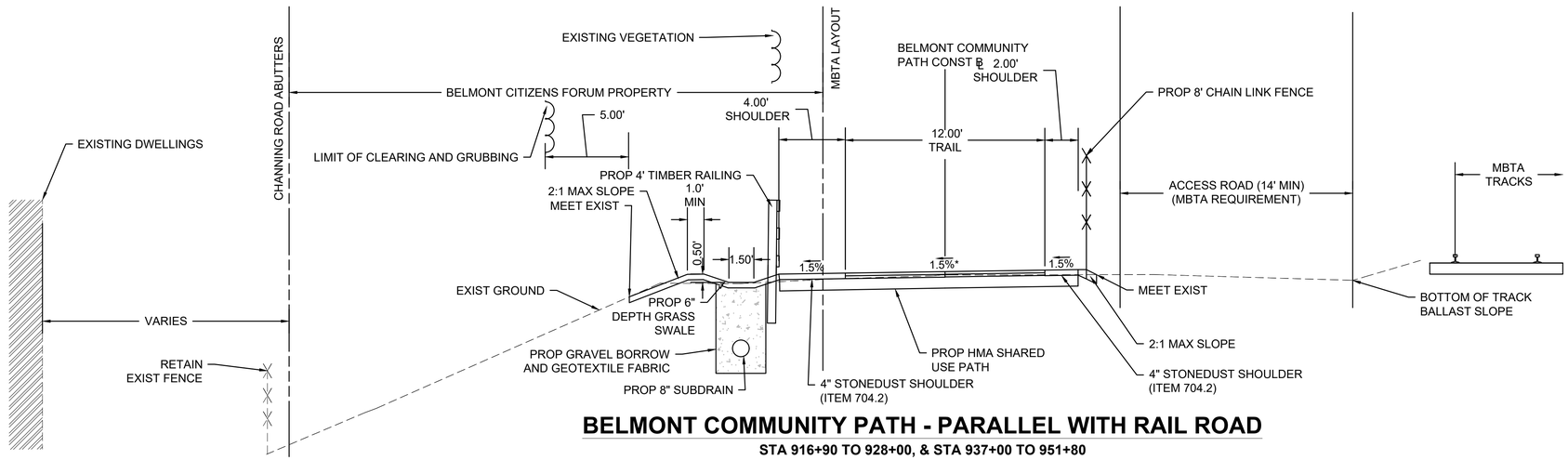
STA 911+00 TO 912+50
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:19 PM
609204_HD(TYPSECT).DWG Plotted on Dec-25 2:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

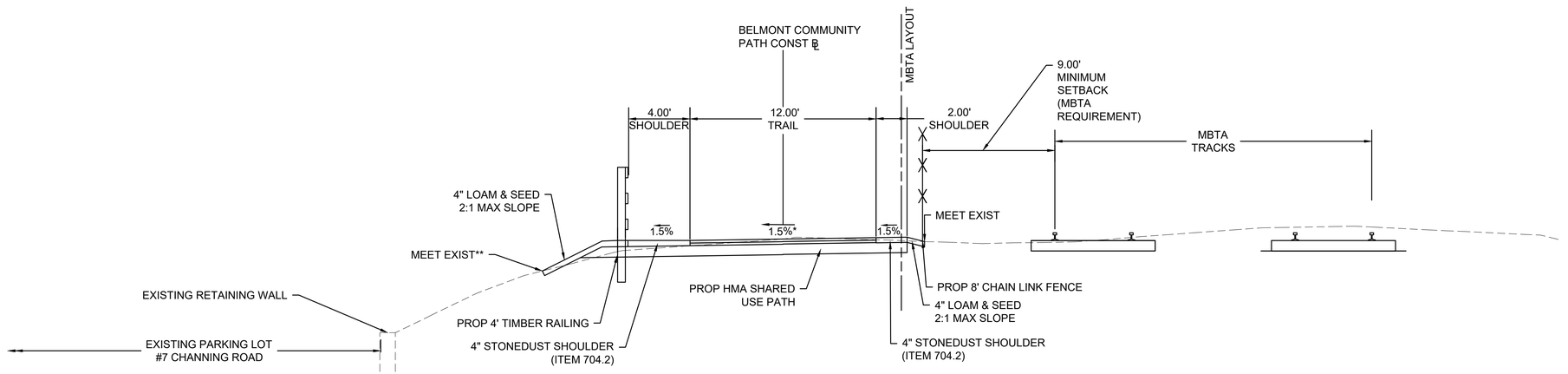
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	14	199
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



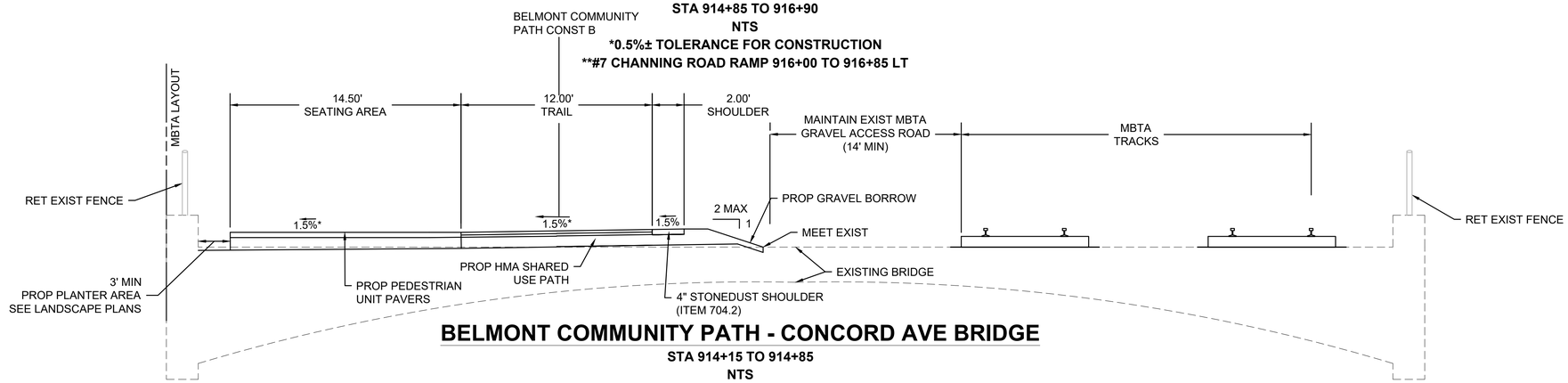
BELMONT COMMUNITY PATH - PARALLEL WITH RAIL ROAD

STA 916+90 TO 928+00, & STA 937+00 TO 951+80
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - #7 CHANNING ROAD

STA 914+85 TO 916+90
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**
****#7 CHANNING ROAD RAMP 916+00 TO 916+85 LT**



BELMONT COMMUNITY PATH - CONCORD AVE BRIDGE

STA 914+15 TO 914+85
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

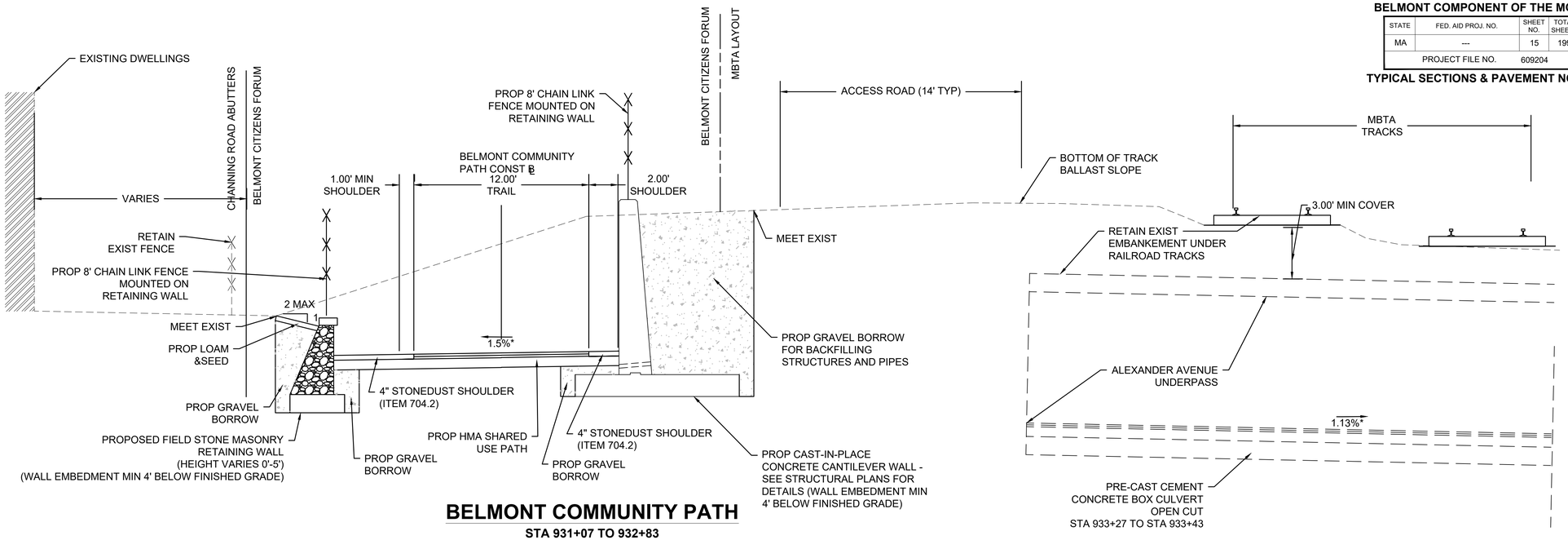
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:19 PM

609204_HD(TYPSECT).DWG Plotted on Dec-25 2:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

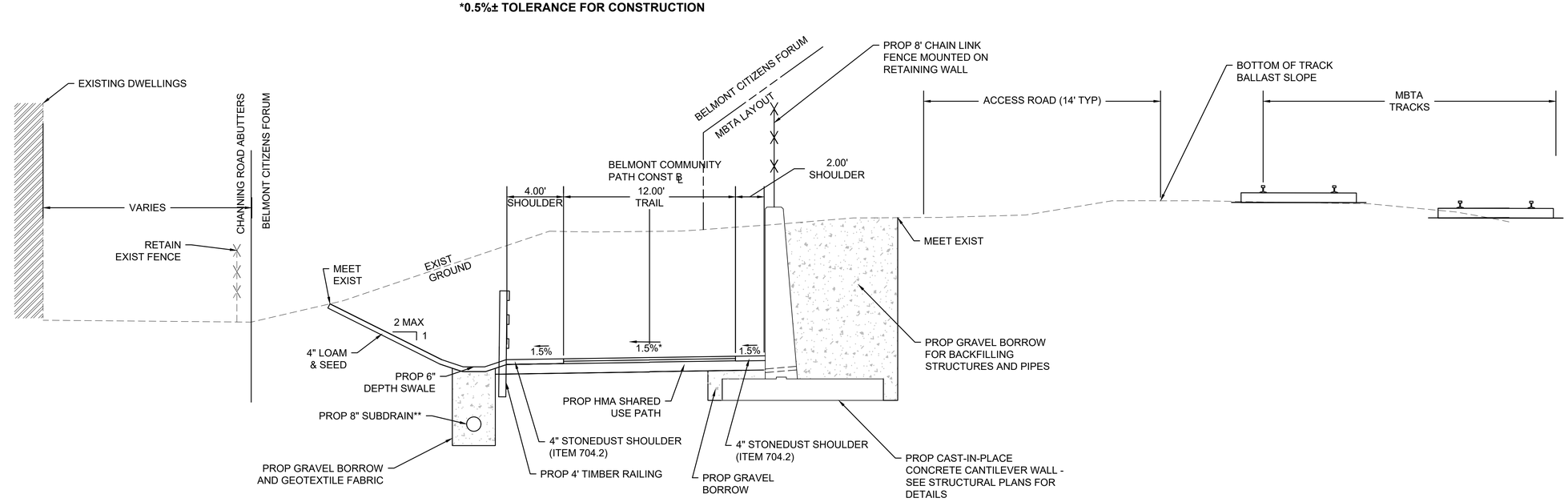
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	15	199
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH

STA 931+07 TO 932+83
STA 933+65 TO 935+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

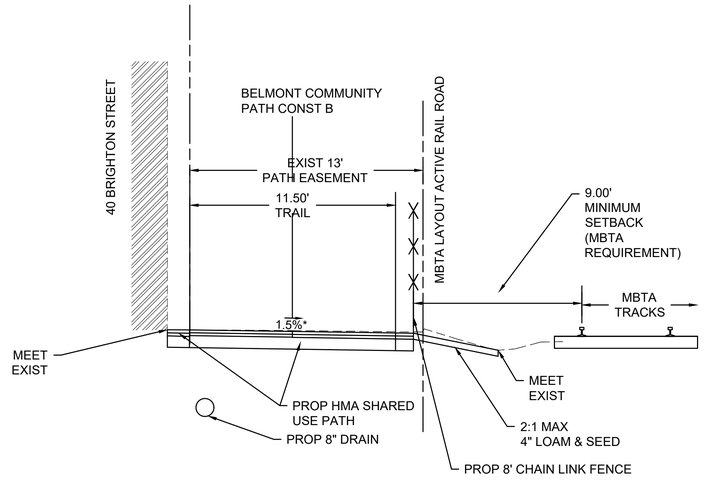


BELMONT COMMUNITY PATH

STA 928+00 TO 931+07
935+15 TO 937+50**
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**
****SUBDRAIN BEGINS STA 935+73**

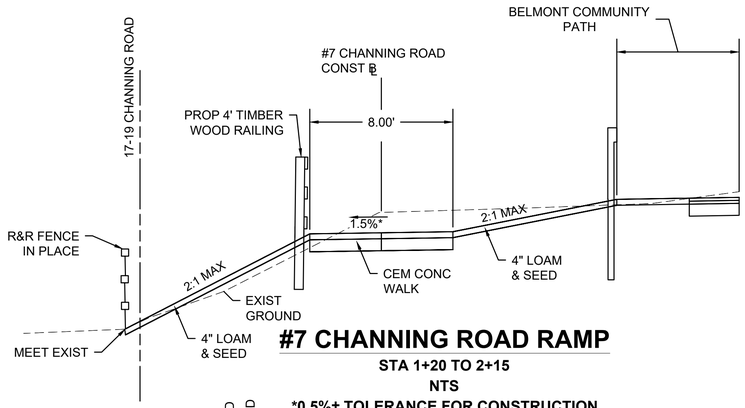
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:19 PM

609204_HD(TYPSECT).DWG Plotted on Dec-25 2:19 PM



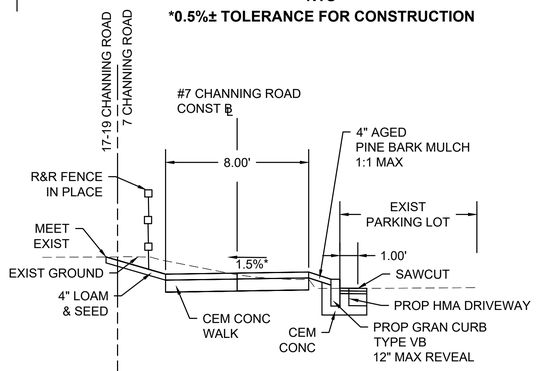
BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING BUILDING

STA 955+68.83 TO 956+56.17
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



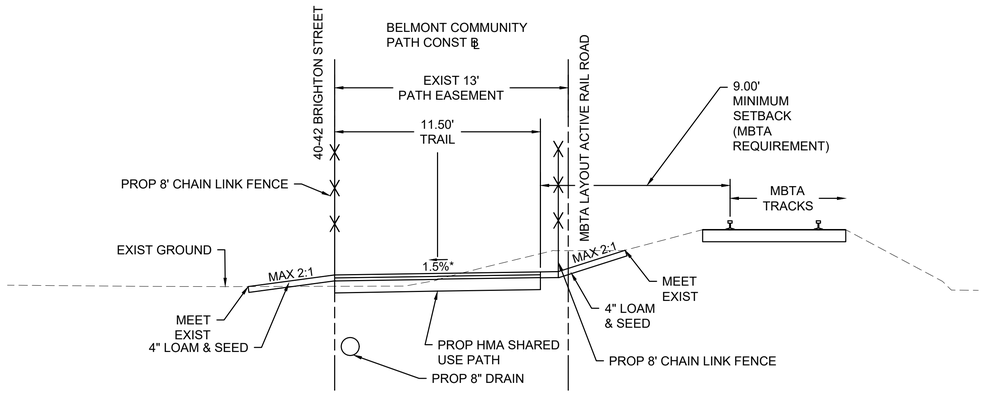
#7 CHANNING ROAD RAMP

STA 1+20 TO 2+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



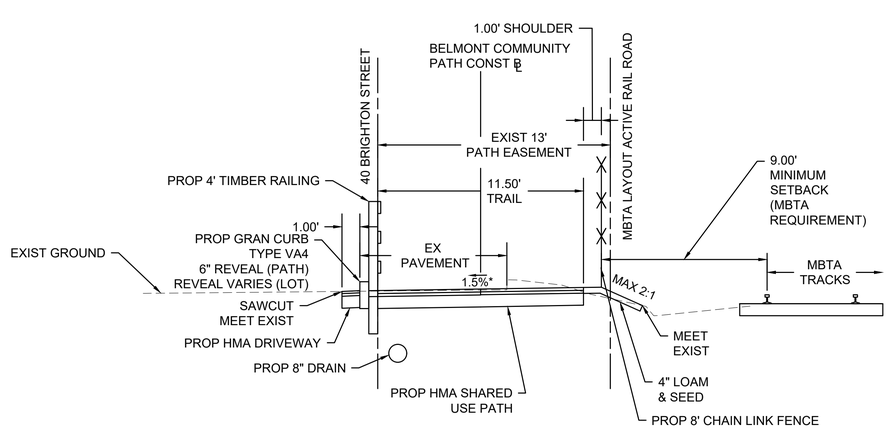
#7 CHANNING ROAD RAMP

STA 0+00 TO 1+20
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - 40 BRIGHTON STREET

STA 951+80 TO 955+69.68
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING PARKING

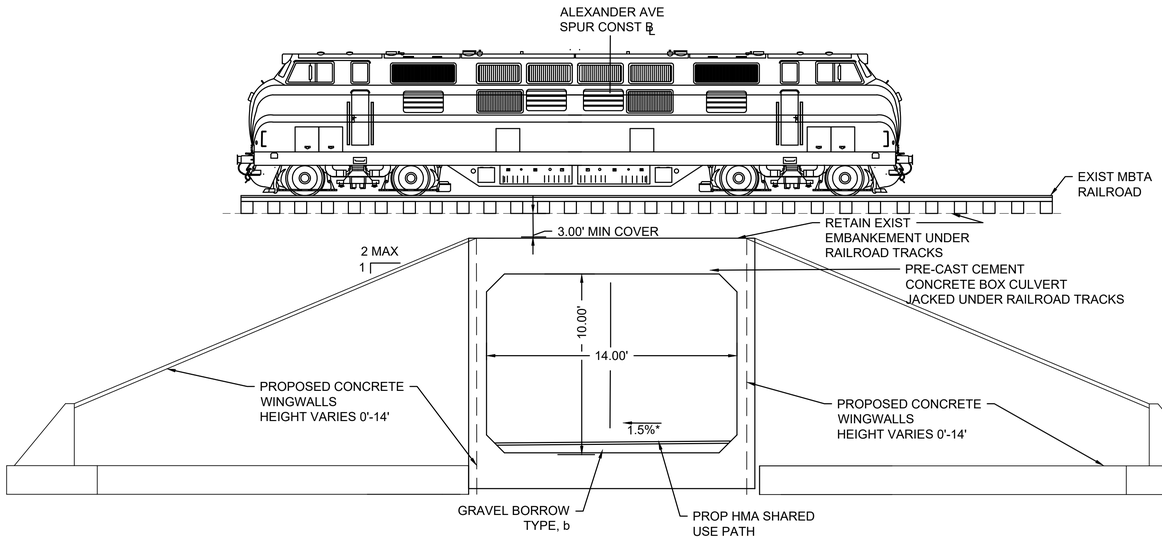
STA 956+56.17 TO 959+33
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:19 PM

609204_HD(TYPSECT).DWG Plotted on Dec-25 2:19 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	17	199
PROJECT FILE NO.	609204		

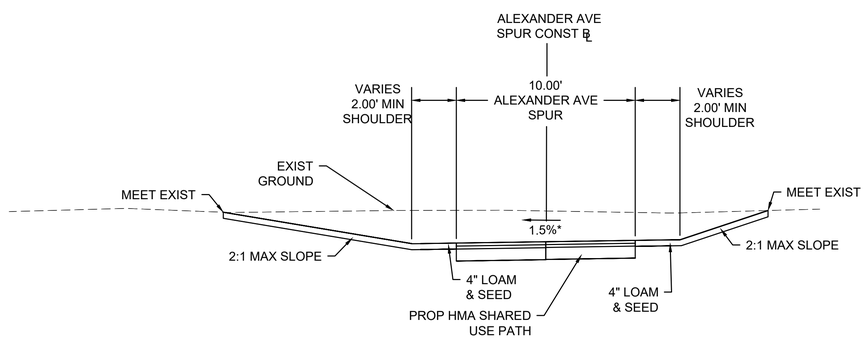
TYPICAL SECTIONS & PAVEMENT NOTES



ALEXANDER AVENUE SPUR - UNDERPASS SECTION

502+15 TO 502+85

***0.5%± TOLERANCE FOR CONSTRUCTION**

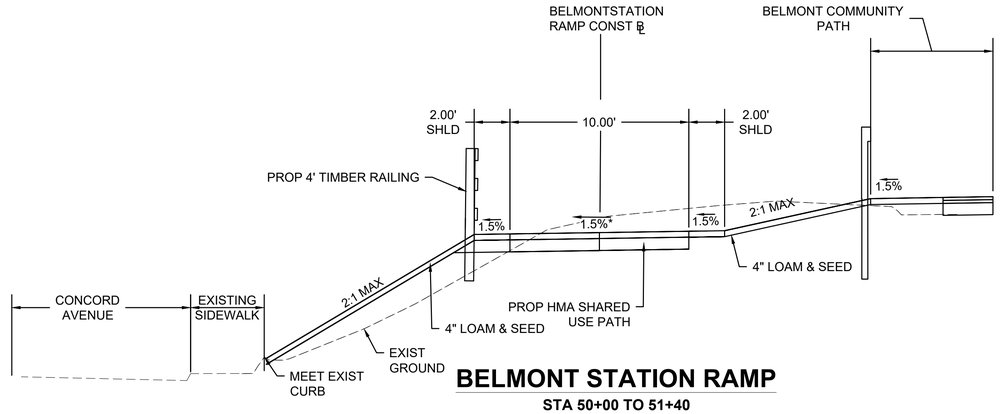


ALEXANDER AVENUE SPUR

501+25 TO 502+15

502+85 TO 504+05

***0.5%± TOLERANCE FOR CONSTRUCTION**

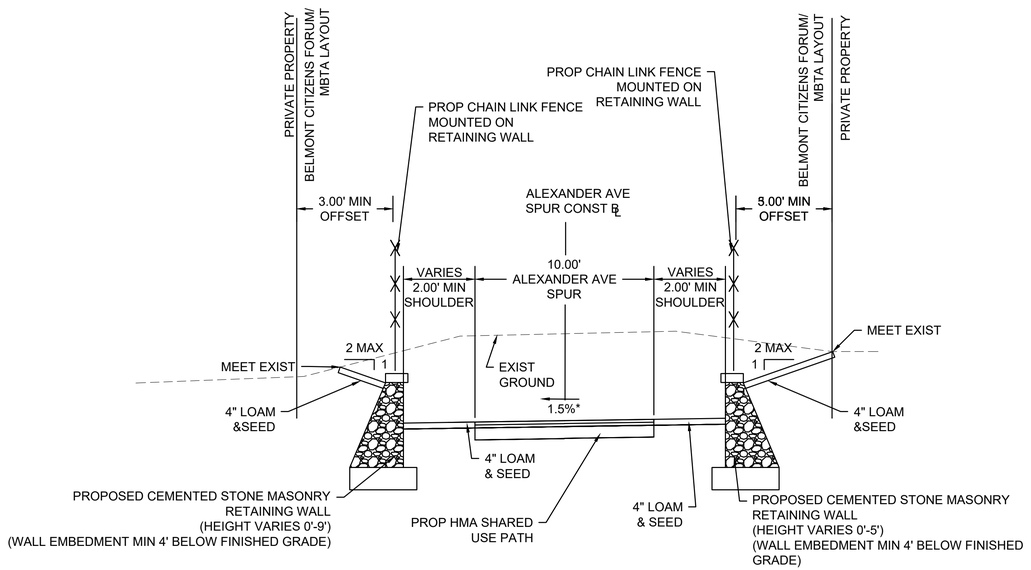


BELMONT STATION RAMP

STA 50+00 TO 51+40

NTS

***0.5%± TOLERANCE FOR CONSTRUCTION**



ALEXANDER AVENUE SPUR

501+25 TO 502+15

502+85 TO 504+05

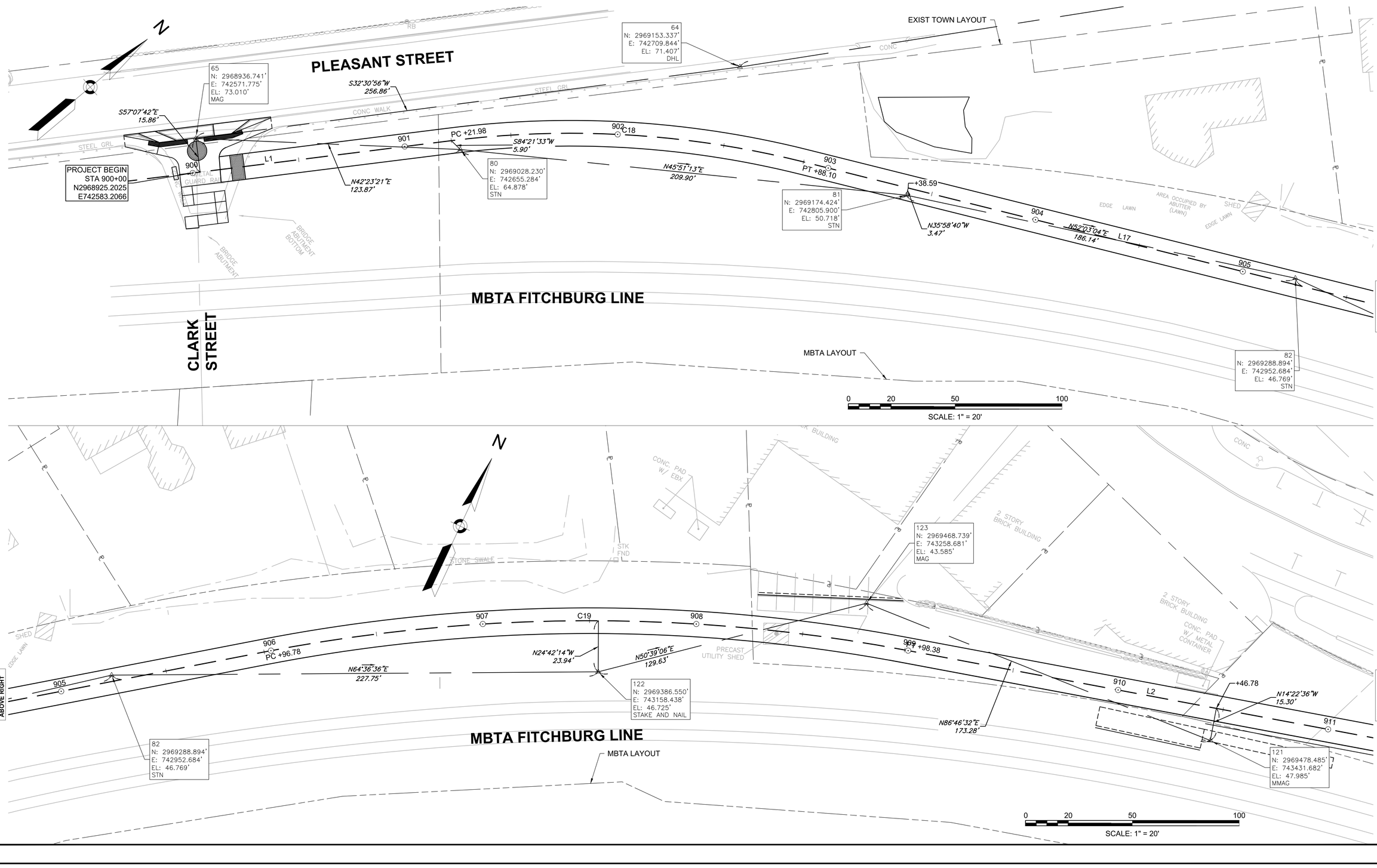
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 12/17/2025 2:19 PM
609204_HD(TYPSECT).DWG Plotted on Dec-25 2:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	18	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----
609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	19	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

CONTINUED ON SHEET NO. 18

CONCORD AVENUE

CHANNING ROAD

105
N: 2969726.601'
E: 743828.212'
EL: 32.115'
MDHL

S71°29'17"E 150.90'

110.53' S40°43'11"W

57
N: 2969642.839'
E: 743756.094'
EL: 30.916'
DHL

S21°59'17"E 54.56'

278.72' S55°45'11"W

TOWN LAYOUT

M/L

CONC. PAD W/ EBX

MW

BENCHMARK: FND COR OF GRN BLOCK EL=28.90'

S46°18'23"E 270.16'

PI +53.93

3 STORY BRICK/WOOD BUILDING

56
N: 2969569.748'
E: 743597.817'
EL: 39.981'
DHL

59
N: 2969550.558'
E: 743549.521'
EL: 33.733'
DHL

61
N: 2969553.785'
E: 743656.056'
EL: 44.376'
STN

58
N: 2969568.516'
E: 743900.919'
EL: 33.311'
DHL

1STORY BRICK BUILDING

BUILDING OVERHANG

CONC. WALL

108
N: 2969550.455'
E: 744033.046'
EL: 40.666'
STM

CONC. PAD

51.97' S68°19'47"W

PC +92.37

50+00

L25

PC +45.40

L24

C36

PT +56.44

S5°32'40"E 15.36'

913+68.78 BELMONT COMMUNITY PATH=
51+39.48 BELMONT STATION RAMP

PC +13.77

C25

PT +29.18

L27

PRC +41.29

PT +66.58

N68°22'57"W 11.48'

S31°13'39"E 26.21'

PC +70.30

913

BELMONT COMMUNITY PATH CONST

PT +18.19

L26

PRC +49.82

914

PT +82.17

915

PC +07.65

C4

L6

916

C5

PC +12.59

PT +32.50

L7

S10°16'42"E 26.92'

+76.93

912

PT +04.87

L3

PC +32.23

C1

COVER

+81.16

51+39.48

N14°22'36"W 15.30'

911

+46.78

S74°40'20"E 60.39'

S66°18'45"E 22.01'

STAKE AND NAIL

MBTA FITCHBURG LINE

BELMONT STATION

340+61

340

SOLAR PANELS

CONC. PAD W/ METAL CONTAINER

121
N: 2969478.485'
E: 743431.682'
EL: 47.985'
MMAG

CONC. RAMP

CONC. WALL

1STORY WD BUILDING

RRS

85
N: 2969551.024'
E: 743994.666'
EL: 40.828'
SPK SET

MBTA RR ℄

PC +14.05

337

C38

338

0 20 50 100
SCALE: 1" = 20'

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

PI +53.93

3 STORY BRICK/WOOD BUILDING

108
N: 2969550.455'
E: 744033.046'
EL: 40.666'
STM

CONC. WALL

WD SHED

109
N: 2969550.605'
E: 744083.430'
EL: 40.236'
STN

PC +97.06

PT +12.82

BELMONT CITIZENS FORUM

N88°43'19"E 121.77'

S89°59'20"E 107.18'

111
N: 2969553.300'
E: 744312.350'
EL: 38.396'
STN

WD SHED

BLDG

S36°02'01"E 21.52'

BELMONT CITIZENS FORUM

S89°24'35"E 194.78'

112
N: 2969551.293'
E: 744507.115'
EL: 37.286'
STN

S8°51'11"E 26.34'

CONTINUED ON SHEET NO. 20

PC +13.77

PT +29.18

L27

N68°22'57"W 11.48'

S31°13'39"E 26.21'

C25

C26

C6

L28

917

PT +08.25

PC +68.45

918

919

920

L14

921

922

L6

916

C5

PC +12.59

PT +32.50

L7

+50.00

110
N: 2969553.321'
E: 744205.170'
EL: 39.514'
STN

916+87.53 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD

85
N: 2969551.024'
E: 743994.666'
EL: 40.828'
SPK SET

MBTA RR ℄

PC +14.05

337

336

335

334

333

332

MBTA FITCHBURG LINE

0 20 50 100
SCALE: 1" = 20'

120
N: 2969525.264'
E: 744511.169'
EL: 37.608'
SPK

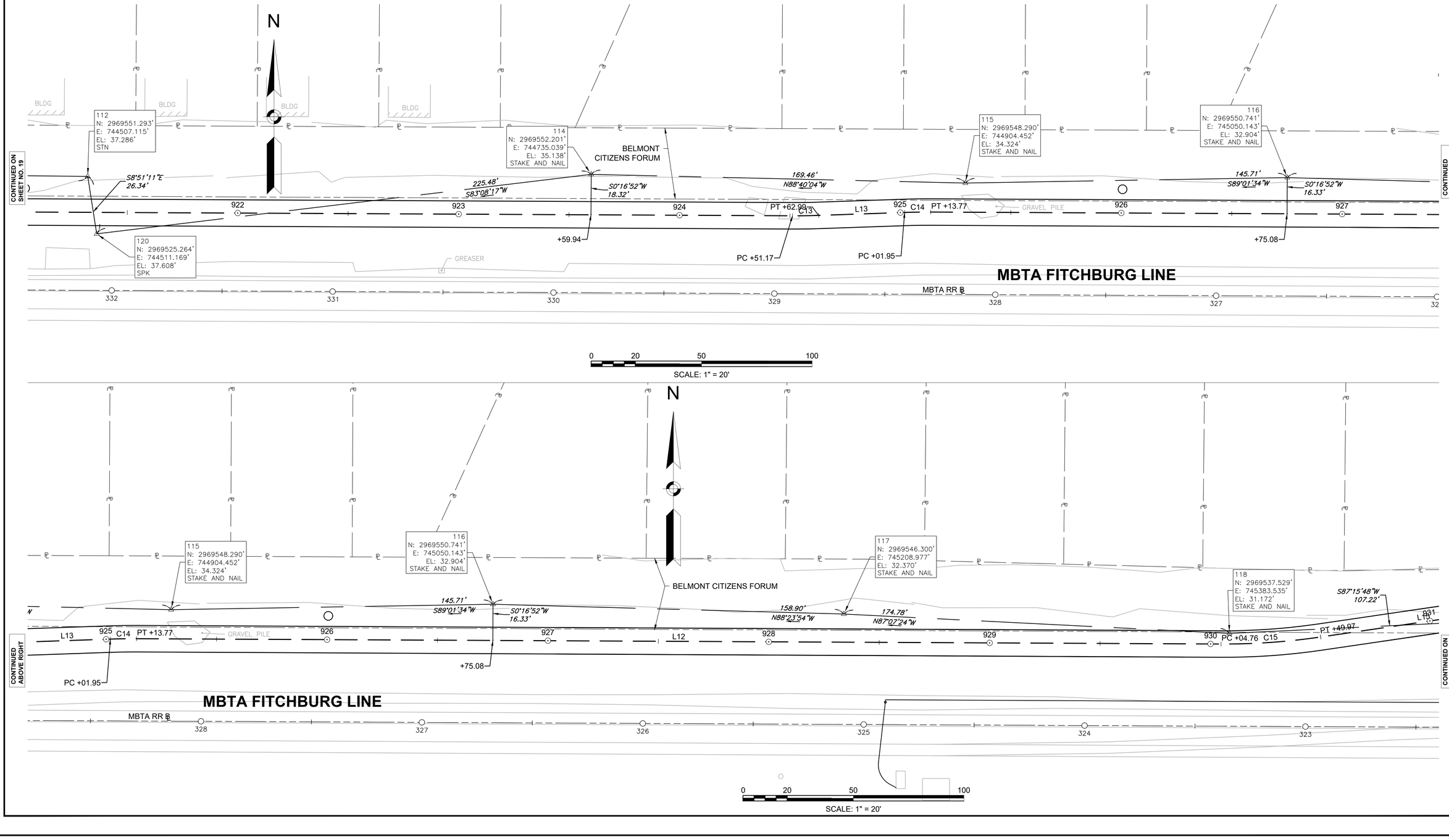
609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	20	199
PROJECT FILE NO.		609204	

BASELINE TIES PLAN



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD\(BASELINE_TIE).dwg ----
609204_HD\(BASELINE_TIE).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	21	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

MBTA RR

MBTA LAYOUT

BELMONT CITIZENS FORUM

MDHL SB FLUSH
MDHL SB FLUSH

102
N: 2969684.110'
E: 745535.304'
EL: 21.391'
MMAG SET GPS

N65°02'30"W
137.98'
TO MDHL SB

S71°28'20"W
22.40'

N87°22'26"W
832.25'
TO #5

N86°36'14"W
563.75'
TO #3

N83°48'32"E
299.82'

4
N: 2969716.444'
E: 745833.379'
EL: 18.778'
MMAG FND

163.17'
S85°52'48"W

IR(F)
IR CAP 0.2 DOWN

CNC NAIL WASHER

39.73'
S68°47'47"W

S55°20'10"W
33.63'

S46°37'42"W
47.33'

CPK
NAIL WASHER

IR 1D 0.1 DOWN

S74°24'40"E
70.07'

PC +12.36
PT +27.04
PC +34.68

S41°07'44"E
194.15'

L39
L32
C27
L33

301 PT 105.61

PC +77.76
PT +85.93

WD SHED

BENCHMARK: EDGE CONC
EL=29.96'

C22 L41 502
PI +93.80
PI +19.69

933 L20 PI +97.45

L18 934 C17
PC +26.61
PT +59.47
935 L16

S87°24'16"E
97.65'

68
N: 2969543.143'
E: 745913.866'
EL: 26.738'
STN

N86°22'56"E
153.62'

S43°

PC +09.99
PT +30.56

933+19.69 BELMONT COMMUNITY PATH=
502+04.30 ALEXANDER AVE SPUR

67
N: 2969547.565'
E: 745816.316'
EL: 27.108'
STN

S6°33'30"W
6.21'
+40.25

118
N: 2969537.529'
E: 745383.535'
EL: 31.172'
STAKE AND NAIL

S87°15'48"W
107.22'

PC +44.99 C16 PT +82.67 932 L19

931 L21

930 PC +04.76 C15 PT +49.97

119
N: 2969542.639'
E: 745490.631'
EL: 29.746'
STAKE AND NAIL

CONC PAD

104
N: 2969537.872'
E: 745663.005'
EL: 27.378'
HT SET

N88°24'47"W
172.44'

SWITCH

324 323 322 321 320 319 31

PRSW
N70°18'59"E
32.03'

RRSW

L34

INSET

TRACK
PT +18.43
L36
GRASS
C30 PC +55.74
VGC
PT +75.73
L37
PC +91.98 C31 505
L38 PT +07.25
PI +25.81

BUILDING
CLF
CONC. WALL
503
C28 PC +06.78
CONC. PADS
MW PT +32.95
VGC

PC +75.99
L35
GRASS
RUNNING TRACK
504 C29
VGC
VGC
GRASS
PT +18.43

CONTINUED ON INSET ABOVE

CONTINUED ON SHEET NO. 20

CONTINUED ON SHEET NO. 22

0 20 50 100
SCALE: 1" = 20'

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BASELINE_TIE).dwg ----

609204_HD(BASELINE_TIE).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	22	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N81°42'15"E
303.63'
TO MDHL SB

80.16'
S79°10'40"W

S87°06'17"W
873.90'
TO #2

S11°28'46"W
15.65'

CBND(F)
CBND FLUSH
MIPE 1/2D FLUSH
IP(F)

3
N: 2969683.049'
E: 746396.137'
EL: 14.064'
MMAG SET

N

68
N: 2969543.143'
E: 745913.866'
EL: 26.738'
STN

BELMONT CITIZENS FORUM

S87°24'16"E
97.65'

PT +59.47
935
L16
PC +72.907
936
PT +05.77
937
S88°39'41"E
225.77'
S0°16'52"W
7.37'
L21
938
N89°03'40"E
162.76'
939
PC +85.68
PC +55.53
C25
PT +55.482
C26
940
PT +05.64
S88°12'50"E
166.64'

CONTINUED ON SHEET NO. 21

CONTINUED BELOW LEFT

67
N: 2969547.565'
E: 745816.316'
EL: 27.108'
STN

S6°33'30"W
6.21'

+40.25

SWITCH

MBTA FITCHBURG LINE

318
317
316
315
314
313

69
N: 2969537.869'
E: 746139.578'
EL: 26.172'
STN

+66.97

70
N: 2969540.536'
E: 746302.315'
EL: 23.754'
HT

L44

MBTA RR ℄

IP(F)

0 20 50 100
SCALE: 1" = 20'

MBTA LAYOUT

MBTA LAYOUT

N

73
N: 2969542.338'
E: 746763.898'
EL: 20.511'
MSTN SET

BELMONT CITIZENS FORUM

IP(F)

S88°12'50"E
166.64'

S88°46'14"E
111.63'

N87°04'09"E
183.66'

S88°25'36"E
139.32'

S87°12'
123.4

C26
940
PT +05.64
941
942
943
944
945
L23
946
+91.40

CONTINUED ABOVE RIGHT

71
N: 2969535.342'
E: 746468.870'
EL: 23.595'
MSTN SET

72
N: 2969532.947'
E: 746580.479'
EL: 21.467'
MSTN SET

S14°12'05"E
10.80'

S0°16'52"W
18.90'

MBTA FITCHBURG LINE

MBTA RR ℄

313
312
311
310
309
308

74
N: 2969538.513'
E: 746903.167'
EL: 19.640'
MSTN SET

CONTINUED ON SHEET NO. 23

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD\(BASELINE_TIE).dwg ----

609204_HD\(BASELINE_TIE).DWG Plotted on ---- ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	23	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

CHANNING ROAD

S87°06'17"W 873.90' TO #3
S75°47'57"W 243.21' TO IR CAP
N33°22'41"W 14.17'
N13°27'25"E 40.95' TO DH
S60°27'50"W 105.84' TO IR CAP
N86°30'22"W 396.69' TO #1
N86°30'22"W 396.69' TO #2
N26°55'17"W 223.17' TO #100

2
N: 2969727.189'
E: 747268.918'
EL: 10.881'
MMAG SET

1
N: 2969703.015'
E: 747664.875'
EL: 12.395'
HT SET AKA 1

CHANNING ROAD

N

IP(F)

76
N: 2969533.219'
E: 747168.752'
EL: 17.796'
MSTN SET

77
N: 2969530.816'
E: 747343.962'
EL: 15.986'
MSTN SET

BELMONT CITIZENS FORUM

CONTINUED ON SHEET NO. 22

S87°12'24"E 123.42'
N89°42'36"E 142.32'
S89°12'52"E 175.23'

L23 946 947 948 949 950 C8 951 L8 C9 PC +44.48

CONTINUED BELOW LEFT

74
N: 2969538.513'
E: 746903.167'
EL: 19.640'
MSTN SET

75
N: 2969532.498'
E: 747026.438'
EL: 18.033'
MSTN SET

308 307 306 305 304 PC +62.84 303 PT +97.51 MBTA RR ℄ 302

MBTA FITCHBURG LINE

78
N: 2969528.085'
E: 747495.530'
EL: 14.886'
MSTN SET

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

N

JERSEY BARRIER RETAINING WALL
METAL CONTAINER
BOULDER
IP(F)
CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.
MET BIN
MET BIN
CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.
CONC PAD
BENCHMARK: TOP COR CNC EL=15.91'
PROP 40' SLIDING GATE +00 TO +40 LT

79
N: 2969524.914'
E: 747699.947'
EL: 17.771'
MSTN SET

S89°06'41"E 204.44'
N26°55'17"W 223.17' TO #1
S72°25'59"E 69.20'
S89°40'32"E 750.99'
N88°47'45"E 579.49'
S0°19'28"W 20.28'

CONTINUED ABOVE RIGHT

C8 951 L8 C9 PC +44.48 PT +79.00 952 953 +28.56 954 955 L9 956 957

PT +97.51 MBTA RR ℄ 302 MBTA LAYOUT 301 300 299 298 297

100
N: 2969504.028'
E: 747765.920'
EL: 13.191'
HT SET GPS

CONTINUED ON SHEET NO. 24

0 20 50 100
SCALE: 1" = 20'

MBTA LAYOUT

609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

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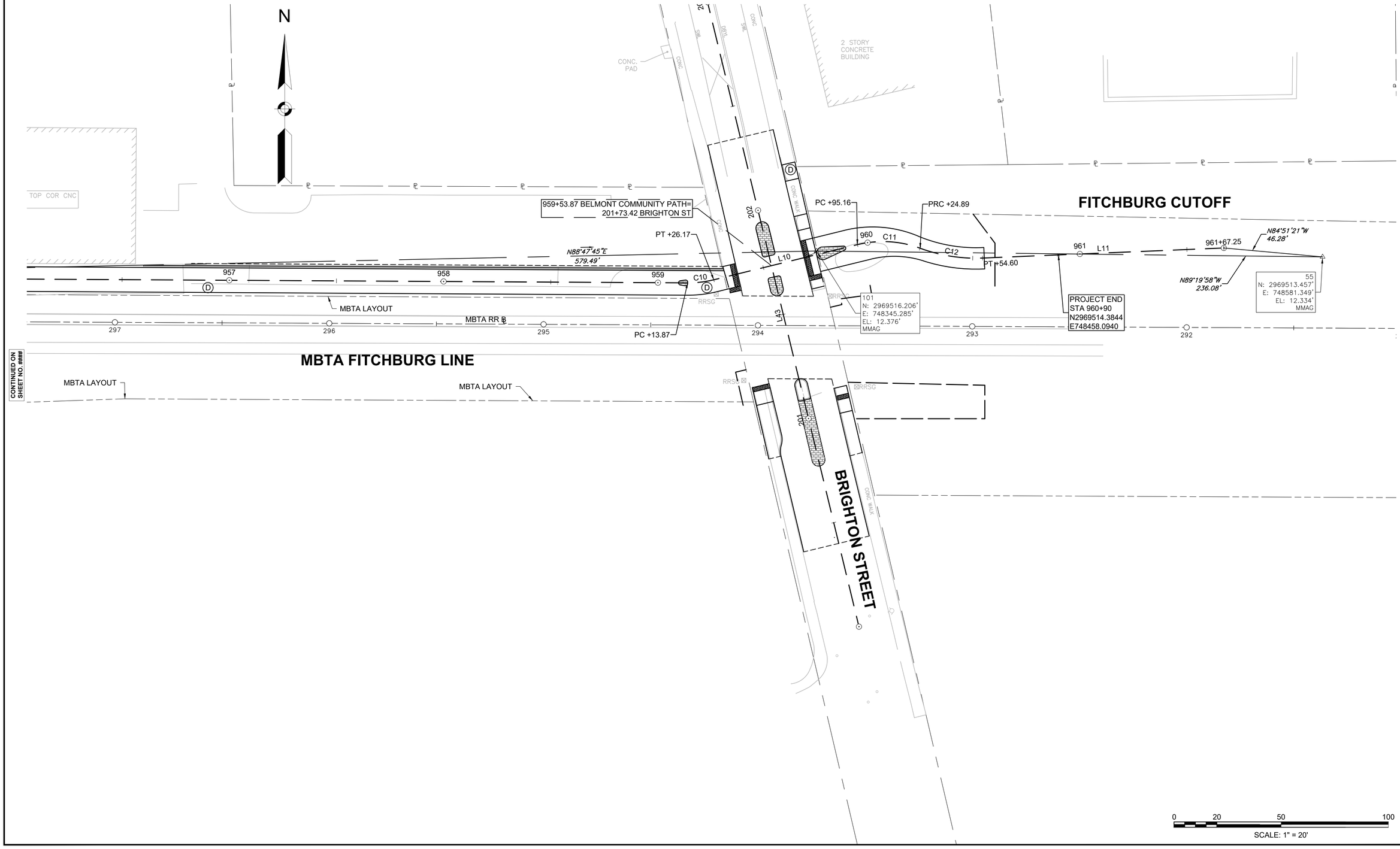
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	24	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN



CONTINUED ON SHEET NO. ####

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609204_HD(BASELINE_TIE).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	25	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

BELMONT COMMUNITY PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	899+50.00	2968883.2081	742556.0687		N32°52'18"E 171.98'	901+21.98	2969027.6503	742649.4111
C18	901+21.98	2969027.6503	742649.4111	R=450.00' Δ=21°09'03" L=166.12' T=84.01'		902+88.10	2969147.5697	742762.9997
L17	902+88.10	2969147.5697	742762.9997		N54°01'20"E 308.68'	905+96.78	2969328.9105	743012.7988
C19	905+96.78	2969328.9105	743012.7988	R=800.00' Δ=21°36'04" L=301.61' T=152.62'		908+98.38	2969456.4610	743284.1384
L2	908+98.38	2969456.4610	743284.1384		N75°37'24"E 233.85'	911+32.23	2969514.5236	743510.6606
C1	911+32.23	2969514.5236	743510.6606	R=625.00' Δ=6°39'33" L=72.64' T=36.36'		912+04.87	2969528.4347	743581.9148
L3	912+04.87	2969528.4347	743581.9148		N82°16'57"E 66.43'	912+71.30	2969537.3559	743647.7462
C4	915+41.29	2969529.5943	743917.0898	R=150.00' Δ=9°39'46" L=25.30' T=12.68'		915+66.58	2969527.3396	743942.2558
L6	915+66.58	2969527.3396	743942.2558		S89°42'42"E 46.00'	916+12.59	2969527.1082	743988.2587
C5	916+12.59	2969527.1082	743988.2587	R=125.00' Δ=9°07'44" L=19.92' T=9.98'		916+32.50	2969528.5917	744008.0985
L7	916+32.50	2969528.5917	744008.0985		N81°09'33"E 35.95'	916+68.45	2969534.1167	744043.6212
C6	916+68.45	2969534.1167	744043.6212	R=250.00' Δ=9°07'18" L=39.80' T=19.94'		917+08.25	2969537.0839	744083.2693
L14	917+08.25	2969537.0839	744083.2693		S89°43'08"E 742.92'	924+51.17	2969533.4402	744826.1769
C13	924+51.17	2969533.4402	744826.1769	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		924+62.99	2969533.6150	744837.9932
L13	924+62.99	2969533.6150	744837.9932		N88°01'26"E 38.96'	925+01.95	2969534.9585	744876.9314
C14	925+01.95	2969534.9585	744876.9314	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		925+13.77	2969535.1333	744888.7477
L12	925+13.77	2969535.1333	744888.7477		S89°43'08"E 490.99'	930+04.76	2969532.7252	745379.7331
C15	930+04.76	2969532.7252	745379.7331	R=300.00' Δ=8°38'04" L=45.21' T=22.65'		930+49.97	2969535.9045	745424.7889
L15	930+49.97	2969535.9045	745424.7889		N81°38'47"E 95.03'	931+44.99	2969549.7098	745518.8059
C16	931+44.99	2969549.7098	745518.8059	R=250.00' Δ=8°38'04" L=37.68' T=18.87'		931+82.67	2969552.3592	745556.3523
L19	931+82.67	2969552.3592	745556.3523		S89°43'08"E 114.78'	932+97.45	2969551.7963	745671.1310
L20	932+97.45	2969551.7963	745671.1310		S81°58'02"E 22.24'	933+19.69	2969548.6882	745693.1548
L18	933+19.69	2969548.6882	745693.1548		S89°43'08"E 106.91'	934+26.61	2969548.1639	745800.0663
C17	934+26.61	2969548.1639	745800.0663	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		934+59.47	2969546.2043	745832.8592
L16	934+59.47	2969546.2043	745832.8592		S83°26'30"E 113.43'	935+72.90	2969533.2489	745945.5481
C7	935+72.90	2969533.2489	745945.5481	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		936+05.77	2969531.2893	745978.3410
L21	936+05.77	2969531.2893	745978.3410		S89°43'08"E 329.75'	939+35.53	2969529.6720	746308.0904
C20	939+35.53	2969529.6720	746308.0904	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		939+55.48	2969528.7783	746328.0194
L22	939+55.48	2969528.7783	746328.0194		S85°08'45"E 30.20'	939+85.68	2969526.2226	746358.1138
C21	939+85.68	2969526.2226	746358.1138	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		940+05.64	2969525.3289	746378.0428

BELMONT COMMUNITY PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L23	940+05.64	2969525.3289	746378.0428		S89°43'08"E 1057.20'	950+62.84	2969520.1438	747435.2306
C8	950+62.84	2969520.1438	747435.2306	R=200.00' Δ=9°55'58" L=34.67' T=17.38'		950+97.51	2969516.9767	747469.7144
L8	950+97.51	2969516.9767	747469.7144		S79°47'10"E 46.97'	951+44.48	2969508.6477	747515.9408
C9	951+44.48	2969508.6477	747515.9408	R=200.00' Δ=9°53'22" L=34.52' T=17.30'		951+79.00	2969505.4814	747550.2732
L9	951+79.00	2969505.4814	747550.2732		S89°40'32"E 734.87'	959+13.87	2969501.3208	748285.1278
C10	959+13.87	2969501.3208	748285.1278	R=50.00' Δ=14°05'31" L=12.30' T=6.18'		959+26.17	2969502.7565	748297.3100
L10	959+26.17	2969502.7565	748297.3100		N76°13'57"E 68.99'	959+95.16	2969519.1753	748364.3193
C11	959+95.16	2969519.1753	748364.3193	R=50.00' Δ=34°04'27" L=29.74' T=15.32'		960+24.89	2969517.5042	748393.5707
C12	960+24.89	2969517.5042	748393.5707	R=75.00' Δ=22°41'49" L=29.71' T=15.05'		960+54.60	2969512.9081	748422.7271
L11	960+54.60	2969512.9081	748422.7271		N87°36'35"E 112.65'	961+67.25	2969517.6062	748535.2773

BELMONT STATION RAMP CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L25	50+00.00	2969562.6291	743635.8970		N88°12'14"E 45.40'	50+45.40	2969564.0520	743681.2753
C36	50+45.40	2969564.0520	743681.2753	R=100.00' Δ=6°19'25" L=11.04' T=5.52'		50+56.44	2969565.0054	743692.2652
L24	50+56.44	2969565.0054	743692.2652		N81°52'49"E 35.93'	50+92.37	2969570.0806	743727.8383
C37	50+92.37	2969570.0806	743727.8383	R=15.00' Δ=98°36'23" L=25.82' T=17.44'		51+18.19	2969555.1035	743744.9563
L26	51+18.19	2969555.1035	743744.9563		S0°29'12"W 21.29'	51+39.48	2969533.8143	743744.7754

BRIGHTON ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L43	200+00.00	2969340.8034	748365.0437		N13°37'02"W 300.00'	203+00.00	2969632.3735	748294.4124

7 CHANNING ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L28	2+12.82	2969545.2041	744061.8746		S4°28'04"E 8.90'	2+21.72	2969536.3272	744062.5682
C24	1+97.06	2969555.2531	744051.8747	R=10.00' Δ=90°16'52" L=15.76' T=10.05'		2+12.82	2969545.2041	744061.8746
L27	1+29.18	2969555.2531	743983.9950		N90°00'00"E 67.88'	1+97.06	2969555.2531	744051.8747
C25	1+13.77	2969564.9590	743973.9994	R=10.00' Δ=88°18'52" L=15.41' T=9.71'		1+29.18	2969555.2531	743983.9950
L30	0+53.93	2969624.7722	743972.2393		S1°41'08"E 59.84'	1+13.77	2969564.9590	743973.9994
L29	0+00.00	2969678.6910	743971.3005		S0°59'51"E 53.93'	0+53.93	2969624.7722	743972.2393

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609204_HD(BASELINE_TIE).DWG Plotted on ---- ----

ALEXANDER AVE SPUR CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L31	500+00.00	2969691.2285	745556.5454		S2°14'52"E 12.36'	500+12.36	2969678.8765	745557.0302
C26	500+12.36	2969678.8765	745557.0302	R=25.00' Δ=33°38'39" L=14.68' T=7.56'		500+27.04	2969665.2005	745561.7579
L32	500+27.04	2969665.2005	745561.7579		S35°53'31"E 7.64'	500+34.68	2969659.0121	745566.2363
C27	500+34.68	2969659.0121	745566.2363	R=200.00' Δ=20°19'06" L=70.92' T=35.84'		501+05.61	2969610.0467	745617.0322
L33	501+05.61	2969610.0467	745617.0322		S56°12'38"E 72.16'	501+77.76	2969569.9163	745677.0021
C32	501+77.76	2969569.9163	745677.0021	R=100.00' Δ=4°40'52" L=8.17' T=4.09'		501+85.93	2969565.1003	745683.5991
L41	501+85.93	2969565.1003	745683.5991		S44°59'41"E 7.86'	501+93.80	2969559.5411	745689.1573
L42	501+93.80	2969559.5411	745689.1573		S44°59'41"E 16.20'	502+09.99	2969548.0878	745700.6085
C33	502+09.99	2969548.0878	745700.6085	R=26.00' Δ=45°20'06" L=20.57' T=10.86'		502+30.56	2969529.5585	745708.2419
L34	502+30.56	2969529.5585	745708.2419		S0°16'40"W 76.22'	503+06.78	2969453.3440	745707.8724
C28	503+06.78	2969453.3440	745707.8724	R=60.00' Δ=24°59'13" L=26.17' T=13.29'		503+32.95	2969428.0267	745702.1338
L35	503+32.95	2969428.0267	745702.1338		S25°15'53"W 43.04'	503+75.99	2969389.1034	745683.7641
C29	503+75.99	2969389.1034	745683.7641	R=60.00' Δ=40°32'07" L=42.45' T=22.16'		504+18.43	2969347.6926	745680.1432
L36	504+18.43	2969347.6926	745680.1432		S15°16'14"E 37.31'	504+55.74	2969311.7015	745689.9693
C30	504+55.74	2969311.7015	745689.9693	R=75.00' Δ=15°16'14" L=19.99' T=10.05'		504+75.73	2969291.9483	745692.6173
L37	504+75.73	2969291.9483	745692.6173		S0°00'00"E 15.65'	504+91.38	2969276.2996	745692.6173
C31	504+91.38	2969276.2996	745692.6173	R=100.00' Δ=9°05'25" L=15.87' T=7.95'		505+07.25	2969260.5005	745693.8733
L38	505+07.25	2969260.5005	745693.8733		S9°05'25"E 18.57'	505+25.81	2969242.1652	745696.8069
L39	505+25.81	2969242.1652	745696.8069		S0°33'42"E 348.32'	508+74.14	2968893.8574	745700.2210
C34	508+74.14	2968893.8574	745700.2210	R=50.00' Δ=47°09'47" L=41.16' T=21.83'		509+15.30	2968857.0377	745684.5768
C35	509+15.30	2968857.0377	745684.5768	R=50.00' Δ=22°59'26" L=20.06' T=10.17'		509+35.36	2968840.7342	745673.1158
L40	509+35.36	2968840.7342	745673.1158		S23°36'39"W 122.88'	510+58.24	2968728.1379	745623.8983

MBTA RR CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L44	290+00.00	2969479.5697	748717.8932		N89°43'36"W 4714.05'	337+14.05	2969502.0666	744003.8969
C38	337+14.05	2969502.0666	744003.8969	R=6589.65' Δ=3°01'00" L=346.95' T=173.52'		340+61.00	2969494.5902	743657.0674

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	26	199
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

609204_HD\BASELINE_TIE).DWG Plotted on ---- ----

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD\BASELINE_TIE).dwg ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	27	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

R&D EXIST GUARD RAIL 900+25 TO 900+40 LT
PROP TIMBER RAIL 900+33 TO 901+00 LT
PROP TIMBER RAIL 902+24 TO 903+25 LT
PROP TIMBER RAIL 905+00 TO 910+25 LT

TRAFFIC SIGNAL CONDUIT

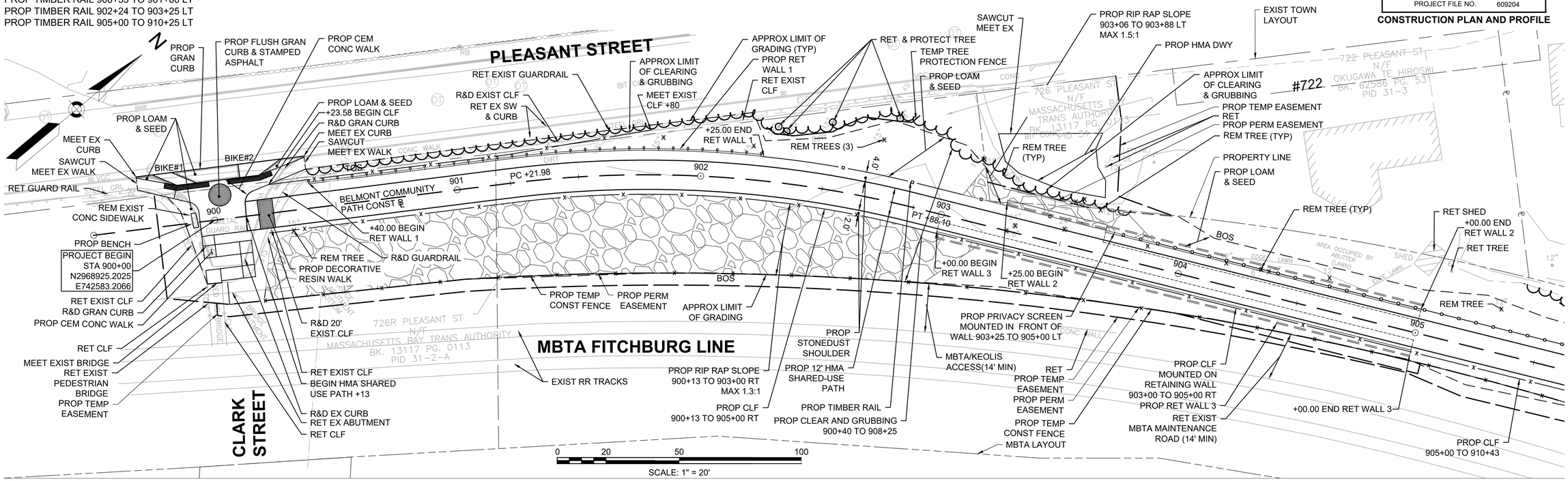
NONE

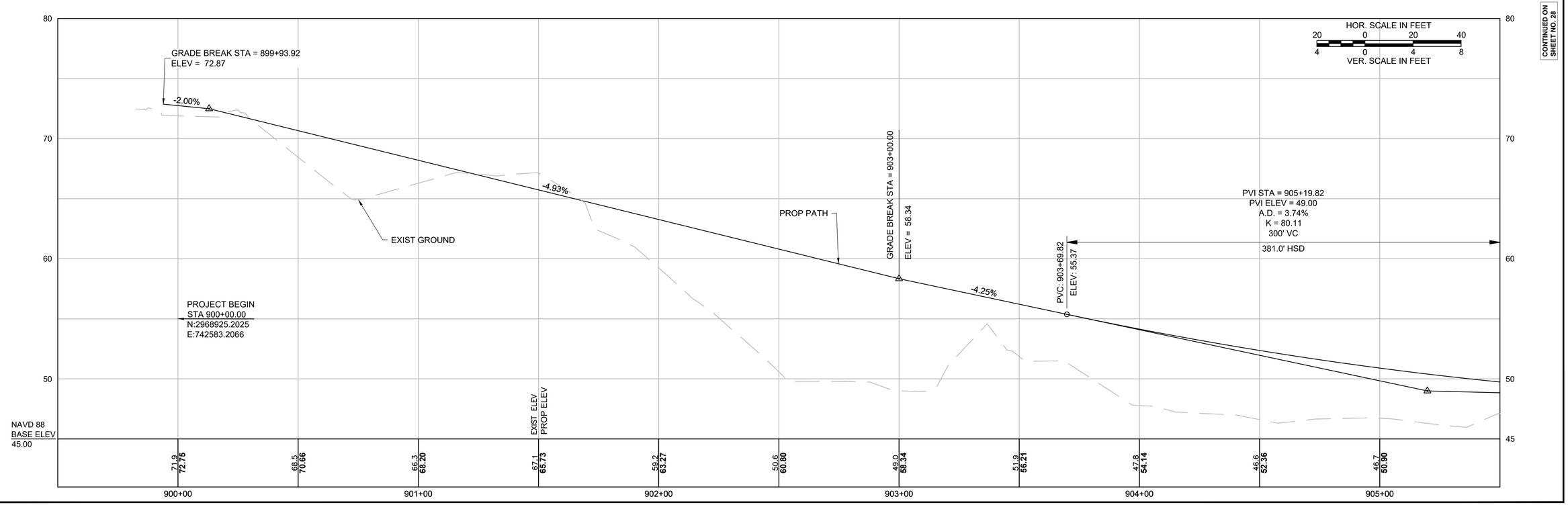
WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 68





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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	28	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 905+00 TO 910+25 LT
PROP TIMBER RAIL 910+43 TO 912+55 RT

TRAFFIC SIGNAL CONDUIT

NONE

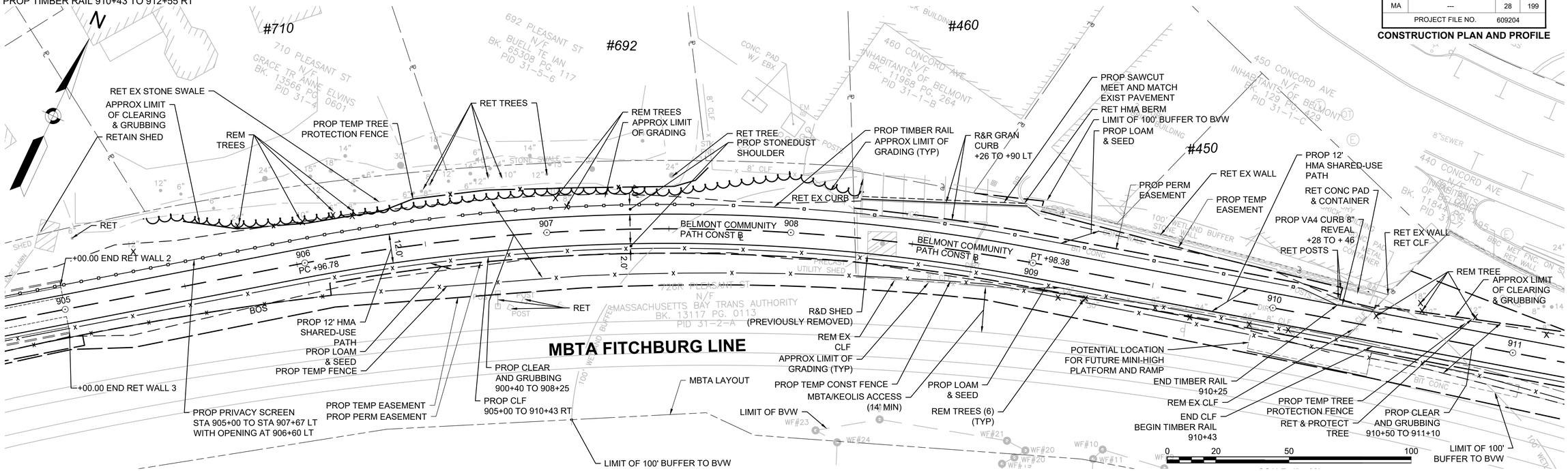
WATER SUPPLY ALTERATIONS

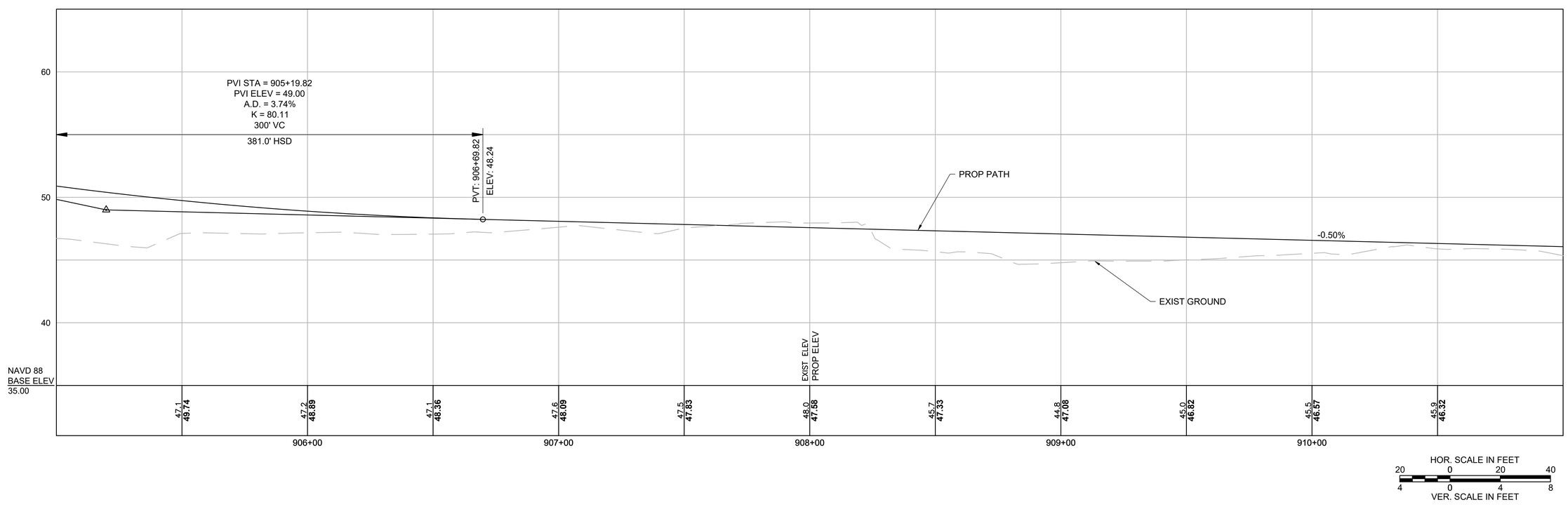
NONE

DRAINAGE DETAILS

SEE SHEET 68

CONTINUED ON SHEET NO. 27





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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	29	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 910+43 TO 912+55 RT
PROP TIMBER RAIL 912+64 TO 913+63 RT
PROP TIMBER RAIL 912+63 TO 913+61 LT
PROP TIMBER RAIL 914+70 TO 915+77 LT
PROP TIMBER RAIL 50+02 TO 51+20 LT

TRAFFIC SIGNAL CONDUIT

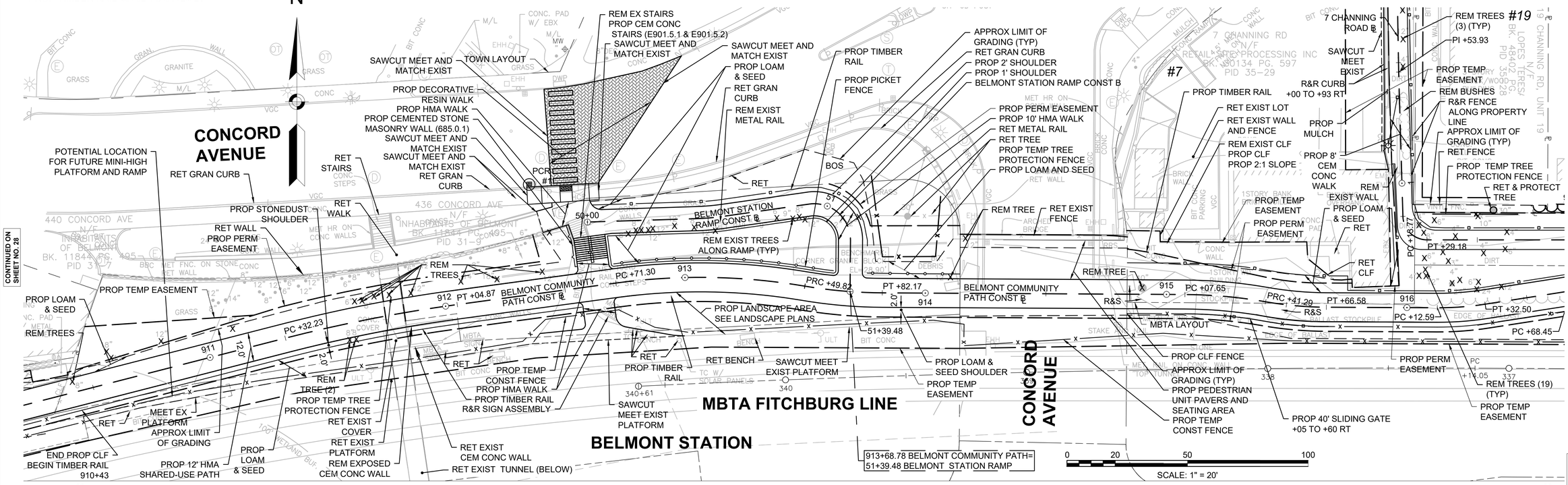
NONE

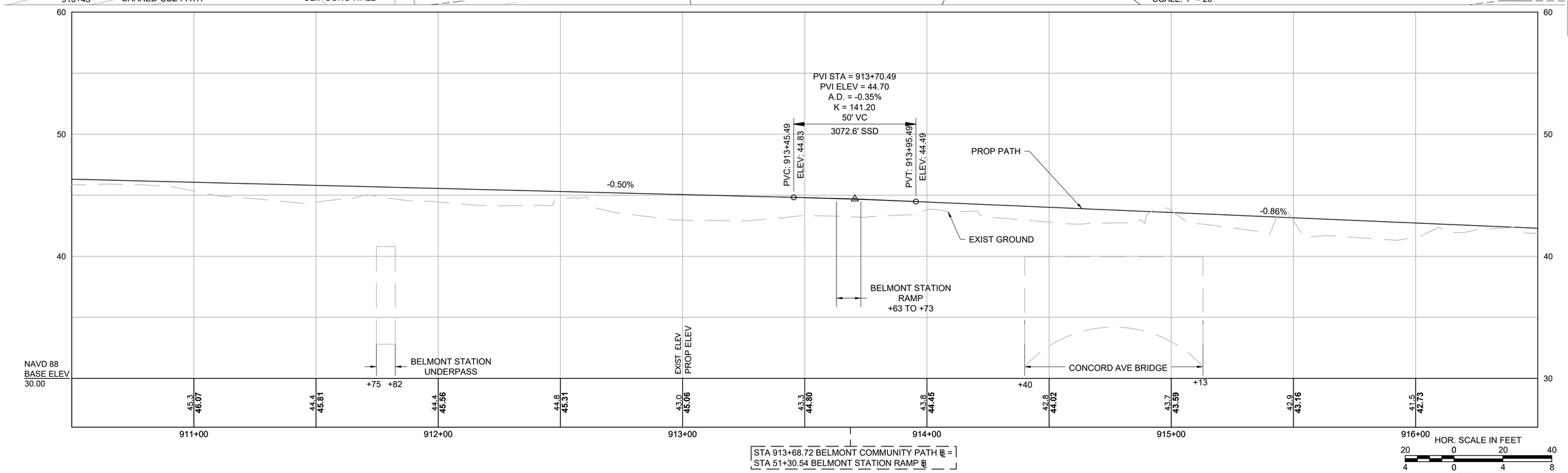
WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 69





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CHANNING ROAD

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	30	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 915+98 TO 916+90 LT
PROP TIMBER RAIL 916+93 TO 931+20 LT
PROP TIMBER RAIL 1+10 TO 2+12 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 69

N

#19 | #23-25 | #29 | #31-33 | #35 | #39 | #45-47 | #49-51 | #53 | #57-59 | #61-63

MEET EXIST SIDEWALK
PROP MULCH
#7 CHANNING ROAD CONST ℄
REM EX SHRUB
PROP PERM EASEMENT
REM EX TREES (4)
SAWCUT MEET EXIST
PI +53.93
R&R CURB +00 TO +93 RT
PROP TEMP EASEMENT
REM EX LIGHT
REM EX SHRUB
R&R FENCE ALONG PROPERTY LINE 0+00 TO 1+09 LT
PROP 8' CEM CONC WALK
APPROX LIMIT OF GRADING (TYP)
RET FENCE
RET SHED
RET & PROTECT TREE
PROP TEMP TREE PROTECTION FENCE
PROP LP REM EX WALL
PROP FENCE 0+92 TO 1+25 RT
PC +97.06
PROP TIMBER RAIL
PROP LOAM & SEED
APPROX LIMIT OF CLEARING & GRUBBING
PROP GRASS SWALE 917+08 TO 931+36 LT
APPROX LIMIT OF GRADING (TYP)
REM TREES (TYP)
BELMONT CITIZENS FORUM
APPROX LIMIT OF CLEARING & GRUBBING
REM TREES (TYP)
MEET EXIST BLDG ELEV
PT +29.18
PT +12.82
PT +08.25
PT +66.58
PC +12.59
PT +32.50
PC +68.45
916
917
918
919
920
921
922
BELMONT COMMUNITY PATH CONST ℄
PROP PERM EASEMENT
REM TREES (19) (TYP)
PC +14.05
337
336
335
333
332
APPROX LIMIT OF GRADING (TYP)
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP TEMP CONST FENCE
PROP 12' HMA SHARED-USE PATH
PROP LOAM & SEED SHOULDER
PROP TEMP EASEMENT
PROP PRIVACY SCREEN STA 920+44 TO 920+99 LT
PROP CLF 913+75 TO 933+20 LT
9' MIN CLEARANCE FROM TRACKS
PROP TEMP EASEMENT
916+87.53 BELMONT COMMUNITY PATH= 2+21.72 7 CHANNING ROAD
PROP 40' SLIDING GATE +29 TO +82 RT
PROP LOAM & SEED
PROP CLEARING AND GRUBBING 916+00 TO 932+75
PROP LOAM & SEED MBTA/KEOLIS ACCESS (14' MIN)

MBTA FITCHBURG LINE

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 29
CONTINUED ON SHEET NO. 31

GRADE BREAK STA = 916+88.08
ELEV = 41.97
-0.86%
-0.69%
PROP PATH
EXIST GROUND
7 CHANNING ROAD PATH +83 TO +91
NAVD 88 BASE ELEV 25.00
EXIST ELEV
PROP ELEV

917+00	918+00	919+00	920+00	921+00
41.9 / 42.30	41.5 / 41.89	41.4 / 41.54	40.5 / 41.20	39.9 / 40.85	39.1 / 40.50	38.8 / 40.16	38.1 / 39.81	38.1 / 39.46	37.4 / 39.12	37.3 / 38.77

STA 916+88.42 BELMONT COMMUNITY PATH ℄ = STA 2+21.72 7 CHANNING ROAD ℄

50 / 40 / 30 / 25

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

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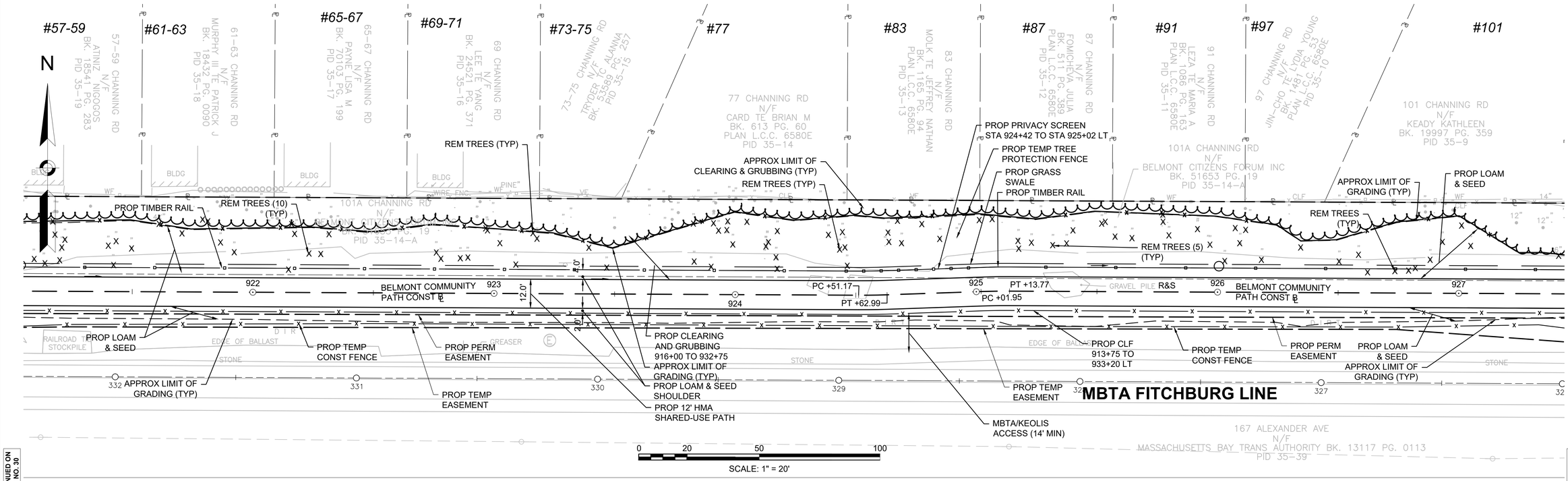
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	31	199
PROJECT FILE NO.	609204		

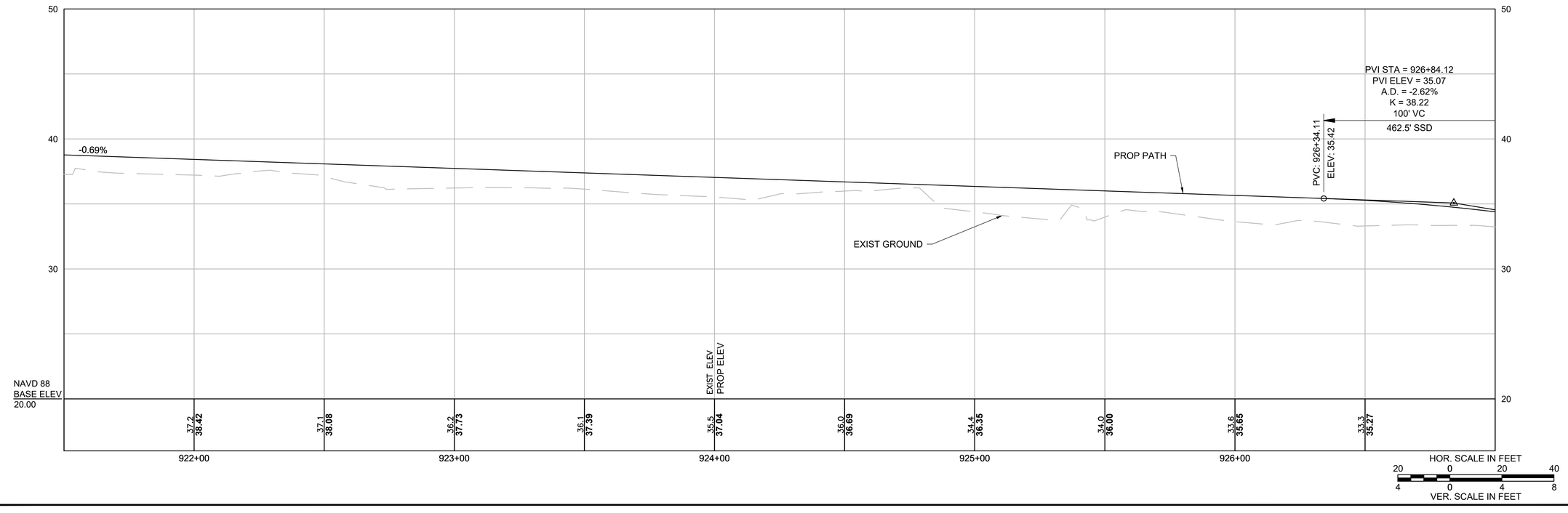
CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT	NONE	NONE	SEE SHEET 70



CONTINUED ON SHEET NO. 30

CONTINUED ON SHEET NO. 32



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	32	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT	NONE	NONE	SEE SHEET 70

N

#83 #87 #91 #97 #101 #105 #111 #115 #119 #125 #145 (ALEXANDER AVE)

83 CHANNING RD N/F MOLK TE JEFFREY NATHAN BK. 51165 PG. 94 PLAN L.C.C. 6580E PID 35-13

87 CHANNING RD N/F FOMICHEVA JULIA BK. 51589 PLAN L.C.C. 6580E PID 35-12

91 CHANNING RD N/F LEZA TE MARIA A BK. 51086 PG. 163 PLAN L.C.C. 6580E PID 35-11

97 CHANNING RD N/F JIN-CHO TE LYDIA YOUNG BK. 1481 PG. 53 PLAN L.C.C. 6580E PID 35-10

101 CHANNING RD N/F KEADY KATHLEEN BK. 19997 PG. 359 PID 35-9

105 CHANNING RD N/F WATTERS, LEE MARGARET M BK. 53695 PG. 390 PID 35-8

111 CHANNING RD N/F XIE XIAOYUN BK. 59970 PG. 260 PID 35-7

115 CHANNING RD N/F THOMAS TE SIJU BK. 10356 PG. 414 PID 35-6

119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5

125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4

145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 0379 PID 35-3

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39

PROP GRASS SWALE 917+08 TO 931+36 LT

PROP LOAM & SEED

REM TREES (TYP)

PROP TEMP TREE PROTECTION FENCE

BELMONT CITIZENS FORUM APPROX LIMIT OF GRADING (TYP)

PROP PRIVACY SCREEN STA 928+03 TO 928+74 LT

REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)

PROP CRUSHED STONE SHOULDER

PROP PRIVACY SCREEN STA 929+90 TO 930+67 LT

PROP TEMP EASEMENT

PROP TEMP TREE PROTECTION FENCE

925 PT +13.77 PC +01.95

926 927 928 929 930 931

BELMONT COMMUNITY PATH CONST ℄

PC +04.76 PT +49.97

R&D

GRAVEL PILE

EDGE OF BALLAST

PROP TIMBER RAIL PROP CLF

PROP PERM EASEMENT PROP TEMP CONST FENCE

PROP LOAM & SEED

PROP CLEARING AND GRUBBING 916+00 TO 932+75

APPROX LIMIT OF GRADING (TYP)

PROP PERM EASEMENT MBTA/KEOLIS ACCESS (14' MIN)

PROP TEMP EASEMENT

PROP 30' SLIDING GATE +50 TO +80 RT

PROP PERM EASEMENT

REM TREES (TYP)

PROP TIMBER RAIL

PROP 12' HMA SHARED-USE PATH

PROP GRASS SWALE 917+08 TO 931+36 LT

PROP PERM EASEMENT

PROP TEMP EASEMENT

MBTA/KEOLIS ACCESS (14' MIN)

MBTA FITCHBURG LINE

SIGNAL TOWER

2.0' 12.0'

CONCRETE BLOCK RETAINING WALL (TYP)

EHH

STONE

324 323 326 327 32

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 33

CONTINUED ON SHEET NO. 34

PVI STA = 926+84.12
PVI ELEV = 35.07
A.D. = -2.62%
K = 38.22
100' VC
462.5' SSD

-0.69%

PVC: 926+34.11 ELEV: 35.42

PVT: 927+34.12 ELEV: 33.42

-0.69 %

EXIST GROUND

-3.31%

PROP PATH

NAVD 88
BASE ELEV
15.00

EXIST ELEV
PROP ELEV

926+00	927+00	928+00	929+00	930+00
34.0 / 36.00	33.6 / 35.65	33.3 / 35.27	33.2 / 34.39	32.4 / 32.89
32.6 / 31.24	32.0 / 29.58	31.3 / 27.93	31.3 / 26.27	31.1 / 24.62

40 30 20 15

HOR. SCALE IN FEET
20 0 20 40

VER. SCALE IN FEET
4 0 4 8

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	33	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 916+93 TO 931+20 LT
PROP TIMBER RAIL 935+16 TO 953+45 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 71

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

BELMONT MIDDLE AND HIGH SCHOOL

LIMIT OF WORK
STA 500+09.42
N2969681.8114
E745556.9150

500+00
ALEXANDER AVE SPUR CONST
PC +12.36
PROP LOAM & SEED
APPROX LIMIT OF GRADING (TYP)
PROP 10' HMA SHARED-USE PATH
PROP TEMP TREE PROTECTION FENCE
END PROP TIMBER RAIL 931+20 LT
+07.60 BEGIN RET WALL 5
PROP TEMP EASEMENT
PROP CLEARING AND GRUBBING 916+00 TO 932+75
R&D EXIST FENCE
PROP CLF MOUNTED ON RET WALL (TYP)
REM TREES (TYP)
PROP PRIVACY SCREEN STA 929+90 TO 930+67 LT
PROP GRASS SWALE 917+08 TO 931+36 LT
PROP PERM EASEMENT
PROP RET WALL 4
PROP CRUSHED STONE SHOULDER
MBTA/KEOLIS ACCESS (14' MIN)
PROP DECORATIVE RESIN WALK (TYP)
REM TREES (TYP)
RET MBTA SIGNAL EQUIPMENT ON CONC PAD
PROP TEMP SOE
PROP LOAM & SEED
REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)
PROP FENCE MOUNTED ON WALL
PROP LIMIT OF TRACK REMOVAL
PROP PERM EASEMENT
RET CLF
RET BUILDING
RET EX WALL
PROP TEMP CONST FENCE
PROP TEMP EASEMENT
REM CLF
REM EXIST WALL
R&S CONTAINER
PROP CLF MOUNTED ON RET WALL (TYP)
PROP LOAM & SEED SHOULDER
APPROX LIMIT OF GRADING (TYP)
PROP TEMP EASEMENT
PROP LOAM & SEED
REM TREES
PROP LIGHT POLE, TYP SEE LIGHTING PLANS SHEET 61-63
RET
REM EXIST FENCE
PROP DECORATIVE RESIN WALK
PC +77.76
PROP DECORATIVE RESIN WALK 24' Ø CENTRAL ISLAND
APPROX LIMIT OF CLEARING & GRUBBING (TYP)
PT +85.93
PI +93.80
933+26.58 BELMONT COMMUNITY PATH= 502+09.19 ALEXANDER AVE SPUR
RET SHED
PROP PRIVACY SCREEN MOUNTED BEHIND RET WALL 501+25 TO 935+16 LT
PROP 12' HMA SHARED-USE PATH
R&D EXIST FENCE
PROP TEMP EASEMENT
+16.08 END RET WALL
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
+25.05 END RET WALL 5
PT +82.67
PC +44.99
PT +49.97
PC +04.76
PT +59.47
PC +26.61
PC +09.99
PI +19.69
PI +97.45
PT +30.58
PROP CLF MOUNTED ON WALL
PROP TEMP SOE
PROP LOAM & SEED
REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)
PROP LIMIT OF TRACK REMOVAL
PROP DECORATIVE RESIN WALK
PROP CLF MOUNTED ON WALL 933+31 TO 933+61 RT
PROP PERM EASEMENT
PROP UNDERPASS (B-07-017) SEE STRUCTURAL DETAILS
MBTA LAYOUT
+15.32 BEGIN WINGWALL 7
PC +16.78
PT +32.95
R&S 75' FENCE W/IN EXCAVATION
+13.44 BEGIN WINGWALL 8
PROP TEMP CONST FENCE
PROP TEMP EASEMENT
R&R (BO-BELMONT LIGHT)
PROP 10' HMA SHARED-USE PATH
RET GRAN CURB
RET EXIST LP
PC +75.99
APPROX LIMIT OF GRADING (TYP)
R&D EXIST FENCE
PT +18.43
PROP TEMP SOE
PROP LOAM & SEED
REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)
PROP LIMIT OF TRACK REMOVAL
PROP CLF MOUNTED ON WALL
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP UNDERPASS (B-07-017) SEE STRUCTURAL DETAILS
MBTA LAYOUT
BELMONT COMMUNITY PATH CONST
PROP TEMP EASEMENT
PROP CLF MOUNTED ON WALL
PROP LOAM & SEED SHOULDER
APPROX LIMIT OF GRADING (TYP)
R&D EXIST FENCE
PROP 12' HMA SHARED-USE PATH
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP UNDERPASS (B-07-017) SEE STRUCTURAL DETAILS
MBTA LAYOUT
PROP TEMP EASEMENT
PROP CLF MOUNTED ON WALL
PROP LOAM & SEED SHOULDER
APPROX LIMIT OF GRADING (TYP)
R&D EXIST FENCE
PROP 12' HMA SHARED-USE PATH
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP UNDERPASS (B-07-017) SEE STRUCTURAL DETAILS
MBTA LAYOUT

INSET
PT +18.43
RET EXIST CLF
RET LIGHT
+40.00 END RET WALL 7
+40.00 END RET WALL 8
PROP LOAM & SEED
PROP TIMBER RAIL
PROP 10' HMA SHARED-USE PATH
PC +55.74
PT +75.73
PROP LOAM & SEED SHOULDER
RET LIGHT
PC +91.38
PT +07.25
RET GRAN CURB
SAWCUT MEET AND MATCH EXIST CEM CONC SW +25.48
RET LIGHT
PROP TEMP EASEMENT
END TIMBER RAIL +26
PI +25.87
LIMIT OF WORK
STA 505+25.48
N2969242.5001
E745696.7534

#119 — 119 CHANNING RD N/F ROSSI JOCELYN BK. 07445 PG. 362 PID 35-5
#125 — 125 CHANNING RD N/F COBUZZI PAUL DAVID BK. 20009 PG. 228 PID 35-4
#145 (ALEXANDER AVE) — 145 ALEXANDER AVE N/F COBUZZI ROBERT ANTHONY BK. 20865 PG. 0379 PID 35-3
#159 (ALEXANDER AVE) — 159 ALEXANDER AVE N/F SCARFO JAMES J BK. 8116 PG. 485 PID 35-1
101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A
167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35-39
145 CHANNING RD N/F HEALEY TE PAUL BK. 41373 PG. 343 PID 37-92
#145
#153 — 153 CHANNING RD N/F MORIN TE KARA A BK. 53096 PG. 515 PID 37-91
#159 — 159 CHANNING RD N/F LESHANE TRS JOHN & JOHN J JR BK. 60501 PG. 86 PID 37-90
MASSACHUSETTS BAY TRANS AUTHORITY N/F BK. 13117 PG. 0113 PID 35-42

CONTINUED ON SHEET NO. 32
CONTINUED ON SHEET NO. 36
CONTINUED ON INSET ABOVE
SEE SHEETS 34 & 35 FOR PROFILES

0 20 50 100
SCALE: 1" = 20'

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

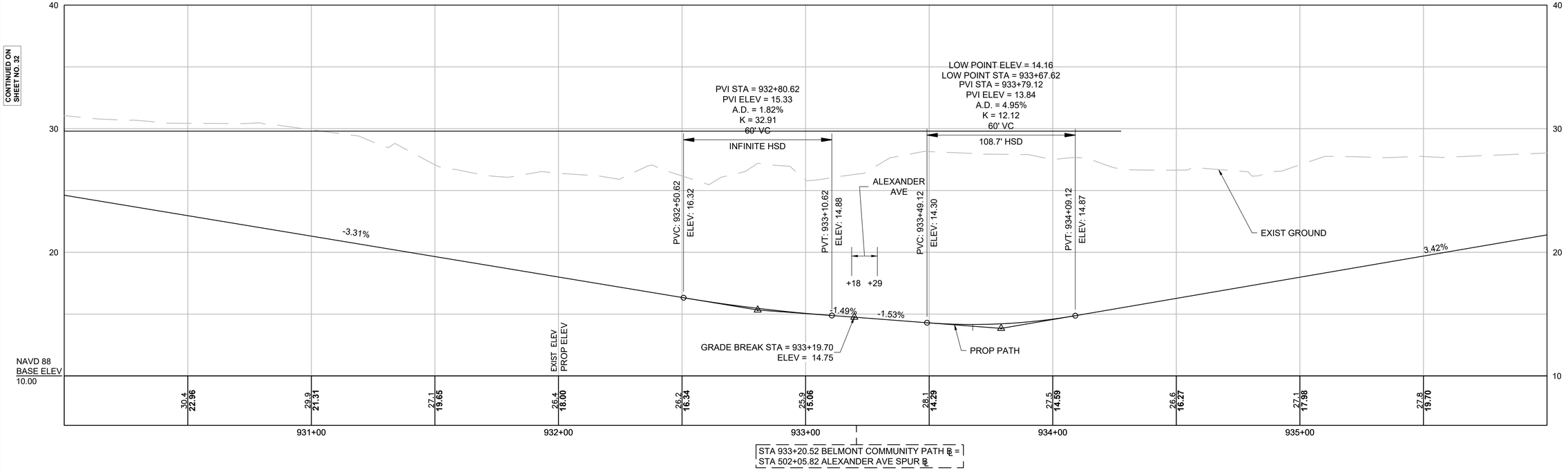
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	34	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

BELMONT COMMUNITY PATH

CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 36



HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

SEE SHEET 33 FOR CONSTRUCTION PLAN

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609204_HD(CONST-VIEW).DWG Plotted on ---- ----
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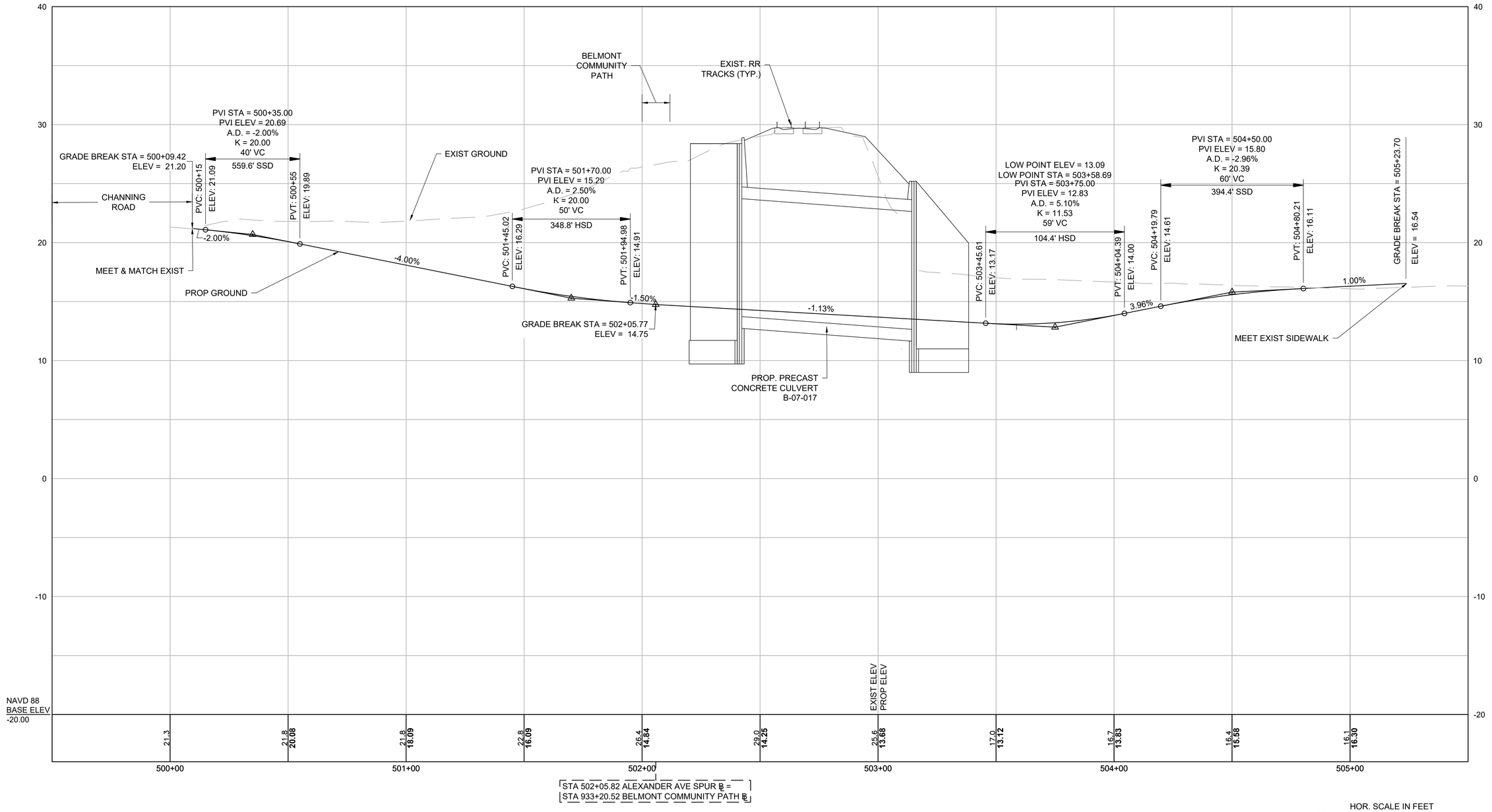
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	35	199
PROJECT FILE NO.		609204	

CONSTRUCTION PLAN AND PROFILE

ALEXANDER AVE SPUR



CONTINUED ON SHEET NO. ##

SEE SHEET 33 FOR CONSTRUCTION PLAN

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	36	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 72

N

#159 159 CHANNING RD N/F LESHANE TRS JOHN & JOHN J JR BK. 60501 PG. 86 PID 37–90

#167 167 CHANNING RD N/F BHATTA TE DEEN B BK. 39477 PG. 544 PID 37–89

#175 175 CHANNING RD N/F QUINN TRS JOHN A BK. 9258 PG. 446 PID 37–88

#181 181 CHANNING RD N/F BRANGWYNNE TE RUSSELL F BK. 20545 PG. 0049 PID 37–87

#187 187 CHANNING RD N/F CORRIGAN TE PAUL JEFFREY BK. 46016 PG. 404 PID 37–86

#193 193 CHANNING RD N/F DEORIO TR WILLIAM A & MARILYN C BK. 36344 PG. 540 PID 37–85

#199 199 CHANNING RD N/F ZHU TE MENG YU BK. 40971 PG. 33 PID 37–84

#203 203 CHANNING RD N/F TIERNEY ANN M BK. 18911 PG. 372 PID 37–83

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113 PID 35–39

PROP TEMP EASEMENT
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
+14.92 END RET WALL 6
BEGIN PROP TIMBER RAIL 935+16
RET EXIST FENCE
PROP GRASS SWALE 935+73 TO 951+57 LT
APPROX LIMIT OF CLEARING & GRUBBING
PROP LOAM AND SEED
PROP TIMBER RAIL
PROP LOAM & SEED SHOULDER
PROP 12' HMA SHARED-USE PATH
BELMONT CITIZENS FORUM
RET EXIST FENCE
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
APPROX LIMIT OF GRADING (TYP)
PROP LOAM AND SEED
REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)

PT +59.47
935 BELMONT COMMUNITY PATH CONST ℄
PC +72.90
936 PT +05.77
937
938
939
PC +35.53
PT +55.48
940 PT +05.64
PC +85.68
BELMONT COMMUNITY PATH CONST ℄

MBTA/KEOLIS ACCESS (14' MIN)
PROP CLF 933+68 TO 959+30 RT
PROP RIP RAP MAX 1:1 933+65 TO 937+50 RT
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP 30' SLIDING GATE +50 TO +80 RT
PROP PERMANENT NTCS (ITEM 871.22)
PROP TEMP CONST FENCE
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
APPROX LIMIT OF GRADING (TYP)
PROP LOAM AND SEED
MBTA/KEOLIS ACCESS (14' MIN)
APPROX LIMIT OF GRADING (TYP)

318 317 315 314 313

MBTA FITCHBURG LINE

MBTA LAYOUT
MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 33
CONTINUED ON SHEET NO. 37

HIGH POINT ELEV = 26.31
HIGH POINT STA = 937+84.48
PVI STA = 937+51.62
PVI ELEV = 26.60
A.D. = -4.13%
K = 24.20
100' VC
311.1' SSD

PVC: 937+01.62 ELEV: 24.89
PVT: 938+01.62 ELEV: 26.25

3.42%
-0.71%
PROP PATH
EXIST GROUND

NAVD 88 BASE ELEV 10.00

EXIST. ELEV / PROP ELEV

936+00	937+00	938+00	939+00	940+00
27.8 / 19.70	26.9 / 24.83	26.3 / 26.06	25.5 / 26.26	25.1 / 25.90
28.0 / 21.41			24.2 / 25.55	23.4 / 25.20
27.6 / 23.12				23.6 / 24.84

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

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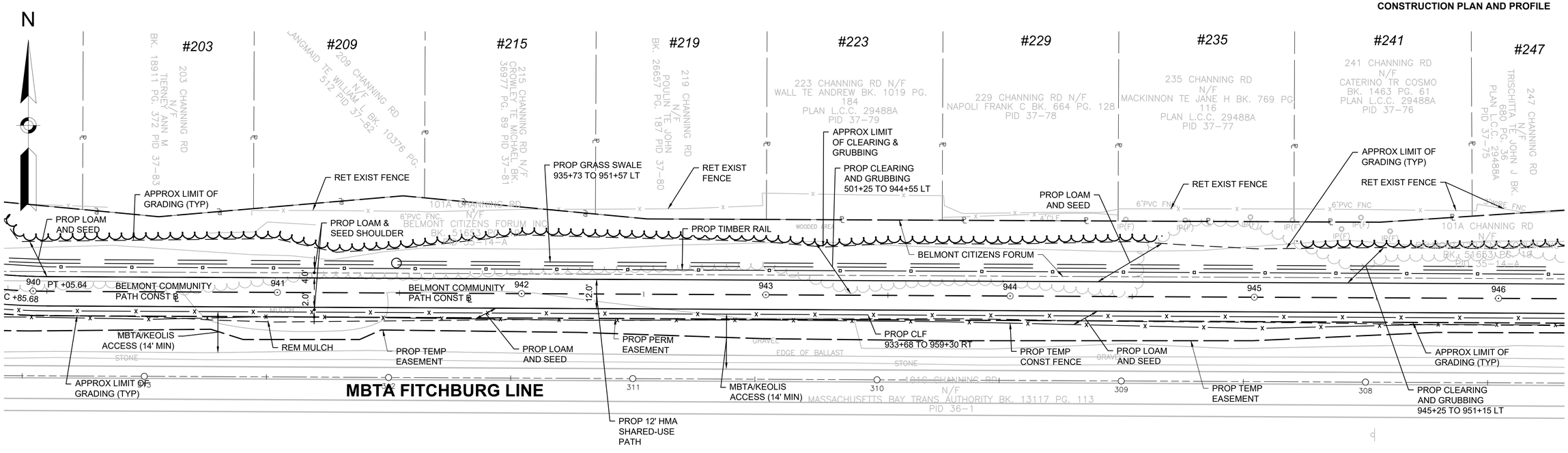
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

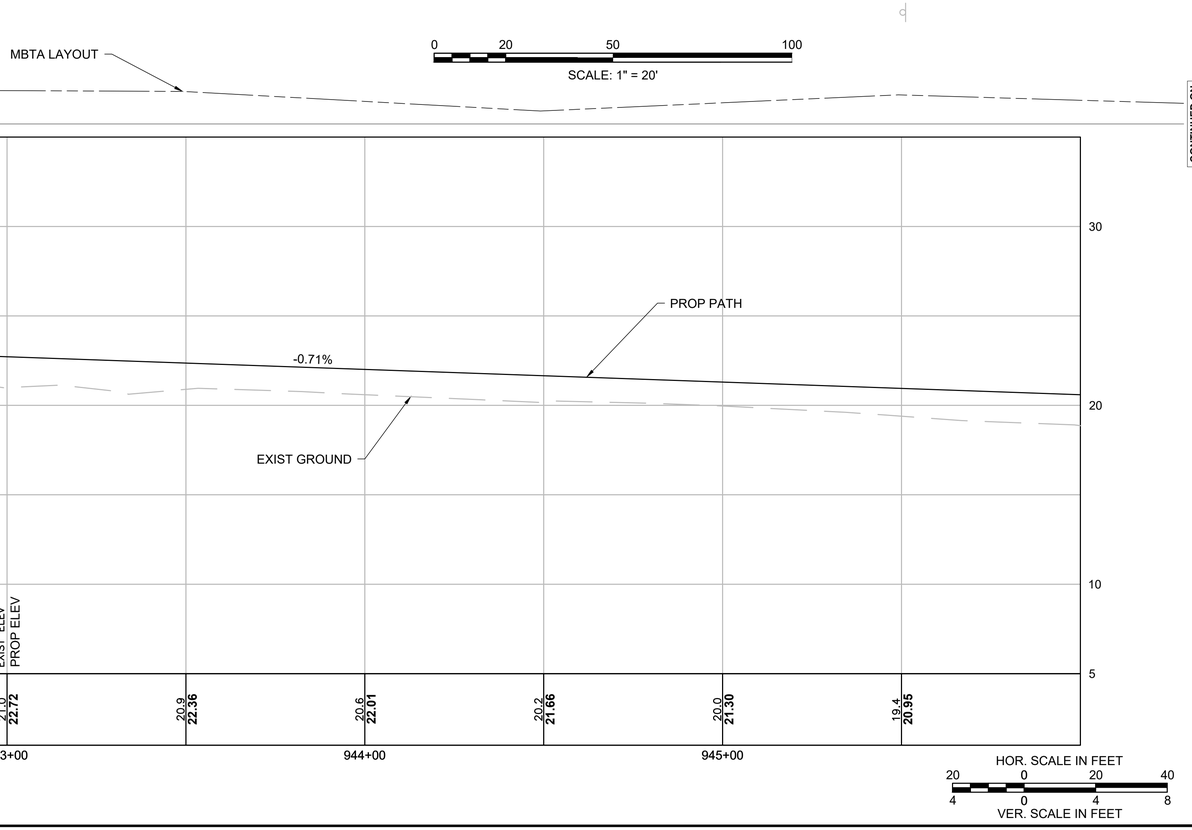
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	37	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 72



CONTINUED ON SHEET NO. 36



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	38	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 73

N

#241
241 CHANNING RD
N/F
CATERINO TR COSMO
BK. 1463 PG. 61
PLAN L.C.C. 29488A
PID 37-76

#247
247 CHANNING RD
N/F
TRISCHITTA TE JOHN J BK. 680 PG. 36
PLAN L.C.C. 29488A
PID 37-75

#253
253 CHANNING RD
N/F
TSANG TE STEPHEN BK. 1161 PG. 109
PLAN L.C.C. 29488A
PID 37-74

#259
259 CHANNING RD
N/F
DEMETROPOULOS, JAMES J
BK. 1211 PG. 55
PLAN L.C.C. 29488A
PID 37-73

#265
265 CHANNING RD
N/F
CORSINO JR TE EDWARD R BK. 678 PG. 194
PLAN L.C.C. 29488A
PID 37-72

#271
271 CHANNING RD
N/F
NOONE TE JOSEPH M
BK. 992 PG. 173
PLAN L.C.C. 29488B
PID 37-71

#277
277 CHANNING RD
N/F
RSON ISAIAH S BK. 1518 PG. 14
PLAN L.C.C. 29488B
PID 37-70

#279
279 CHANNING RD
N/F
SHEA KEVIN M
BK. 23032 PG. 072 PID 37-69

#285
285 CHANNING RD
N/F
HEAYN TE PAUL
BK. 69435 PG. 301 PID 37-68

#291
291 CHANNING RD
N/F
NOONE ELAINE J
BK. 64835 PG. 122
PID 38-45

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 49
PID 35-14-A

RET EXIST FENCE
RET SHED
APPROX LIMIT OF GRADING (TYP)
PROP GRASS SWALE 935+73 TO 951+57 LT
PROP PRIVACY SCREEN STA 947+35 TO 948+16 LT
PROP CLEARING AND GRUBBING 945+25 TO 951+15 LT
PROP LOAM & SEED SHOULDER
PROP 12' HMA SHARED-USE PATH
PROP LOAM AND SEED
APPROX LIMIT OF CLEARING AND GRUBBING
BELMONT CITIZENS FORUM
PROP TIMBER RAIL
PROP CLEARING AND GRUBBING 945+25 TO 951+15 LT
RET FENCE
BELMONT COMMUNITY PATH CONST
PROP LOAM AND SEED
PROP TEMP EASEMENT
PROP TEMP CONST FENCE
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
PROP CLF 933+68 TO 959+30 RT
PROP TEMP EASEMENT
PROP PERM EASEMENT
PROP LOAM AND SEED
REM EXIST ABAN RAIL
PROP 40' SLIDING GATE 951+06 TO 951+46
PROP GRASS SWALE 935+73 TO 951+57 LT
PROP CLF 933+68 TO 959+30 RT
PROP PERM EASEMENT
PC +62.84
PT +97.51
PC +44.48
946 947 948 949 950 951
308 307 306 305 304 303 302
MBTA FITCHBURG LINE
MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 37
CONTINUED ON SHEET NO. 39

PVI STA = 950+19.16
PVI ELEV = 17.63
A.D. = -0.42%
K = 239.85
100' VC
2638.4' SSD
PVC: 949+69.16
ELEV: 17.98
PVT: 950+69.16
ELEV: 17.06
PROP PATH
EXIST GROUND
-0.71 %
-1.12 %

NAVD 88
BASE ELEV
5.00

	946+00	947+00	948+00	949+00	950+00	951+00
EXIST ELEV	18.9	18.4	17.9	17.7	17.2	17.0	16.4	16.1	15.6	15.0	15.0
PROP ELEV	20.59	20.24	19.89	19.53	19.18	18.82	18.47	18.12	17.74	17.27	16.72

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	39	199
PROJECT FILE NO.	609204		

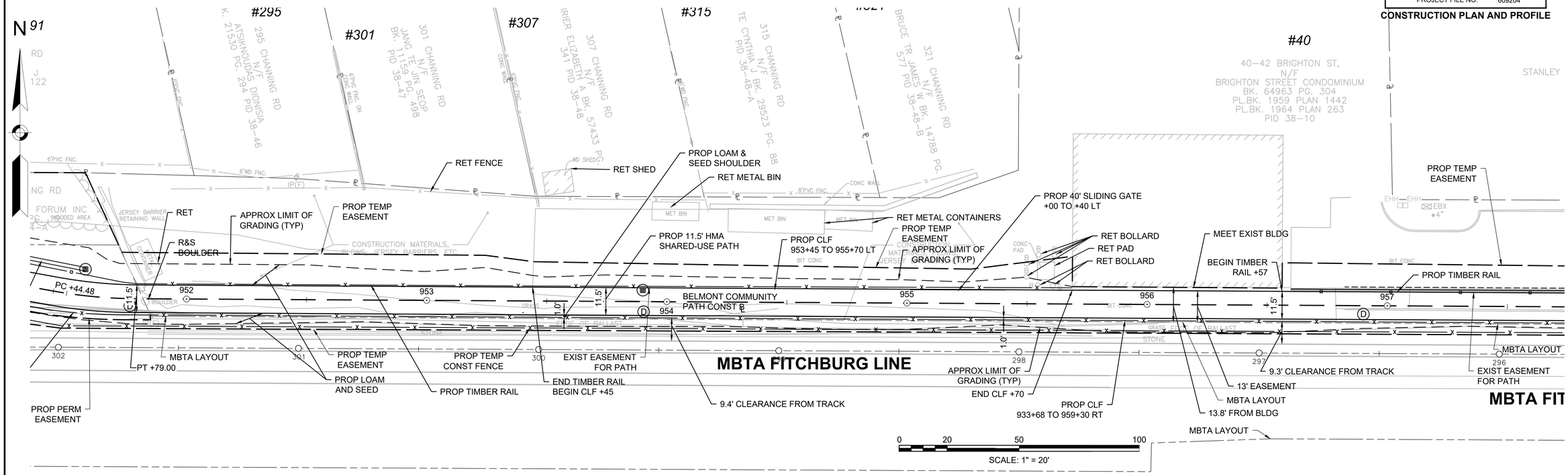
CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT
PROP TIMBER RAIL 956+57 TO 959+33 LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 73



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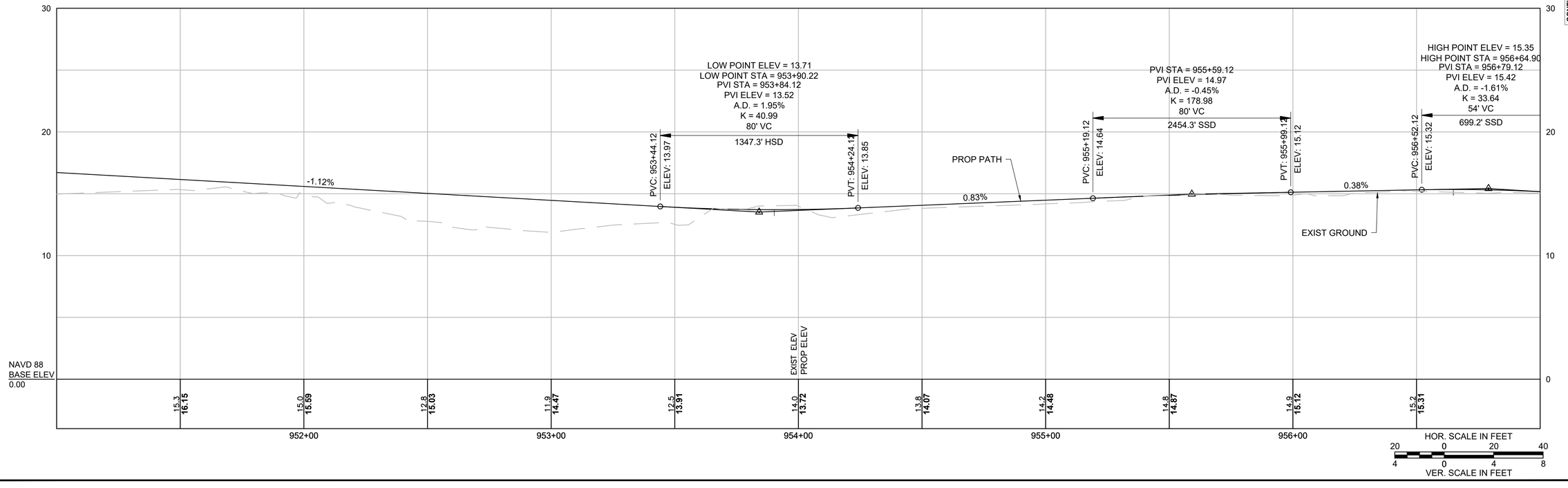

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	40	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PLAN AND PROFILE

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 956+57 TO 959+33 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 74

N

#40
40-42 BRIGHTON ST,
N/F
BRIGHTON STREET CONDOMINIUM
BK. 64963 PG. 304
PL.BK. 1959 PLAN 1442
PL.BK. 1964 PLAN 263
PID 38-10

46 BRIGHTON ST
N/F
STANLEY D. GARFIELD REVOCABLE TRUST OF 2014
BK. 64312 PG. 280
PL.BK. 1945 PLAN 625
PID 38-11

2 STORY CONCRETE BUILDING

46 BRIGHTON ST
N/F
TWO BY TWO REALTY LLC
BK. 44742 PG. 61
PID 39-68

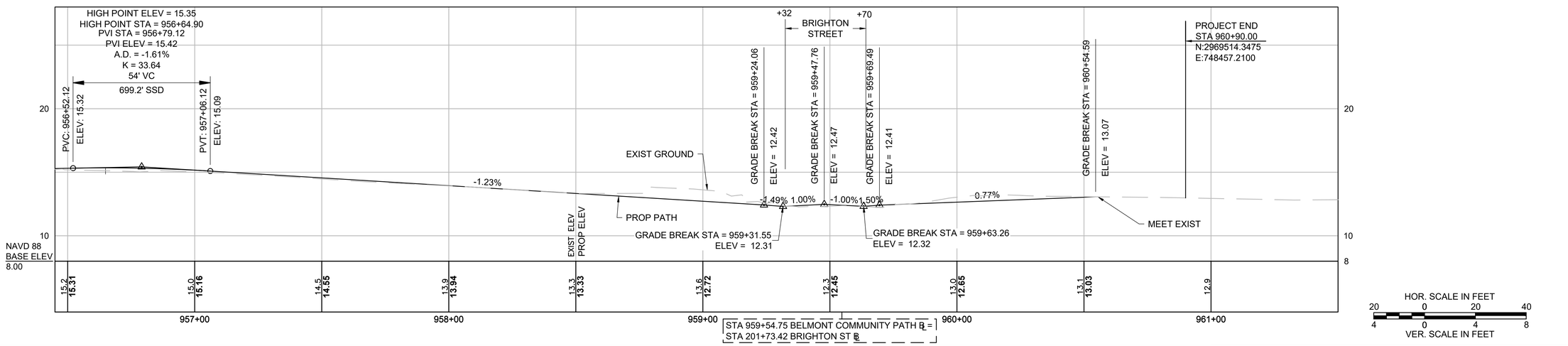
30 BRIGHTON ST
N/F
HITTINGER STREET LLC
BK. 885 PG. 173
PLAN L.C.C. 22622A
PID 38-8

33 BRIGHTON ST
N/F
ANTONELLIS DOMENIC M
BK. 13458 PG. 552
PID 38-2

RET EXIST CURB
RET CURB
BEGIN TIMBER RAIL +57
PROP TIMBER RAIL
PROP TEMP EASEMENT
RET
PROP AGED PINE BARK MULCH
R&R GRAN CURB 956+80 TO 959+25 LT
PROPOSED 11.5' HMA SHARED-USE PATH
PT +26.17
PC +13.87
PROP DECORATIVE RESIN WALK
RET GRAN CURB
SAWCUT
MEET AND MATCH
PROP 2" MILL & OVERLAY
MEET AND MATCH EXIST SW
RET EXIST WALL
RET LIGHT
RET
END TIMBER RAIL +33
LIMIT OF PAVING
STA 202+35
N2969569.2032
E748309.7397
PROP DECORATIVE RESIN WALK
959+53.87 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST
PROP MAST ARM AND FND (TYP)
PROP DECORATIVE RESIN WALK
MEET AND MATCH EXIST SW
PROP CEM CONC SW
PROPOSED 16.0' HMA SHARED-USE PATH
PC +95.16
RET FENCE
PRC +24.89
R&R BOLLARD
PT +54.60
RET CEM CONC BARRIER AND CLF
FITCHBURG CUTOFF
BELMONT COMMUNITY PATH CONST ℄
1.0'
11.5'
PCR#2
PCR#3
PCR#4
PCR#5
RET BOLLARD
REM EX HMA & ISLAND
PROP LOAM & SEEDING
SAWCUT
MEET EXIST PATH
PROJECT END
STA 960+90
N2969514.3844
E748458.0940
RET FENCE
PROP PED RAIL
ROAD GATE
R&S PED RAIL
ROAD GATE
R&R GRAN CURB
201+57 TO 204+86
SAWCUT
MEET AND MATCH
RET RAIL ROAD
TRAFFIC SIGNAL (TYP)
PROP GRAN
CURB (TYP)
PROP CEM
CONC SW
R&R GRAN CURB
200+78 TO 201+11 RT
PROP DECORATIVE RESIN WALK
MEET AND MATCH
EXIST SW
RET GRAN
CURB
SAWCUT
MEET AND MATCH
PROP LOAM AND SEED
9.3' MIN CLEARANCE FROM TRACKS
MBTA LAYOUT
PROP TEMP CONST FENCE
13' EXISTING EASEMENT
EXIST EASEMENT FOR PATH
PROP TEMP EASEMENT
PROP CLF
933+68 TO 959+30 RT
REM UPL
REM SHRUB
R&S STONE WALL
REM LIGHT
RET RAIL ROAD
TRAFFIC SIGNAL
PROP PED POST
AND FND (TYP)
R&S PED RAIL
ROAD GATE
PROP PED RAIL
ROAD GATE
RET
FENCE
PROP CEM
CONC SW
R&R GRAN CURB
200+86 TO 201+20 LT
MEET AND MATCH
EXIST SW
RET GRAN
CURB
PROP 2" MILL & OVERLAY
LIMIT OF PAVING
STA 200+40
N2969379.6790
E748355.6263
MBTA FITCHBURG LINE
BRIGHTON STREET
36"SEWER

CONTINUED ON SHEET NO. 39

0 20 50 100
SCALE: 1" = 20'



HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

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609204_HD(CONST-VIEW).DWG Plotted on ---- ----

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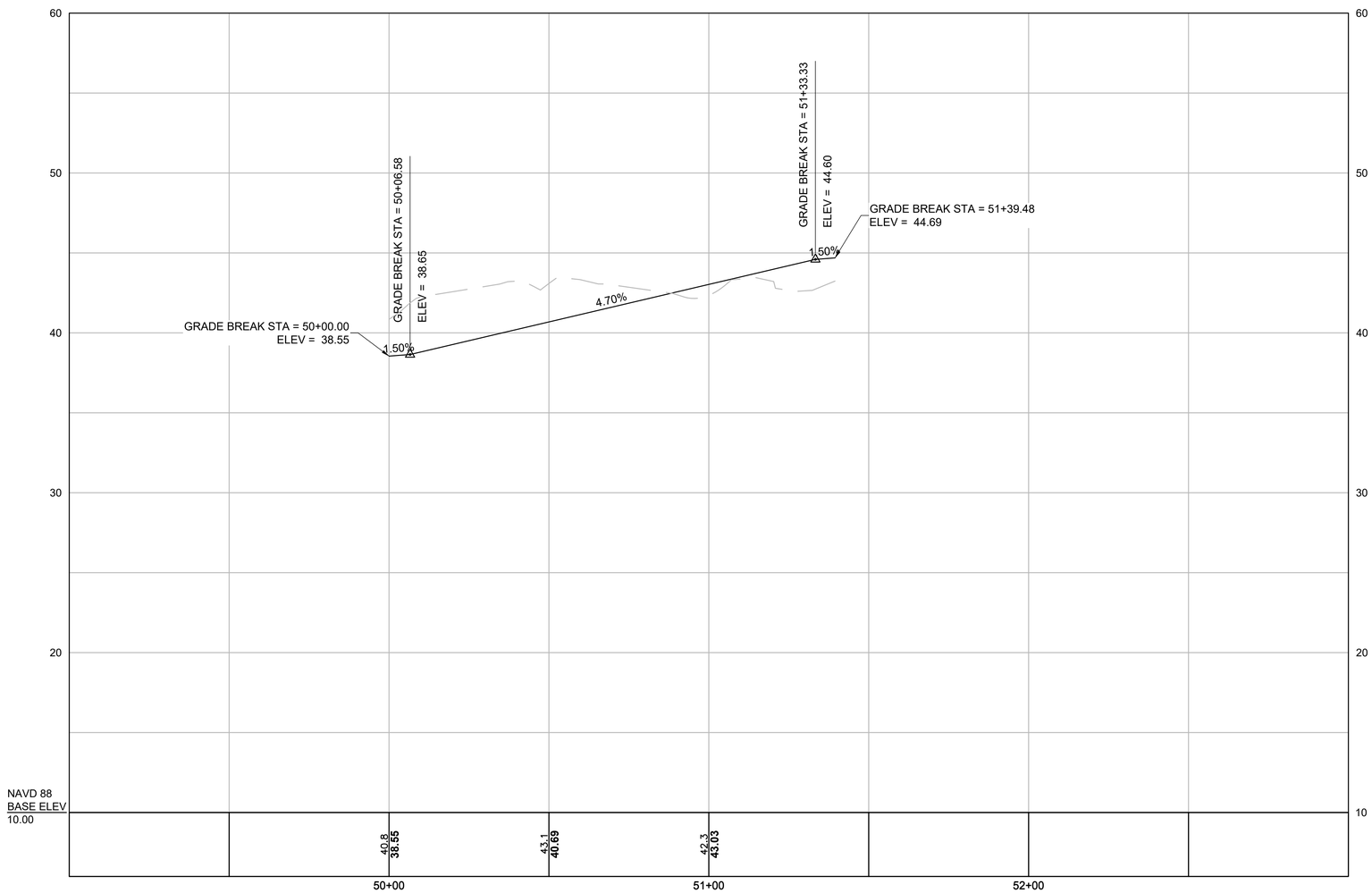
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	41	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

BELMONT STATION RAMP



CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 36

HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

SEE SHEET 33 FOR CONSTRUCTION PLAN

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg ----- Plotted on ---- 609204_HD(CONST-VIEW).DWG

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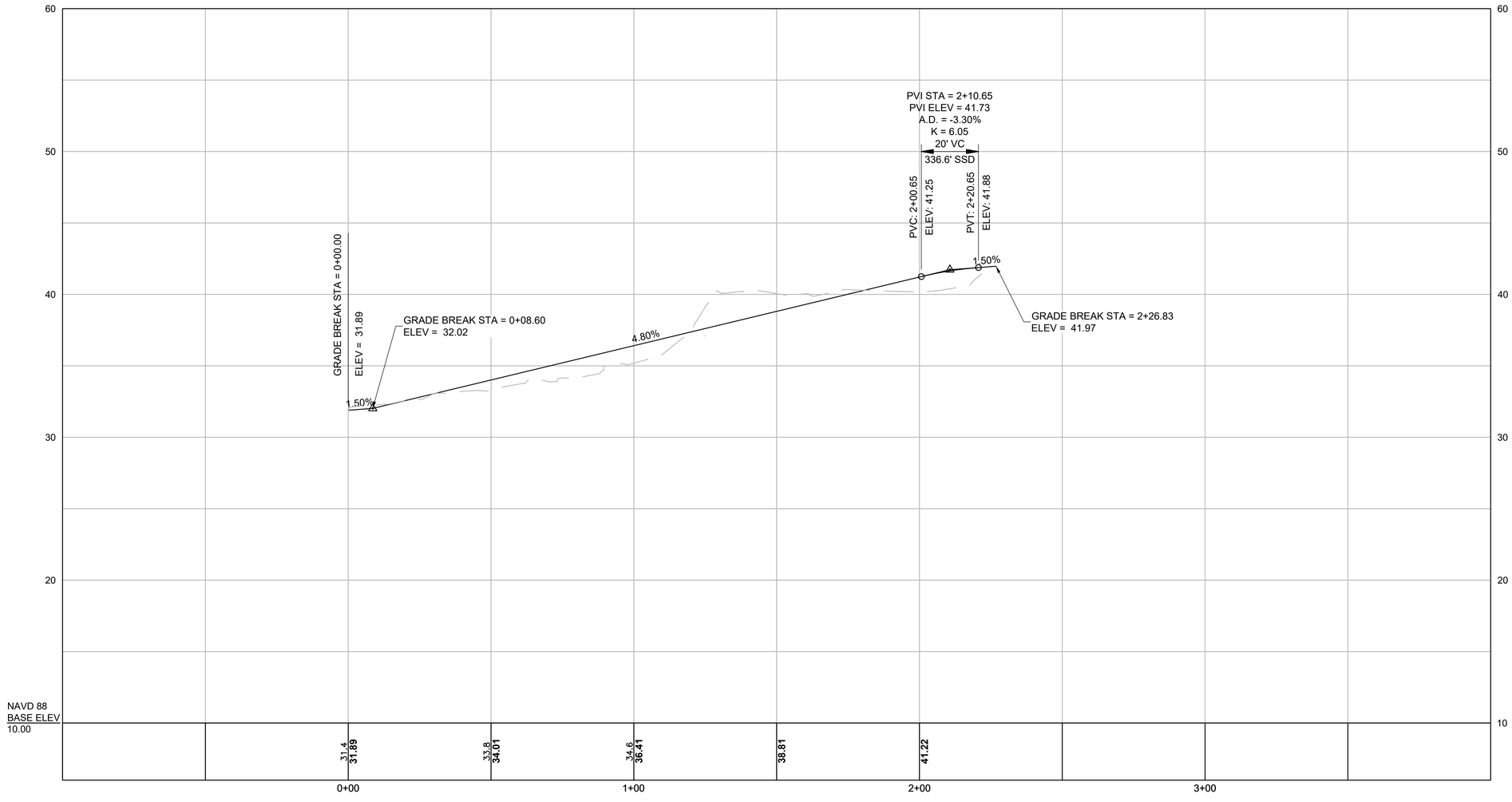
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	42	199
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

7 CHANNING ROAD

CONTINUED ON SHEET NO. 32



CONTINUED ON SHEET NO. 36

HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

SEE SHEET 33 FOR CONSTRUCTION PLAN

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg ----
609204_HD(CONST-VIEW).DWG Plotted on ----
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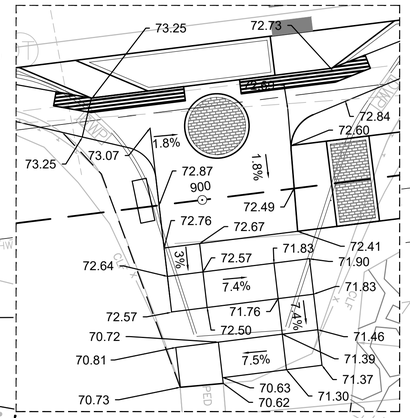
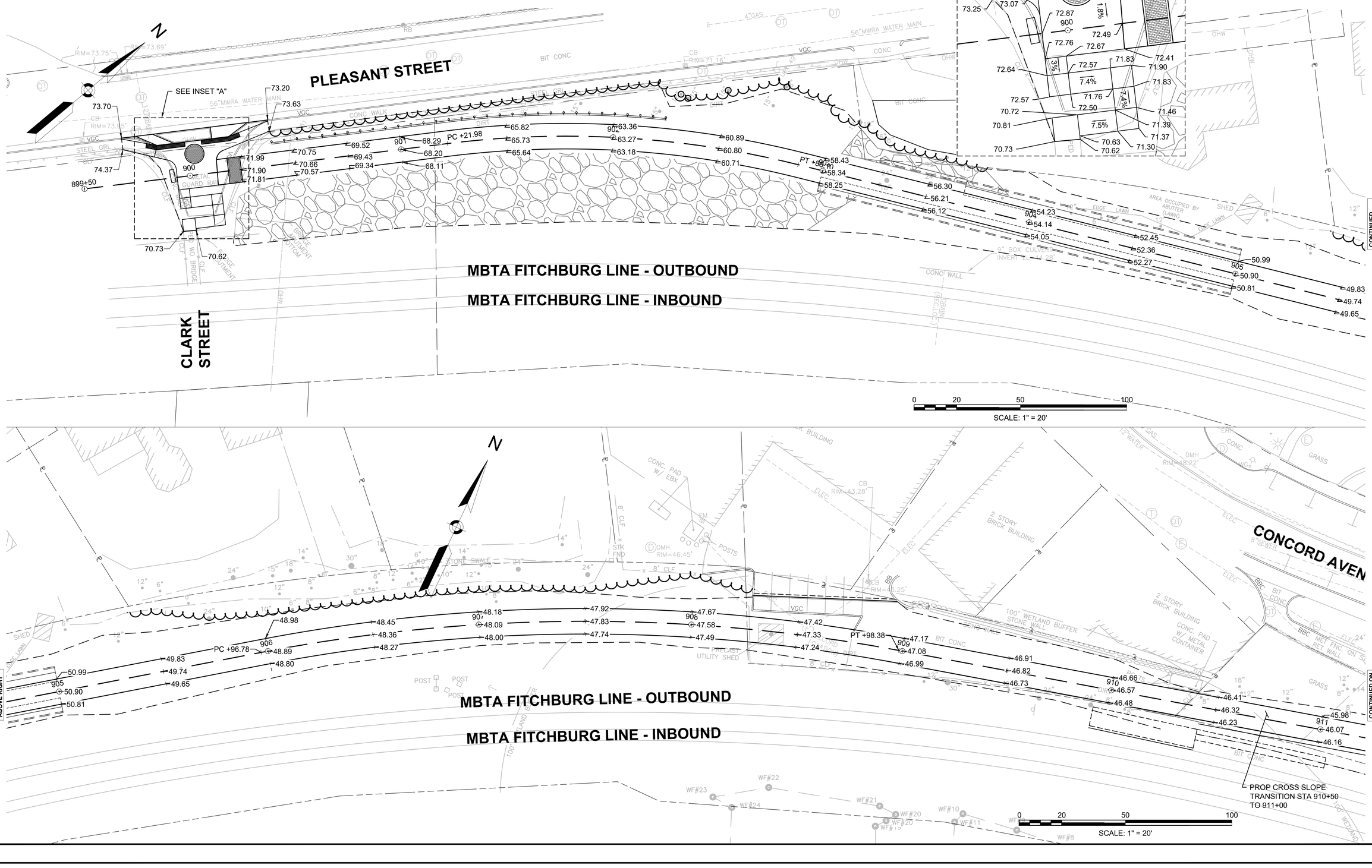
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	43	199
PROJECT FILE NO.	609204		

GRADING PLANS

INSET "A"
SCALE 1"=10'





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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	44	199
PROJECT FILE NO.	609204		

GRADING PLANS

N

CONCORD AVENUE

CONCORD AVENUE

CONTINUED ON SHEET NO. 43

CONTINUED BELOW LEFT

PROP CROSS SLOPE TRANSITION STA 910+50 TO 911+00

PROP CROSS SLOPE TRANSITION STA 915+50 TO 916+00

MBTA FITCHBURG LINE - OUTBOUND

BELMONT STATION

MBTA FITCHBURG LINE - INBOUND

CONCORD AVENUE

MBTA BR. #B-07-002

913+68.72 BELMONT COMMUNITY PATH=
51+39.47 BELMONT STATION RAMP

0 20 50 100

SCALE: 1" = 20'

CHANNING ROAD

N

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 45

PROP CROSS SLOPE TRANSITION STA 917+00 TO 917+50

PROP CROSS SLOPE TRANSITION STA 915+50 TO 916+00

916+87.49 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD

916+87.53 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 12/17/2025 2:43 PM

609204_HD(GRAD).DWG Plotted on Dec-25 2:43 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	45	199
PROJECT FILE NO.	609204		

GRADING PLANS

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CONTINUED ON SHEET NO. 44

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N

BLDG BLDG BLDG BLDG WF WF WIRE FN PINE" CLF CLF WF WF WF CLF 14" 12" 12"

38.68 38.77 38.86 38.33 38.42 922 38.51 37.99 38.08 38.17 37.64 923 37.73 37.82 37.30 37.39 37.48 36.95 924 37.04 37.13 36.60 36.69 PC +51.17 36.78 +62.99 36.26 925 36.44 PC +01.35 36.35 +13.77 35.91 36.00 L PILE 36.09 35.56 926 35.74 35.65 35.18 35.36 35.27 34.30 927 34.48 34.39

RAILROAD TIE STOCKPILE DIRT EDGE OF BALLAST STONE GREASER STAKE AND NAIL STONE DIRT EDGE OF BALLAST STAKE AND NAIL STONE

MBTA FITCHBURG LINE - OUTBOUND

RAILROAD BASELINE

MBTA FITCHBURG LINE - INBOUND

Sta. 331 Sta. 330+13.02 (Rec.) 330+11.24 (Calc.) Sta. 330 Sta. 329 Sta.

50.00' (Rec.) 63° (Calc.) 50.00' (Rec.)

N/F MASSACHUSETTS BAY TRANS AUTHORITY ASSESS. MAP 35 – PARCEL ID: 35–39 DEED BK 13117 / PAGE 0113

0 20 50 100

SCALE: 1" = 20'

N

WF CLF WF 14" 24" CLF 6" 12"X2 WF CLF 12" 12" 14" 12 X3 12" 12" 12" 8" 8" 6" 18" 4" 4" 4" 4" 20" 10" 8" 8" 8" 12" 6" 12" 18" 6" 18" 6" 6" 6

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	46	199
PROJECT FILE NO.	609204		

GRADING PLANS

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609204_HD(GRAD).DWG Plotted on Dec-25 2:43 PM

CHANNING ROAD

ALEXANDER AVENUE

ALEXANDER AVENUE

PRIVATE

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

1948 TOWN LAYOUT

1957 TOWN LAYOUT

BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'

INSET

INHABITANTS OF BELMONT
291 CONCORD AVE - BELMONT
ASSESS. MAP 35 - PARCEL ID: 35
DEED BK 5183 / PAGE 20
TOTAL AREA = 56.870± ACRES

CONTINUED ON SHEET NO. 45

CONTINUED ON SHEET NO. 47

CONTINUED ON INSET ABOVE

N

0 20 50 100

SCALE: 1" = 20'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	47	199
PROJECT FILE NO.	609204		

GRADING PLANS

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 12/17/2025 2:44 PM

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CONTINUED ON SHEET NO. 46

CONTINUED BELOW LEFT

N

RIM=18.41
RIM=17.98
PT +59.47
PC +72.90
PT +05.77
PC +35.53
PT +55.48
PT +05.64
PC +85.68
935
936
937
938
939
940
941
942
943
944
945
946
WOODED AREA
6"DRAIN
12"DRAIN
6"VINYL FNC.
GRAVEL
RRS
GRAVEL/DIRT.
STONE
EDGE OF BALLAST
EHH
EDSWITCH
PROPANE TANK
CONC. BLOCK (TYP.)
BOLLARDS (TYP.)
TRSIGNAL TOWER
RAILROAD BASELINE
Sta. 319
Sta. 318
Sta. 317
Sta. 316
Sta. 315
Sta. 314+87
Sta. 314
Sta. 313

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

EX1.2
EX1.3
50.00' (Rec.)
47.00' (Rec.)
45.00' (Rec.)
55.21' (Calc.)
55.12' (Rec.)
6.81'
N63° 35' 07"W
S89° 43' 36"E → 237.30'
2.32'
N30° 45' 53"E
Chainlink Fence HT=10'
TVHH
TRSIG
SIGNAL TOWER
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
ASSESS. MAP 36 – PARCEL ID: 36-1
DEED BK 13117 / PAGE 0113
0 20 50 100
SCALE: 1" = 20'

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 48

6"PVC FNC.
4'CLF
3'WIRE FNC
IP(F)
MULCH
Sta. 313
Sta. 312
Sta. 311
Sta. 310
Sta. 309
Sta. 308
EX1.3
EX1.4
S89° 43' 36"E → 513.50'
100.12'
S86° 51' 51"E
100.12'
N87° 24' 40"E

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	48	199
PROJECT FILE NO.	609204		

GRADING PLANS

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CONTINUED ON SHEET NO. 47

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 49

6"DRAIN
6"PVC FNC
3"WIRE FNC
6"WD FNC
4"CLF
IP(F)
WOODED AREA
GRASS
EDGE OF BALLAST
STONE
GRAVEL
RAILROAD BASELINE

CB 12
R=15.62
I(out)=12.22 (DMH 13)

20.86 20.95 21.04 | 20.50 946 20.59 20.68 | 20.15 20.24 20.33 | 19.80 947 19.89 19.98 | 19.44 19.53 19.62 | 948 19.09 19.18 19.27 | 18.73 18.82 18.91 | 18.38 949 18.47 18.56 | 18.03 18.12 18.21 | 17.65 950 17.74 17.83 | 17.18 17.27 17.36

PT +97.51 951 16.63 16.72 16.81
PC +62.84
PC +44.48 16.24 16.15
PT +79.00 952 15.50 15.59 15.68
953 14.37 14.47 14.55
954 13.64 13.72 13.81
955 14.40 14.48 14.57
956 15.21 15.12 15.04
957 15.08 15.16 15.23
RIM=15.62 16.06
RIM=13.64 13.82 13.91 13.99
RIM=13.77 14.07 14.15 13.98
RIM=15.90 14.94 15.03 15.12
RIM=15.30 15.40 15.31 15.25

Sta. 308 Sta. 307 Sta. 306 Sta. 305 Sta. 304 Sta. 303 Sta. 302 Sta. 301 Sta. 300 Sta. 299

45.00' (Rec.) 50.00' (Rec.) 50.00' (Rec.) 55.04' (Rec.)

N/F
MASSACHUSETTS BAY TRANS AUTHORITY
ASSESS. MAP 36 – PARCEL ID: 36-1
DEED BK 13117 / PAGE 0113

S88° 17' 40"E — 200.06'

Chainlink Fence
Rt. +10'

EX1.4 EX1.5

6"DRAIN 6"PVC FNC 6"WD FNC 6"PVC FNC. CONC WALL 6"PVC FNC ON CONC WALL 4"CLF 6"PVC FNC. 8"PVC FNC. 8"DRAIN

WD SHED
MET BIN
CONC WALL
JERSEY BARRIER RETAINING WALL
METAL CONTAINER
CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.
BIT CONC
CONC PAD
BENCHMARK: TOP COR CNC EL=15.91'
PROP CROSS SLOPE TRANSITION STA 955+00 TO 955+50
2" CPR W OL-B
MAG
EHH

0 20 50 100
SCALE: 1" = 20'

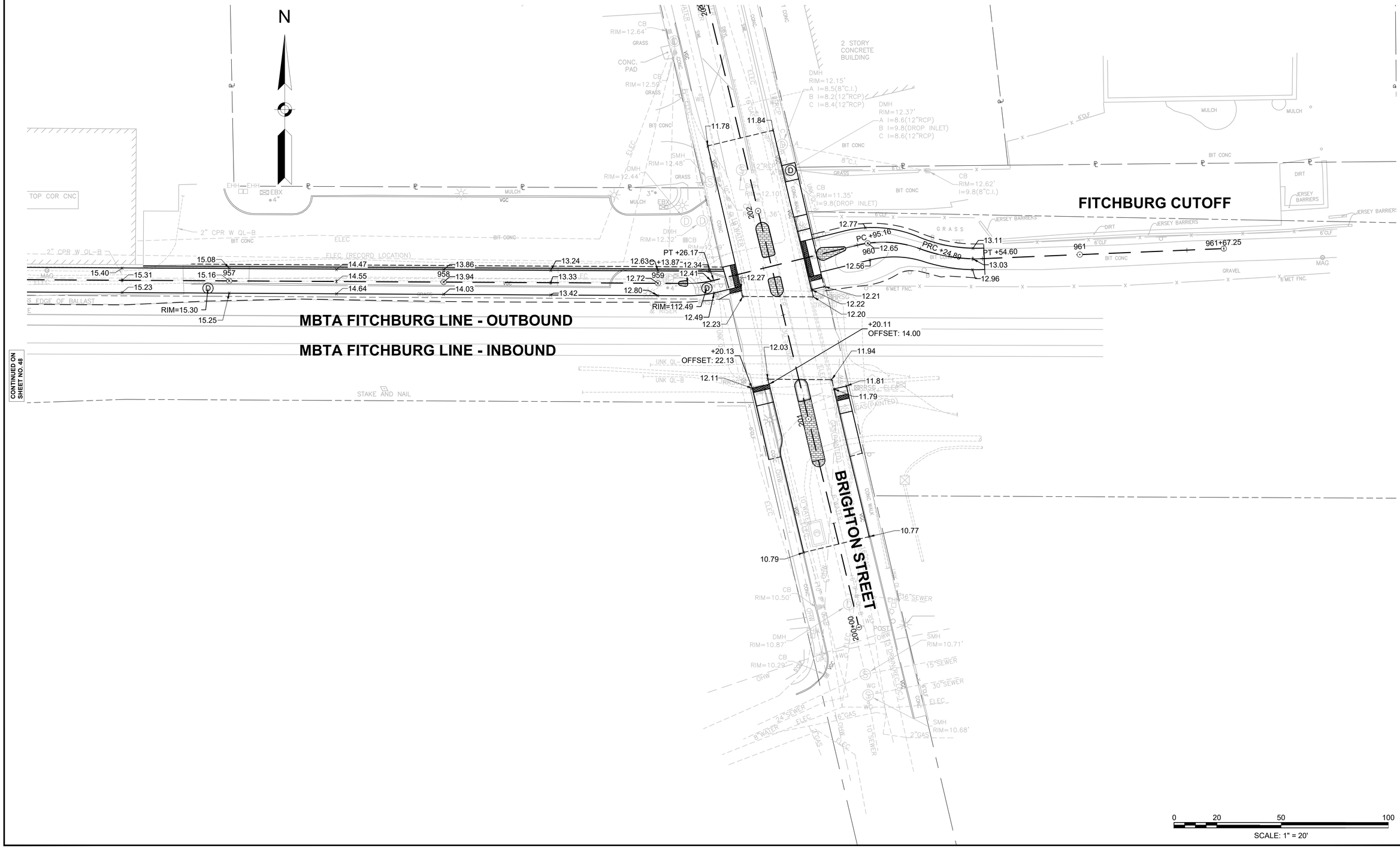
MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	49	199
PROJECT FILE NO.	609204		

GRADING PLANS



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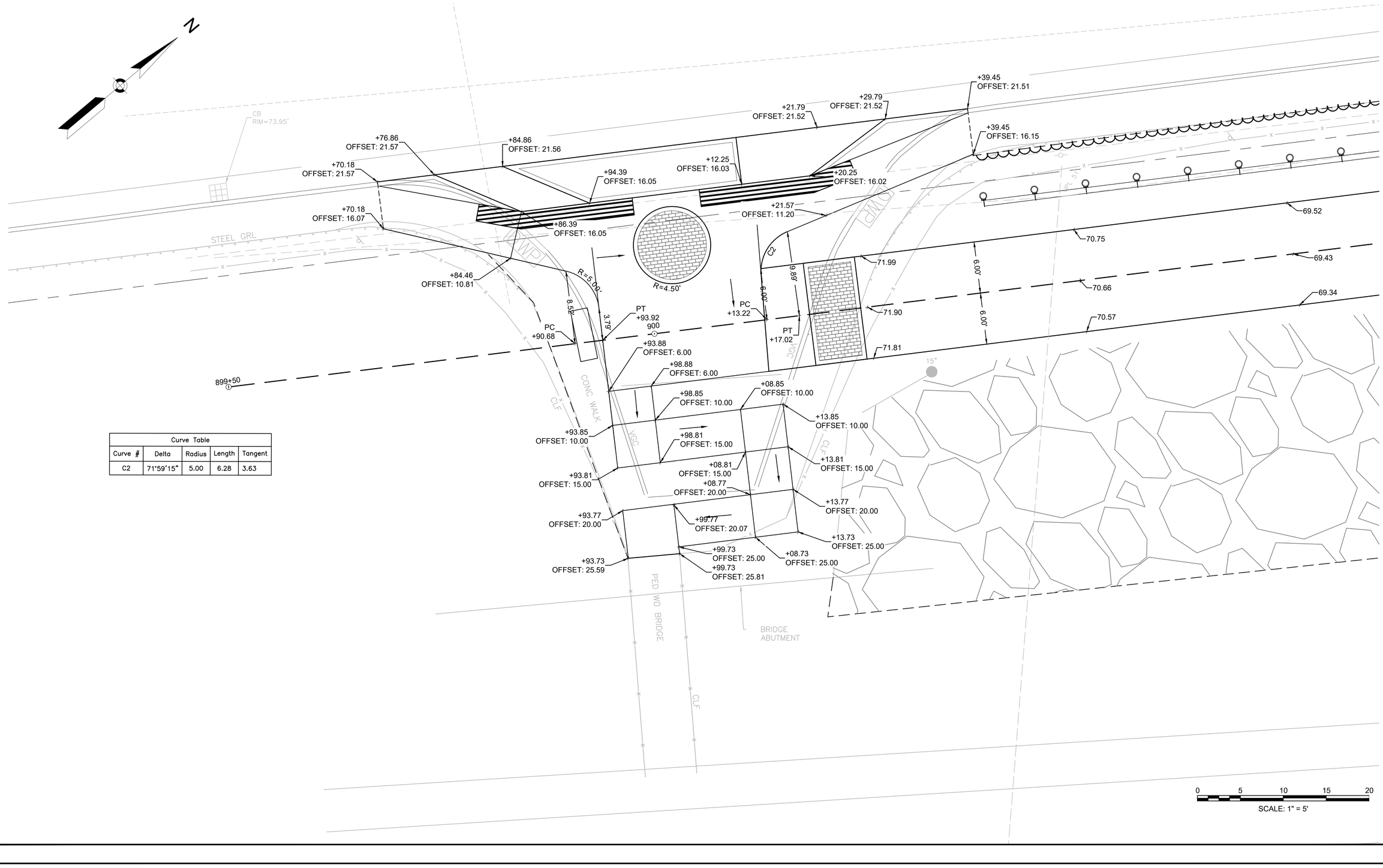
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	50	199
PROJECT FILE NO.	609204		

CURB TIE PLANS



Curve Table				
Curve #	Delta	Radius	Length	Tangent
C2	71°59'15"	5.00	6.28	3.63

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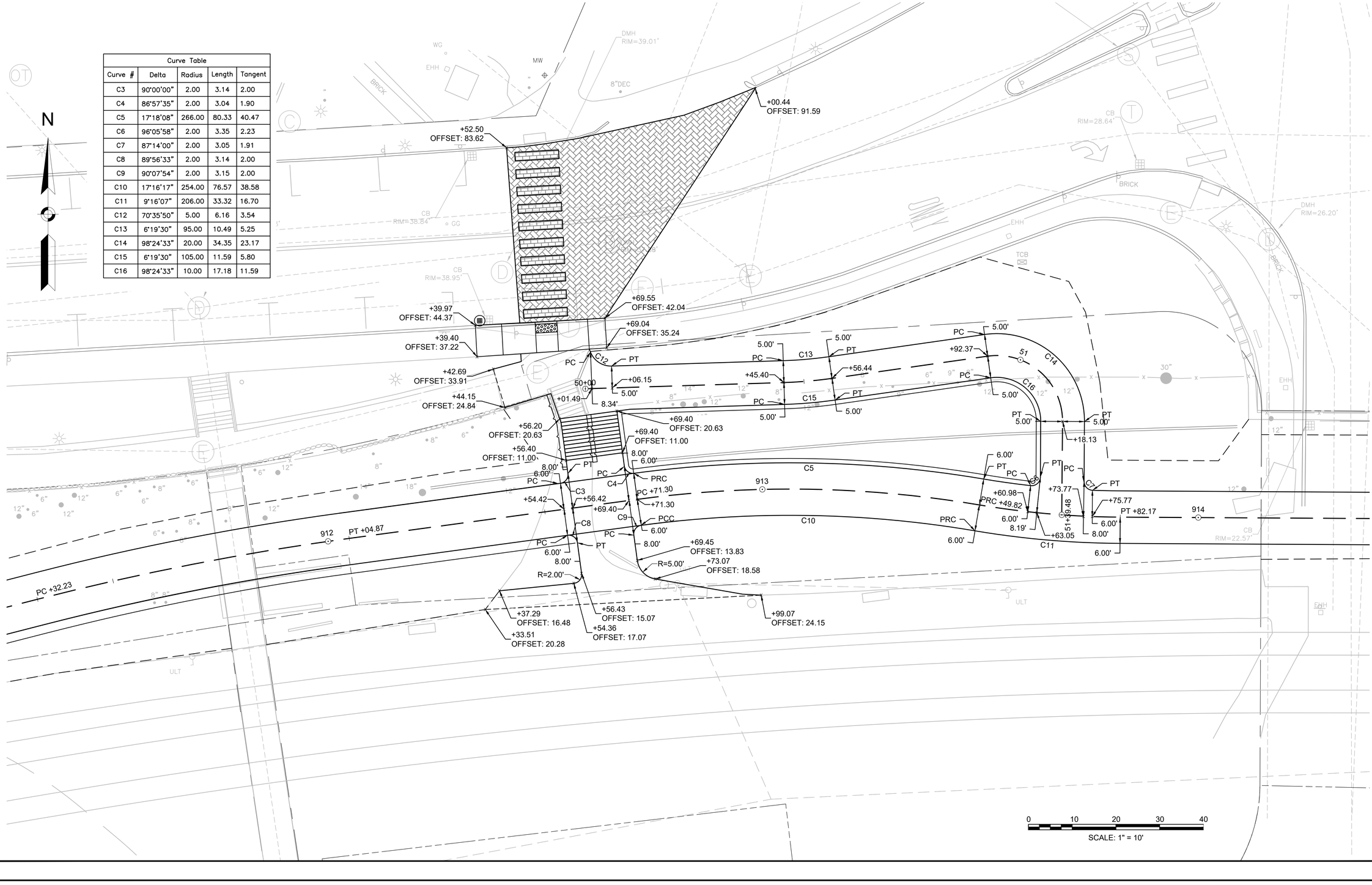
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	51	199
PROJECT FILE NO.	609204		

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C3	90°00'00"	2.00	3.14	2.00
C4	86°57'35"	2.00	3.04	1.90
C5	17°18'08"	266.00	80.33	40.47
C6	96°05'58"	2.00	3.35	2.23
C7	87°14'00"	2.00	3.05	1.91
C8	89°56'33"	2.00	3.14	2.00
C9	90°07'54"	2.00	3.15	2.00
C10	17°16'17"	254.00	76.57	38.58
C11	9°16'07"	206.00	33.32	16.70
C12	70°35'50"	5.00	6.16	3.54
C13	6°19'30"	95.00	10.49	5.25
C14	98°24'33"	20.00	34.35	23.17
C15	6°19'30"	105.00	11.59	5.80
C16	98°24'33"	10.00	17.18	11.59



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	52	199
PROJECT FILE NO.	609204		

CURB TIE PLANS

N

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C17	88°18'52"	10.00	15.41	9.71
C18	90°16'52"	14.00	22.06	14.07
C19	90°16'52"	6.00	9.45	6.03
C41	87°33'04"	10.00	15.28	9.58
C42	9°07'44"	119.00	18.96	9.50
C49	9°07'44"	131.00	20.87	10.46
C50	9°07'18"	256.00	40.76	20.42
C51	9°07'18"	244.00	38.85	19.46

916+87.49 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD

N2969678.7607
E743975.2999

N2969678.6214
E743967.3011

0+00

+91.89

PC +09.88

PT +08.25

PT +32.50

PC +12.59

PT +66.58

PT +12.77

PC +12.82

PT +97.06

PC +68.45

PT +33.06

PT 4.18'

0 8 16 24 32

SCALE: 1" = 8'

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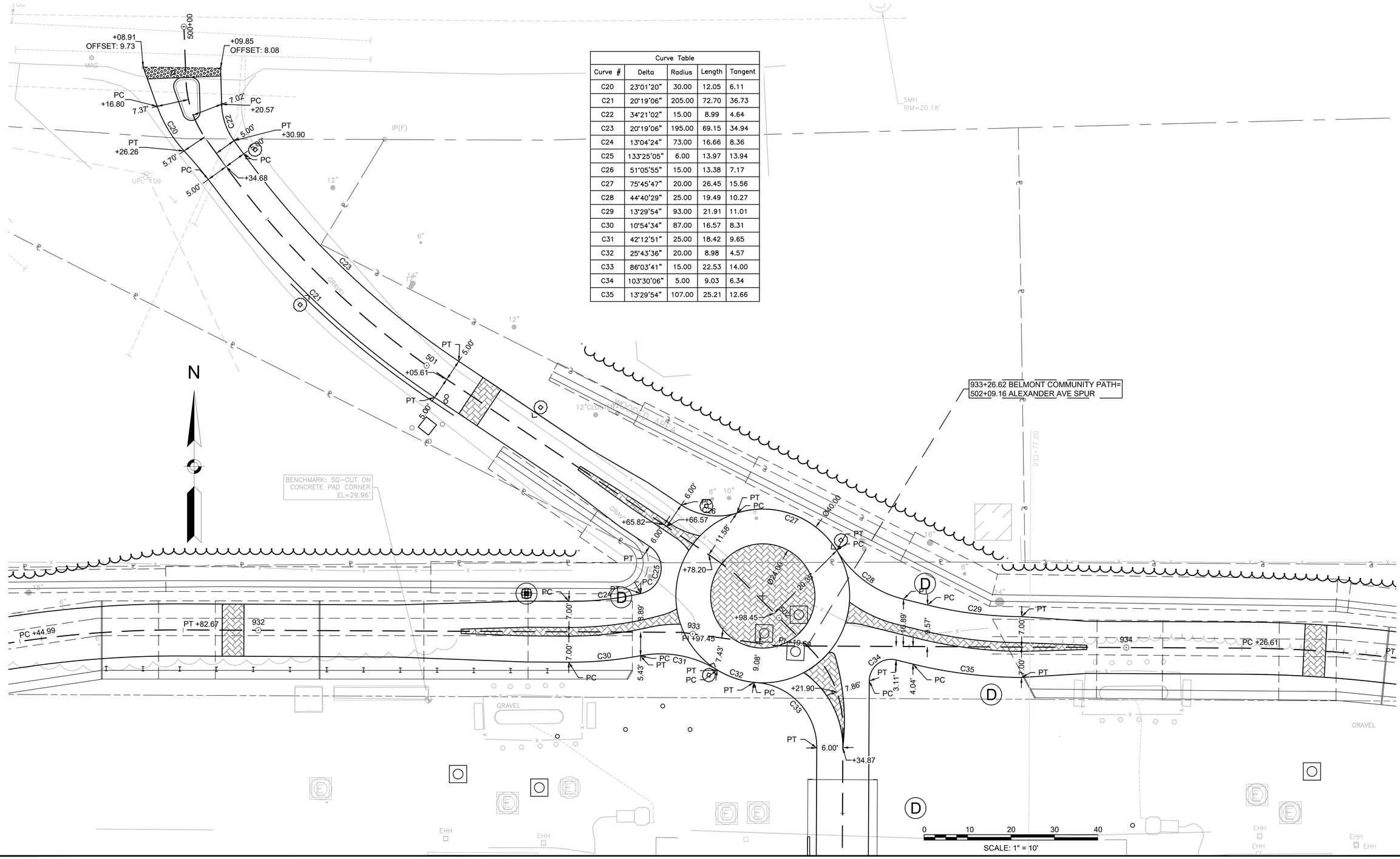
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	53	199
PROJECT FILE NO.	609204		

CURB TIE PLANS

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C20	23°01'20"	30.00	12.05	6.11
C21	20°19'06"	205.00	72.70	36.73
C22	34°21'02"	15.00	8.99	4.64
C23	20°19'06"	195.00	69.15	34.94
C24	13°04'24"	73.00	16.66	8.36
C25	133°25'05"	6.00	13.97	13.94
C26	51°05'55"	15.00	13.38	7.17
C27	75°45'47"	20.00	26.45	15.56
C28	44°40'29"	25.00	19.49	10.27
C29	13°29'54"	93.00	21.91	11.01
C30	10°54'34"	87.00	16.57	8.31
C31	42°12'51"	25.00	18.42	9.65
C32	25°43'36"	20.00	8.98	4.57
C33	86°03'41"	15.00	22.53	14.00
C34	103°30'06"	5.00	9.03	6.34
C35	13°29'54"	107.00	25.21	12.66



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609204_HD(GRAD).DWG Plotted on Dec-25 2:45 PM

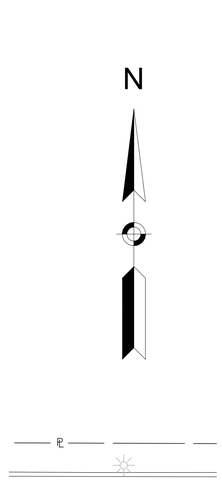
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

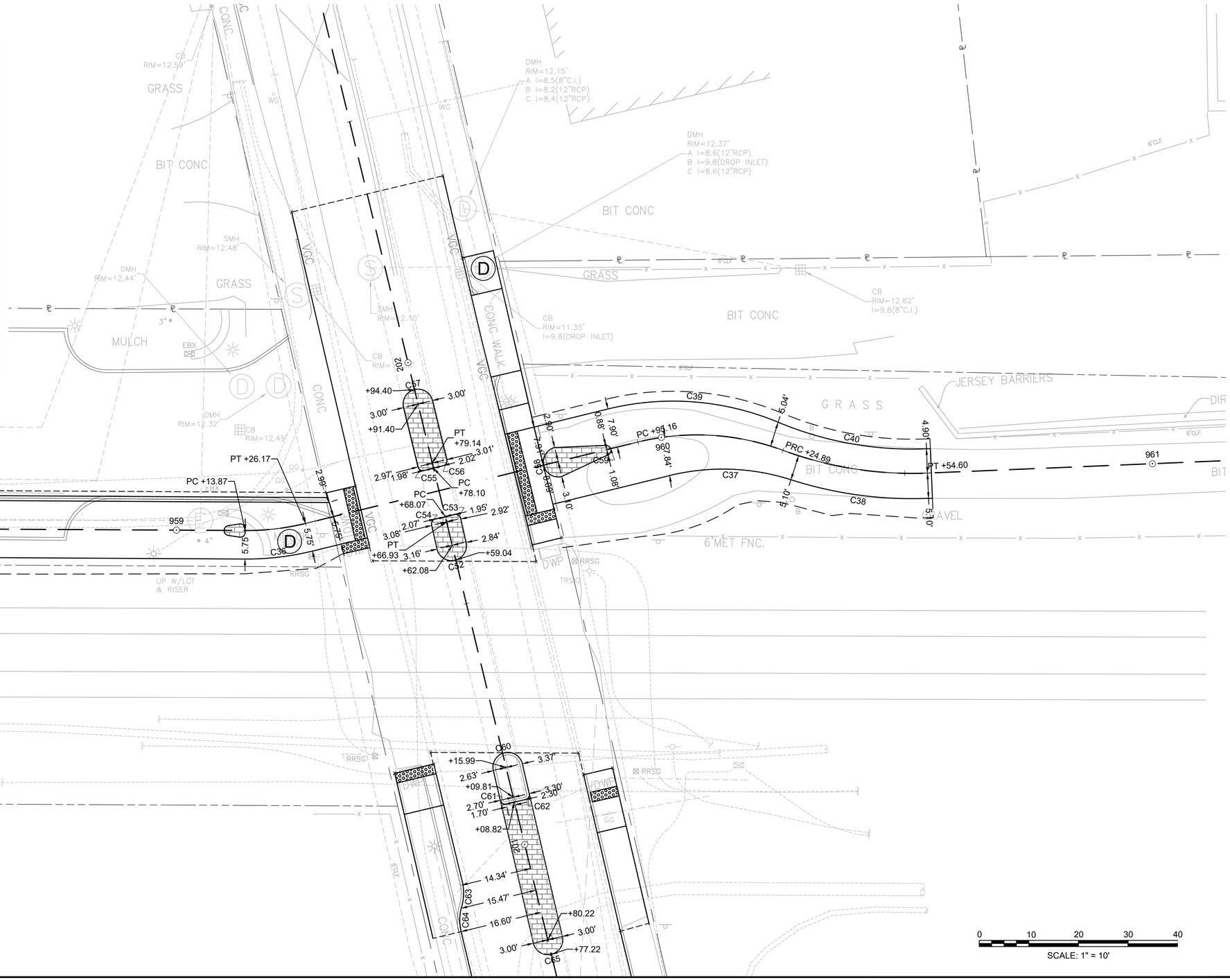
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	54	199
PROJECT FILE NO.	609204		

CURB TIE PLANS

N

Curve Table				
Curve #	Delta	Radius	Length	Tangent
C36	14°05'31"	55.75	13.71	6.89
C37	31°32'09"	45.00	24.77	12.71
C38	20°09'31"	80.00	28.15	14.22
C39	36°27'22"	55.00	35.00	18.11
C40	25°04'44"	70.00	30.64	15.57
C52	180°00'00"	3.00	9.42	INFINITY
C53	90°00'00"	1.00	1.57	1.00
C54	90°00'00"	1.00	1.57	1.00
C55	90°00'00"	1.00	1.57	1.00
C56	90°00'00"	1.00	1.57	1.00
C57	180°00'00"	3.00	9.42	INFINITY
C58	180°00'03"	3.00	9.42	489326.29
C59	157°22'48"	1.00	2.75	5.00
C60	180°00'00"	3.00	9.42	INFINITY
C61	90°00'00"	1.00	1.57	1.00
C62	90°00'00"	1.00	1.57	1.00
C63	26°56'18"	10.00	4.70	2.40
C64	27°13'55"	10.00	4.75	2.42
C65	180°00'00"	3.00	9.42	INFINITY





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UTILITY ENGINEERING ABBREVIATIONS

AATR	ABANDONED ACCORDING TO RECORD	IP	IRON PIPE
ABAND	ABANDONED	LB	LEACHING BASIN
ACP	ASBESTOS CONCRETE PIPE	LP	LOW PRESSURE
AUX	AUXILIARY	MAG	MAG NAIL
BIT	BITUMINOUS	MH	MANHOLE
BM	BENCH MARK	MTL	METAL
CAB	CABINET	OHW	OVERHEAD WIRE
CB	CATCH BASIN	PED	PEDESTRIAN
CH	CHIMNEY	PK	PK NAIL
CI	CAST IRON	PL	PLASTIC
CIP	CAST IRON PIPE	PTC	PIPE TYPE HIGH VOLTAGE POWER CONDUIT
CMH	CABLE MANHOLE	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	PWW	PAVED WATERWAY
CONC	CONCRETE	PZ	PIEZOMETER
CPP	CORRUGATED PLASTIC PIPE	RC	REINFORCED CONCRETE
CSP	CORRUGATED STEEL PIPE	RCP	REINFORCED CONCRETE PIPE
CS	COATED STEEL	RR	RAILROAD
CSS	COMBINED SEWER	RRS	RAILROAD SPIKE
CTV	CABLE TV	SB	STONE BOUND
CULV	CULVERT	SD	STORM DRAIN
DB	DIRECT BURIED	SFM	SEWER FORCE MAIN
DH	DRILL HOLE	SMH	SEWER MANHOLE
DI	DUCTILE IRON	SS	SANITARY SEWER
DIA	DIAMETER	SU	SUMP DEPTH
DICL	DUCTILE IRON CEMENT LINED PIPE	T	TELECOMMUNICATIONS LINE
DMH	DRAIN MANHOLE	TAN	TANGENT
DSK	DISK	TC	TERRA COTTA TILE CONDUIT
E	ELECTRICAL POWER	TEMP	TEMPORARY
EL	ELEVATION	TMH	TELEPHONE MANHOLE
EMH	ELECTRIC MANHOLE	TR	TRAFFIC SIGNAL CONDUIT
EX	EXISTING	TRMH	TRAFFIC CONTROL MANHOLE
FA	FIRE ALARM	TYP	TYPICAL
FBR	FIBER CONDUIT	UNK	UKNOWN UTILITY TYPE
FL	FLOWLINE	UMH	UKNOWN MANHOLE
FO	FIBER OPTIC	VCP	VITRIFIED CLAY PIPE
G	GAS	VLT	VAULT
GIP	GALVANIZED IRON PIPE	W	WATER
GMH	GAS MANHOLE	WD	WOOD
HDPE	HIGH DENSITY POLYETHYLENE	WIP	WROUGHT IRON PIPE
HYD	HYDRANT	WMH	WATER MANHOLE
INV	INVERT		

UTILITY LABELS LEGEND

UTILITY LINES ARE LABELED AS FOLLOWS:

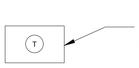
"SIZE/# " - "MATERIAL TYPE" - "UTILITY TYPE" - "UTILITY OWNER" - "ASCE/CI 38-22 QUALITY LEVEL"

EXAMPLE: 12" RCP SD MADOT QL-C

NON-GRAVITY MANHOLES VAULTS ARE LABELED AS FOLLOWS:

"VAULT TYPE / ID No. (WHEN AVAILABLE)"
"INTERNAL VAULT DIMENSIONS" (L' X W' X D') (FT)
"CHIMNEY DEPTH FROM GRADE TO VAULT CEILING" (FT)

EXAMPLE:



OVERHEAD UTILITY LINES ARE LABELED AS FOLLOWS:

UTA "X" - UNDERGROUND TO AERIAL - CONNECTION BETWEEN UNDERGROUND SYSTEM AND AERIAL SYSTEM FOLLOWED BY "X" UTILITY TYPE.

(X)E1 - SINGLE PHASE ELECTRICAL SYSTEM FOR SUPPLY AND DISTRIBUTION

(X)E3 - THREE PHASE ELECTRICAL SYSTEM TYPICALLY FOR DISTRIBUTION

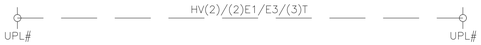
(X)HV(Y) - HIGH VOLTAGE SYSTEM TYPICALLY FOR TRANSMISSION AND CONNECTED TO DISTRIBUTION SYSTEMS AT SUBSTATIONS WHERE (Y) REPRESENTS NUMBER OF CIRCUITS, SINGLE (1), DOUBLE (2), TRIPLE (3).

(X)GW - GUY WIRE

T - TELEPHONE / DATA / COMMUNICATIONS SYSTEMS. INCLUDES COPPER, FIBER OPTIC, COAX, OR COMBINATION THERE OF.

EXAMPLE:

(2)E1
- OTHER THAN FOR SINGLE INSTANCES, A PRECEDING (X) INDICATES NUMBER OF EACH SYSTEM
(3)T



POLE TAG INFO.. BLOCK
POLE ID# –POLE ID NUMBER
OWNER –POLE OWNER
DIA. –POLE DIAMETER
MATERIAL –POLE MATERIAL TYPE (WOOD, METAL, CONCRETE)
ATMNT. –ATTACHMENTS TO POLE

POLE ATTACHMENTS LEGEND
(X)UTA E –ELECTRIC UNDERGROUND TO AERIAL
(X)UTA T –TELECOMMUNICATIONS UNDERGROUND TO AERIAL
(X)T –TRANSFORMER
(X)LT –LIGHT
(X)GW –GUY WIRE
(X)EM –ELECTRIC METER
(X)W –ELECTRIC SWITCH
(X)OHS –OVERHEAD SIGN
(X)TS –TRAFFIC SIGNAL
(X)EQB –EQUIPMENT BOX

LINE TYPES LEGEND

QUALITY LEVEL B
QUALITY LEVEL C
QUALITY LEVEL D
QL-D|QL-B
QUALITY LEVEL CHANGE
PIPE SIZE CHANGE
PIPE CAP/END
END OF INFORMATION

CABLE TV QL-B
ELECTRIC QL-B
GAS QL-B
STORM DRAIN QL-B
SANITARY SEWER QL-B
TELECOMMUNICATION QL-B
TRAFFIC CONTROL QL-B
UNKNOWN SIGNAL QL-B
WATER QL-B

CABLE TV QL-C
ELECTRIC QL-C
GAS QL-C
STORM DRAIN QL-C
SANITARY SEWER QL-C
TELECOMMUNICATION QL-C
TRAFFIC CONTROL QL-C
UNKNOWN SIGNAL QL-C
WATER QL-C

CABLE TV QL-D
ELECTRIC QL-D
GAS QL-D
STORM DRAIN QL-D
SANITARY SEWER QL-D
TELECOMMUNICATION QL-D
TRAFFIC CONTROL QL-D
UNKNOWN SIGNAL QL-D
WATER QL-D

PIPE AND DUCT BANK LEGEND:

DUCTS	DIMENSIONS									
	3" DUCTS		3 1/2" DUCTS		4" DUCTS		4 1/2" DUCTS		5" DUCTS	
	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches	A Inches	B Inches
2 x 1	15	10	16	10	17	11	18	11	19	12
3 x 1	20	10	21	10	23	11	24	11	26	12
4 x 1	25	10	25	10	27	11	31	11	33	12
2 x 2	15	15	16	16	17	17	18	18	19	19
2 x 3	15	20	16	21	17	23	18	24	19	26
3 x 2	20	15	21	16	23	17	24	18	26	19
2 x 4	15	25	16	27	17	25	18	31	19	33
4 x 2	25	15	25	16	27	17	31	18	33	19
3 x 3	20	20	21	21	23	23	26	24	26	26
5 x 2	30	15	32	16	35	17	37	18	40	19
2 x 5	15	30	16	32	17	35	18	37	19	40
3 x 4	20	25	21	27	23	25	24	31	26	33
4 x 3	25	20	25	21	27	23	31	24	33	26
6 x 2	35	15	38	16	41	17	44	18	47	19
2 x 6	15	35	16	38	17	41	18	44	19	47
2 x 7	15	40	16	43	17	47	18	50	19	54
14 DUCTS	20	30	21	32	23	35	24	37	26	39
14 DUCTS	25	25	27	27	29	29	31	31	33	33
5 x 3	30	19	21	32	23	35	24	37	26	40
3 x 5	19	30	32	21	35	23	37	24	40	26
4 x 4	25	25	27	27	27	29	31	31	33	33
2 x 8	15	45	16	49	17	53	18	57	19	61

METHOD FOR CALCULATING SIZE OF LARGER DUCTS:

(SIZE OF DUCT) X (NUMBER OF DUCTS)
(A) (B)

[(A+1/2") X B] + [(B-1) X 1 1/2") + 6"

ROUND DIMENSIONS UP TO NEAREST INCH

UTILITY SYMBOLS LEGEND

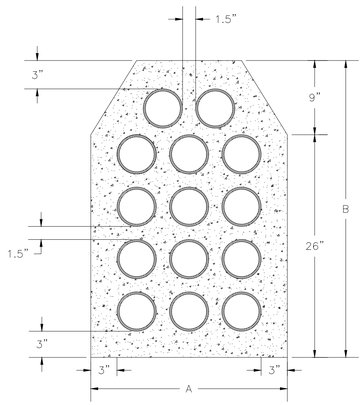
ELECTRICAL / TRAFFIC CONTROL
ECBX ELECTRIC CONTROL BOX
EHH ELECTRIC HAND HOLE
EMBX ELECTRIC METER BOX
EMH ELECTRIC MANHOLE
EMP ELECTRIC METER PIT
EMRK ELECTRIC UTILITY WITNESS MARKER
EPED ELECTRIC PEDESTAL
GA UTILITY POLE GUY WIRE ANCHOR
MBTA MBTA ELECTRICAL MANHOLE
PTCBX HIGH VOLTAGE PTC TEST BOX
TRANS ELECTRIC TRANSFORMER
PEDSIG TRAFFIC PEDESTRIAN SIGNAL
TRCBX TRAFFIC CONTROL BOX
TRHH TRAFFIC HAND HOLE
TRSIG TRAFFIC SIGNAL
TRPED TRAFFIC PEDESTAL
LP LIGHT POLE
UP UTILITY POLE
ULP UTILITY LIGHT POLE
UPBX POLE W/ EMERGENCY PULL BOX

DRAIN / SEWER
AD AREA DRAIN
CB CATCH BASIN
CB CATCH BASIN "D" GRATE
CB CATCH BASIN ROUND COVER
DCO DRAIN CLEAN OUT
DLB DRAIN LEACHING BASIN
DMH DRAIN MANHOLE
CSMH COMBINED SEWER MANHOLE
SCO SEWER CLEAN OUT
SMH SEWER MANHOLE
SMRK SEWER UTILITY WITNESS MARKER
SSAV SEWER AIR RELEASE VALVE
SSO SEWER FORCE MAIN VALVE
SVENT SEWER VENT PIPE

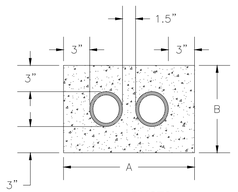
GAS / FUEL OIL / STEAM
FMRK FUEL UTILITY WITNESS MARKER
FOGV FUEL GATE VALVE
FOH FUEL HYDRANT
GDG GAS DIVISION GATE
GG GAS GATE
GGD GAS GATE DRIP
GSO GAS SERVICE GATE
GM GAS METER ABOVE GROUND
GMH GAS MANHOLE
GMP GAS METER PIT
GMRK GAS UTILITY WITNESS MARKER
GTB GAS MAIN TEXT BOX
GVENT GAS VENT PIPE
GTGV GAS GATE VALVE
STMH STEAM MANHOLE

CABLE TV / TELECOMMUNICATION
5G PED 5G WI-FI SIGNAL POLE
TCAB TELEPHONE CABINET
THH TELEPHONE HAND HOLE
TMH TELEPHONE MANHOLE
TMRK TELECOMMUNICATION WITNESS MARKER
TPED TELEPHONE PEDESTAL
FAMH FIRE ALARM MANHOLE
CMH CABLE TV MANHOLE
TVHH CABLE TV HAND HOLE
TVMRK CABLE TV UTILITY WITNESS MARKER
TVPED CABLE TV PEDESTAL

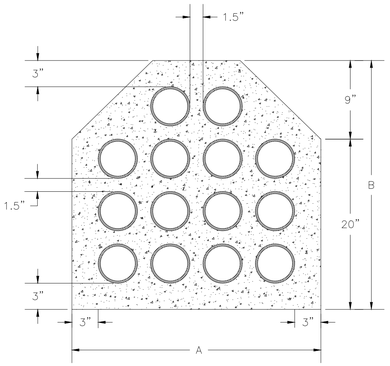
MISC. UTILITY SYMBOLS
UGV UNKNOWN GATE VAVLE
MHU UNKNOWN MANHOLE
TP–# UTILITY TEST PIT
EOI END OF INFORMATION



14 - 4" DUCTS



1x2 - 4" DUCTS



14 - 4" DUCTS

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	55	199
PROJECT FILE NO.	609204		

SUE LEGEND

WATER
HYD FIRE HYDRANT
AC WATER AIR COCK
WCV WATER CHECK VALVE
WDG WATER DIVISION GATE
WG WATER GATE
WFSO FIRE PROTECTION SERVICE VAVLE
WSO WATER SERVICE VALVE
WMH WATER MANHOLE
WMP WATER METER PIT
WMRK WATER UTILITY WITNESS MARKER
PIV POST INDICATOR VAVLE
STP WATER STAND PIPE
WTB WATER MAIN TEST BOX
WVENT WATER VENT PIPE

SURVEY CONTROL MONUMENTS
BM # BENCHMARK
BOUND (CONC, STONE, LAND COURT, ETC.)
DSK DSIK (CA/T, USC&GS, LAND COURT, ETC.)
DH DRILL HOLE
EPLP ESCUTCHEON PIN IN LEAD PLUG
IP IRON PIPE
MAG MAG NAIL
MHB MASSACHUSETTS HIGHWAY BOUND
PHOTO CONTROL – H & V
PHOTO CONTROL – V ONLY
PK PK NAIL
RB REBAR / IRON PIN
RRS RAILROAD SPIKE
SN STAKE & NAIL
TRAVERSE POINT
X–CUT X–CUT

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

MassDOT Massachusetts Department of Transportation Highway Division

REVISIONS

REV.	COMMENTS	DATE

PREPARED BY: OVERLAND ENGINEERING

SCALE: NA FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

DATE: 7/11/25

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	56	199
PROJECT FILE NO.	609204		

SUE NOTES

UTILITY ENGINEERING CONSULTANT:

OVERLAND ENGINEERING, LLC
100 HALLET STREET
BOSTON, MA 02124
PH: 617-265-4547
FAX: 770-565-3815

PROJECT DESCRIPTION:

AN SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE) WAS PERFORMED BY OVERLAND ENGINEERING, LLC AND COMPLETED ON 6/13/25 FOR THIS PROJECT. THE EXISTING OVERHEAD AND UNDERGROUND FACILITIES SHOWN HEREON WERE INCLUDED IN THIS SUE INVESTIGATION. THE PRESENCE OF THESE UTILITY FACILITIES HAS BEEN THOROUGHLY INVESTIGATED.

ALL OTHER EXISTING TOPOGRAPHIC FEATURES DEPICTED HEREON HAVE BEEN REFERENCED FROM A TOPOGRAPHIC / MAPPING SURVEY AND CONTROL PACKAGE PROVIDED BY A GROUND INSTRUMENT SURVEY PERFORMED BETWEEN XXXX X, XXXX AND XXXX X, XXXX BY XXXXXXX.

UTILITY ENGINEERING NOTES:

1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERING'S DOCUMENT ASCE 38-22 "STANDARD GUIDELINE FOR THE INVESTIGATION AND DOCUMENTING EXISTING UTILITIES".
2. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING CONSTRUCTION.
3. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE DEPICTIONS.
4. THE SIZE/TYPE OF FIRE HYDRANT LINES IS ASSUMED TO BE 6" IN DIAMETER THROUGHOUT THE PROJECT LIMITS.
5. UTILITIES RANGING IN SIZE FROM 0.5" - 10" IN DIAMETER OR MINIMUM WIDTH, ARE DEPICTED HEREIN AS SINGLE WIDTH LINE TYPES. UTILITIES RANGING IN SIZE 12" AND ABOVE, ARE DEPICTED WITH MULTI-LINES, THE WIDTH OF WHICH IS BASED ON REVIEW OF RECORDS, PROFESSIONAL JUDGEMENT, OR OTHER INFORMATION. IN SOME INSTANCES, UTILITIES LARGER THAN 1 FOOT MAY BE SHOWN AS SINGLE LINES WITHOUT APPROXIMATE WIDTH AT THE ENGINEERS DISCRETION WHERE UTILITY DENSITY WOULD OTHERWISE PREVENT A CLEAR DEPICTION OF THE SUE INFORMATION.

UTILITY QUALITY LEVEL INFORMATION INDEX (SEE ASCE/CI 38-02):

QUALITY LEVEL D: "QL D". UTILITY INFORMATION PLOTTED ON THE DRAWING BASED SOLELY ON RECORD INFORMATION, INDIVIDUAL RECOLLECTIONS OR THE EXISTENCE OF UTILITY SERVICE. IT SHALL BE NOTED THAT ALL INFORMATION SHOWN (OTHER THAN AT TEST HOLE LOCATIONS, SEE QL A BELOW), INCLUDING BUT NOT LIMITED TO A UTILITIES SIZE, CAPACITY, MATERIAL COMPOSITION, CONDITION OR SERVICE STATUS SHALL BE CONSIDERED QL D EVEN THOUGH THE UTILITY MAY BE PLOTTED AND LABELED AS QL C OR QL B.

QUALITY LEVEL C: "QL C". UTILITY INFORMATION OBTAINED AND CATEGORIZED AS QL D, PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN FIELD VERIFIED, SURVEY LOCATED AND ACCURATELY TRANSPOSED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS. INCLUDED IN THIS CATEGORY AERIAL UTILITY INFORMATION AND UTILITY DEPICTION'S, WHICH IN THE PROFESSIONAL OPINION OF THE SUBSURFACE UTILITY ENGINEER, REPRESENT THE MOST PROBABLE APPROXIMATE HORIZONTAL LOCATION, TYPE AND/OR EXISTENCE OF A UTILITY.

QUALITY LEVEL B: "QL B". UTILITY INFORMATION DERIVED BY ESTABLISHING THE APPROXIMATE SURFACE HORIZONTAL LOCATION OF A UTILITY USING ELECTRONIC METHODS. SAID INFORMATION IS SUBSEQUENTLY FIELD SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS.

QUALITY LEVEL A: "QL A". UTILITY INFORMATION WHICH HAS BEEN VISUALLY VERIFIED, SURVEY LOCATED (BOTH HORIZONTALLY AND VERTICALLY) AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS. THIS IS TYPICALLY SHOWN AS TEST HOLE OR OTHER DIMENSIONED INFORMATION.

UTILITY SUMMARY:

ALL THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE FACILITIES WITHIN THE VICINITY OF THIS PROJECT AT THE TIME OF THE SUE INVESTIGATION. UTILITIES FOUND WITHIN THE PROJECT LIMITS AT THE TIME OF THE SUE INVESTIGATION ARE NOTED FOR EACH UTILITY OWNER LISTED AND ARE SHOWN ON THE PLANS HEREON.

UTILITY OWNER	UTILITY TYPE	CONTACT	ADDRESS	EMAIL	PHONE	ABBREVIATION
Belmont Light & Power	Electric	N/A	40 Prince St, Belmont, MA 02478	Engineering@BelmontLight.com	617-993-2800	BL&P
Belmont DPW	Water	N/A	37 C St, Belmont, MA 02478	publicrecords@belmont-ma.gov	N/A	BDPW
MBTA	Signal	N/A	10 Park Plaza, Suite 3730 Boston, MA 02116	archives@mbta.com	N/A	MBTA
National Grid Gas	Gas	N/A	N/A	gasdatareq@nationalgrid.com	N/A	NGG
Verizon	Telecom	N/A	N/A	mari-ugrecordrequest@verizon.com	N/A	VRZ

1. ALL ELECTRICAL UTILITIES WITHIN THE PROJECT LIMITS OF WORK ARE OWNED AND OPERATED BY BELMONT LIGHTINGB AND POWER UNLESS NOTED OTHERWISE ON THE PLANS HERE ON.
2. ALL GAS UTILITIES WITHIN THE PROJECT LIMITS OF WORK ARE OWNED AND OPERATED BY NATIONAL GRID GAS UNLESS NOTED OTHERWISE ON THE PLANS HERE ON.
3. ALL TELECOMMUNICATION UTILITIES WITHIN THE PROJECT LIMITS OF WORK ARE OWNED AND OPERATED BY VERIZON UNLESS NOTED OTHERWISE ON THE PLANS HERE ON.
4. ALL SIGNAL UTILITIES WITHIN THE PROJECT LIMITS OF WORK ARE OWNED AND OPERATED BY MBTA UNLESS NOTED OTHERWISE ON THE PLANS HERE ON.
5. ALL WATER UTILITIES WITHIN THE PROJECT LIMITS OF WORK ARE OWNED AND OPERATED BY BELMONT DPW UNLESS NOTED OTHERWISE ON THE PLANS HERE ON.

SURVEY CONTROL:

NOT PROVIDED BY SURVEYOR.

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

REVISIONS

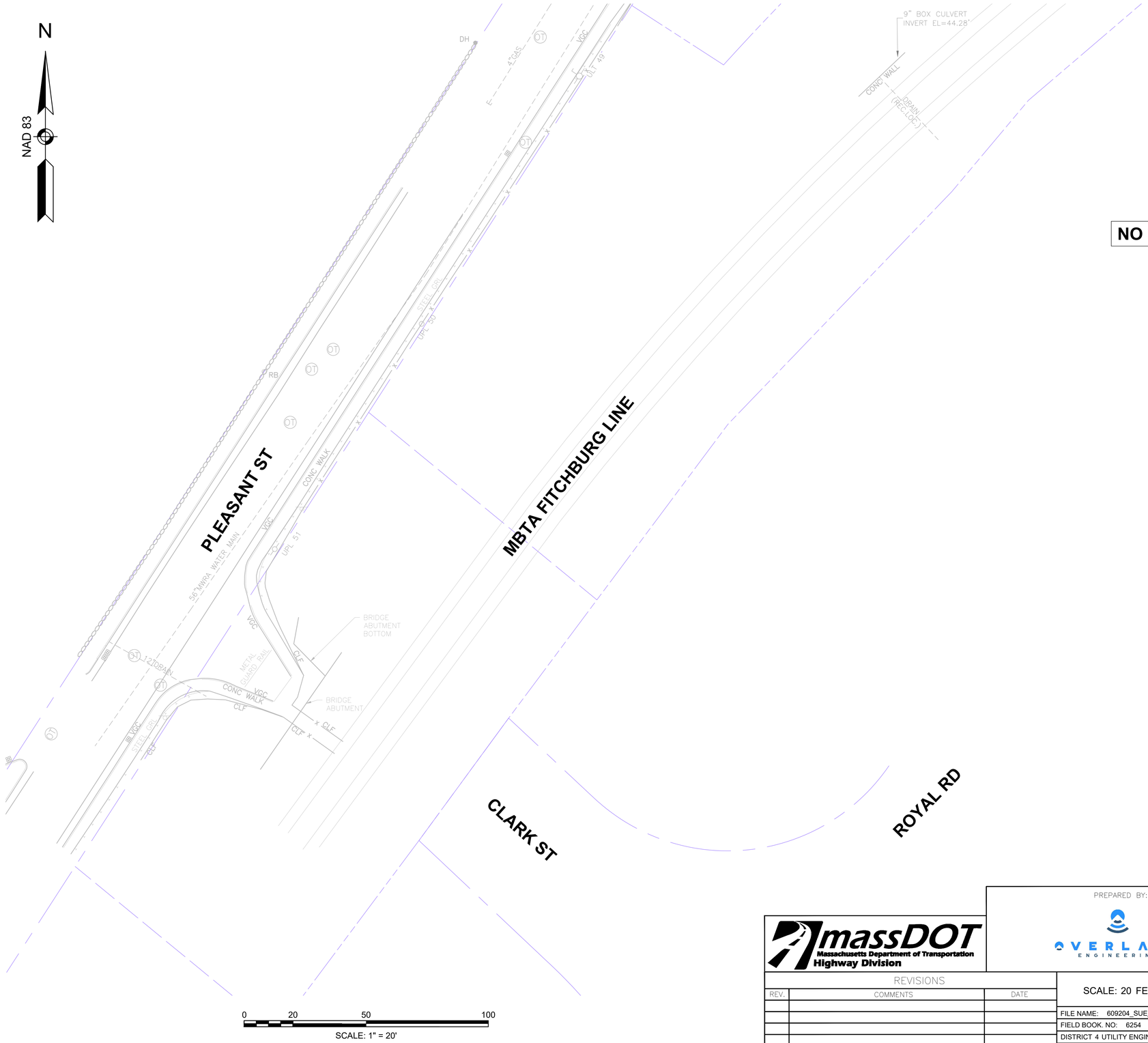
REV.	COMMENTS	DATE

SCALE: NA FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG | PARS. NO: ####
DATE: 7/11/25

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM



BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	57	199
PROJECT FILE NO.	609204		

SUE PLANS

NO SUE THIS SHEET

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

SEE UE SHEET 5 OF 14 FOR CONTINUATION

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG | PARS. NO: ####
DATE: 7/11/25
SHEET 4 OF 14

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	58	199
PROJECT FILE NO.	609204		

SUE PLANS

N

NAD 83

NO SUE THIS SHEET

SEE UE SHEET 4 OF 14 FOR CONTINUATION

SEE UE SHEET 6 OF 14 FOR CONTINUATION

PLEASANT ST

MBTA FITCHBURG LINE

4"PVC INV=44.9

4"PVC INV=44.6

STONE SWALE

CONC. PAD W/ EBX

FM

3 STO BRICK

STK FND

VGC

PRECAST UTILITY SHED

CLF

RR

AREA OCCUPIED BY ABUTTER (LAWN)

EDGE LAWN

SHED

LPD W/ CUE

8"SEWER

4"GAS

6"MWPA WATER MAIN

CONC

VGC

ULT 49

DH

9" BOX CULVERT INVERT EL=44.28'

CONC WALL

DRAIN (RECLOC)

0 20 50 100

SCALE: 1" = 20'

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

massDOT Massachusetts Department of Transportation Highway Division

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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL

609204

REVISIONS

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FIELD BOOK. NO: 6254

DISTRICT 4 UTILITY ENGINEER: RS

FIELD CHIEF: BG PARS. NO: ####

DATE: 7/11/25

SHEET 5 OF 14

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	59	199
PROJECT FILE NO.	609204		

SUE PLANS

SEE UE SHEET 5 OF 14 FOR CONTINUATION

SEE UE SHEET 7 OF 14 FOR CONTINUATION

N

NAD 83

CONCORD AVE

MBTA FITCHBURG LINE

COMMON ST

3 STORY BRICK BUILDING

2 STORY BRICK BUILDING

2 STORY BRICK BUILDING

2 STORY BRICK BUILDING

CONC. PAD W/ METAL CONTAINER

PRECAST UTILITY SHED

STONE WALL

CONC WALL

BRICK TUNNEL

STONE WALL

STONE WALL

GRAN WALL

BBC MET FNC. ON STONE RET WALL

CONC WALLS

CONC. PAD W/ EBX

TRIPOLE ENTRANCE

AREA DRAIN

CONC. COVER

EMH 5.5'X2.2'X5.2' CH=0.9'

TMH Ø2'X1.8' CH=N/A

TMH 8'X3.5'X7.3' CH=2.0'

EMH 10'X4.6'XUNK CH=UNK

MET HR ON CONC WALLS

CONC WALLP

LP

MBTA SIGN

MBTA SIGN

MBTA SIGN

TC W/ SOLAR PANELS

340+61

340

BENCHMARK: CORNER GRANITE BLOCK EL=28.90'

SBDH

EHH

WG

MW

M/L

FM

BB

ULT

ULT

ULT

ULT EO

ICB

GG

CONC

VGC

CLF

DBYL

BBC

DH

OT

T

E

D

C

B

S

P

Z

q

8"GAS	12"WATER	
8"GAS	12"WATER	
8"SEWER	12"DRAIN	2-4" PVC E QL-B (EMPTY)
8"SEWER	18"DRAIN	9-4" TC T QL-B & 12-4" PVC E QL-B
12-4" PVC E QL-B		
2" PVC E QL-B		
12-4" PVC E QL-B		
8-4" PVC E QL-B		
3" IP T QL-B		
4" IP T QL-B		
2" PVC E QL-B		
9-4" TC T QL-B		
12-4" PVC E QL-B		
12-4" PVC E QL-B		
MET RAIL		
2"DRAIN		
6"WATER		
8"SEWER		
8"GAS		
8"SEWER DBYL		
12"WATER		
10"SEWER		
12"DRAIN		
10"WATER		
12"GAS		
3-2" HDPE T QL-B		

0 20 50 100

SCALE: 1" = 20'

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL

609204

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

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FIELD BOOK. NO: 6254

DISTRICT 4 UTILITY ENGINEER: RS

FIELD CHIEF: BG PARS. NO: ####

DATE: 7/11/25

SHEET 6 OF 14

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	60	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

SEE UE SHEET 6 OF 14 FOR CONTINUATION

SEE UE SHEET 8 OF 14 FOR CONTINUATION

N

NAD 83

CHANNING RD

CONCORD AVE

MBTA FITCHBURG LINE

IR CAP 0.4 DOWN

12" WATER

12" JP W QL-B

3" PVC E QL-B
1" IP T QL-B
4" PVC T QL-B

6" GAS

CONC. WALL

VGC

WSO

UP

UPL UE

EMH
ø2'X1.7'
CH=N/A

2-4" PVC E QL-B
IP W QL-B
2-1.5" PVC T QL-B
4" PVC E QL-B

30" SEWER

20" MWRA WATER MAIN

6" DRAIN

8" GAS

12" WATER

CONC

CONC RAMP

4.5' MET FNC ON MULCH

CONC WALL

3 STORY BRICK/WOOD BUILDING

LP

1.5" PVC T QL-B

CONC. WALL

E QL-B

4" PVC E QL-B

1 STORY BRICK BUILDING

BRICK WALL

BRIDGE RET WALL

1 STORY BANK BRICK BUILDING

BUILDING OVERHANG

CONC. PAD

EMH

VINYL FNC.

BROKEN WIRE FNC.

IP(F)

WD SHED

BLDG

WF

RRS

GM

GG

EHH

THH

STAKE AND NAIL

3-2" HDPE T QL-B

MET. RAIL ON CONC. WALL "TOP TUNNEL"

PC
+14.05

339

338

337

336

335

334

0 20 50 100

SCALE: 1" = 20'

massDOT
Massachusetts Department of Transportation
Highway Division

PREPARED BY:

OVERLAND ENGINEERING

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####
DATE: 7/11/25
SHEET 7 OF 14

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	61	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:15 PM

N

NAD 83

FARM RD

IP ANGLE" IRON

CHANNING RD

SEE UE SHEET 7 OF 14 FOR CONTINUATION

SEE UE SHEET 9 OF 14 FOR CONTINUATION

IP(F) IR(F) IR(F)

WIRE FNC. BLDG BLDG BLDG BLDG WIRE FNC. WF VF CLF VF WF CL

GRAVEL PILE

RRS

EMH
6'X4'X8'
CH=2.0'

3-2" HDPE T QL-B

GREASER

STAKE AND NAIL

2-4" PVC E QL-B

STAKE AND

3-2" HDPE T QL-B

333 332 331 4-4" PVC E QL-B 330 329 328

MBTA FITCHBURG LINE

UP UP UP

0 20 50 100

SCALE: 1" = 20'

massDOT
Massachusetts Department of Transportation
Highway Division

PREPARED BY:
OVERLAND ENGINEERING

REVISIONS		
REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL
609204

DATE: 7/11/25 SHEET 8 OF 14

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	62	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

N

NAD 83

⚠SIZE UNKNOWN, NO RECORD AVAILABLE

ALEXANDER AVE

CHANNING RD

ULT 130-15
MDHL SB FLUSH
12"DRAIN
6"WATER
6"GAS
8"SEWER
18"DRAIN
12"WATER
6"GAS
30"SEWER
IR(F)
ULT 30-5.2
WSO
CONC
SPK
IP W QL-B
IP(F)
2-2" PVC T QL-B
UP
UPL T09
UNK QL-B
8"WATER
8"DRAIN
8"SEWER
6" PL G QL-B
WG
12" IP W QL-B
4" PVC T QL-B
4" PVC E QL-B
EMH
LP
GG
6" PL G QL-B
UNK QL-B
MAG

BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'

7'VINYL FNC.

SEE UE SHEET 8 OF 14 FOR CONTINUATION

SEE UE SHEET 10 OF 14 FOR CONTINUATION

CLF
WF

MBTA FITCHBURG LINE

327
326
324
323
322

PROPANE TANK
1.25" PVC G QL-B
EMH 6'X4'X7.6' CH=1.6'
EMH MBTA 3'X3'X5.3' CH=5.3'
EMH MBTA 4'X4'X5.2' CH=1.2'
EMH MBTA 4'X4'X5.2' CH=1.2'
EMH MBTA 4'X4'X5.1' CH=1.1'
EMH MBTA 4'X4'X5.1' CH=1.1'
EMH MBTA 4'X4'X5' CH=1.0'
2-4" PVC E QL-B
3-2" HDPE T QL-B
STAKE AND NAIL
TRSIG
EMH MBTA 3'X3'X5.5' CH=1.5'
6-4" PVC SIGNAL QL-B
4-4" PVC SIGNAL QL-B
9-4" PVC SIGNAL QL-B
4" PVC SIGNAL QL-B
2" DB SIGNAL QL-B
1.25" PVC SIGNAL QL-B
2-2" PVC SIGNAL QL-B
2" PVC E QL-B
ECBX
EHH
MBTA SIGNAL CONTROL HOUSE
1" PVC SIGNAL QL-B
2" PVC SIGNAL QL-B
SWITCH
CONC PAD
EBX ON CONC PAD
UP
UNK QL-B

0 20 50 100
SCALE: 1" = 20'

PREPARED BY:
OVERLAND ENGINEERING

MassDOT Massachusetts Department of Transportation Highway Division

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

DATE: 7/11/25 SHEET 9 OF 14

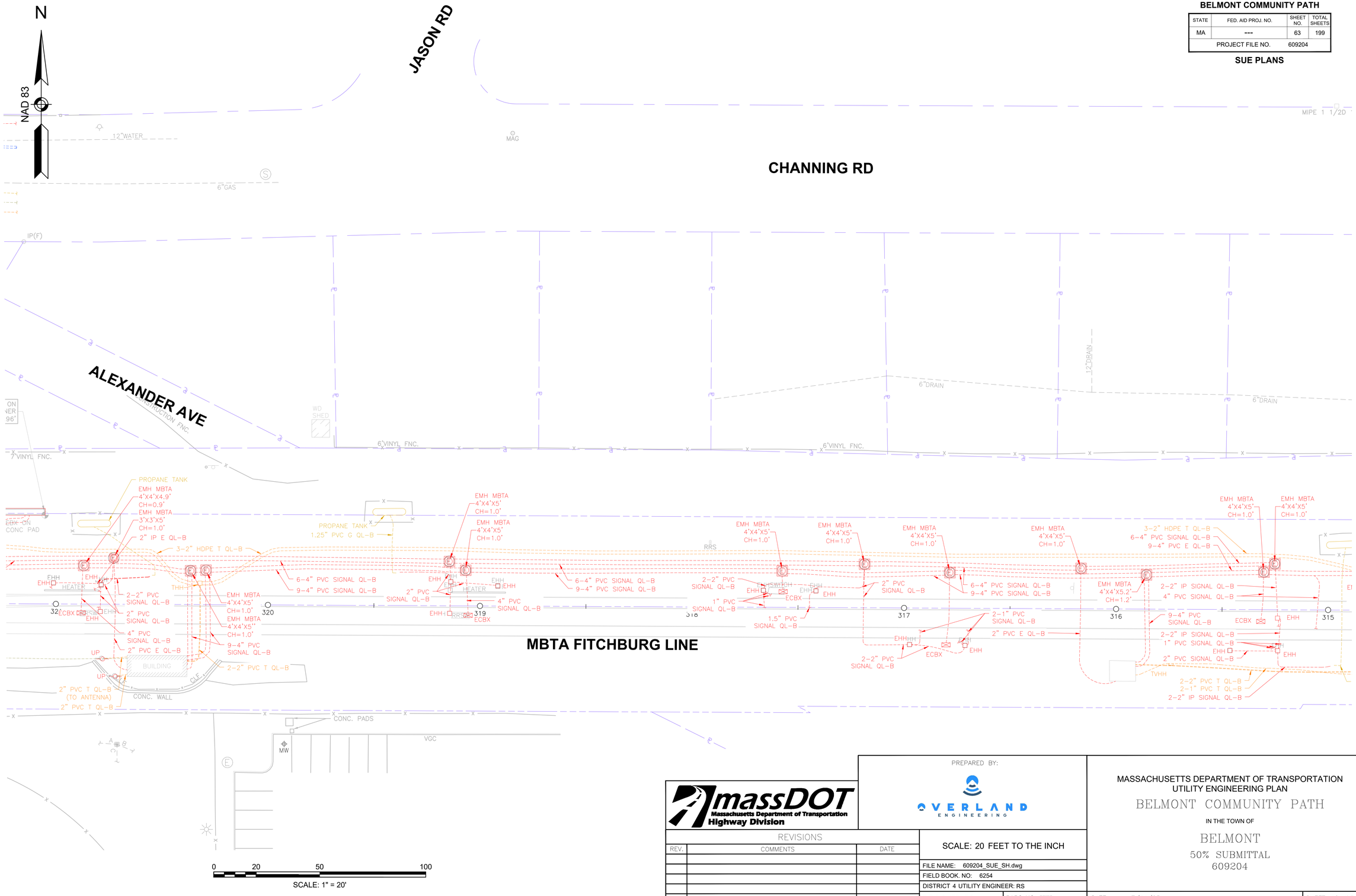
BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	63	199
PROJECT FILE NO.	609204		

SUE PLANS

SEE UE SHEET 9 OF 14 FOR CONTINUATION

SEE UE SHEET 11 OF 14 FOR CONTINUATION



REVISIONS		
REV.	COMMENTS	DATE

PREPARED BY:
OVERLAND ENGINEERING

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG
PARS. NO: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL
609204

DATE: 7/11/25

SHEET 10 OF 14

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	64	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

N

NAD 83

DEAN ST

STATLER RD

MIPE 1 1/2D 10 UP

MDHL SB 0.1 DOWN

MDHL SB FLUSH

CHANNING RD

SEE UE SHEET 10 OF 14 FOR CONTINUATION

SEE UE SHEET 12 OF 14 FOR CONTINUATION

CBND(F)

IP(F)

6"DRAIN

TWDRN

6"DRAIN

6"DRAIN

6"DRAIN

6'PVC FNC.

6'PVC FN

4'CLF

IP(F)

IP(F)

MBTA
X5'
1.0'

PROPANE TANK

9-4" PVC SIGNAL QL-B

TRSIG

EHH

THH

EMH MBTA
4'X4'X5'
CH=1.0'

2" PVC SIGNAL QL-B

2-4" PVC SIGNAL QL-B

6" PVC T QL-B

THH

HH

TRSIG

3-2" HDPE T QL-B

2-1" PVC T QL-B

1.25" PVC G QL-B

315 314 313 312 311 310 309

MBTA FITCHBURG LINE

0 20 50 100

SCALE: 1" = 20'

massDOT
Massachusetts Department of Transportation
Highway Division

PREPARED BY:

OVERLAND ENGINEERING

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL
609204

DATE: 7/11/25

SHEET 11 OF 14

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	65	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

N

NAD 83

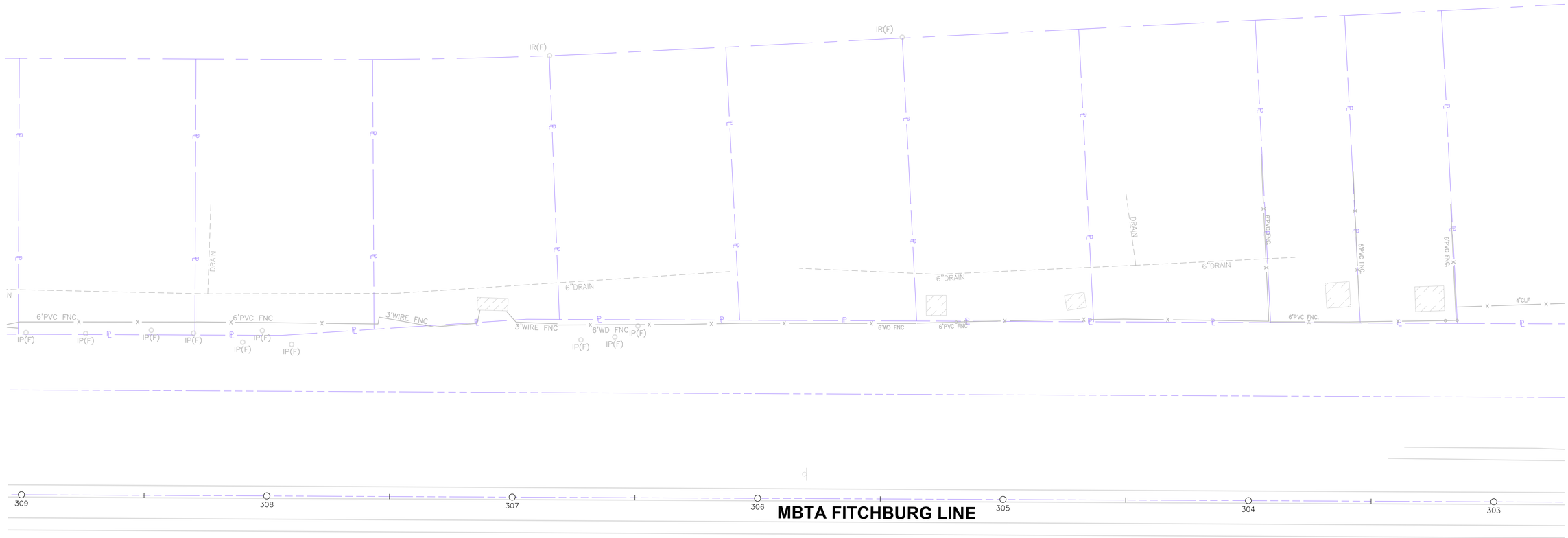
NO SUE THIS SHEET

WATERHOUSE RD

CHANNING RD

SEE UE SHEET 11 OF 14 FOR CONTINUATION

SEE UE SHEET 13 OF 14 FOR CONTINUATION



0 20 50 100

SCALE: 1" = 20'

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY:

OVERLAND ENGINEERING

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

50% SUBMITTAL

609204

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg

FIELD BOOK. NO: 6254

DISTRICT 4 UTILITY ENGINEER: RS

FIELD CHIEF: BG PARS. NO: ####

DATE: 7/11/25

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	66	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

SEE UE SHEET 12 OF 14 FOR CONTINUATION

SEE UE SHEET 14 OF 14 FOR CONTINUATION

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####
DATE: 7/11/25
SHEET 13 OF 14

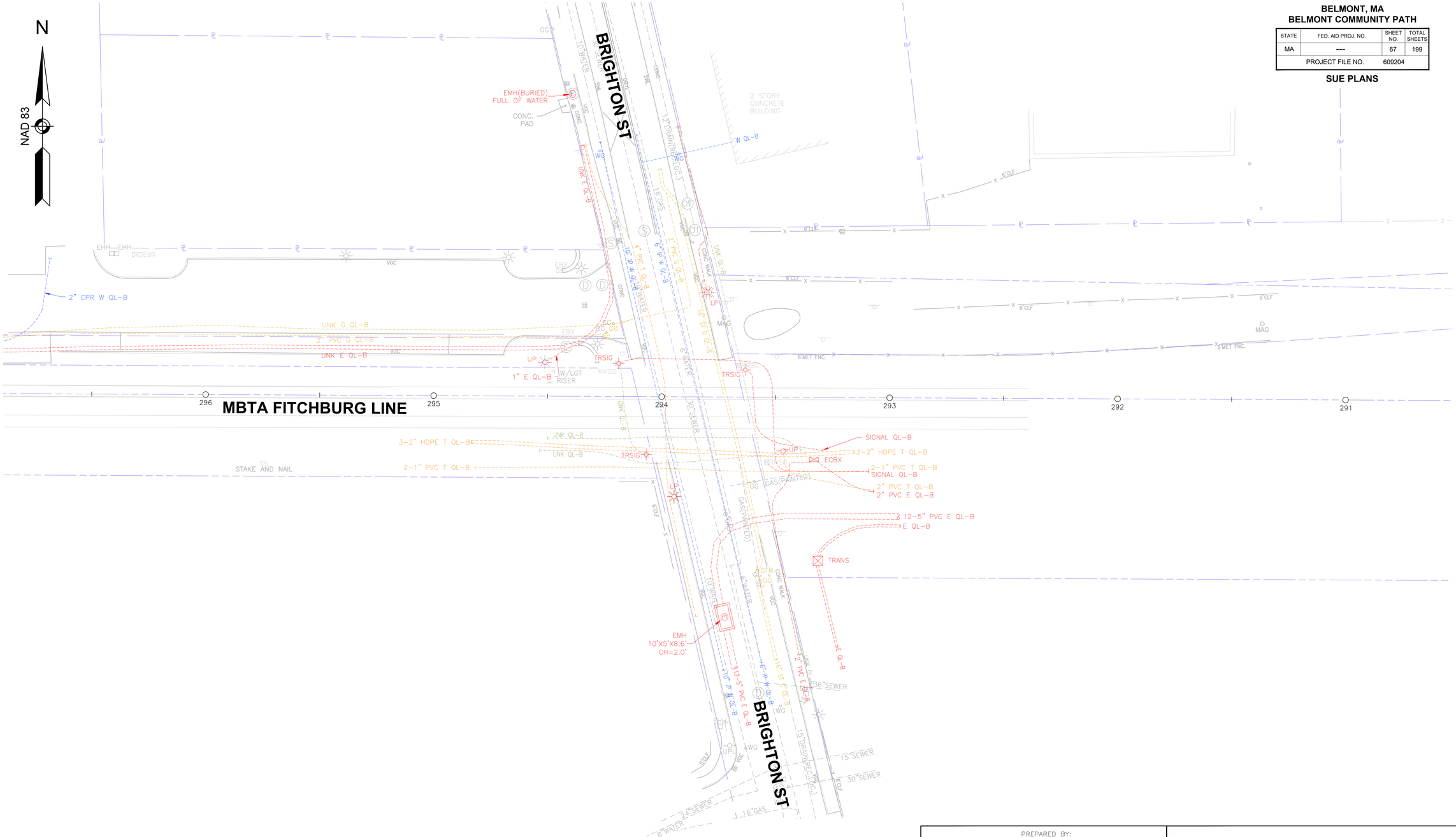
BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	67	199
PROJECT FILE NO.	609204		

SUE PLANS

609204_SUE_SH.DWG Plotted on 11-Jul-2025 2:16 PM

SEE UE SHEET 13 OF 14 FOR CONTINUATION



0 20 50 100
SCALE: 1" = 20'

PREPARED BY:
OVERLAND ENGINEERING

MassDOT Massachusetts Department of Transportation Highway Division

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
50% SUBMITTAL
609204

REVISIONS

REV.	COMMENTS	DATE

SCALE: 20 FEET TO THE INCH

FILE NAME: 609204_SUE_SH.dwg
FIELD BOOK. NO: 6254
DISTRICT 4 UTILITY ENGINEER: RS
FIELD CHIEF: BG PARS. NO: ####
DATE: 7/11/25
SHEET 14 OF 14

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	68	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

NOTES:
UTILITY POLES TO BE SUPPORTED DURING EXCAVATION.

N

PLEASANT STREET

RET ULT 51
POLE TO BE SUPPORTED
DURING CONSTRUCTION
(BELMONT LIGHT)

RET UPL 50
POLE TO BE SUPPORTED
DURING CONSTRUCTION
(BELMONT LIGHT)

APPROX LIMIT OF
GRADING (TYP)

RET ULT 49

EXIST TOWN LAYOUT

#722

PROP TEMP EASEMENT
PROP PERM EASEMENT
PROPERTY LINE

RET UP

RET CB
RET
RET
RET CB
RET
RET
RET

56"MWRA WATER MAIN
4"GAS
VGC
CONC WALK
CONC
OHW
BIT CONC
STEEL GRD
CLF
RIM=73.75'
RIM=73.69'
RIM=73.95'
RIM=71.16'

BELMONT COMMUNITY
PATH CONST
PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066
899+50
900
901
902
903
904
905

APPROX LIMIT
OF GRADING
BOS

PROP PERM
EASEMENT
PROP TEMP EASEMENT

MBTA FITCHBURG LINE

CONCRETE RETAINING WALL
FED AID BRIDGE
PROJECT
REMOVE EXISTING
BRIDGE
CLF
OHW
6' BOX CULVERT
INVERT ELEV=44.00'
CONC WALL
DRAIN (RELOCATE)

PROP TEMP
EASEMENT
PROP PERM
EASEMENT

CLARK
STREET

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

CONTINUED
BELOW LEFT

#710
N
#692
#460
#450

CONCORD
AVENUE

RET EXIST
STONE SWALE
APPROX LIMIT
OF GRADING
APPROX LIMIT OF
GRADING (TYP)
ADJ EMH
(BELMONT LIGHT)
RET EMH
PROP TEMP
EASEMENT
RET CONC
PAD &
CONTAINER

BELMONT COMMUNITY
PATH CONST
906
907
908
909
910
911

R&D SHED (PREVIOUSLY REMOVED)

MBTA FITCHBURG LINE

100' WETLAND BUFFER
STONE WALL
CONC PAD
W/ METAL
CONTAINER
2 STORY
BRICK BUILDING
BIT CONC
CONC W/ EBX
DMH
RIM=46.45'
DMH
RIM=48.22'
CB
RIM=43.28'
CB
RIM=43.25'
8"SEWER
GRASS
RET WALL
WOOD POSTS
RECORD
ANCHOR
UTILITY SHED

PROP TEMP EASEMENT
PROP PERM EASEMENT
MBTA LAYOUT
LIMIT OF BVW
WF#22
WF#23
WF#24
WF#21
WF#20
WF#19
WF#10
WF#11
WF#8

0 20 50 100
SCALE: 1" = 20'

CONTINUED
ABOVE RIGHT

CONTINUED ON
SHEET NO. 69

609204_HD(UTIL).DWG Plotted on ---- ----

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	69	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

N

CONCORD AVENUE

CONTINUED ON SHEET NO. 68

RET EMH
PROP PERM EASEMENT
RET LP
PROP TEMP EASEMENT
RET
RET CB RIM=41.11'
RET DMH
REMODEL CB
RET LP
RET EMH
ADJ EMH (BO-BELMONT LIGHT)
ADJ(BO-VZ)
PROP PERM EASEMENT
RET EHH
RET CB (BELOW)
RET GM
RET GG (BELOW)
RET ULT
BELMONT COMMUNITY PATH CONST ℄
PROP TEMP EASEMENT
SAWCUT MEET EXIST PLATFORM
PROP PERM EASEMENT
913+68.72 BELMONT COMMUNITY PATH= 51+39.47 BELMONT STATION RAMP
APPROX LIMIT OF GRADING (TYP)
MBTA LAYOUT
MBTA FITCHBURG LINE
RET EXIST SIGNAL CONDUIT
BELMONT STATION
TOWN LAYOUT
#7
#17-19
PROP TEMP EASEMENT
PROP HH
R&R LP
PROP 2" ELEC CONDUIT
APPROX LIMIT OF GRADING (TYP)
PROP PERM EASEMENT
PROP TEMP EASEMENT
CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

CHANNING ROAD

#17-19 #23-25 #29 #31-33 #35 #39 #45-47 #49-51 #53 #57-59 #61-63

N

RET
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP HH AT EX LP
PROP 2" CONDUIT FROM HH TO LP
R&R LP
APPROX LIMIT OF GRADING (TYP)
BEGIN PROP GRASS SWALE AND 8" CPP SUB-DRAIN +09
PROP BOTTOM OF PROP GRASS SWALE 917+09 TO 932+62 LT
BELMONT CITIZENS FORUM
PROP 1,550'- 8" CPP SUB-DRAIN
BELMONT COMMUNITY PATH CONST ℄
PROP TEMP EASEMENT
PROP PERM EASEMENT
APPROX LIMIT OF GRADING (TYP)
MBTA FITCHBURG LINE
CONTINUED ABOVE RIGHT
CONTINUED ON SHEET NO. 70

0 20 50 100
SCALE: 1" = 20'

609204_HD(UTIL).DWG Plotted on ---- ----

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	70	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

#57-59 #61-63 #65-67 #69-71 #73-75 #77 #83 #87 #91 #97 #101

N

CONTINUED ON SHEET NO. 69

PROP 1,550'- 8" CPP SUB-DRAIN

PROP BOTTOM OF PROP GRASS SWALE 917+09 TO 932+62 LT

PROP 1,550'- 8" CPP SUB-DRAIN

APPROX LIMIT OF GRADING (TYP)

PROP BOTTOM OF PROP GRASS SWALE 917+09 TO 932+62 LT

PROP 1,550'- 8" CPP SUB-DRAIN

APPROX LIMIT OF GRADING (TYP)

CONTINUED BELOW LEFT

BELMONT CITIZENS FORUM

BELMONT COMMUNITY PATH CONST

922 923 924 925 926 927

RAILROAD TIE STOCKPILE

EDGE OF BALLAST

STONE

STAKE AND NAIL

PROP PERM EASEMENT

PROP TEMP EASEMENT

APPROX LIMIT OF GRADING (TYP)

EMH 6'X4'X6' CH=7.0'

RET EMH

4-4" PVC E QL-B

2-4" PVC E QL-B RET

3-2" HDPE T QL-B RET

332 331 330 329 328 327 32

MBTA FITCHBURG LINE

APPROXIMATE LOCATION OF EXIST MBTA SIGNAL LINE

RET EXIST SIGNAL CONDUIT

UP

0 20 50 100

SCALE: 1" = 20'

#83 #87 #91 #97 #101 #105 #111 #115 #119 #125

N

PROP BOTTOM OF PROP GRASS SWALE 917+09 TO 932+62 LT

PROP 1,550'- 8" CPP SUB-DRAIN

APPROX LIMIT OF GRADING (TYP)

BELMONT CITIZENS FORUM

APPROX LIMIT OF GRADING (TYP)

PROP 1,550'- 8" CPP SUB-DRAIN

R&D PROPANE TANK

PROP GRASS SWALE 917+09 TO 932+62 LT

PROP 1,550'- 8" CPP SUB-DRAIN

PROP TEMP EASEMENT

#145 (ALEXANDER AVE)

END PROP GRAS SWALE +3

CONTINUED ABOVE RIGHT

925 926 927 928 929 930 931

BELMONT COMMUNITY PATH CONST

PROP TEMP EASEMENT

PROP PERM EASEMENT

RET EMH

EMH MBTA 3'X3'X5.5' CH=1.5'

EMH MBTA 4'X4'X5.2' CH=1.2'

EMH MBTA RET CH=1.1'

2-4" PVC E QL-B RET

3-2" HDPE T QL-B RET

6-4" PVC SIGNAL QL-B RET

9-4" PVC SIGNAL QL-B

4" PVC SIGNAL QL-B

2-2" PVC SIGNAL QL-B

1" PVC SIGNAL QL-B

2" PVC E QL-B

2" DB SIGNAL QL-B

1.25" PVC SIGNAL QL-B

RET TEL TRSIG

PROP 4" MBTA GAS SERVICE

MBTA SIGNAL CONTROL HOUSE

ECBX

UNK QL-B

SIGNAL TOWER

326 325 324 323

MBTA FITCHBURG LINE

APPROX LIMIT OF GRADING (TYP)

APPROXIMATE LOCATION OF EXIST MBTA SIGNAL LINE

RET EXIST SIGNAL CONDUIT

6" CPP CONNECTION

0 20 50 100

SCALE: 1" = 20'

16.10

609204_HD(UTIL).DWG Plotted on ---- ----

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NOTES:
1. SUE - LEVEL A TO BE CONDUCTED IN JANUARY 2026.
2. SEE LIGHTING PLAN FOR ELECTRICAL CONDUIT.
3. 4" FRAME AND COVER TO BE USED.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	71	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

N

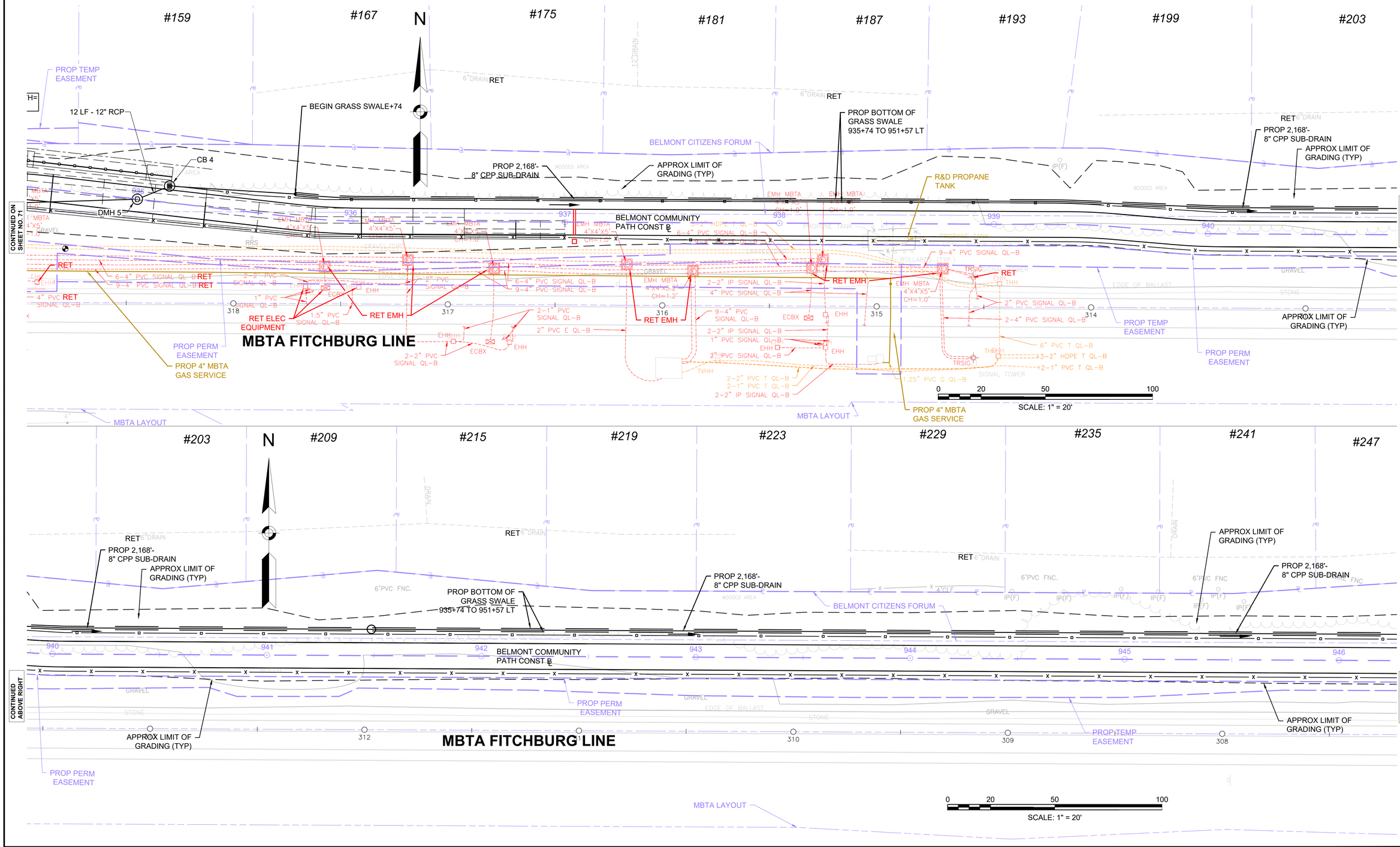
#119 #125 #145 (ALEXANDER AVE) #159 (ALEXANDER AVE) #145 #153 #159

PROP 6'X13' EMH
PROP 6"X 6" GAS TEE
ALEXANDER AVE CONST B
PROP LP (TYP) SEE LIGHTING PLANS +35.47 OFFSET: 7.71
PROP LIGHTING HH (TYP)
PROP TEMP EASEMENT
PROP 4" MBTA GAS SERVICE
PROP 6-5" ELEC DUCT BANK
PROP LIGHTING HH 9"X11" (TYP)
RET UP 30-5.2 PROP SERVICE CONNECTION FOR LIGHTING LOAD CENTER
RET2-2" PVC T QL-B
RET UPL 109 W/ RISER
PROP LIGHTING LOAD CENTER, SEE LIGHTING PLANS
APPROX LIMIT OF GRADING (TYP)
PROP LP +69.25 OFFSET: 7.92
PROP LP +27.16 OFFSET: 6.69
PROP LP +71.51 OFFSET: 9.04
68 LF - 12" RCP
PROP 4'X4' EMH
PROP 4'X4' TMH
PROP LP +97.49 OFFSET: 22.73
PROP 6" MBTA GAS SERVICE (BO)
PROP 2" LIGHTING CONDUIT (TYP)
PROP 6" MBTA GAS SERVICE METER W/ CC PAD AND BOLLARDS (4) (BO)
20 LF - 12" RCP
PROP LP +97.91 OFFSET: 20.77
PROP 9-4" ELEC DUCT
PROP 6-4" ELEC DUCT
RET ELEC EQUIPMENT
PROP 4" MBTA GAS SERVICE
933+27.46 BELMONT COMMUNITY PATH= 502+09.82 ALEXANDER AVE SPUR
DMH 3
PROP 3-2" HDPE TELE DUCT
12 LF - 12" RCP
CB 4
PROP GRASS SWALE 917+09 TO 932+62 LT
PROP 1,550'- 8" CPP SUB-DRAIN
END PROP GRASS SWALE +36
CB 1
DMH 2
28 LF - 12" RCP
DMH 6
129 LF - 12" RCP
DMH 5
DMH 7
59 LF - 12" RCP
PROP 9-4" ELEC DUCT
PROP 6-4" ELEC DUCT
REM EXIST DUCT BANK BETWEEN STA 932+72 TO 934+31
REM EXIST DUCT BANK BETWEEN STA 933+20 TO 934+40
REM EXIST DUCT BANK BETWEEN STA 933+19 TO 934+45
PROP PERM EASEMENT
PROP 4" MBTA GAS SERVICE
PROP 3-2" HDPE TELE DUCT
PROP 4'X4' TMH
RET ELEC EQUIPMENT
PROP BOOSTER PUMP
PROP 4" MBTA GAS SERVICE
PROP WALL MTD LIGHT SEE LIGHTING PLANS
REM EXIST EMH (BO-BELMONT LIGHT)
PROP LP +39.07 OFFSET: 6.79
PROP SERVICE CONNECTION
MBTA LAYOUT
18 LF - 12" RCP
PROP LP +69.25 OFFSET: 6.75
GICI 10
DMH 9
68 LF - 12" RCP
PROP 4-5" ELEC DUCT BANK
PROP 6-5" ELEC DUCT BANK
REM LP
APPROX LIMIT OF GRADING (TYP)
49 LF - 12" RCP
PROP 6'X13' EMH
EX DMH
RET EXIST INFILTRATION SYSTEM
PROP LP +13.22 OFFSET: 7.07
CONTINUED IN INSET ABOVE
PROP LP +61.79 OFFSET: 7.70
PROP LP +20.79 OFFSET: 6.77
PROP PERM EASEMENT
RET EMH
RET EHH
RET EMH
PROP 4'X4' EMH
PROP 2" LIGHTING CONDUIT (TYP)
PROP 1" LIGHTING CONDUIT (TYP)
PROP 2" LIGHTING CONDUIT (TYP)
PROP 4" MBTA GAS SERVICE
PROP 4" MBTA GAS SERVICE METER W/ CC PAD AND BOLLARDS (4) (BO)
PROP 4" MBTA GAS SERVICE
PROP 4" MBTA GAS SERVICE
PROP 4" MBTA GAS SERVICE

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	72	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



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609204_HD(UTIL).DWG Plotted on ---- ----

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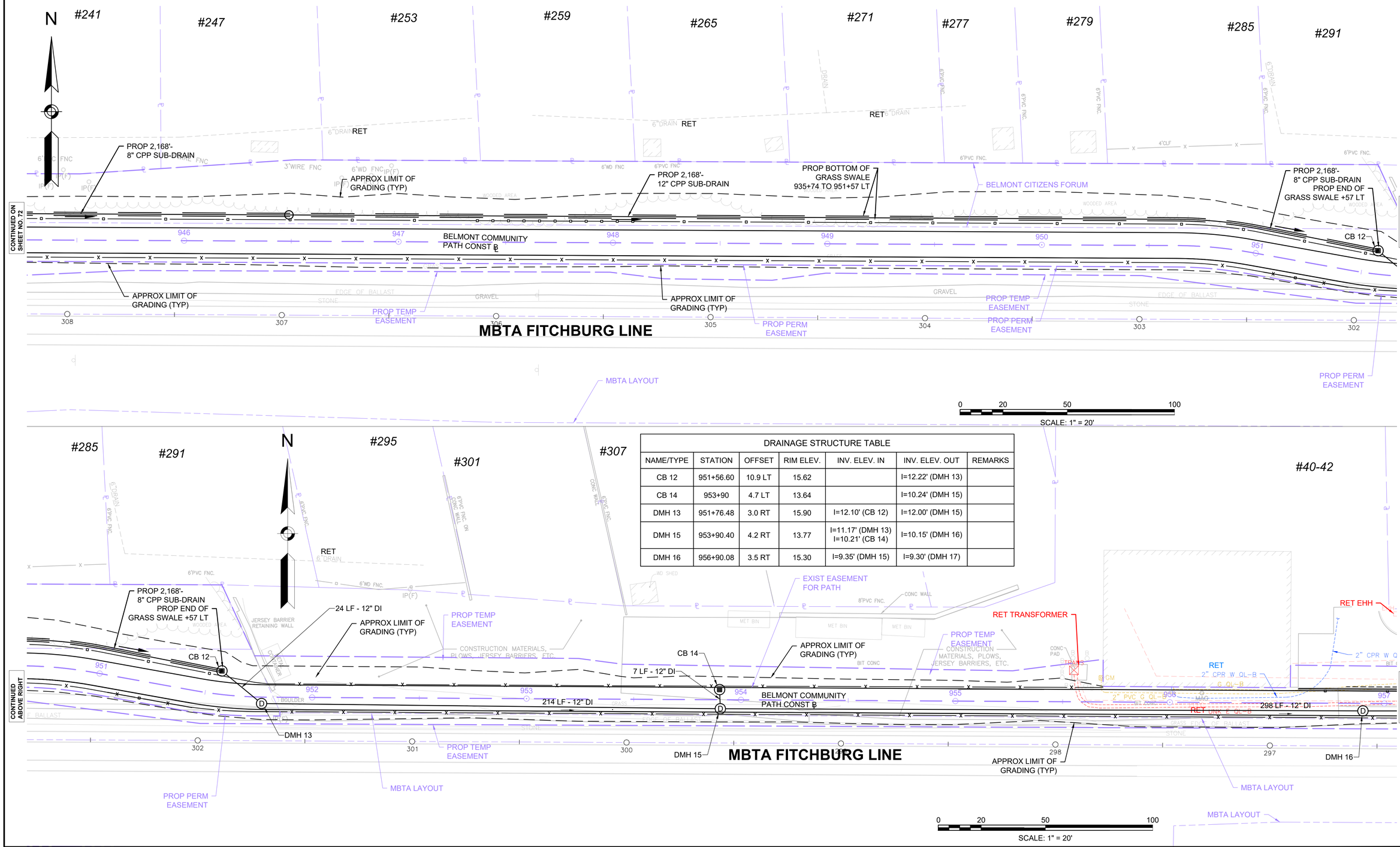
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	73	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



DRAINAGE STRUCTURE TABLE

NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB 12	951+56.60	10.9 LT	15.62		I=12.22' (DMH 13)	
CB 14	953+90	4.7 LT	13.64		I=10.24' (DMH 15)	
DMH 13	951+76.48	3.0 RT	15.90	I=12.10' (CB 12)	I=12.00' (DMH 15)	
DMH 15	953+90.40	4.2 RT	13.77	I=11.17' (DMH 13) I=10.21' (CB 14)	I=10.15' (DMH 16)	
DMH 16	956+90.08	3.5 RT	15.30	I=9.35' (DMH 15)	I=9.30' (DMH 17)	

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	74	199
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

#40-42

N

MBTA FITCHBURG LINE

FITCHBURG CUTOFF

BELMONT COMMUNITY PATH CONST ℄

BRIGHTON ST CONST ℄

BRIGHTON STREET

HITTINGER STREET

FLANDERS ROAD

PROJECT END
STA 960+90
N2969514.3844
E748458.0940

961+67.25

298 LF - 12" DI

229 LF - 12" DI

65 LF - 12" DI

DMH 16

DMH 17

EX DMH 2

ADJ EXIST DMH 2
CONNECT TO EXIST

REM LP (BO)

ADJ GG (BO)

R&S UP & LP (BO)

ADJ EMH (BO)

R&D LP

REM ELEC BOX

PROP TEMP EASEMENT

EXIST EASEMENT FOR PATH

MBTA LAYOUT

STAKE AND NAIL

SAWCUT

RET

RET EHH

RET LP

RET ELEC BOX

RET SMH

RET DMH

RET CB

RET GG

RET HYD

RET WG

RET UPL

ADJ SMH

ADJ CB

2" CPR W QL-B

3-2" HDPE T QL-B

2-1" PVC T QL-B

3 12-5" PVC E QL-B

SIGNAL QL-B

TRANS

2 STORY CONCRETE BUILDING

CONTINUED ON SHEET NO. 73

DRAINAGE STRUCTURE TABLE

NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DMH 16	956+90.08	3.5 RT	15.30	I=9.35' (DMH 15)	I=9.30' (DMH 17)	
DMH 17	959+22.39	2.9 RT	12.49	I=8.95' (DMH 16)	I=8.90' (EX DMH 2)	
EX DMH 2	959+73.20	41.4 LT	12.37	I=8.70' (DMH 17)		

0 20 50 100
SCALE: 1" = 20'

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EXISTING SIGN LEGEND

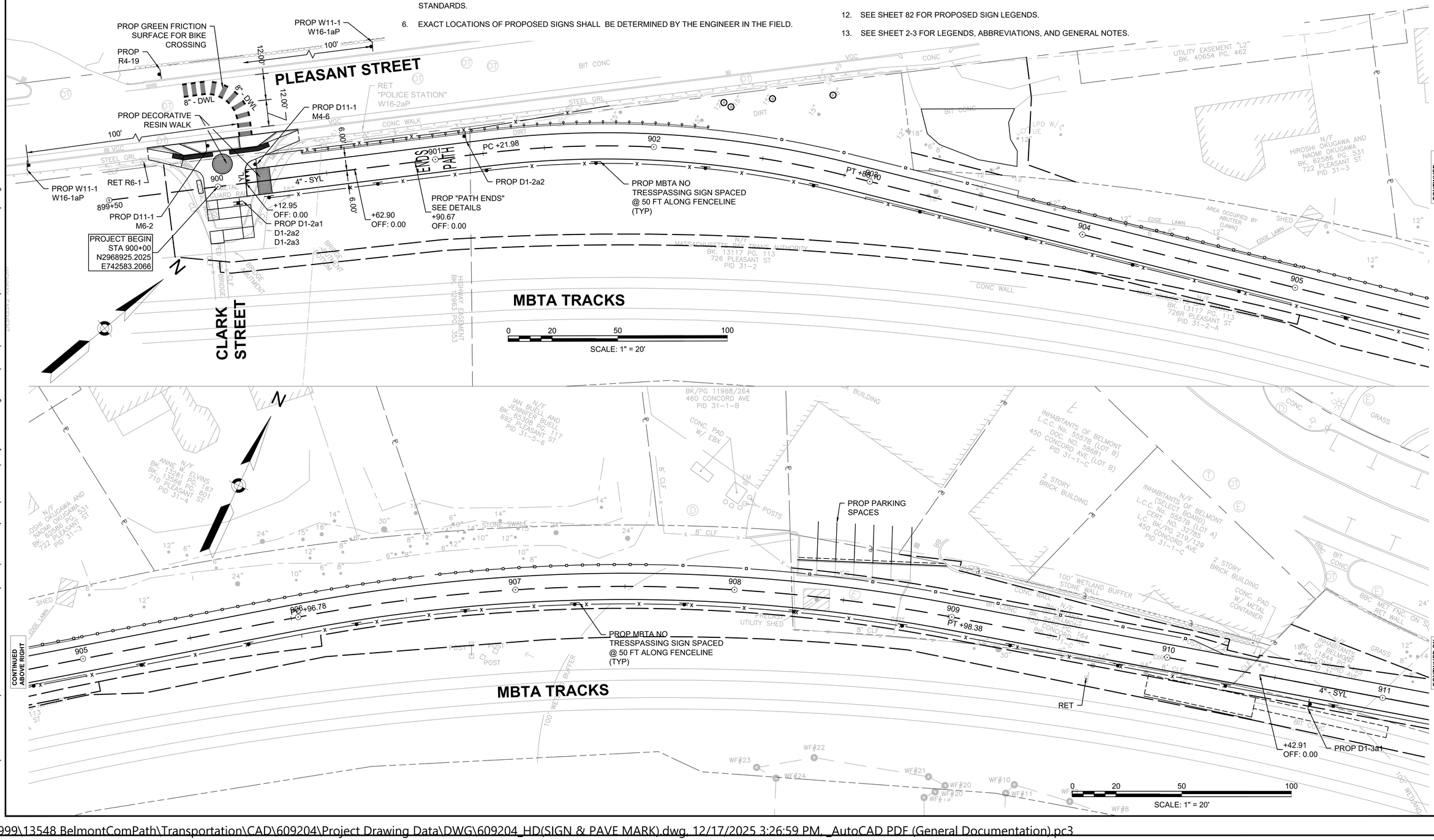
TRAFFIC SIGN AND PAVEMENT MARKINGS NOTES

1. ALL EXISTING SIGNS AND SIGN POSTS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL PROPOSED PAVEMENT MARKINGS WITHIN THE LIMIT OF WORK SHALL BE THERMOPLASTIC. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY MASSDOT APPROVED METHOD.
3. ALL PROPOSED SIGN POSTS SHALL BE P-5 TYPE (TELESCOPIC POST) UNLESS NOTED OTHERWISE.
4. PROPOSED PAVEMENT MARKINGS (LEGENDS & ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD & MASSDOT STANDARD DRAWINGS.
5. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD AND MASSDOT STANDARDS.
6. EXACT LOCATIONS OF PROPOSED SIGNS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
7. ALL SIGN PANELS SHALL BE 90° TO THE CURB AND FACING THE FLOW OF TRAFFIC EXCEPT PARKING REGULATION SIGNS.
8. ALL SIGNS TO BE R&R SHALL BE MOUNTED ON NEW POSTS, UNLESS OTHERWISE NOTED.
9. SIGNS TO BE MOUNTED NEAR THE CURB LINE SHALL BE SET BACK 12" FROM THE EDGE OF THE SIGN PANEL TO THE CURB LINE. NO SIGN SHALL OVERHANG THE CURB LINE.
10. ALL SIGNS SHALL BE MOUNTED TO PROVIDE A 8.0' MINIMUM, 10.0' DESIRED, CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND FINISH GRADE EXCEPT OBJECT MARKER SIGNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TREE TRIMMING WHERE NECESSARY TO IMPROVE VISIBILITY OF PROPOSED SIGNS.
12. SEE SHEET 82 FOR PROPOSED SIGN LEGENDS.
13. SEE SHEET 2-3 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	75	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	76	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

SHARE THE ROAD — W16-1p
NO PARKING ANY TIME — R7-1
NO STOPPING STANDING OR TOW ZONE — R7-107-bNR
LEONARD ST — D3-1
SHARE THE ROAD — W16-1p
PARKING — D4-1
R4-7

N

CONCORD AVENUE

RET EX PVMT MARKINGS
RET W11-2 W16-7P
RET R7-5
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP W11-2 W16-7P
PROP DECORATIVE RESIN WALK
RET R4-7
RET R7-1
RET R7-107bNR
RET D3-1
RET W16-1P
PROP R1-2
PROP R1-1 D3-1a
PROP D3-1a R1-2
PROP D1-3a1
PROP D1-3a2
PROP D3-1b
PROP D1-2a4
PROP D11-1 M6-3
RET D4-1L
RET W16-1p

PC +45.40
PT +56.44
PC +92.37
+92.53 OFF: 0.00
PT +18.19
+76.04 OFF: 0.00
4" - SYL
PT +82.17
PC +71.30
PRC +49.82
+69.90 OFF: 0.00
+62.15 OFF: 0.00
+49.86 OFF: 0.00
PC +32.23
PT +04.87
+42.91
+18.53 OFF: 0.00
PC +07.65
PRC +41.29
PT +66.58
PC +12.59
PT +32.50
PC +68.45
PC +13.77
PT +29.18
PI +153.93
PC +97.06
PT +12.82
2+21.72
PT +08.25
PT +66.58
PC +12.59
PT +32.50
PC +68.45

913+68.78 BELMONT COMMUNITY PATH= 51+39.48 BELMONT STATION RAMP

916+87.53 BELMONT COMMUNITY PATH= 2+21.72 7 CHANNING ROAD

PROP MBTA NO TRESSPASSING SIGN SPACED @ 50 FT ALONG FENCELINE (TYP)

BELMONT STATION

MBTA TRACKS

CHANNING ROAD

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 76

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 77

3 STORY BRICK/WOOD BUILDING

101B CHANNING RD N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113 PID 35-42

101A CHANNING RD N/F BELMONT CITIZENS FORUM INC BK. 51653 PG. 19 PID 35-14-A

7-19 CHANNING ROAD CONDOMINIUM BK. 46787 PG. 385 PID 35-28

N/F RETAIL SITE PROCESSING, INC. BK. 30134 PG. 597 7 CHANNING RD PID 35-29 (SUBJECT TO AUL)

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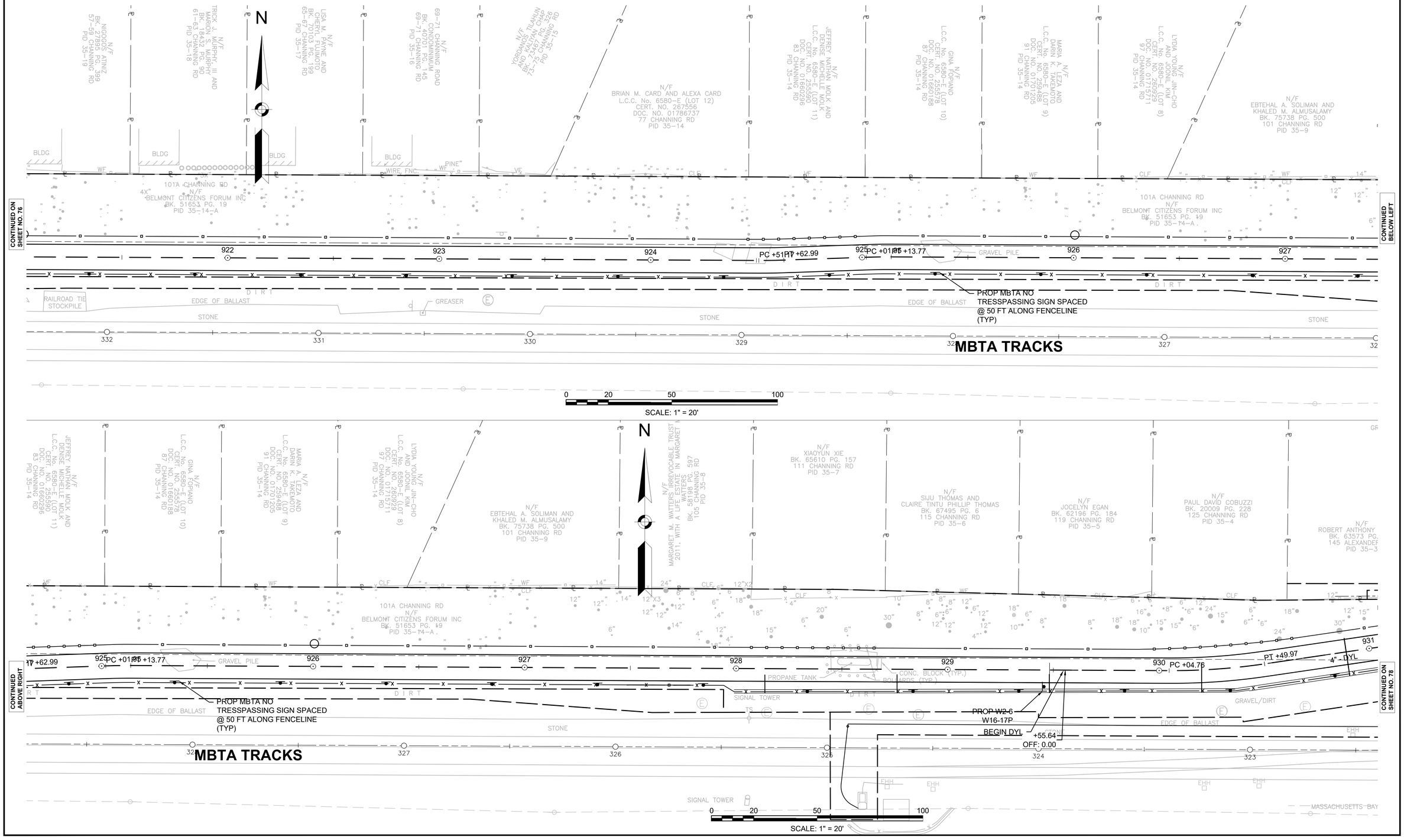
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	77	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	78	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

CHANNING ROAD

MBTA TRACKS

N

ALEXANDER AVENUE

PROP R7-4
PROP R5-3
PROP R7-4
PROP R7-4
500+00
+11.50
OFF: 5.00
PC +12.36
PROP D3-1b
R1-1
PT +27.04
PROP D11-1
M4-6
PC +34.68
PROP W2-6
W16-9P
PROP "PATH ENDS"
SEE DETAILS
+52.86
OFF: 0.00
PROP D1-3a4
+73.83
OFF: 1.79
PROP R1-2
R6-5P
+71.44
OFF: 14.11
PC +44.99
PT +49.97
PT +82.6932
PC +04.76
930
931
933
934
935
4" - DYL
4" - SYL
6.00'
5.00'
+12.32
OFF: 0.00
+17.32
OFF: 0.00
+42.32
OFF: 0.00
+34.15
OFF: 22.02
6" - WDWL
(TYP.)
PROP R1-2
R6-5P
+37.12
OFF: 10.16
+90.90
OFF: 0.00
PROP D1-3a6
PC +77.76
PT +85.93
PI +79.69
PC +26.61
PT +59.47
+31.43
OFF: 2.54
PROP R1-2
R6-5P
+40.91
OFF: 0.00
+45.91
OFF: 0.02
PI +97.45
+46.75
OFF: 0.01
+96.69
OFF: 0.00
PROP D1-3a3
PROP MBTA NO
TRESSPASSING SIGN SPACED
@ 50 FT ALONG FENCELINE
(TYP)
+91.69
OFF: 0.00
+07.65
OFF: 7.43
PT +30.56
933+19.70 BELMONT COMMUNITY PATH=
502+04.32 ALEXANDER AVE SPUR
+34.87
OFF: 23.34
PROP W2-6
W16-17P
+55.64
OFF: 0.00
324
323
322
321
320
319
318
503
504
PC +06.78
PROP D1-3a5
PT +32.95
PC +75.99
PROP W2-6
W16-17P
+28.98
OFF: 0.00
PI +18.43
+55.74
PC +91.38
PT +75.73
PC +55.74
PI +25.81
PT +07.25
505
INSET
CONTINUED ON SHEET NO.77
CONTINUED ON SHEET NO.79
CONTINUED ON INSET ABOVE

N/F
JOCELYN EGAN
BK. 62196 PG. 184
119 CHANNING RD
PID 35-5

N/F
PAUL DAVID COBUZZI
BK. 20009 PG. 228
125 CHANNING RD
PID 35-4

N/F
ROBERT ANTHONY COBUZZI
BK. 63573 PG. 517
145 ALEXANDER AVE
PID 35-3

BK. 32066 PG. 246
BK. 8116 PG. 485
159 ALEXANDER AVE
PID 35-1

N/F
KARA A. MORIN AND
ROGELIO A.P. FUSSA
BK. 53096 PG. 515
153 CHANNING RD
PID 37-91

N/F
JOHN J. LeSHANE
REVOCABLE TRUST
BK. 61138 PG. 171
159 CHANNING RD
PID 37-90

167 ALEXANDER AVE
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113
PID 35-39

101B CHANNING RD
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 113
PID 35-42

N/F
INHABITANTS OF BELMONT
BK. 5183 PG. 20
291 CONCORD AVE
PID 35-41

SCALE: 1" = 20'

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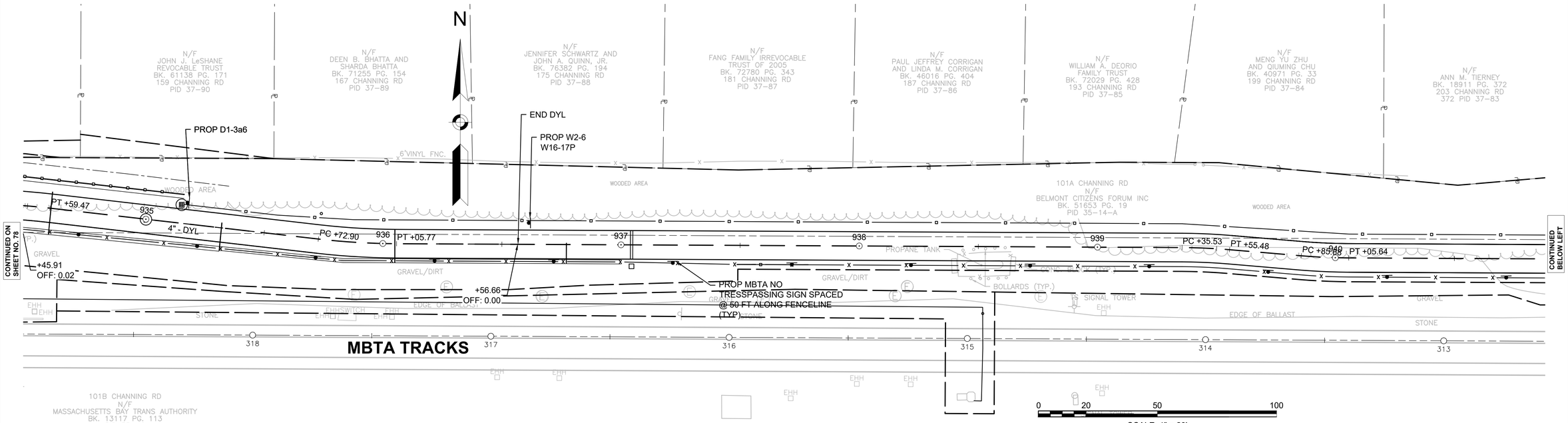
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	79	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	80	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE

N

N/F
CATERINO NOMINEE TRUST
L.C.C. No. 29488A (LOT 4)
CERT. NO. 258143
DOC. NO. 01685828
235 CHANNING RD
PID 37-76

N/F
NDRICIM QUKA
AND MIRELA QUKA
L.C.C. No. 29488A (LOT 5)
CERT. NO. 272416
DOC. NO. 01833296
247 CHANNING RD
PID 37-75

N/F
STEPHEN TSANG
AND PAMELA TSANG
L.C.C. No. 29488A (LOT 6)
CERT. NO. 206259
DOC. NO. 1012745
253 CHANNING RD
PID 37-74

N/F
JAMES J. DEMETROPOULOS
L.C.C. No. 29488A (LOT 7)
CERT. NO. 239535
DOC. NO. 01445178
259 CHANNING RD
PID 37-73

N/F
JOSEPH M. NOONE AND
CAROLINE C. NOONE
L.C.C. No. 29488B (LOT 11)
CERT. NO. 211233
DOC. NO. 1062966
271 CHANNING RD
PID 37-71

N/F
BK. 70162, PG. 500
77 CHANNING RD
PID 37-70

N/F
KEVIN M. SHEA
BK. 30032 PG. 231
279 CHANNING RD
PID 37-69

N/F
PAUL HEAYN
AND MARISA HEAYN
BK. 69435 PG. 301
285 CHANNING RD
PID 37-68

N/F
ELAINE J. NOONE LIVING TR
BK. 72180 PG. 574
291 CHANNING RD
PID 38-45

6'PVC FNC
3'WIRE FNC
6'WD FNC
4'CLF
4'WOF

101A CHANNING RD
N/F
BELMONT CITIZENS FORUM INC
BK. 51853 PG. 19
PID 35-14-A

WOODED AREA

CONTINUED ON SHEET NO. 79

946 947 948 949 950 951 952 953 954 955 956 957

PC +62.84
PC +97.51
PC +44.48
PT +79.00

GRASS
EDGE OF BALLAST
STONE
GRAVEL

PROP MBTA NO TRESSPASSING SIGN SPACED @ 50 FT ALONG FENCELINE (TYP)

308 307 306 305 304 303 302

MBTA TRACKS

CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

N

N/F
ELAINE J. NOONE LIVING TRUST
BK. 72180 PG. 574
291 CHANNING RD
PID 38-45

N/F
DIONISIA ATSIKNOUDAS
BK. 21530 PG. 294
295 CHANNING RD
PID 38-46

N/F
JIN SEOP JANG AND
YU CHUNG JEONG
BK. 71548 PG. 96
301 CHANNING RD
PID 38-47

N/F
GROTON REALTY
VENTURES, LLC
BK. 72343 PG. 597
307 CHANNING RD
PID 38-48

N/F
CYNTHIA J. TAYLOR
AND ROBERT J. TAYLOR
BK. 50016 PG. 532
315 CHANNING RD
PID 38-48-A

N/F
MAUREEN F. BRUCE
IRREVOCABLE TRUST
BK. 71455 PG. 488
321 CHANNING RD
PID 38-48-B

N/F
40-42 BRIGHTON STREET
CONDOMINIUM
BK. 64963 PG. 304
40-42 BRIGHTON ST
PID 38-10

6'PVC FNC
6'WD FNC
6'PVC FNC ON CONC WALL
CONC WALL
WD SHED
MET BIN
JERSEY BARRIER RETAINING WALL
CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.
CONC PAD
BIT CONC
GRASS
EDGE OF BALLAST
STONE
GRAVEL
CONSERVATION EASEMENT BK. 64963 PG. 300

PROP D1-2a5
1.40'
4" - SWL
11.50'
1.00'
9.34'

CONTINUED ABOVE RIGHT

302 301 299 298 297

MBTA TRACKS

CONTINUED ON SHEET NO. 81

0 20 50 100
SCALE: 1" = 20'

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	81	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

W16-15 · W16-15P · R8-8 · R5-3 · SP-1 · "MBTA" · R4-11 · SP-2 · R15-1 · D11-1 · D1-1b1 · M4-14 · M4-6

N

MBTA TRACKS

FITCHBURG CUTOFF

BRIGHTON STREET

N/F STANLEY D. GARFIELD REVOCABLE TRUST OF 2014 BK. 64312 PG. 280 46 BRIGHTON ST PID 38–11

N/F HITTINGER STREET LLC L.C.C No. 22622A(LOT UNUMBERED) CERT. NO. 230586 DOC. NO. 01319795 30 BRIGHTON ST PID 38–8

N/F VALE REALTY AND SERVICE COMPANY, LLC BK. 67478 PG. 51 1 VALE ROAD PID 39–28

N/F OAK REALTY AND SERVICE COMPANY, LLC BK. 66271 PG. 339

N/F D&J REALTY HOLDINGS LLC BK. 74935 PG. 114 33 BRIGHTON ST PID 38–2

BK. 44742 PG. 61 45 BRIGHTON ST PID 39–68

2 STORY CONCRETE BUILDING

PROJECT END STA 960+55.39 N2969512.9408 E748423.5107

959+53.87 BELMONT COMMUNITY PATH= 201+73.42 BRIGHTON ST

CONTINUED ON SHEET NO. 80

0 20 50

SCALE: 1" = 20'

609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

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PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFI–CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK–GROUND	LEGEND	BORDER			
R1–1	18"	18"	STOP	①	①	①	4	RED	WHITE	WHITE	P–5 4 REQ'D	2.25	9.00
R1–2	18"	18"	YIELD				7	WHITE	RED	RED	P–5 7 REQ'D	1.125	7.875
R4–7	24"	30"					1	WHITE	BLACK	BLACK	P–5 1 REQ'D	2.25	2.25
R4–19	30"	30"	4 FT MIN CLEARANCE TO PASS				1	WHITE	BLACK	BLACK	P–5 1 REQ'D	6.25	6.25
R5–3	24"	24"	NO MOTOR VEHICLES				2	WHITE	BLACK	BLACK	P–5 1 REQ'D	4.00	8.00
R6–5P	18"	18"					4	WHITE	BLACK	BLACK	MTD W/ R1–2	2.25	9.00
R7–3	12"	18"	NO PARKING ANY TIME				3	WHITE	RED	RED	P–5 3 REQ'D	1.50	3.00
R8–8	24"	30"	DO NOT STOP ON TRACKS				1	WHITE	BLACK	BLACK	P–5 1 REQ'D	2.25	2.25
D1–1AX	VARIES	6"	SEE SIGN DETAILS SHEET 83				1	GREEN	WHITE	WHITE	MTD W/ D11–1	SEE SIGN DETAILS SHEET 83	
D1–2AX	VARIES	12"	SEE SIGN DETAILS SHEET 83				7	GREEN	WHITE	WHITE	P–5 7 REQ'D	SEE SIGN DETAILS SHEET 83	
D1–3AX	VARIES	18"	SEE SIGN DETAILS SHEET 83	↓	↓		6	GREEN	WHITE	WHITE	P–5 6 REQ'D	SEE SIGN DETAILS SHEET 83	
D3–1A	48"	8"	Belmont Station	4D	2" 4D 2"		2	GREEN	WHITE	WHITE	MTD W/ R1–1	INCLUDED UNDER ITEM 874.	
D3–1B	36"	8"	Channing Rd	4D/3D	1.75"/2.75" 4D/3D 2.25"		2	GREEN	WHITE	WHITE	P–5 1 REQ'D	INCLUDED UNDER ITEM 874.	
D3–1D	36"	8"	Brighton St	4D/3D	1.75"/2.75" 4D/3D 2.25"		2	GREEN	WHITE	WHITE	P–5 1 REQ'D	INCLUDED UNDER ITEM 874.	
D11–1	24"	18"	BIKE ROUTE	①	①		5	GREEN	WHITE	WHITE	P–5 5 REQ'D	3.00	15.00
M4–6	24"	12"	END				1	GREEN	WHITE	WHITE	MTD W/ D11–1	2.00	9.00
M6–2	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11–1	2.19	2.19
M6–3	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11–1	2.19	2.19
W2–6	18"	18"		↓	↓	↓	4	YELLOW	BLACK	BLACK	P–5 4 REQ'D	2.25	9.00

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	82	199
PROJECT FILE NO.	609204		

TRAFFIC SIGN SUMMARY

IDENTIFI–CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK–GROUND	LEGEND	BORDER			
W11–1	36"	36"		①	①	①	2	FLUOR–ESCENT YELLOW GREEN	BLACK	BLACK	P–5 2 REQ'D	9.00	18.00
W11–2	36"	36"					1	FLUOR–ESCENT YELLOW GREEN	BLACK	BLACK	P–5 1 REQ'D	9.00	9.00
W11–15	30"	30"					1	FLUOR–ESCENT YELLOW GREEN	BLACK	BLACK	P–5 1 REQ'D	6.25	6.25
W11–15P	24"	18"	TRAIL CROSSING				1	FLUOR–ESCENT YELLOW GREEN	BLACK	BLACK	MTD W/ W11–15	3.00	3.00
W11–16aP	18"	12"	IN STREET				2	FLUOR–ESCENT YELLOW GREEN	BLACK	BLACK	MTD W/ W11–1	1.50	5.00
W16–17P	12"	6"	ROUNDABOUT	↓	↓	↓	5	YELLOW	BLACK	BLACK	MOUNT W/ W11–2	0.50	2.50

① SEE MUTCD 11TH EDITION (2023), THE 2012 SUPPLEMENT TO THE 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.

② SEE STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, 1990.

③ STREET NAME SIGNS THAT ARE MOUTHED ON P–5 POSTS SHALL BE ORDERED TWO SIGNS PER LOCATION AND SHALL BE MOUNTED WITH BOLT–THROUGH METHOD.

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609204_HD(SIGN & PAVE MARK).DWG Plotted on ---- ----

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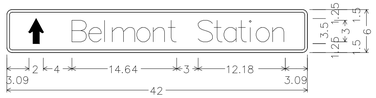
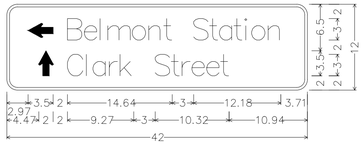
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	83	199
PROJECT FILE NO.		609204	

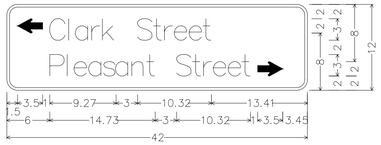
TRAFFIC SIGN DETAILS



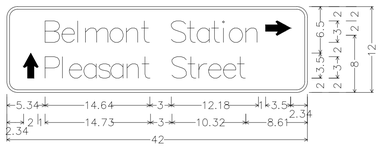
D1-1a1;
0.75" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
"Belmont Station", D 2K;



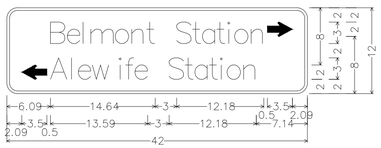
D1-2a1;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
Standard Arrow Custom 3.50" X 2.00" 90";
"Belmont Station", D 2K; "Clark Street", D 2K;



D1-2a2;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
"Clark Street", D 2K; "Pleasant Street", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

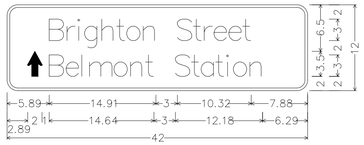


D1-2a3;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
"Belmont Station", D 2K; "Pleasant Street", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

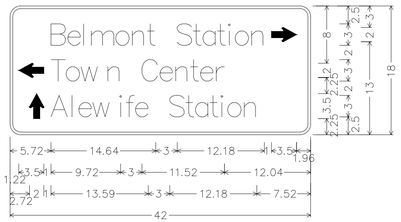


D1-2a4;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
"Belmont Station", D 2K; "Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

D1-2a5;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
"Brighton Street", D 2K; "Alewife Station", D 2K;

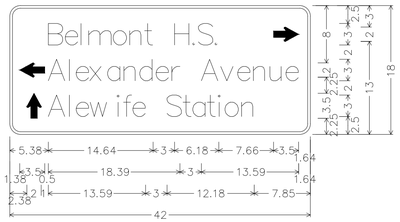


D1-2a6;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
"Brighton Street", D 2K; "Belmont Station", D 2K;

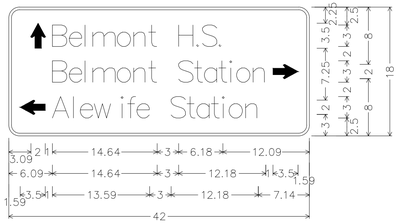


D1-3a1;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
Standard Arrow Custom 3.50" X 2.00" 90";
"Belmont Station", D 2K; "Town Center", D 2K;
"Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

D1-3a2;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
Standard Arrow Custom 3.50" X 2.00" 90";
"Town Center", D 2K; "Belmont Station", D 2K;
"Clark Street", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

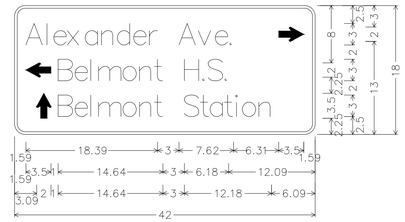


D1-3a3;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
Standard Arrow Custom 3.50" X 2.00" 90";
"Belmont H.S.", D 2K;
"Alexander Avenue", D 2K;
"Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

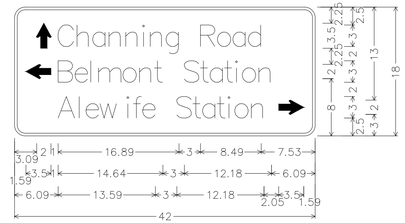


D1-3a4;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
Standard Arrow Custom 3.50" X 2.00" 180";
"Belmont H.S.", D 2K; "Belmont Station", D 2K;
"Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

D1-3a5;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
Standard Arrow Custom 3.50" X 2.00" 180";
"Channing Road", D 2K;
"Belmont Station", D 2K; "Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";



D1-3a6;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180";
Standard Arrow Custom 3.50" X 2.00" 90";
"Alexander Ave.", D 2K; "Belmont H.S.", D 2K;
"Belmont Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";



D1-3a7;
1.5" Radius, 0.375" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90";
Standard Arrow Custom 3.50" X 2.00" 180";
"Channing Road", D 2K;
"Belmont Station", D 2K; "Alewife Station", D 2K;
Standard Arrow Custom 3.50" X 2.00" 0";

NO TRESPASSING SIGN

- Signs to be 0.081" thick aluminum alloy sheet - ASTM B 209
- White reflectorized background. FS L-S-300 A TYPE, Class I or 2, reflectivity 1
- Black gloss silk screen letters MHD materials spec. M7.04.12

NOTES:

1. Free standing signs not attached to fences to be mounted on steel "U" shaped posts.
2. Place signs on both sides of right of way facing back towards highway grade crossing, at end of station platforms and at any location where trespassing is a problem.
3. Place on ROW fences at intervals not exceeding 200' (see Dwg. No.3206) and on all gates (see Dwg. No.3208).
4. All signs shall have six holes drilled to allow mounting on either posts or fence fabric.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY | RAILROAD OPERATIONS | DWG. NO. 3352 | Oct. 28, 1992 | ISSUE DATE | 1 | ISSUE NO.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	84	199
PROJECT FILE NO.	609204		

TRAFFIC SIGNAL PLAN

RAILROAD CROSSING GATE AND RRFB NOTES:

1. RETAIN ALL EXISTING RAILROAD SIGNAL EQUIPMENT AND CONDUIT CONNECTIONS UNLESS OTHERWISE NOTED.
2. CONSTRUCTION OF THE RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", LATEST EDITION. AS AMENDED, THE 2023 FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (MUTCD) LATEST EDITION AS AMENDED.
3. POLE MOUNTED ASSEMBLIES SHALL HAVE 2 FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND SIGNAL VISOR. PROVIDE SPECIAL MOUNTING HARDWARE AS APPLICABLE.
4. THE PROPOSED ACCESSIBLE PUSH BUTTONS SHALL BE CONSTRUCTED AT AN ACCESSIBLE HEIGHT AND REACH PER MASS AAB 521 CMR 21.10.3 AND 521 CMR 21.10.4 GUIDANCE.
5. SEE SHEETS 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

PROPOSED EQUIPMENT LAYOUT TABLE

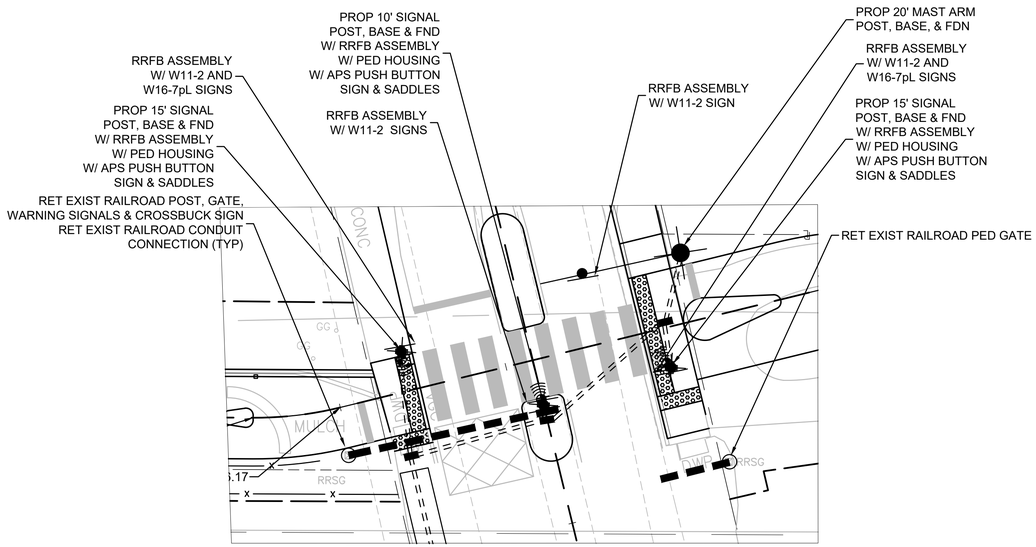
NO.	SIGNAL EQUIP. DESCRIPTION.	STATION	OFFSET TO CENTER
#1	CONTROLLER CABINET	BRIGHTON STREET - STA 201+04.24	32.10' RT
#2	BATTERY BACK UP CABINET	BRIGHTON STREET - STA 201+03.07	36.85' RT
#3	15' MAST ARM FOUNDATION	BRIGHTON STREET - STA 200+99.92	16.55' LT
#4	15' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+79.19	17.46' LT
#5	20' MAST ARM FOUNDATION	BRIGHTON STREET - STA 201+82.76	23.32' RT
#6	15' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+67.85	18.53' RT
#7	10' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+67.09	0.00' CL
#8	10' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+11.18	0.00' CL
#9	15' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 200+97.60	18.65' RT

MAJOR ITEMS REQUIRED		
PAY ITEM	QUANTITY	ITEM
825.01	1	SIZE P CABINET
	1	BATTERY BACKUP, SIZE M CABINET
	2	10' SIGNAL POLE, BASE, & FDN.
	2	15' SIGNAL POLE, BASE, & FDN.
	1	15 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	1	20 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	3	PEDESTRIAN PUSH BUTTON, SIGN & SADDLES (APS)
	7	SHARED USE PATH CROSSING SIGNS (W11-15)
	2	"AHEAD" PLAQUE (W16-9P)
	2	DIAGONAL LEFT ARROW PLAQUE (W16-7pL)
804.3	204'	3" CONDUIT, TYPE NM
811.32	2	12" X 24" HANDHOLE (MASSDOT)
		Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

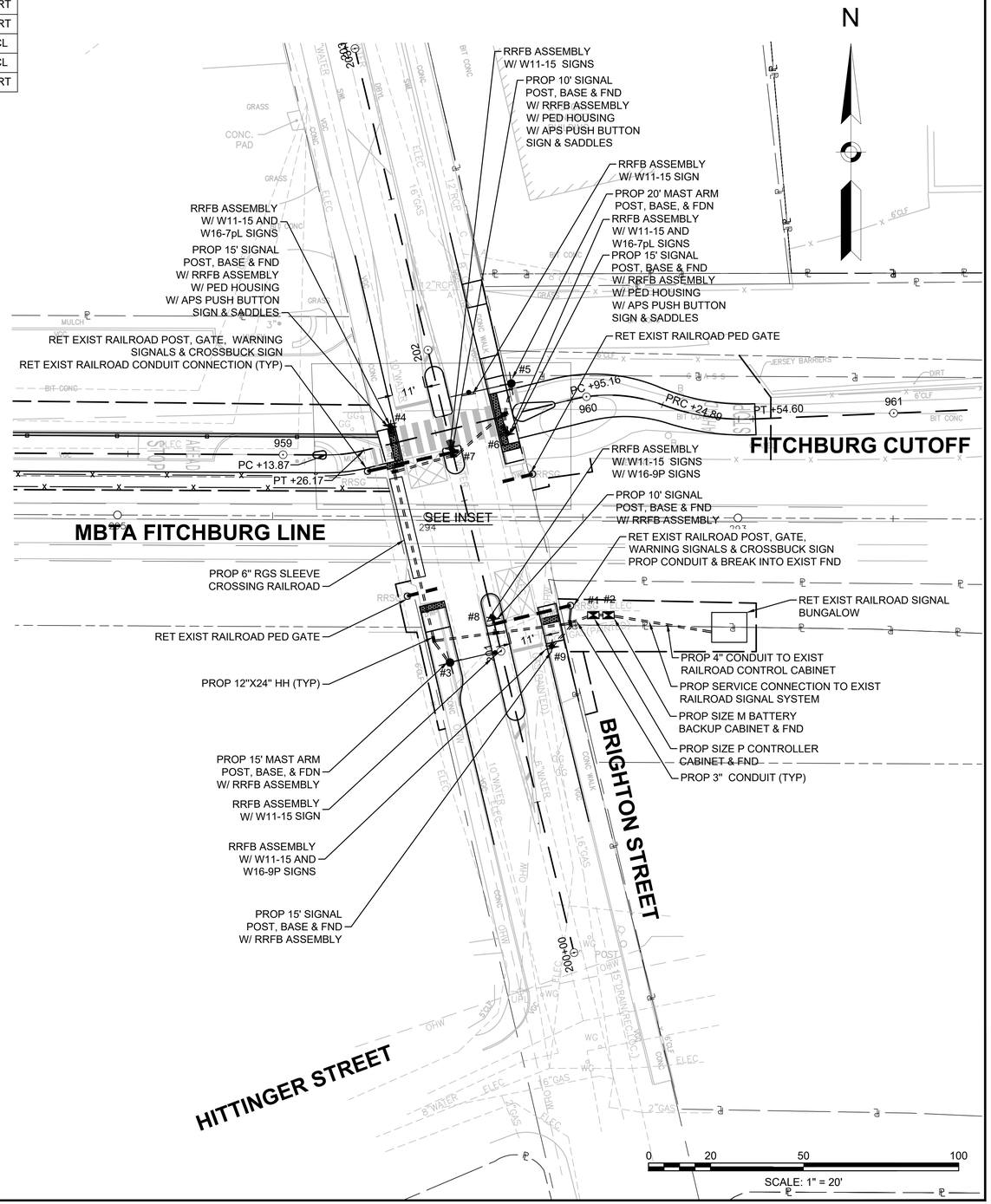
RRFB SEQUENCE	
BRIGHTON STREET AT BELMONT COMMUNITY PATH	
FLASHING DURATION	13 SECONDS

MAST ARM FOUNDATION DESIGN SUMMARY TABLE

MAST ARM FOUNDATION DESIGN SUMMARY TABLE											
STREET	LOCATION	STATION	OFFSET	DESIGN BORING	SOIL TYPE	WIND SPEED	MAST ARM LENGTH (FT)	DIAMETER	DEPTH	VERT. BARS	TIE BARS
BRIGHTON STREET	#3	200+99.92	16.55' LT	B-1	STIFF CLAY (FINE)	130	15'	3'-6"	12'-6"	18-#8	#5@12"
BRIGHTON STREET	#5	201+82.76	23.32' RT	B-2	STIFF CLAY (FINE)	130	20'	3'-6"	12'-6"	18-#8	#5@12"



INSET



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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	85	199
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS

TRAFFIC MANAGEMENT NOTES:

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION WITH MASSACHUSETTS AMMENDMENTS, THE STANDARD SPECIFICATIONS, THE PROJECT SPECIAL PROVISIONS, AND THE FOLLOWING NOTES.
2. THE TRAFFIC MANAGEMENT PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE MUTCD AND AS APPROVED OR DIRECTED BY THE ENGINEER.
3. NO CONSTRUCTION VEHICLES SHALL BE PARKED WITHIN THE TRAVEL WAY WITHOUT PROPER PROTECTION AND APPROVAL OF THE ENGINEER.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. ALL WARNING SIGNS SHALL BE BLACK LEGEND ON A REFLECTIVE ORANGE BACKGROUND AND IN ACCORDANCE WITH THE MUTCD. ALL REGULATORY SIGNS SHALL BE BLACK LEGEND ON A WHITE REFLECTIVE BACKGROUND. ALL CONSTRUCTION SIGNS SHALL BE ATTACHED TO THEIR OWN INDEPENDENT SUPPORTS UNLESS SHOWN OTHERWISE.
6. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID PLACING TEMPORARY TRAFFIC CONTROL DEVICES ON PRIVATE PROPERTY. IF SUCH PLACEMENT ON PRIVATE PROPERTY IS UNAVOIDABLE, IT SHALL BE DONE WITH THE EXPLICIT APPROVAL OF THE PROPERTY OWNER AND THE ENGINEER.
7. ABUTTER ACCESS SHALL NOT BE CLOSED EXCEPT FOR SHORT PERIODS AND ONLY WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
8. CONSTRUCTION OPERATIONS SHALL NOT OCCUR DURING PEAK PERIODS (7-9 AM, 4-6 PM) IF ANY ACTIVE TRAVEL LANES WILL BE RESTRICTED.
9. THE CONTRACTOR SHALL PROVIDE IMMEDIATE ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
10. GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
11. GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A TRANSITION OF GRAVEL OR OTHER MATERIAL TO BE COMPACTED AT A 4:1 SLOPE, AND DELINEATED BY DRUMS.
12. CONSTRUCTION SIGNS NOT APPLICABLE TO VARIOUS STAGES OF CONSTRUCTION SHALL BE REMOVED OR COVERED.
13. USE MA-W20-7b SIGNS ONLY WHEN POLICE OFFICER IS DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH OPERATION.
14. MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK AREA AT ALL TIMES. THE POLICE DETAIL SHALL PROVIDE CONTROL TO CROSS PEDESTRIANS ON ROADWAY TO SIDEWALK. PROVIDE TEMPORARY CROSSWALKS AND RAMPS AS NEEDED AND AS DIRECTED BY THE ENGINEER.
15. ALL CONSTRUCTION SIGNING AND OTHER TRAFFIC MAINTENANCE DEVICES SHALL CONFORM WITH THE 2009 MUTCD AS AMENDED, MASH, AND MASSDOT STANDARDS.
16. ADVANCE WARNING SIGNS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL EITHER BE COVERED OR REMOVED AS SOON AS POSSIBLE. NO SIGN SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL ROADWAY CONDITIONS.
17. ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.HOWEVER, MINIMUM DISTANCES, WHERE INDICATED, SHOULD BE MAINTAINED.
18. THE CONTRACTOR SHALL USE TEMPORARY PATCHING OR BEVELED STEEL PLATES TO COVER PIPE TRENCHES AND OTHER EXCAVATED HOLES NOT COMPLETED BY THE END OF EACH WORK DAY.
19. ALL DRUMS WITH FLASHERS, SIGNS AND SIGN SUPPORTS MUST PASS THE CRITERIA SET FORTH IN MASH RECOMMENDED PROCEDURES FOR THE SAFETY EVALUATION OF HIGHWAY FEATURES.
20. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH WILL BE MEASURED FROM THE EDGE OF DRUMS OR CONES.
21. ORANGE CONSTRUCTION FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
22. MAINTAIN EXISTING PAVEMENT MARKINGS WHERE APPLICABLE. WHEN LANES SHIFT, IF NECESSARY, EXISTING MARKINGS SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED.
23. AT THE END OF EACH WORK DAY, NO TRAFFIC CONTROL DEVICES SHALL REMAIN IN THE ROADWAY AND ALL LANES SHALL BE OPEN FOR TRAFFIC FLOW.
24. THE CONTRACTOR MAY PROPOSE TO USE A DIFFERENT SEQUENCE OF WORK AREAS THAN WHAT IS BEING PROPOSED IN THESE DOCUMENTS. THE CONTRACTOR SHALL SUBMIT PHASING AND TRAFFIC MANAGEMENT PLANS FOR APPROVAL BY THE ENGINEER.
25. MAXIMUM SPACING OF CHANNELIZING DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. (20' SPACING TYPICAL ON TAPER, 35' SPACING TYPICAL ON TANGENTS.)
26. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS.
27. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.
28. POLICE DETAIL SHALL BE USED WHILE SETTING UP THE TEMPORARY TRAFFIC CONTROL DEVICES ON THE ROADWAY.
29. EACH WORK ZONE SHALL HAVE MA-R2-10a, MA-R2-10e, AND W-20 SERIES SIGNS WHERE APPLICABLE.
30. POLICE DETAILS SHALL BE EMPLOYED AND SHALL BE SUBSTITUTED WITH CERTIFIED ROADWAY FLAGGERS AS DIRECTED BY THE ENGINEER AND PER SECTION 850 "TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" IN THE MASSDOT SUPPLEMENTAL SPECIFICATIONS DATED JUNE 2025.
31. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
32. ALL DRIVEWAYS AND STREETS SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR SHORT PERIODS AS APPROVED BY THE ENGINEER.
33. SEE SHEETS 79-81 FOR ADDITIONAL TYPICAL TEMPORARY TRAFFIC CONTROL PLAN DETAILS.

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICAPATED OPERATING SPEED IN MPH (KM/H)

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

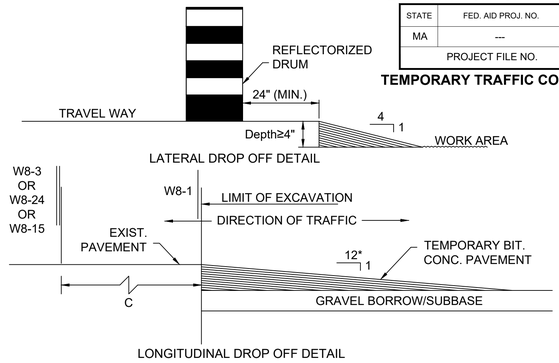
*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

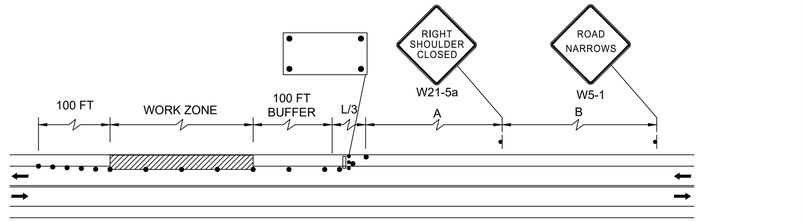
THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

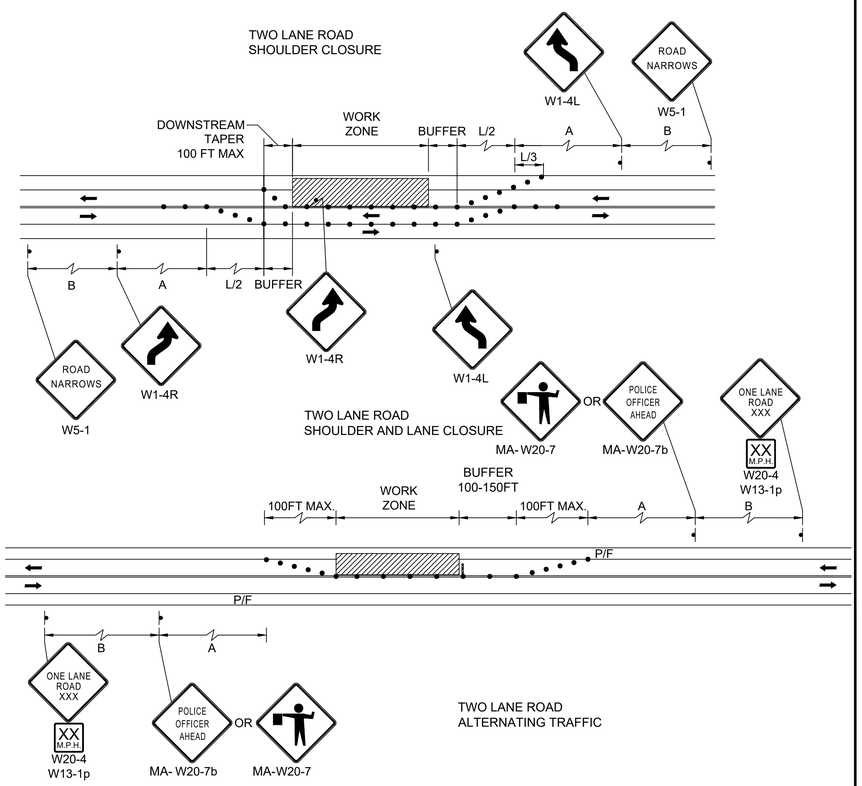
LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- P/F POLICE/FLAGGER DETAIL
- TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN
- ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR
- MEDIAN BARRIER
- MEDIAN BARRIER WITH WARNING LIGHTS
- WORK VEHICLE
- TRUCK MOUNTED ATTENUATOR
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN



* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS





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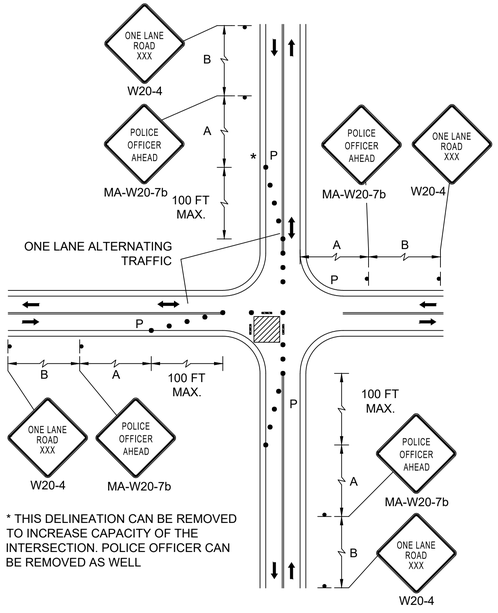
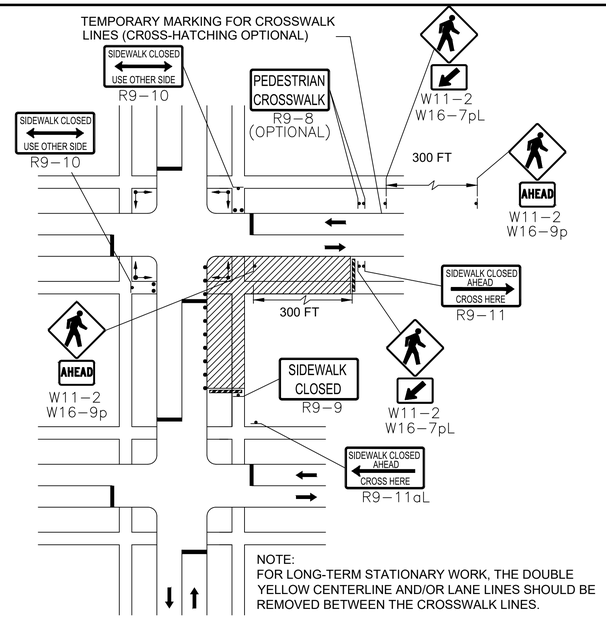
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	86	199
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS

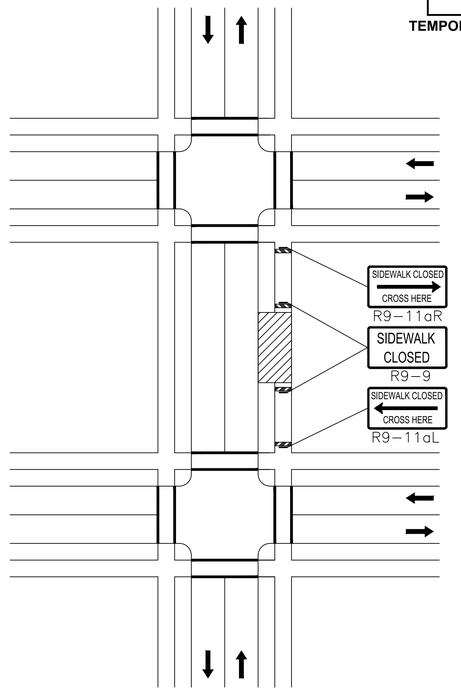


SINGLE LANE APPROACH
ONE QUADRANT CLOSURE



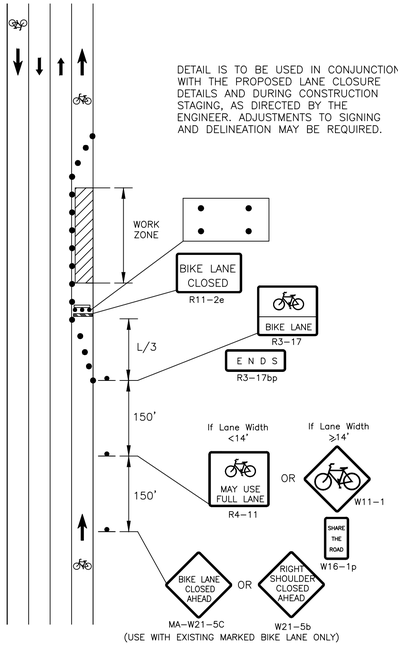
NOTE:
FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

PEDESTRIAN DETOUR

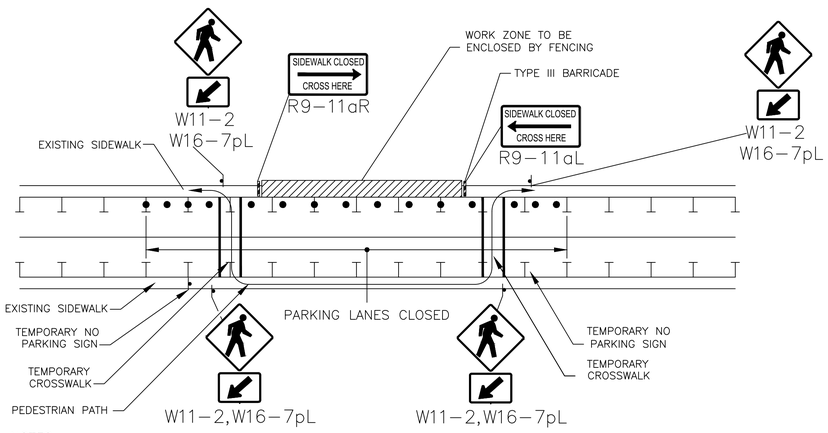


NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. All PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

SIDEWALK CLOSED WITHOUT DETOUR

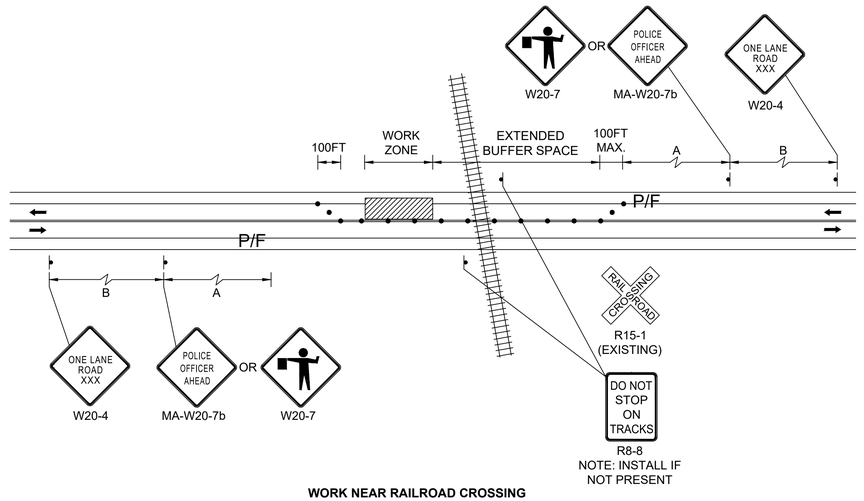


BIKE LANE CLOSURE
WITHOUT DETOUR



NOTES
1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMPS WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
5. BYPASS IS TO BE USED IN CONJUCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

PEDESTRIAN BYPASS



WORK NEAR RAILROAD CROSSING

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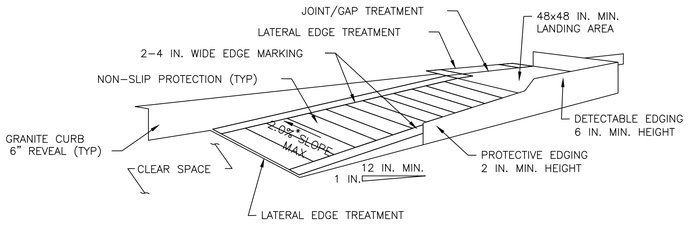
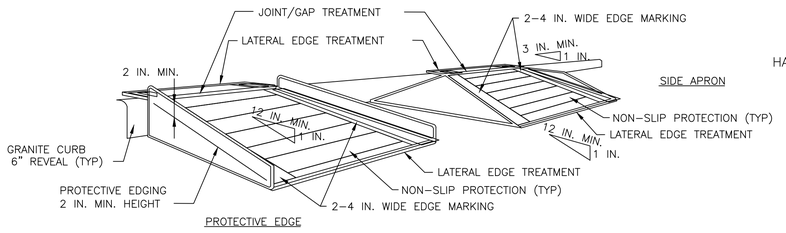
NOTES:

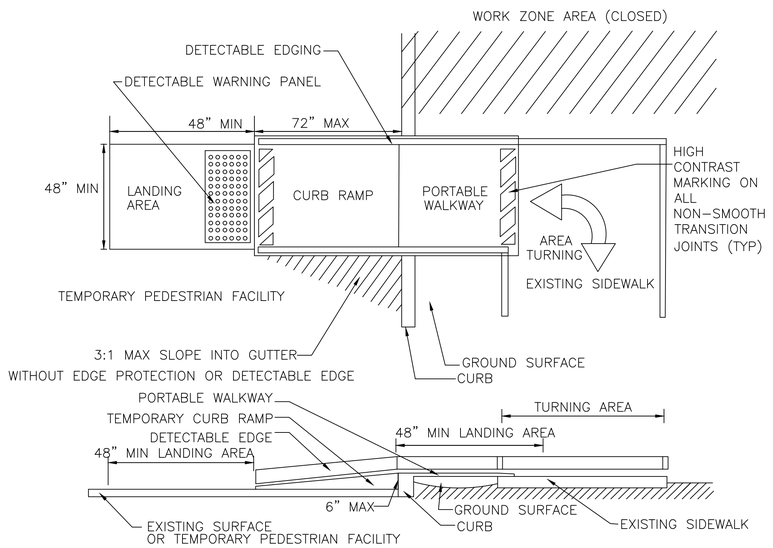
1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
5. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR 2 TO 4 IN. WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.

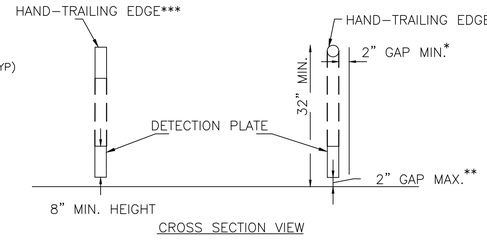




TEMPORARY CURB RAMP - PERPENDICULAR TO CURB

NOT TO SCALE





CROSS SECTION VIEW

PEDESTRIAN CHANNELIZING DEVICE

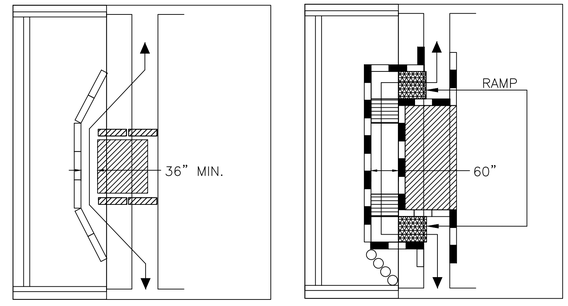
NOT TO SCALE

NOTES:

* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.

** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE

*** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTHOF THE PATH SUCH THAT A PEDESTRIAN USERWITH A LONG CANE CAN FOLLOW IT.



- When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
- A pedestrian channelizing device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
- When used, temporary ramps shall comply with Americans with Disabilities Act (see Figures Ped-1 & Ped-2).
- The alternate pathway should have a smooth continuous hard surface for the entire length of the temporary pedestrian facility.
- The protective requirements of a TTC situation have priority in determining the need for temporary traffic barriers and their use in this situation should be based on engineering judgment.
- Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

AUDIBLE DEVICES

For long term sidewalk closures (at a minimum overnight) a form of speech messaging for pedestrians with visual disabilities shall be provided. Audible information devices such as detectable barriers or barricades and other passive pedestrian activation (motion activated) devices should be considered for these cases. These audible devices can be mountable or stand alone.

PEDESTRIAN DETAILS

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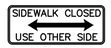
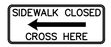
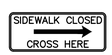
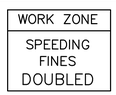
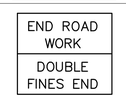
CONSTRUCTION SIGN SUMMARY

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	88	199
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	SIGN DIAGRAM	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	# REQ'D *	UNIT AREA S.F.	AREA IN SQUARE FEET
W1-4L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W1-4R	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W5-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W11-1	30"	30"		FLUORESCENT ORANGE	BLACK	BLACK	1	6.25	6.25
W11-2	30"	30"		FLUORESCENT ORANGE	BLACK	BLACK	4	6.25	25.00
W13-1p	24"	24"		FLUORESCENT ORANGE	BLACK	BLACK	2	4.00	8.00
W16-1p	18"	24"		FLUORESCENT ORANGE	BLACK	BLACK	1	4.00	4.00
W16-9p	24"	12"		YELLOW	BLACK	BLACK	4	2.00	8.00
W20-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	5	9.00	45.00
W20-4	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
MA-W20-7b	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W21-5a	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00
W21-5C	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	SIGN DIAGRAM	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	# REQ'D	UNIT AREA S.F.	AREA IN SQUARE FEET
R3-17	24"	18"		BLACK	WHITE	WHITE	1	3.00	3.00
R3-17bp	24"	8"		WHITE	BLACK	BLACK	1	1.33	1.33
R4-11	24"	24"		WHITE	BLACK	BLACK	2	2.00	4.00
R9-8	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-9	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	4	2.00	8.00
R9-10	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aL	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aR	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R11-2e	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
MA-R2-10a	48"	36"		FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72
MA-R2-10e	36"	48"		FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72

* NO. OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY

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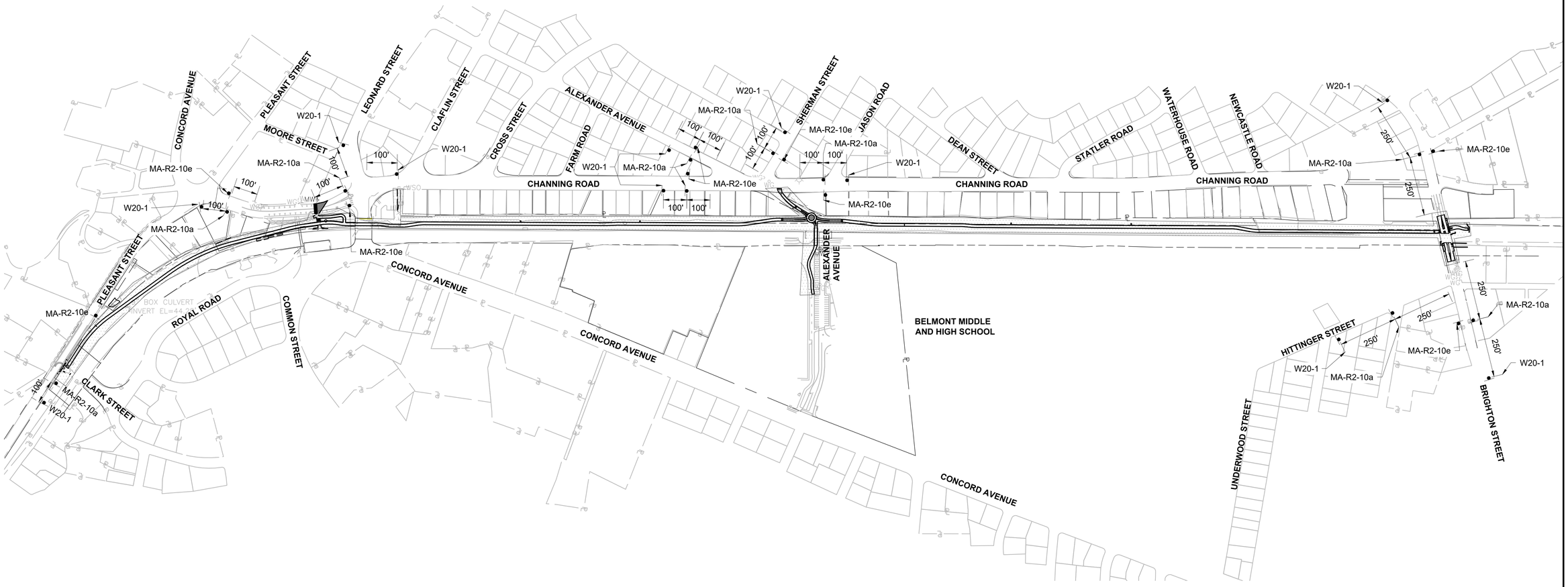
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	89	199
PROJECT FILE NO.	609204		

TEMPORARY TRAFFIC CONTROL PLANS



ADVANCE SIGNGE PLAN

NTS

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ELECTRICAL LEGEND:

- WP 1 — GROUND FAULT INTERRUPTING (GFI) TYPE DUPLEX CONVENIENCE OUTLET. MOUNTED 18" ABOVE FINISHED FLOOR
  - WP - DENOTES TO BE PROVIDED WITH A WEATHERPROOF "IN-USE" COVER
- TC — 7 DAY, ASTRONOMICAL, DAY OMITTING, 24 HOUR TIMECLOCK WITH SKIP A DAY FEATURE. SIMILAR TO PARAGON 4 POLE EC7000 SERIES
- ELECTRICAL HANDHOLE
- SCA — SECIRTY CAMERA HANDHOLE
- AV — CAMERA SYSTEM AUDIO / VIDEO HANDHOLE
- FUSED DISCONNECT SWITCH. SIZE AND RATING AS INDICATED ON DRAWINGS
- M — METER
- UTILITY POLE
- 20A 1P — CIRCUIT BREAKER
  - TOP VALUE DENOTES BREAKER RATING
  - BOTTOM VALUE DENOTES NUMBER OF POLES
- CURRENT TRANSFORMER
- TRANSFORMER
- GROUND CONDUCTOR
- HOMERUN TO PANEL AS INDICATED ON DRAWINGS
- CONDUIT STUB
- WIRE BREAK
- POWER WIRING / CONDUIT
- TELEPHONE / DATA CONDUIT
- CAMERA AUDIO, VIDEO AND FIBER WIRING / CONDUIT
- POLE TOP LUMINAIRE

ABBREVIATIONS & NOTATION

- 1 — REVISION TAG
  - 1 - DENOTES REVISION NUMBER

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
EX	EXISTING TO REMAIN
ER	EXISTING RELOCATED
ED	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO BE RELOCATED
EXR	EXISTING TO BE REPLACED
EXP	EXPLOSION PROOF
GC	GENERAL CONTRACTOR
IG	ISOLATED GROUND
MC	MECHANICAL CONTRACTOR
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PC	PHOTOCELL
TR	TAMPER RESISTANT
WP	WEATHERPROOF

ELECTRICAL SPECIFICATIONS

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL CONSTRUCTION MATERIALS SHOWN OR REASONABLY IMPLIED ON THE DRAWINGS TO COMPLETE THE INSTALLATION IN A SATISFACTORY AND USABLE MANNER.

ALL WORK SHALL BE IN A MANNER TO COMPLY WITH THE REQUIREMENTS OF BROWN UNIVERSITY. THE WISHES OF THE LOCAL FIRE DEPARTMENT AND ANY LOCAL OR STATE BODIES HAVING JURISDICTION.

ELECTRICAL CONTRACTOR SHALL OBTAIN A PERMIT AND PAY ALL PERMIT AND INSPECTION FEES FOR HIS WORK.

ALL MATERIALS SHALL BE NEW AND U.L. LISTED. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED AND SHALL REMOVE DEBRIS FROM THE SITE.

EQUIPMENT MANUFACTURERS SHALL BE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEERS.

ALL FEEDER RUNS TO HAVE NO MORE THAN 4-90 DEGREES BENDS.
PROVIDE HAND HOLES FOR FEEDER RUNS WITH MORE THAN 4-90 DEGREES BENDS OR OVER 150'. ALL HAND HOLES TO BE IN ACCESSIBLE LOCATIONS.

CONDUIT BENDS TO HAVE MINIMUM RADIUS OF 10 TIMES THE DIAMETER OF THE CONDUIT.

ALL DISTRIBUTION CONDUIT OR CONDUIT INSTALLED 18" BELOW GRADE CONDUIT EXPOSED TO OUTDOOR WEATHER SHALL BE HEAVY WALL GALVANIZED STEEL. CONDUIT COUPLINGS SHALL BE COMPRESSION TYPE.

ALL DISCONNECT SWITCHES, POWER PANELS, AND CIRCUIT BREAKERS SHALL BE CLEARLY IDENTIFIED.

ALL ELECTRICAL EQUIPMENT AND WORK EXPOSED TO OUTSIDE WEATHER SHALL BE WEATHERPROOF (NEMA 3R).

CONTRACTOR SHALL PURCHASE AND MAINTAIN SUCH INSURANCE THAT WILL PROTECT THE OWNER AND ENGINEER FROM AND AGAINST ANY CLAIMS, LOSS, COST OR DAMAGE FOR INJURY OR DEATH TO PERSONS OR DAMAGE TO PROPERTY INCLUDING COST OF LITIGATION AND ATTORNEY'S FEES) IN ANY MANNER ARISING FROM, INCIDENT TO, CONNECTED WITH, OR GROWING OUT OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, FURNISH CERTIFICATIONS OF INSURANCE IN THE AMOUNT REQUIRED BY THE OWNER AND LISTING THE OWNER AND THE ENGINEER TO BE HELD HARMLESS.

ALL POWER AND LIGHTING WIRE SHALL BE MINIMUM NO. 12 AWG COPPER OR AS OTHERWISE INDICATED ON THE DRAWINGS, (TYPE "THWN")

THIS CONTRACTOR SHALL SPECIFICALLY NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE ONLY THE EXTENT DIAGRAMMATICALLY, THE GENERAL LOCATION AND CHARACTER OF THE WORK INCLUDED. WORK INTENDED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN IN THE DRAWINGS ARE FOR IDENTIFICATION ONLY. THE BALANCING OF THE LOADS ON THE PANELS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL EQUIPMENT AND CONTROLS NOTED "BY THE OWNER" THROUGHOUT THE ELECTRICAL PLANS WILL BE FURNISHED BY ANOTHER DIVISION OF THE CONTRACT BUT SHALL BE RECEIVED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ALL SIZES REGARDING PROTECTION, FEEDERS, AND CONTROLS ARE BASED ON THE PRELIMINARY DESIGN DATA. ELECTRICAL CONTRACTOR TO REVIEW EXISTING AND NEW NAMEPLATE DATA, MOTOR RATINGS AND LOADS REQUIREMENTS AND PROVIDE ANY NEEDED ADJUSTMENTS.

THE CONTRACTOR SHALL VISUALLY SURVEY THE PREMISES BEFORE SUBMITTING HIS PROPOSAL AND IF THERE ARE ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS HE SHALL CONSULT THE OWNER/ENGINEER FOR CLARIFICATION. ON SUBMISSION OF HIS PROPOSAL IT SHALL BE AGREED BY ALL PERSONS INVOLVED THAT THE WORK CAN BE AND WILL BE INSTALLED AS SHOWN OR AS MODIFIED IN WRITING BY THE OWNER/ENGINEER. ALSO, HE SHOULD FAMILIARIZE HIMSELF WITH THE SCHEDULE OF CONSTRUCTION. SHOP DRAWINGS FOR ALL SPECIFIED EQUIPMENT, MATERIAL, ETC. SHALL BE SUBMITTED FOR APPROVAL PRIOR TO THE PROCUREMENT.

PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL DISTRIBUTION POWER EQUIPMENT AND PANELS.

ALL CONDUIT SHALL BE SIZED ACCORDING TO CODE UNLESS OTHERWISE NOTED ON THE DRAWINGS. MINIMUM SIZE TO BE USED IS 3/4".

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODES, AS WELL AS THE LATEST MASSACHUSETTS ELECTRICAL CODE, LOCAL FIRE DEPARTMENT AND OSHA REQUIREMENTS.

ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND MANUFACTURERS EQUIPMENT DATA AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.

ALL ELECTRICAL EQUIPMENT (PANELS, CONDUIT, WIRE, ETC.) AND RACEWAY SHALL BE PROPERLY SUPPORTED WITHIN TRENCHES.

THE CONTRACTOR SHALL GUARANTEE ALL OF HIS WORK FOR ONE YEAR AFTER THE DATE OF WRITTEN ACCEPTANCE BY THE OWNER AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP. ALL SUCH DEFECTS APPEARING WITHIN THE GUARANTEE PERIOD SHALL BE PROMPTLY REMEDIED WITHOUT CONST OF OWNER. ALL ELECTRICAL EQUIPMENT INSTALLATIONS SHALL BE GUARANTEED TO OPERATE SATISFACTORY. THE CONTRACTOR MUST VERIFY EXISTING CONDITIONS AND LOCATIONS IN THE FIELD, PRIOR TO SUBMITTING A PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.

THE CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID CONDITIONS NOT SHOWN ON PLANS WITHOUT ANY FURTHER COST TO THE OWNER.

THE CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ENGINEER ANY LACK OF THE SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE THE CONTRACT IS SIGNED.

THE CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS RESULTING FROM HIS WORK ON A DAILY BASIS. THE JOB SITE MUST BE LEFT CLEAN AND TIDY AT THE END OF EACH WORKDAY. RUBBISH NOT REMOVED BY THE CONTRACTOR WILL BE REMOVED BY THE GENERAL CONTRACTOR AND THERE WILL BE BACK CHARGES TO THE CONTRACTOR.

ALL CONDUIT, RACEWAY, AND ELECTRICAL APPARATUS SHALL BE INSTALLED AS NEATLY AS POSSIBLE AND IN SUCH A MANNER AS TO AFFORD MINIMUM INTERFERENCE WITH OTHER TRADES.

ALL CONDUIT SHOULD BE SUPPORTED A MINIMUM OF 6 FEET ON CENTER AND WITHIN 3 FEET OF COUPLINGS IN COMPLIANCE WITH CODE REQUIREMENTS.

ALL JUNCTION BOXES AND SUPPORT BOXES ARE TO BE SUPPORTED

NO FLEXIBLE ELECTRICAL METALLIC CONDUIT (GREENFIELD) SMALLER THAN 1/2 INCH SHALL BE USED UNLESS SPECIAL PERMISSION IS GRANTED.

THE AMPACITY OF THE MULTIPLE CONDUCTORS IN ONE CONDUIT SHALL BE RATED PER NEC TABLE 310.15(B)(3)(a).

ALL CONDUIT BREAKERS SHALL BE THE BOLT-ON TYPE.

ALL RECEPTACLES ARE TO BE RATED FOR 20 AMPS. (MINIMUM)

ANY EQUIPMENT AND RECEPTACLES INSTALLED MUST BE IDENTIFIED ON THE DIRECTORY CARD WITH THE DATE IN THE ELECTRICAL AND POWER PANELS.

WHEN INSTALLING ELECTRICAL PANELS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL THE CIRCUITS ON THE DIRECTORY CARD WITH THE DATE.

COLOR CODE FOR CONDUCTORS FOR SECONDARY FEEDERS AND BRANCH CIRCUITS ARE TO BE AS INDICATED BEL0W:

PHASE	120/240 VOLT
A----	BLACK
B----	RED
NEUTRAL	WHITE
GROUND-	GREEN

ELECTRICAL METALLIC CONDUIT ALONG WITH COMPRESSION CONNECTORS AND COUPLING MAY BE USED IN DRY AREAS ONLY..

TO ASSURE EFFECTIVE GROUNDING, ALL CONDUIT, EQUIPMENTS, AND METAL ENCLOSURE SHALL HAVE A CONTINUOUS PATH TO GROUND WITH SUFFICIENTLY LOW IMPEDANCE TO LIMIT THE POTENTIAL ABOVE GROUND, AND TO FACILITATE THE OPERATION OF THE OVER CURRENT DEVICES IN THE CIRCUITS.

STANDARD WIRING SHALL BE OF THHN INSULATION AND THWN INSULATION FOR AREAS WITH HIGH MOISTURE. NO TW INSULATION IS PERMITTED.

THE PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL AS-BUILT DRAWINGS WITH HOME RUNS IDENTIFIED ARE RECEIVED BY THE OWNER.

ALL CONTRACTORS MUST FOLLOW STANDARD OSHA LOCK-OUT AND TAG-OUT PROCEDURES.

WHERE A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE DRAWINGS THE WORST CASE SCENARIO SHALL PREVAIL.

ALL DISTRIBUTION EQUIPMENT AND PANELBOARDS SHALL BE MANUFACTURED BY EATON / CUTLER HAMMER.

LOCATION: AS INDICATED — PANEL: "LP1" — VOLTAGE: 120/240V., 1Ø-3W 10k AIC
MOUNTING: AS INDICATED — RATING: 100A. — TYPE OF MAIN: 100A. M.C.B. 18 POLE

DESCRIPTION	VOLTAMPS ØA	VOLTAMPS ØB	FRAME	TRIP	POLES	CKTS	CKTS	POLES	TRIP	FRAME	VOLTAMPS ØA	VOLTAMPS ØB	DESCRIPTION
LIGHTING	400		-	15	1	1	2	1	15	-	360		RECEPTACLE
ENCLOSURE HEATER		500	-	15	1	3	4	1	15	-		500	TIMECLOCK
SPARE	·		-	15	1	5	6	1	15	-	·		SPARE
SPARE		·	-	15	1	7	8	1	15	-		·	SPARE
SPARE	·		-	15	1	9	10	1	15	-	·		SPARE
SPARE		·	-	15	1	11	12	1	15	-		·	SPARE
SPARE	·		-	15	1	13	14	1	15	-	·		SPARE
SPARE		·	-	15	1	15	16	1	15	-		·	SPARE
SPARE	·		-	15	1	17	18	1	15	-	·		SPARE

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	90	199
PROJECT FILE NO.	609204		

LEGEND, SCHEDULE & NOTES

GENERAL NOTES

1. PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR.
2. MATERIALS
   a. ALL WIRING SHALL BE COPPER; CONDUCTORS WITH AMPACITIES OF 100 AMPS OR LESS OR CONDUCTORS MARKED AWG #14 THROUGH #1 SHALL BE 60°C. (UNLESS EQUIPMENT IS LISTED FOR HIGHER TEMPERATURES.) CONDUCTORS OF HIGHER AMPACITIES OR LARGER GAUGES SHALL BE 75°C. REFER TO 2014 NEC art. 110.15(C)(1)(a)(3). FOR TYPE "NM" CABLE, SEE PARAGRAPH (b) BELOW.
   b. WHERE TYPES "NM" / "NM-B", "NMC & "NMS" ARE USED, THEY SHALL HAVE AN ALLOWABLE AMPACITY AS LISTED IN THE 60°C (140°F) COLUMN IN THE 2014 NEC TABLE 310.15(B)(16). REFER TO 2014 NEC art. 334.80.
   c. GENERAL BRANCH WIRING SHALL BE TYPE "MC" CABLE FOR INTERIOR WIRING. EXPOSED BRANCH CIRCUIT WIRING SHALL BE IN "EMT".
   d. ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS' LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE. COLOR OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT.
3. PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ENGINEER.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES AND BACKCHARGES REQUIRED FOR THE PERFORMANCE OF HIS/HER WORK.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION OF WORK.
6. PANEL DIRECTORIES SHALL REFLECT THE WORK PERFORMED UNDER THIS CONTRACT. PANELS SHALL BE PROVIDED WITH TYPED DIRECTORIES.
7. ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
8. ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING. SPECIAL PURPOSE POWER REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS, COMPRESSORS, ETC.)
10. SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT, BEFORE PROCUREMENT OF EQUIPMENT.
11. ALL NEW WIRING INDICATED ON PLANS SHALL MATCH THE AMPACITY OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN. WHERE NO BREAKER SIZE IS INDICATED, THE BREAKER SHALL BE 20A/1P WITH #12 AWG CABLE.
12. WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL RUN CONTINUOUS THROUGHOUT CIRCUIT.
13. CONDUITS AND CIRCUITRY INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL LOCATION OF CONDUITS SHALL BE FIELD COORDINATED SO AS TO AVOID CONFLICTS WITH OTHER TRADES.
14. ALL 120 VOLT BRANCH CIRCUITS WHEN 100 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRE(S).
15. ALL 277 VOLT BRANCH CIRCUITS WHEN 200 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRE(S).
16. THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND EXACT LOCATIONS AGAINST LANDSCAPE ARCHITECTS PLANS AND DETAIL DRAWINGS.
17. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE SELECTIVE ARC FLASH/ COORDINATION STUDY.

ESD:1.DWG Plotted on 8-Sep-2025 1:41 PM

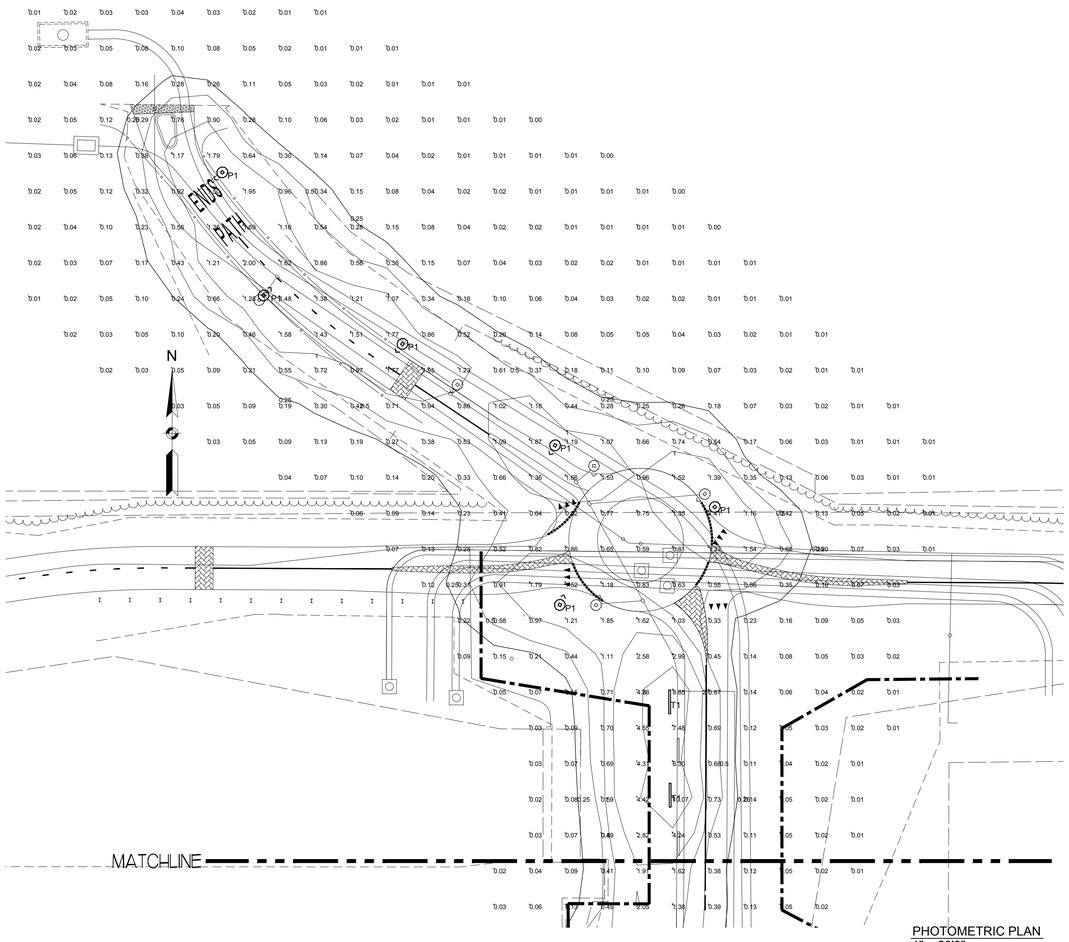
MassDOT DWT Name: ####################
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ###
Release Date: #########

LUMINAIRE SCHEDULE

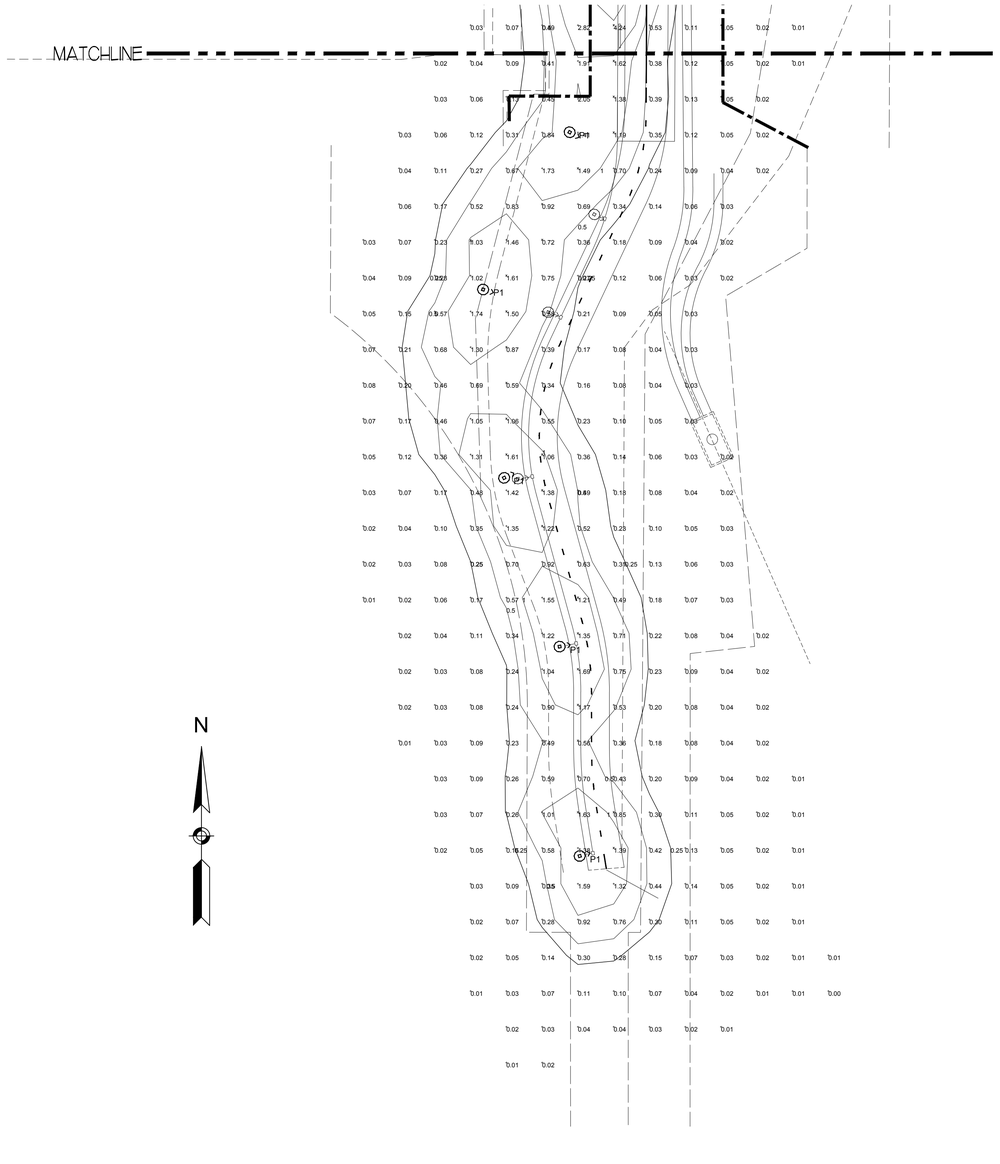
Symbol	Label	Qty	Catalog Number	Description	Lamp	Lumens	LLF	Watts
ⓟ	P1	11	GARDCO: PPT-140L-450-CW-G2-2--UNV	Pureform PEDESTRIAN Sconce (PPT), 140 LED's, 5000K CCT, TYPE 2 OPTIC (12'-0" MOUNTING HEIGHT)	(1) Circular Light Guide Plate DRIVEN AT 450mA	Absolute	1.00	22.30582
▬	T1	2	LUMEC: TBL2-24L-740-G1-DTA-350	Tubeline Tunnel Lighting, 2 meter	(2) LED Array DRIVEN AT 350mA	Absolute	1.00	30.6

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PATHWAY	✳	1.67 fc	10.07 fc	0.55 fc	18.3:1	3.0:1



PHOTOMETRIC PLAN
1" = 20'0"



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	91	199
PROJECT FILE NO.	609204		

PHOTOMETRIC PLAN

SHEET 01 - PHASE 1.DWG Plotted on 8-Sep-2025 1:41 PM

MassDOT DMT Name: ##########
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ####
Release Date: ########

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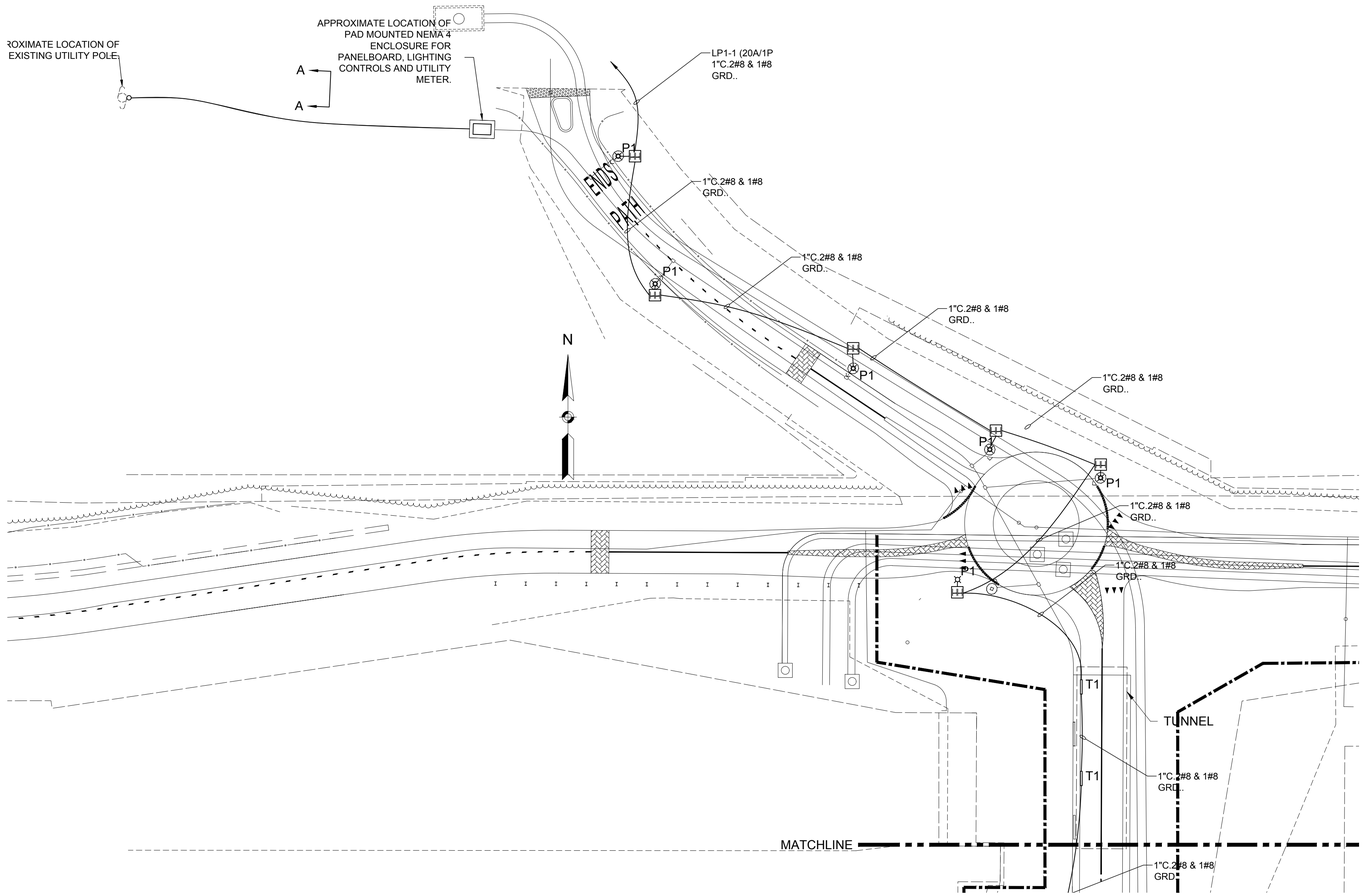
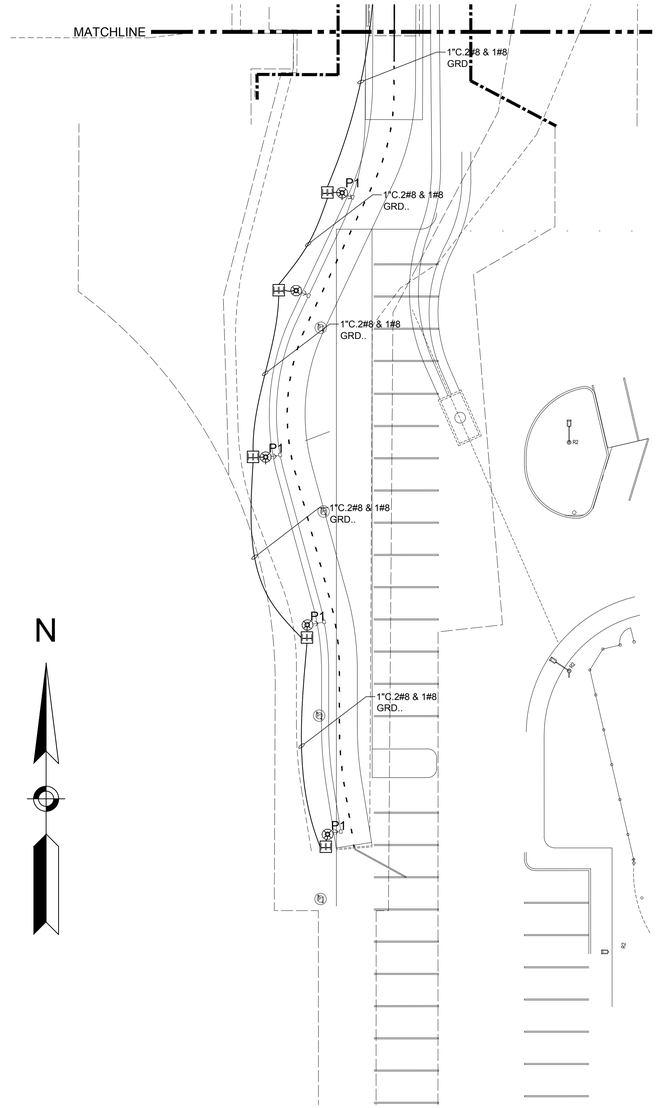
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	92	199
PROJECT FILE NO.	609204		

LIGHTING PLAN



SITE LIGHTING PLAN
SCALE: 1" = 20'-0"



SHEET 02 - PHASE 1.DWG Plotted on 8-Sep-2025 1:41 PM

MassDOT DWT Name: ##########
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ###
Release Date: ########

GARDCO by Signify

Site & Area

PureForm

PPT post top with comfort optics

Gardco PureForm LED post top features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 9000 lumens. A full range of control options provides additional energy savings. Optional integral emergency battery backup is available for path-of-egress illumination.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: PPT-140L-450-NW-G2-T3-1-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
PPT	**140L** 140 LEDs	**450** 450 mA **650** 650 mA **1150** 1150 mA [1] **1675** 1675 mA [1] **2100** 2100 mA [1,2]	**WW-G2** Warm White 3000K 70 CRI Generation 2 **NW-G2** Neutral White 4000K 70 CRI Generation 2 **CW-G2** Cool White 5000K, 70 CRI Generation 2 **WY-G2** Warm Yellow 2700K, 80 CRI Generation 2 [3] **BW-G2** Balanced White 3500K (80 CRI) Generation 2 [3] **AM-G2** Amber Generation 2 [3,5]	**T3** Mounts to a 3" x 4" Tenon (standard) **T2** Mounts to a 2-3/8" x 4" Tenon (must be ordered and shipped as a separate accessory)	**1** Comfort Type 1 **2** Comfort Type 2 **3** Comfort Type 3 **5** Comfort Type 5	Leave blank for no battery **EBPC** Emergency battery pack cold weather [14,15] **EBP** Emergency battery pack [14,15]	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V (50/60Hz) **HVU** 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing	Photo-sensing	Electrical/Shield	Finish	
DD 0-10V External dimming (by others) [4] **FAWS** Field Adjustable Wattage Selector [4,5] **SW** Interface module for SiteWise [4,6,8] **LLC** Integral wireless module [4,6,7,16] **BL** Bi-level functionality [4,8]	**IMR13** Integral with #3 lens [9]	**PCB** Photocontrol Button [10] **TLR05** Twist Lock Receptacle 5 Pin [4,6,7] **TLR07** Twist Lock Receptacle 7 Pin [4,6,7] **TLRPC** Twist Lock Receptacle w/Photocell [4,6,7]	**Fusing** **F1** Single (120, 277, 347VAC) [11] **F2** Double (208, 240, 480VAC) [11] **F3** Canadian Double-Pull (208, 240, 480VAC) [11] **Surge Protection** (10kA standard) **SP2** Increased 20kA **EHS** External house side shield (factory installed)	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)	

DynaDimmer: Automatic Profile Dimming [4,7]
CS50 Security 50% Dimming, 7 hours
CM50 Median 50% Dimming, 8 hours
CS30 Security 30% Dimming, 7 hours
CM30 Median 30% Dimming, 8 hours

1. 1150, 1675, and 2100mA not available with emergency battery backup (EBP).
2. 2100mA not available with emergency battery backup cold weather (EBPC).
3. Extended lead times apply. Contact factory for details.
4. Not available with other control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Available only in 120 or 277V.
9. Must specify Input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V.
12. Not available in 2100mA.
13. Not available with 120 and FAWS dimming control options.
14. Must specify a motion sensor lens.
15. Cannot be combined with HVU and BL-IMR13.

LFI INNOVATION AWARDS 3000K only

LUMEC by Signify

Tunnel

TubeLine

TBL Tunnel luminaire

Lumec TubeLine tunnel luminaire features a slim, low profile design that provides design flexibility for demanding tunnel applications. Product design consists of a luminaire and separate driver box, so please ensure to order both separately per the details below.

Project:
Location:
Cat.No:
Type:
Lumens: Qty:
Notes:

Ordering guide – Luminaire

example: TBL2-24L-740-G1-DTA-NB-0d1-W2S

Prefix	Module Length	LED Module Qty	CRI & CCT	Board Generation	Optical System	Mounting Bracket	Wire Entry
TBL TubeLine tunnel luminaire	**2** 2 meter **Note:** 1 meter version with 12 or 24 LEDs is available as special order. Please consult local representative.	**24L** 24 LEDs **48L** 48 LEDs	**730** 70CRI 3000K **740** 70CRI 4000K	**G1** Generation 1	**Asymmetrical:** **DTA** Standard Beam **DTA-NB** Narrow Beam **DTA-WB** Wide Beam **Symetrical:** **DTS** Standard Beam **DTS-NB** Narrow Beam **DTS-WB** Wide Beam	**0d1** Fix 0° version 1 **0d2** Fix 0° version 2 **SV** Swivel	**W1S** Wired 1 side **W2S** Wired 2 sides

Ordering guide – Driver Box

example 1 driver: TBX-1D-D-UNV-DMG-GY3
example 2 drivers: TBX-2D-F-F-UNV-DMG-GY3

Prefix	Driver Qty	Driver 1 Watt and Drive Current [1]	Driver 2 Watt and Drive Current [1,2]	Ballast	Driver Options [3]	Luminaire Options	Finish
TBX TubeLine tunnel/ underpass driver box	**1D** 1 Driver **2D** 2 Drivers	**A** [7,9] **B** [4] **C** **D** [7,9] **E** [4] **F** **G** [7,9] **H** [4] **I** **J** [7,9] **K** **L** [4]	**A** [7,9] **B** [4] **C** **D** [7,9] **E** [4] **F** **G** [7,9] **H** [4] **I** **J** [7,9] **K** **L** [4]	**UNV** 120-277VAC **HVU** 347-480VAC **120** [4] 120VAC **208** [4] 208VAC **240** [4] 240VAC **277** [4] 277VAC **347** [4] 347VAC **480** [4] 480VAC	**DMG** [4] 0-10V **DALI** [4] Digitally Adressable Lighting Interface **SRD** [4] Sensor Ready Driver standard configuration **SRD1** [4] Sensor Ready Driver alternate configuration	**API** Factory Installed NEMA label, ANSI C136.15 compliant **F1** [4,9] Single Fuse Holder **F2** [4,9] Double Fuse Holder **JB1** Junction Box, 1" NPT entries **JB2** Junction Box, 3/4" NPT entries **NER** [10] Nyx Emera Ready **SP2** 20kV / 10kA Surge Protector (optional) **TLL** [4] Tool Less Entry Latches **TLRSR** [4] SR receptacle **VPA** [4] Vandal Proof Access	**GY3** Gray

1. Extended lead-time may apply. Consult factory.
2. See chart below for descriptions.
3. Only available with 2D Driver Qty.
4. Specific voltage (120, 208, 240, 277, 347 or 480) must be specified with fusing options (F1 or F2).
5. Select either DALI or DMG or SRD for interface option.
6. Please note this integrated feature comes standard in this product.
7. Not available with HVU, 347V and 480V.
8. Only available with DMG Driver Options.
9. TLL and VPA option cannot be selected together.
10. Only available with 1D (1 Driver).
11. Only available with SRD or SRD1 Driver Options.
12. Not available with DMG Driver Option.
13. Not available with JB1 or JB2 options

Driver Wattage and Current Selection Chart

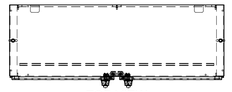
Drive Current (mA)	75W [8]		100W [8]		180W	
350	A	Min: 12 Max: 24	B	Min: 24 Max: 48	C	Min: 36 Max: 96
530	D	Min: 12 Max: 24	E	Min: 24 Max: 48	F	Min: 36 Max: 96
700	G	Min: 12 Max: 24	H	Min: 24 Max: 48	I	Min: 36 Max: 84
1050	J	Min: 12 Max: 24	K	Min: 24 Max: 24	L	Min: 24 Max: 60

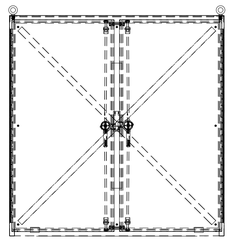
Note: TBX system wattage is dictated by the sum of the luminaire wattages that are connected to it.
14. Number of luminaires that can be driven by a driver is dependent on total number of LEDs of the luminaire daisy chain.
15. Not available in HVU, 347, 480 or DMG Options.
16. Available with DMG option only.

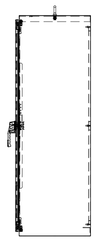
How to select driver box Watt and Drive current code:
1. Select fixtures to be powered and drive current using Lumen chart
2. Add the numbers of LEDs of the fixtures selected
3. Select the code that match the total numbers of LEDs and Drive current selected
4. If the total number of LEDs exceeds the Max of the chart, an additional daisy chain is required

Maximum number of fixtures in a daisy chain is driven by drive current and total number of LEDs TBX driver box can have one driver or 2 drivers. Each driver will drive one fixture daisy chain.
Note: Internal control options, like NER, cannot be used if 2 drivers are selected.

Example:
Qty 3 of TBL-2-24L-740-G1-DTS @350 mA fixtures must be powered:
Numbers of LEDs is 3x24 = 72 LEDs
Using chart, the maximum numbers of LEDs per driver @350 mA is 96 using code "C"
So ordering code info for this example would be:
Driver box: Qty 1 of TBX-1D-C-UNV-DMG-TLL-GY3
Fixtures: Qty 2 of TBL-2-24L-740-G1-DTS-0d1-W2S
Qty 1 of TBL-2-24L-740-G1-DTS-0d1-W1S


TOP VIEW


FRONT VIEW


SIDE VIEW

48"x24" WEATHERPROOF ENCLOSURE
SCALE: NOT TO SCALE

EXTERIOR ENCLOSURE NOTES:

A. THE EXTERIOR ENCLOSURE SHALL BE PAD MOUNTED ON A CONCRETE PAD AND MANUFACTURED BY HOFFMAN. THE ENCLOSURE SHALL BE A TWO DOOR CONFIGURATION WITH A THREE-POINT LATCHING SYSTEM WITH PADLOCKING HANDLES AND A FOAM-IN-PLACE GASKET FOR SECURITY PURPOSES. THE ENCLOSURE SHALL BE NEMA 4, IP66 SUITED FOR USE IN OUTDOOR APPLICATIONS.

B. THE ENCLOSURE SHALL BE MANUFACTURED FROM 12 GAUGE TYPE 304 OR 316L STAINLESS STEEL, BACK PANELS SHALL BE 10 GAUGE STAINLESS STEEL WITH X-FORM STIFFENERS, SEAMS SHALL BE CONTINUOUSLY WELDED AND GROUND SMOOTH; NO HOLES OR KNOCKOUTS WILL BE PERMITTED.

C. A REMOVABLE CENTER-POST FOR EASY PANEL INSTALLATION SHALL BE PROVIDED ALONG WITH COLLAR STUDS FOR MOUNTING OPTIONAL PANELS. MOUNTING PANEL AND PANEL SUPPORTS SHALL BE INCLUDED.

D. HEAVY-DUTY LIFTING EYES SHALL BE TYPE 316L STAINLESS STEEL.

E. HEAVY-DUTY 3-POINT LATCHING MECHANISM OPERATED BY TYPE 316L STAINLESS STEEL POWERGLIDE PADLOCKING HANDLES SHALL BE INCLUDED.

F. BODY FLANGE TROUGH COLLAR SHALL EXCLUDE LIQUIDS AND CONTAMINANTS

G. HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGES SHALL SUPPORT EACH DOOR

H. BONDING PROVISION ON DOORS ALONG WITH GROUNDING STUDS ON BODY SHALL BE PROVIDED.

I. ACCESSORY MOUNTING CHANNEL SHALL BE PROVIDED IN ENCLOSURE TOP.

J. DATA POCKET SHALL BE HIGH-IMPACT THERMOPLASTIC AND MOUNTED TO THE INSIDE OF THE DOORS.

K. 12" REMOVABLE FLOOR STANDS SHALL BE BOLTED TO ENCLOSURE.

L. SEAMLESS FOAM-IN-PLACE ONE-PIECE GASKET SHALL PROVIDE OIL-TIGHT AND DUST-TIGHT SEAL AGAINST CONTAMINANTS.

M. EXTERNAL HARDWARE MANUFACTURED OF TYPE 316 STAINLESS STEEL AND THE ENCLOSURE SHALL BE UNPAINTED AND FRONT, SIDES, TOP AND BACK SHALL A HAVE SMOOTH #4 BRUSHED FINISH.

VINCENT A. DiIORIO, INC.
est. 1972
CONSULTING ENGINEERS
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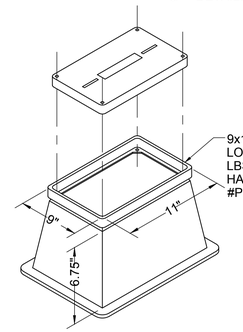
Norwood, MA 02062
(781)255-9754 | vadjr@vadeng.com
www.vadeng.com

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	93	199
	PROJECT FILE NO.	609204	

LIGHT FIXTURE SPECIFICATIONS & DETAILS



HANDHOLE
SCALE: NOT TO SCALE

HANDHOLE NOTES:

A. THE LOCATION OF OUTLETS SHOWN ON DRAWINGS IS APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL STUDY THE PLANS IN RELATION TO THE AREAS AND EQUIPMENT SURROUNDING EACH HAND HOLE SO THAT HAND HOLES OR OTHER ELECTRICAL COMPONENTS ARE SYMMETRICALLY LOCATED AND ARE IN LINE WITH ONE ANOTHER FOR EASE OF PULLING CONDUCTORS.

B. HAND HOLES OR PULL BOXES, SHOWN ON THE DRAWINGS, THAT INTERFERE WITH THE INSTALLATION OF SUB-SURFACE UTILITIES, STRUCTURAL POLE BASES OR ARCHITECTURAL FEATURES, OR THAT WILL BE INACCESSIBLE DUE TO THE WORK OF OTHER TRADES SHALL BE RELOCATED ACCORDINGLY.

C. HAND HOLES, JUNCTION OR PULL BOXES THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS BUT ARE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR, SO THAT THEY DO NOT INTERFERE WITH THE STRUCTURAL OR ARCHITECTURAL FEATURES AND THE INSTALLATION OF MATERIALS BY THE OTHER TRADES.

D. ANY REASONABLE CHANGE IN THE LOCATION OF HAND HOLES OR JUNCTION BOXES REQUESTED BY THE ENGINEER, PRIOR TO ROUGHING, SHALL NOT INVOLVE ADDITIONAL EXPENSE TO THE OWNER.

E. ALL HAND HOLES SHALL BE INSTALLED SO THAT THE COVER OF EACH HAND HOLE IS AT FINISHED GRADE.

F. FEEDERS AND BRANCH CIRCUITS PASSING THROUGH HAND HOLES SHALL BE INDIVIDUALLY GROUPED AND BOUND WITH TIE-RAPS. THE FEEDERS AND BRANCH CIRCUITS IN EACH HAND HOLE SHALL BE PROPERLY TAGGED TO CLEARLY INDICATE THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER AND PANEL DESIGNATION. CABLES SHALL BE SUPPORTED ON SUITABLE RACKS WITHIN THE BOXES AND ARRANGED IN AN ORDERLY MANNER.

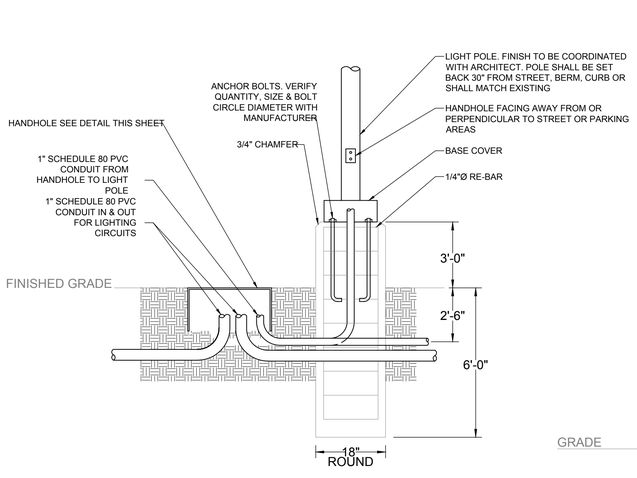
G. HAND HOLES SHALL, IN GENERAL, BE AS FOLLOWS:
   1. HAND HOLES SHALL BE A MINIMUM OF 9" X 11" X 6.75" DEEP WITH STRAIGHT SIDED AND A GASKETED COVER.
   2. HAND HOLES SHALL BE FLUSH WITH GRADE AND COMPLY WITH THE 2023 NATIONAL ELECTRIC CODE.
   3. EACH HAND HOLE SHALL BE MADE OF POLYMER CONCRETE AND BE STABLE UNDER FREEZE AND THAW CONDITIONS.
   4. EACH HAND HOLE SHALL BE IMPACT RESISTANT AS TESTED PER ATM D-244 AND BE LOW WATER ABSORPTION, CORROSION RESISTANT, NON-FLAMMABLE AND NONCONDUCTIVE.
   5. EACH HAND HOLE SHALL BE PROVIDED WITH A BOLTED, GASKETED TIER 5 COVER. THE HARDWARE SHALL BE STAINLESS STEEL.
   6. EACH HAND HOLE COVER SHALL BE EMBOSSED WITH THE WORD "ELECTRICAL".
   7. EACH HAND HOLE SHALL BE MANUFACTURED BY QUAZITE #PC0608BG06 OR EQUAL.

H. HAND HOLES SHALL BE PROPERLY SEALED DURING THE COURSE OF CONSTRUCTION TO PREVENT THE ENTRANCE OF DIRT AND FOREIGN MATERIALS.

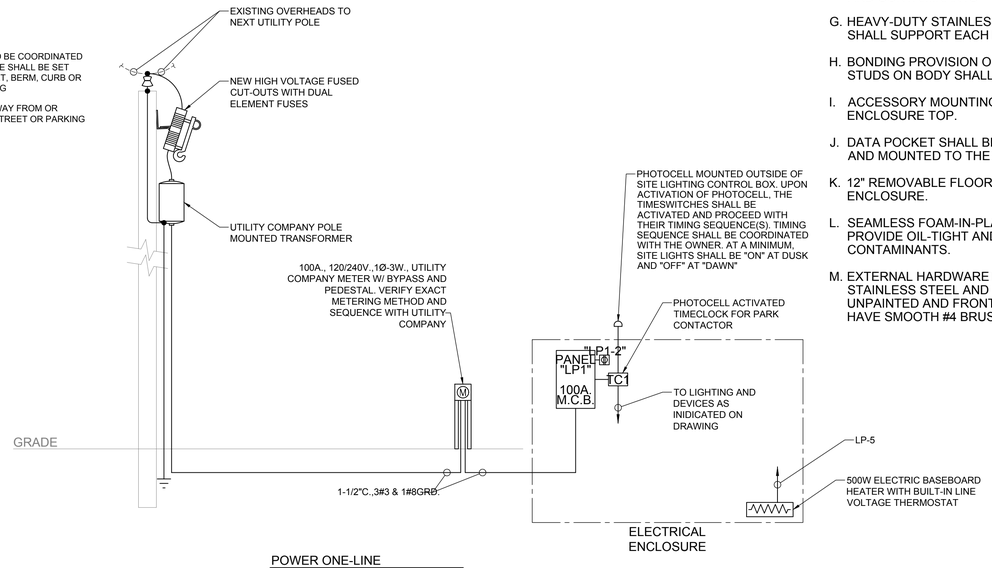
I. EXPOSED, SURFACE MOUNTED OUTLET BOXES OR OUTLET BOXES INSTALLED IN NORMALLY WET LOCATIONS SHALL BE OF THE CAST METAL TYPE WITH THREADED HUBS AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND, CROUSE-HINDS OR RED DOT.

J. OUTLET BOXES SHALL NOT BE LESS THAN 1-1/2 INCHES DEEP UNLESS SHALLOWER BOXES ARE REQUIRED BY STRUCTURAL CONDITIONS AND ARE SPECIFICALLY APPROVED BY THE ENGINEER.

K. OUTLET BOXES ON THE EXTERIOR OF ANY STRUCTURE SHALL BE PROVIDED WITH UL LISTED WEATHERPROOF COVERS THAT ALLOW A PLUG TO BE IN PLACE WITH THE COVER IN CLOSED POSITION. COVERS SHALL BE SINGLE GANG, HORIZONTAL DUPLEX, "IN-USE" APPLICATION IN ACCORDANCE WITH ARTICLE 406 OF THE NATIONAL ELECTRIC CODE AND AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND.



POLE BASE & HANDHOLE DETAIL
SCALE: NOT TO SCALE



POWER ONE-LINE
SCALE: NOT TO SCALE

MassDOT DWT Name: ####################
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ####
Release Date: #########

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	94	199
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

MASTER PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	13	Acer rubrum	Red Maple	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	14	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	10	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	9	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	9	Quercus palustris	Pin Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	11	Quercus rubra	Red Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR3	1	Quercus rubra	Red Oak	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	14	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	22	Juniperus virginiana	Eastern Redcedar	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
JV2	12	Juniperus virginiana	Eastern Redcedar	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PG	24	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG2	10	Picea glauca	White Spruce	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PS	20	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PS2	7	Pinus strobus	Eastern White Pine	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	17	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	18	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	13	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	18	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
SHRUBS						
CSA	60	Cornus sericea 'Arctic Fire'	Arctic Fire Yellow Dogwood	#3 cont., 24" ht. min.	48" O.C.	full and rounded, staggered rows
FGA	57	Fothergilla gardenii	Dwarf Fothergilla	#3 cont., 18" ht. min.	36" O.C.	full and rounded, staggered rows
IGS	68	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	#3 cont., 24" ht. min.	36" O.C.	full and rounded, staggered rows
IVH	78	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
RAG	7	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#3 cont., 12" spd. min.	36" O.C.	full and rounded, staggered rows
VDB	8	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
XS	54	Xanthorhiza simplicissima	Yellowroot	#2 cont.	24" O.C.	full and rounded, staggered rows
GROUND COVERS						
	53,322 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS
	7,671 sf	BAREROOT WHIPS				
AR2	12	Acer rubrum	Red Maple	BARE ROOT	10' O.C.	
JE	12	Juniperus virginiana	Eastern Redcedar	BARE ROOT	10' O.C.	
LS2	12	Liquidambar styraciflua	Sweet Gum	BARE ROOT	10' O.C.	
NS2	12	Nyssa sylvatica	Tupelo	BARE ROOT	10' O.C.	
PS3	12	Pinus strobus	White Pine	BARE ROOT	10' O.C.	
PW	12	Prunus serotina	Black Cherry	BARE ROOT	10' O.C.	
QP2	12	Quercus palustris	Pin Oak	BARE ROOT	10' O.C.	
QR2	12	Quercus rubra	Northern Red Oak	BARE ROOT	10' O.C.	
ORNAMENTAL GRASSES						
CKF	47	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 cont.	24" O.C.	staggered rows

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL
- WROUGHT IRON PICKET FENCE
- PRIVACY SCREEN

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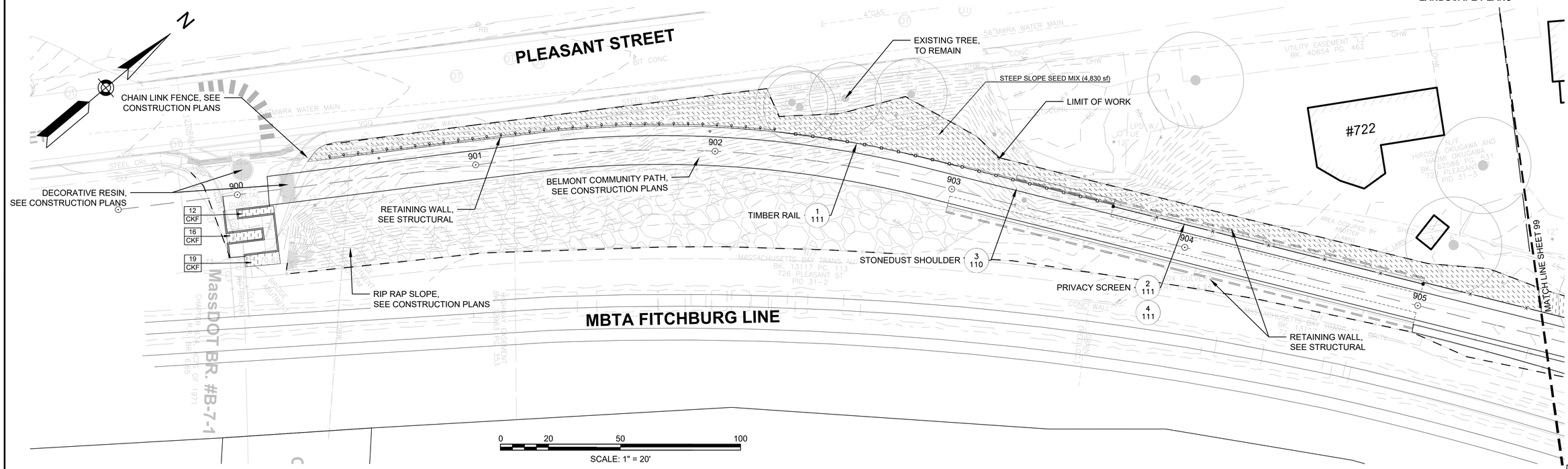
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	95	199
PROJECT FILE NO.	609204		

LANDSCAPE PLANS



PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
GROUND COVERS						
	4,830 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS
ORNAMENTAL GRASSES						
CKF	47	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#2 cont.	24" O.C.	staggered rows

CONTINUED ON SHEET NO. 99

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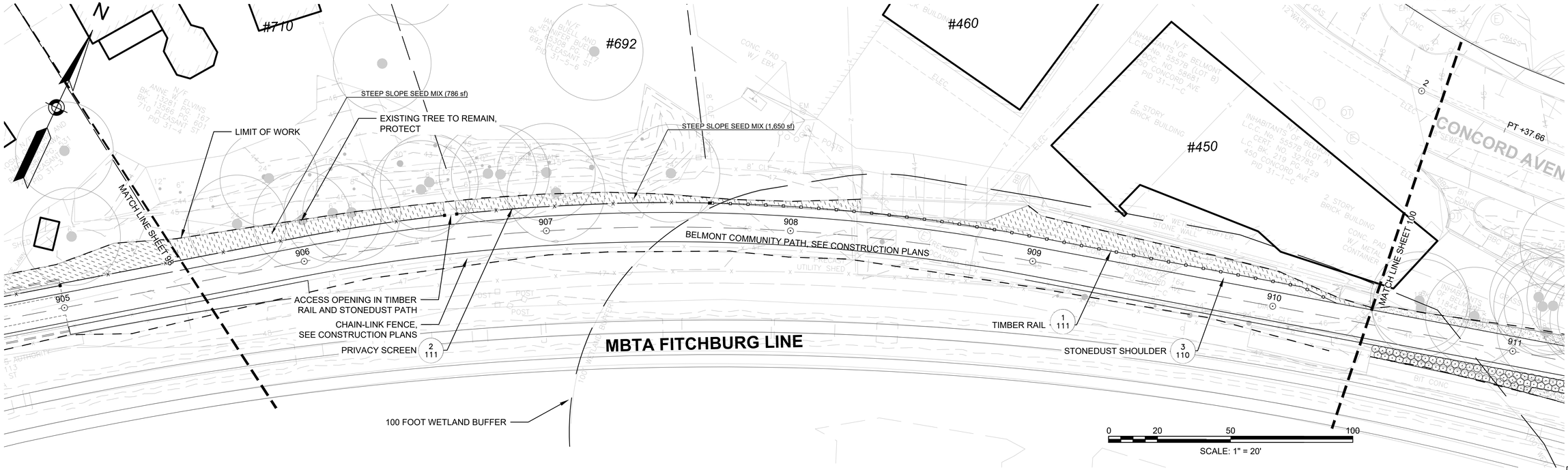
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	96	199
PROJECT FILE NO.	609204		

LANDSCAPE PLANS



PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS
GROUND COVERS					
	2,436 sf	STEEP SLOPE SEED MIX	Steep Slope Seed Mix	Seed	SEE SPECIAL PROVISIONS

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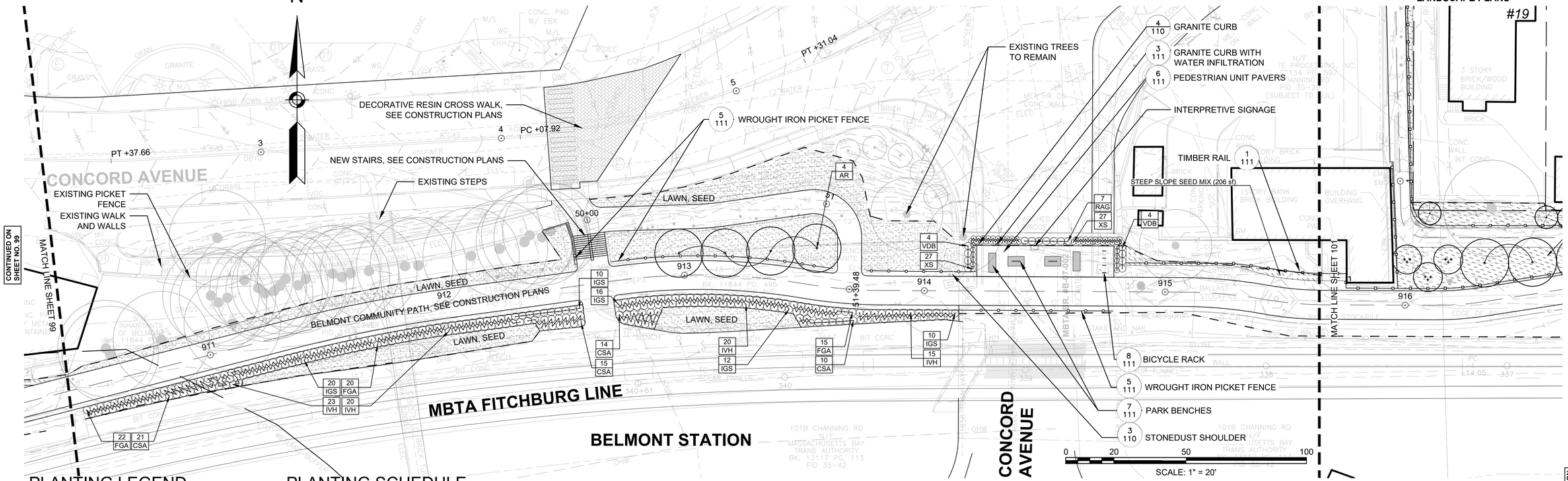
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	97	199
PROJECT FILE NO.	609204		

LANDSCAPE PLANS

#19



PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- PEDESTRIAN UNIT PAVERS (6 / 111)
- LIMIT OF WORK
- TIMBER RAIL (1 / 111)
- WROUGHT IRON PICKET FENCE (5 / 111)
- PARK BENCH, TYPE 1 (7 / 111)
- PARK BENCH, TYPE 2 (7 / 111)
- GRANITE CURB WITH WATER INFILTRATION (3 / 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	4	Acer rubrum	Red Maple	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
SHRUBS						
CSA	60	Cornus sericea 'Arctic Fire'	Arctic Fire Yellow Dogwood	#3 cont., 24" ht. min.	48" O.C.	full and rounded, staggered rows
FGA	57	Fothergilla gardenii	Dwarf Fothergilla	#3 cont., 18" ht. min.	36" O.C.	full and rounded, staggered rows
IGS	68	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	#3 cont., 24" ht. min.	36" O.C.	full and rounded, staggered rows
IVH	78	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
RAG	7	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#3 cont., 12" spd. min.	36" O.C.	full and rounded, staggered rows
VDB	8	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
XS	54	Xanthorhiza simplicissima	Yellowroot	#2 cont.	24" O.C.	full and rounded, staggered rows
GROUND COVERS						
	206 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

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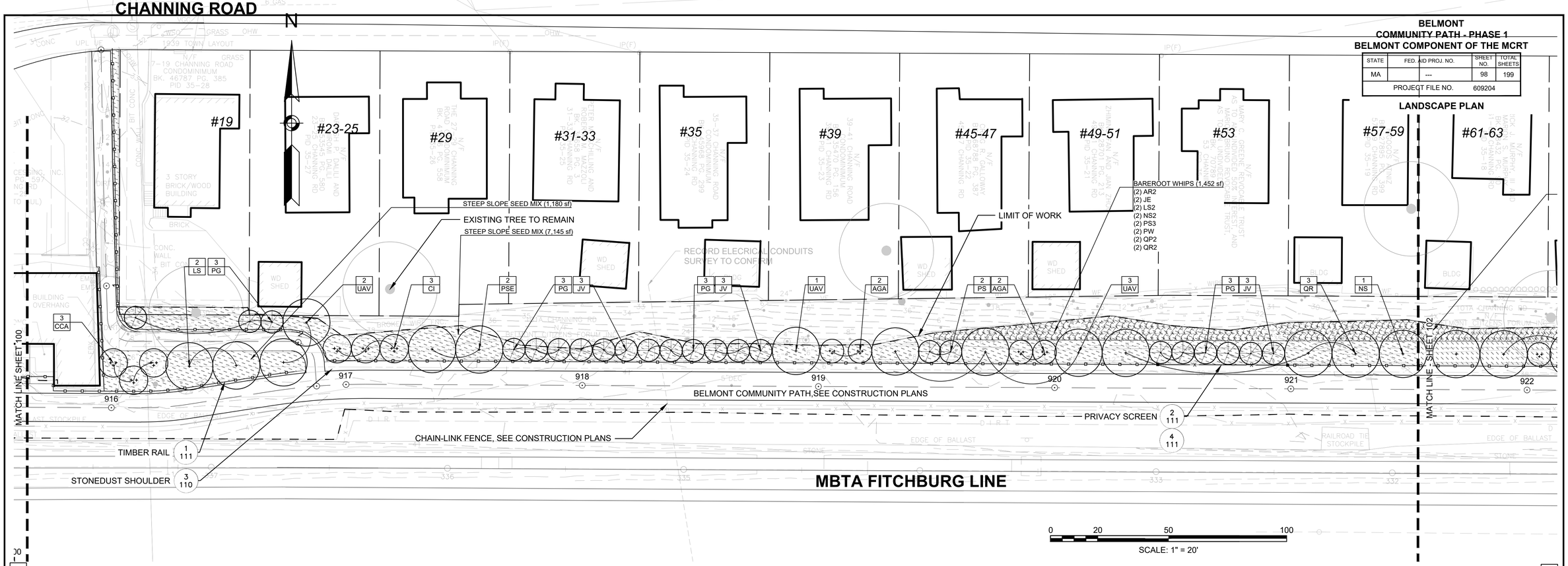

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.		SHEET NO.	TOTAL SHEETS
MA		---	98	199
PROJECT FILE NO.	609204			

LANDSCAPE PLAN

CONTINUED ON SHEET NO. 100

CONTINUED ON SHEET NO.102

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
LS	2	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	3	Quercus rubra	Red Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	6	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	9	Juniperus virginiana	Eastern Redcedar	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG	12	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PS	2	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	3	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	3	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
GROUND COVERS						
	8,325 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS
	1,452 sf	BAREROOT WHIPS				
AR2	2	Acer rubrum	Red Maple	BARE ROOT	10' O.C.	
JE	2	Juniperus virginiana	Eastern Redcedar	BARE ROOT	10' O.C.	
LS2	2	Liquidambar styraciflua	Sweet Gum	BARE ROOT	10' O.C.	
NS2	2	Nyssa sylvatica	Tupelo	BARE ROOT	10' O.C.	
PS3	2	Pinus strobus	White Pine	BARE ROOT	10' O.C.	
PW	2	Prunus serotina	Black Cherry	BARE ROOT	10' O.C.	
QP2	2	Quercus palustris	Pin Oak	BARE ROOT	10' O.C.	
QR2	2	Quercus rubra	Northern Red Oak	BARE ROOT	10' O.C.	

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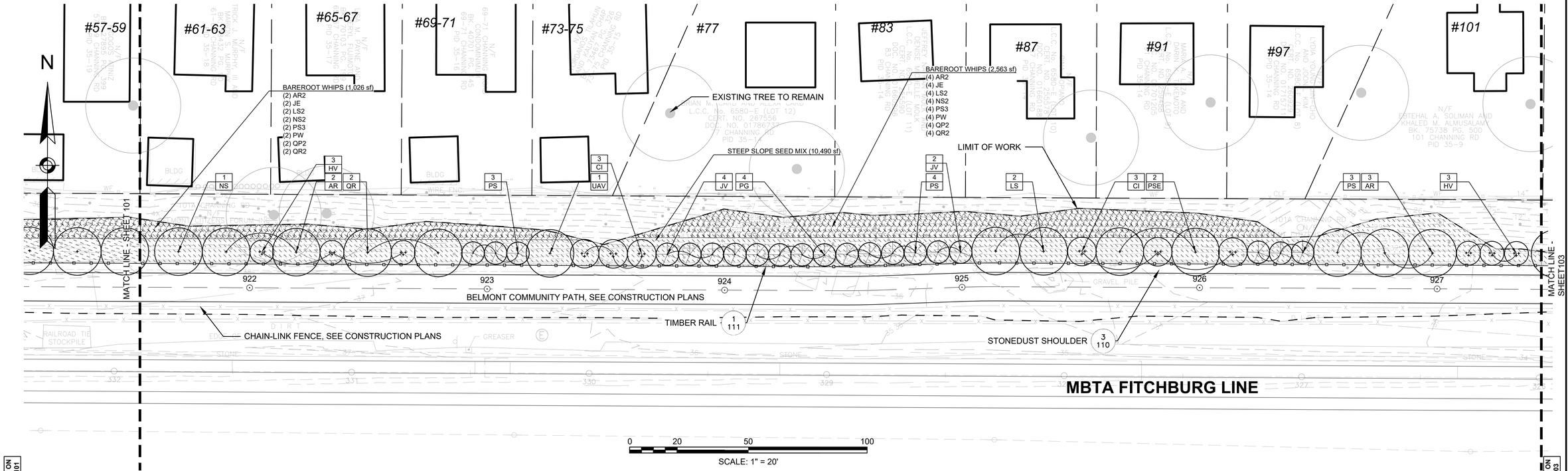
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	99	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 101

CONTINUED ON SHEET NO 103

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	5	Acer rubrum	Red Maple	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	2	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	2	Quercus rubra	Red Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	1	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	6	Juniperus virginiana	Eastern Redcedar	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG	4	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PS	10	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
CI	6	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	6	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
GROUND COVERS						
	10,490 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS
	3,589 sf	BAREROOT WHIPS				
AR2	6	Acer rubrum	Red Maple	BARE ROOT	10' O.C.	
JE	6	Juniperus virginiana	Eastern Redcedar	BARE ROOT	10' O.C.	
LS2	6	Liquidambar styraciflua	Sweet Gum	BARE ROOT	10' O.C.	
NS2	6	Nyssa sylvatica	Tupelo	BARE ROOT	10' O.C.	
PS3	6	Pinus strobus	White Pine	BARE ROOT	10' O.C.	
PW	6	Prunus serotina	Black Cherry	BARE ROOT	10' O.C.	
QP2	6	Quercus palustris	Pin Oak	BARE ROOT	10' O.C.	
QR2	6	Quercus rubra	Northern Red Oak	BARE ROOT	10' O.C.	

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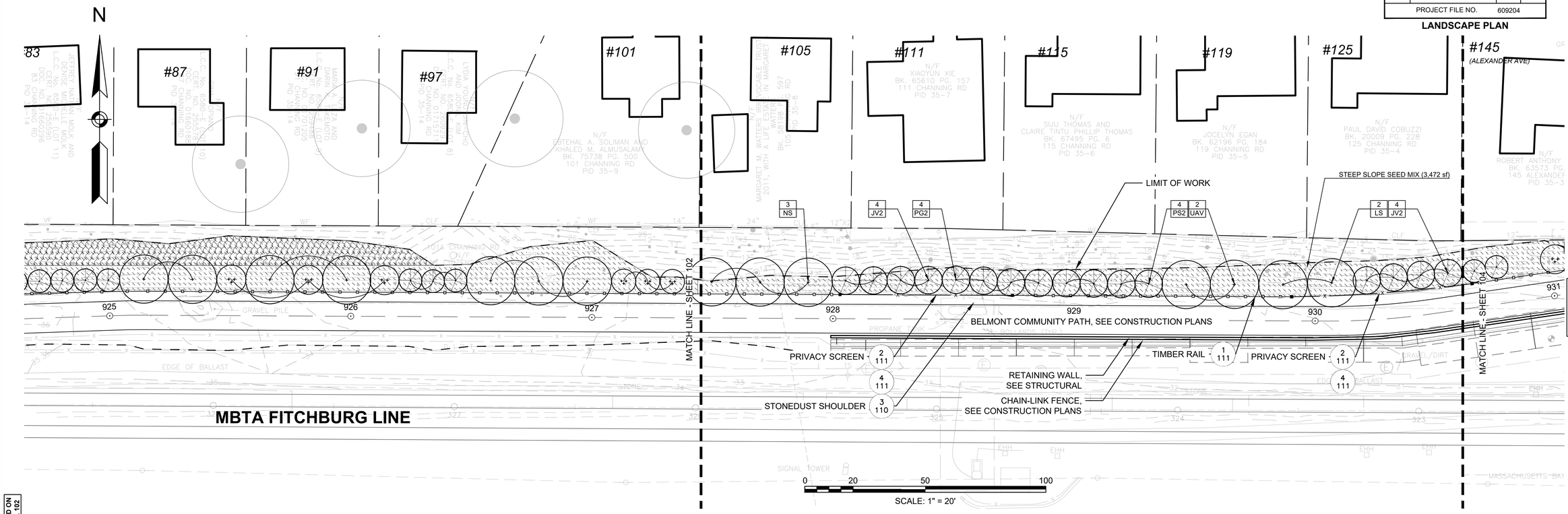
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	100	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 102

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
LS	2	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	3	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
UAV	2	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV2	8	Juniperus virginiana	Eastern Redcedar	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PG2	4	Picea glauca	White Spruce	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PS2	4	Pinus strobus	Eastern White Pine	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
GROUND COVERS						
	3,472 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	101	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

N

CHANNING ROAD

STEEP SLOPE SEED MIX (2,565 sf)
STEEP SLOPE SEED MIX (2,179 sf)
TIMBER RAIL 1/111
2 CI
3 HV
2/111 PRIVACY SCREEN
4/111
2 QP
3 PG
1 CCA
1 PSE
2 PS
1 CCA
4 AGA
LIMIT OF WORK
DECORATIVE RESIN , SEE CONSTRUCTION PLANS
STEEP SLOPE SEED MIX (863 sf)
RETAINING WALL, SEE STRUCTURAL
RETAINING WALL, SEE STRUCTURAL
CHAIN-LINK FENCE AND RETAINING WALL, SEE CONSTRUCTION PLANS AND STRUCTURAL
STEEP SLOPE SEED MIX (503 sf)
STEEP SLOPE SEED MIX (460 sf)
NEW ALEXANDER AVENUE UNDERPASS, SEE CONSTRUCTION PLANS
BELMONT COMMUNITY PATH - SEE CONSTRUCTION PLANS
1/111 TIMBER RAIL
3/110 STONEDUST SHOULDER

MATCH LINE - SHEET 103
CONTINUED ON SHEET NO. 103
MATCH LINE - SHEET 105
CONTINUED ON SHEET NO.105

#119 — S AND LIP THOMAS PG. 6 NG RD -6
#125 — N/F JOCELYN EGAN BK. 62196 PG. 184 119 CHANNING RD PID 35-5
#145 (ALEXANDER AVE) — N/F PAUL DAVID COBUZZI BK. 20009 PG. 228 125 CHANNING RD PID 35-4
#145 (ALEXANDER AVE) — N/F ROBERT ANTHONY COBUZZI BK. 63573 PG. 517 145 ALEXANDER AVE 35-3
#159 (ALEXANDER AVE) — N/F PAUL HEALEY & NANCY HEALEY BK. 50802 PG. 115 196 CHANNING RD PID 37-92
#145 — N/F KARA A. MORIN AND ROGELIO A.P. FUSSA BK. 53096 PG. 515 153 CHANNING RD PID 37-91
#153 — N/F JOHN J. LeSHANE REVOCABLE TRUST BK. 61138 PG. 171 159 CHANNING RD PID 37-90
#159

ALEXANDER AVE

BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'

C=112.36' PT +20004.69
501 PI +05.61
PC +77.76
PT +85.93
502
PC +98.99
PT +30.56
503
PC +06.78
PT +32.95
503+37
PC +75.99
504
504+02.44
T +18.43
931
930
932
933
934
935

0 20 50 100
SCALE: 1" = 20'

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED — 2/110
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL — 1/111
- WROUGHT IRON PICKET FENCE — 5/111
- PRIVACY SCREEN — 2/111

PLANTING LEGEND

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
PSE	1	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	2	Quercus palustris	Pin Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
PG	3	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PS	2	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	2	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	2	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	3	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
GROUND COVERS						
	6,570 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

167 ALEXANDER AVE N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 613 PID 35-39

101B CHANNING RD N/F MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113 PID 35-42

N/F INHABITANTS OF BELMONT BK. 5183 PG. 20

BELMONT MIDDLE AND HIGH SCHOOL

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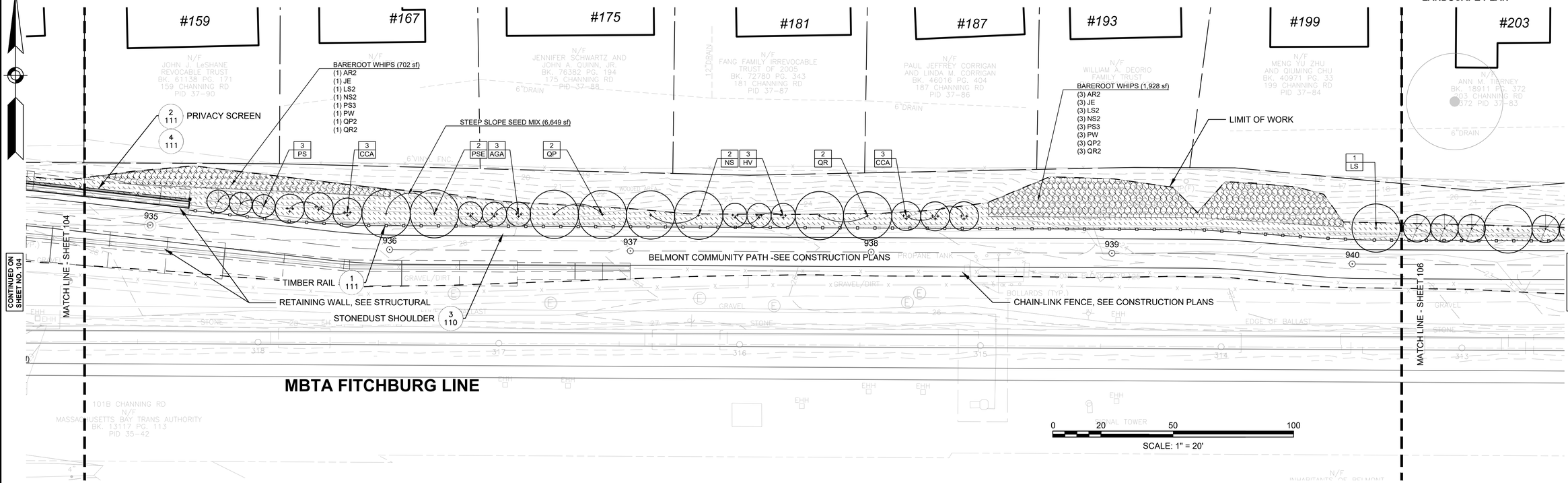
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	102	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED — 2 110
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL — 1 111
- WROUGHT IRON PICKET FENCE — 5 111
- PRIVACY SCREEN — 2 111

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
LS	1	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	2	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	2	Quercus palustris	Pin Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	2	Quercus rubra	Red Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
PS	3	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	3	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	6	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
HV	3	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
GROUND COVERS						
	6,649 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS
	2,630 sf	BAREROOT WHIPS				
AR2	4	Acer rubrum	Red Maple	BARE ROOT	10' O.C.	
JE	4	Juniperus virginiana	Eastern Redcedar	BARE ROOT	10' O.C.	
LS2	4	Liquidambar styraciflua	Sweet Gum	BARE ROOT	10' O.C.	
NS2	4	Nyssa sylvatica	Tupelo	BARE ROOT	10' O.C.	
PS3	4	Pinus strobus	White Pine	BARE ROOT	10' O.C.	
PW	4	Prunus serotina	Black Cherry	BARE ROOT	10' O.C.	
QP2	4	Quercus palustris	Pin Oak	BARE ROOT	10' O.C.	
QR2	4	Quercus rubra	Northern Red Oak	BARE ROOT	10' O.C.	

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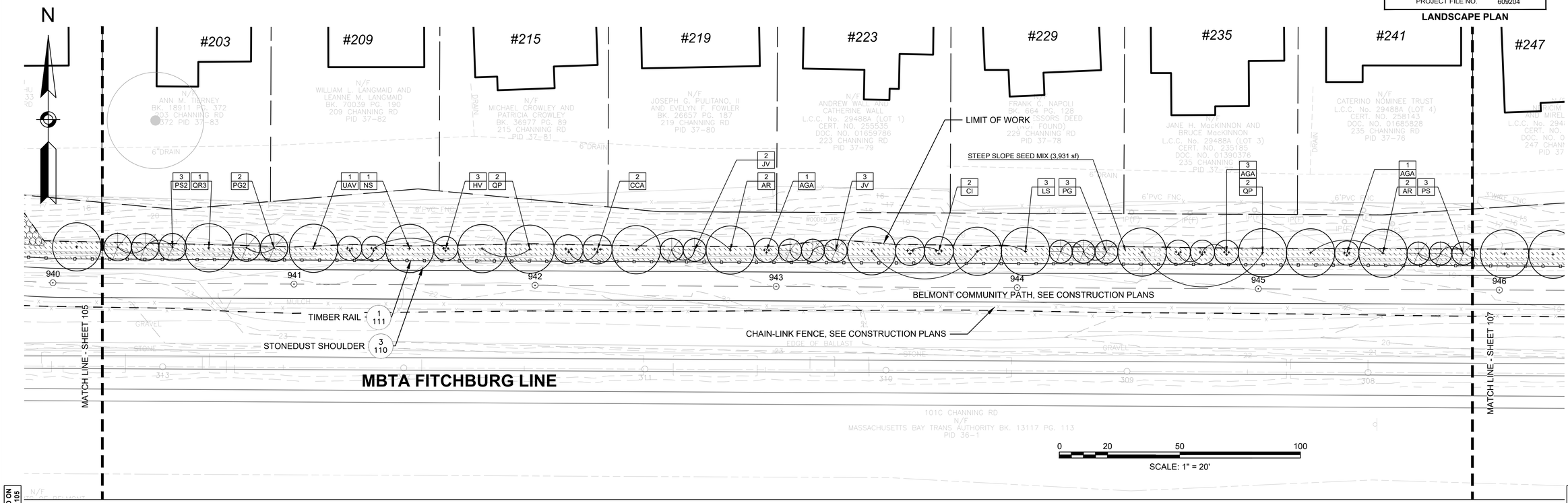
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	103	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 105

CONTINUED ON SHEET NO. 107

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 / 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 / 111)
- WROUGHT IRON PICKET FENCE (5 / 111)
- PRIVACY SCREEN (2 / 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	4	Acer rubrum	Red Maple	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	3	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
QP	4	Quercus palustris	Pin Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR3	1	Quercus rubra	Red Oak	3"-3.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	1	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	5	Juniperus virginiana	Eastern Redcedar	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG	3	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG2	2	Picea glauca	White Spruce	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PS	3	Pinus strobus	Eastern White Pine	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PS2	3	Pinus strobus	Eastern White Pine	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	5	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	2	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	2	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	3	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
GROUND COVERS						
	3,931 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

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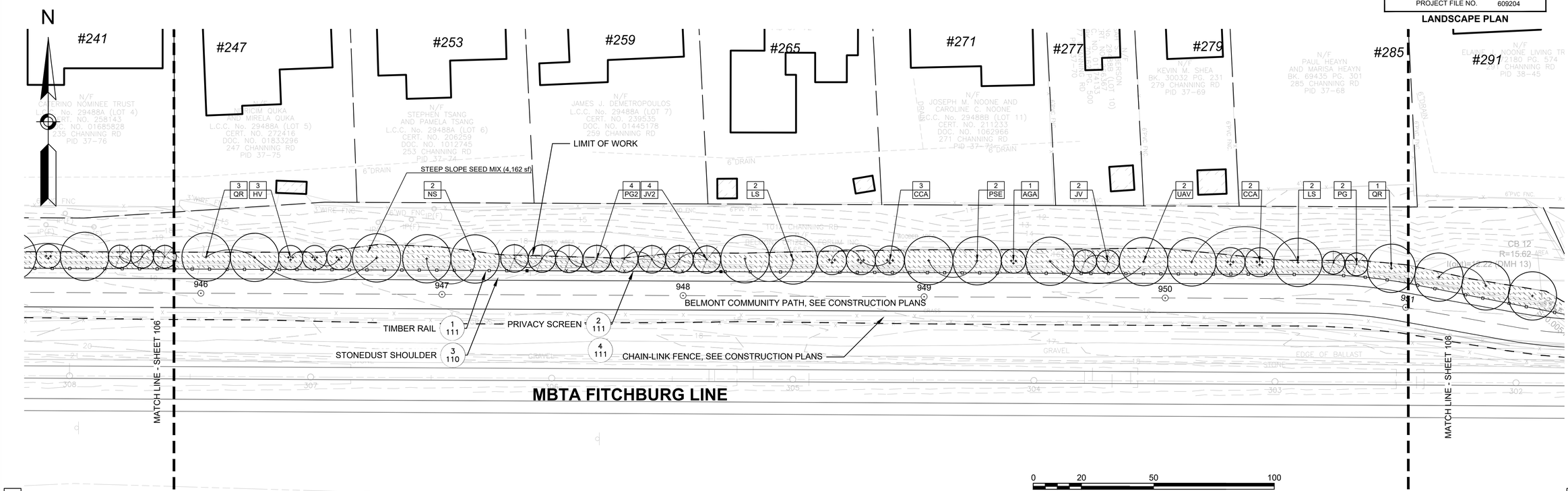
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	104	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



CONTINUED ON SHEET NO. 106

CONTINUED ON SHEET NO. 108

PLANTING LEGEND

EXISTING TREE TO REMAIN

DECIDUOUS TREE

ORNAMENTAL TREE

EVERGREEN TREE

LAWN - SEED — 2 110

MASSDOT STEEP SLOPE SEED MIX

BAREROOT WHIP PLANTING

LIMIT OF WORK

TIMBER RAIL — 1 111

WROUGHT IRON PICKET FENCE — 5 111

PRIVACY SCREEN — 2 111

PLANTING LEGEND

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
LS	4	Liquidambar styraciflua	American Sweetgum	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	2	Nyssa sylvatica	Blackgum	2" Cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	4	Quercus rubra	Red Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	2	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	2	Juniperus virginiana	Eastern Redcedar	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
JV2	4	Juniperus virginiana	Eastern Redcedar	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
PG	2	Picea glauca	White Spruce	7'-8' ht.	AS SHOWN	B&B, full to the ground, matched
PG2	4	Picea glauca	White Spruce	8'-10' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	1	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	5	Cercis canadensis	Eastern Redbud Multi-trunk	7'-8' ht.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
HV	3	Hamamelis virginiana	Common Witch Hazel	6'-7' ht.	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
GROUND COVERS						
	4,162 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

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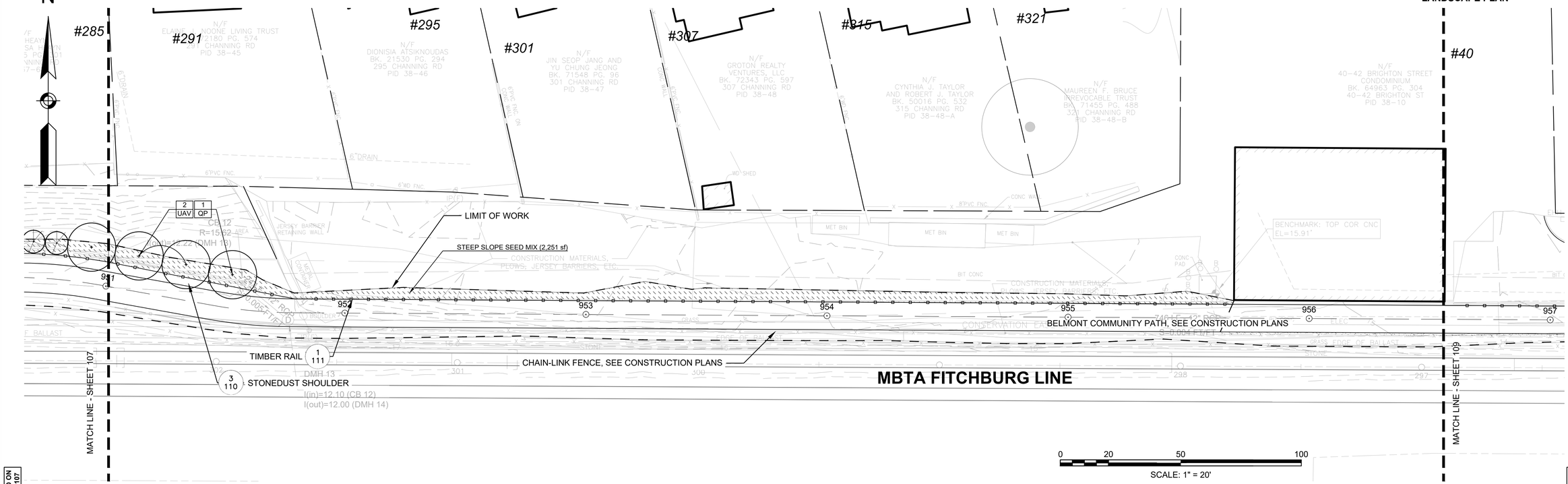
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	105	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 107

CONTINUED ON SHEET NO. 109

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PRIVACY SCREEN (2 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
QP	1	Quercus palustris	Pin Oak	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
UAV	2	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2" Cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
GROUND COVERS						
	2,251 sf	STEEP SLOPE SEED MIX	Steep slope seed mix	Seed		SEE SPECIAL PROVISIONS

Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg\references\xref\607756_HD (Border Sheet).dwg ----

609204_HD (BORDER SHEET).DWG Plotted on ----

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	106	199
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

N

#40

N/F
40-42 BRIGHTON STREET
CONDOMINIUM
BK. 64963 PG. 304
40-42 BRIGHTON ST
PID 38-10

N/F
STANLEY D. GARFIELD REVOCABLE TRUST OF 2014
BK. 64312 PG. 280
46 BRIGHTON ST
PID 38-11

BK. 44742 PG. 61
45 BRIGHTON ST
PID 39-68

2 STORY
CONCRETE
BUILDING

N/F
VALE REALTY AND
SERVICE COMPANY, LLC
BK. 67478 PG. 51
1 VALE ROAD
PID 39-28

N/F
OAK REALTY AND
SERVICE COMPANY, LLC
BK. 66971 PG. 339
PID 39-27

BRIGHTON STREET

FITCHBURG CUTOFF

EX DMH 2
R=12.37
I(in)=8.70 (DMH 14)

DMH 14
R=12.49
I(in)=9.10 (DMH 13)
I(out)=9.00 (EX DMH 2)

STAMPED ASPHALT, SEE CONSTRUCTION PLANS

DECORATIVE RESIN, SEE CONSTRUCTION PLANS

BELMONT COMMUNITY PATH, SEE CONSTRUCTION PLANS

TIMBER RAIL (1 / 111)

CHAIN-LINK FENCE, SEE CONSTRUCTION PLANS

PUBLIC RECREATION AND TRAIL EASEMENT
PARCEL 8P-1-C BK/PG x/x

MATCH LINE - SHEET 108

CONTINUED ON SHEET NO. 108

MBTA FITCHBURG LINE

N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 113
37 BRIGHTON ST
PID 38-1

0 20 50 100
SCALE: 1" = 20'

PLANTING LEGEND

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SOD
- SHADE LOW-MOW SEED MIX (# 110)
- SUN LOW-MOW SEED MIX (# 110)
- LIMIT OF WORK
- TIMBER RAIL (1 / 111)
- WROUGHT IRON PICKET FENCE (5 / 111)

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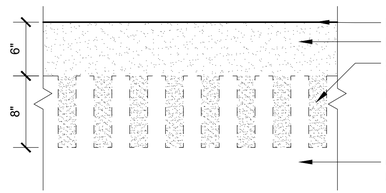
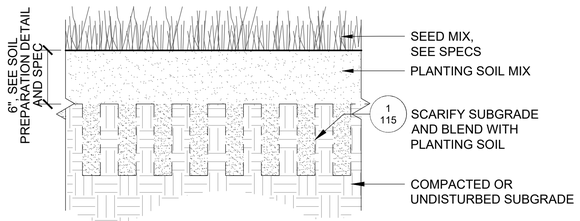
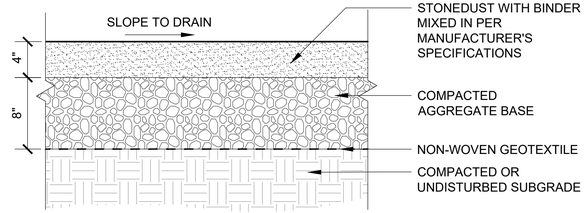


1 SOIL PREPARATION
1 1/2" = 1'–0"

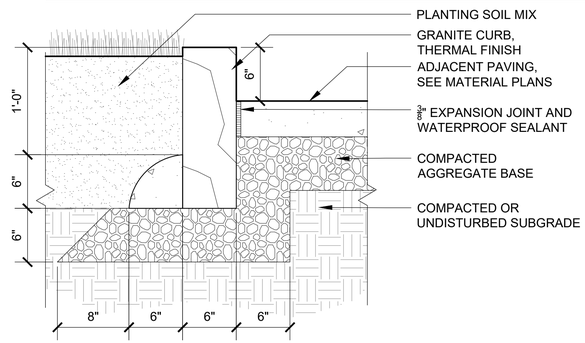


2 SEEDED LAWN
1 1/2" = 1'–0"

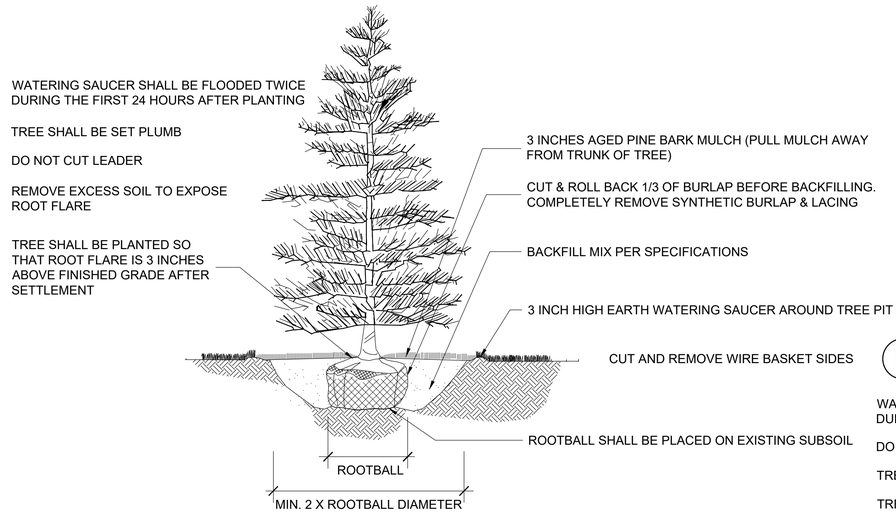


3 STONEDUST SHOULDER
1 1/2" = 1'–0"

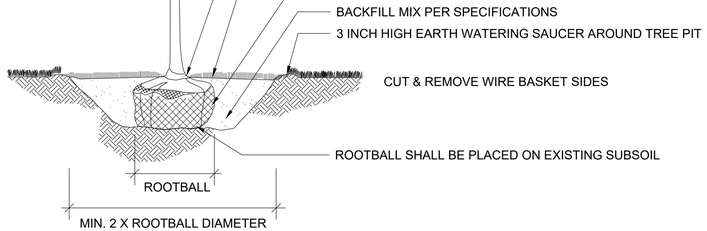
NOTE:
1. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION.
2. CURB TO CURB JOINTS TO BE ½" MORTAR AND TO MATCH COLOR OF GRANITE CURB.



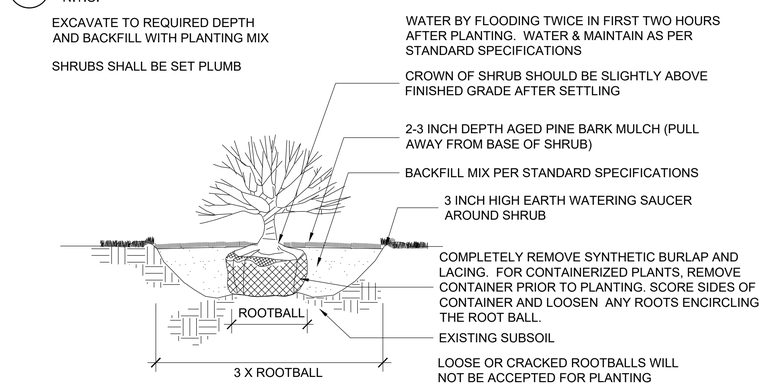
4 GRANITE CURB
1 1/2" = 1'–0"



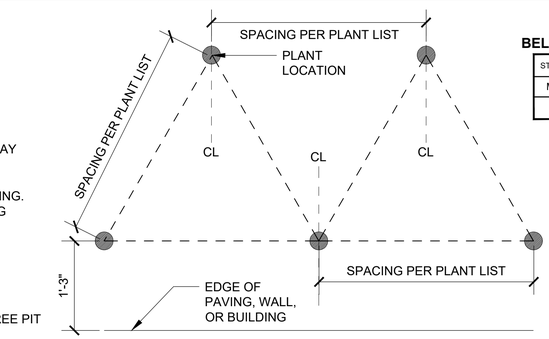
5 EVERGREEN TREE PLANTING
N.T.S



6 DECIDUOUS TREE PLANTING
N.T.S.



7 SHRUB PLANTING
N.T.S.

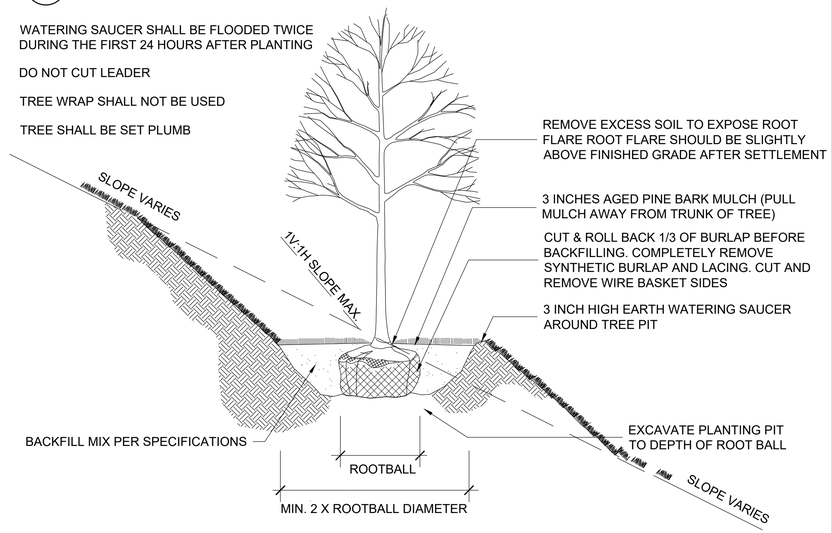


PLANT SPACING:	# OF PLANTS / SF
8"	2.6
12"	1.15
15"	.733
18"	.512
36"	.128
48"	.0725

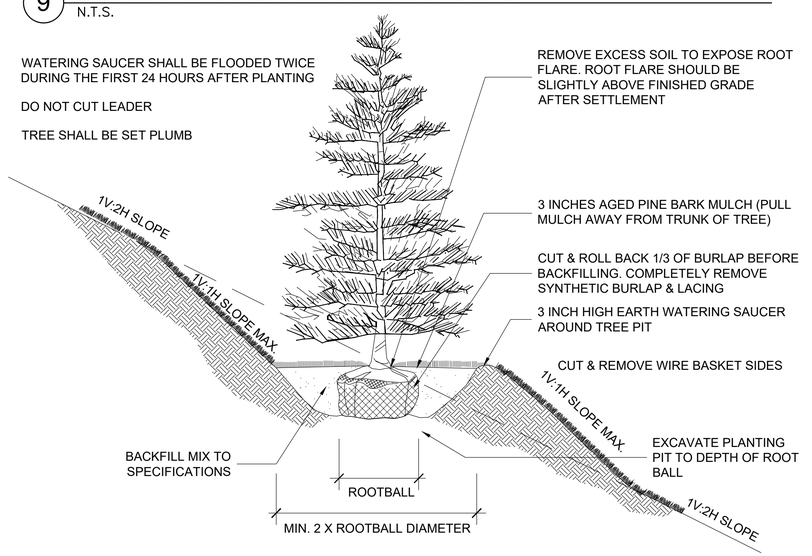
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	107	199
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS



8 PLANTING DIAGRAM
1" = 1'–0"



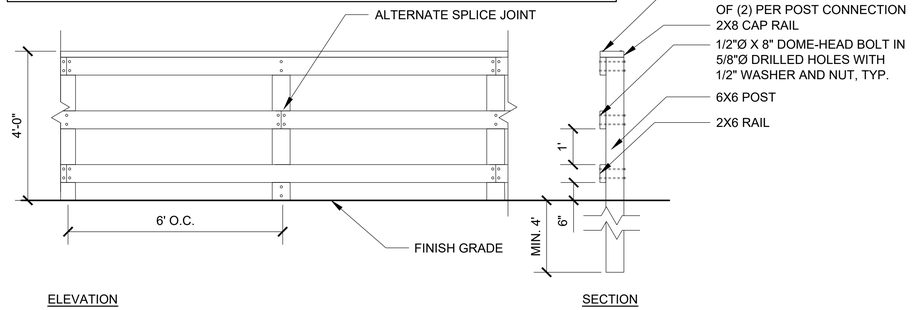
9 DECIDUOUS PLANTING ON A SLOPE
N.T.S.

10 EVERGREEN PLANTING ON A SLOPE
N.T.S.

Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg\references\xref\607756_HD (Border Sheet).dwg ----

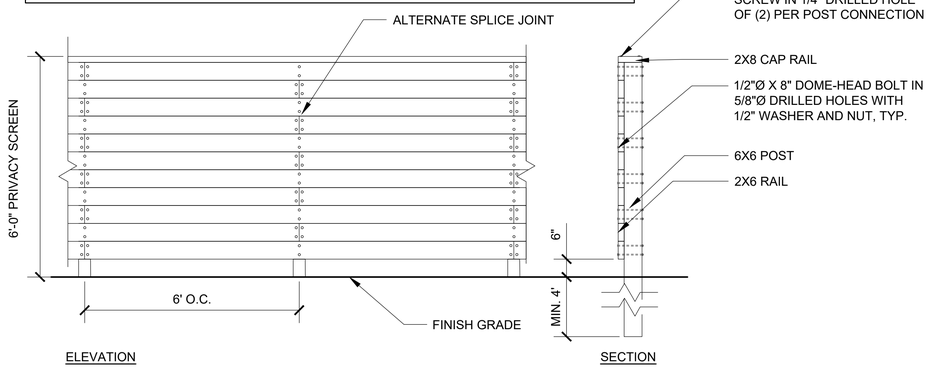
609204_HD (BORDER SHEET).DWG Plotted on ---- ----

NOTE:
1. ALL WOOD TO BE YELLOW CEDAR.
2. ALL HARDWARE TO BE GALVANIZED
3. MAINTAIN MINIMUM EDGE DISTANCE OF 1" ON ALL DRILLED HOLES
4. SAND AND PREP TOP, BOTTOM, AND INSIDE FACE OF ALL RAIL
5. IF A RAIL TIMBER IS CONTINUOUS OVER A POST ONLY 2 BOLTS ARE REQUIRED TO ATTACH RAIL TO POST. BOLTS INSTALLED ON CONTINUOUS RAILS SHALL BE CENTERED ON POST.
6. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION
7. FOLLOW MASSDOT PROVISIONS FOR STANDARD DIRECT BURIAL POST FOOTING.

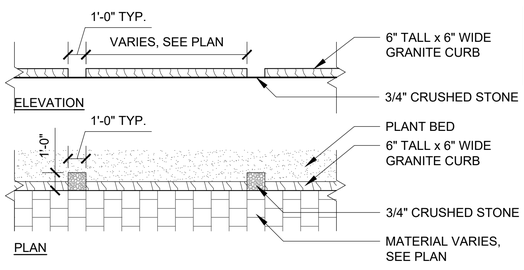


1 TIMBER RAIL
1/2" = 1'–0"

NOTE:
1. ALL WOOD TO BE YELLOW CEDAR.
2. ALL HARDWARE TO BE GALVANIZED
3. MAINTAIN MINIMUM EDGE DISTANCE OF 1" ON ALL DRILLED HOLES
4. SAND AND PREP TOP, BOTTOM, AND INSIDE FACE OF ALL RAIL
5. IF A RAIL TIMBER IS CONTINUOUS OVER A POST ONLY 2 BOLTS ARE REQUIRED TO ATTACH RAIL TO POST. BOLTS INSTALLED ON CONTINUOUS RAILS SHALL BE CENTERED ON POST.
6. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION
7. FOLLOW MASSDOT PROVISIONS FOR STANDARD DIRECT BURIAL POST FOOTING.



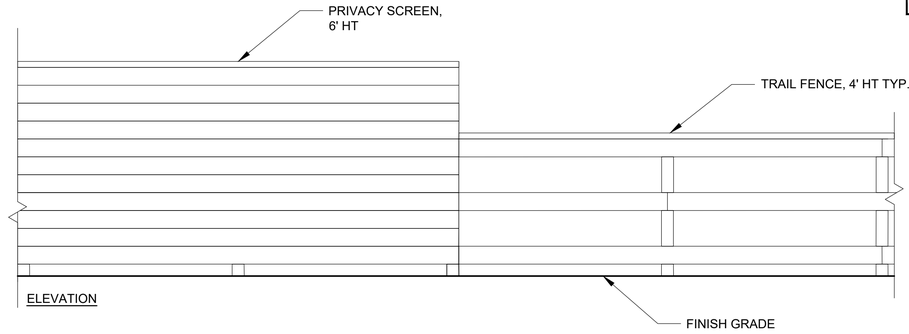
2 PRIVACY SCREEN
1/2" = 1'–0"



NOTE:
1. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION.

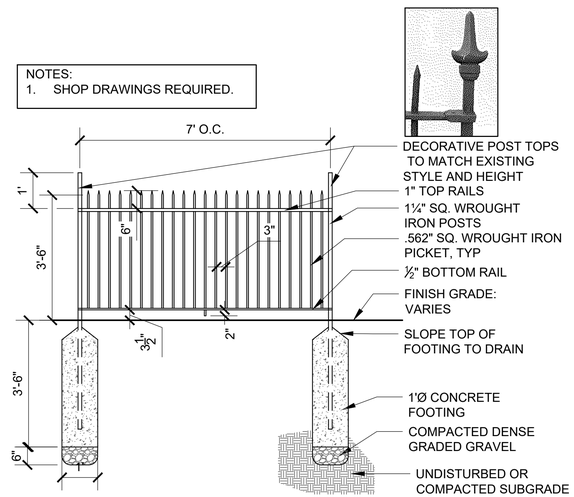
3 GRANITE CURB WITH WATER INFILTRATION
1/4" = 1'–0"

NOTE:
1. SEE LANDSCAPE PLAN FOR LOCATIONS OF PRIVACY SCREEN.
2. PRIVACY SCREEN HEIGHTS ARE BASED OFF ELEVATION ABOVE COMMUNITY TRAIL, FINAL FENCE HEIGHT VARIES DEPENDING ON ELEVATION AT FOOTINGS.

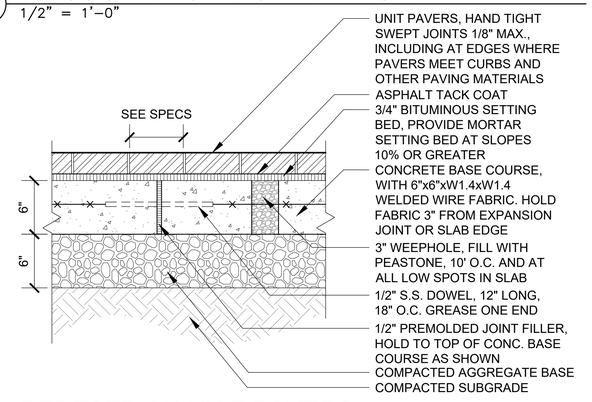


4 PRIVACY SCREEN TO TIMBER RAILING TRANSITION
1/2" = 1'–0"

NOTES:
1. SHOP DRAWINGS REQUIRED.

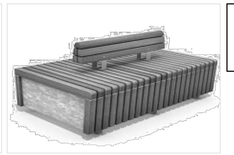


5 WROUGHT IRON PICKET FENCE
1/2" = 1'–0"



6 PEDESTRIAN UNIT PAVERS
1 1/2" = 1'–0"

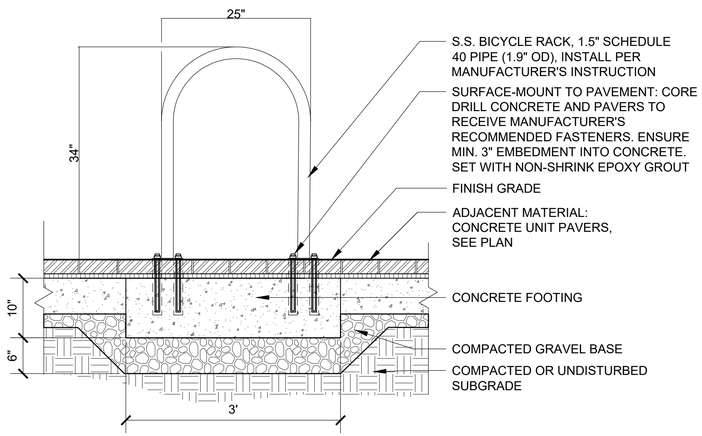
TYPE 1
3'W X 8' L X 19-24"H



TYPE 2
4'W X 6.75' L X 18" H WITH BACKREST

MATERIALS:
WOOD: CUMARU
METAL: GALVANIZED STEEL

7 PARK BENCH
N.T.S.



8 BICYCLE RACK
1" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	108	199
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg references\xref\607756_HD (Border Sheet).dwg ----
609204_HD (BORDER SHEET).DWG Plotted on ----

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	109	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS

Plotted on Dec-25 3:31 PM
609204_HD(DET).DWG
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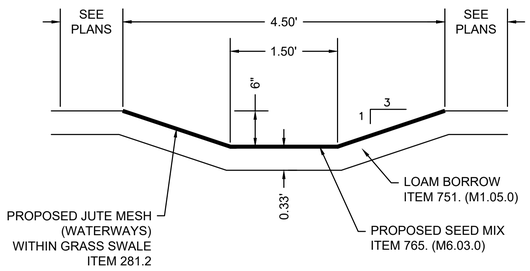
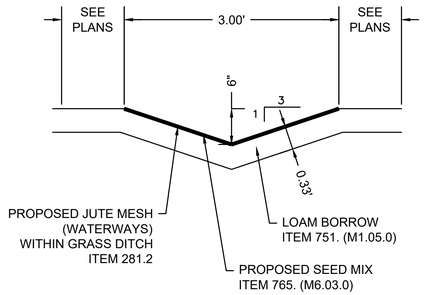


NOTES:

1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
2. EXCAVATION AND GRADING OF THE SWALE SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

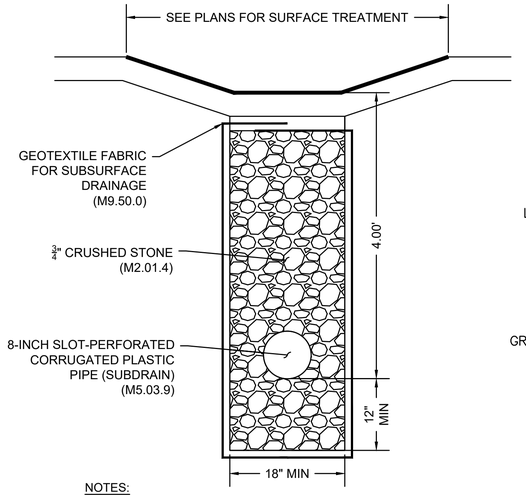
GRASS SWALE
NOT TO SCALE



NOTES:

1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
2. EXCAVATION AND GRADING OF THE DITCH SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

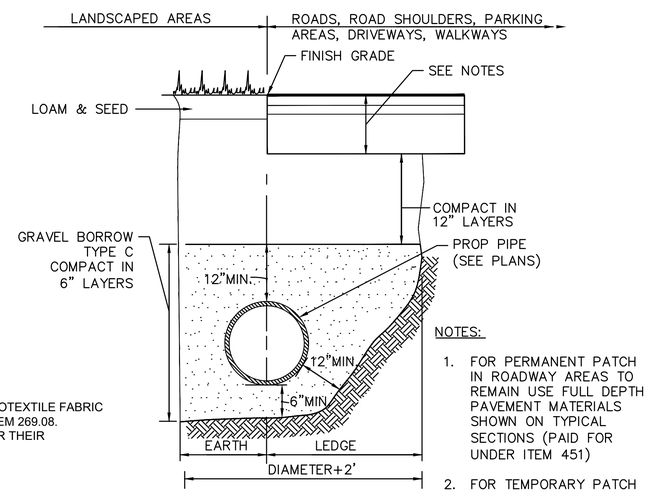
GRASS DITCH
NOT TO SCALE



NOTES:

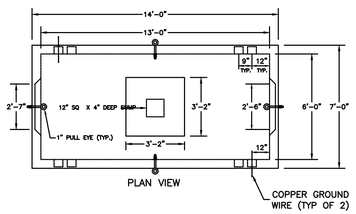
1. EXCAVATION, GRADING, CRUSHED STONE, PERFORATED PIPE, GEOTEXTILE FABRIC SHALL BE INCLUDED FOR MEASUREMENTS AND PAYMENT UNDER ITEM 269.08.
2. SURFACE TREATMENT SHALL BE MEASURED AND PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

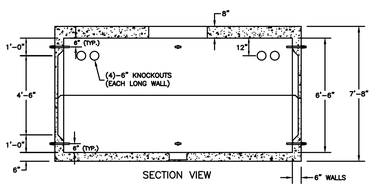
8-INCH SUB-DRAIN
NOT TO SCALE

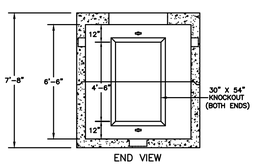


NOTES:

1. FOR PERMANENT PATCH IN ROADWAY AREAS TO REMAIN USE FULL DEPTH PAVEMENT MATERIALS SHOWN ON TYPICAL SECTIONS (PAID FOR UNDER ITEM 451)
2. FOR TEMPORARY PATCH USE 3 INCHES HMA BINDER MIX (PAID FOR UNDER ITEM 472)



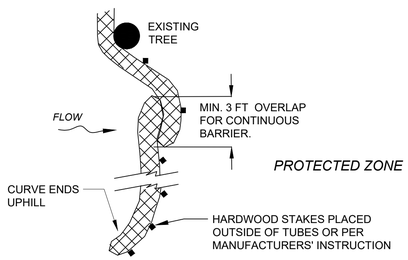




NOTES:

1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. STEEL REINFORCEMENT: ASTM–A615, GRADE 60, 1" MIN. COVER.
3. DESIGNED FOR HS20–44 LOADING.

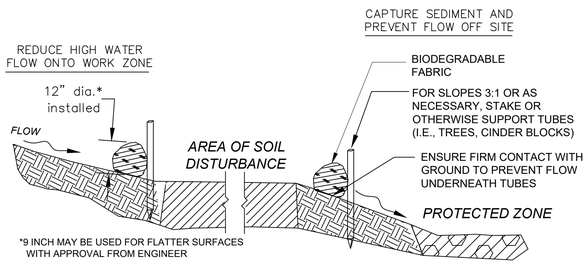
ELECTRIC MANHOLE 6'X13'
NOT TO SCALE



PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

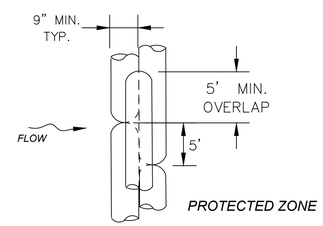
PLAN VIEW



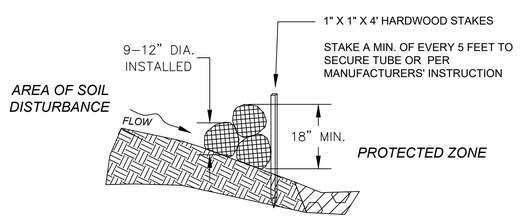
SECTION

SEDIMENT BARRIER - COMPOST FILTER TUBE
NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED

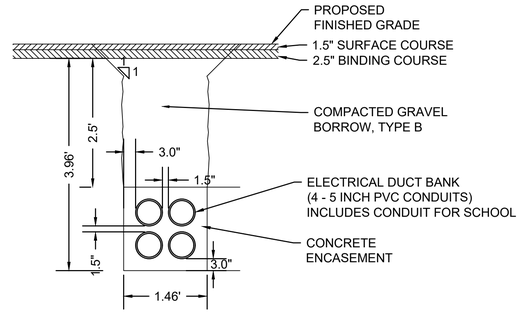


PLAN VIEW



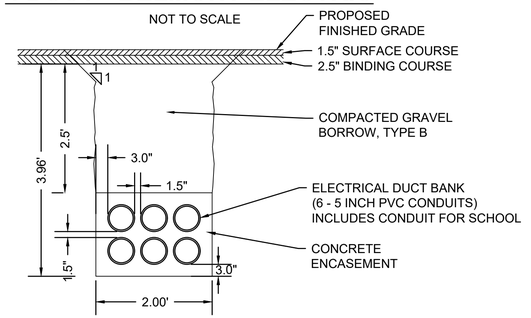
SECTION

COMPOST FILTER TUBES STACKED
NOT TO SCALE



ELECTRIC TRENCH
4 DUCT - BELMONT ELECTRIC

NOT TO SCALE

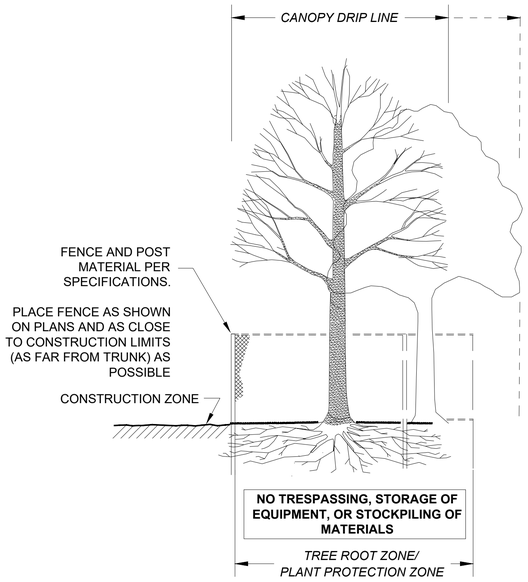


ELECTRIC TRENCH
6 DUCT - BELMONT ELECTRIC

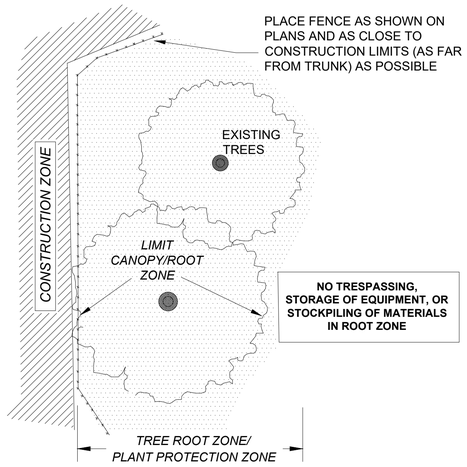
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	110	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS



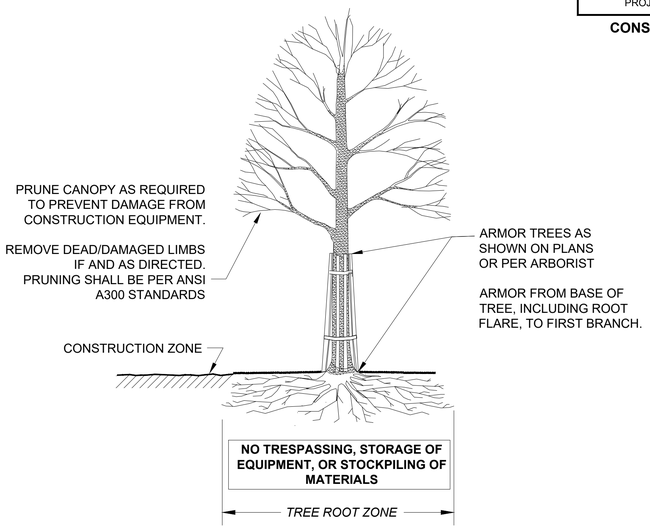
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

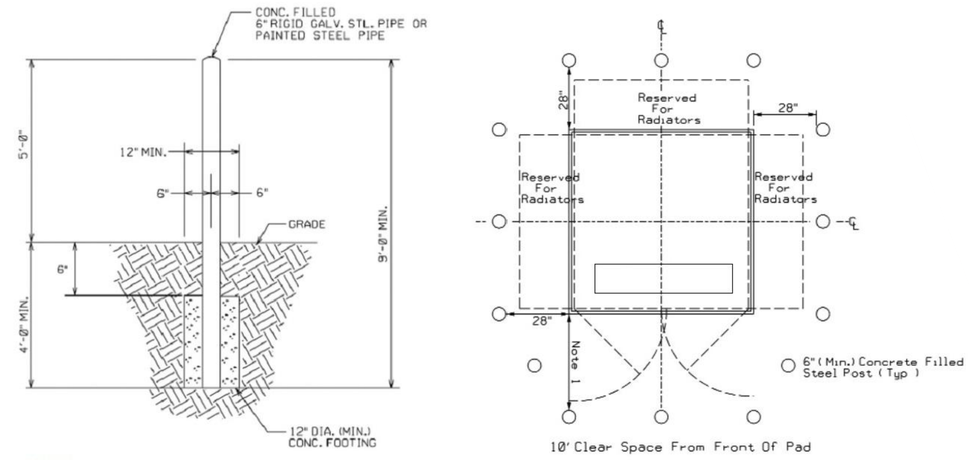
TREE PROTECTION - ROOT ZONE

NOT TO SCALE



SECTION - TRUNK ARMORING & PRUNING

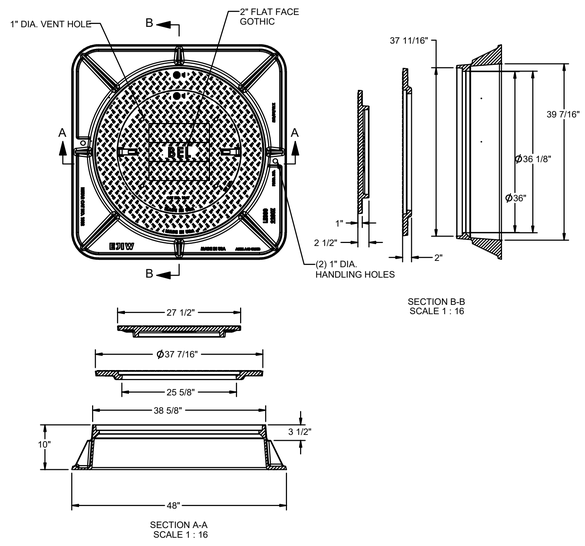
TREE PROTECTION - TRUNK



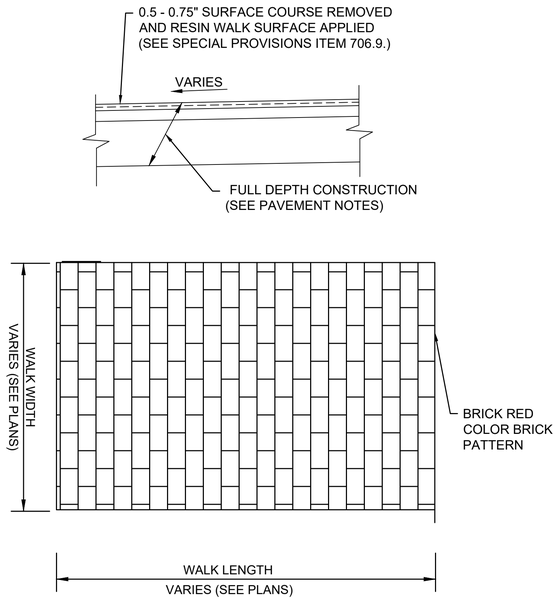
NOTES:
1) Five foot minimum clearance from front of pad
2) Belmont Light engineering shall designate the number and location bollards by marking the above drawing
3) For installations around oil containment curbs, install bollards six feet minimum on all applicable sides.

Bollards Required	●
Bollards Not Required	Ⓧ

STEEL BOLLARD
NOT TO SCALE



ELECTRIC MANHOLE COVER AND FRAME
NOT TO SCALE

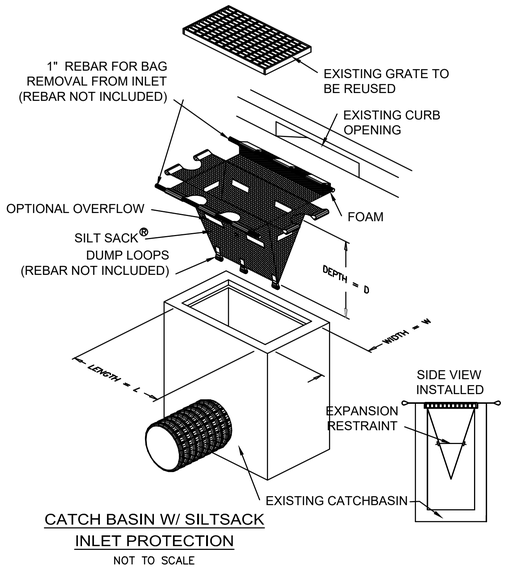


DECORATIVE RESIN WALK
NOT TO SCALE

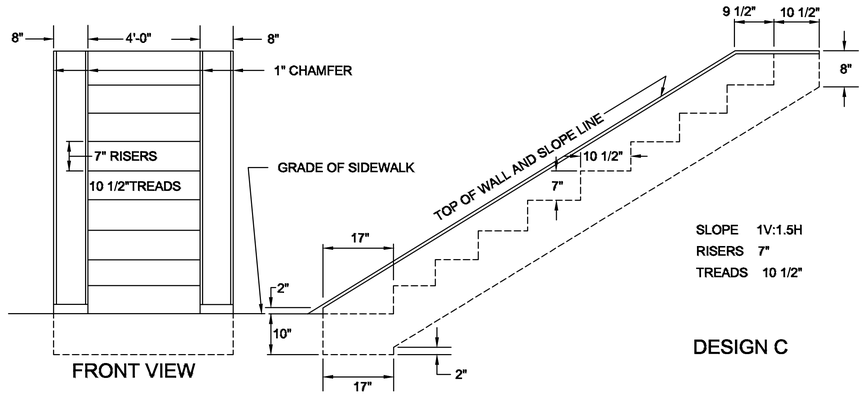
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 12/17/2025 3:31 PM
609204_HD(DET).DWG Plotted on Dec-25 3:31 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	111	199
PROJECT FILE NO.		609204	

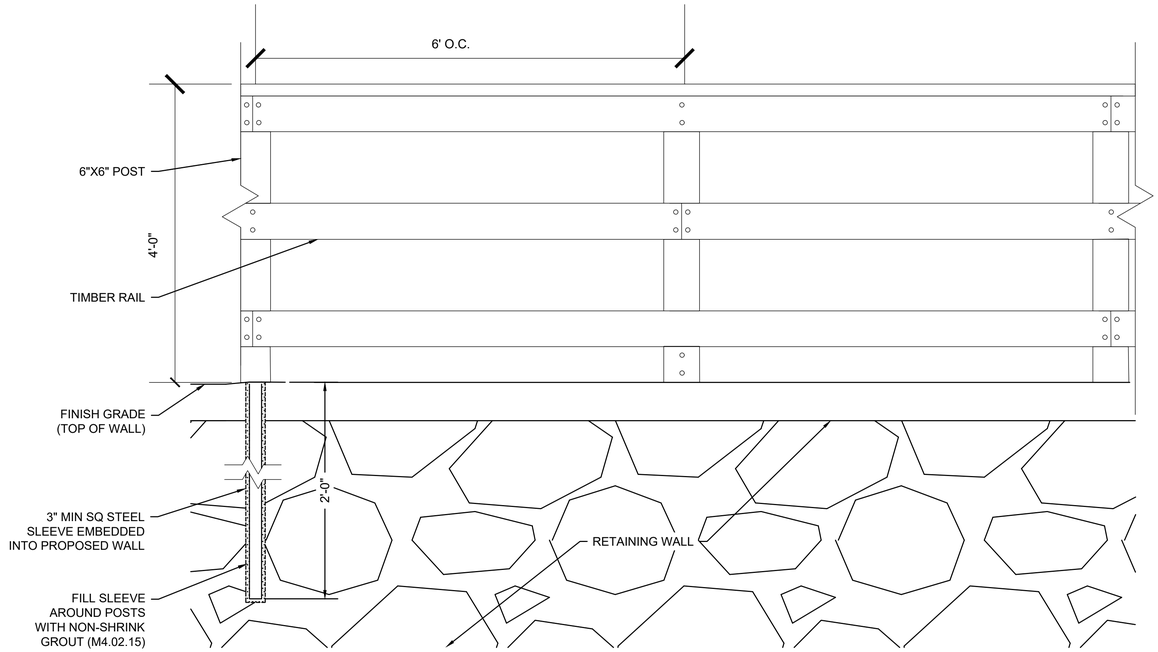
CONSTRUCTION DETAILS



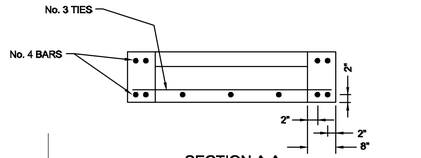
CATCH BASIN W/ SILTSACK
INLET PROTECTION
NOT TO SCALE



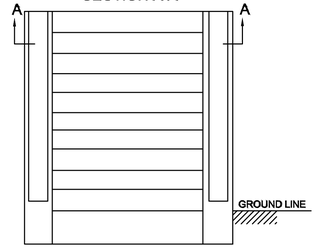
NOTES:
1. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM EXCEPT RISERS AND TREADS WHICH HAVE $\frac{1}{4}$" TOLERANCE.
2. FOR REINFORCING STEEL AND CONCRETE QUANTITIES SEE DRAWING 901.5.2
3. CONTRAST MUST BE SHOWN ON EACH STEP.



TIMBER RAIL MOUNTED ON RETAINING WALL DETAIL
NOT TO SCALE

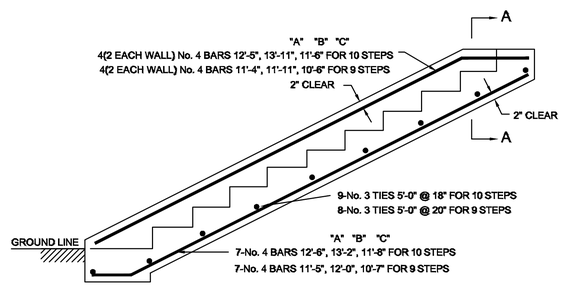


SECTION A-A



FRONT VIEW

NOTES:
1. **FOR DESCRIPTIONS , MATERIALS AND CONSTRUCTION METHODS SEE STANDARD SPECIFICATIONS.**
2. **PAYMENT WILL BE BASED ON THE QUANTITIES SHOWN IN THE ACCOMPANYING TABLES.**
3. **RAILING AS REQUIRED BY AAB AND STATE BUILDING CODE**



SIDE VIEW

STEP NOS.	DESIGN C					
	QUANTITIES - C.U. FT				TOTAL C.Y.	REINF. STEEL LBS
	BASE	STEPS	2-WALLS	TOTAL		
10	4.72	33.54	22.00	60.25	2.23	102
11	4.72	36.89	24.04	65.65	2.43	112
12	4.72	40.24	26.08	71.04	2.63	122

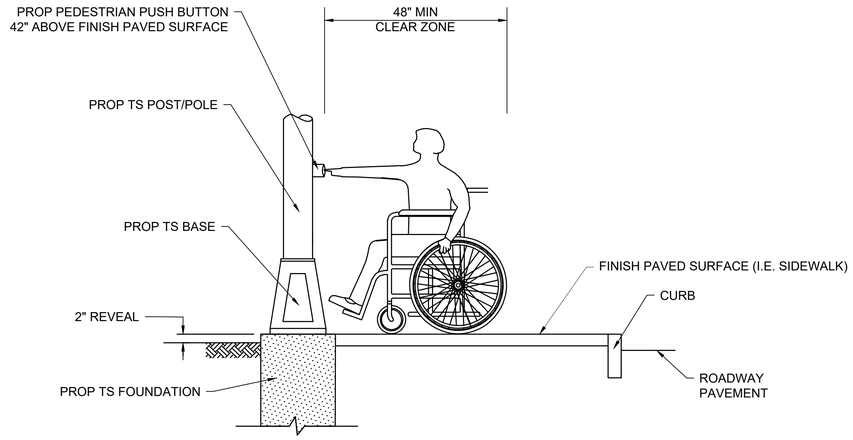
ALL CONCRETE SHALL BE 4,000 PSI (SEE MASSDOT SPECIFICATIONS FOR DESIGN REQUIREMENTS)

CEMENT CONCRETE STEPS - 901.5.1 & 901.5.2 DESIGN C
NOT TO SCALE

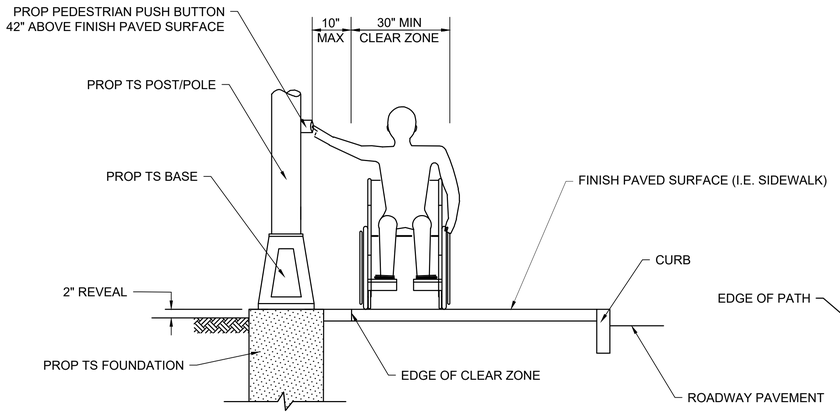
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 12/17/2025 4:27 PM
609204_HD(DET).DWG Plotted on Dec-25 4:27 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	112	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS



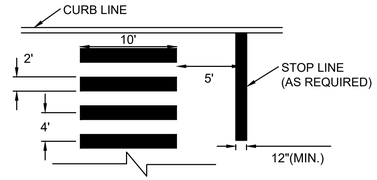
FORWARD APPROACH (SIDE REACH)
NOT TO SCALE



PARALLELL APPROACH (SIDE REACH)

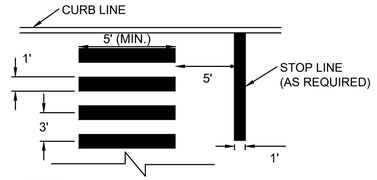
NOTES:
1. A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 WMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.
   1.1. WHERE A FORWARD APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.
   1.2. WHERE A PARALLEL APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.

PEDESTRIAN PUSH BUTTON CLEAR ZONE
NOT TO SCALE



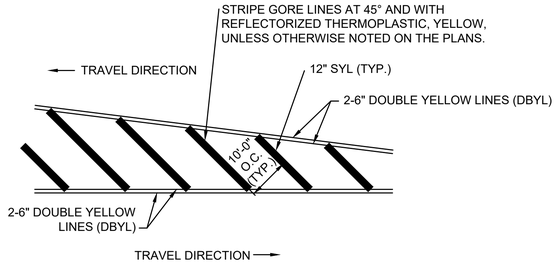
NOTES:
1. ALL PROPOSED STOP LINES AND CROSSWALKS SHALL BE REFLECTORIZED THERMOPLASTIC.

ROADWAY CROSSWALK & STOP LINE
NOT TO SCALE

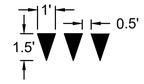


NOTES:
1. ALL PROPOSED STOP LINES AND CROSSWALKS SHALL BE REFLECTORIZED THERMOPLASTIC.

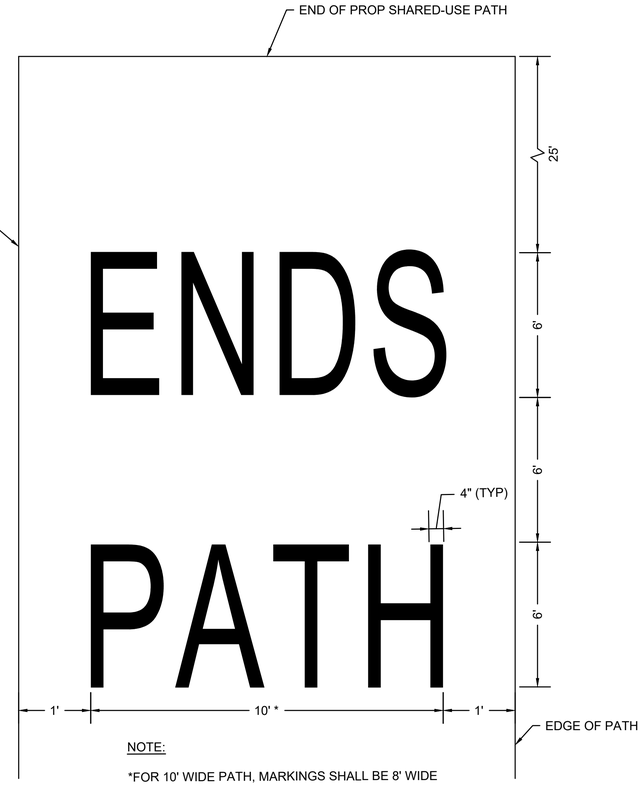
PATH CROSSWALK & STOP LINE
NOT TO SCALE



TYPICAL GORE MARKINGS
NOT TO SCALE

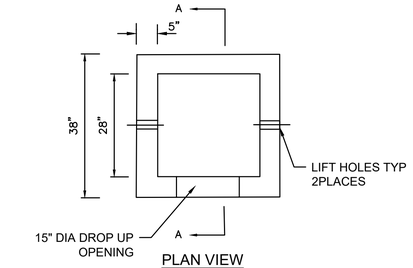


SOLID WHITE YIELD MARKINGS
FOR BIKE LANES
NOT TO SCALE

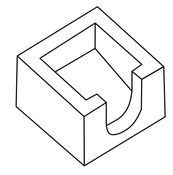


NOTE:
*FOR 10' WIDE PATH, MARKINGS SHALL BE 8' WIDE

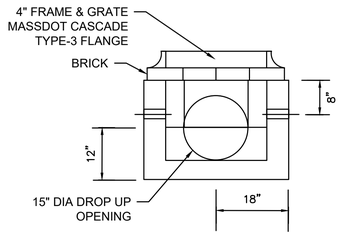
"PATH ENDS" MARKING DETAIL
NOT TO SCALE



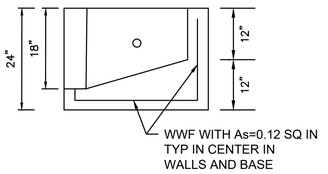
PLAN VIEW



ISOMETRIC



ELEVATION



SECTION A-A

NOTES:
1. DESIGNED FOR AASHTO HS25-44 LOADING.
2. CONCRETE STRENGTH fc=4000 PSI
3. REINFORCING STEEL ASTM A185 (wwf) fy=60,000 PSI
4. CURB INLETS ARE REQUIRED WHEN GUTTER INLETS ARE INSTALLED AGAINST CURBING.

SPECIAL GUTTER INLET
NOT TO SCALE

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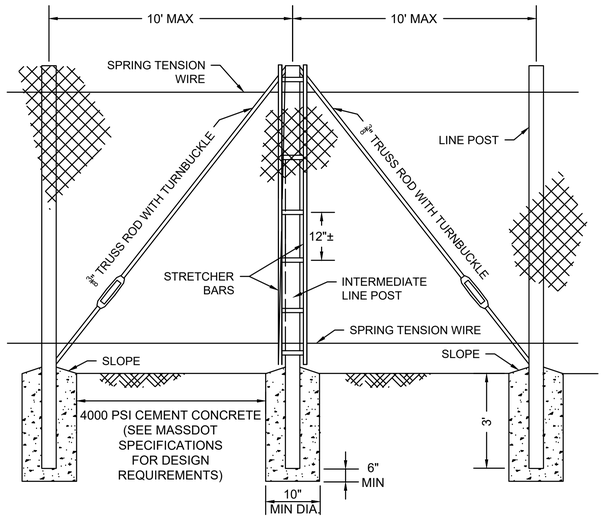
609204_HD(DET).DWG Plotted on Dec-25 3:32 PM

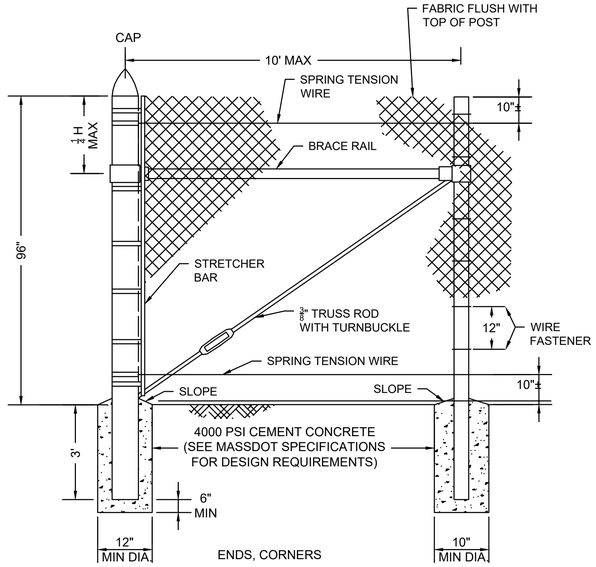
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	113	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS



INTERMEDIATE POST

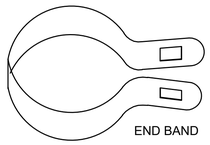


ENDS, CORNERS

NOTES:

1. FABRIC FOR FENCES 4' OR LESS IN HEIGHT: TOP SELVAGE TO HAVE KNUCKLED FINISH. BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
   FABRIC FOR FENCES 5' OR OVER IN HEIGHT: BOTH TOP AND BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
2. GRADE OF FENCE TO BE PARALLEL WITH THE GRADE OF SIDEWALKS, CURBING, GROUND OR TOP OF WALL.
3. INTERMEDIATE POST INTERVALS NOT TO EXCEED 500 FEET.
4. SPACING OF LINE POST ON CURVES, SEE DRAWING 644.0.1
5. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE STANDARD SPECIFICATIONS.
6. SPRING TENSION WIRE TO BE FASTENED TO FABRIC WITH 11 GAUAGE HOG RINGS AT 1' INTERVALS.
7. SPRING TENSION WIRE TO BE FASTENED TO LINE POSTS WITH CLIPS.
8. LINE POSTS TO BE DRIVEN EXCEPT WHERE NOTED ABOVE.

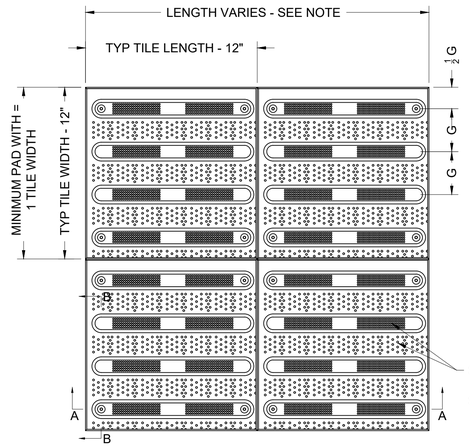
SPRING TENSION WIRE
MINIMUM OF (5) TURNS AROUND THE SPRING TENSION WIRE TO END INSTLLATION. ALL BANDS SHALL BE ROUND ON ROUND POSTS.



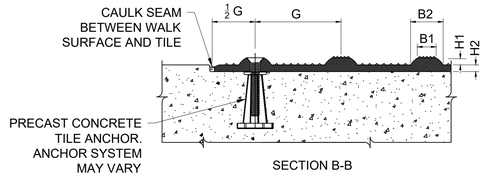
END BAND

CHAIN LINK FENCE (SPRING TENSION WIRE)

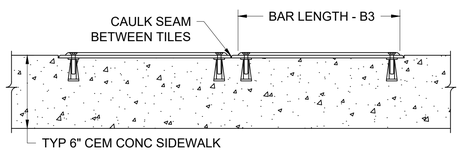
NOT TO SCALE



PLAN



SECTION B-B



SECTION A-A

DIMENSION	RANGE (IN.)
B1	0.75 - 0.95
B2	1.15 - 1.35
B3	11.00 - 11.40
H1	0.18 - 0.20
H2	SEE NOTE
G	2.35 - 3.00

NOTES:
1. TDI PAD TO BE PAID UNDER ITEM 701.21. SEE SPECIFICATIONS FOR BASIS OF MEASUREMENT.
2. THE WIDTH OF THE TDI PAD SHOULD BE A MINIMUM OF 12" OR ONE TILE WIDTH. PAD WIDTH CAN BE INCREASED BY A COMBINATION OF MULTIPLE ADJACENT TILES.
3. THE CONTINUOUS LENGTH OF EACH TDI PAD SHALL BE A MINIMUM OF 12" AND INCREASE IN INCREMENTS OF 12".
4. TDI TREATMENTS ALONG CURB EDGES THAT ARE LONGER THAN EIGHT (8) FEET SHALL INCLUDE A 4" SPACE BETWEEN ADJACENT PADS TO ALLOW STORM WATER TO DRAIN OFF THE SIDEWALK INTO THE STREET GUTTER.
5. THE WALK SURFACE WITHIN THE LIMITS OF THE TDI PAD SHALL BE MILLED AT A DEPTH (H2) SPECIFIED BY THE MANUFACTURER. ALL EDGES BETWEEN TILES AND THE ADJACENT CONCRETE SURFACES SHALL BE CAULKED.
6. TDI PAD SURFACE MUST MEET THE SKID RESISTANCE REQUIREMENTS SPECIFIED FOR ITEM 701.21.
7. TDI PAD COLOR SHALL BE PALE YELLOW, CONFORMING TO FEDERAL NO. 23594, UNLESS OTHERWISE NOTED ON PLANS OR IN THE SPECIFICATIONS FOR ITEM 701.21.

TACTILE DIRECTIONAL INDICATORS (TDI) GUIDE PAD DETAIL

NOT TO SCALE

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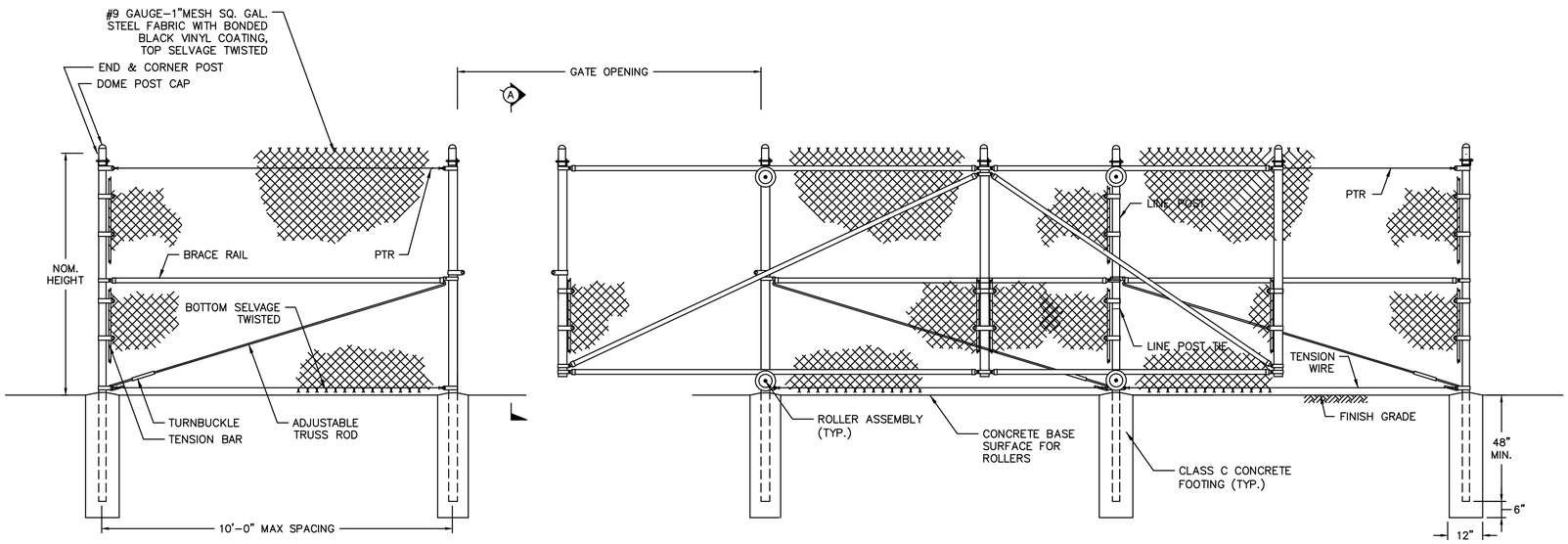
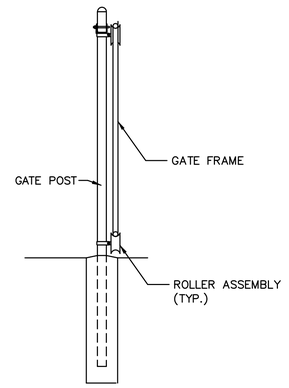
609204_HD(DET).DWG Plotted on Dec-25 3:32 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	114	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS





SECTION A-A

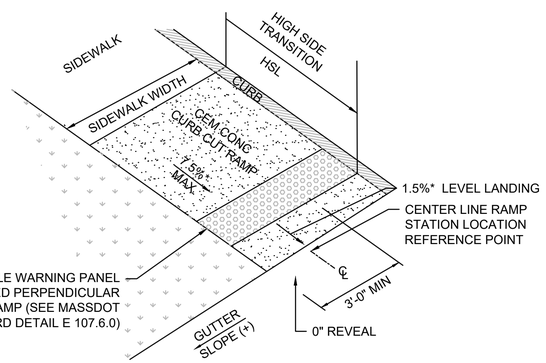
FENCE HEIGHT	END, CORNER & PULL POSTS	LINE POSTS WITH CORNER ARM	RAILS & BRACES
NOM. HT.	DIAMETER	DIAMETER	DIAMETER
8'–0"	2.875"	2.375"	1.625"

NOTES:

1. ALL STEEL TUBING SHALL BE SCHEDULE 40 HOT DIP GALVANIZED W/ BONDED BLACK VINYL COATING.
2. FOOTING WIDTH TO BE 4 TIMES THE POST WIDTH.
3. ALL POSTS AND RAILS SHALL BE ROUND.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF ALL CHAIN LINK FENCES AND GATES.
5. REFER TO PLANS FOR FENCE LOCATION.

CHAIN LINK FENCE AND SLIDING GATE

NOT TO SCALE



LEGEND
HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
* = TOLERANCE FOR CONSTRUCTION (± 0.5%)

PED. CURB RAMP DATA - ONE DIRECTION OF TRAVEL								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
4	BRIGHTON STREET	201+13	14.17	8.00'	8.00'	2.90%	6.5'	--
5	BRIGHTON STREET	201+07	14.78	6.00'	6.00'	-2.90%	--	6.5'

PEDESTRIAN CURB RAMP FOR ONE DIRECTION OF TRAVEL

NOT TO SCALE

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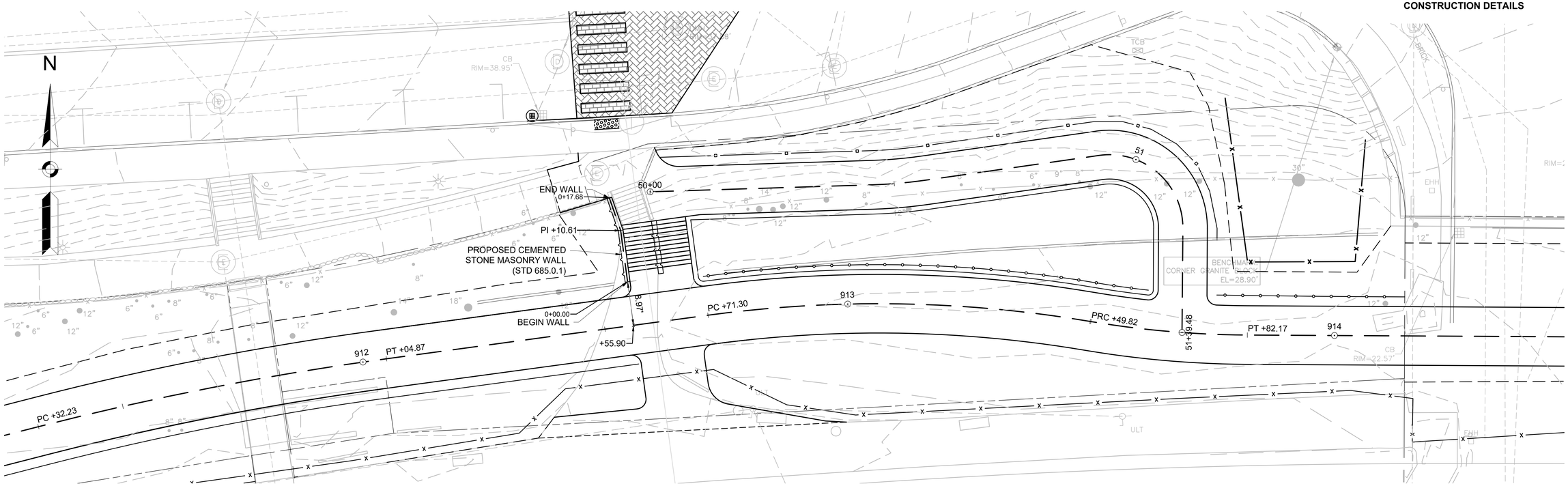
609204_HD(DET).DWG Plotted on Dec-25 5:13 PM

BELMONT STATION - PROPOSED WALL DETAIL AND PROFILE

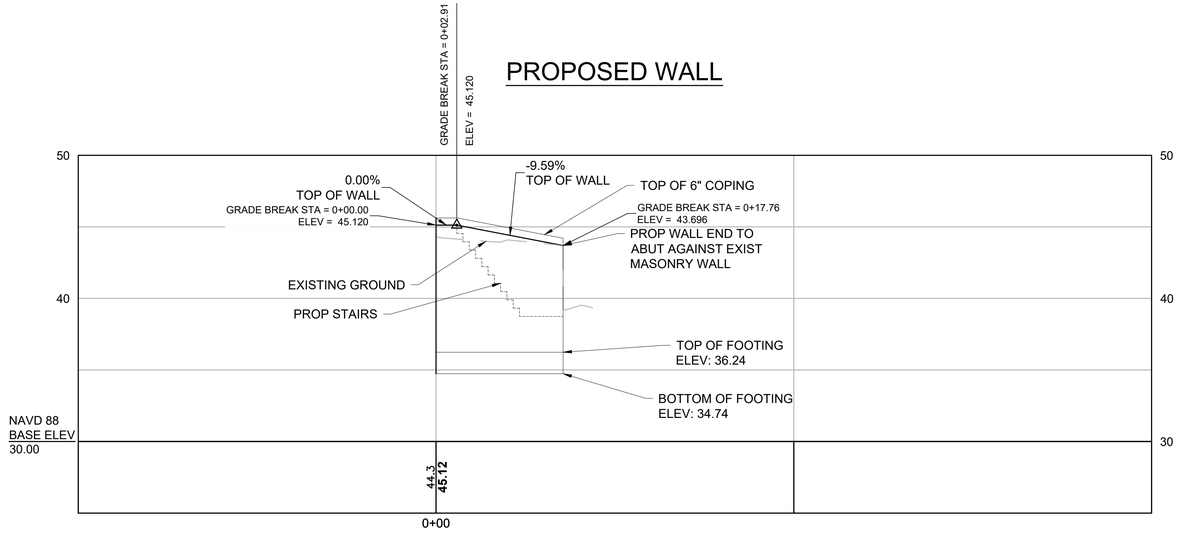
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	115	199
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS



PROPOSED WALL



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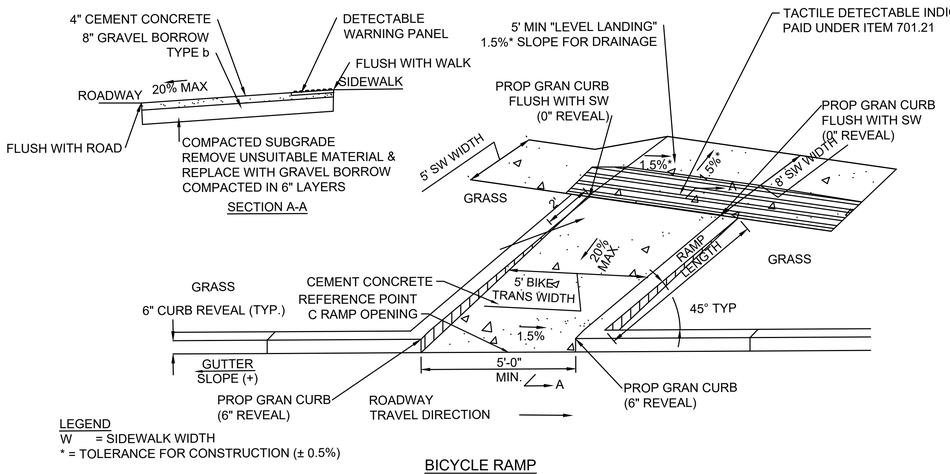
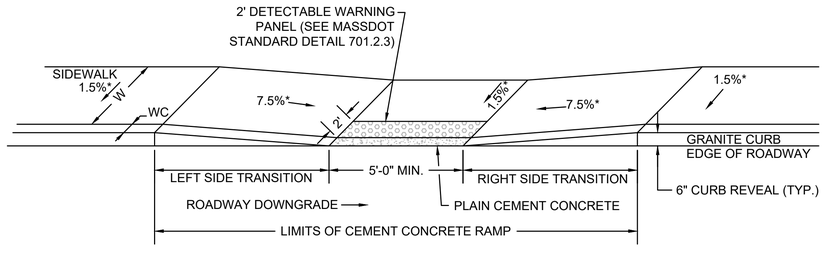
609204_HD(WALL PROF).DWG Plotted on Dec-25 3:35 PM



BICYCLE RAMP
NOT TO SCALE

NOTE
ALL DETECTABLE WARNING PANELS SHALL BE BRICK RED IN COLOR.

BIKE RAMP CHART					
BIKE RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP OPENING WIDTH	RAMP LENGTH
1	BELMONT PATH	N: 2968921.9690	E: 742555.4453	8.00	11.00
2	BELMONT PATH	900+25 LT	21.50	8.00	11.00

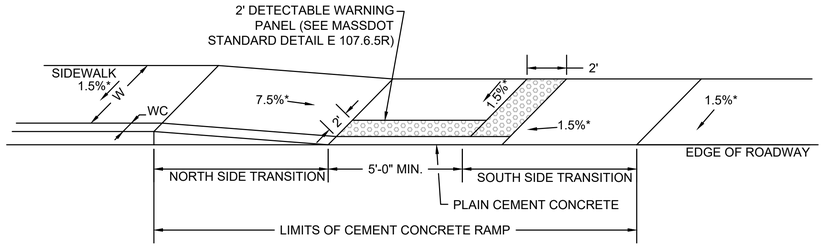


GUTTER
SLOPE (+)

LEGEND
CC = CEMENT CONCRETE
HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT DETAIL E 107.9.0R)
W = SIDEWALK WIDTH (USABLE WIDTH)
W1 = PERPENDICULAR RAMP LENGTH (W-4')
Wc = CURB WIDTH (VARIES 0"-6")
* = TOLERANCE FOR CONSTRUCTION (±0.5%)

PEDESTRIAN CURB RAMP
LESS THAN 12'-4" SIDEWALK
NOT TO SCALE

PED. CURB RAMP DATA - LESS THAN 12'4" SIDEWALK								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
1	BELMONT PATH	912+56	43.08	5.00	7.00	4.15%	6.5'	15.0'



GUTTER
SLOPE (+)

LEGEND
CC = CEMENT CONCRETE
HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT DETAIL E 107.9.0R)
W = SIDEWALK WIDTH (USABLE WIDTH)
W1 = PERPENDICULAR RAMP LENGTH (W-4')
Wc = CURB WIDTH (VARIES 0"-6")
* = TOLERANCE FOR CONSTRUCTION (±0.5%)

PEDESTRIAN CURB RAMP
LESS THAN 12'-4" SIDEWALK AT RAILROAD CROSSING
NOT TO SCALE

PED. CURB RAMP DATA - LESS THAN 12'4" SIDEWALK								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
2	BELMONT PATH	959+38	0.00	10.00	6.00	-0.02%	6.5'	7.67'
3	BELMONT PATH	959+69	0.00	17.00	6.00	0.20%	5.0' **	6.5'

** 3" CURB REVEAL

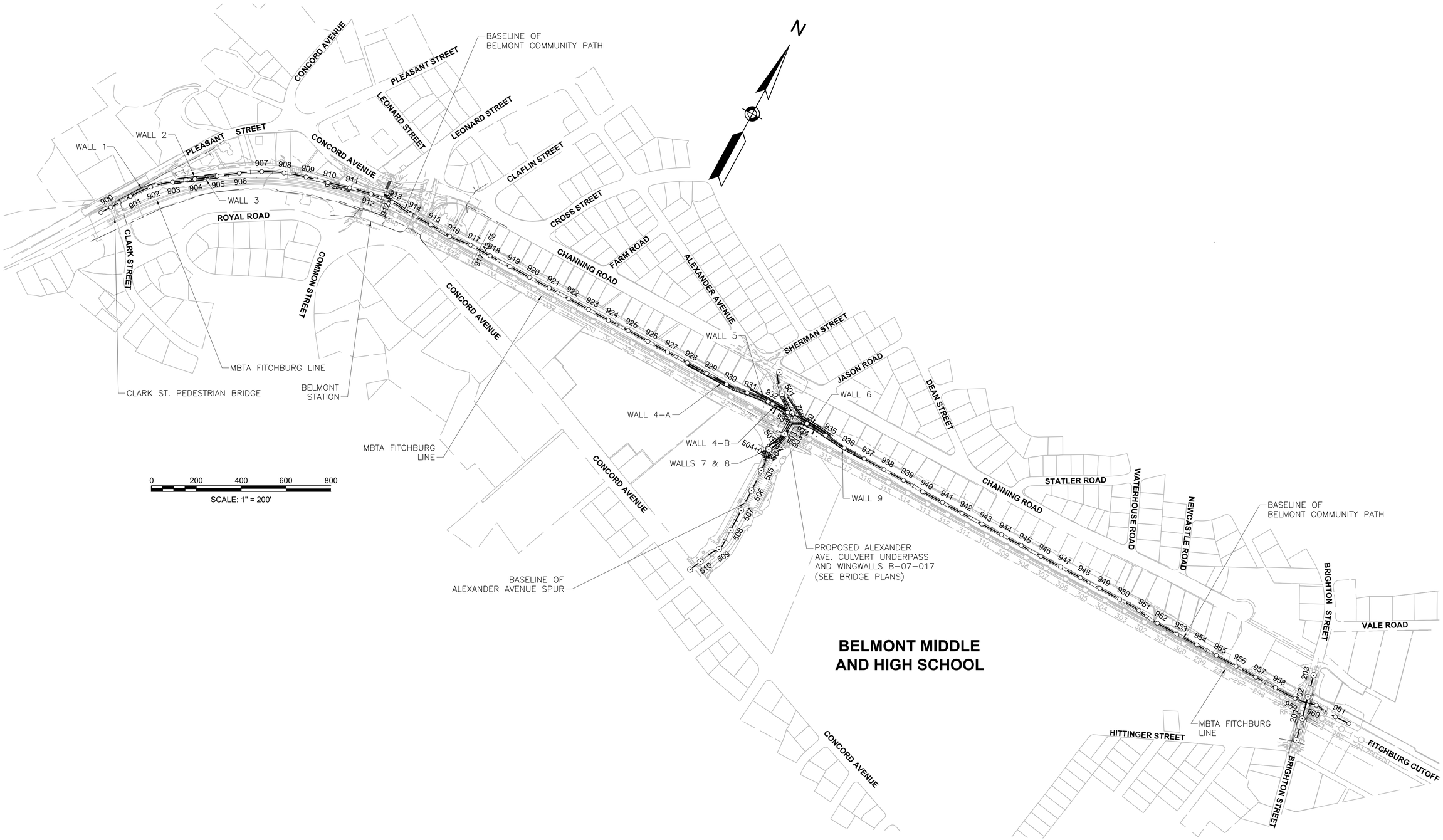
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 12/17/2025 5:11 PM
609204_HD(DET).DWG Plotted on Dec-25 5:11 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	117	199
PROJECT FILE NO.		609204	

RETAINING WALL KEY PLAN

609204_BRK(KEY PLAN).DWG Plotted on 17-Dec-2025 4:41 PM



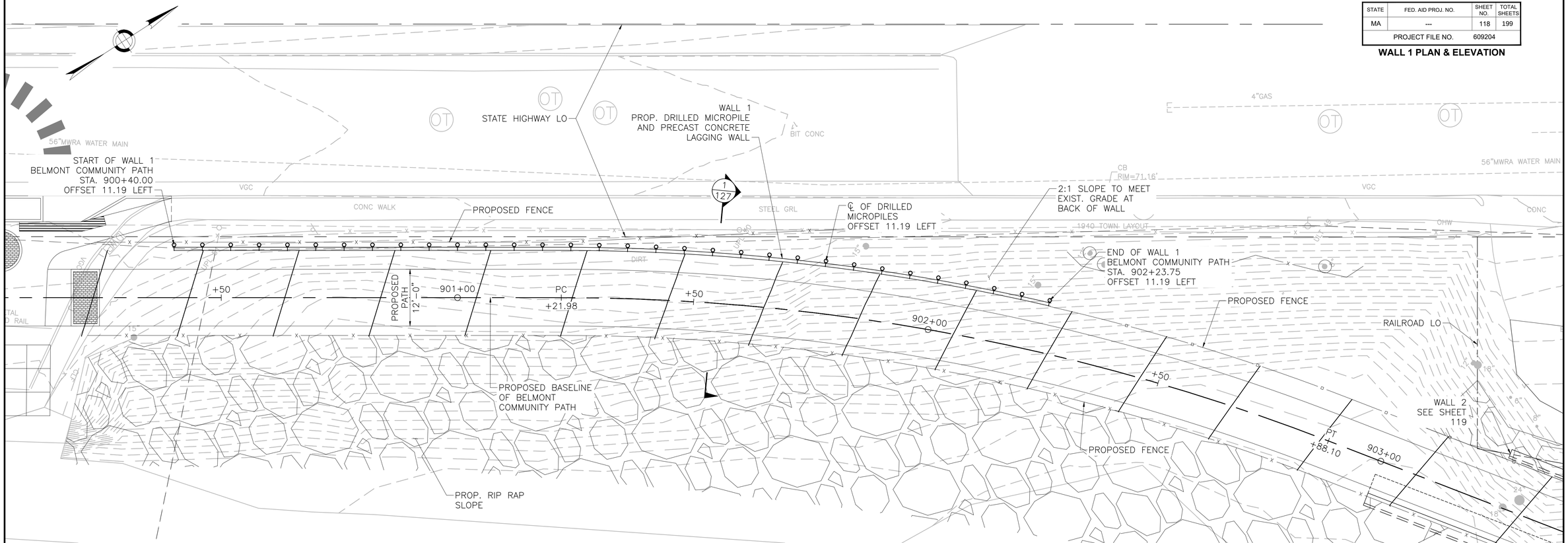
KEY PLAN – SITE RETAINING WALLS

SCALE: 1" = 200'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

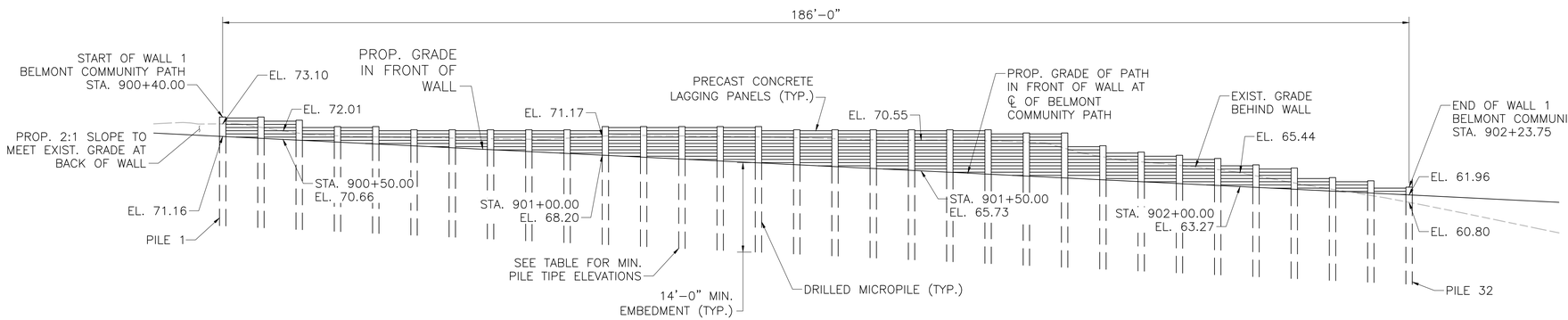
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	118	199
PROJECT FILE NO.	609204		

WALL 1 PLAN & ELEVATION



PLAN VIEW – WALL 1

SCALE: 1" = 10'



ELEVATION VIEW – WALL 1

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

PILE #	STATION	OFFSET	MIN. PILE TIP ELEV.
1	900+40.00	11.19 LT	57.16
2	900+46.00	11.19 LT	56.86
3	900+52.00	11.19 LT	56.56
4	900+58.00	11.19 LT	56.27
5	900+64.00	11.19 LT	55.98
6	900+70.00	11.19 LT	55.67
7	900+76.00	11.19 LT	55.36
8	900+82.00	11.19 LT	55.09
9	900+88.00	11.19 LT	54.82
10	900+94.00	11.19 LT	54.49
11	901+00.00	11.19 LT	54.16
12	901+06.00	11.19 LT	53.9
13	901+12.00	11.19 LT	53.64
14	901+18.00	11.19 LT	53.31
15	901+23.95	11.19 LT	52.98
16	901+29.82	11.19 LT	52.72
17	901+35.69	11.19 LT	52.42
18	901+41.56	11.19 LT	52.12
19	901+47.43	11.19 LT	51.83
20	901+53.30	11.19 LT	51.54
21	901+59.17	11.19 LT	51.24
22	901+65.04	11.19 LT	50.94
23	901+70.91	11.19 LT	50.65
24	901+76.78	11.19 LT	50.36
25	901+82.65	11.19 LT	50.06
26	901+88.52	11.19 LT	49.76
27	901+94.39	11.19 LT	49.46
28	902+00.26	11.19 LT	49.16
29	902+06.13	11.19 LT	48.87
30	902+12.00	11.19 LT	48.58
31	902+17.87	11.19 LT	48.28
32	902+23.74	11.19 LT	46.8

NOTE: SPOT GRADES ARE SHOWN AT THE ENDS OF THE WALL AND AT MAJOR STATION INTERVALS. SPOT GRADES PROVIDE THE ELEVATION OF THE PROPOSED PATH IN FRONT OF THE WALL AND ELEVATION OF THE EXISTING GRADE BEHIND THE WALL.

0 10 20 30 40

SCALE: 1" = 10'

WALL 1 – DRILLED MICROPILE AND PRECAST CONCRETE LAGGING WALL

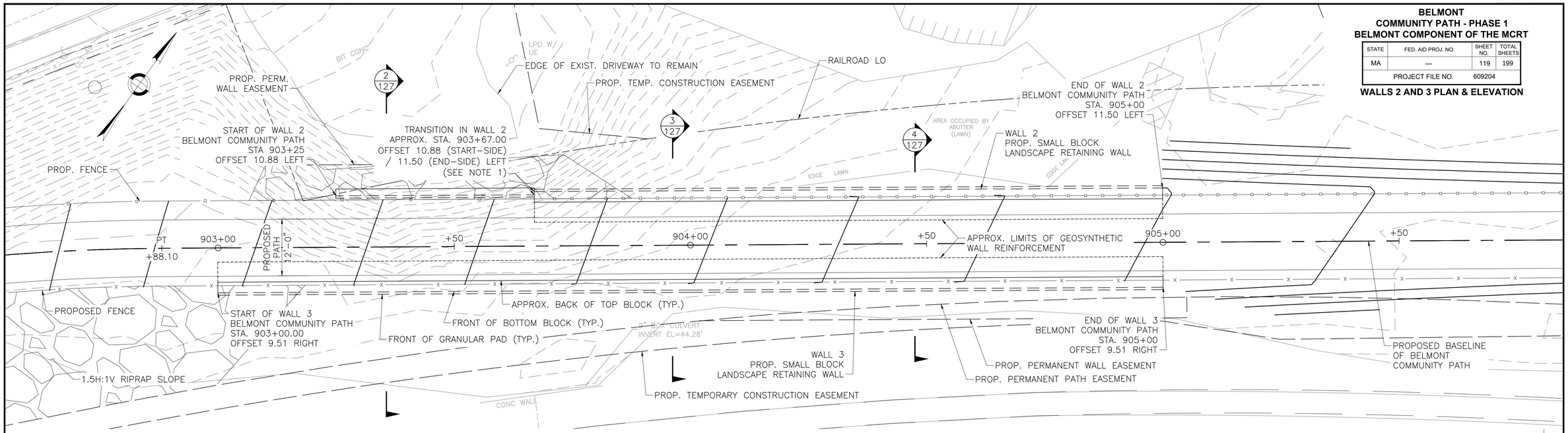
609204_BRI(P&E).DWG Plotted on 17-Dec-2025 4:41 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	119	199
PROJECT FILE NO.	609204		

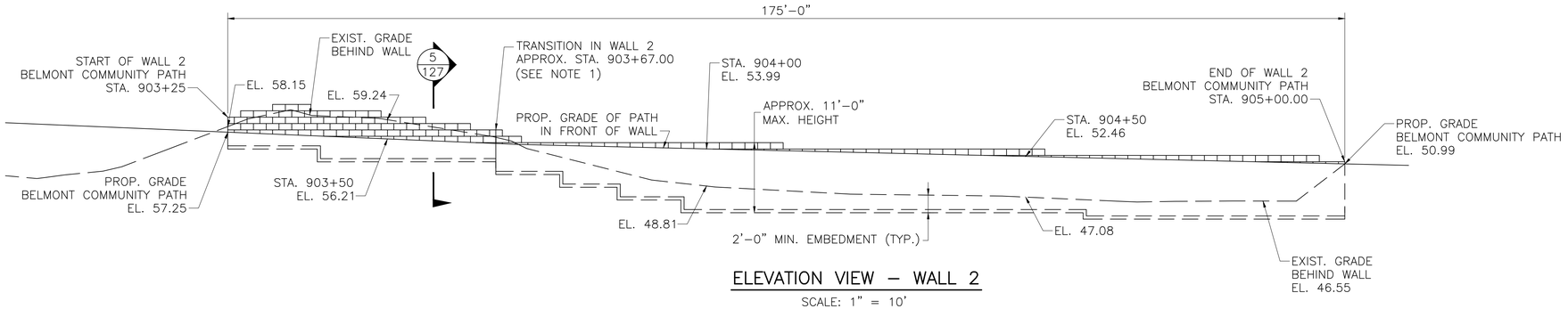
WALLS 2 AND 3 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 17-Dec-2025 4:41 PM



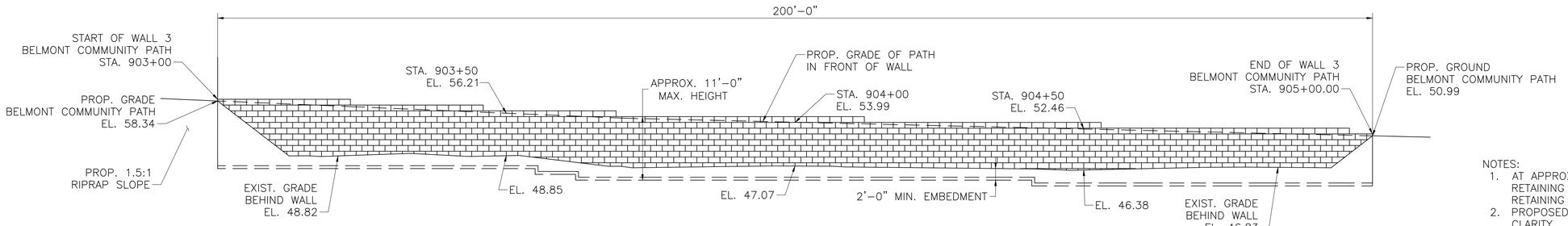
PLAN VIEW – WALLS 2 & 3

SCALE: 1" = 10'



ELEVATION VIEW – WALL 2

SCALE: 1" = 10'



ELEVATION VIEW – WALL 3

SCALE: 1" = 10'

NOTES:
1. AT APPROX. STA. 903+67.00 WALL 2 TRANSITIONS FROM RETAINING EXISTING GRADE ABOVE PROPOSED PATH TO RETAINING PATH ABOVE EXISTING GRADE.
2. PROPOSED FENCE NOT SHOWN ON ELEVATION VIEWS FOR CLARITY.
3. WALL 2 & 3 ELEVATIONS SHOWN ARE OF THE PROPOSED GRADES IN FRONT OF AND BEHIND THE WALLS AT ENDS AND EVERY 50 FT.
4. ELEVATION OF WALL 2 TAKEN FROM BEHIND THE WALL.

0 10 20 30 40

SCALE: 1" = 10'

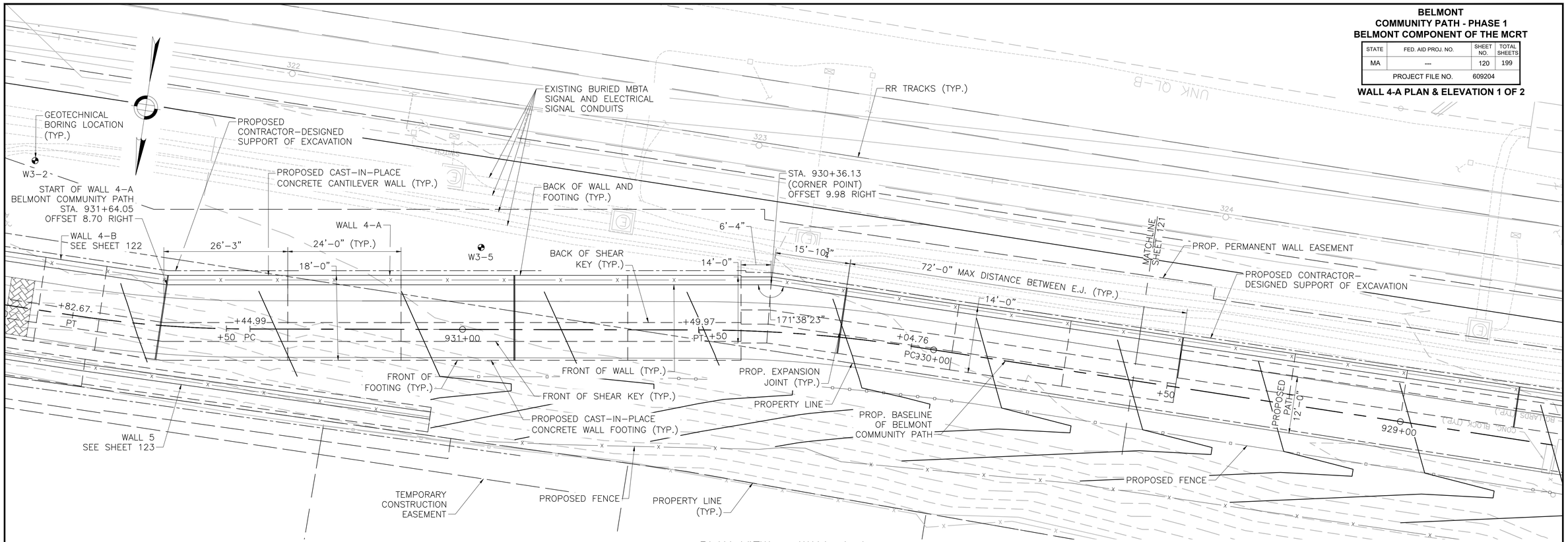
WALLS 2 AND 3 – SMALL BLOCK LANDSCAPING RETAINING WALLS

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	120	199
PROJECT FILE NO.	609204		

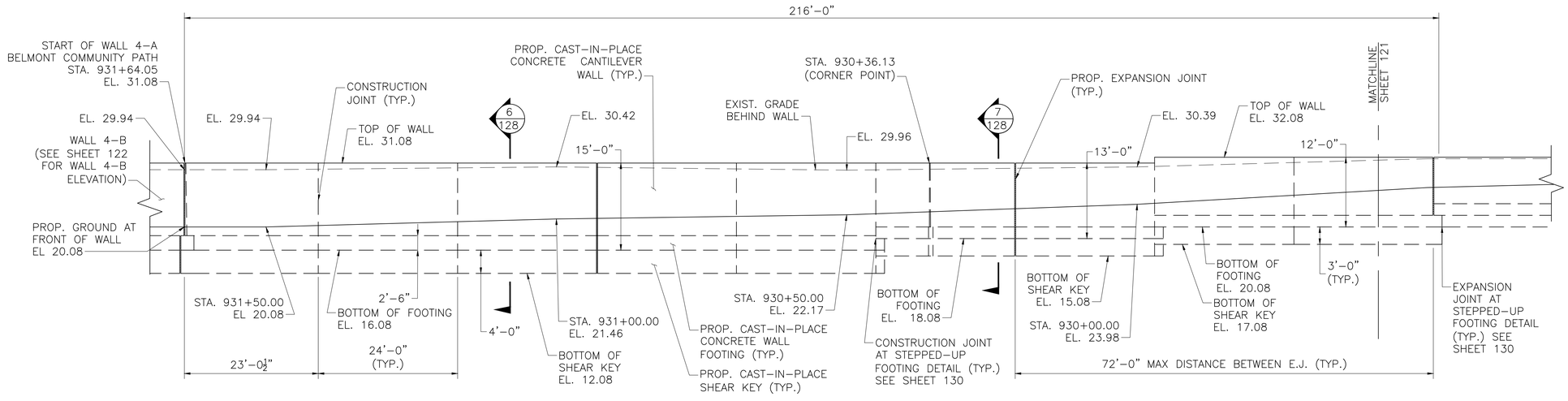
WALL 4-A PLAN & ELEVATION 1 OF 2

609204_BR(P&E).DWG Plotted on 17-Dec-2025 4:42 PM



PLAN VIEW – WALL 4-A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-A

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

WALL 4-A – CAST-IN-PLACE CONCRETE CANTILEVER WALL

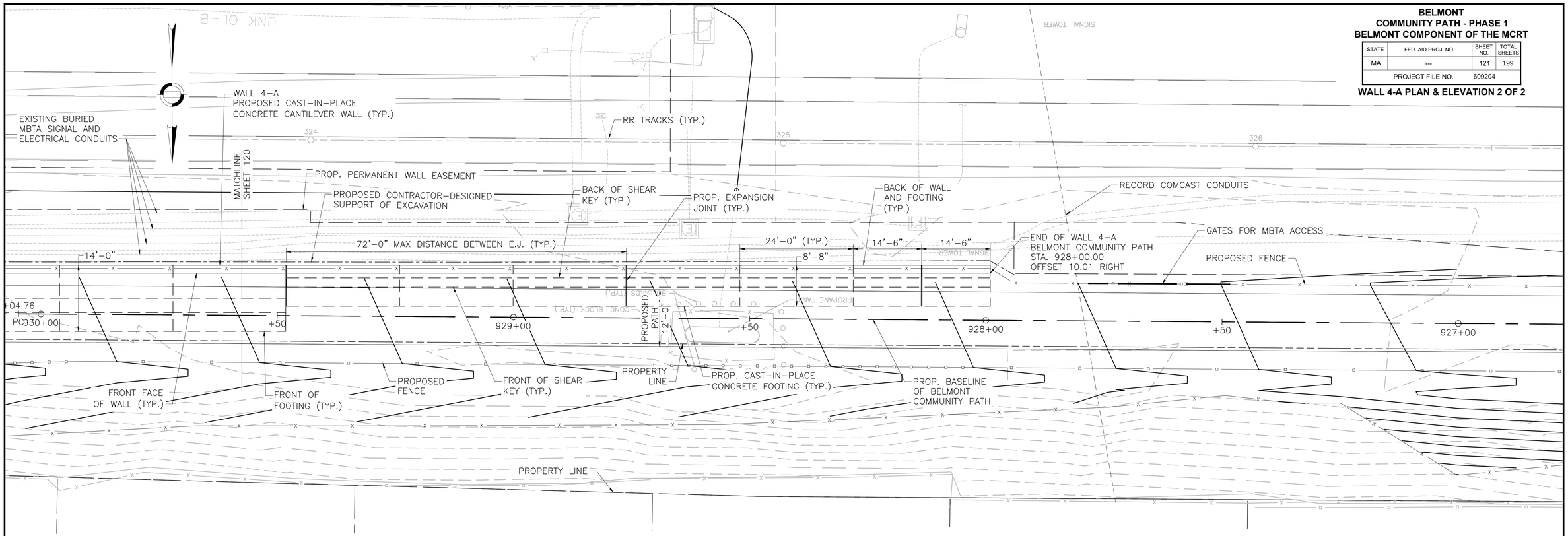
0 10 20 30 40

SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

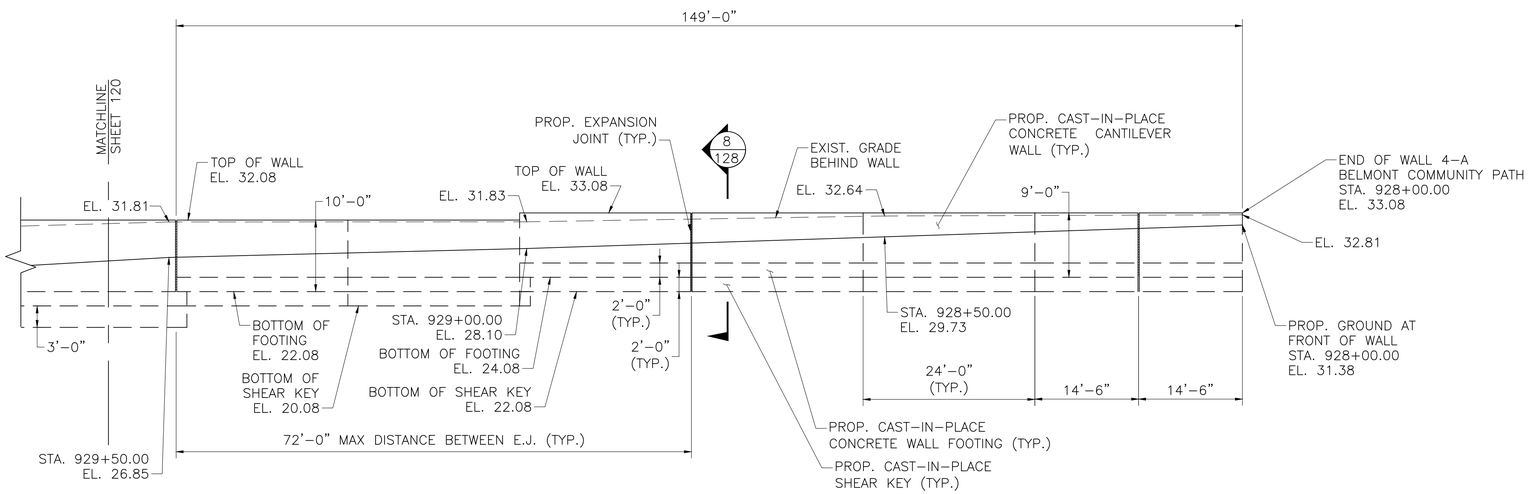
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	121	199
PROJECT FILE NO.	609204		

WALL 4-A PLAN & ELEVATION 2 OF 2



PLAN VIEW – WALL 4–A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4–A

SCALE: 1" = 10'

WALL 4–A – CAST–IN–PLACE CONCRETE CANTILEVER WALL

0 10 20 30 40

SCALE: 1" = 10'

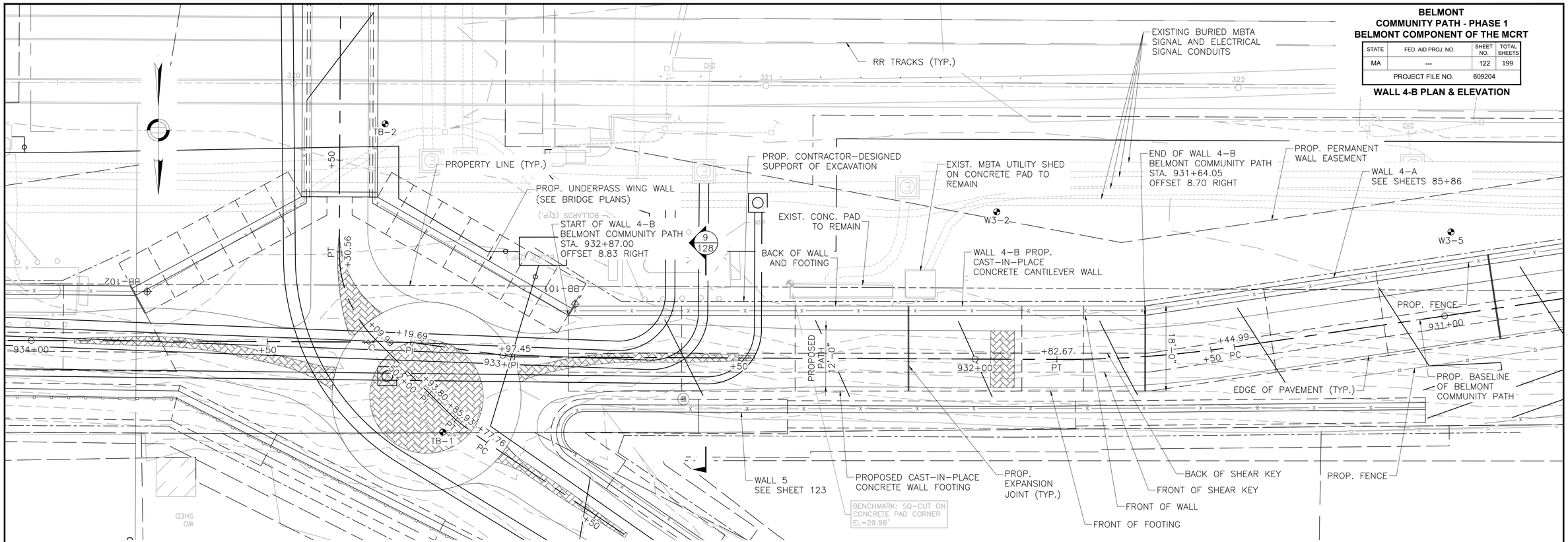
609204_BRI(P&E).DWG Plotted on 17-Dec-2025 4:42 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	122	199
PROJECT FILE NO.		609204	

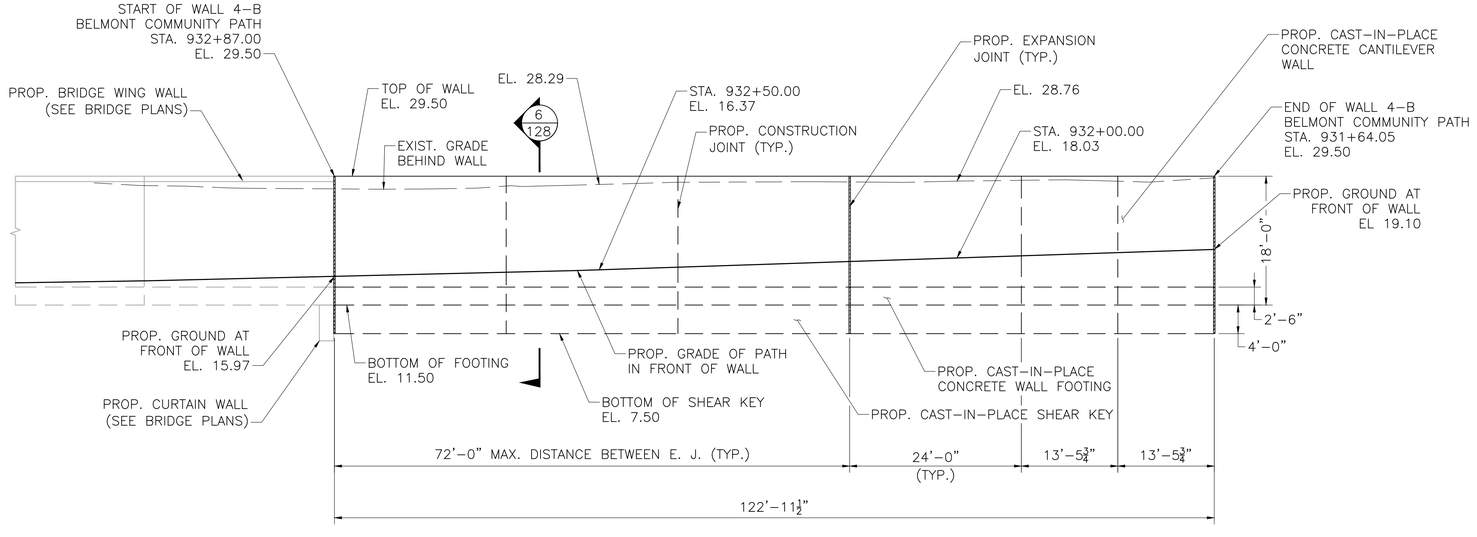
WALL 4-B PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 17-Dec-2025 4:42 PM



PLAN VIEW – WALL 4-B

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-B

SCALE: 1" = 10'

WALL 4-B – CAST-IN-PLACE CONCRETE CANTILEVER WALL WITH SHEAR KEY

0 10 20 30 40

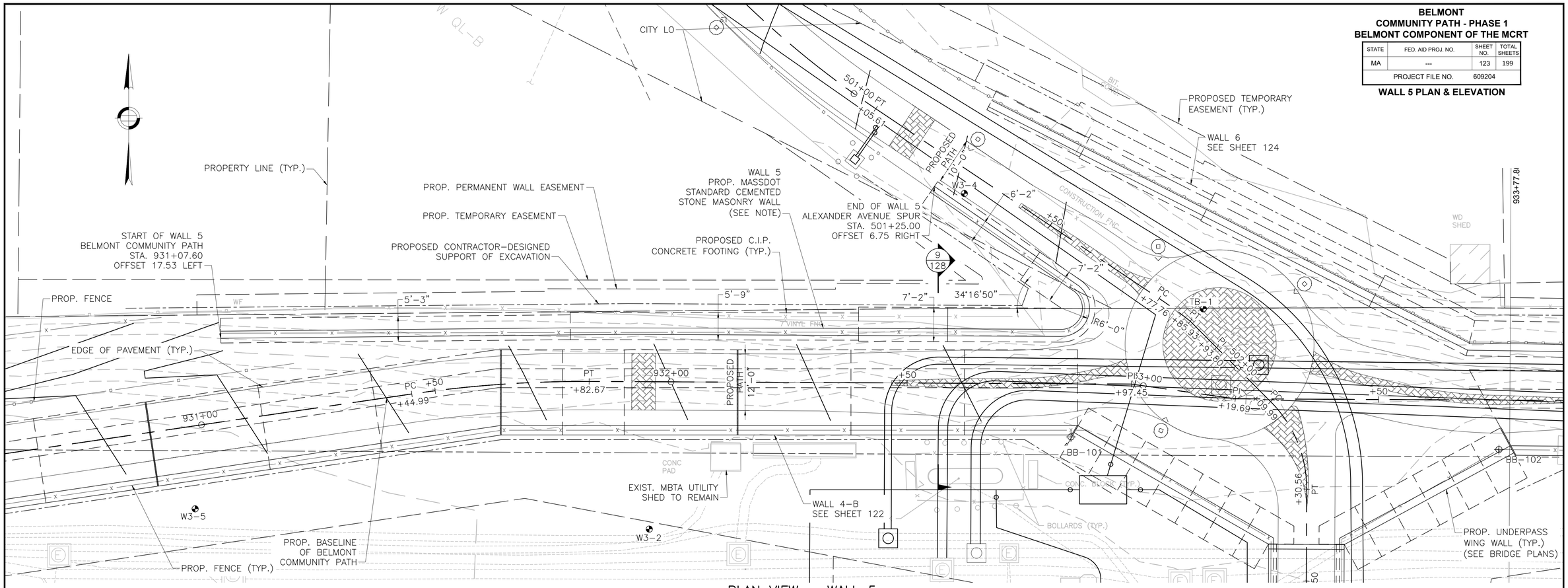
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	123	199
PROJECT FILE NO.	609204		

WALL 5 PLAN & ELEVATION

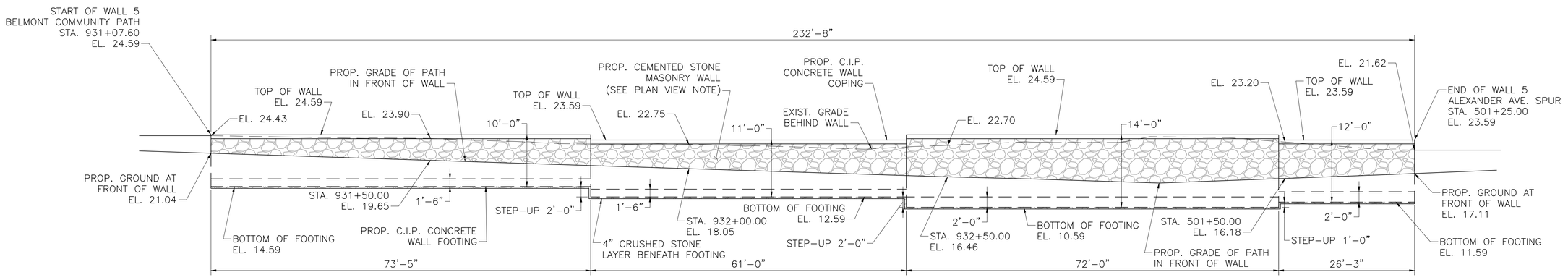
609204_BRI(P&E).DWG Plotted on 17-Dec-2025 4:42 PM



PLAN VIEW – WALL 5

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD 685.0.1 FOR ADDITIONAL DETAILS AND DIMENSIONS



ELEVATION VIEW – WALL 5

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

0 10 20 30 40

SCALE: 1" = 10'

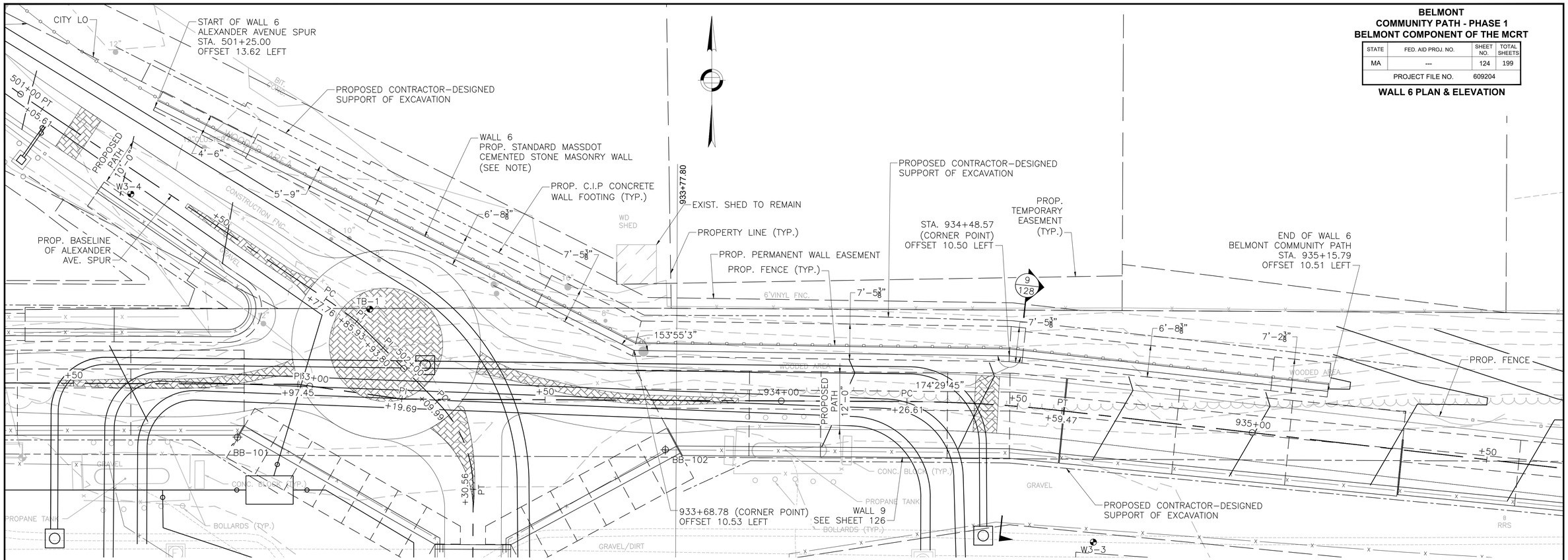
WALL 5 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	124	199
PROJECT FILE NO.	609204		

WALL 6 PLAN & ELEVATION

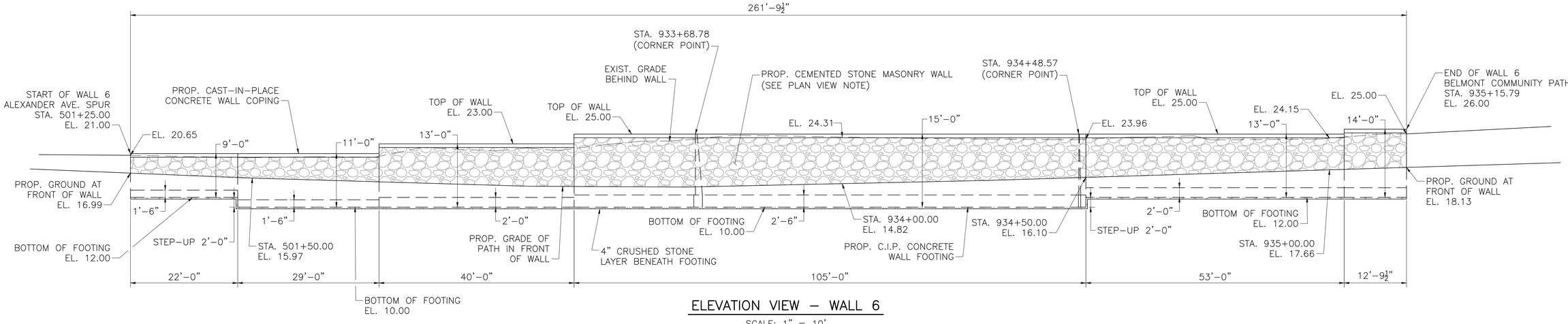
609204_BRI(P&E).DWG Plotted on 17-Dec-2025 4:43 PM



PLAN VIEW – WALL 6

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD 685.0.1 FOR ADDITIONAL DETAILS AND DIMENSIONS



ELEVATION VIEW – WALL 6

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

0 10 20 30 40

SCALE: 1" = 10'

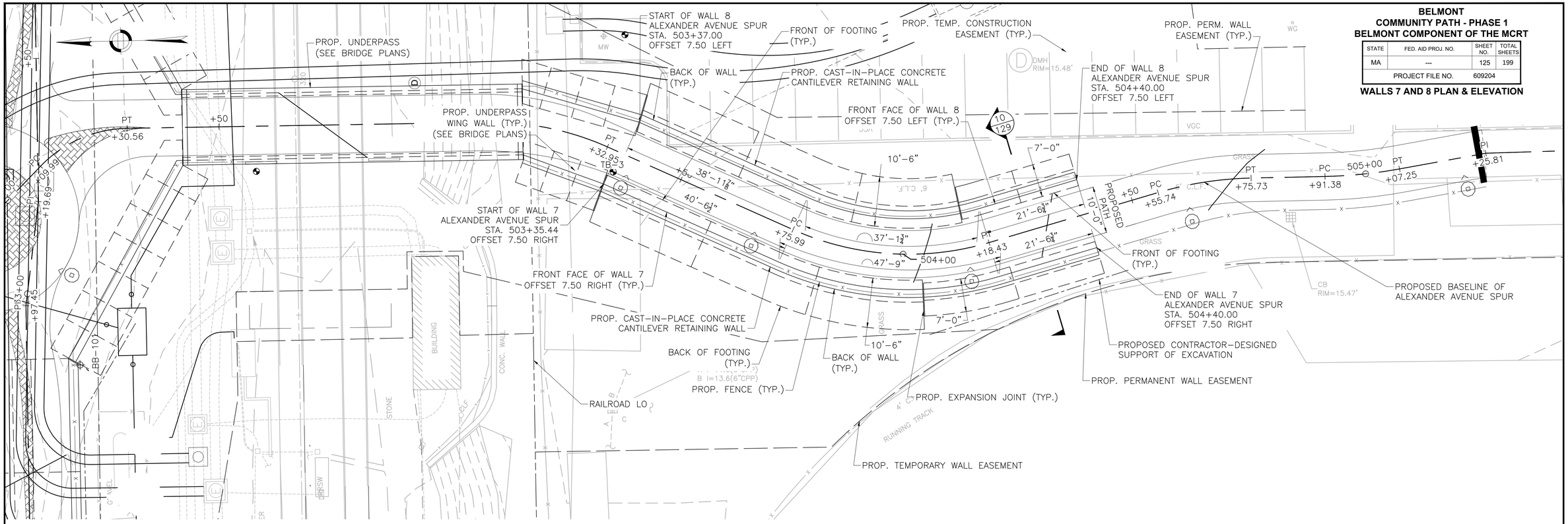
WALL 6 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	125	199
PROJECT FILE NO.	609204		

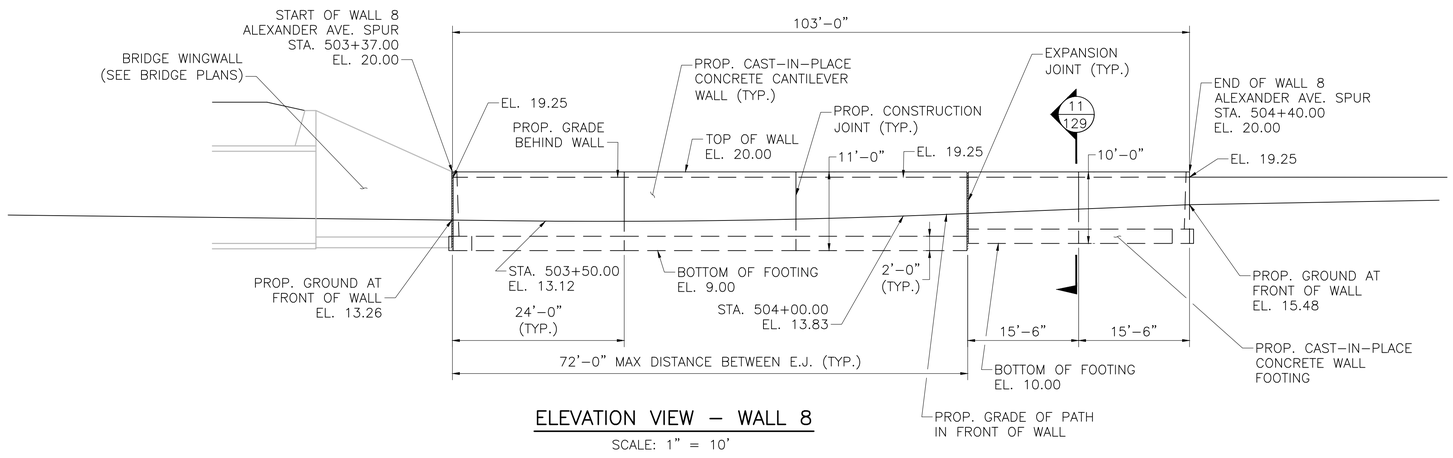
WALLS 7 AND 8 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 17-Dec-2025 4:43 PM



PLAN VIEW – WALLS 7 & 8

SCALE: 1" = 10'



ELEVATION VIEW – WALL 8

SCALE: 1" = 10'

NOTE: ELEVATION OF WALL 7 IS NOT SHOWN, BUT IS SIMILAR TO WALL 8

0 10 20 30 40

SCALE: 1" = 10'

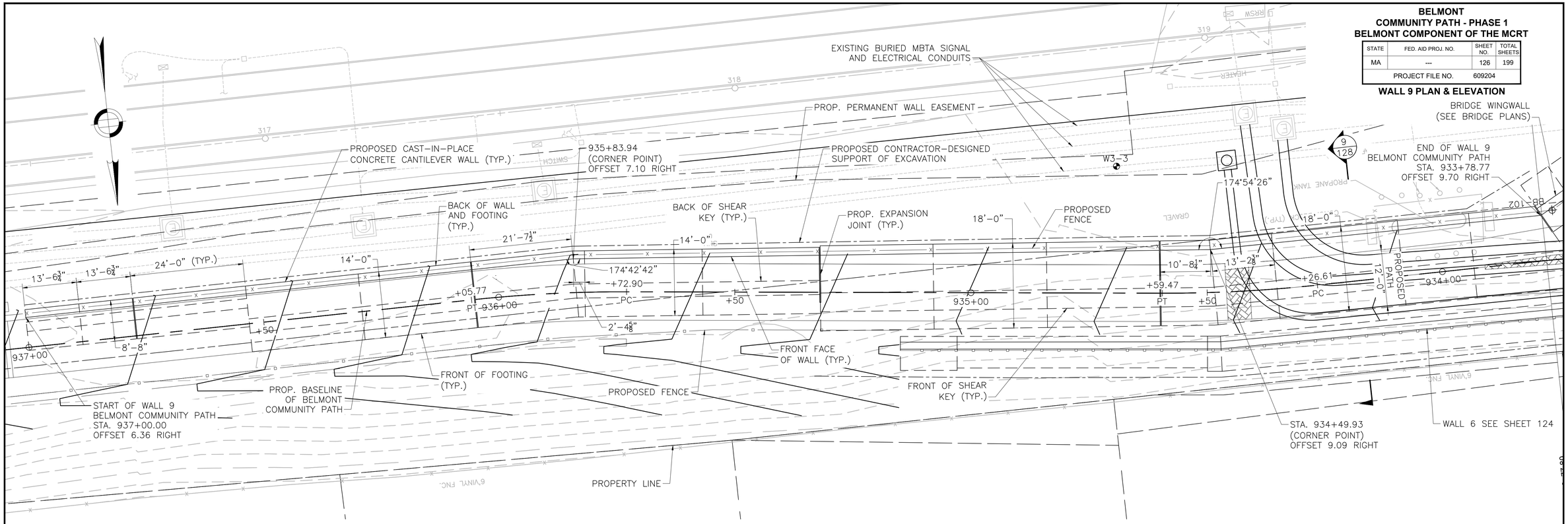
WALLS 7 & 8 – CAST-IN-PLACE CONCRETE CANTILEVER WALLS

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	126	199
PROJECT FILE NO.	609204		

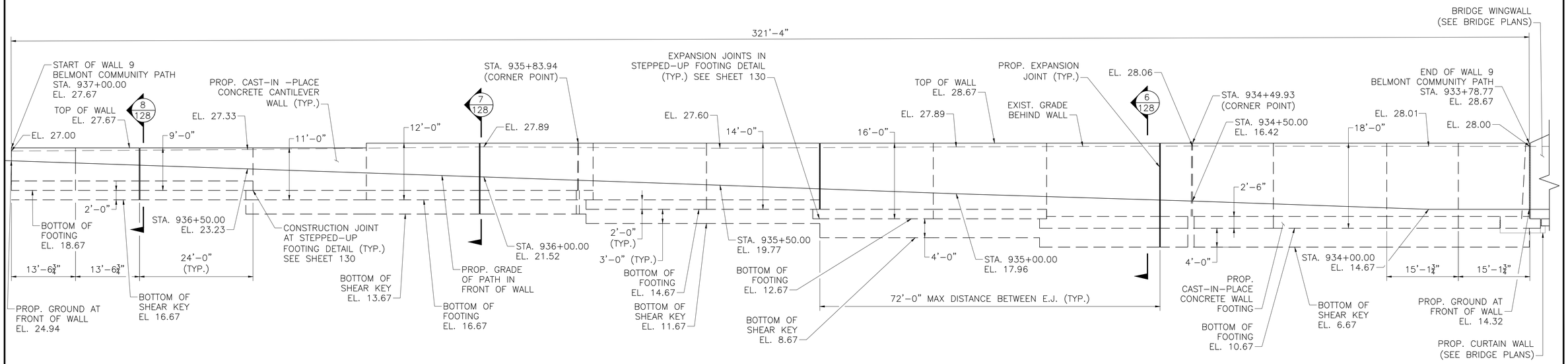
WALL 9 PLAN & ELEVATION

609204_BRI(P&E).DWG Plotted on 17-Dec-2025 4:43 PM



PLAN VIEW – WALL 9

SCALE: 1" = 10'



ELEVATION VIEW – WALL 9

SCALE: 1" = 10'

0 10 20 30 40

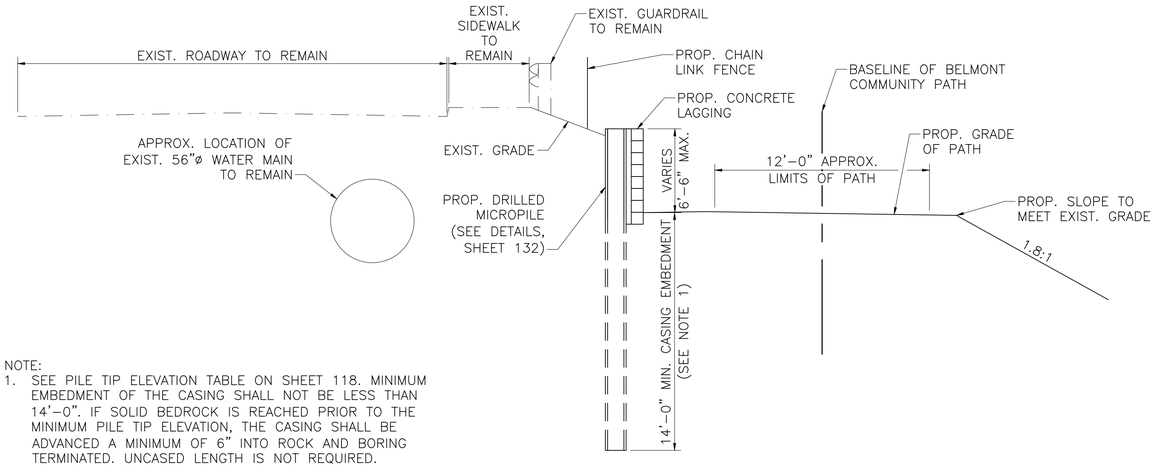
SCALE: 1" = 10'

WALL 9 – CAST-IN-PLACE CONCRETE CANTILEVER WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

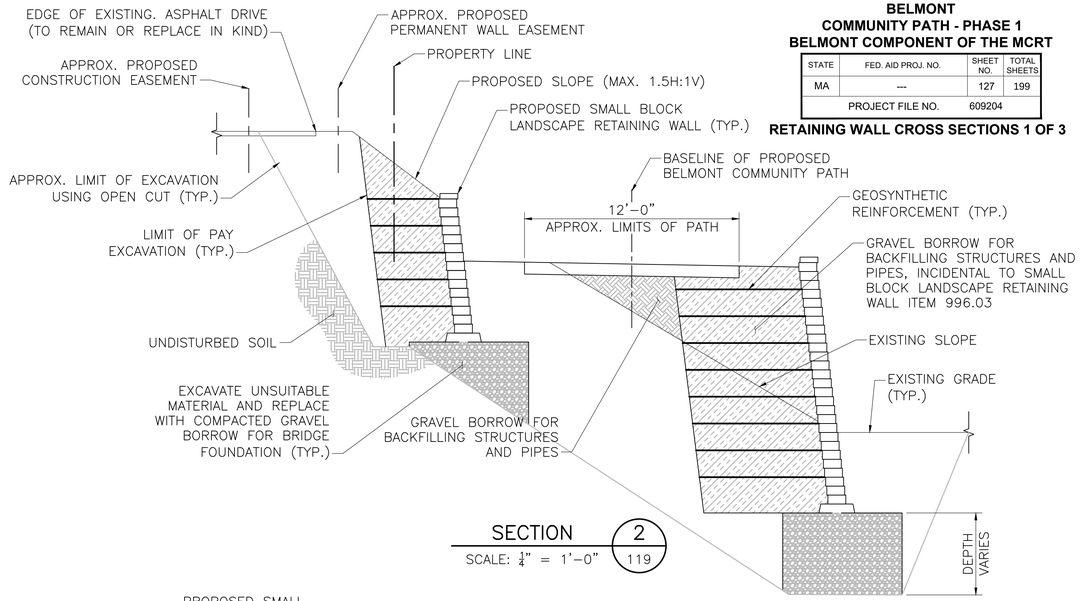
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	127	199
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 1 OF 3



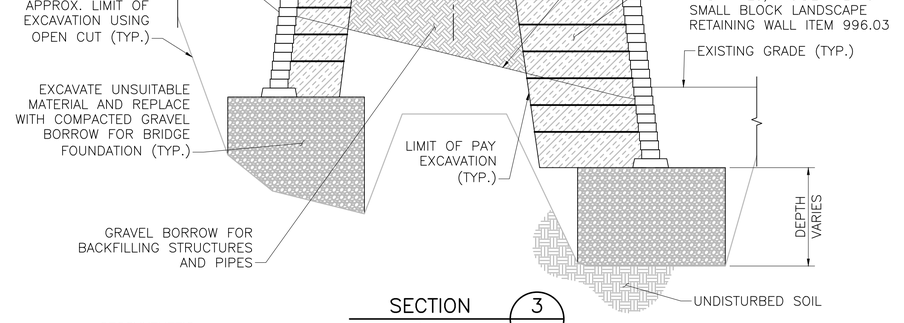
NOTE:
1. SEE PILE TIP ELEVATION TABLE ON SHEET 118. MINIMUM EMBEDMENT OF THE CASING SHALL NOT BE LESS THAN 14'-0". IF SOLID BEDROCK IS REACHED PRIOR TO THE MINIMUM PILE TIP ELEVATION, THE CASING SHALL BE ADVANCED A MINIMUM OF 6" INTO ROCK AND BORING TERMINATED. UNCASED LENGTH IS NOT REQUIRED.
2. THREADED CASING JOINTS ARE NOT ALLOWED. ALL PILE CASING JOINTS, IF NEEDED, SHALL BE FULL PENETRATION WELDS AROUND THE ENTIRE CIRCUMFERENCE OF THE PILE.

SECTION 1 — SCALE: 1/4" = 1'-0" — 118



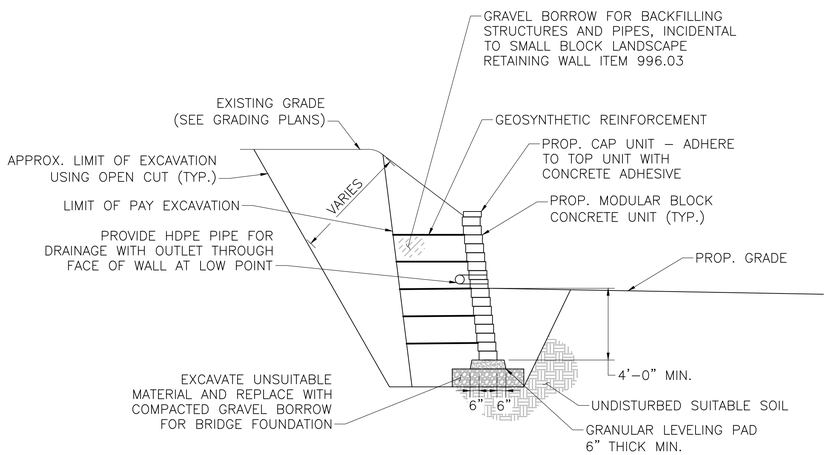
SECTION 2 — SCALE: 1/4" = 1'-0" — 119

NOTES:
1. WIDTH OF GRAVEL BORROW FOR BRIDGE FOUNDATION BEYOND LEVELING PAD (BOTH SIDES) IS EQUAL TO DEPTH/TAN(ø). SEE SECTION 4 FOR REPRESENTATIVE DEPICTION OF THESE ANGLES.
   ø= 45° FOR DEPTH OF 5'-0" OR LESS
   ø= 60° FOR DEPTH OVER 5'-0"
2. ALL EXCAVATION FOR SMALL BLOCK LANDSCAPE RETAINING WALLS WITH THE EXCEPTION OF EXCAVATION OF UNSUITABLE MATERIAL IS INCIDENTAL TO ITEM 996.03 SMALL BLOCK LANDSCAPE RETAINING WALLS. EXCAVATION OF UNSUITABLE MATERIAL WILL BE PAID UNDER ITEM 140. BRIDGE EXCAVATION.



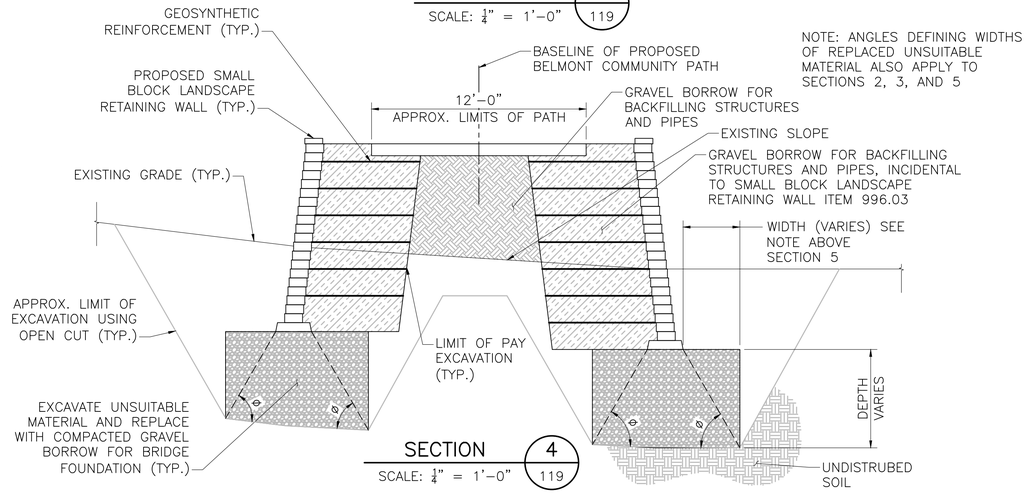
SECTION 3 — SCALE: 1/4" = 1'-0" — 119

SMALL BLOCK LANDSCAPE RETAINING WALL NOTES:
1. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 2.89 KSF.
2. FACTORED BEARING RESISTANCE = 11.3 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 17.4 KSF AND A RESISTANCE FACTOR OF 0.65.
3. CONTRACTOR TO PROVIDE FINAL DESIGN OF THE SMALL BLOCK WALL BASED ON SUBMITTED WALL MANUFACTURER DESIGN REQUIREMENTS. CONTRACTOR TO LAYOUT STEPS IN THE FOOTING AND TOP OF WALL BASED ON MANUFACTURER'S AVAILABLE BLOCK SIZES. WALL DESIGN SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS. WALL DESIGN AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGNER FOR REVIEW AND APPROVAL.
4. APPROXIMATE REINFORCEMENT LENGTH. FINAL LENGTH TO BE DESIGNED BY THE CONTRACTOR BASED ON WALL MANUFACTURER REQUIREMENTS AND SUBMITTED FOR REVIEW AND APPROVAL.
5. THE WALLS ARE DESIGNED FOR APPROPRIATE DEAD, LIVE, EARTH, AND SEISMIC LOADING PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, NINTH EDITION, 2020.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE SMALL BLOCK LANDSCAPE RETAINING WALL PASSES OVERALL AND COMPOUND STABILITY CHECKS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TYPICAL SMALL BLOCK LANDSCAPE RETAINING WALL DETAILS

SECTION 5 — SCALE: 1/4" = 1'-0" — 119



NOTE: ANGLES DEFINING WIDTHS OF REPLACED UNSUITABLE MATERIAL ALSO APPLY TO SECTIONS 2, 3, AND 5

SECTION 4 — SCALE: 1/4" = 1'-0" — 119

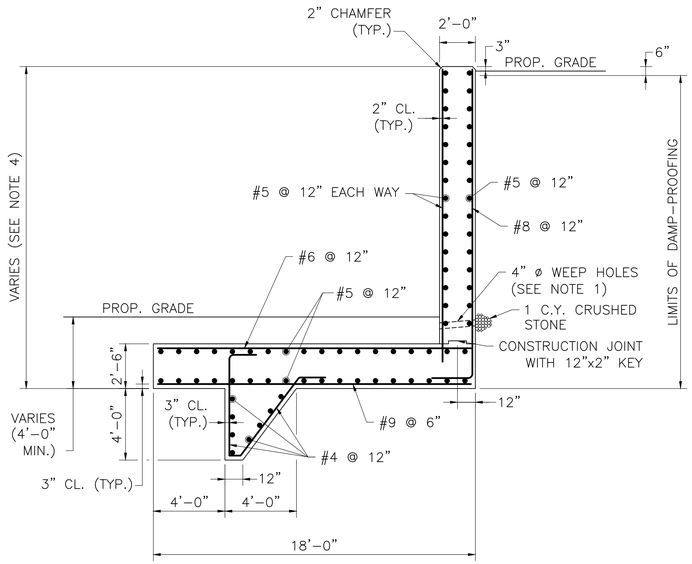
609204_BR(XSEC).DWG Plotted on 17-Dec-2025 4:43 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	128	199
PROJECT FILE NO.	609204		

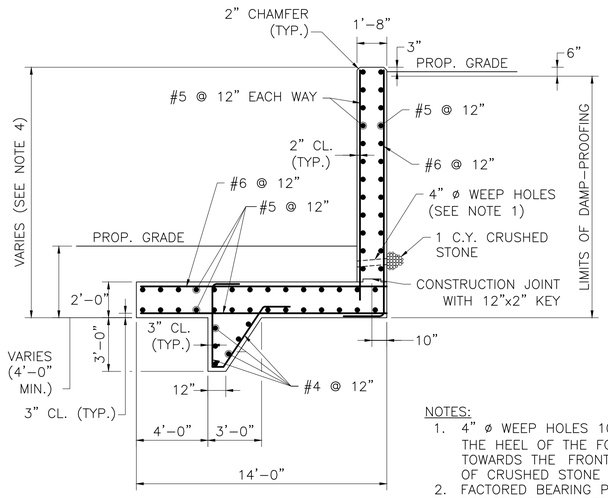
RETAINING WALL CROSS SECTIONS 2 OF 3

609204_BR(XSEC).DWG Plotted on 17-Dec-2025 4:43 PM



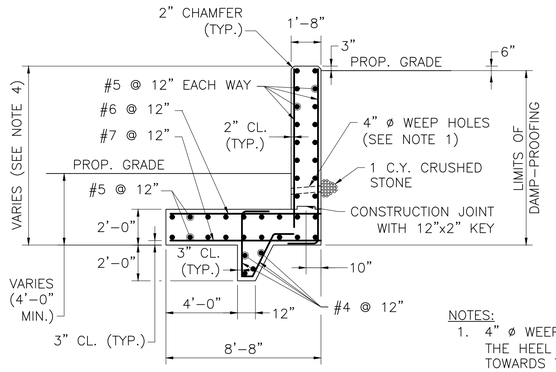
SECTION 6 — SCALE: 1/4" = 1'-0" — 120 — 122,126

NOTES:
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE BACK OF THE TOP OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 1.49 KSF.
3. FACTORED BEARING RESISTANCE = 4.4 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.0 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 6 APPLICABLE FOR CANTILEVER WALLS WITH A TOE-ONLY FOOTING MEASURING GREATER THAN 14'-0" TO 18'-0" TOTAL HEIGHT.



SECTION 7 — SCALE: 1/4" = 1'-0" — 120 — 126

NOTES:
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 1.74 KSF.
3. FACTORED BEARING RESISTANCE = 4.40 KSF FOR THE STRENGTH LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.0 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 7 APPLICABLE FOR CANTILEVER WALLS WITH A TOE-ONLY FOOTING MEASURING GREATER THAN 10'-0" TO 14'-0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GZA GEOTECH REPORT DATED 8/29/2025 (PG. 20).

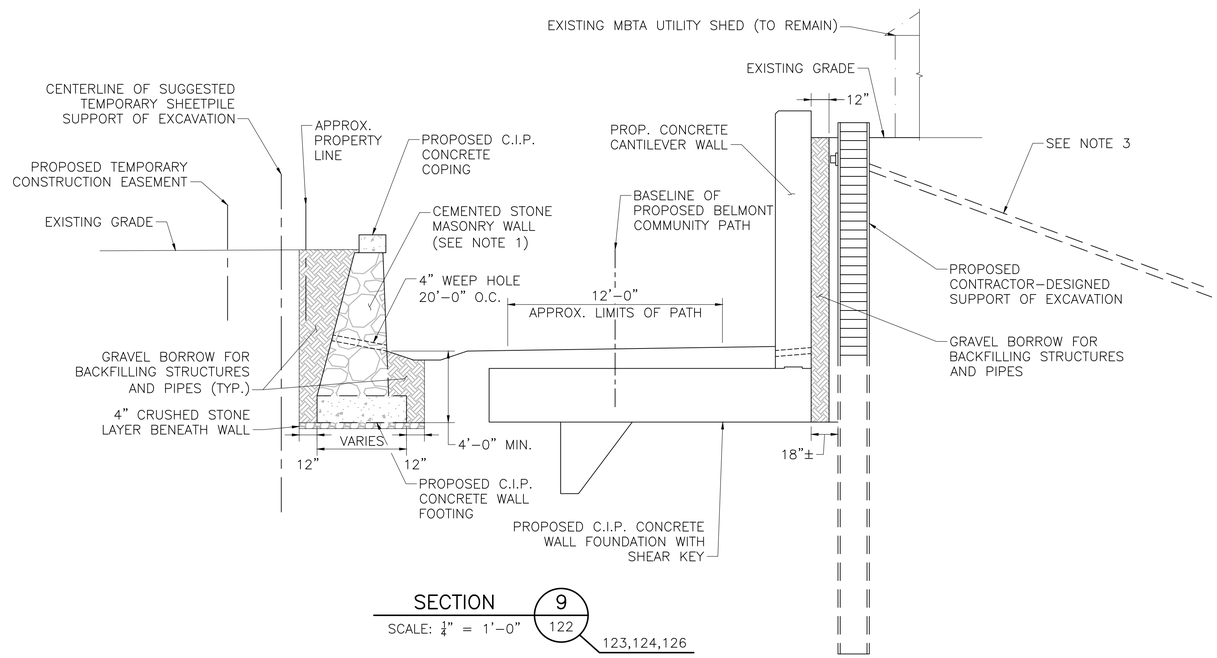


SECTION 8 — SCALE: 1/4" = 1'-0" — 121 — 126

NOTES:
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 1.53 KSF.
3. FACTORED BEARING RESISTANCE = 4.40 KSF FOR THE STRENGTH LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.0 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 8 APPLICABLE FOR CANTILEVER WALLS WITH A TOE-ONLY FOOTING MEASURING GREATER THAN 5'-0" TO 10'-0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GZA GEOTECH REPORT DATED 8/29/2025 (PG. 20).

CEMENTED STONE MASONRY WALLS NOTES:

1. 4" ø WEEP HOLES 20'-0" O.C.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 3.52 KSF.
   - EXTREME EVENT I LIMIT STATE
     FACTORED BEARING PRESSURE = 4.92 KSF.
2. FACTORED BEARING RESISTANCE = 4.40 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.0 KSF AND A RESISTANCE FACTOR OF 0.55. FACTORED BEARING RESISTANCE = 6.40 KSF FOR THE EXTREME EVENT I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.0 KSF AND A RESISTANCE FACTOR OF 0.8.
3. CONTRACTOR TO PROVIDE FINAL DESIGN OF THE CEMENTED STONE MASONRY GRAVITY WALLS. WALL DESIGN SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS. WALL DESIGN AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGNER FOR REVIEW AND APPROVAL.
4. ALL CAST-IN-PLACE PILE CAPS AND FOOTINGS SHALL BE 4000 PSI, 1½ IN., 565 CEMENT CONCRETE.



SECTION 9 — SCALE: 1/4" = 1'-0" — 122 — 123,124,126

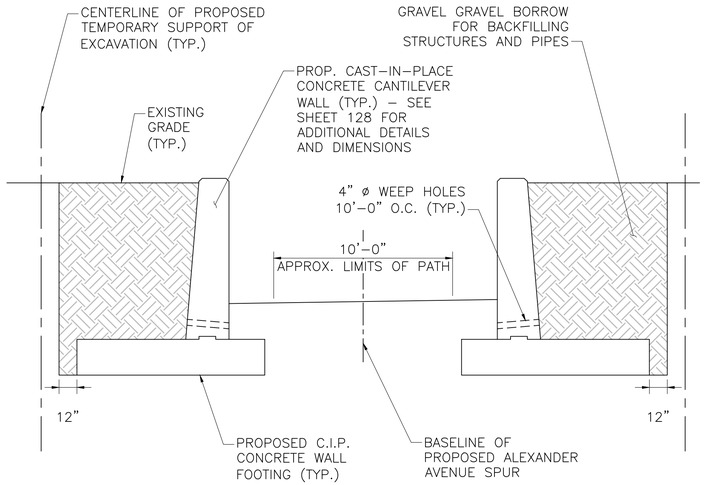
NOTES:
1. SEE MASSDOT CONSTRUCTION STANDARD 685.0.1 FOR ADDITIONAL DETAILS AND DIMENSIONS.
2. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL MASONRY WALL FOOTINGS, PER GZA GEOTECH REPORT DATED 8/29/2025 (PG. 20).
3. TIE BACKS MAY BE USED FOR TEMPORARY SUPPORT OF EXCAVATION BUT SHALL NOT BE USED FOR SUPPORT OF A PERMANENT WALL. TIE BACKS MUST BE UNFASTENED OR CUT AFTER COMPLETION OF CONSTRUCTION.
4. EXCAVATION FOR CEMENTED STONE MASONRY WALLS SHALL BE PART OF ITEM 141. CLASS A TRENCH EXCAVATION. EXCAVATION FOR CAST-IN-PLACE CONCRETE WALLS AND EXCAVATION OF UNSUITABLE SOILS RELATED TO WALL STRUCTURES SHALL BE PART OF ITEM 140. BRIDGE EXCAVATION.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

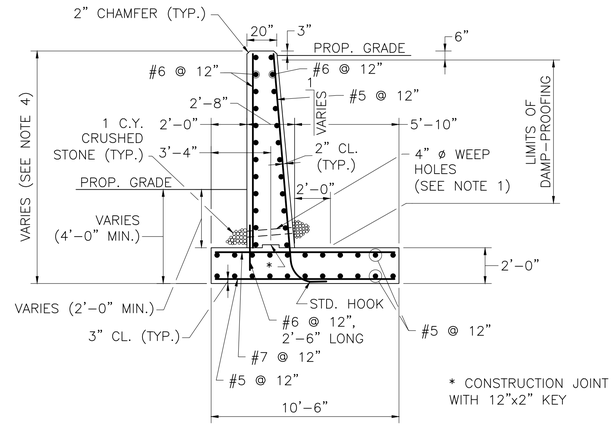
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	129	199
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 3 OF 3

609204_BR(XSEC).DWG Plotted on 17-Dec-2025 4:43 PM



SECTION 10 — SCALE: 1/4" = 1'-0" — 125



SECTION 11 — SCALE: 1/4" = 1'-0" — 125

NOTES:

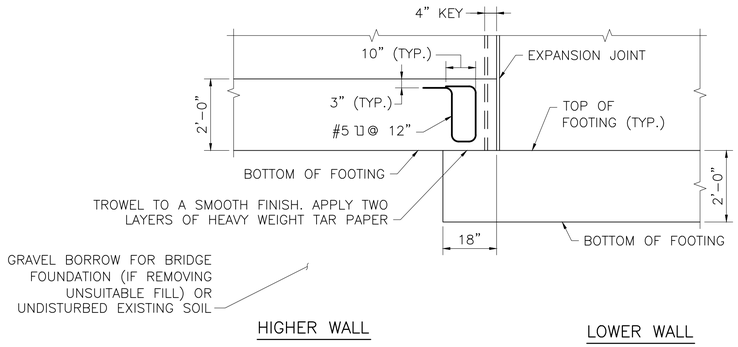
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 2.99 KSF.
3. FACTORED BEARING RESISTANCE = 4.40 KSF FOR THE STRENGTH I LIMIT STATE AND IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE OF 8.00 KSF AND A RESISTANCE FACTOR OF 0.55.
4. SECTION 11 APPLICABLE FOR CANTILEVER WALLS MEASURING GREATER THAN 10'-0" TO 14'-0" TOTAL HEIGHT.
5. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT (PG. 13).
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE (UNDER GRAVEL BORROW FOR BRIDGE FOUNDATION IF NECESSARY) SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS, PER GZA GEOTECH REPORT DATED 8/29/2025 (PG. 20).

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	130	199
PROJECT FILE NO.	609204		

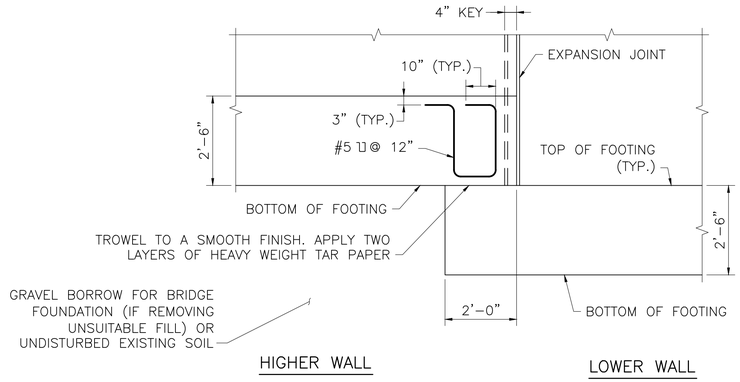
STEPPED-UP FOOTING DETAILS

609204_BR(DETAILS).DWG Plotted on 17-Dec-2025 4:44 PM



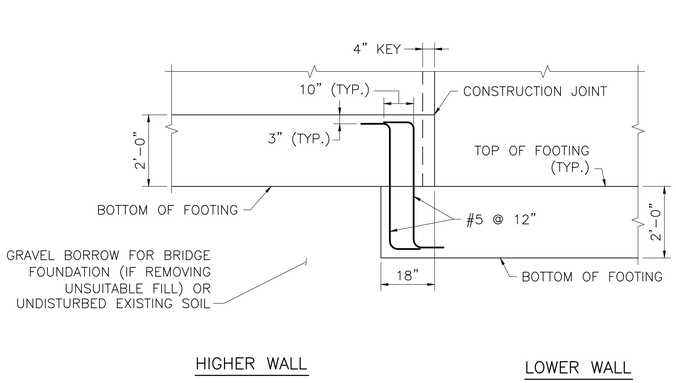
EXPANSION JOINT AT STEPPED–UP FOOTING DETAIL – WALLS 4–A, 7, 8, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



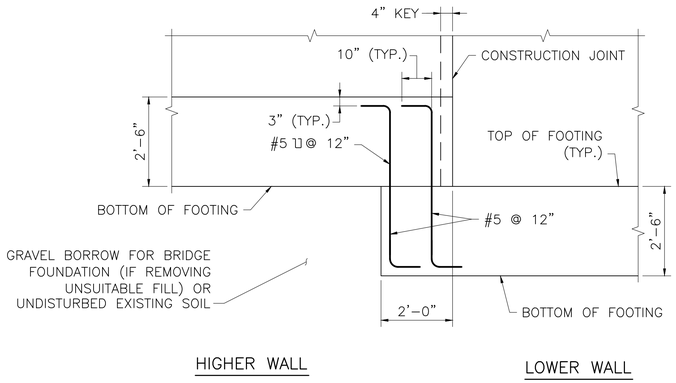
EXPANSION JOINT AT STEPPED–UP FOOTING DETAIL – WALL 4–A, 4–B, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



CONSTRUCTION JOINT AT STEPPED–UP FOOTING DETAIL – WALLS 4–A, 7, 8, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



CONSTRUCTION JOINT AT STEPPED–UP FOOTING DETAIL – WALL 4–A, 4–B AND 9

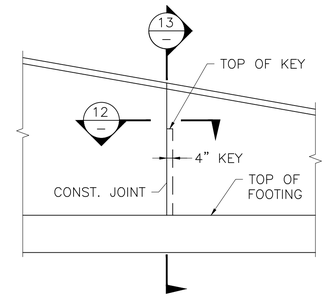
SCALE: $\frac{1}{2}$" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

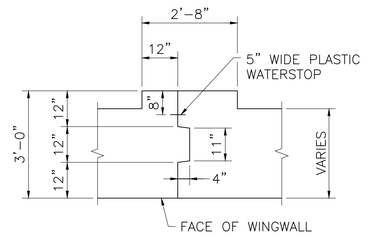
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	131	199
PROJECT FILE NO.	609204		

JOINT DETAILS

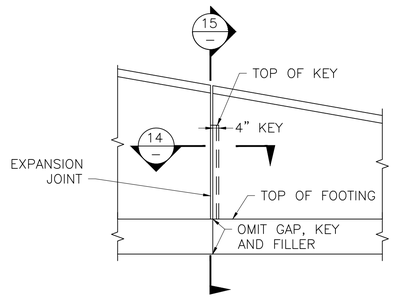
609204_BR(DETAILS).DWG Plotted on 17-Dec-2025 4:44 PM



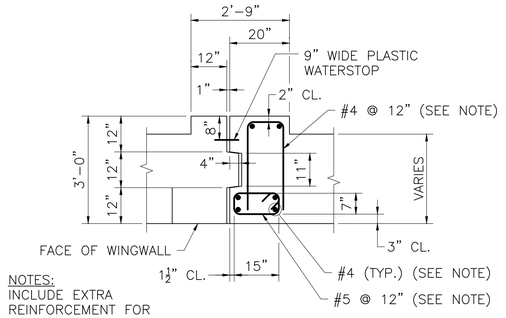
CONSTRUCTION JOINT DETAIL
SCALE: $\frac{1}{4}$" = 1'–0"



SECTION 12
SCALE: $\frac{1}{2}$" = 1'–0"

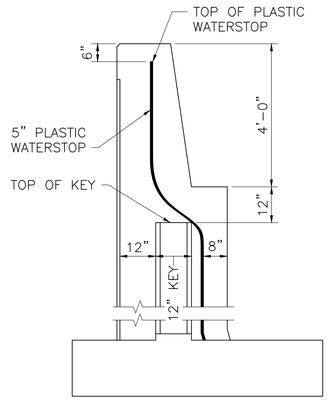


EXPANSION JOINT DETAIL
SCALE: $\frac{1}{4}$" = 1'–0"



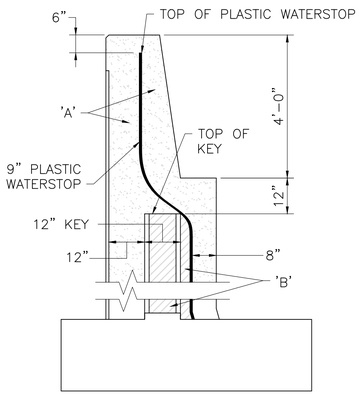
NOTES:
INCLUDE EXTRA REINFORCEMENT FOR WALLS 14'–0" OR HIGHER

SECTION 14
SCALE: $\frac{1}{2}$" = 1'–0"



SECTION 13
SCALE: $\frac{1}{2}$" = 1'–0"

NOTE: REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.



SECTION 15
SCALE: $\frac{1}{2}$" = 1'–0"

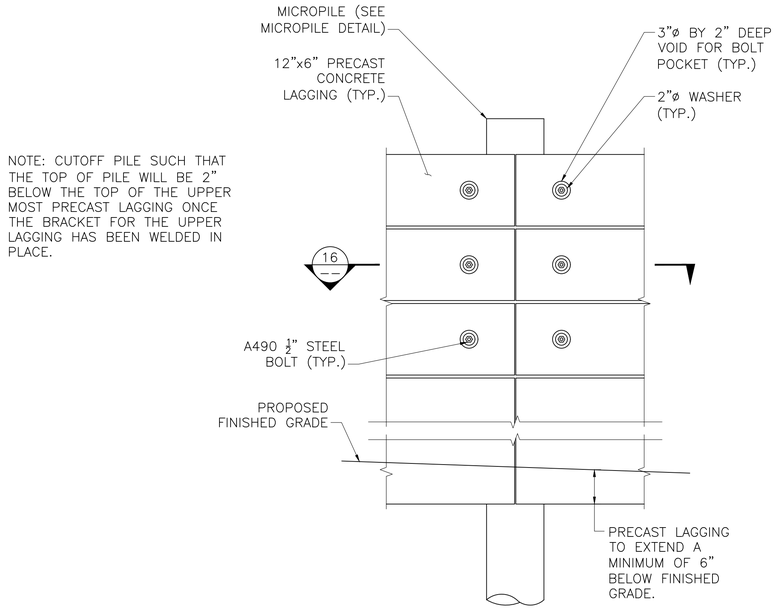
NOTES:
1. LONGITUDINAL REINFORCEMENT SHALL END 2" CLEAR OF EXPANSION JOINT.
2. 'A' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M9.14.0).
   'B' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M3.05.5).
3. FILLER MATERIAL SHALL BE FASTENED SECURELY TO ONE SIDE OF JOINT.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	132	199
PROJECT FILE NO.	609204		

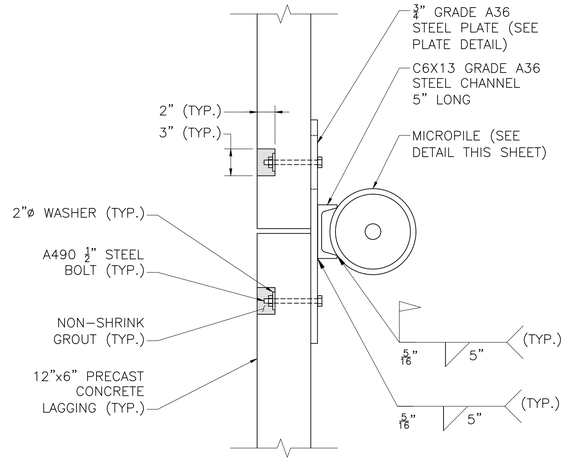
MICROPILE DETAILS

609204_BR(DETAILS).DWG Plotted on 17-Dec-2025 4:44 PM



MICROPILE LAGGING CONNECTION DETAIL

SCALE: 1" = 1'–0"



SECTION 16 / –

SCALE: 1 1/2" = 1'–0"

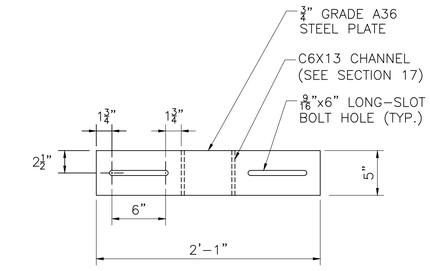
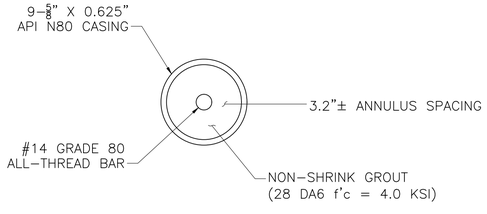


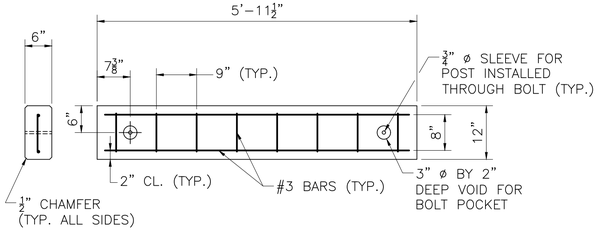
PLATE DETAIL

SCALE: 1 1/2" = 1'–0"



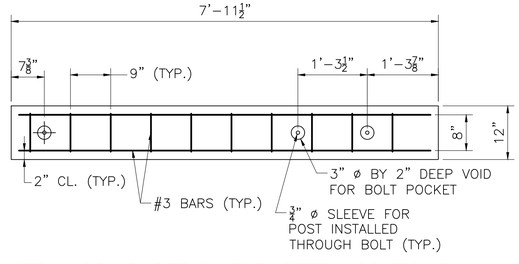
MICROPILE DETAIL

SCALE: 1 1/2" = 1'–0"



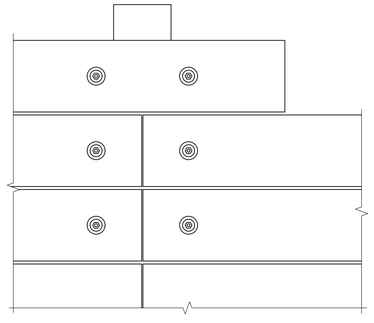
LAGGING REINFORCEMENT DETAIL

SCALE: 3/4" = 1'–0"



ALTERNATE LAGGING DETAIL FOR STEP LOCATIONS

SCALE: 3/4" = 1'–0"



NOTE: SIMILAR DETAIL TO BE USED FOR A STEP IN BOTTOM COURSE OF LAGGING

STEP IN WALL LAGGING

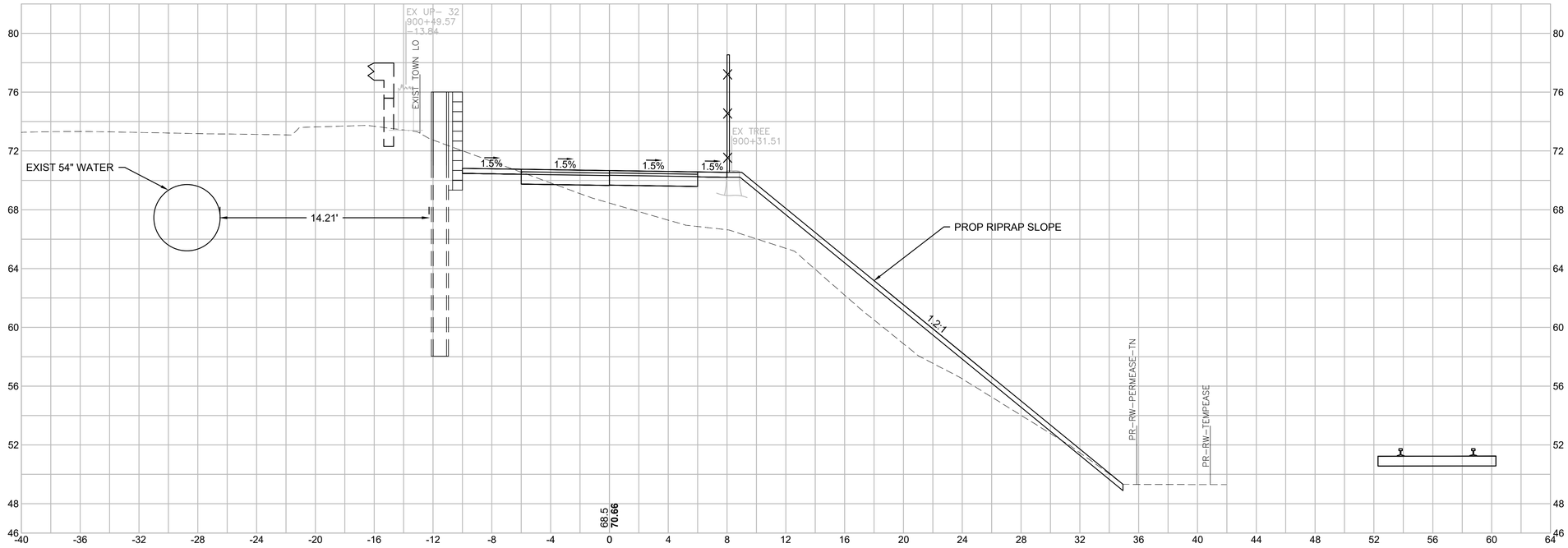
SCALE: 1" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	133	199
PROJECT FILE NO.	609204		

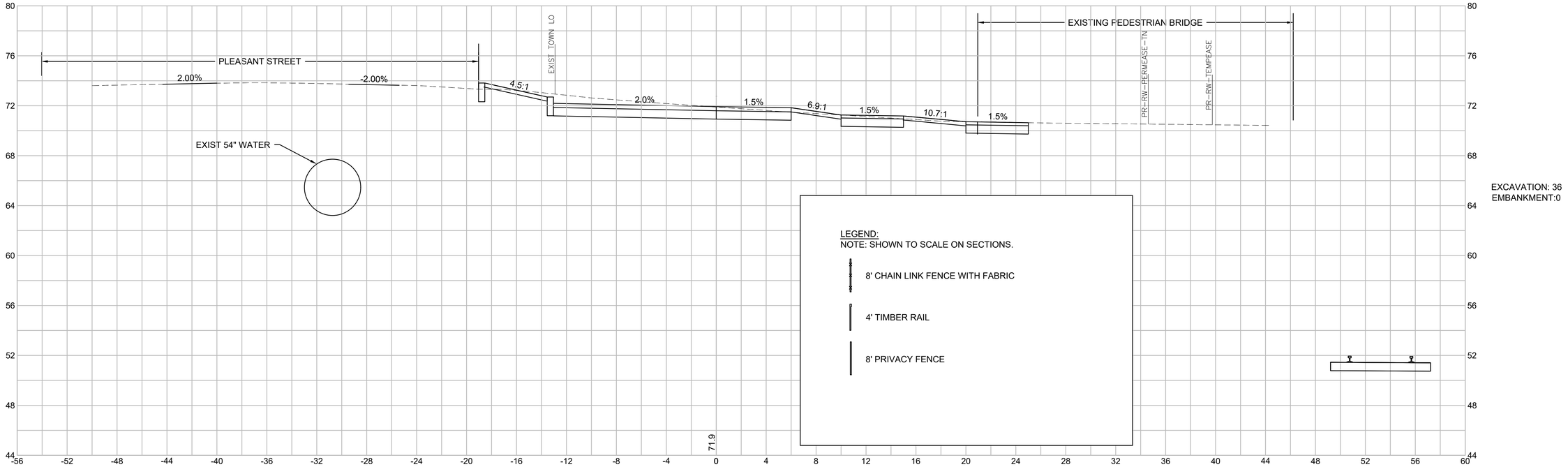
CROSS SECTIONS

900+50



EXCAVATION: 39
EMBANKMENT:27

900+00



LEGEND:
NOTE: SHOWN TO SCALE ON SECTIONS.

- 8' CHAIN LINK FENCE WITH FABRIC
- 4' TIMBER RAIL
- 8' PRIVACY FENCE

EXCAVATION: 36
EMBANKMENT:0

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

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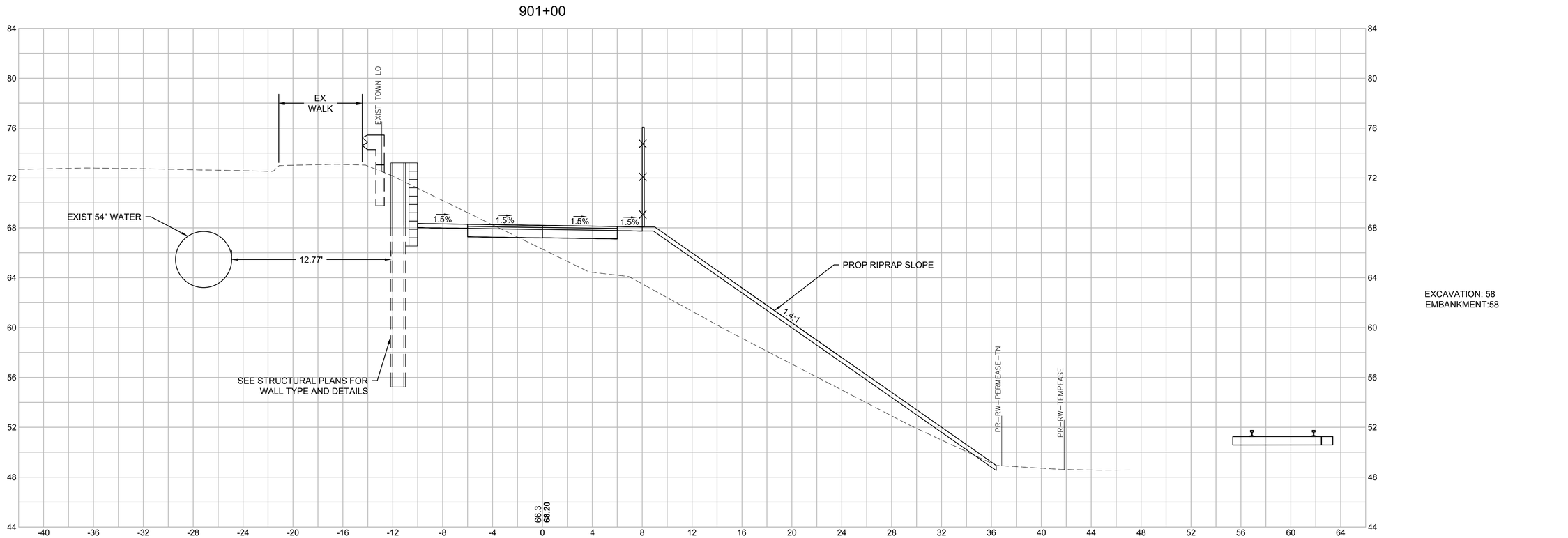
609204_HD(XSECT-REV).DWG Plotted on Dec-25 10:58 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	134	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



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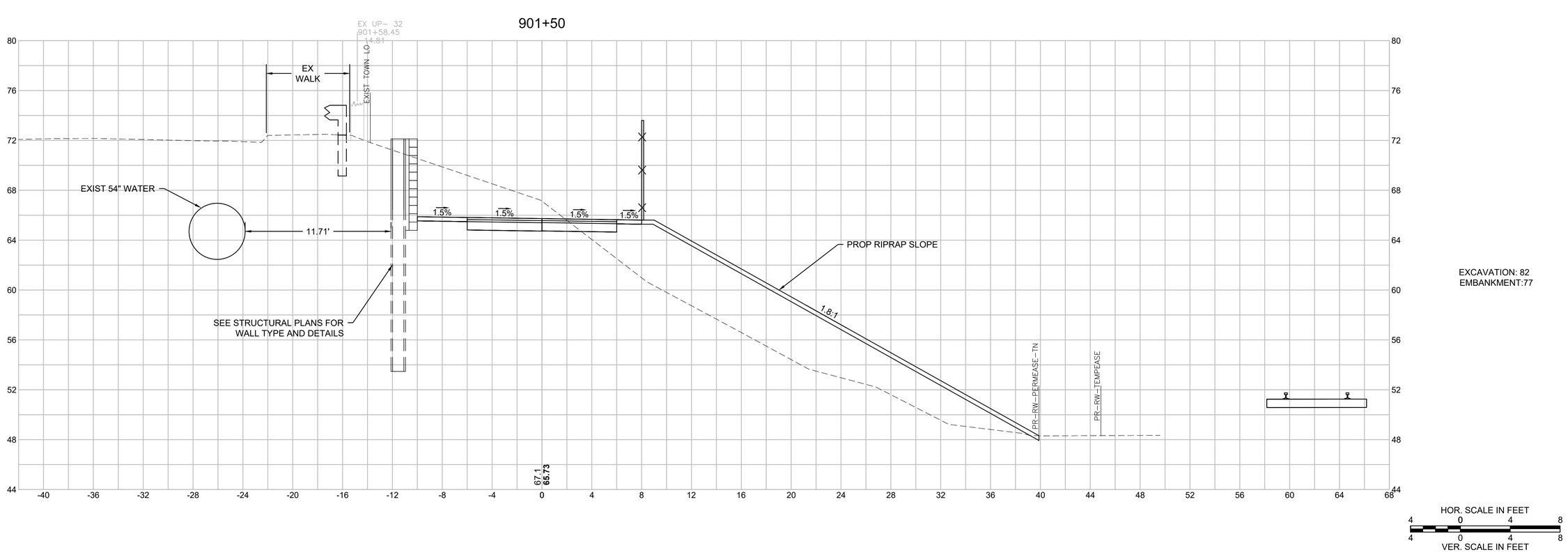
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	135	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:06 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:06 AM

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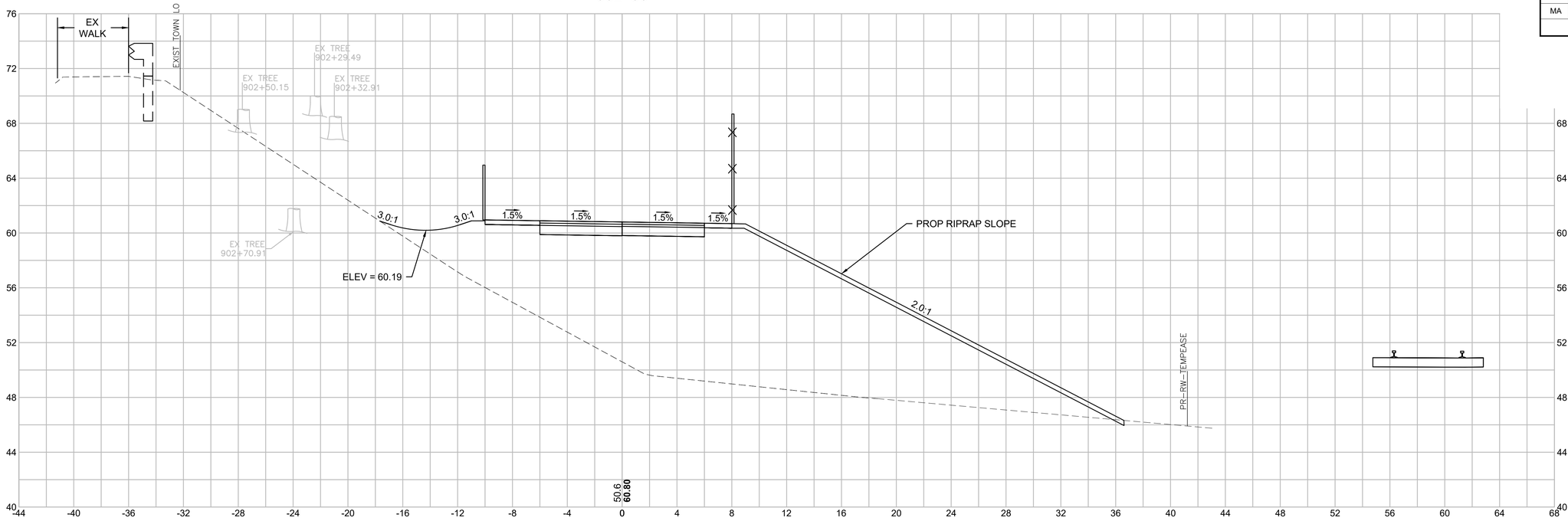
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	136	199
PROJECT FILE NO.	609204		

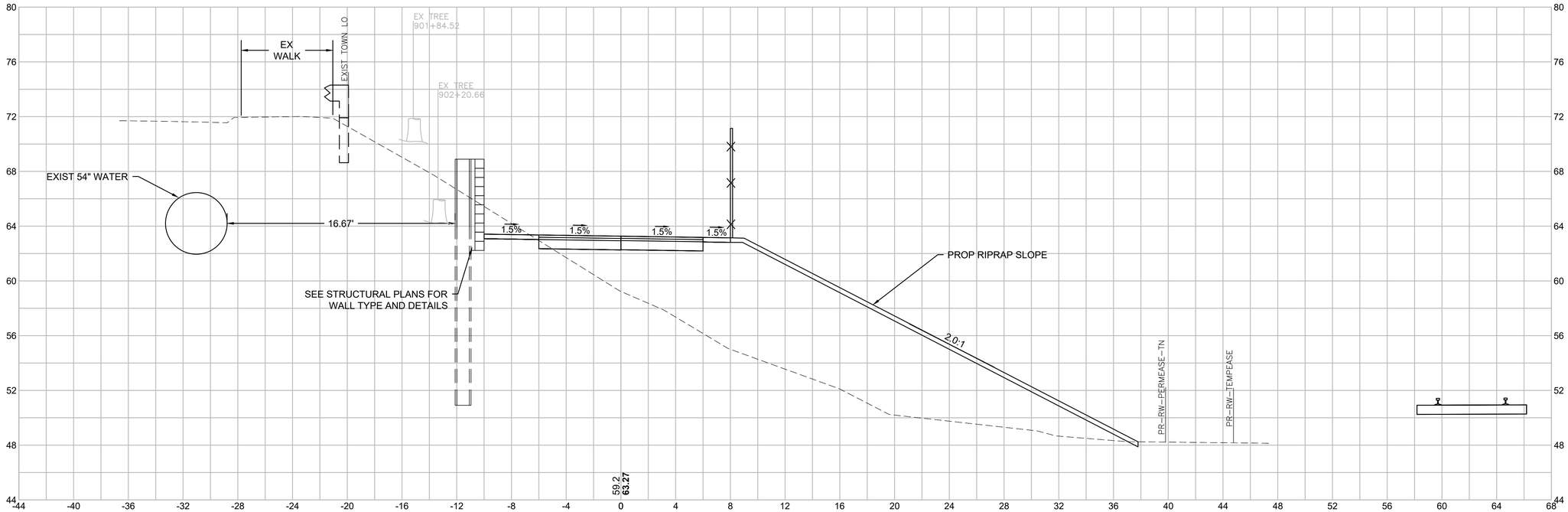
CROSS SECTIONS

902+50



EXCAVATION: #
EMBANKMENT:319

902+00



EXCAVATION: 30
EMBANKMENT:169

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:06 AM

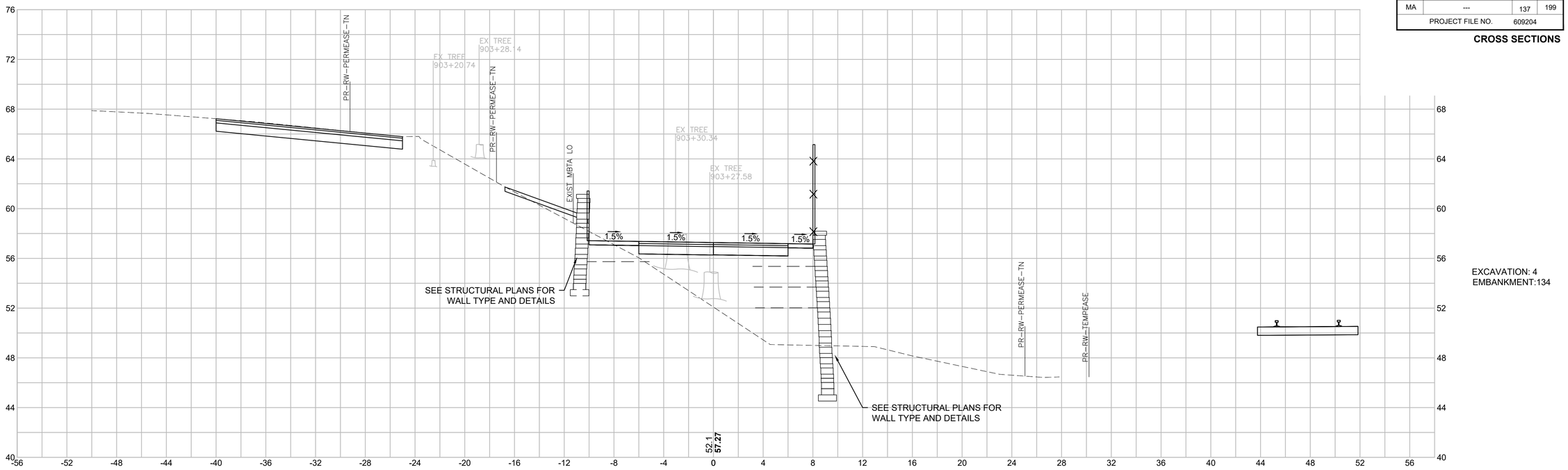
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:06 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	137	199
PROJECT FILE NO.	609204		

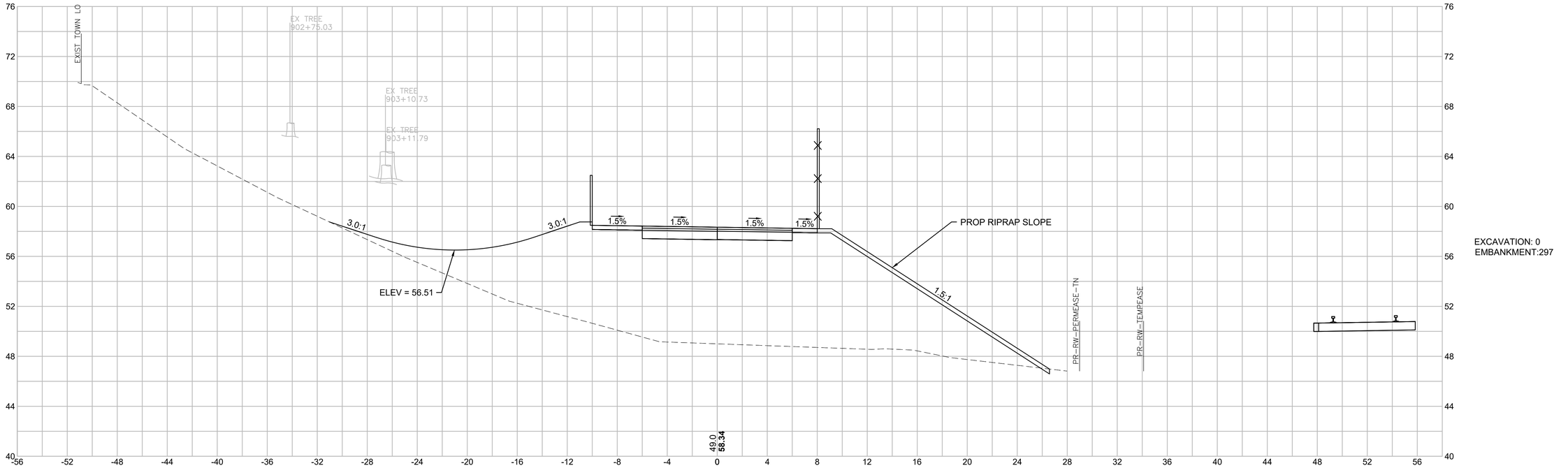
CROSS SECTIONS

903+25



EXCAVATION: 4
EMBANKMENT:134

903+00



EXCAVATION: 0
EMBANKMENT:297

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:07 AM

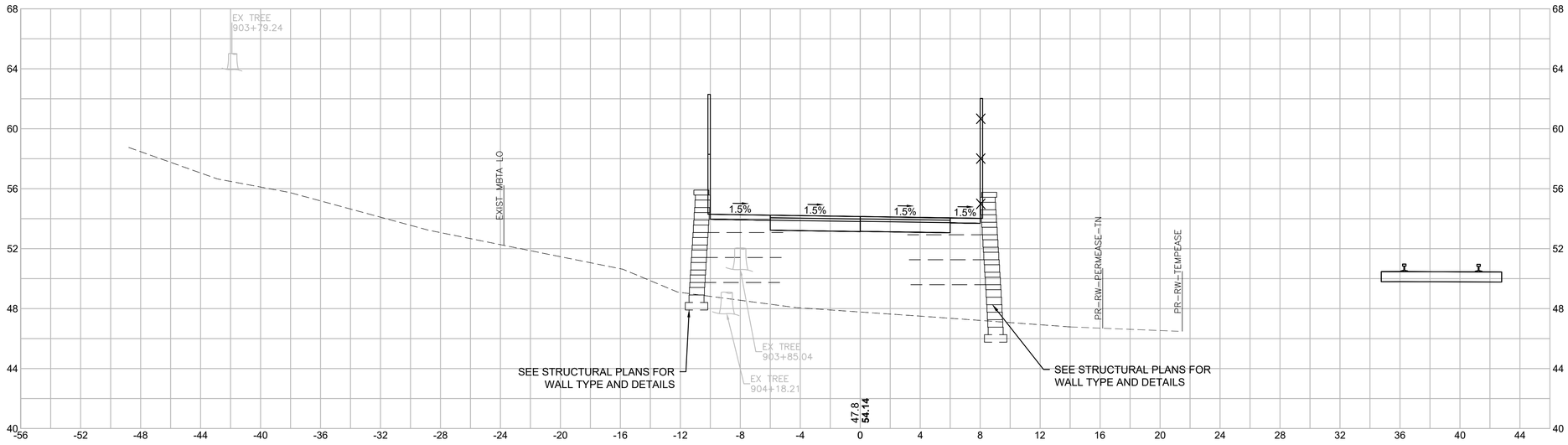
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:07 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	138	199
PROJECT FILE NO.	609204		

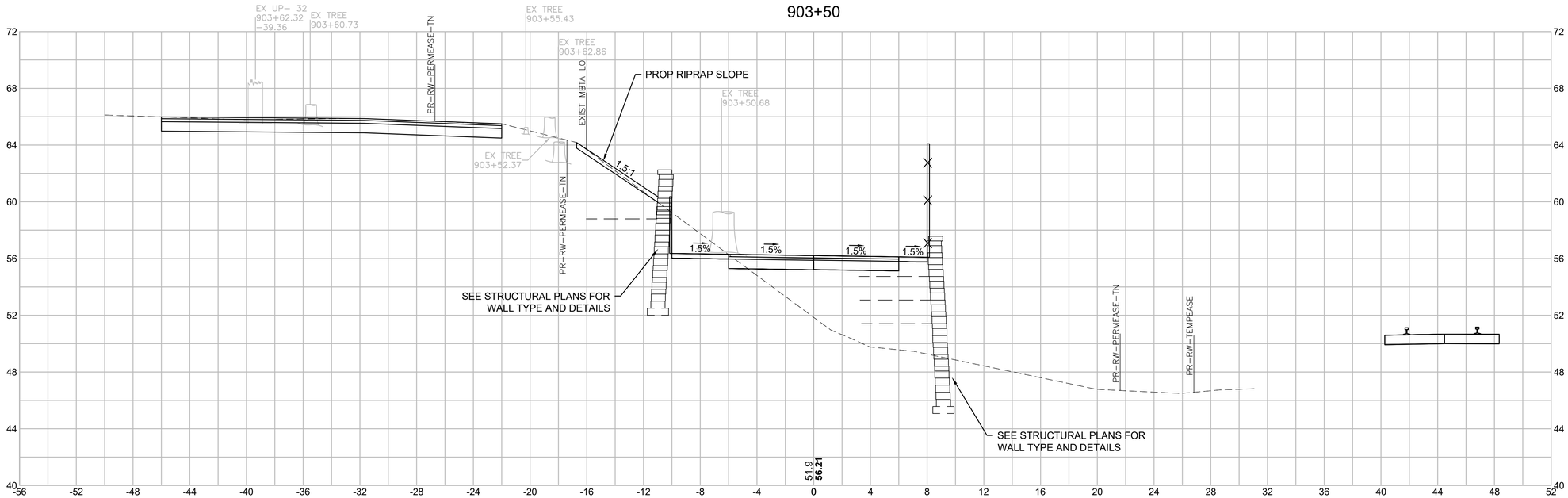
CROSS SECTIONS

904+00



EXCAVATION: 3
EMBANKMENT:103

903+50



EXCAVATION: 10
EMBANKMENT:58

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:07 AM

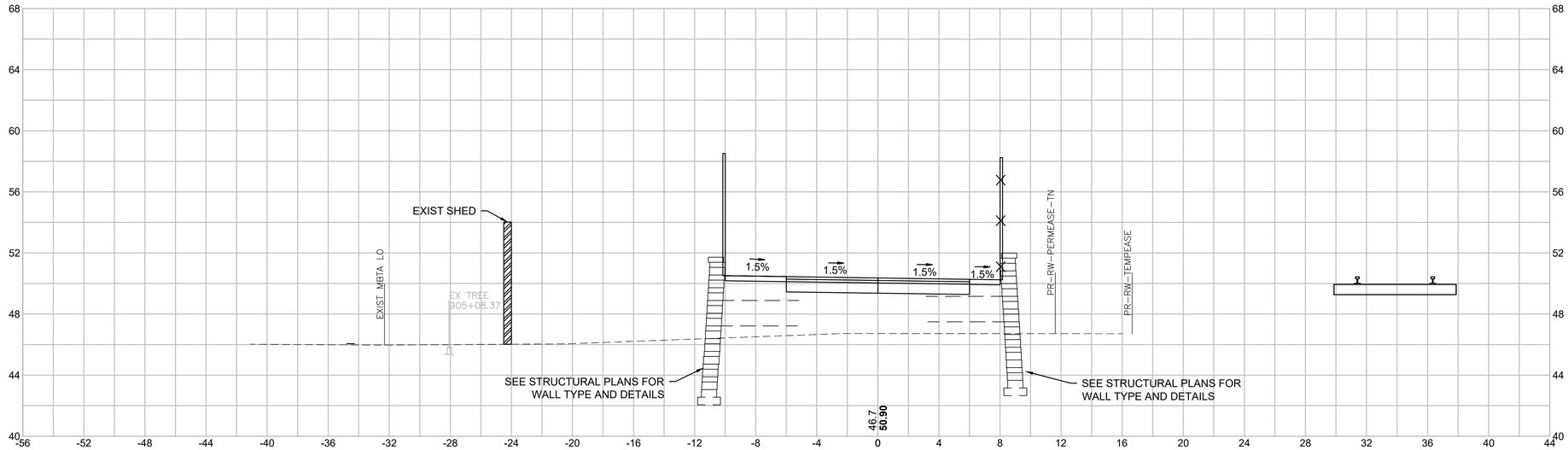
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:07 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	139	199
PROJECT FILE NO.	609204		

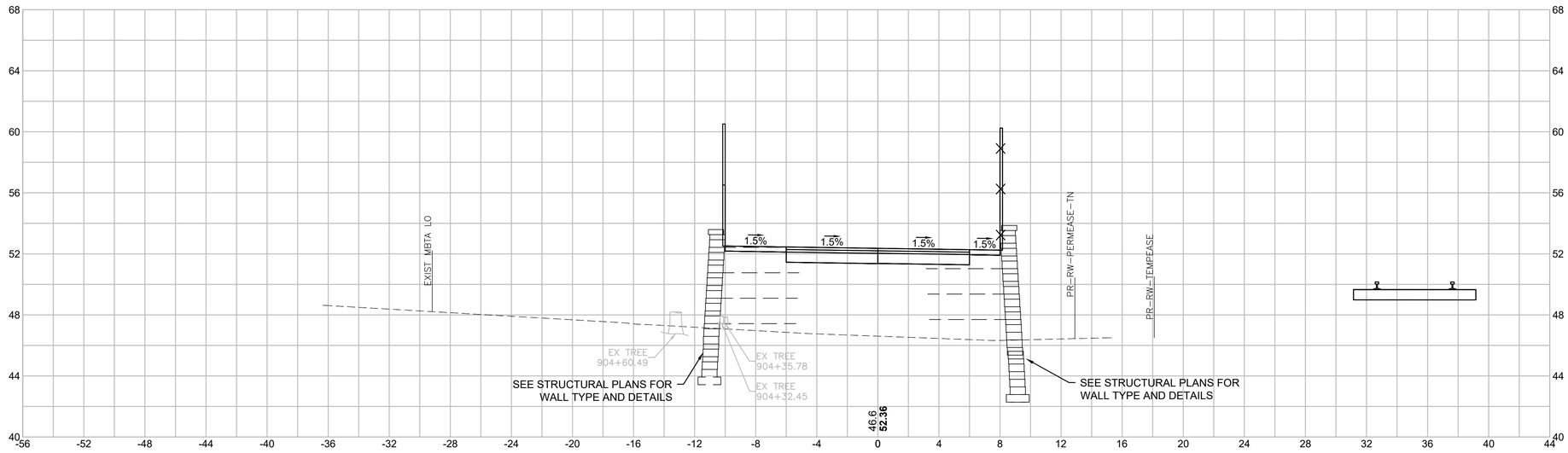
CROSS SECTIONS

905+00



EXCAVATION: 6
EMBANKMENT:77

904+50



EXCAVATION: 4
EMBANKMENT:92

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:07 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:07 AM

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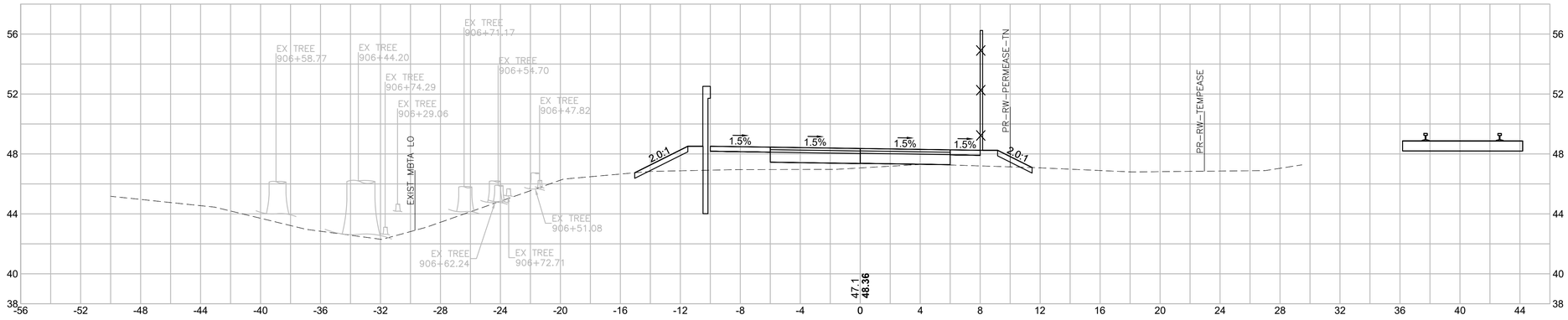
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	140	199
PROJECT FILE NO.	609204		

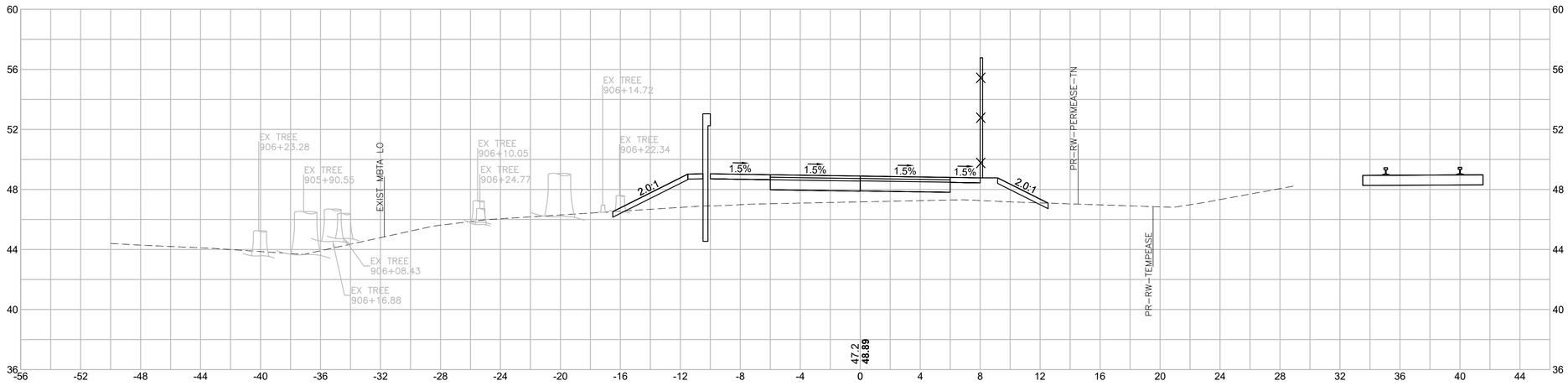
CROSS SECTIONS

906+50



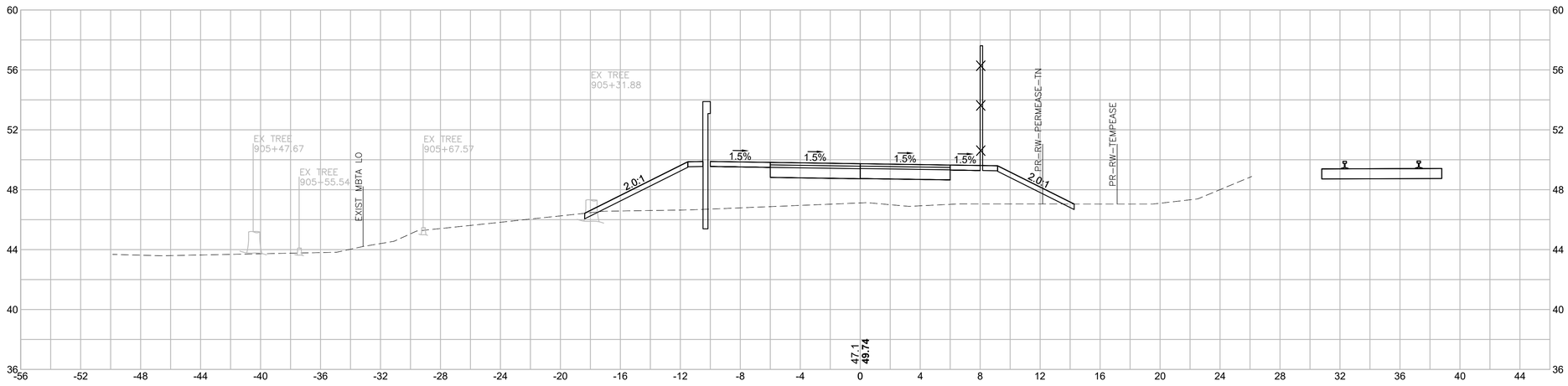
EXCAVATION:0
EMBANKMENT:33

906+00



EXCAVATION: 0
EMBANKMENT:29

905+50



EXCAVATION: 0
EMBANKMENT:58

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:08 AM

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:08 AM

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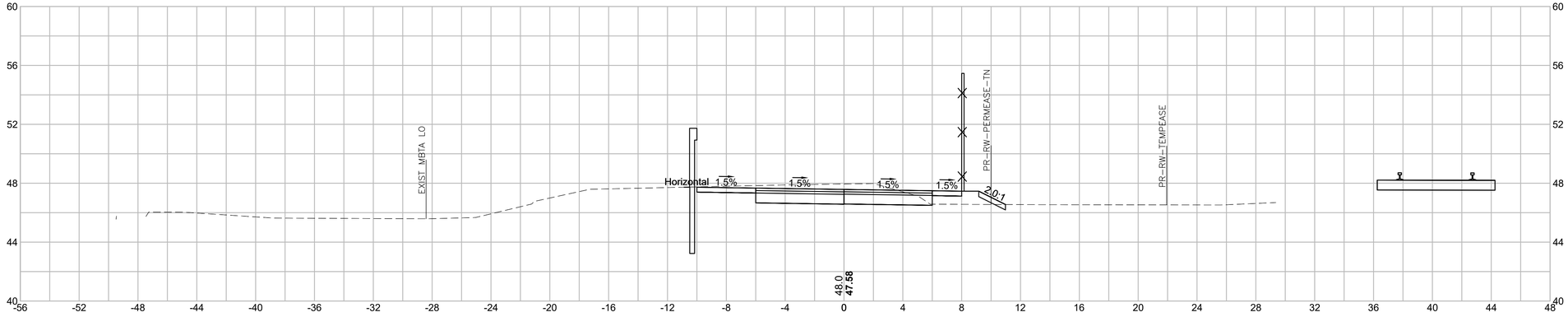
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

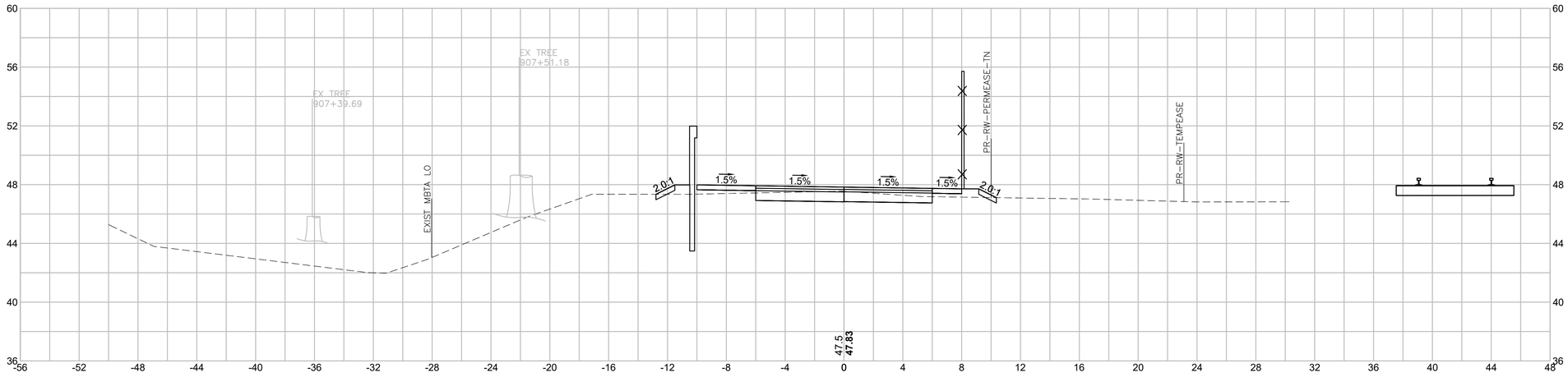
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	141	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

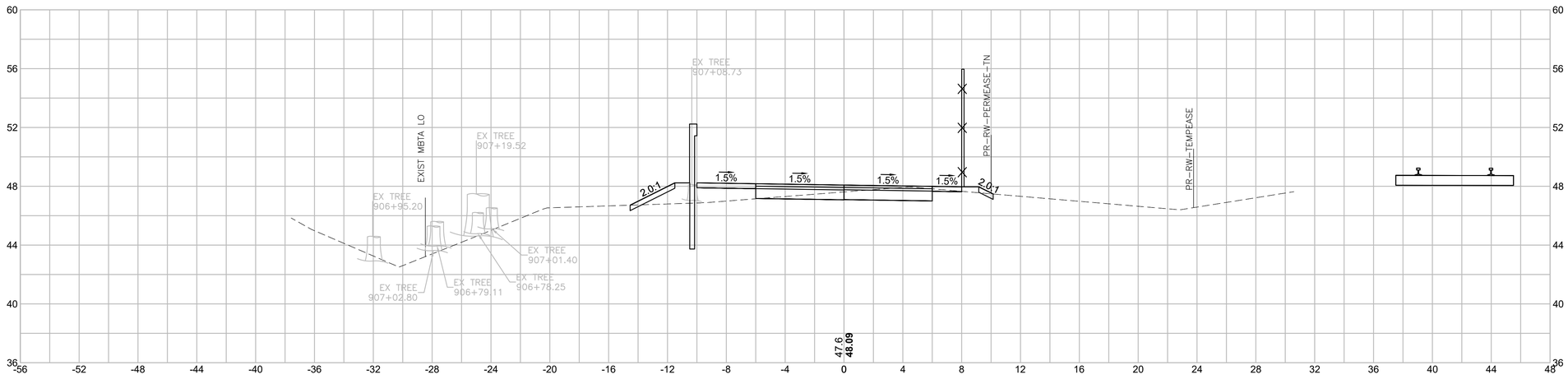
908+00



907+50



907+00



HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:08 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:08 AM

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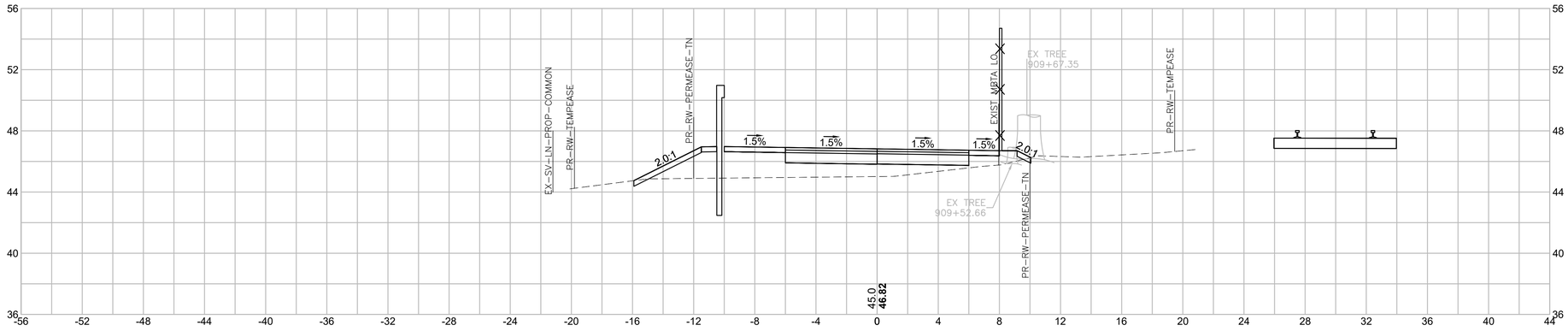
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	142	199
PROJECT FILE NO.	609204		

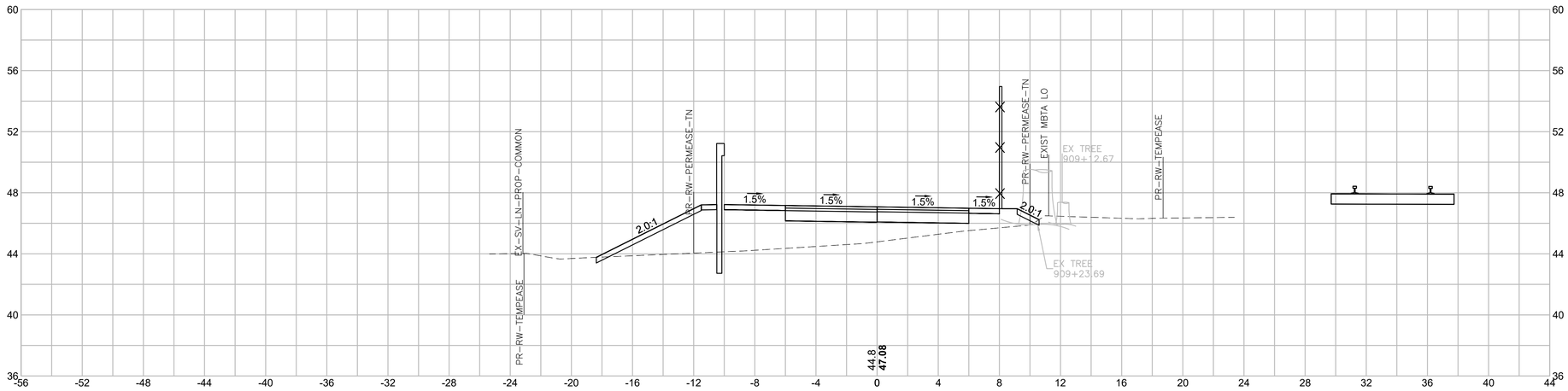
CROSS SECTIONS

909+50



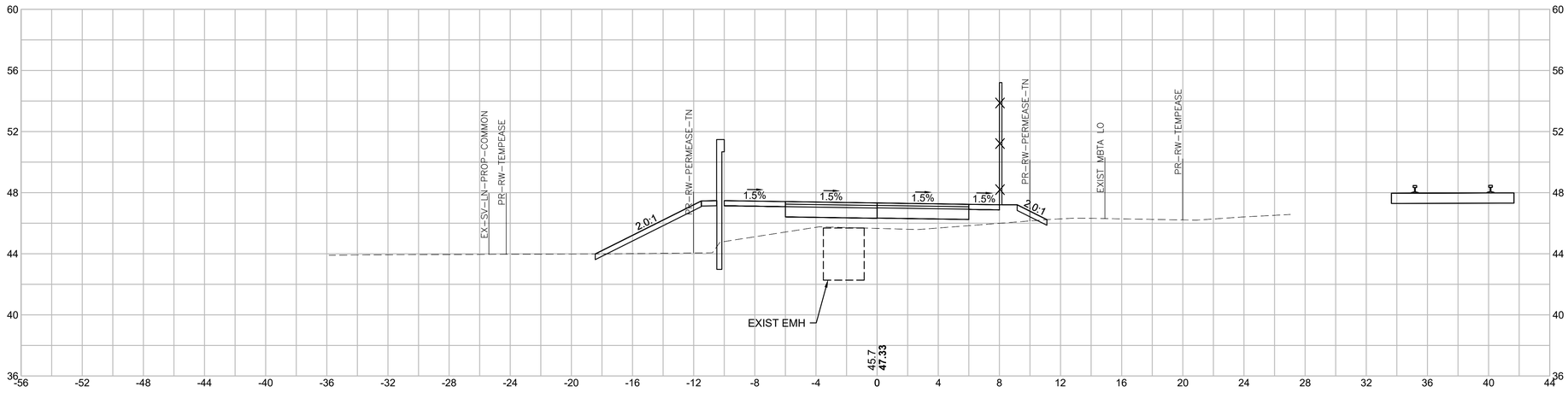
EXCAVATION: 0
EMBANKMENT:22

909+00



EXCAVATION: 0
EMBANKMENT:41

908+50



EXCAVATION: 0
EMBANKMENT:32

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:08 AM

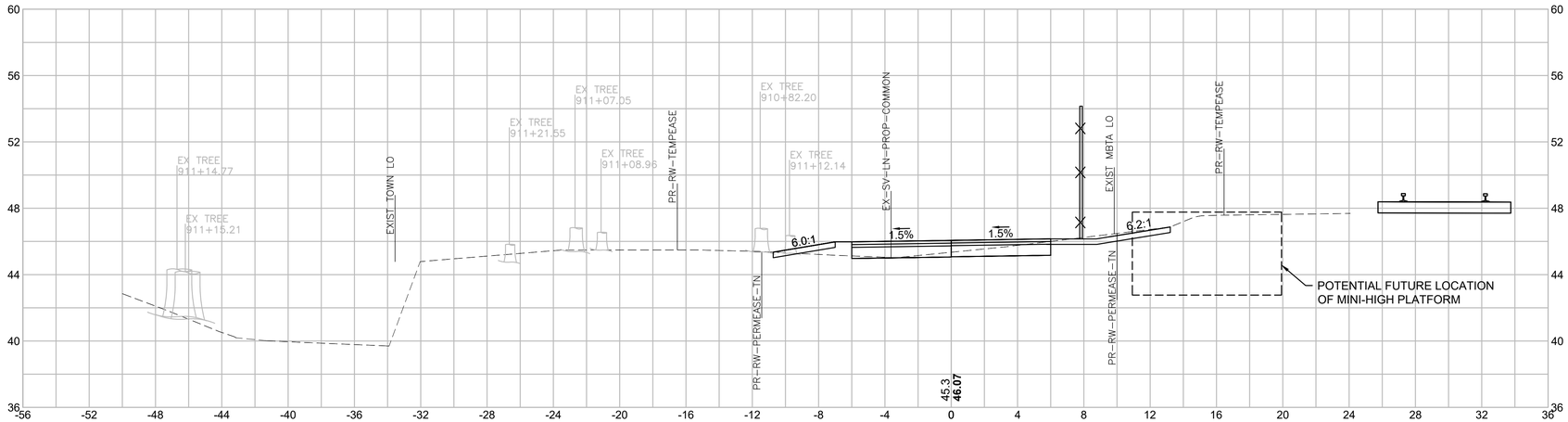
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:08 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	143	199
PROJECT FILE NO.	609204		

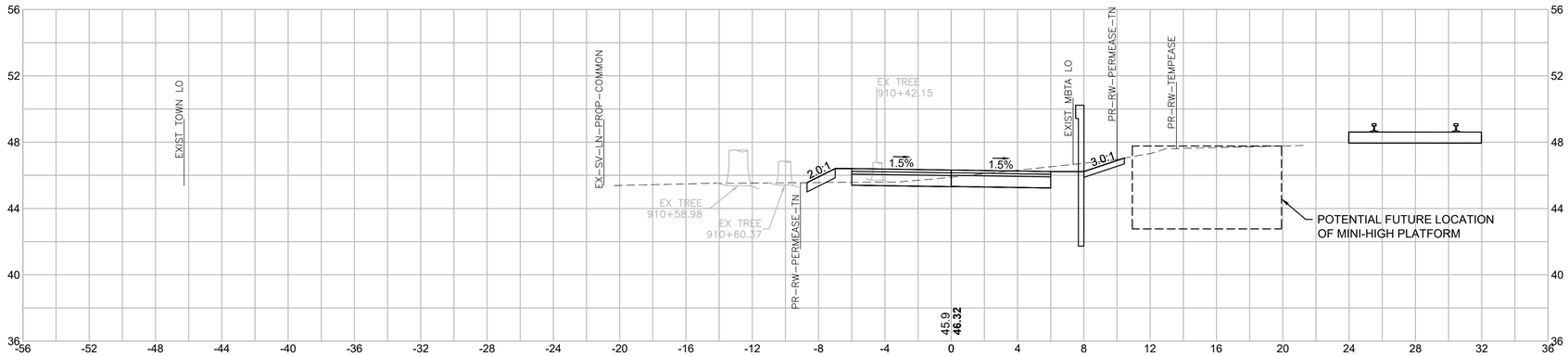
CROSS SECTIONS

911+00



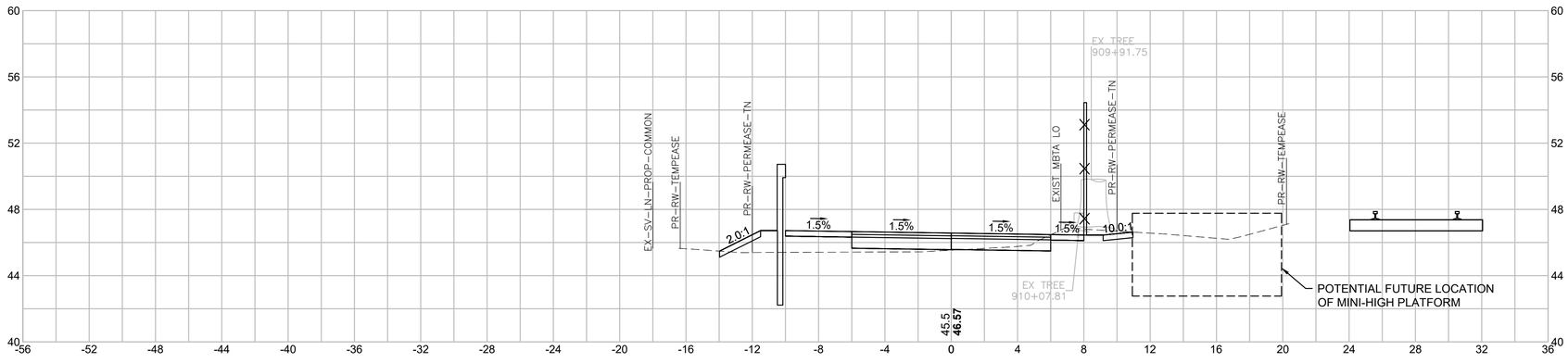
EXCAVATION: 2
EMBANKMENT:8

910+50



EXCAVATION: 4
EMBANKMENT:7

910+00



EXCAVATION: 3
EMBANKMENT:7

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch — P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:09 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:09 AM

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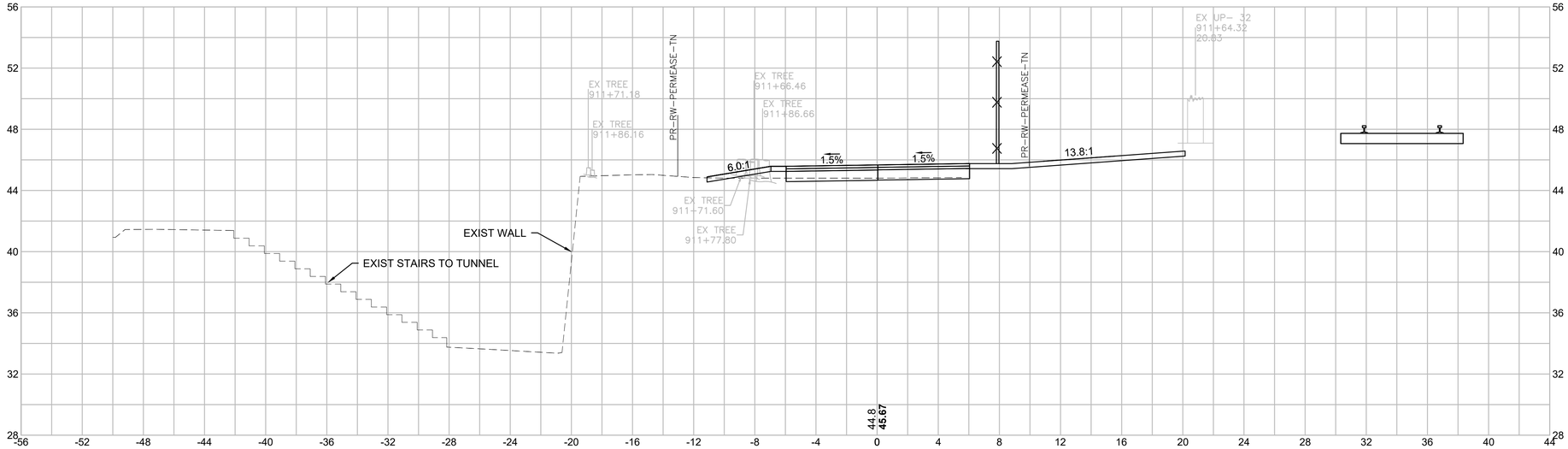
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	144	199
PROJECT FILE NO.	609204		

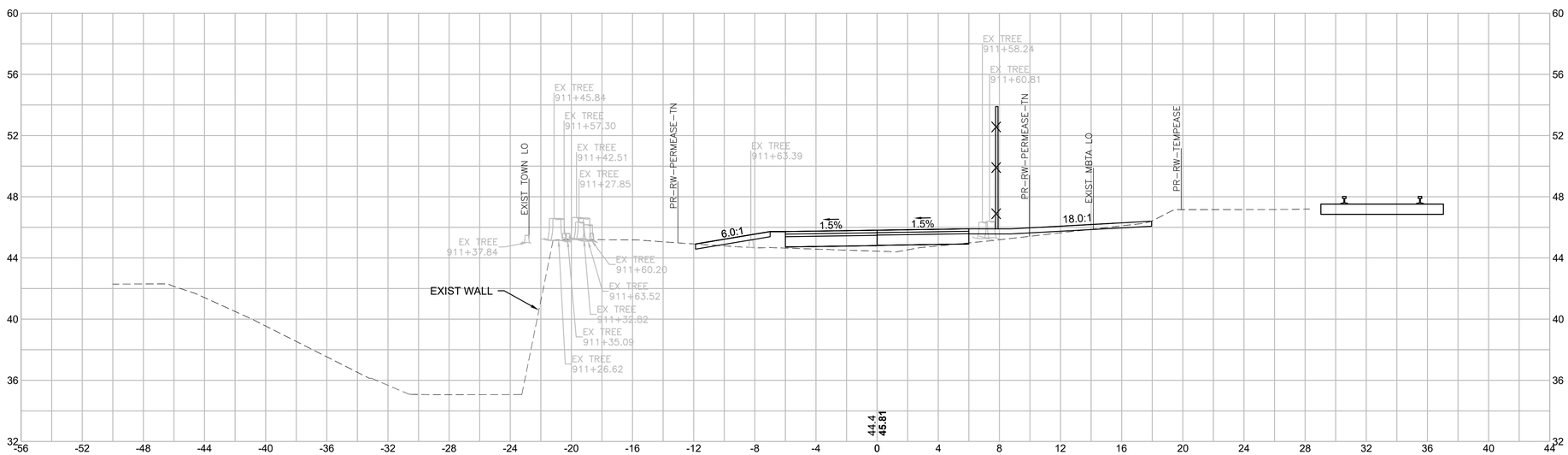
CROSS SECTIONS

911+78



EXCAVATION: #
EMBANKMENT:#

911+50



EXCAVATION: 1
EMBANKMENT:7

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:09 AM

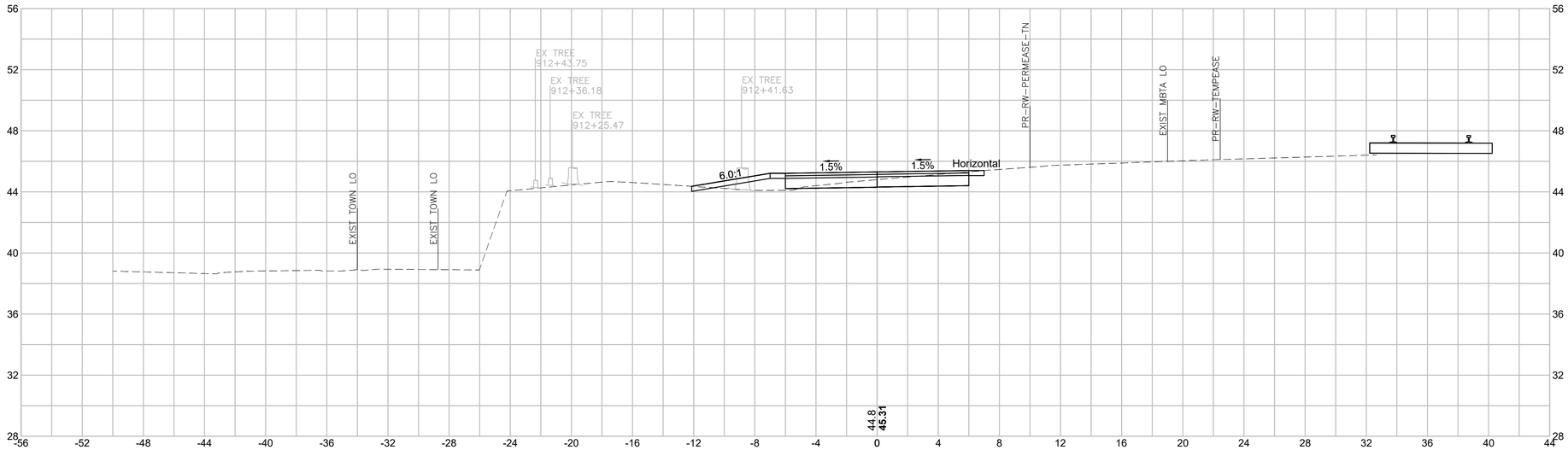
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:09 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	145	199
PROJECT FILE NO.	609204		

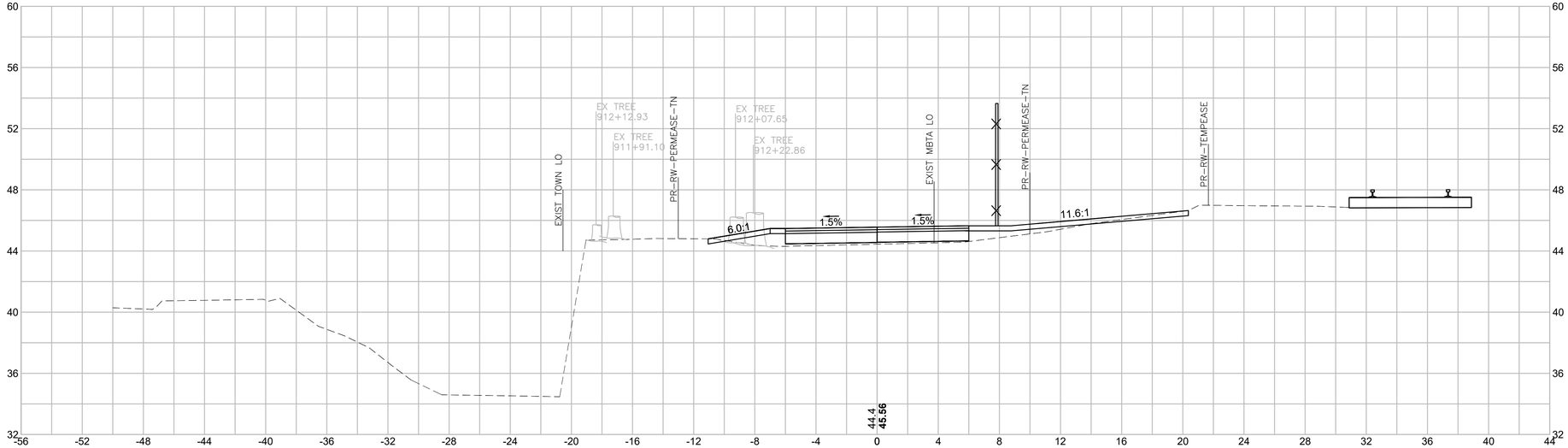
CROSS SECTIONS

912+50



EXCAVATION: 7
EMBANKMENT:2

912+00



EXCAVATION: 2
EMBANKMENT:6

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:09 AM

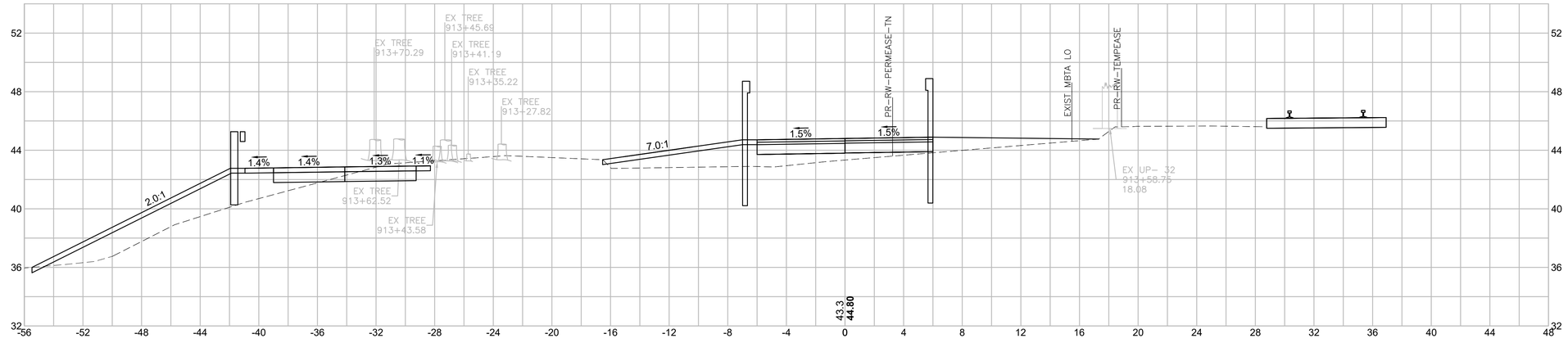
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:09 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	146	199
PROJECT FILE NO.	609204		

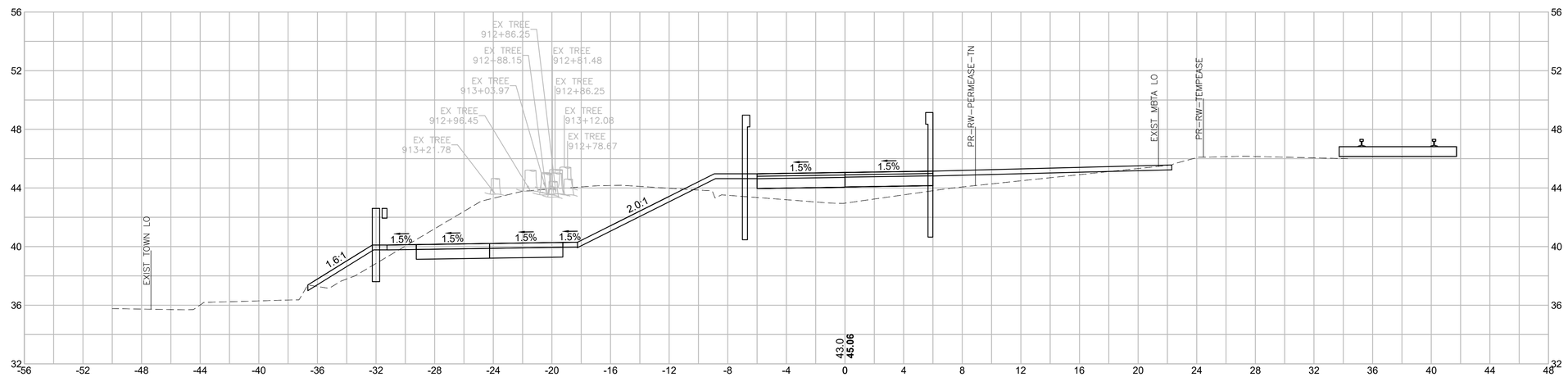
CROSS SECTIONS

913+50



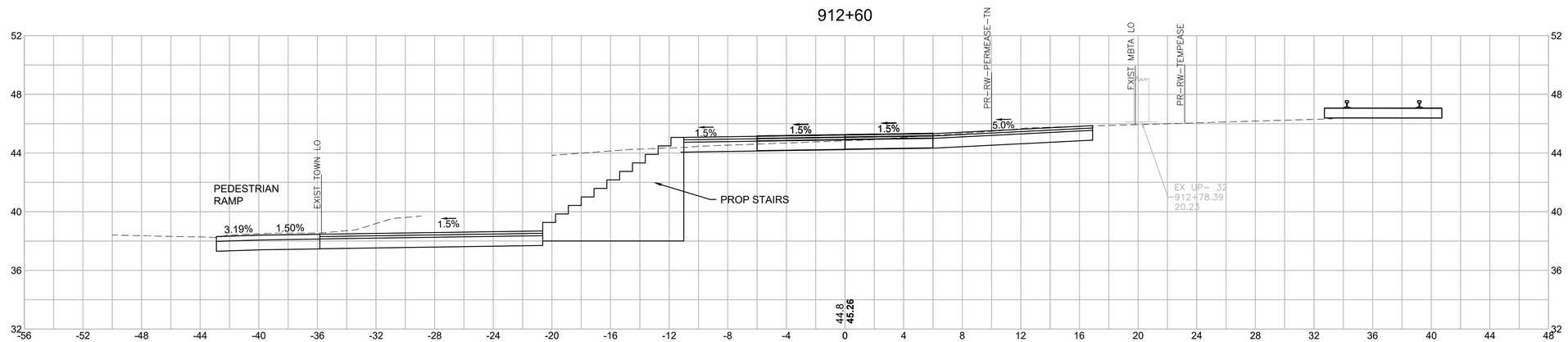
EXCAVATION: 6
EMBANKMENT:35

913+00



EXCAVATION: 57
EMBANKMENT:15

912+60



EXCAVATION: 124
EMBANKMENT:0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:10 AM

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:10 AM

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:10 AM

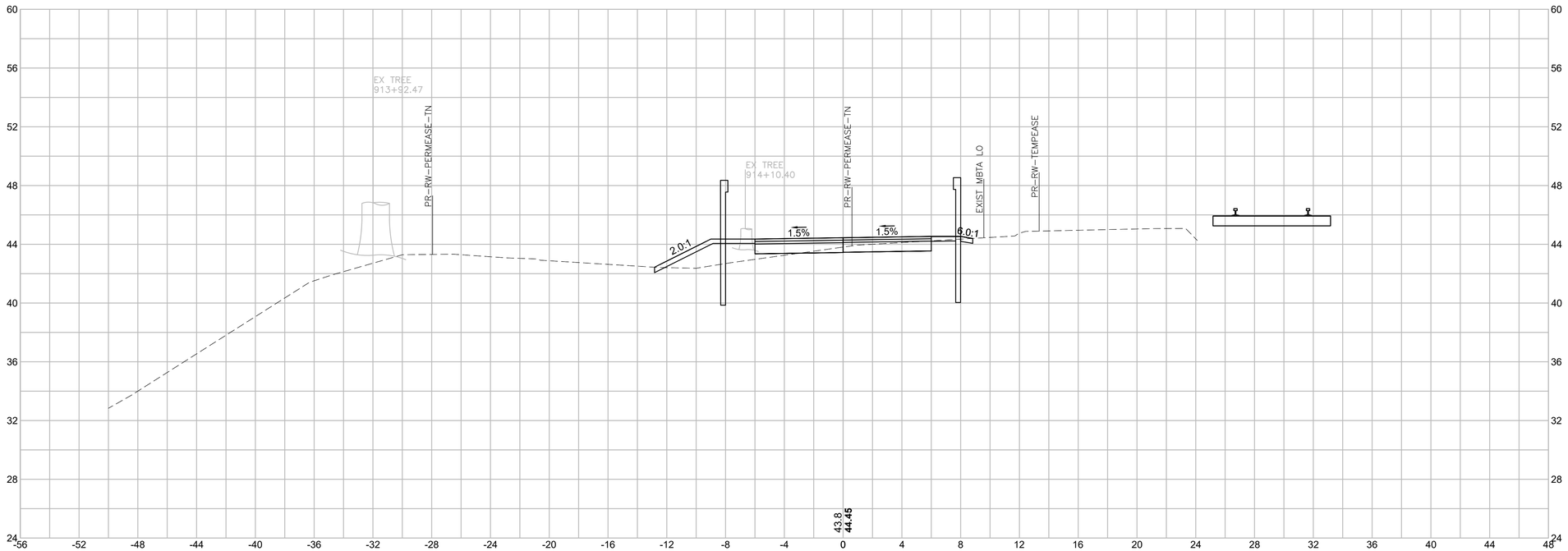
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	147	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:10 AM

914+00



EXCAVATION: 6
EMBANKMENT:7

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

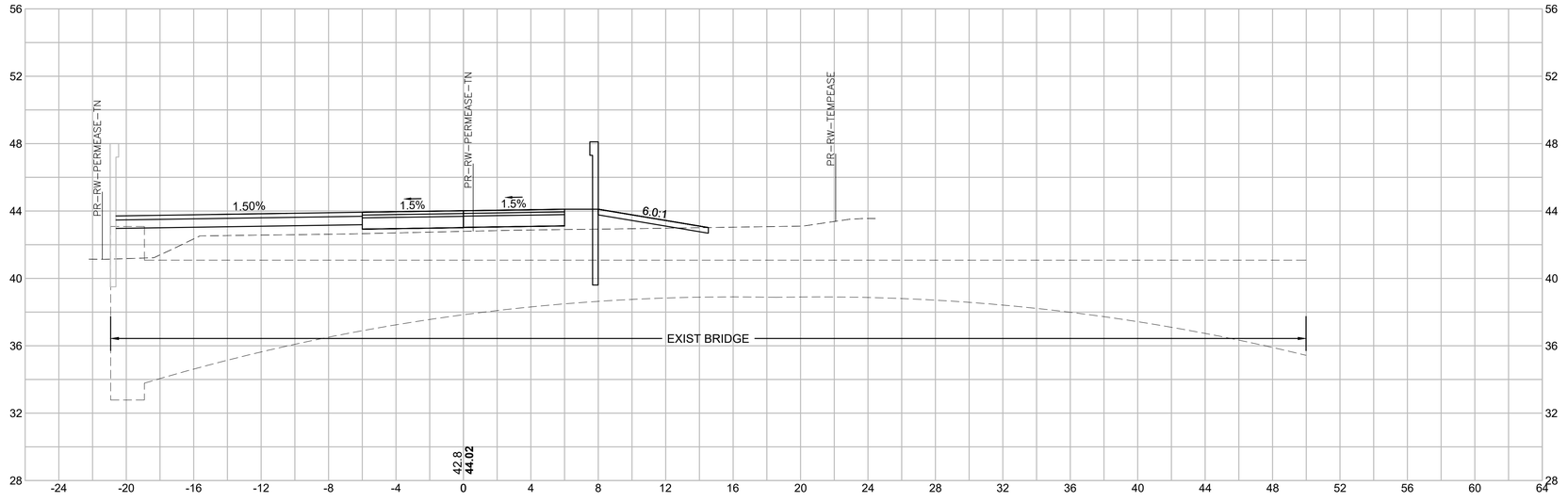
P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg, 12/17/2025 12:10:20 AM, _AutoCAD PDF (General Documentation).pc3

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	148	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

914+50



EXCAVATION: 0
EMBANKMENT:16

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:10 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:10 AM

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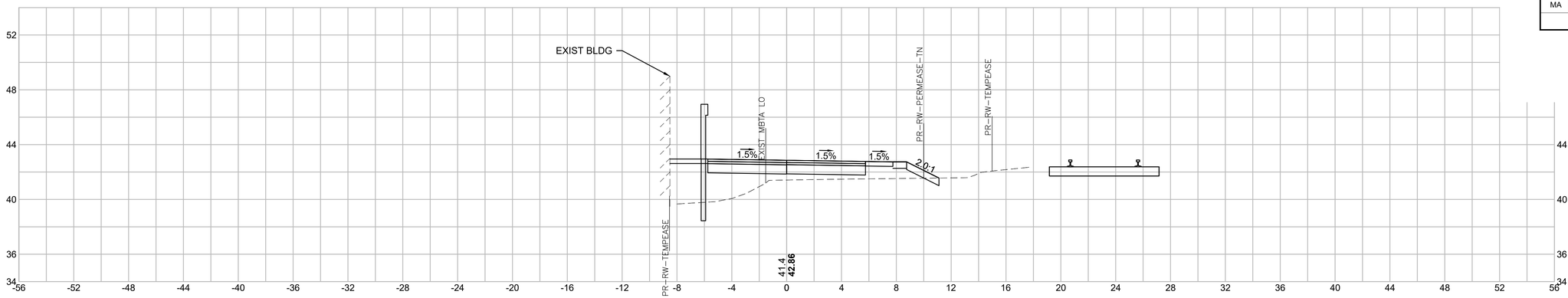
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	149	199
PROJECT FILE NO.	609204		

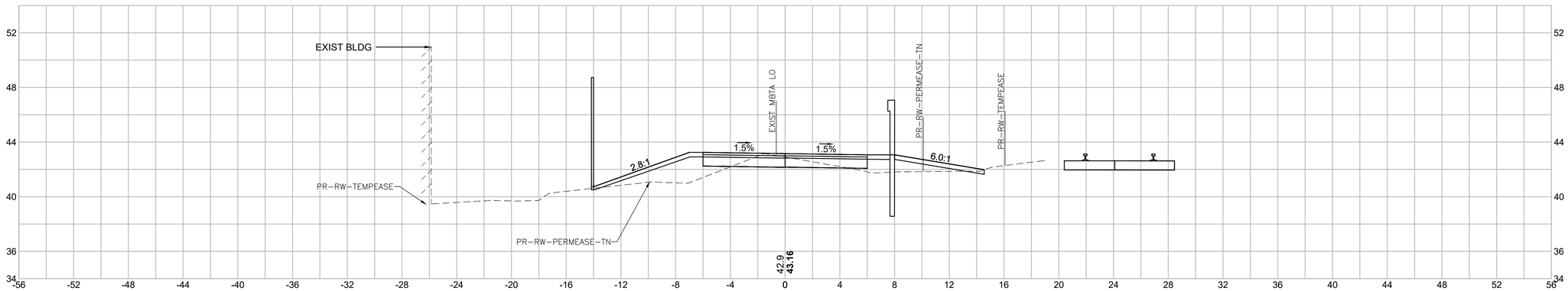
CROSS SECTIONS

915+85



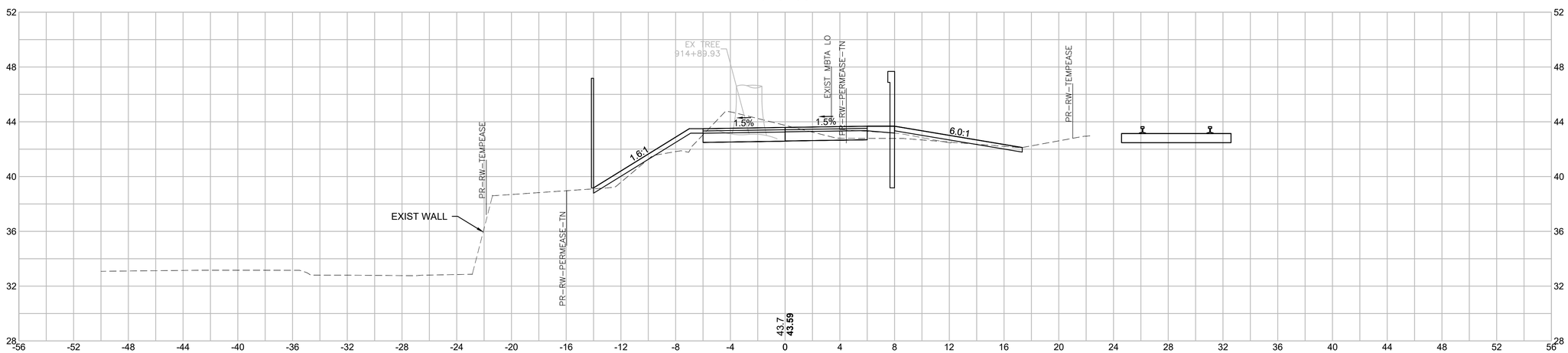
EXCAVATION: 2
EMBANKMENT: 19

915+50



EXCAVATION: 6
EMBANKMENT:10

915+00



EXCAVATION: 2
EMBANKMENT:2

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:11 AM

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:11 AM

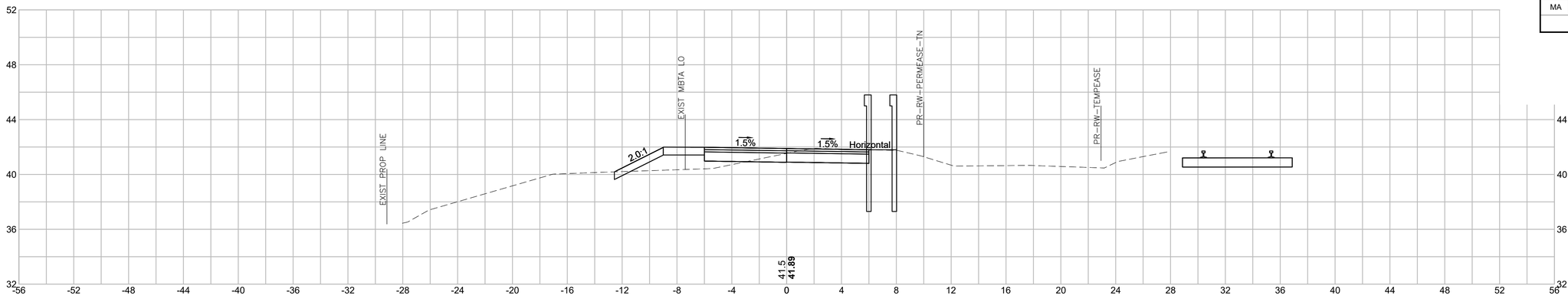
P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg, 12/17/2025 12:10:58 AM, _AutoCAD PDF (General Documentation).pc3

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	150	199
PROJECT FILE NO.	609204		

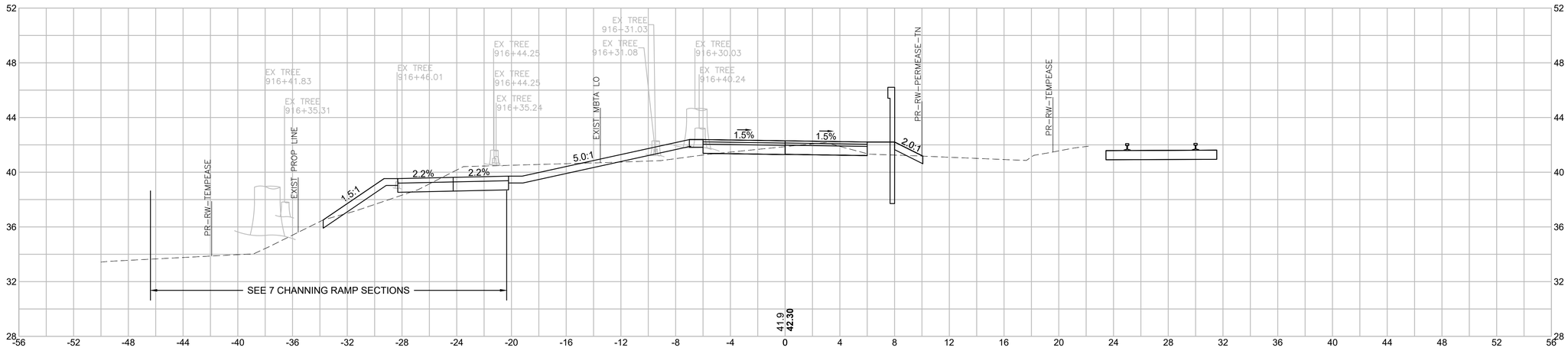
CROSS SECTIONS

917+00



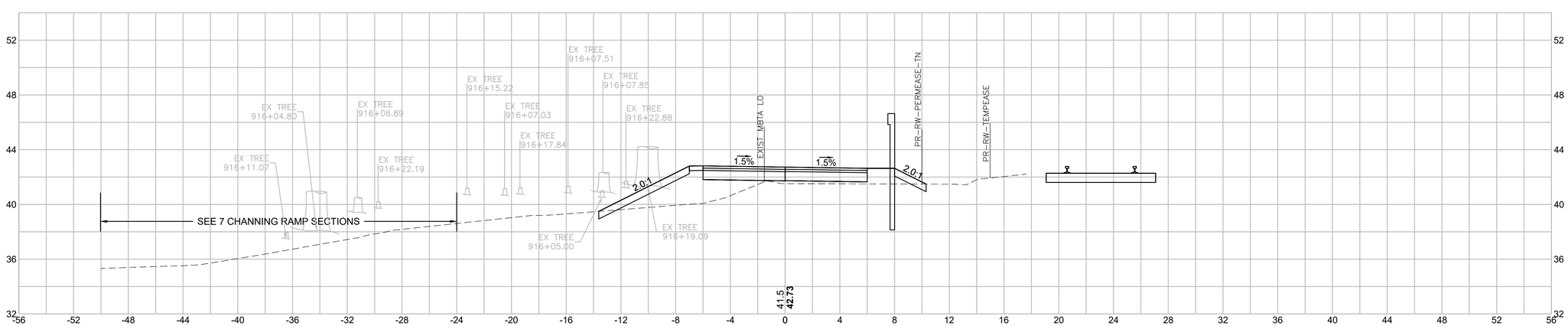
EXCAVATION: 3
EMBANKMENT:8

916+50



EXCAVATION: 7
EMBANKMENT:5

916+00



EXCAVATION: 3
EMBANKMENT:15

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:11 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:11 AM

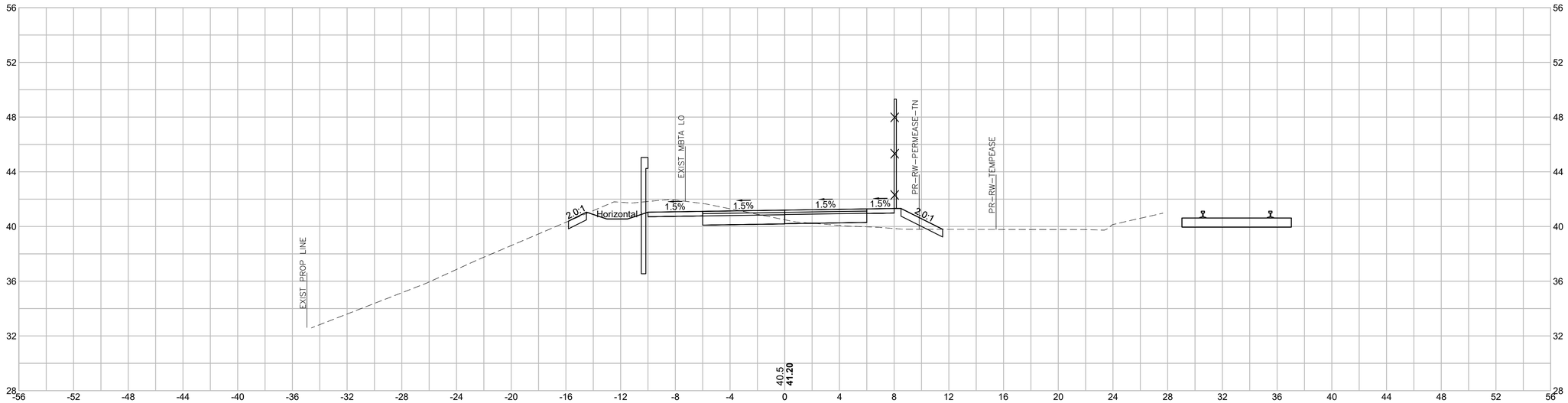
P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg, 12/17/2025 12:11:19 AM, _AutoCAD PDF (General Documentation).pc3

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	151	199
PROJECT FILE NO.	609204		

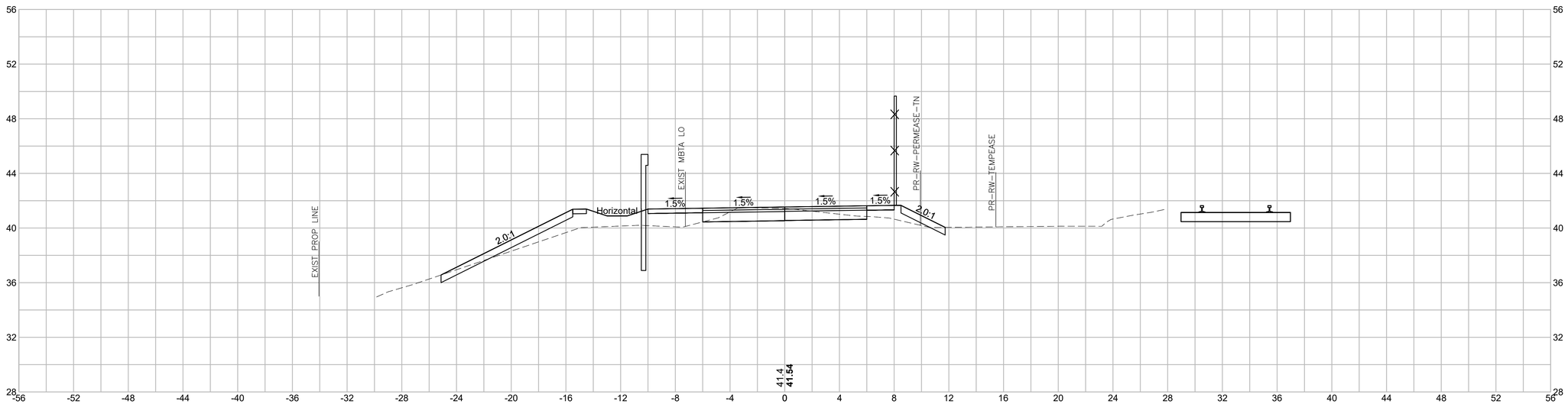
CROSS SECTIONS

918+00



EXCAVATION: 18
EMBANKMENT:4

917+50



EXCAVATION: 10
EMBANKMENT:14

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

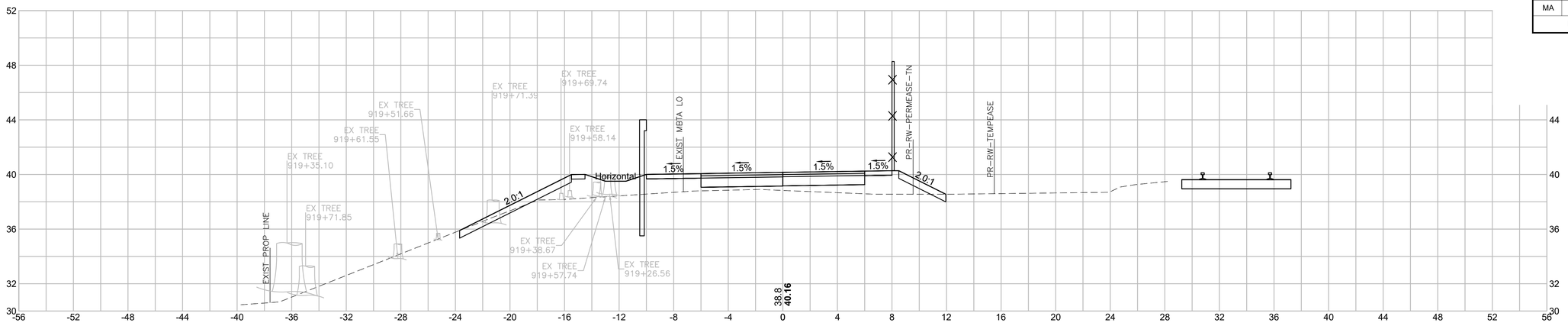
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:11 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:11 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	152	199
PROJECT FILE NO.	609204		

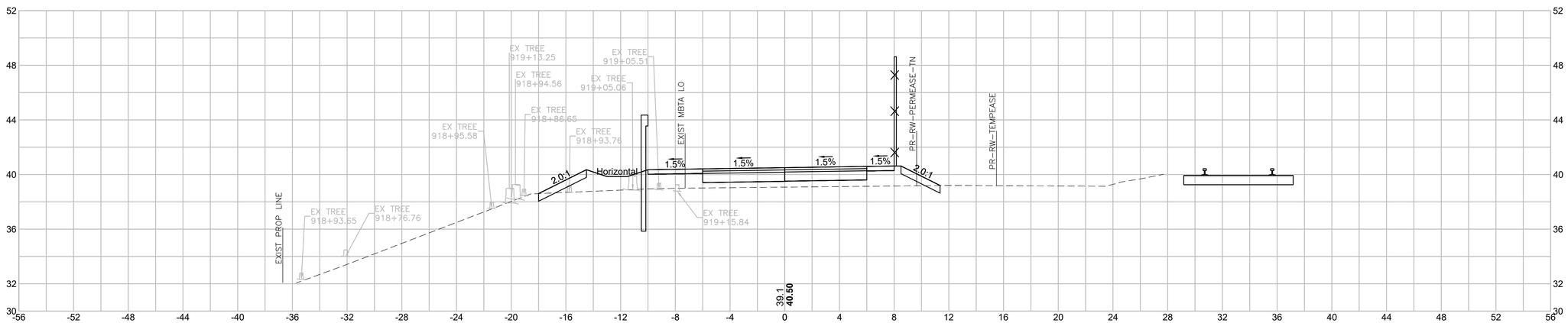
CROSS SECTIONS

919+50



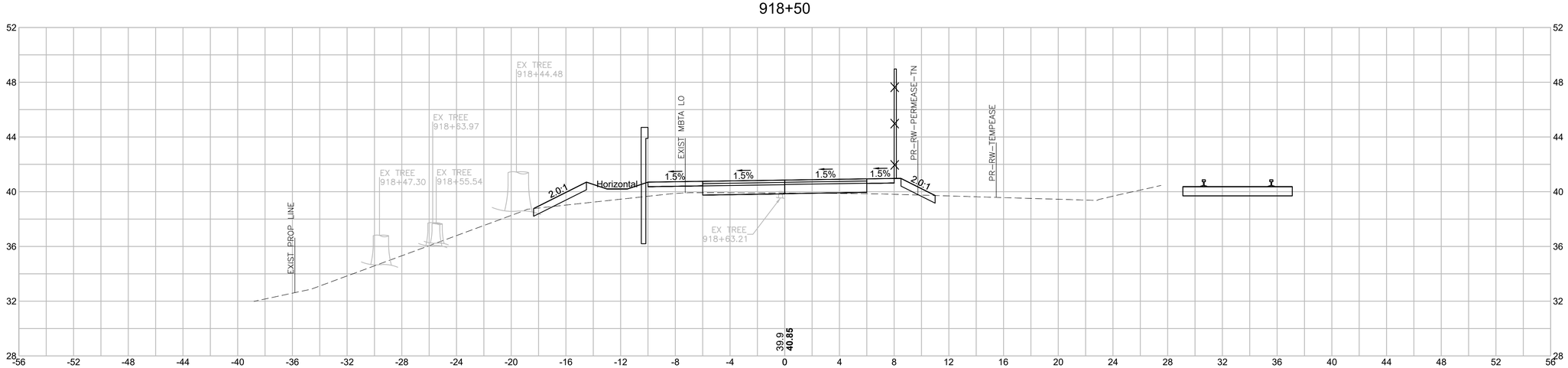
EXCAVATION: 3
EMBANKMENT:22

919+00



EXCAVATION: 2
EMBANKMENT:20

918+50



EXCAVATION: 3
EMBANKMENT:12

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:12 AM

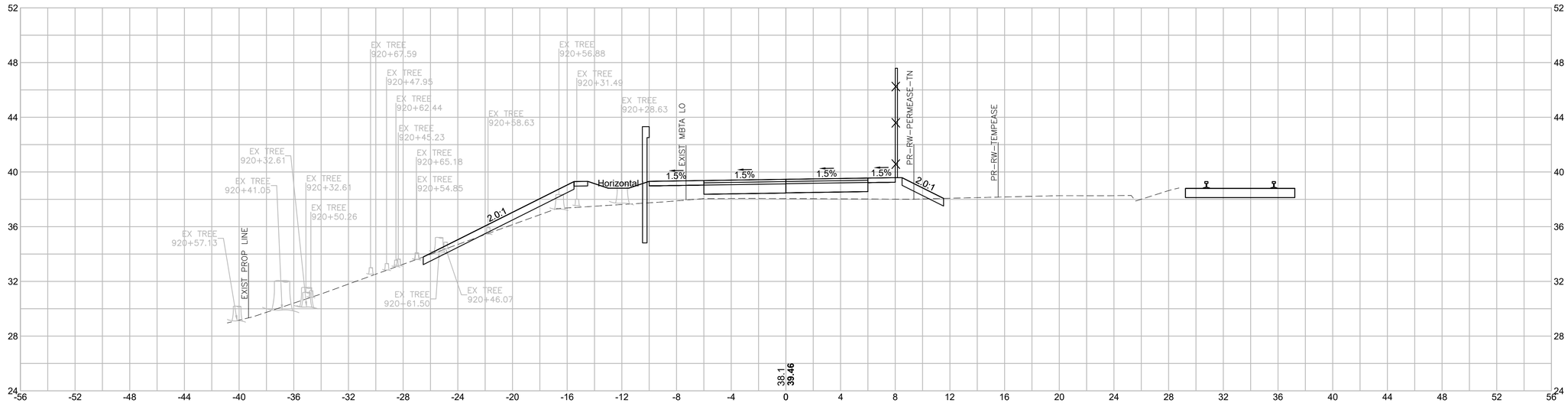
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:12 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	153	199
PROJECT FILE NO.	609204		

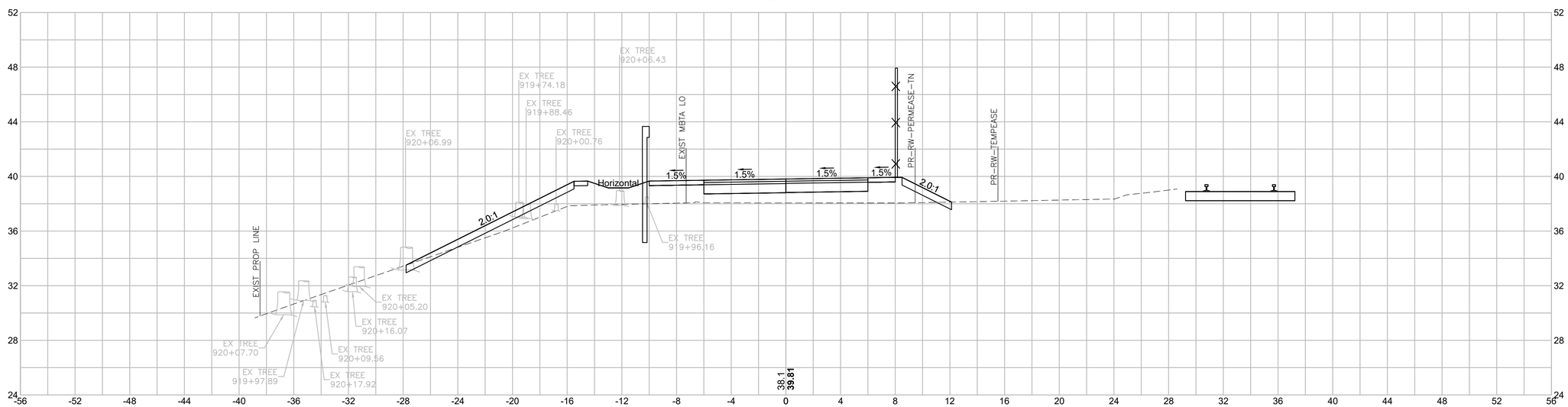
CROSS SECTIONS

920+50



EXCAVATION: 2
EMBANKMENT:25

920+00



EXCAVATION: 2
EMBANKMENT:32

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:12 AM

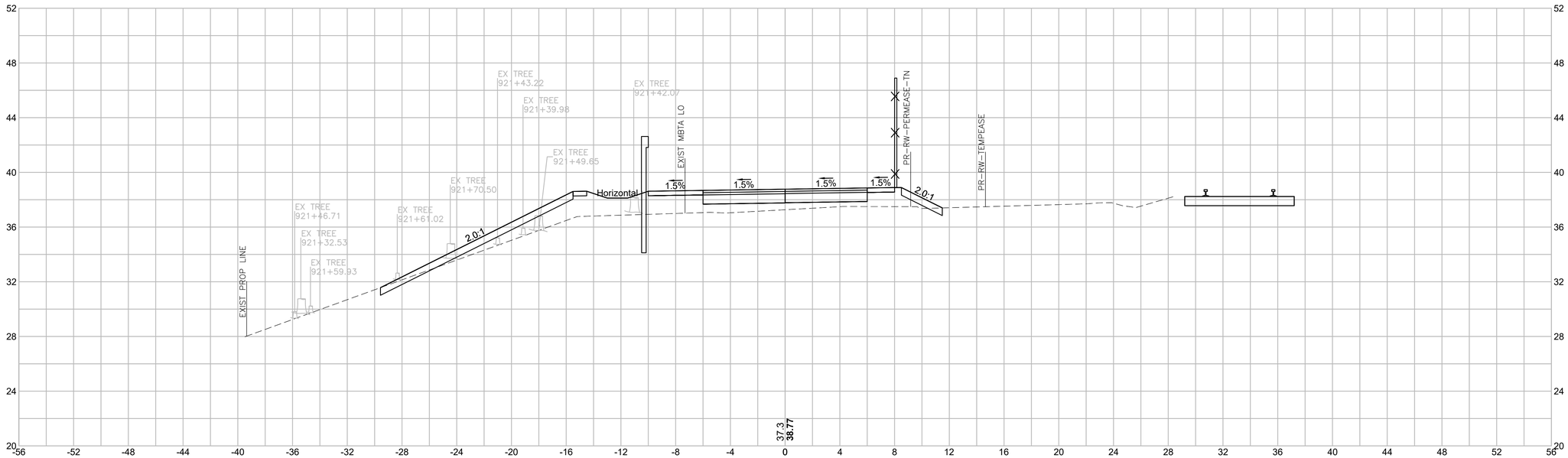
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:12 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	154	199
PROJECT FILE NO.	609204		

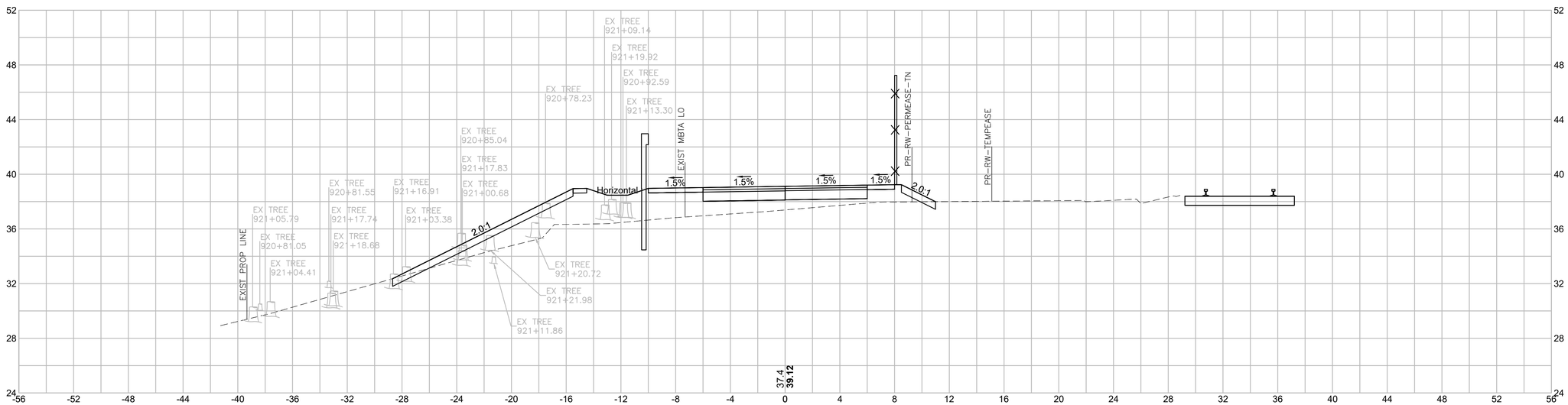
CROSS SECTIONS

921+50



EXCAVATION: 2
EMBANKMENT:29

921+00



EXCAVATION: 2
EMBANKMENT:40

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:12 AM

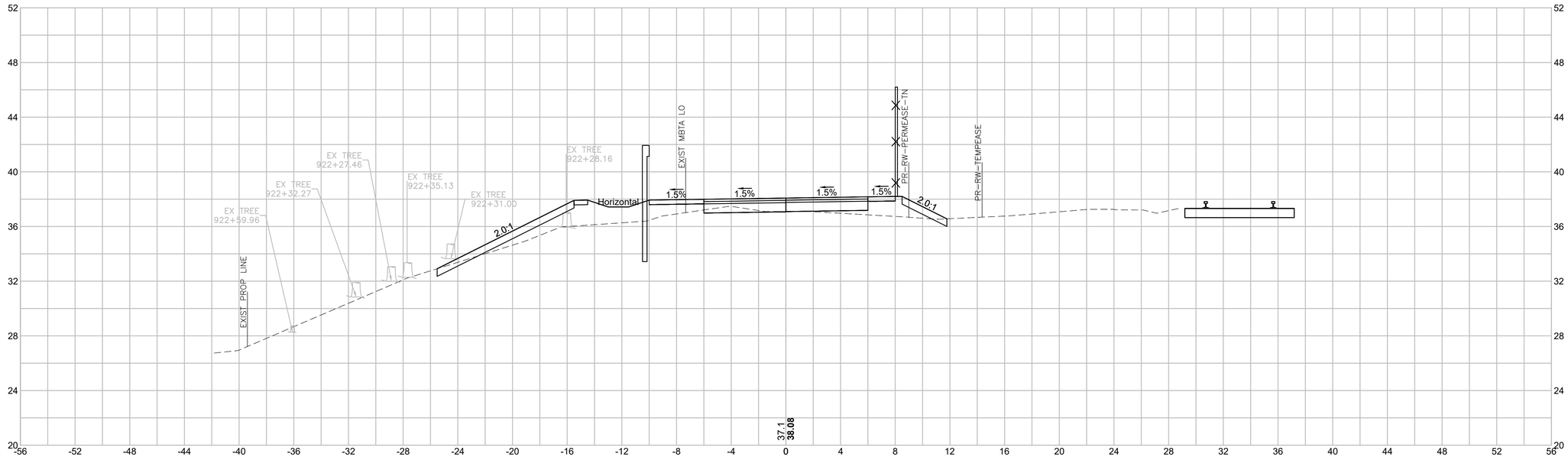
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:12 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	155	199
PROJECT FILE NO.	609204		

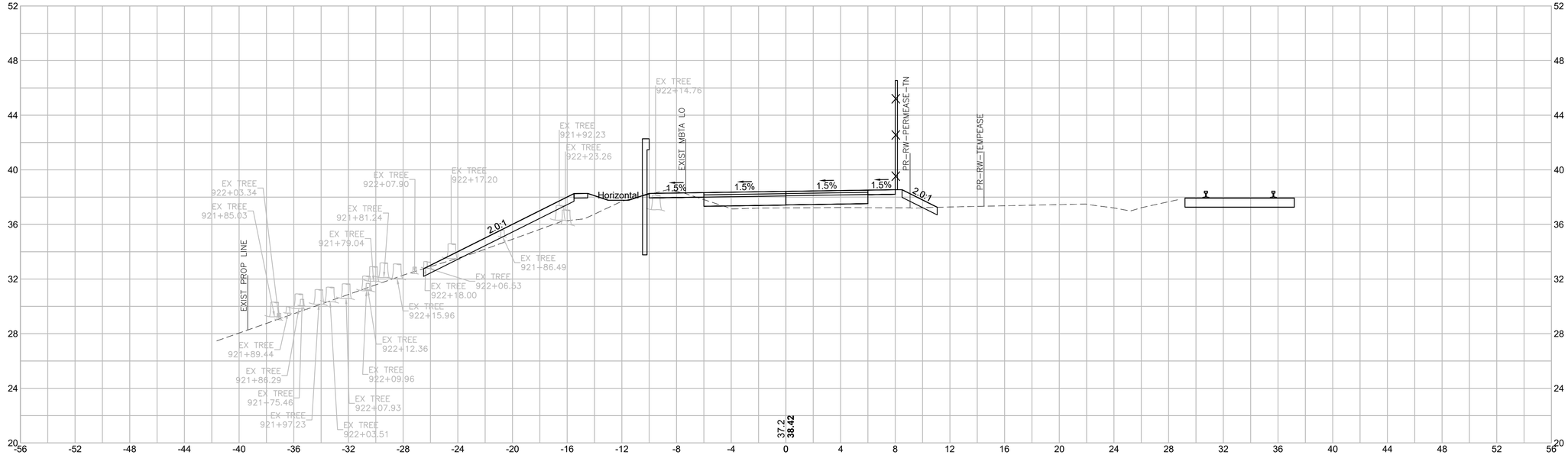
CROSS SECTIONS

922+50



EXCAVATION: 4
EMBANKMENT:18

922+00



EXCAVATION: 4
EMBANKMENT:15

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:13 AM

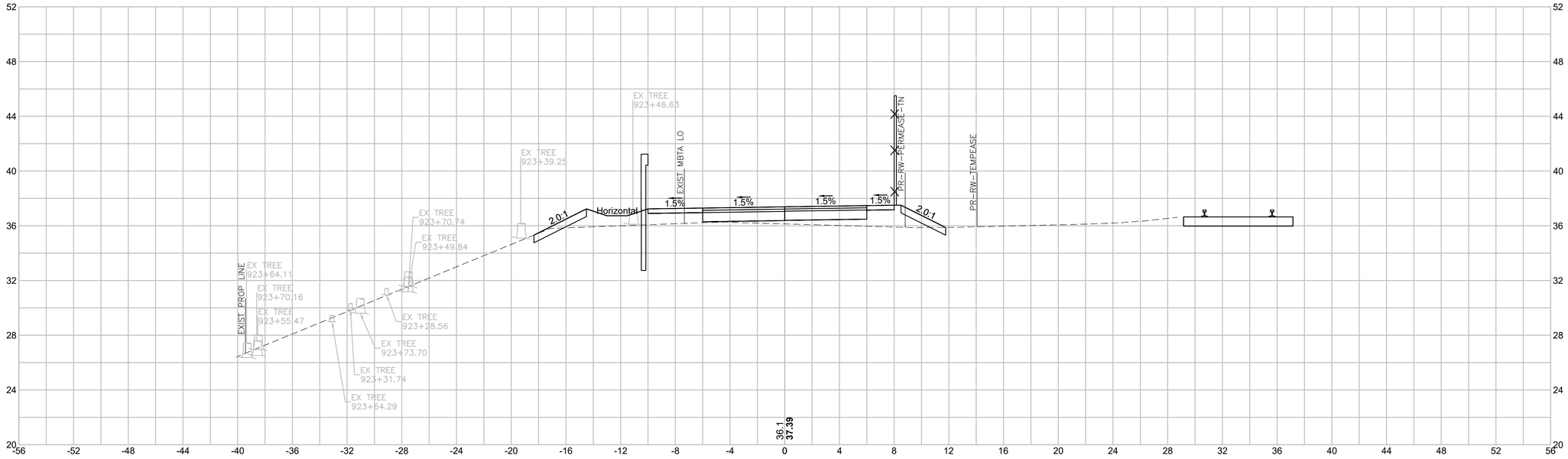
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:13 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

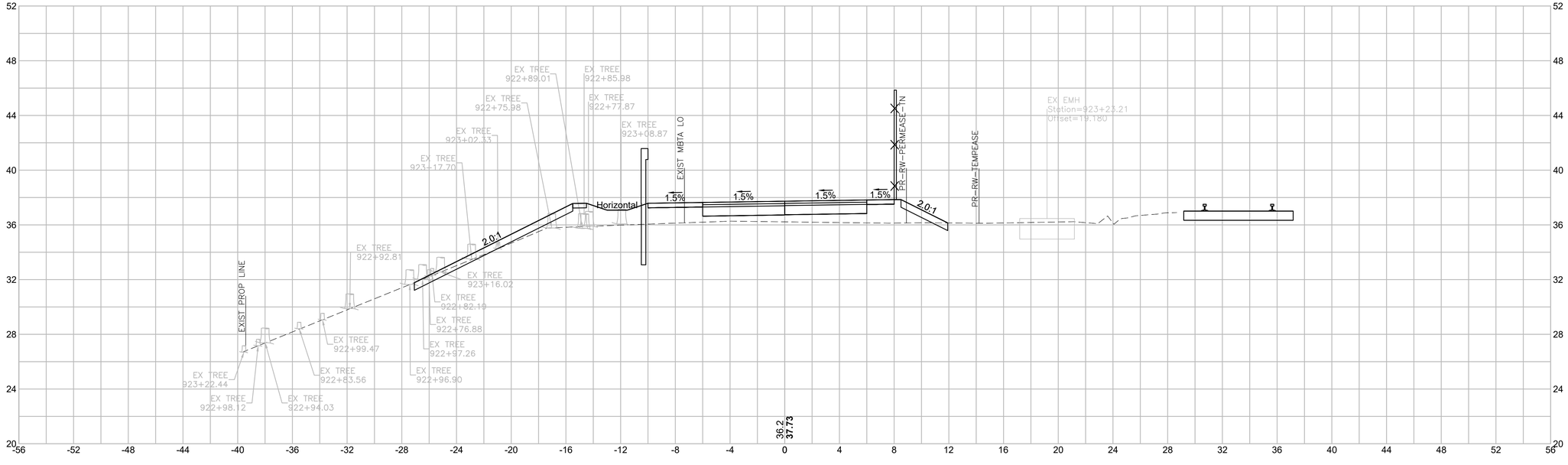
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	156	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

923+50



923+00



HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:13 AM

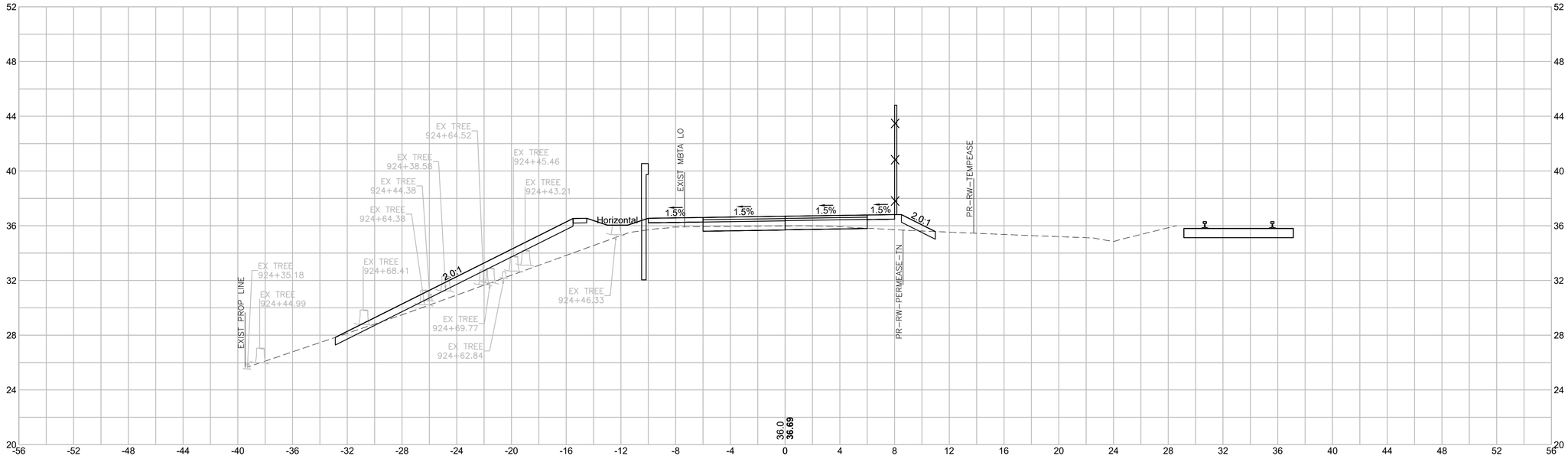
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:13 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	157	199
PROJECT FILE NO.	609204		

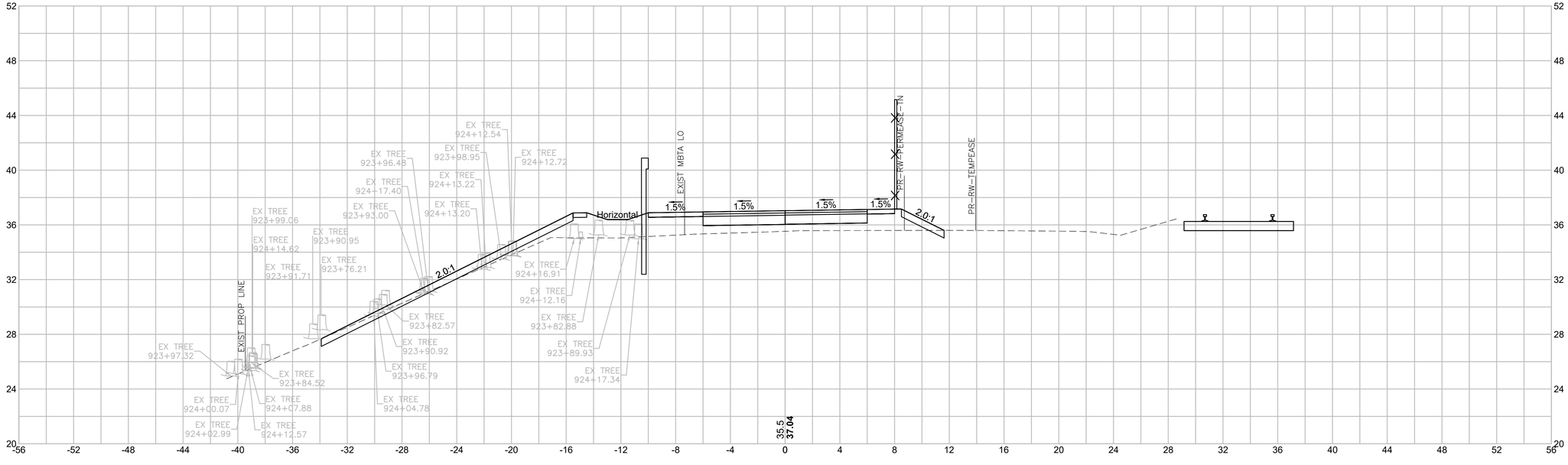
CROSS SECTIONS

924+50



EXCAVATION: 5
EMBANKMENT: 24

924+00



EXCAVATION: 4
EMBANKMENT:27

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:13 AM

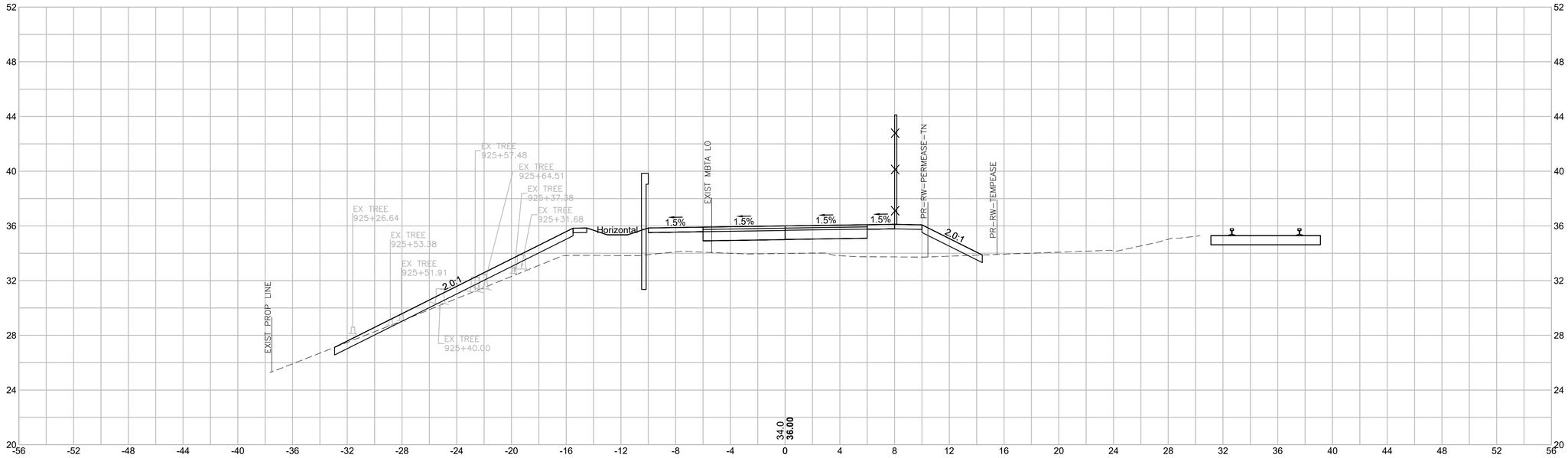
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:13 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	158	199
PROJECT FILE NO.	609204		

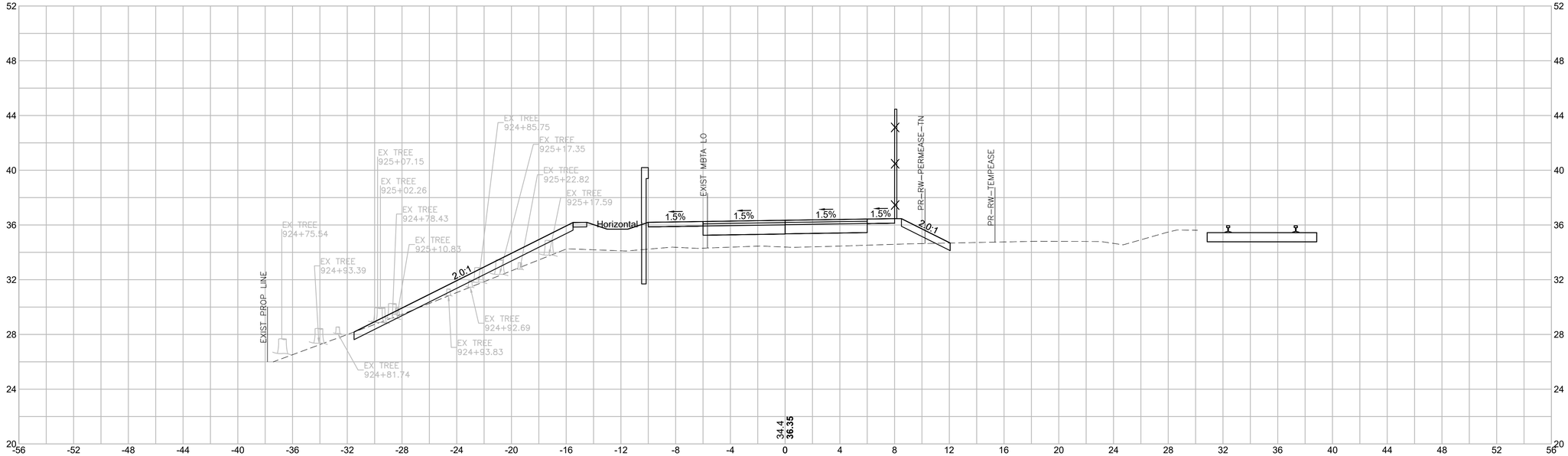
CROSS SECTIONS

925+50



EXCAVATION: 3
EMBANKMENT:43

925+00



EXCAVATION: 2
EMBANKMENT:38

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:14 AM

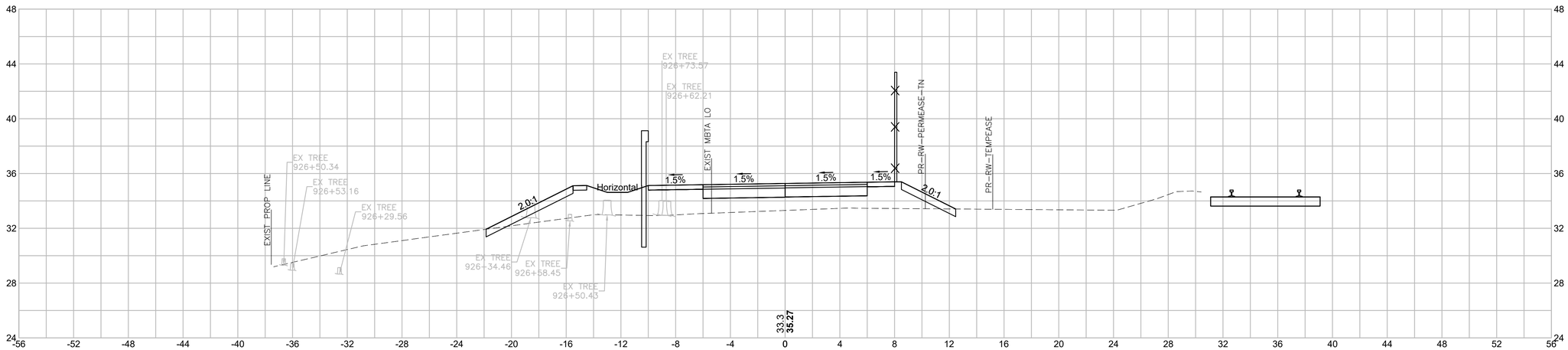
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:14 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	159	199
PROJECT FILE NO.	609204		

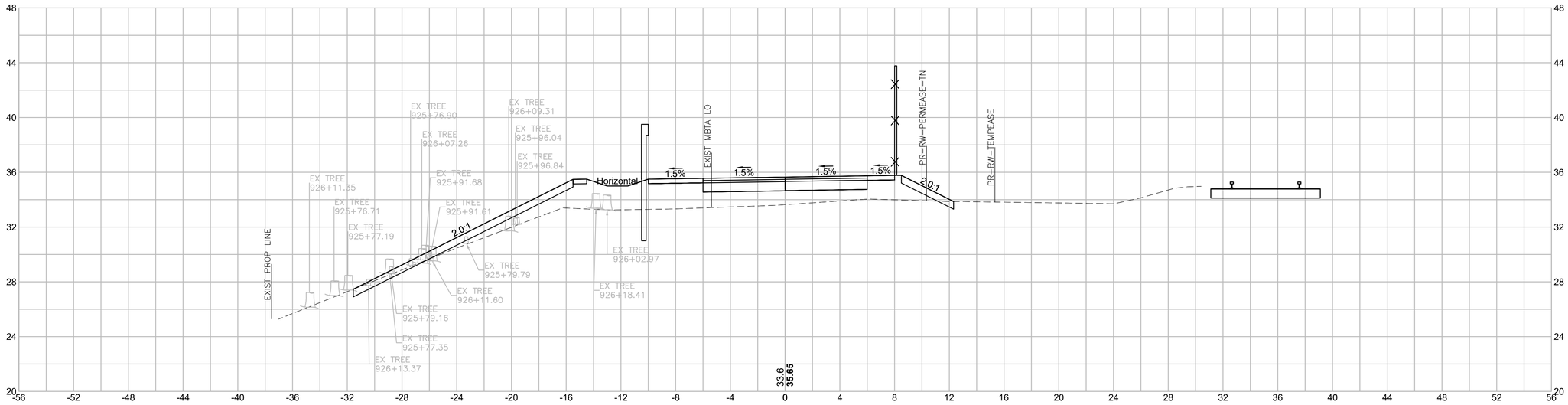
CROSS SECTIONS

926+50



EXCAVATION: 2
EMBANKMENT:39

926+00



EXCAVATION: 3
EMBANKMENT:40

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:14 AM

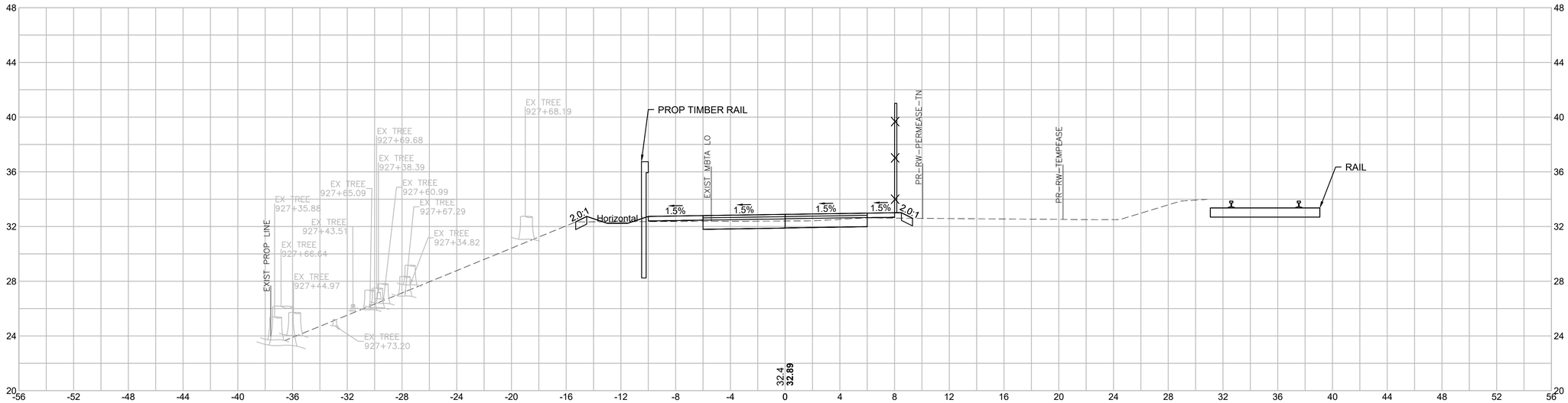
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:14 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

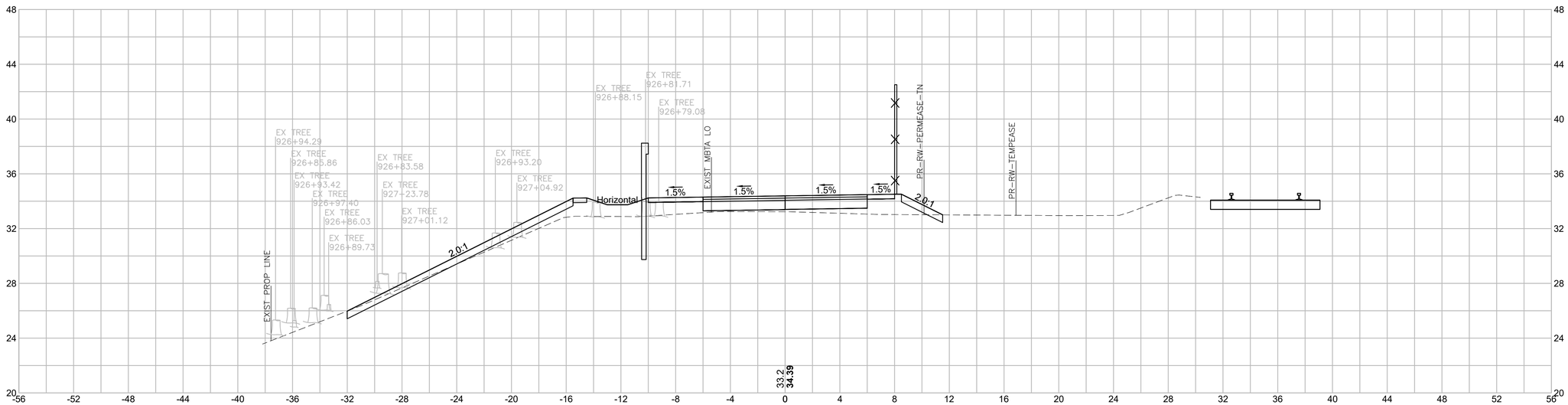
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	160	199
PROJECT FILE NO.		609204	

CROSS SECTIONS

927+50



927+00



EXCAVATION: 10
EMBANKMENT:1

EXCAVATION: 3
EMBANKMENT:18

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:14 AM

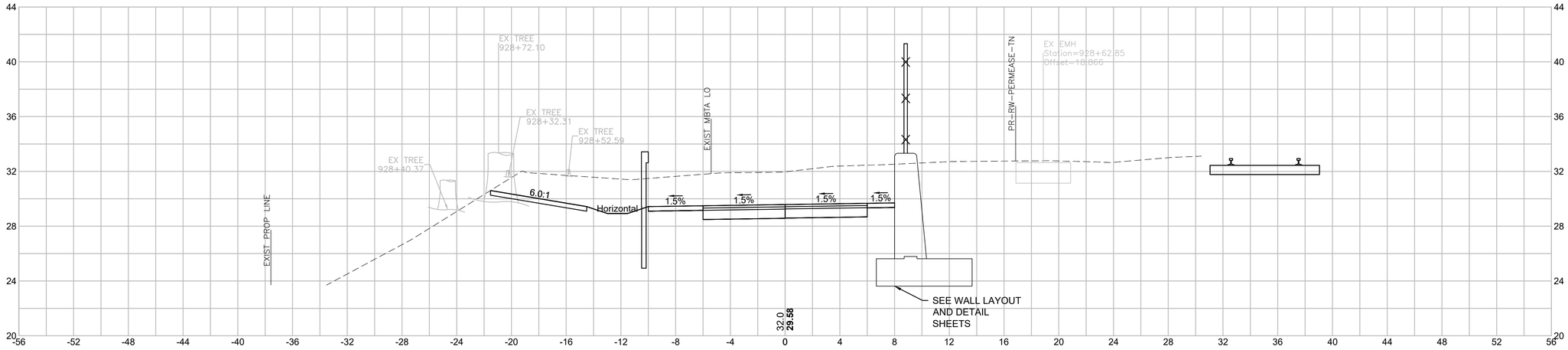
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:14 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	161	199
PROJECT FILE NO.	609204		

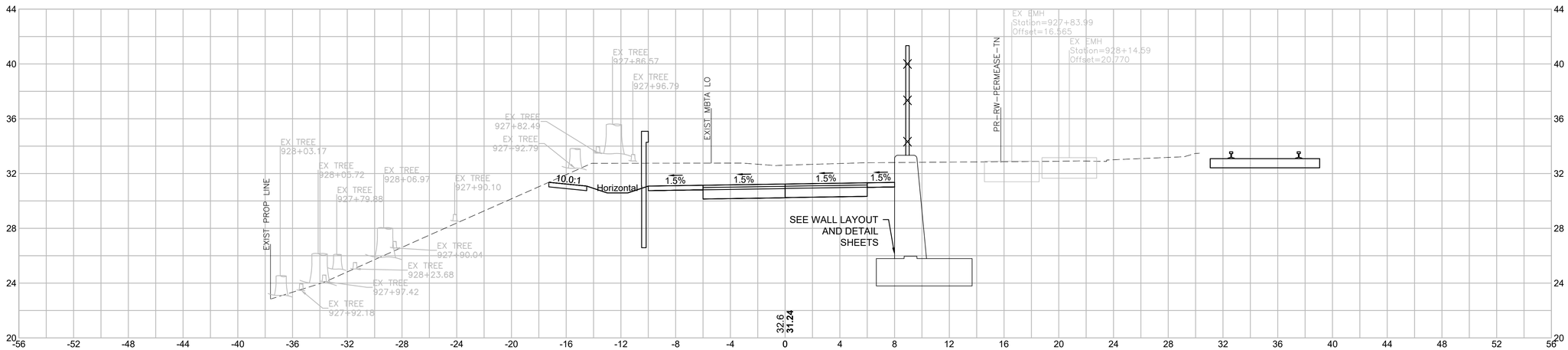
CROSS SECTIONS

928+50



EXCAVATION: 94
EMBANKMENT: 0

928+00



EXCAVATION: 58
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:15 AM

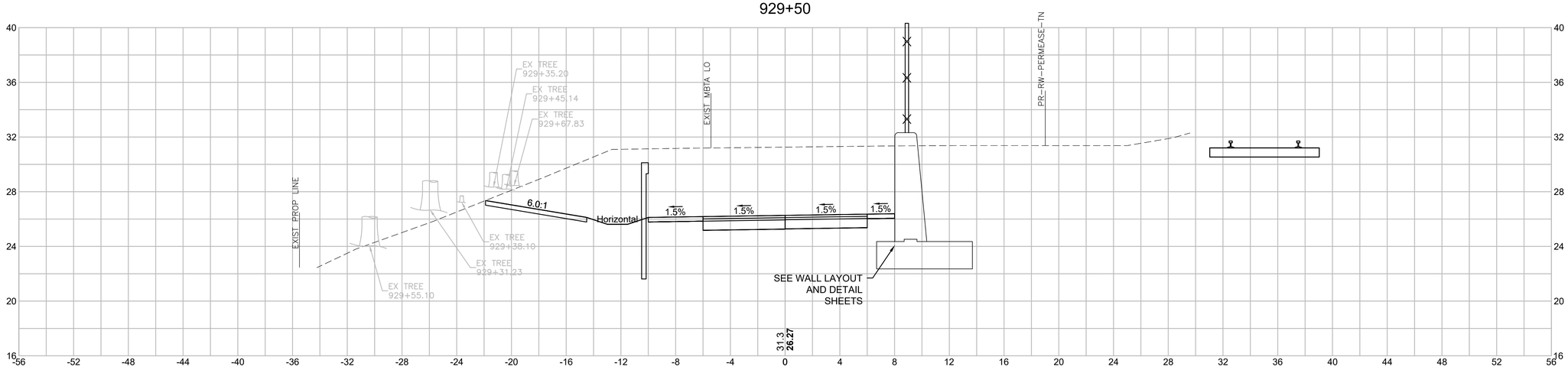
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:15 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	162	199
PROJECT FILE NO.	609204		

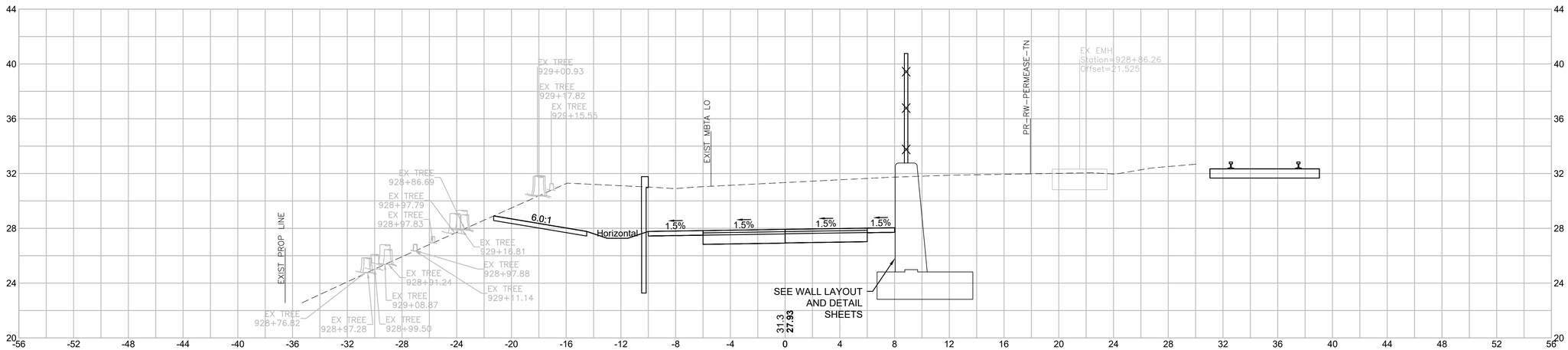
CROSS SECTIONS

929+50



EXCAVATION: 168
EMBANKMENT: 0

929+00



EXCAVATION: 122
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:15 AM

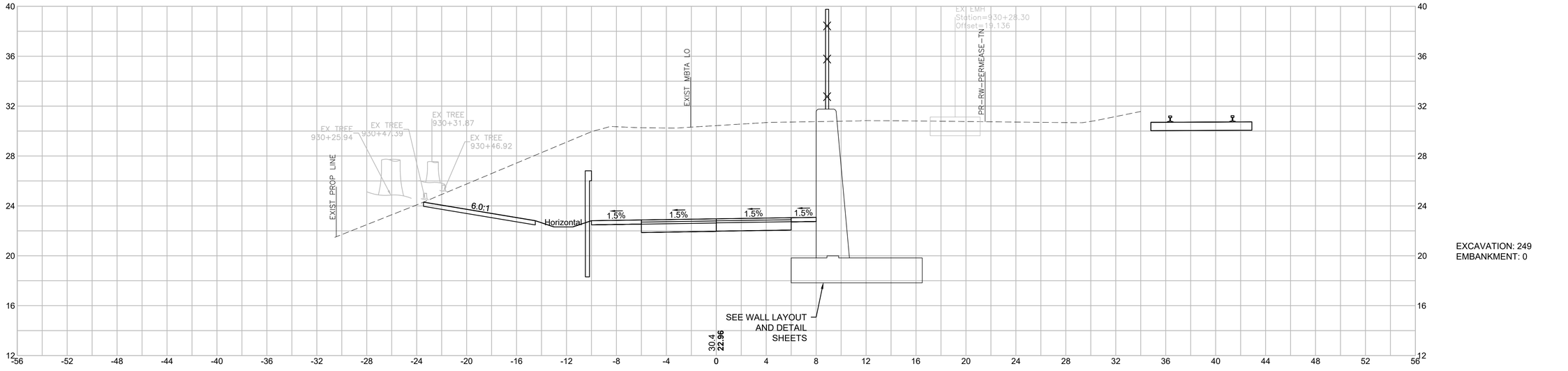
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:15 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	163	199
PROJECT FILE NO.	609204		

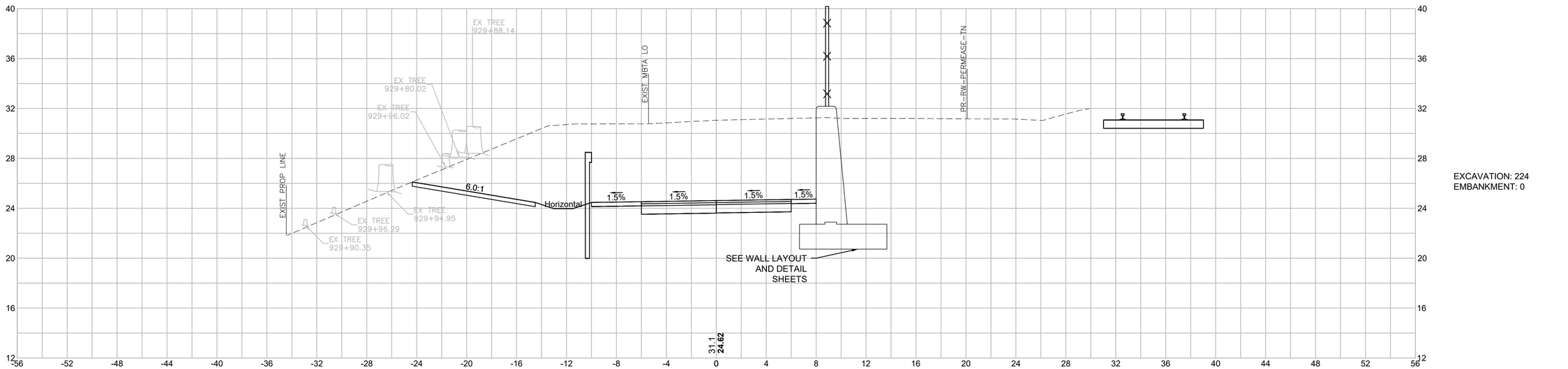
CROSS SECTIONS

930+50



EXCAVATION: 249
EMBANKMENT: 0

930+00



EXCAVATION: 224
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:15 AM

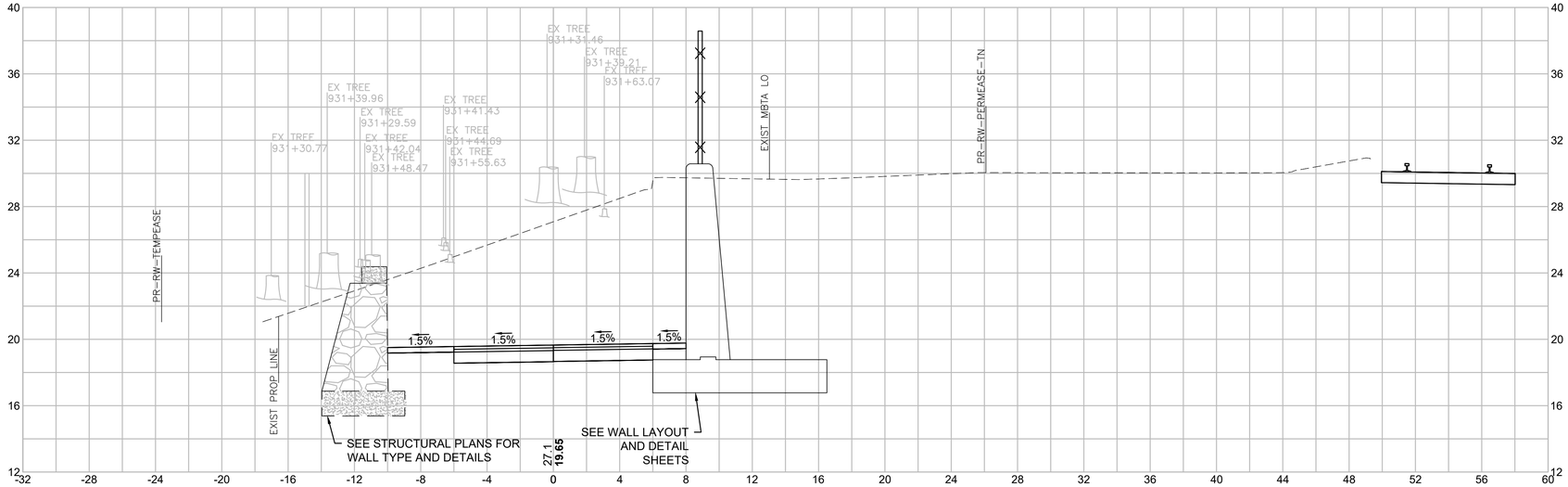
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:15 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	164	199
PROJECT FILE NO.	609204		

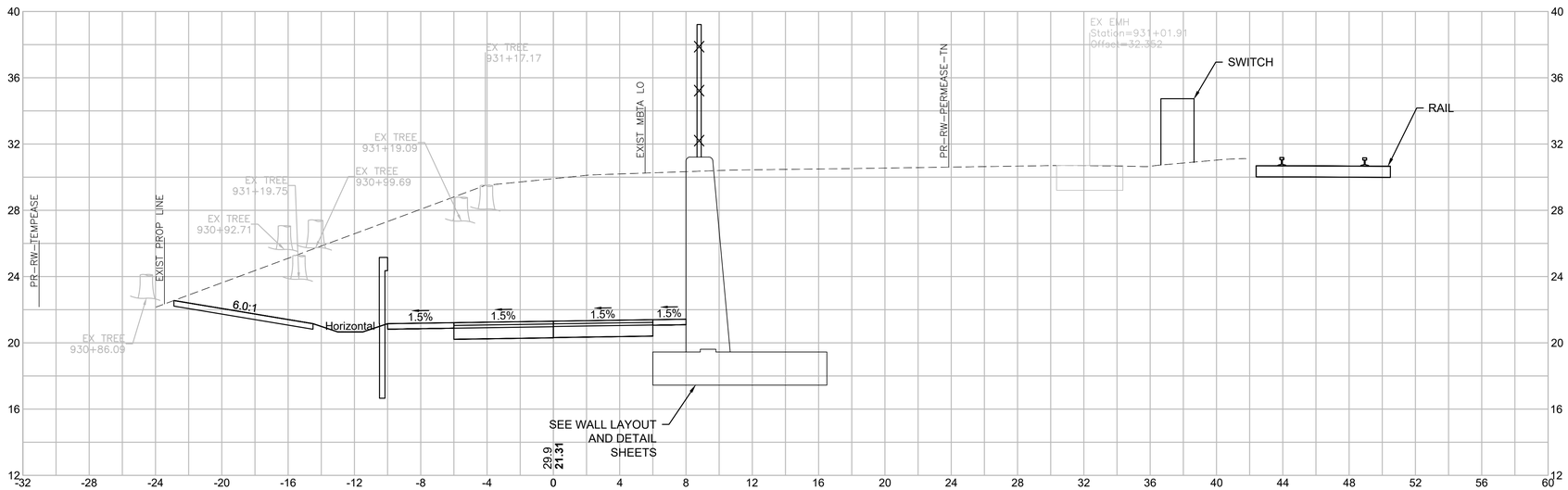
CROSS SECTIONS

931+50



EXCAVATION: 299
EMBANKMENT:0

931+00



EXCAVATION: 264
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

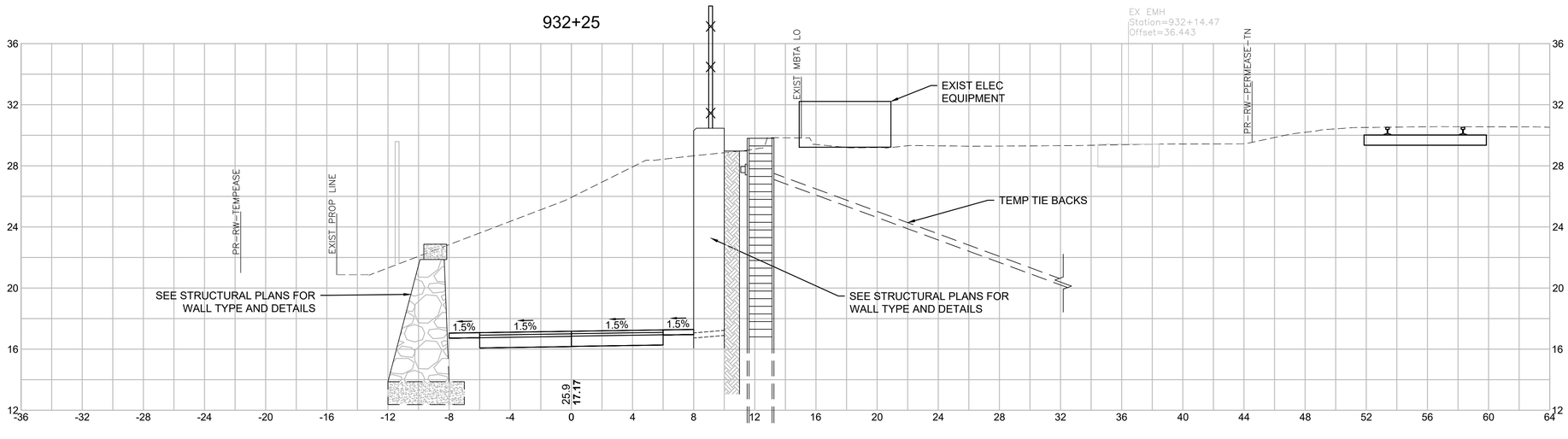
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:16 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:16 AM

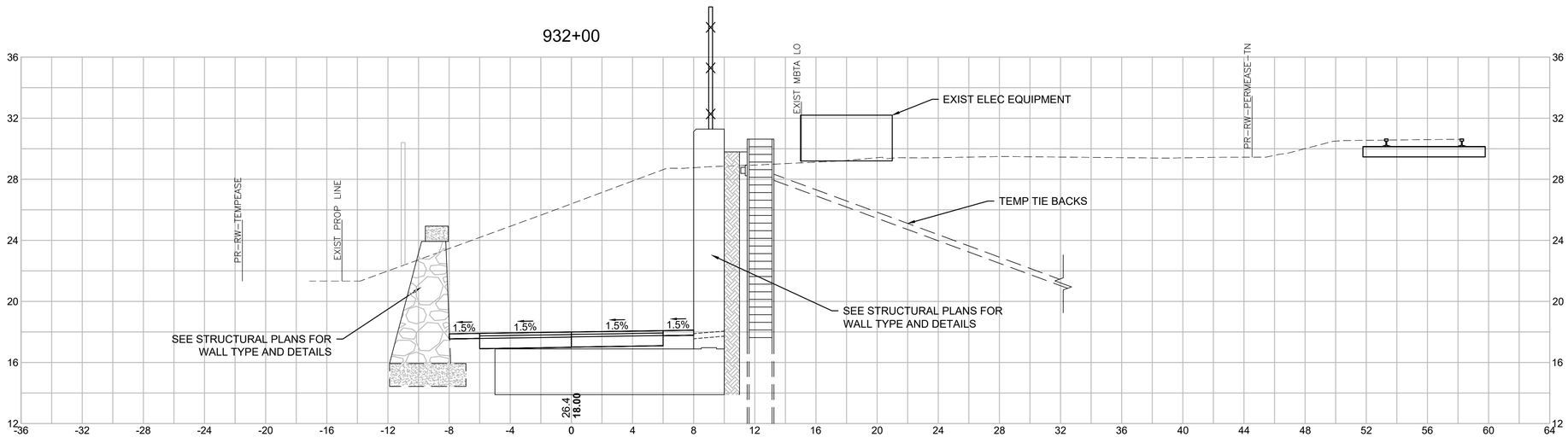
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	165	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 226
EMBANKMENT: 0



EXCAVATION: 223
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

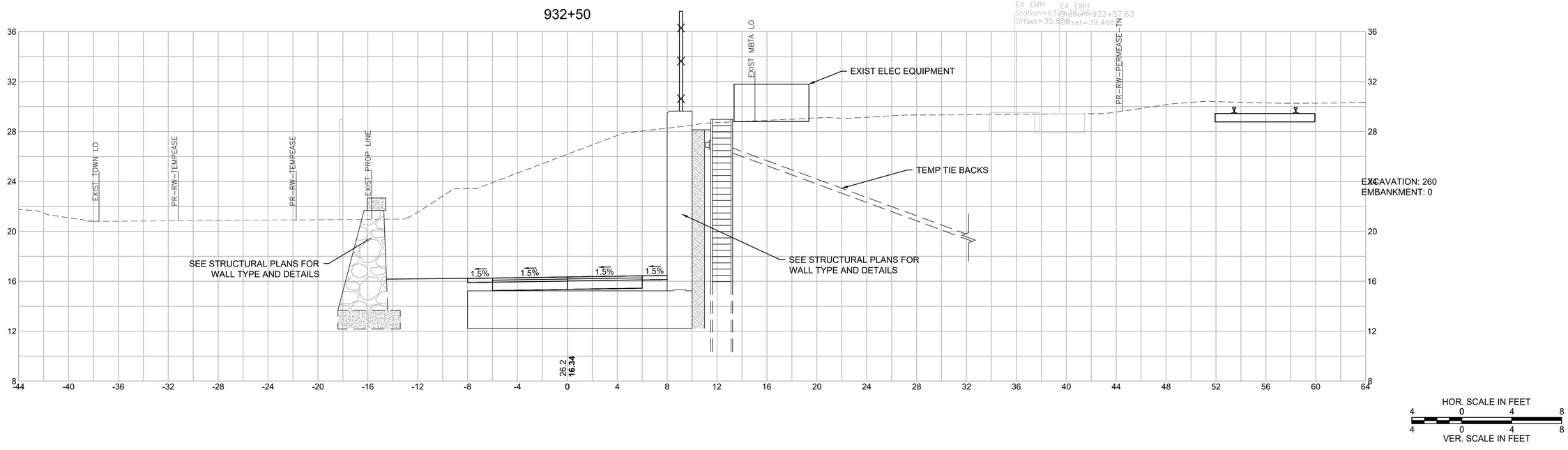
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:16 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:16 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	166	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:16 AM

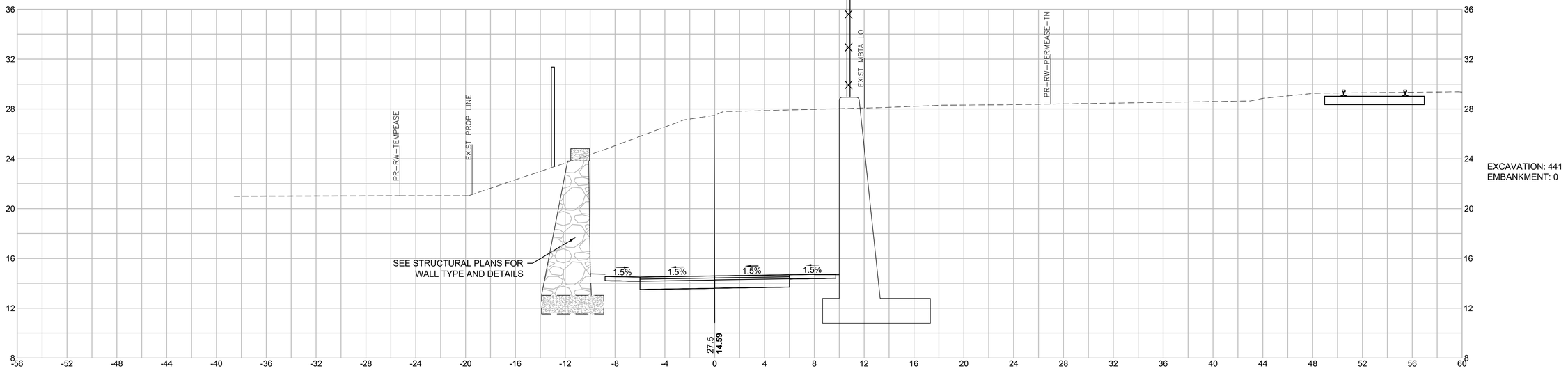
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:16 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	167	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

934+00



EXCAVATION: 441
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

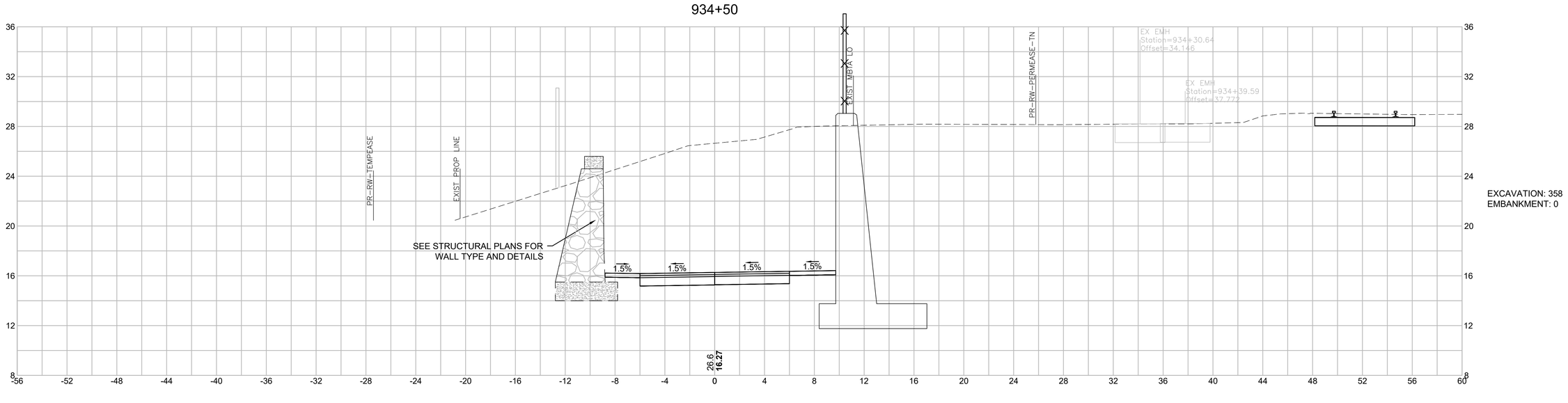
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:17 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:17 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	168	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 358
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:17 AM

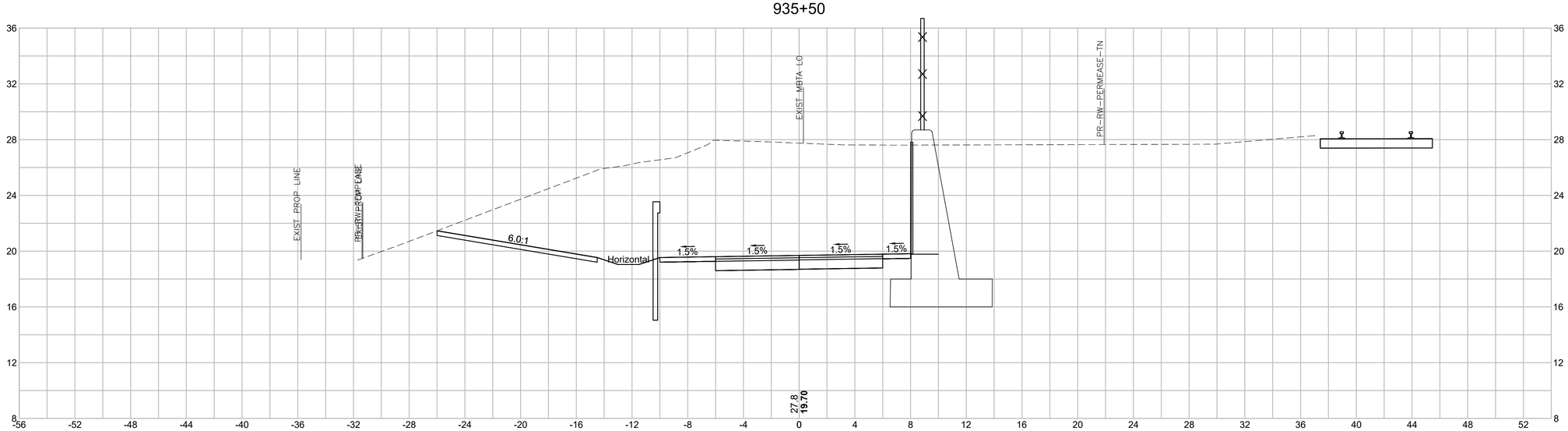
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:17 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	169	199
PROJECT FILE NO.	609204		

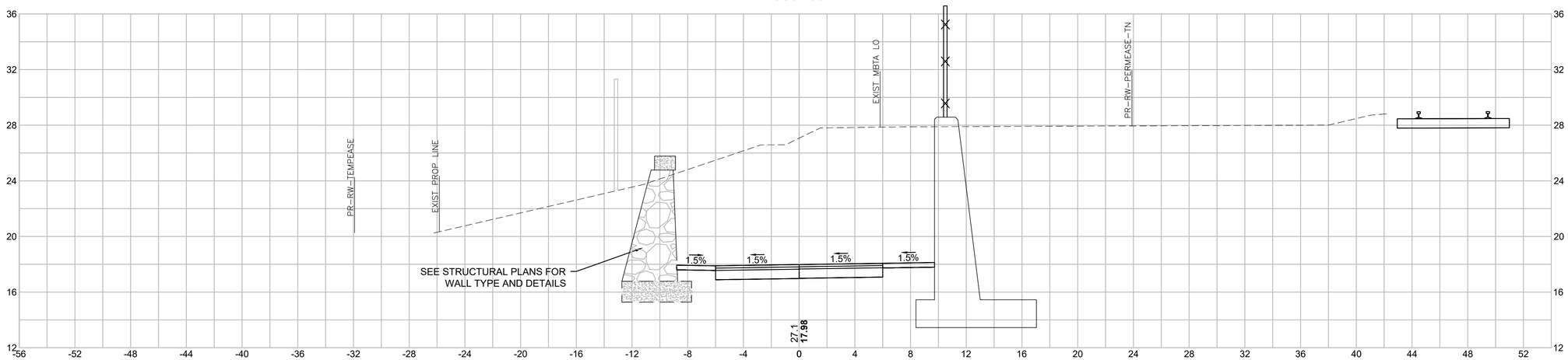
CROSS SECTIONS

935+50



EXCAVATION: 275
EMBANKMENT: 0

935+00



EXCAVATION: 299
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

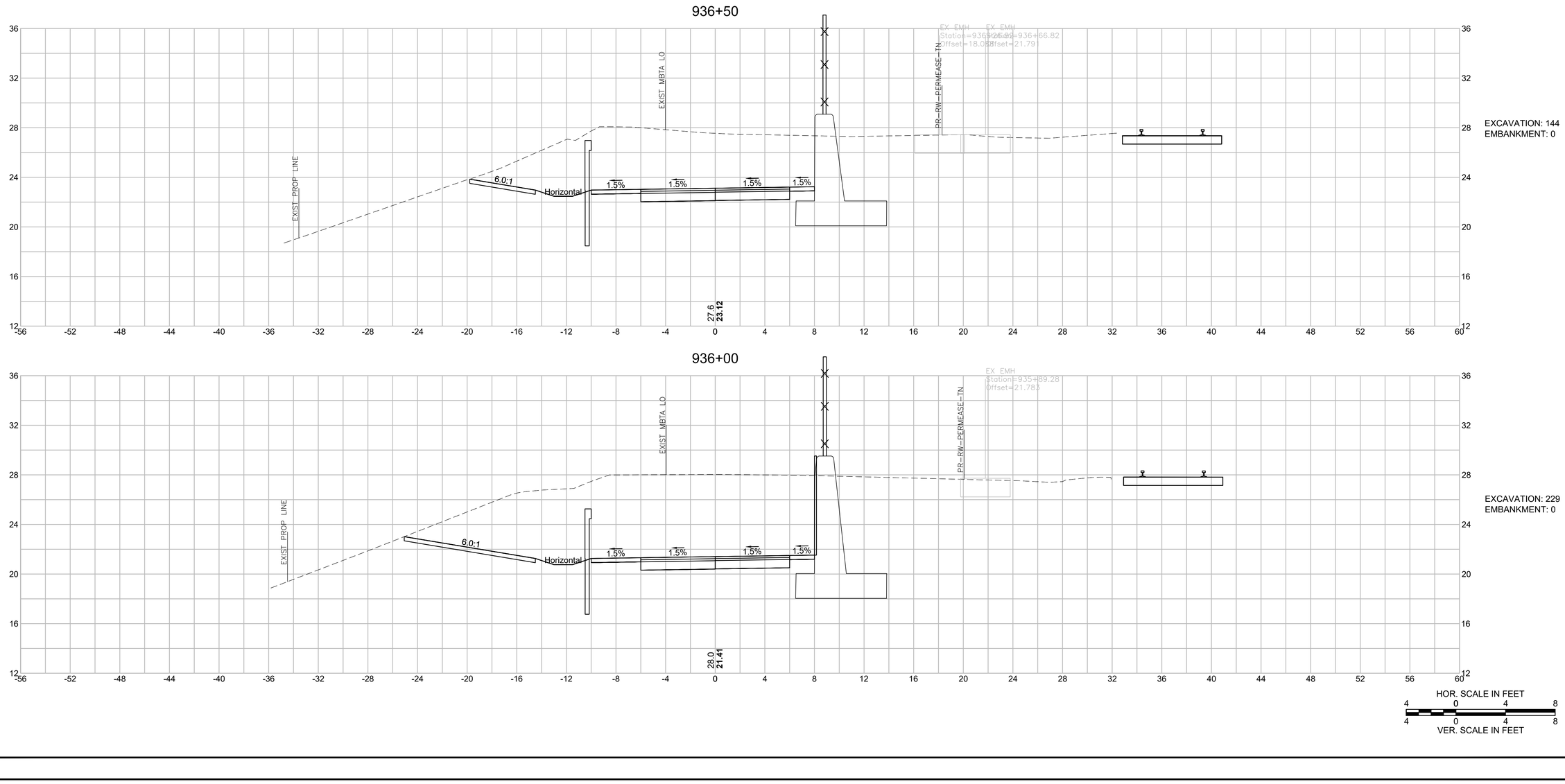
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:17 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:17 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	170	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:18 AM

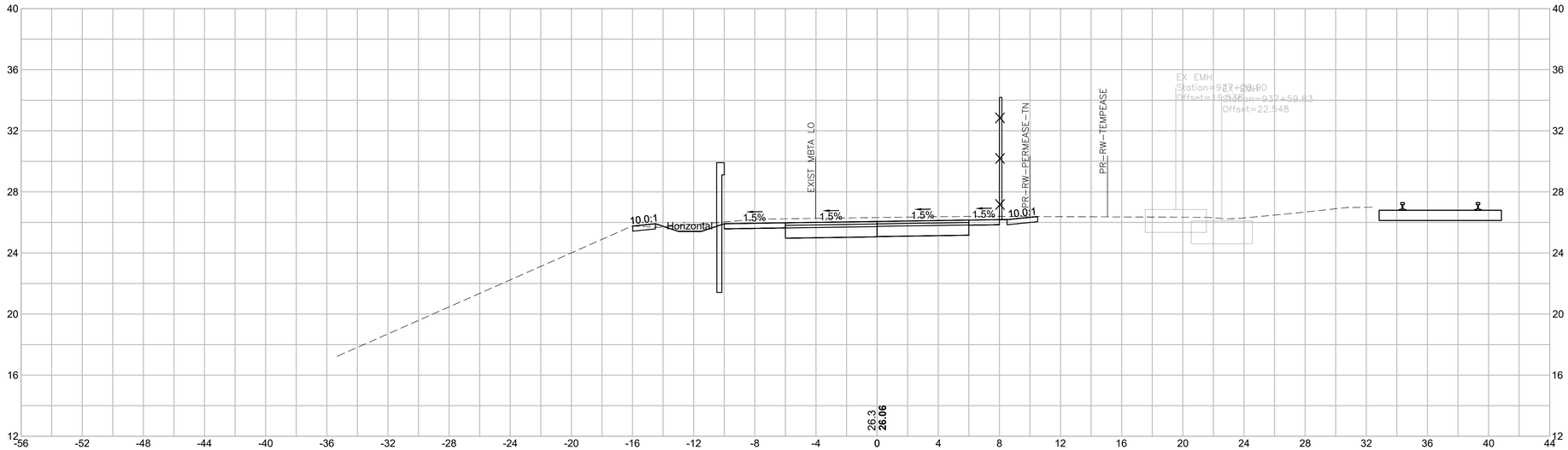
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:18 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	171	199
PROJECT FILE NO.	609204		

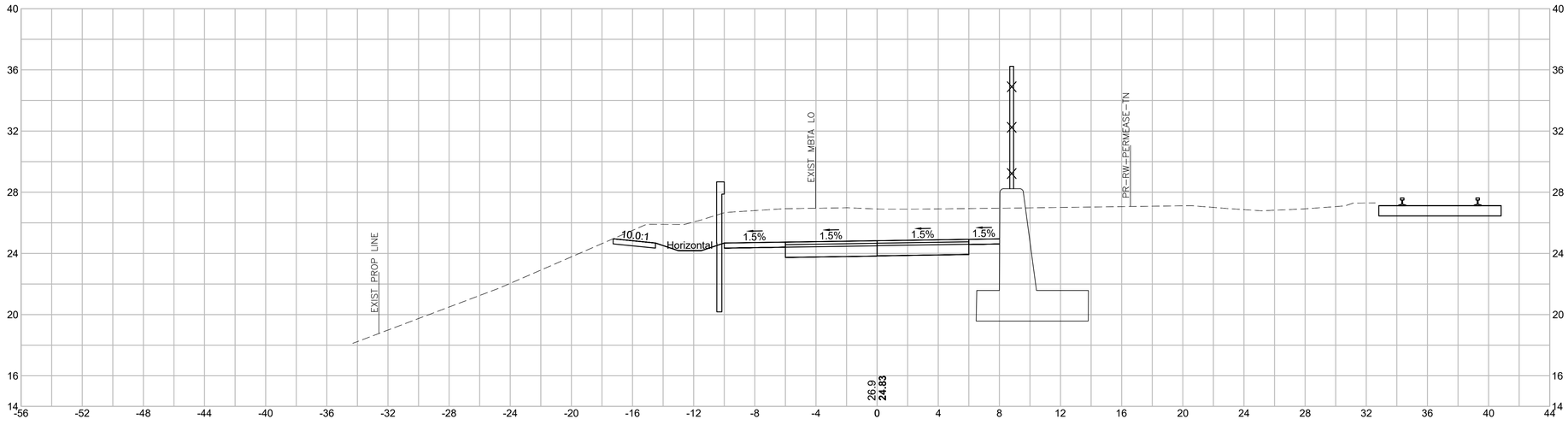
CROSS SECTIONS

937+50



EXCAVATION: 23
EMBANKMENT: 0

937+00



EXCAVATION: 71
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:18 AM

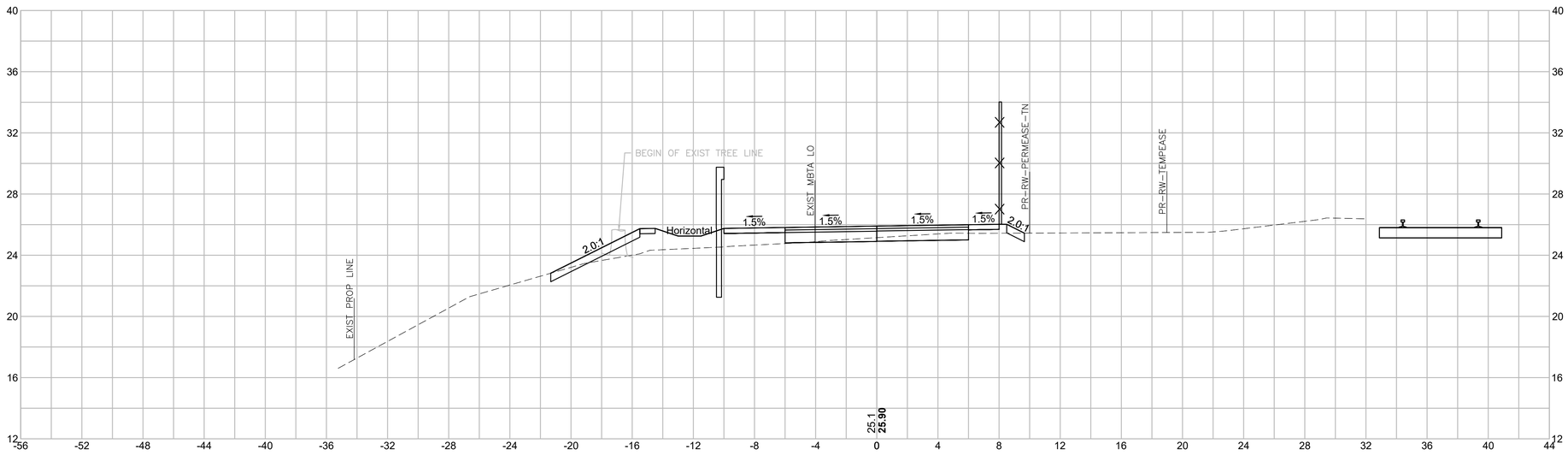
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:18 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

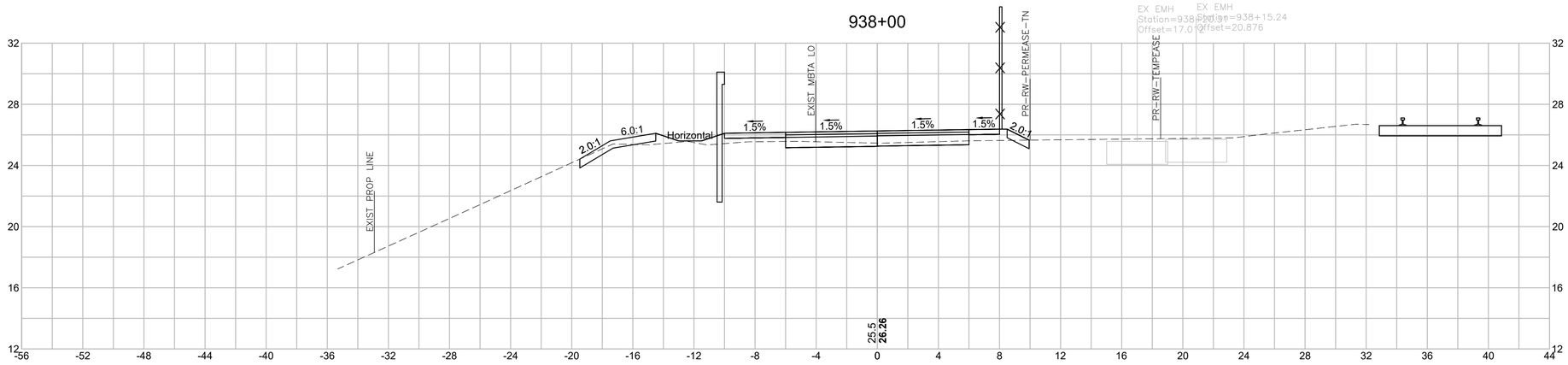
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	172	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

938+50



938+00



HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:18 AM

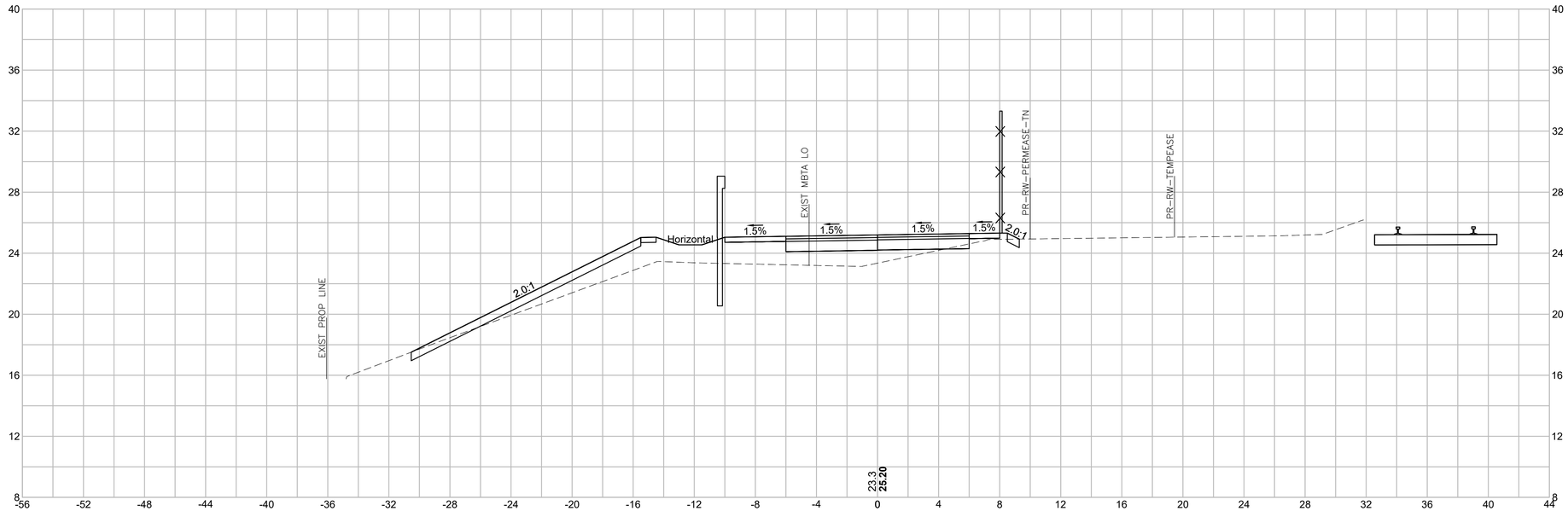
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:18 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	173	199
PROJECT FILE NO.	609204		

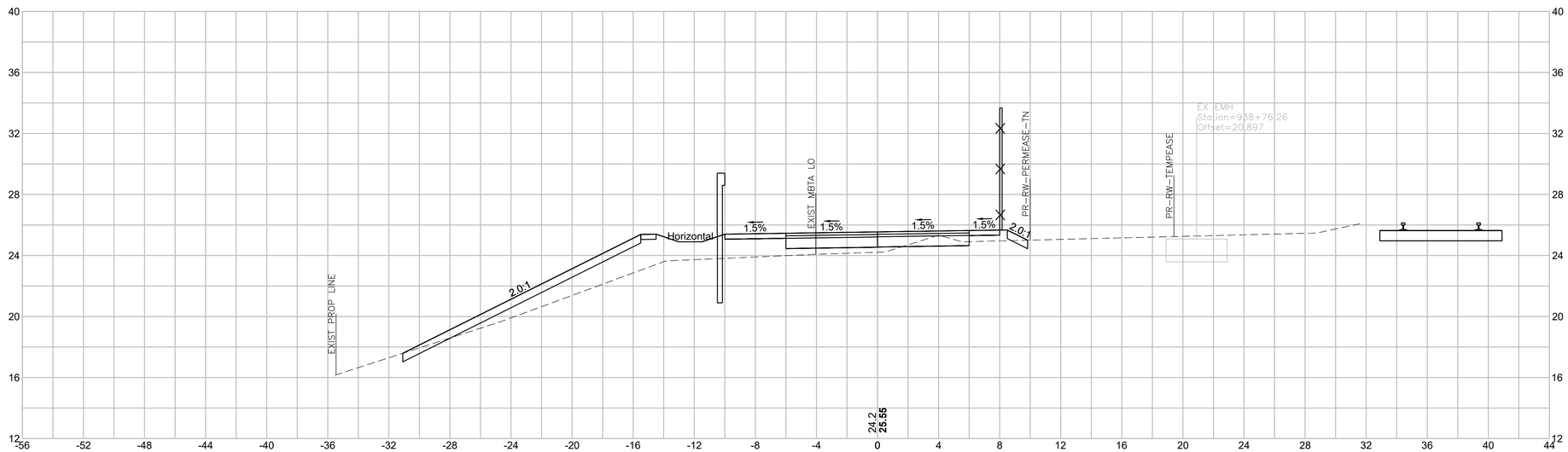
CROSS SECTIONS

939+50



EXCAVATION: 3
EMBANKMENT:28

939+00



EXCAVATION: 4
EMBANKMENT:28

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

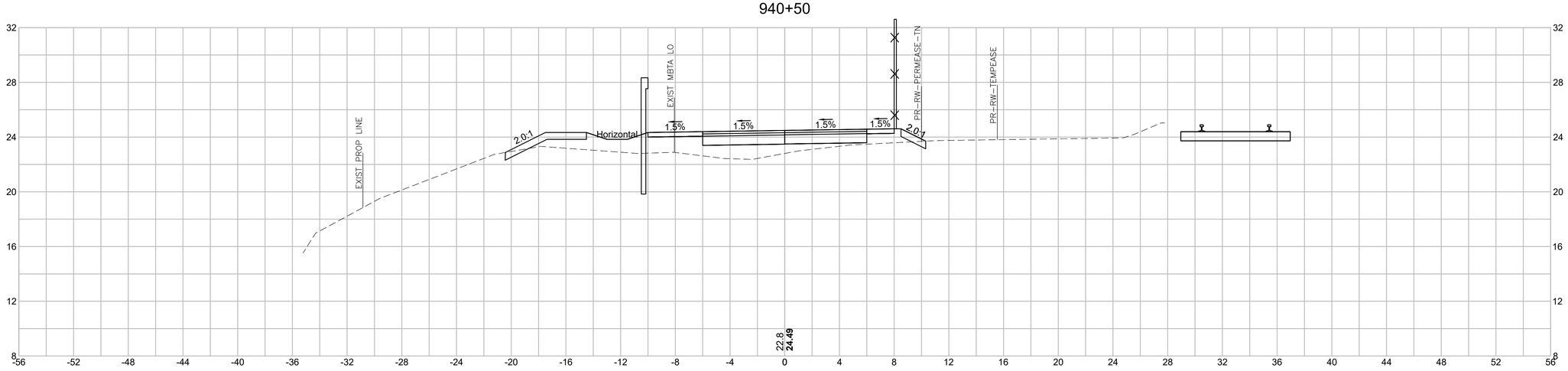
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:19 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:19 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

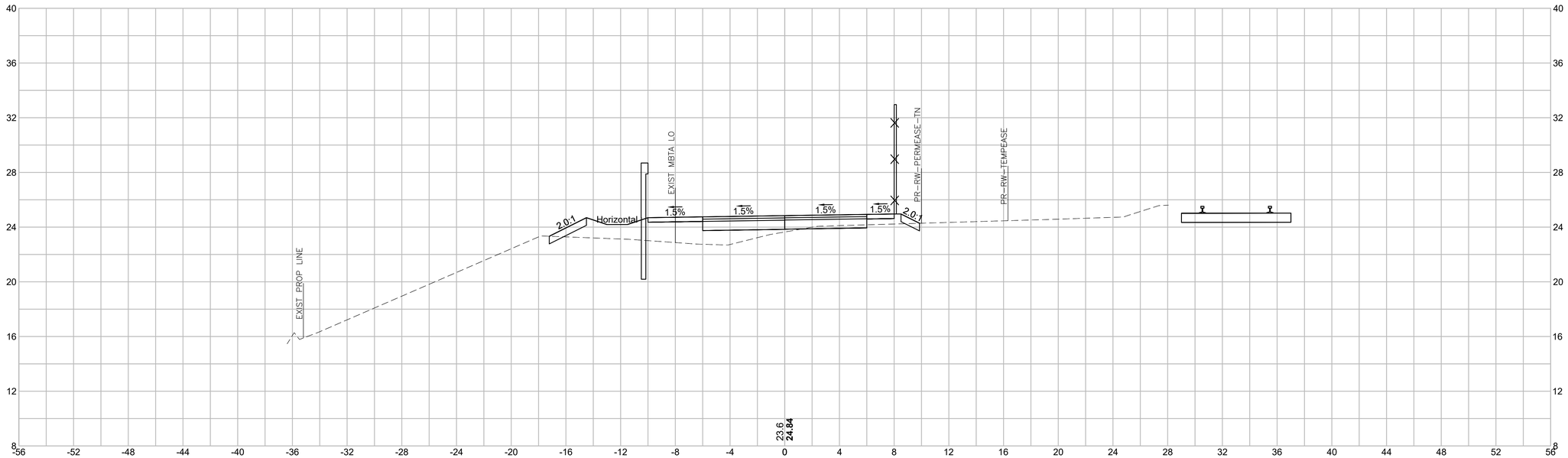
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	174	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

940+50



940+00



HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:19 AM

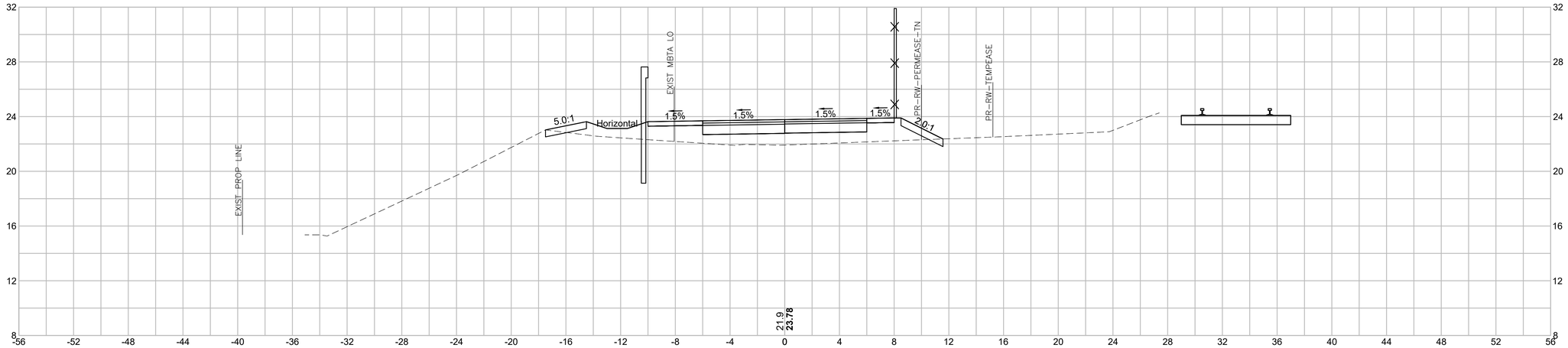
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:19 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	175	199
PROJECT FILE NO.	609204		

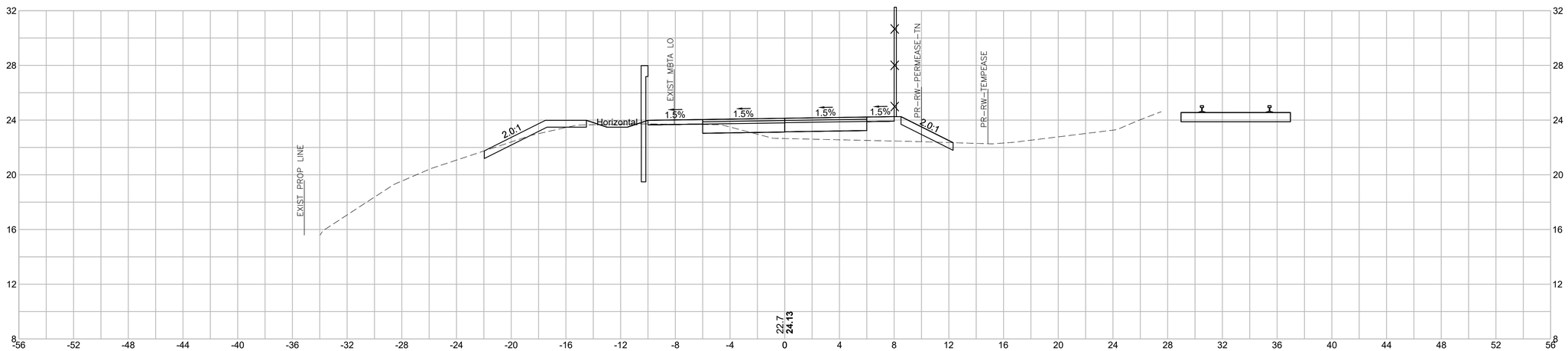
CROSS SECTIONS

941+50



EXCAVATION: 2
EMBANKMENT:22

941+00



EXCAVATION: 4
EMBANKMENT:10

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Plotted on Dec-25 12:19 AM
609204_HD\XSECT-REV).DWG

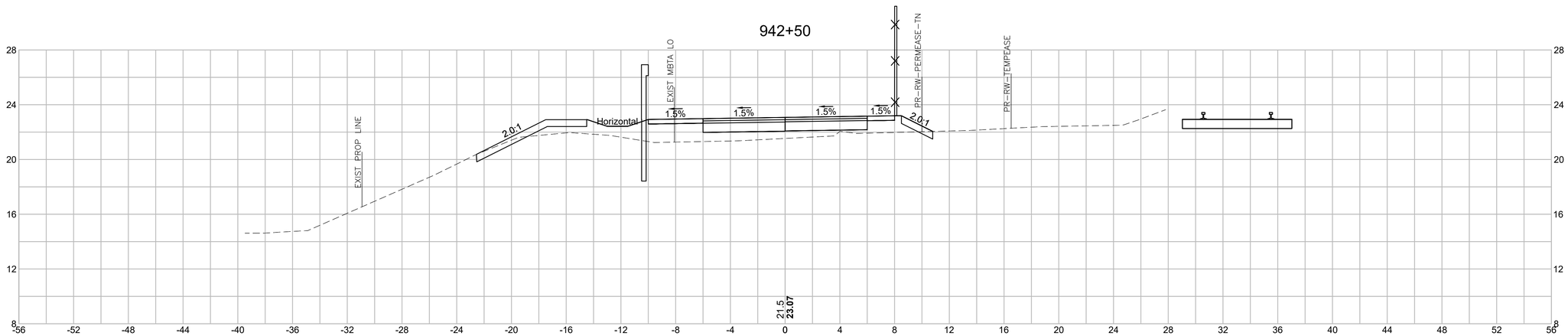
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:19 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	176	199
PROJECT FILE NO.	609204		

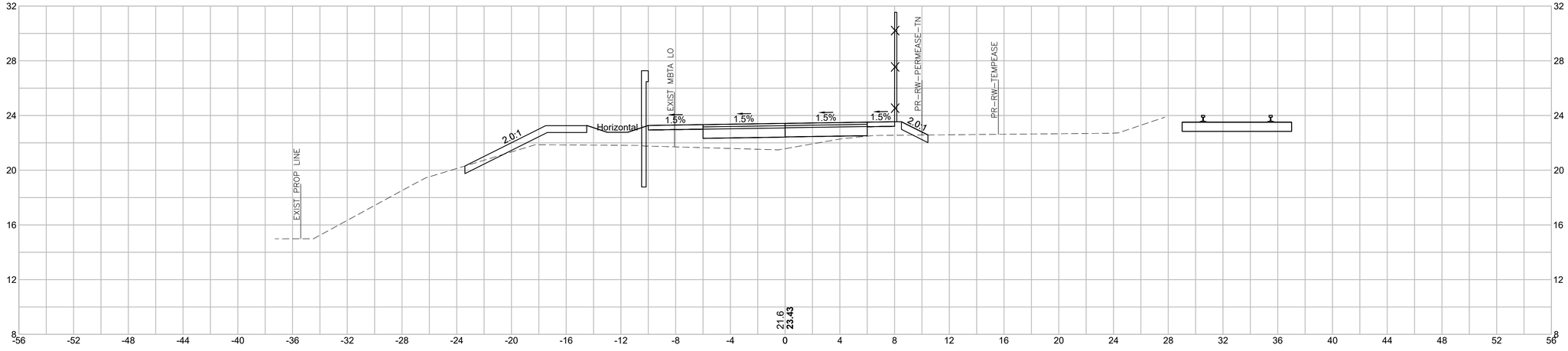
CROSS SECTIONS

942+50



EXCAVATION: 2
EMBANKMENT:19

942+00



EXCAVATION: 2
EMBANKMENT:21

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

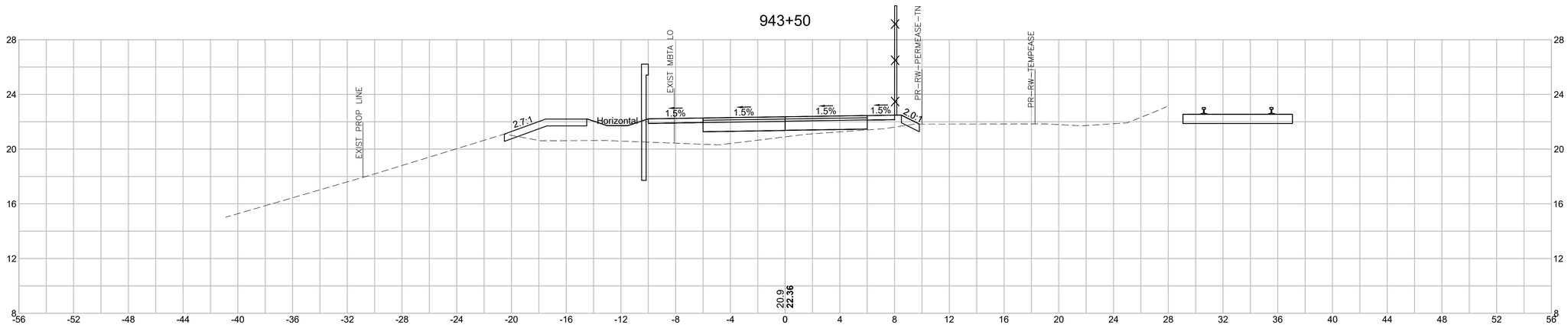
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:20 AM

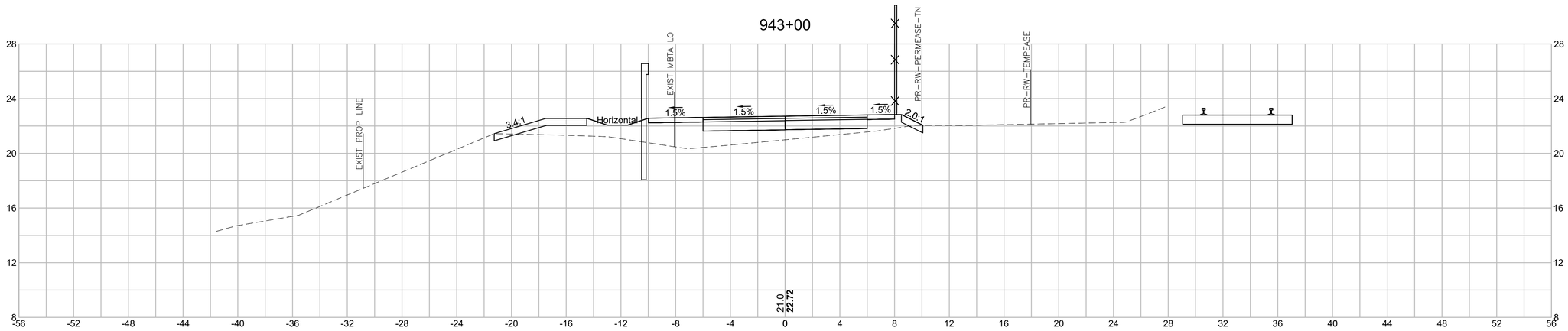
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:20 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	177	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



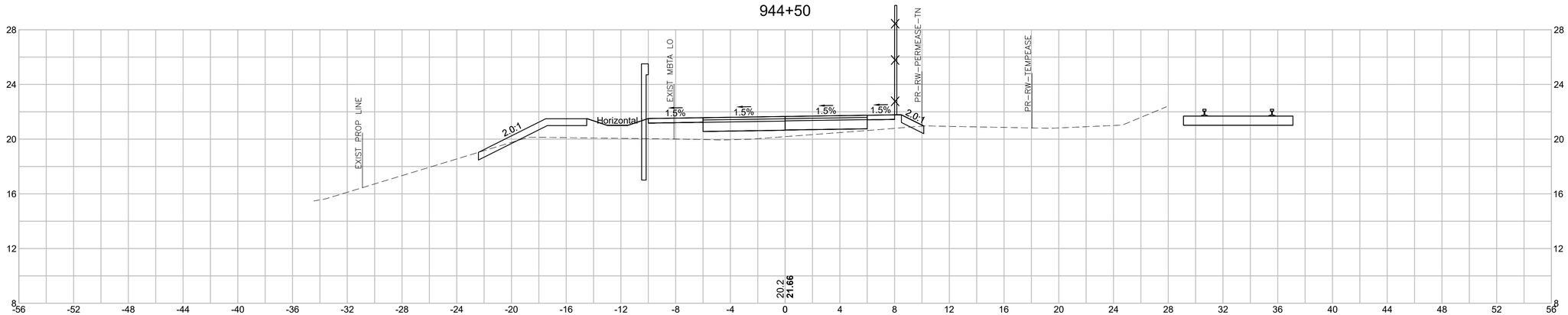


Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:20 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:20 AM

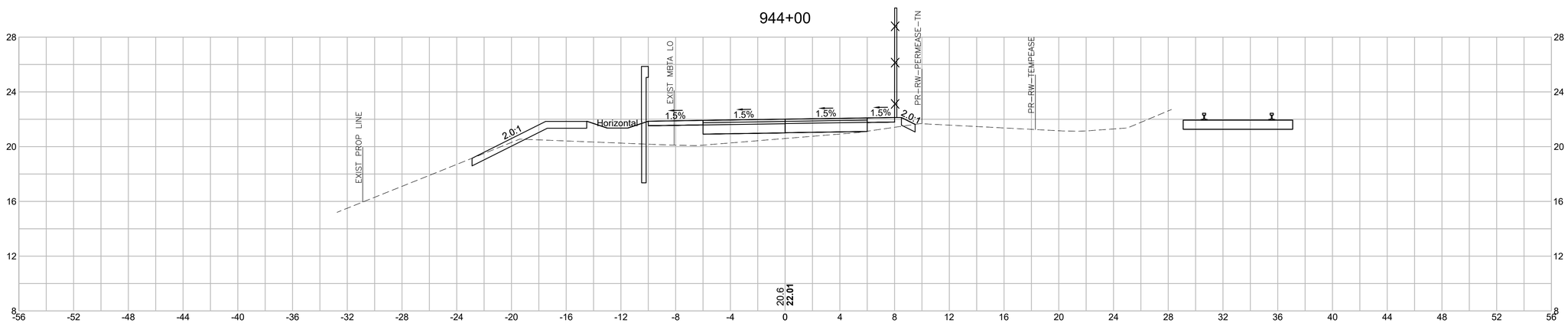
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	178	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 2
EMBANKMENT: 19



EXCAVATION: 1
EMBANKMENT:19

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:20 AM

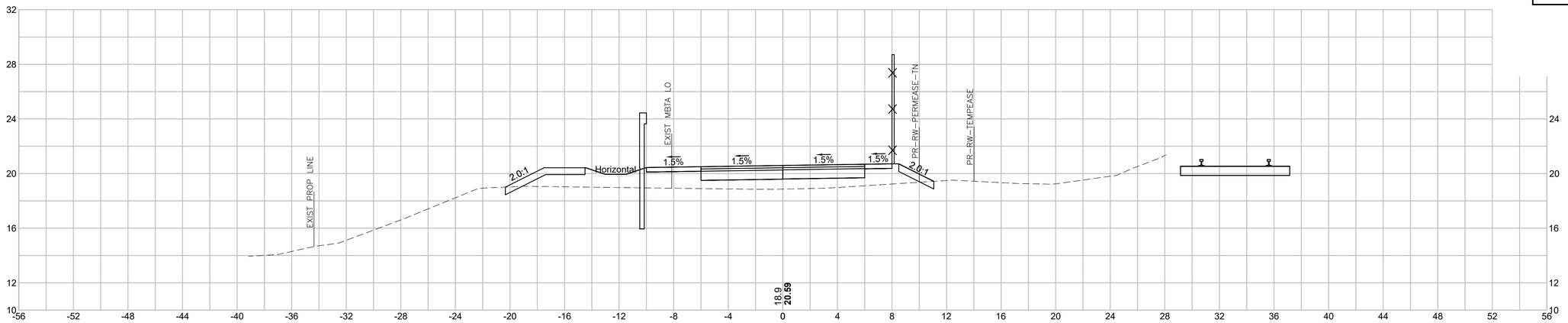
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:20 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	179	199
PROJECT FILE NO.	609204		

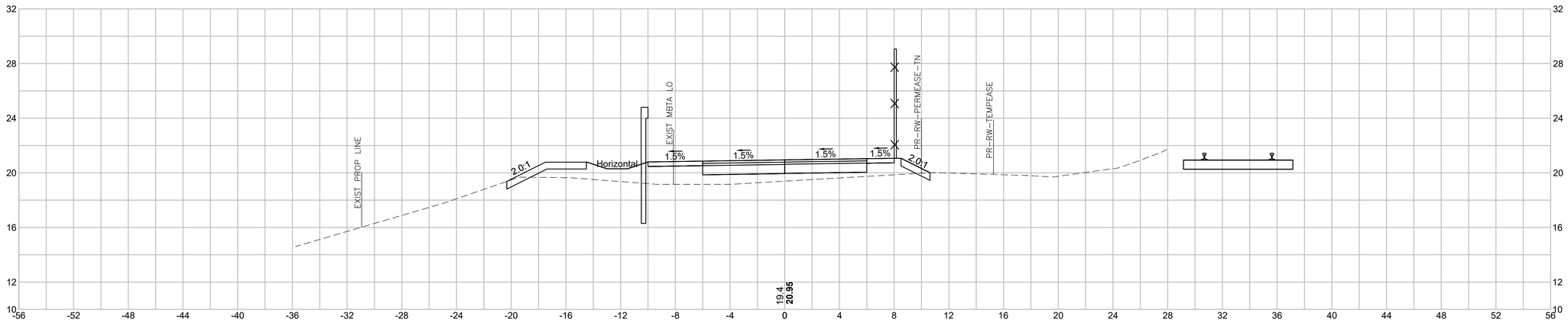
CROSS SECTIONS

946+00



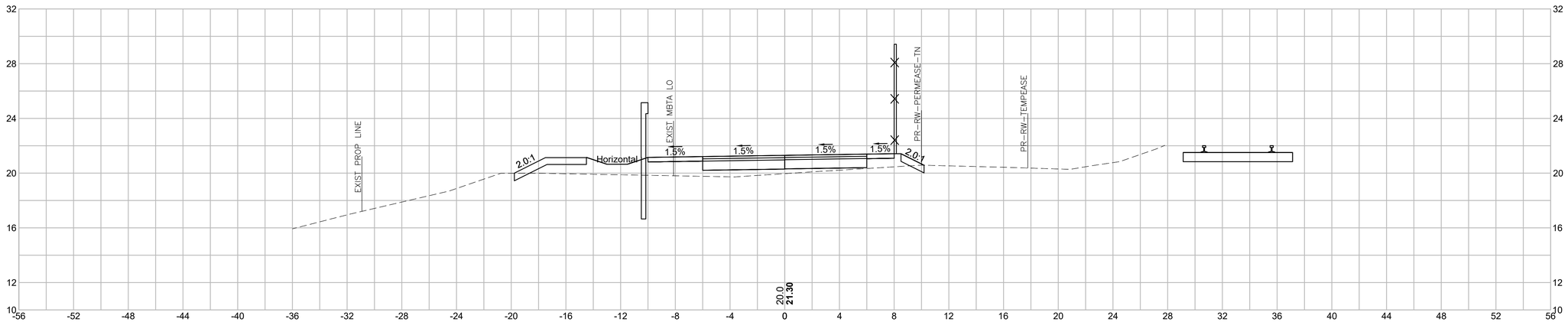
EXCAVATION: 2
EMBANKMENT:23

945+50



EXCAVATION: 2
EMBANKMENT: 20

945+00



EXCAVATION: 2
EMBANKMENT15

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

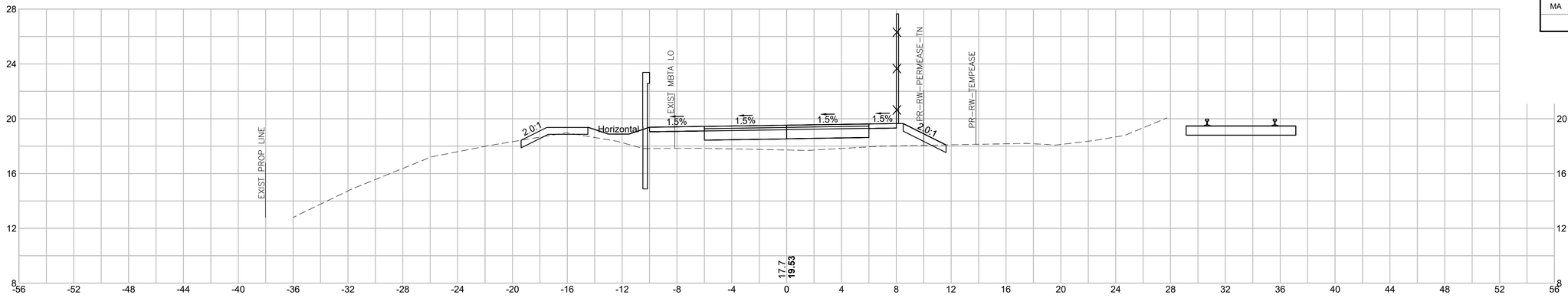
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:21 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:21 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	180	199
PROJECT FILE NO.	609204		

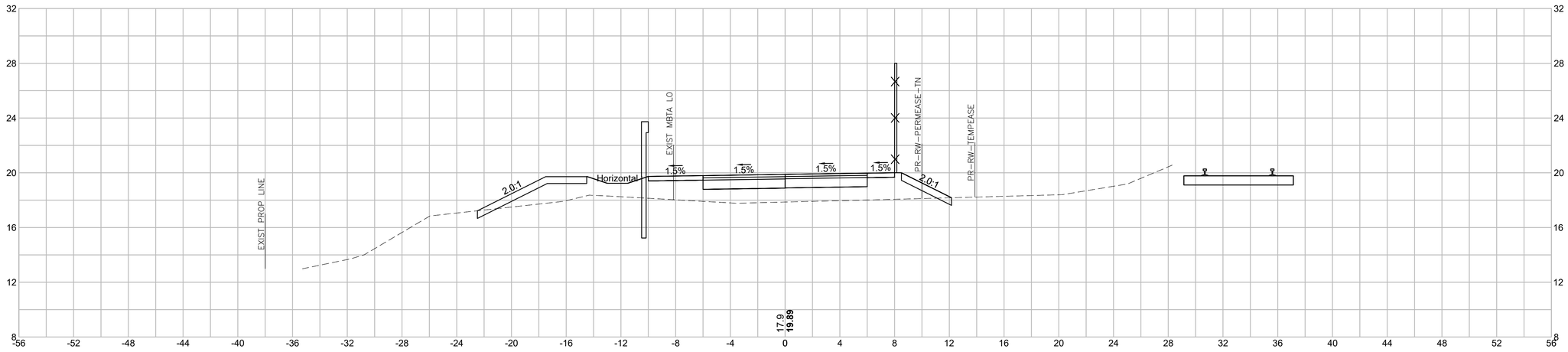
CROSS SECTIONS

947+50



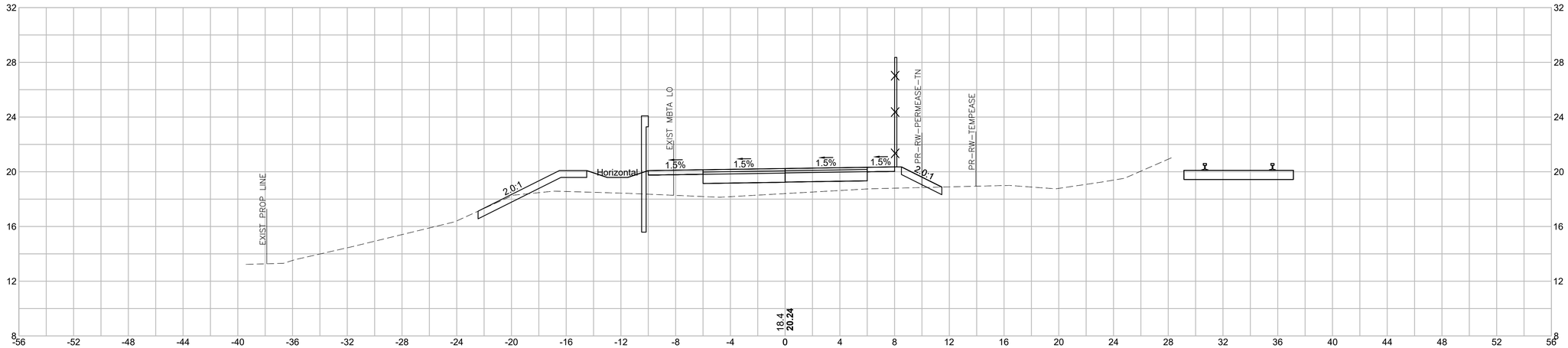
EXCAVATION: 2
EMBANKMENT:20

947+00



EXCAVATION: 2
EMBANKMENT:31

946+50



EXCAVATION: 2
EMBANKMENT:28

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:21 AM

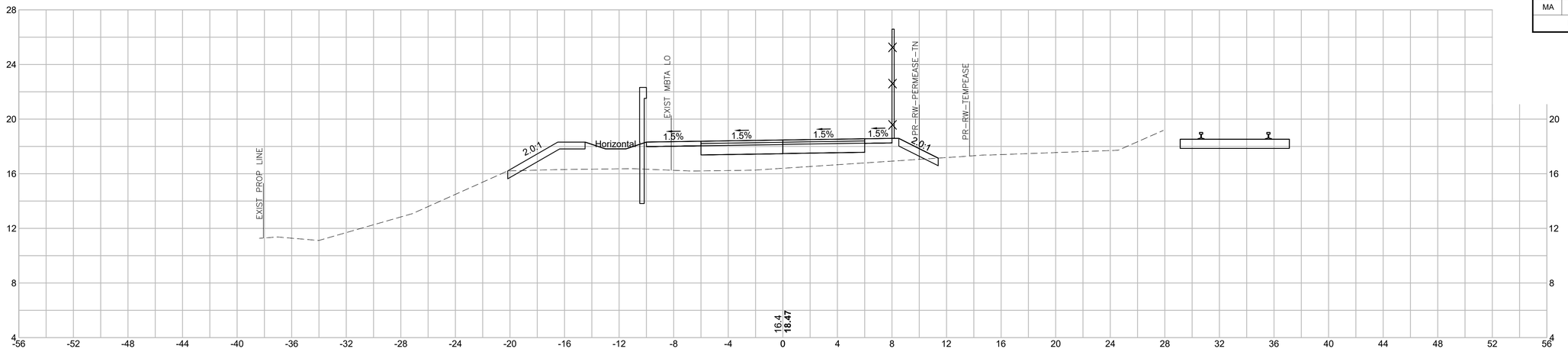
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:21 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	181	199
PROJECT FILE NO.	609204		

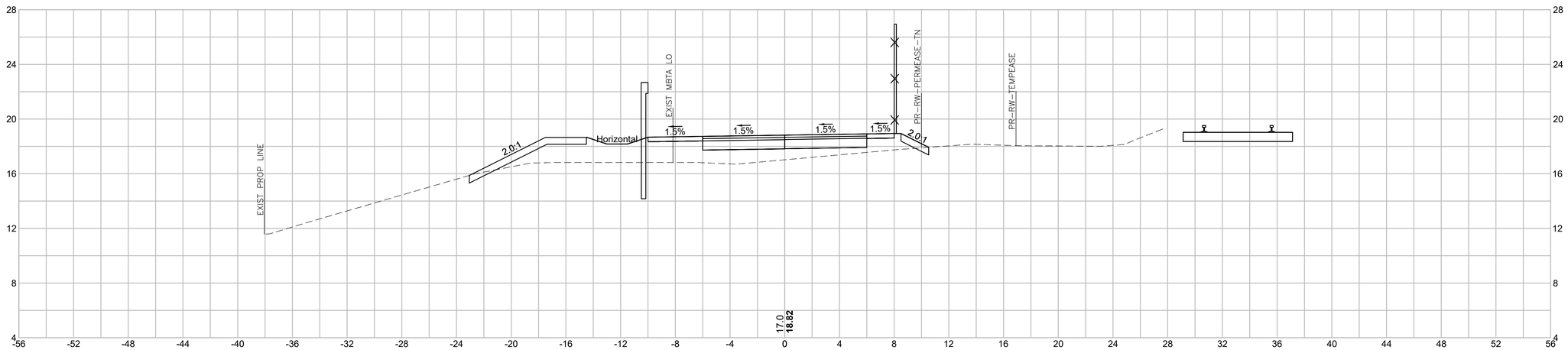
CROSS SECTIONS

949+00



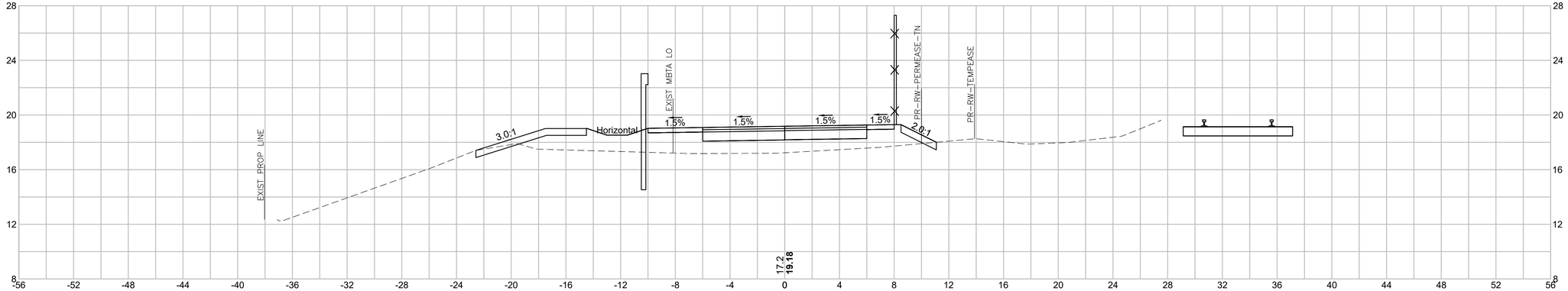
EXCAVATION: 1
EMBANKMENT:35

948+50



EXCAVATION: 2
EMBANKMENT:28

948+00



EXCAVATION: 1
EMBANKMENT:29

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

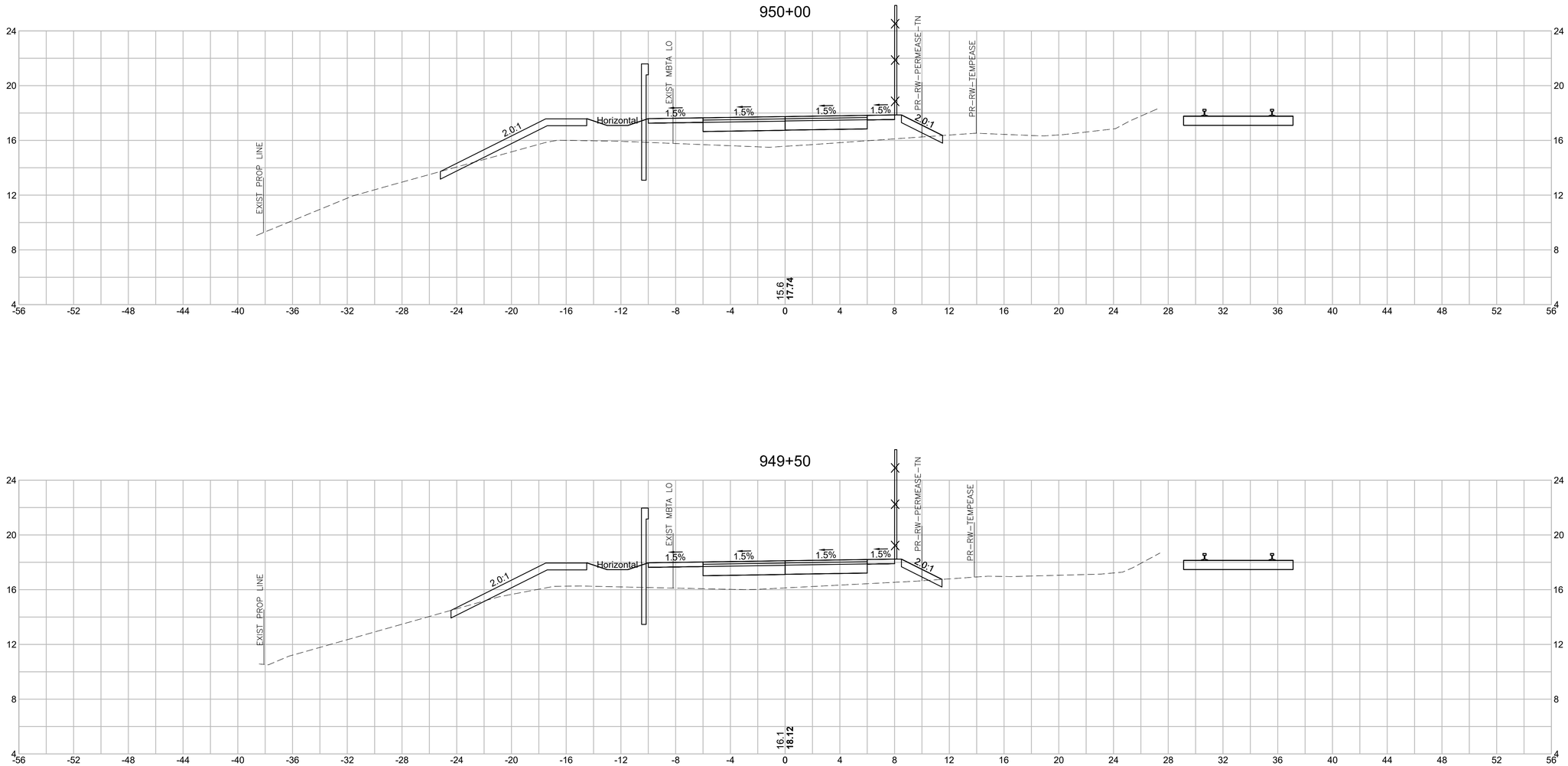
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:21 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:21 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	182	199
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 2
EMBANKMENT:32

EXCAVATION: 2
EMBANKMENT:31

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:21 AM

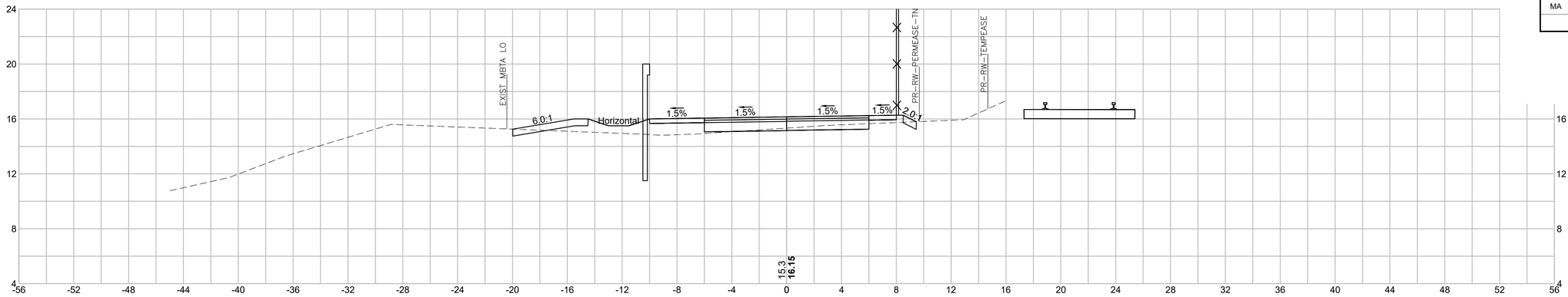
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:21 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	183	199
PROJECT FILE NO.	609204		

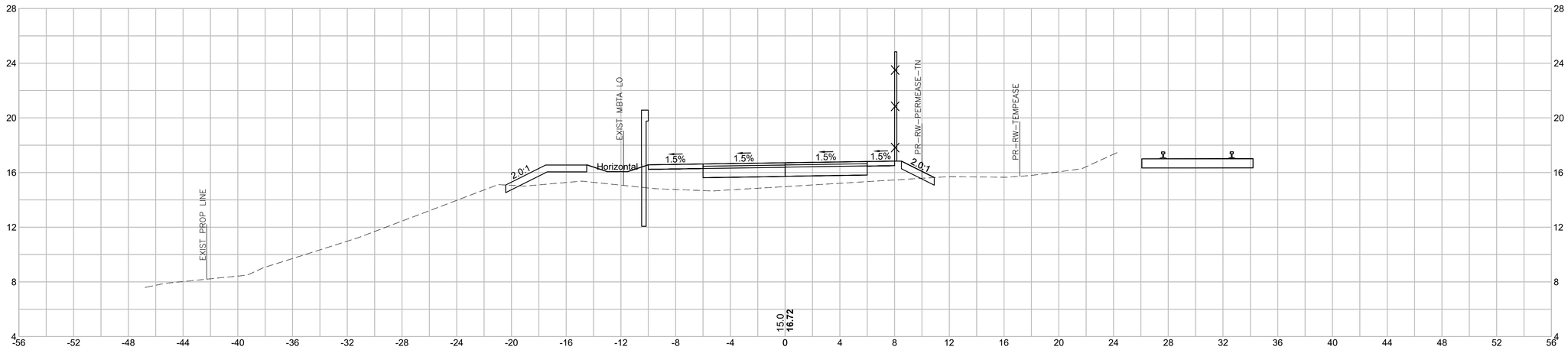
CROSS SECTIONS

951+50



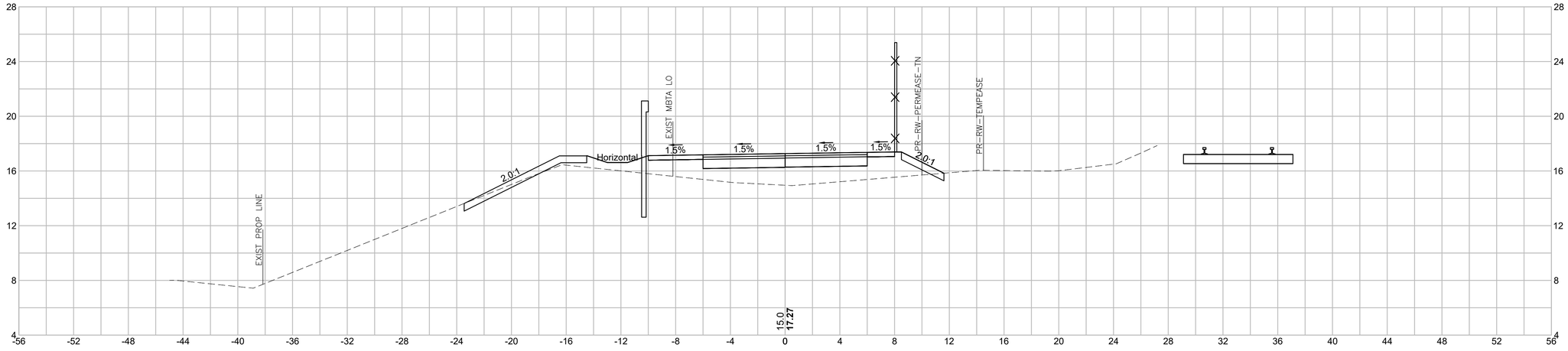
EXCAVATION: 4
EMBANKMENT:9

951+00



EXCAVATION: 2
EMBANKMENT:25

950+50



EXCAVATION: 2
EMBANKMENT:28

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:22 AM

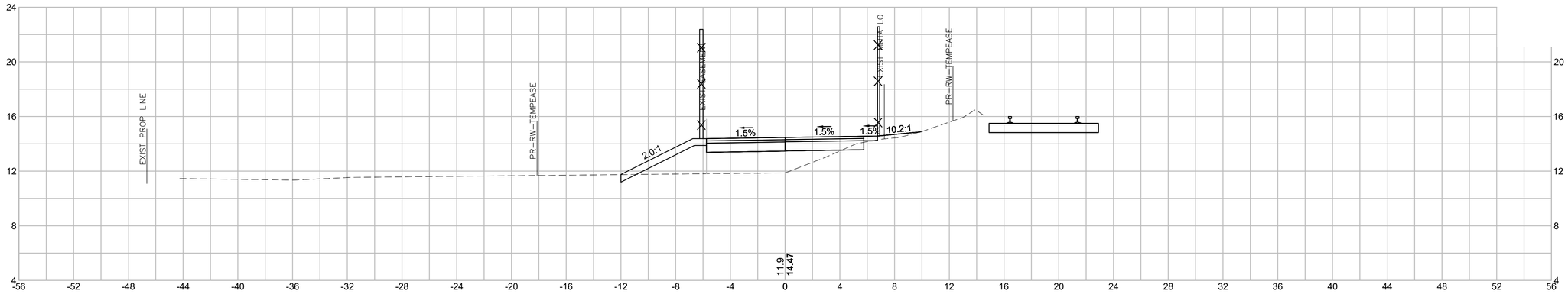
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	184	199
PROJECT FILE NO.	609204		

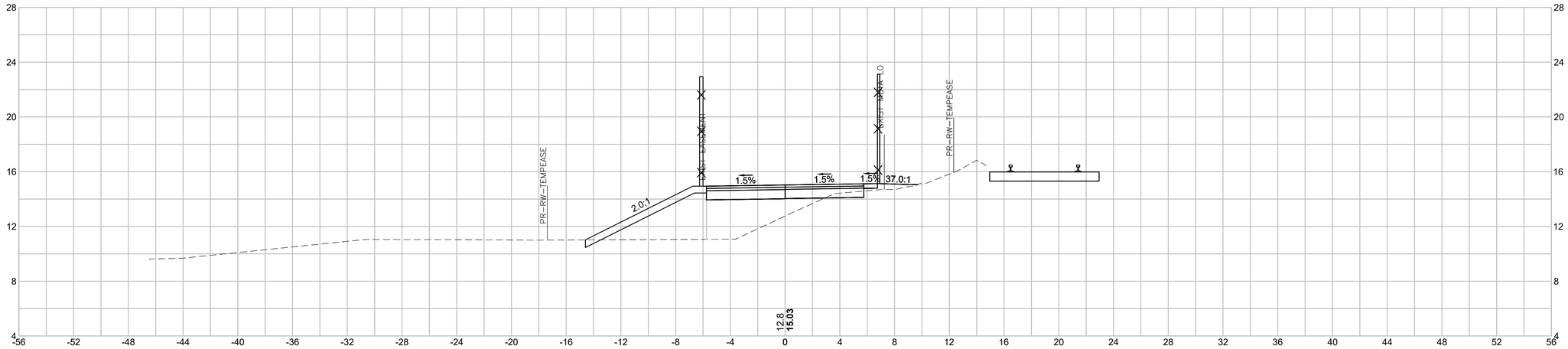
CROSS SECTIONS

953+00



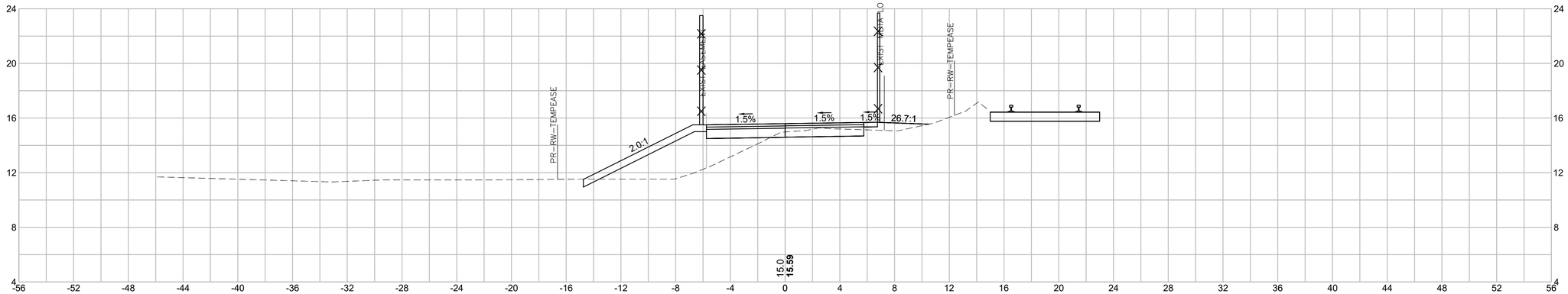
EXCAVATION: 7
EMBANKMENT:1

952+50



EXCAVATION: 10
EMBANKMENT:1

952+00



EXCAVATION: 9
EMBANKMENT:1

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:22 AM

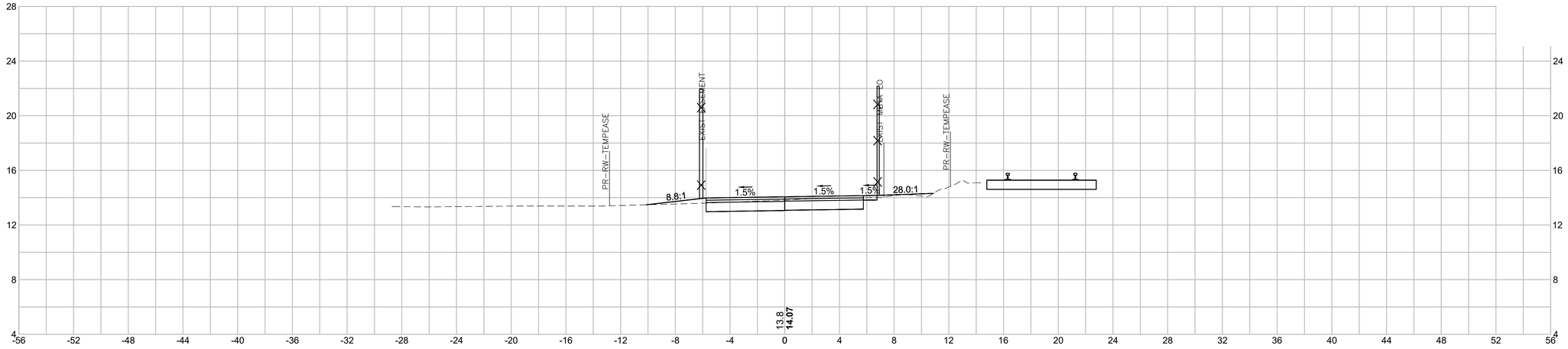
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	185	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

954+50



EXCAVATION: 11
EMBANKMENT:1

954+00

EXCAVATION: 11
EMBANKMENT:2

953+50

EXCAVATION: 12
EMBANKMENT:3

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:22 AM

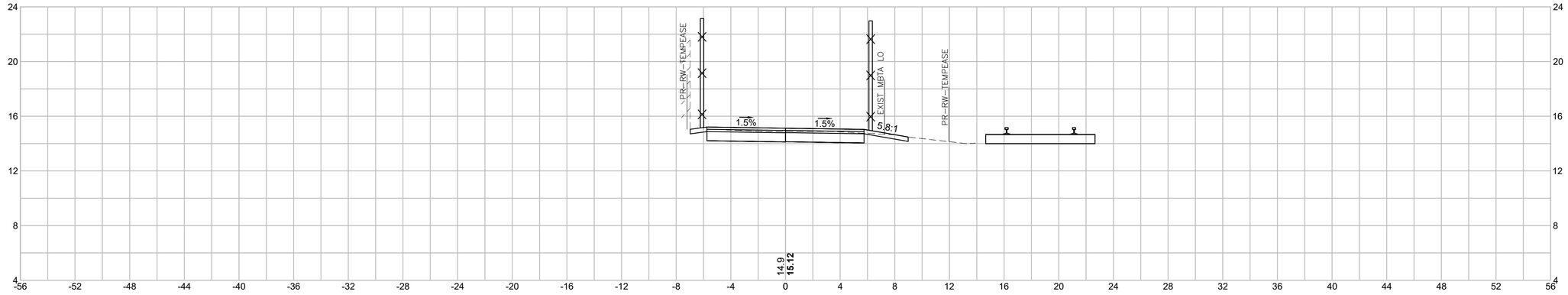
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	186	199
PROJECT FILE NO.	609204		

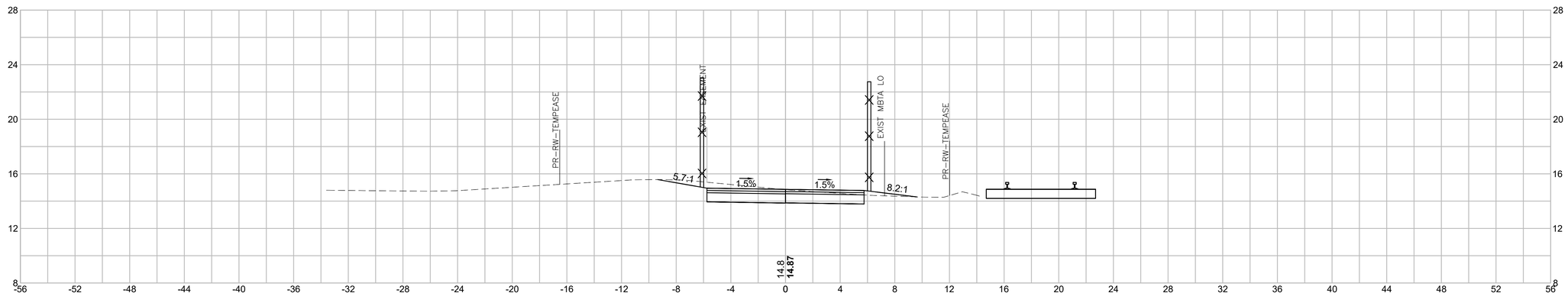
CROSS SECTIONS

956+00



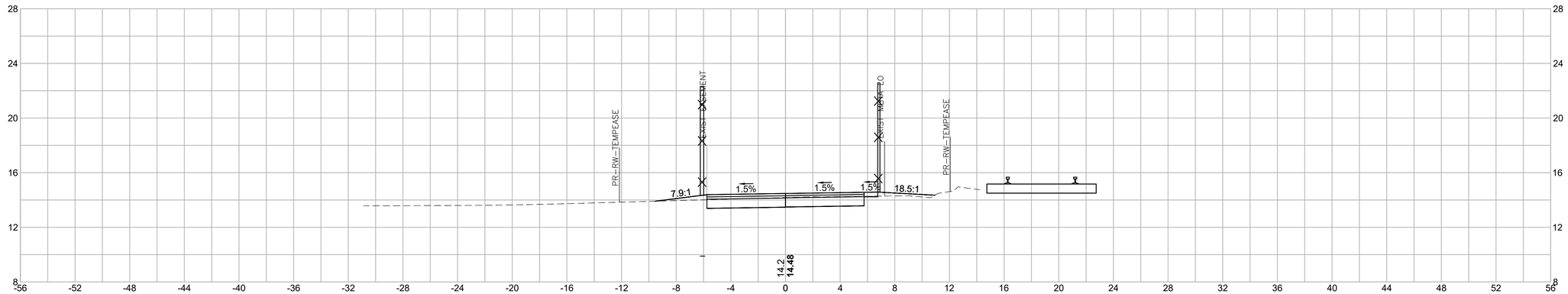
EXCAVATION: 85
EMBANKMENT:0

955+50



EXCAVATION: 17
EMBANKMENT:0

955+00



EXCAVATION: 10
EMBANKMENT:1

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

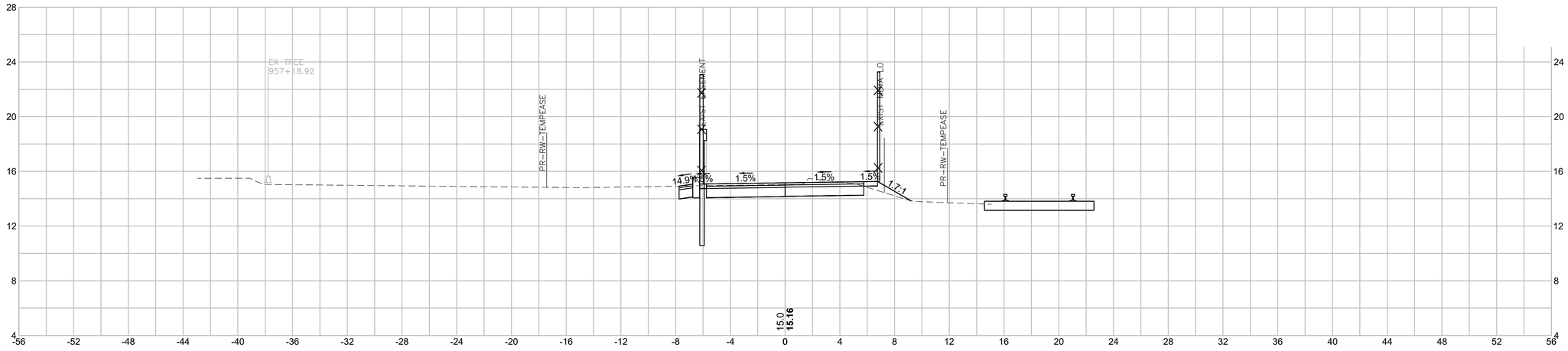
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:23 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:23 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	187	199
PROJECT FILE NO.	609204		

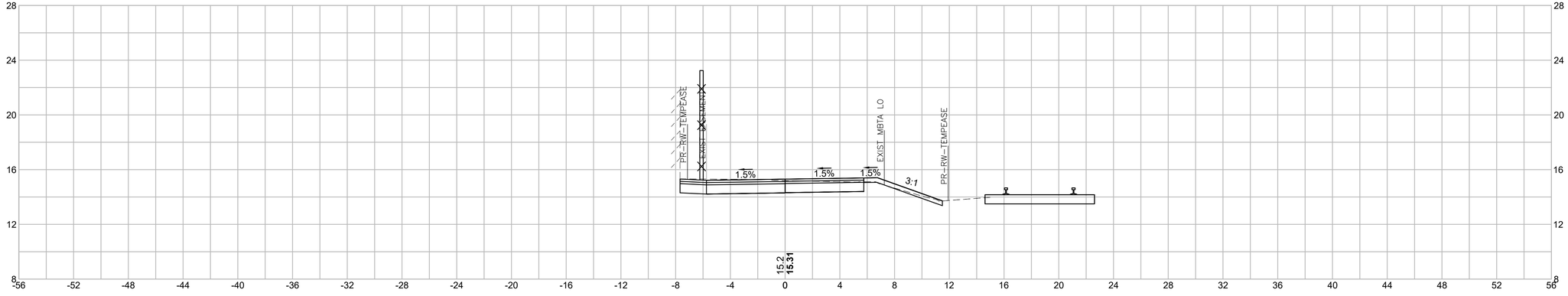
CROSS SECTIONS

957+00



EXCAVATION: 13
EMBANKMENT:1

956+50



EXCAVATION: 88
EMBANKMENT:0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:23 AM

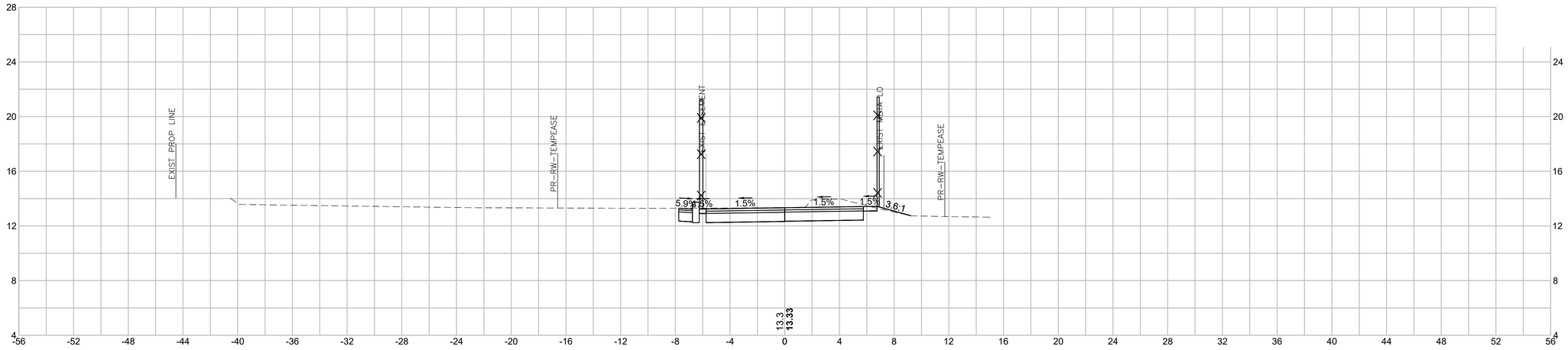
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:23 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	188	199
PROJECT FILE NO.	609204		

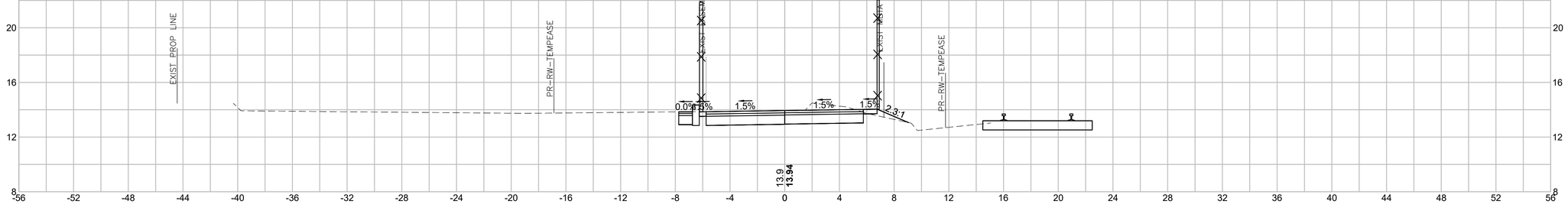
CROSS SECTIONS

958+50



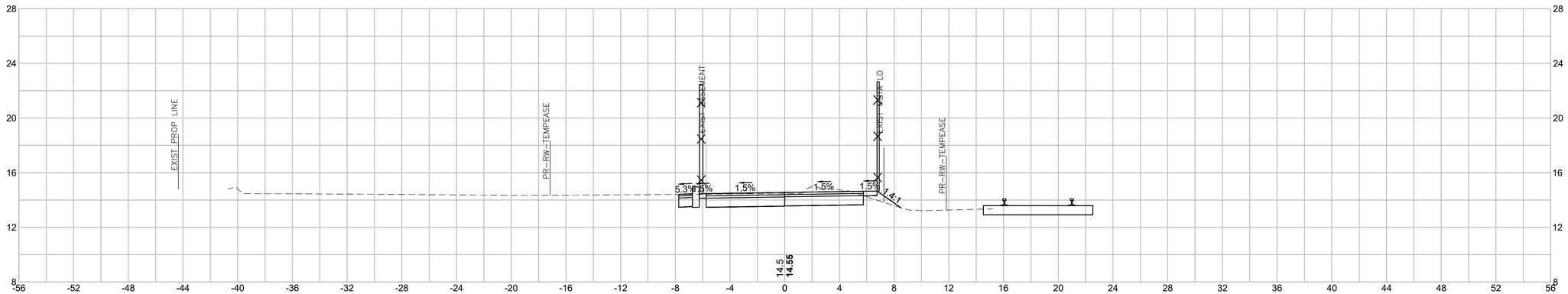
EXCAVATION: 17
EMBANKMENT:0

958+00



EXCAVATION: 15
EMBANKMENT:1

957+50



EXCAVATION: 14
EMBANKMENT:1

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:23 AM

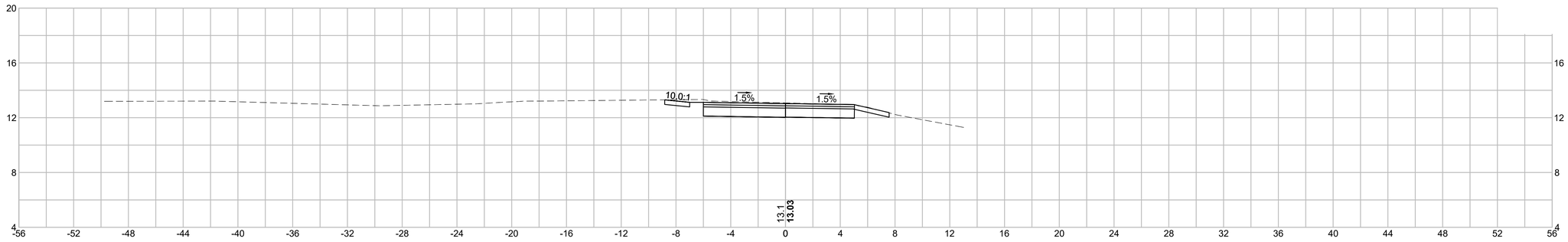
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:23 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	189	199
PROJECT FILE NO.	609204		

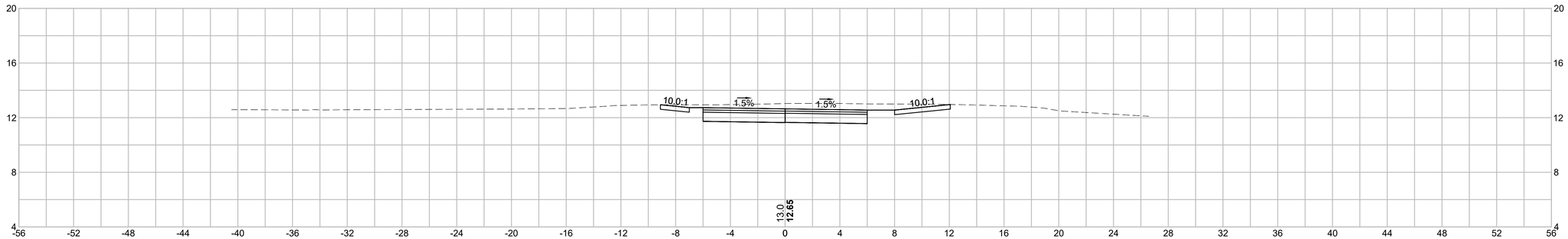
CROSS SECTIONS

960+50



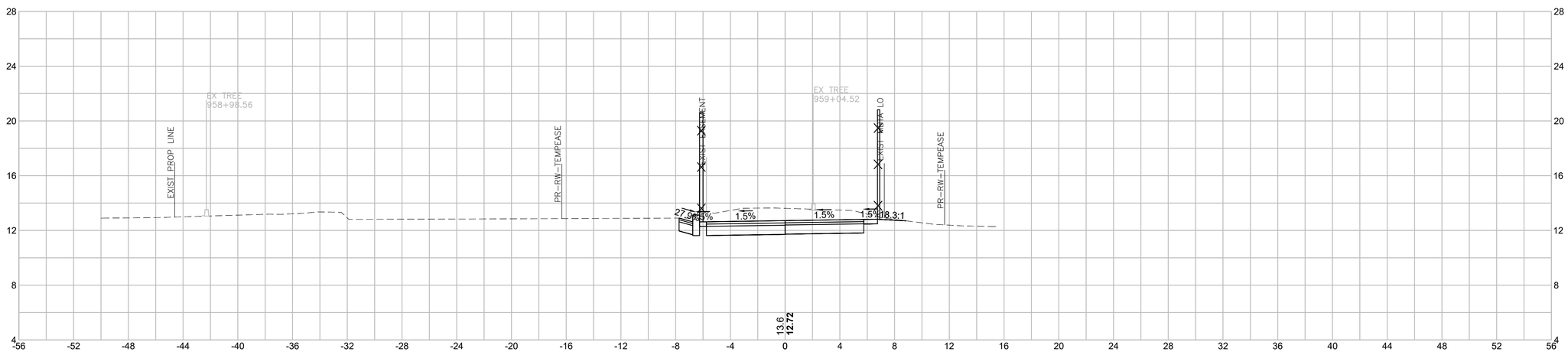
EXCAVATION: 14
EMBANKMENT: 0

960+00



EXCAVATION: 22
EMBANKMENT: 0

959+00



EXCAVATION: 25
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

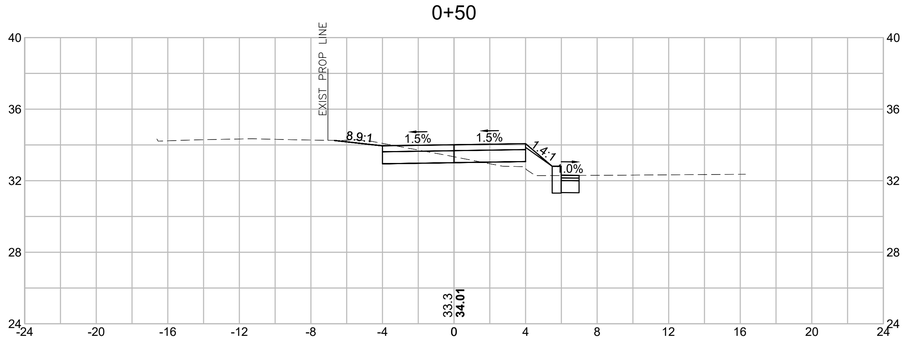
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:24 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:24 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	190	199
PROJECT FILE NO.	609204		

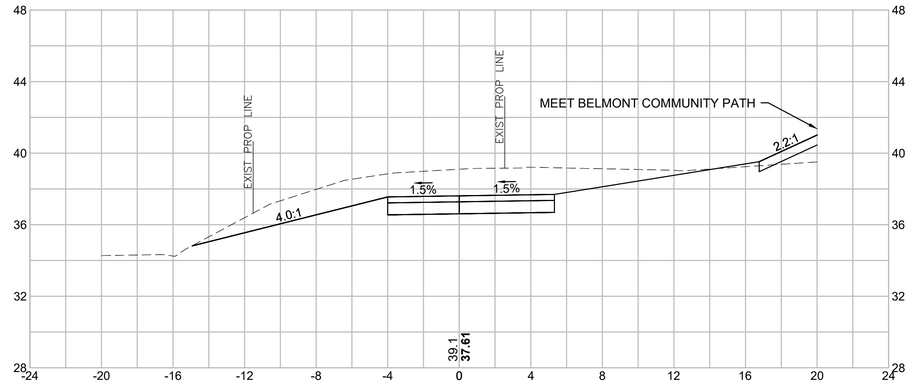
CROSS SECTIONS

0+50



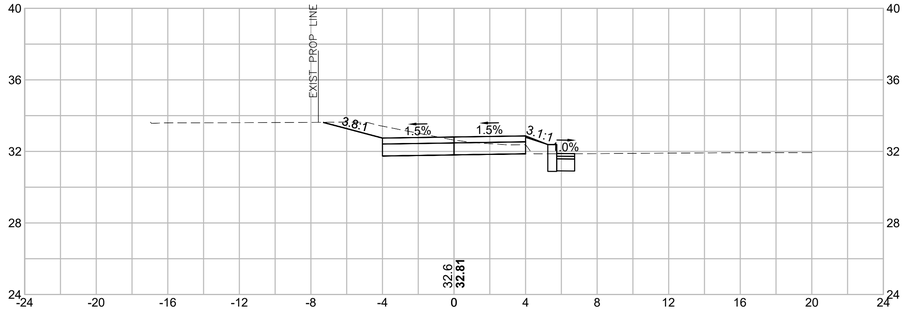
EXCAVATION: 5
EMBANKMENT: 2

1+25



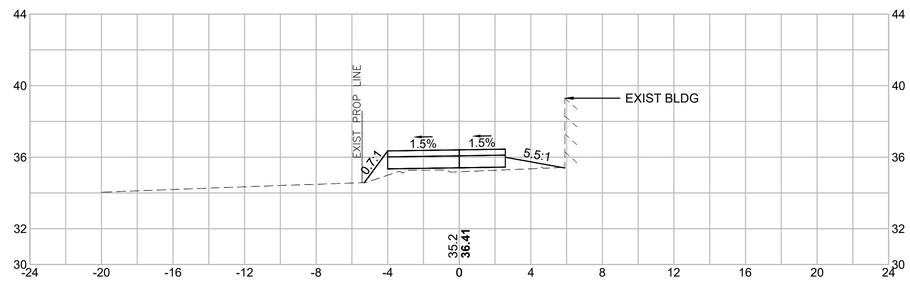
EXCAVATION: 38
EMBANKMENT: 16

0+25



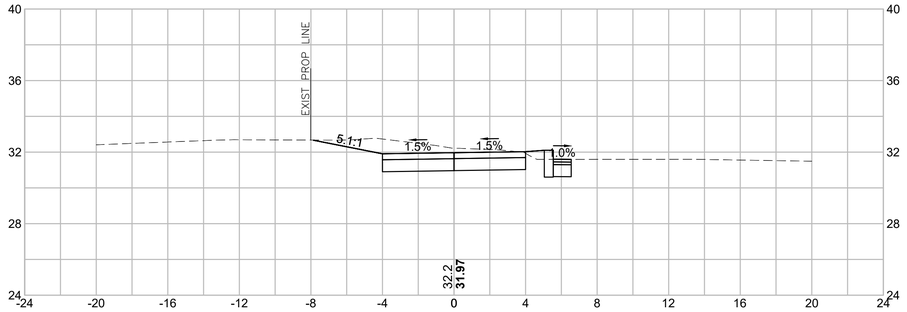
EXCAVATION: 10
EMBANKMENT: 1

1+00



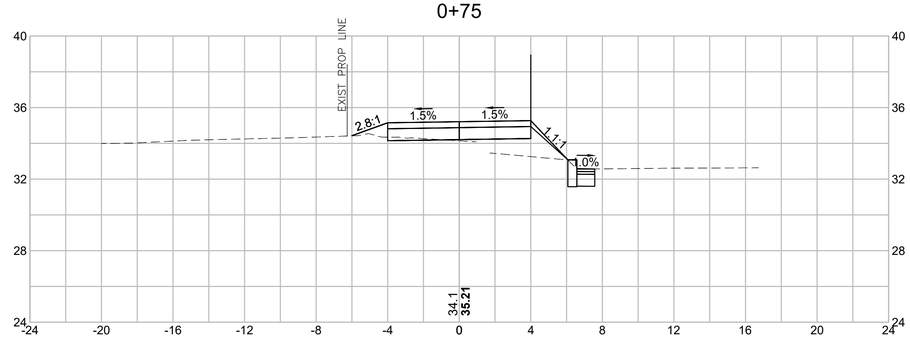
EXCAVATION: 0
EMBANKMENT: 3

0+05



EXCAVATION: 14
EMBANKMENT: 0

0+75



EXCAVATION: 2
EMBANKMENT: 5

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

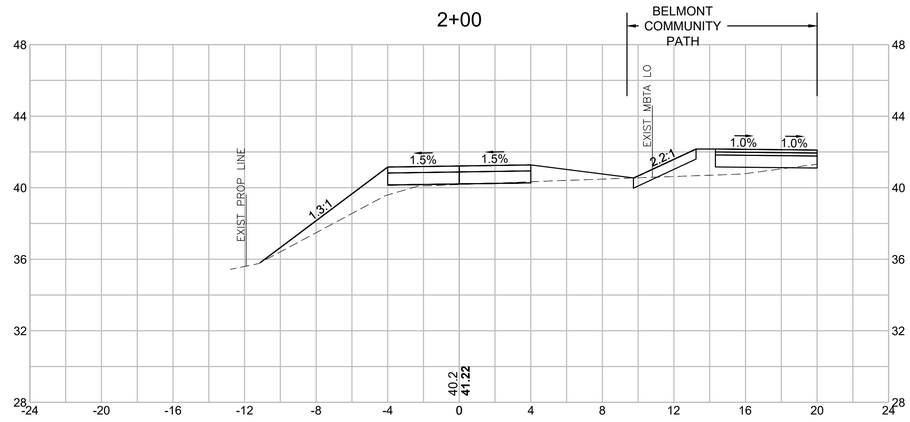
Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:24 AM

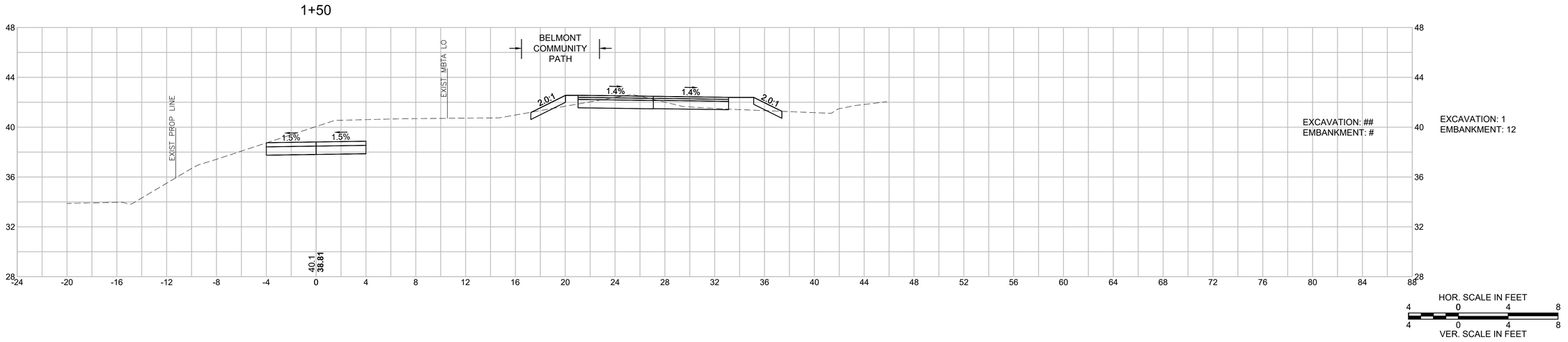
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:24 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	191	199
PROJECT FILE NO.	609204		

CROSS SECTIONS





Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:24 AM

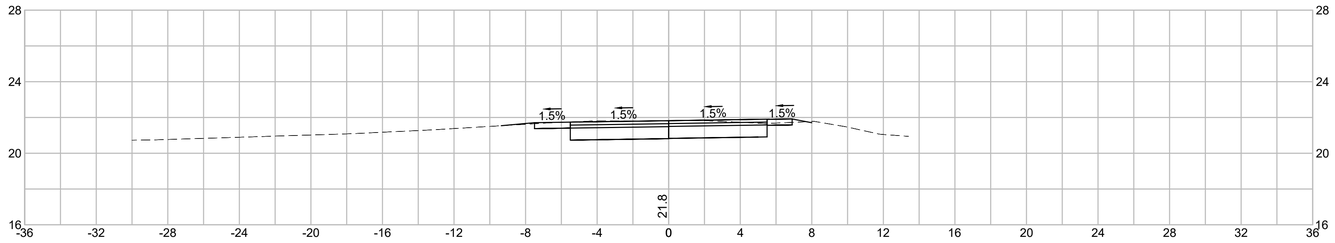
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:24 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	192	199
PROJECT FILE NO.	609204		

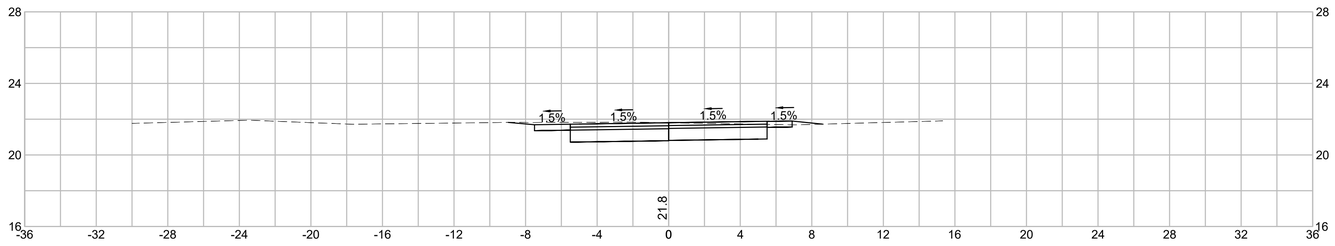
CROSS SECTIONS

501+00



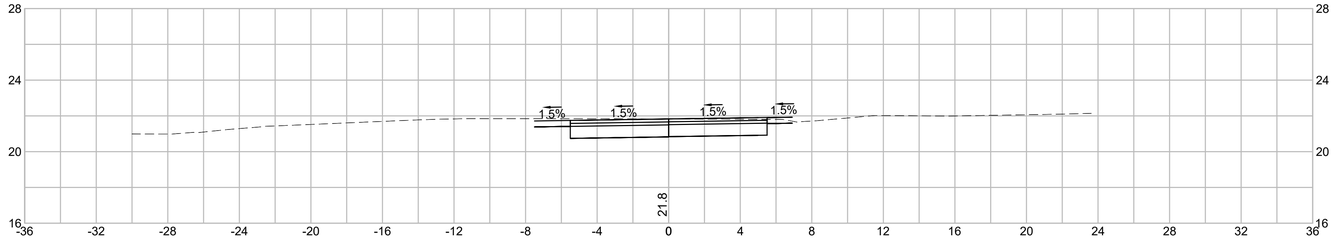
EXCAVATION: 95
EMBANKMENT: 0

500+50



EXCAVATION: 56
EMBANKMENT: 0

500+25



EXCAVATION: 36
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:25 AM

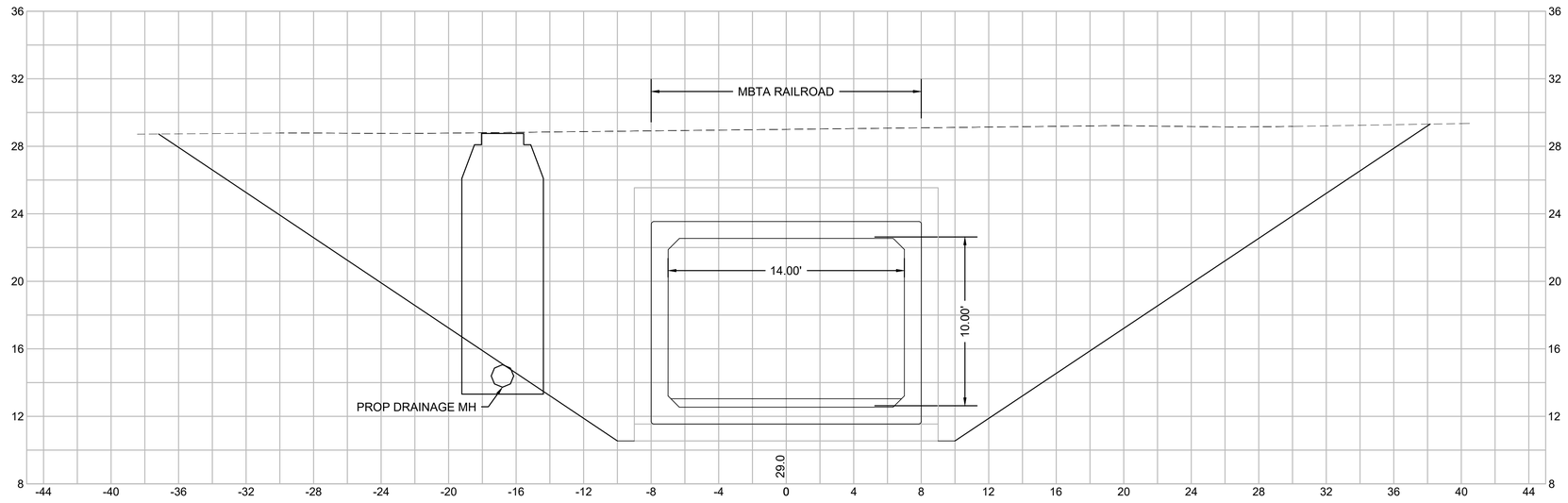
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:25 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	193	199
PROJECT FILE NO.	609204		

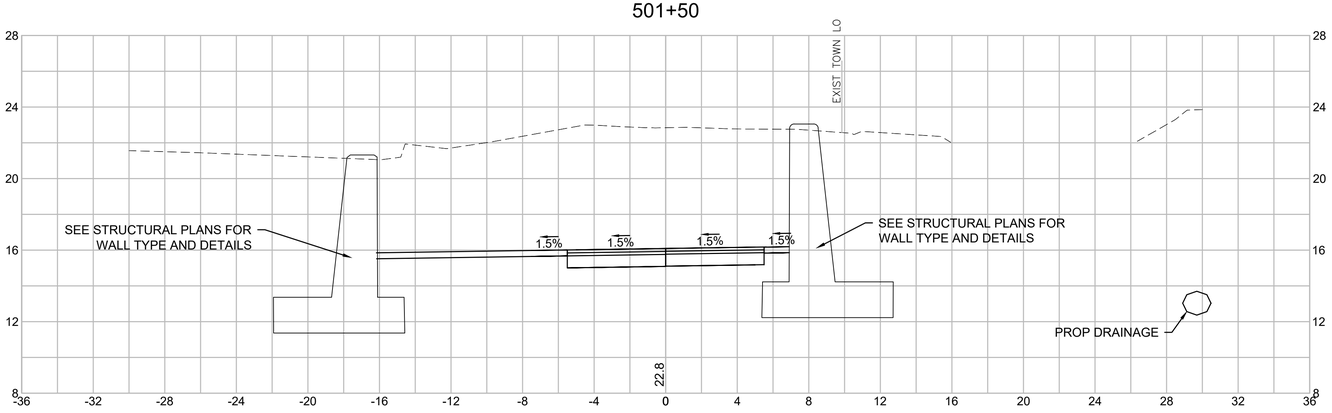
CROSS SECTIONS

502+50



EXCAVATION: 197
EMBANKMENT: 0

501+50



EXCAVATION: 225
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

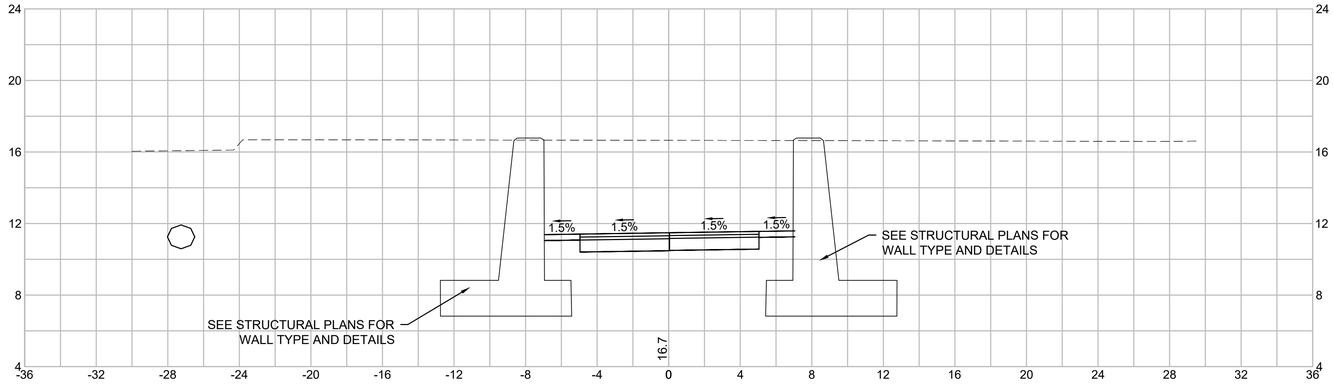
Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:25 AM
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:25 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

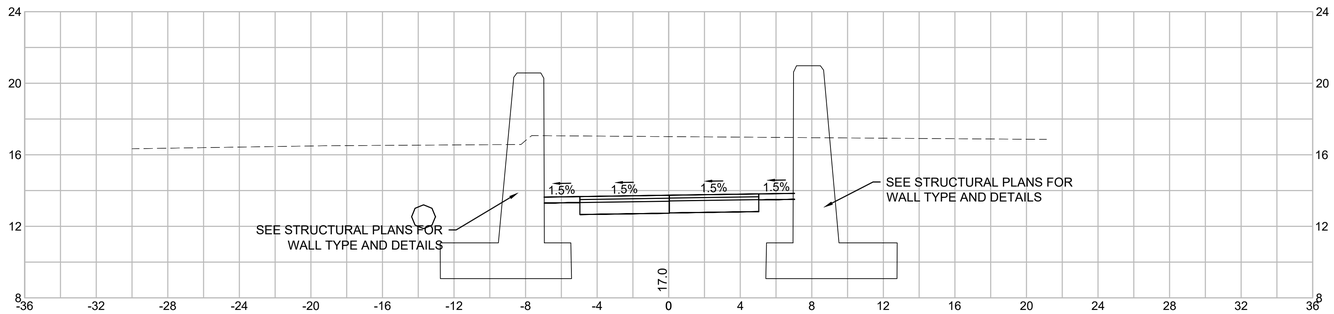
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	194	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

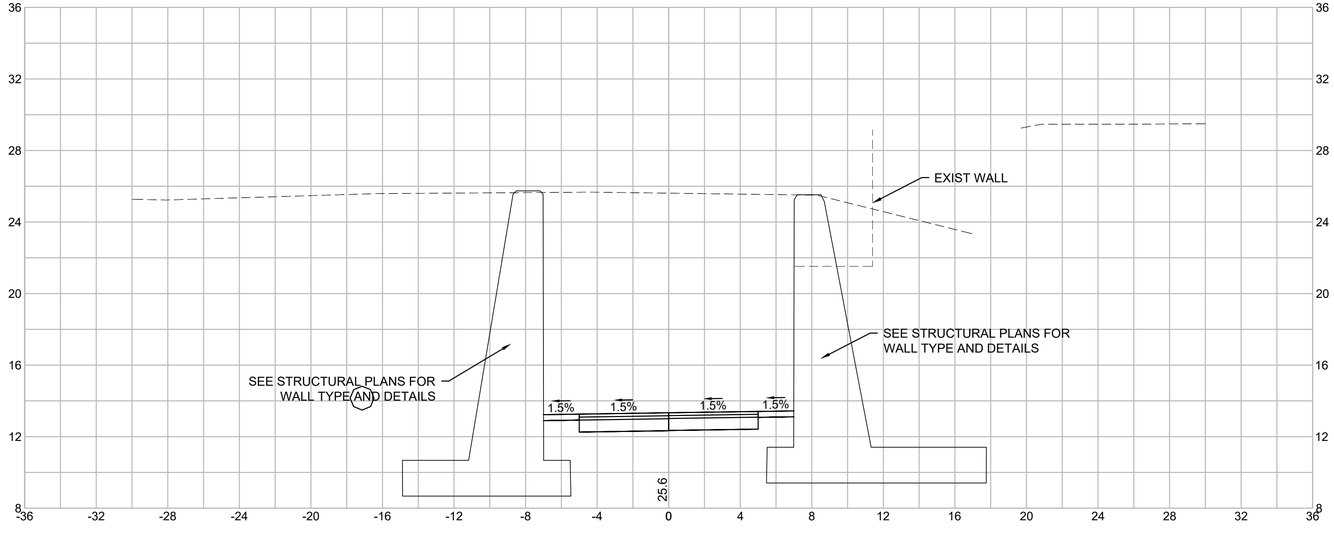
504+00



503+50



503+00



EXCAVATION: 285
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:25 AM

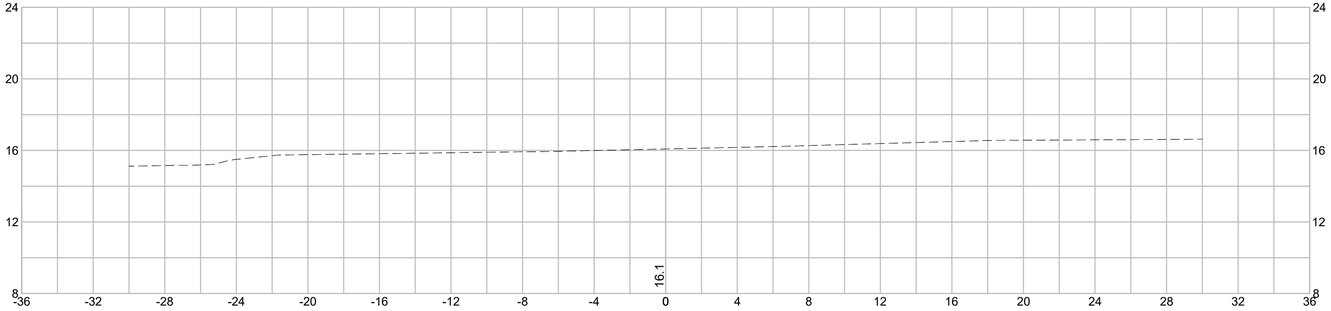
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:25 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

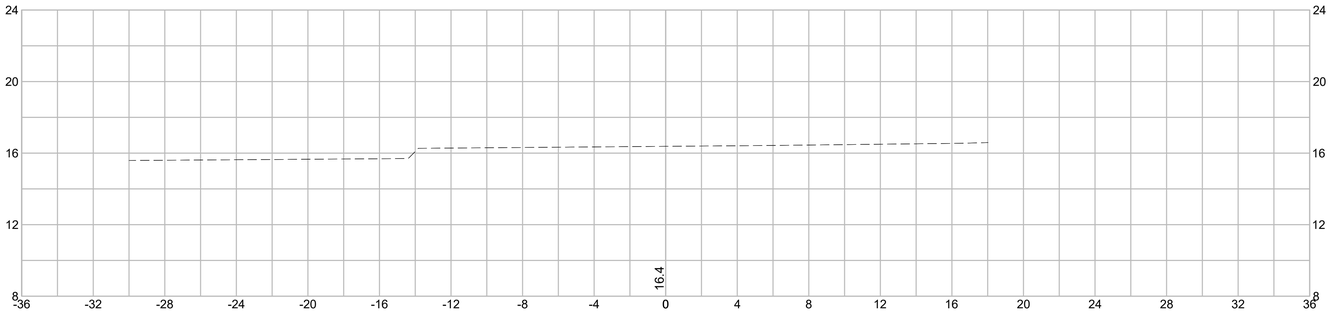
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	195	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

505+00



504+50



Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:26 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:26 AM

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:26 AM

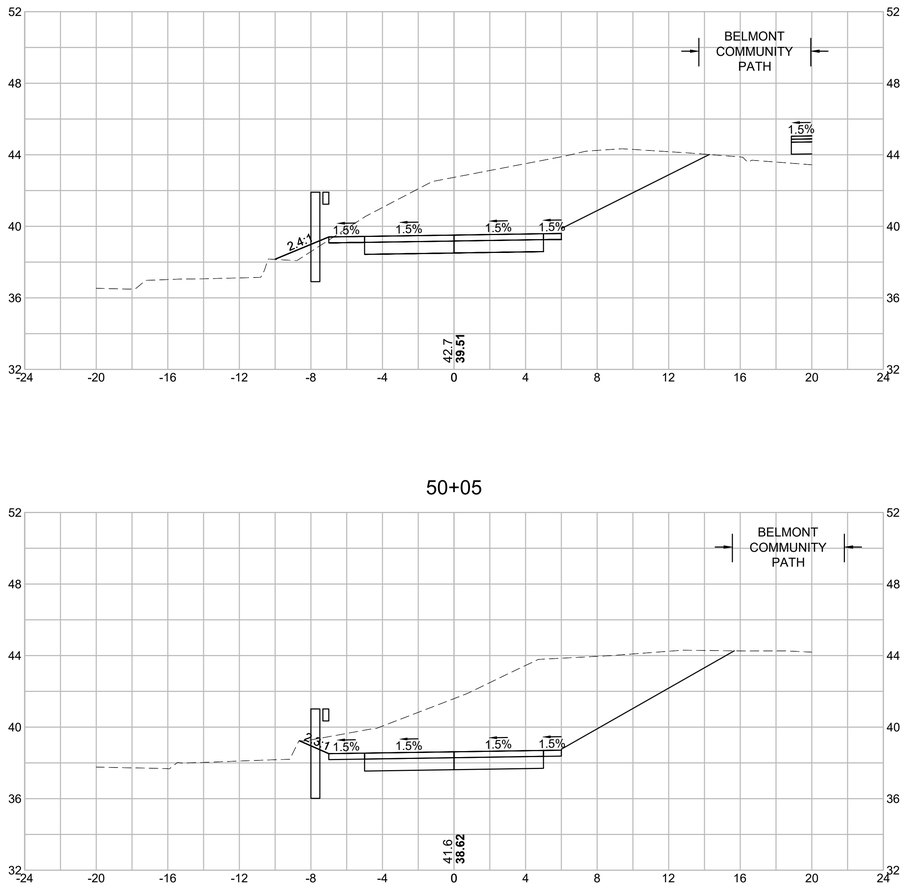
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:26 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	196	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

50+25

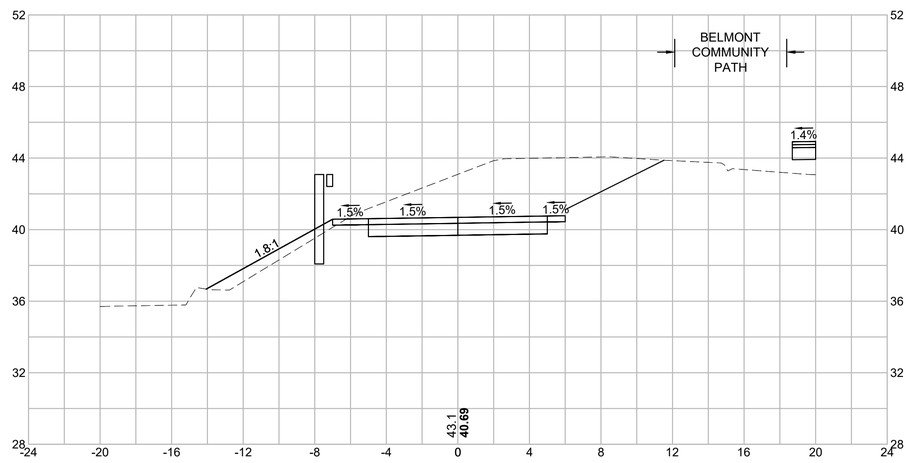


EXCAVATION: 59
EMBANKMENT: 7

50+05

EXCAVATION: 71
EMBANKMENT: 3

50+50



EXCAVATION: 42
EMBANKMENT: ##

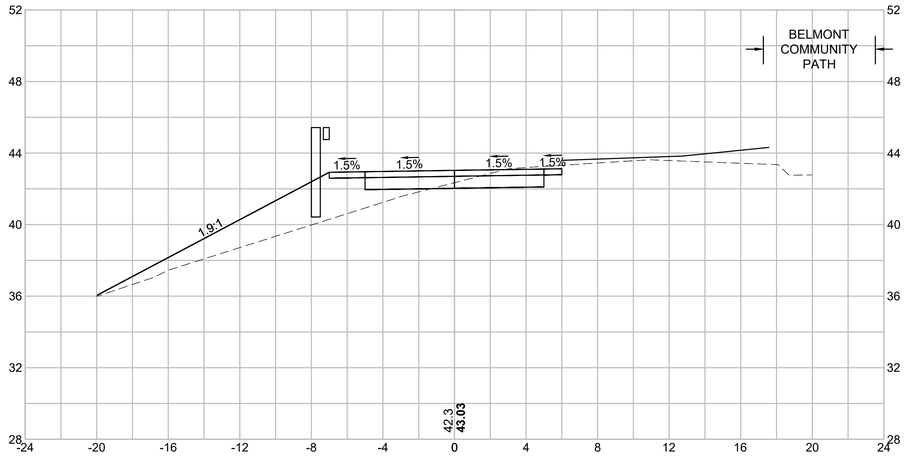
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	197	199
PROJECT FILE NO.	609204		

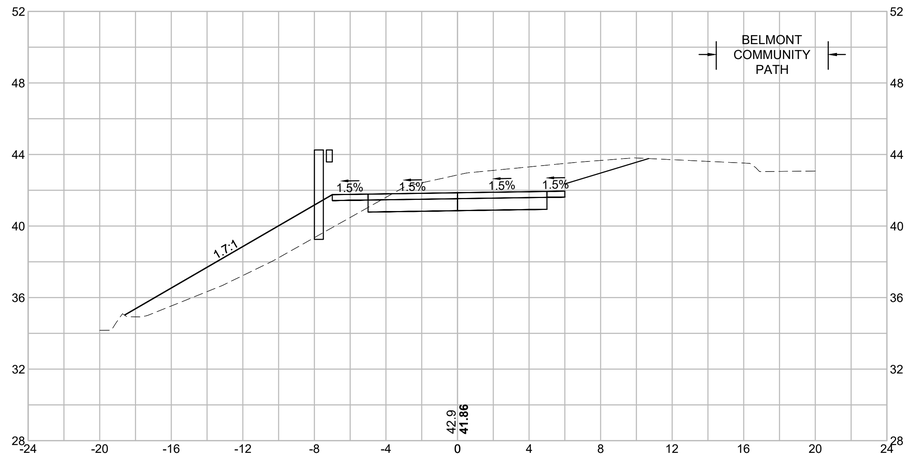
CROSS SECTIONS

51+00



EXCAVATION: 36
EMBANKMENT: 3

50+75



EXCAVATION: 20
EMBANKMENT: 28

HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:26 AM

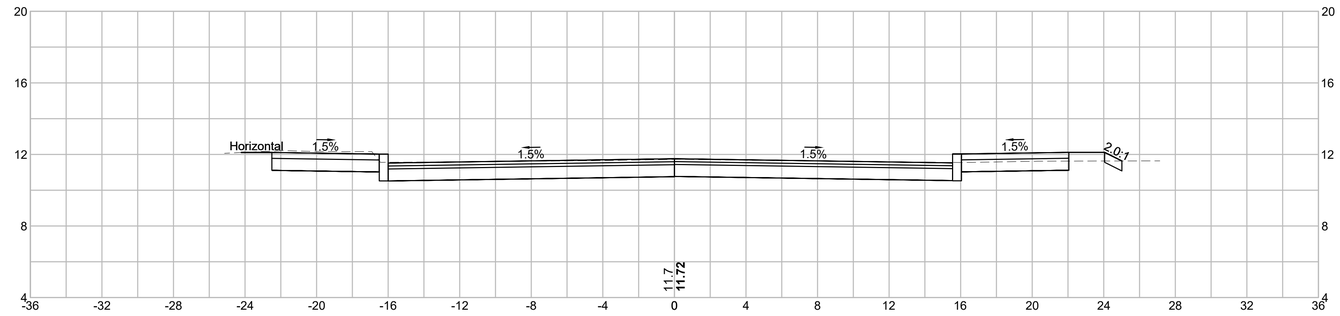
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:26 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

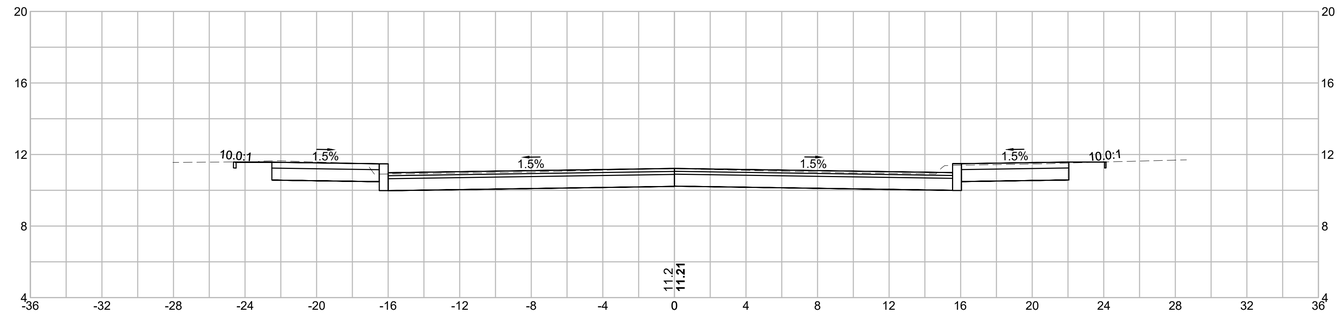
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	198	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

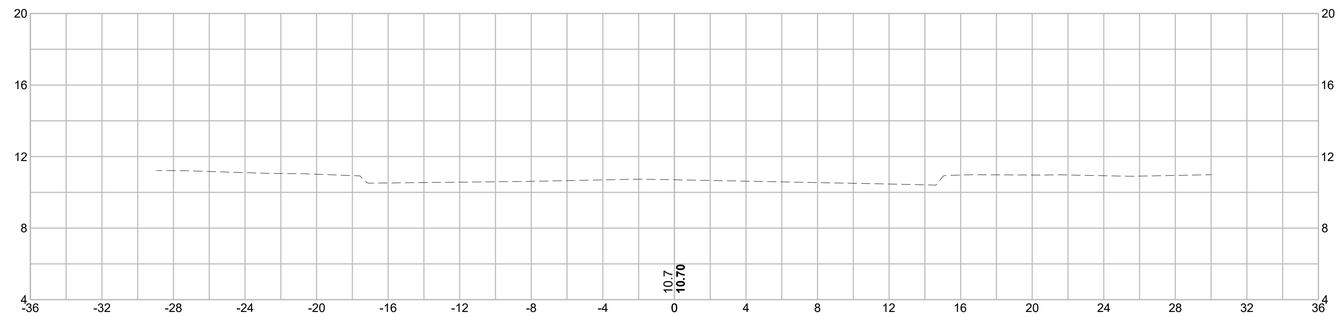
201+00



200+50



200+00



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 12/17/2025 12:27 AM

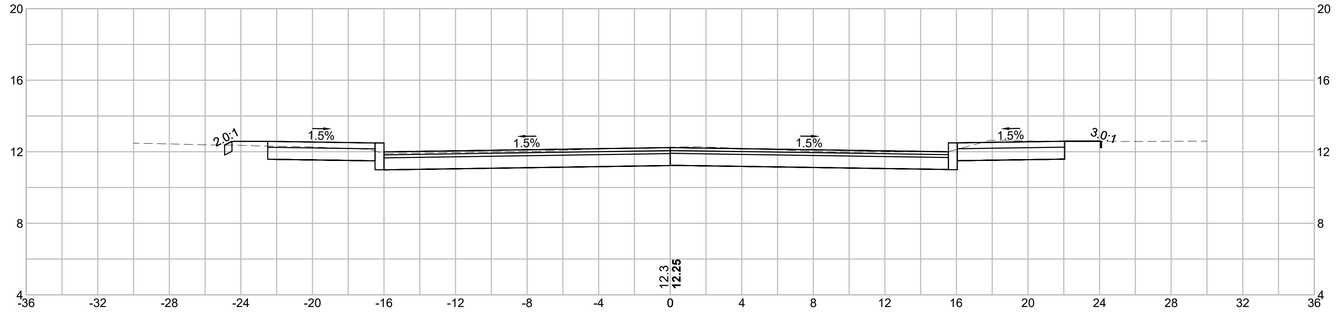
609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:27 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

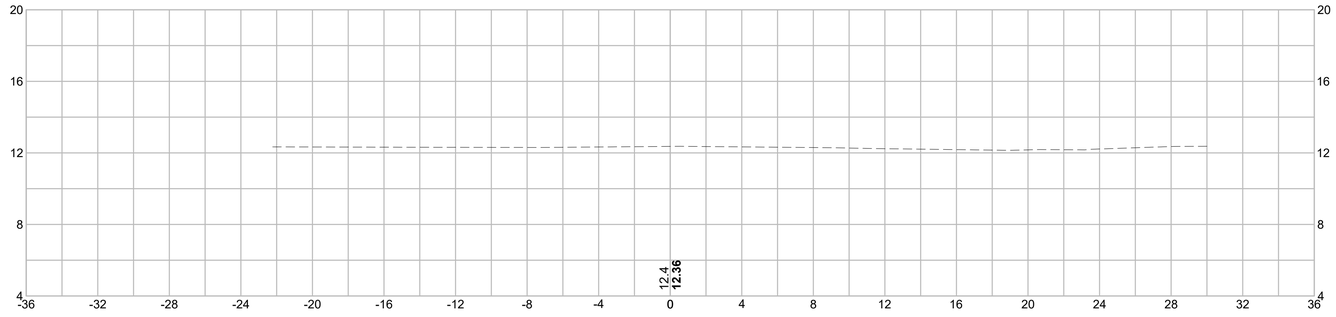
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	199	199
PROJECT FILE NO.	609204		

CROSS SECTIONS

202+00



201+50



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 12/17/2025 12:27 AM

609204_HD(XSECT-REV).DWG Plotted on Dec-25 12:27 AM